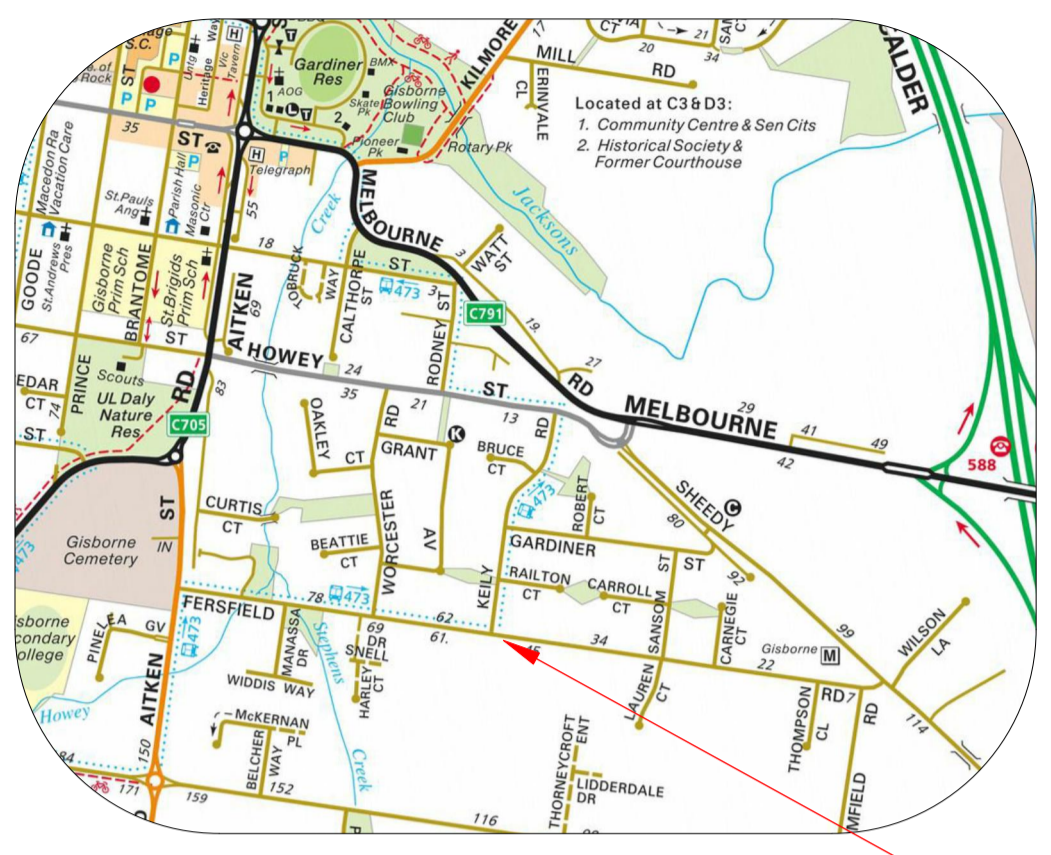


FERSFIELD ROAD GISBORNE RECONSTRUCTION



LOCALITY PLAN

SCALE: NTS
MELWAYS: 658 E6

Schedule 8: Drawing Schedule

Drawing No.	Sheet No.	Title
13111-C1	1	Locality Plan, Schedules & Notes
13111-C2	2	EXISTING CONDITIONS PLAN
13111-C3	3	TYPICAL ROAD, KERB & PAVEMENT DETAIL
13111-C4	4	DESIGN PLAN 1/2
13111-C5	5	DESIGN PLAN 2/2
13111-C6	6	
13111-C7	7	
13111-C8	6	

STANDARD NOTES FOR SUBDIVISIONS:

