

FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS

WARRANWOOD ROAD, WARRANWOOD

BETWEEN LEENA COURT & PLYMOUTH ROAD



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.

DRAWING INDEX

SHEET No.	TITLE
1	TITLE SHEET - LOCALITY PLAN, DRAWING INDEX & NOTES
2	OVERALL PLAN
3	GENERAL LAYOUT PLAN
4	GENERAL LAYOUT PLAN
5	TYPICAL SECTIONS A-A, B-B & C-C
6	LONGITUDINAL SECTIONS - LIP OF KERB 'A' & FRONT OF FOOTPATH 'B'
7	CROSS-SECTIONS - LIP OF KERB 'A' - CH 0.000 TO CH 70.000
8	CROSS-SECTIONS - LIP OF KERB 'A' - CH 80.000 TO CH 160.000
9	CROSS-SECTIONS - LIP OF KERB 'A' - CH 170.000 TO CH 203.000
10	CROSS-SECTIONS - LIP OF KERB 'A' - CH 204.500 TO CH 246.605
11	CROSS-SECTIONS - LIP OF KERB 'A' - CH 250.000 TO CH 260.490
12	DRAINAGE LONGITUDINAL SECTIONS
13	DRAINAGE PIT SCHEDULE

SITE

- PLASTIC MESH FENCING (BARRIER MESH) MUST BE USED TO PROTECT WORKSITE AND ALL APPROPRIATE SIGNS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
- THE CONTRACTOR IS TO NOTIFY ALL RESIDENTS BY LETTER REGARDING ACCESS RESTRICTIONS TO THEIR PROPERTIES (AT LEAST 24HRS IN ADVANCE).
- IT IS THE CONTRACTORS RESPONSIBILITY TO TRANSFER ANY TBM'S THAT MAY BE AFFECTED BY THE WORKS PRIOR TO THEIR REMOVAL.
- SETOUT DIMENSIONING AND RADII ARE FROM LIP OF KERB UNLESS OTHERWISE SHOWN.

EARTHWORKS

- THE CONTRACTOR IS TO VERIFY ALL LEVELS WITH THE SUPERVISING ENGINEER PRIOR TO COMMENCING ANY PAVEMENT WORKS.
- ALL DISTURBED AREAS OUTSIDE THE WORKS ARE TO BE REINSTATED TO THE SATISFACTION OF COUNCIL.
- REMOVAL OF VEGETATION OR TRIMMING OF TREES IS TO BE DONE UNDER COUNCIL DIRECTION.
- NO TREE ROOTS GREATER THAN 40mm ARE TO BE CUT BY THE CONTRACTOR. THE CONTRACTOR IS TO OBTAIN APPROVAL FROM THE SUPERVISING ENGINEER TO REMOVE TREE ROOTS GREATER THAN 40mm.
- THE CONTRACTOR SHALL NOT CAUSE ANY DAMAGE TO TREE BRANCHES OR TREE TRUNKS.
- BACKFILL ALL TRENCHES BENEATH ROAD PAVEMENT AND VEHICLE CROSSINGS WITH CLASS 2 F.C.C.

DRAINAGE

- ALL DRAINAGE WORKS TO BE TO AS3500
- ALL DRAINAGE PIPES TO BE LAID TRUE TO LINE AND GRADE ON MIN 100mm OF 20mm CLASS 2 CRUSHED CONCRETE BEDDING.
- ALL REINFORCED CONCRETE DRAINAGE PIPES TO BE RUBBER RING JOINTED AND CLASS 4, UNLESS SPECIFIED OTHERWISE.
- ALL UPVC PIPES SHALL BE SEWER CLASS SN8 EXTRA HEAVY DUTY, SOLVENT WELDED UNLESS SPECIFIED OTHERWISE.
- ALL PITS 1.0m DEPTH AND OVER TO BE FITTED WITH STEP IRONS.
- ALL PITS TO HAVE FORMED BASES TO ALLOW SMOOTH FLOWS THROUGH PITS.
- ALL DRAINAGE TRENCHES IN ROADWAY TO BE BACKFILLED WITH 20mm CLASS 2 CRUSHED CONCRETE WITH THE TOP 150mm CLASS 2 FINE CRUSHED ROCK.

SERVICING

- THE LOCATION OF ALL EXISTING SERVICES IS BASED ON INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL SERVICES BEFORE COMMENCING WORKS AND PROTECT THE SAME FOR THE DURATION OF THE WORKS.
- BACKFILL ALL TRENCHES BENEATH ROAD PAVEMENT AND VEHICLE CROSSINGS WITH CLASS 2 CRUSHED CONCRETE
- "NO GO ZONES" TO BE ADHERED TO FOR ALL EXISTING SERVICES WHEN WORKING AROUND OR UNDER THEM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE RELEVANT SERVICE PROVIDER AS TO CLEARANCES.

MISCELLANEOUS

- THE LOCATION OF ALL EXISTING SIGNS ARE TO BE RECORDED PRIOR TO THE COMMENCEMENT OF WORKS AND ANY REMOVED TO MAKE WAY FOR THE WORKS ARE TO BE REINSTATED TO ORIGINAL POSITION OR TO A LOCATION AS DIRECTED BY SUPERVISING ENGINEER.
- ALL LINE MARKING IS TO BE REINSTATED IN ORIGINAL POSITION WHERE DISTURBED OR REMOVED BY CONCRETE PAVEMENT AND OR ASPHALT REPLACEMENT UNLESS OTHERWISE SHOWN.
- REMOVE EXIST. VEHICLE CROSSINGS RAMPS AND RECONSTRUCT TO COUNCIL STANDARDS AND DETAILS SHOWN
- ALL EXISTING HOUSE DRAINS SHALL BE RECONNECTED TO THE UNDERGROUND DRAINAGE SYSTEM UNLESS SHOWN OTHERWISE OR DIRECTED BY THE SUPERVISING ENGINEER IN ACCORDANCE WITH STANDARD - S121 AT A MINIMUM GRADE OF 1:100. INSPECTION OPENING TO BE PLACED OUTSIDE CONCRETE PATH UNLESS OTHERWISE SPECIFIED. NOT ALL HOUSE WATER DRAINS MAY BE SHOWN, CONTRACTOR TO CHECK DURING CONSTRUCTION AND CONNECT IN ACCORDANCE TO COUNCIL REQUIREMENTS.

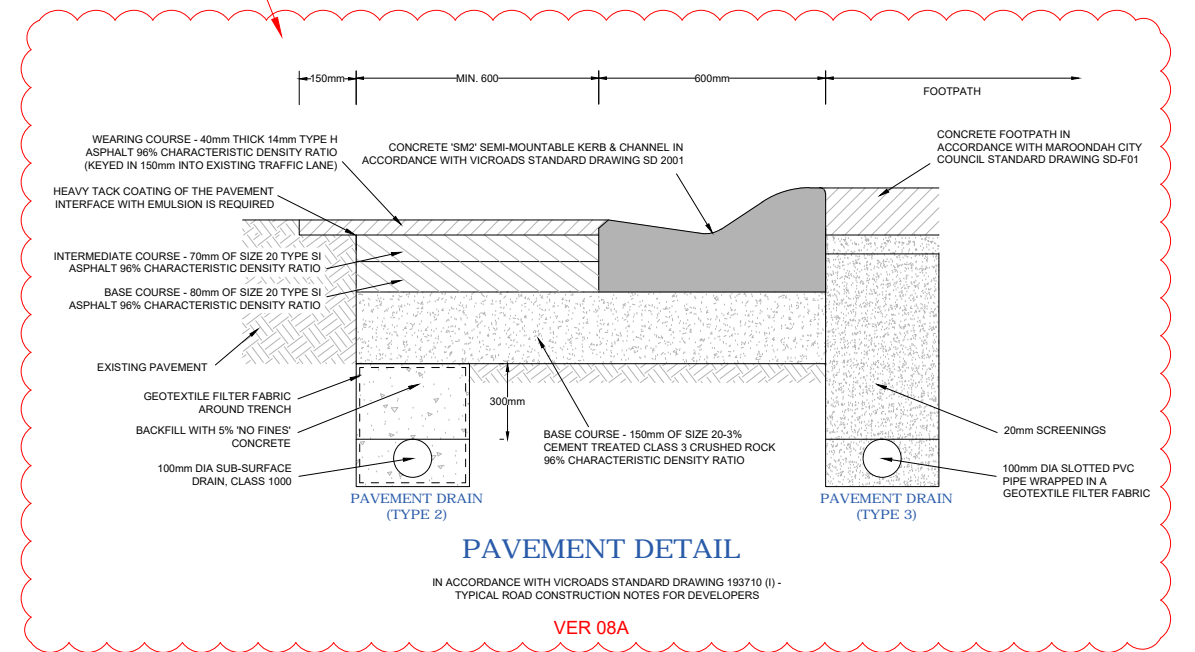
GENERAL NOTES

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND DEPTHS PRIOR TO THE COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL ADVISE THE SUPERINTENDENT OF ANY REQUIRED ALTERATIONS.
- ALL WORK PRACTICES SHALL COMPLY WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND ALL RELEVANT REGULATIONS AND CODES OF PRACTICE (IN PARTICULAR, THE CODE OF PRACTICE FOR SAFETY PRECAUTIONS IN TRENCHING OPERATIONS).
- WORKSAFE VICTORIA IS TO BE INFORMED FOR TRENCHING OPERATIONS WHERE THE DEPTH IS GREATER THAN 1.5M.
- THE CONTRACTOR SHALL STRICTLY COMPLY WITH "NO GO ZONE" CLEARANCE REQUIREMENTS WHEN WORKING WITHIN THE VICINITY OF OVERHEAD ELECTRICAL ASSETS/CABLES. FOR ANY OPERATION WHICH ENCLOSES ON THE 3.0M "NO GO ZONE", THE CONTRACTOR SHALL OBTAIN A WRITTEN PERMIT TO WORK FROM WORKSAFE. FOR FURTHER INFORMATION ON "NO GO ZONE" CLEARANCE REQUIREMENTS, REFER TO CURRENT WORKSAFE VICTORIA PUBLICATIONS (WWW.WORKSAFE.VIC.GOV.AU)
- ALL CONCRETE SHALL BE SAWCUT TO THE NEAREST JOINT UNLESS SPECIFIED OTHERWISE.
- ALL SERVICE COVERS WITHIN THE LIMIT OF WORKS SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED SURFACE LEVELS.
- NO TREES SHALL BE REMOVED UNLESS AUTHORISED BY MAROONDAH CITY COUNCIL.
- ALL DISTURBED AREAS SHALL BE TOPSOILED AND SEEDED TO A MINIMUM DEPTH OF 100mm. NATURE STRIPS SHALL BE GRADED EVENLY FROM THE TOP OF KERB TO THE FRONT OF PATH OR AS DIRECTED.
- SITE EROSION CONTROL AND MINIMISATION MEASURES SHALL BE ADOPTED AT ALL TIMES IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AUTHORITY'S ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES.
- TRAFFIC MANAGEMENT IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE ROAD MANAGEMENT ACT 2004 AND AS1742.3. ALL SIGNAGE (TEMPORARY AND PERMANENT) SHALL BE CLASS 1 REFLECTIVE GRADE.
- AN APPROVED COPY OF PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON SITE AT ALL TIMES DURING CONSTRUCTION.
- ALL CONCRETE TO HAVE COMPRESSIVE STRENGTH AT 28 DAYS NOT LESS THAN 25 MPa.
- ALL LINEMARKING TO BE IN ACCORDANCE WITH AS1742.1 AND TO BE LONG LIFE THERMOPLASTIC IN ACCORDANCE WITH VICROADS SECTION 724.

SEDIMENT CONTROL

- CONTRACTORS SHALL ENSURE THAT ALL WORKS COMPLY WITH THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL"-EPA PUBLICATION NO. 175.
- CONTRACTORS SHALL INSTALL MEASURES TO ENSURE ANY SEDIMENT OR LITTER GENERATED AS A RESULT OF THE WORKS IS CONTAINED ON THE SITE. THESE MEASURES SHALL INCLUDE DEVICES SUCH AS SILT FENCES WHICH ARE TO BE LOCATED AT ALL SOURCES OF SEDIMENT SUCH AS EARTHWORKS STOCKPILED, ENDS OF ROAD EXCAVATION, DRAINAGE OUTLETS ETC.
- CONTRACTORS SHALL ENSURE THAT VEHICLES ASSOCIATED WITH THE WORKS DO NOT DEPOSIT DIRT OR RUBBISH ONTO ROADS. ANY MATERIAL DEPOSITED SHALL BE PROMPTLY CLEANED UP WITHOUT CONTAMINATING ANY WATERWAY.
- THE CONTRACTORS SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SEDIMENT AND LITTER CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT AND THE CONTRACT MAINTENANCE PERIOD.

