VLINE - FOREST CREEK BRIDGE

PROJECT No. MPM23P-04-27

ABUTMENT RECTIFICATION DESIGN OF SDMBGO-BR-124779

MPM ID: 7716

SUNBURY TO BENDIGO - 124.779 km TO MELBOURNE

TO CASTLEMAINE





C 15/11/24 ISSUED FOR FINAL DESIGN D HUGGETT R LANE B 17/09/24 ISSUED FOR PRELIMINARY DESIGN R PALLOT D HUGGETT A 15/07/2024 ISSUED FOR CONCEPT DESIGN R LANE R PALLOT D HUGGETT Revised By In Serv Rev. Date Checked Ind. Review



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CIVIL STRUCTURAL CASTLEMAINE SDMBGO-BR-124779 - FOREST CREEK BRIDGE ABUTMENT RECTIFICATION

COVER SHEET AND LOCALITY PLAN North.

Project Drawing Number CME-C0041						
		Drawn By				
PUBLIC	D ALCABAZA					
TRANSPORT VICTORIA	Checked By					
File Name		R PALLOT				
CME-C0041.dgn		Approved				
Sheet No.	01 of 01					
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Scale 1:1000

SCALE 1:1000

Designed By R LANE Ind. Review D HUGGETT

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DRAWING LIST

CIVIL STRUCTURAL DRAWINGS

DRAWING No. DESCRIPTION

CME_C0041 COVER SHEET AND LOCALITY PLAN
CME_C0042 DRAWING LIST
CME_C0043 GENERAL NOTES - SHEET 1
CME_C0044 GENERAL NOTES - SHEET 2

CME_C0045 STRUCTURAL DETAILS - SHEET 1
CME_C0046 STRUCTURAL DETAILS - SHEET 2

CME_C0047 DRAINAGE DETAILS

ASSOCIATED REPORTS

REPORT No.

TITLE

30043502-REP-0002

30043502 - VLINE - FOREST CREEK BRIDGE DESIGN REPORT

FINAL DESIGN

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CIVIL STRUCTURAL

CASTLEMAINE

SDMBGO-BR-124779 - FOREST CREEK BRIDGE

ABUTMENT RECTIFICATION

DRAWING LIST

Project Drawing Number

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Scale N.T.S. Sheet Size A3 Drawing Number CME_C0042

\\filer.nasuni.local\SMECANZ\Projects\\300435\\30043502 VLINE - CASTLEMAINE RAIL BRIDGES - FOREST CREEK AND MIDLAND HIGHWAY\100 TECHNICAL WORKING\FOREST CREEK BRIDGE CAD\1. DGN\CME_C0042.dgn

GENERAL NOTES

- G1. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ENGINEERING DRAWINGS, THE CONTRACT SPECIFICATION, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE WORK. ANY DISCREPANCY SHALL BE REPORTED TO THE DESIGNER BEFORE PROCEEDING WITH THE WORK.
- G2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS, V/LINE STANDARDS AND DTP STANDARDS SPECIFICATION SECTIONS FOR BRIDGEWORKS.
- G3. UNLESS NOTED OTHERWISE:
 - ALL DIMENSIONS ARE IN MILLIMETRES
- G4. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE CONFIRMED AND VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES. THE DRAWINGS SHALL NOT BE SCALED.
- G5. THE STRUCTURAL DRAWINGS DO NOT SHOW ALL DETAILS OF FIXTURES, INSERTS, SLEEVES, OPENINGS, ETC.
 REQUIRED BY THE VARIOUS TRADES. ALL SUCH DETAILS, INCLUDING RECESSES AND CHASES, MUST BE APPROVED BY
 THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- G6. DURING CONSTRUCTION THE STRUCTURES SHALL BE MAINTAINED IN A SAFE AND STABLE CONDITION AT ALL TIMES AND NO PART SHALL BE OVERSTRESSED.
- G7. ALL PROPRIETARY PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. ALTERNATIVE PRODUCTS HAVING EQUIVALENT FUNCTIONS OR PERFORMANCE MAY BE SUBMITTED FOR APPROVAL
- G8. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE REQUIRED DIMENSIONS OF THE INSTALLED ITEM.
- G9. THESE DRAWINGS DO NOT DETAIL TEMPORARY WORKS.
- G10. IF ABBREVIATIONS OTHER THAN THOSE IN ACCORDANCE WITH AS 1100.501 ARE USED AND THEIR MEANING IS NOT EXPLICITLY SHOWN ON DRAWINGS, REFER TO THE DESIGNER FOR CLARIFICATION PRIOR TO PROCEEDING.

