



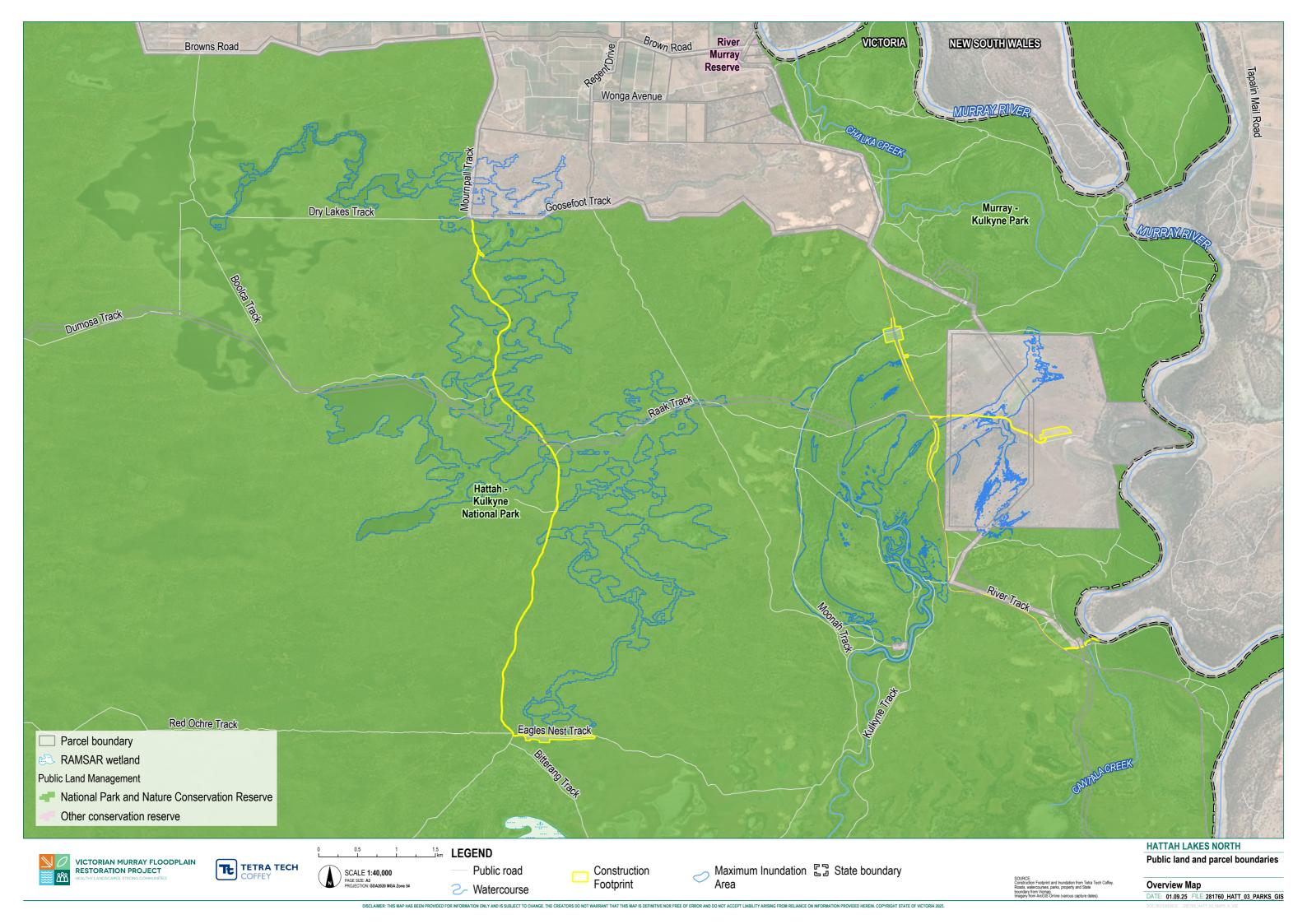


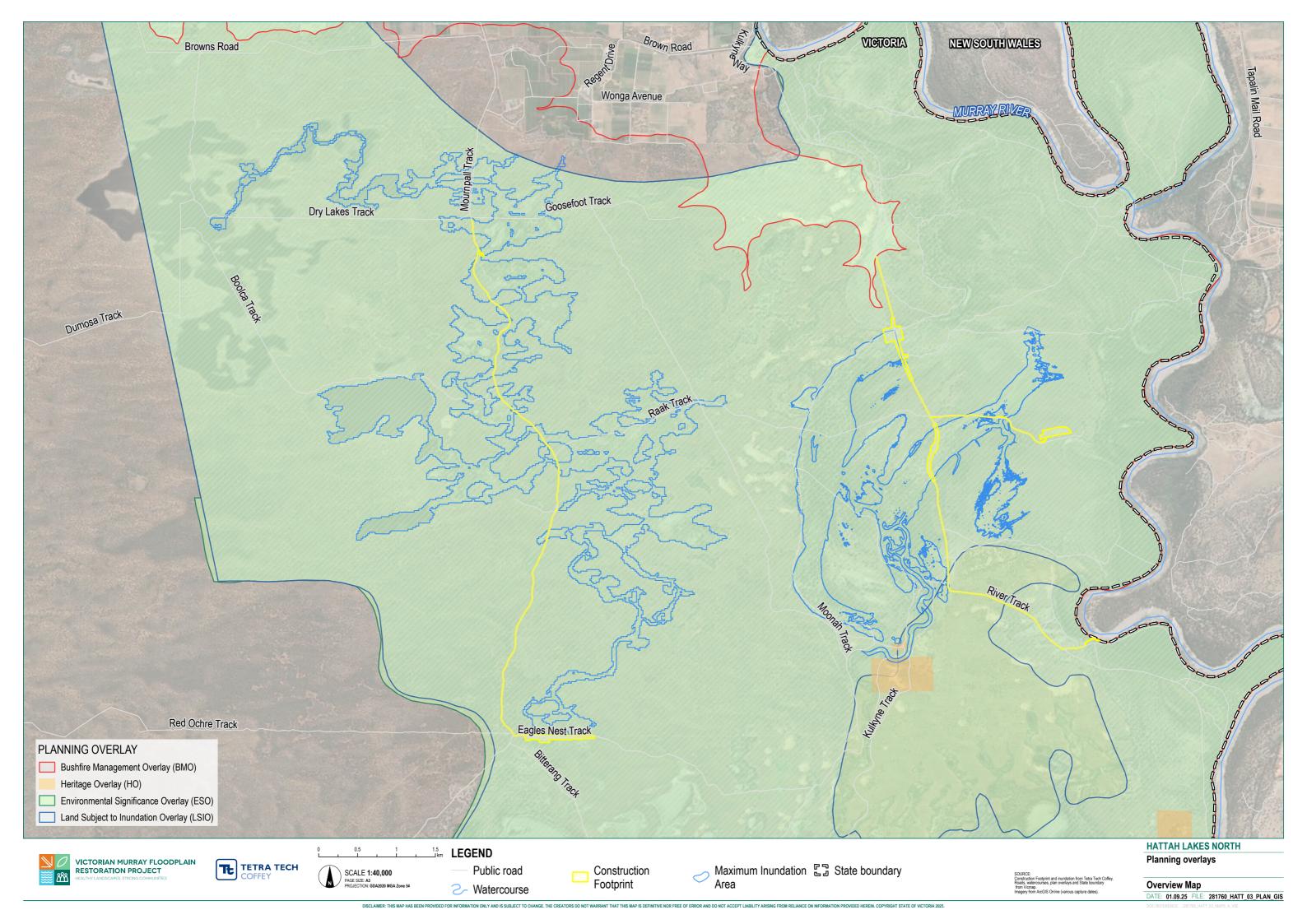
Environment Effects Statement Map Book

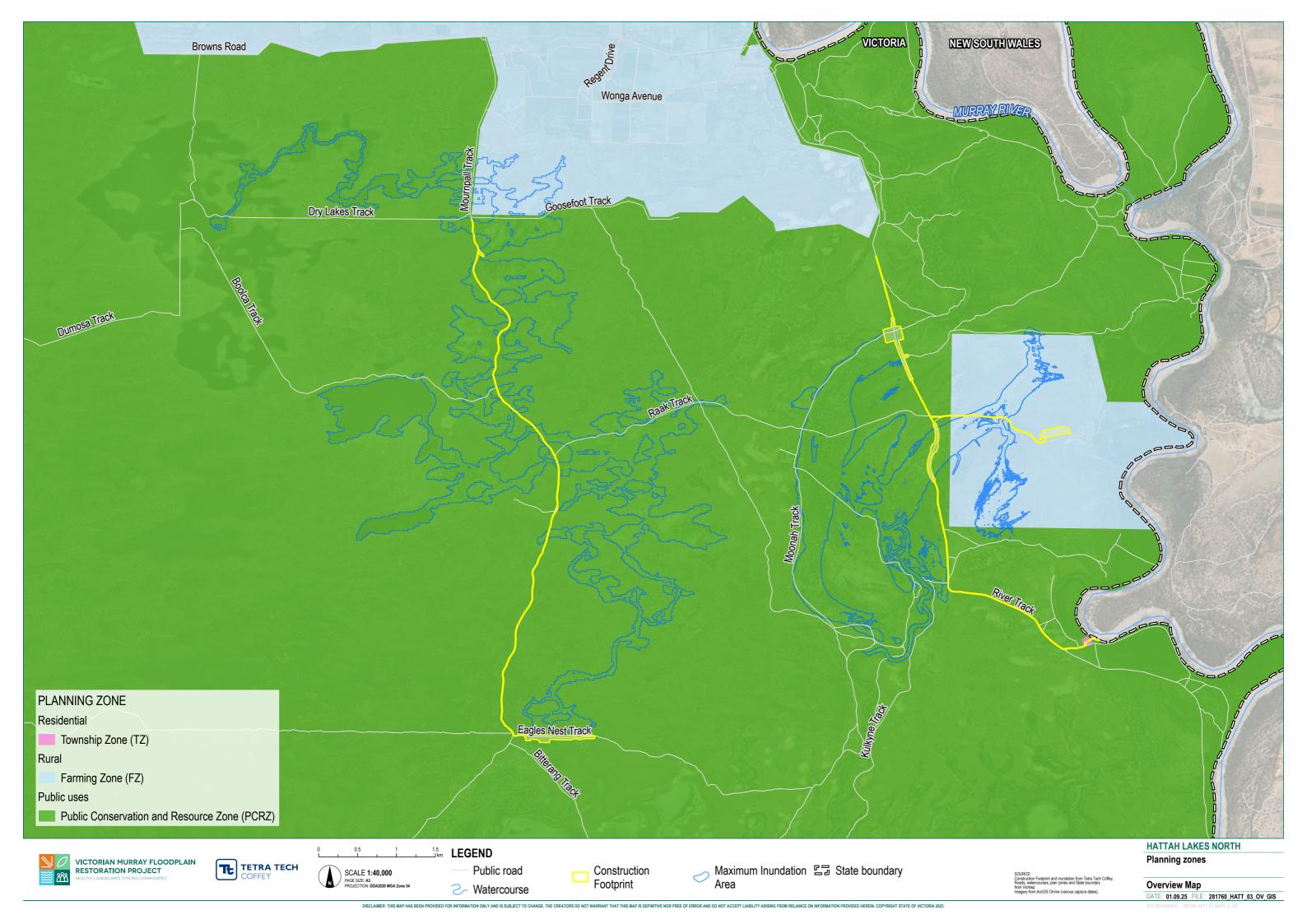
Attachment I - MAP BOOK **Hattah Lakes North**

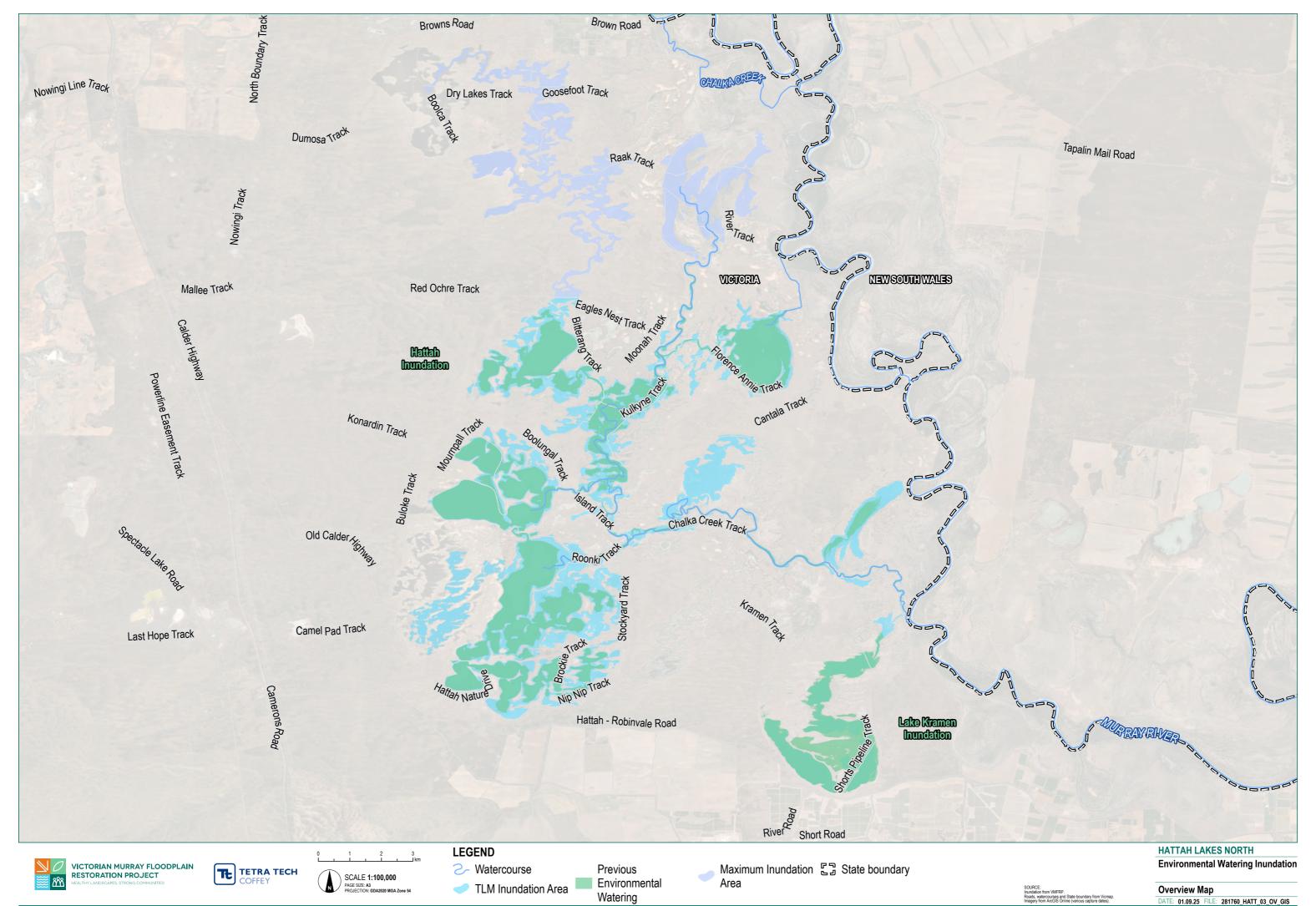
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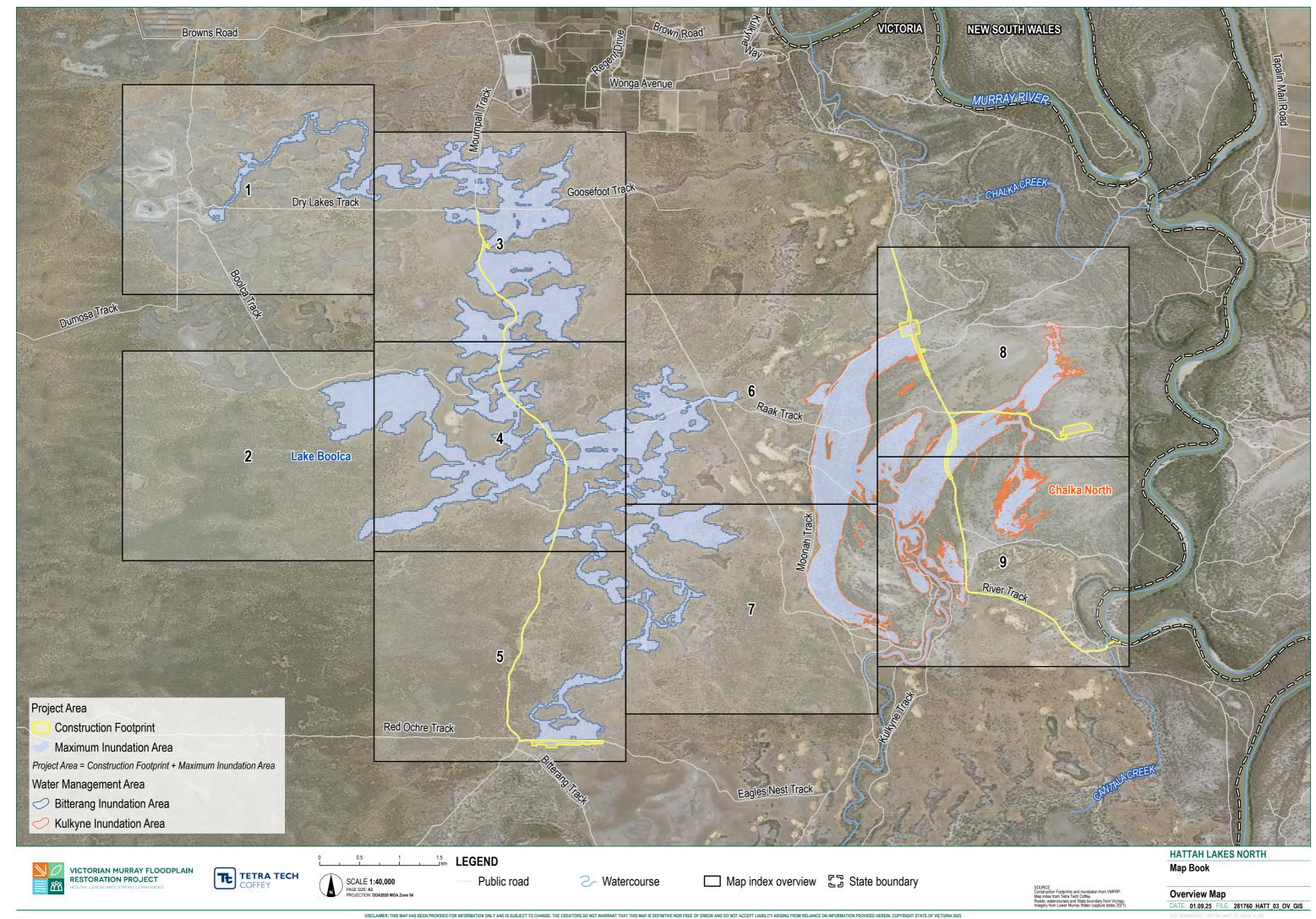




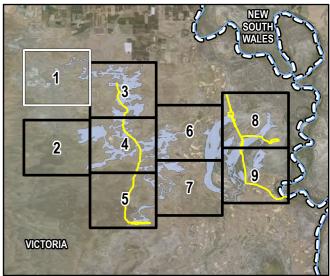












- Public road
- Construction Footprint
- Maximum Inundation Area
- 답급 State boundary

VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT







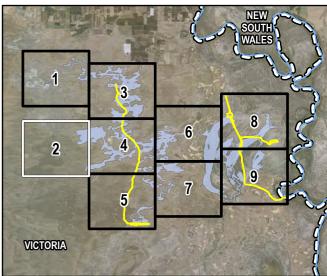
HATTAH LAKES NORTH

Map Book Map 1 of 23

Map 1

DATE: 29.08.25 FILE: 281760_HATT_03_F001_GIS





- Public road
- Construction Footprint
- Maximum Inundation Area
- 를 State boundary

VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT



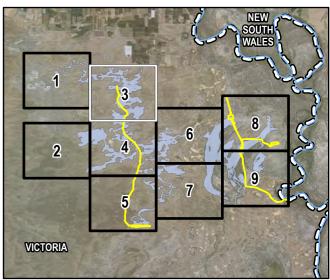


HATTAH LAKES NORTH Map Book Map 2 of 23

Map 2

DATE: 29.08.25 FILE: 281760_HATT_03_F002_GIS

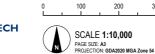




- Regulator
- Parks Victoria park furniture
- Parks Victoria signage
- Access track
- Public road
- Construction Footprint
- Maximum Inundation Area
- 도급 State boundary

VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT





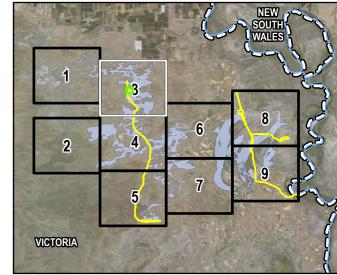
HATTAH LAKES NORTH

Map Book Map 3 of 23

Map 3

DATE: 29.08.25 FILE: 281760_HATT_03_F003_GIS







- Regulator
- Premilinary infrastructure design
- Access track
- Construction Footprint
- Maximum Inundation Area
- Parcel boundary
- 를 State boundary







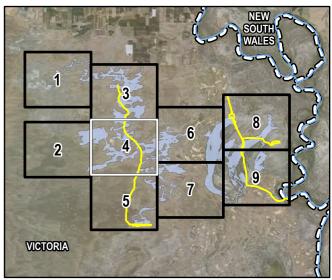
HATTAH LAKES NORTH

Map Book Map 4 of 23

Map 3A

DATE: 29.08.25 FILE: 281760_HATT_03_F003A_GIS





- Parks Victoria signage
- Access track
- Public road
- Construction Footprint
- Maximum Inundation Area
- 도급 State boundary

VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT





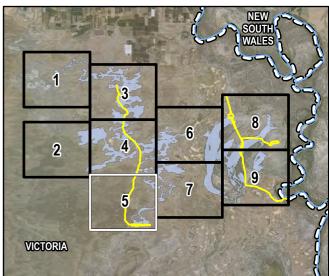
HATTAH LAKES NORTH

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Map 4

DATE: 29.08.25 FILE: 281760_HATT_03_F004_GIS





- Regulator
- Containment bank
- Access track
- Public road
- Construction Footprint
- Maximum Inundation Area
- 문물 State boundary







HATTAH LAKES NORTH

Map Book Map 6 of 23

, Construction Footprints and inundation from VMFRP. m Tetra Tech Coffey. ture and signage from Parks Victoria. courses and State boundary from Vicmap.

