

CAR PARK UPGRADE WORKS

NORWOOD RESERVE, RINGWOOD NORTH



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.

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MAROONDAH CITY COUNCIL - STANDARD CONSTRUCTION NOTES - MCC-002

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. CONTRACTORS SHALL ALSO COMPLY WITH RELEVANT WORKING CLEARANCES FOR OTHER UNDERGROUND UTILITIES AS SPECIFIED BY THE UTILITY OWNERS, INCLUDING BUT NOT LIMITED TO UNDERGROUND GAS & ELECTRICAL SERVICES. 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 OR VEGETATION 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.
- ALL CONCRETE TO HAVE COMPRESSIVE STRENGTH AT 28 DAYS NOT LESS THAN 25 MPa UNLESS SPECIFIED OTHERWISE.
- ALL CRUSHED ROCK TO BE CURRENT VICROADS REGISTERED MIXES.
- CLASS 3 CRUSHED ROCK & CEMENT TREATED CRUSHED ROCK MAY CONTAIN 100% CRUSHED CONCRETE IN ACCORDANCE WITH VICROADS TECHNICAL NOTE TN 107 - USE OF RECYCLED MATERIALS IN ROAD PAVEMENTS.
- ALL LINE MARKING TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 1742.1 AND TO BE LONG LIFE THERMOPLASTIC IN ACCORDANCE WITH VICROADS SECTION 724 OR AS DIRECTED BY SUPERVISING ENGINEER.
- WHERE PRODUCTS HAVE RECOMMENDED SUPPLIERS, ALTERNATIVES MAY BE CONSIDERED, HOWEVER MUST BE ACCEPTED BY COUNCIL IN WRITING.
- A VEHICLE CROSSING PERMIT MUST BE OBTAINED FROM COUNCIL BEFORE UNDERTAKING ANY CONCRETE WORKS TO COUNCIL ASSETS, INCLUDING FOOTPATH AND VEHICLE CROSSING CONSTRUCTION.
- A ROAD/ASSET OPENING PERMIT MUST BE OBTAINED FROM COUNCIL BEFORE UNDERTAKING ANY EXCAVATION IN THE ROAD RESERVE OR CONNECTING TO A COUNCIL DRAINAGE ASSET IN THE ROAD RESERVE OR EASEMENT.

DRAINAGE NOTES

- NO INTERNAL DIMENSION OF JUNCTION PITS SHALL BE LESS THAN PIPE DIAMETER PLUS 150mm.
- WHERE PIT DEPTH EXCEEDS 1000mm, STEP IRONS ARE TO BE INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-202.
- WHERE PIT DEPTH EXCEEDS 1500mm, PIT WALLS ARE TO BE REINFORCED WITH SL72 MESH CENTRALLY PLACED.
- WHERE PIT DEPTH EXCEEDS 1800mm AND/OR PIPE DIAMETER EXCEEDS 450mm, PIT WALLS ARE TO BE 200mm THICK CONCRETE.
- WHERE PIT DEPTH EXCEEDS 3600mm, PIT IS TO BE DESIGNED IN ACCORDANCE WITH VICROADS STANDARD DRAWING SD 1011.
- PRECAST PITS MAY BE USED AS JUNCTION PITS SUBJECT TO COUNCIL APPROVAL IN WRITING.
- WITHIN NON-TRAFFICABLE AREAS, ALL PIT LIDS ARE TO BE MINIMUM CLASS B, LIGHTWEIGHT & LOCKABLE IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 3996:2019, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- WITHIN TRAFFICABLE AREAS, ALL PIT LIDS ARE TO BE MINIMUM CLASS D, HEAVY DUTY IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 3996:2019, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- ALL GRATED PIT LIDS ARE TO BE BICYCLE SAFE & INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

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.

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.

SEDIMENT CONTROL

- CONTRACTORS SHALL ENSURE THAT ALL WORKS COMPLY WITH THE REQUIREMENTS OF THE ENVIRONMENT 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.

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.

VER	DESCRIPTION	DATE
04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
03	DETAILED DESIGN - ISSUED FOR REVIEW	31-05-2022
02	DETAILED DESIGN - ISSUED FOR REVIEW	12-05-2022
01	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	02-05-2022
00	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	10-11-2021

CONSULTANT ENGINEER

PROCVIL
CONSULTING ENGINEERING

Specialist Civil Engineering Design Consultants

Commitment | Communication | Collaboration

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CIVIL ENGINEERING DESIGN: JUSTIN SIMS
TECHNICAL PEER REVIEW: LUKE WHITFIELD

REGISTERED & CHARTERED PROFESSIONAL ENGINEER
CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE
AS SHOWN @ A1

HEIGHT DATUM
AHD

COORDINATE DATUM
MGA 94 ZONE 55

SURVEY DATE
01-10-2021

AERIAL IMAGE DATE
01-09-2021

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

CAR PARK UPGRADE WORKS

NORWOOD RESERVE, RINGWOOD NORTH

TITLE SHEET - LOCALITY PLAN, GENERAL NOTES & DRAWING INDEX

PROJECT No.
PC21030

SHEET No.
01 OF 28

VERSION
04

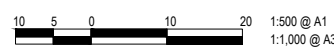
DWG No.
PC21030-01-04



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OVERALL PLAN



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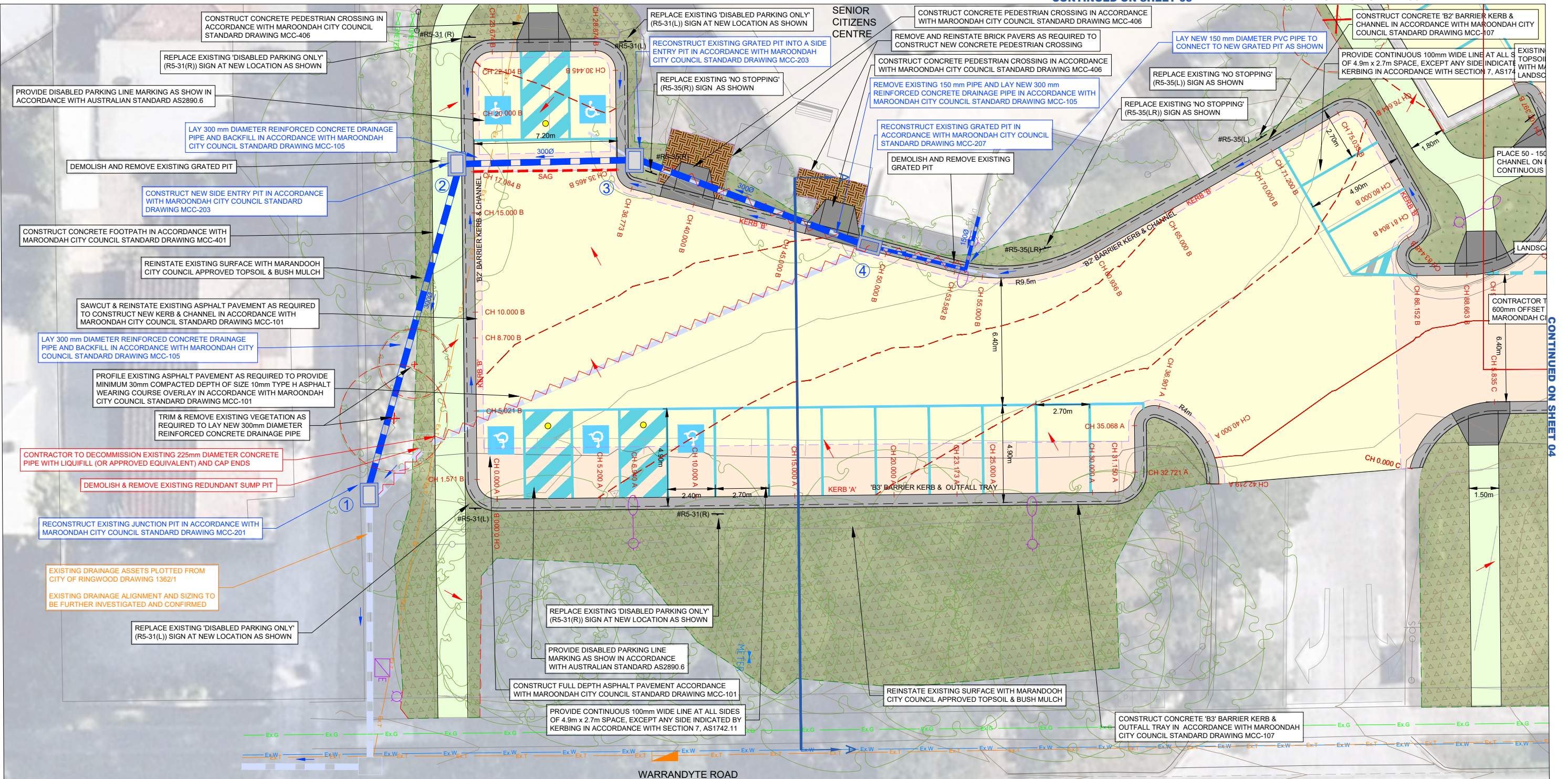
PROJECT No.	PC21030
SHEET No.	02 OF 28
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LEGEND

<ul style="list-style-type: none"> FULL DEPTH FLEXIBLE ASPHALT PAVEMENT - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101 REGULATION SIZE 10mm TYPE N ASPHALT WEARING COURSE (MINIMUM 30mm COMPACTED DEPTH) - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101 125mm THICK SL72 REINFORCED CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401 CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-406 TOPSOIL & SEED REINSTATEMENT - REINSTATED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL SPECIFICATIONS 	<ul style="list-style-type: none"> TOPSOIL & BUSH MULCH REINSTATEMENT - REINSTATED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL SPECIFICATIONS PAVEMENT LINE MARKING NEW DRAINAGE PIT WITH PIT NUMBER AND PIPE NEW CONCRETE KERB AND CHANNEL IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107 BRICK PAVERS TO BE REMOVED, CLEANED AND REINSTATED AS REQUIRED 150mm WIDE ROUND 'DOME TOP' WOODEN BOLLARDS - INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL LANDSCAPING GUIDELINES ESTIMATED FILL BATTER EXTENT ESTIMATED CUT BATTER EXTENT EXISTING ASPHALT PAVEMENT TO BE SAWCUT 	<ul style="list-style-type: none"> PROVIDE 50 - 150mm DIAMETER GRADED ROCK INVERT / CHANNEL ON A BASE OF FINE CRUSHED ROCK PROVIDE 150 - 300mm DIAMETER GRADED ROCK FOR VEGETATED SWALE WSUD SWALE VEGETATION BY OTHERS EX-W - EXISTING WATER EX-G - EXISTING GAS EX-S - EXISTING SEWER EX-T - EXISTING TELECOMMUNICATIONS EX-E - EXISTING UNDERGROUND ELECTRICITY EX-D - EXISTING DRAINAGE PIPE REMOVE/DECOMMISSION EXISTING DRAINAGE PIPE 	<ul style="list-style-type: none"> REMOVE EXISTING TREE DIRECTION OF CHANNEL FLOW PROPOSED PAVEMENT GRADE EXISTING CONTOUR MAJOR (1.0m) EXISTING CONTOUR MINOR (0.2m) FINISHED SURFACE CONTOUR MAJOR (1.0m) FINISHED SURFACE CONTOUR MINOR (0.2m)
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>VER</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>04</td> <td>DETAILED DESIGN - ISSUED FOR REVIEW</td> <td>14-06-2022</td> </tr> <tr> <td>03</td> <td>DETAILED DESIGN - ISSUED FOR REVIEW</td> <td>31-05-2022</td> </tr> <tr> <td>02</td> <td>DETAILED DESIGN - ISSUED FOR REVIEW</td> <td>12-05-2022</td> </tr> <tr> <td>01</td> <td>FUNCTIONAL DESIGN - ISSUED FOR REVIEW</td> <td>02-05-2022</td> </tr> <tr> <td>00</td> <td>FUNCTIONAL DESIGN - ISSUED FOR REVIEW</td> <td>10-11-2021</td> </tr> </table>	VER	DESCRIPTION	DATE	04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022	03	DETAILED DESIGN - ISSUED FOR REVIEW	31-05-2022	02	DETAILED DESIGN - ISSUED FOR REVIEW	12-05-2022	01	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	02-05-2022	00	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	10-11-2021	<p>CONSULTANT ENGINEER</p> <p>PROCVIL CONSULTING ENGINEERING</p> <p>Specialist Civil Engineering Design Consultants</p> <p>Commitment Communication Collaboration</p>	<p>PROCVIL CONSULTING PTY LTD</p> <p>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@procvil.com.au www.procvil.com.au</p> <p>CIVIL ENGINEERING DESIGN JUSTIN SIMS</p> <p>TECHNICAL PEER REVIEW LUKE WHITFIELD</p> <p>REGISTERED & CHARTERED PROFESSIONAL ENGINEER CHRIS PROCTOR</p>	<p>ORIENTATION</p> <p>OR AS SHOWN</p>	<p>ORIGINAL SCALE & SHEET SIZE AS SHOWN @ A1</p> <p>HEIGHT DATUM AHD</p> <p>COORDINATE DATUM MGA 94 ZONE 55</p> <p>SURVEY DATE 01-10-2021</p> <p>AERIAL IMAGE DATE 01-09-2021</p>	<p>LOCAL GOVERNMENT AREA CITY OF MAROONDAH</p> <p>CLIENT </p> <p>CLIENT PROJECT MANAGER / CONTACT TOM DOBSON MAROONDAH CITY COUNCIL</p>	<p style="color: red; font-weight: bold;">DETAILED DESIGN</p> <p style="color: blue; font-weight: bold;">CAR PARK UPGRADE WORKS</p> <p>NORWOOD RESERVE, RINGWOOD NORTH</p> <p>GENERAL LAYOUT PLAN</p>	<p>PROJECT No. PC21030</p> <p>SHEET No. 03 OF 28</p> <p>VERSION 04</p> <p>DWG No. PC21030-03-04</p>
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LEGEND

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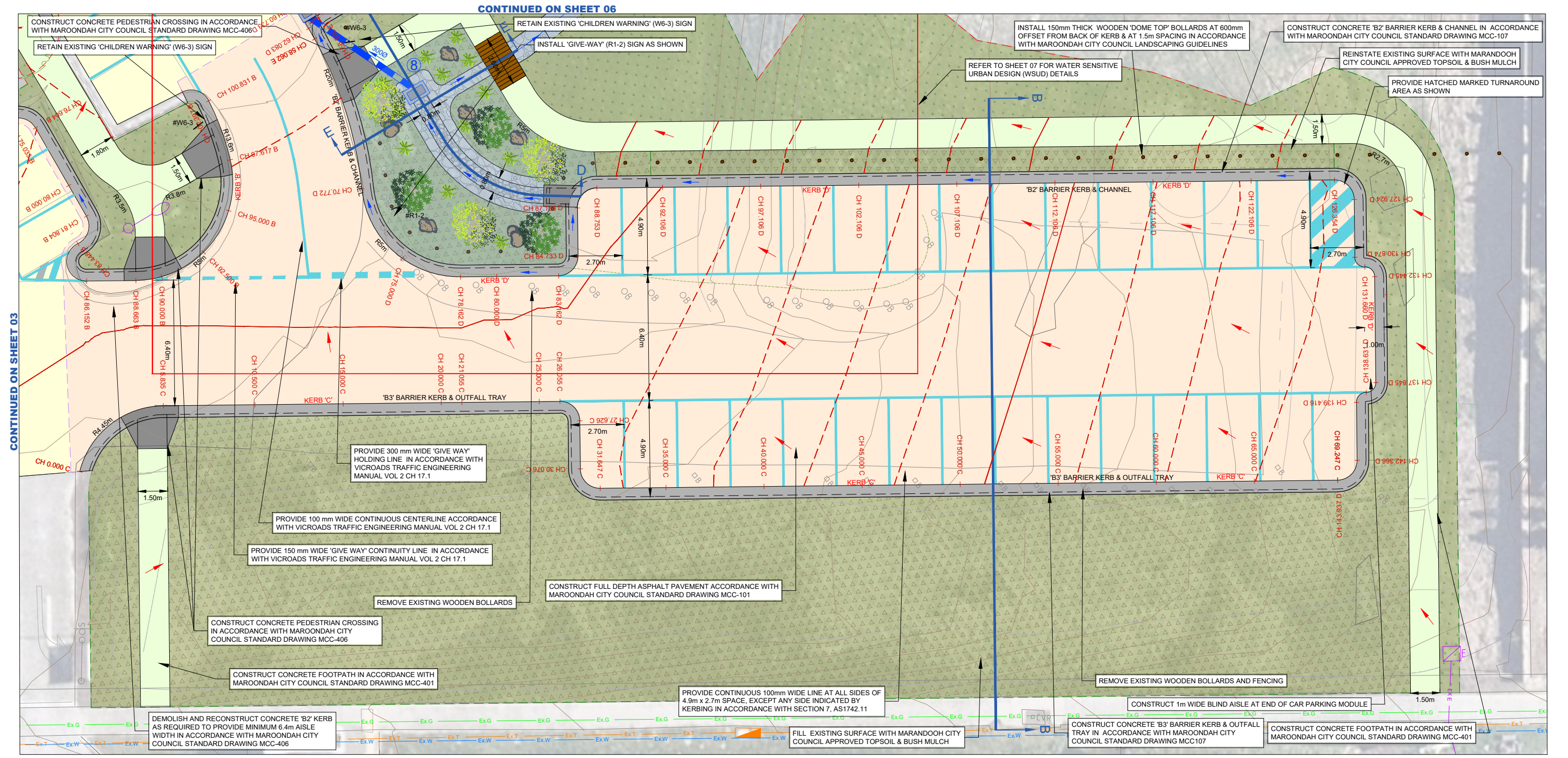
SIGNS LEGEND

 'GIVE WAY SIGN' R1-2	 'DISABLED PARKING SIGN' R5-31(R)	 'DISABLED PARKING SIGN' R5-31(L)	 'NO STOPPING SIGN' R5-35(LR)
 'CHILDREN WARNING SIGN' W6-3	 'NO PARKING SIGN' R5-40(L)	 'NO PARKING SIGN' R5-40(R)	SIGNS SHOWN AS

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The Essential First Step



GENERAL LAYOUT PLAN



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COORDINATE DATUM
MGA 94 ZONE 55