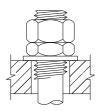
STEELWORK

- S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100-2020, AS 5100-2017, AS 4600-2018, AS 1554-2014, AS/NZS 5131-2016 AND THE CONTRACT SPECIFICATION.
- S2. SUPPLY STEEL ELEMENTS ACCORDING TO THE FOLLOWING TABLE, U.N.O:

	COMPONENT	STANDARD	GRADE
	HOT ROLLED SECTIONS	AS 3679	300
	STIFFENERS, CLEATS, GUSSETS ETC.	AS 3678	350L15
	CHS, RHS, SHS	AS 1163	C250
	FLAT BARS AND RODS	AS 3679	250L15
	HOT ROLLED STEEL FLATS	AS 1594	XF300

- S3. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL AND SHALL INDICATE:
 - ALL COPING HOLES AND CHAMFERED EDGES
 - SPLICE LOCATIONS WHICH ARE NOT INDICATED ON THE DESIGN DRAWINGS BUT WHICH ARE PROPOSED BY THE WORKSHOP.
 - ALL ATTACHMENTS WHICH ARE NOT INDICATED ON THE DESIGN DRAWINGS.
 - THE PROPOSED WELD PROCEDURES. WELDING SYMBOLS SHALL BE USED AND SHALL CONFORM TO AS 1101.
 - THE LOCATIONS OF AIR-VENT HOLES FOR GALVANISED COMPONENTS.
 - THE LOCATION AND SIZE OF HOLES.
- S4. MARKINGS WHICH ARE NECESSARY FOR THE IDENTIFICATION OF STEEL ELEMENTS AND WHICH CAUSE THE METAL SURFACE TO BE MODIFIED ARE PROHIBITED ON RAIL BRIDGES AS THESE MARKINGS CAN CONSTITUTE A DEFECT AND A FATIGUE RISK (E.G. PUNCHED LETTERS AND NUMBERS OR WRITING USING WELDING ARCHS). SUCH MARKS ARE PERMITTED ON OTHER STRUCTURES.
- S5. ALL COPES TO BE RADIUS = 20 mm U.N.O.
- S6. STEEL PLATES NOT DEFINED ON THE DRAWINGS SHALL BE 12 mm MINIMUM.
- S7. TEMPORARY ATTACHMENTS SHALL NOT BE LEFT IN PLACE AND SHALL BE REMOVED BEFORE THE STRUCTURE IS BROUGHT INTO SERVICE. WHERE TEMPORARY ATTACHMENTS ARE REMOVED, THE SURFACE SHALL BE PREPARED TO CLAUSE 5.9 ASINZS 1554.5
- S8. THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL, TIMBER OR OTHER ELEMENTS TO STEEL WHETHER OR NOT DETAILED ON THE DRAWINGS.
- S9. U.N.O. ALL STEELWORK SHALL BE HOT DIP GALVANISED. ALL EXPOSED STEELWORK SHALL BE PAINTED IN ACCORDANCE WITH DTP SPECIFICATION 631 WITH SYSTEM PSL1 AND COLOUR MATCHED ("HERITAGE RED") TO SUIT EXISTING STEELWORK PAINT SHALL BE COLOUR MATCHED ("HERITAGE RED") TO THE EXISTING BRICK ABUTMENT WALL
- S10. ITEMS SHOWN AS GALVANISED SHALL BE HOT-DIP GALVANISED IN ACCORDANCE WITH AS 1214, AS 1559, AS 4680, AS 4791 AND AS 4792 AFTER FABRICATION. TAP THREADED HOLES AFTER GALVANISING.
