

# SSD 9522 MOD 2

## 657-708 MAMRE ROAD

## KEMPS CREEK, NSW

DRAWING LIST:

DRAWING NO.	DRAWING TITLE
C013362.00-DA01	DRAWING LIST & GENERAL NOTES
C013362.00-DA02	CIVIL WORKS PLAN
C013362.00-DA03	ROAD LONG SECTIONS AND TYPICAL CROSS SECTIONS-SHEET 1
C013362.00-DA04	ROAD LONG SECTIONS AND TYPICAL CROSS SECTIONS-SHEET 2
C013362.00-DA05	ROADWORKS DETAILS
C013362.00-DA06	PAVEMENT PLAN
C013362.00-DA07	INTERSECTION 1 PLAN
C013362.00-DA08	INTERSECTION 2 PLAN
C013362.00-DA09	TURNING PATHS PLAN
C013362.00-DA10	FUNCTIONAL LAYOUT PLAN-LOT 5

GENERAL NOTES:

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- G2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT STANDARDS AUSTRALIA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
- G3. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. ENGINEER'S DRAWINGS ISSUED IN ANY ELECTRONIC FORMAT MUST NOT BE USED FOR DIMENSIONAL SETOUT. REFER TO THE ARCHITECT'S DRAWINGS FOR ALL DIMENSIONAL SETOUT INFORMATION.
- G4. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- G5. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- G6. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH ACCEPTABLE SAFETY STANDARDS & APPROPRIATE SAFETY SIGNS SHALL BE INSTALLED AT ALL TIMES DURING THE PROGRESS OF THE JOB.

EROSION CONTROL NOTES

REFER TO EARLY WORKS DRAWINGS BY COSTIN ROE CONSULTING FOR ESTATE EROSION AND SEDIMENT CONTROL MEASURES.

STORMWATER DRAINAGE NOTES:

1. ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500.3:2003 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
2. THE MINOR (PIPED) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 20 YEAR ARI STORM EVENT AND THE MAJOR (OVERLAND) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI STORM EVENT.
3. ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON CIVIL WORKS PLANS.
4. PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
5. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
6. ALL STORMWATER PIPES  $\phi$ 375 OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
7. ALL PIPES UP TO AND INCLUDING  $\phi$ 300 TO BE uPVC GRADE SN8 UNO.
8. PIPE CLASS NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
9. ALL CONCRETE PITS GREATER THAN 1000mm DEEP SHALL BE REINFORCED USING N12-200 EACH WAY CENTERED IN WALL AND BASE. LAP MINIMUM 300mm WHERE REQUIRED. ALL CONCRETE FOR PITS SHALL BE F'c 32 MPA. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
10. IN ADDITION TO ITEM 6 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
11. PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAM AND PACK FILLING AROUND AND UNDER BACK OF PIPES AND PIPE FAUCETS, WITH NARROW EDGED RAMMERS OR OTHER SUITABLE TAMPING DETAILS.
12. CONCRETE PIPES UNDER, OR WITHIN THE ZONE OF INFLUENCE OF PAVED AREAS SHALL BE LAID USING HS2 TYPE SUPPORT, AS A MINIMUM, IN ACCORDANCE WITH AS 3725. AGGREGATE BACKFILL SHALL NOT BE USED FOR PIPE BEDDING AND OR HAUNCH/SIDE SUPPORT.
13. WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED  $\phi$ 100 uPVC TO EACH SIDE OF PIPE.
14. ALL SUBSOIL DRAINAGE LINES SHALL BE  $\phi$ 100 SLOTTED uPVC WITH APPROVED FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOIL LINES TO MATCH FALLS OF LAND AND/OR IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAVEMENT / LANDSCAPED INTERFACES, TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEER) AND AS SHOWN ON PLAN.
15. ALL PIPE GRADES 1 IN 100 MINIMUM UNO.
16. PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
17. MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
18. PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS D 'HEAVY DUTY', THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' U.N.O.
19. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
20. DOWN PIPES (DP) TO BE AS PER HYDRAULIC ENGINEERS DETAILS WITH CONNECTOR TO MATCH DP SIZE U.N.O. ON PLAN. PROVIDE CLEANING EYE AT GROUND LEVEL.
21. PIPE LENGTHS NOMINATED ON PLAN OR LONGSECTIONS ARE MEASURED FROM CENTER OF PITS TO THE NEAREST 0.5m AND DO NOT REPRESENT ACTUAL LENGTH. THE CONTRACTOR IS TO ALLOW FOR THIS.

ELECTRONIC INFORMATION NOTES:

1. THE ISSUED DRAWINGS IN HARD COPY OR PDF FORMAT TAKE PRECEDENCE OVER ANY ELECTRONICALLY ISSUED INFORMATION, LAYOUTS OR DESIGN MODELS.
2. THE CONTRACTOR'S DIRECT AMENDMENT OR MANIPULATION OF THE DATA OR INFORMATION THAT MIGHT BE CONTAINED WITHIN AN ENGINEER-SUPPLIED DIGITAL TERRAIN MODEL AND ITS SUBSEQUENT USE TO UNDERTAKE THE WORKS WILL BE SOLELY AT THE DISCRETION OF AND THE RISK OF THE CONTRACTOR.
3. THE CONTRACTOR IS REQUIRED TO HIGHLIGHT ANY DISCREPANCIES BETWEEN THE DIGITAL TERRAIN MODEL AND INFORMATION PROVIDED IN THE CONTRACT AND/OR DRAWINGS AND IS REQUIRED TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
4. THE ENGINEER WILL NOT BE LIABLE OR RESPONSIBLE FOR THE POSSIBLE ON-GOING NEED TO UPDATE THE DIGITAL TERRAIN MODEL, SHOULD THERE BE ANY AMENDMENTS OR CHANGES TO THE DRAWINGS OR CONTRACT INITIATED BY THE CONTRACTOR.

SURVEY NOTE:

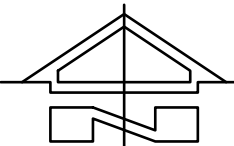
COORDINATES AND DESIGN DRAWINGS ARE BASED ON GROUND SURVEY COORDINATE SYSTEM MGA2020 (ZONE 56). TO CONVERT TO GRID (ALLOWING FOR THE GEODESIC CURVATURE OF THE EARTH) PLEASE NOTE THE ORIGIN PM33568 (E:294645.403 N:6253924.312) AND SCALE FACTOR 1.000109. REFER TO BOXALL SURVEY 10129-005-TOPO REV B FOR DETAILS.

CROSS REFERENCE NOTES :

PLANS TO BE READ IN CONJUNCTION WITH CEMP & ASSOCIATED SUB PLANS INCLUDING THE CONSTRUCTION SOIL AND WATER MANAGEMENT PLAN (CSWMP), CONTAMINATION MANAGEMENT PLAN & CONSTRUCTION ACCESS MANAGEMENT PLAN.

FINISHED LEVELS PLAN NOTES:

1. LEVELS DATUM IS A.H.D.
2. ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON PLAN.
3. THE MAJOR CONTOUR INTERVAL IS 0.5m
4. THE MINOR CONTOUR INTERVAL IS 0.1m.
5. MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%).
6. MAXIMUM PAVEMENT GRADE IS TO BE 1:20 (5%) IN CARPARKING AREAS AND 1:25 (4%) ELSEWHERE.
7. MAXIMUM RAMP GRADES ARE TO BE 1:12 (8.3%) U.N.O. ON PLAN.
8. PROVIDE MINIMUM 3.0m LONG TRANSITION WHERE CHANGES GRADE EXCEED 1:20 (5%).
9. PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:3H.
10. ALL BATTER SLOPE WITH GRADES AT OR EXCEEDING 1V:6H ARE TO BE TURFED IMMEDIATELY OR APPROPRIATE EROSION CONTROL IS TO BE PROVIDED TO THE SATISFACTION OF THE ENGINEER.
11. ALL ACCESS ROADS TO HAVE A CROSSFALL OF 3% AS INDICATED ON PLAN.
12. ALL FOOTPATHS ARE TO FALL AWAY FROM THE BOUNDARY AT 2.5% NOMINAL GRADE.
13. ALL PAVEMENTS ARE TO BE SET AT 50mm BELOW THE FINISHED FLOOR LEVEL OF THE WAREHOUSE AND OFFICE AREAS.



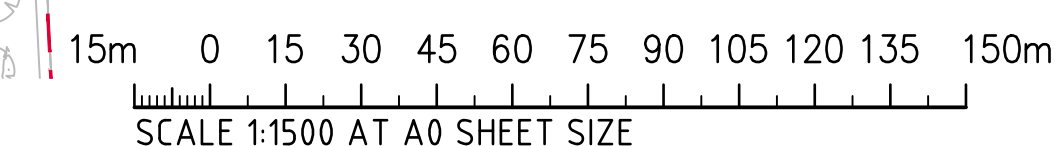
LOCALITY PLAN  
NOT TO SCALE

FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION			01/09/21			C								
ISSUED FOR DEVELOPMENT APPLICATION			05/07/21			B								
ISSUED FOR DEVELOPMENT APPLICATION			25/06/21			A								
AMENDMENTS			DATE	ISSUE	AMENDMENTS			DATE	ISSUE	AMENDMENTS			DATE	ISSUE

				PROJECT MAMRE SOUTH PRECINCT 657 - 708 MAMRE ROAD KEMPS CREEK, 2178, NSW				Costin Roe Consulting Pty Ltd. Consulting Engineers Level 1, 8 Widdowall Street Wahah Bay, Sydney NSW 2000 Tel: (02) 9251-7699 Fax: (02) 9241-3721 email: mail@costinroe.com.au ©		PRECISION   COMMUNICATION   ACCOUNTABILITY		DRAWING TITLE DRAWING LIST AND GENERAL NOTES		DRAWING No. C013362.00-DA01		ISSUE C	
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FOR DEVELOPMENT APPLICATION

**ALTIS**  
PROPERTY PARTNERS



DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
MW	MC	APRIL '18	MW	A0	AS SHOWN	C013362 00-DA0

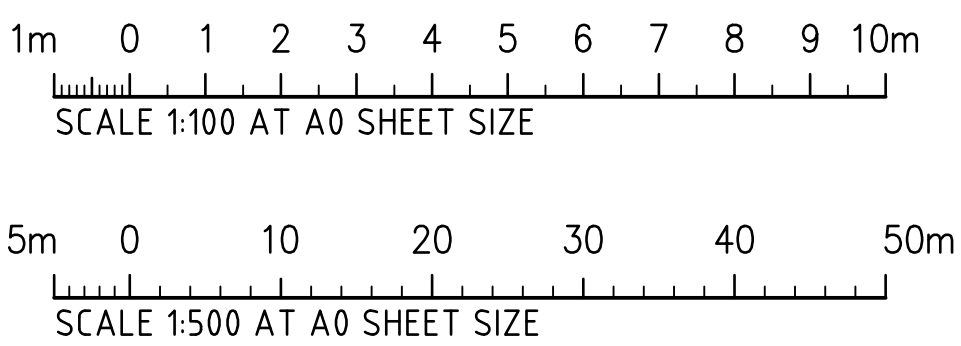
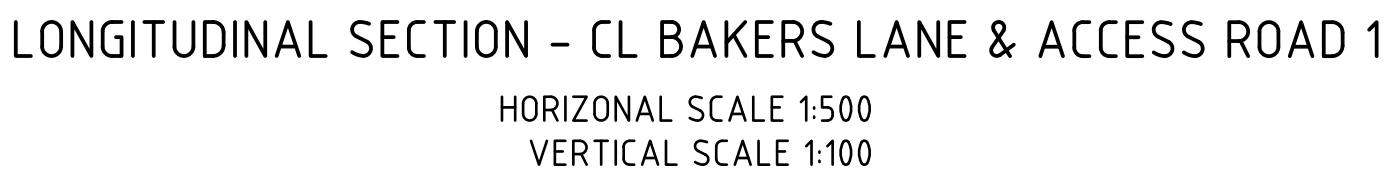
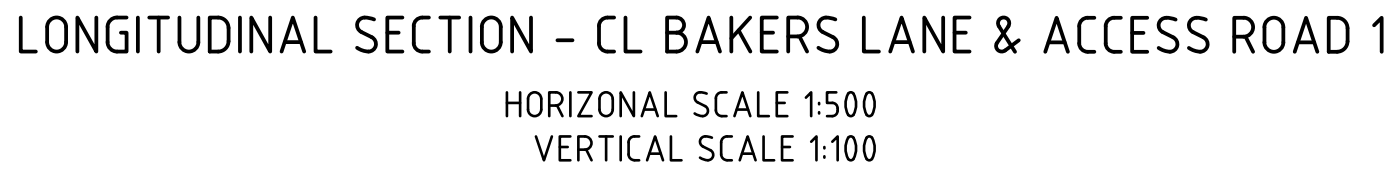


