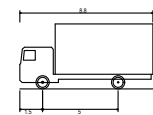




**NOTES**

1. NO ASSESSMENT HAS BEEN UNDERTAKEN FOR EXISTING PAVEMENT.
2. TURN PATHS PRESENTED IS THE INTENDED OPERATIONS OF TRAFFIC ASSOCIATED WITH GOULBURN SOLAR FARM. ONLY THE DISPLAYED MOVEMENTS WILL BE PERMITTED.
3. SURVEY SHOWN HAS BEEN PROVIDED BY UMWELT (11/09/2023).
4. BOUNDARIES HAVE BEEN SOURCED FROM SIX MAPS "Clip 'n' Snip".
5. NO ASSESSMENT HAS BEEN UNDERTAKEN FOR THE EXISTING GOLDEN HIGHWAY AND RINGWOOD ROAD INTERSECTION RIGHT TURN IN AND RIGHT TURN OUT MOVEMENTS. EXISTING VEHICLE MOVEMENTS AND INTERSECTION LAYOUT TO BE RESPECTED.

**VEHICLE TURN PATH PROFILE**



Service Vehicle (8.8 m)  
 Overall Length 8.800m  
 Overall Width 2.500m  
 Overall Body Height 4.200m  
 Min Body Ground Clearance 0.427m  
 Track Width 2.500m  
 Lock-to-lock time 4.00s  
 Curb to Curb Turning Radius 12.500m

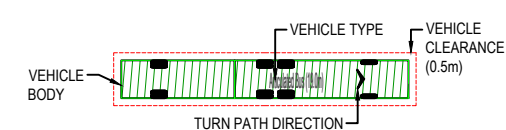
**GENERAL**

- DESIGN
- CADASTRAL
- SURVEY
- SAFETY BARRIER

**ROAD GEOMETRY**

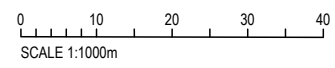
- CONTROL LINE AND CHAINAGE
- CONTROL LINE LABEL

**VEHICLE TURN PATH LEGEND**



RINGWOOD ROAD

FOR INFORMATION ONLY

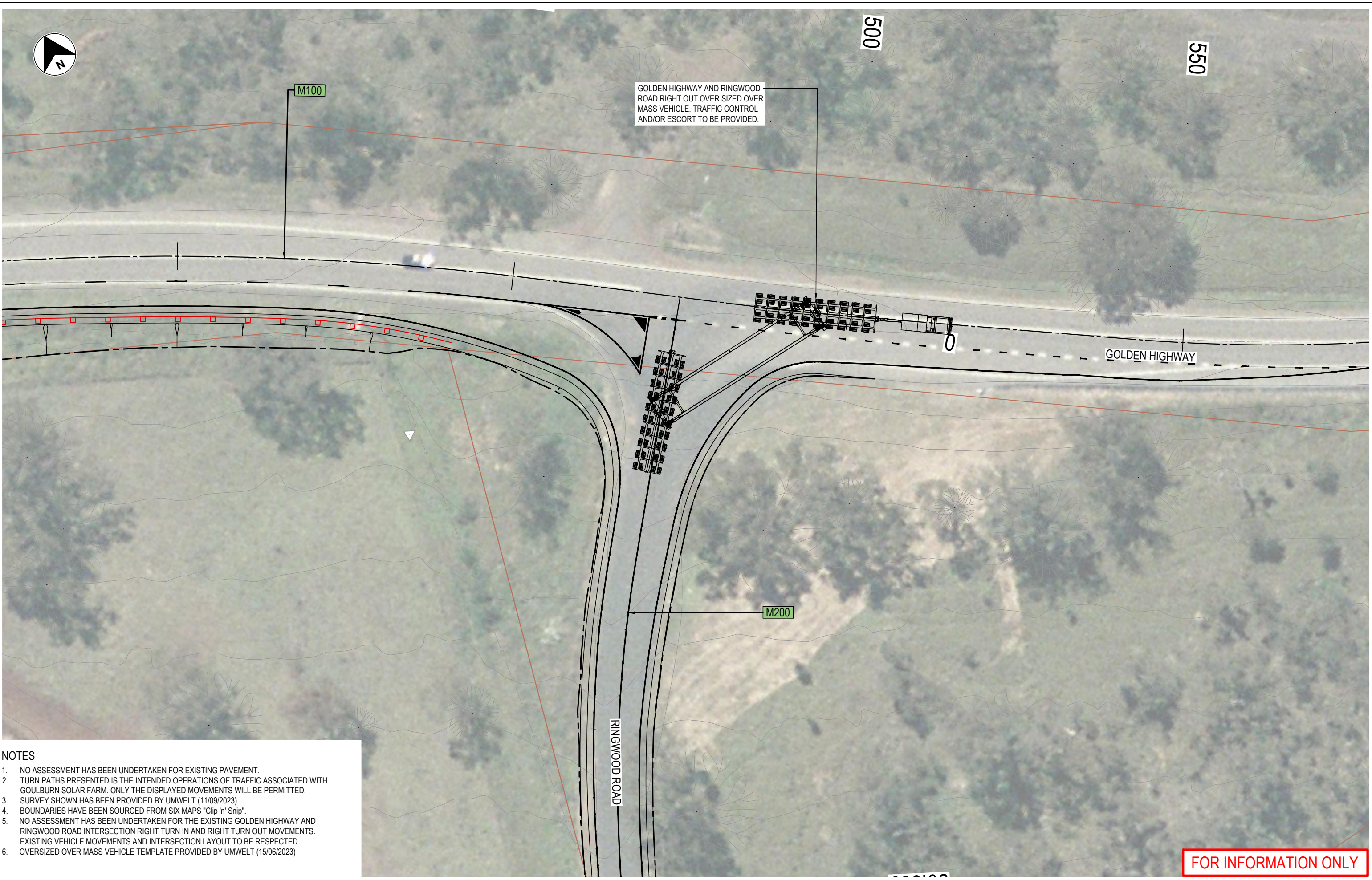


GOULBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SWEEP PATHS  
 SHEET 3 OF 4  
 27/10/2023



0305-INF-RD-SWEPT-PATH-RINGWOOD-03



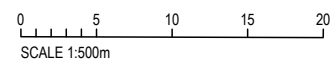
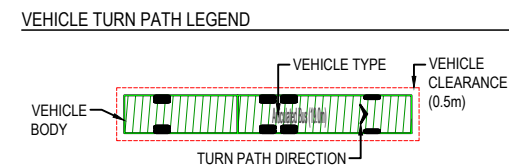


**NOTES**

1. NO ASSESSMENT HAS BEEN UNDERTAKEN FOR EXISTING PAVEMENT.
2. TURN PATHS PRESENTED IS THE INTENDED OPERATIONS OF TRAFFIC ASSOCIATED WITH GOULBURN SOLAR FARM. ONLY THE DISPLAYED MOVEMENTS WILL BE PERMITTED.
3. SURVEY SHOWN HAS BEEN PROVIDED BY UMWELT (11/09/2023).
4. BOUNDARIES HAVE BEEN SOURCED FROM SIX MAPS "Clip 'n' Snip".
5. NO ASSESSMENT HAS BEEN UNDERTAKEN FOR THE EXISTING GOLDEN HIGHWAY AND RINGWOOD ROAD INTERSECTION RIGHT TURN IN AND RIGHT TURN OUT MOVEMENTS. EXISTING VEHICLE MOVEMENTS AND INTERSECTION LAYOUT TO BE RESPECTED.
6. OVERSIZED OVER MASS VEHICLE TEMPLATE PROVIDED BY UMWELT (15/06/2023)

**FOR INFORMATION ONLY**

GENERAL	ROAD GEOMETRY
DESIGN	CONTROL LINE AND CHAINAGE
CADASTRAL	CONTROL LINE LABEL
SURVEY	
SAFETY BARRIER	



GOULBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SWEEP PATHS  
 SHEET 4 OF 4  
 27/10/2023



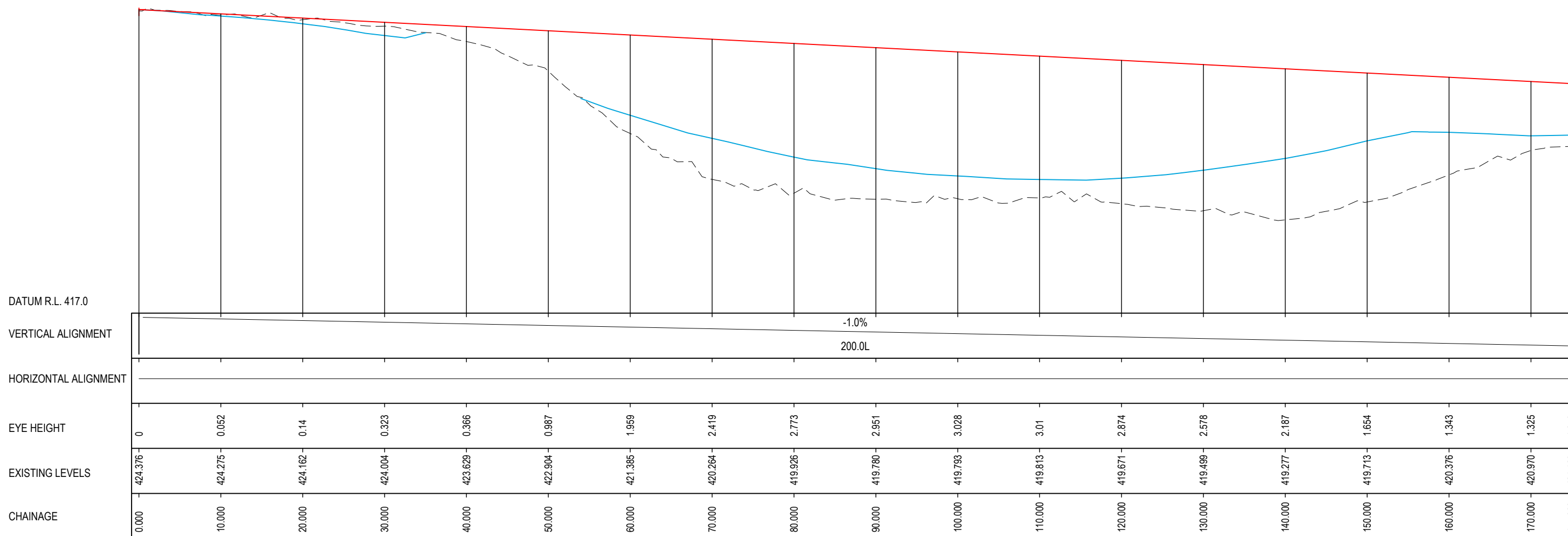
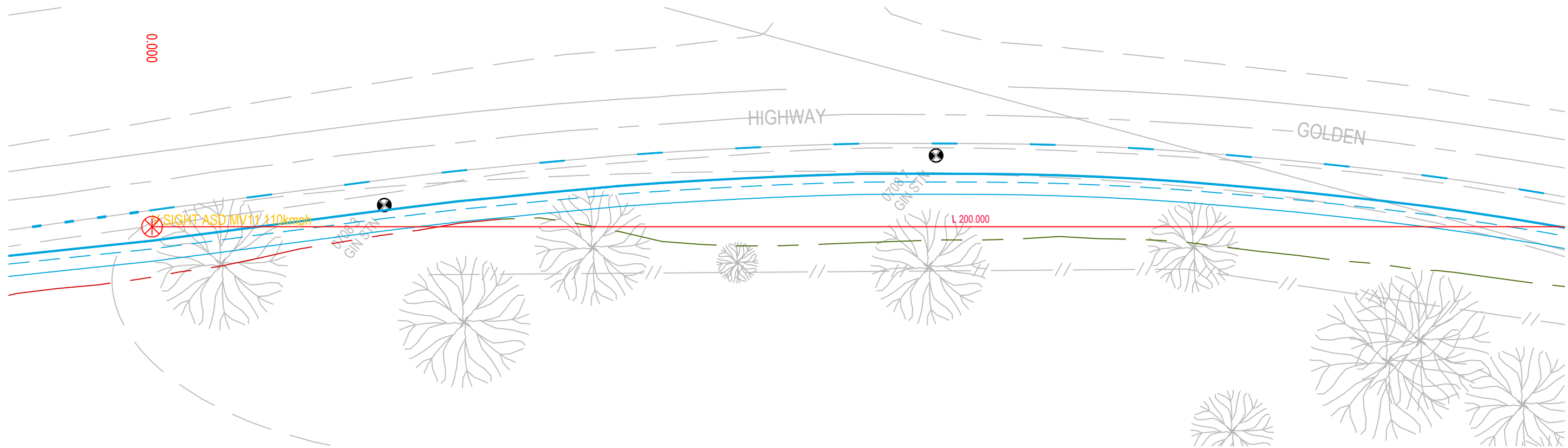
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# Ringwood Road and Golden Highway Intersection and Acceleration Lane

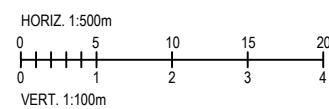
## Verification Summary - ASD

Location	Design Speed (km/hr)	Eye Height (m)	Object Height (m)	Reaction time (s)	Grade % (average)	ASD Required (m)	ASD Achieved (m)	ASD Control	Result (Pass/Fail)	Comments
Golden Highway WB Acceleration Lane End Merge Taper	110	1.1	0	N/A	N/A	375	200	MV11	FAIL	Merge Sight Distance value from AGRD Part 3 Table 9.3. Matching existing conditions, start of merge taper is at the crest of Golden Highway. Due to curvature of the existing road sight distance is obstructed by the existing terrain outside the road corridor.
Golden Highway WB Acceleration Lane Start	110	1.1	0	2	2	185.82	185.82	MV12	PASS	
Golden Highway WB Deceleration Lane Start	110	1.1	0	2	2	185.82	60.5	MV15	FAIL	54km/h ASD Achieved. Matching existing conditions, Start of deceleration lane taper is along a curved section of the Golden Highway and is uphill. Sight distance obstructed by existing road geometry.



LONGITUDINAL SECTION ALONG - V SIGHT ASD MV11 110kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100

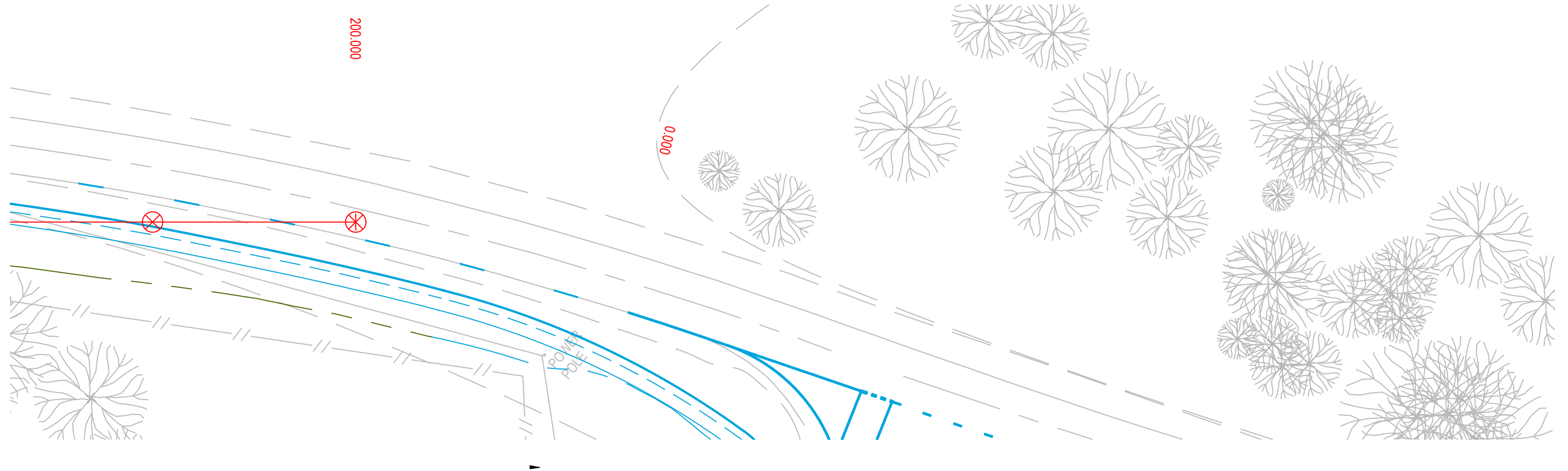
FOR INFORMATION ONLY



GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 APPROACH SIGHT DISTANCE  
 1 OF 5

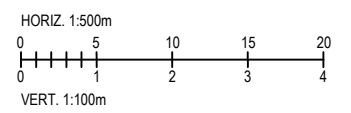






DATUM R.L. 419.0				
VERTICAL ALIGNMENT	-1.0%			
	200.0L			
HORIZONTAL ALIGNMENT				
EYE HEIGHT	1.259	1.255	1.187	1.1
EXISTING LEVELS	421.128	421.220	421.251	421.244
CHAINAGE	175.000	180.000	190.000	200.000

LONGITUDINAL SECTION ALONG - V SIGHT ASD MV11 110kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100