SURVEY DATE
01-10-2021

AERIAL IMAGE DATE
01-09-2021

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

CAR PARK UPGRADE WORKS

NORWOOD RESERVE, RINGWOOD NORTH

GENERAL LAYOUT PLAN

PROJECT No.
PC21030

SHEET No.
04 OF 28











VERSION
04

DWG No.
PC21030-04-04

LEGEND


<ul style="list-style-type: none"> FULL DEPTH FLEXIBLE ASPHALT PAVEMENT - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101 REGULATION SIZE 10mm TYPE N ASPHALT WEARING COURSE (MINIMUM 30mm COMPACTED DEPTH) - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101 125mm THICK SL72 REINFORCED CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401 CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-406 TOPSOIL & SEED REINSTATEMENT - REINSTATED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL SPECIFICATIONS 	<ul style="list-style-type: none"> TOPSOIL & BUSH MULCH REINSTATEMENT - REINSTATED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL SPECIFICATIONS PAVEMENT LINE MARKING NEW DRAINAGE PIT WITH PIT NUMBER AND PIPE NEW CONCRETE KERB AND CHANNEL IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107 BRICK PAVERS TO BE REMOVED, CLEANED AND REINSTATED AS REQUIRED 150mm WIDE ROUND 'DOME TOP' WOODEN BOLLARDS - INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL LANDSCAPING GUIDELINES ESTIMATED FILL BATTER EXTENT ESTIMATED CUT BATTER EXTENT EXISTING ASPHALT PAVEMENT TO BE SAWCUT 	<ul style="list-style-type: none"> PROVIDE 50 - 150mm DIAMETER GRADED ROCK INVERT / CHANNEL ON A BASE OF FINE CRUSHED ROCK PROVIDE 150 - 300mm DIAMETER GRADED ROCK FOR VEGETATED SWALE WSUD SWALE VEGETATION BY OTHERS EX W - EXISTING WATER EX G - EXISTING GAS EX S - EXISTING SEWER EX T - EXISTING TELECOMMUNICATIONS EX E - EXISTING UNDERGROUND ELECTRICITY EXISTING DRAINAGE PIPE REMOVE/DECOMMISSION EXISTING DRAINAGE PIPE 	<ul style="list-style-type: none"> X REMOVE EXISTING TREE DIRECTION OF CHANNEL FLOW PROPOSED PAVEMENT GRADE EXISTING CONTOUR MAJOR (1.0m) EXISTING CONTOUR MINOR (0.2m) FINISHED SURFACE CONTOUR MAJOR (1.0m) FINISHED SURFACE CONTOUR MINOR (0.2m)
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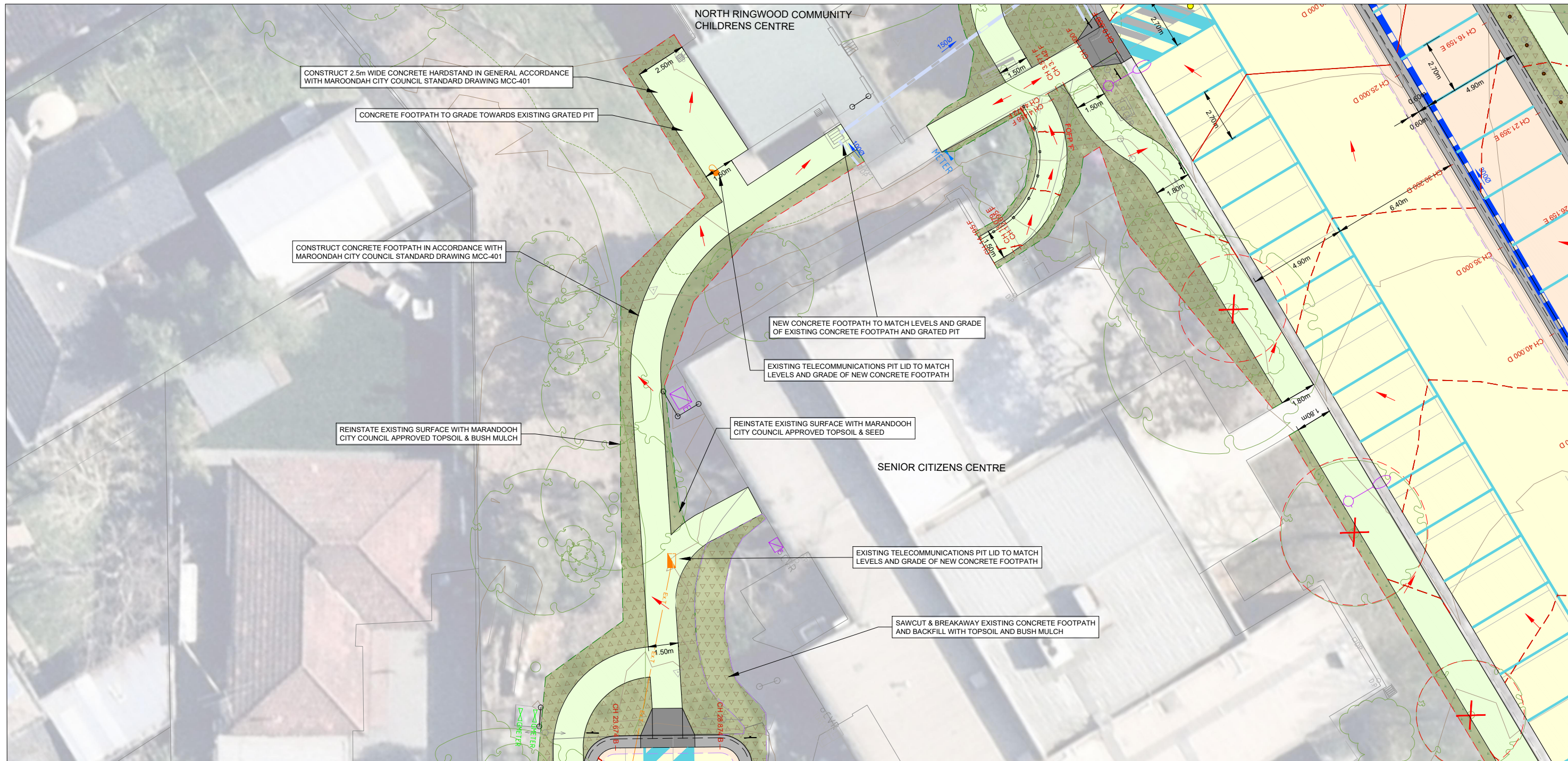
SIGNS LEGEND

 'GIVE WAY SIGN' R1-2	 'DISABLED PARKING SIGN' R5-31(R)	 'DISABLED PARKING SIGN' R5-31(L)	 'NO STOPPING SIGN' R5-35(LR)	 'NO STOPPING SIGN' R5-35(L)	 'NO STOPPING SIGN' R5-35(R)
 'CHILDREN WARNING SIGN' W6-3	 'NO PARKING SIGN' R5-40(L)	 'NO PARKING SIGN' R5-40(R)	SIGNS SHOWN AS 		

WARNING

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 The Essential First Step



CONTINUED ON SHEET 03

GENERAL LAYOUT PLAN



CONTINUED ON SHEET 06

VER	DESCRIPTION	DATE
04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
03	DETAILED DESIGN - ISSUED FOR REVIEW	31-05-2022
02	DETAILED DESIGN - ISSUED FOR REVIEW	12-05-2022
01	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	02-05-2022
00	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	10-11-2021

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REGISTERED & CHARTERED PROFESSIONAL ENGINEER	
CHRIS PROCTOR	

ORIENTATION



OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE
AS SHOWN @ A1

HEIGHT DATUM
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NORWOOD RESERVE, RINGWOOD NORTH

GENERAL LAYOUT PLAN

PROJECT No.
PC21030

SHEET No.
05 OF 28

VERSION
04

DWG No.
PC21030-05-04

LEGEND

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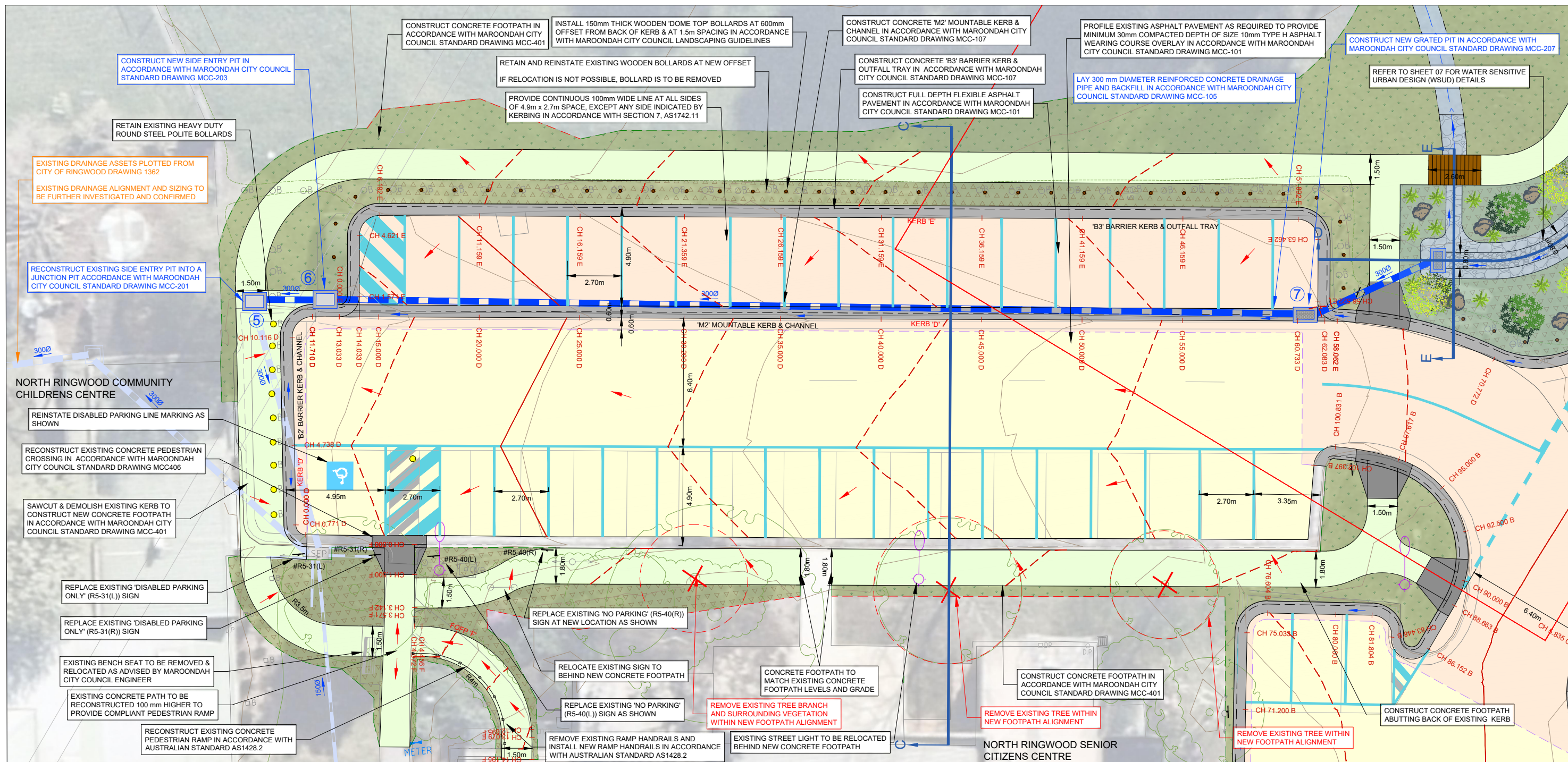
SIGNS LEGEND

			SIGNS SHOWN AS		

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The Essential First Step



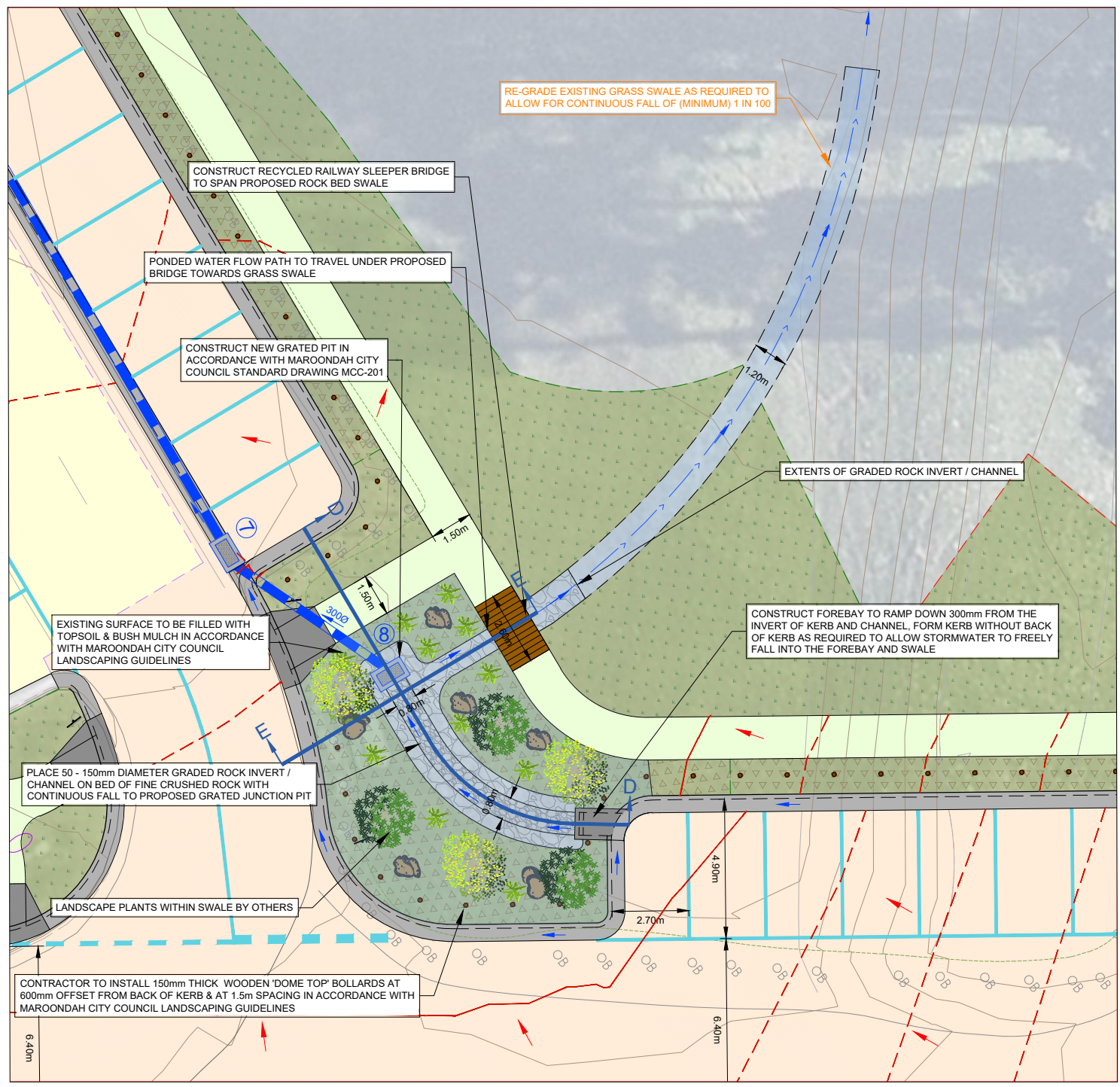
GENERAL LAYOUT PLAN



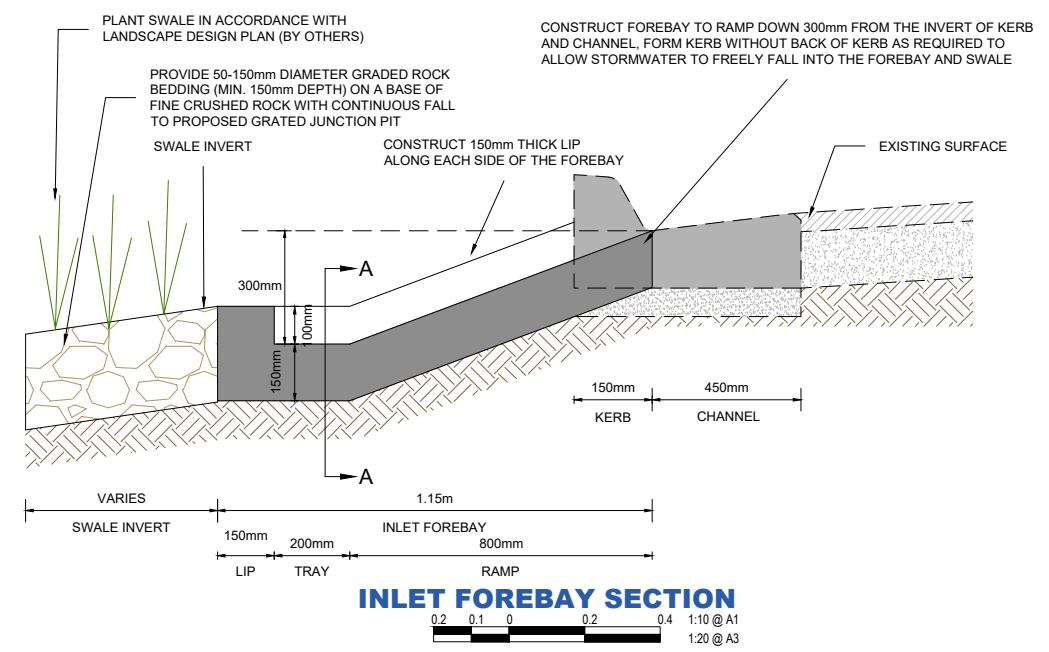
	CONSULTANT ENGINEER PROCVIL CONSULTING ENGINEERING Specialist Civil Engineering Design Consultants Commitment Communication Collaboration	PROCVIL CONSULTING PTY LTD ABN 51 759 386 092 SUITE 9, 12 MAROONDAH HWY, RINGWOOD VIC 3134 PO BOX 164, RINGWOOD VIC 3134 P: (03) 8644 6834 E: info@procvil.com.au www.procvil.com.au	ORIENTATION OR AS SHOWN	ORIGINAL SCALE & SHEET SIZE AS SHOWN @ A1 HEIGHT DATUM AHD COORDINATE DATUM MGA 94 ZONE 55 SURVEY DATE 01-10-2021 AERIAL IMAGE DATE 01-09-2021	LOCAL GOVERNMENT AREA CITY OF MAROONDAH CLIENT CLIENT PROJECT MANAGER / CONTACT TOM DOBSON MAROONDAH CITY COUNCIL	DETAILED DESIGN CAR PARK UPGRADE WORKS NORWOOD RESERVE, RINGWOOD NORTH GENERAL LAYOUT PLAN	PROJECT No. PC21030 SHEET No. 06 OF 28 VERSION 04 DWG No. PC21030-06-04
04 DETAILED DESIGN - ISSUED FOR REVIEW 03 DETAILED DESIGN - ISSUED FOR REVIEW 02 DETAILED DESIGN - ISSUED FOR REVIEW 01 FUNCTIONAL DESIGN - ISSUED FOR REVIEW 00 FUNCTIONAL DESIGN - ISSUED FOR REVIEW VER DESCRIPTION	14-06-2022 31-05-2022 12-05-2022 02-05-2022 10-11-2021 DATE						