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DRAWING No C013362.00 DA02





ISSUED FOR DEVELOPMENT APPLICATION			01/09/21			A		
AMENDMENTS			DATE			ISSUE		
AMENDMENTS			DATE			ISSUE		
AMENDMENTS			DATE			ISSUE		

PROJECT

MAMRE SOUTH PRECINCT

657 - 708 MAMRE ROAD

KEMPS CREEK, 2178, NSW

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Consulting Engineers  
Level 1, 9 Windmill Street  
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Tel: (06) 9253-7699 Fax: (02) 9241-3721  
email: mail@costinroe.com.au ©

DRAWING TITLE

Road Long Sections

SHEET 1

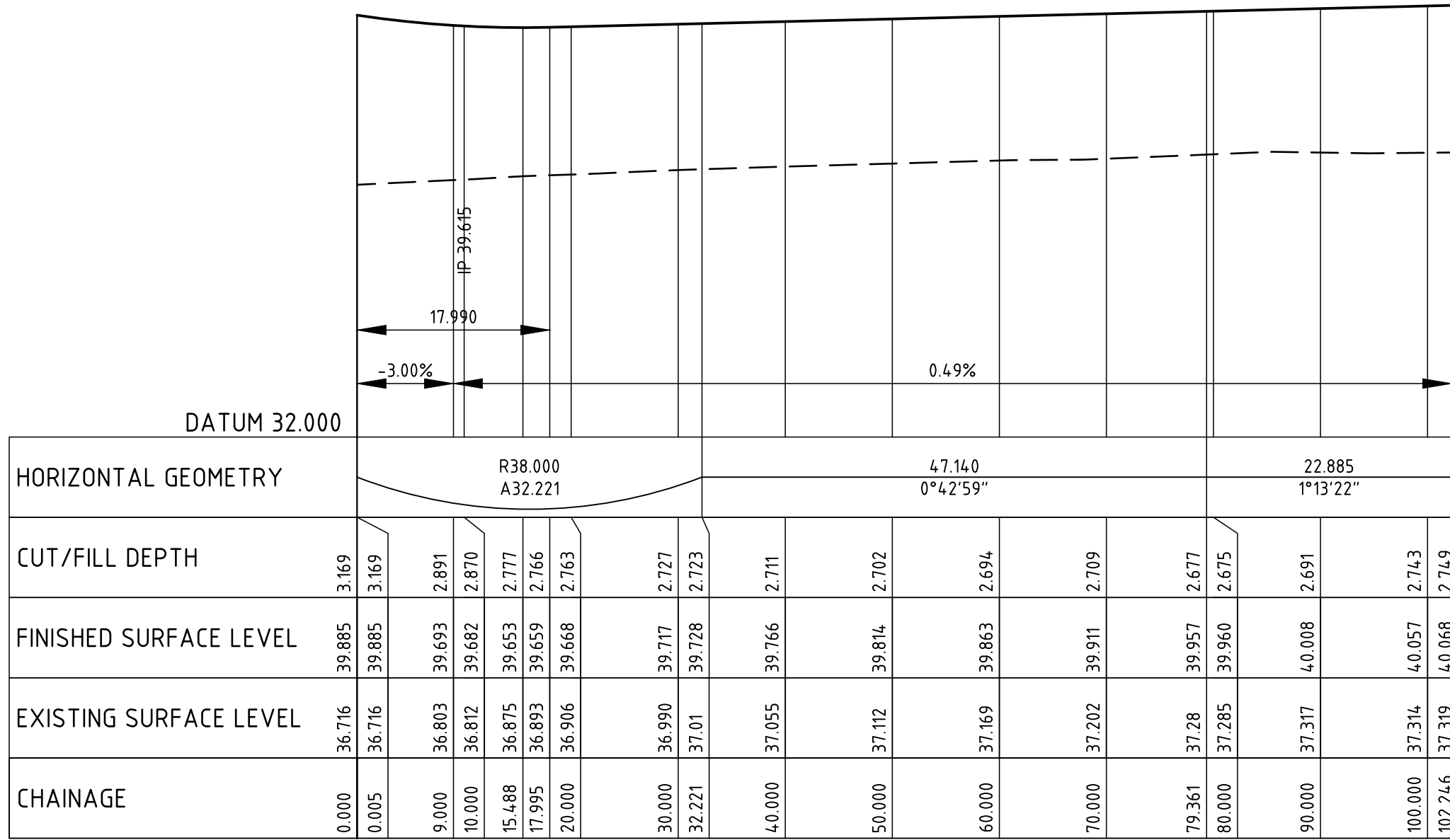
PRECISION

COMMUNICATION

ACCOUNTABILITY

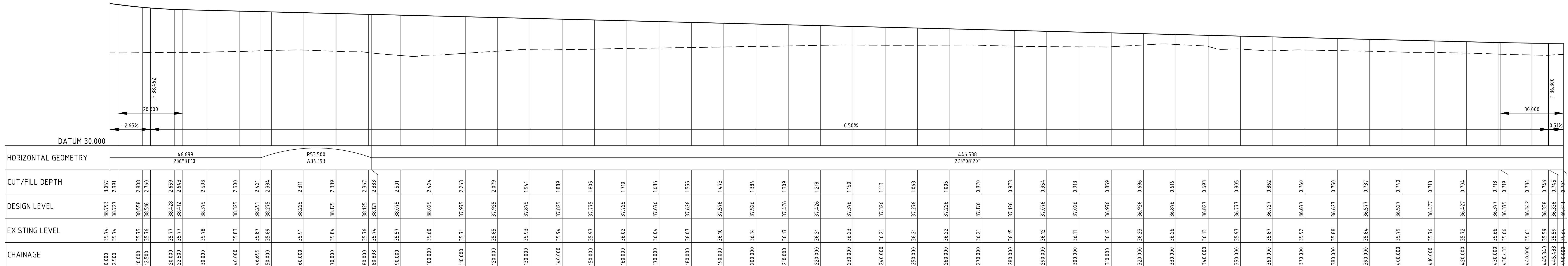
DRAWING NO	C013362.00- DA03	ISSUE	A
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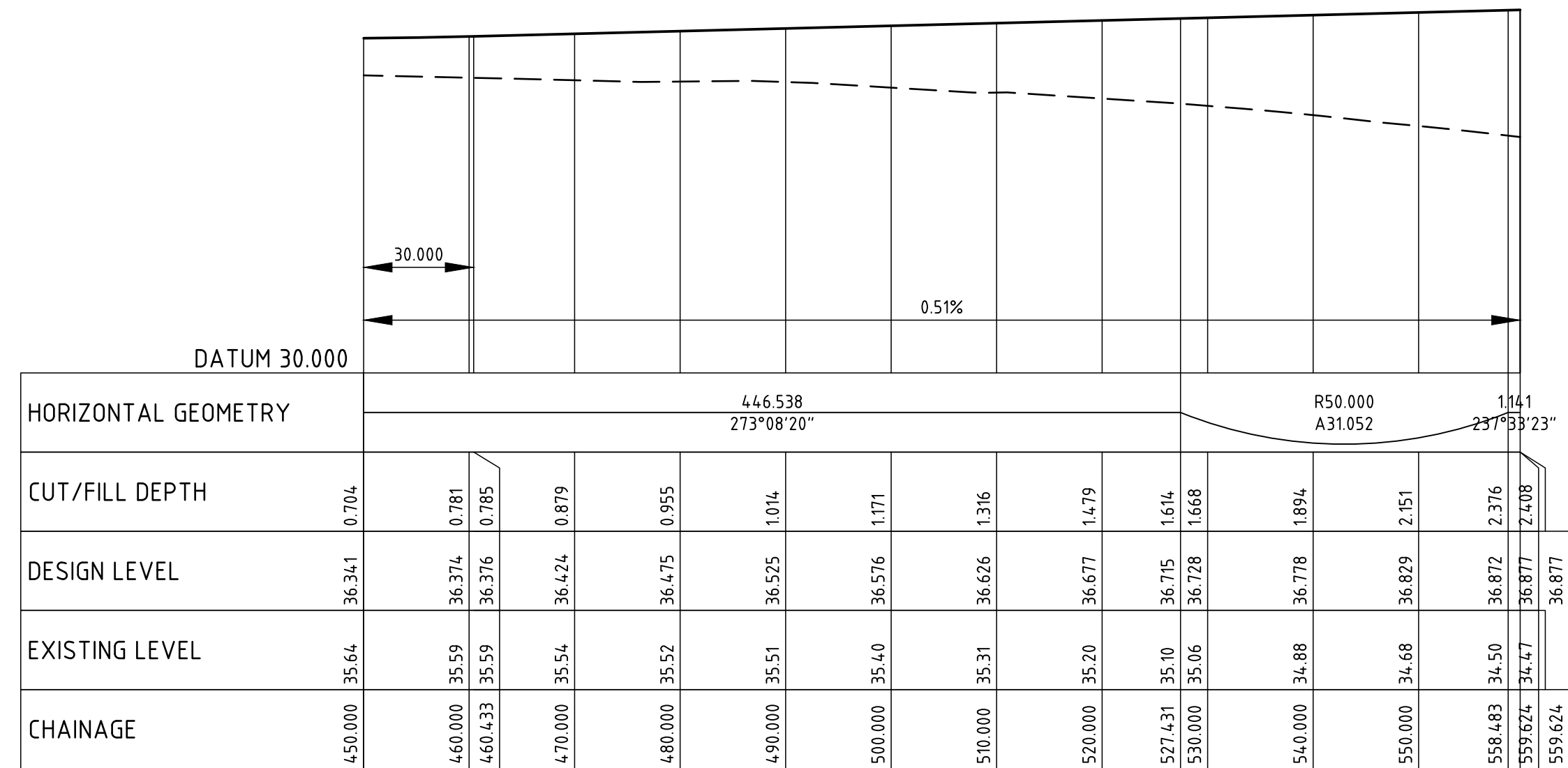
LONGITUDINAL SECTION - CL ACCESS ROAD 2

HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



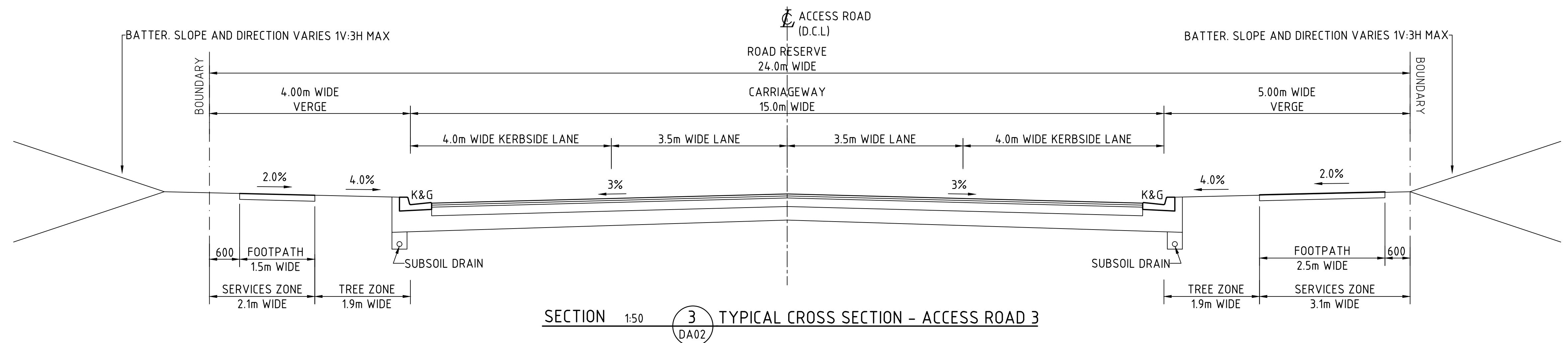
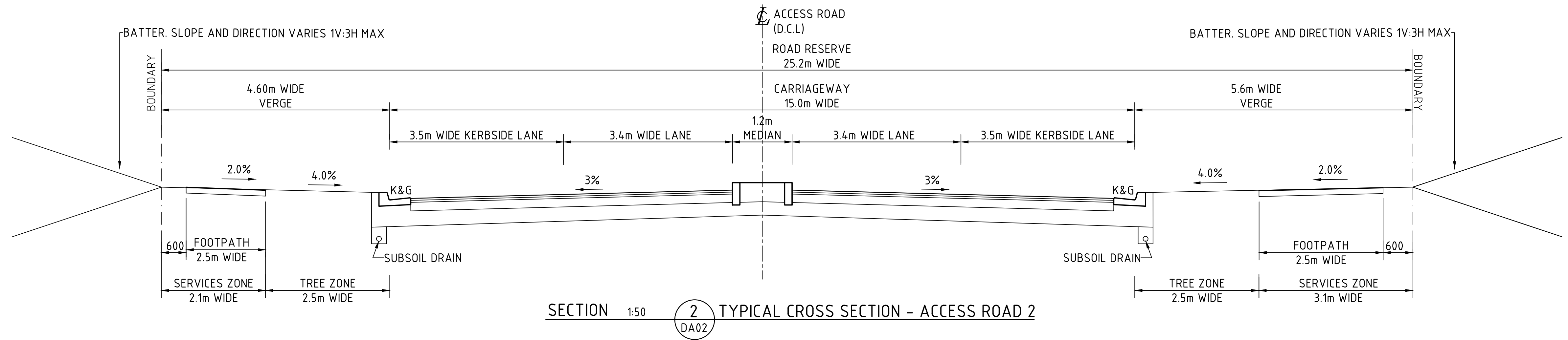
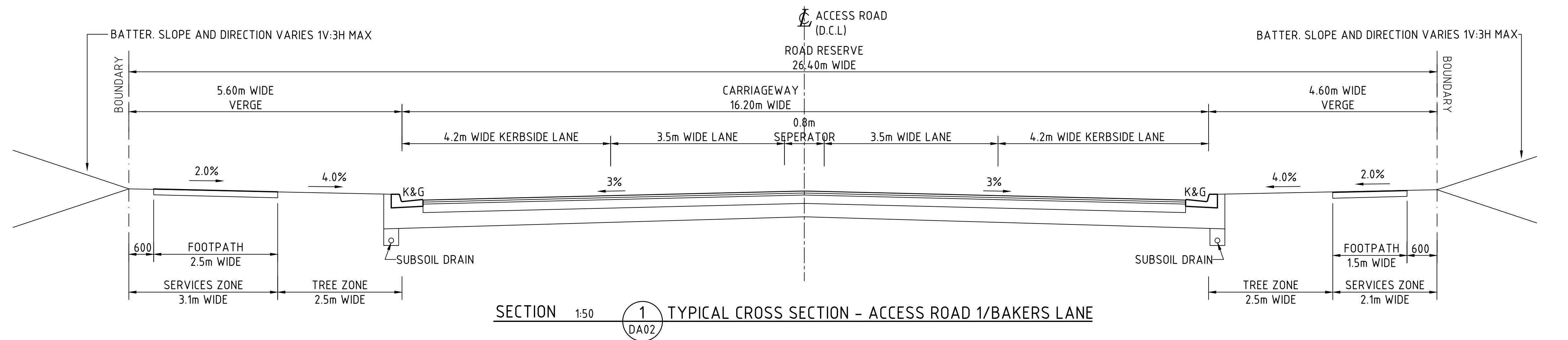
LONGITUDINAL SECTION - CL ACCESS ROAD 3

HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



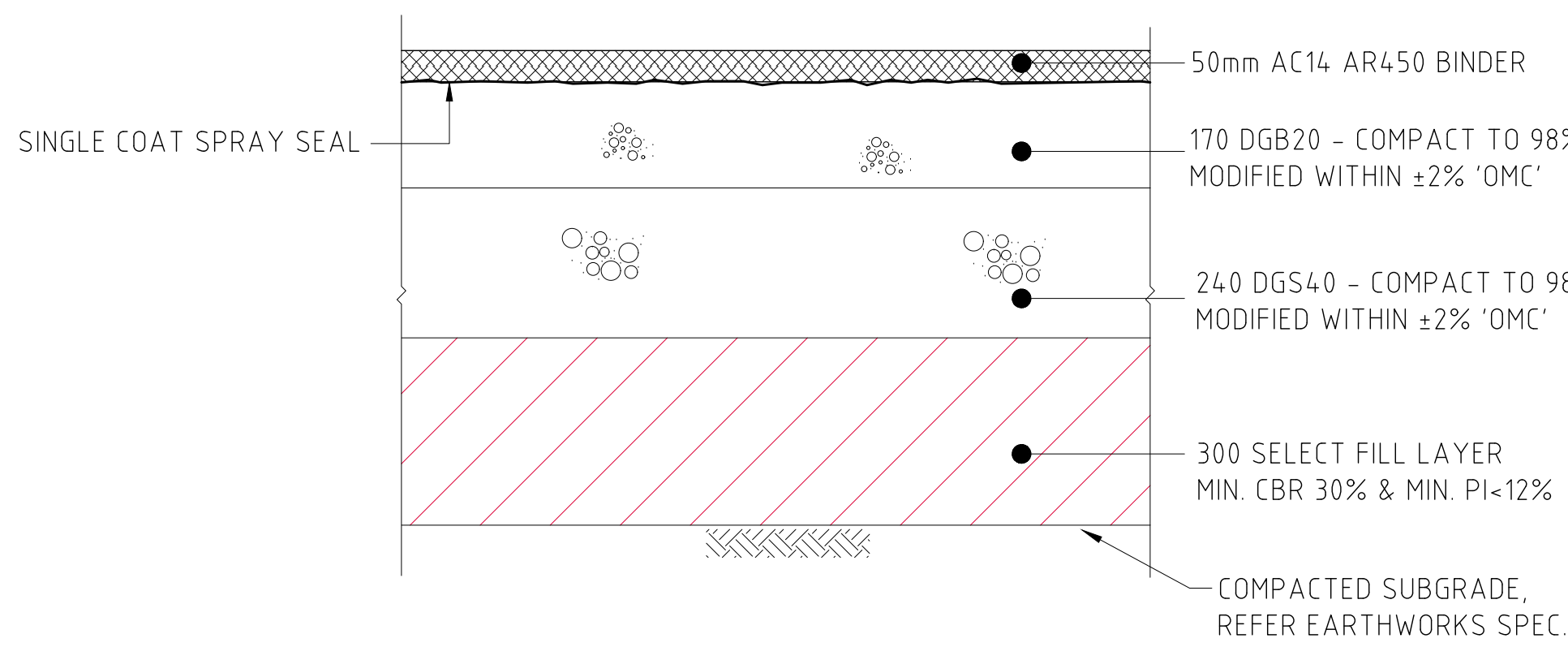
LONGITUDINAL SECTION - CL ACCESS ROAD 3

HORIZONTAL SCALE 1:500  
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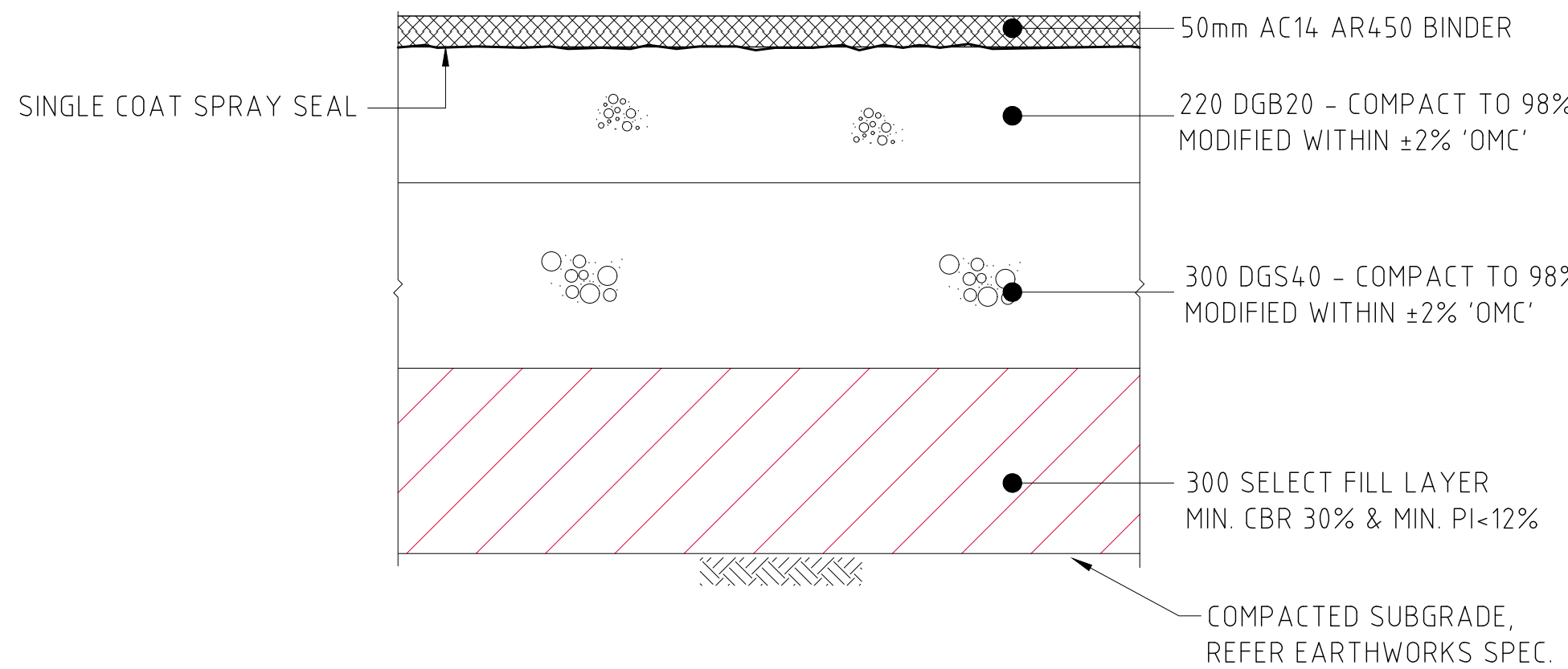
FOR DEVELOPMENT APPLICATION





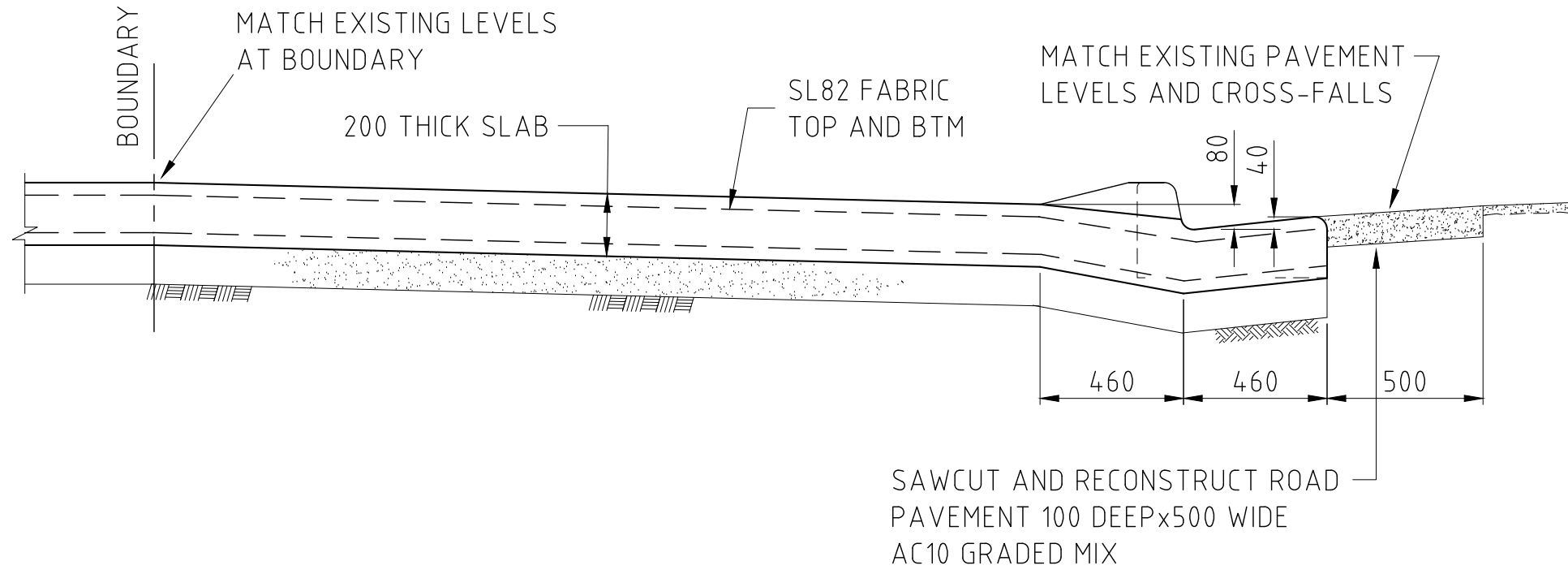
STANDARD INDUSTRIAL ACCESS PEVEMENT DETAILS

SCALE 1:10  
DESIGN TRAFFIC 1x10<sup>7</sup> ESA's  
DESIGN CBR VALUE OF 2%  
NOTE: FINAL DESIGN SUBJECT TO  
FURTHER TESTING TO CONFIRM  
CBR VALUE