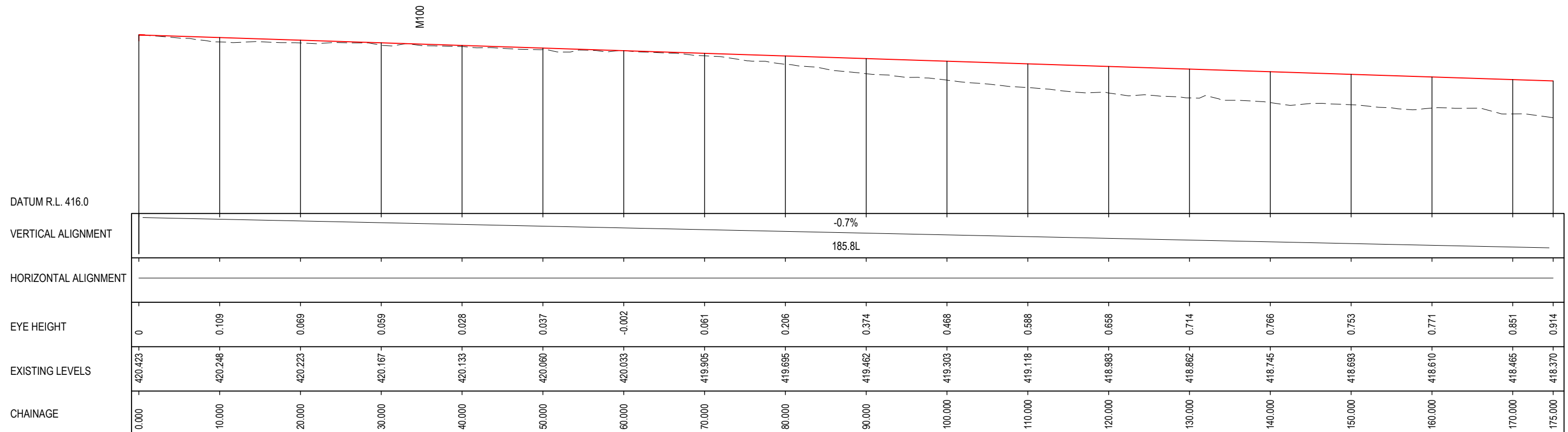
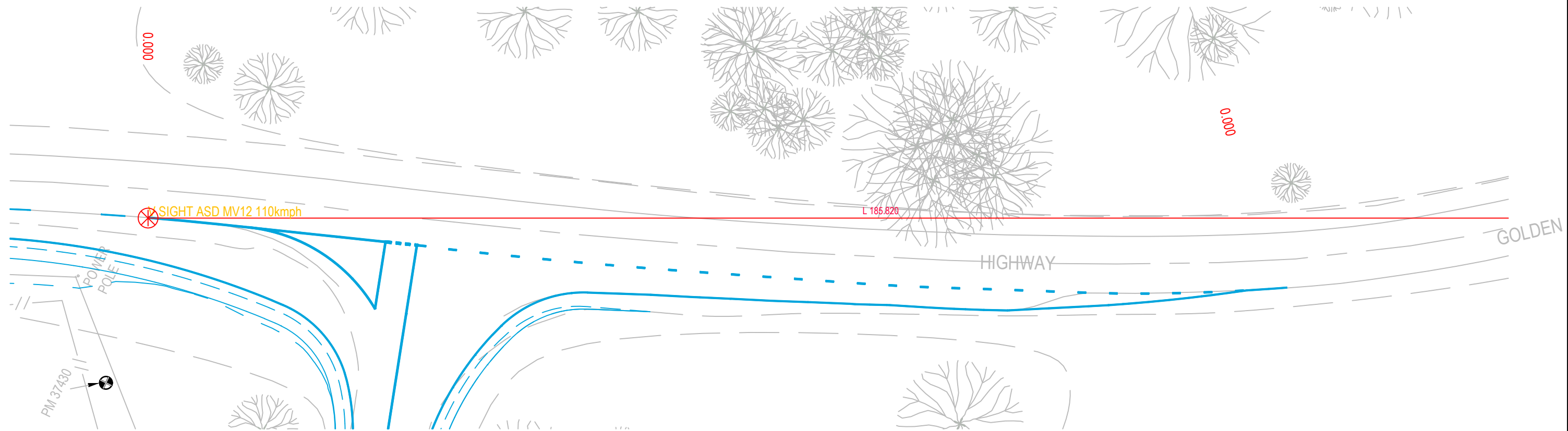


GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 APPROACH SIGHT DISTANCE  
 2 OF 5

FOR INFORMATION ONLY

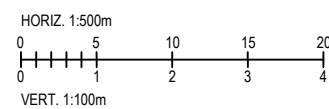






LONGITUDINAL SECTION ALONG - V SIGHT ASD MV12 110kmph  
 HORIZ. 1:500  
 VERTICAL 1:100

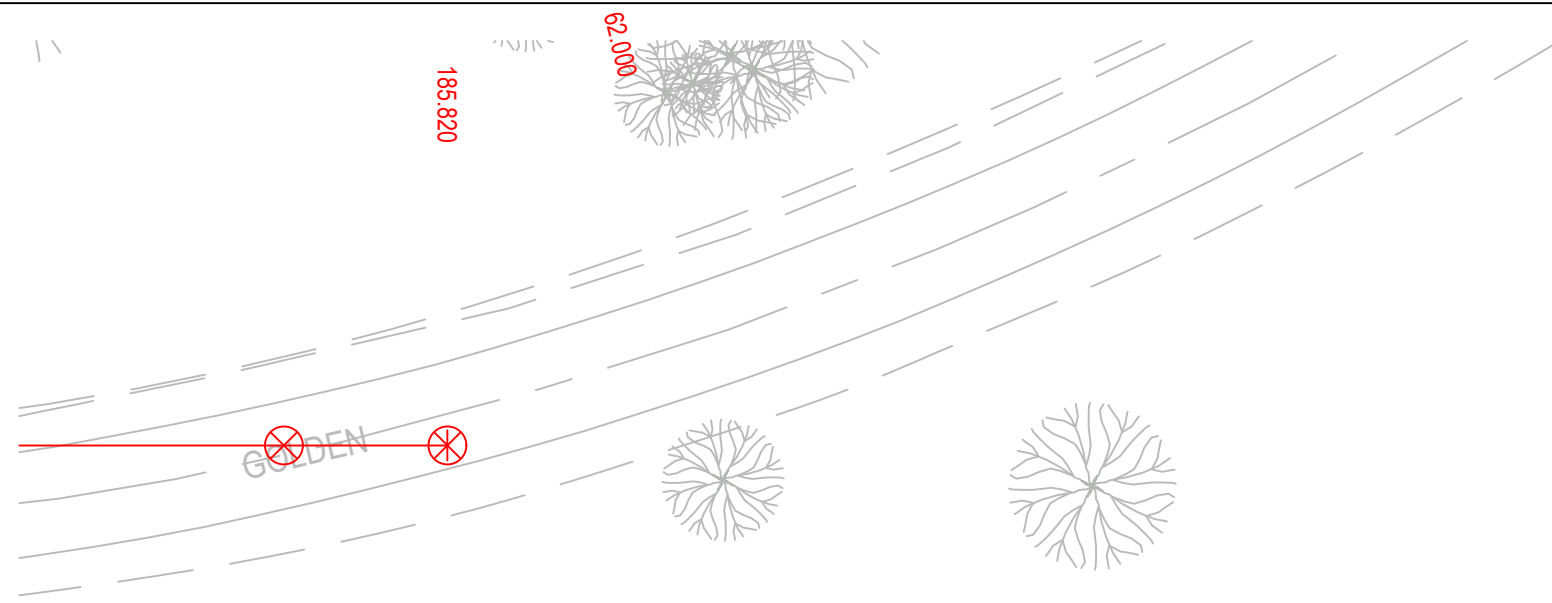
FOR INFORMATION ONLY



GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 APPROACH SIGHT DISTANCE  
 3 OF 5

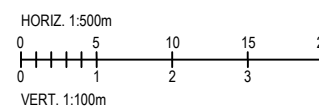






	M100		
DATUM R.L. 416.0			
VERTICAL ALIGNMENT	-0.7%		
	185.8L		
HORIZONTAL ALIGNMENT			
EYE HEIGHT	0.914	1.002	1.1
EXISTING LEVELS	418.370	418.248	418.113
CHAINAGE	175.000	180.000	185.820

LONGITUDINAL SECTION ALONG - V SIGHT ASD MV12 110kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100

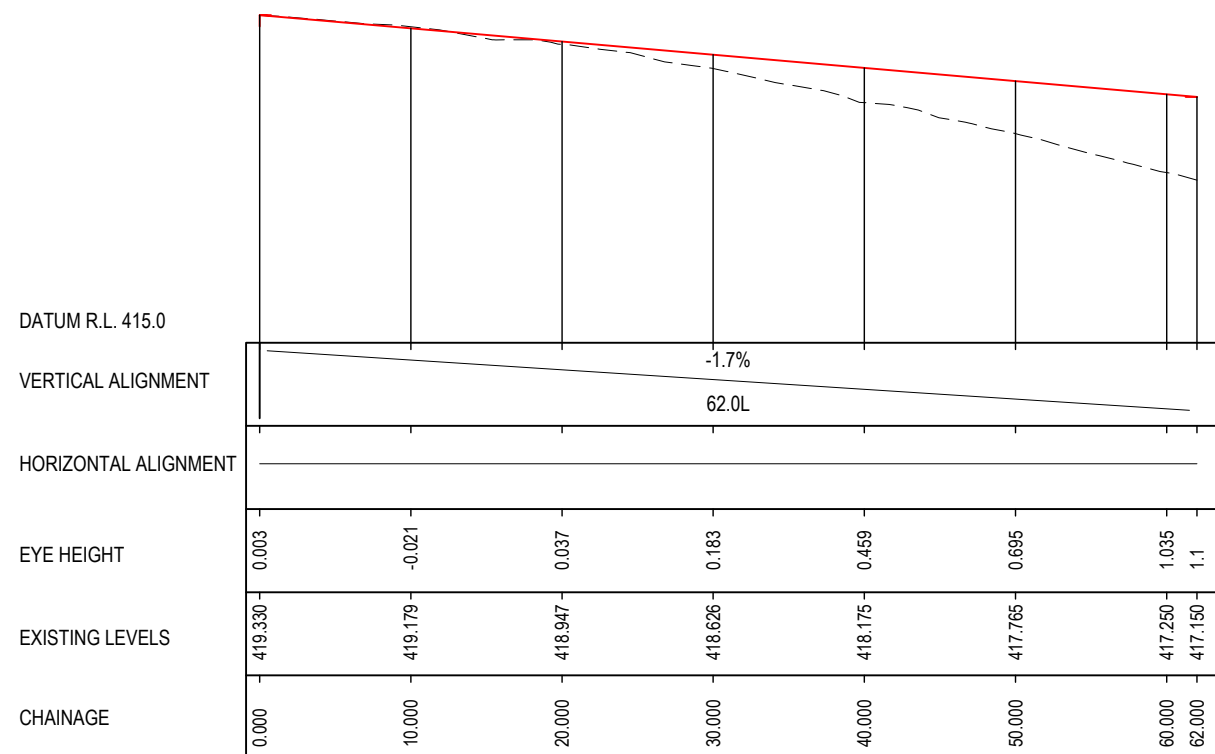
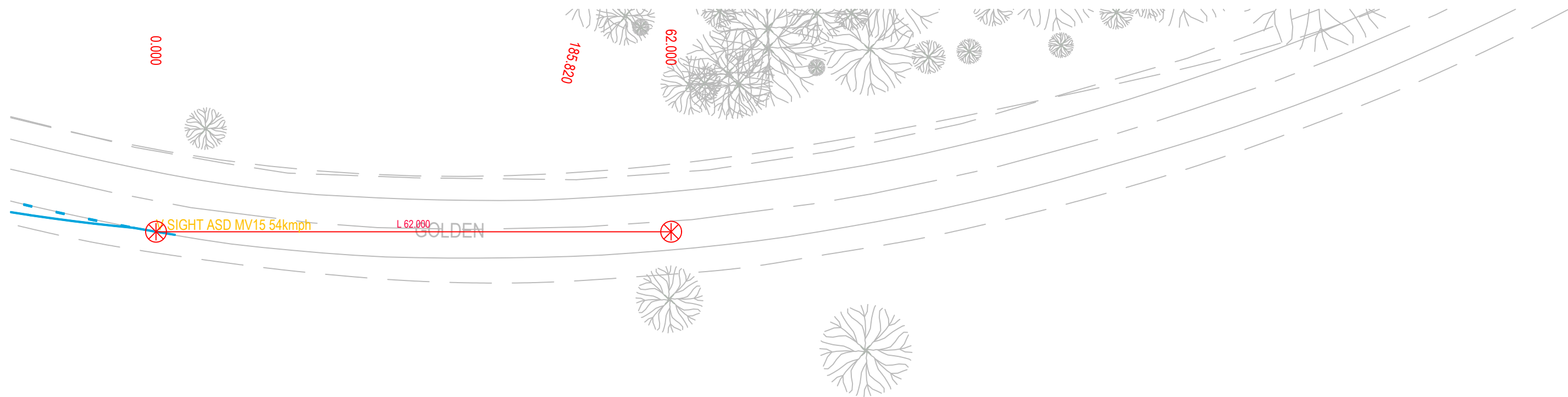


GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 APPROACH SIGHT DISTANCE  
 4 OF 5

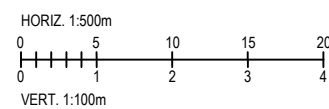
FOR INFORMATION ONLY







LONGITUDINAL SECTION ALONG - V SIGHT ASD MV15 54kmph  
 HORIZ. 1:500  
 VERT. 1:100



GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 APPROACH SIGHT DISTANCE  
 5 OF 5

FOR INFORMATION ONLY



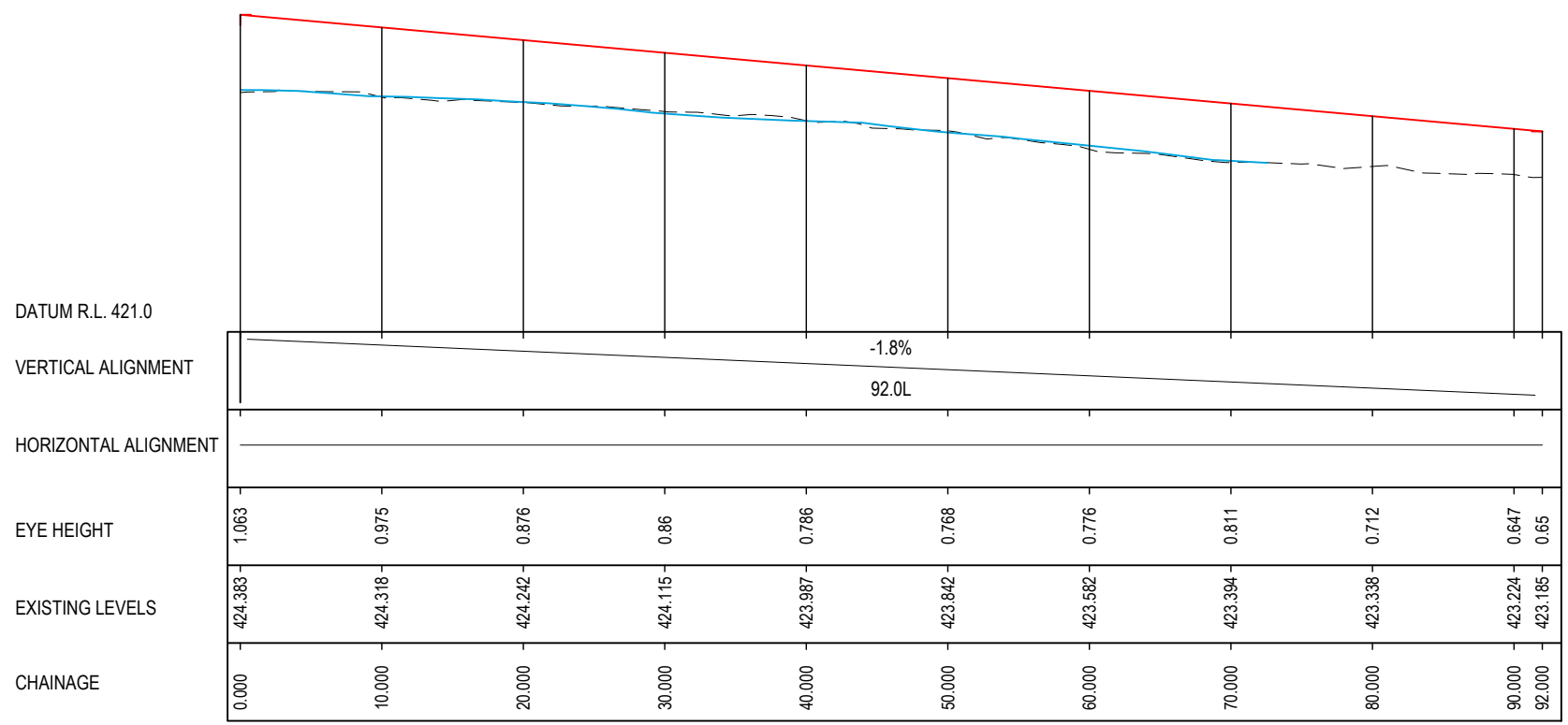
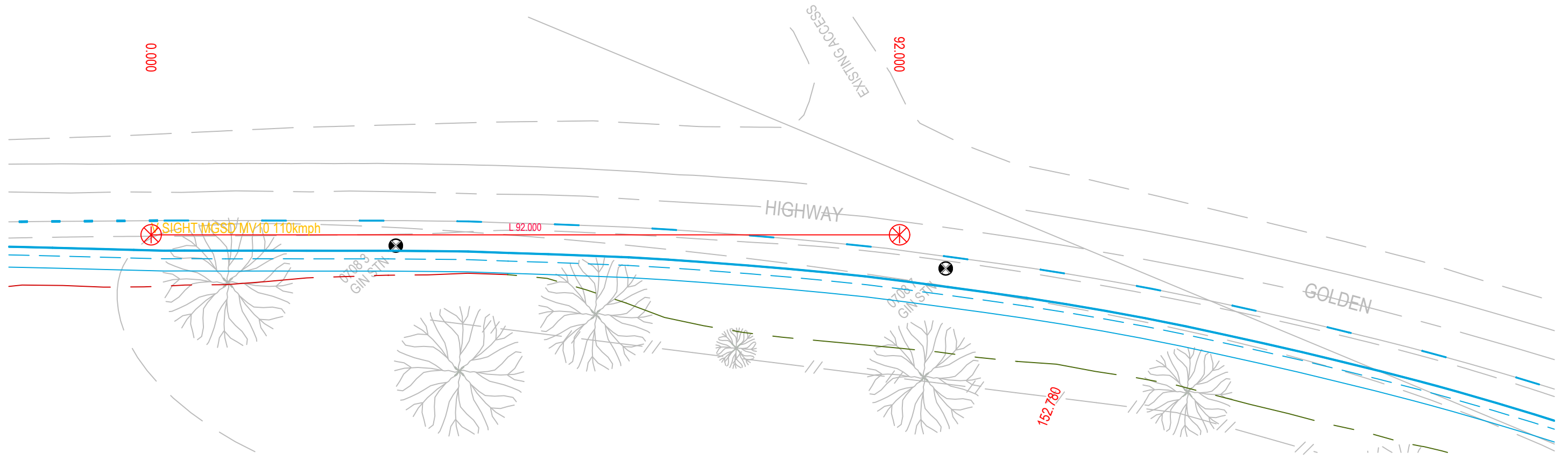


# Ringwood Road and Golden Highway Intersection Upgrade and Acceleration Lane

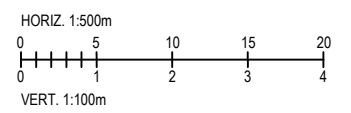
Verification Summary - MGSD

Location	Eye Height (m)	Object Height (m)	Critical Acceptance Gap (s)	MGSD Required (m)	MGSD Achieved (m)	MGSD Control	Result (Pass/Fail)	Comments
Golden Highway WB Acceleration Lane End	1.1	0.65	3	91.67	91.67	MV10	PASS	
Golden Highway EB and Ringwood Road SB Intersection - Right-In Turn	1.1	0.65	4	122.22	122.22	MV17	PASS	
Ringwood Road NB and Golden Highway EB and Intersection - Right-Out Turn	1.1	0.65	5	152.78	152.78	MV20	PASS	