VER 08A: PAVEMENT DETAIL CHANGED FROM VER 08



VER	DESCRIPTION	DATE
08B	DETAILED DESIGN - FOR REVIEW	03-08-2021
08A	DETAILED DESIGN - FOR REVIEW	01-07-2021
08	DETAILED DESIGN - FOR REVIEW	22-02-2021
07	DETAILED DESIGN - FOR REVIEW	15-02-2021
06	DETAILED DESIGN	16-10-2020
05	DRAFT DETAILED DESIGN	31-07-2020
04	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	25-03-2019
03	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	05-03-2019
02	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	07-02-2019

DATE	DESCRIPTION
03-08-2021	CONSULTANT ENGINEER

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 Specialist Civil Engineering Design Consultants
 Commitment | Communication | Collaboration

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ENGINEERING DESIGN
 LUKE WHITFIELD
 ENGINEERING REVIEW
 CHRIS PROCTOR

ORIENTATION

 OR AS SHOWN

LOCAL GOVERNMENT AREA
MAROONDAH CITY COUNCIL

ORIGINAL SCALE
 AS SHOWN

ORIGINAL SHEET SIZE
 A1

HEIGHT DATUM
 AHD

COORDINATE DATUM
 MGA84 ZONE 55

CLIENT

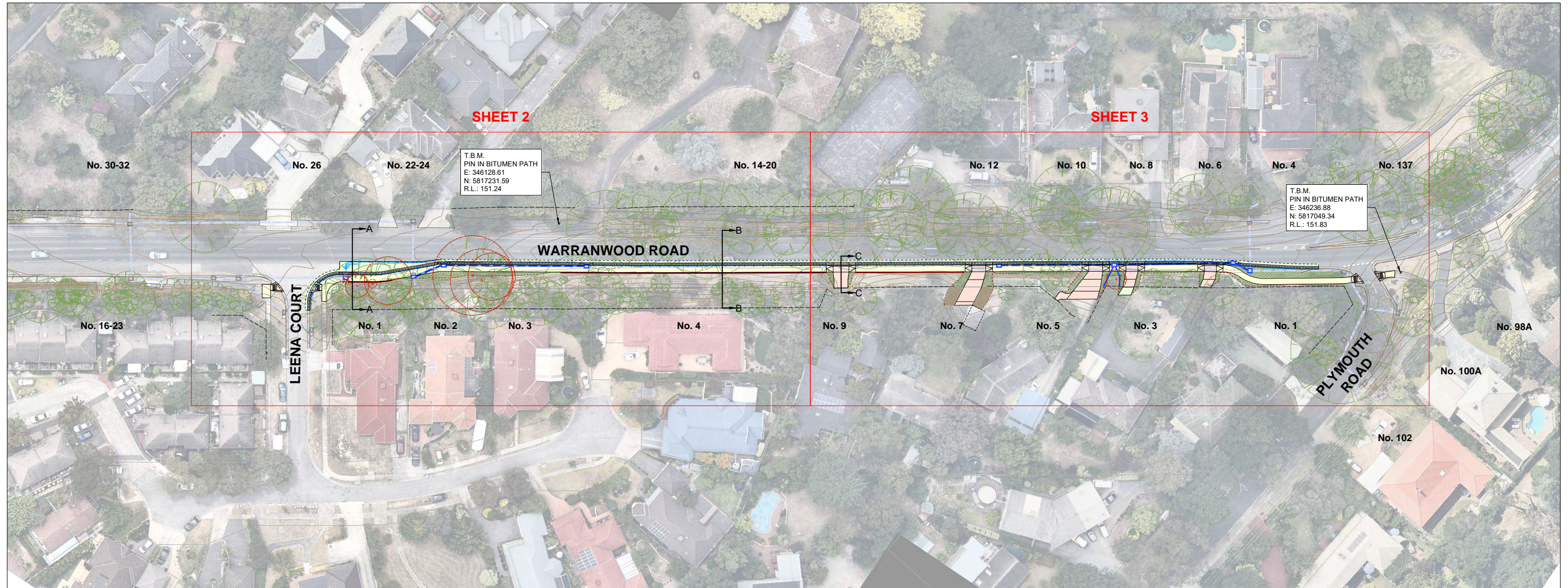
 CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON

DETAILED DESIGN
FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS
WARRANWOOD ROAD, WARRANWOOD
 BETWEEN LEENA COURT & PLYMOUTH ROAD
 TITLE SHEET - LOCALITY PLAN, DRAWING INDEX & NOTES

PROJECT No.	PC18024
SHEET No.	01 OF 13
VER	08B
DWG No.	PC18024-01-08B

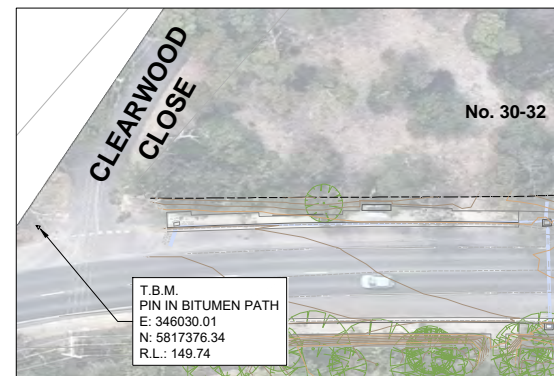


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CONTINUED IN INSERT BELOW

CONTINUED ABOVE



OVERALL PLAN
 10 5 0 10 20 1:500@ A1
 1:1,000@ A3

OVERALL PLAN - CLEARWOOD CL T.B.M.

10 5 0 10 20 1:500@ A1
 1:1,000@ A3

08B	03-08-2021	DETAILED DESIGN - FOR REVIEW
08A	01-07-2021	DETAILED DESIGN - FOR REVIEW
08	22-02-2021	DETAILED DESIGN - FOR REVIEW
07	15-02-2021	DETAILED DESIGN - FOR REVIEW
06	16-10-2020	DETAILED DESIGN
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03	05-03-2019	FUNCTIONAL DESIGN - ISSUED FOR REVIEW
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VER	DATE	DESCRIPTION

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FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS

WARRANWOOD ROAD, WARRANWOOD
 BETWEEN LEENA COURT & PLYMOUTH ROAD

OVERALL PLAN

PROJECT No.	PC18024
SHEET No.	02 OF 13
VER	08B
DWG No.	PC18024-02-08B

LEGEND

- 125mm THICK CONCRETE FOOTPATH IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401
- ASPHALT PAVEMENT IN ACCORDANCE WITH PAVEMENT DETAIL ON SHEET 1
- 150mm THICK CONCRETE VEHICLE CROSSING GENERALLY IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501
- CONCRETE PRAM CROSSING IN ACCORDANCE WITH VICROADS STANDARDS & SPECIFICATIONS (ROAD DESIGN NOTE 06-06)
- CONCRETE KERB & CHANNEL IN ACCORDANCE WITH VICROADS STANDARD DRAWING SD 2001
- EX W — EXISTING WATER
- EX G — EXISTING GAS
- EX S — EXISTING SEWER
- EX T — EXISTING TELECOMMUNICATIONS
- EX E — EXISTING UNDERGROUND ELECTRICITY
- 46 — EXISTING CONTOUR MAJOR (1.0m)
- — EXISTING CONTOUR MINOR (0.20m)
- NATURE STRIP REINSTATEMENT WITH MAROONDAH CITY COUNCIL APPROVED TOPSOIL AND SEED
- EXISTING DRAINAGE PIPE
- NEW DRAINAGE PIT WITH PIT NUMBER AND PIPE
- DIRECTION OF CHANNEL FLOW
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- PAVEMENT SAWCUT
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- SD — SUBSURFACE DRAINAGE
- TREE TO BE REMOVED
- 46 — FINISHED SURFACE CONTOUR MAJOR (1.0m)
- — FINISHED SURFACE CONTOUR MINOR (0.2m)
- — FILL BATTER EXTENT
- — CUT BATTER EXTENT

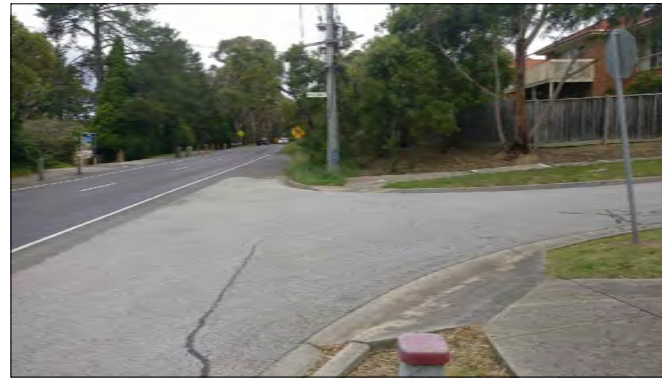


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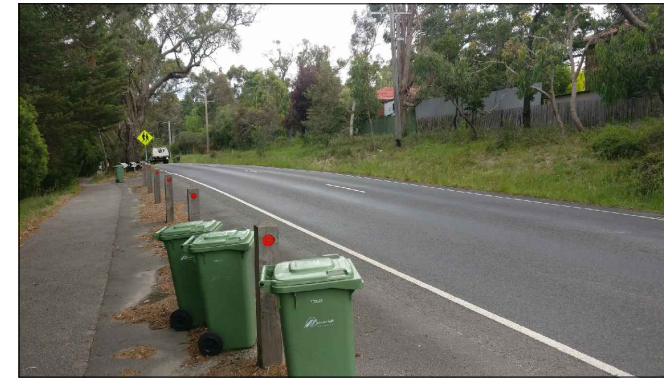


PHOTO 2

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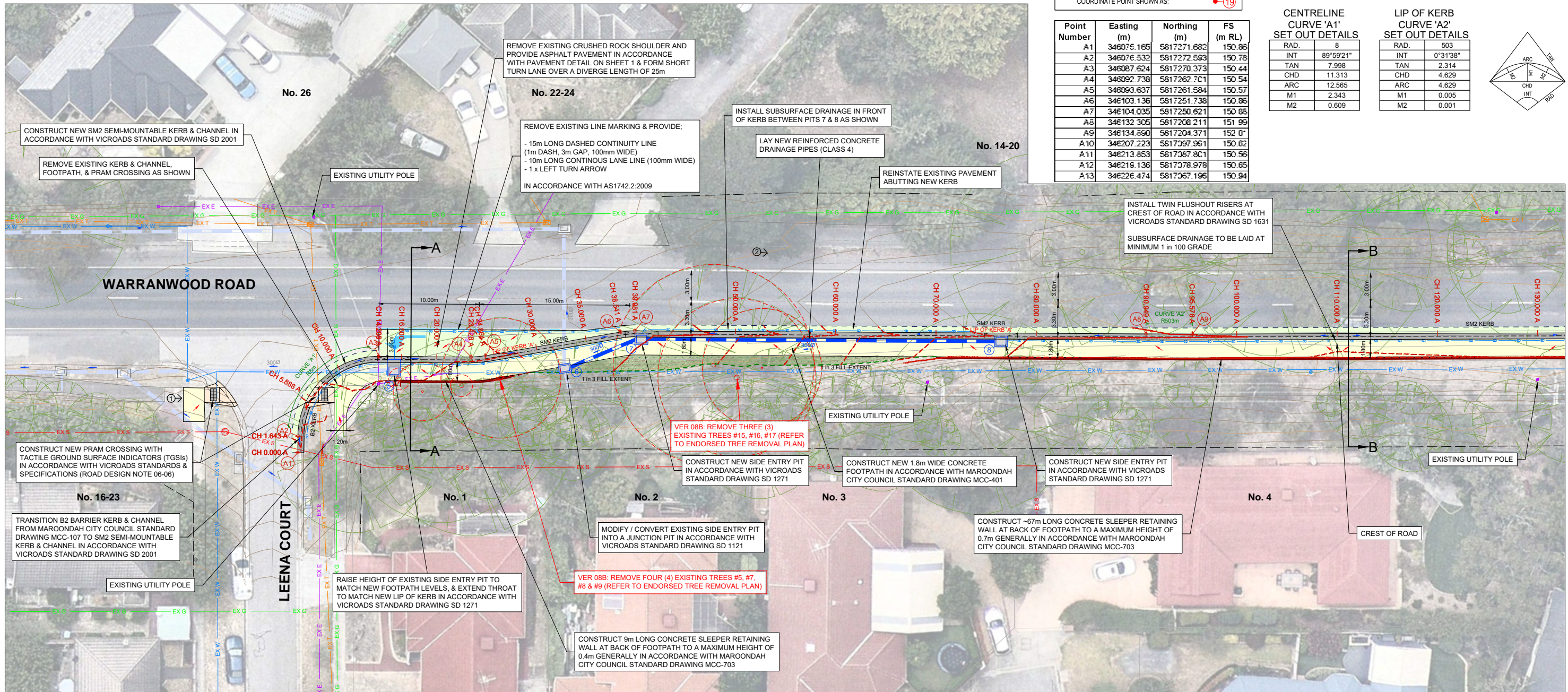
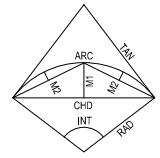
SURVEY COORDINATE SETOUT POINT TABLES

COORDINATE POINT SHOWN AS: ● 19

Point Number	Easting (m)	Northing (m)	FS (m RL)
A1	346075.165	5817271.682	150.86
A2	346076.532	5817272.583	150.76
A3	346087.624	5817270.373	150.44
A4	346092.738	5817262.701	150.54
A5	346093.637	5817261.584	150.57
A6	346103.136	5817251.738	150.86
A7	346104.035	5817250.621	150.85
A8	346132.305	5817208.211	151.99
A9	346134.890	5817204.371	152.07
A10	346207.223	5817097.961	150.62
A11	346213.853	5817087.801	150.56
A12	346219.136	5817078.978	150.65
A13	346226.474	5817067.196	150.94

SURVEY CURVE / ARC SETOUT DETAIL TABLES

CENTRELINE CURVE 'A1' SET OUT DETAILS		LIP OF KERB CURVE 'A2' SET OUT DETAILS	
RAD.	INT	RAD.	INT
8	89°59'21"	503	0°31'38"
TAN	7.998	TAN	2.314
CHD	11.313	CHD	4.629
ARC	12.565	ARC	4.629
M1	2.343	M1	0.005
M2	0.609	M2	0.001



GENERAL LAYOUT PLAN

1:200 @ A1
1:400 @ A3

VER	DESCRIPTION	DATE
08B	DETAILED DESIGN - FOR REVIEW	03-08-2021
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CLIENT
Maroondah City Council

