

# NOT TO SCALE PLASTIC OR STEEL MESH FENCING (BARRIER MESH) MUST BE USED TO PROTECT WORKSITE AND ALL

PROPRIATE 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).
- 3. IT IS THE CONTRACTORS RESPONSIBILITY TO TRANSFER ANY TBM'S THAT MAY BE AFFECTED BY THE WORKS
- 4. SETOUT DIMENSIONING AND RADII ARE FROM CENTRELINE OF ROAD UNLESS OTHERWISE SHOWN.

- THE CONTRACTOR IS TO VERIFY ALL LEVELS WITH THE SUPERVISING ENGINEER PRIOR TO COMMENCING ANY
- 2. ALL DISTURBED AREAS OUTSIDE THE WORKS ARE TO BE REINSTATED TO THE SATISFACTION OF COUNCIL
- 3. 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 ROVAL FROM THE SUPERVISING ENGINEER TO REMOVE TREE ROOTS GREATER THAN 40mm
- 5. THE CONTRACTOR SHALL NOT CAUSE ANY DAMAGE TO TREE BRANCHES OR TREE TRUNKS.
- 6. BACKFILL ALL TRENCHES BENEATH ROAD PAVEMENT AND VEHICLE CROSSINGS WITH CLASS 2 F.C.C.

### DRAINAGE

- ALL DRAINAGE WORKS TO BE TO AS3500
- 2. STORM WATER PIPES TO BE LAID WITH MINIMUM COVER OF 600mm UNLESS OTHERWISE SPECIFIED ON PLANS. REFER TO DRAINAGE PIPE LEVELS GIVEN IN DESIGN DOCUMENTATION WHERE PROVIDED.
- ALL DRAINAGE PIPES TO BE LAID TRUE TO LINE AND GRADE ON MIN 100mm OF 20mm CLASS 2 CRUSHED
- ALL REINFORCED CONCRETE DRAINAGE PIPES TO BE RUBBER RING JOINTED AND CLASS 2, UNLESS SPECIFIED OTHERWISE.
- ALL UPVC PIPES SHALL BE SEWER CLASS SN8 EXTRA HEAVY DUTY, SOLVENT WELDED UNLESS SPECIFIED
- 6. ALL PITS 1.0m DEPTH AND OVER TO BE FITTED WITH STEP IRONS
- 7. 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 TO THE
- 9. SUBSURFACE DRAINAGE TO BE LAID BEHIND KERB (OR UNDER KERB BASE WHERE INSUFFICIENT SPACE IS AVAILABLE) IN ACCORDANCE WITH ENGINEERING DESIGN & CONSTRUCTION MANUAL STANDARD DRAWING
- SUBSURFACE DRAINAGE TO BE APPROVED 100Ø CLASS SN8 SLOTTED/PERFORATED PIPE WITH GEOTEXTILE SOCK SURROUND & TO BE LAID IN ACCORDANCE WITH ENGINEERING DESIGN & CONSTRUCTION MANUAL STANDARD DRAWING EDCM 202, LAID AT A MINIMUM GRADE OF 1 in 100.

### 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.
- 2. BACKFILL ALL TRENCHES BENEATH ROAD PAVEMENT AND VEHICLE CROSSINGS WITH CLASS 2 CRUSHED
- "NO GO ZONES" TO BE ADHERED TO FOR ALL EXISTING SERVICES WHEN WORKING AROUND OR LINDER THEM IT

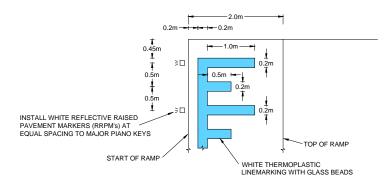
- THE LOCATION OF ALL EXISTING SIGNS ARE TO BE RECORDED PRIOR TO THE COMMENCEMENT OF WORKS AND ANY REMOVED TO MAKE WAY FOR THE WORKS ARE TO BE REINSTATED TO ORIGINAL POSITION OR TO A LOCATION AS DIRECTED BY SUPERVISING ENGINEER.
- ALL LINE MARKING IS TO BE REINSTATED IN ORIGINAL POSITION WHERE DISTURBED OR REMOVED BY CONCRETE PAVEMENT AND OR ASPHALT REPLACEMENT UNLESS OTHERWISE SHOWN.
- 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 - \$121 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

# ROAD & DRAINAGE RECONSTRUCTION WORKS



WARNING BEWARE OF UNDERGROUND SERVICES

# PRINCESS AVENUE AND CRICHTON ROAD, EMERALD



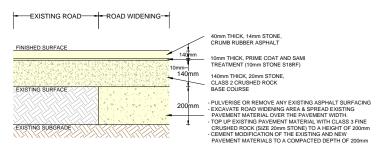
RAISED PAVEMENT LINEMARKING DETAIL

### GENERAL NOTES

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH CARDINIA SHIRE 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 ENCOACHES 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 CARDINIA SHIRE 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.
- 12. TRAFFIC MANAGEMENT PLANS SHALL BE APPROVED BY COUNCIL
- 13. AN APPROVED COPY OF PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON SITE AT ALL TIMES
- 15. 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 ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR
- 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.