LONGITUDINAL SECTION ALONG - V SIGHT MGSD MV10 110kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100

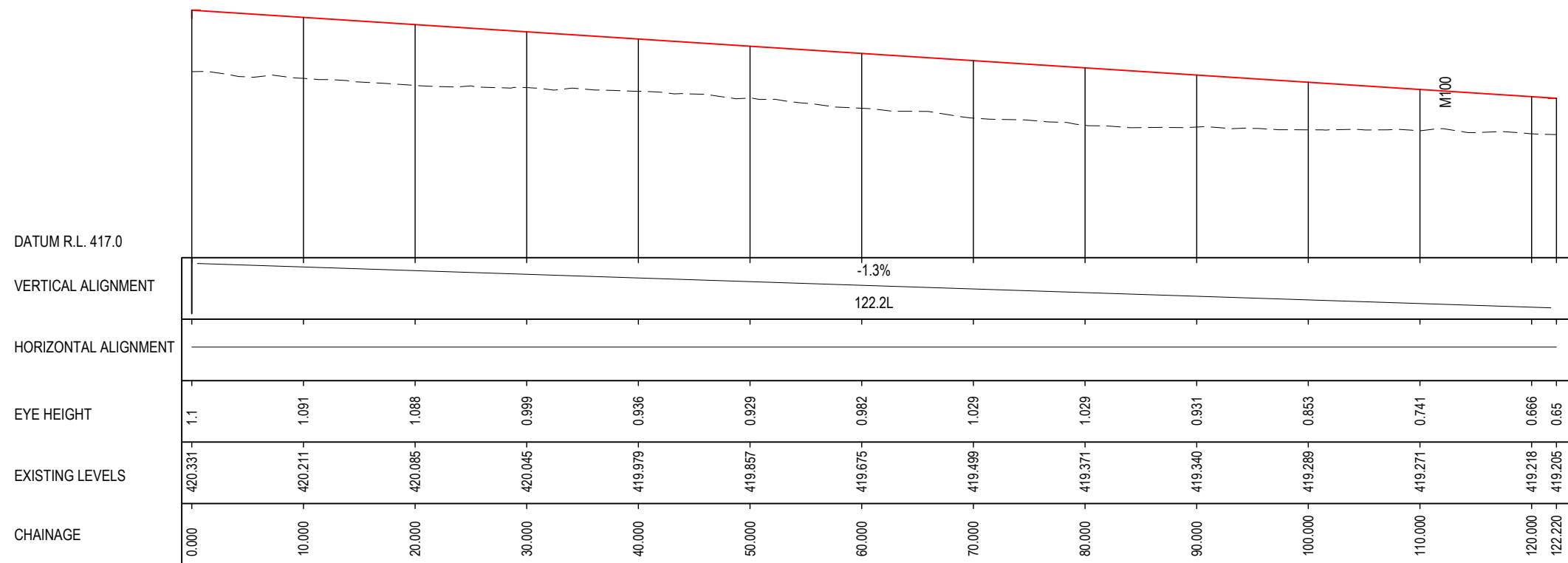
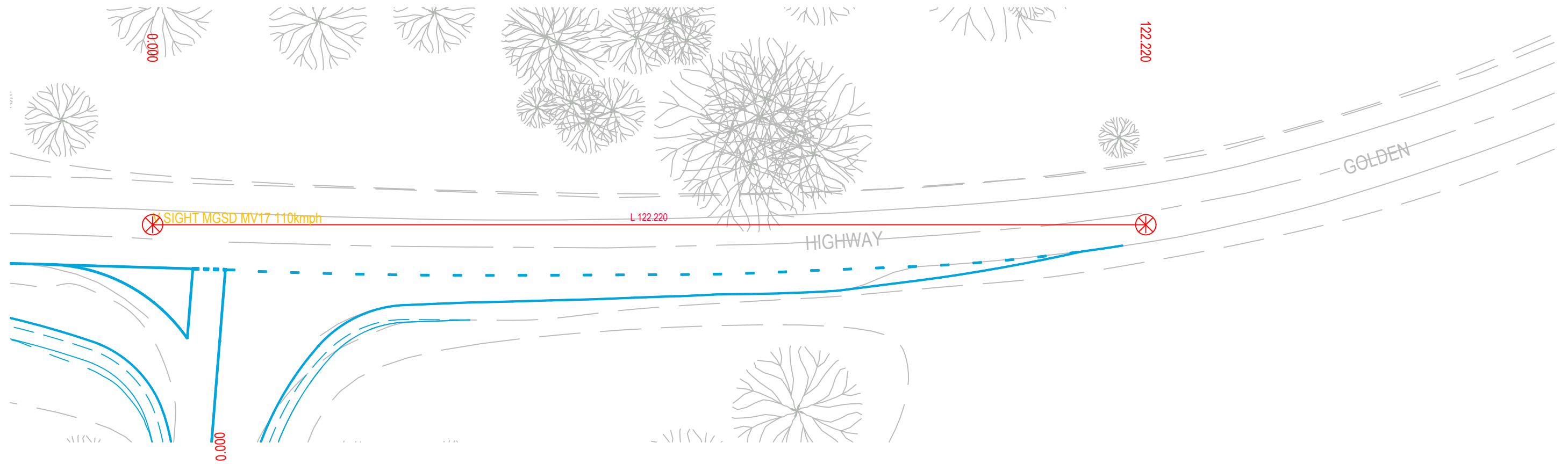


GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 MINIMUM GAP SIGHT DISTANCE  
 1 OF 3

FOR INFORMATION ONLY

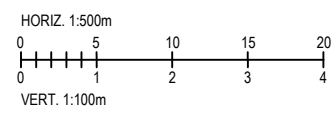






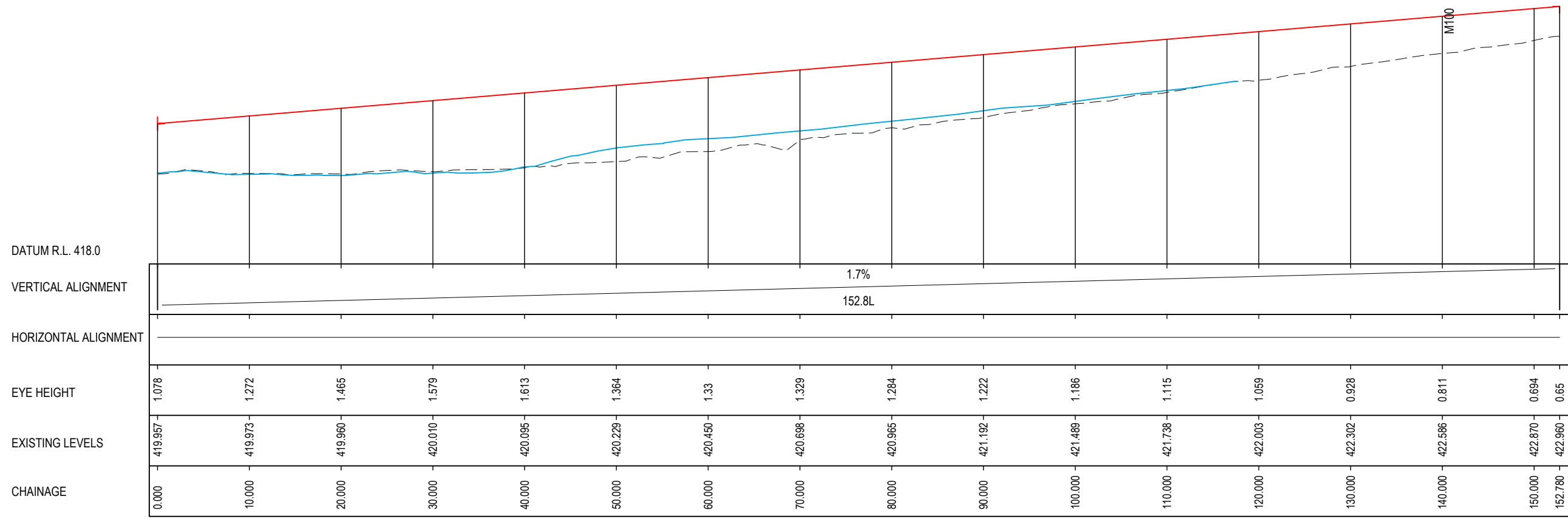
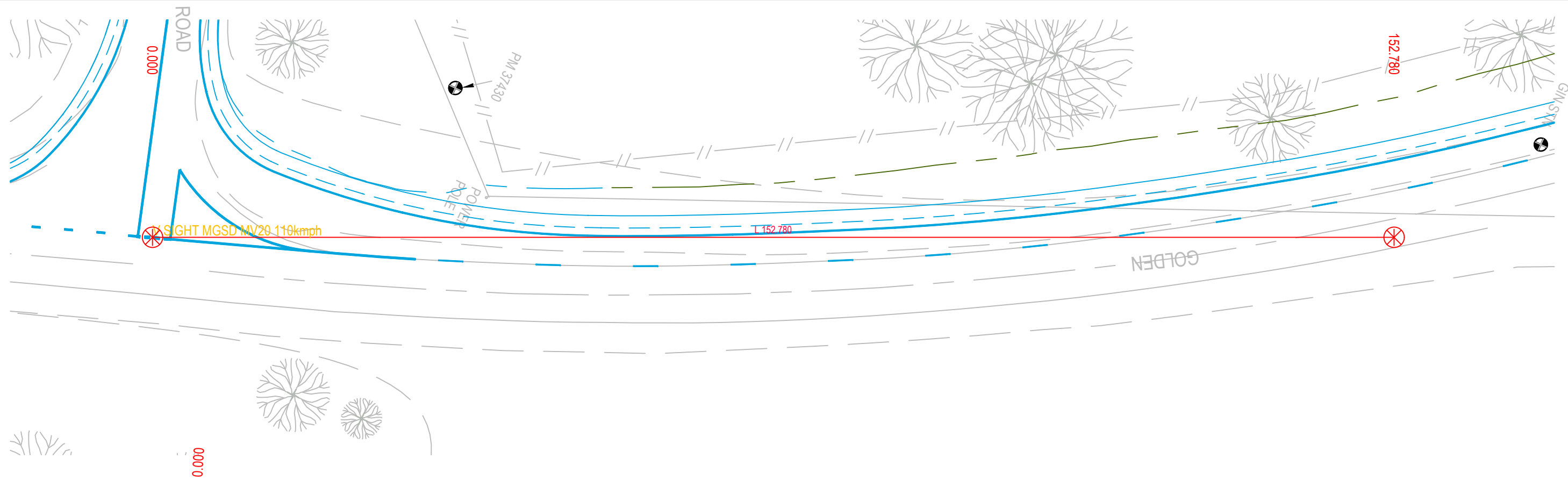
LONGITUDINAL SECTION ALONG - V SIGHT MGSD MV17 110kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100

FOR INFORMATION ONLY



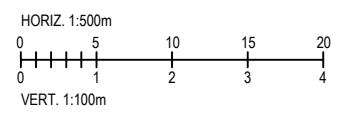
GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 MINIMUM GAP SIGHT DISTANCE  
 2 OF 3





LONGITUDINAL SECTION ALONG - V SIGHT MGSD MV20 110kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100

FOR INFORMATION ONLY



GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 MINIMUM GAP SIGHT DISTANCE  
 3 OF 3

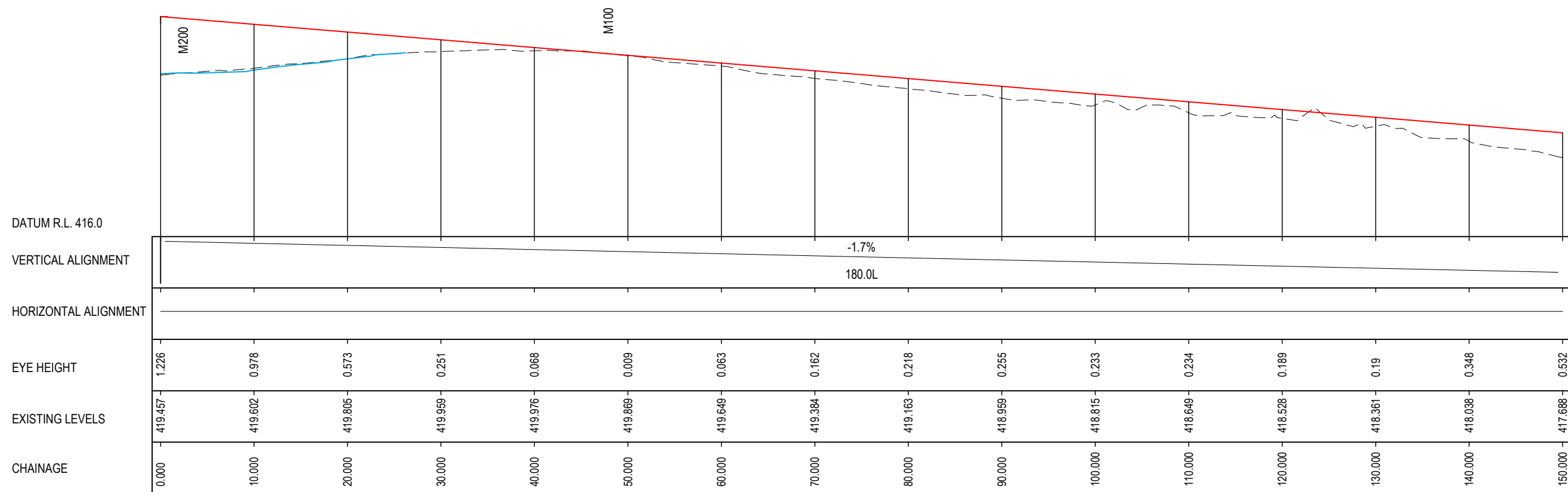
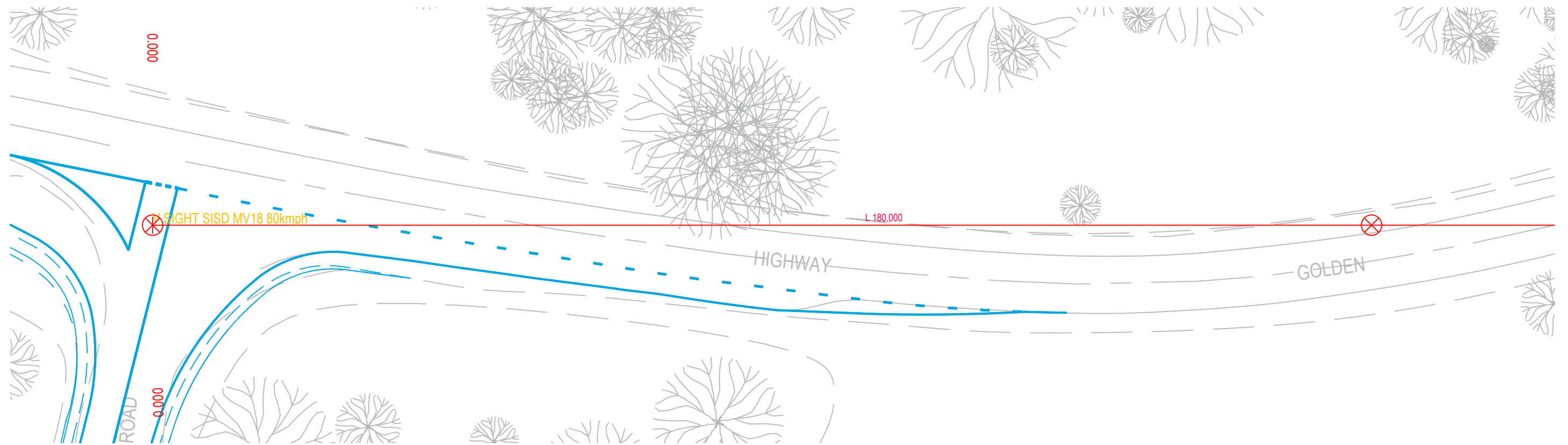




# Ringwood Road and Golden Highway Intersection and Acceleration Lane

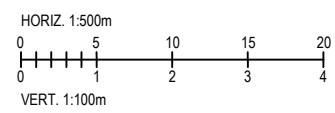
Verification Summary - SISD

Location	Design Speed (km/hr)	Eye Height (m)	Object Height (m)	Reaction time (s)	Observation Time (s)	Grade % (average)	SISD Required (m)	SISD Achieved (m)	SISD Control	Result (Pass/Fail)	Comments
Golden Highway WB and Ringwood Road NB Intersection	110	1.25	1.1	2	3	2	277.48	180	MV18	FAIL	80km/h SISD achieved. Matching existing conditions, existing intersection is following a curved section of the Golden Highway and is uphill. Sight distance obstructed by existing road geometry.
Golden Highway EB and Ringwood Road NB Intersection	110	1.25	1.1	2	3	-2	292.07	292.07	MV19	PASS	May be obstructed by existing trees.