LEGEND

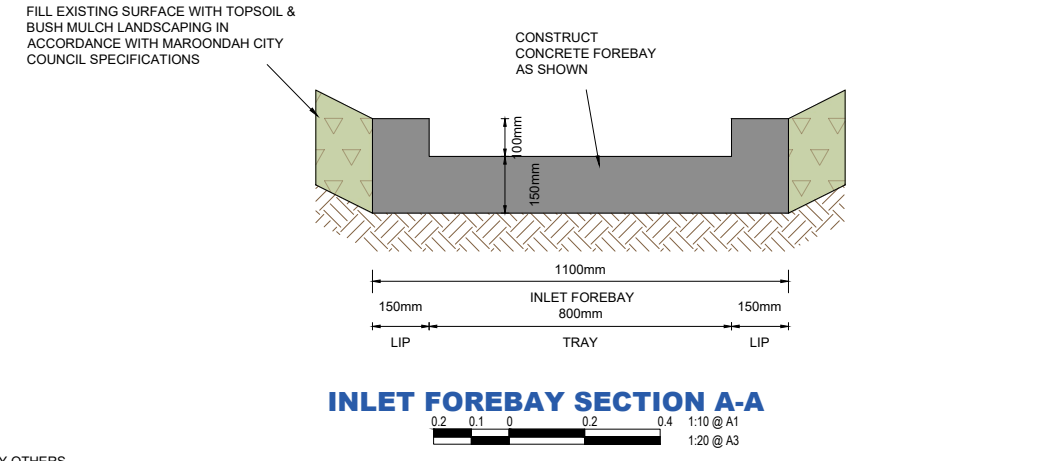
FULL DEPTH FLEXIBLE ASPHALT PAVEMENT - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101	TOPSOIL & BUSH MULCH REINSTATEMENT - REINSTATED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL SPECIFICATIONS	PROVIDE 50 - 150mm DIAMETER GRADED ROCK INVERT / CHANNEL ON A BASE OF FINE CRUSHED ROCK	REMOVE EXISTING TREE
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125mm THICK SL72 REINFORCED CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401	NEW DRAINAGE PIT WITH PIT NUMBER AND PIPE	WSUD SWALE VEGETATION BY OTHERS	PROPOSED PAVEMENT GRADE
CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-406	BRICK PAVERS TO BE REMOVED, CLEANED AND REINSTATED AS REQUIRED	EX W - EXISTING WATER	EXISTING CONTOUR MAJOR (1.0m)
TOPSOIL & SEED REINSTATEMENT - REINSTATED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL SPECIFICATIONS	150mm WIDE ROUND 'DOME TOP' WOODEN BOLLARDS - INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL LANDSCAPING GUIDELINES	EX G - EXISTING GAS	EXISTING CONTOUR MINOR (0.2m)
	ESTIMATED FILL BATTER EXTENT	EX S - EXISTING SEWER	FINISHED SURFACE CONTOUR MAJOR (1.0m)
	ESTIMATED CUT BATTER EXTENT	EX T - EXISTING TELECOMMUNICATIONS	FINISHED SURFACE CONTOUR MINOR (0.2m)
	EXISTING ASPHALT PAVEMENT TO BE SAWCUT	EX E - EXISTING UNDERGROUND ELECTRICITY	
		EX D - EXISTING DRAINAGE PIPE	
		REMOVE/DECOMMISSION EXISTING DRAINAGE PIPE	



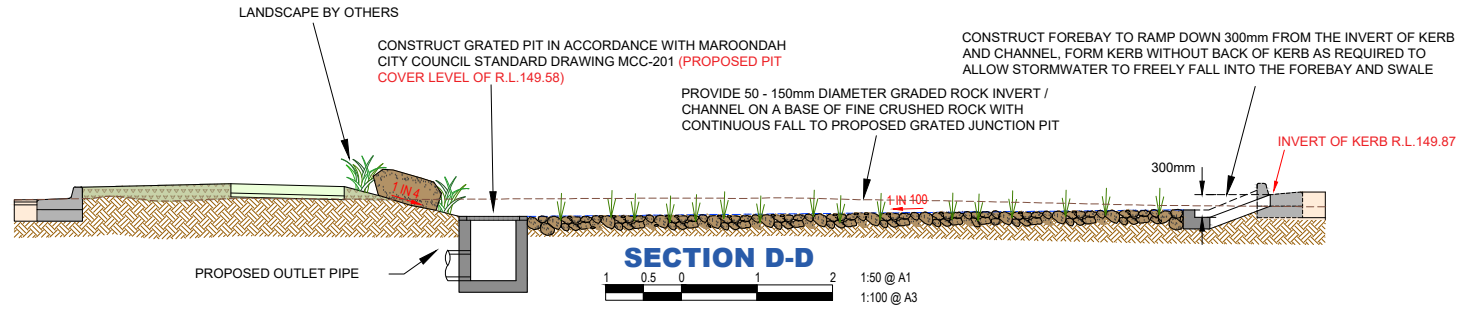
WATER SENSITIVE URBAN DESIGN (WSUD) PLAN



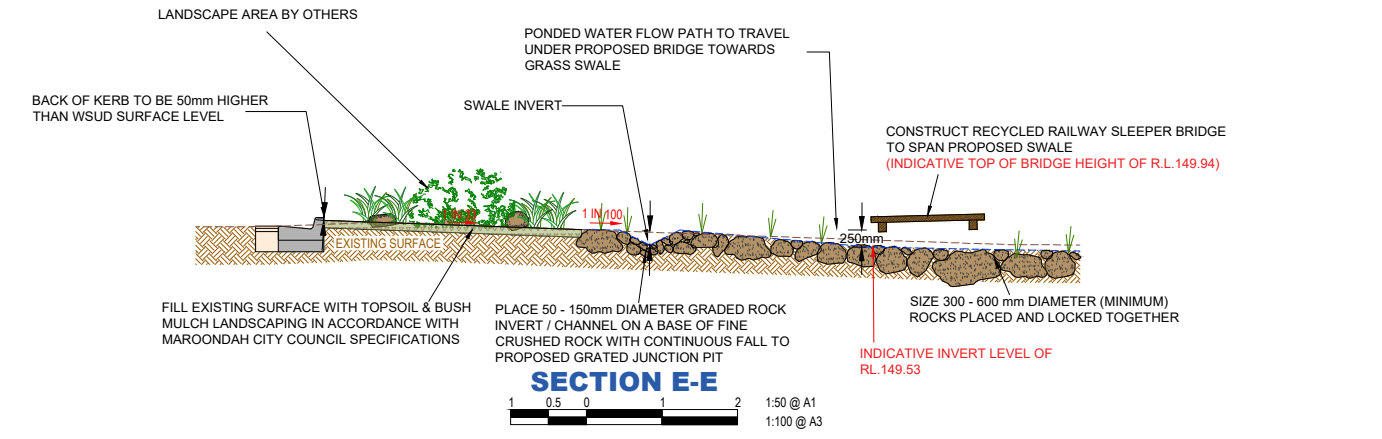
INLET FOREBAY SECTION



INLET FOREBAY SECTION A-A



SECTION D-D



SECTION E-E

VER	DESCRIPTION	DATE
04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
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CIVIL ENGINEERING DESIGN: JUSTIN SIMS
TECHNICAL PEER REVIEW: LUKE WHITFIELD
REGISTERED & CHARTERED PROFESSIONAL ENGINEER: CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE: AS SHOWN @ A1
HEIGHT DATUM: AHD
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SURVEY DATE: 01-10-2021
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LOCAL GOVERNMENT AREA: **CITY OF MAROONDAH**

CLIENT:

CLIENT PROJECT MANAGER / CONTACT: TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

CAR PARK UPGRADE WORKS

NORWOOD RESERVE, RINGWOOD NORTH

WATER SENSITIVE URBAN DESIGN (WSUD) PLAN & TYPICAL SECTIONS D-D & E-E

PROJECT No. PC21030
SHEET No. 07 OF 28
VERSION 04
DWG No. PC21030-07-04

LEGEND

- CURVE CURVE SETOUT LABEL
- COORDINATE POINT

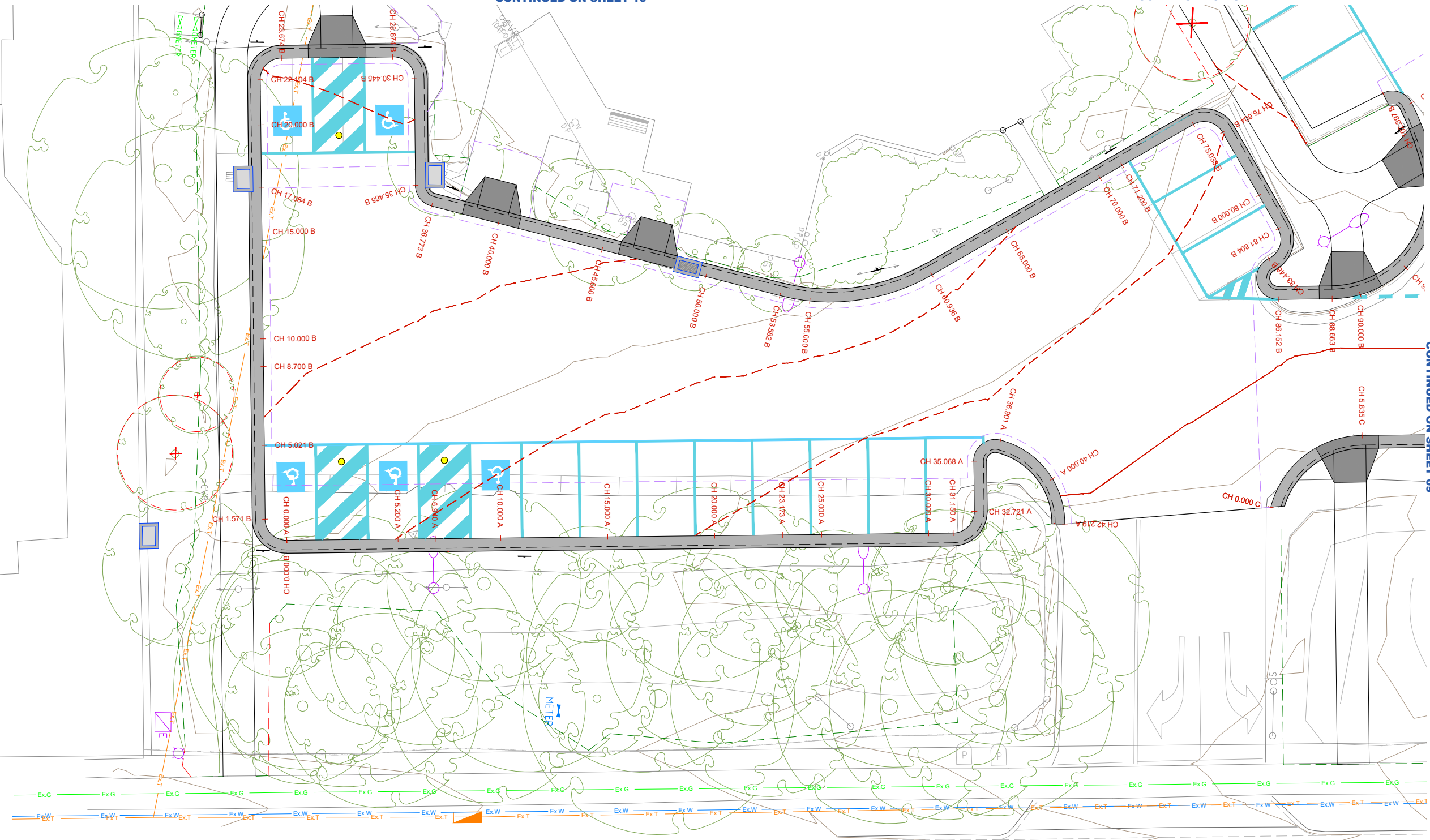


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CONTINUED ON SHEET 10

CONTINUED ON SHEET 11

CONTINUED ON SHEET 09



SURVEY SETOUT DETAILS TO BE PROVIDED IN FUTURE REVISION

SURVEY SETOUT PLAN



04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
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NORWOOD RESERVE, RINGWOOD NORTH

SURVEY SETOUT PLAN

PROJECT No.
PC21030

SHEET No.
08 OF 28

VERSION
04

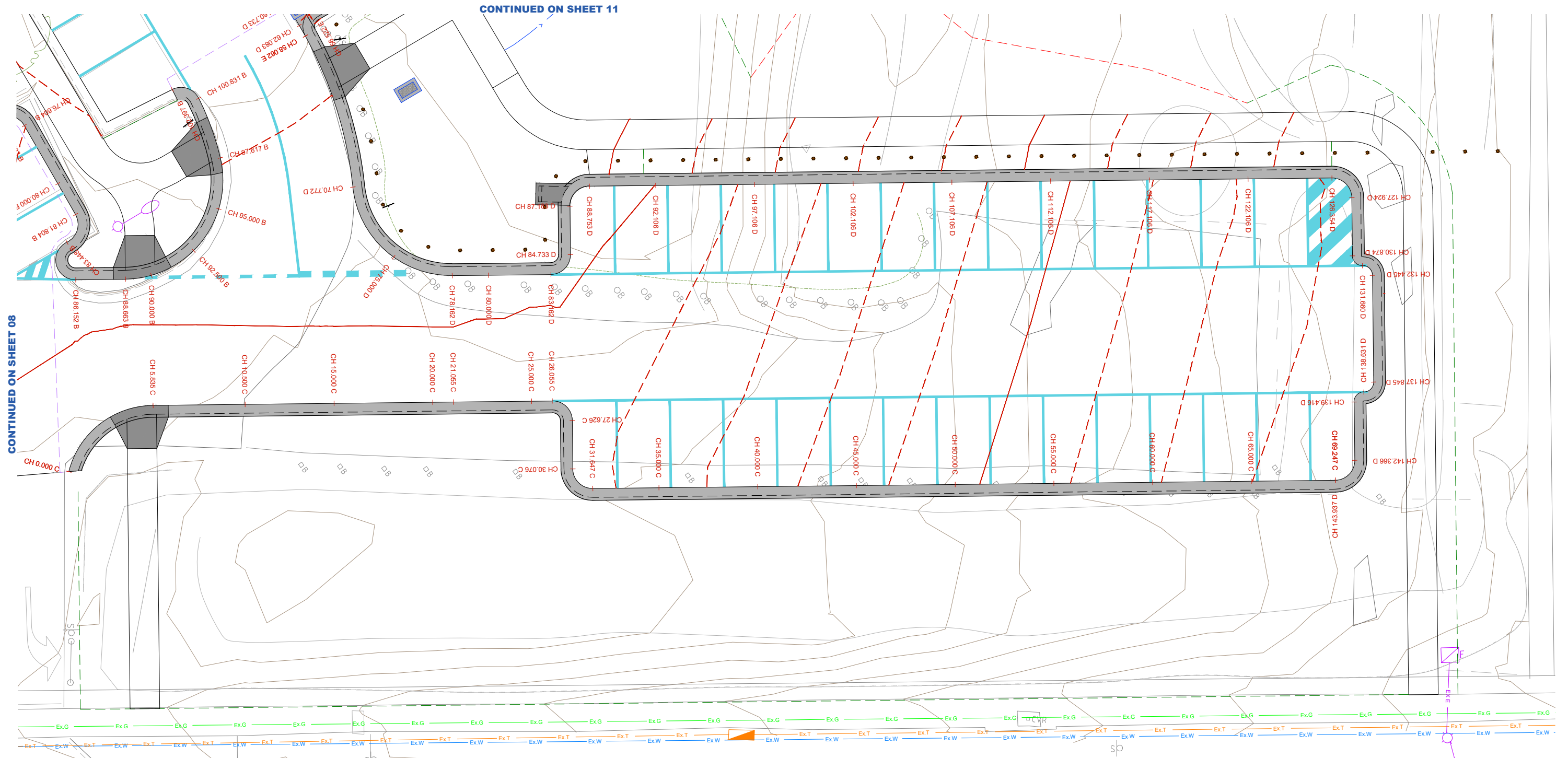
DWG No.
PC21030-08-04

LEGEND

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SURVEYS SETOUT PLAN



04	03	02	01	00
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SURVEY SETOUT PLAN

PROJECT No.
PC21030

SHEET No.
09 OF 28

VERSION
04

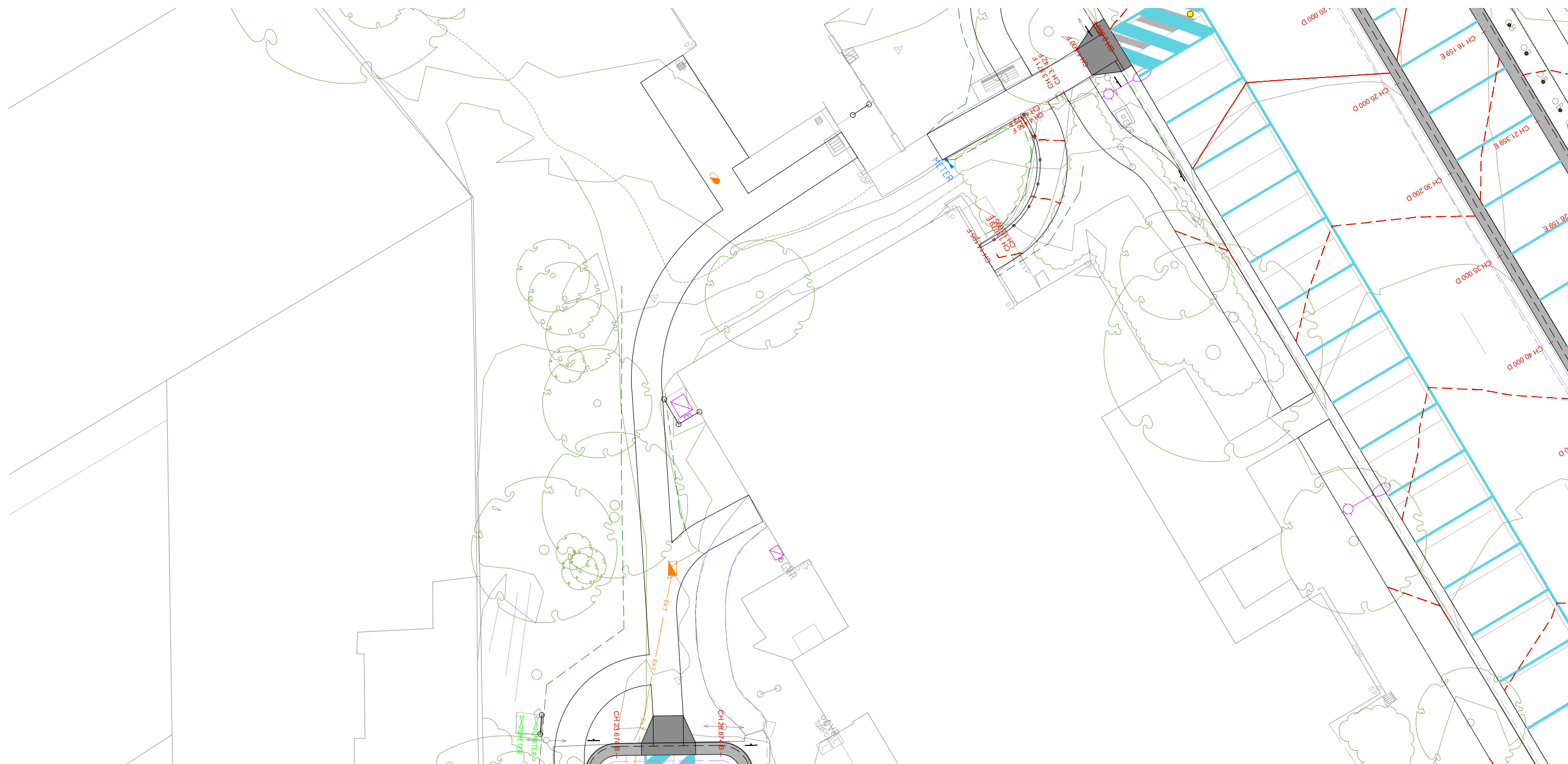
DWG No.
PC21030-09-04

LEGEND

- CURVE CURVE SETOUT LABEL
- 19 COORDINATE POINT



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CONTINUED ON SHEET 08

SURVEY SETOUT PLAN



SURVEY SETOUT DETAILS TO BE PROVIDED IN FUTURE REVISION

CONTINUED ON SHEET 11

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TECHNICAL PEER REVIEW: LUKE WHITFIELD
 REGISTERED & CHARTERED PROFESSIONAL ENGINEER