Map 5

DATE: 29.08.25 FILE: 281760_HATT_03_F005_GIS



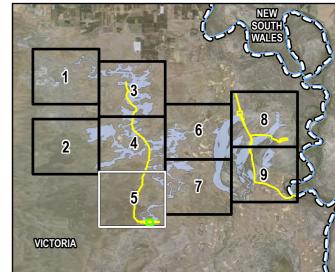


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Map 5A

DATE: 29.08.25 FILE: 281760_HATT_03_F005A_GIS







- Containment bank
- Premilinary infrastructure design
- Access track
- Construction Footprint
- Maximum Inundation Area
- Parcel boundary
- 도급 State boundary

VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT





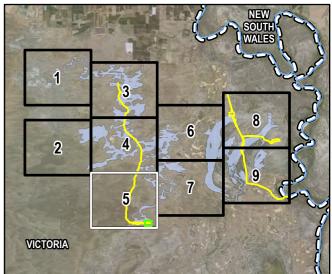
HATTAH LAKES NORTH

Map Book Map 8 of 23

Map 5B

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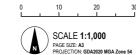




- Containment bank
- Premilinary infrastructure design
 - Access track
- Construction Footprint
- Maximum Inundation Area
- Parcel boundary
- 도급 State boundary



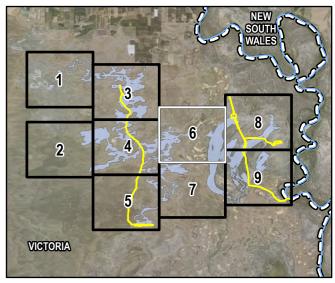




HATTAH LAKES NORTH

Map Book Map 9 of 23

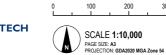




- Parks Victoria signage
 - Public road
- Construction Footprint
- Maximum Inundation Area
- 를 State boundary





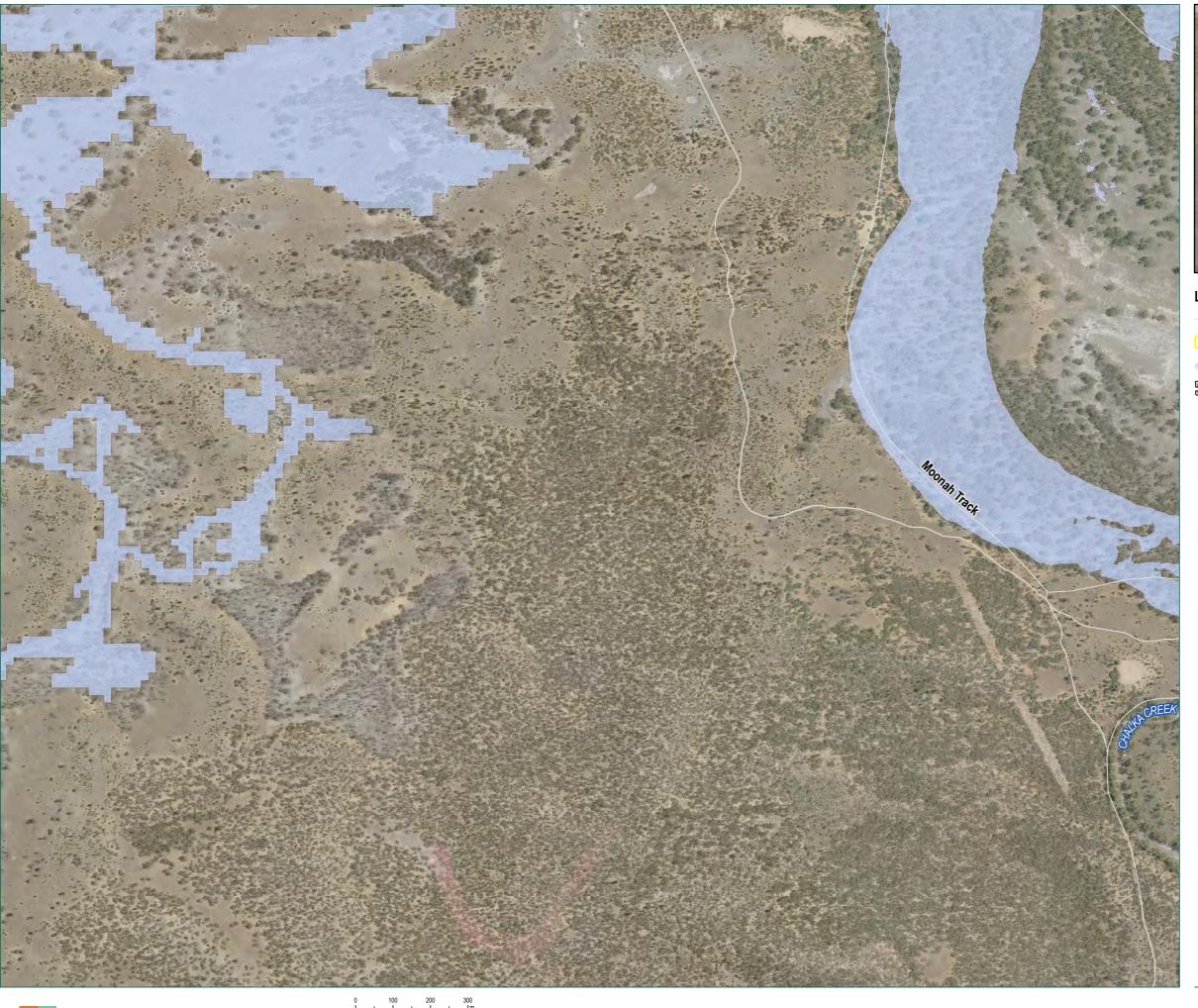


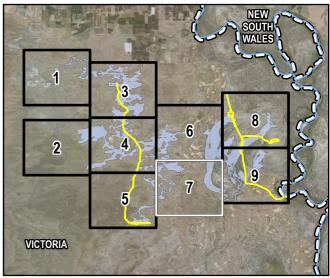
HATTAH LAKES NORTH

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Map 6

DATE: 29.08.25 FILE: 281760_HATT_03_F006_GIS

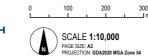




- Public road
- Construction Footprint
- Maximum Inundation Area
- 도급 State boundary

VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT



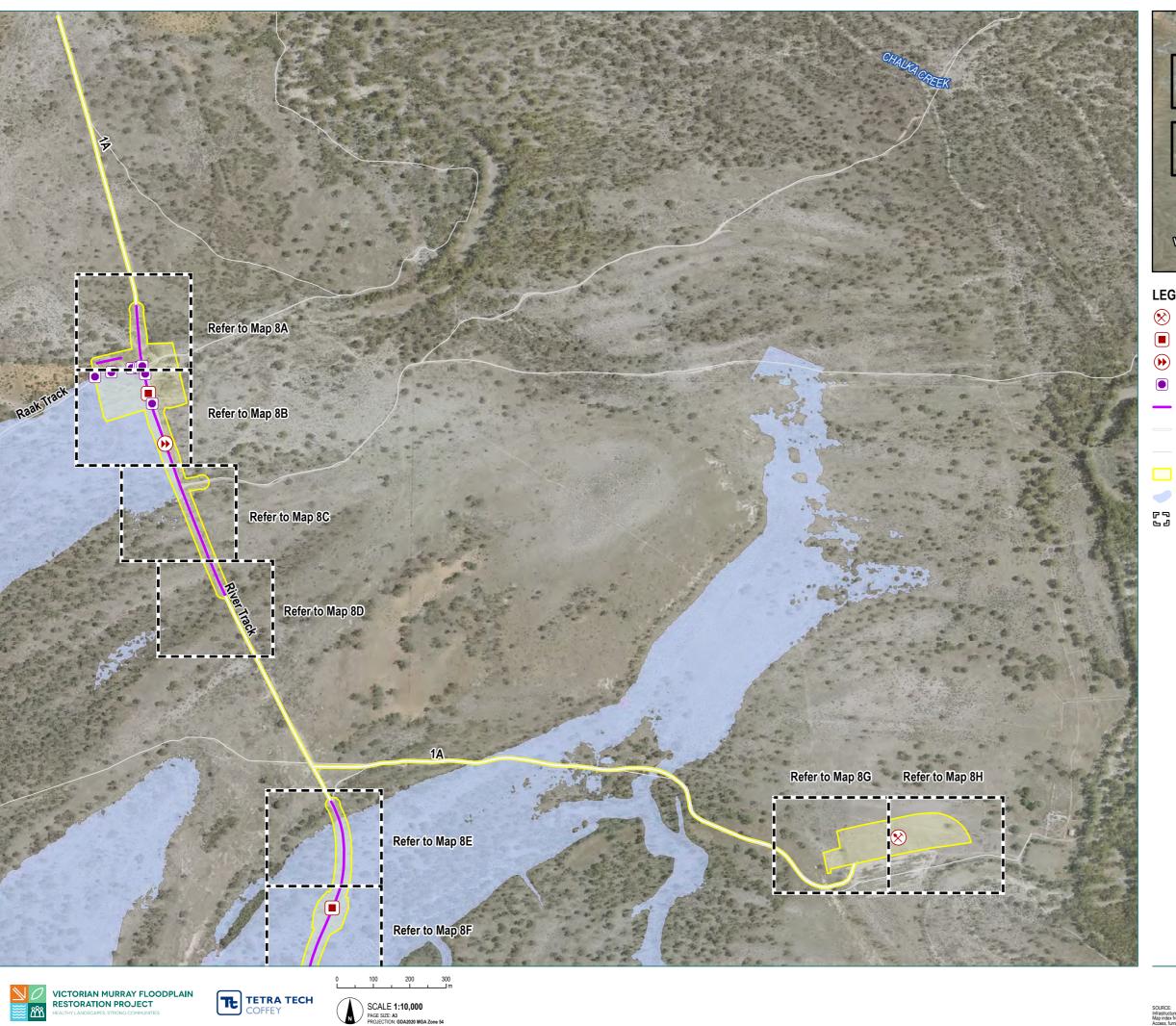


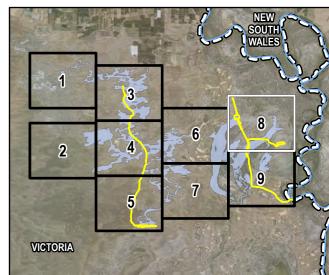
HATTAH LAKES NORTH

Map Book Map 11 of 23

Map 7

DATE: 29.08.25 FILE: 281760_HATT_03_F007_GIS



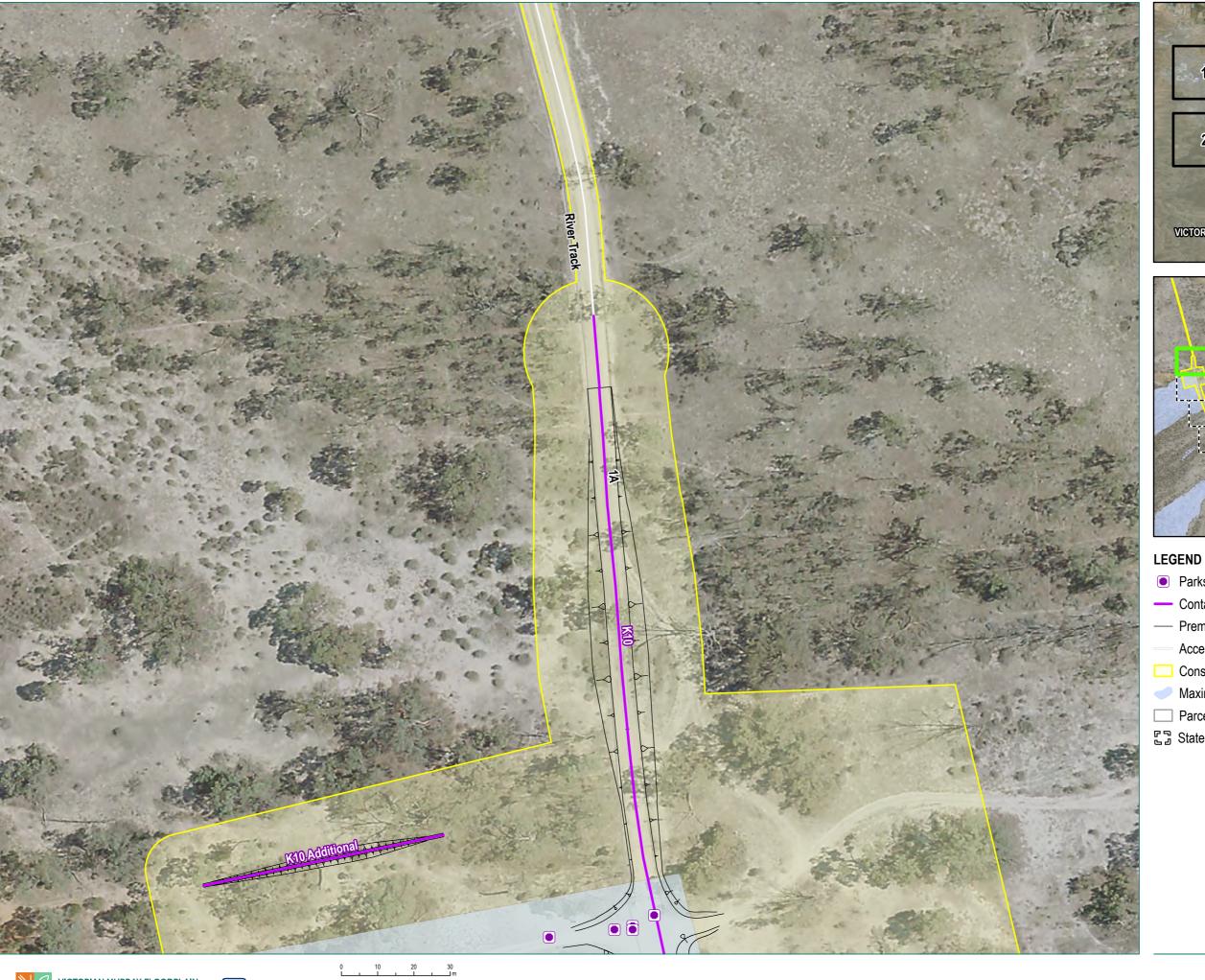


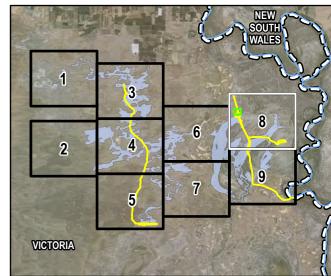
- **⊗** Borrow
- Regulator
- Spillway
- Parks Victoria signage
- Containment bank
- Access track
- Public road
- Construction Footprint
- Maximum Inundation Area
- 도급 State boundary

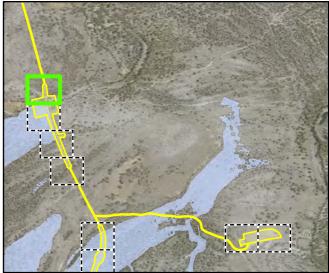
HATTAH LAKES NORTH

Map Book Map 12 of 23

Map 8







- Parks Victoria signage
- Containment bank
- Premilinary infrastructure design
- Access track
- Construction Footprint
- Maximum Inundation Area
- Parcel boundary
- 도급 State boundary





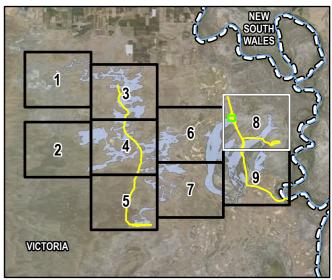




HATTAH LAKES NORTH

Map Book Map 13 of 23







- Regulator
- Spillway
- Parks Victoria signage
- Containment bank
- Premilinary infrastructure design
- Access track
- Construction Footprint
- Maximum Inundation Area
- Parcel boundary
- 도급 State boundary





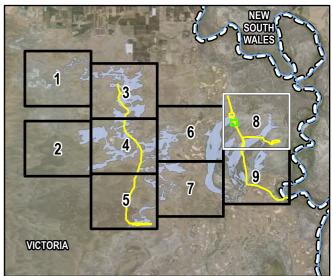


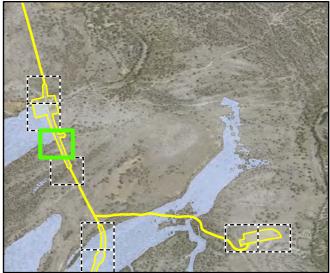
HATTAH LAKES NORTH

Map Book Map 14 of 23

Map 8B



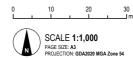




- Containment bank
- Premilinary infrastructure design
 - Access track
- Construction Footprint
- Maximum Inundation Area
- Parcel boundary
- 도급 State boundary