- S11. TO MAXIMISE THE INTEGRITY OF THE PROTECTIVE COATING (WHETHER PAINT OR GALVANISING) THE SHOP FABRICATOR SHALL GRIND ALL STEEL EDGES WHICH ARE TO BE PROTECTIVE-COATED TO A SMOOTH RADIUS OF 2 mm
- S12. REPAIR ANY SITE DAMAGE TO GALVANISING BY POWER TOOL CLEANING TO AS 1627.2, OR IF INACCESSIBLE, BY HAND TOOL CLEANING TO AS 1627.7 FOLLOWED BY SOLVENT CLEANING/DEGREASING TO AS 1627.1 AND BRUSH APPLY 2 COATS OF AN ORGANIC ZINC-RICH PRIMER EACH WITH 60 MICRONS DRY FILM THICKNESS OVERLAPPING SOUND METALLIC ZINC.
- S13. PASSIVATE GALVANISED STEEL IN CONTACT WITH CONCRETE BY DIPPING IN 0.2% SODIUM DICHROMATE SOLUTION.
- S14. BOLT DESIGNATION IS AS FOLLOWS:
 - 8.8/TB HIGH STRENGTH BOLT OF STRUCTURAL GRADE 8.8 TO AS 1252 FULLY TENSIONED AS A BEARING TYPE JOINT.
 - 8.8/TF HIGH STRENGTH STRUCTURAL BOLT OF STRENGTH GRADE 8.8 TO AS 1252 FULLY TENSIONED AS A FRICTION TYPE JOINT.
 - BOLTS DESIGNATED TB AND TF SHALL BE TENSIONED AS PER AS 5100.6
 - 8.8/S HIGH STRENGTH STRUCTURAL BOLTS OF STRENGTH GRADE 8.8 TO AS 1252 TIGHTENED USING A STANDARD WRENCH TO SNUG-TIGHT CONDITION.
 - $\hbox{-} 4.6/S \hbox{ COMMERCIAL BOLTS OF STRENGTH GRADE } 4.6 \hbox{ TO AS 1111 TIGHTENED USING A STANDARD WRENCH TO SNUG-TIGHT CONDITION.}$
- S15. PROVIDE BOLTS AND THREADED RODS OF SUFFICIENT LENGTH THAT AT LEAST TWO FULL THREADS ARE EXPOSED BEYOND THE NUT AFTER THE NUT HAS BEEN TIGHTENED. A MINIMUM OF ONE WASHER SHALL BE USED UNDER THE NUT IN ALL SITUATIONS. IF TIGHTENING IS CARRIED OUT AT THE HEAD AN ADDITIONAL WASHER SHALL BE USED UNDER THE HEAD.

S16. ALL LOCKNUTS SHALL BE HALF NUT LOCKNUTS. THE LOCKNUT SHALL BE THE BOTTOM NUT IN THE ASSEMBLED JOINT AS SHOWN BELOW. THE LOCKNUT SHOULD BE INSTALLED FIRST AND SNUG-TIGHTENED ONLY. THE STANDARD NUT IS THEN INSTALLED AND TIGHTENED ONLY. THE STANDARD NUT IS THEN INSTALLED AND TIGHTENED SO THAT THE THREADS IN THE LOCKNUT FIRST BEAR UPWARDS ON THE BOLT THREADS, THEN ARE FREE, THEN FINALLY BEAR DOWNWARDS ON THE BOLT THREADS WHILE THE THREADS ON THE TOP NUT BEAR UPWARDS ON THE BOLT THREADS. DURING TIGHTENING OF THE TOP NUT WITH A WRENCH. THE LOCKNUT SHOULD BE HELD TO PREVENT IT FROM TURNING.