CHRIS PROCTOR

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CAR PARK UPGRADE WORKS
 NORWOOD RESERVE, RINGWOOD NORTH

SURVEY SETOUT PLAN

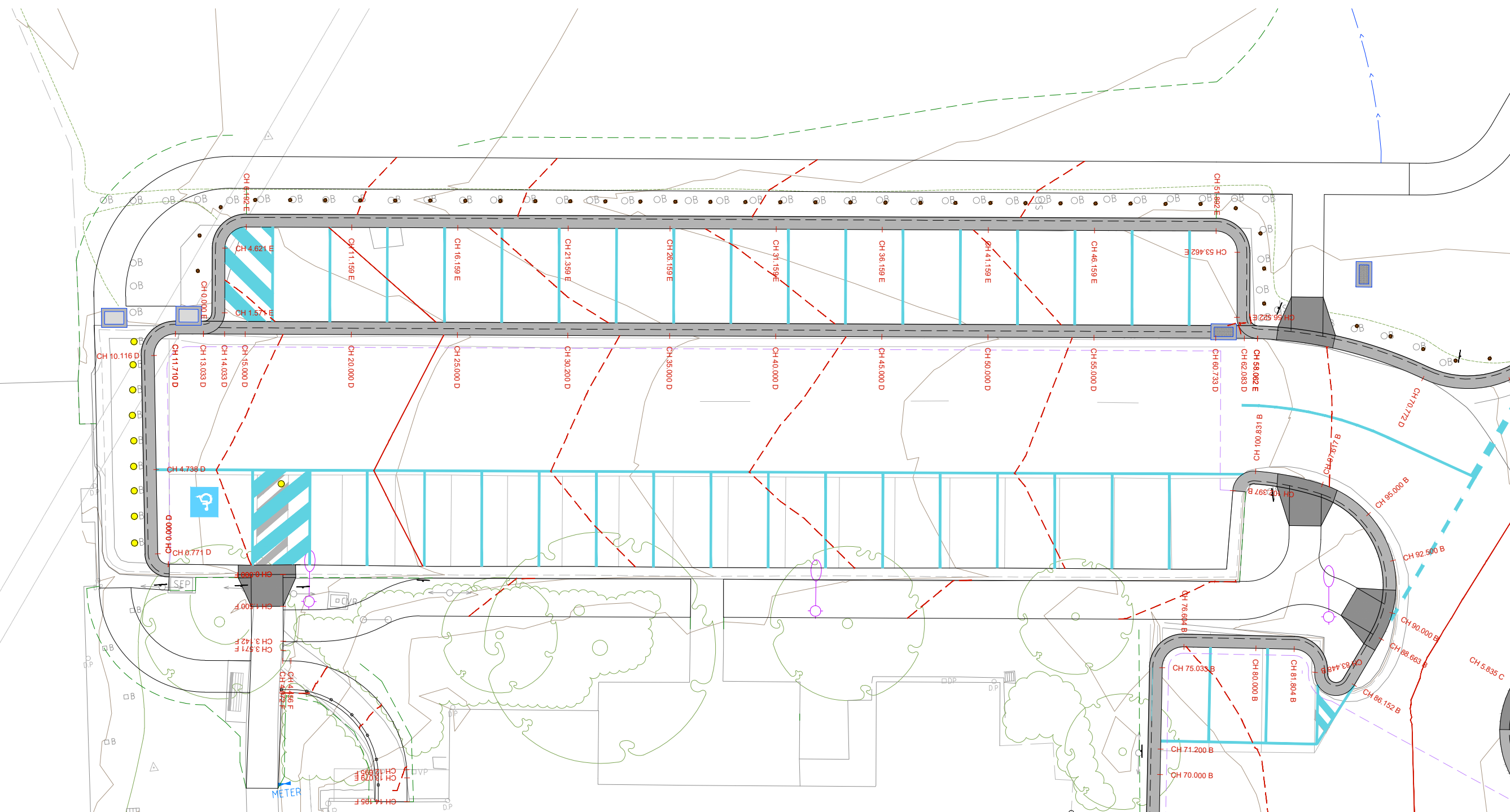
PROJECT No. PC21030
 SHEET No. 10 OF 28
 VERSION 04
 DWG No. PC21030-10-04

LEGEND

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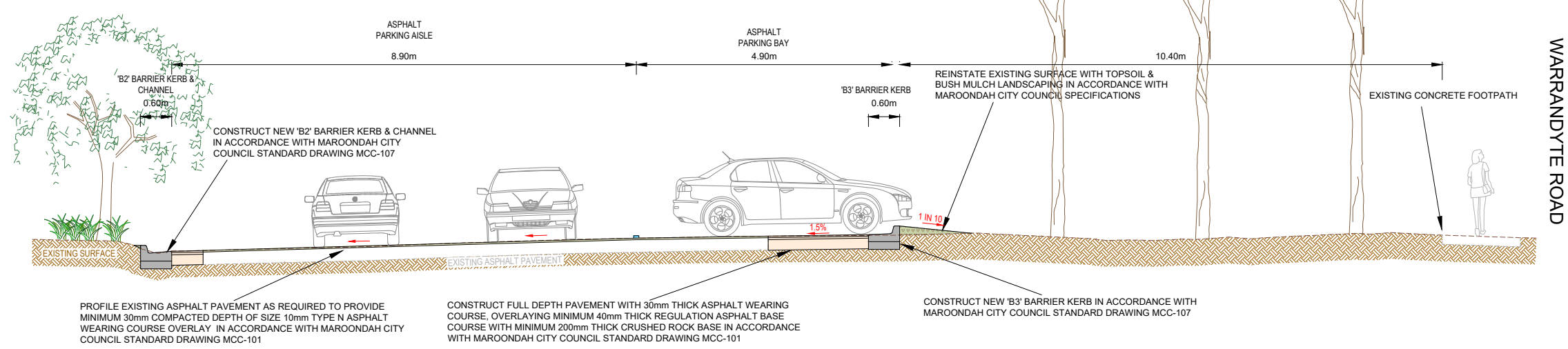
DETAILED DESIGN
CAR PARK UPGRADE WORKS
NORWOOD RESERVE, RINGWOOD NORTH

SURVEY SETOUT PLAN

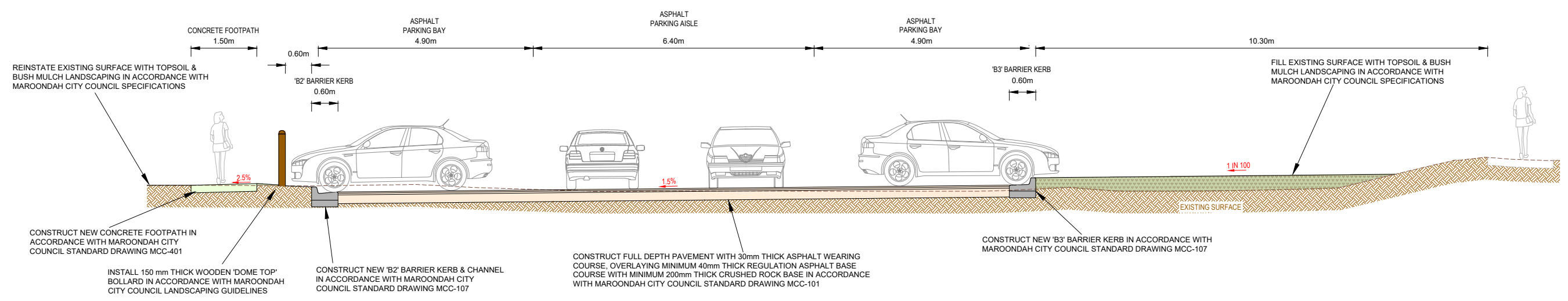
PROJECT No. PC21030
SHEET No. 11 OF 28
VERSION 04
DWG No. PC21030 -11 - 04



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SECTION A-A



SECTION B-B



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SUITE 9, 12 MAROONDAH HWY, RINGWOOD VIC 31134
PO BOX 164, RINGWOOD VIC 31134
P: (03) 8644 6834
E: info@procivil.com.au
www.procivil.com.au

CIVIL ENGINEERING DESIGN
JUSTIN SIMS
REGISTERED & CHARTERED PROFESSIONAL ENGINEER
CHRIS PROCTOR

TECHNICAL PEER REVIEW
LUKE WHITFIELD

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE
AS SHOWN @ A1

HEIGHT DATUM
AHD

COORDINATE DATUM
MGA 94 ZONE 55

SURVEY DATE
01-10-2021

AERIAL IMAGE DATE
01-09-2021

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

CAR PARK UPGRADE WORKS

NORWOOD RESERVE, RINGWOOD NORTH

SECTIONS A-A & B-B

PROJECT No.
PC21030

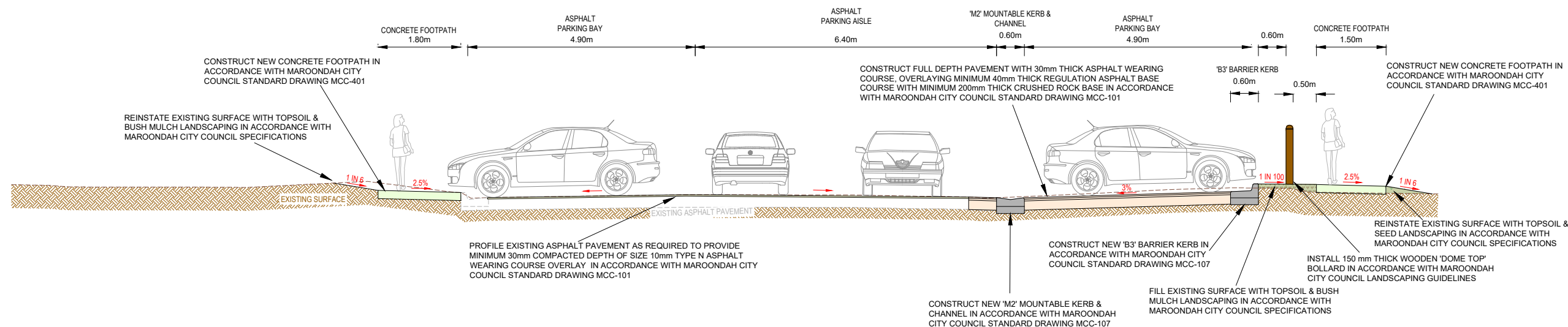
SHEET No.
12 OF 28

VERSION
04

DWG No.
PC21030 -12 - 04



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.



SECTION C-C



04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
03	DETAILED DESIGN - ISSUED FOR REVIEW	31-05-2022
02	DETAILED DESIGN - ISSUED FOR REVIEW	12-05-2022
01	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	02-05-2022
00	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	10-11-2021
VER	DESCRIPTION	DATE

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CIVIL ENGINEERING DESIGN: JUSTIN SIMS
 TECHNICAL PEER REVIEW: LUKE WHITFIELD

REGISTERED & CHARTERED PROFESSIONAL ENGINEER: CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE: AS SHOWN @ A1

HEIGHT DATUM: AHD

COORDINATE DATUM: MGA 94 ZONE 55

SURVEY DATE: 01-10-2021

AERIAL IMAGE DATE: 01-09-2021

LOCAL GOVERNMENT AREA: **CITY OF MAROONDAH**

CLIENT:

CLIENT PROJECT MANAGER / CONTACT: TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

CAR PARK UPGRADE WORKS

NORWOOD RESERVE, RINGWOOD NORTH

SECTION C-C

PROJECT No. PC21030

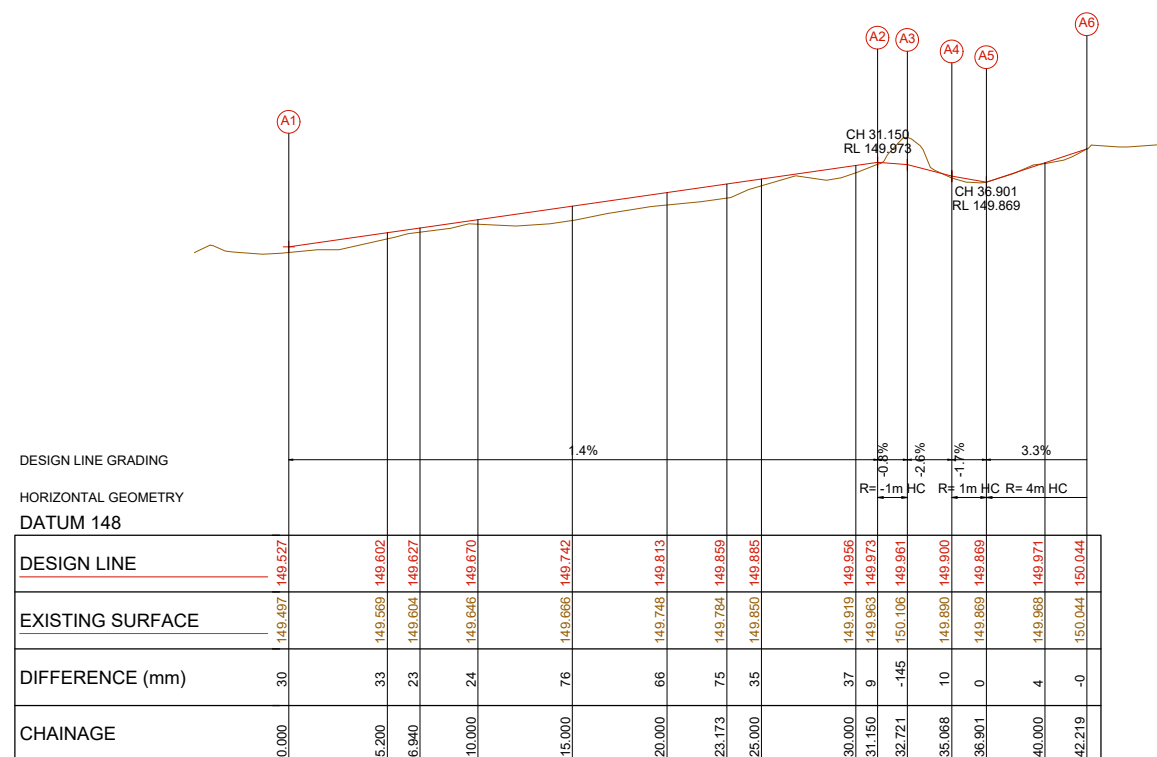
SHEET No. 13 OF 28

VERSION 04

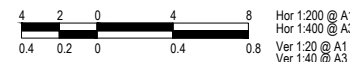
DWG No. PC21030 -13 - 04



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LONGITUDINAL SECTIONS - LIP OF KERB 'A'



VER	DESCRIPTION	DATE
04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
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01	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	02-05-2022
00	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	10-11-2021

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ORIENTATION

OR AS SHOWN

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 COORDINATE DATUM: MGA 94 ZONE 55
 SURVEY DATE: 01-10-2021
 AERIAL IMAGE DATE: 01-09-2021

LOCAL GOVERNMENT AREA: **CITY OF MAROONDAH**

CLIENT PROJECT MANAGER / CONTACT: TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

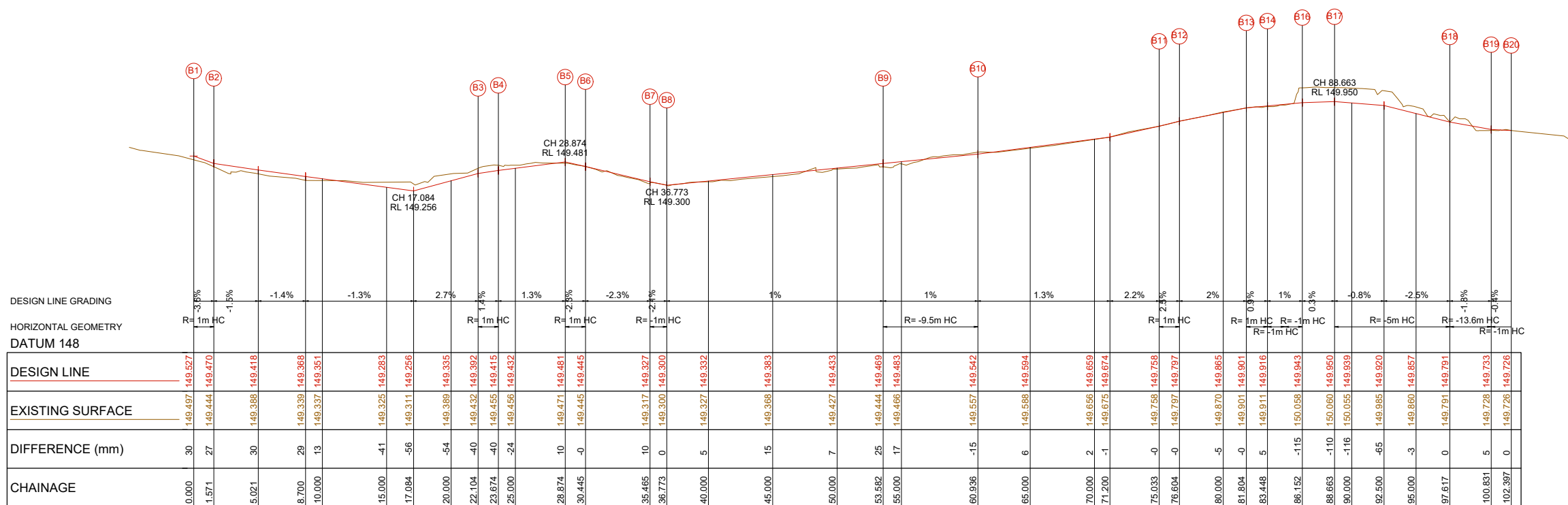
CAR PARK UPGRADE WORKS
 NORWOOD RESERVE, RINGWOOD NORTH

LONGITUDINAL SECTION - LIP OF KERB 'A'

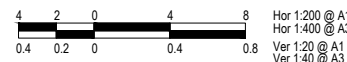
PROJECT No.	PC21030
SHEET No.	14 OF 28
VERSION	04
DWG No.	PC21030 -14 - 04



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LONGITUDINAL SECTION - LIP OF KERB 'B'



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ORIENTATION

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ORIGINAL SCALE & SHEET SIZE: AS SHOWN @ A1
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 COORDINATE DATUM: MGA 94 ZONE 55
 SURVEY DATE: 01-10-2021
 AERIAL IMAGE DATE: 01-09-2021