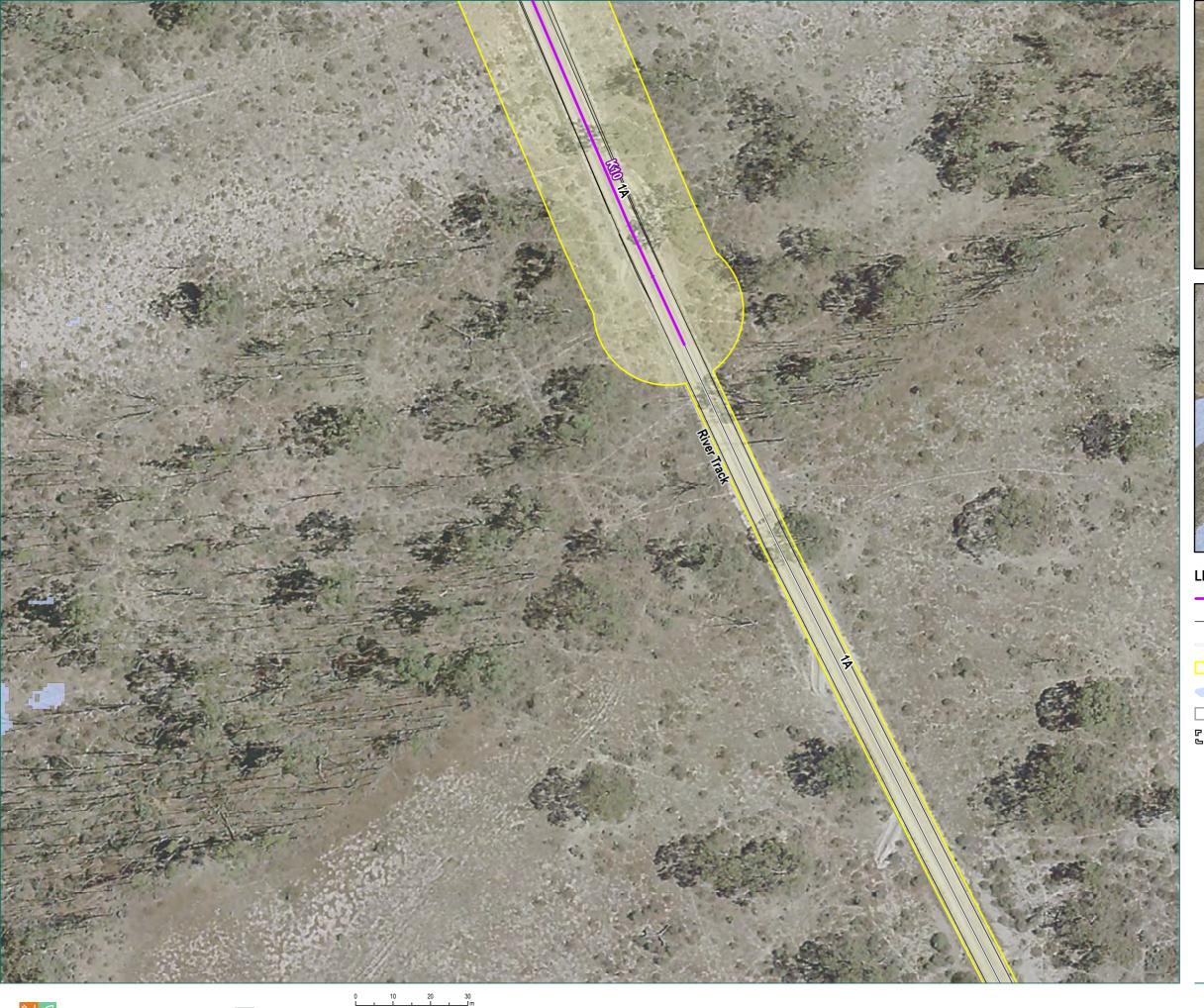


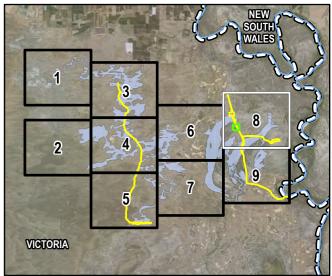


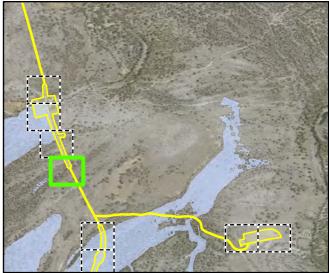
HATTAH LAKES NORTH

Map Book Map 15 of 23

Map 8C DATE: 29.08.25 FILE: 281760_HATT_03_F008C_GIS



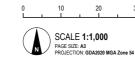




- Containment bank
- Premilinary infrastructure design
 - Access track
- Construction Footprint
- Maximum Inundation Area
- Parcel boundary
- 도급 State boundary





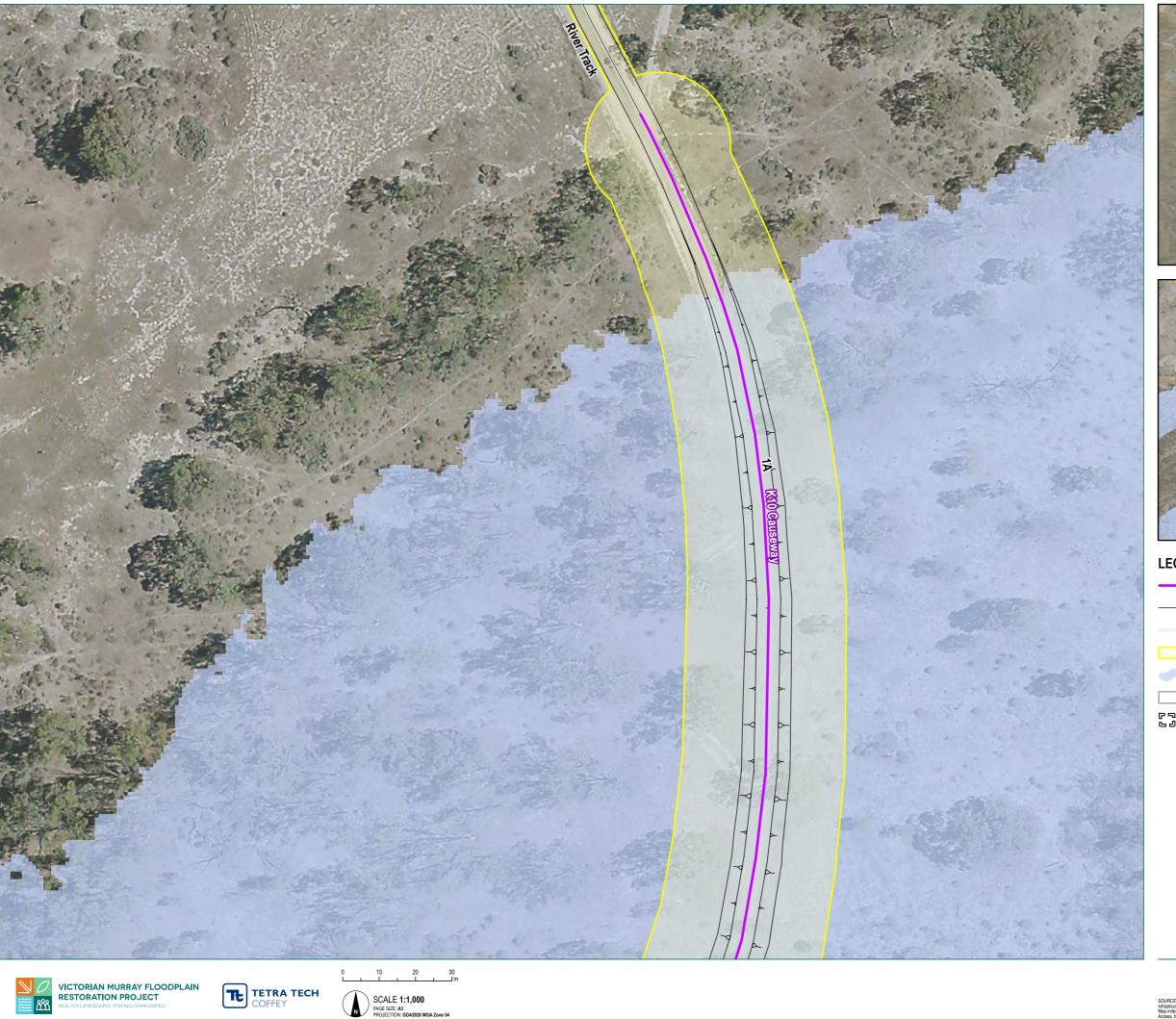


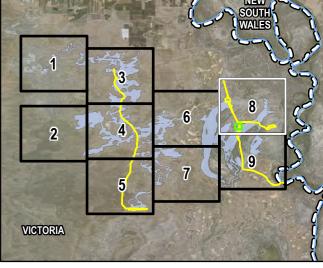
HATTAH LAKES NORTH

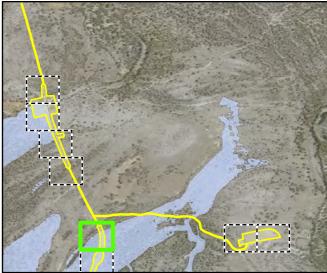
Map Book Map 16 of 23

Map 8D

DATE: 29.08.25 FILE: 281760_HATT_03_F008D_GIS







- Containment bank
- Premilinary infrastructure design
 - Access track
- Construction Footprint
- Maximum Inundation Area
- Parcel boundary
- 를 State boundary



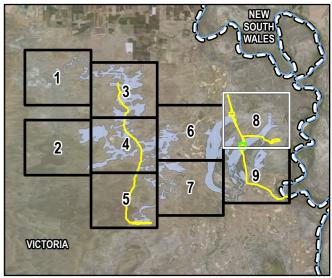
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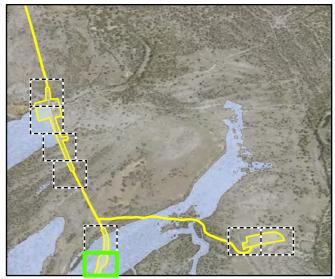
Map Book Map 17 of 23

Map 8E

DATE: 29.08.25 FILE: 281760_HATT_03_F008E_GIS







- Regulator
- Containment bank
- Premilinary infrastructure design
- Access track
- Construction Footprint
- Maximum Inundation Area
- Parcel boundary
- 문급 State boundary





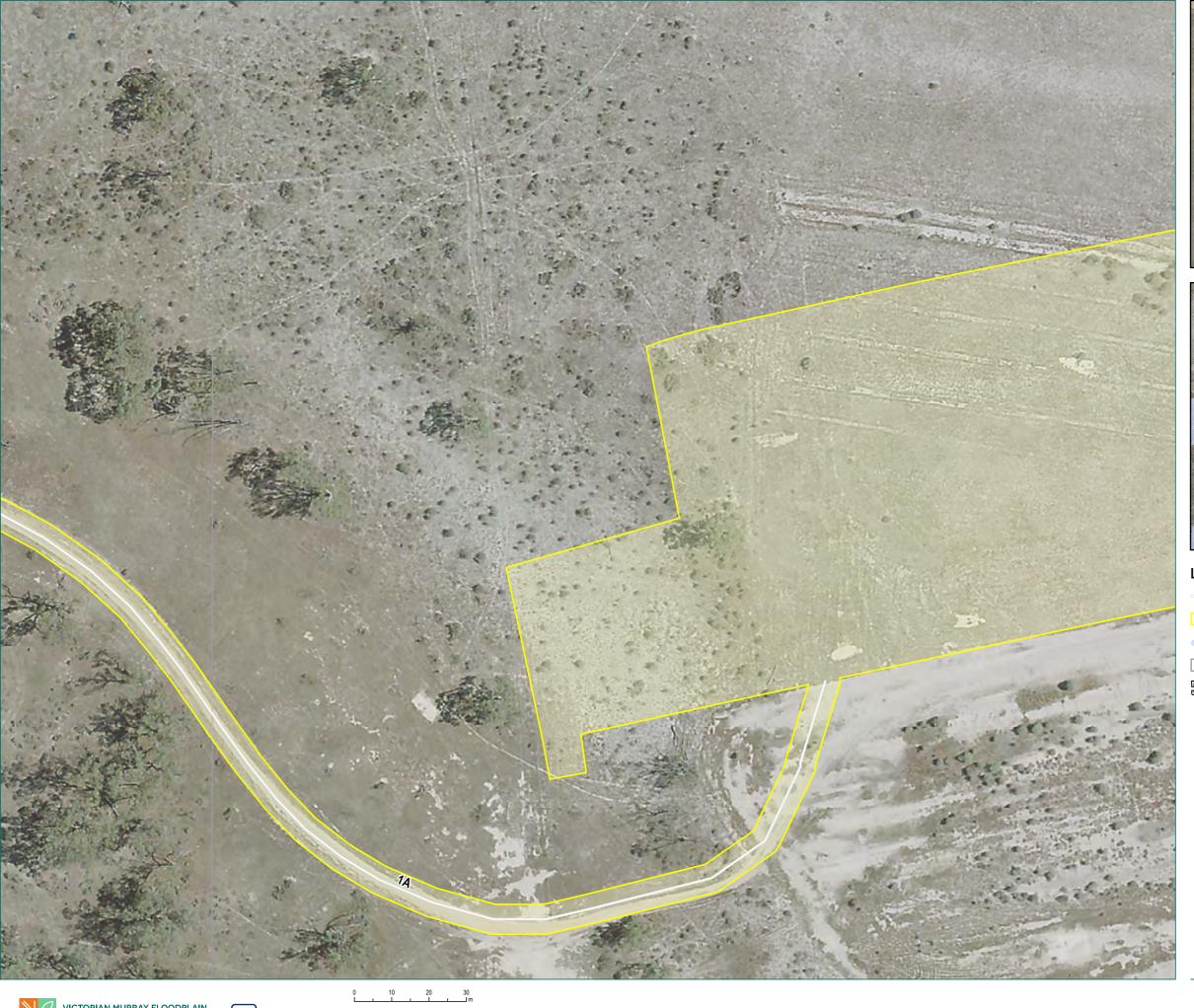


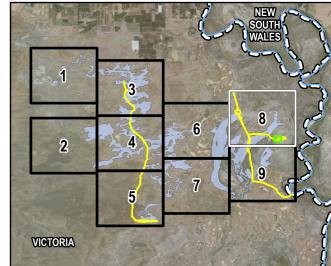
HATTAH LAKES NORTH

Map Book Map 18 of 23

Map 8F

DATE: 29.08.25 FILE: 281760_HATT_03_F008F_GIS



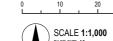




- Access track
- Construction Footprint
- Maximum Inundation Area
- Parcel boundary
- 도급 State boundary







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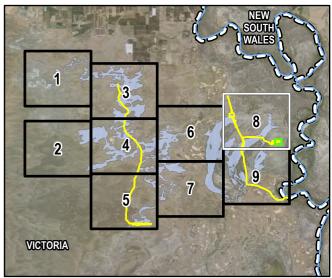
HATTAH LAKES NORTH

Map Book Map 19 of 23

Map 8G

DATE: 29.08.25 FILE: 281760_HATT_03_F008G_GIS







⊗ Borrow

Construction Footprint

Maximum Inundation Area

Parcel boundary

도급 State boundary



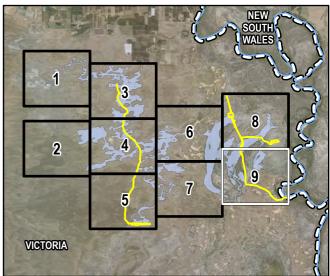




HATTAH LAKES NORTH

Map Book Map 20 of 23





- Water supply
- Parks Victoria signage
- Containment bank
- Access track
- Public road
- Construction Footprint
- Maximum Inundation Area
- 도급 State boundary

VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT





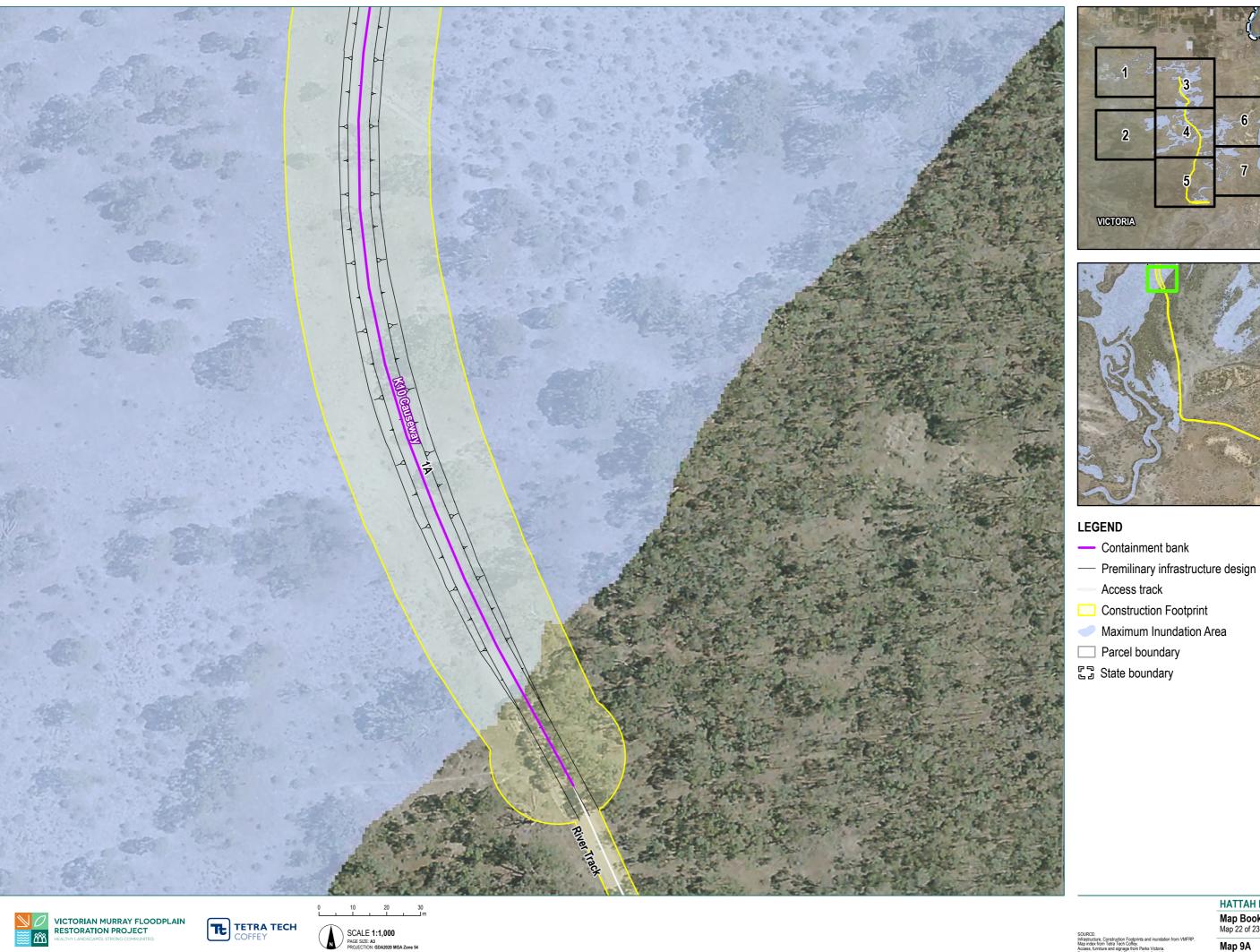


HATTAH LAKES NORTH

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Map 9

DATE: 29.08.25 FILE: 281760_HATT_03_F009_GIS





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Map 9A

DATE: 29.08.25 FILE: 281760_HATT_03_F009A_GIS



HATTAH LAKES NORTH

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Map 9B

DATE: 29.08.25 FILE: 281760_HATT_03_F009B_GIS

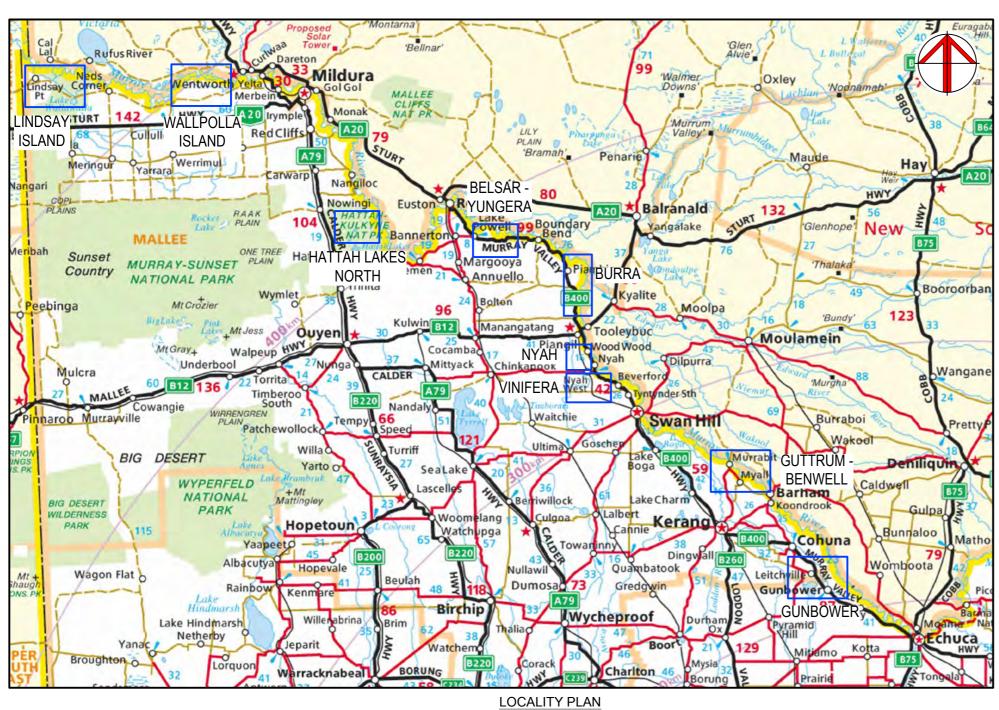


PROJECT STANDARD DRAWING SET



VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT

HEALTHY LANDSCAPES, STRONG COMMUNITIES



DRAWING LIST- PROJECT WIDE STANDARD DRAWINGS COVER SHEET LOCALITY PLAN AND DRAWING LIST

	GOVERNOILE I, EGOVERN I E WYWO DIV WING EIGH
00-3070-001-C-002	GENERAL NOTES - SHEET 1
00-3070-001-C-003	GENERAL NOTES - SHEET 2
00-3072-001-C-010	REGULATOR - MULTI BAY CULVERT REGULATOR - 1800W X 1800H TYPICAL DETAILS
00-3072-001-C-011	REGULATOR - MULTI BAY CULVERT REGULATOR WITH GUARDRAIL - 1800W X 1800H - TYPICAL DETAILS
00-3072-001-C-012	REGULATOR - MULTI BAY CULVERT REGULATOR - 1800W X 1500H - TYPICAL DETAILS
00-3072-001-C-013	REGULATOR - MULTI BAY CULVERT REGULATOR - 1800W X 1200H - TYPICAL DETAILS
00-3072-001-C-014	REGULATOR - MULTI BAY CULVERT REGULATOR - 1200W X 1200H - TYPICAL DETAILS
00-3072-001-C-015	REGULATOR - MULTI BAY CULVERT REGULATOR - 1200W X 900H - TYPICAL DETAILS
00-3072-001-C-016	REGULATOR - MULTI BAY CULVERT REGULATOR - 1200W X 600H - TYPICAL DETAILS
00-3072-001-C-017	REGULATOR - MULTI BAY TRAVERSABLE CULVERT - 1200W X 600H - TYPICAL DETAILS
00-3072-001-C-030	STANDARD REGULATOR APPROACH EMBANKMENT - BASIC ARRANGEMENT
00-3072-001-C-031	STANDARD REGULATOR APPROACH EMBANKMENT - ARRANGEMENT WITH VEHICLE PASSING
00-3072-001-C-032	STANDARD REGULATOR APPROACH EMBANKMENT - FLEXIBLE GUARDFENCE AND PASSING BAYS - DETA
00-3072-001-C-033	CONTAINMENT BANK - STANDARD PASSING BAY ARRANGEMENT
00-3073-001-C-001	CONTAINMENT BANK - TYPICAL SECTIONS - SHEET 1
00-3073-001-C-002	CONTAINMENT BANK - TYPICAL SECTIONS - SHEET 2
00-3073-001-C-010	SPILLWAY - CONCRETE - PLAN AND ELEVATION
00-3073-001-C-011	SPILLWAY - CONCRETE - SECTION AND DETAILS
00-3073-001-C-015	SPILLWAY - ROCK - PLAN AND ELEVATION
00-3073-001-C-016	SPILLWAY - ROCK - SECTION AND DETAILS
00-3074-001-C-001	HARDSTAND - TEMPORARY PUMPING SITE - TYPICAL ARRANGEMENT PLAN AND SECTION

NOT FOR CONSTRUCTION

RVET INFORMATION:

WELDATUM VIDE PM: PM

DESIGNED BY K.BUTLER

DATE 15/01/20

TITLE

JACOBS GROUP (AUSTRALIA) PTY LTD AND
GHD GROUP TRADING AS RS JOINT VENTURE
11th Floor, 452 Finders Street T. etc. 461 3 8688 3000
No. Description Drawn Review'd Approv'd Date Original plan page size A1

DUP (AUSTRALIA) PTY LTD AND

TRADING AS 83 JOINT VENTURE

TRADING AS R8 JOINT VENTURE

TRADING AS R8 JOINT VENTURE

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DRAWN BY
DESIGN CHK
DRAFT CHK
DRAFT CHK
REVIEWED
APPROVED
SCALE NTS

PROJECT STANDARD DRAWING SET

COVER SHEET, LOCALITY PLAN
AND DRAWING LIST

REV **A**

CLAIMER: THIS DRAWNING HAS BEEN PROVIDED FOR INFORMATION ONLY AND IS SUBJECT TO CHANGE. THE CREATORS DO NOT WARRANT THAT THIS DRAWNING IS DEFINITIVE NOR FREE OF ERROR AND DO NOT ACCEPT LIABILITY ARISING FROM RELIANCE ON INFORMATION PROVIDED HEREIN, COPYRIGHT STATE OF VI

00-3076-001-C-001 TRACKS - ACCESS TRACKS - TRACK TYPES

GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT
- ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL BE REFERRED TO THE SUPERINTENDENT.
- G3. DO NOT SCALE DIMENSIONS FROM DRAWINGS.
- UNLESS NOTED OTHERWISE: ALL DIMENSIONS ARE IN MILLIMETRES (mm) ALL LEVELS ARE IN METRES TO AUSTRALIAN HEIGHT DATUM (AHD).
- VERIFY ON SITE SETTING OUT DIMENSIONS AND EXISTING MEMBER SIZES SHOWN ON DRAWINGS BEFORE SHOP DRAWINGS, CONSTRUCTION AND
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICES PRIOR TO COMMENCING EXCAVATION.
- WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATION, CURRENT AUSTRALIAN STANDARDS INCLUDING ALL AMENDMENTS AND THE REQUIREMENTS OF ANY OTHER RELEVANT AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- MAINTAIN STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION AND PROVIDE TEMPORARY BRACING AS REQUIRED. ENSURE NO PART IS OVERSTRESSED, DO NOT PLACE OR STORE BUILDING MATERIALS ON STRUCTURAL MEMBERS WITHOUT ENGINEER'S APPROVAL
- STRUCTURAL WORK HAS BEEN DESIGN FOR FOLLOWING LOADS:
 - SOIL LOADS: 18 KN/CU.M WITH Ko = 0.6
 - DEAD LOADS:
- TO AS/NZS 1170.1 80 YEARS
- DESIGN LIFE: - LIVE LOAD:
- REFER DRAWINGS
- CONSTRUCTION: 15 kPa LATERAL PRESSURE
- VEHICULAR LOAD: SM1600 AS 5100
- G10. "UNO" DENOTES UNLESS NOTED OTHERWISE.

ENVIRONMENTAL MANAGEMENT PLAN

EMP1. THE CONTRACTOR SHALL CARRY OUT ALL WORKS IN ACCORDANCE WITH THE ENVIRONMENT MANAGEMENT PLAN

SITE PREPARATION

- SP1. THE CONTRACTOR SHALL NOT UNDERTAKE ANY CLEARING WORK OR ANY TYPE OF DISTURBANCE OUTSIDE THE SPECIFIED LIMITS OF WORK UNLESS APPROVED BY THE SUPERINTENDENT
- SP2. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR AND THE SUPERINTENDENT SHALL CONDUCT A JOINT INSPECTION OF THE SITE TO IDENTIFY AREAS TO BE CLEARED AND VEGETATION TO BE RETAINED AND

FOUNDATION EARTHWORKS

- REMOVE TOP SOIL CONTAINING GRASS ROOTS OR OTHER ORGANIC MATTER AND PUT ASIDE FOR REUSE.
- FOUNDATION TO BE EXCAVATED TO THE REQUIRED LEVEL WITH A MINIMUM OF TRAFFICKING OR DISTURBANCE OF THE UNDERLYING MATERIAL
- STRUCTURES HAVE BEEN DESIGNED FOR A SAFE WORKING BEARING PRESSURE OF 100 kPa AFTER PLACEMENT OF THE FOUNDATION IMPROVEMENT LAYERS.

CONCRETE GENERAL

- CONCRETE SHALL BE IN ACCORDANCE WITH AS3600 2018 CONCRETE STRUCTURES
- C2 EXPOSURE CLASSIFICATION FOR DURABILITY IS B1
- QUALITY OF CONCRETE IN ELEMENTS TO BE AS FOLLOWS: C3. BLINDING CONCRETE STRUCTURAL CONCRETE \$40
- MINIMUM COVER TO ALL REINFORCEMENT SHALL BE:

LOCATION	MINIMUM COVER (mm)
SURFACE EXPOSED TO AIR/WATER	50
SURFACE IN CONTACT WITH SOIL/BLINDING	70
BRIDGE DECK AT REGULATORS SLABS	50

- WATERSTOPS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS.
- CHAMFERS 25mm ARE REQUIRED ON EXPOSED CONCRETE CORNERS AND FILLETS
- THE USE OF CONCRETE ADMIXTURES WHERE REQUIRED SHALL BE SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT AND SHALL CONFORM TO AS1478.1.
- SURFACE FINISHES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- USE PLACEMENT METHODS THAT WILL MINIMISE PLASTIC SETTLEMENT AND SHRINKAGE CRACKING. LIMIT VERTICAL FREE FALL TO 1.5m BY USE OF CHUTES, ETC. KEEP CHUTES VERTICAL FULL AND IMMERSED IN PLACED CONCRETE PLACE CONCRETE IN LAYERS AND BLEND SUCCEEDING LAYERS BY COMPACTION MAINTAIN A PLASTIC CONCRETE EDGE BETWEEN CONSTRUCTION JOINTS. PROPERLY COMPACT CONCRETE USING MECHANICAL VIBRATORS (AND HAND METHODS IF REQUIRED) TO REMOVE AIR BUBBLES AND GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION OF CONCRETE TAKE CARE TO AVOID CONTACT RETWEEN VIBRATORS AND PARTIALLY HARDENED CONCRETE, FORMWORK OR REINFORCEMENT. DO NOT USE VIBRATORS TO MOVE CONCRETE ALONG FORMS.
- PLACEMENT OF CONCRETE DURING HOT OR COLD WEATHER SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
- C12. PROTECT FRESH CONCRETE FROM PREMATURE DRYING PARTICULARLY IN HOT, WINDY OR DRY (LOW HUMIDITY) CONDITIONS, EXCESSIVELY HOT OR COLD TEMPERATURES, RAIN, ETC. PROVIDE WIND BREAKS, MAINTAIN CONCRETE AT A REASONABLY CONSTANT TEMPERATURE WITH MINIMUM MOISTURE LOSS FOR
- C13. STRIP FORMWORK TO AS3600 CLAUSE 17.6. REMOVE FORM TIE BOLTS WITHOUT DAMAGING CONCRETE. PARTS OF BOLTS LEFT IN CONCRETE MUST NOT INTRUDE INTO COVER CONCRETE. FLUSH FILL HOLES USING MATERIAL MATCHING CONCRETE SURFACE COLOUR, STRENGTH AND DURABILITY.
- C14. CEMENT GROUT TO BE 1:3 CEMENT : SAND RATIO WITH SUFFICIENT WATER TO PRODUCE PLASTIC LOW SHRINK MIX.
- C15. KEEP ON SITE A LOG BOOK RECORDING EACH PLACEMENT OF CONCRETE INCLUDING DATE, CLIMATIC CONDITIONS, PORTION OF WORK, SPECIFIED GRADE AND SOURCE OF CONCRETE, DELIVERY DOCKET DATA, METHODS OF PLACEMENT AND COMPACTION, PROJECT ASSESSMENT CARRIED OUT, SLUMP MEASUREMENT AND
- CONSTRUCTION JOINTS OR POUR BREAKS WHERE NOT SHOWN ON THE DRAWINGS SHALL BE LOCATED AND FORMED TO THE APPROVAL OF THE SUPERINTENDENT.
- WHERE SCABBLED SURFACES ARE SHOWN ON THE DRAWING, CONCRETE SURFACES AGAINST WHICH FRESH CONCRETE IS TO BE PLACED SHALL BE SCABBLED CLEANED AND DAMPENED WITH WATER IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE.
- C18. CONSTRUCTION SUPPORT PROPPING SHALL BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.

FORMWORK

- ALL FORMWORK TO BE CLASS 3 IN ACCORDANCE WITH AS 3610.
- ALL FORMWORK TO REMAIN IN PLACE UNTIL THE CONCRETE HAS DEVELOPED SUFFICIENT STRENGTH TO BE SELF SUPPORTING.
- IF FORMWORK REMOVED/CRACKED PRIOR TO THE END OF THE CURING PERIOD, THEN CURING CONDITIONS SHALL BE MAINTAINED.

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DESIGNED BY N.PAYNTER DATE 16/01/20 PROJECT WIDE STANDARD DRAWING DATE 16/01/20 DRAWN BY M.WOOTTEN DESIGN CHK DATE **GENERAL NOTES** DATE SHEET 1 REVIEWED 00-3070-001-C-002 Α SCALE NTS SHEET

REINFORCEMENT

- REINFORCEMENT SHOWN ON THE DRAWINGS IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARII Y SHOWN IN TRUE PROJECTION
- R2. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN ON THE DRAWINGS OR AS OTHERWISE APPROVED BY THE SUPERINTENDENT. WHERE THE LAP LENGTH IS NOT SHOWN IT SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT, BAR LAPS IN MILLIMETRES ARE TO BE

BAR SIZE	VERTICAL	HORIZONTAL ①	HORIZONTAL ②
N12	400	400	500
N16	500	500	700
N20	700	700	900
N24	900	900	1150
N28	1200	1200	1500
N32	1500	1500	1900

- 1) HORIZONTAL BARS WITH LESS THAN 300mm CONCRETE CAST BELOW THE BAR.
- (2) HORIZONTAL BARS WITH MORE THAN 300mm CONCRETE CAST BELOW THE BAR.
- BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF
- R4. REINFORCEMENT SYMBOLS:
- GRADE 500 DEFORMED REINFORCING BARS, DUCTILITY CLASS N TO AS 4671.
- GRADE 250 PLAIN REINFORCING BARS TO AS 1302.
- HARD DRAWN STEEL REINFORCING WIRE, GRADE 500 DUCTILITY CLASS L TO AS 4671.
- TM HARD DRAWN STEEL TRENCH MESH, GRADE 500 DUCTILITY CLASS L TO AS 4671.
- RECTANGULAR RIB MESH, GRADE 500 DUCTILITY CLASS L TO AS 4671.
- SL SQUARE RIB MESH, GRADE 500 DUCTILITY CLASS L TO AS 4671. THE NUMBERS FOLLOWING THE BAR SYMBOL INDICATE THE NOMINAL BAR DIAMETER IN MILLIMETRES AND SPACING
- REINFORCEMENT ABBREVIATIONS
- FF FACH FACE
- NF NEAR FACE
- FF FAR FACE
- FW EACH WAY
- B or BTM BOTTOM

A ISSUED FOR REVIEW

- CP CENTRAL
- I FNGTH VARIES ١V
- R6. WELDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE SUPERINTENDENT
- ALL REINFORCING BARS SHALL BE FIRMLY SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL REINFORCEMENT SHALL BE SECURELY TIED WITH WIRE TIES AND ALL TIE ENDS SHALL BE TURNED INWARD CLEAR OF THE COVER ZONE.
- TIE WIRE SHALL NOT BE NAILED TO THE FORMS. REINFORCING BARS SHALL NOT BE USED TO KEEP FORMS APART AND A THROUGH TIE STEEL SYSTEM MAY BE USED TO TIE THE FORMS PROVIDED THAT THE FORMED HOLE IS FULLY FILLED WITH NON SHRINK CEMENTITIOUS GROUT
- FABRIC SHALL BE LAPPED SUCH THAT THE TWO OUTERMOST WIRES OF ONE SHEET OVERLAP THE TWO OUTERMOST WIRES OF THE OTHER SHEET BY 25mm MINIMUM AS SHOWN BELOW.



- R10. MESH SHALL NOT BE LAID ON THE GROUND AND PULLED INTO POSITION THROUGH THE CONCRETE
- R11. CLEAR COVER TO REINFORCEMENT SHALL BE AS SPECIFIED IN C4.
- WHERE DISTRIBUTION BARS TO MAIN REINFORCEMENT ARE NOT SHOWN ON THE DRAWINGS, PROVIDE MINIMUM N16-300, LAPPED 500mm AT SPLICES.
- ALL RE-ENTRANT CORNERS OF PENETRATIONS THROUGH WALLS AND SLABS SHALL BE TRIMMED USING MINIMUM 2N12 DIAGONAL CORNER BARS 1200mm LONG.
- R14. REINFORCEMENT SET-OUT DIMENSIONS ARE SHOWN IN RELATION TO PIER CENTERLINES. QUARTER SPAN POINTS OR WALL / BEAM EDGES U.N.O.
- R15. REINFORCING BARS SHALL BE EVENLY DISTRIBUTED THROUGH THE WIDTH OF THE STRIP U.N.O.

- R16. REINFORCEMENT SHALL NOT BE CUT OR BENT ON SITE UNLESS APPROVED BY THE SUPERINTENDENT THE REINFORCEMENT CAN ONLY BE HEATED IF APPROVED IN WRITING BY THE SUPERINTENDENT.
- AT SLAB EDGES INCLUDING CONSTRUCTION AND OTHER JOINTS, AT LEAST ONE REINFORCING BAR OR FABRIC WIRE SHALL BE LOCATED PARALLEL TO AND WITHIN 75mm OF THE SLAB EDGE
- AT PENETRATIONS WITH DIMENSIONS LESS THAN 400mm DO NOT CUT REINFORCEMENT, RATHER GATHER REINFORCEMENT TO EACH SIDE OF PENETRATION U.N.O. ON THE PLANS. AT PENETRATIONS WITH DIMENSIONS LESS THAN 600mm LAY REINFORCEMENT IN REQUIRED POSITION AND CUT OUT TO SUIT PENETRATION. PROVIDE ADDITIONAL BARS TO MATCH THE SIZE, LENGTH AND NUMBER OF BARS CUT, AND PLACE EQUALLY ON EACH SIDE OF THE PENETRATION U.N.O. ON PLANS.
- R19. CONCRETE SHALL NOT BE DELIVERED UNTIL AFTER REINFORCEMENT INSPECTION AND FINAL APPROVAL IS OBTAINED FROM THE SUPERINTENDENT.

SHEET PILING GENERAL

- THE CONTRACTOR SHALL SUPPLY AND INSTALL THE SPECIFIED SHEET PILE PROFILE IN THE DRAWINGS OR APPROVED EQUIVALENT.
- ANY ALTERNATIVE SHEET PILE PROFILE PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE SUPERINTENDENT FOR APPROVAL
- THE DIMENSIONS OF THE STRUCTURE TO ACCOMMODATE THE SELECTED PILE PROFILE SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.
- INTERLOCK SEALS SHALL BE APPLIED AT ALL INTERLOCKS.
- STEEL SHEET PILES SHALL BE HOT ROLLED SECTIONS MANUFACTURED IN ACCORDANCE WITH AS 3679.1

EARTHWORKS

E1. ALL EARTHWORKS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE

STRUCTURAL STEELWORK

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100 AND THE SPECIFICATION.
- ROLLED STEEL SECTIONS SHALL BE GRADE 300 COMPLYING WITH AS3679 U.N.O.
- BOLTS AND NUTS TO AS1252 GRADE 8.8/S U.N.O.
- SHS, RHS, AND CHS SHALL BE GRADE 350 AND COMPLY WITH AS1163, U.N.O.
- ALL BOLTS, NUTS, WASHERS AND COUPLERS SHALL BE HOT DIP GALVANISED.
- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS U.N.O.
- ALL STEELWORKS SHALL BE HOT DIP GALVANISED AFTER FABRICATIONS U.N.O.
- GALVANISING SHALL COMPLY WITH AS/NZS 4680.
- WELDING ELECTRODES SHALL BE E49XX U.N.O AND WELD CATEGORY SP AND COMPLY WITH AS/NZS 1554 - PART 1 U.N.O.
- SS10. ALL BOLTED CONNECTIONS SHALL HAVE 10 PLATE AND 2-M20 8.8/S BOLTS MIN. U.N.O.