- All works are to be carried out in accordance with the Macedon Ranges Shire Councils Engineering policies, Standard Drawings (as revised) and specifications to the satisfaction of Council's Supervising Officer and/or their representative.
- All levels shown are to Australian Height Datum (AHD).
- All coordinates are to Map Grid of Australia (MGA).
- All dimensions are in meters unless noted otherwise.
- The Landscaping Plans are to be endorsed as "per conditions of the planning permit" prior to approval of the Construction plans.
- Council to be notified seven (7) clear days prior to commencement of works with a Pre-commencement Meeting being held between Council, the Consultant and the Contractor;
- A Site Management Plan is to be submitted prior to the Pre-commencement Meeting.
- Where Works are in the vicinity of existing services, these services are to be located and exposed/proved prior to commencement of works and the relevant service authorities and/or their agents are to be notified seven (7) clear days prior to the commencement of works.
- The Contractor is to obtain the necessary "Asset Protection Permit" prior to undertaking any works within a previously constructed roadway or easement.
- The Contractor is to obtain the necessary "Building Permit" prior to constructing Retaining Walls / Structures over 1.0m in height.
- Street Lighting design, where proposed, is to be provided and approved prior to commencement of works.
- Prior to commencement of works, the contractor must ensure that all matters relating to The Occupational Health and Safety Act 2004 and OHS Regulations 2007 have been and will be complied with.
- Prior to the commencement of works "the disposal site" for spoil removal from works site "and truck route" is to be submitted to and approved by Council's Supervising Officer and/or their representative in writing.
- Prior to commencement of construction works on site, the contractor must comply with the recommendations of the Environment Protection Authority Publication "Construction Techniques for Sediment Pollution Control" as revised. This applies to appropriate Erosion & Siltation control measures to be maintained during the construction and maintenance period of the works.
- No Tree or Vegetation is to be disturbed or removed without approval from Council and clearly denoted on Landscape and/or Construction plans. No Trees, Vegetation or other materials are to be burnt on site.
- Trees and Vegetation to be retained are to be protected by a tree protection zone (TPZ) at all times during construction. The TPZ must be in accordance with Planning conditions or approved Arborist Report and/or Vegetation Management Plan and be clearly denoted on approved plans.
- No circumstances shall vehicles, site sheds, plant and equipment be stored or placed within fenced zone.
- Prior to the commencement of works, the Contractor must provide the following information;
 - Source of Quarry Material crushed rock (CR).
 - N.A.T.A. approved test results for the CR that is to be used.
 - Should the source of Quarry Material CR change during course of works, then new test results must be provided.
- Prior to commencing work on trenches in excess of 1.5m deep the proposal must comply with WorkSafe. A "Notice of Intention to Excavate..." form must be submitted to WorkSafe 3 days prior to the work excavations.
 - Call: 1800 136 089 toll free.
 - Emergencies Call: 13 23 60.
- The Contractor must maintain all necessary Traffic Control Safety measures during the works.
- All Service Conduits Trenches within the road reserve must be backfilled to a dry density not less than 95% of the maximum dry density value determined by the modified compaction test in accordance with AS 1289.5, and as specified below;
 - Service trenches under Road Pavement, Footpath or Vehicular Crossings backfilled with 20mm 3% cement treated Class 3 crushed rock compacted.
 - Service trenches adjacent to road pavement or concrete structures backfilled with Class 3 crushed rock compacted.
- All Stormwater Drains are to be reinforced concrete (RC) Class 2 rubber ring jointed (RRJ) pipes unless noted otherwise;

- All RC pipes up to and including 750mm dia. are to be RRJ.
 - Pipes larger than 750mm dia. to be interlocking flush joints external banded