LONGITUDINAL SECTION ALONG - V SIGHT SISD MV18 80kmph  
 HORIZ. 1:500  
 VERTICAL 1:100

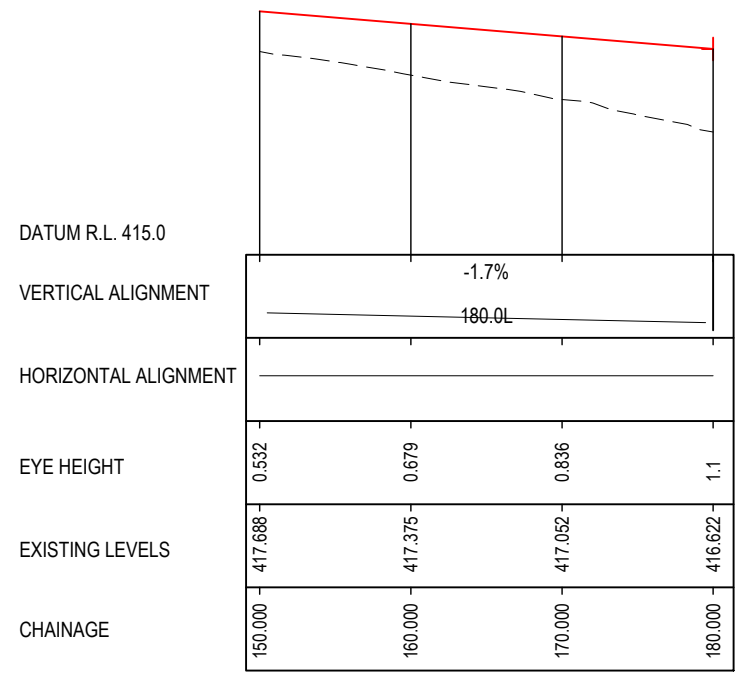
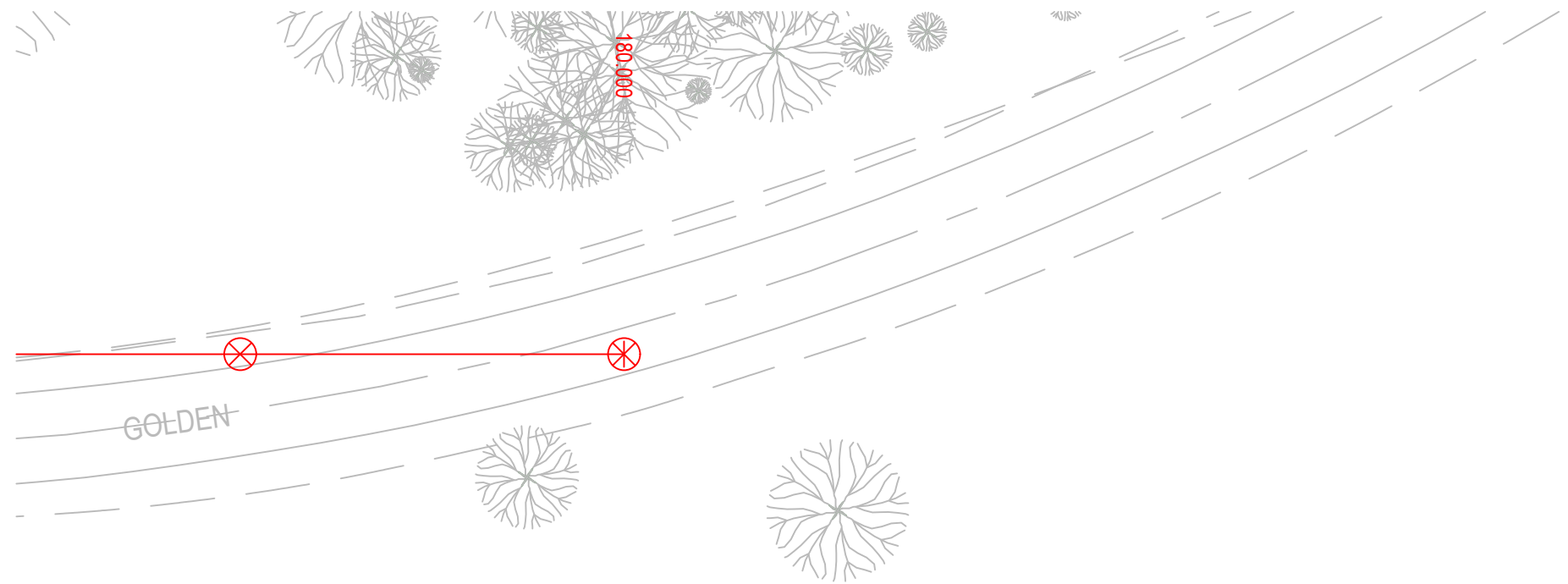
FOR INFORMATION ONLY



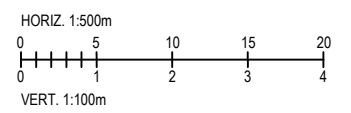
GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 SAFE INTERSECTION SIGHT DISTANCE  
 1 OF 4







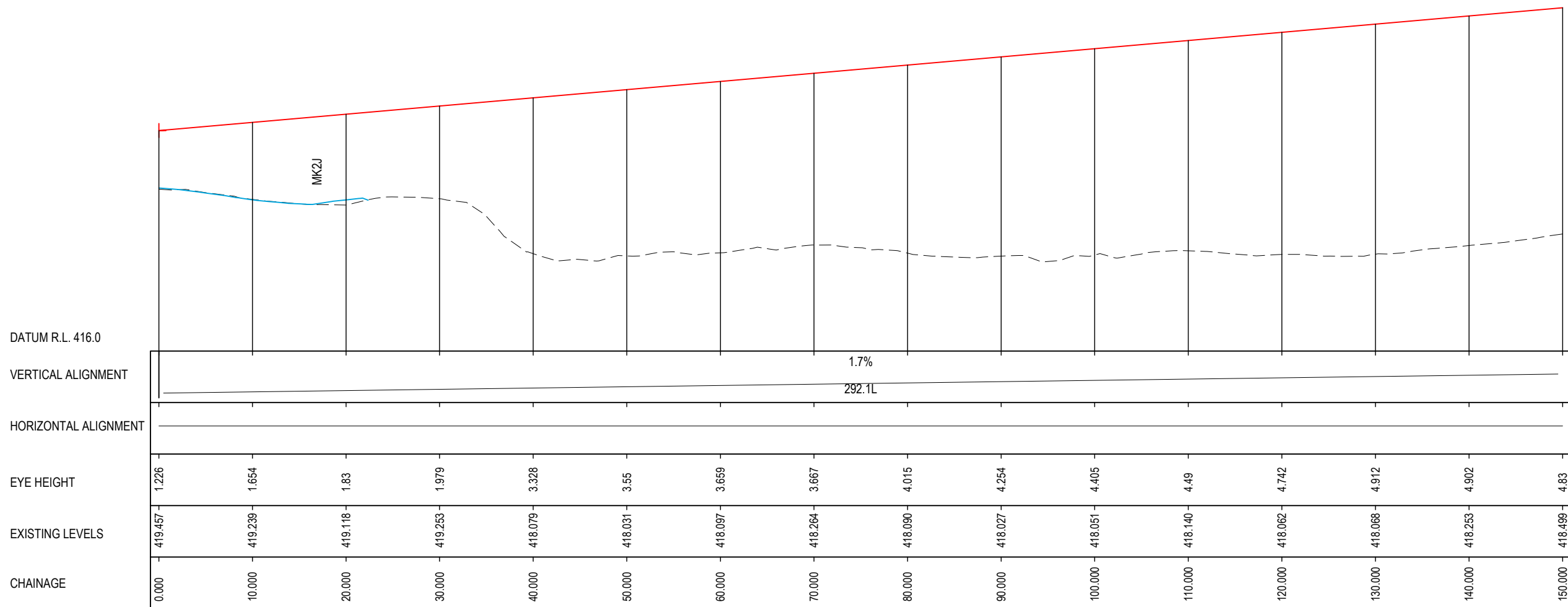
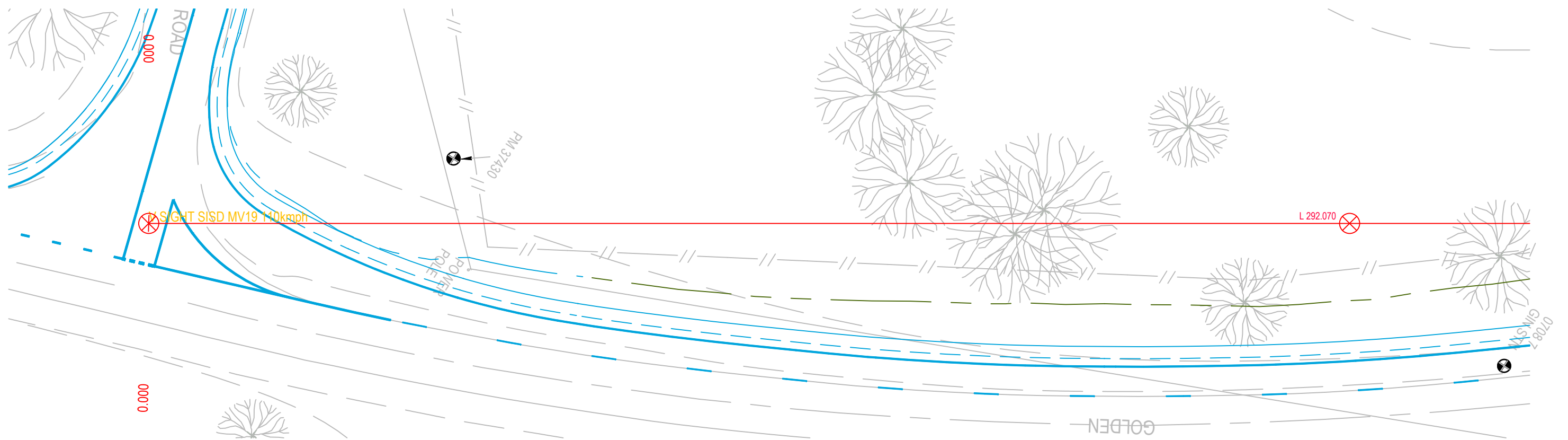
LONGITUDINAL SECTION ALONG - V SIGHT SISD MV18 80kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100



GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 SAFE INTERSECTION SIGHT DISTANCE  
 2 OF 4

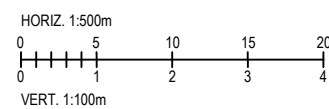
FOR INFORMATION ONLY





LONGITUDINAL SECTION ALONG - V SIGHT SISD MV19 110kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100

FOR INFORMATION ONLY



GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 SAFE INTERSECTION SIGHT DISTANCE  
 3 OF 4





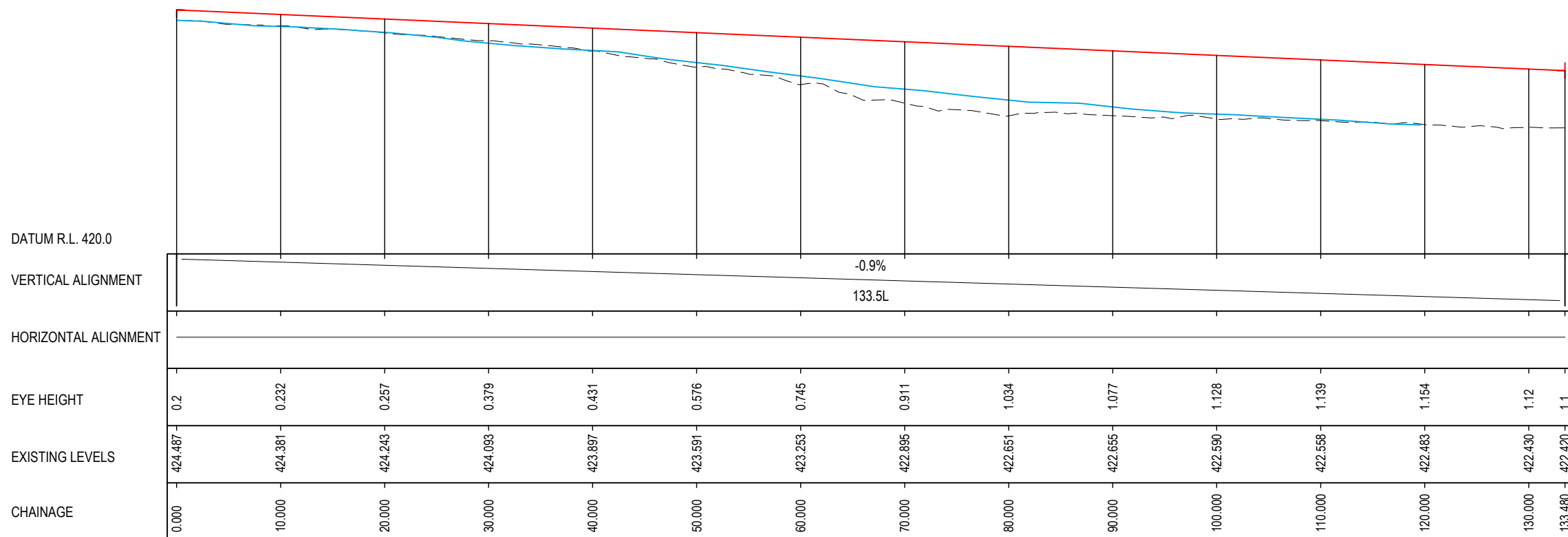
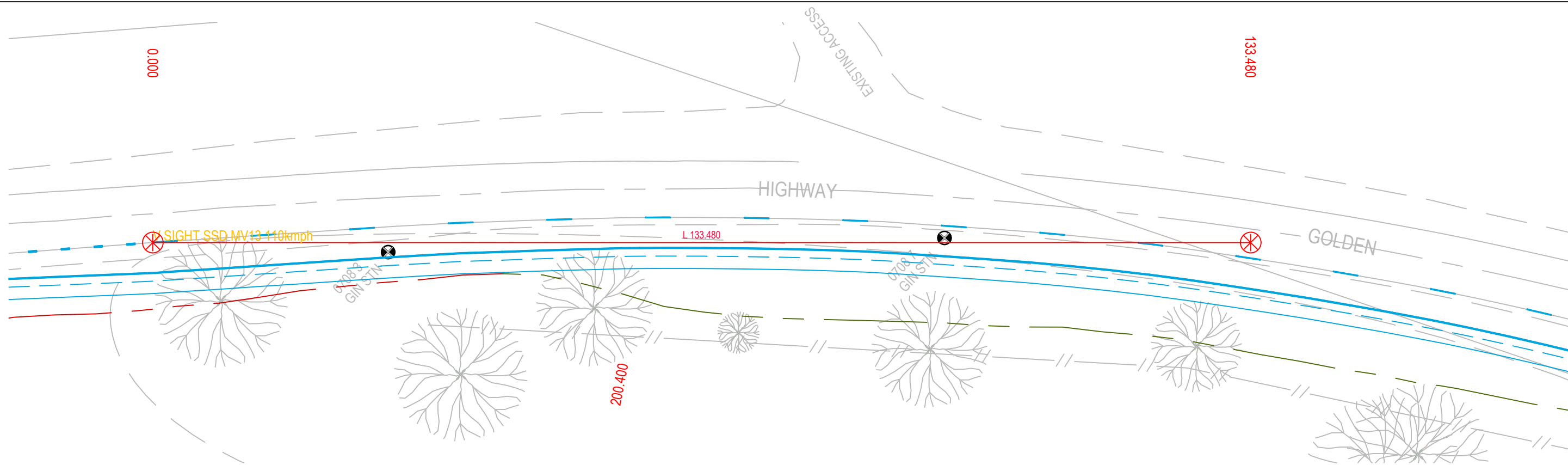


# Ringwood Road and Golden Highway Intersection Upgrade and Acceleration Lane

Verification Summary - SSD

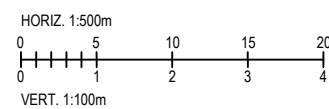
Location	Eye Height (m)	Object Height (m)	Design Speed (km/hr)	Reaction time (s)	Grade % (average)	SSD Required (m)	SSD Achieved (m)	SSD Control	Result (Pass/Fail)	Comments
Golden Highway WB Acceleration Lane Merge Taper / End	1.1	0.2	90	2	2	133.48	133.48	MV13	PASS	May be obstructed by existing trees
Golden Highway WB and Ringwood Road Intersection	1.1	0.2	110	2	1	189.17	135	MV16	FAIL	89km/h SSD achieved. Matching existing conditions, existing intersection is following a curved section of the Golden Highway and is uphill. Sight distance obstructed by existing road geometry.
Golden Highway EB and Ringwood Road Intersection	1.1	0.2	110	2	-2	200.4	200.4	MV14	PASS	May be obstructed by existing trees





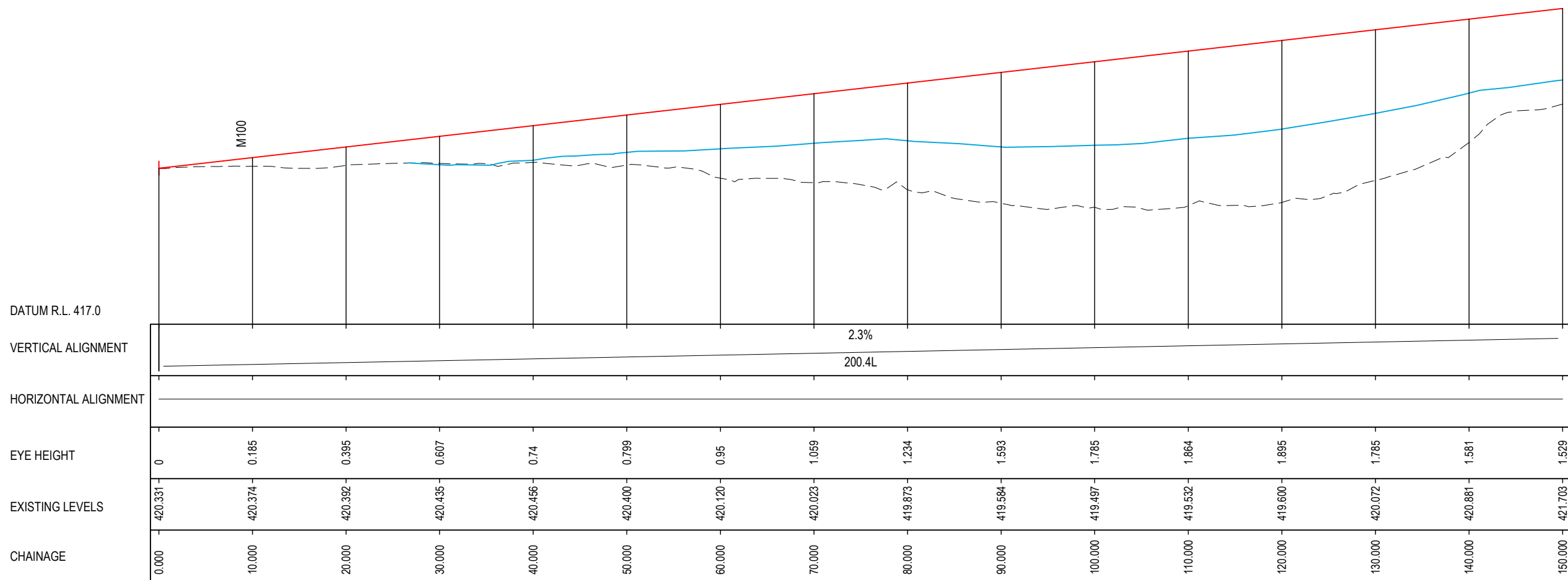
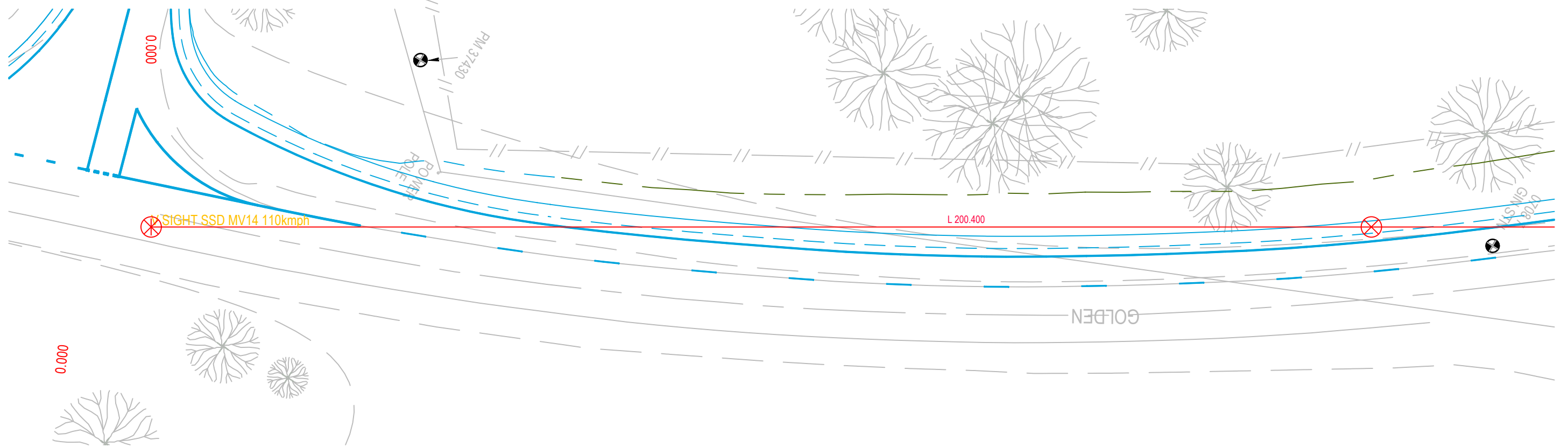
LONGITUDINAL SECTION ALONG - V SIGHT SSD MV13 110kmph  
 HORIZ. 1:500  
 VERTICAL 1:100