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON

DETAILED DESIGN

FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS

WARRANWOOD ROAD, WARRANWOOD

BETWEEN LEENA COURT & PLYMOUTH ROAD

GENERAL LAYOUT PLAN

PROJECT No.	PC18024
SHEET No.	03 OF 13
VER	08B
BWG No.	PC18024-03-08B

CONTINUED ON SHEET 3

LEGEND

- 125mm THICK CONCRETE FOOTPATH IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401
- ASPHALT PAVEMENT IN ACCORDANCE WITH PAVEMENT DETAIL ON SHEET 1
- 150mm THICK CONCRETE VEHICLE CROSSING GENERALLY IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501
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- FILL BATTER EXTENT
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PHOTO 3



PHOTO 4

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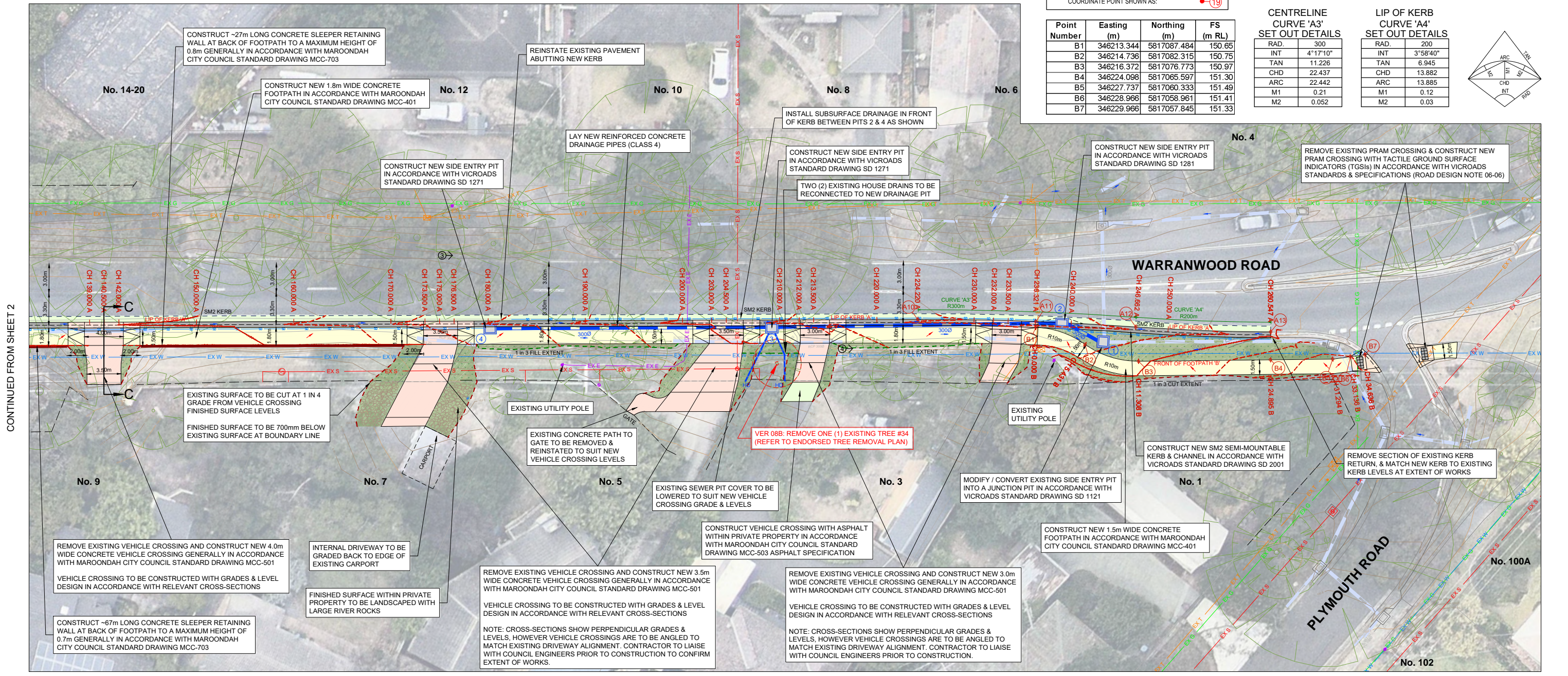
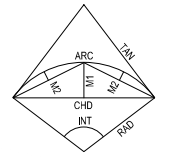
SURVEY COORDINATE SETOUT POINT TABLES

COORDINATE POINT SHOWN AS:

Point Number	Easting (m)	Northing (m)	FS (m RL)
B1	346213.344	5817087.484	150.65
B2	346214.736	5817082.315	150.75
B3	346216.372	5817076.773	150.97
B4	346224.098	5817065.597	151.30
B5	346227.737	5817060.333	151.49
B6	346228.966	5817058.961	151.41
B7	346229.966	5817057.845	151.33

SURVEY CURVE / ARC SETOUT DETAIL TABLES

CENTRELINE CURVE 'A3' SET OUT DETAILS		LIP OF KERB CURVE 'A4' SET OUT DETAILS	
RAD.	INT	RAD.	INT
300	4°17'10"	200	3°58'40"
11.226	TAN	6.945	TAN
22.437	CHD	13.882	CHD
22.442	ARC	13.885	ARC
0.21	M1	0.12	M1
0.052	M2	0.03	M2



GENERAL LAYOUT PLAN

1:200 @ A1
 1:400 @ A3

VER	DESCRIPTION	DATE
08B	DETAILED DESIGN - FOR REVIEW	03-08-2021
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ENGINEERING DESIGN: LUKE WHITFIELD
 ENGINEERING REVIEW: CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

LOCAL GOVERNMENT AREA: **MAROONDAH CITY COUNCIL**

ORIGINAL SCALE: AS SHOWN
 ORIGINAL SHEET SIZE: A1
 HEIGHT DATUM: AHD
 COORDINATE DATUM: MGA94 ZONE 55

CLIENT: **Maroondah City Council**

CLIENT PROJECT MANAGER / CONTACT: TOM DOBSON

DETAILED DESIGN

FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS

WARRANWOOD ROAD, WARRANWOOD
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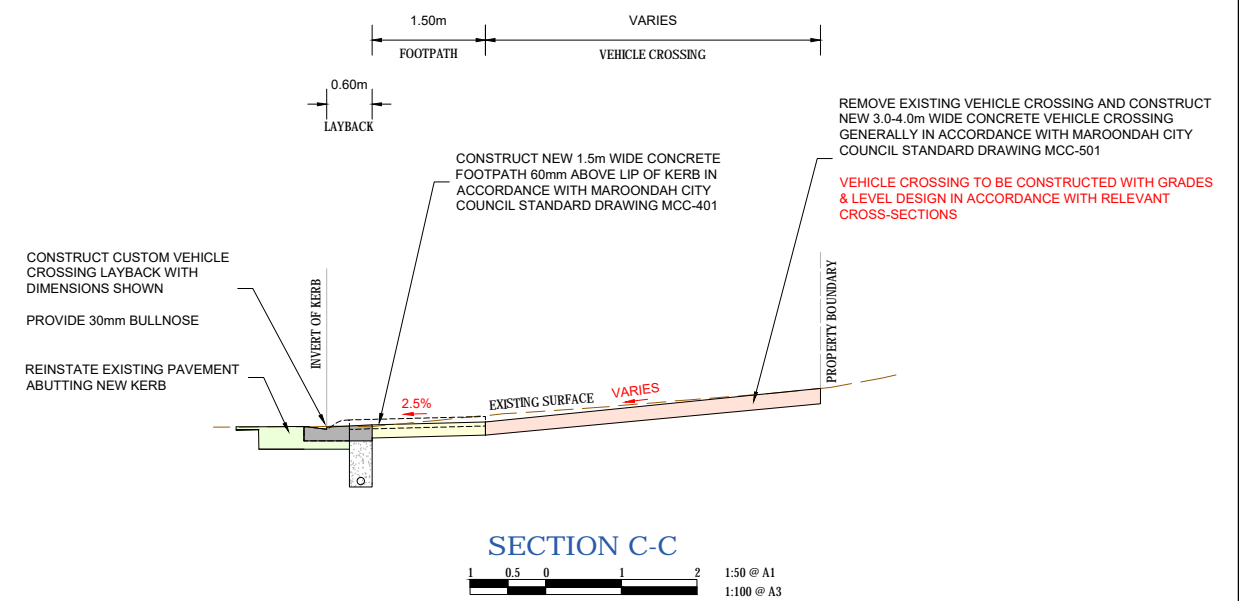
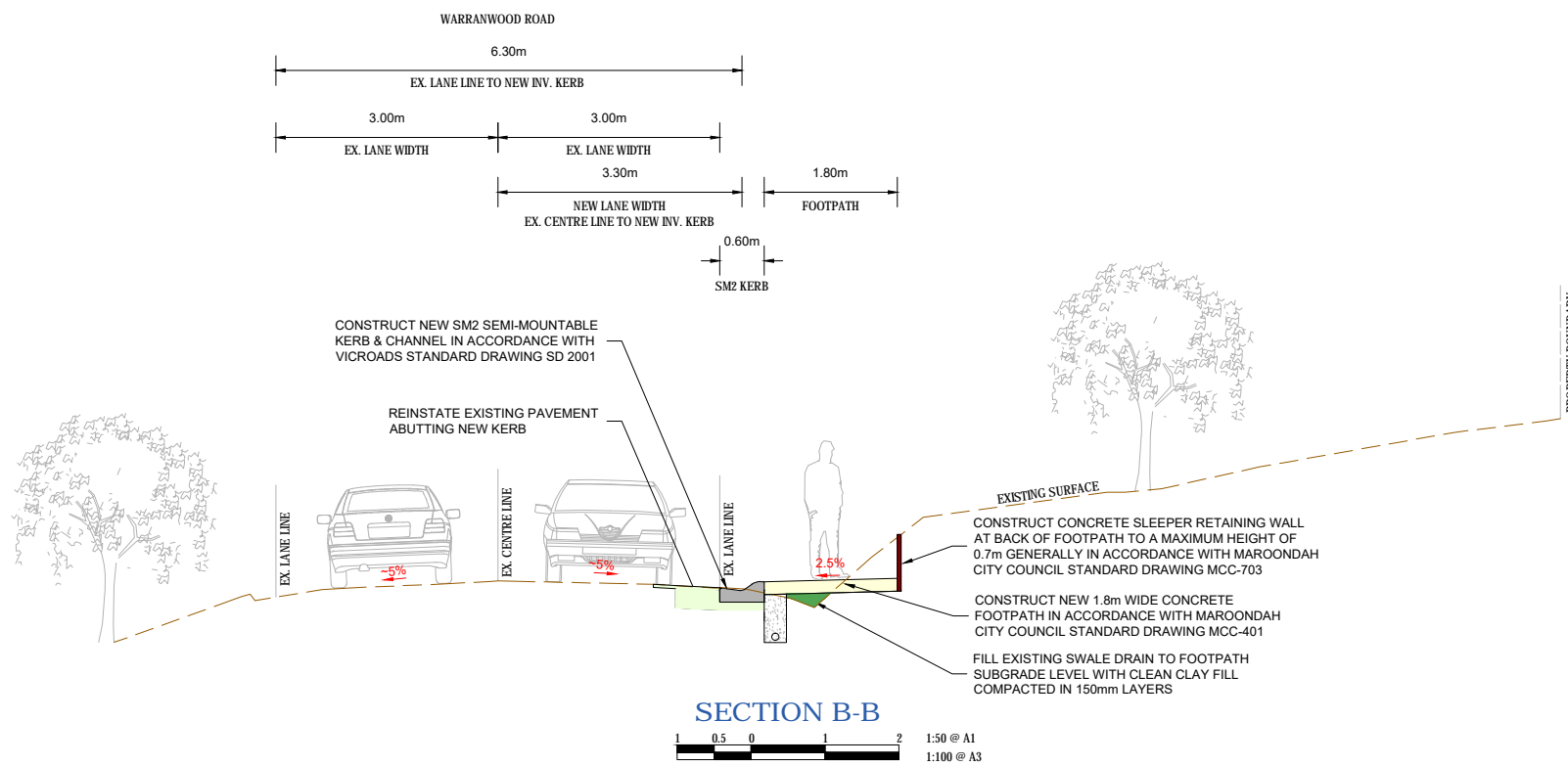
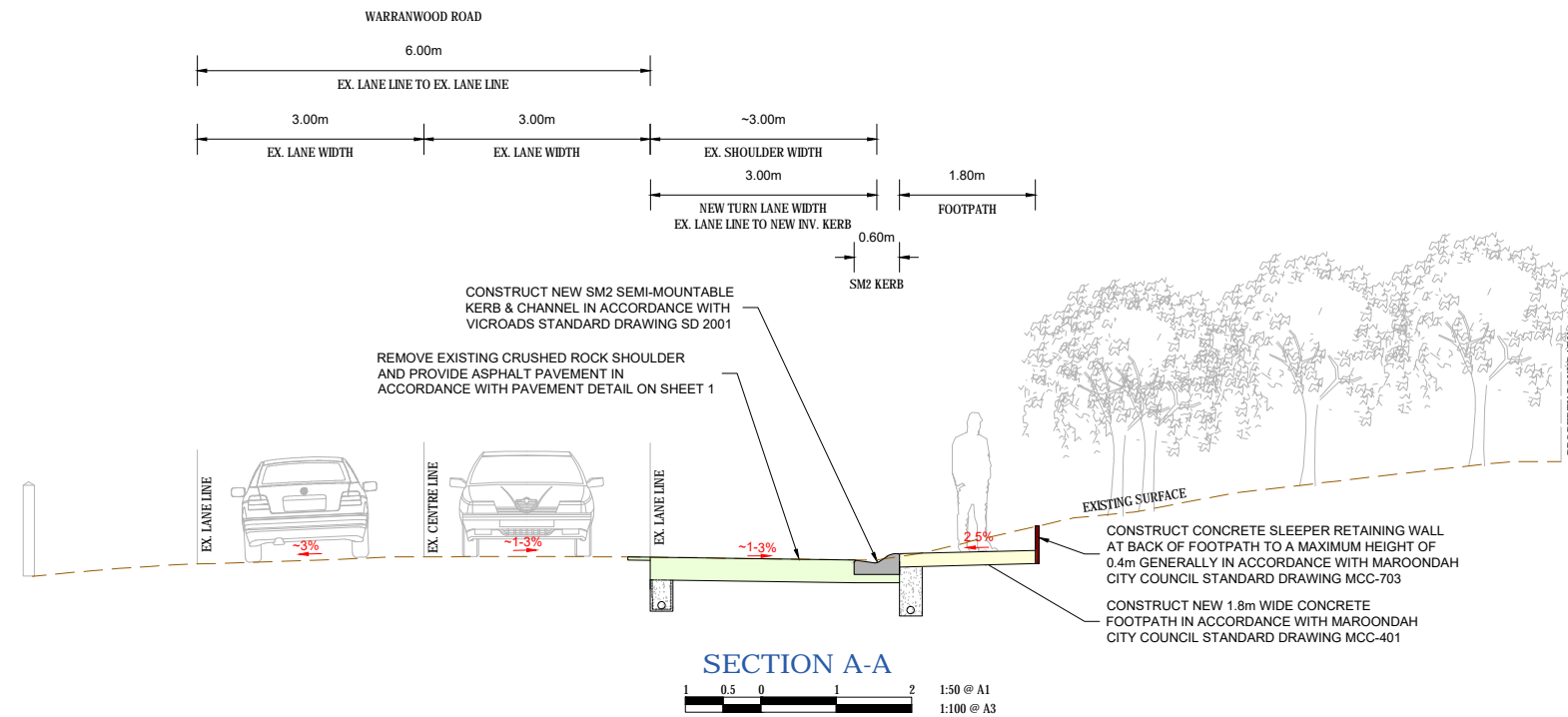
GENERAL LAYOUT PLAN