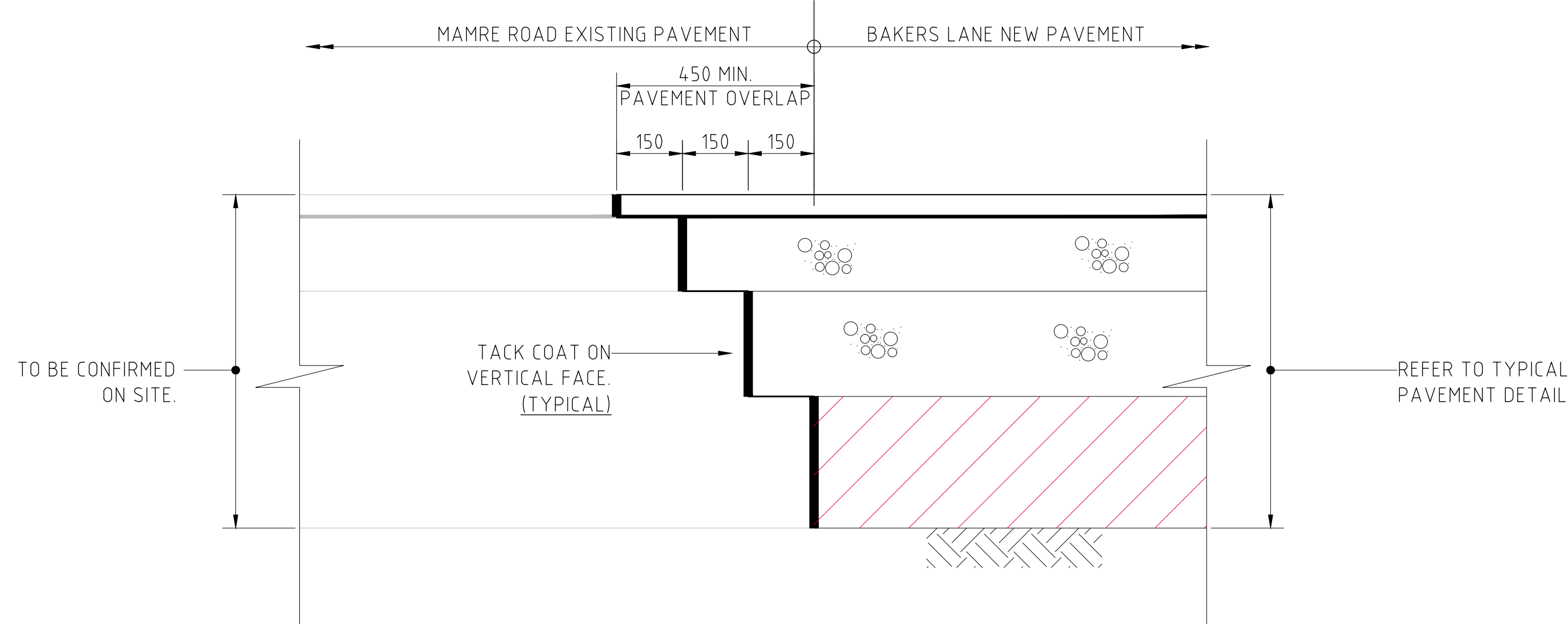
NORTH - SOUTH DISTRIBUTOR PAVEMENT DETAILS

SCALE 1:10  
DESIGN TRAFFIC 5x10<sup>7</sup> ESA's  
DESIGN CBR VALUE OF 2%  
NOTE: FINAL DESIGN SUBJECT TO  
FURTHER TESTING TO CONFIRM  
CBR VALUE



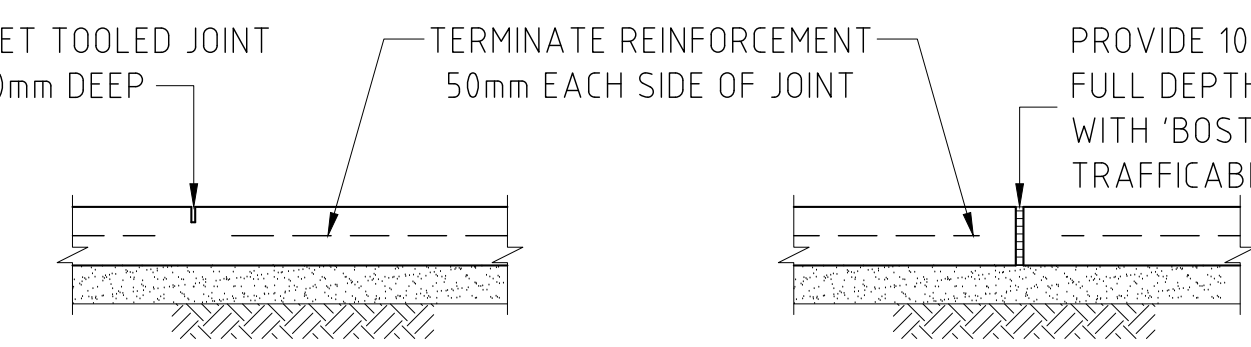
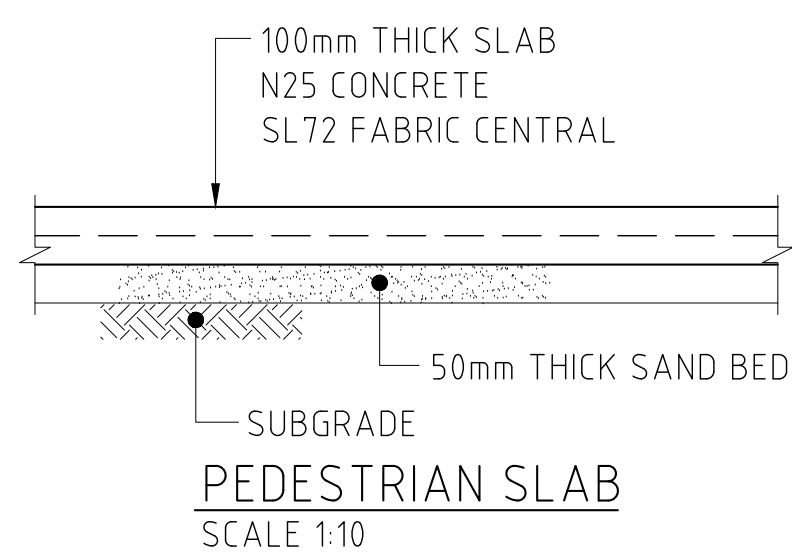
INDUSTRIAL VEHICULAR CROSS OVER DETAIL - IVC

SCALE 1:20



TYPICAL NEW / EXISTING  
PAVEMENT INTERFACE DETAIL

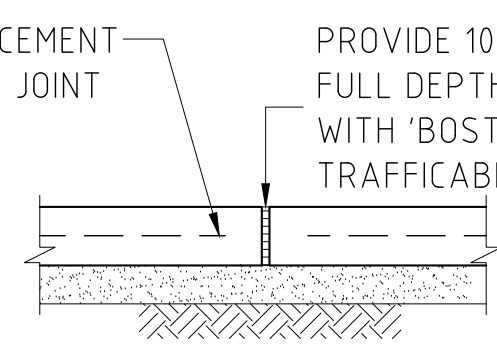
SCALE 1:10



WET TOOLED JOINT

SCALE 1:10

NOTE: PROVIDE SAWCUT  
JOINTS AT 2000 MAX. CTS.

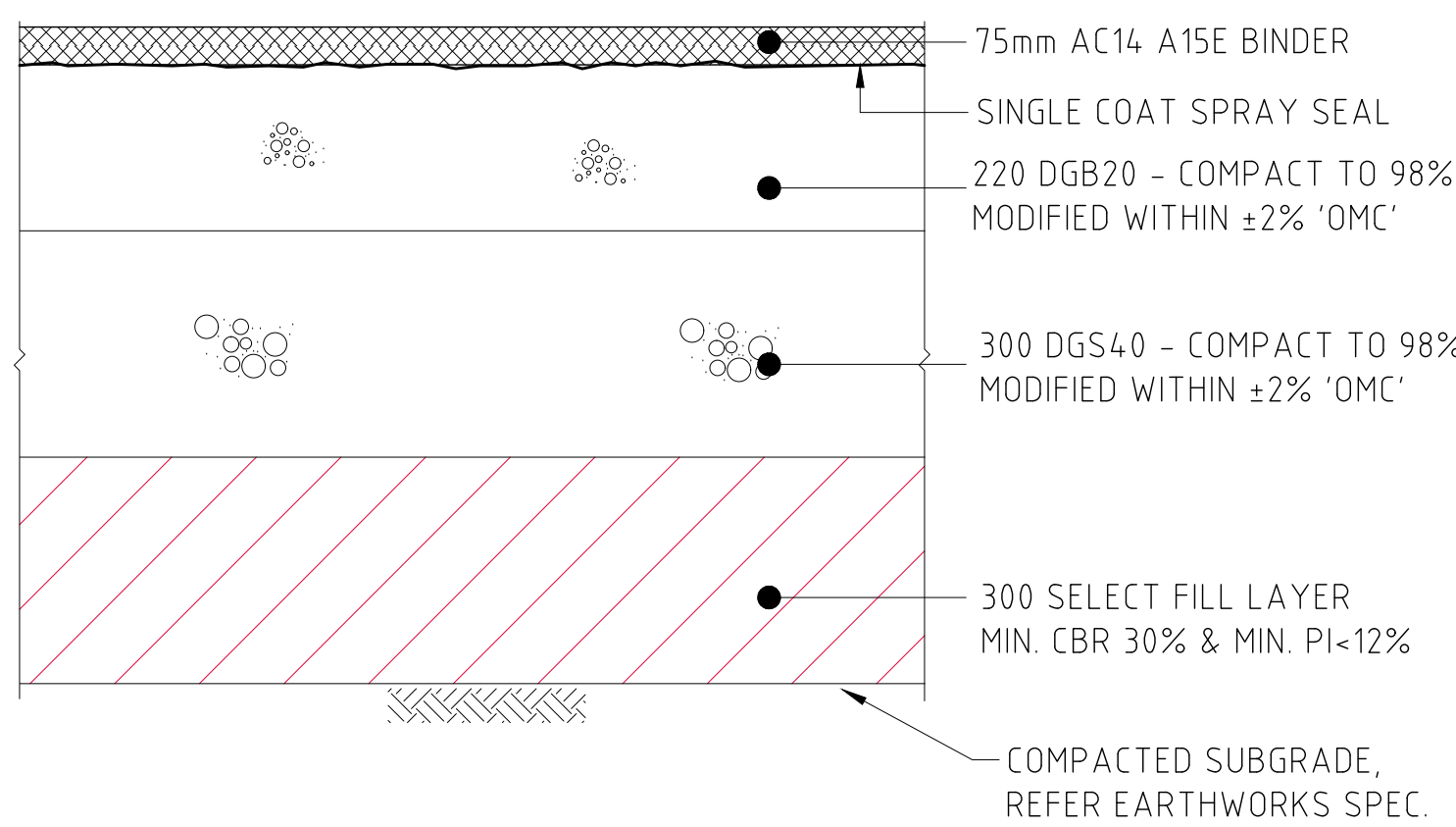


BUTT JOINT

SCALE 1:10

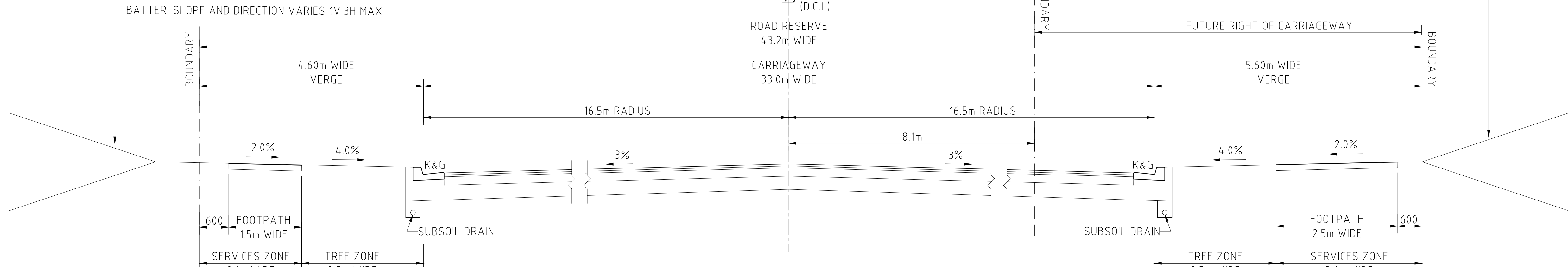
NOTE: PROVIDE EXPANSION  
JOINTS AT 6000 MAX. CTS.