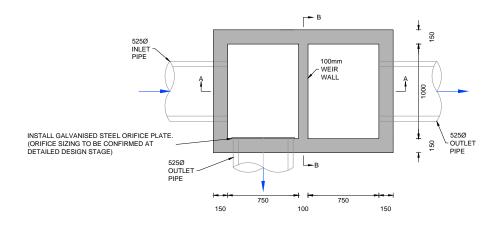


## DRAWING INDEX

SHEET No.	TITLE
1	TITLE SHEET - NOTES, LOCALITY PLAN, DRAWING INDEX & DETAILS
2	OVERALL PLAN
3	SECTIONS A-A, B-B & C-C
4	GENERAL LAYOUT PLAN
5	GENERAL LAYOUT PLAN
6	GENERAL LAYOUT PLAN
7	GENERAL LAYOUT PLAN
8	GENERAL LAYOUT PLAN
9	DRAINAGE CATCHMENT ANALYSIS PLAN
10	DRAINAGE MANAGEMENT PLAN

### PAVEMENT DETAIL

IN ACCORDANCE WITH GEOTECHNICAL REPORT BY SITE GEOTECHNICAL PTY LTD REF: R8377-1 SECTION 7.4.2 OPTION 2 (01 FEB 2021)



# **PLAN VIEW** 1:20 SCALE @ A4

FRAME TO SUPPORT PIT LIDS IN ACCORDANCE PIT LID SHOWN WITH MANUFACTURER'S SPECIFICATIONS EXISTING SURFACE EXISTING SURFACE CONCRETE WALLS LOW WATER LEVELS INLET PIPE WEIR WALL SL72 MESH REINFORCEMENT BASE OF PIT TO BE FOUNDED ON FIRM NATURAL GROUND TO COUNCIL SATISFACTION INSTALL GALVANISED STEEL ORIFICE PLATE DETAILED DESIGN STAGE SECTION B-B

WEIR PIT DETAIL

**CONSULTING ENGINEERING** Specialist Civil Engineering Design Consultants

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P: (03) 8644 6834 E: info@procivil.com.a CHRIS PROCTOR DEAN DIMITROS



	ORIGINAL SCALE & SHEET SIZE	LOCAL GOVERNMENT AREA
	AS SHOWN @ A1	SHIRE OF CARDINIA
	HEIGHT DATUM	CLIENT
	AHD	
	COORDINATE DATUM	
	MGA 94 ZONE 55	
SURVEY DATE		Cardinia
	29-05-2020	oaranna
	AERIAL IMAGE DATE	CLIENT PROJECT MANAGER / CONTACT
	18-12-2019	DANIEL POTTER   CARDINIA SHIRE COUNCIL