 - All 150mm dia. Stormwater pipes are to be heavy duty sewer grade PVC unless otherwise approved.
 - Sub-soil drainage: 100mm dia. Agricultural pipe drains to be placed behind all Kerb on 20mm aggregate bedding, 200mm below subgrade and at grade and in accordance with Councils Standard Drawings.
 - Minimum cover to overtop of drainage pipes shall be 300mm in easements and 500mm in road reserves. Minimum cover (the depth) of drainage pipes in roads reserves must be greater than the design depth of sub-soil drainage, refer to "Sub-soil drainage" note (21).
 - 100mm dia. House Drain Connections to be laid at an offset of 1.0m from the low side of Title boundary as standard. Offsets greater than standard are to be dimensioned on the construction plans;
 - House Drain Connections up to 150mm dia. to be via a manufactured junction piece. Pipes are to be heavy duty sewer grade PVC and backfilled with FCR to 150mm above top of pipe.
 - All connections to Councils assets are to be as per Councils Standard Drawings.
 - Fill areas are to be stripped of topsoil, filled and then topsoil replaced to obtain final fill levels as shown on approved construction plans. All filling to be clean clay compacted and tested in accordance with AS 1289.5.
 - Filling to comply with AS 3798-2007, "Level 1" supervision unless specified otherwise. Any substandard filling encountered must be promptly removed and replaced in accordance with the above requirements.
- The Contractor is responsible for ensuring that all imported fill material, including additional topsoil, satisfies the description for clean fill material in EPA Bulletin Publication No. 448, as revised. The Contractor if requested is to provide soil test certificates to Council's Supervising Officer and/or their representative.
- Blasting generally is not approved as standard, however blasting may be required as a last resort depending on ground conditions. Council is to be notified in writing if any basting is found to be necessary. Residents and Property likely to be affected by blasting and all service authorities shall be notified in writing prior to blasting works commencing. Notification letter is to include blasting procedures, likely timings and include Contractor and Consultant contact names and phone numbers. Blasting area signs must be in place at all entrances to the works site.
- Works to be in accordance with AS 2187.2, and restricted to between 9.00am and 3.30pm and not to occur on public holidays.
- Earth Batters shall be 1 in 6 minimum, evenly graded, topsoil and seeded unless otherwise specified;
 - Road pavements to be a minimum depth of 300mm including surfacing for residential streets only;
 - Pavement depth specified is a minimum depth and may be varied by Council's Supervising Officer and/or their representative.
 - Soft spots must be excavated to a proof rolled base and backfilled with approved material compacted in 150mm layers to a density determined by the standard compaction test in accordance with AS 1289.5.
 - Subbase pavement component to be 100mm wider than the outside of Kerb or Edging strip widths.
 - Kerb types shall be as specified in accordance with the Council Standard Drawings. Kerb transition lengths between different kerb types are to be over 3.0m if it cannot be achieved at a pram ramp crossing or vehicle crossover.
 - Vehicle Driveways & Crossovers;
 - Residential Vehicle Crossings to be constructed in accordance with Councils Standard Drawings. Maximum number of crossings to a residential property is 2, providing crossing width is maximum 3.5m each and a separation of 8m is achieved.
 - Rural Vehicle Crossings to be constructed in accordance with Councils Standard Drawings. Unless at an obvious high point all rural crossovers are to include a pipe culvert.
 - Corner properties will require crossing clearances from intersections and pedestrian pram ramp crossings as per Australian Standards to the satisfaction of Council.
 - All Footpaths to be a minimum of 1.5m wide and in accordance with Councils Standard Drawings;
 - Footpaths are to be 50mm offset from title boundaries, unless noted otherwise.
 - Pram ramp crossing to be in accordance with Councils Standard Drawings.
 - All new concrete works shall develop a minimum compressive strength of 25 MPa at 28 days, unless otherwise specified.