PEDESTRIAN SLAB DETAILS



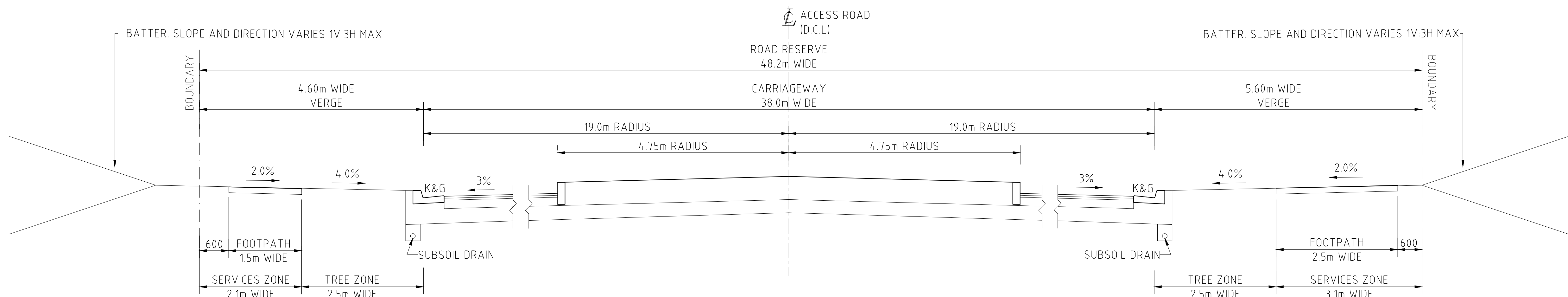
CUL-DE-SAC PAVEMENT DETAILS

SCALE 1:10  
DESIGN TRAFFIC 5x10<sup>7</sup> ESA's  
DESIGN CBR VALUE OF 2%  
NOTE: FINAL DESIGN SUBJECT TO  
FURTHER TESTING TO CONFIRM  
CBR VALUE



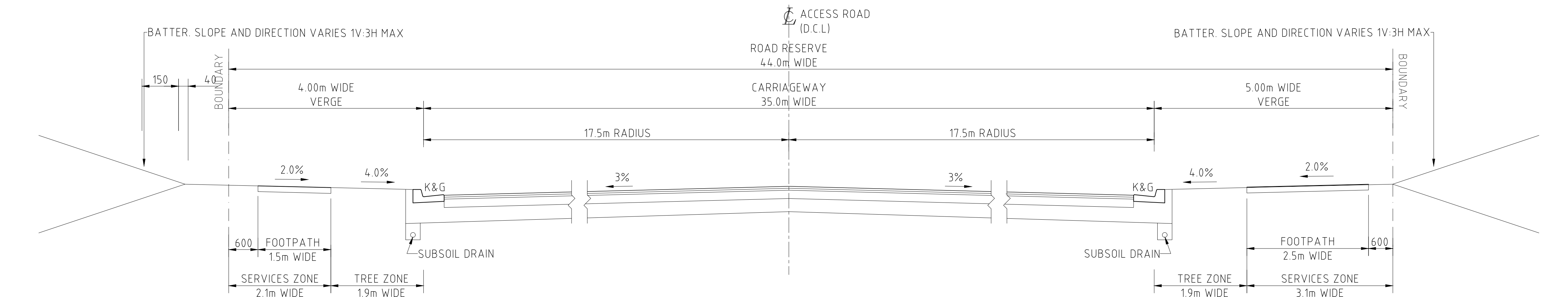
TYPICAL CROSS SECTION - ACCESS ROAD 1 CUL-DE-SAC

SCALE 1:50



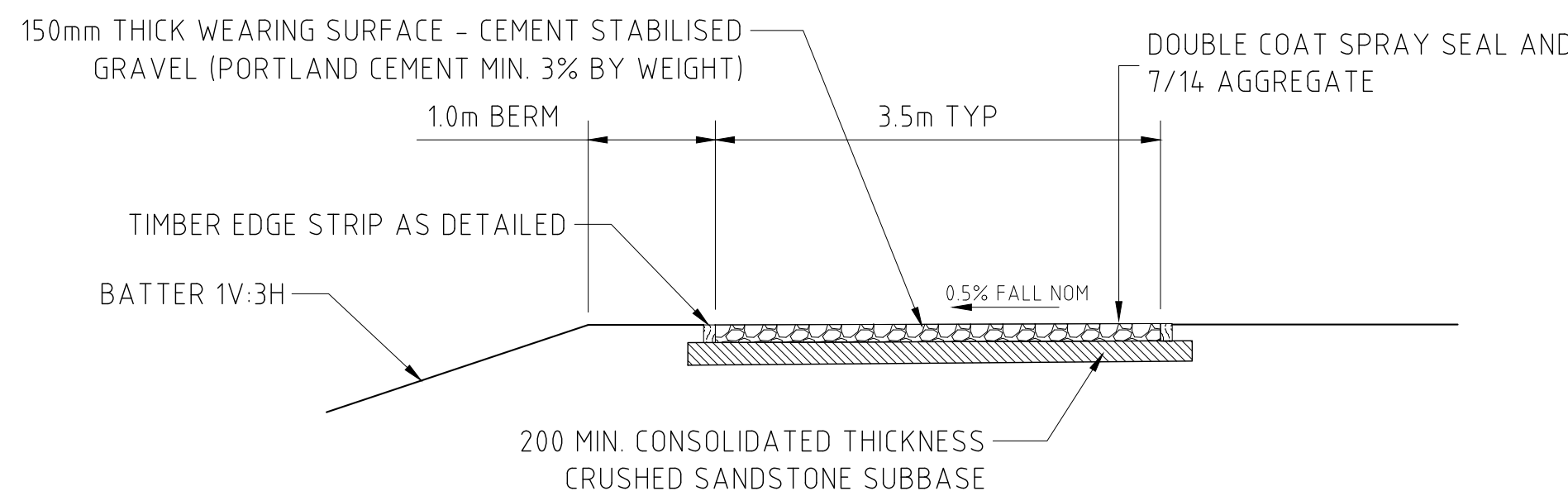
TYPICAL CROSS SECTION - ACCESS ROAD 2 CUL-DE-SAC

SCALE 1:50



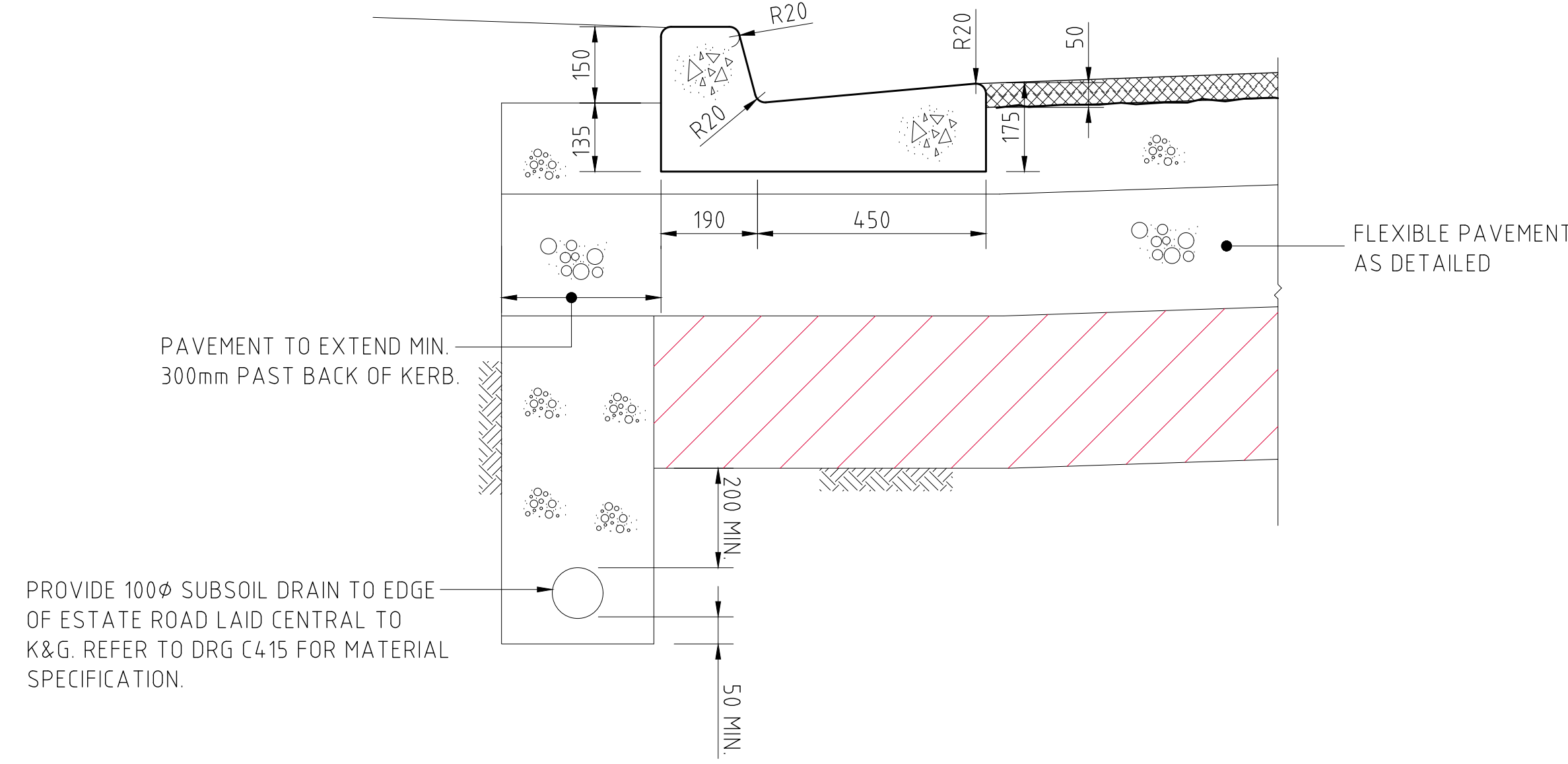
TYPICAL CROSS SECTION - ACCESS ROAD 3 CUL-DE-SAC

SCALE 1:50



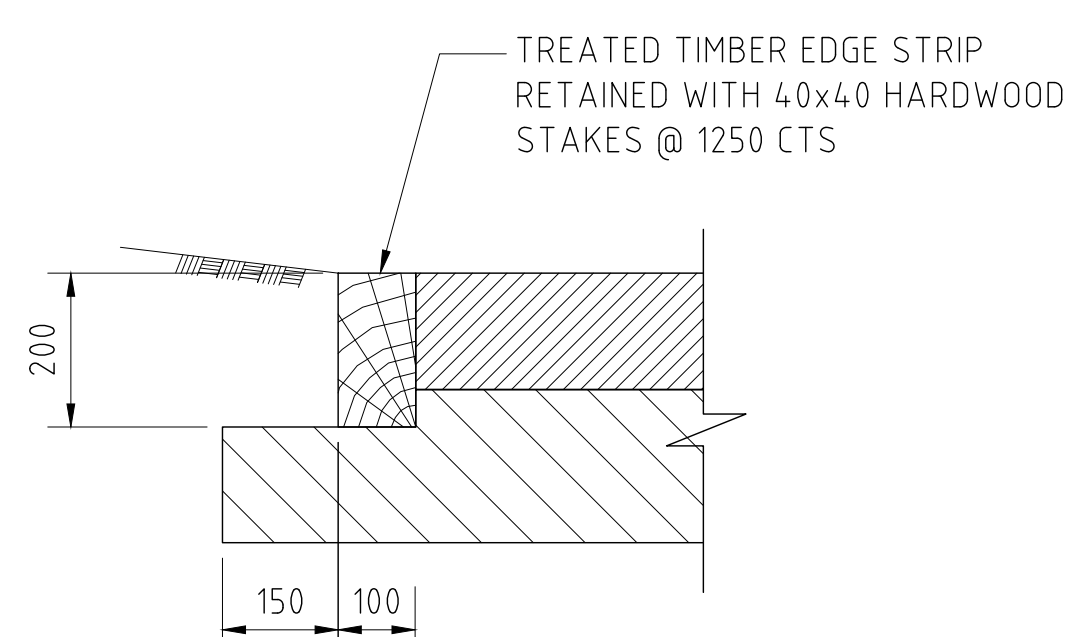
BASIN MAINTENANCE ACCESS  
TRACK PAVEMENT DETAIL

SCALE 1:50



PENRITH CITY COUNCIL KERB & GUTTER

SCALE 1:10



TIMBER EDGE STRIP DETAIL

SCALE 1:10

500mm 0 1 2 3 4 5m  
SCALE 1:50 AT A0 SIZE SHEET

100mm 0 200 400 600 800 1000mm  
SCALE 1:10 AT A0 SIZE SHEET

200mm 0 500 1000 1500 2000mm  
SCALE 1:20 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE
CUL-DE-SAC SECTIONS ADDED	02.09.21	B						
ISSUED FOR DEVELOPMENT APPLICATION	25.06.21	A						