BOLT WITH LOCKNUT DETAIL

S17 ALL BOLTS NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANISED IN ACCORDANCE WITH AS/NZS 4680

DESIGN REQUIREMENTS

GENERA

- D1. STRUCTURAL ELEMENTS SHOWN ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH AS 5100 (2017) BRIDGE DESIGN FOR THE FOLLOWING IMPOSED LOADINGS:
- D2. DESIGN CRITERIA NIST-2616
- D3. DESIGN RAILWAY TRAFFIC LOADS: 230LA
- D4. MULTIPLE TRACKS
 - FULL DEPTH CONCRETE SLEEPER
 - 60 kg RAIL
 - MAXIMUM BALLAST DEPTH BETWEEN THE TOP OF STEEL TROUGH AND THE SOFFIT OF SLEEPER IS 220 mm.

DESIGN LIFE:

D5. 100 YEARS FOR NEW STRUCTURAL ELEMENTS

FINAL DESIGN

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Consultant

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CIVIL STRUCTURAL
CASTLEMAINE
SDMBGO-BR-124779 - FOREST CREEK BRIDGE
ABUTMENT RECTIFICATION
GENERAL NOTES - SHEET 1

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TRANSPORT VICTORIA

File Name CME-C0043.dgn
Sheet No. 01 of 01

NOT FOR CONSTRUCTION

Scale NITS Sheet Size A3

Project Drawing Number

Drawing Number CME_C0043

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CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 5100-2017 AND THE CONTRACT SPECIFICATION.
- C2. CONCRETE SHALL BE FROM AN APPROVED SOURCE AND SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING STANDARDS:

BRIDGE DESIGN PART 5 CONCRETE AS 5100.5

PORTLAND CEMENT AS 3972 AS 1379 READY-MIXED CONCRETE AS 2758 1 CONCRETE AGGREGATES

- C3. MANUFACTURE AND DELIVERY OF CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATION AND VICROADS STANDARD SPECIFICATION.
- C4. CONCRETE SHALL BE SPECIAL CLASS PERFORMANCE CONCRETE AS SPECIFIED IN THE CONTRACT SPECIFICATION. CONCRETE GRADE AND MINIMUM COVER TO REINFORCEMENT SHALL BE AS NOTED BELOW U.N.O. ON THE

	CHARACTERISTIC CONCRETE COMPRESSIVE GRADE STRENGTH AT 28 DAYS (MPa)	1	CONCRETE COVER TO REINFORCEMENT (mm)			
		STRENGTH AT 28	EXPOSURE CLASSIFICATION	CAST AGAINST MASONRY	CAST AGAINST BLINDING	CAST AGAINST GROUND
CONCRETE WALL	VR 330/32	32	B1	45	55	75