LOCAL GOVERNMENT AREA: **CITY OF MAROONDAH**

CLIENT PROJECT MANAGER / CONTACT: TOM DOBSON | MAROONDAH CITY COUNCIL

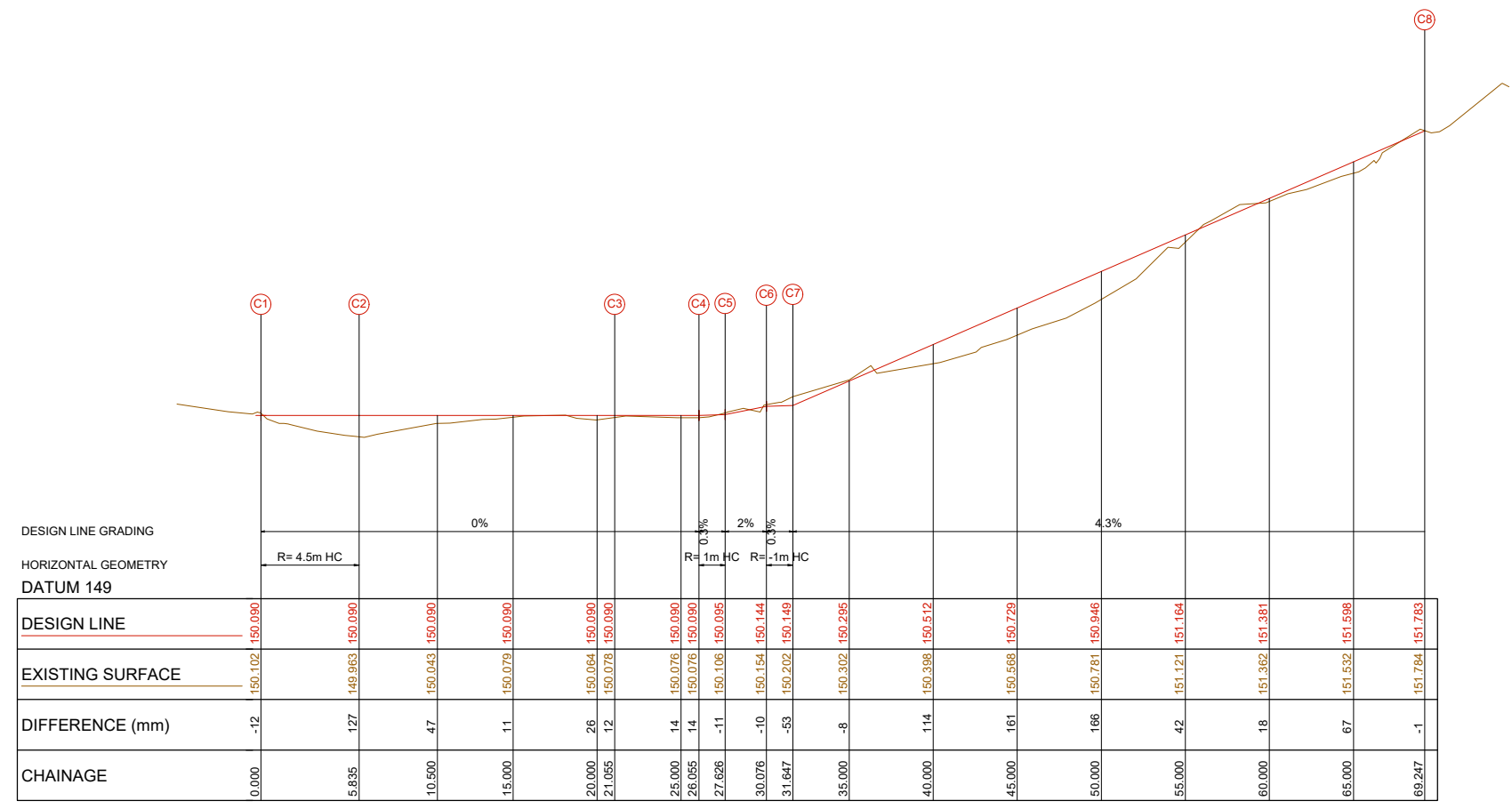
DETAILED DESIGN
CAR PARK UPGRADE WORKS
 NORWOOD RESERVE, RINGWOOD NORTH

LONGITUDINAL SECTION - LIP OF KERB 'B'

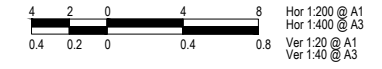
PROJECT No.	PC21030
SHEET No.	15 OF 28
VERSION	04
DWG No.	PC21030-15-04



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LONGITUDINAL SECTION - LIP OF KERB 'C'



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 CHRIS PROCTOR

ORIENTATION

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ORIGINAL SCALE & SHEET SIZE: AS SHOWN @ A1
 HEIGHT DATUM: AHD
 COORDINATE DATUM: MGA 94 ZONE 55
 SURVEY DATE: 01-10-2021
 AERIAL IMAGE DATE: 01-09-2021

LOCAL GOVERNMENT AREA: **CITY OF MAROONDAH**

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CLIENT PROJECT MANAGER / CONTACT: TOM DOBSON | MAROONDAH CITY COUNCIL

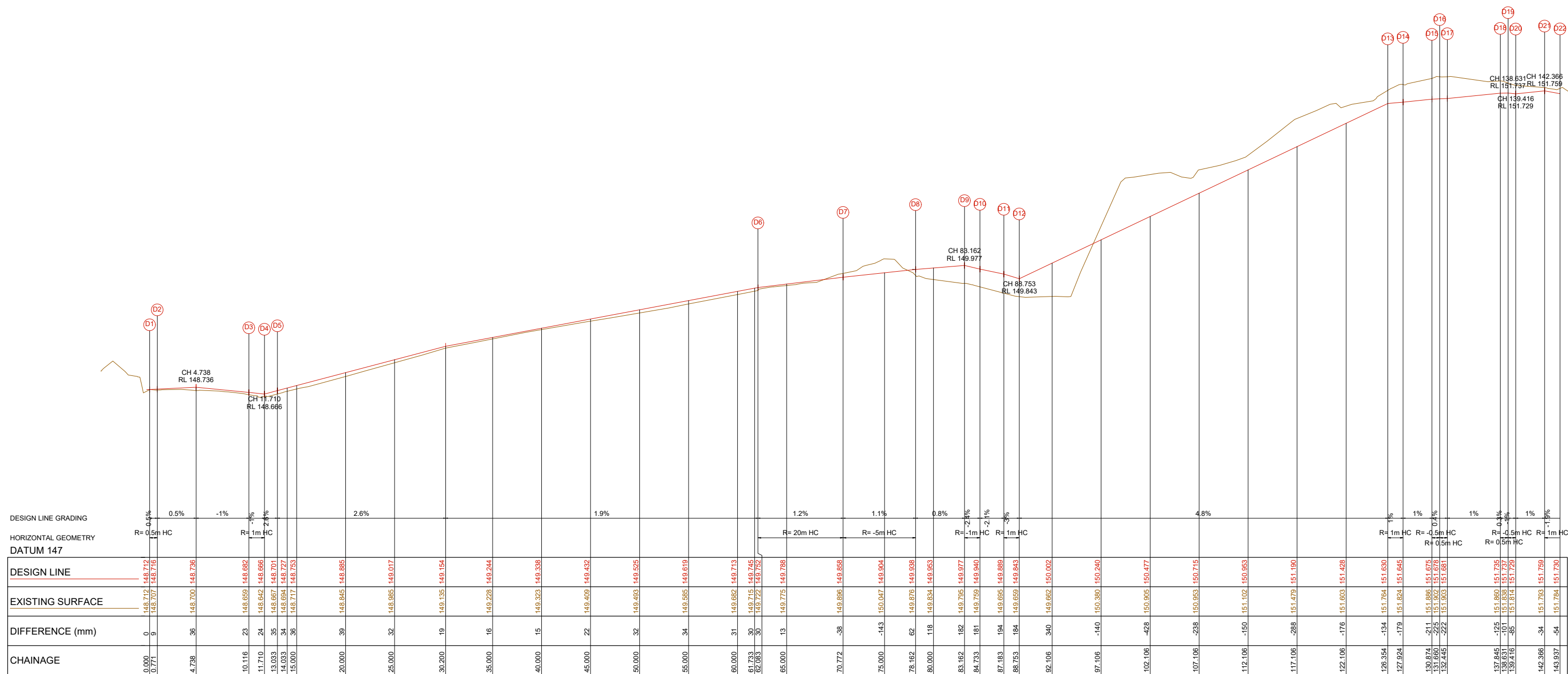
DETAILED DESIGN
CAR PARK UPGRADE WORKS
 NORWOOD RESERVE, RINGWOOD NORTH

LONGITUDINAL SECTION - LIP OF KERB 'C'

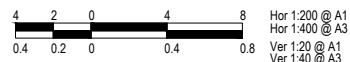
PROJECT No. PC21030
 SHEET No. 16 OF 28
 VERSION 04
 DWG No. PC21030 -16 - 04



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LONGITUDINAL SECTION - LIP OF KERB 'D'



VER	DESCRIPTION	DATE
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OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE
 AS SHOWN @ A1

HEIGHT DATUM
 AHD

COORDINATE DATUM
 MGA 94 ZONE 55

SURVEY DATE
 01-10-2021

AERIAL IMAGE DATE
 01-09-2021

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

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CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

CAR PARK UPGRADE WORKS

NORWOOD RESERVE, RINGWOOD NORTH

LONGITUDINAL SECTION - LIP OF KERB 'D'

PROJECT No.
PC21030

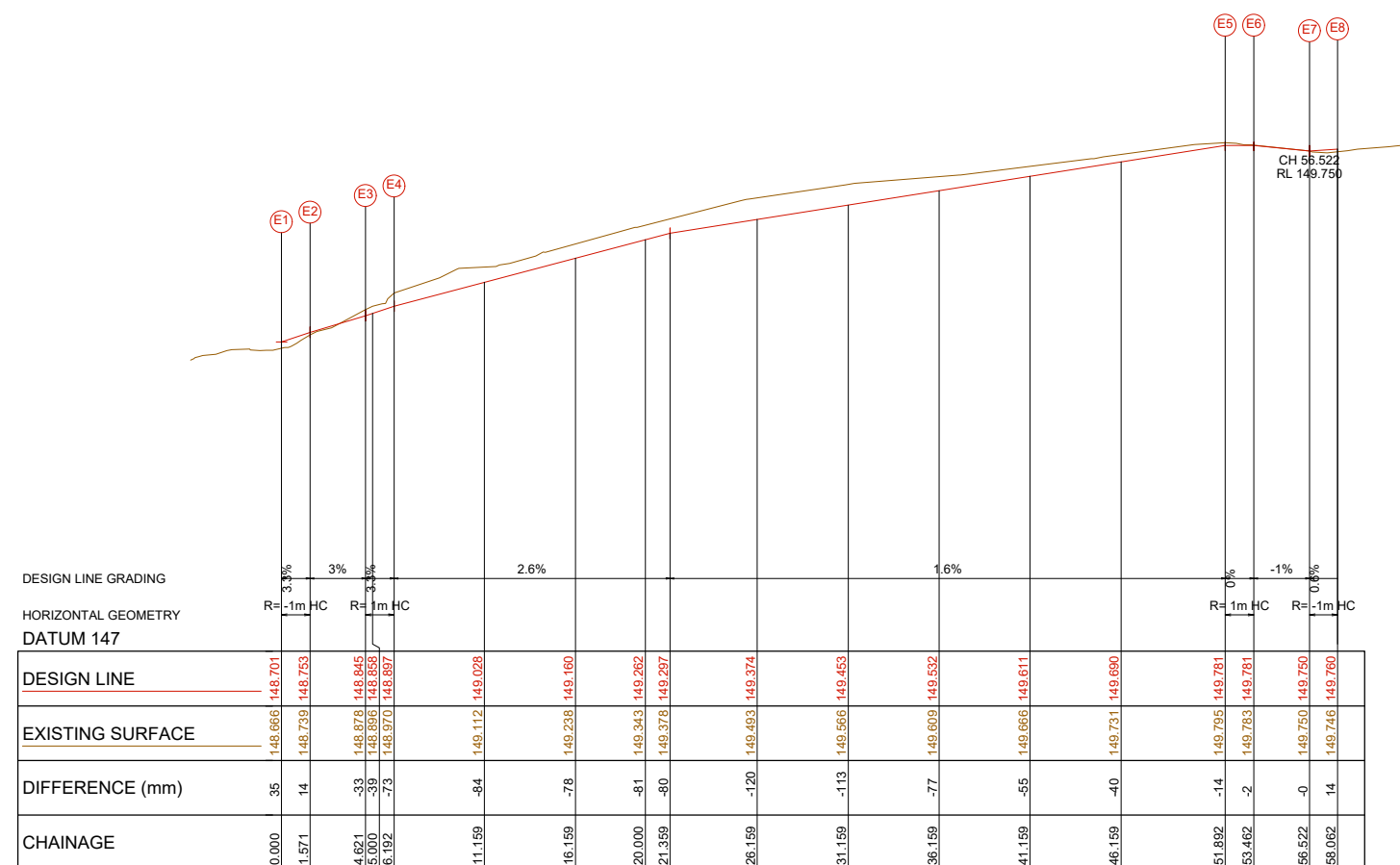
SHEET No.
17 OF 28

VERSION
04

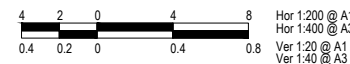
DWG No.
PC21030-17 - 04



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LONGITUDINAL SECTION - LIP OF KERB 'E'



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04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
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LONGITUDINAL SECTION - LIP OF KERB 'E'

PROJECT No.
PC21030

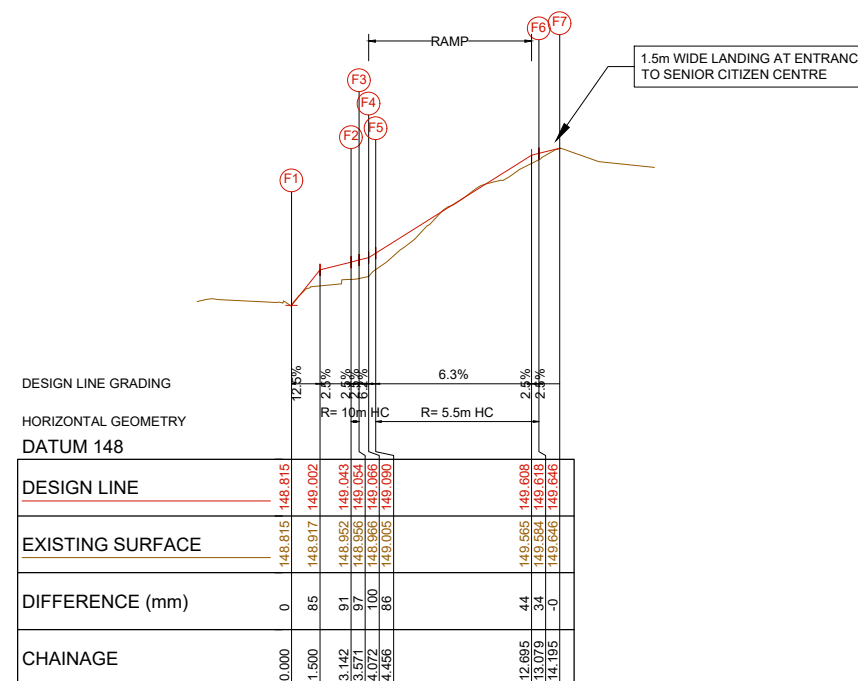
SHEET No.
18 OF 28

VERSION
04

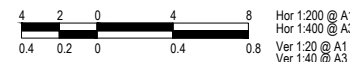
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LONGITUDINAL SECTION - FRONT OF FOOTPATH 'F'



VER	DESCRIPTION	DATE
04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
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 CHRIS PROCTOR

ORIENTATION

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ORIGINAL SCALE & SHEET SIZE
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 HEIGHT DATUM
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 COORDINATE DATUM
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LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

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DETAILED DESIGN

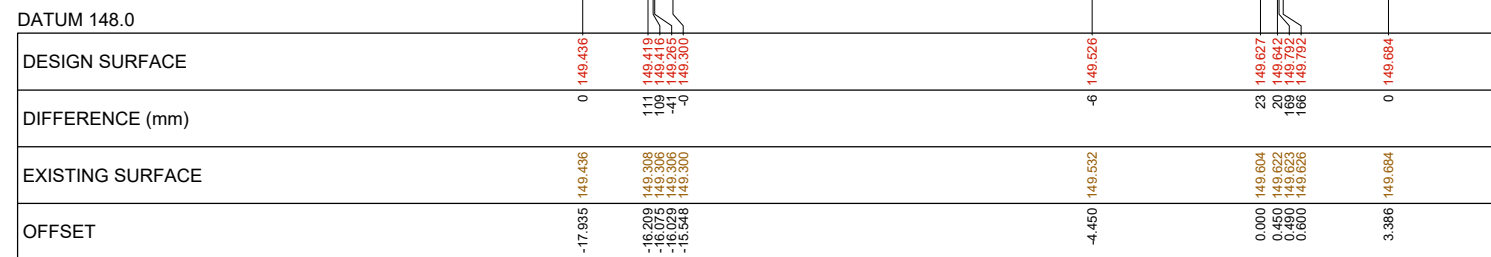
CAR PARK UPGRADE WORKS
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LONGITUDINAL SECTION - FRONT OF FOOTPATH 'F'

PROJECT No.
 PC21030
 SHEET No.
 19 OF 28
 VERSION
 04
 DWG No.
 PC21030 -19 - 04



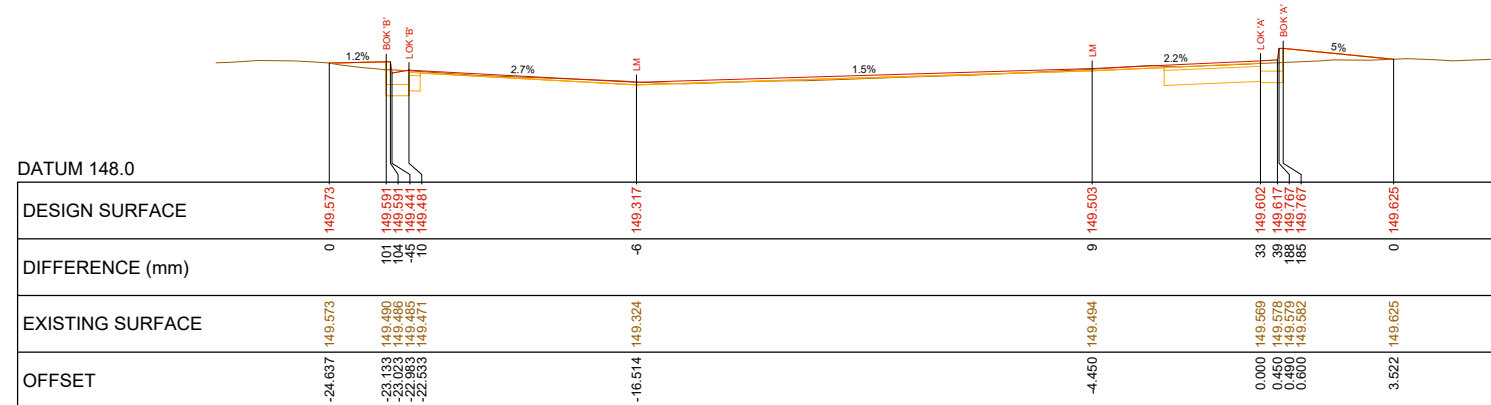
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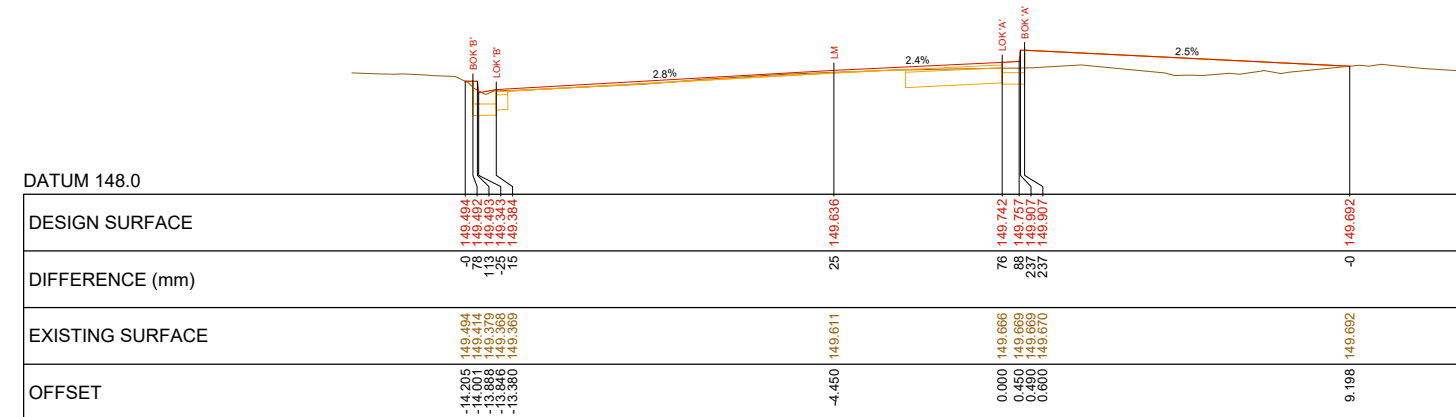
CH 6.940