PROJECT No: PC18024
 SHEET No: 04 OF 13
 VER: 08B
 DWG No: PC18024-04-08B

CONTINUED FROM SHEET 2



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08B	03-08-2021	CONSULTANT ENGINEER
08A	01-07-2021	
08	22-02-2021	
07	15-02-2021	
06	16-10-2020	
05	31-07-2020	
04	25-03-2019	
03	05-03-2019	
02	07-02-2019	
VER	DATE	

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 Commitment | Communication | Collaboration

PROCIVIL CONSULTING PTY LTD
 ABN 51 759 386 092
 SUITE 9, 12 MAROONDAH HWY, RINGWOOD VIC 3134
 PO BOX 164, RINGWOOD VIC 3134
 P: (03) 8644 6834
 E: info@procivil.com.au
 www.procivil.com.au

ENGINEERING DESIGN: LUKE WHITFIELD
 ENGINEERING REVIEW: CHRIS PROCTOR

ORIENTATION: OR AS SHOWN

LOCAL GOVERNMENT AREA: **MAROONDAH CITY COUNCIL**

CLIENT:

CLIENT PROJECT MANAGER / CONTACT: TOM DOBSON

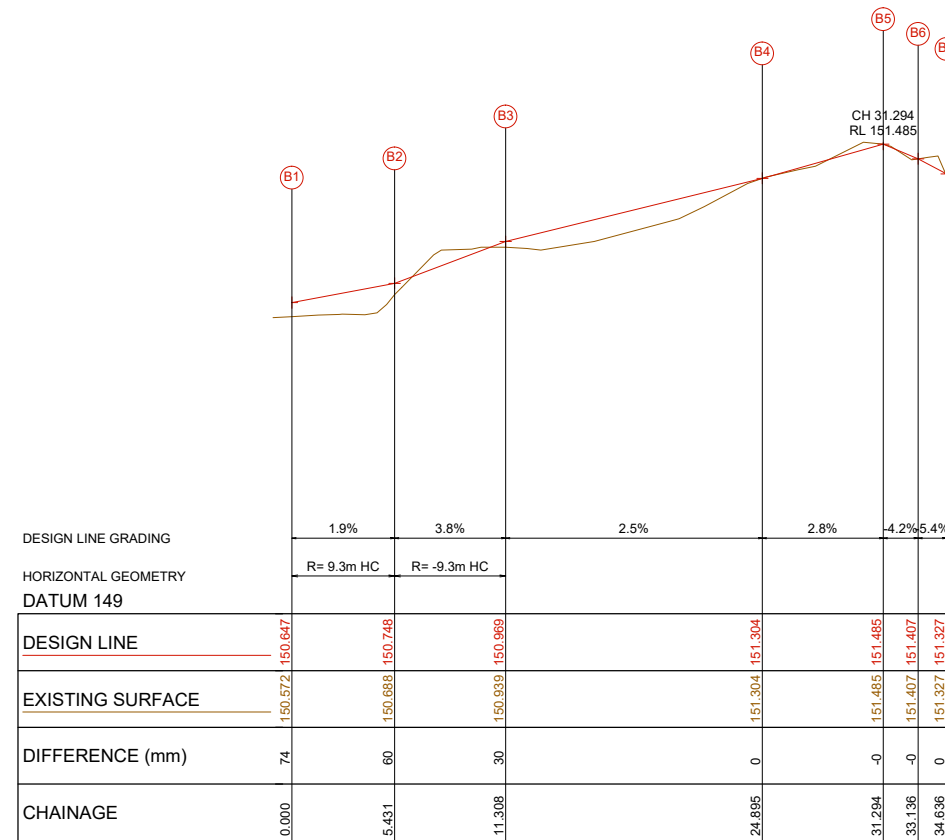
DETAILED DESIGN
FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS
WARRANWOOD ROAD, WARRANWOOD
 BETWEEN LEENA COURT & PLYMOUTH ROAD

TYPICAL SECTIONS A-A, B-B & C-C

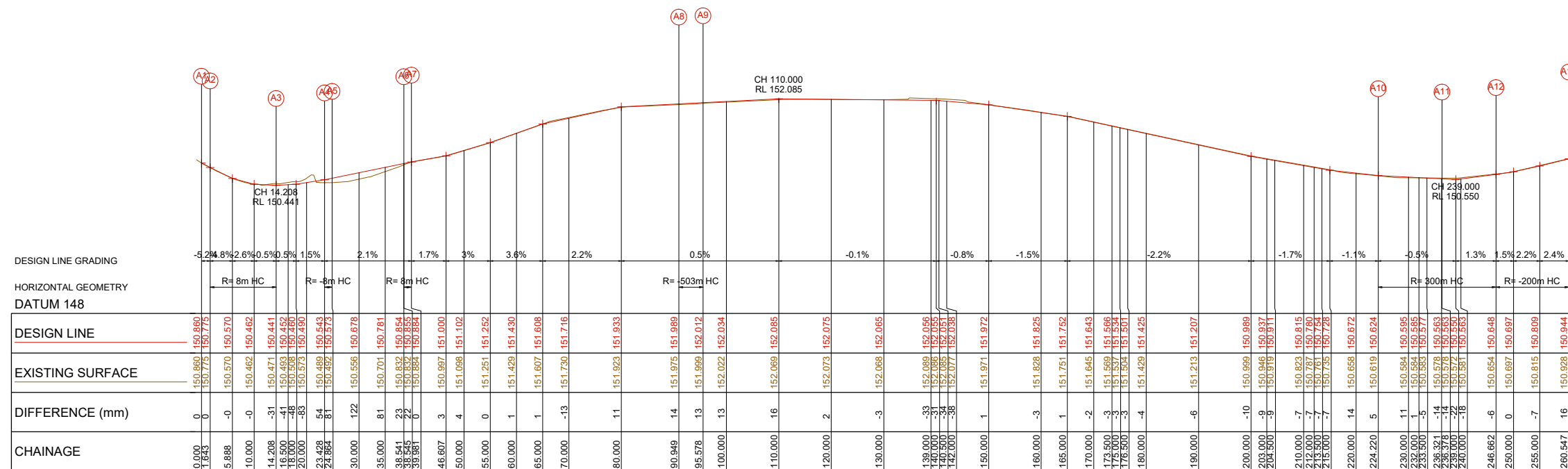
PROJECT No: PC18024
 SHEET No: 05 OF 13
 VER: 08B
 DWG No: PC18024-05-08B



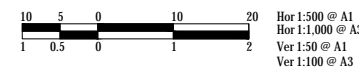
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



LONGITUDINAL SECTION - FRONT OF FOOTPATH 'B'



LONGITUDINAL SECTION - LIP OF KERB 'A'



08B	03-08-2021	01-07-2021
08A	01-07-2021	01-07-2021
08	22-02-2021	22-02-2021
07	15-02-2021	15-02-2021
06	16-10-2020	16-10-2020
05	31-07-2020	31-07-2020
04	25-03-2019	25-03-2019
03	05-03-2019	05-03-2019
02	07-02-2019	07-02-2019
VER	DATE	DATE

CONSULTANT ENGINEER

PROCVIL
CONSULTING ENGINEERING
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ENGINEERING DESIGN
LUKE WHITFIELD
ENGINEERING REVIEW
CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

LOCAL GOVERNMENT AREA
MAROONDAH CITY COUNCIL

ORIGINAL SCALE
AS SHOWN
ORIGINAL SHEET SIZE
A1
HEIGHT DATUM
AHD
COORDINATE DATUM
MGA94 ZONE 55

CLIENT

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON

DETAILED DESIGN

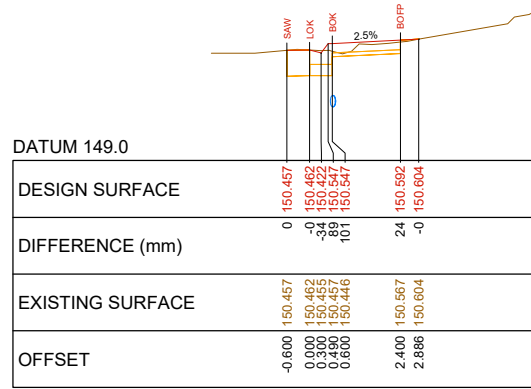
FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS
WARRANWOOD ROAD, WARRANWOOD

LONGITUDINAL SECTIONS- LIP OF KERB 'A' & FRONT OF FOOTPATH 'B'

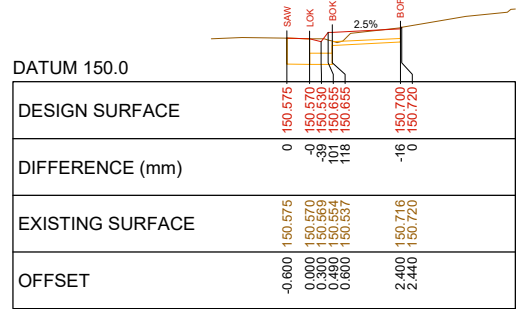
PROJECT No.	PC18024
SHEET No.	06 OF 13
VER	08B
DWG No.	PC18024-06-08B



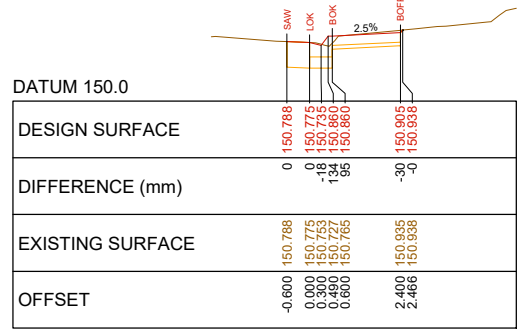
WARNING
Beware of Underground Services
 THE LOCATION OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



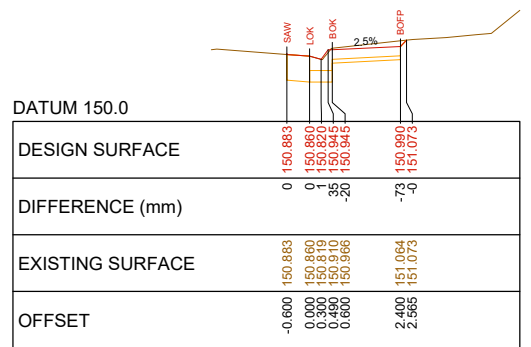
CH 10.000



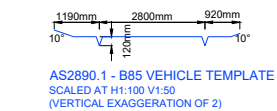
CH 5.888



CH 1.643

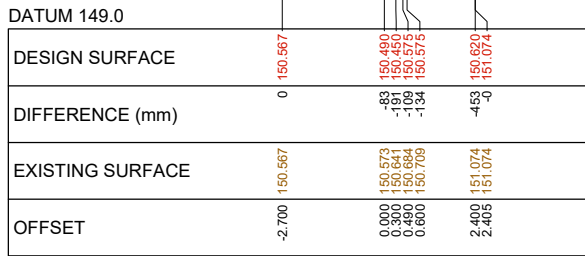


CH 0.000

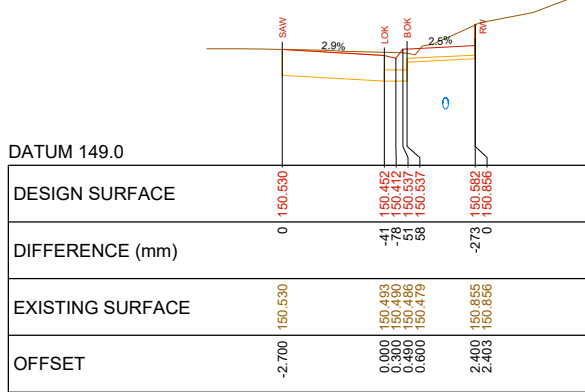


- LOK - LIP OF KERB
- BOK - BACK OF KERB
- SAW - ASPHALT SAW CUT
- FOFP - FRONT OF FOOTPATH
- BOFP - BACK OF FOOTPATH
- LAY - VEHICLE CROSSING LAYBACK