**SECTION A-A** 

1:20 SCALE @ A4

**FUNCTIONAL DESIGN ROAD & DRAINAGE RECONSTRUCTION WORKS** CRICHTON ROAD AND PRINCESS AVENUE. EMERALD

1:20 SCALE @ A4

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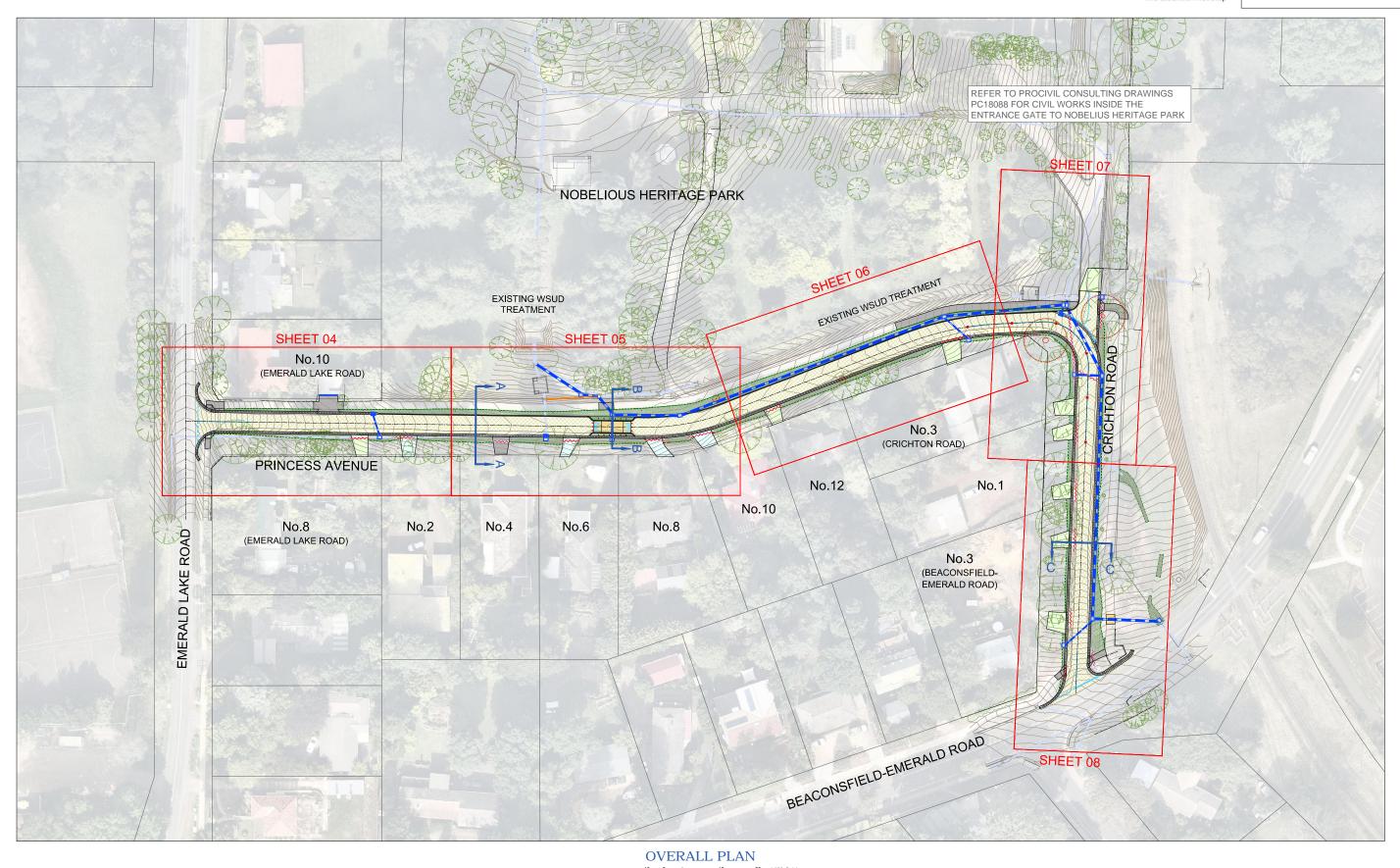
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TITLE SHEET - NOTES, LOCALITY PLAN, DRAWING INDEX & DETAILS



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GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.





01 FUNCTIONAL DESIGN - ISSUED FOR REVIEW
00 FUNCTIONAL DESIGN - ISSUED FOR REVIEW



RIGINAL SCALE & SHEET SIZE	LOCAL GOVERNMENT AREA	
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18-12-2019	DANIEL POTTER I CARDINIA SHIRE COLINCII	