- PRECAST DENOTES RIGID FORMWORK AND INTENSE COMPACTION
- CAST AGAINST FORMS DENOTES TIMBER AND CONCRETE FORMS WITH STANDARD COMPACTION
- COVER IS THE CLEAR DISTANCE BETWEEN ANY REINFORCING (INCLUDING FITMENTS) AND THE FACE OF THE STRUCTURAL ELEMENT
- FOR ALL EXTERNAL SURFACES, PROVIDE APPROVED BAR CHAIRS. NAILED TIE STEEL SYSTEM SHALL NOT BE USED TO TIE THE FORMS.
- THE COVERS SHALL BE MAINTAINED USING APPROVED BAR CHAIRS AT MAX 800 mm CENTRES U.N.O. IN SLABS BAR CHAIRS SHALL BE AT 800x800 mm MAXIMUM CENTRES. BAR CHAIRS SHALL BE PROVIDED ALONG THE EDGES OF ALL CONSTRUCTION JOINTS.
- EXTERNAL ELEMENTS ARE THOSE EXPOSED TO WEATHER, RAIN AND WATER PENETRATION
- COVER REQUIREMENTS ARE BASED ON EFFECTIVE, CONTINUOUS AND UNINTERRUPTED CURING AS PER AS 5100.5 CLAUSE 4.4.2.1.
- C5. ALL CEMENT SHALL BE "GP" GENERAL PURPOSE OR "GB" GENERAL PURPOSE BLENDED CEMENT OR "SR" SULPHATE RESISTANT CEMENT, AS REQUIRED AND SHALL COMPLY WITH AS 3972.
- C6. CONCRETE TEMPERATURE AT TIME OF PLACEMENT SHALL NOT BE LESS THAN 10°C OR GREATER THAN 32°C.
- C7. CONCRETE SHALL BE CURED AS PER THE REQUIREMENTS OF DTP SPECIFICATION 610
- C8. PLACEMENT, COMPACTION, CONSTRUCTION JOINTS, AND CURING OF CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATION.
- C9. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF AIR POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL
- C10. EXTERNAL FORMWORK MAY NEED TO BE RETIGHTENED AFTER COMPACTION AND BEFORE REUSE. THE INITIAL DISCHARGE FROM THE CONCRETE PUMP SHALL NOT BE USED UNTIL A CONSISTENT WORKABLE APPROVED MIX, IN ACCORDANCE WITH THE CONTRACT SPECIFICATION, IS DISCHARGED.

- C11. THE CONTRACTOR IS TO SEEK APPROVAL IN WRITING IF ANY ADMIXTURES ARE TO BE USED IN THE CONCRETE MIX. CALCIUM CHLORIDE IS NOT PERMITTED UNDER ANY CIRCUMSTANCES.
- C12. NO HOLES, CHASES OR EMBEDMENT OF PIPES AND CONDUITS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE
- C13 CONSTRUCTION JOINTS SHALL BE LOCATED AND DETAILED AS SHOWN ON THE DRAWINGS OR SHALL BE LOCATED AND FORMED TO THE APPROVAL OF THE ENGINEER AND IN ACCORDANCE WITH THE CONTRACT SPECIFICATION. CONCRETE AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE INTENTIONALLY ROUGHENED IN ACCORDANCE WITH THE CONTRACT SPECIFICATION TO EXPOSE THE COARSE AGGREGATE TO ENSURE A SATISFACTORY BOND BETWEEN ADJACENT CONCRETE SURFACES U.N.O. ALL CONCRETE SURFACES SHALL BE CLEAN AND FREE OF LAITANCE. THOROUGHLY MOISTEN THE ROUGHENED SURFACE IMMEDIATELY PRIOR TO PLACING CONCRETE. NO CONSTRUCTION JOINT SHOWN ON DRAWINGS SHALL BE OMITTED WITHOUT APPROVAL.
- C14. THE MINIMUM STRENGTH OF CONCRETE LOAD-RESISTING ELEMENTS SHALL BE PROVEN PRIOR TO THEIR LOADING BY CONCRETE CYLINDER TESTING. CONCRETE LOAD-RESISTING ELEMENTS SHALL ACHIEVE THE MORE STRINGENT MINIMUM STRENGTH REQUIREMENTS OF THE DRAWINGS AND THE CONTRACT
- C15. CURING OF CONCRETE SHALL COMMENCE IMMEDIATELY AFTER FINISHING OPERATIONS HAVE BEEN COMPLETED. THE CONCRETE SHALL BE CURED IN ACCORDANCE WITH THE CONTRACT SPECIFICATION.
- C16. SPOIL GENERATED ON SITE SHALL BE MINIMISED.