**ALTIS**  
PROPERTY PARTNERS

**FRASERS**  
PROPERTY

PROJECT  
MAMRE SOUTH PRECINCT  
657 - 708 MAMRE ROAD  
KEMPS CREEK, 2178, NSW

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**Costin Roe Consulting**

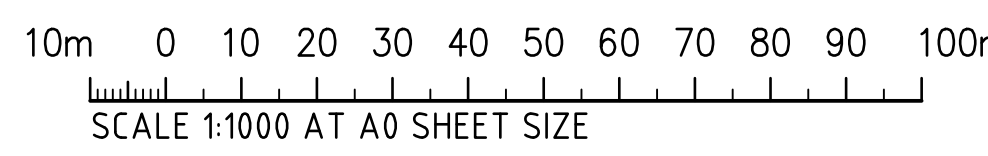
PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE  
ROADWORKS DETAILS

DRAWING NO.  
C013362.00-DA05

ISSUE  
B





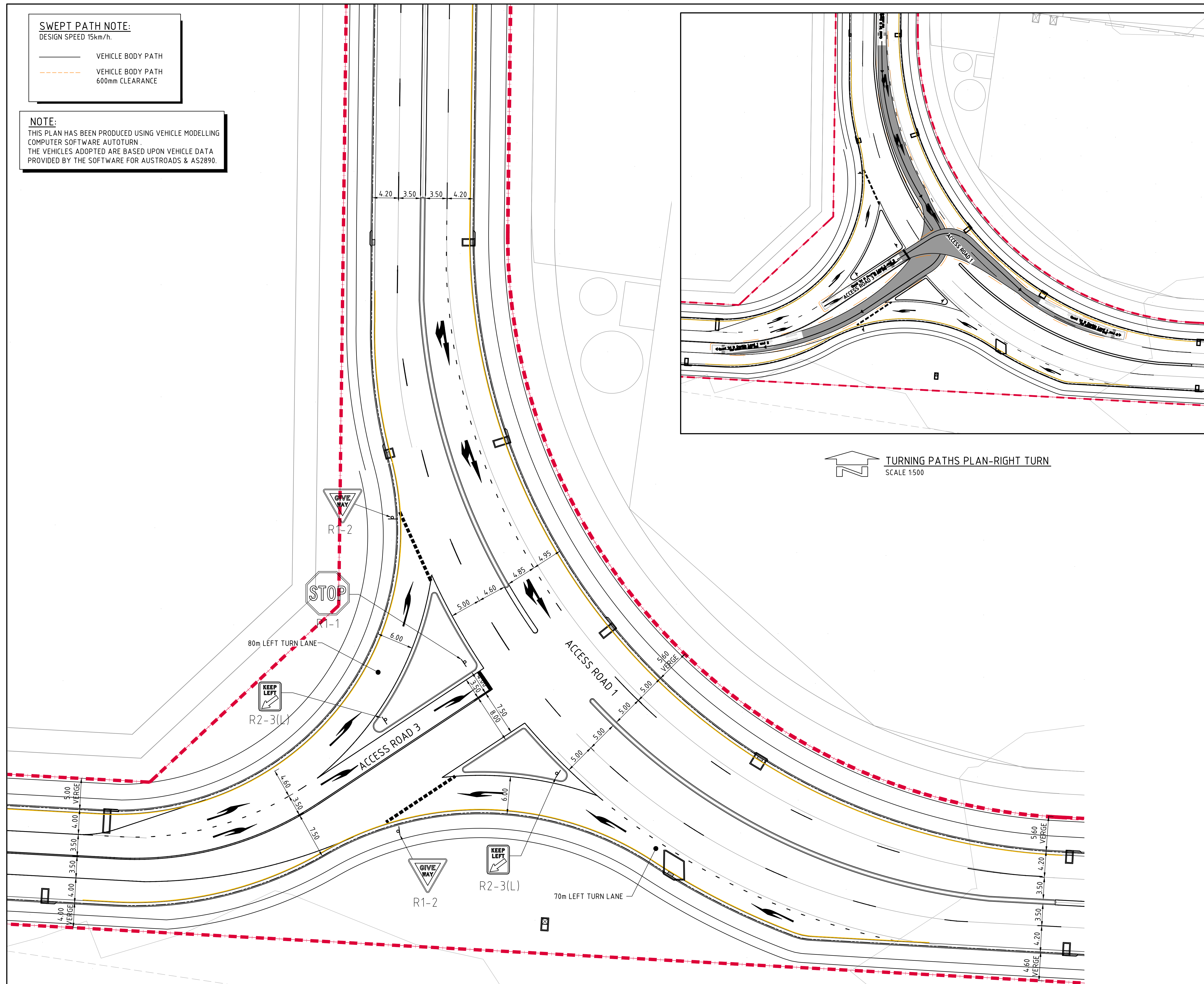
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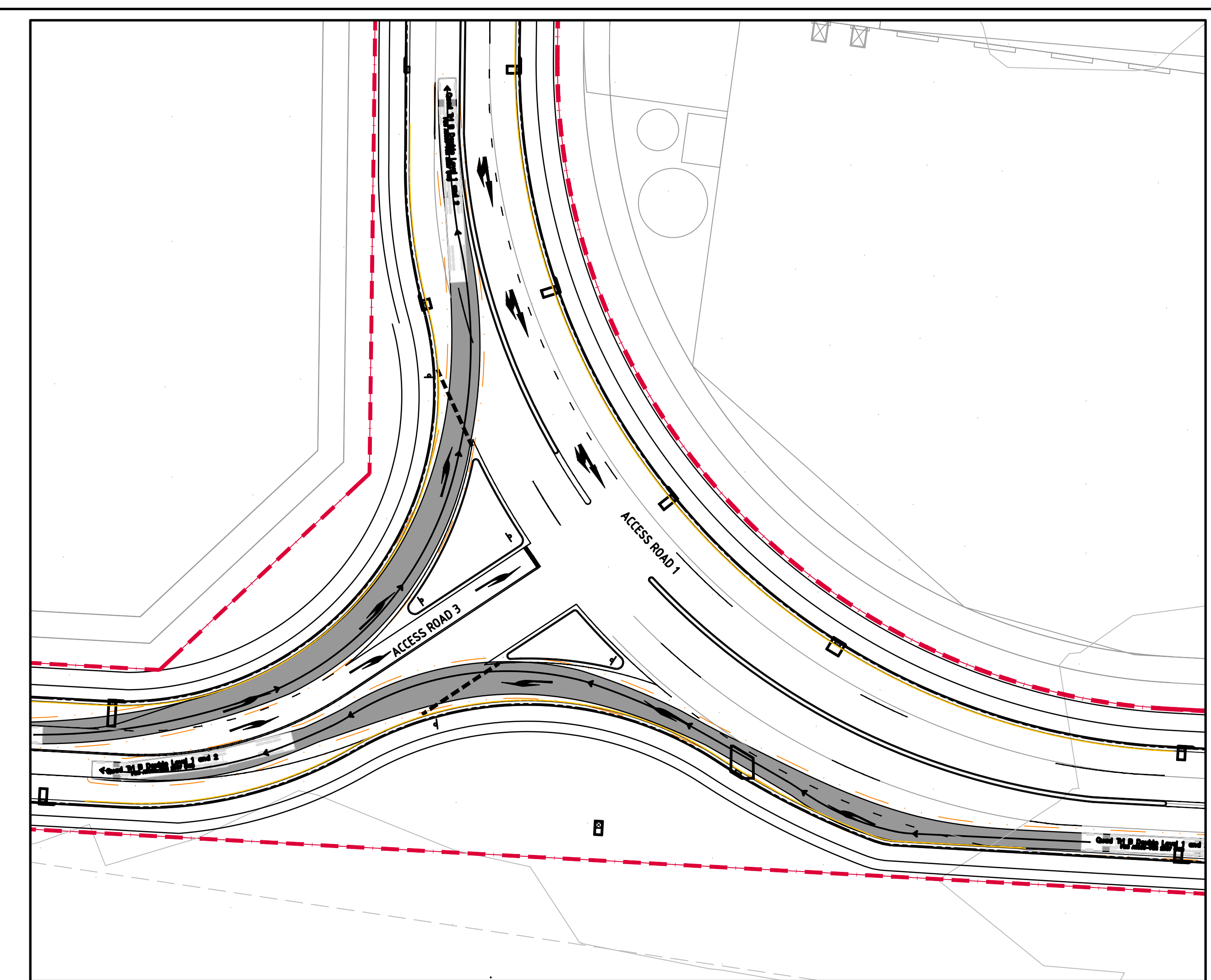


— VEHICLE BODY PATH  
- - - VEHICLE BODY PATH  
600mm CLEARANCE

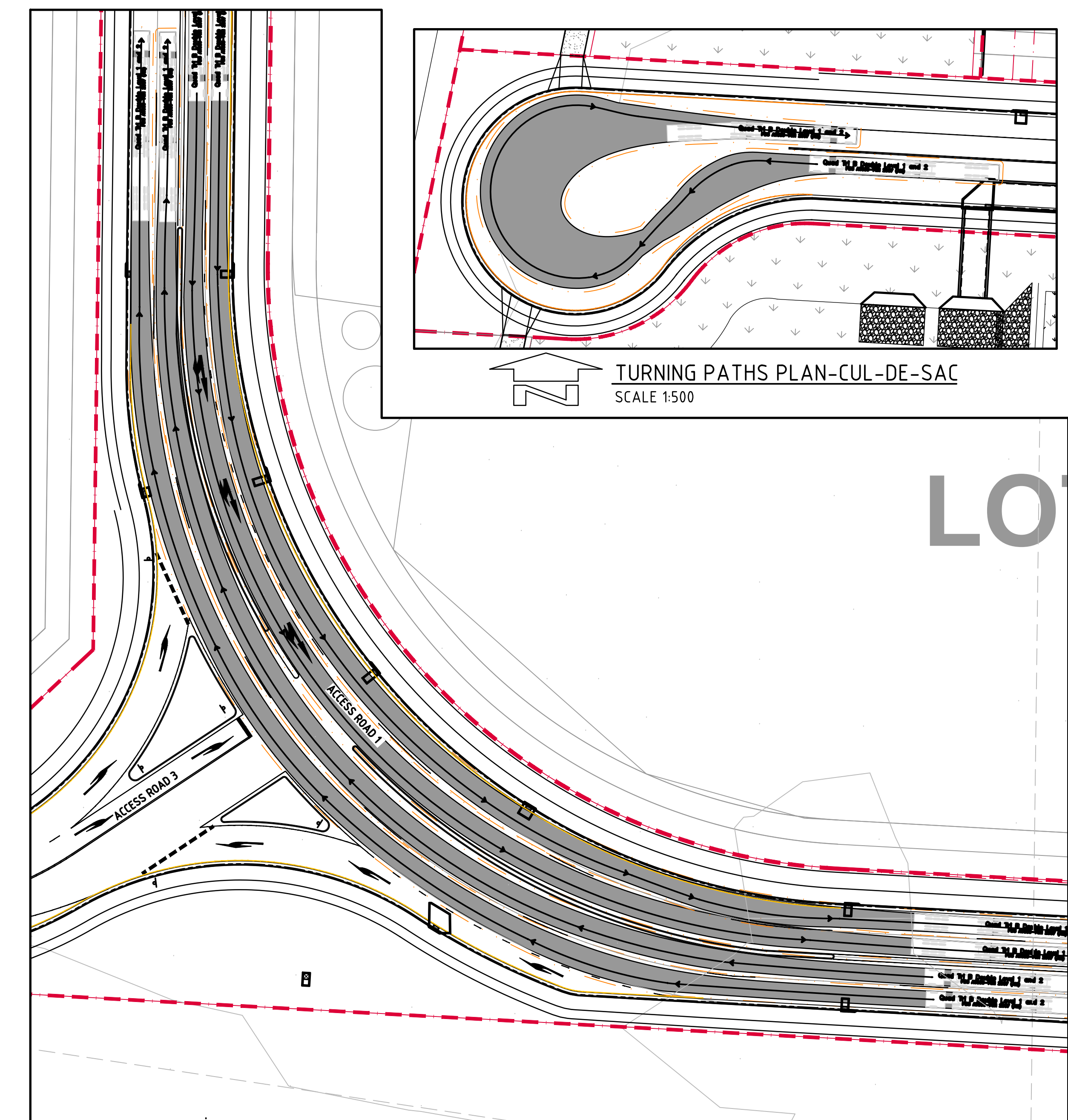
THIS PLAN HAS BEEN PRODUCED USING VEHICLE MODELLING  
COMPUTER SOFTWARE AUTOTURN .  
THE VEHICLES ADOPTED ARE BASED UPON VEHICLE DATA  
PROVIDED BY THE SOFTWARE FOR AUSTRROADS & AS2890.