FUNCTIONAL DESIGN

ROAD & DRAINAGE RECONSTRUCTION WORKS

CRICHTON ROAD AND PRINCESS AVENUE, EMERALD

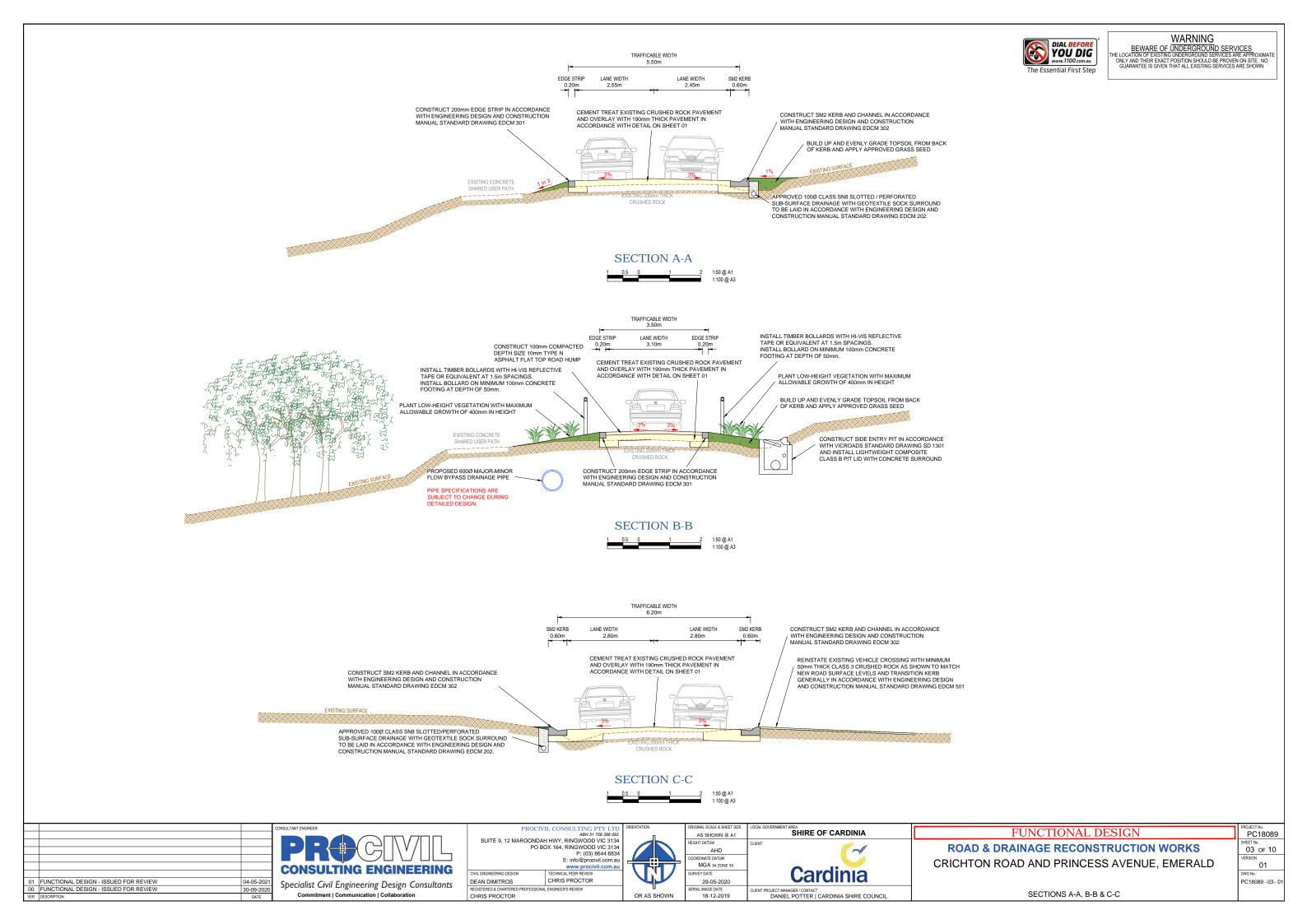
OVERALL PLAN

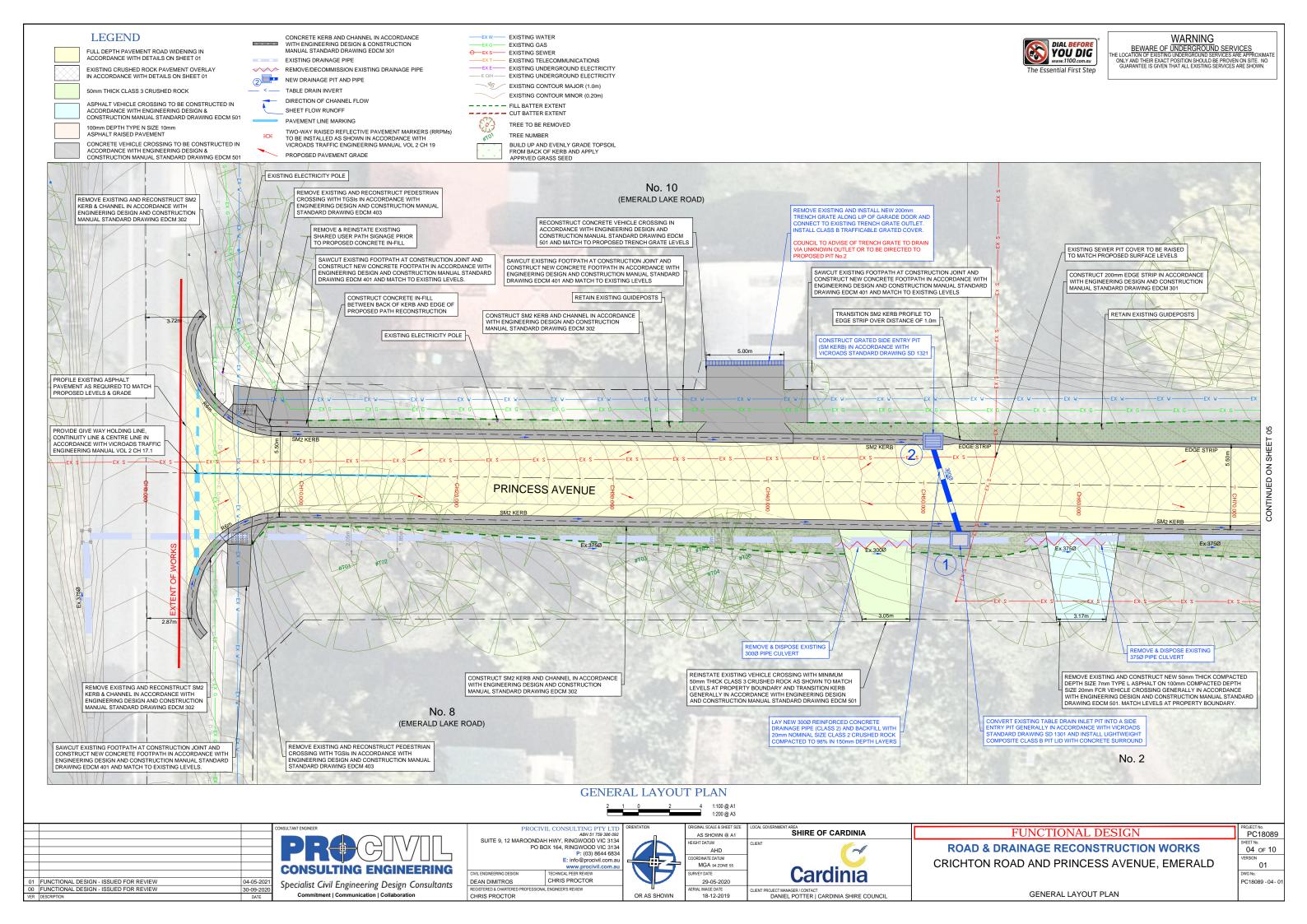
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PC 18089