STRUCTURAL ALUMINIUM

- SL1. ALL ALUMINIUM TO BE IN ACCORDANCE WITH AS 1664.
- SL2. WELDING TO BE IN ACCORDANCE WITH AS 1665.
- SL3. REMOVE BURS AND SHARP CORNERS FROM ALL EDGES.
- ALL CONNECTIONS TO DISSIMILAR MATERIALS TO BE ELECTRICALLY ISOLATED USING A

STAINLESS STEEL

- SS1. STAINLESS STEEL STRUCTURAL COMPONENTS TO BE GRADE 316L.
- SS2. STAINLESS STEEL BOLTS AND ANCHORS SHALL BE GRADE 316. NUTS AND WASHERS SHALL BE GRADE 304 UNLESS STATED OTHERWISE.
- SS3. ALL STAINLESS STEEL MATING SURFACES AND THREADS SHALL BE COATED WITH 'LOCTITE 567' PRIOR TO ASSEMBLY.

MARKER POSTS

ROAD MARKER POSTS TO BE FLEXIBLE HDPE POST WITH FLEXIBLE JOINT. DURAPOST FLEXI 360 OR SIMILAR.

BEACHING

- BEACHING STONE SHALL BE LAID ON A COMBINED GEOTEXTILE AND ROCK FILTER. THIS COMPRISES OF BIDIM A44 GEOTEXTILE OR EQUIVALENT UNLESS OTHERWISE SPECIFIED. ANCHORED AND INSTALLED TO THE MANUFACTURERS RECOMMENDATIONS
- UNLESS NOTED OTHERWISE THE DEFAULT ROCK TYPE SHALL BE TYPE D50 = 150mm.
- ROCK GRADE SIZE SHALL CONFORM TO THE FOLLOWING GRADING:

EQUIVALENT SPHERICAL DIAMETER PERCENTAGE PASSING BY WEIGHT

1.5 - 2.0 D50	100%
D50	50%
0.3 - 0.4 D50	10 - 209

BOX CULVERTS

- BC1. BOX CULVERTS SHALL BE PRECAST CROWN UNITS TO AS1597.2
- BC2. CULVERT ROADWAY CLASS 2A EXPOSURE CLASSIFICATION B1.
- COMPACTION PRESSURE BEHIND WALLS NOT TO EXCEED 15 kPa (1.5 TONNE VIBRATORY ROLLER OR 300 kg VIBRATING PLATE WITHIN 0.5m OF WALL).
- BC4. FERRULES AND INSERTS TO BE LOCATED AS SHOWN ON THE DRAWINGS.

SYMBOLS

→ I OAD BAR DIRECTION

NOT FOR CONSTRUCTION

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DESIGNED BY N.PAYNTER DRAWN BY M.WOOTTEN DESIGN CHK REVIEWED

SCALE

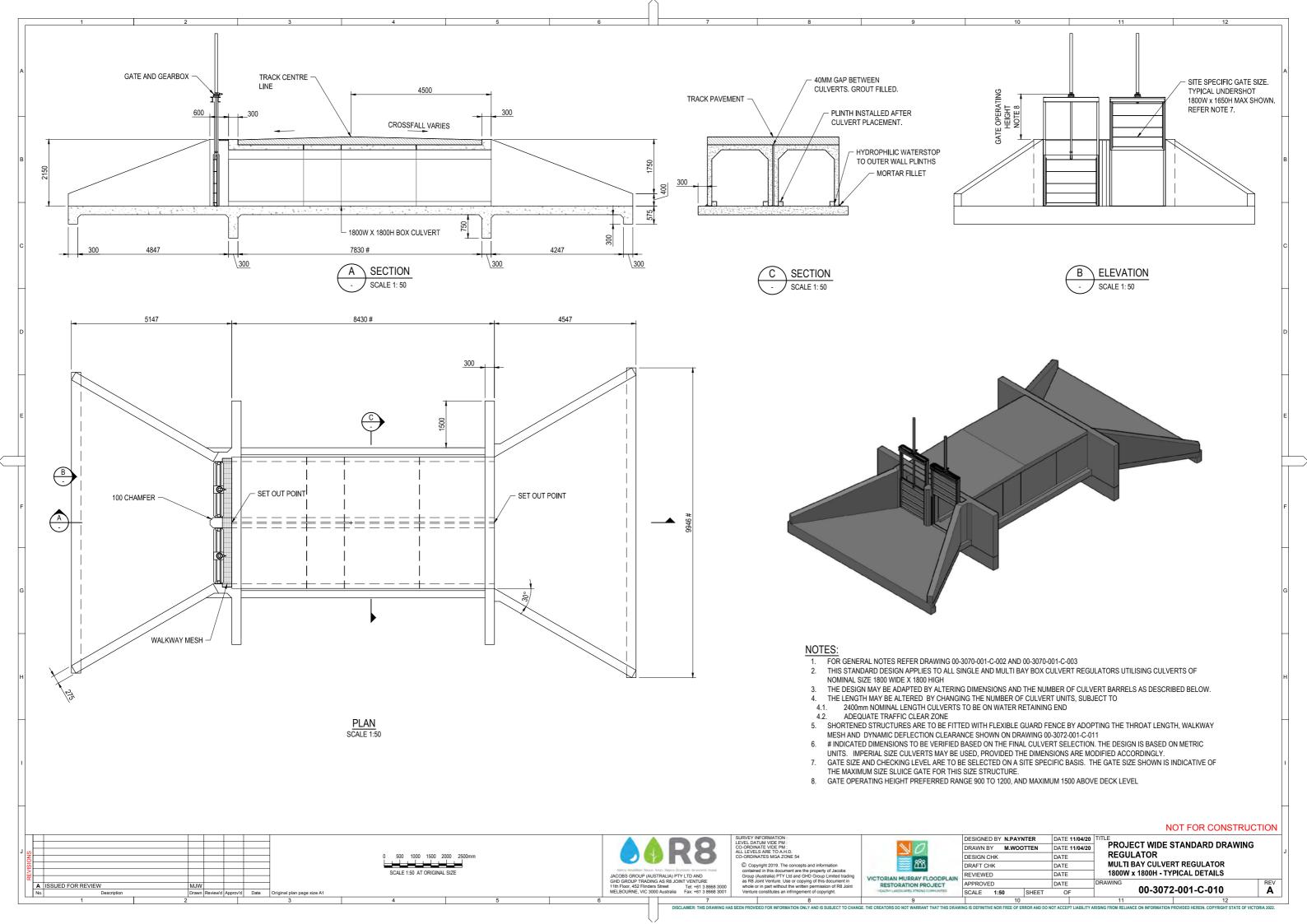
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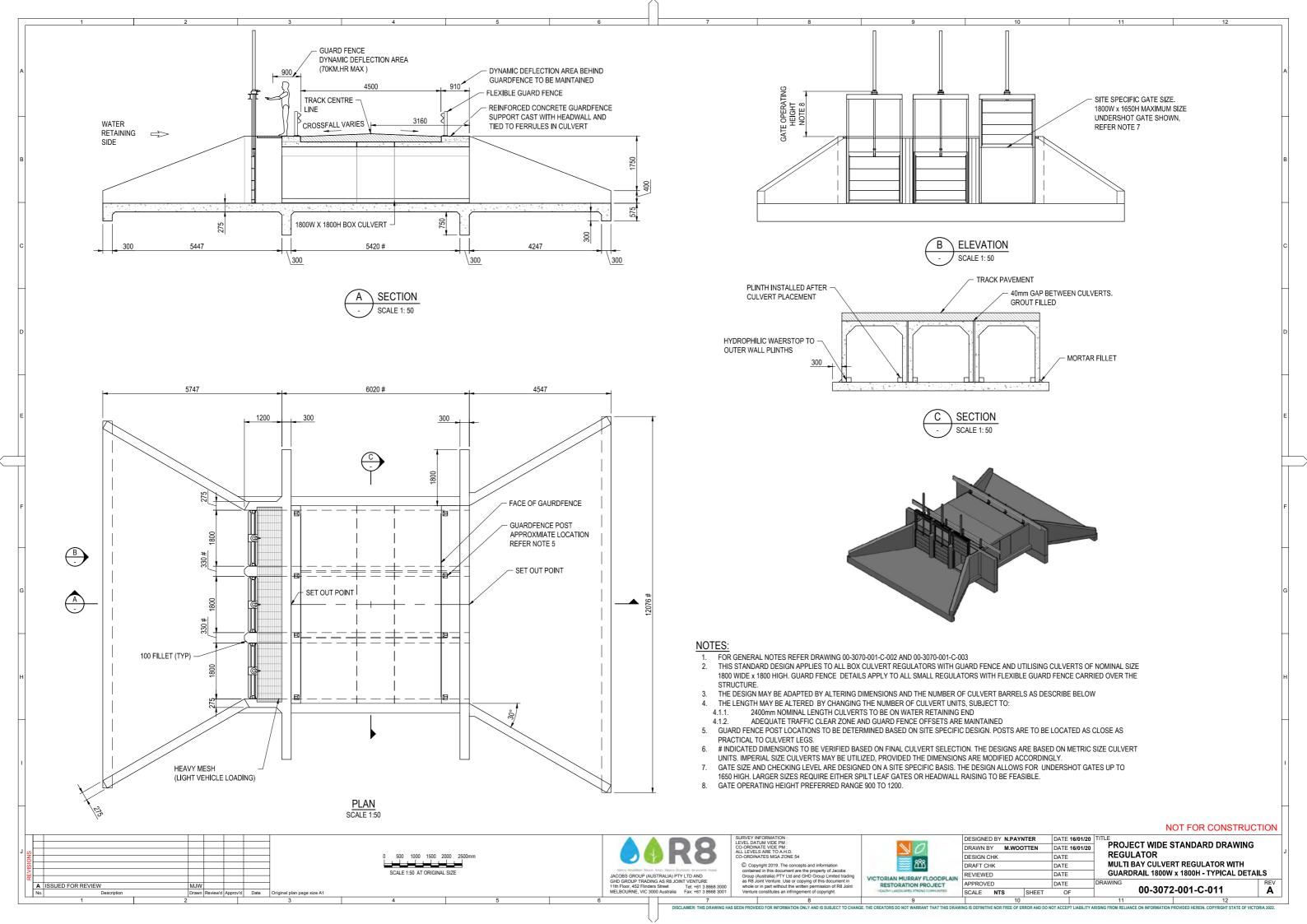
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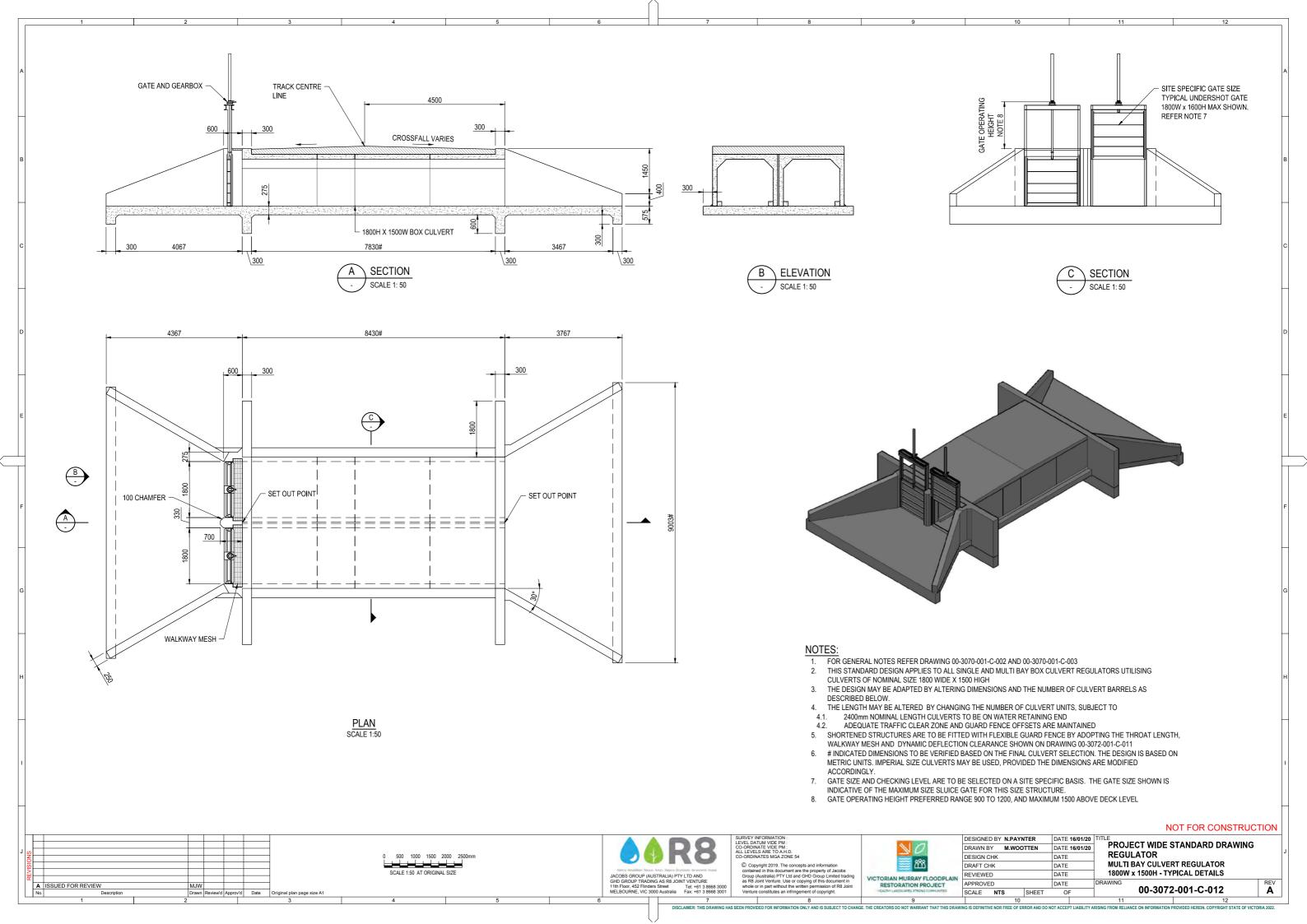
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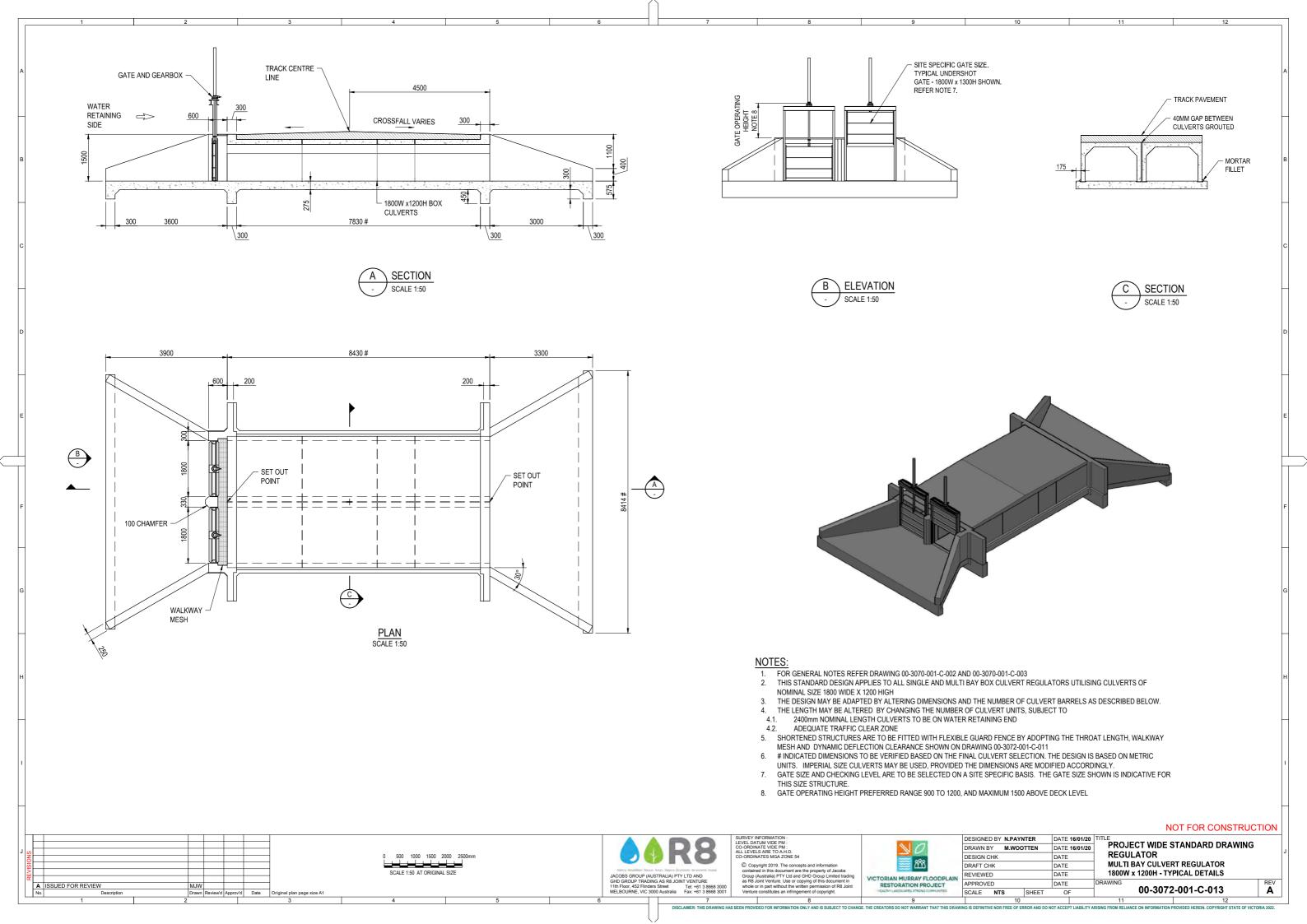
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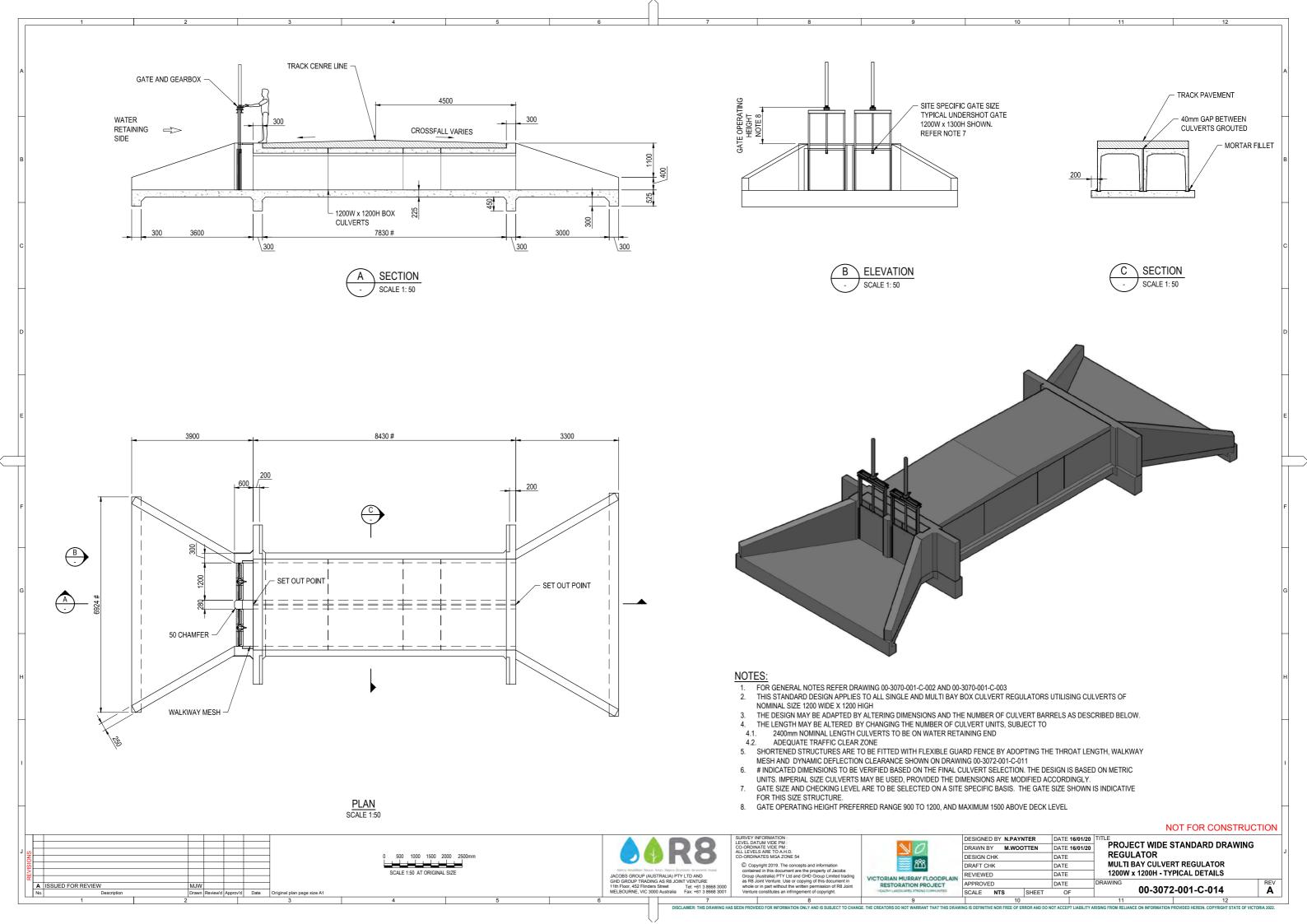
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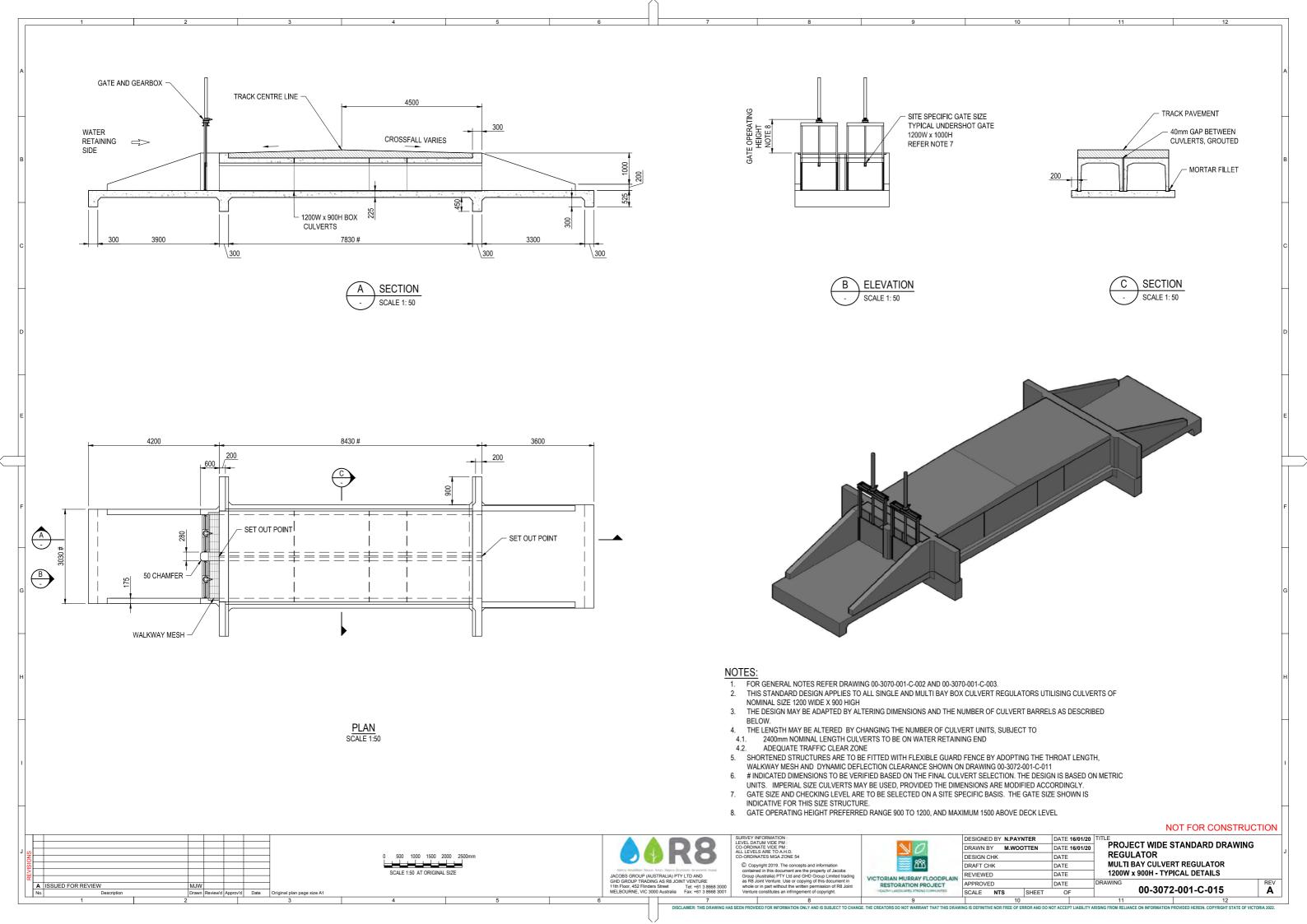