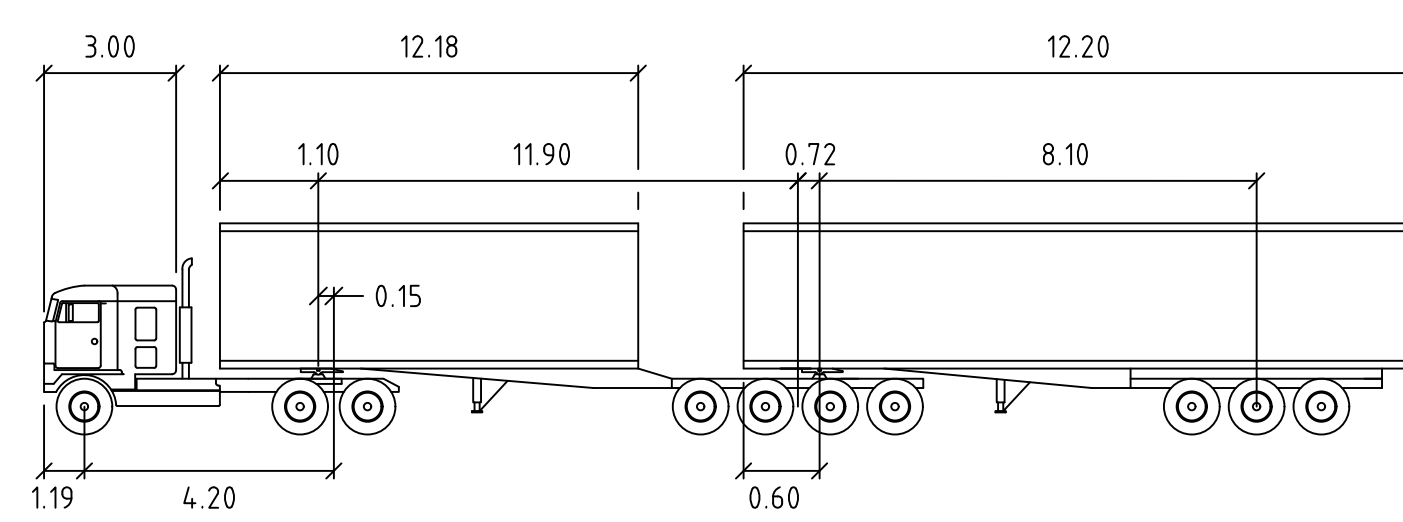
**TURNING PATHS PLAN-RIGHT TURN**  
SCALE 1:500



TURNING PATHS PLAN-LEFT TURN  
SCALE 1:500



TURNING PATHS PLAN-STRAIGHT  
SCALE 1:500



N.T.S.	meters		
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 22.7
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

 **INTERSECTION 1 PLAN - ROAD 1 & 3**  
SCALE 1:250

**FOR DEVELOPMENT APPLICATION**

[illegible]

PROJECT  
MAMRE SOUTH PRECINCT  
657 - 708 MAMRE ROAD  
KEMPS CREEK, 2178, NSW



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 email: [mail@costinroe.com.au](mailto:mail@costinroe.com.au) ©

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DRAWING TITLE  
INTERSECTION 1 PLAN

DRAWING No C013362.00-DA07

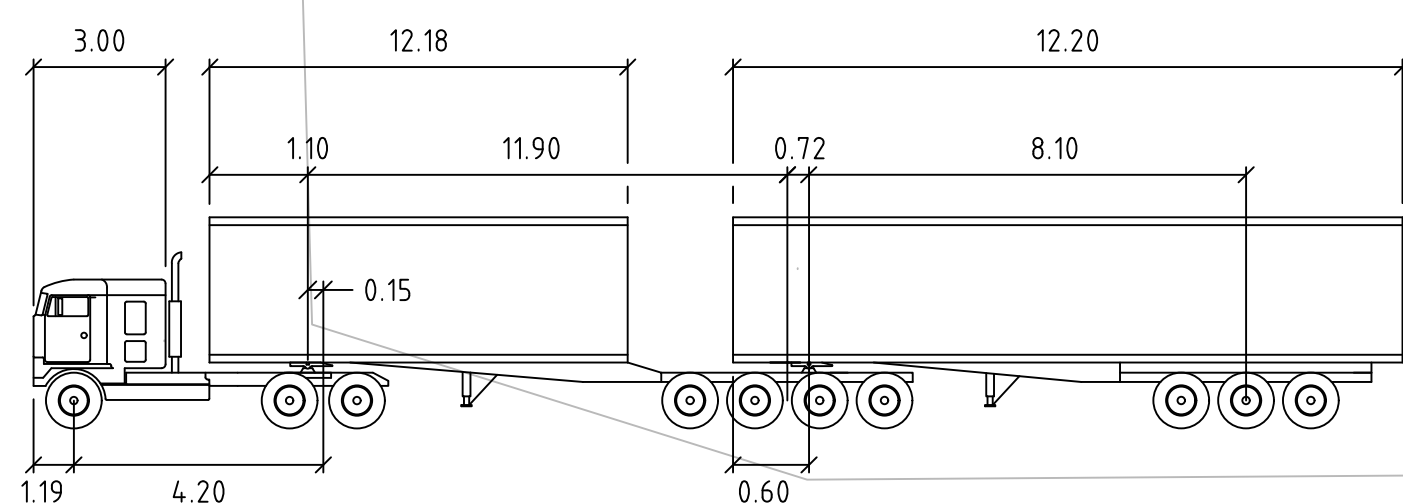
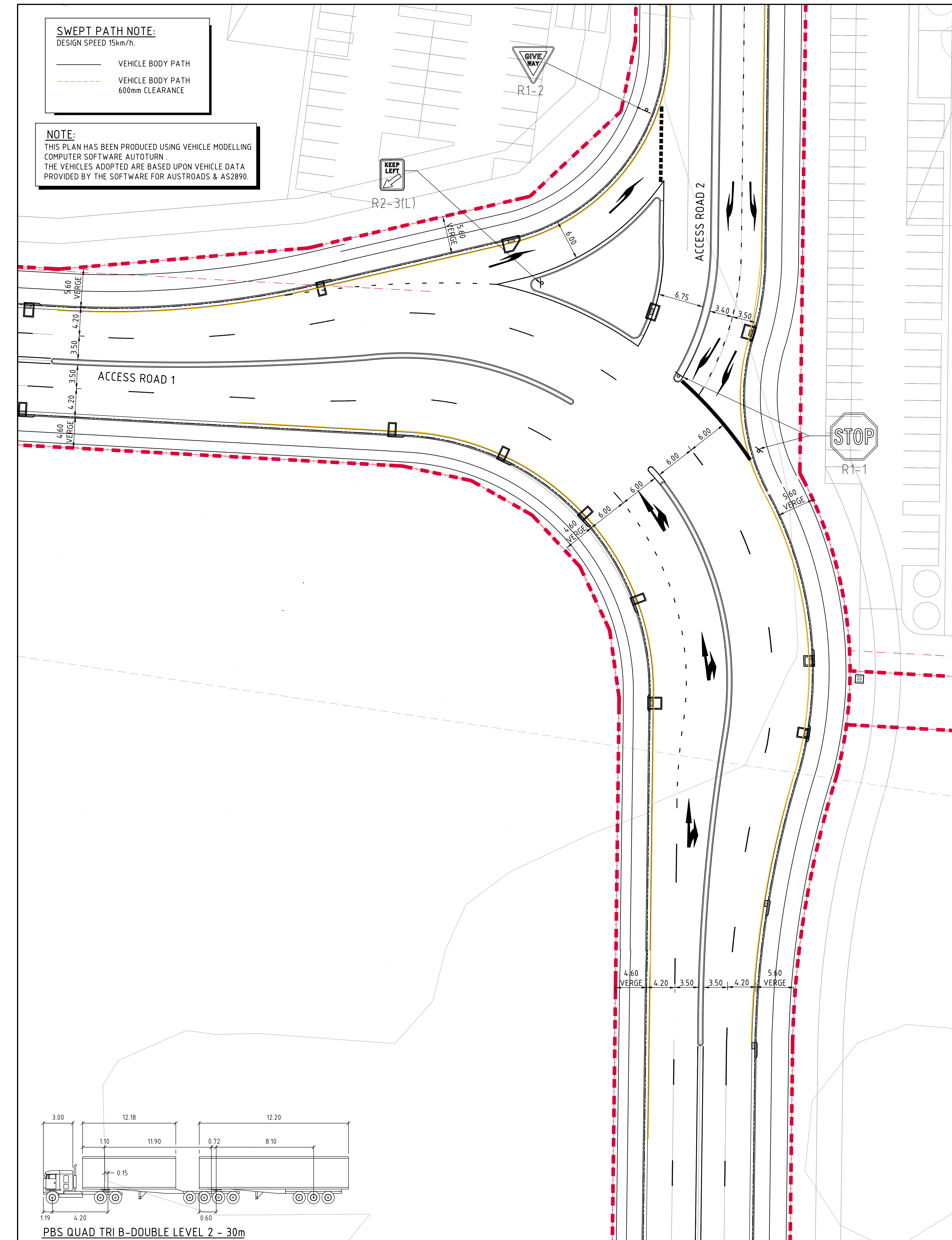
UE  
C



**SWEPT PATH NOTE:**  
DESIGN SPEED 15km/h.

— VEHICLE BODY PATH  
- - - VEHICLE BODY PATH  
600mm CLEARANCE

**NOTE:**  
THIS PLAN HAS BEEN PRODUCED USING VEHICLE MODELLING  
COMPUTER SOFTWARE AUTOTURN.  
THE VEHICLES ADOPTED ARE BASED UPON VEHICLE DATA  
PROVIDED BY THE SOFTWARE FOR AUSTRROADS & AS2890.