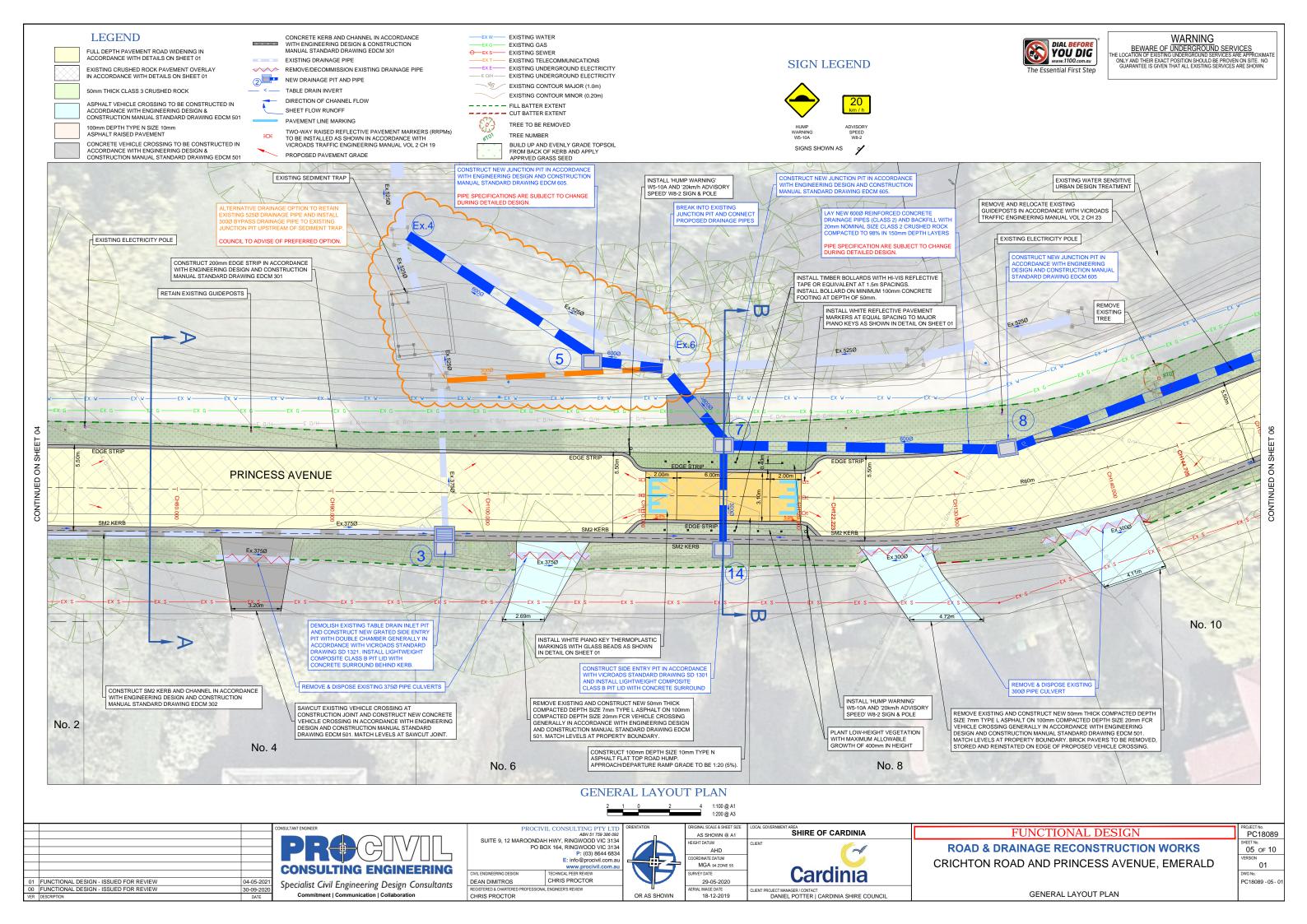
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