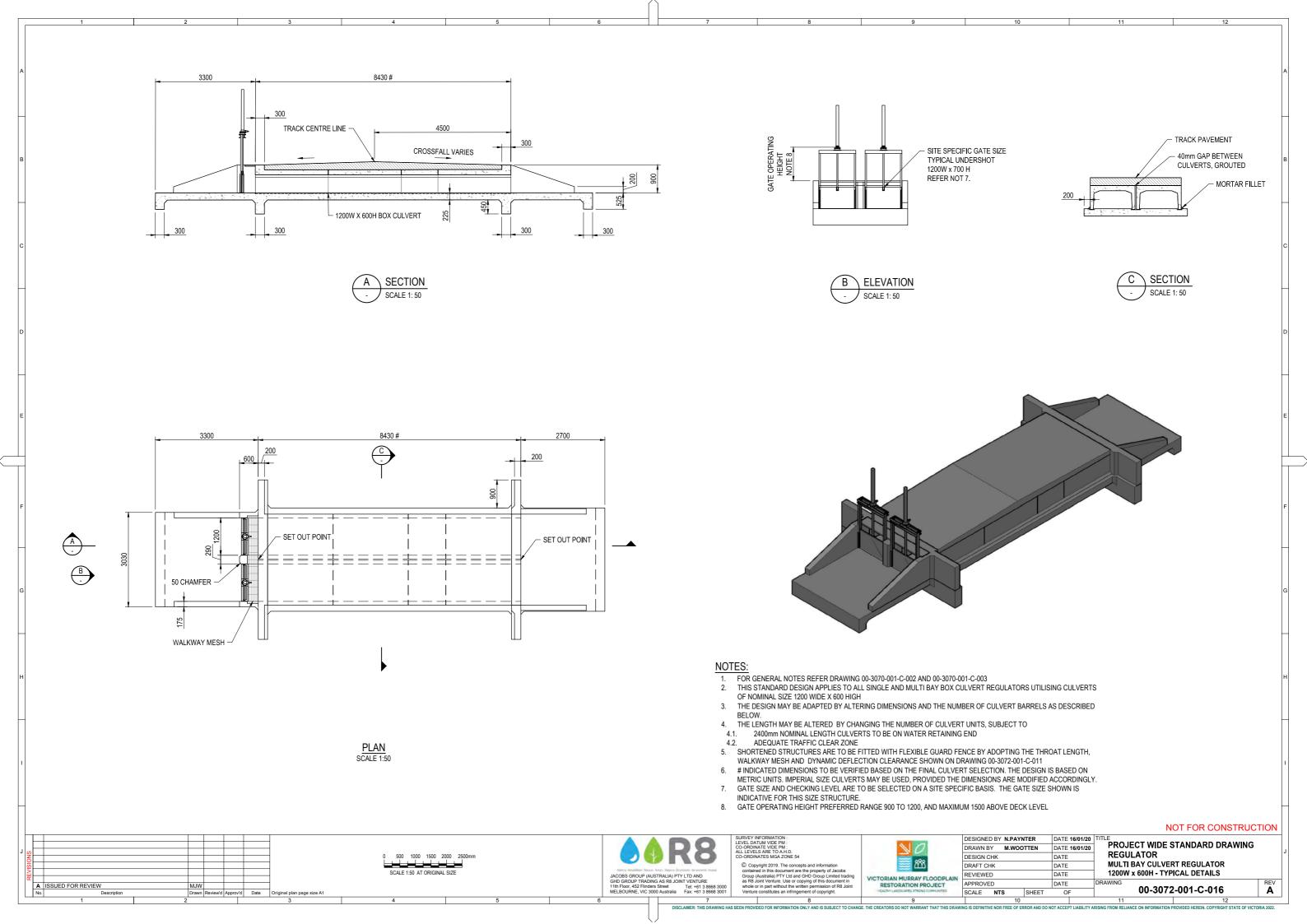


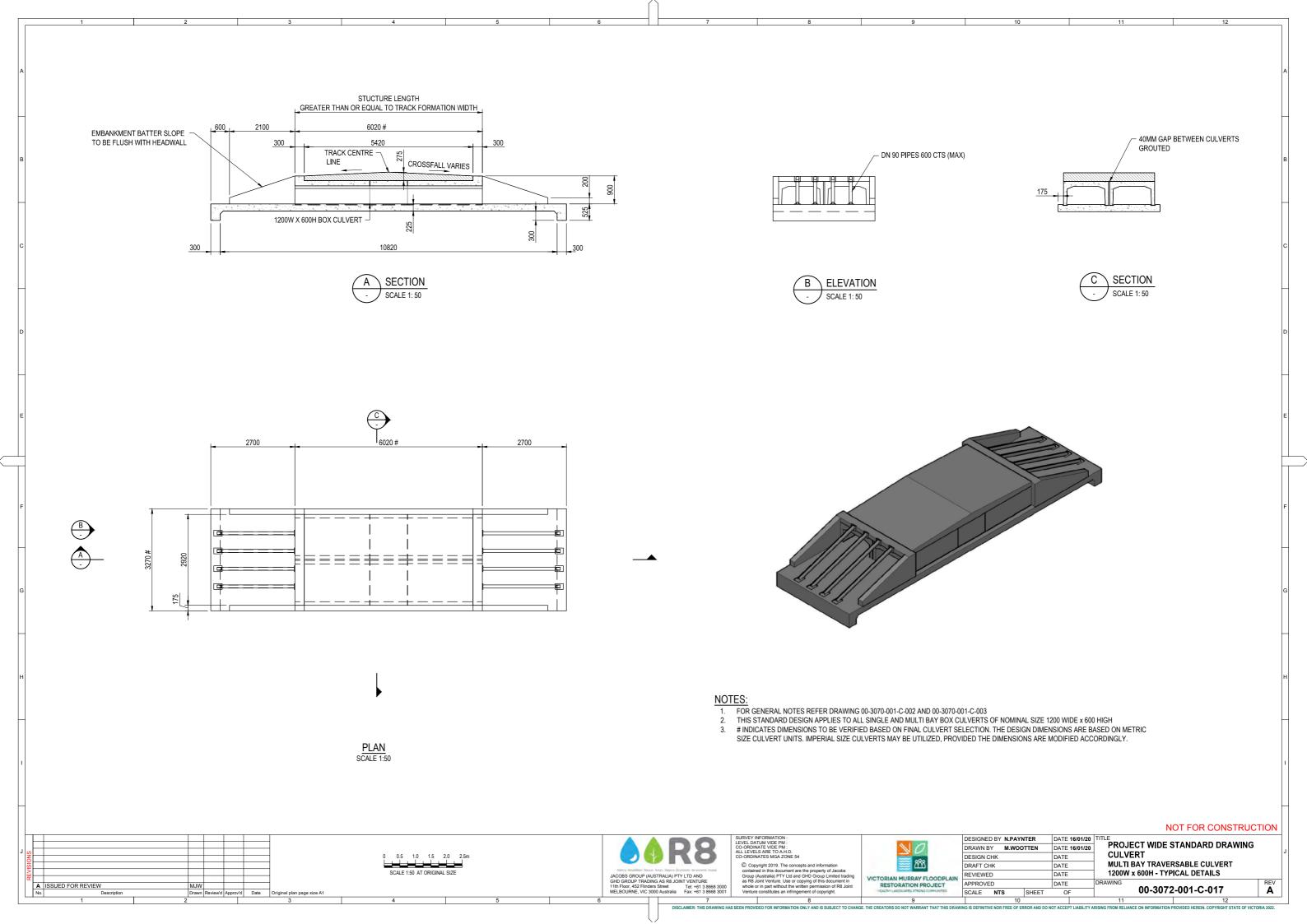


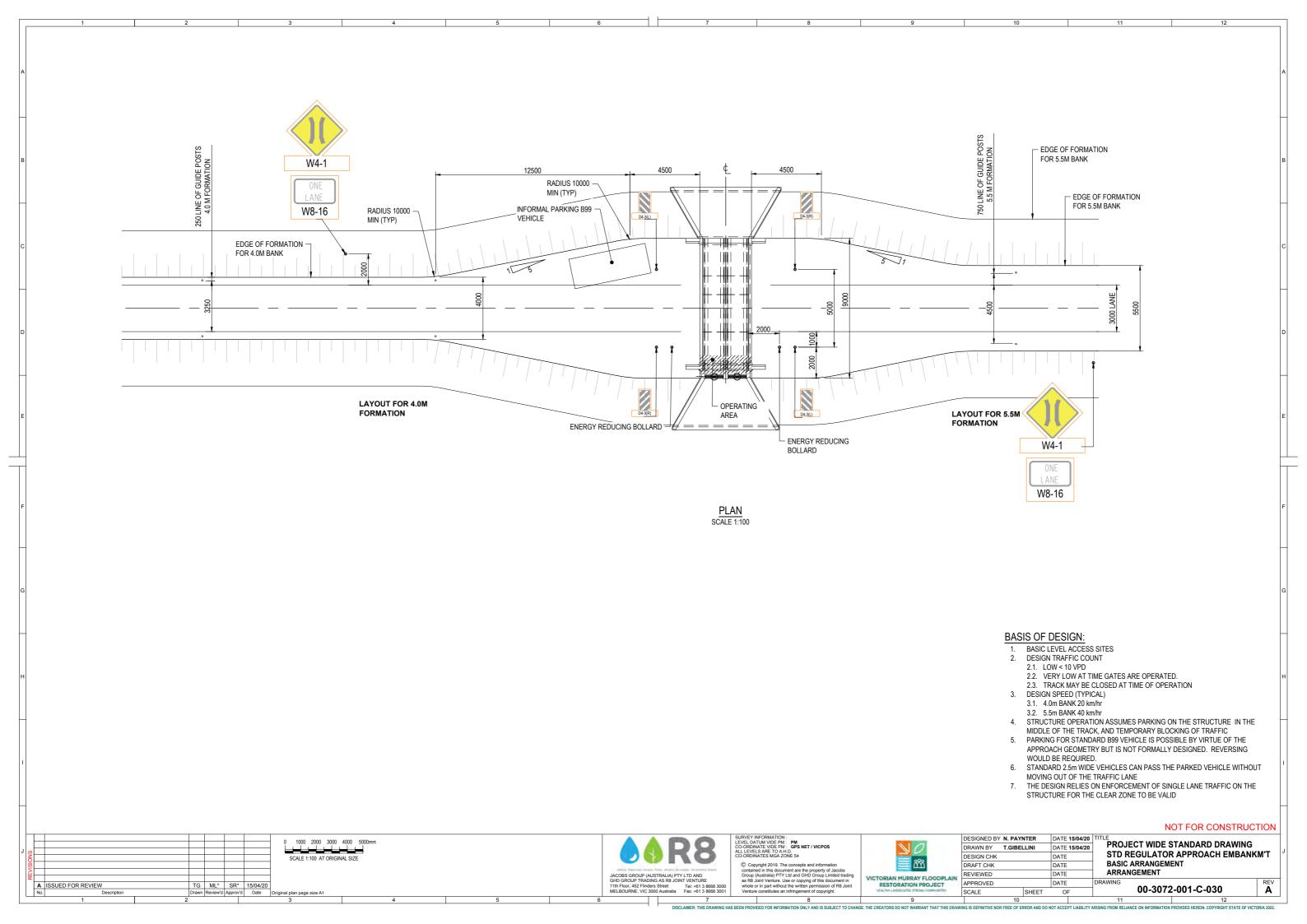


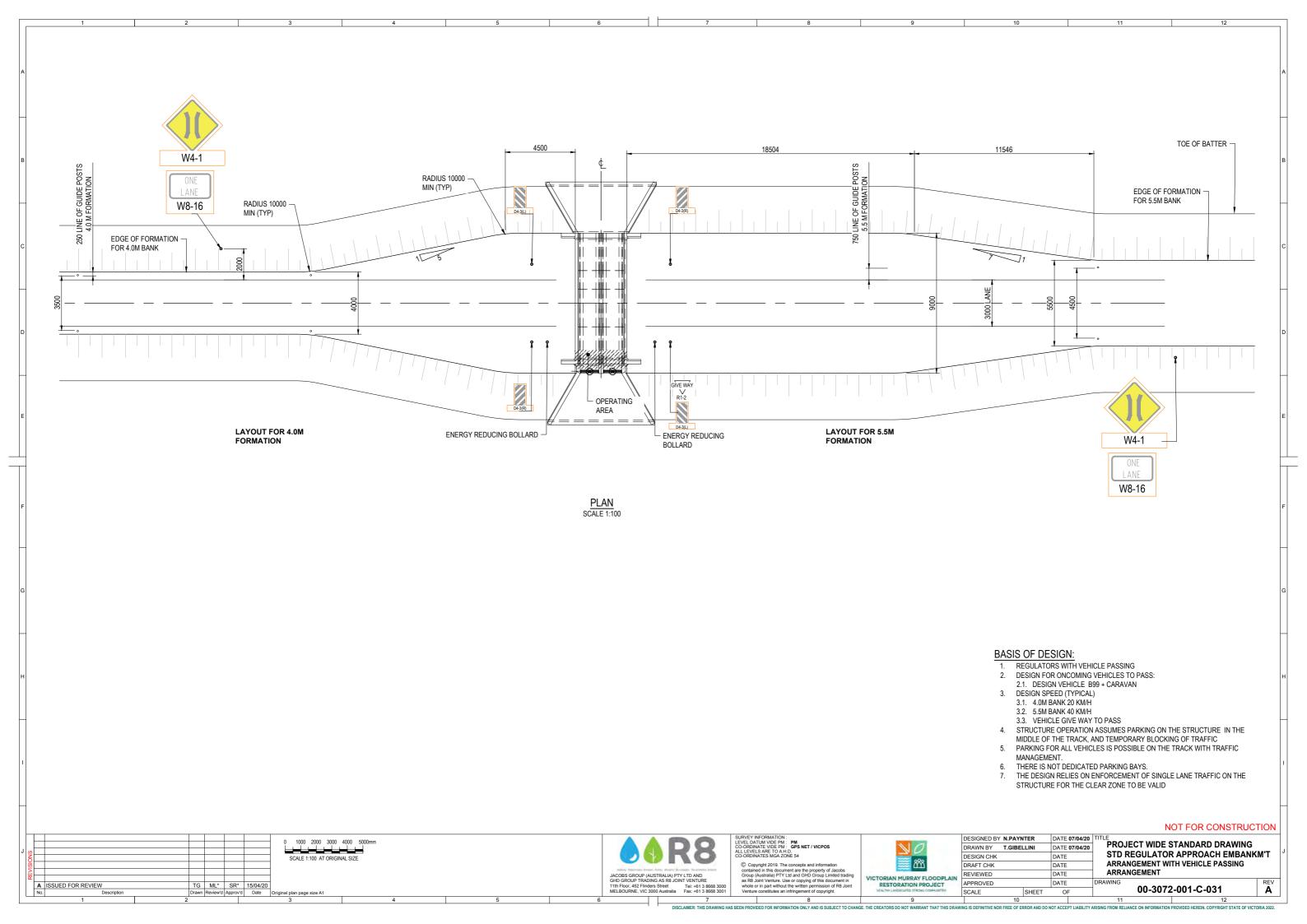


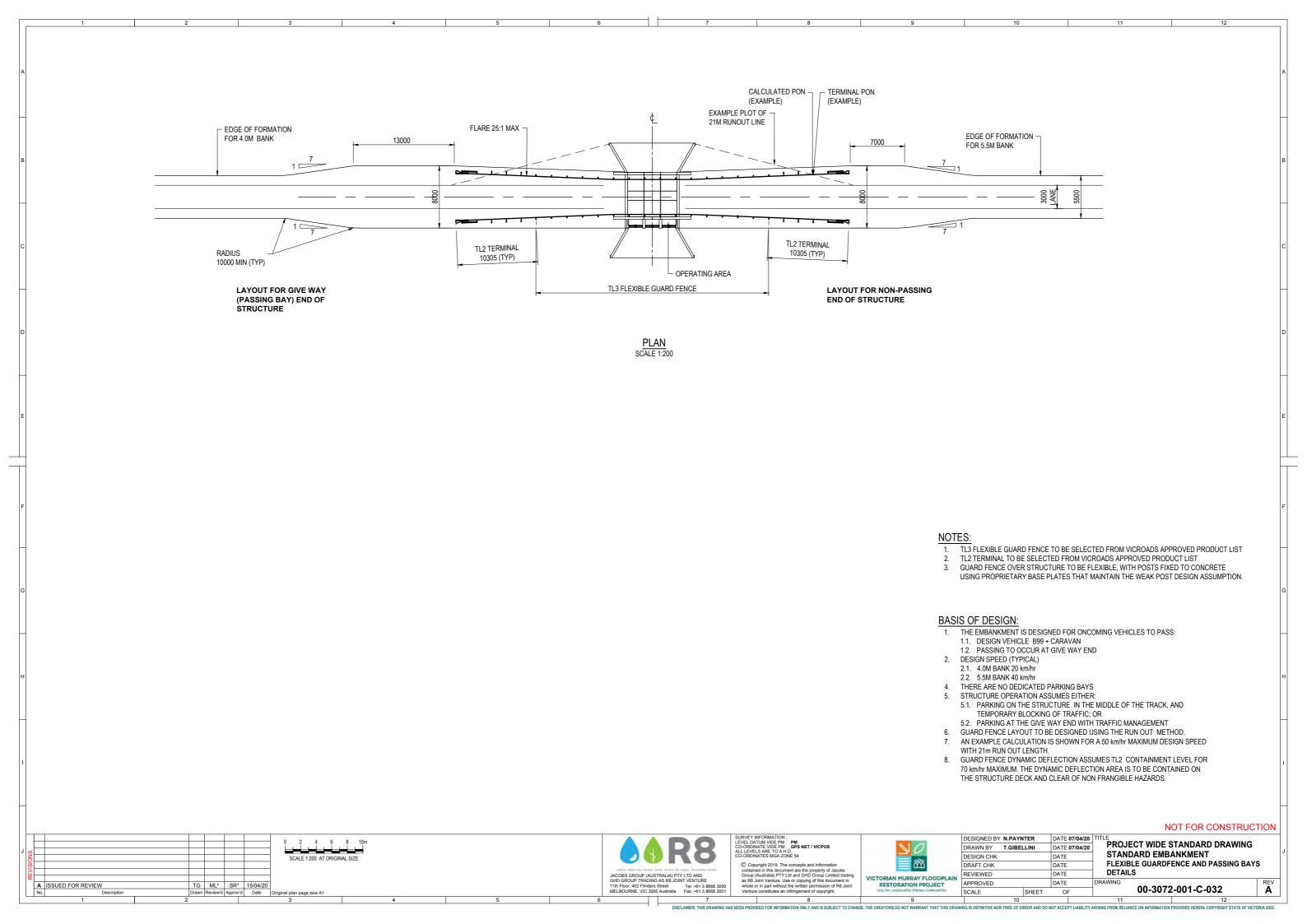


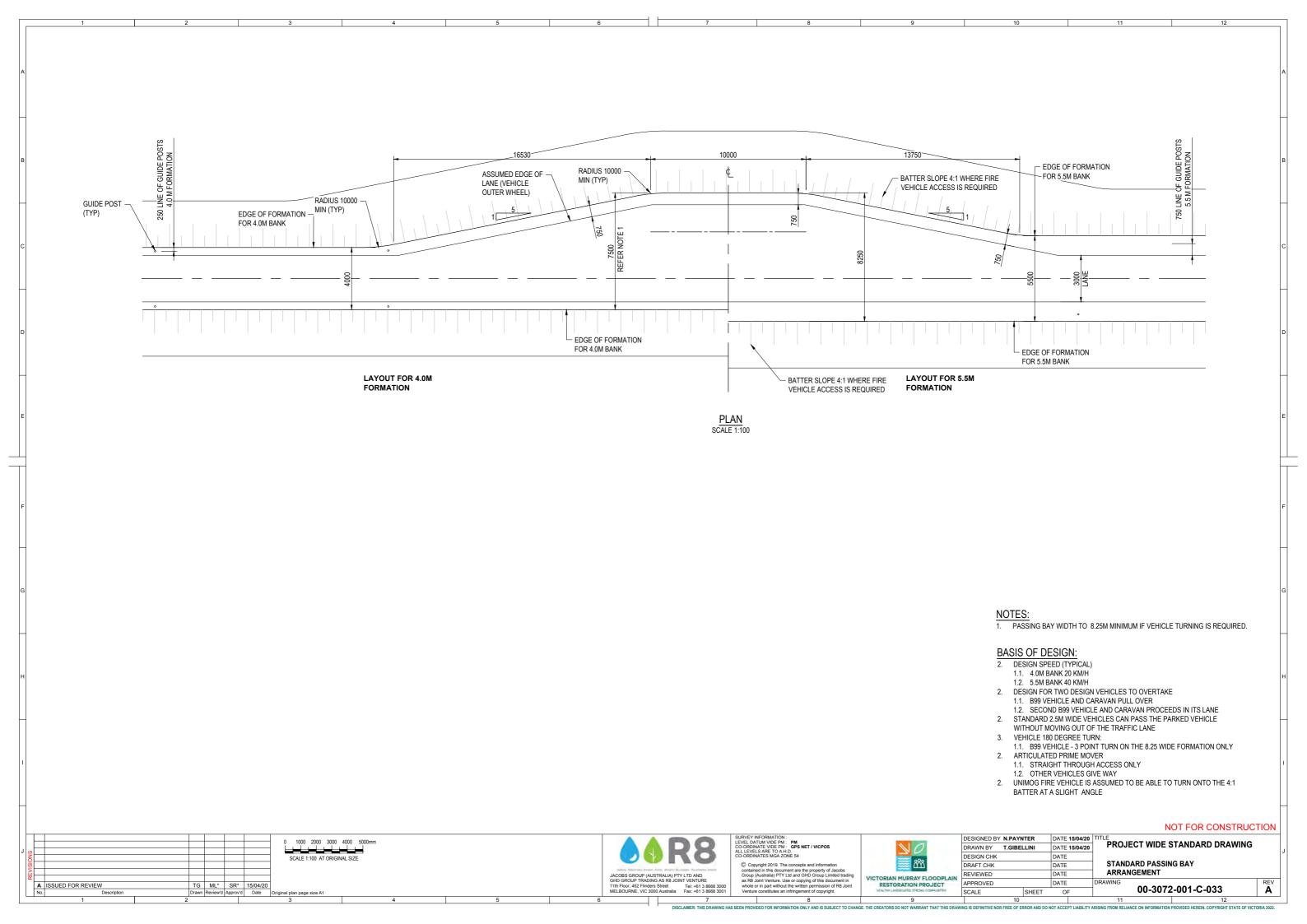


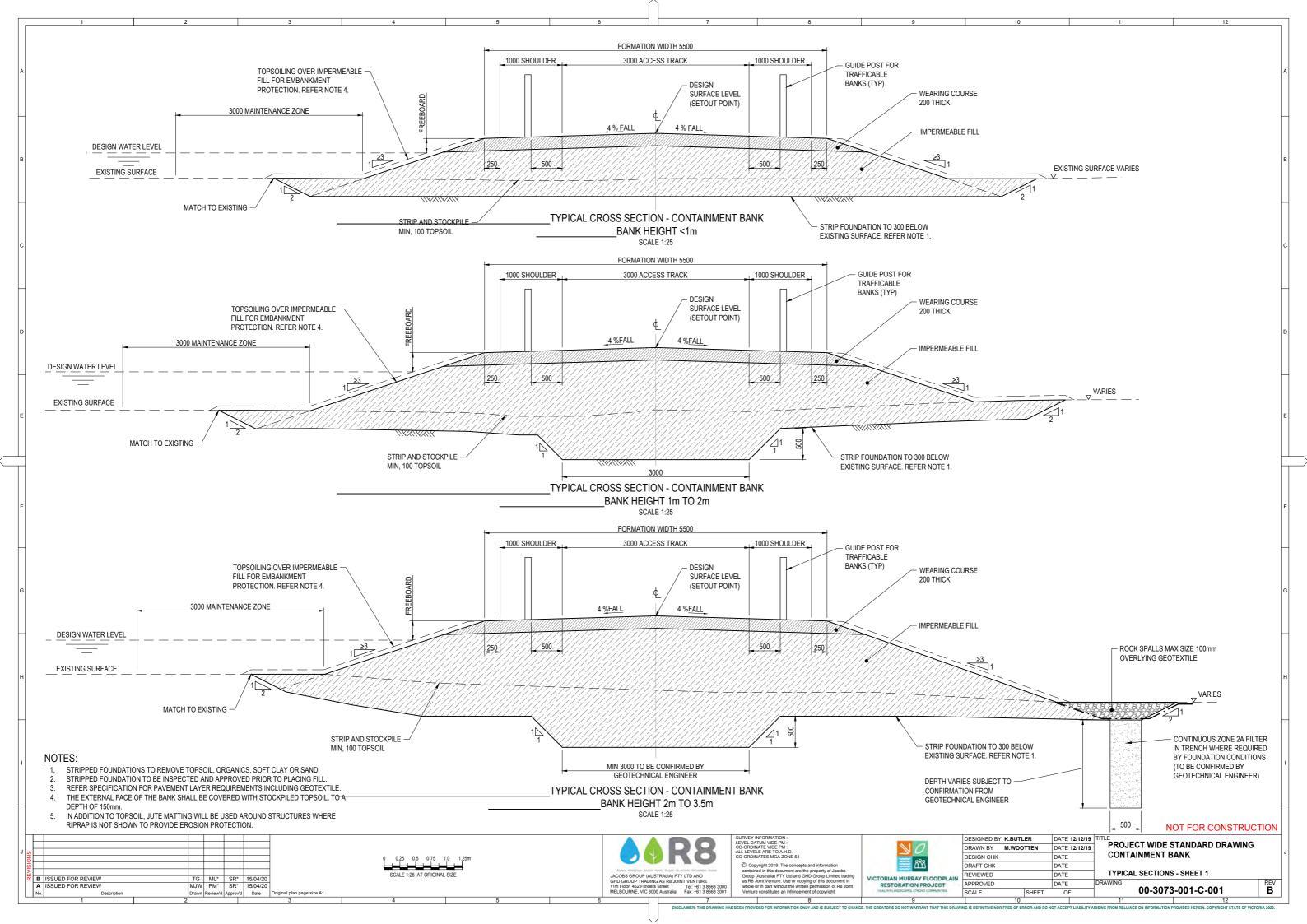


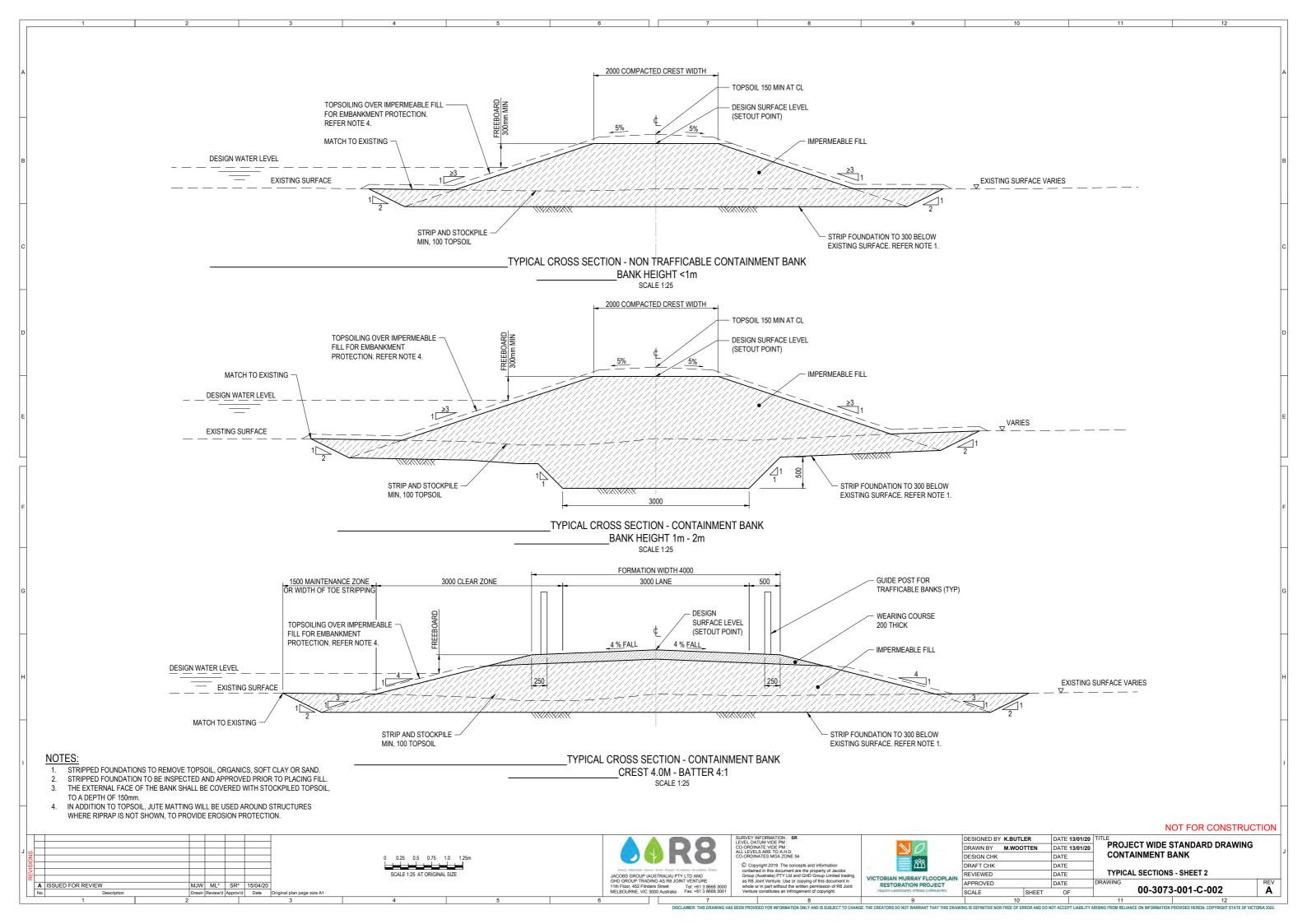


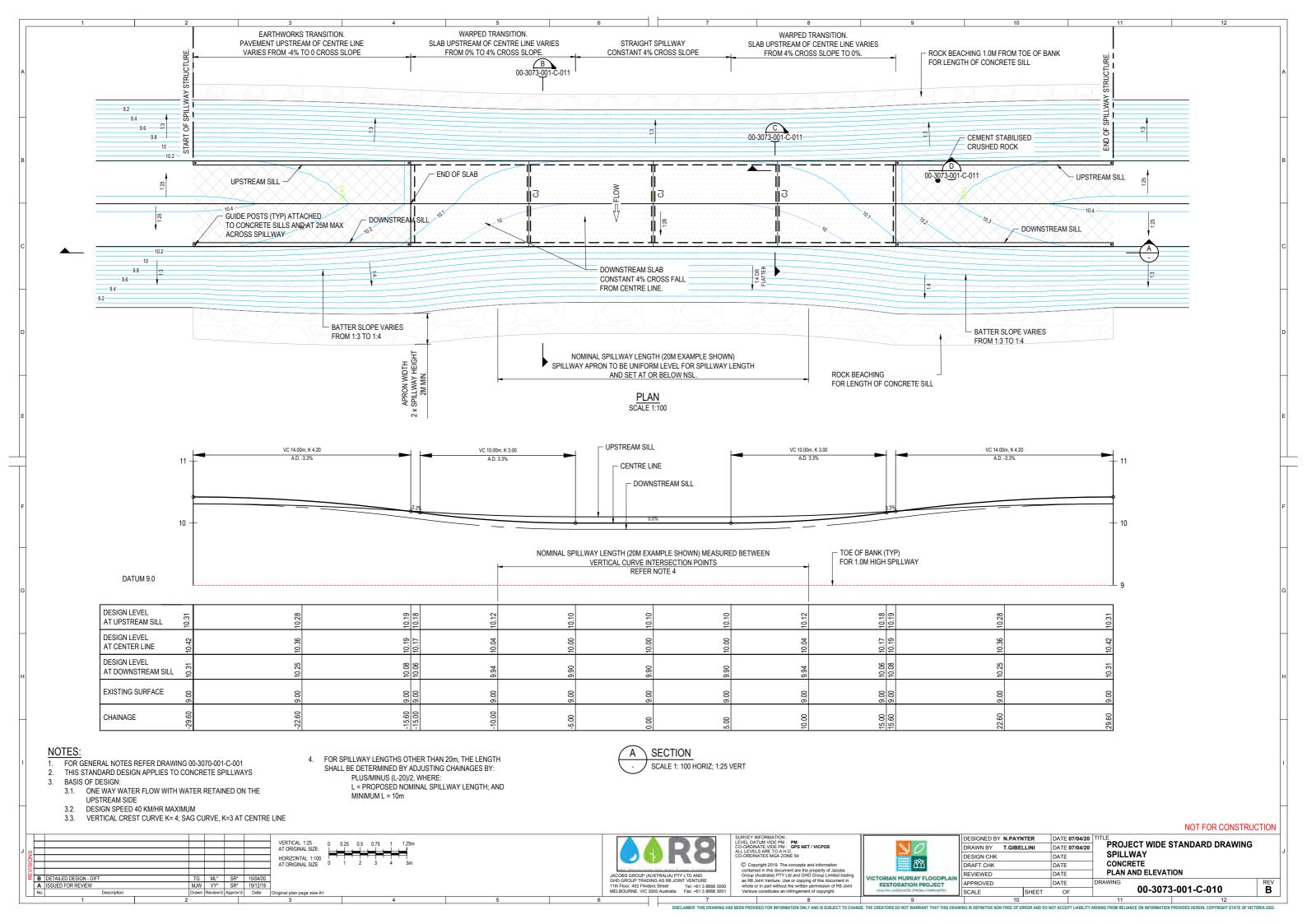


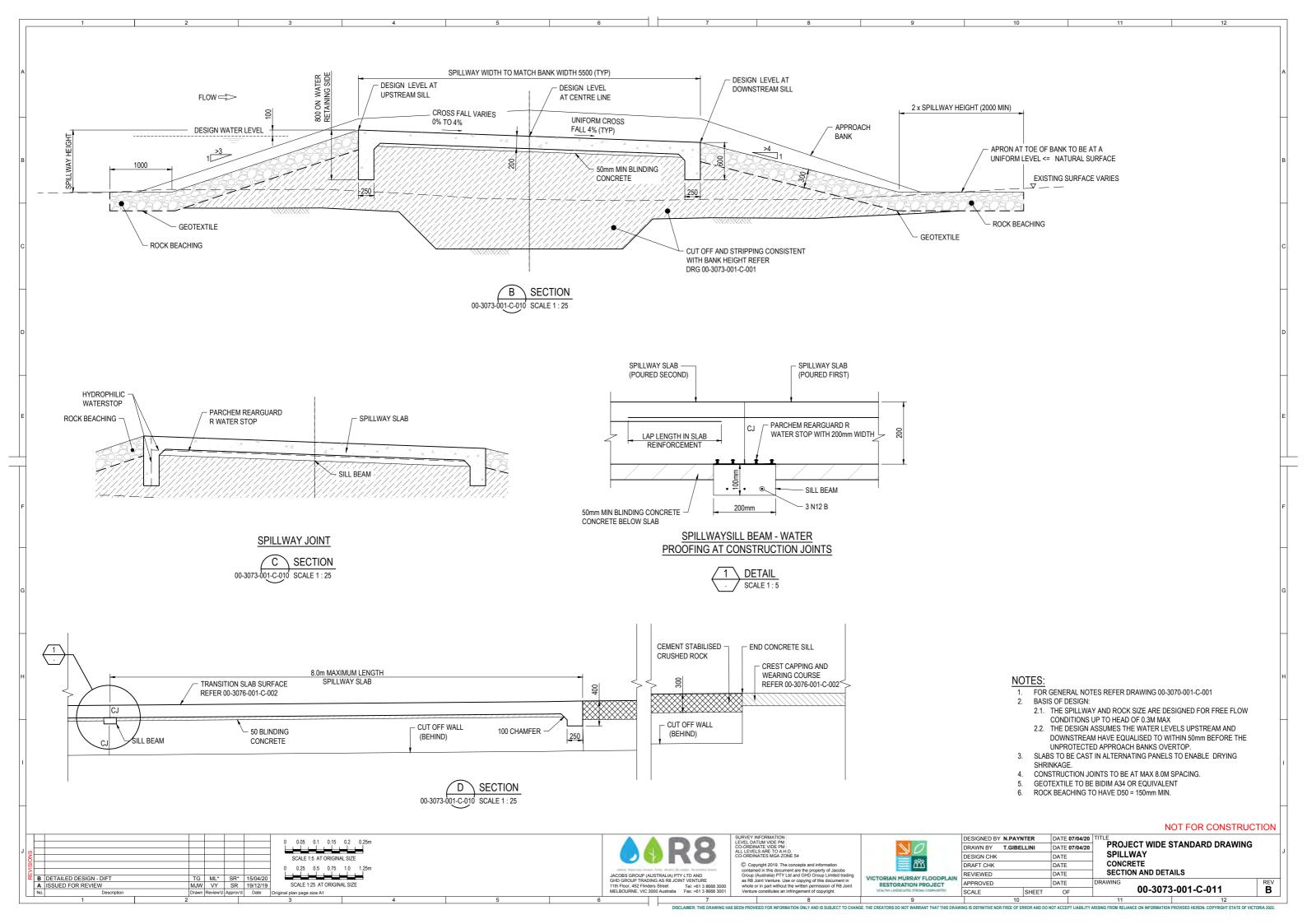


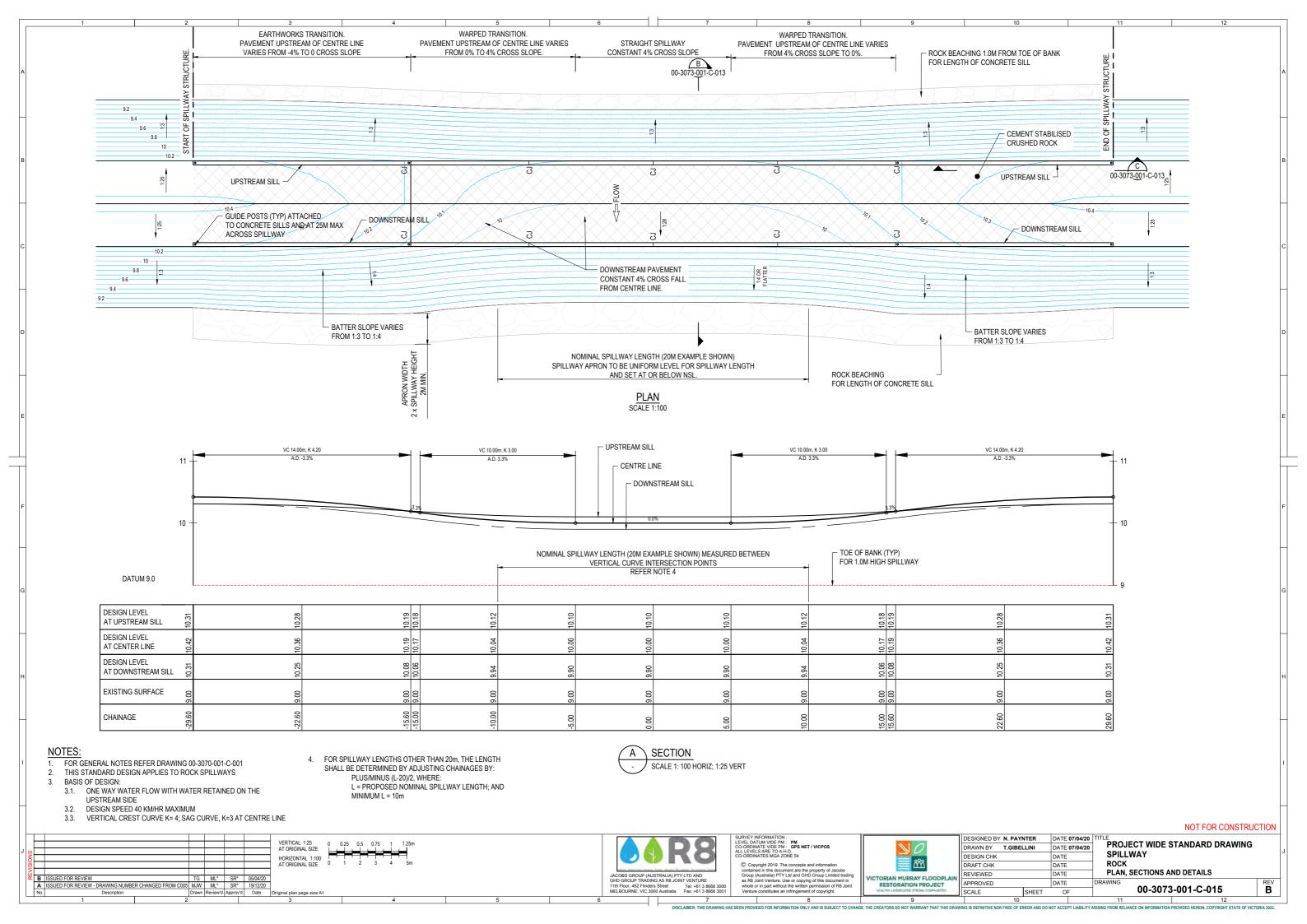


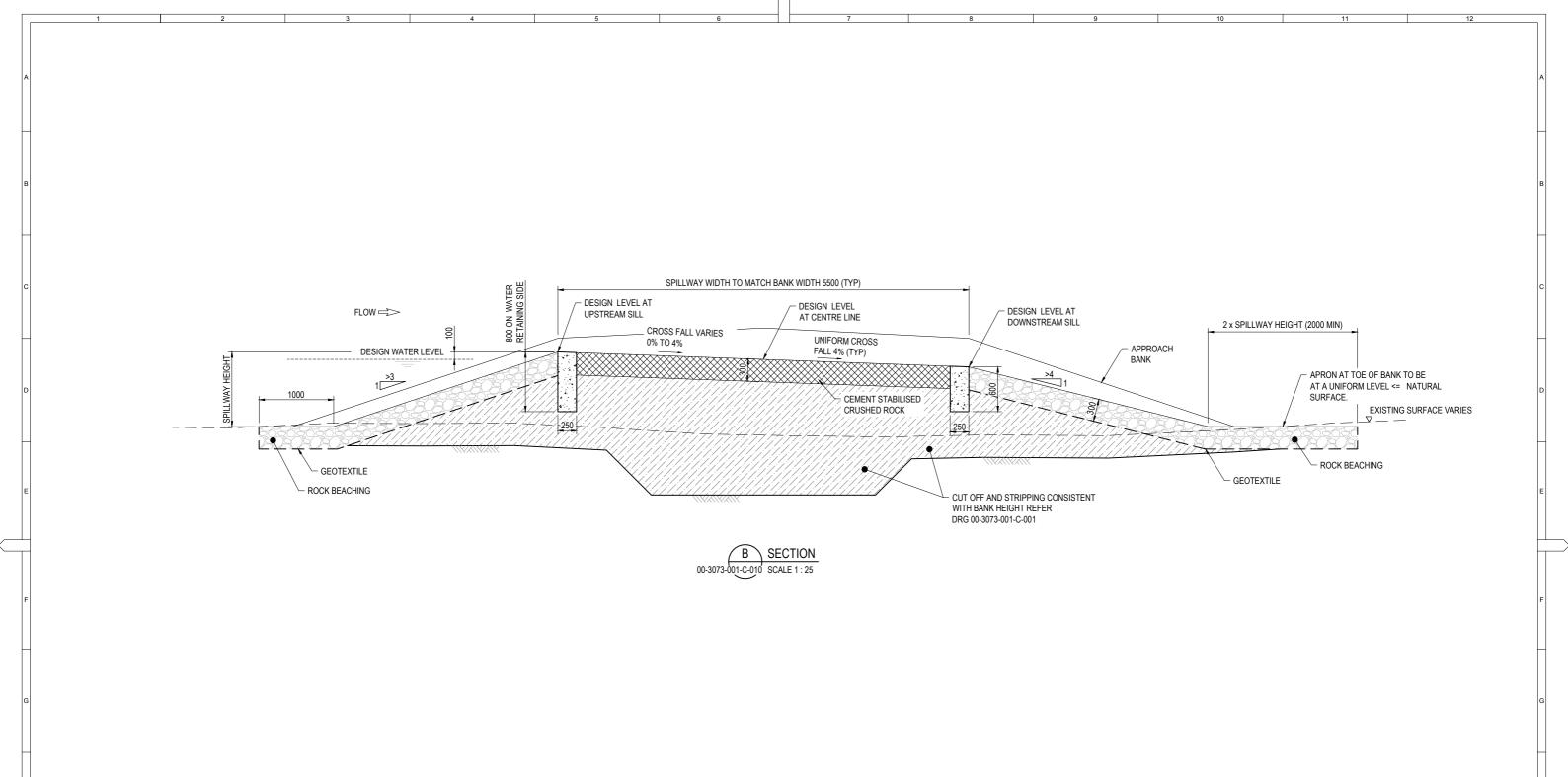












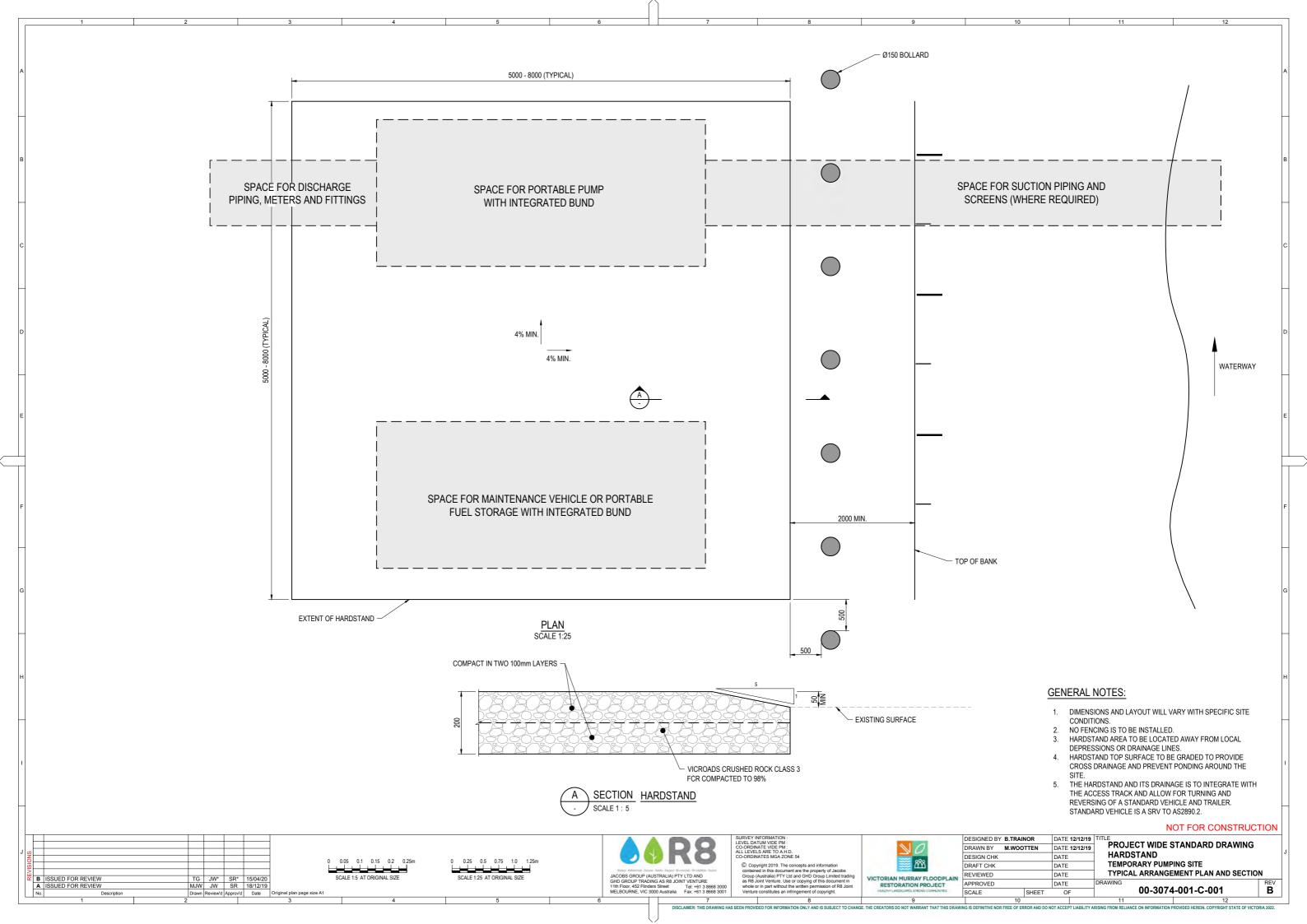
- FOR GENERAL NOTES REFER DRAWING 00-3070-001-C-001
- BASIS OF DESIGN:
- 2.1. THE SPILLWAY AND ROCK SIZE ARE DESIGNED FOR FREE FLOW CONDITIONS UP TO HEAD OF 0.3M MAX
- 2.2. THE DESIGN ASSUMES THE WATER LEVELS UPSTREAM AND DOWNSTREAM HAVE EQUALISED TO WITHIN 50mm BEFORE THE UNPROTECTED APPROACH BANKS
- CUT OFFS TO BE CAST IN ALTERNATING PANELS TO ENABLE DRYING SHRINKAGE.