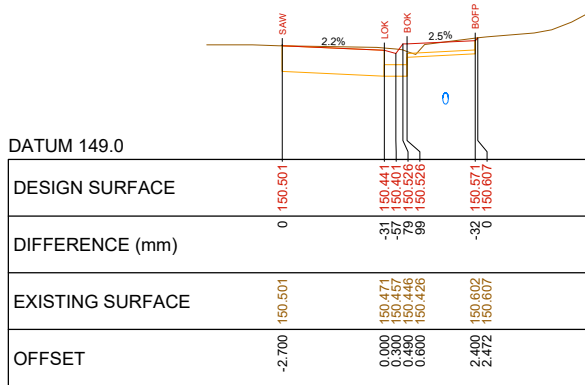
- BL - PROPERTY BOUNDARY
- FENCE - PROPERTY FENCE
- DWAY - PROPERTY DRIVEWAY
- CARPORT - PROPERTY CARPORT
- RW - RETAINING WALL



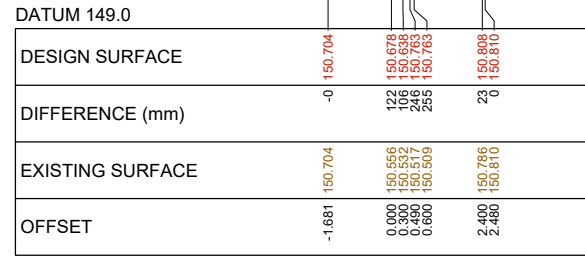
CH 20.000



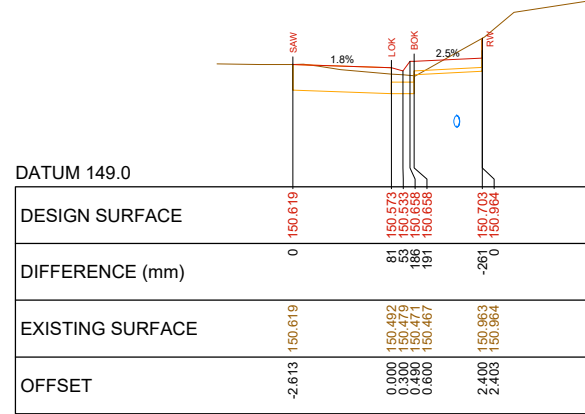
CH 16.500



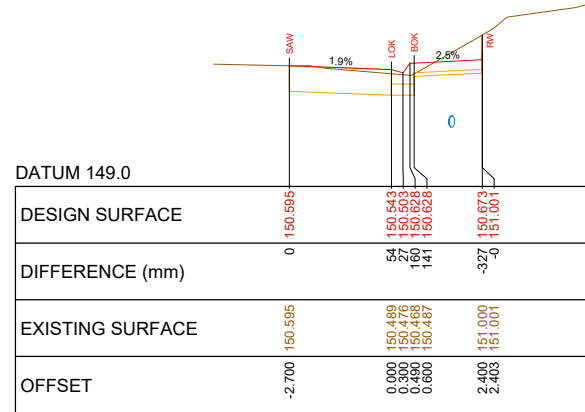
CH 14.208



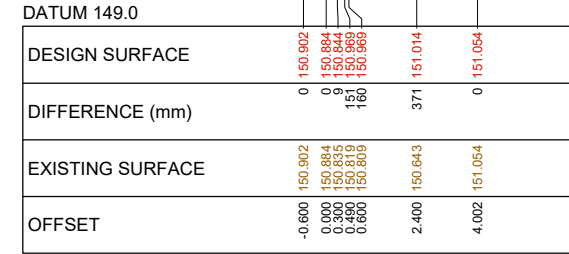
CH 30.000



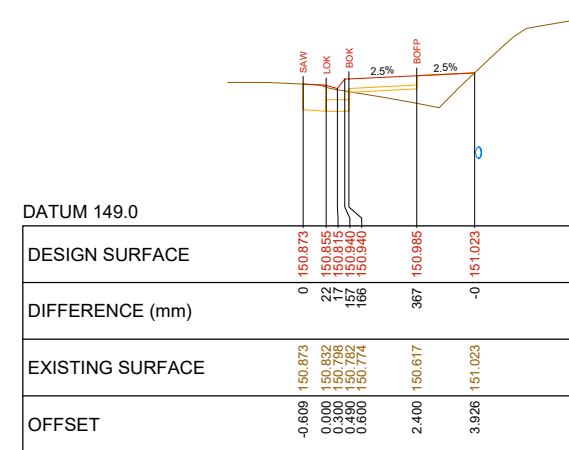
CH 24.864



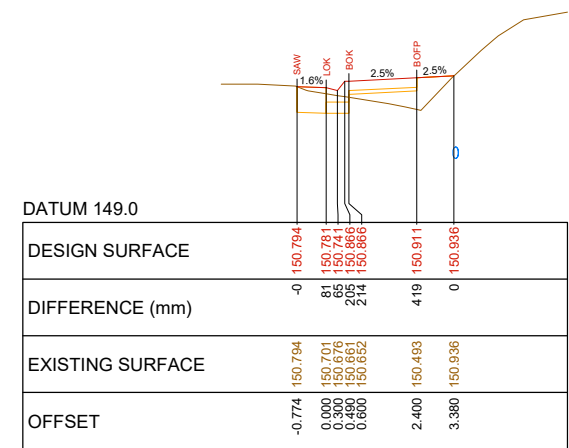
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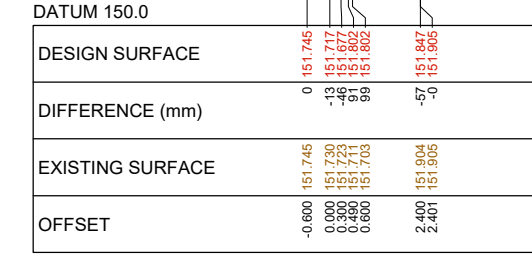
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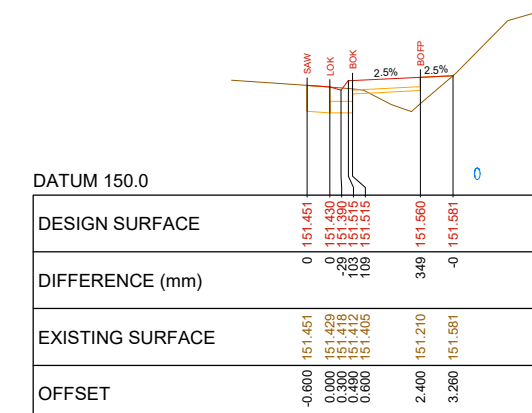
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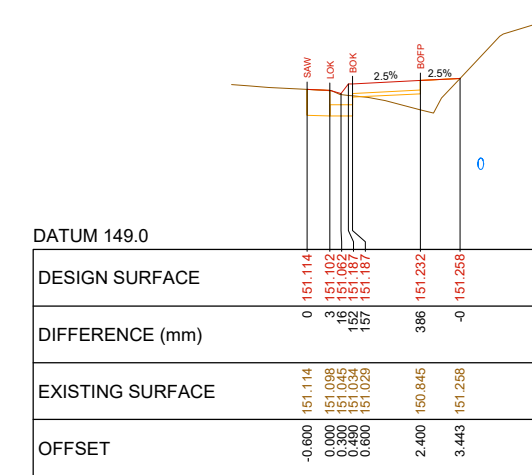
CH 35.000



CH 70.000

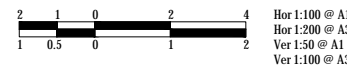


CH 60.000



CH 50.000

CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.000) LIP OF KERB 'A'



08B	DETAILED DESIGN - FOR REVIEW	03-08-2021
08A	DETAILED DESIGN - FOR REVIEW	01-07-2021
08	DETAILED DESIGN - FOR REVIEW	22-02-2021
07	DETAILED DESIGN - FOR REVIEW	15-02-2021
06	DETAILED DESIGN	16-10-2020
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04	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	25-03-2019
03	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	05-03-2019
02	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	07-02-2019
VER	DESCRIPTION	DATE

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ENGINEERING DESIGN
 LUKE WHITFIELD

ENGINEERING REVIEW
 CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

LOCAL GOVERNMENT AREA
MAROONDAH CITY COUNCIL

ORIGINAL SCALE
 AS SHOWN

ORIGINAL SHEET SIZE
 A1

HEIGHT DATUM
 AHD

COORDINATE DATUM
 MGA94 ZONE 55

CLIENT

CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON

DETAILED DESIGN

FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS

WARRANWOOD ROAD, WARRANWOOD

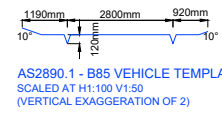
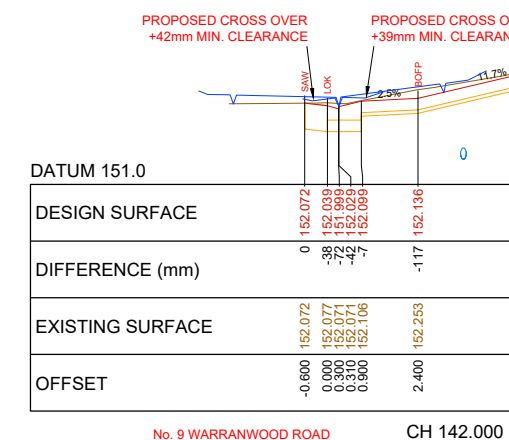
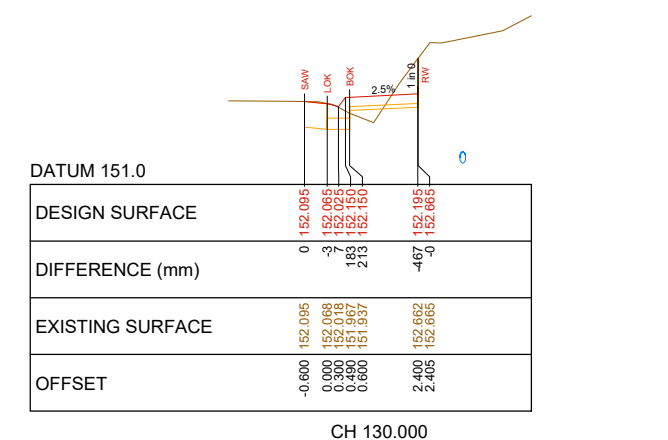
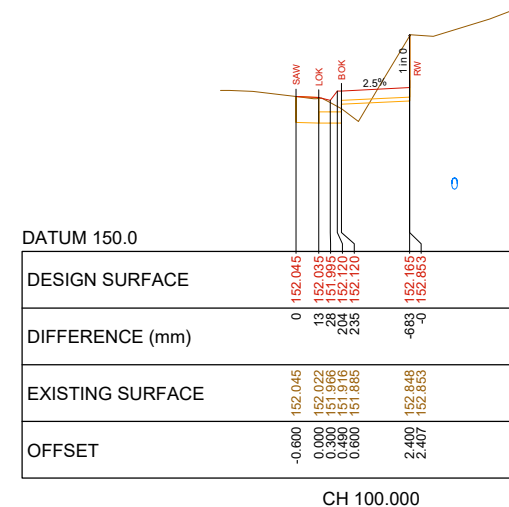
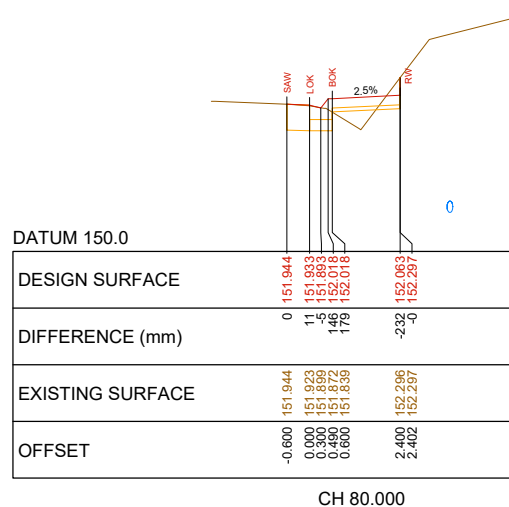
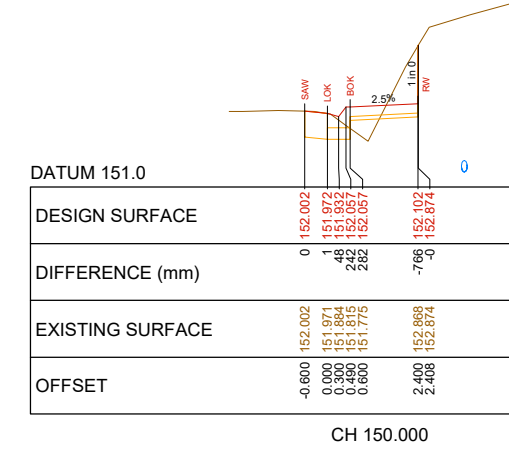
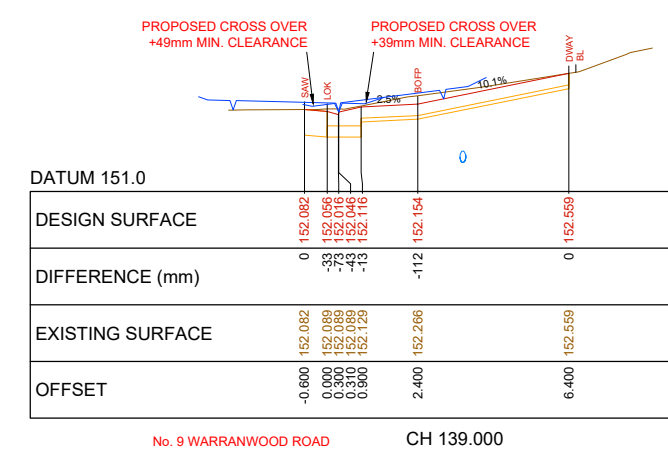
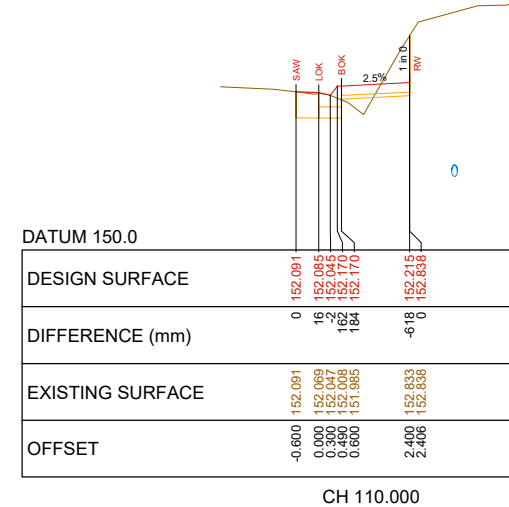
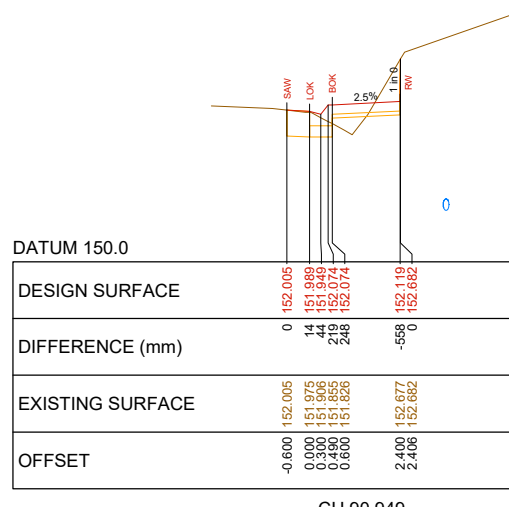
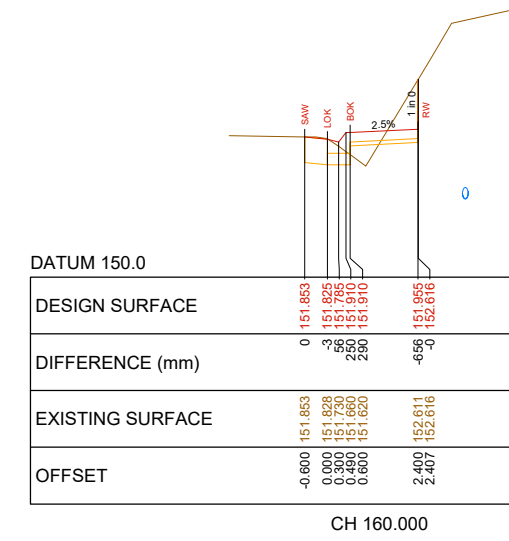
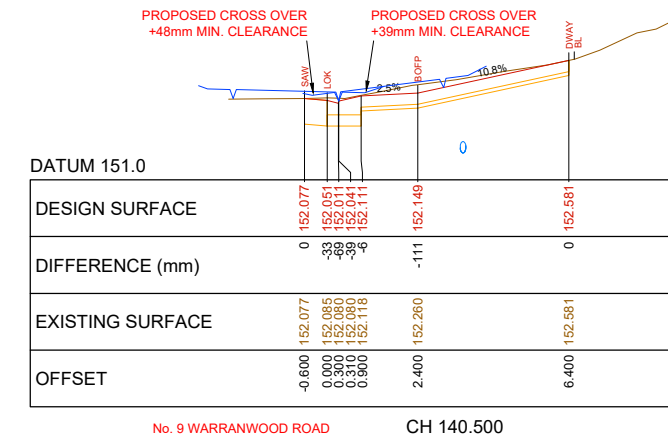
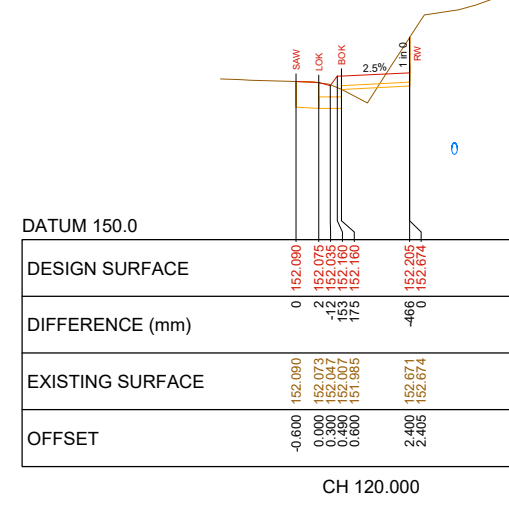
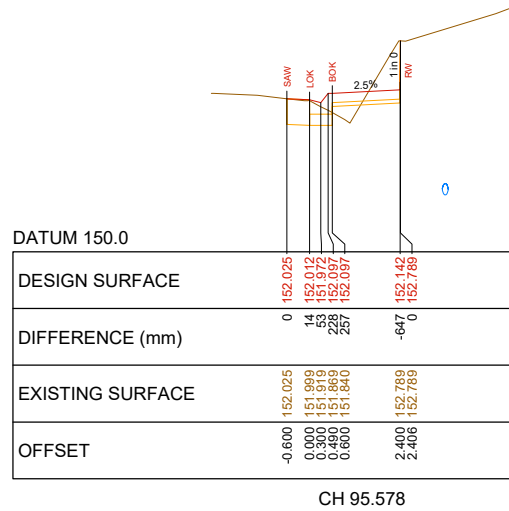
CROSS-SECTIONS - LIP OF KERB 'A' - CH 0.000 TO CH 70.000