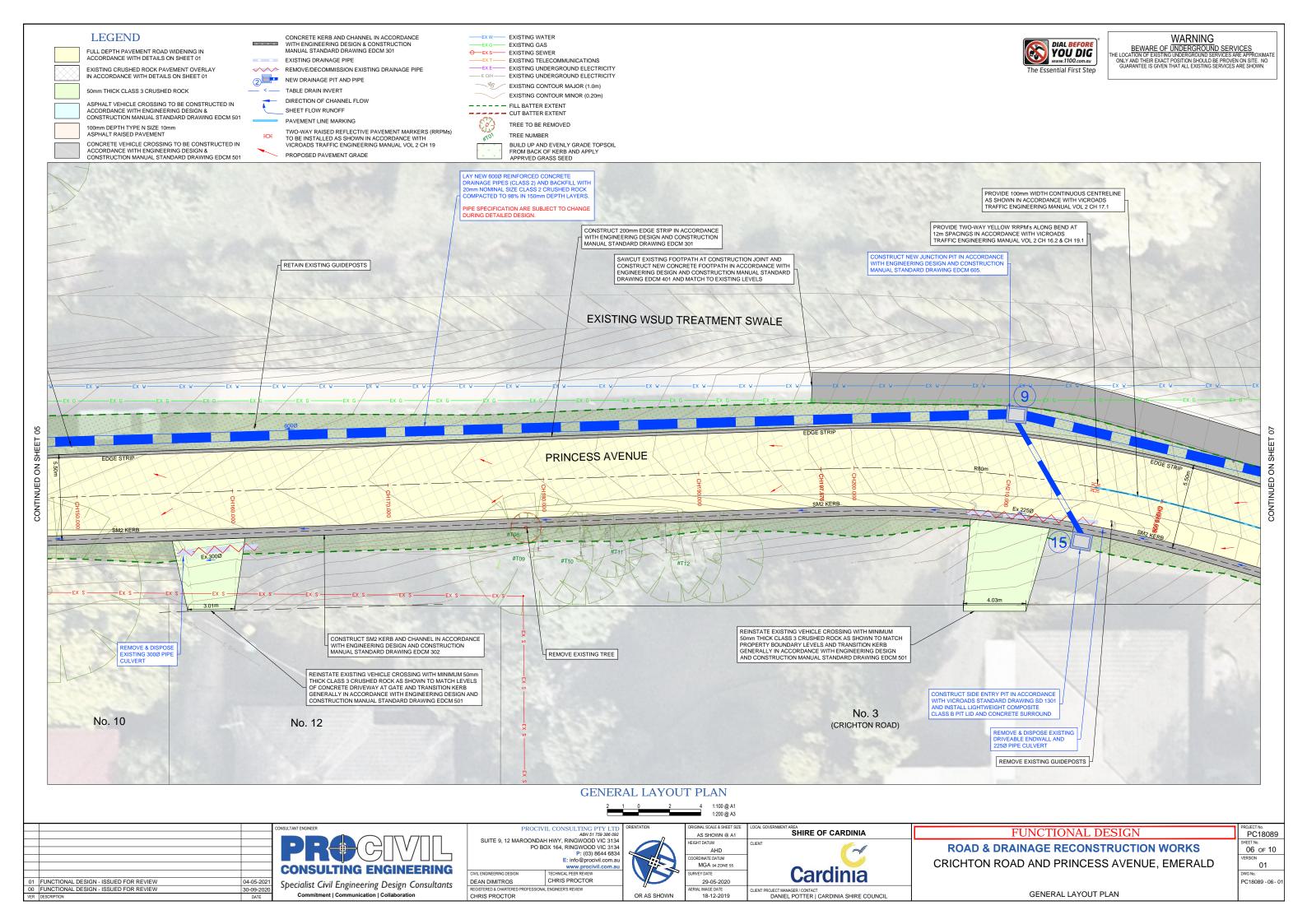
VERSION
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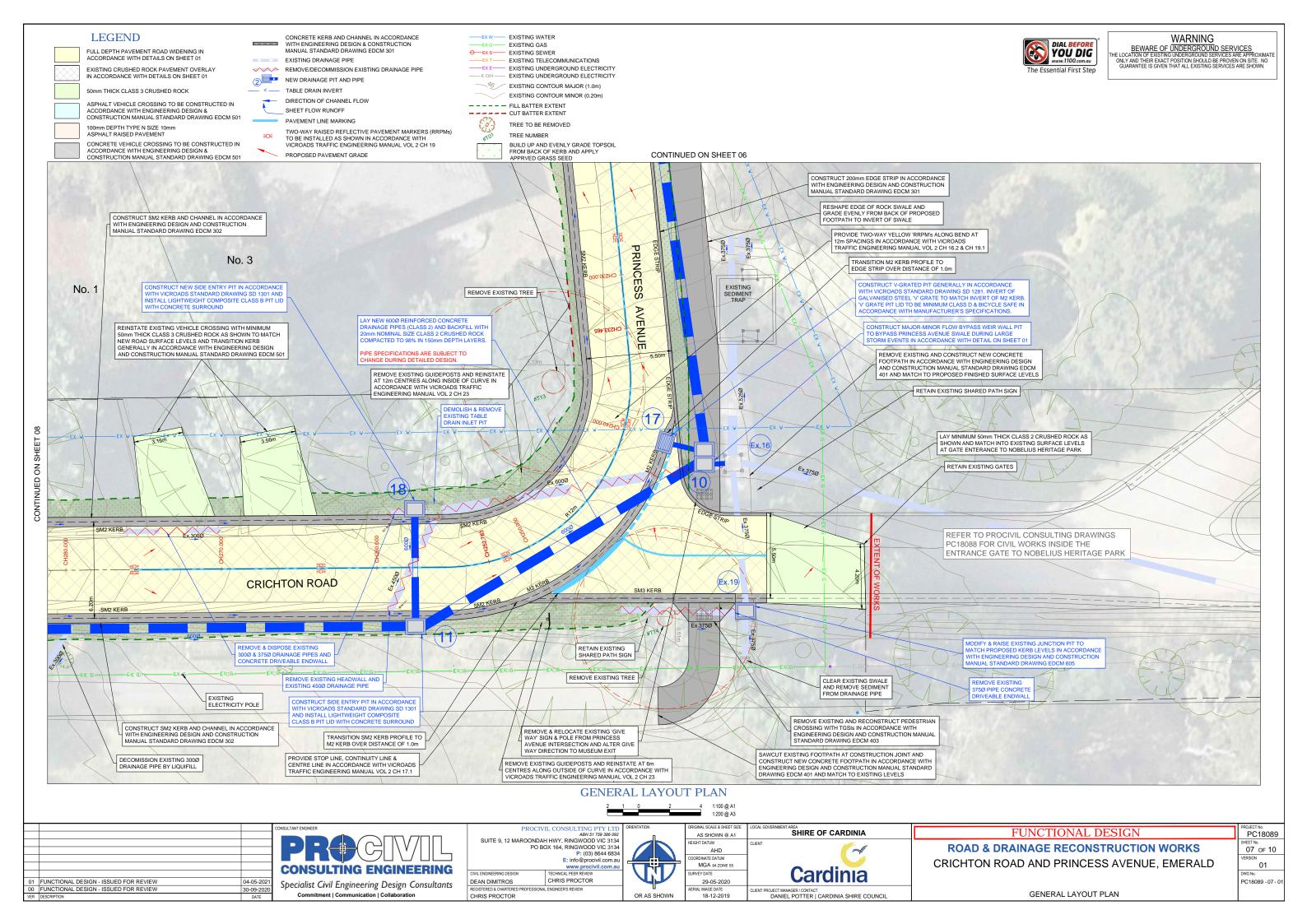