- Exposed Aggregate Concrete works are non-standard pavement works, proposals must be approved in writing prior to commencement of works.
 - All Traffic Control Measures, Signs and Line marking must be in accordance with AS 1742.
 - All Signs erected to be Class 1 high intensity type complying with the requirements of AS 1743. Street name signs in accordance with Council requirements;
 - All Road guide posts or delineators are to be "Rubber Hinge" type.
 - All Verges and Table drains, excavated or filled within the Road Reserve shall be resurfaced with a 100mm layer of topsoil as specified, free from clay and stone, evenly graded and seeded to the satisfaction of Council's Supervising Officer and/or their representative;
 - Grades 1 in 5 and steeper require a hydromulch and seed mix.
 - All Fire Hydrants are to be marked in accordance with C.F.A. and M.F.B. requirements. Markings to be via Blue raised reflective pavement marker and a marker post.
 - Open Space and Drainage Reserves to be evenly graded, seeded and free draining to the satisfaction of Council's Supervising Officer and/or their representative;
 - Removal of topsoil from reserves during the works must be held on-site and reinstated as specified.
 - Design information to include; Potable Water supply in underground pit configuration, bollards, fencing, seating, shading & playground equipment and BBQ's etc. where required by the permit.
 - On Practical Completion the Contractor is responsible for;
 - The reinstatement of Existing Assets affected by the works.
 - The removal of all redundant Assets, Building waste, Rubbish and Spoil from the site.
 - Non trafficable measures of areas for grass establishment to the satisfaction of Council's Supervising Officer and/or their representative.
 - As-Constructed Data including variations during construction works is to be provided prior to the issue of Statement of Compliance;
 - Drawings are to be in A1 and A3 hardcopy for print in AutoCAD (2010) and Acrobat PDF formats.
 - Prior to the End of Defects liability period Grass is to be established as per Council guidelines, unless otherwise agreed in writing.
 - HOLD POINT inspections are to be arranged for approval by Council's Supervising Officer and/or their representative. The Consultant and/or Contractor to be present at Hold Points;
 - Pre-commencement Works meeting.
 - Erosion & Siltation control measures constructed.
 - Prior to Trench backfilling;
 - Stormwater drainage pipes and pits, including subsoil AG drains,
 - Property/House connections.
 - Road Subgrade proof-roll prior to placement of sub-base.
 - Road Sub-base proof-roll prior to placement of base course.
 - Road Base Course proof-roll prior to sealing.
 - Prior to placement of concrete for Kerb and channel, footpaths and vehicle crossings.
 - Practical Completion Inspection (allows commencement of Defects Liability Period).
 - End of Defects Liability Inspection.
- Following inspections may also be to be carried out by Council's Supervising Officer and/or their representative;
- Inspection of traffic control safety measures in accordance with the Site Management Plans.
 - Inspection of works in accordance with endorsed Landscape plans.
 - Any other inspections as determined by the Council.

additional notes:

- Provide compaction tests for all layers (sub-grade 98% MMDD, sub-base 98% and base 100% MMDD).
- All nature strips and swales to be shaped and consist of imported (clean - free from clay, debris, construction materials) 100mm topsoil and hydro seeded - including all construction areas.
- Broom finish for all concrete surfaces.
- CCTV all stormwater pipes prior to PC and prior to end of defects inspection.
- All Junction pits to have lightweight composite pit lids.
- All pits to be rendered and mortared, pipes cut flush with pit wall and cleaned.
- Pits to have flat base (no chase).