FOR INFORMATION ONLY



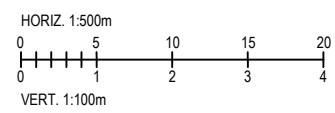
GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 STOPPING SIGHT DISTANCE  
 1 OF 4





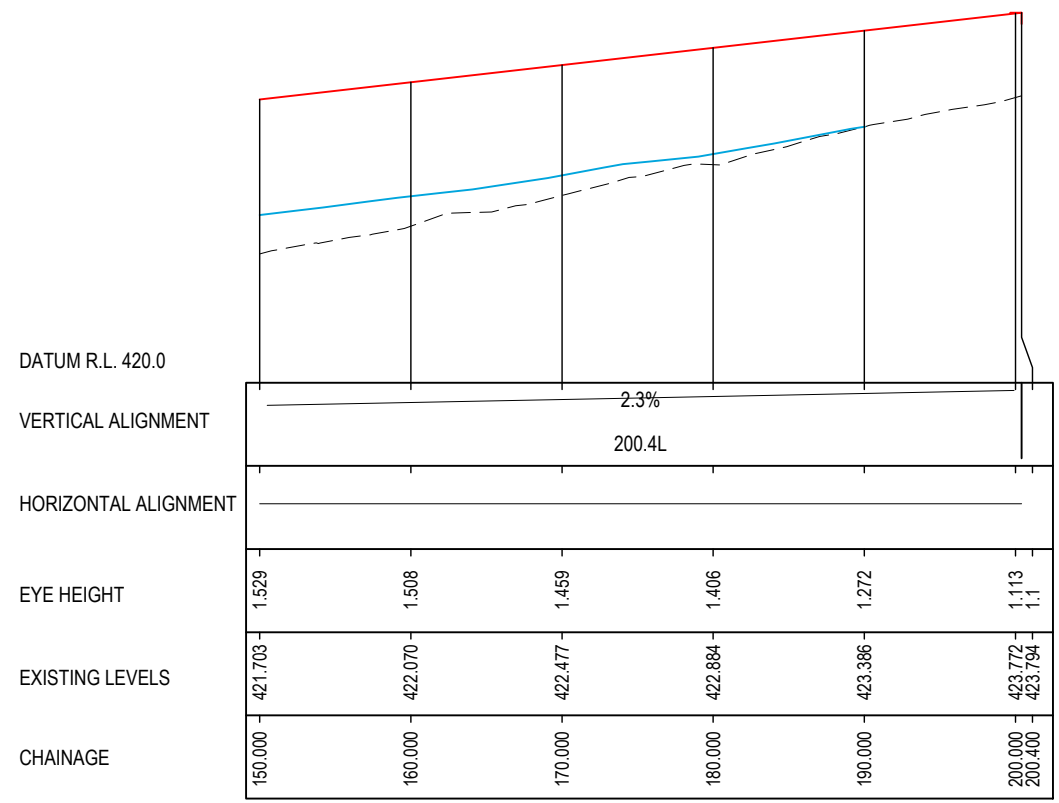
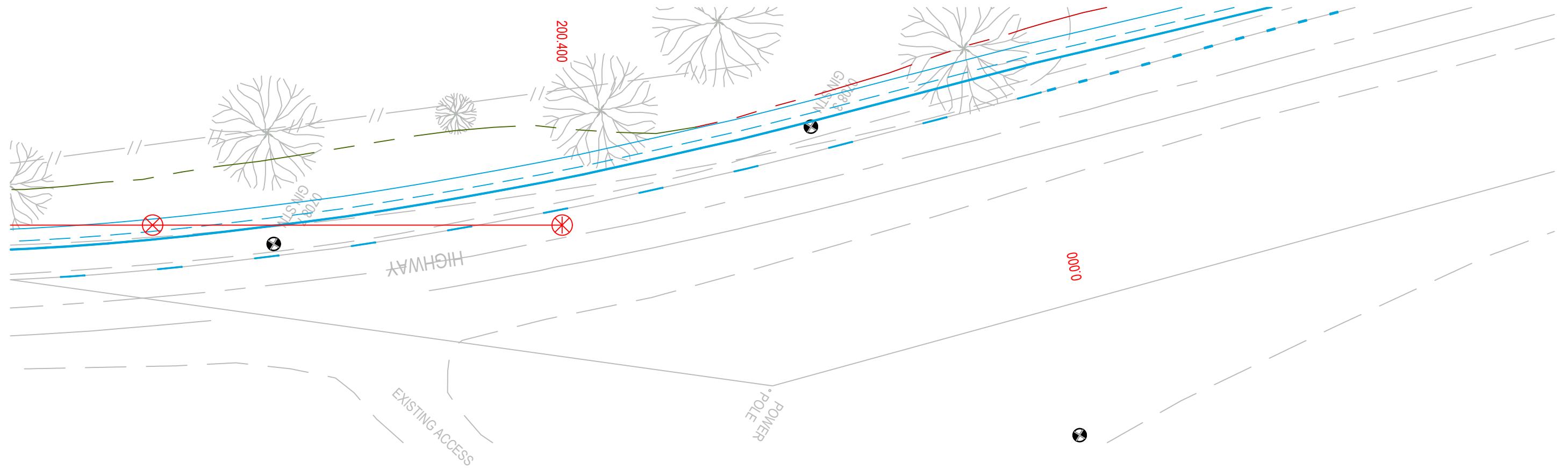
LONGITUDINAL SECTION ALONG - V SIGHT SSD MV14 110kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100

FOR INFORMATION ONLY

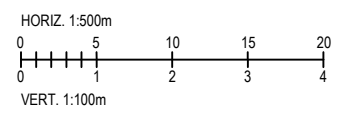


GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 STOPPING SIGHT DISTANCE  
 2 OF 4





LONGITUDINAL SECTION ALONG - V SIGHT SSD MV14 110kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100

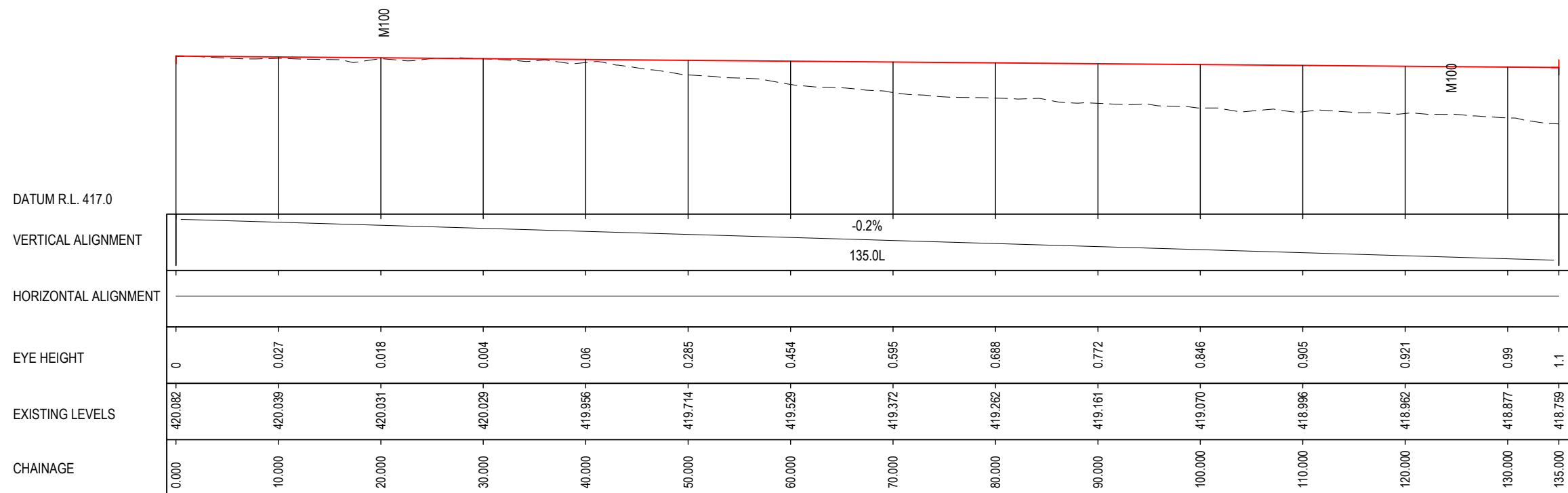
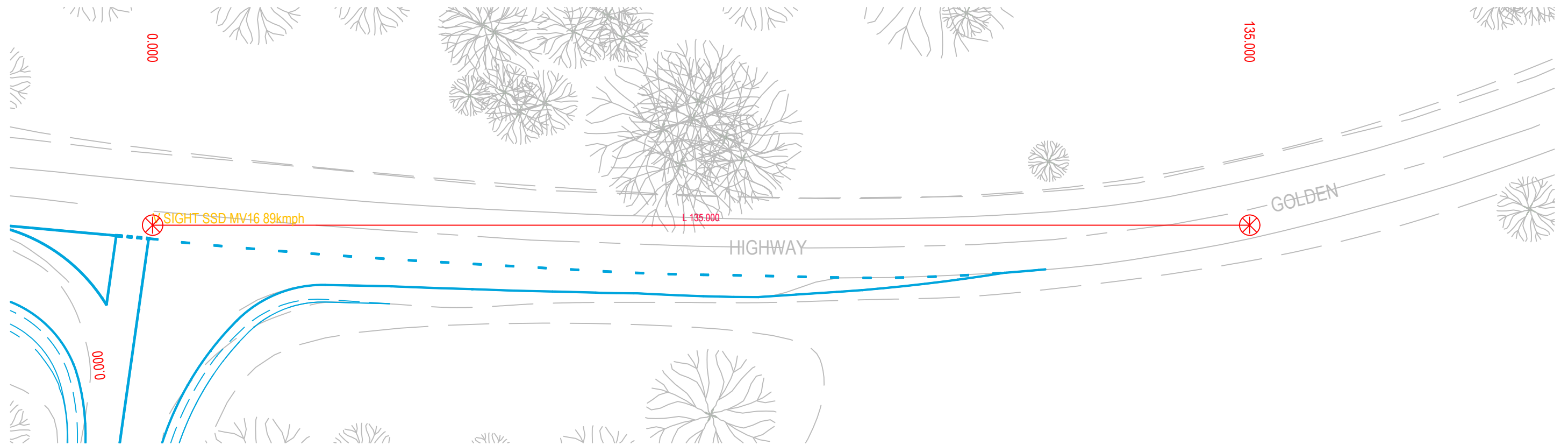


GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 STOPPING SIGHT DISTANCE  
 3 OF 4

FOR INFORMATION ONLY

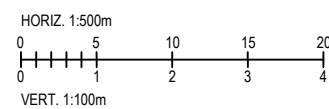






LONGITUDINAL SECTION ALONG - V SIGHT SSD MV16 89kmph  
 HORIZONTAL 1:500  
 VERTICAL 1:100

FOR INFORMATION ONLY



GOLBURN RIVER SOLAR FARM  
 RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION  
 SIGHT DISTANCE CHECKS  
 STOPPING SIGHT DISTANCE  
 4 OF 4



---

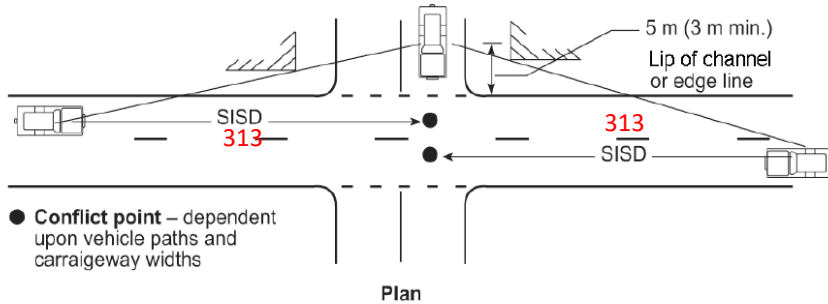
## Appendix D Wollar Road / Ringwood Road intersection SISD checks

### Safe Intersection Sight Distance (SISD) for Cars

Source: Austroads Guide to Road Design  
 Part: Part 4A: Unsignalised and Signalised Intersections  
 Edition: February 2021  
 Section: 3.2.2 - Equation 2

### Summary of Outputs

Figure 3.2: Safe intersection sight distance (SISD)



Parameter Inputs			
Coefficient	Value	Unit	Reference / Note
Driver Eye	1.1	m	Part 3: Section 3.2.2
Target Eye	1.1	m	Part 3: Section 3.2.2
Rt	2.5	s	Part 3: Table 5.2
V	110	km/h	Design speed of road
d	0.36		Part 3: Table 5.3
a	-3	%	Longitudinal grade

!Top of car

Calculations			
Coefficient	Value	Unit	Reference / Note
Dt	5.5	s	Part 4A: Equation 2
SISD	313	m	Part 4A: Equation 2

!Plus 3 seconds to Rt

!Rounded up to integer



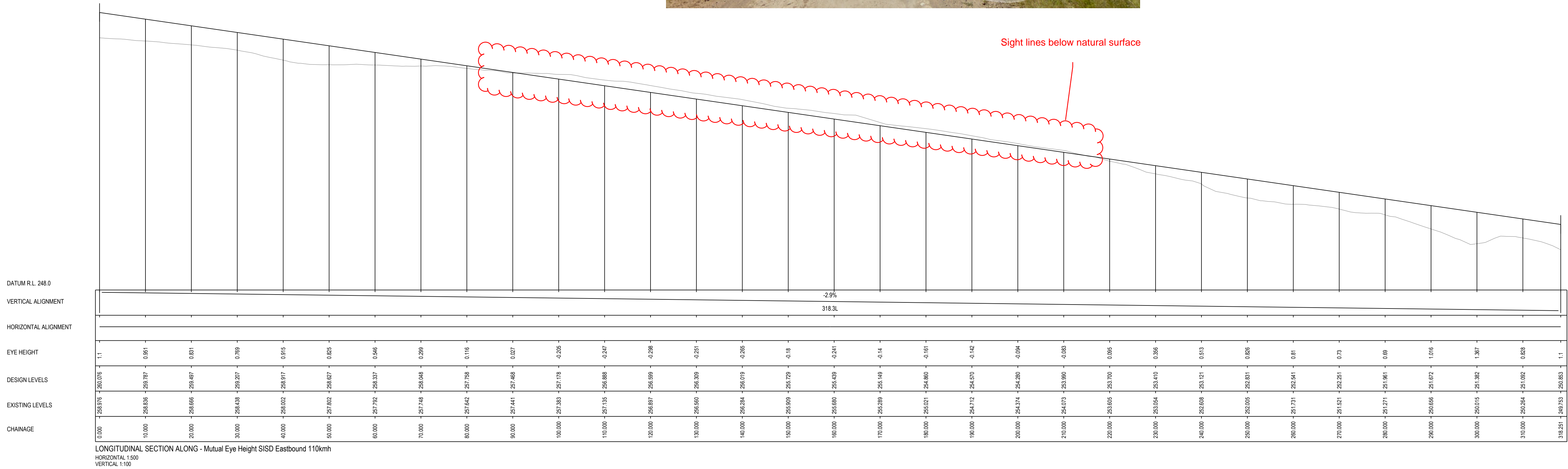


Sight lines obstructed by existing vegetation. Refer red-arrow in Google Streetview screenshot

Sight lines obstructed by existing trees. Refer magenta-arrow in Google Streetview screenshot



Sight lines below natural surface

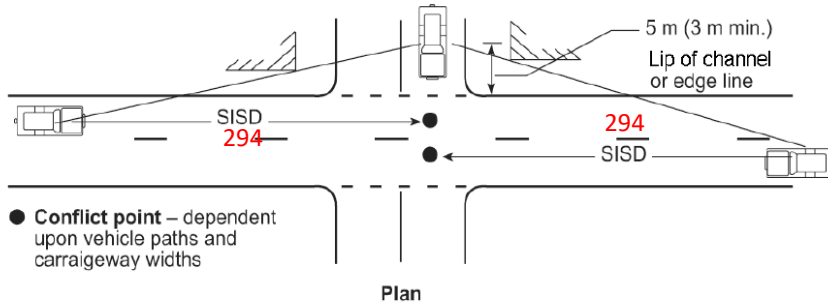


### Safe Intersection Sight Distance (SISD) for Cars

Source: Austroads Guide to Road Design  
 Part: Part 4A: Unsignalised and Signalised Intersections  
 Edition: February 2021  
 Section: 3.2.2 - Equation 2

### Summary of Outputs

Figure 3.2: Safe intersection sight distance (SISD)