PROJECT No.
 PC18024

SHEET No.
 07 OF 13

VER
 08B

BWG No.
 PC18024-07-08B



- LOK - LIP OF KERB
- BOK - BACK OF KERB
- SAW - ASPHALT SAW CUT
- FOFP - FRONT OF FOOTPATH
- BOFP - BACK OF FOOTPATH
- LAY - VEHICLE CROSSING LAYBACK

- BL - PROPERTY BOUNDARY
- FENCE - PROPERTY FENCE
- DWAY - PROPERTY DRIVEWAY
- CARPOT - PROPERTY CARPORT
- RW - RETAINING WALL

CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.000) LIP OF KERB 'A'



NO	DESCRIPTION	DATE
08B	DETAILED DESIGN - FOR REVIEW	03-08-2021
08A	DETAILED DESIGN - FOR REVIEW	01-07-2021
08	DETAILED DESIGN - FOR REVIEW	22-02-2021
07	DETAILED DESIGN - FOR REVIEW	15-02-2021
06	DETAILED DESIGN	16-10-2020
05	DRAFT DETAILED DESIGN	31-07-2020
04	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	25-03-2019
03	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	05-03-2019
02	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	07-02-2019
VER	DESCRIPTION	DATE

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www.procivil.com.au

ENGINEERING DESIGN
LUKE WHITFIELD

ENGINEERING REVIEW
CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

LOCAL GOVERNMENT AREA
MAROONDAH CITY COUNCIL

ORIGINAL SCALE
AS SHOWN

ORIGINAL SHEET SIZE
A1

HEIGHT DATUM
AHD

COORDINATE DATUM
MGA84 ZONE 55

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON

DETAILED DESIGN

FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS

WARRANWOOD ROAD, WARRANWOOD

CROSS-SECTIONS - LIP OF KERB 'A' - CH 80.000 TO CH 160.000

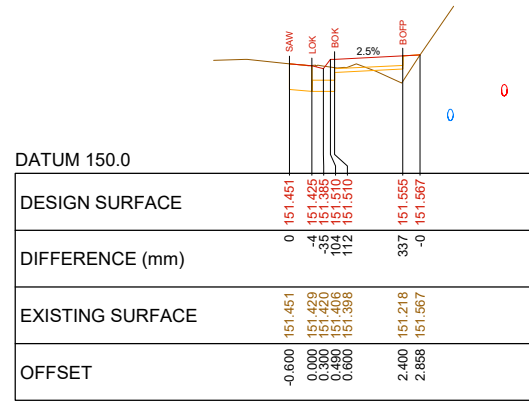
PROJECT No.
PC18024

SHEET No.
08 OF 13

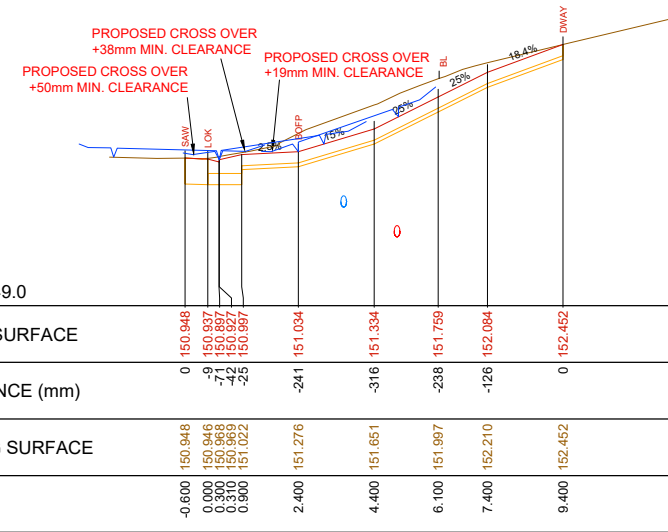
VER
08B

DWG No.
PC18024-08-08B

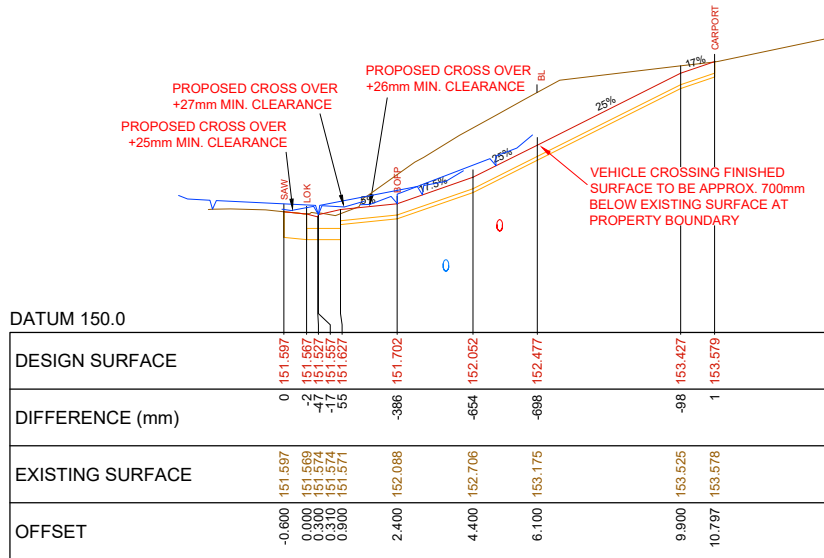
WARNING
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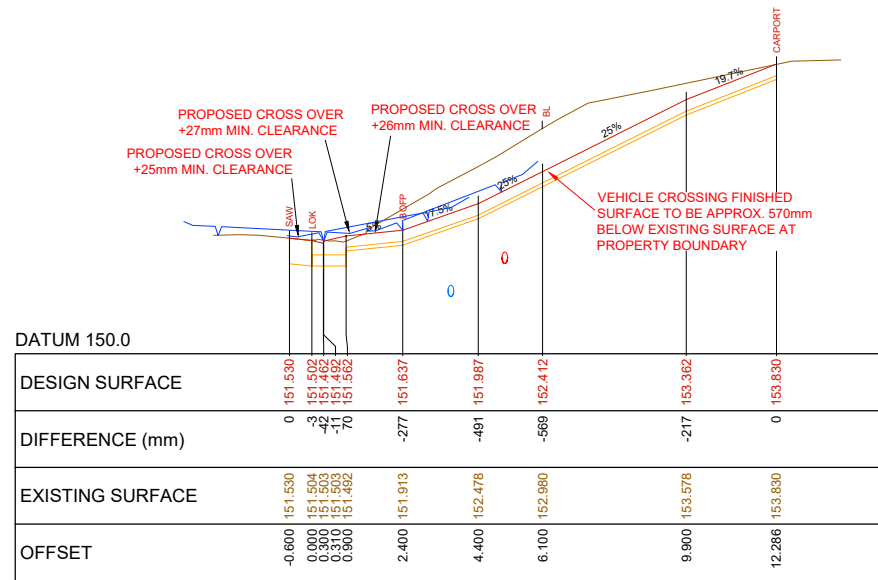
CH 180.000