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

				DESIGNED	DESIGNED DATE: XXXXXX	PROJECT NUMBER	TBC			PRINCIPAL		SCALE: AS SHOWN @ A3
				DRAWN	DESIGNED DATE: XXXXXX	AUTHORISED	X DATE: 00/00/0000			MACEDON RANGES SHIRE COUNCIL		SHEET: --- OF X
				CHECKED	DATE: XXXXXX	REGISTERED ENGINEER				FERSFIELD ROAD RECONSTRUCTION		DRAWING No.: 13111 - C----
A	FIRST ISSUE	XX/XX/XX	J.BUCKLE			NAME: JON BUCKLE				GISBORNE		REV
REV	DESCRIPTION	DATE	REG. ENG	REV	DESCRIPTION	DATE	APPROVED			FACE SHEET		A

BCS Consulting Engineers Pty. Ltd.
CIVIL · STRUCTURAL · SURVEYING · PROJECT MANAGEMENT

79 AITKEN STREET, GISBORNE 3437
PHONE (03) 5428 3266



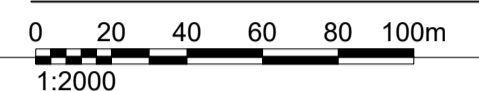
EXISTING CONDITIONS PLAN CH 00 - CH360

EXISTING CONDITIONS PLAN CH360 - CH740

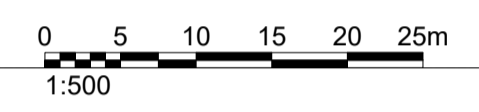
EXISTING CONDITIONS PLAN CH740 - CH1110

EXISTING CONDITIONS PLAN CH1110 - CH1434

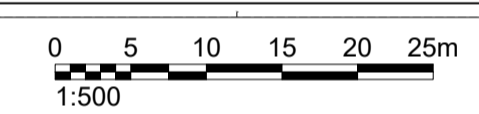
EXISTING CONDITIONS PLAN



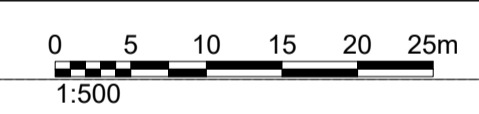
EXISTING CONDITIONS PLAN CH 00 - CH360



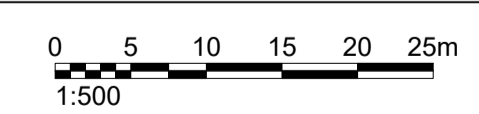
EXISTING CONDITIONS PLAN CH360 - CH740



EXISTING CONDITIONS PLAN CH740 - CH1110



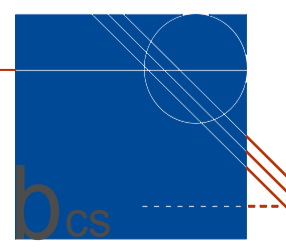
EXISTING CONDITIONS PLAN CH1110 - CH1434



1. A MRSC ASSET PROTECTION PERMIT MUST BE TAKEN OUT BEFORE ANY WORKS CAN COMMENCE WHATSOEVER.
2. ALL SERVICES TO BE LOCATED & DEPTED BY CONTRACTOR PRIOR TO ANY WORKS WHATSOEVER. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY DAMAGE TO ANY SERVICES.
3. ANY SERVICES SERVICING LOT ___ THAT CROSS BOUNDARY OF LOT ___ ARE TO BE REDIRECTED SO THAT THEY ARE WHOLLY CONTAINED WITHIN LOT ___.

REV	DESCRIPTION	DATE	REG. ENG	REV	DESCRIPTION	DATE	APPROVED
A	FIRST ISSUE	XX/XX/XX	J.BUCKLE				

DESIGNED	DESIGNED DATE: XXXXXX	PROJECT NUMBER	TBC
AUTHORISED	DATE: 00/00/0000	REGISTERED ENGINEER	
CHECKED	DATE: XX/XX/XX	NAME: JON BUCKLE	
		PE REG. NO.: PE0002502	
		PHONE (03) 5428 3266	