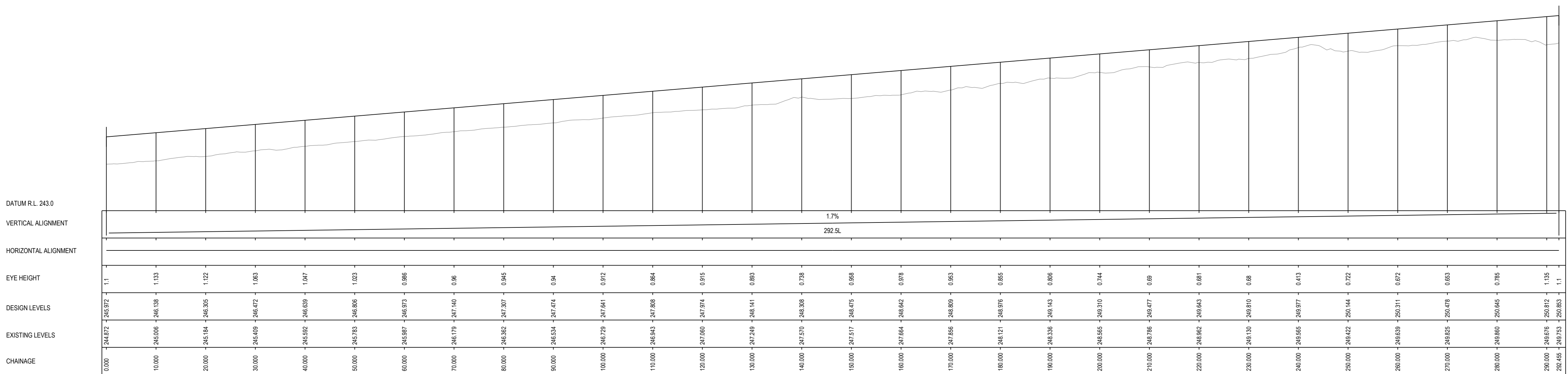
Parameter Inputs			
Coefficient	Value	Unit	Reference / Note
Driver Eye	1.1	m	Part 3: Section 3.2.2
Target Eye	1.1	m	Part 3: Section 3.2.2
Rt	2.5	s	Part 3: Table 5.2
V	110	km/h	Design speed of road
d	0.36		Part 3: Table 5.3
a	2	%	Longitudinal grade

!Top of car

Calculations			
Coefficient	Value	Unit	Reference / Note
Dt	5.5	s	Part 4A: Equation 2
SISD	294	m	Part 4A: Equation 2

!Plus 3 seconds to Rt

!Rounded up to integer



LONGITUDINAL SECTION ALONG - Mutual Eye Height SISD Westbound 110km  
 HORIZONTAL 1:500  
 VERTICAL 1:100



## Appendix E Crash history

Severity of crash	Year	Location	Town	RUM code	
<b>Fatal</b>	2018	Cullingral Road 2.2km south of Golden Highway	Merriwa	87	
	2021	Macartney Street at Old Scone Road	Merriwa	85	
	2021	Golden Highway 200m west of Wyoming Road	Cassilis	20	
	2022	Flaggs Road 100m north of house number 1246	Merriwa	85	
<b>Serious Injury</b>	2018	Wollar Road 100m west of Ringwood Road	Wollar	88	
	2018	Flaggs Road 3km south of Merriwa	Merriwa	80	
	2018	Gooch Street 300m south of Glebe Street	Merriwa	75	
	2018	Golden Highway 2km north of Flaggs Road	Gungal	20	
	2019	Bylong Valley Way 8km east of Wollar Road	Murrumbo	85	
	2019	Bylong Valley Way 8m north of Upper Bylong Road	Murrumbo	80	
	2019	Bylong Valley Way 10.5km east of Wollar Road	Murrumbo	84	
	2019	Bylong Valley Way 3.8km east of Wollar Road	Bylong	20	
	2019	Golden Highway 160m west of Bow Street	Merriwa	81	
	2020	Golden Highway 5km east of Westwood Road	Gungal	30	
	2020	Golden Highway 1km east of Redwell Road	Merriwa	73	
	2021	Golden Highway at Quigley Street	Merriwa	81	
	2021	Golden Highway 5km west of Westwood Road	Merriwa	20	
	2021	Cullingral Road 1km south of Golden Highway	Merriwa	71	
	2022	Golden Highway at house number 5993	Merriwa	80	
	2022	Golden Highway 10km west of Ringwood Road	Merriwa	71	
	2022	Golden Highway at Brisbane Street	Merriwa	71	
	2022	Golden Highway 1km west of Ringwood Road	Merriwa	87	
	2022	Golden Highway 2km south of Westwood Road	Gungal	85	
	2022	Golden Highway 1km east of Wyoming Road	Cassilis	70	
	<b>Moderate Injury</b>	2018	Bylong Valley Way 3km east of Wollar Road	Bylong	80
		2018	Golden Highway 10km east of Merriwa	Merriwa	81
2018		Golden Highway 10km east of Merriwa	Merriwa	84	
2018		Hall Road 500m west of Flaggs Road	Merriwa	90	
2018		Golden Highway at house number 7675	Merriwa	71	
2018		Golden Highway 5km west of Glenroy Road	Merriwa	71	
2019		Golden Highway 2km west of Dunblane Road	Merriwa	81	
2019		Wollara Road 22.7km south of Golden Highway	Merriwa	80	
2019		Cullingral Road 3km north of Tunbridge Road	Merriwa	88	
2019		Golden Highway at Ulan Road	Cassilis	13	
2020		Flight Springs Road at house number 494	Merriwa	71	
2020		Golden Highway 200m east of Comialla Road	Cassilis	72	
2020		Golden Highway at Ulan Road	Cassilis	13	
2020		Golden Highway 1.3km west of Cornialla Road	Cassilis	88	
2021		Golden Highway 5km east of Merriwa	Merriwa	73	
2021		Golden Highway 5.5km east of Prices Lane	Merriwa	42	
2021		Golden Highway 1.3km east of Pembroke Road	Cassilis	30	
2022		Ringwood Road 1km west of Flight Springs Road	Merriwa	70	
2022		Bunnan Road 20km east of Coulsen Creek Road	Bunnan	67	
2022		Golden Highway 400m west of Forest Reserve Road	Merriwa	40	
2022		Golden Highway 200m east of Idaville Road	Merriwa	74	

<b>Minor / Other Injury</b>	2020	Bylong Valley Way 10km east of Wollar Road	Murrumbo	67
	2020	Golden Highway 30km west of Merriwa	Cassilis	67
	2020	Vennacher Street at Hayes Street	Merriwa	71
<b>Non- casualty (towaway)</b>	2018	Bylong Valley Way 400m east of Wollar Road	Bylong	71
	2018	Bylong Valley Way 4.9km east of Wollar Road	Bylong	84
	2018	Scone Road 2km east of Coulsons Creek Road	Merriwa	67
	2018	Golden Highway 1km west of Pembroke Road	Cassilis	71
	2018	Golden Highway 280m east of Ulan Road	Cassilis	87
	2019	Bylong Valley Way 20km north of Lee Creek Road	Bylong	84
	2019	Bunnan Road 18km north of Coulsen Creek Road	Bunnan	67
	2019	Golden Highway 260m east of Ulan Road	Cassilis	85
	2020	Golden Highway 300m north of Flaggs Road	Gunggal	73
	2020	Golden Highway 300m east of Lowlers Lane	Merriwa	71
	2020	Golden Highway 1km west of Cullingral Road	Merriwa	74
	2021	Ulan Road 700m south of Golden Highway	Cassilis	85
	2021	Golden Highway 4km west of Cassilis Road	Cassilis	81
	2021	Golden Highway at house number 8661	Cassilis	88
	2021	Golden Highway 2km north of Westwood Road	Gunggal	67
	2021	Golden Highway 4.3km north of Flaggs Road	Gunggal	85
	2021	Golden Highway 2.8km west of Redwell Road	Merriwa	86
	2022	Ringwood Road 5km west of Golden Highway	Merriwa	81
	2022	Golden Highway 2km west of Ringwood Road	Merriwa	87
	2022	Golden Highway 10km west of Bow Street	Merriwa	74
	2022	Golden Highway 1.7km west of Westwood Road	Gunggal	20
	2022	Golden Highway 20km west of Merriwa	Merriwa	52

RUM code table

PEDESTRIANS (on foot or in toy/pram)	VEHICLES FROM ADJACENT DIRECTION (intersections only)	VEHICLES FROM OPPOSING DIRECTION	VEHICLES FROM SAME DIRECTION	MANOEUVRING	OVERTAKING	ON PATH	OFF PATH, ON STRAIGHT	OFF PATH, ON CURVE OR TURNING	MISCELLANEOUS	
			Vehicles in same lane							
NEAR SIDE	00 CROSS TRAFFIC	10 HEAD ON (not overtaking)	20 REAR END	30 U TURN	40 HEAD ON (including side swipe)	50 PARKED	60 OFF CARRIAGEWAY TO LEFT	70 OFF CARRIAGEWAY LEFT ON RIGHT BEND	80 FELL IN / FROM VEHICLE	90
EMERGING	01 RIGHT FAR	11 RIGHT THROUGH	21 LEFT REAR	31 U TURN INTO FIXED OBJECT / PARKED VEHICLE	41 OUT OF CONTROL	51 DOUBLE PARKED	61 LEFT OFF CARRIAGEWAY INTO OBJECT / PARKED VEHICLE	71 OFF CARRIAGEWAY LEFT ON RIGHT BEND INTO OBJECT / PARKED VEHICLE	81 LOAD OR MISLE STRUCK VEHICLE	91
FAR SIDE	02 LEFT FAR	12 LEFT THROUGH	22 RIGHT REAR	32 LEAVING PARKING	42 PULLING OUT	52 ACCIDENT OR BROKEN DOWN	62 OFF CARRIAGEWAY TO RIGHT	72 OFF CARRIAGEWAY RIGHT ON RIGHT BEND	82 STRUCK TRAIN / AIRCRAFT	92
			Vehicles in parallel lanes							
PLAYING, WORKING, LYING, STANDING ON CARRIAGEWAY	03 RIGHT NEAR	13 RIGHT / LEFT	23 LANE SIDE SWIPE	33 ENTERING PARKING	43 OVERTAKE TURNING	53 VEHICLE DOOR	63 RIGHT OFF CARRIAGEWAY INTO OBJECT / PARKED VEHICLE	73 OFF CARRIAGEWAY RIGHT ON RIGHT BEND INTO OBJECT / PARKED VEH	83 PARKED VEHICLE RUN AWAY INTO OBJECT / PARKED VEH	93
WALKING WITH TRAFFIC	04 TWO RIGHT TURNING	14 RIGHT / RIGHT	24 LANE CHANGE RIGHT (not overtaking)	34 PARKING VEHICLES ONLY	44 CUTTING IN	54 PERMANENT OBSTRUCTION ON CARRIAGEWAY	64 OUT OF CONTROL ON CARRIAGEWAY	74 OFF CARRIAGEWAY RIGHT ON LEFT BEND	84 PARKED VEHICLE RUN AWAY INTO VEHICLE	94
FACING TRAFFIC	05 RIGHT / LEFT FAR	15 LEFT / LEFT	25 LANE CHANGE LEFT	35 REVERSING	45 PULLING OUT REAR END	55 TEMPORARY ROADWORKS	65 OFF END OF ROAD / T JUNCTION INTERSECTION	75 OFF CARRIAGEWAY RIGHT ON LEFT BEND INTO OBJECT / PARKED VEHICLE	85 STRUCK WHILE BOARDING OR ALIGHTING VEHICLE	95
ON FOOTPATH / NEAR	06 LEFT NEAR	16	26 RIGHT TURN SIDE SWIPE	36 REVERSING INTO FIXED OBJECT / PARKED VEHICLE	46	56 STRUCK OBJECT ON CARRIAGEWAY	66 OFF CARRIAGEWAY LEFT ON LEFT BEND	76	86	96
DRIVEWAY	07 LEFT / RIGHT FAR	17	27 LEFT TURN SIDE SWIPE	37 EMERGING FROM DRIVEWAY	47	57 ANIMAL (not horses)	67 OFF CARRIAGEWAY LEFT ON LEFT BEND INTO OBJECT / PARKED VEHICLE	77	87	97
OTHER PEDESTRIAN	09 OTHER ADJACENT	19 OTHER OPPOSING	29 OTHER SAME DIRECTION	39 OTHER MANOEUVRING	49 OTHER OVERTAKING	59 OTHER ON PATH	69 OTHER STRAIGHT	79 OTHER CURVE	89 UNKNOWN	99



## Appendix F OSOM vehicle checks



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© 2023 Microsoft Corporation © 2022 Maxar ©CNES (2022) Distribution Airbus DS



CLIENT:



DATE:	REVISION:	DESCRIPTION:
09.02.2023	0	CLIENT REVIEW

PROJECT:  
RINGWOOD ROAD UPGRADE

DRAWING TITLE:  
SWEPT PATHS

ISSUE STATUS:  
CLIENT REVIEW



SCALE:  
1:750 @ A3

DWG No: HEC22\_

JOB No: 22Q3J3

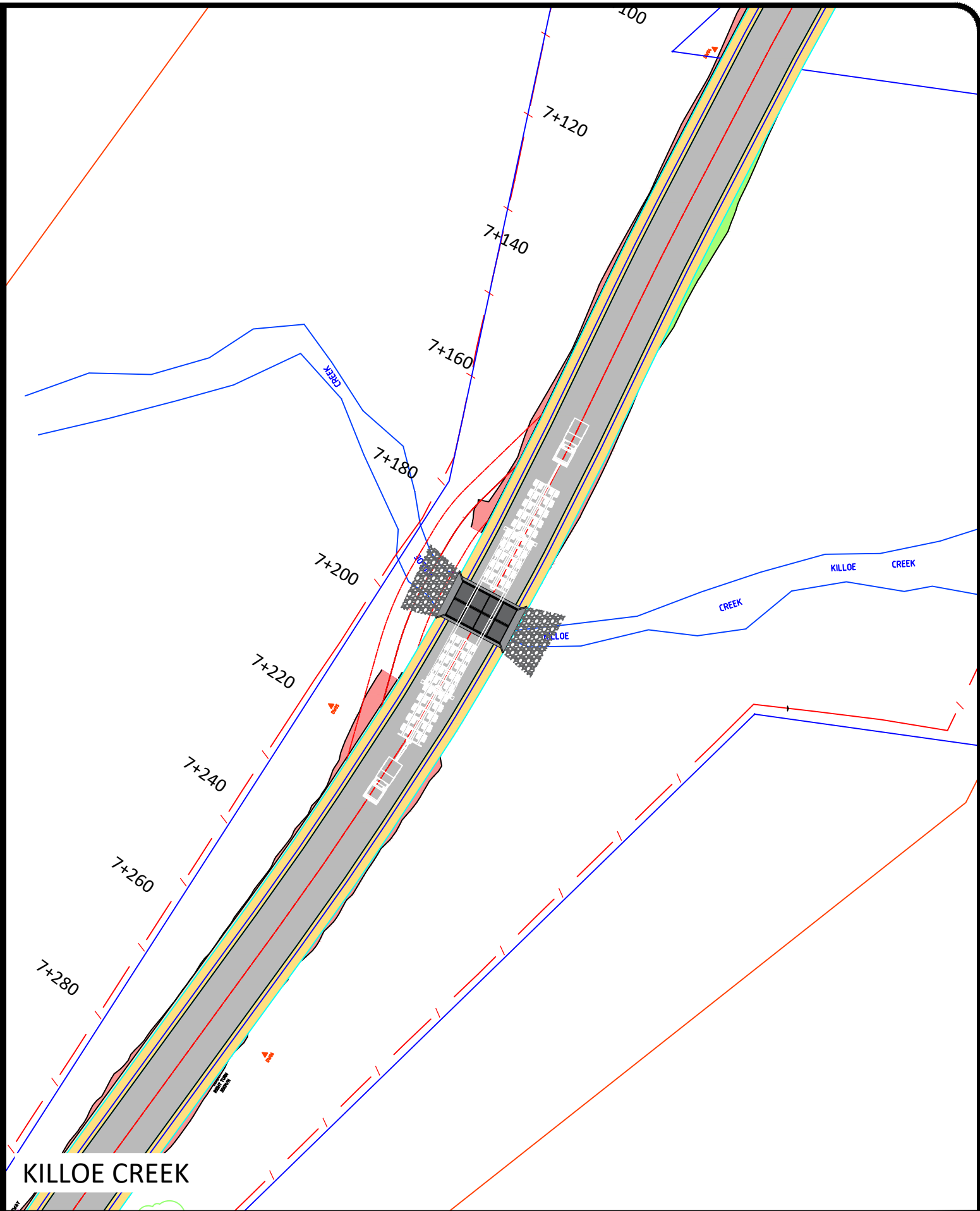
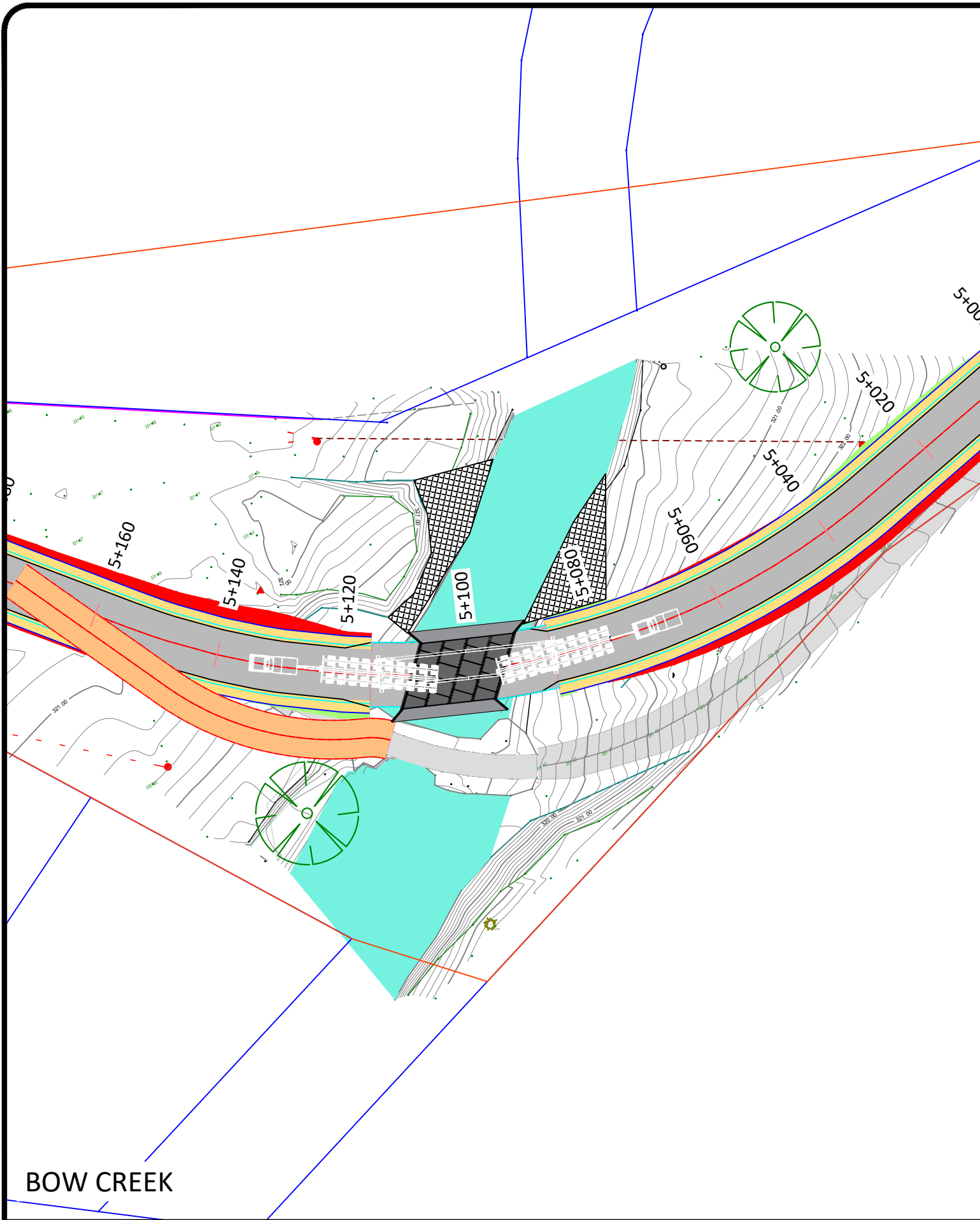
COORDINATE SYSTEM: MGA ZONE 56 GDA 2020