FINAL DESIGN

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CIVIL STRUCTURAL CASTLEMAINE SDMBGO-BR-124779 - FOREST CREEK BRIDGE ABUTMENT RECTIFICATION

GENERAL NOTES - SHEET 2

Up Location Down Location Datum East. East. MGA Z54 North. North. ID#

CME-C0044 Drawn By PUBLIC D' VICTORIA File Name Approved CME-C0044.dgn Sheet No. 01 of 01 NOT FOR CONSTRUCTION

Sheet Size A3

Project Drawing Number

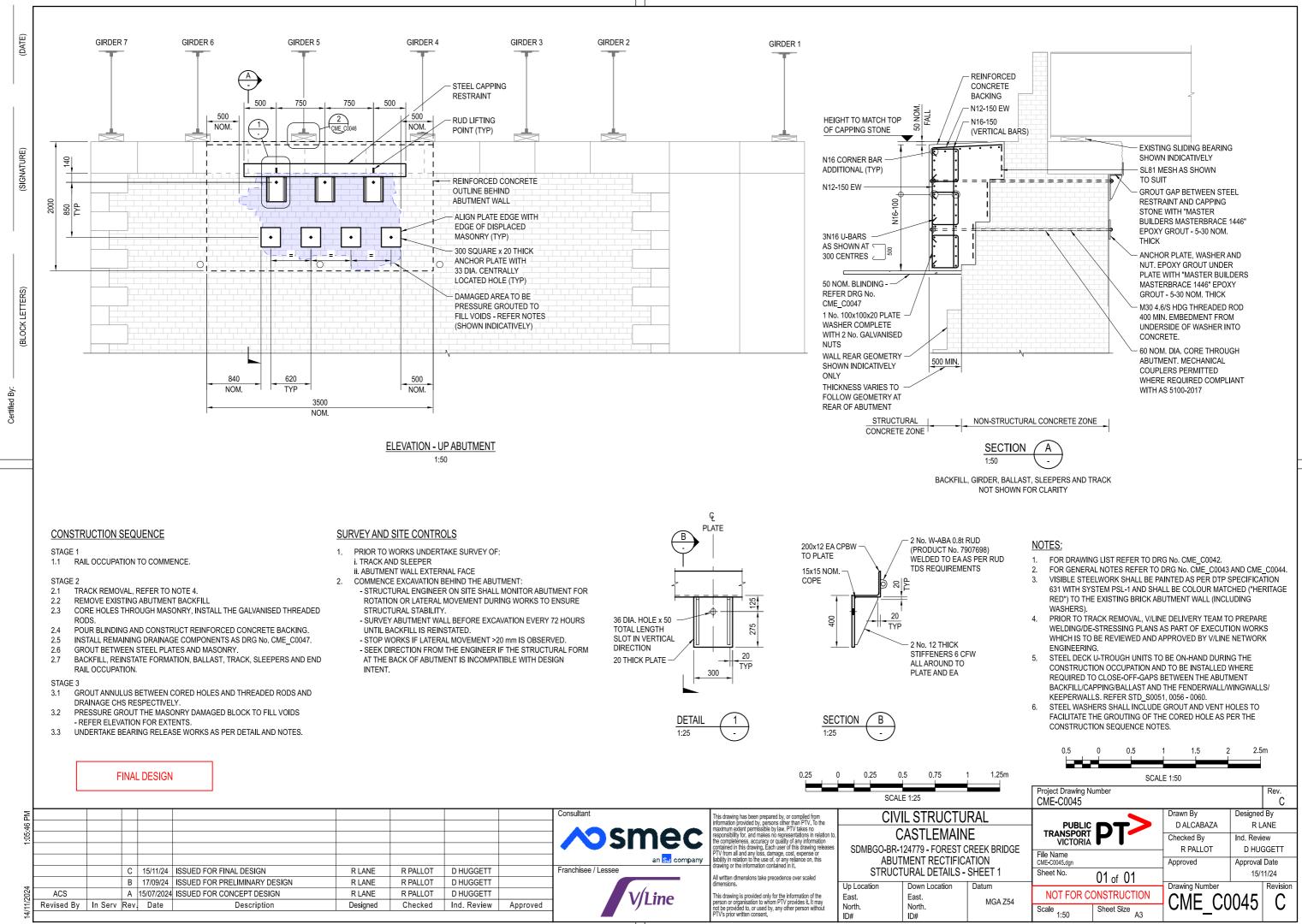
Scale N.T.S.