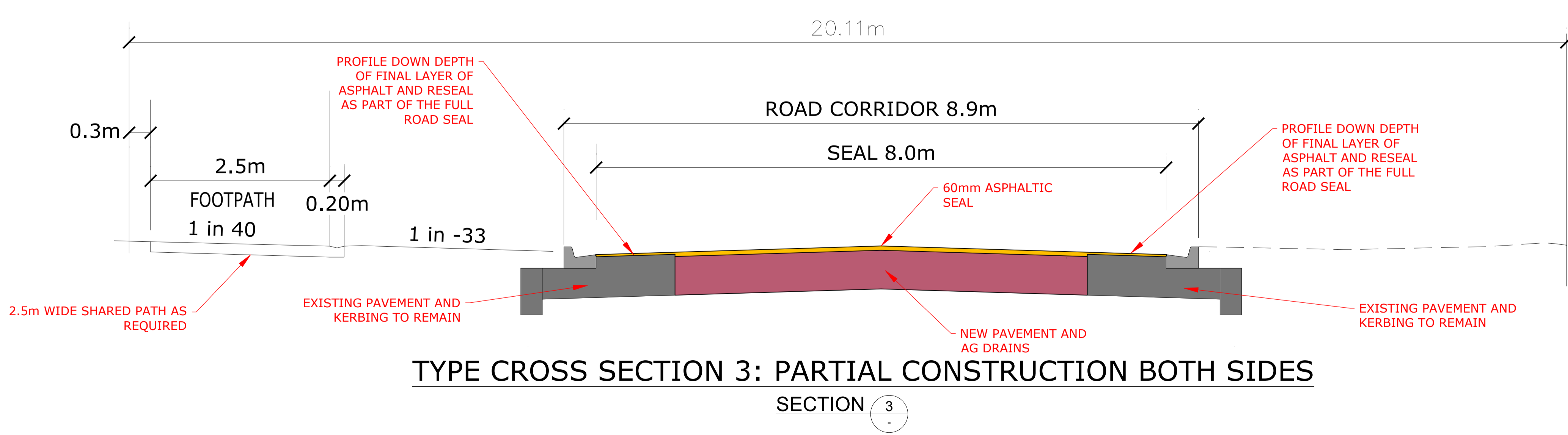
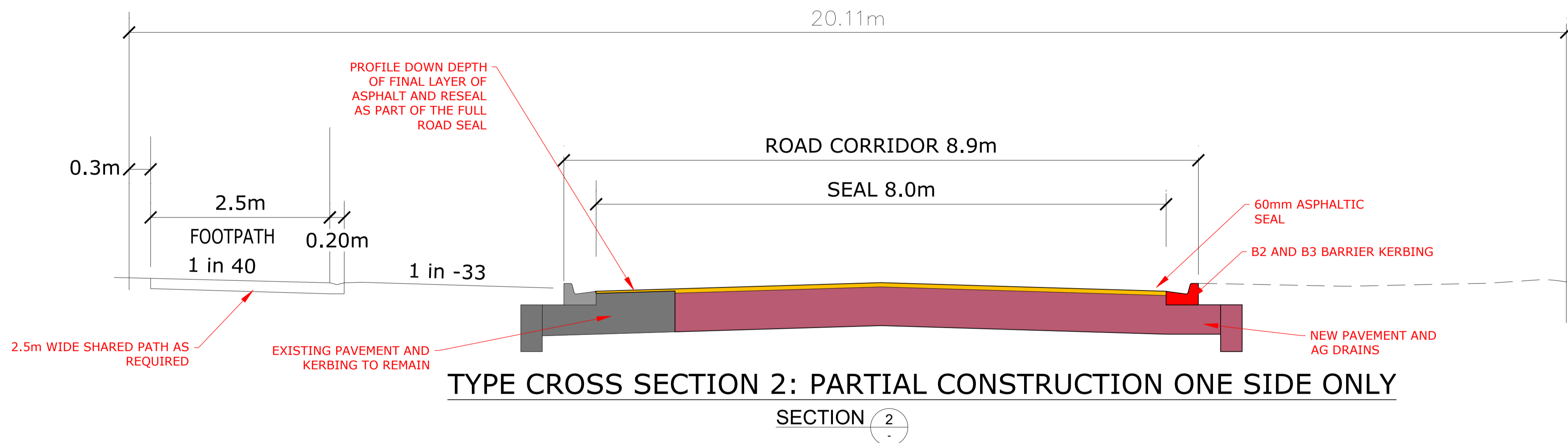
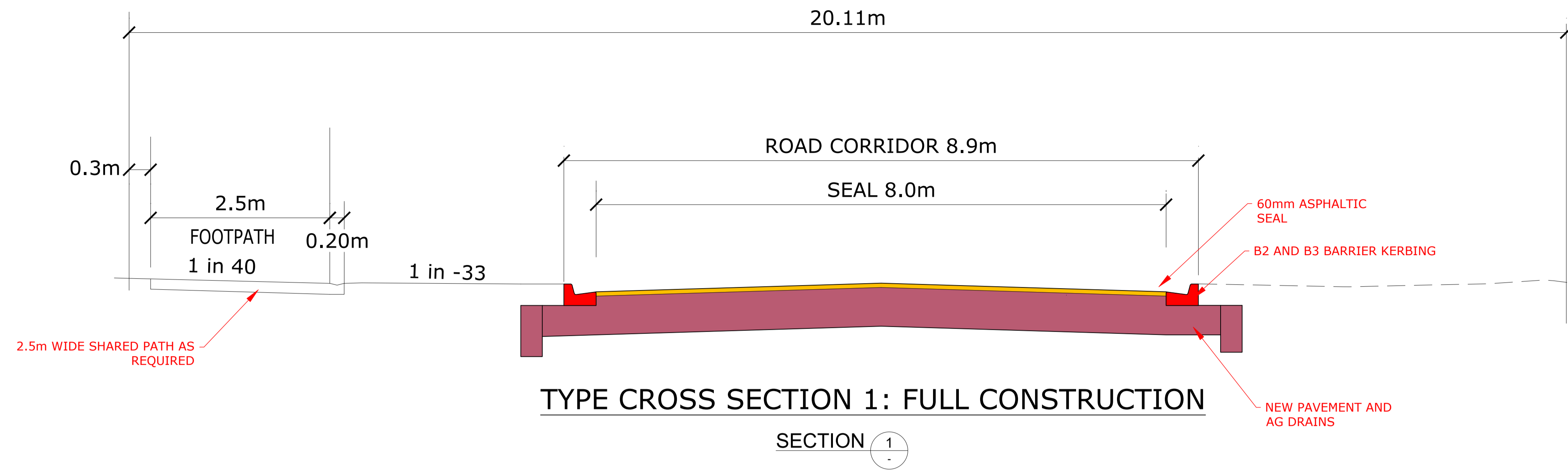
BCS Consulting Engineers Pty. Ltd.
 CIVIL · STRUCTURAL · SURVEYING · PROJECT MANAGEMENT
 79 AITKEN STREET, GISBORNE 3437
 PHONE (03) 5428 3266