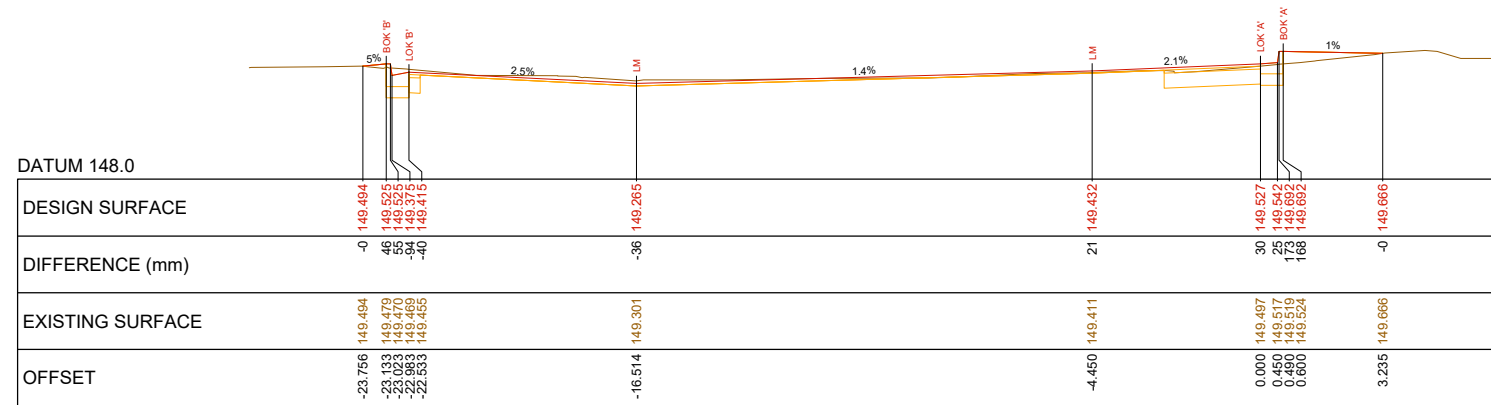
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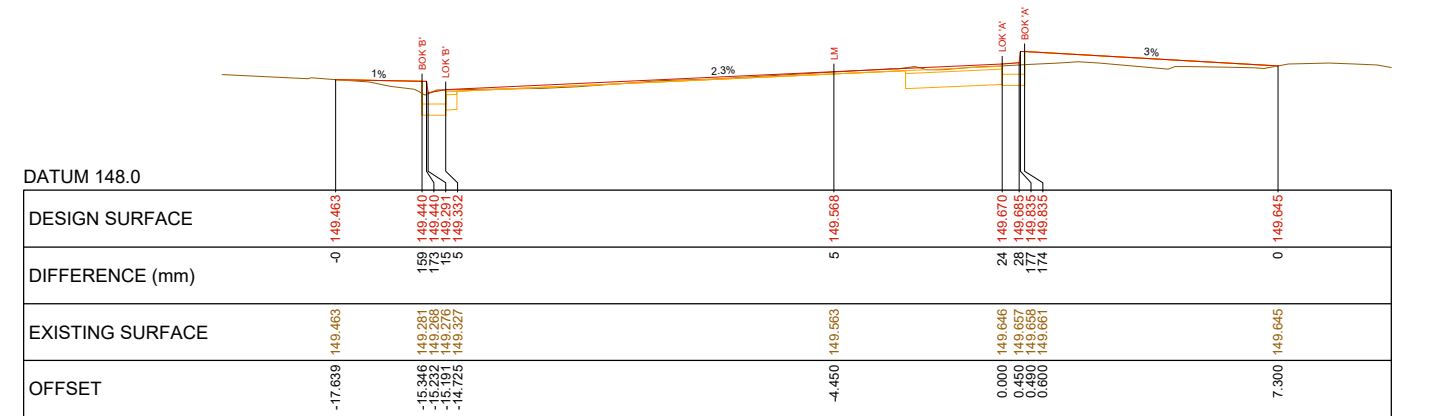
CH 5.200



CH 15.000



CH 0.000



CH 10.000

LM - LINE MARKING
LOK - LIP OF KERB
BOK - BACK OF KERB
FOFP - FRONT OF FOOTPATH
BOFP - BACK OF FOOTPATH

Ex.LOK - EXISTING LIP OF KERB
Ex.BOK - EXISTING BACK OF KERB

CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) LIP OF KERB 'A'



VER	DESCRIPTION	DATE
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CAR PARK UPGRADE WORKS

NORWOOD RESERVE, RINGWOOD NORTH

CROSS-SECTIONS - LIP OF KERB 'A' - CH 0.000 - CH 20.000

PROJECT No.	PC21030
SHEET No.	20 OF 28
VERSION	04
DWG No.	PC21030-20-04



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DATUM 149.0

DESIGN SURFACE	-13.456	149.660	149.660	149.652	149.501	149.538	149.841	149.956	150.036
DIFFERENCE (mm)	0	100	132	139	-14	44	37	70	0
EXISTING SURFACE	149.660	149.562	149.528	149.461	149.552	149.796	149.919	149.942	150.036
OFFSET	-13.456	-12.597	-12.425	-12.425	-11.915	-4.450	0.000	0.450	8.833

CH 30.000

DATUM 148.0

DESIGN SURFACE	-12.568	149.608	149.608	149.597	149.468	149.773	149.885	149.900	149.944
DIFFERENCE (mm)	0	111	136	143	14	49	35	33	-0
EXISTING SURFACE	149.608	149.487	149.461	149.451	149.474	149.724	149.850	149.868	149.944
OFFSET	-12.568	-11.479	-11.369	-11.329	-10.877	-4.450	0.000	0.450	9.164

CH 25.000

DATUM 148.0

DESIGN SURFACE	-12.031	149.580	149.578	149.478	149.469	149.748	149.859	149.874	149.907
DIFFERENCE (mm)	0	137	136	136	25	54	75	71	0
EXISTING SURFACE	149.580	149.441	149.442	149.423	149.444	149.694	149.784	149.803	149.907
OFFSET	-12.031	-11.803	-11.688	-11.648	-11.182	-4.450	0.000	0.450	9.441

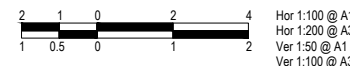
CH 23.173

DATUM 149.0

DESIGN SURFACE	-14.302	149.679	149.669	149.668	149.554	149.856	149.973	149.988	150.055
DIFFERENCE (mm)	0	107	139	140	144	39	9	2	-0
EXISTING SURFACE	149.679	149.572	149.528	149.524	149.556	149.817	149.963	149.990	150.055
OFFSET	-14.302	-13.242	-13.116	-12.924	-12.524	-4.450	0.000	0.450	8.863

CH 31.150

CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) LIP OF KERB 'A'



LM - LINE MARKING
LOK - LIP OF KERB
BOK - BACK OF KERB
FOFP - FRONT OF FOOTPATH
BOFP - BACK OF FOOTPATH

Ex.LOK - EXISTING LIP OF KERB
Ex.BOK - EXISTING BACK OF KERB

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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

CIVIL ENGINEERING DESIGN
JUSTIN SIMS

TECHNICAL PEER REVIEW
LUKE WHITFIELD

REGISTERED & CHARTERED PROFESSIONAL ENGINEER
CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE
AS SHOWN @ A1

HEIGHT DATUM
AHD

COORDINATE DATUM
MGA 94 ZONE 55

SURVEY DATE
01-10-2021

AERIAL IMAGE DATE
01-09-2021

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

CAR PARK UPGRADE WORKS

NORWOOD RESERVE, RINGWOOD NORTH

CROSS-SECTIONS - LIP OF KERB 'A' - CH 23.173 - CH 31.150

PROJECT No.
PC21030

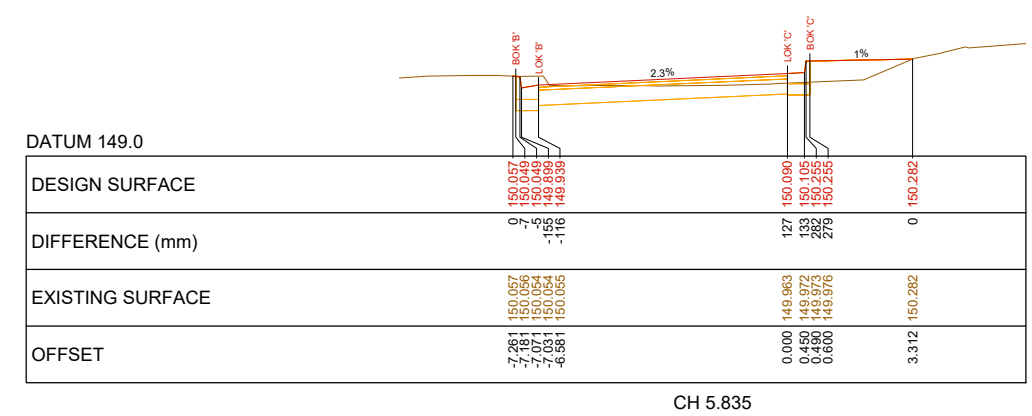
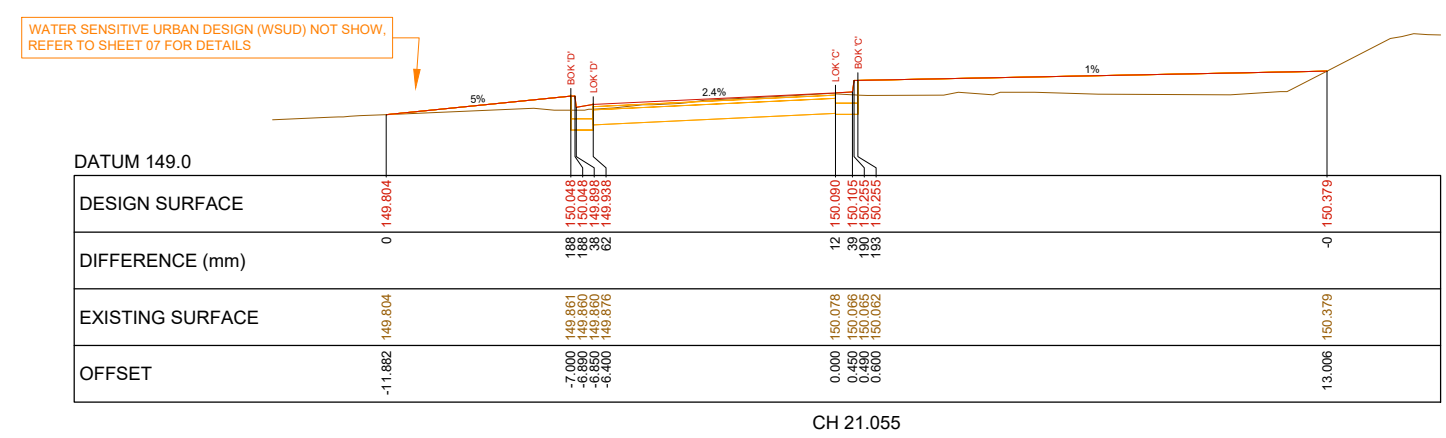
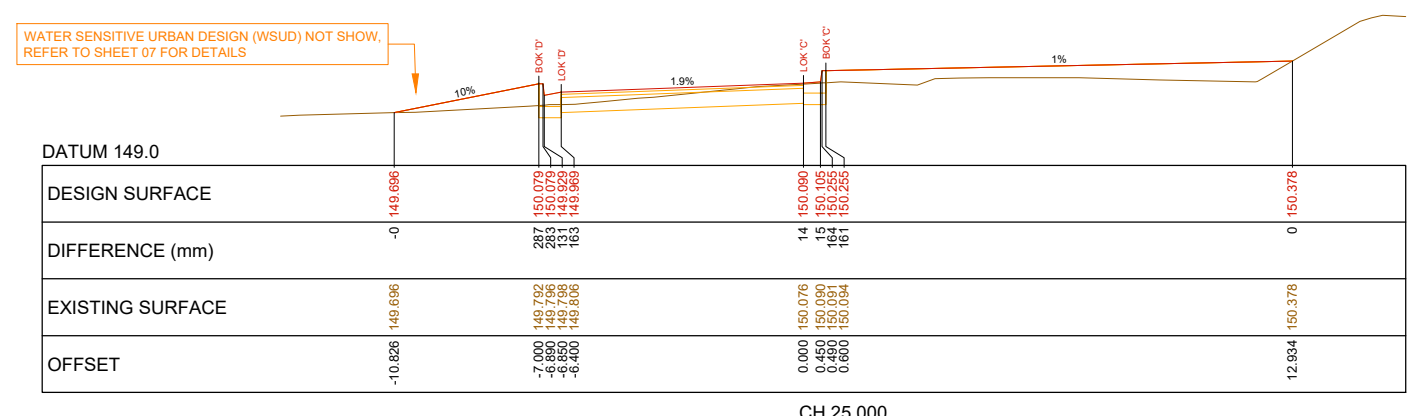
SHEET No.
21 OF 28

VERSION
04

DWG No.
PC21030 -21 - 04



WARNING
 BEWARE OF UNDERGROUND SERVICES
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CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) LIP OF KERB 'C'

LM - LINE MARKING
 LOK - LIP OF KERB
 BOK - BACK OF KERB
 FOFP - FRONT OF FOOTPATH
 BOFP - BACK OF FOOTPATH

Ex.LOK - EXISTING LIP OF KERB
 Ex.BOK - EXISTING BACK OF KERB



04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
03	DETAILED DESIGN - ISSUED FOR REVIEW	31-05-2022
02	DETAILED DESIGN - ISSUED FOR REVIEW	12-05-2022
01	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	02-05-2022
00	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	10-11-2021
VER	DESCRIPTION	DATE

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ORIENTATION

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ORIGINAL SCALE & SHEET SIZE
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SURVEY DATE
 01-10-2021

AERIAL IMAGE DATE
 01-09-2021

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

CAR PARK UPGRADE WORKS

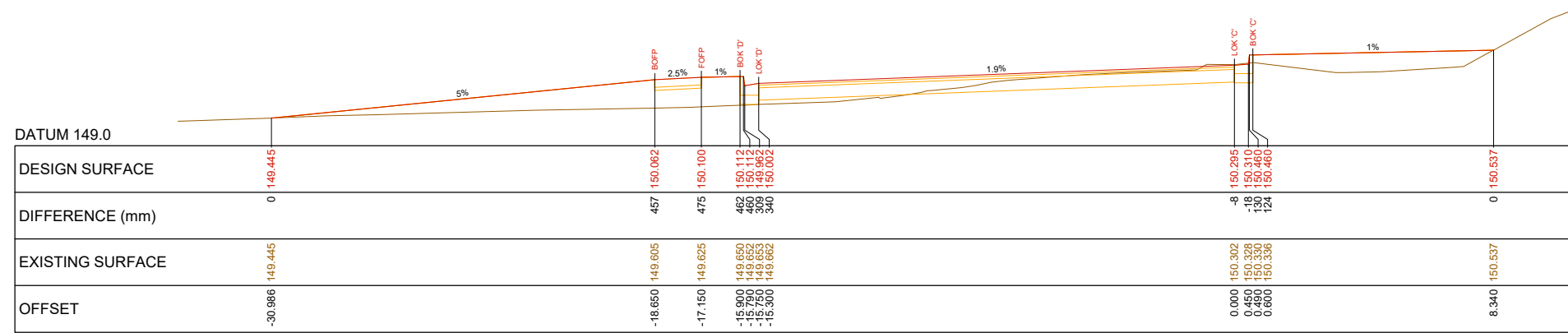
NORWOOD RESERVE, RINGWOOD NORTH

CROSS-SECTIONS - LIP OF KERB 'C' - CH 5.835 - CH 25.000

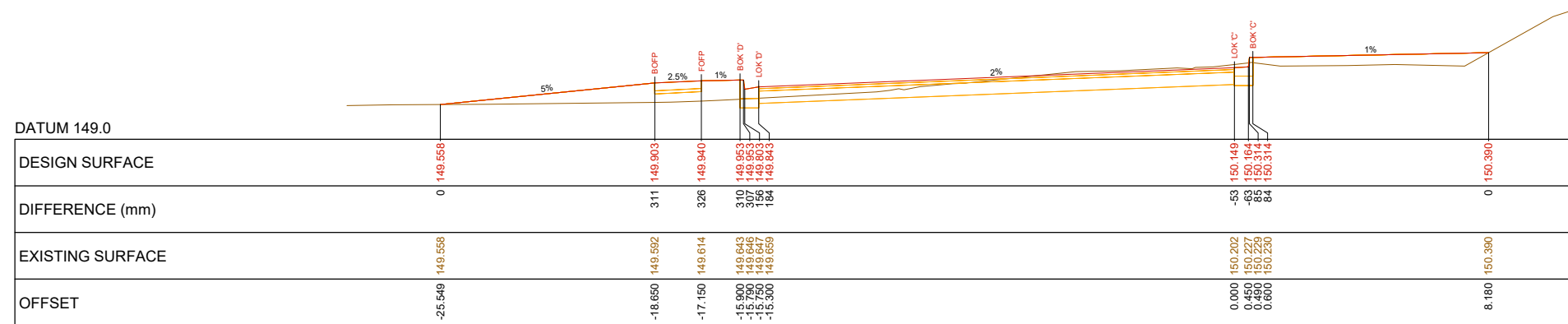
PROJECT No.	PC21030
SHEET No.	22 OF 28
VERSION	04
DWG No.	PC21030 -22 - 04