 CONSTRUCTION JOINTS TO BE AT MAX 8.0M SPACING.
- GEOTEXTILE TO BE BIDUM A34 OR EQUIVALENT
- ROCK BEACHING TO HAVE D50 = 150mm MIN.

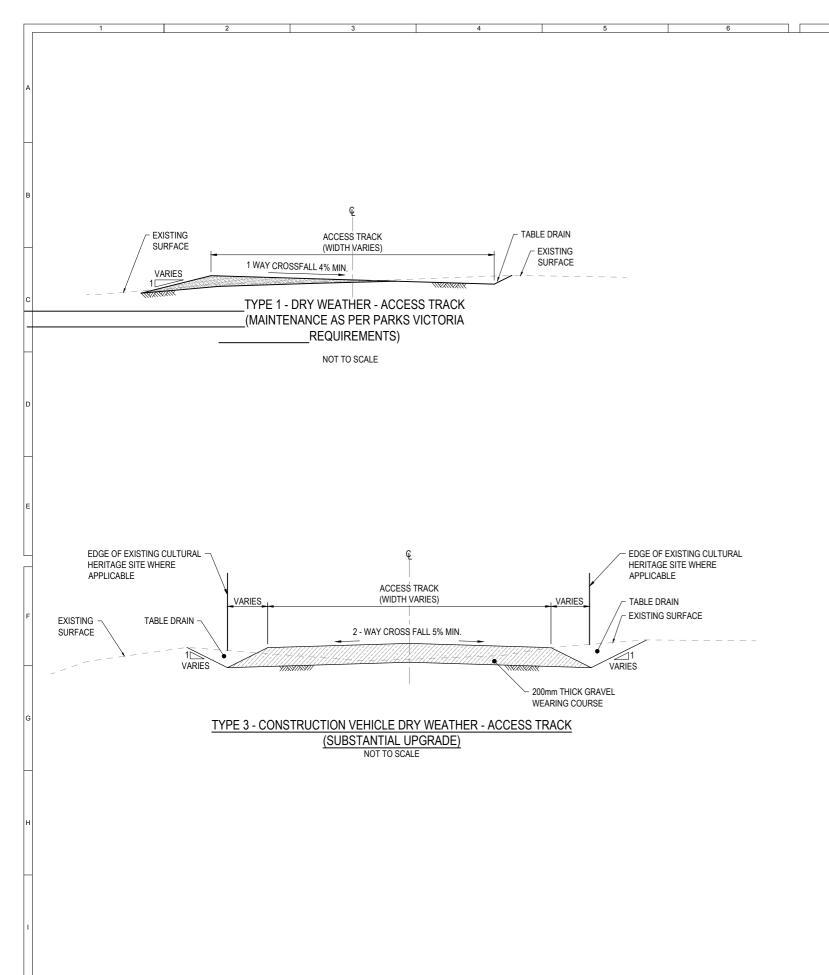
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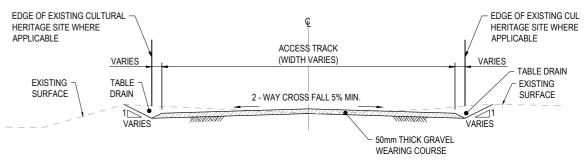
DESIGNED BY N.PAYNTER DATE 07/04/20 0.25 0.5 0.75 1.0 1.25m PROJECT WIDE STANDARD DRAWING DRAWN BY T.GIBELLINI DATE 07/04/20 SPILLWAY DESIGN CHK DATE © Copyright 2019. The concepts and information contained in this document are the property of Jacobs Group (Australia) PTY Ltd and GHD Group Limited trading at R8 Joint Venture. Use or copying of this document in whole or in part without the written permission of R8 Joint Venture constitutes an infringement of copyright. 888 ROCK SECTION AND DETAILS DATE VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT
APPROVED TG ML* SR* 15/04/20

Drawn Review'd Approv'd Date Original plan page size A A ISSUED FOR REVIEW 00-3073-001-C-016 SCALE SHEET