DATUM: AHD

SURVEYED:  
OTHERS

DESIGNED: RS  
DRAWN: RJ

SHEET: 1  
REV: 0



BOW CREEK

KILLOE CREEK



CLIENT:



DATE:	REVISION:	DESCRIPTION:
09.02.2023	0	CLIENT REVIEW

PROJECT:  
RINGWOOD ROAD UPGRADE

DRAWING TITLE:  
SWEPT PATHS

ISSUE STATUS:  
CLIENT REVIEW



SCALE:  
1:750 @ A3

DWG No: HEC22\_  
JOB No: 22Q3J3

COORDINATE SYSTEM: MGA ZONE 56 GDA 2020  
DATUM: AHD

SURVEYED:  
OTHERS

DESIGNED: RS  
DRAWN: RJ

SHEET: 2  
REV: 0

---

## Appendix G OSOM Transport Management Plan for Avonlea Solar Farm



# TRANSPORT MANAGEMENT PLAN

**CLIENT:** DEUGRO

**PROJECT:** AVONLEA SOLAR FARM

**PORT OF IMPORT:** MAYFIELD #4 BERTH NEWCASTLE

**DELIVERY POINT:** MUNTZ ROAD SANDIGO

22/03/2022 REV 02

Rev.	Date	Change	Responsible	Checked
00	24/01/22	Route Assessed	C Ewin	✓
00	14/02/22	Report compiled	W Andrews	✓
00	21/02/22	Report completed	W Andrews	✓
01	22/02/22	Edits.	W Andrews	✓
02	22/03/22	Updated route at Parkes	W Andrews	✓

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## **1.0 Introduction**

This document describes observations and previous experience on route and explains the Transport of a Transformer from Mayfield, NSW to Sandigo NSW.

This Route study took place on 24.01.22

## 2.0 Evaluation

<b>1</b>	No Cost
<b>2</b>	Some Work
<b>3</b>	Urgent Modification
<b>4</b>	Extreme Amount of Work

**(Mark below boxes with an X)**

		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
A	Harbour	<b>N/A</b>			
B	Road Modification	<b>X</b>			
C	Road Furnishings	<b>X</b>			
D	Trees		<b>X</b>		
E	Site Entrance	<b>X</b>			
F	Bridge Calculations		<b>X</b>		
G	Traffic Control		<b>X</b>		



### 3.0 Project data.

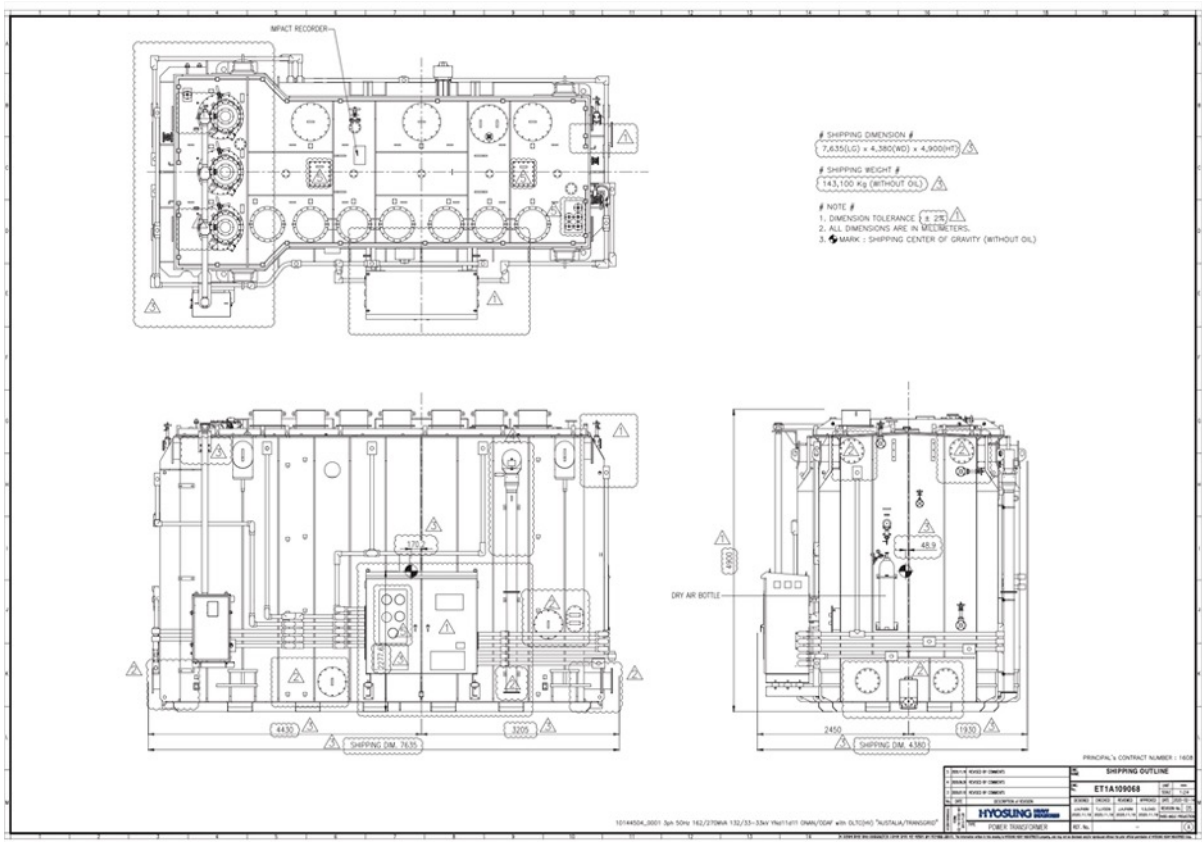
**Date of latest Route Study.** 24/01/22

**Survey undertaken by.** (Rex J Andrews P/L)

**Project name.** Avonleigh Solar Farm

**Route.** Mayfield NSW to Sandigo NSW Australia

**Transformer dimensions:** 7.8l x 4.4w x 4.9h x 143.0T



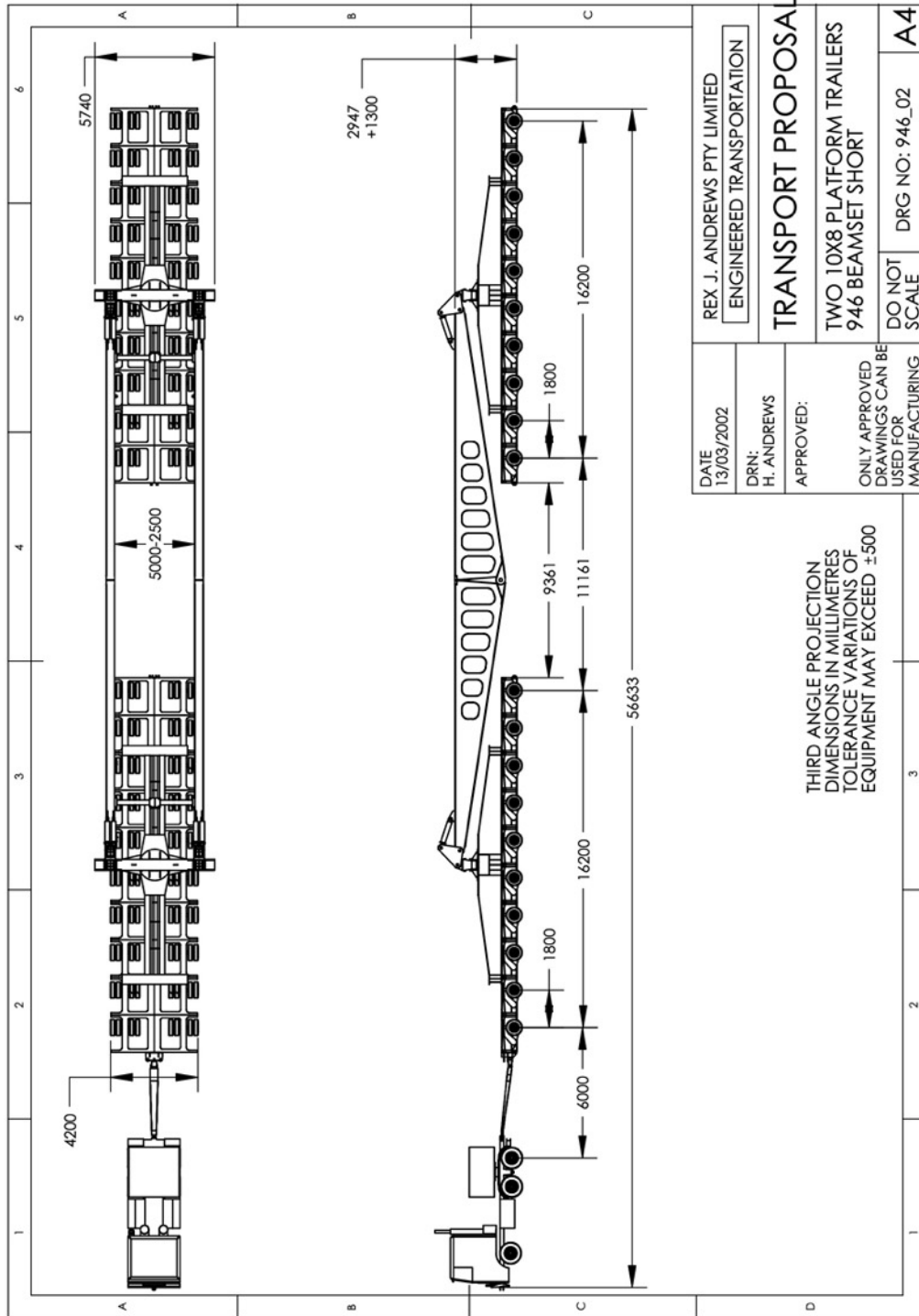
**Transport combination type:** 4 x block trucks with 10x8-10x8 Beamset

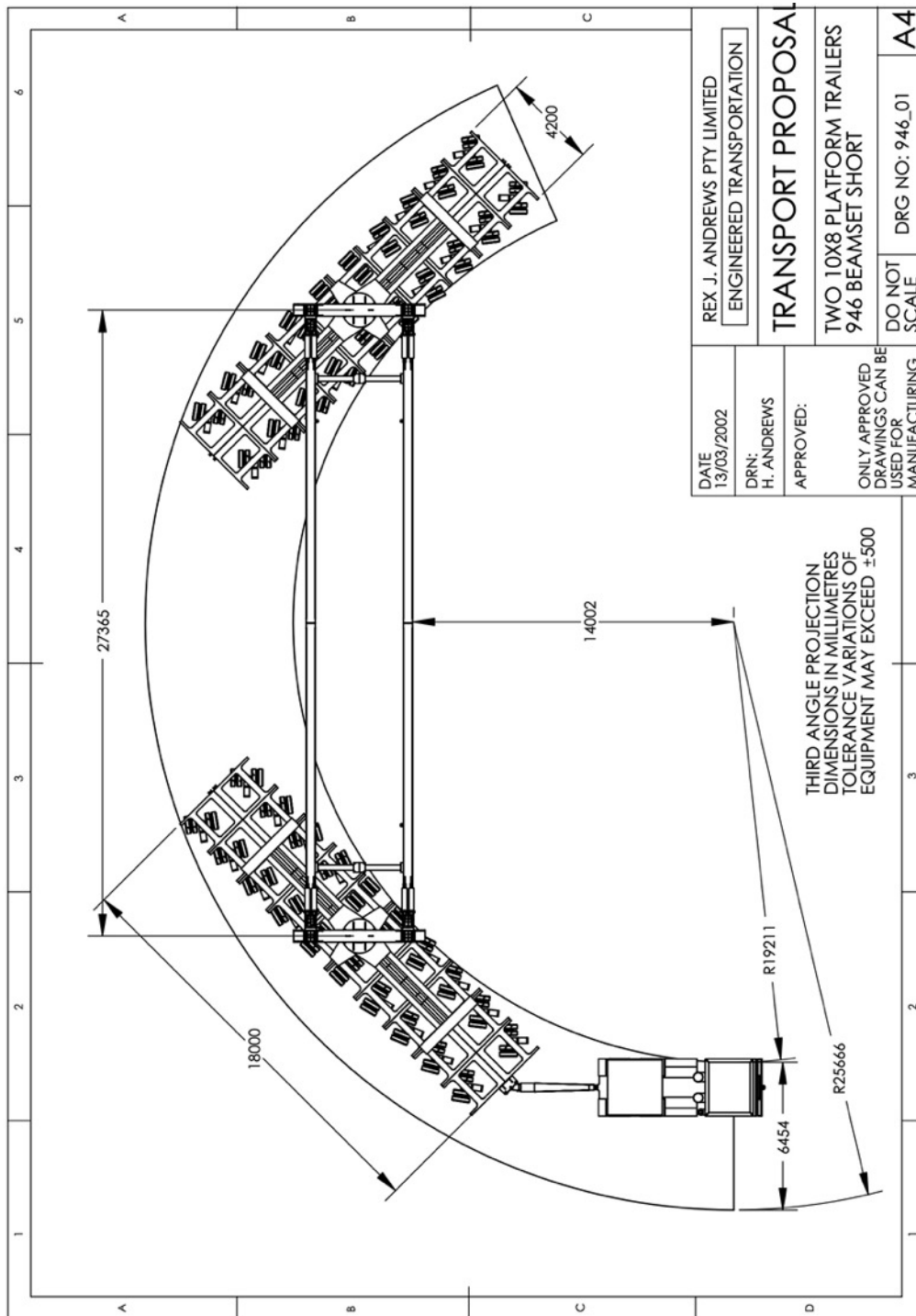
**Transport combination tare weight:** 216.5T

**Transport combination overall dimensions:**

110 long x 6.5 wide x 5.6 high x 359.0 Ton

4.0 Transport Drawing.





---

## 5.0 Transport Route.

**ROUTE: Newcastle Port (Mayfield #4 berth) to Sandigo, 823.0 kilometres:**

This route took us via Selwyn street, George Street, Industrial Drive, Maitland Road, New England Highway, John Renshaw Drive, Hunter Expressway, New England Highway, Golden Highway, Boothenda Road, Troy Bridge Road, Bunglegumbie Road, Mitchell Highway, Manildra Street, Derribong Avenue, Algalah Street, Tomingley Road, Newell Highway, Thomas Street, Moulden Street, Back Trundle Road, Ross Road, Henry Parkes Way, Westlime Road, Hartigan Avenue, Newell Highway, Compton Road, Showground Road, Newell Highway, Sturt Highway, Sandigo Road, Muntz Road.

**GPS LINK:** <https://goo.gl/maps/Vwd1QXaorcU3KMkX6>



---

## 6.0 Transport conditions

The following are the conditions and pinch points for this route:

- No unnecessary noise to be made before 7.00am.
- A prestart meeting to be held between the truck drivers, Pilots & Police before load departs.
- If for any reason communications fail between any of the pilot, escort of load vehicle occurs, the load is to cease until such time as it can be re-established.
- Load is to travel in the Newcastle and Sydney Metro between 10.00pm and 5.00am weekdays, and 10.00pm and 8.00am weekends. public holiday period.
- Load is to travel in rural areas in daylight hours only.
- Load will require a minimum 2 x police escort & 4 x Company Pilots.
- Client to give adequate access for load to access Avonleigh Solar farm.
- Roadwork's to be checked with RMS 7 days prior to leaving and relayed to client with any potential problems.
- Load to travel at an average speed of 20 km p/hr. However, the load will slow down for bridge crossings, corners and inclines/declines.
- Portable VMS board to travel with the load.
- Load to traverse bridge structures as per TfNSW bridge investigation report.
- Permits/Approval letters from state government authorities to access their networks on this route are to be carried with load.
- Permits/Approval letter from Local councils to access their networks on this route are to be carried with load.
- Permits/Approval letter from Electrical/Communication authorities to pass under their networks on this route are to be carried with load.