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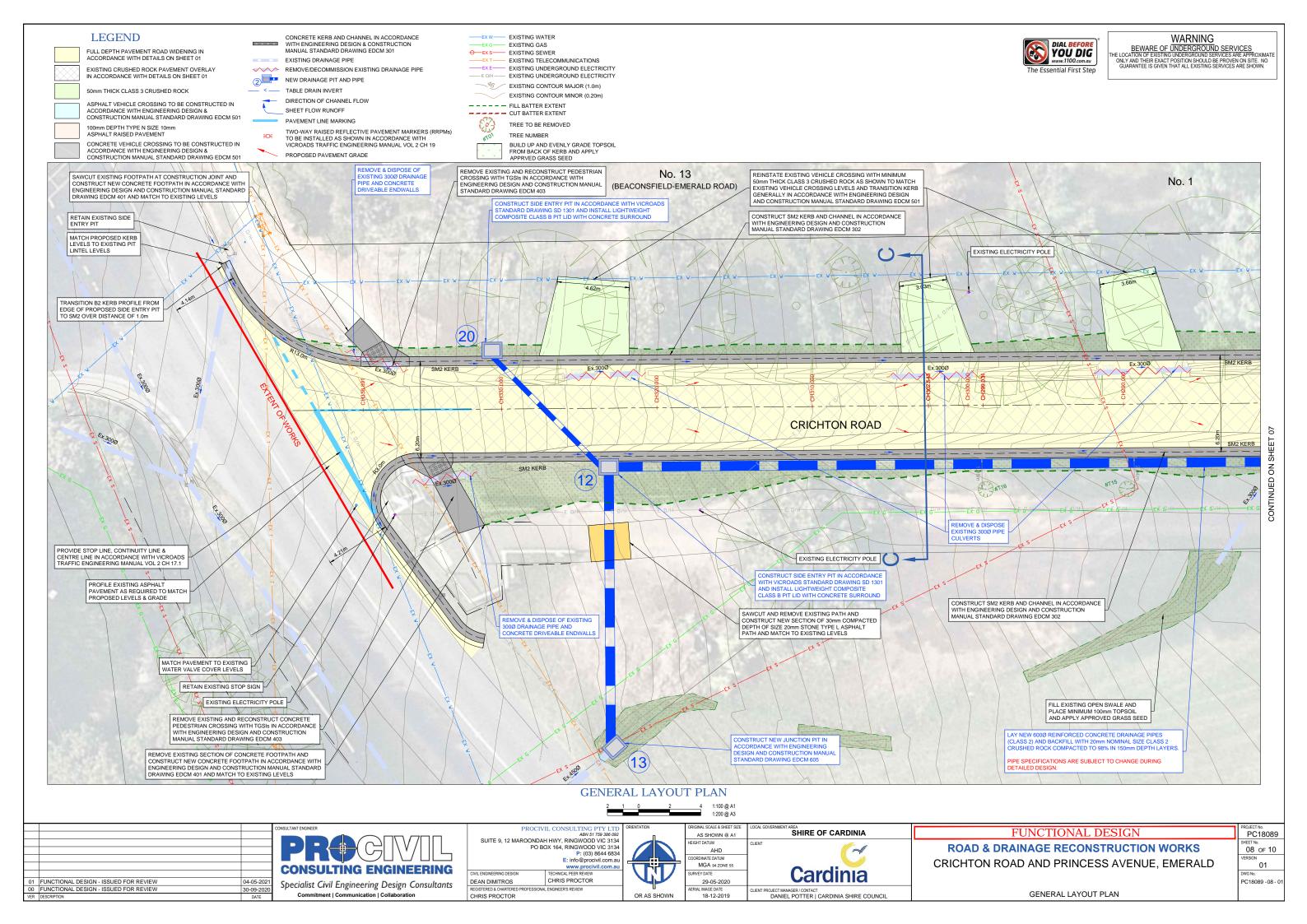