WARNING
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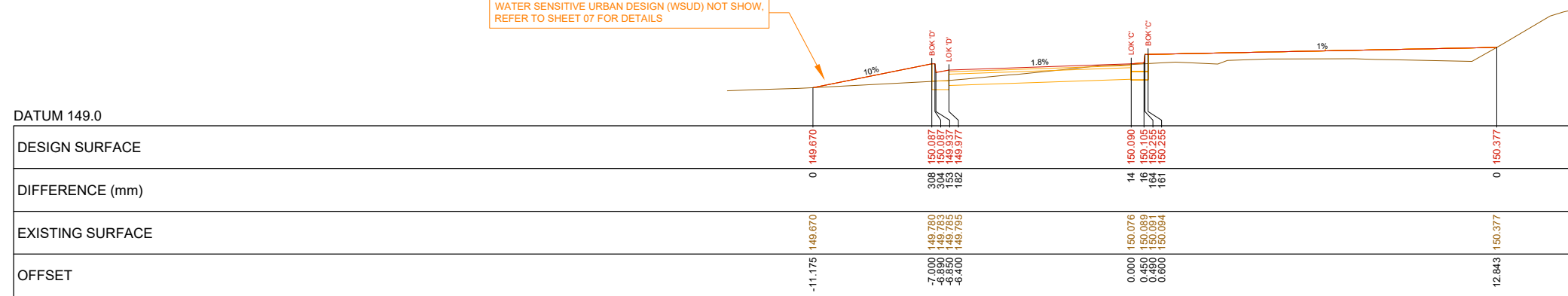


CH 35.000



CH 31.647

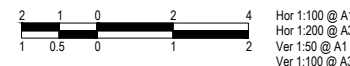
WATER SENSITIVE URBAN DESIGN (WSUD) NOT SHOW, REFER TO SHEET 07 FOR DETAILS



CH 26.055

LM - LINE MARKING
LOK - LIP OF KERB
BOK - BACK OF KERB
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CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) LIP OF KERB 'C'



VER	DESCRIPTION	DATE
04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
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LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

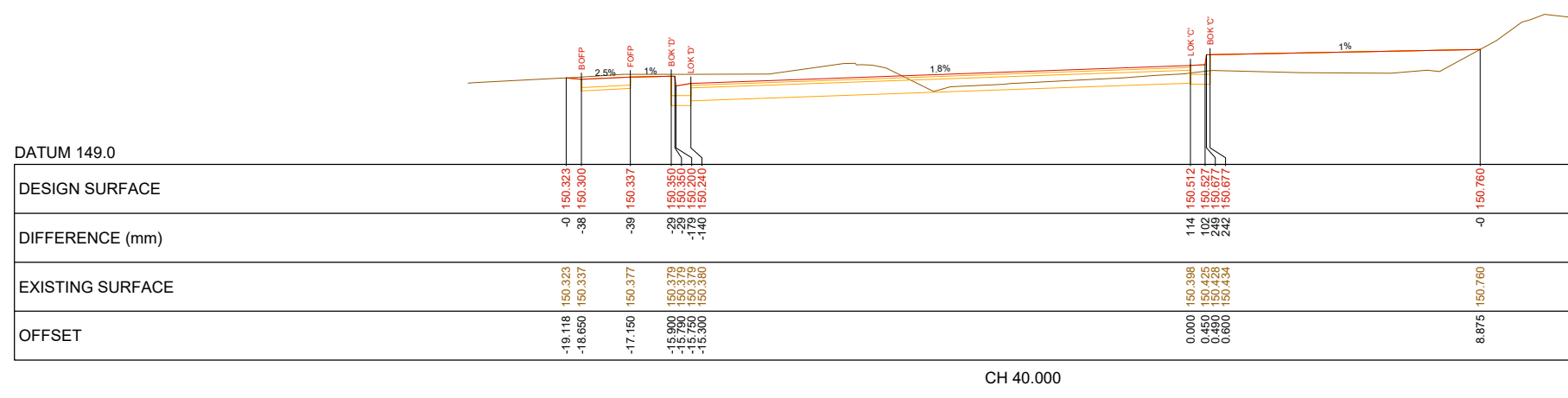
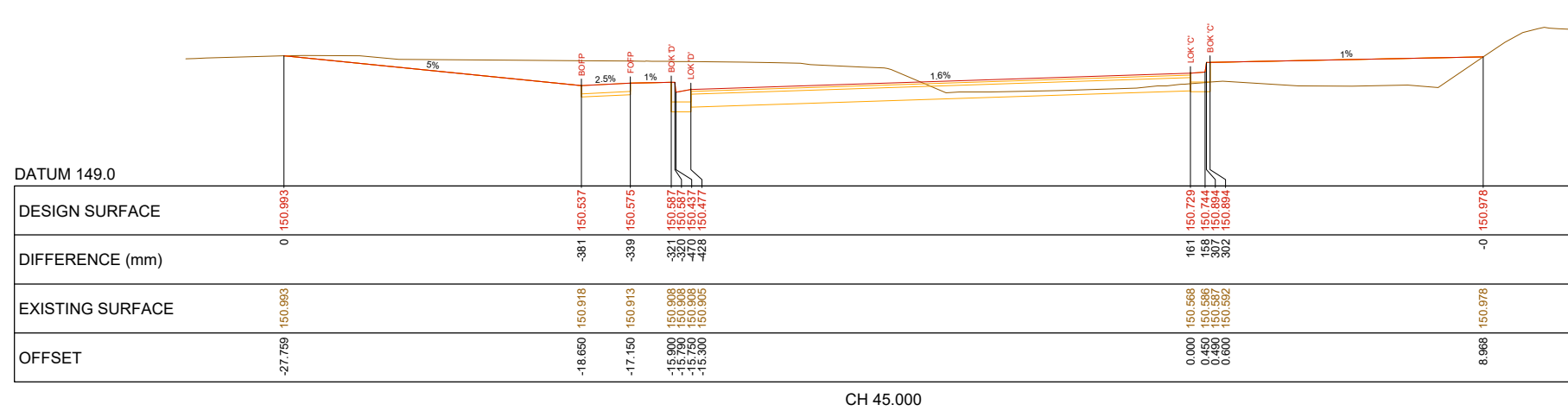
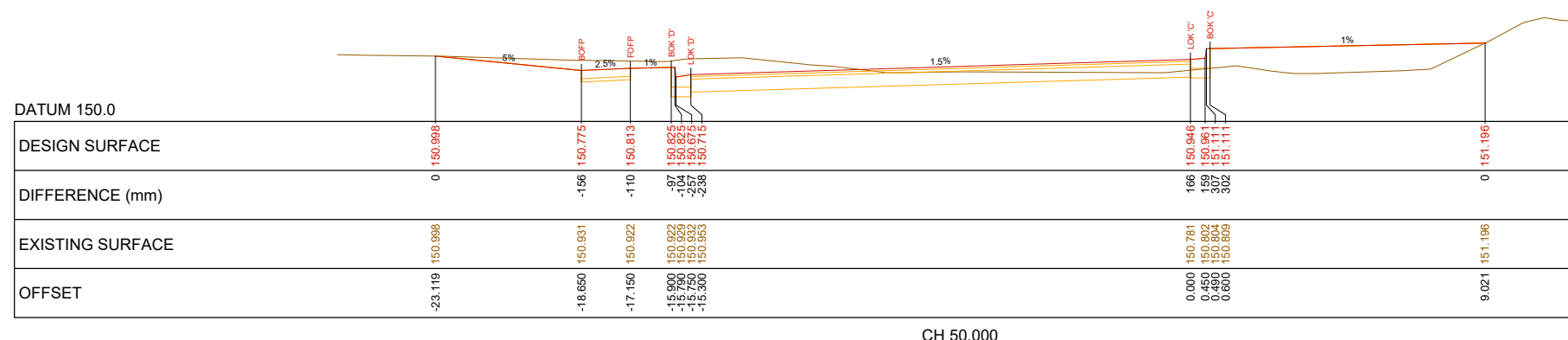
CAR PARK UPGRADE WORKS
NORWOOD RESERVE, RINGWOOD NORTH

CROSS-SECTIONS - LIP OF KERB 'C' - CH 26.055- CH 35.000

PROJECT No.	PC21030
SHEET No.	23 OF 28
VERSION	04
DWG No.	PC21030 -23 - 04

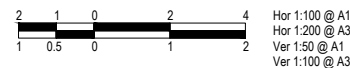


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MGA 94 ZONE 55
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01-09-2021

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

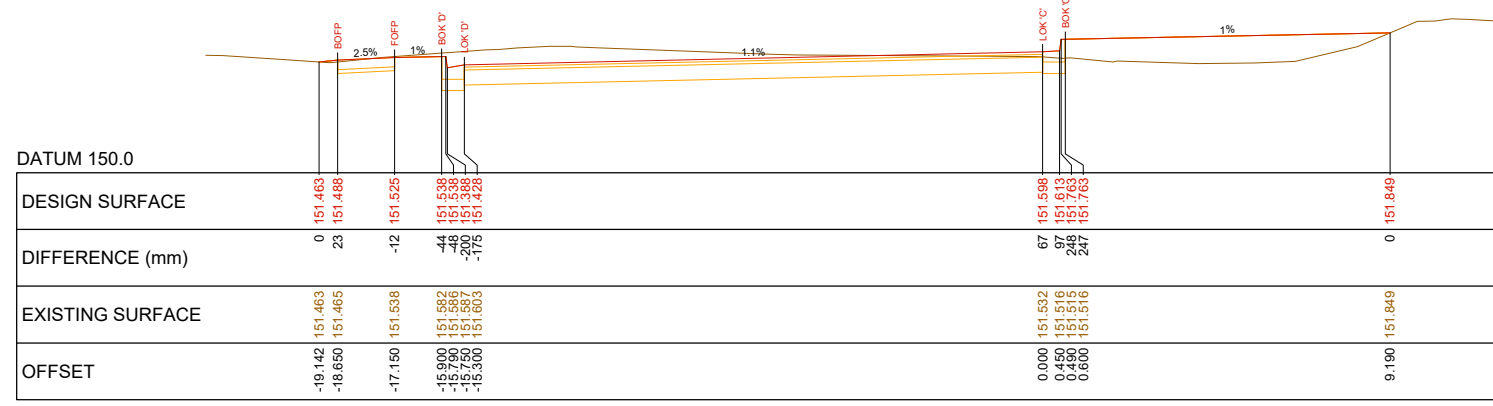
CAR PARK UPGRADE WORKS
NORWOOD RESERVE, RINGWOOD NORTH

CROSS-SECTIONS - LIP OF KERB 'C' - CH 40.000- CH 50.000

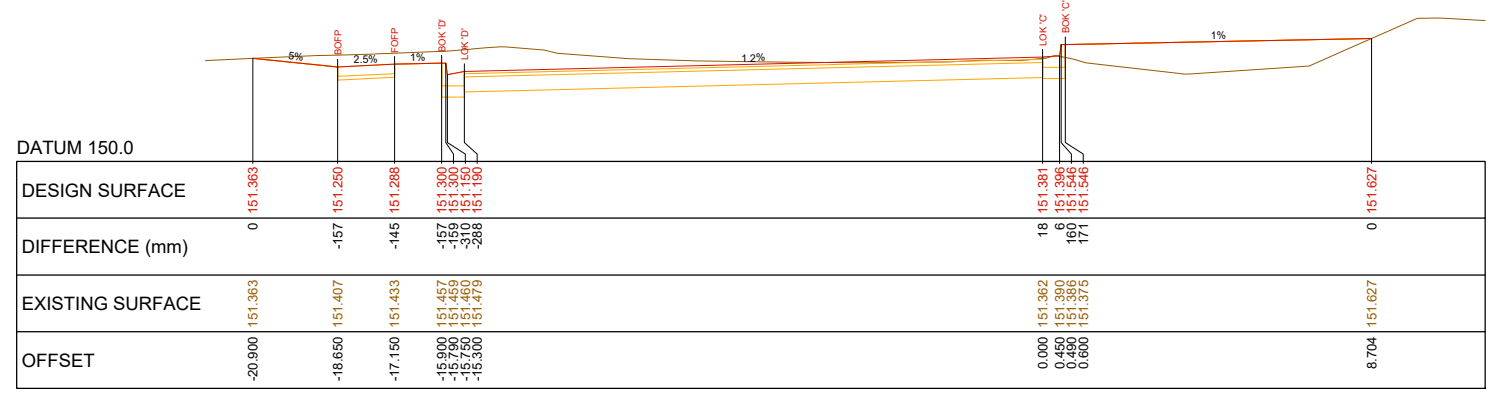
PROJECT No.
PC21030
SHEET No.
24 OF 28
VERSION
04
DWG No.
PC21030 -24 - 04



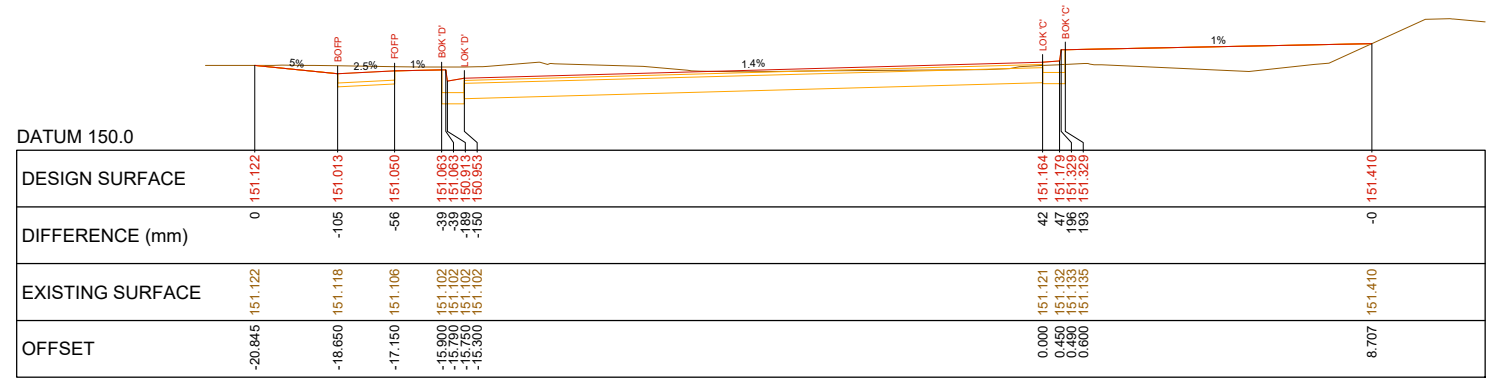
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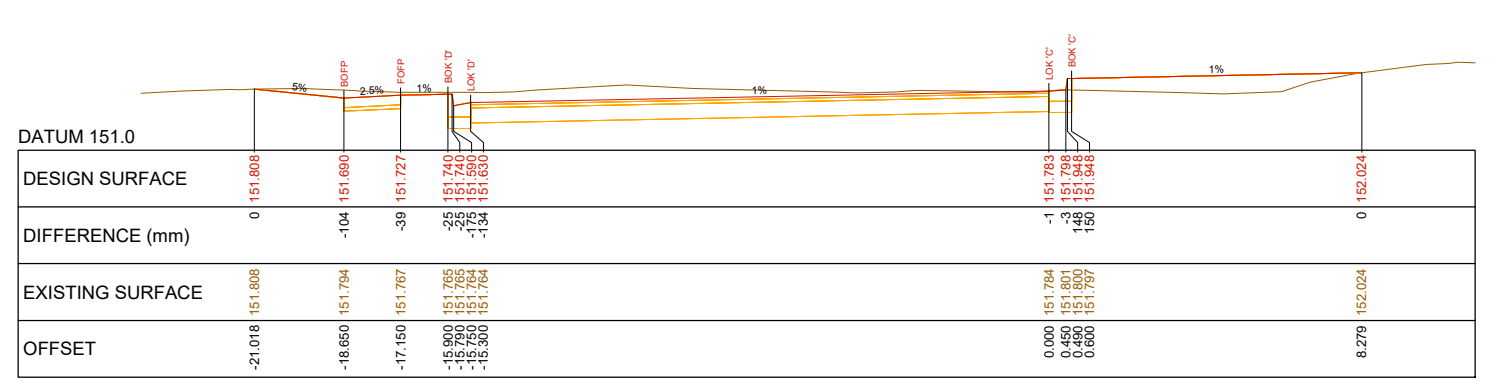
CH 65.000



CH 60.000



CH 55.000



CH 69.247

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CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) LIP OF KERB 'C'



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P: (03) 8644 6834
E: info@procivil.com.au
www.procivil.com.au

CIVIL ENGINEERING DESIGN: JUSTIN SIMS
TECHNICAL PEER REVIEW: LUKE WHITFIELD
REGISTERED & CHARTERED PROFESSIONAL ENGINEER: CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE: AS SHOWN @ A1
HEIGHT DATUM: AHD
COORDINATE DATUM: MGA 94 ZONE 55
SURVEY DATE: 01-10-2021
AERIAL IMAGE DATE: 01-09-2021