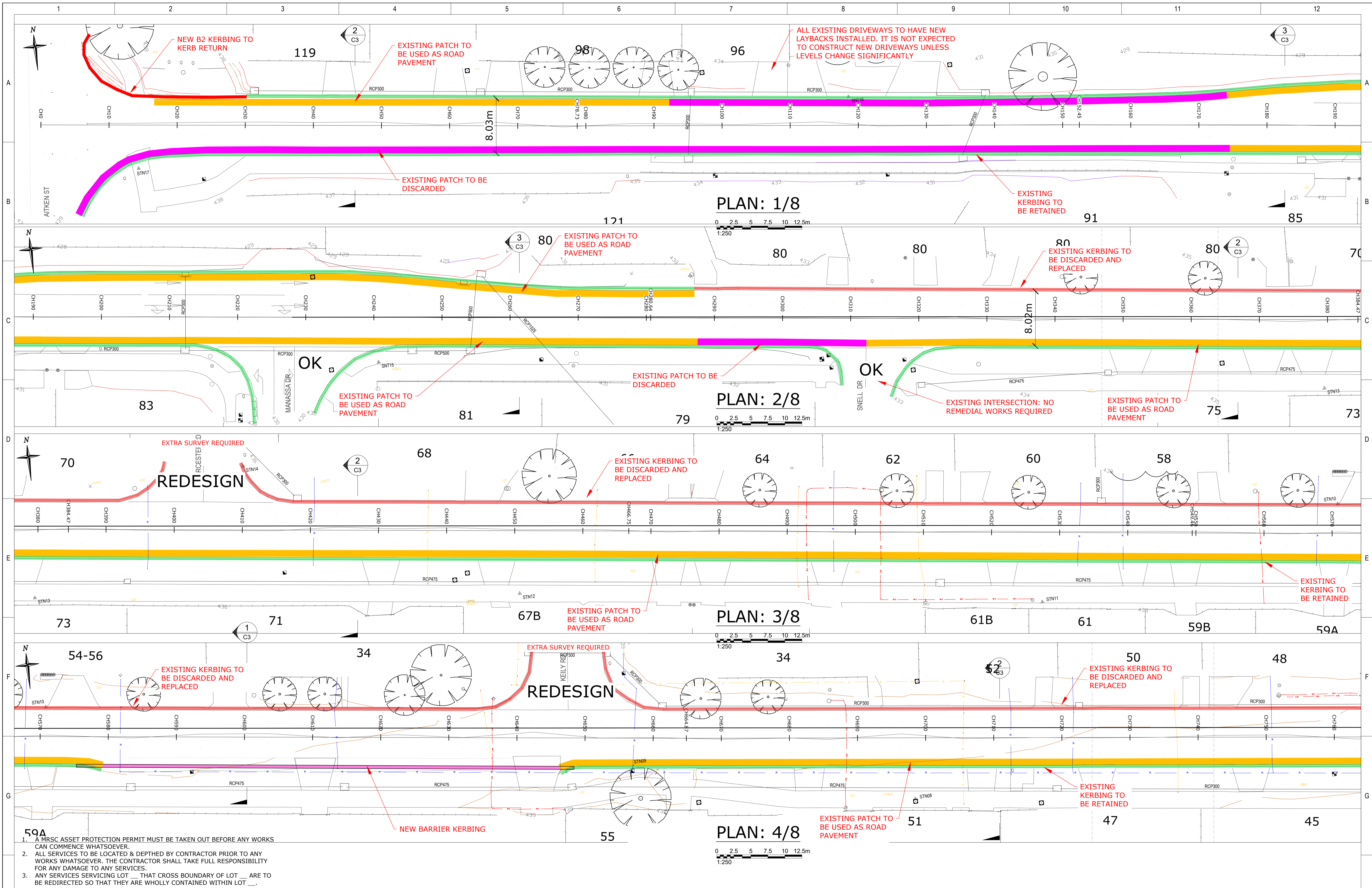
PRINCIPAL	
-----------	--

MACEDON RANGES SHIRE COUNCIL
FERSFIELD ROAD RECONSTRUCTION
 GISBORNE
 EXISTING CONDITIONS PLAN

SCALE: AS SHOWN @ A3	
SHEET: 2 OF X	
DRAWING No.: 13111 - C2	REV A

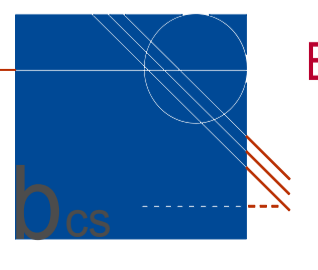


DESIGNED		DESIGNED DATE: XXXXXX		PROJECT NUMBER: TBC		AUTHORISED DATE: 00/00/0000		REGISTERED ENGINEER NAME: JON BUCKLE		PRINCIPAL		SCALE: AS SHOWN @ A3	
DRAWN		DESIGNED DATE: XXXXXX		REGISTERED ENGINEER NAME: JON BUCKLE		PE REG. NO.: PE0002502		DATE: XXXXXX		BCS Consulting Engineers Pty. Ltd.		MACEDON RANGES SHIRE COUNCIL	
CHECKED		DATE: XXXXXX		79 AITKEN STREET, GISBORNE 3437		PHONE (03) 5428 3266		FERSFIELD ROAD RECONSTRUCTION		GISBORNE		SHEET: 3 OF X	
APPROVED		DATE: XXXXXX		DRAWING No.: 13111 - C3		REV: A		TYPICAL ROAD, KERB & PAVEMENT DETAIL					
1	2	3	4	5	6	7	8	9	10	11	12		



- 59A
1. A MRSC ASSET PROTECTION PERMIT MUST BE TAKEN OUT BEFORE ANY WORKS CAN COMMENCE WHATSOEVER.
 2. ALL SERVICES TO BE LOCATED & DEPTED BY CONTRACTOR PRIOR TO ANY WORKS WHATSOEVER. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY DAMAGE TO ANY SERVICES.
 3. ANY SERVICES SERVICING LOT ___ THAT CROSS BOUNDARY OF LOT ___ ARE TO BE REDIRECTED SO THAT THEY ARE WHOLLY CONTAINED WITHIN LOT ___.

DESIGNED		DATE: XXXXXX		PROJECT NUMBER		TBC		X		DATE: 00/00/0000	
DRAWN		DATE: XXXXXX		REGISTERED ENGINEER		NAME: JON BUCKLE		PE REG. NO.: PE0002502		DATE: XXXXXX	
CHECKED		DATE: XXXXXX		REGISTERED ENGINEER		NAME: JON BUCKLE		PE REG. NO.: PE0002502		DATE: XXXXXX	
APPROVED		DATE: XXXXXX		REGISTERED ENGINEER		NAME: JON BUCKLE		PE REG. NO.: PE0002502		DATE: XXXXXX	
FIRST ISSUE		XX/XX/XX		REG. ENG		J. BUCKLE					
REV	DESCRIPTION	DATE	REG. ENG	REV	DESCRIPTION	DATE	APPROVED	DESIGNED	DATE	PROJECT NUMBER	TBC
1				1							