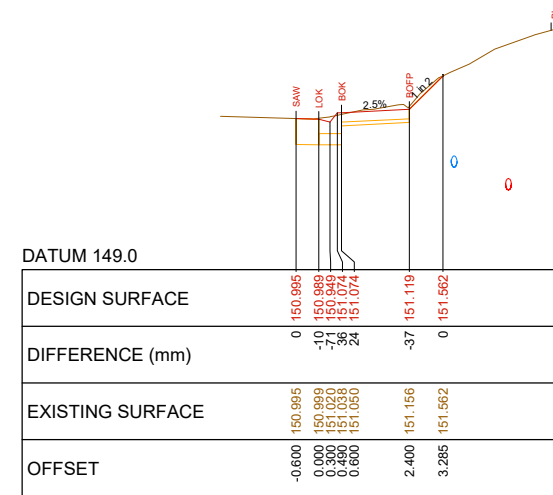
No. 5 WARRANWOOD ROAD CH 203.000



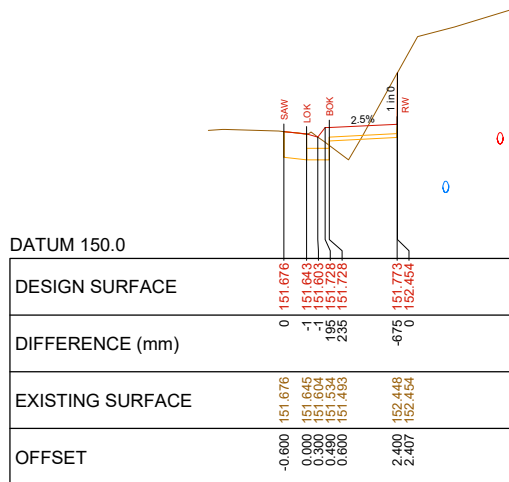
No. 7 WARRANWOOD ROAD CH 173.500



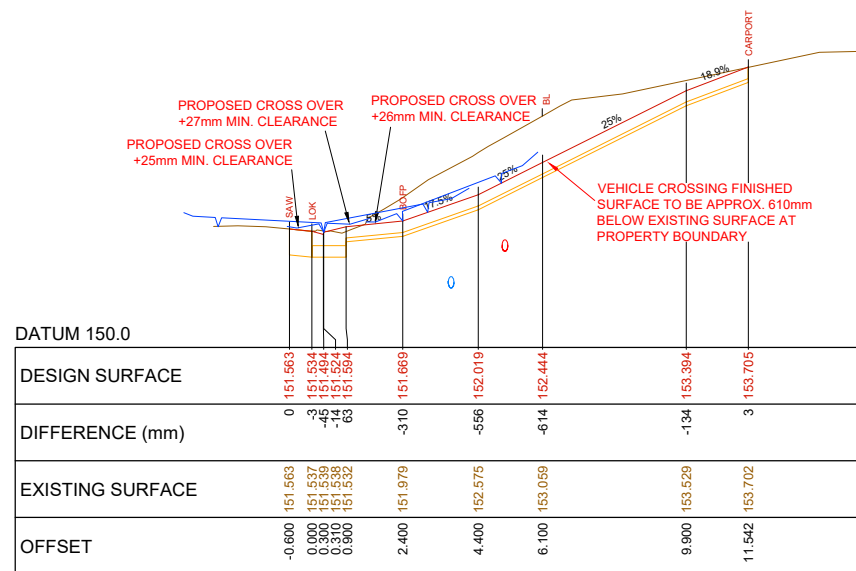
No. 7 WARRANWOOD ROAD CH 176.500



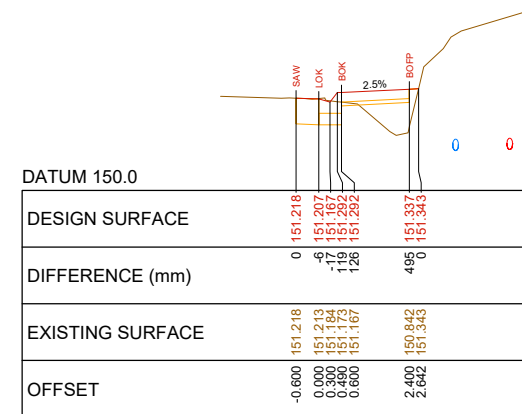
CH 200.000



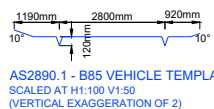
CH 170.000



No. 7 WARRANWOOD ROAD CH 175.000

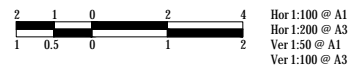


CH 190.000



LOK - LIP OF KERB
 BOK - BACK OF KERB
 SAW - ASPHALT SAW CUT
 FOFP - FRONT OF FOOTPATH
 BOFP - BACK OF FOOTPATH
 LAY - VEHICLE CROSSING LAYBACK

BL - PROPERTY BOUNDARY
 FENCE - PROPERTY FENCE
 DWAY - PROPERTY DRIVEWAY
 CARPORT - PROPERTY CARPORT
 RW - RETAINING WALL



CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.000) LIP OF KERB 'A'

NO	DESCRIPTION	DATE
08B	DETAILED DESIGN - FOR REVIEW	03-08-2021
08A	DETAILED DESIGN - FOR REVIEW	01-07-2021
08	DETAILED DESIGN - FOR REVIEW	22-02-2021
07	DETAILED DESIGN - FOR REVIEW	15-02-2021
06	DETAILED DESIGN	16-10-2020
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04	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	25-03-2019
03	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	05-03-2019
02	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	07-02-2019
VER	DESCRIPTION	DATE

CONSULTANT ENGINEER

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 Commitment | Communication | Collaboration

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ENGINEERING DESIGN
 LUKE WHITFIELD
 ENGINEERING REVIEW
 CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

LOCAL GOVERNMENT AREA
MAROONDAH CITY COUNCIL

ORIGINAL SCALE
 AS SHOWN

ORIGINAL SHEET SIZE
 A1

HEIGHT DATUM
 AHD

COORDINATE DATUM
 MGA84 ZONE 55

CLIENT

CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON

DETAILED DESIGN

FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS

WARRANWOOD ROAD, WARRANWOOD

CROSS-SECTIONS - LIP OF KERB 'A' - CH 170.000 TO CH 203.000

PROJECT No.
 PC18024

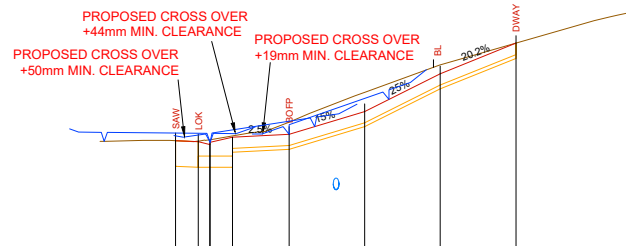
SHEET No.
 09 OF 13

VER
 08B

DWG No.
 PC18024-09-08B

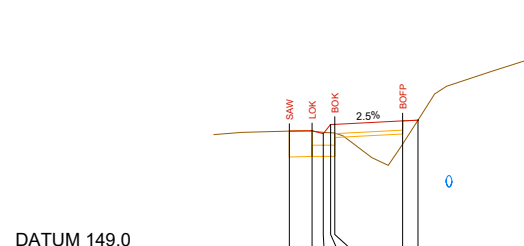


WARNING
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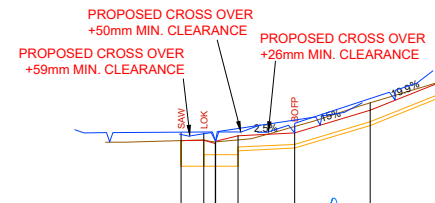
DATUM 149.0	
DESIGN SURFACE	0 150.794 -7 150.781 -65 150.741 -36 150.641 -18 150.641 -160 150.878
DIFFERENCE (mm)	0 150.794 -7 150.781 -65 150.806 -36 150.806 -18 150.806 -160 151.038
EXISTING SURFACE	-0.600 150.794 0.000 150.787 0.300 150.806 0.300 150.806 0.300 150.806 2.400 151.038
OFFSET	0 152.083 -2.54 151.178 -117 151.678 0 152.083

No. 3 WARRANWOOD ROAD - NORTHERN VC CH 212.000



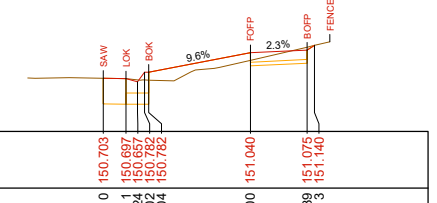
DATUM 149.0	
DESIGN SURFACE	0 150.617 5 150.624 114 150.769 118 150.709
DIFFERENCE (mm)	0 150.617 0.000 150.619 0.490 150.592 0.600 150.591
EXISTING SURFACE	-0.600 150.617 0.000 150.619 0.490 150.592 0.600 150.591
OFFSET	0 150.764 2.400 150.446 2.804 150.764

CH 224.220



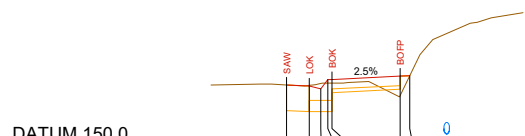
DATUM 149.0	
DESIGN SURFACE	0 150.574 -6 150.577 -21 150.537 5 150.637
DIFFERENCE (mm)	0 150.574 -6 150.583 -21 150.559 5 150.559
EXISTING SURFACE	-0.600 150.574 0.000 150.583 0.300 150.559 0.300 150.559
OFFSET	0 151.373 -85 150.675 -98 150.975 0 151.373

No. 3 WARRANWOOD ROAD - SOUTHERN VC CH 233.500



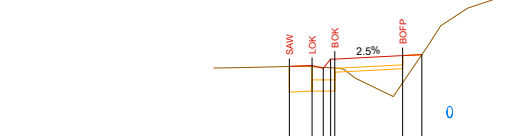
DATUM 150.0	
DESIGN SURFACE	0 150.703 1 150.697 -24 150.657 104 150.782
DIFFERENCE (mm)	0 150.703 -1 150.697 -24 150.681 104 150.679
EXISTING SURFACE	-0.600 150.703 0.000 150.697 0.300 150.681 0.600 150.679
OFFSET	0 151.040 100 151.040 -39 151.075 -3 151.140

CH 250.000



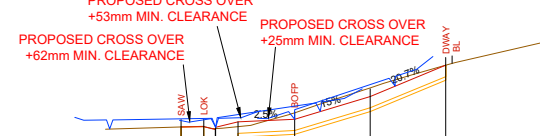
DATUM 150.0	
DESIGN SURFACE	0 150.829 -7 150.815 -73 150.775 47 150.900
DIFFERENCE (mm)	0 150.829 -7 150.823 -73 150.848 47 150.853
EXISTING SURFACE	-0.600 150.829 0.000 150.823 0.300 150.848 0.480 150.853
OFFSET	0 150.982 257 150.945 2.657 150.982

CH 210.000



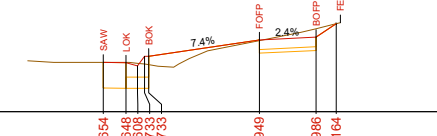
DATUM 149.0	
DESIGN SURFACE	0 150.657 14 150.672 116 150.757 120 150.757
DIFFERENCE (mm)	0 150.657 14 150.658 116 150.640 120 150.637
EXISTING SURFACE	-0.600 150.657 0.000 150.658 0.300 150.640 0.600 150.637
OFFSET	0 150.814 362 150.802 -0 150.814

CH 220.000



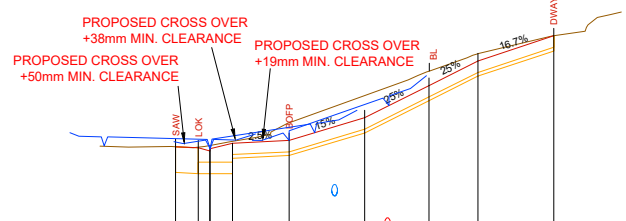
DATUM 149.0	
DESIGN SURFACE	0 150.577 1 150.585 -13 150.545 60 150.605
DIFFERENCE (mm)	0 150.577 -1 150.584 -13 150.558 60 150.558
EXISTING SURFACE	-0.600 150.577 0.000 150.584 0.300 150.558 0.300 150.558
OFFSET	0 151.396 -85 150.682 -115 150.982 0 151.396

No. 3 WARRANWOOD ROAD - SOUTHERN VC CH 232.000



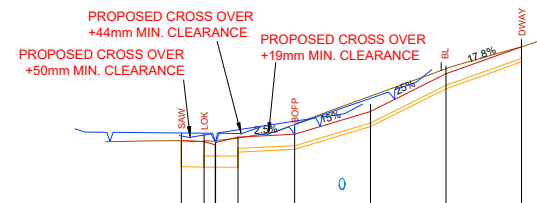
DATUM 150.0	
DESIGN SURFACE	0 150.654 -6 150.648 -34 150.608 112 150.733
DIFFERENCE (mm)	0 150.654 -6 150.654 -34 150.642 112 150.621
EXISTING SURFACE	-0.600 150.654 0.000 150.654 0.300 150.642 0.600 150.621
OFFSET	0 151.164 8 150.948 -113 150.986 -0 151.164

CH 246.662



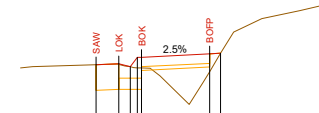
DATUM 149.0	
DESIGN SURFACE	0 150.924 -9 150.911 -71 150.871 -27 150.971 -234 151.006
DIFFERENCE (mm)	0 150.924 -9 150.919 -71 150.942 -27 150.937 -234 151.242
EXISTING SURFACE	-0.600 150.924 0.000 150.919 0.300 150.942 0.300 150.937
OFFSET	0 152.392 -283 151.306 -192 151.733 -96 152.056 0 152.392

No. 5 WARRANWOOD ROAD CH 204.500



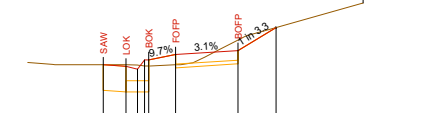
DATUM 149.0	
DESIGN SURFACE	0 150.767 -7 150.754 -52 150.744 11 150.814
DIFFERENCE (mm)	0 150.767 -7 150.764 -52 150.744 11 150.814
EXISTING SURFACE	-0.600 150.767 0.000 150.764 0.310 150.744 0.800 150.814
OFFSET	0 152.007 -131 150.852 -203 151.152 -66 151.652 0 152.007

No. 3 WARRANWOOD ROAD - NORTHERN VC CH 213.500



DATUM 149.0	
DESIGN SURFACE	0 150.581 11 150.595 -2 150.555 141 150.680
DIFFERENCE (mm)	0 150.581 11 150.584 -2 150.555 141 150.559
EXISTING SURFACE	-0.600 150.581 0.000 150.584 0.300 150.557 0.800 150.559
OFFSET	0 150.732 295 150.725 0 150.732