Designed By D ALCABAZA R LANE Checked By Ind. Review R PALLOT D HUGGETT Approval Date 15/11/24 Drawing Number Revision

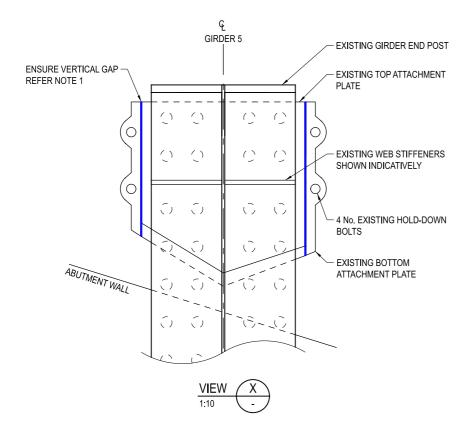
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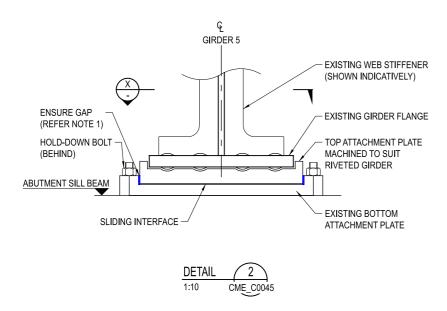
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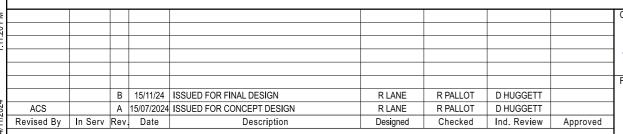


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INTERFACE (REFER NOTE 1)

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CIVIL STRUCTURAL **CASTLEMAINE** ABUTMENT STRENGTHENING

SITE PHOTOGRAPH (JUNE 2024) - GIRDER No. 5 N.T.S.

> SDMBGO-BR-124779 - FOREST CREEK BRIDGE STRUCTURAL DETAILS - SHEET 2

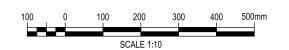
Up Location Down Location East. East. MGA Z54 North. North. ID#

BEARING WORKS

- 1. GIRDER No. 5 (ONLY) BEARING RESTRAINT PLATE GAPS: 1.1 - INSPECT THE INTERFACE BETWEEN THE SIDES OF THE BEARING BOTTOM RESTRAINT PLATE AND THE SIDES OF THE BEARING TOP RESTRAINT PLATE.
 - 1.2 WHERE THE HORIZONTAL GAP BETWEEN THE VERTICAL SIDES OF THESE ELEMENTS IS LESS THAN 5 mm ACROSS THE FULL DEPTH OF THE PLATES THEN LOCALLY GRIND BACK THE EXISTING METAL (IRON) TO PROVIDE THIS GAP ACCORDINGLY. FILL GAP WITH GENERAL PURPOSE (GP) GREASE.
- 2. ALL UP-ABUTMENT BEARINGS SHALL BE CLEANED, GREASED AND MADE FREE FROM OBSTRUCTIONS.

NOTES:

- 1. FOR DRAWING LIST REFER TO DRG No. CME-C0042.
- 2. FOR GENERAL NOTES REFER TO DRG No. CME-C0043 AND CME-C0044.



Project Drawing Number CME-C0046 В Drawn By Designed By PUBLIC D' D ALCABAZA R LANE Checked By Ind. Review R PALLOT D HUGGETT File Name Approved 3 Approval Date CME-C0046dan Sheet No. 15/11/24 01 of 01 Revision

NOT FOR CONSTRUCTION CME_C0046 Sheet Size A3 Scale 1:10

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