LOCAL GOVERNMENT AREA: CITY OF MAROONDAH

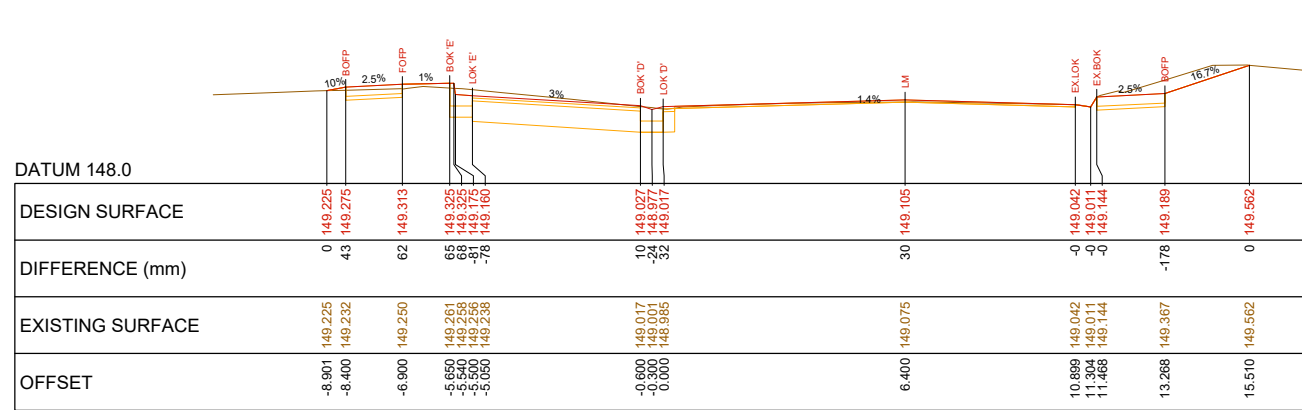
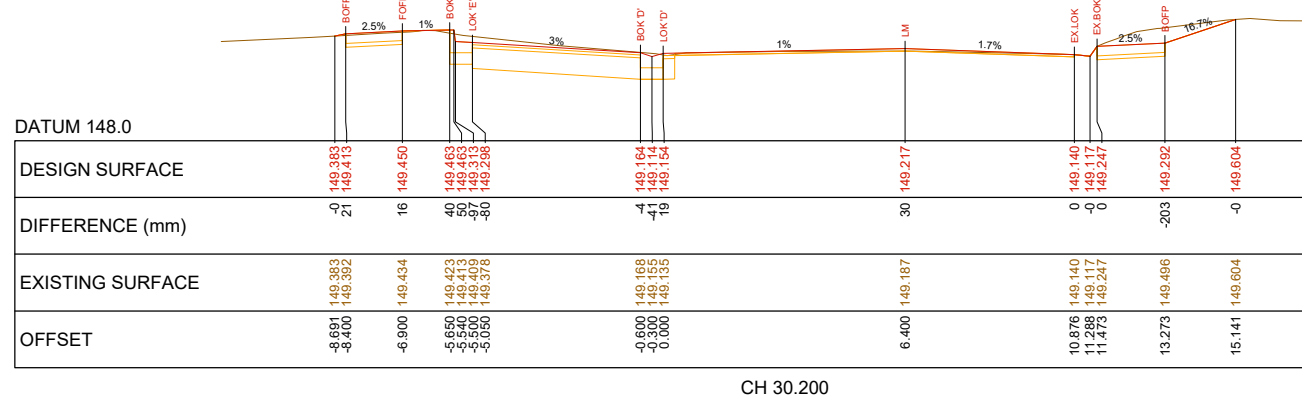
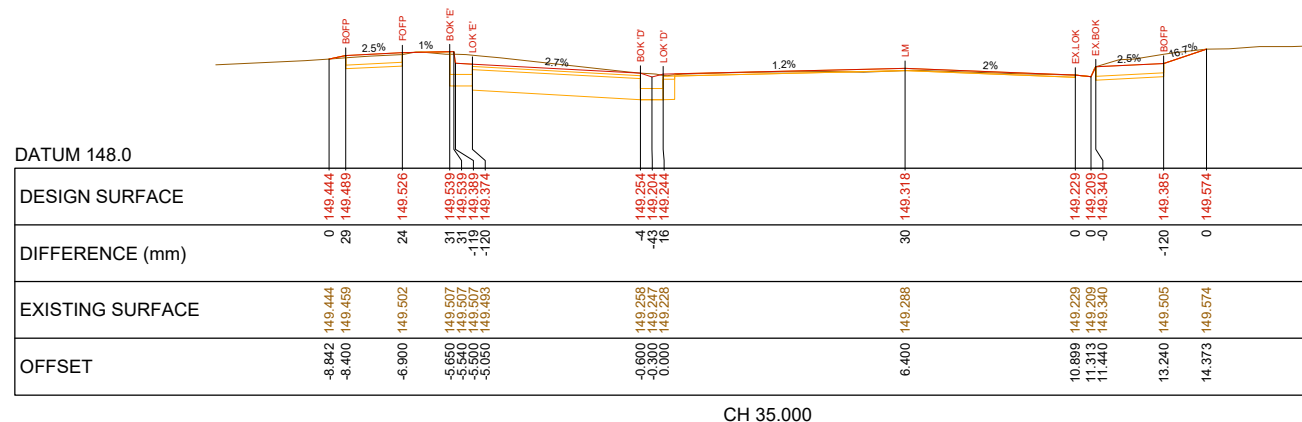
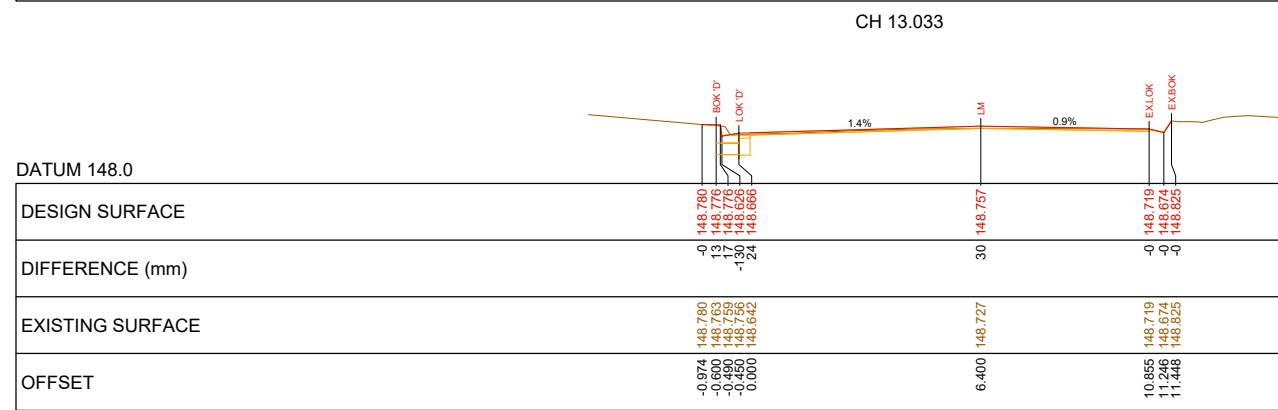
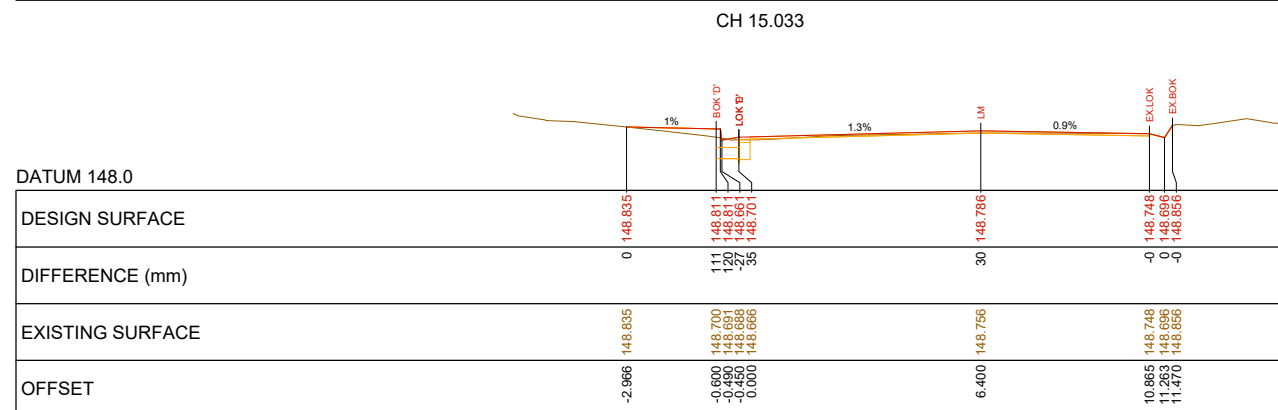
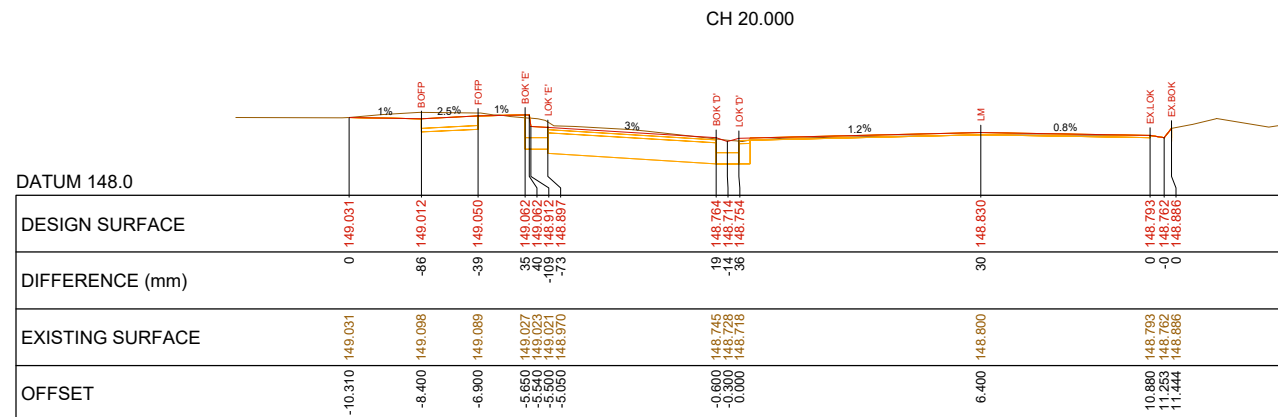
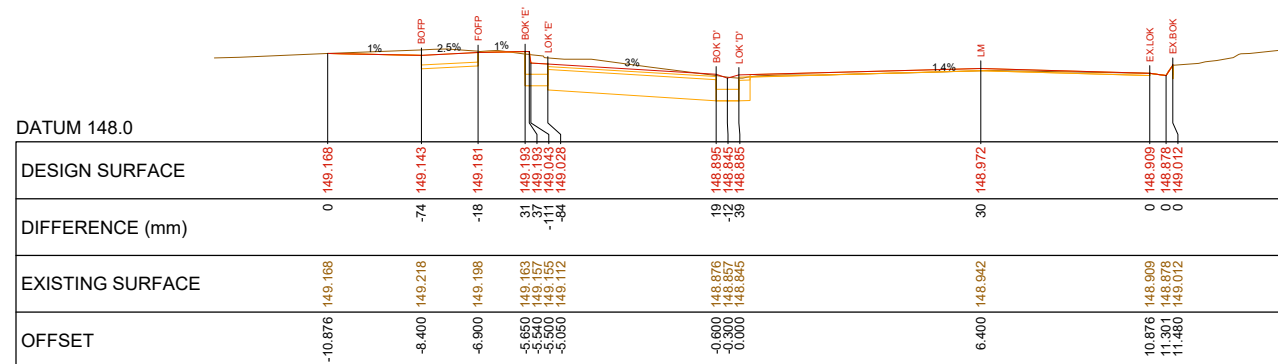
CLIENT PROJECT MANAGER / CONTACT: TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN
CAR PARK UPGRADE WORKS
NORWOOD RESERVE, RINGWOOD NORTH
CROSS-SECTIONS - LIP OF KERB 'C' - CH 55.000 - CH 69.247

PROJECT No.	PC21030
SHEET No.	25 OF 28
VERSION	04
DWG No.	PC21030-25-04



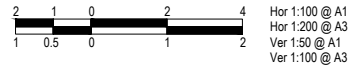
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CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) LIP OF KERB 'D'



VER	DESCRIPTION	DATE
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ORIGINAL SCALE & SHEET SIZE
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AHD

COORDINATE DATUM
MGA 94 ZONE 55

SURVEY DATE
01-10-2021

AERIAL IMAGE DATE
01-09-2021

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT
Maroondah City Council

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

CAR PARK UPGRADE WORKS

NORWOOD RESERVE, RINGWOOD NORTH

CROSS-SECTIONS - LIP OF KERB 'D' - CH 11.710- CH 35.000

PROJECT No.	PC21030
SHEET No.	26 OF 28
VERSION	04
DWG No.	PC21030-26 - 04



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DATUM 149.0

DESIGN SURFACE	0	149.489	149.805	149.843	149.855	149.855	149.855	149.629	149.625	149.625	149.624	149.739	149.812	149.812
DIFFERENCE (mm)			229	225	140	140	140	16	0	0	0	0	0	-28
EXISTING SURFACE	149.489	149.576	149.618	149.715	149.715	149.715	149.715	149.614	149.625	149.624	149.739	149.812	149.812	149.812
OFFSET	-11.462	-8.400	-6.900	-5.650	-5.650	-5.500	-5.500	-0.600	0.000	0.000	10.876	11.285	11.427	13.273

CH 55.000

DATUM 149.0

DESIGN SURFACE	0	149.450	149.726	149.764	149.776	149.776	149.776	149.531	149.531	149.531	149.531	149.632	149.632	149.677	149.677
DIFFERENCE (mm)			175	141	112	112	112	15	0	0	0	0	0	39	0
EXISTING SURFACE	149.450	149.551	149.622	149.622	149.664	149.664	149.664	149.520	149.531	149.531	149.531	149.632	149.632	149.638	149.638
OFFSET	-11.161	-8.400	-6.900	-5.650	-5.650	-5.500	-5.500	-0.600	0.000	0.000	10.874	11.287	11.473	13.273	13.351

CH 50.000

DATUM 148.0

DESIGN SURFACE	0	149.441	149.647	149.684	149.697	149.697	149.697	149.442	149.425	149.425	149.425	149.530	149.575	149.654	149.654
DIFFERENCE (mm)			165	151	91	91	91	9	0	0	0	0	-90	-90	0
EXISTING SURFACE	149.441	149.482	149.533	149.533	149.605	149.605	149.605	149.432	149.425	149.425	149.425	149.530	149.665	149.654	149.654
OFFSET	-10.456	-8.400	-6.900	-5.650	-5.650	-5.500	-5.500	-0.600	0.000	0.000	10.895	11.273	11.485	13.285	13.758

CH 45.000

DATUM 148.0

DESIGN SURFACE	0	149.464	149.588	149.605	149.618	149.618	149.618	149.348	149.325	149.325	149.325	149.427	149.478	149.521	149.521
DIFFERENCE (mm)			78	94	41	41	41	-3	0	0	0	0	-37	-37	0
EXISTING SURFACE	149.464	149.490	149.511	149.576	149.576	149.576	149.576	149.351	149.325	149.325	149.325	149.427	149.515	149.521	149.521
OFFSET	-9.443	-8.400	-6.900	-5.650	-5.650	-5.500	-5.500	-0.600	0.000	0.000	10.905	11.292	11.463	13.263	13.516

CH 40.000

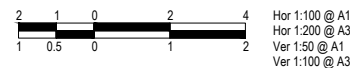
DATUM 149.0

DESIGN SURFACE	0	149.528	149.896	149.934	149.946	149.946	149.946	149.718	149.718	149.718	149.718	149.814	149.847	149.842	149.842
DIFFERENCE (mm)			287	247	172	165	165	18	0	0	0	0	-98	-98	0
EXISTING SURFACE	149.528	149.609	149.687	149.774	149.781	149.781	149.781	149.718	149.718	149.718	149.718	149.814	149.847	149.842	149.842
OFFSET	-12.079	-8.400	-6.900	-5.650	-5.540	-5.540	-5.050	-0.600	0.000	0.000	10.881	11.473	13.272	13.853	14.942

CH 60.733

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CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) LIP OF KERB 'D'



04	03	02	01	00
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ORIENTATION

OR AS SHOWN

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SURVEY DATE: 01-10-2021
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LOCAL GOVERNMENT AREA: CITY OF MAROONDAH

CLIENT PROJECT MANAGER / CONTACT: TOM DOBSON | MAROONDAH CITY COUNCIL

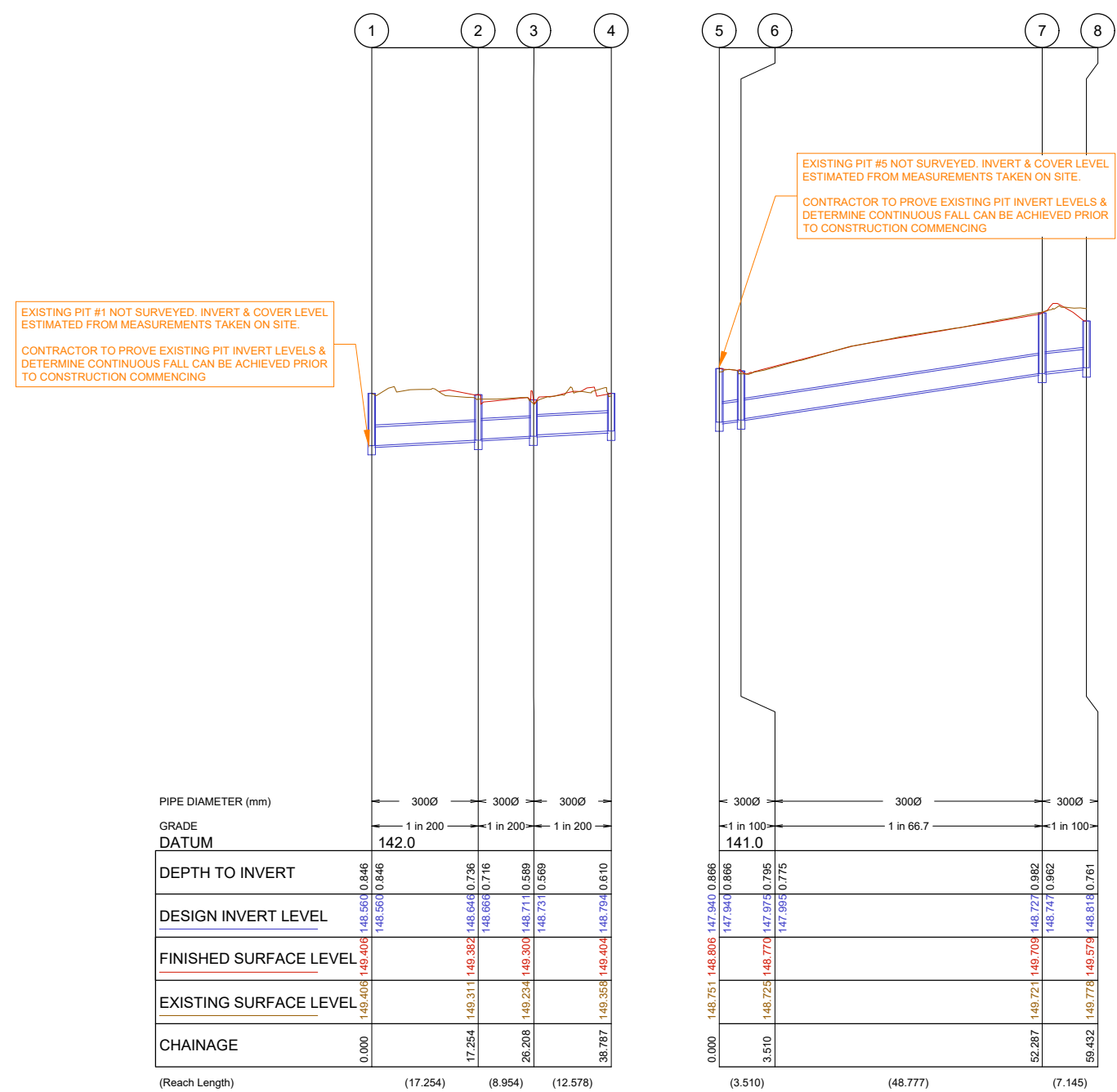
DETAILED DESIGN
CAR PARK UPGRADE WORKS
NORWOOD RESERVE, RINGWOOD NORTH

CROSS-SECTIONS - LIP OF KERB 'D' - CH 40.000 - CH 60.733

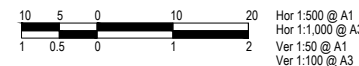
PROJECT No.	PC21030
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VERSION	04
DWG No.	PC21030-27-04



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.



DRAINAGE LONGITUDINAL SECTIONS



VER	DESCRIPTION	DATE
04	DETAILED DESIGN - ISSUED FOR REVIEW	14-06-2022
03	DETAILED DESIGN - ISSUED FOR REVIEW	31-05-2022
02	DETAILED DESIGN - ISSUED FOR REVIEW	12-05-2022
01	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	02-05-2022
00	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	10-11-2021

CONSULTANT ENGINEER

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 P: (03) 8644 6834
 E: info@procivil.com.au
 www.procivil.com.au

CIVIL ENGINEERING DESIGN: JUSTIN SIMS
 TECHNICAL PEER REVIEW: LUKE WHITFIELD
 REGISTERED & CHARTERED PROFESSIONAL ENGINEER: CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE: AS SHOWN @ A1
 HEIGHT DATUM: AHD
 COORDINATE DATUM: MGA 94 ZONE 55
 SURVEY DATE: 01-10-2021
 AERIAL IMAGE DATE: 01-09-2021

LOCAL GOVERNMENT AREA: **CITY OF MAROONDAH**

CLIENT PROJECT MANAGER / CONTACT: TOM DOBSON | MAROONDAH CITY COUNCIL

DETAILED DESIGN

CAR PARK UPGRADE WORKS
 NORWOOD RESERVE, RINGWOOD NORTH

DRAINAGE LONGITUDINAL SECTIONS

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