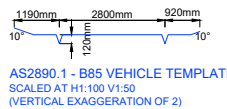
CH 230.000



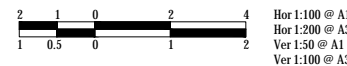
DATUM 149.0	
DESIGN SURFACE	0 150.581 -19 150.592 -54 150.576 83 150.644 136 150.716
DIFFERENCE (mm)	0 150.581 -19 150.582 -54 150.576 83 150.644 136 150.716
EXISTING SURFACE	-0.600 150.581 0.000 150.576 0.300 150.576 0.400 150.644 1.310 150.580
OFFSET	0 151.073 -140 150.767 0 151.073

CH 240.000

CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.000) LIP OF KERB 'A'



- LOK - LIP OF KERB
- BOK - BACK OF KERB
- SAW - ASPHALT SAW CUT
- FOFP - FRONT OF FOOTPATH
- BOFP - BACK OF FOOTPATH
- LAY - VEHICLE CROSSING LAYBACK
- BL - PROPERTY BOUNDARY
- FENCE - PROPERTY FENCE
- DWAY - PROPERTY DRIVEWAY
- CARPOT - PROPERTY CARPORT
- RW - RETAINING WALL



Hor 1:100 @ A1
Hor 1:200 @ A3
Ver 1:50 @ A1
Ver 1:100 @ A3

NO	DESCRIPTION	DATE
08B	DETAILED DESIGN - FOR REVIEW	03-08-2021
08A	DETAILED DESIGN - FOR REVIEW	01-07-2021
08	DETAILED DESIGN - FOR REVIEW	22-02-2021
07	DETAILED DESIGN - FOR REVIEW	15-02-2021
06	DETAILED DESIGN	16-10-2020
05	DRAFT DETAILED DESIGN	31-07-2020
04	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	25-03-2019
03	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	05-03-2019
02	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	07-02-2019
VER	DESCRIPTION	DATE

CONSULTANT ENGINEER

Specialist Civil Engineering Design Consultants

Commitment | Communication | Collaboration

PROCIVIL CONSULTING PTY LTD
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E: info@procivil.com.au
www.procivil.com.au

ENGINEERING DESIGN
LUKE WHITFIELD

ENGINEERING REVIEW
CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

LOCAL GOVERNMENT AREA
MAROONDAH CITY COUNCIL

ORIGINAL SCALE
AS SHOWN

CLIENT

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON

DETAILED DESIGN

FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS

WARRANWOOD ROAD, WARRANWOOD

CROSS-SECTIONS - LIP OF KERB 'A' - CH 204.500 TO CH 246.605

PROJECT No.
PC18024

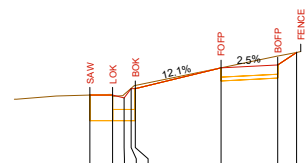
SHEET No.
10 OF 13

VER
08B

DWG No.
PC18024-10-08B

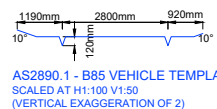


WARNING
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATION OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



	0	150.942	16	150.944	16	150.904	16	150.904	16	151.028	16	151.028	0	151.304	18	151.341	0	151.506
DESIGN SURFACE																		
DIFFERENCE (mm)	0	16	-46	-46	-46	-46	-46	-46	-46	-46	-46	-46	0	18	-118	18	0	151.506
EXISTING SURFACE		150.942	150.928	150.928	150.928	150.928	150.928	150.928	150.928	150.928	150.928	150.928	151.304	151.304	151.459	151.341	151.506	151.506
OFFSET	-0.600	0.000	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	2.864	2.864	4.364	4.860	4.860	4.860

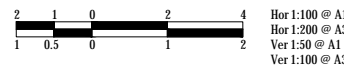
CH 260.547



- LOK - LIP OF KERB
- BOK - BACK OF KERB
- SAW - ASPHALT SAW CUT
- FOFP - FRONT OF FOOTPATH
- BOFP - BACK OF FOOTPATH
- LAY - VEHICLE CROSSING LAYBACK

- BL - PROPERTY BOUNDARY
- FENCE - PROPERTY FENCE
- DWAY - PROPERTY DRIVEWAY
- CARPORT - PROPERTY CARPORT
- RW - RETAINING WALL

CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.000) LIP OF KERB 'A'



VER	DESCRIPTION	DATE
08B	DETAILED DESIGN - FOR REVIEW	03-08-2021
08A	DETAILED DESIGN - FOR REVIEW	01-07-2021
08	DETAILED DESIGN - FOR REVIEW	22-02-2021
07	DETAILED DESIGN - FOR REVIEW	15-02-2021
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CONSULTANT ENGINEER

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ORIENTATION

OR AS SHOWN

LOCAL GOVERNMENT AREA
MAROONDAH CITY COUNCIL

ORIGINAL SCALE
 AS SHOWN

ORIGINAL SHEET SIZE
 A1

HEIGHT DATUM
 AHD

COORDINATE DATUM
 MGA84 ZONE 55

CLIENT

CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON

DETAILED DESIGN

FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS

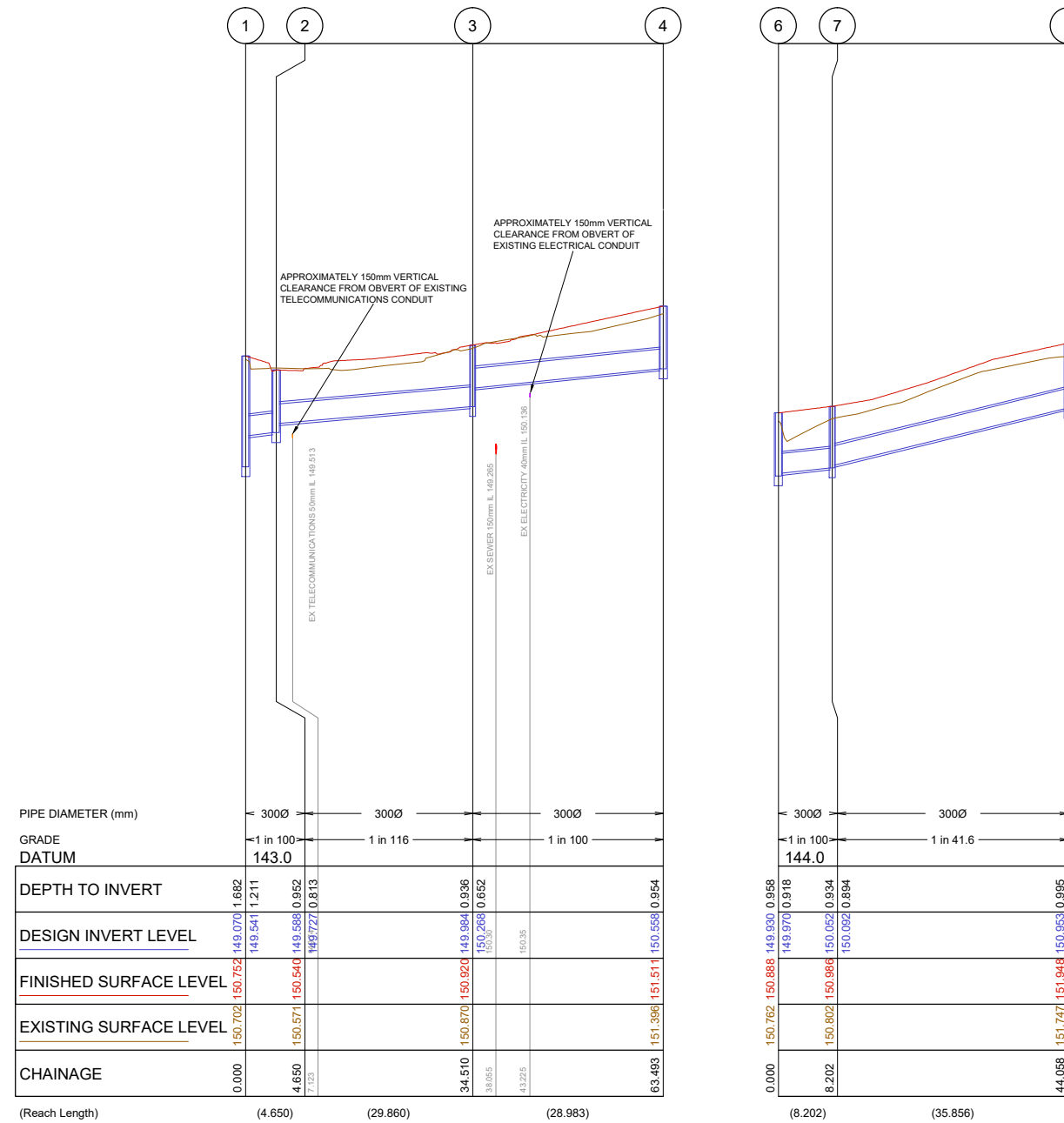
WARRANWOOD ROAD, WARRANWOOD

CROSS-SECTIONS - LIP OF KERB 'A' - CH 250.000 TO CH 260.490

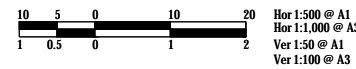
PROJECT No.	PC18024
SHEET No.	11 OF 13
VER	08B
DWG No.	PC18024-11-08B



WARNING
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DRAINAGE LONGITUDINAL SECTIONS



08B	03-08-2021	CONSULTANT ENGINEER
08A	01-07-2021	
08	22-02-2021	
07	15-02-2021	
06	16-10-2020	
05	31-07-2020	
04	25-03-2019	
03	05-03-2019	
02	07-02-2019	
VER	DATE	

PROCIVIL
 CONSULTING ENGINEERING
 Specialist Civil Engineering Design Consultants
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ENGINEERING DESIGN
 LUKE WHITFIELD
 ENGINEERING REVIEW
 CHRIS PROCTOR

ORIENTATION

 OR AS SHOWN

LOCAL GOVERNMENT AREA
MAROONDAH CITY COUNCIL

ORIGINAL SCALE
 AS SHOWN
 ORIGINAL SHEET SIZE
 A1
 HEIGHT DATUM
 AHD
 COORDINATE DATUM
 MGA84 ZONE 55

CLIENT

 CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON

DETAILED DESIGN
FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS
WARRANWOOD ROAD, WARRANWOOD
 DRAINAGE LONGITUDINAL SECTIONS

PROJECT No.	PC18024
SHEET No.	12 OF 13
VER	08B
DWG No.	PC18024-12-08B



WARNING
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DRAINAGE PIT SCHEDULE

PIT NAME	PIT TYPE	SETOUT EASTING (m)	SETOUT NORTHING (m)	INTERNAL		INLET		OUTLET		PIT SETOUT RL (m)	PIT DEPTH (m)	REFERENCE
				WIDTH (mm)	LENGTH (mm)	DIA (mm)	INV LEV (m)	DIA (mm)	INV LEV (m)			
1	JP	Existing	Existing	900	900	300 Ex 300	149.54 Ex 149.63	Ex 300	Ex 149.07	150.75	1.68	Modify / Convert existing Side Entry Pit into a Junction Pit in accordance with VicRoads Standard Drawing SD 1121
2	SEP	346215.193	5817085.484	750	1000	300	149.73	300	149.59	150.54	0.95	Construct new Side Entry Pit in accordance with VicRoads Standard Drawing SD 1281
3	SEP	346198.087	5817109.959	750	1000	300	150.27	300	149.98	150.92	0.94	Construct new Side Entry Pit in accordance with VicRoads Standard Drawing SD 1271
4	SEP	346181.791	5817133.926	750	1000	-	-	300	150.56	151.51	0.95	Construct new Side Entry Pit in accordance with VicRoads Standard Drawing SD 1271
5	SEP	Existing	Existing	750	1000	-	-	Ex 300	Ex 149.49	150.56	1.07	Raise height of existing Side Entry Pit to match new footpath levels & extend throat to match new lip of kerb in accordance with VicRoads Standard Drawing SD 1271
6	JP	Existing	Existing	600	900	300	149.97	Ex 300	Ex 149.93	150.89	0.96	Modify / Convert existing Side Entry Pit into a Junction Pit in accordance with VicRoads Standard Drawing SD 1121
7	SEP	346103.710	5817249.622	750	1000	300	150.09	300	150.05	150.99	0.93	Construct new Side Entry Pit in accordance with VicRoads Standard Drawing SD 1271
8	SEP	346123.597	5817219.787	750	1000	-	-	300	150.95	151.95	1.00	Construct new Side Entry Pit in accordance with VicRoads Standard Drawing SD 1271

NOTE:
 1. xy setout to pit centre, longitudinally along kerb - contractor to set out pit relative to kerb profile and relevant pit standard drawing
 2. setout level to pit cover level

JP - Junction Pit
 SEP - Side Entry Pit

08B	DETAILED DESIGN - FOR REVIEW	03-08-2021	CONSULTANT ENGINEER	 PROCIVIL CONSULTING ENGINEERING <i>Specialist Civil Engineering Design Consultants</i> Commitment Communication Collaboration	PROCIVIL CONSULTING PTY LTD ABN 51 759 386 092 SUITE 9, 12 MAROONDAH HWY, RINGWOOD VIC 3134 PO BOX 164, RINGWOOD VIC 3134 P: (03) 8644 6834 E: info@procivil.com.au www.procivil.com.au	 OR AS SHOWN	LOCAL GOVERNMENT AREA MAROONDAH CITY COUNCIL CLIENT CLIENT PROJECT MANAGER / CONTACT TOM DOBSON	<div style="border: 2px solid red; padding: 5px; color: red; font-weight: bold;">DETAILED DESIGN</div> FOOTPATH CONSTRUCTION & ROAD WIDENING WORKS WARRANWOOD ROAD, WARRANWOOD - DRAINAGE PIT SCHEDULE	PROJECT No. PC18024 SHEET No. 13 OF 13 VER 08B DWG No. PC18024-13-08B
08A	DETAILED DESIGN - FOR REVIEW	01-07-2021							
08	DETAILED DESIGN - FOR REVIEW	22-02-2021							
07	DETAILED DESIGN - FOR REVIEW	15-02-2021							
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VER	DESCRIPTION	DATE							