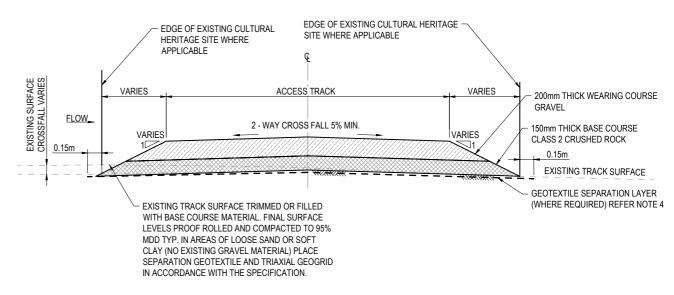




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TYPE 2 - DRY WEATHER - ACCESS TRACK (MODERATE UPGRADE)



TYPE 4 - HEAVY CONSTRUCTION VEHICLE - ALL WEATHER ACCESS TRACK NOT TO SCALE

- 1. REFER TO DRAWING 00-3076-001-C-002 TRACK CLASSES FOR TRACK DIMENSIONS.
- 2. WEARING COURSE GRAVEL TO COMPLY WITH AGPT06-09 UNSEALED PAVEMENTS.
- 3. SINGLE CROSS FALL AT 4% FOR TYPE 1 TRACKS.
- 4. PAVEMENT MATERIALS TO BE VICROADS CLASS 2 AND 3 OR EQUIVALENT FROM LOCALLY SOURCED MATERIALS.

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888 VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT

DESIGN CHK REVIEWED APPROVED

DATE 16/12/19 DESIGNED BY K.McINTOSH PROJECT WIDE STANDARD DRAWING DATE 16/12/19 DRAWN BY V.JENKINS **ACCESS TRACKS - TRACK TYPES**

DATE DATE 00-3076-001-C-001 SCALE NTS



VICTORIAN MURRAY FLOODPLAIN RESTORATION PROJECT

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