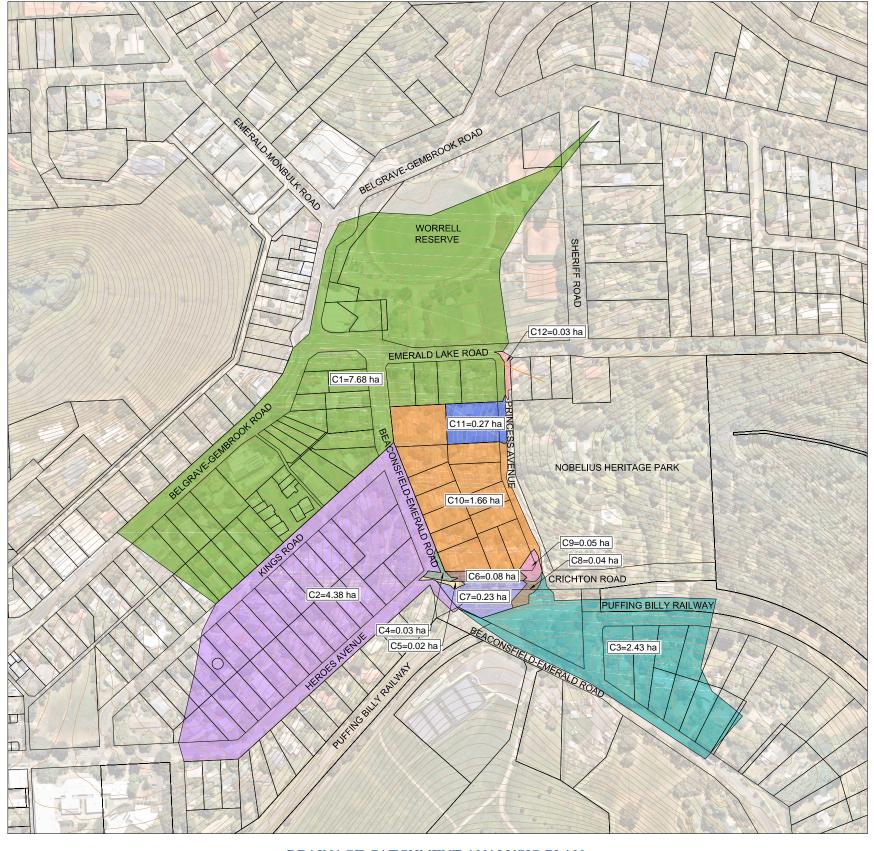








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# DRAINAGE CATCHMENT ANALYSIS PLAN



Specialist Civil Engineering Design Consultants

Commitment | Communication | Collaboration

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VER DESCRIPTION

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ORIGINAL SCALE & SHEET SIZE AS SHOWN @ A1	LOCAL GOVERNMENT AREA SHIRE OF CARDINIA	
FIGHT DATUM	• • • • • • • • • • • • • • • • • • • •	
AHD	CLIENT	
OORDINATE DATUM MGA 94 ZONE 55		
SURVEY DATE	Cardinia	
29-05-2020	Varanna	
ERIAL IMAGE DATE 18-12-2019	CLIENT PROJECT MANAGER / CONTACT DANIEL POTTER   CARDINIA SHIRE COUNCIL	

FUNCTIONAL DESIGN **ROAD & DRAINAGE RECONSTRUCTION WORKS** CRICHTON ROAD AND PRINCESS AVENUE, EMERALD

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PROJECT No.
PC18089

DRAINAGE CATCHMENT ANALYSIS PLAN