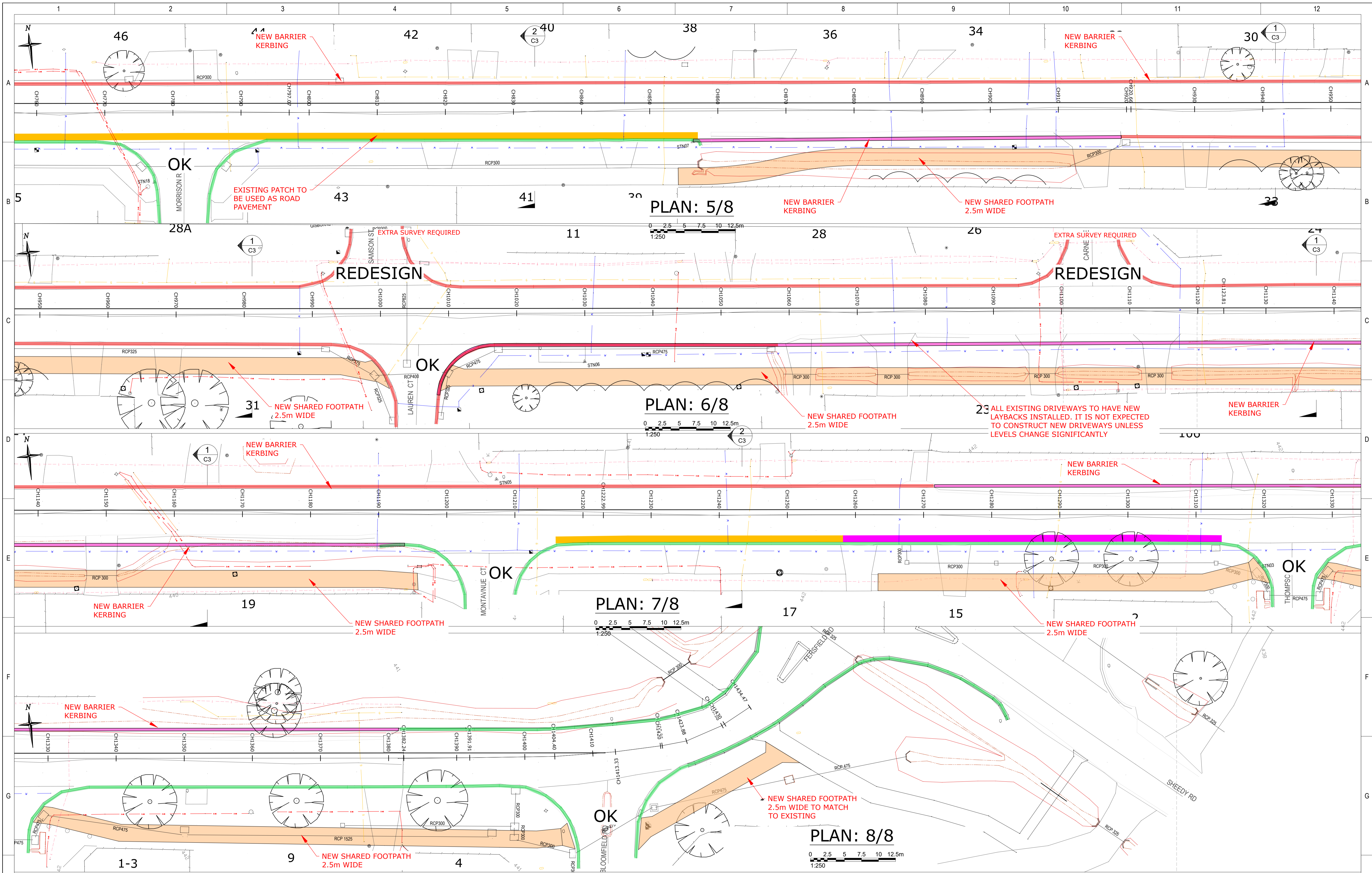
BCS Consulting Engineers Pty. Ltd.
 CIVIL - STRUCTURAL - SURVEYING - PROJECT MANAGEMENT
 79 AITKEN STREET, GISBORNE 5437
 PHONE (03) 5428 3266



PRINCIPAL

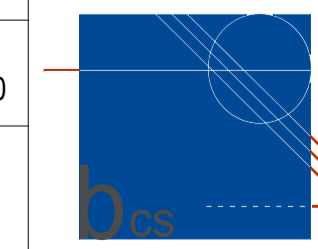
MACEDON RANGES SHIRE COUNCIL
FERSFIELD ROAD RECONSTRUCTION
 GISBORNE
 DESIGN PLAN 1/2

SCALE: AS SHOWN @ A3
 SHEET: 4 OF X
 DRAWING No.: 13111 - C4
 REV: A



REV	DESCRIPTION	DATE	REG. ENG	REV	DESCRIPTION	DATE	APPROVED
A	FIRST ISSUE	XX/XX/XX	J.BUCKLE				

DESIGNED	DATE: XXXX/XX/XX	PROJECT NUMBER	TBC
DRAWN	DATE: XXXX/XX/XX	AUTHORISED	X DATE: 00/00/0000
CHECKED	DATE: XX/XX/XX	REGISTERED ENGINEER	
		NAME: JON BUCKLE	
		PE REG. NO.: PE0002502	
		DATE: XX/XX/XX	



BCS Consulting Engineers Pty. Ltd.
 CIVIL · STRUCTURAL · SURVEYING · PROJECT MANAGEMENT
 79 AITKEN STREET, GISBORNE 3437
 PHONE (03) 5428 3266



PRINCIPAL

MACEDON RANGES SHIRE COUNCIL
FERSFIELD ROAD RECONSTRUCTION
 GISBORNE
 DESIGN PLAN 2/2

SCALE: AS SHOWN @ A3
SHEET: 5 OF X
DRAWING No.: 13111 - C5
REV: A