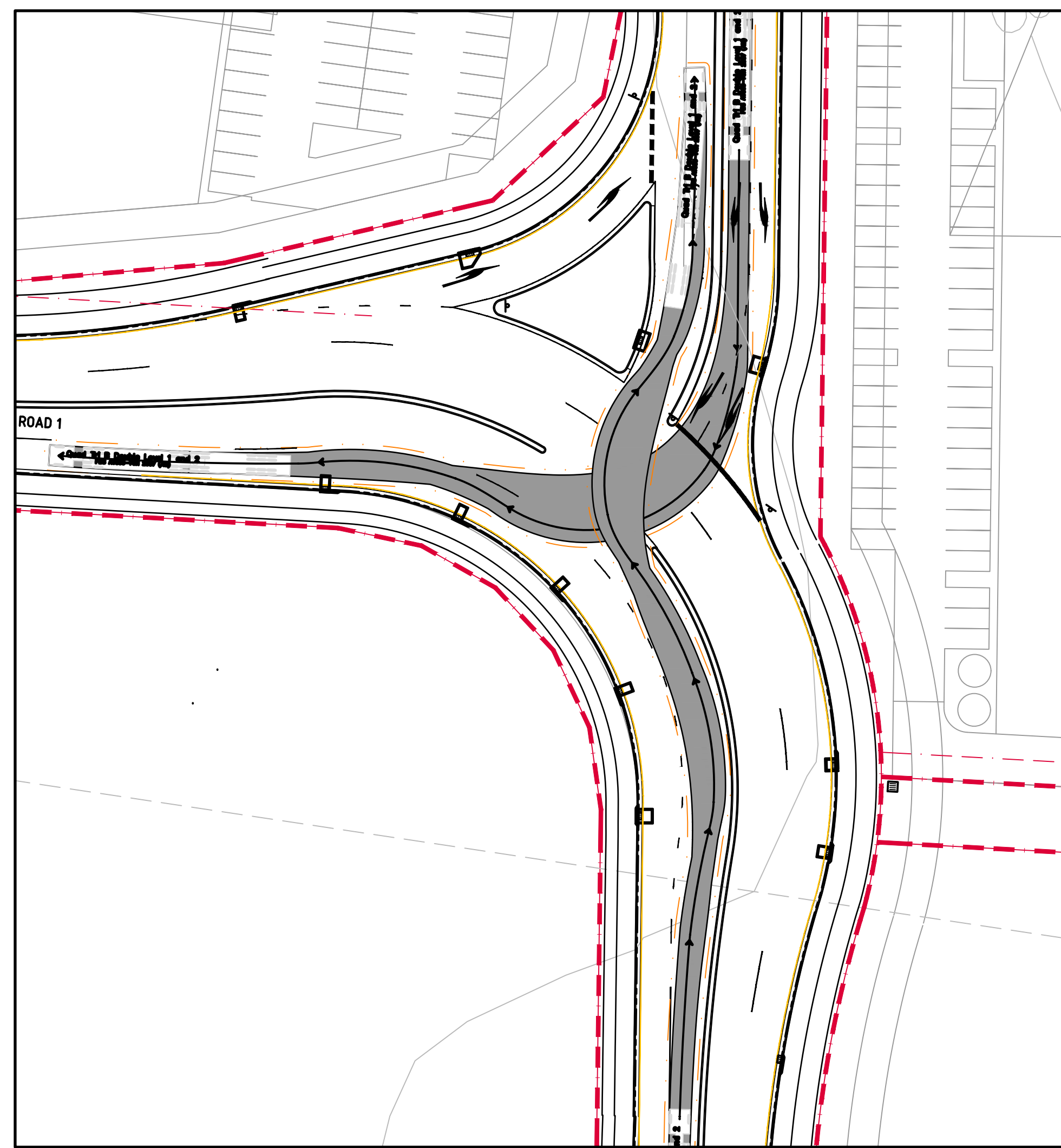


**PBS QUAD TRI B-DOUBLE LEVEL 2 - 30m**  
N.T.S.

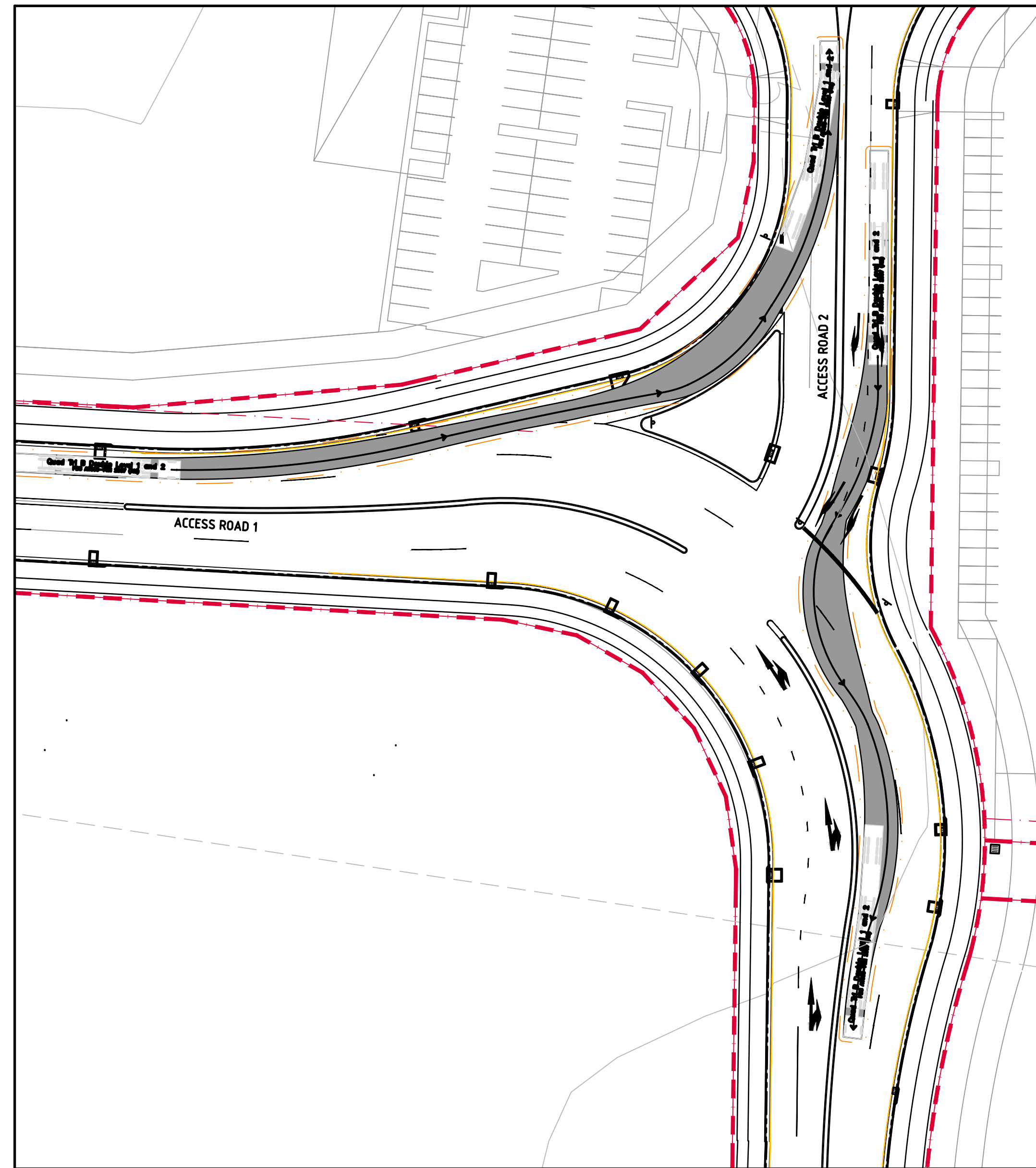
Tractor Width : 2.50 Lock to Lock Time : 6.0  
Trailer Width : 2.50 Steering Angle : 22.7  
Tractor Track : 2.50 Articulating Angle : 70.0  
Trailer Track : 2.50

**INTERSECTION 2 PLAN - ROAD 1 & 2**  
SCALE 1:250

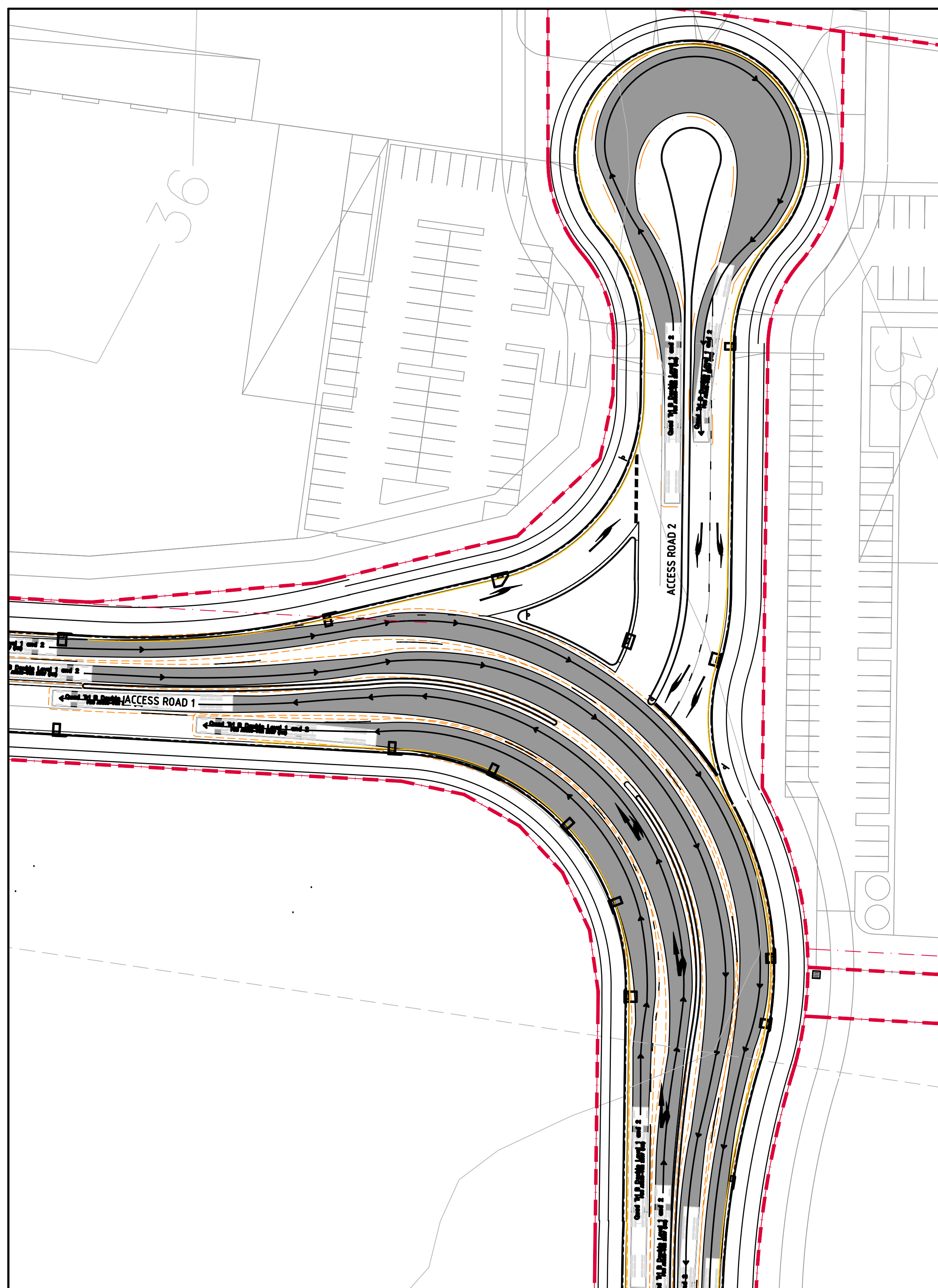
**FOR DEVELOPMENT APPLICATION**



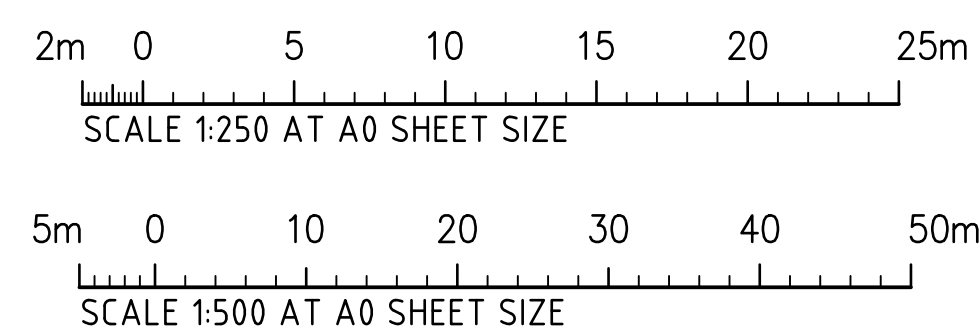
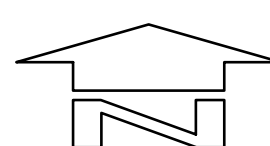
**TURNING PATHS PLAN-RIGHT TURN**  
SCALE 1:500



**TURNING PATHS PLAN-LEFT TURN**  
SCALE 1:500



**TURNING PATHS PLAN-CUL-DE-SAC**  
SCALE 1:500



**TURNING PATHS PLAN-STRAIGHT**  
SCALE 1:500

AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	01.09.21	C						
ISSUED FOR DEVELOPMENT APPLICATION	05.07.21	B						
ISSUED FOR DEVELOPMENT APPLICATION	25.06.21	A						

**ALTIS**  
PROPERTY PARTNERS

**FRASERS**  
PROPERTY

**PROJECT**  
MAMRE SOUTH PRECINCT  
657 - 708 MAMRE ROAD  
KEMPS CREEK, 2178, NSW

DESIGNED: [blank] DRAWN: [blank] DATE: [blank] CHECKED: [blank] SIZE: [blank] SCALE: [blank] CAD REF: [blank]

**COSTIN ROE**

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**Costin Roe Consulting**

PRECISION | COMMUNICATION | ACCOUNTABILITY

**DRAWING TITLE**  
INTERSECTION 2 PLAN

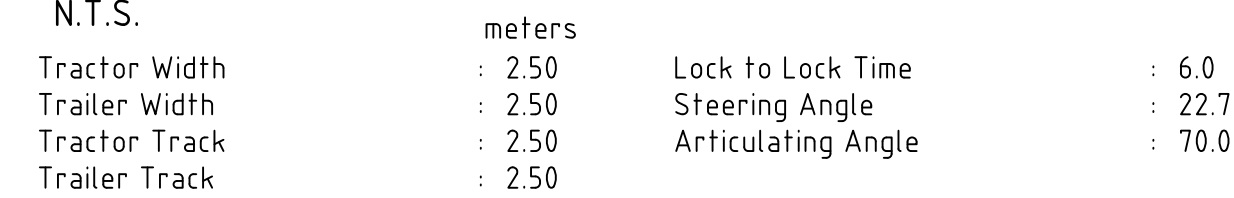
DRAWING No: C013362.00-DA08

ISSUE









**NOTE:**  
SAFE INTERSECTION SITE DISTANCE (SISD) IN ACCORDANCE  
WITH SECTION 3.2.2 OF AUSTRROADS GUIDE TO ROAD DESIGN  
PART 4A, MINIMUM REQUIRED SISD FOR DESIGN SPEED OF  
70Km/Hr IS 151m FOR  $R_T=2.0$  SEC

**NOTE:**  
MINIMUM GAP SITE DISTANCE (MGSD) IN ACCORDANCE WITH  
SECTION 3.2.3 OF AUSTRROADS GUIDE TO ROAD DESIGN PART 4A.  
MINIMUM REQUIRED MGSD FOR DESIGN SPEED OF 70Km/Hr IS 78m  
FOR CRITICAL GAP ACCEPTANCE TIME =4.0 SEC

**NOTE:**  
THIS PLAN HAS BEEN PRODUCED USING VEHICLE MODELLING  
COMPUTER SOFTWARE AUTOTURN.  
THE VEHICLES ADOPTED ARE BASED UPON VEHICLE DATA  
PROVIDED BY THE SOFTWARE FOR AUSTRROADS & AS2890.