## 7.0 Fatigue scheduling:



**Sydney**  
PO Box 271, Penrith NSW 2751  
Ph: 02 4721 7633 Fx: 02 47217644  
Em: sydney@rja.com.au

**Adelaide**  
PO Box 6072, Burton SA 5110  
Ph: 08 8280 5541 Fx: 08 8280 8365  
Em: adelaide@rja.com.au

**Newcastle**  
16 Yilen Close, Beresfield NSW 2322  
Ph: 02 4966 1788 Fx: 02 4966 1744  
Em: newcastle@rja.com.au

### Trip Schedule

<b>Schedule Details</b>	Avonleigh Solar Project Transportation of a power transformer in a beamset	<b>Sch No</b> SCH02274 <b>Date</b> 21/02/2022 1:28:12 pm <b>Written By</b> Warrick Andrews <b>Consulted</b> Carl Andrews
<b>Schedule Notes:</b>	<ul style="list-style-type: none"> <li>- This Schedule has been written based on values known at the time for good driving conditions and no known fatigue related issues prior to starting the trip.</li> <li>- Do not drive to the schedule if you fell tired. Stop revive survive</li> <li>- No attempt should be made to make up for lost time on a schedule.</li> <li>- Please modify all times according to your real start time.</li> <li>- You must still fill in your Logbook, exactly as the hours you have worked.</li> </ul> <p><b>Please work with the Scheduler who wrote this to make the schedule better for all.</b></p>	

Start	End	Hr	Day	Km	avg	Type	Location	Notes
0:15am	0:30am	0.25	1	0	0	Working	Mayfield	Toolbox and prestart
0:30am	5:30am	5.00	1	103	21	Driving	Mayfield to Warkworth	Loaded travel
5:30am	6:00am	0.50	1	0	0	Paid Rest	Warkworth	30 Minute rest break
6:00am	11:00am	5.00	1	94	19	Driving	Warkworth to Merriwa	Loaded travel
11:00am	11:59pm	12.98	1	0	0	Rest	Merriwa	Minimum 7 hour rest break
12:00am	5:45am	5.75	2	0	0	Rest	Merriwa	Minimum 7 hour rest break
5:45am	6:00am	0.25	2	0	0	Working	Merriwa	Toolbox and prestart
6:00am	11:00am	5.00	2	109	22	Driving	Merriwa to Dunedoo	Loaded travel
11:00am	11:30am	0.50	2	0	0	Paid Rest	Dunedoo	30 Minute rest break
11:30am	4:30pm	5.00	2	117	23	Driving	Dunedoo to Narromine	Loaded travel
4:30pm	11:59pm	7.48	2	0	0	Rest	Narromine	Minimum 7 hour rest break
12:00am	5:45am	5.75	3	0	0	Rest	Narromine	Minimum 7 hour rest break
5:45am	6:00am	0.25	3	0	0	Working	Narromine	Toolbox and prestart
6:00am	11:00am	5.00	3	112	22	Driving	Narromine to Parkes	Loaded travel
11:00am	11:30am	0.50	3	0	0	Paid Rest	Parkes	30 Minute rest break
11:30am	4:30pm	5.00	3	129	26	Driving	Parkes to West Wyalong	Loaded travel
4:30pm	11:59pm	7.48	3	0	0	Rest	West Wyalong	Minimum 7 hour rest break



**Stop, Revive, Survive**



Form A013 Schedule Report / Rex J Andrews Pty Ltd , Page 1  
UNCONTROLLED COPY Downloaded from Asset Database by Warrick on 21/2/2022

**REX J ANDREWS** PTY LTD  
ENGINEERED TRANSPORTATION

<b>Sydney</b>	<b>Adelaide</b>	<b>Newcastle</b>
PO Box 271, Penrith NSW 2751 Ph: 02 4721 7633 Fx: 02 47217644 Em: sydney@rja.com.au	PO Box 6072, Burton SA 5110 Ph: 08 8280 5541 Fx: 08 8280 8365 Em: adelaide@rja.com.au	16 Yilen Close, Beresfield NSW 2322 Ph: 02 4966 1788 Fx: 02 4966 1744 Em: newcastle@rja.com.au

**Trip Schedule**

<b>Schedule Details</b>	Avonleigh Solar Project Transportation of a power transformer in a beamset	<b>Sch No</b> SCH02274 <b>Date</b> 21/02/2022 1:28:12 pm <b>Written By</b> Warrick Andrews <b>Consulted</b> Carl Andrews
<b>Schedule Notes:</b>	<ul style="list-style-type: none"> <li>- This Schedule has been written based on values known at the time for good driving conditions and no known fatigue related issues prior to starting the trip.</li> <li>- Do not drive to the schedule if you fell tired. Stop revive survive</li> <li>- No attempt should be made to make up for lost time on a schedule.</li> <li>- Please modify all times according to your real start time.</li> <li>- You must still fill in your Logbook, exactly as the hours you have worked.</li> </ul> <p><b>Please work with the Scheduler who wrote this to make the schedule better for all.</b></p>	

Start	End	Hr	Day	Km	avg	Type	Location	Notes
12:00am	5:45am	5.75	4	0	0	Rest	West Wyalong	Minimum 7 hour rest break
5:45am	6:00am	0.25	4	0	0	Working	West Wyalong	Toolbox and prestart
6:00am	11:00am	5.00	4	125	25	Driving	West Wyalong to Grong Grong	Loaded travel
11:00am	11:30am	0.50	4	0	0	Paid Rest	Grong Grong	30 Minute rest break
11:30am	4:30pm	5.00	4	39	8	Driving	Grong Grong To Sandigo	Loaded travel
4:30pm	11:59pm	7.48	4	0	0	Rest		



**Stop, Revive, Survive**



Form A013 Schedule Report / Rex J Andrews Pty Ltd , Page 2  
UNCONTROLLED COPY Downloaded from Asset Database by Warrick on 21/2/2022

---

## 8.0 Transport approvals required

Approvals will need to be sought from the following departments.

- NHVR
- TfNSW
- TMC
- NSW Police
- ARTC
- Local councils
- Power service providers
- Telstra

## 9.0 Travel dates

TBC, Likely Q3 2022



---

## **10.0 Managing queued traffic behind the load.**

During the journey the interaction with other road users will require management of queued traffic.

The protocol to provide queued traffic an opportunity to pass the load will be reliant on the rear pilot constantly monitoring the queue of traffic and relaying this information back to the convoy, the lead pilot / Police in conjunction with the driver will identify suitable areas that allow a safe passing point for the passing vehicles.

The lead escort / Police escort will also determine safe areas to halt the load to allow backed up vehicles to pass. Safe pull over areas can include turn off into Private Roads and/or other roads, pull over on the shoulder during overtaking lanes, designated pull over/ rest stop areas or service stations, these areas will be a hardstand area, or an area wide enough for the escort to direct vehicles around the combination.

The load MUST pull over or slow to allow the backed-up vehicles to pass. Rear pilot will inform all other pilots and driver when there has been a lag from last pull over and if other cars have been following for a short distance, in this instance apply the passing protocol again, this will continue throughout the journey as required to ensure queued traffic do not experience excessive delays. The driver and pilots will also allow vehicles to pass at any opportunity that allows a safe area for this vehicle and its load to pull over safely and will.

## **11.0 Interacting with roadwork:**

Roadworks to be checked prior to load departing. TfNSW/TMC will provide RJA with a list of conflicts. RJA will contact each of these conflicts and seek approval to pass through their workzone.

The lead pilot will make contact with the road crews to advise of the nature of the load, size, dimensions, to establish if the load is ok to enter the work zone.

In this instance the convoy will work with all reasonable instructions from the road crew to coordinate the safe passage of the load through the affected areas.

Pilots, Police and local traffic controllers will work together to facilitate the necessary actions required to travel through the work zone.

---

## 12.0 Emergency Contacts & plans.

1<sup>st</sup> Point of contact: RJA Operations 0247217633

2<sup>nd</sup> Point of contact: Rex J Andrews's supervisor 24 hrs. (Carl Andrews 0419219890)

### STANDARD EMERGENCY NUMBERS IF REQUIRED

- Main Emergency number (000)
  - NSW Traffic Operations (02 88821219)
  - TMC Operations room (1800 679782) or (1300725886)
  - Essential Energy (132080)
  - Ausgrid (131388)
  - GRS Towing 1300 550 600
- 
- In the event of an emergency situation, such as breakdown, the load will be moved to the left-hand lane/shoulder to ensure minimal traffic impacts; police and pilots (Under the direction of the police) will manage traffic flow. In such instances the TMC should be promptly advised so that all necessary warnings can be made.
  - Where a tow is required, the trailer will be unhooked from the prime mover and a standby truck be called. In such instances the TMC should be promptly advised so that all necessary warnings can be made.
  - If police decide that the movement should be suspended as a result of time or potential traffic impacts the trailer with the load will be moved to a safe parking location and the TMC will be notified.
  - In the event of bad weather, the driver is to notify the first point of contact before departing.
  - If the road is blocked between the pickup location and drop off location, then the load is not to depart.
  - Roadwork's to be checked with TfNSW 2 days prior to leaving and relayed to client with any potential problems.
  - Route to be checked with Live Traffic and TMC 2 days before travel and on the night of travel before departure

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## **13.0 Emergency stopping / pulling up for rest areas:**

In the event of an emergency or scheduled rest break, establish positive communications with all pilots and driver and identify the next suitable area to halt the load, rear pilot should remain 200 metres behind the load to warn approaching traffic.

Ensure the load is as far to the left as possible so as to not impede any traffic from passing.

If the breakdown is major and requires a mechanic to attend contact the TMC and advise them of the disruption to traffic. Minor repairs that can be rectified in a short time do not require the TMC to be advised.

In the event that road works are encountered on route lead pilot is to call in on the nominated UHF channel and advise the local traffic control of the inbound load and await approval to enter the work zone.

Follow normal traffic management procedures as outlined in: SOP\_030 Traffic Management Procedures.

The suggested rest areas are an indication only and dependant on the local traffic movements and occupancy of these rest areas it may not be possible to get off the road.

In this instance the lead pilot should travel ahead to identify the next suitable area.

This methodology can also be adopted to allow built up traffic to pass by slowing the load down and easing into break down areas to allow traffic to pass before continuing on.

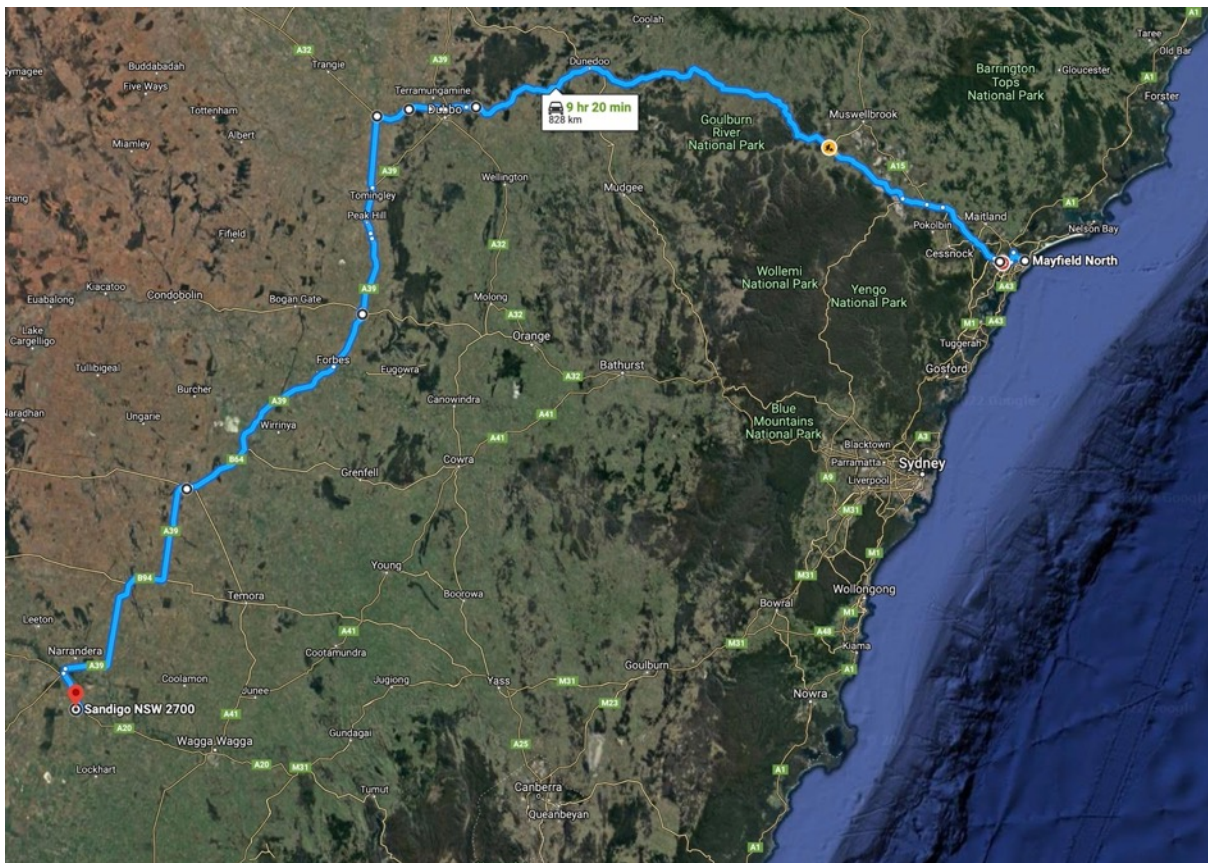
Listed in the index are Emergency parking areas on route.

## 14.0 Transport plan & pinch points: Newcastle Port to Sandigo

**This route took us via:** Selwyn street, George Street, Industrial Drive, Maitland Road, U-Turn at Old Maitland Road, Maitland Road, Newcastle Inner City Bypass, Newcastle Road, Thomas Street, Newcastle Link Road, Hunter Expressway, New England Highway, Golden Highway, Boothena Road, Troy Bridge Road, Bunglegumbie Road, Mitchell Highway, Manildra Street, Derribong Avenue, Algalah Street, Tomingley Road, Newell Highway, Thomas Street, Moulden Street, Back Trundle Road, Ross Road, Henry Parkes Way, Westlime Road, Hartigan Avenue, Newell Highway, Compton Road, Showground Road, Newell Highway, Sturt Highway, Sandigo Road, Muntz Road.

**Distance:** 828 Kilometres

**GPS Link:** <https://goo.gl/maps/Vwd1QXaorcU3KMkX6>





KEY	
<b>CRITICAL</b>	
<b>CAUTION</b>	
<b>EMERGENCY PARKING</b>	

KM index	Location	Section of road	Current clearance	Procedure	Notes
0.0	Mayfield	Mayfield #4 berth onto Selwyn Street GPS link: <a href="https://goo.gl/maps/aflwPYKuNdm">https://goo.gl/maps/aflwPYKuNdm</a>	Length: 70.0 metres Width: 8.5 metres Height: N/A	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
0.4	Mayfield	Selwyn Street rail crossing GPS link: <a href="https://goo.gl/maps/AmohE54hKSz">https://goo.gl/maps/AmohE54hKSz</a>	Width: 9.0 metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
1.3	Mayfield	Selwyn Street onto Industrial Drive via George Street GPS link: <a href="https://goo.gl/maps/gXeHvBtCp4D2">https://goo.gl/maps/gXeHvBtCp4D2</a>	Length: 70.0 metres Width: 9.0 metres Height: N/A	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
5.5	Mayfield West	Industrial Drive onto Maitland Road GPS link: <a href="https://goo.gl/maps/Kn49dhWG2qG2">https://goo.gl/maps/Kn49dhWG2qG2</a>	Length: 50.0 metres Width: 9.0 metres Height: 5.8	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
8.0	Sandgate	Maitland Road U-turn procedure at Inner City Bypass intersection GPS link: <a href="https://goo.gl/maps/meQGKpGdRuvCTPgr7">https://goo.gl/maps/meQGKpGdRuvCTPgr7</a>	Length: 80.0 metres Width: 10.0 metres Height: N/A	Travel to the incorrect side of the road.	Load is to cross to incorrect side (Southbound lanes) of Maitland Road at the intersection of the Inner-City Bypass. Then travel on the incorrect side (Southbound Lanes) of Maitland road through to Old Maitland Road. Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
8.4	Sandgate	Maitland Road onto Old Maitland Road GPS link: <a href="https://goo.gl/maps/RGSB79x8xbvj4wqe6">https://goo.gl/maps/RGSB79x8xbvj4wqe6</a>	Length: 50.0 metres Width: 7.0 metres Height: N/A	Left hand turn	Load is to turn from the southbound lanes on Maitland Road into Old Maitland Road. Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.

KM index	Location	Section of road	Current clearance	Procedure	Notes
8.5	Sandgate	Old Maitland Road onto Maitland Road GPS link: <a href="https://goo.gl/maps/MHtKSrgbtgGC4T37">https://goo.gl/maps/MHtKSrgbtgGC4T37</a>	Length: 50.0 metres Width: 7.0 metres Height: N/A	Reverse back onto Maitland Road	The load is to reverse back onto the Southbound lanes of Maitland Road, before travelling south on the correct side of Maitland Road towards the Inner-City bypass. Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
9.0	Sandgate	Maitland Road onto Newcastle Inner City bypass GPS link: <a href="https://goo.gl/maps/WR97pBUPiG7ULd757">https://goo.gl/maps/WR97pBUPiG7ULd757</a>	Length: 80.0 metres Width: 10.0 metres Height: N/A	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
9.0 to 14.0	Sandgate to Jesmond	Newcastle Inner City bypass GPS link: <a href="https://goo.gl/maps/icyMlatCTV5NHUHK7">https://goo.gl/maps/icyMlatCTV5NHUHK7</a>	HEIGHT: 5.45 metres	Travel directly ahead	The Newcastle inner city bypass has 4 structures that the load will travel under. The lowest of these is Janet street which has a clearance of 5.45 metres in the left lane, and 5.7 metres in the right lane.
14.0	Jesmond	Newcastle Inner City bypass onto Newcastle Road GPS link: <a href="https://goo.gl/maps/1MUmyjNyydDakRZx6">https://goo.gl/maps/1MUmyjNyydDakRZx6</a>	Length: 80.0 metres Width: 10.0 metres Height: N/A	Right hand turn at the roundabout before taking the second exit onto Newcastle Road	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
15.5	Wallsend	Newcastle Road onto the Thomas Street GPS link: <a href="https://goo.gl/maps/1DCZxPpZT41RFd8w7">https://goo.gl/maps/1DCZxPpZT41RFd8w7</a>	Length: 60.0 metres Width: 7.0 metres Height: N/A	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
16.5	Wallsend	Thomas Street onto Newcastle Link Road GPS link: <a href="https://goo.gl/maps/J6kSa2e99L5gMxbD8">https://goo.gl/maps/J6kSa2e99L5gMxbD8</a>	Length: 100.0 metres Width: 12.0 metres Height: N/A	Travel directly ahead	No problems with this section of road.
19.0	Wallsend	Newcastle Link Road at Transfield Avenue GPS link: <a href="https://goo.gl/maps/noHnEkQTa641xHT49">https://goo.gl/maps/noHnEkQTa641xHT49</a>	Length: 60.0 metres Width: 9.0 metres Height: N/A	Travel directly ahead through the roundabout	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
21.0	Cameron Park	Newcastle Link Road at Minmi Road GPS link: <a href="https://goo.gl/maps/bPWYt3pzVRyWd7QeA">https://goo.gl/maps/bPWYt3pzVRyWd7QeA</a>	Length: 60.0 metres Width: 9.0 metres Height: N/A	Travel directly ahead through the roundabout	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.

KM index	Location	Section of road	Current clearance	Procedure	Notes
23.0	Cameron Park	Newcastle Link Road onto the Hunter Expressway GPS link: <a href="https://goo.gl/maps/WNCElytZxc2hV7YR7">https://goo.gl/maps/WNCElytZxc2hV7YR7</a>	Length: 80.0 metres Width: 7.0 metres Height: N/A	Travel directly ahead	No problems with this section of road.
64.0	Branxton	The Hunter Expressway onto The New England Highway <a href="https://goo.gl/maps/7rauNuxzjq">https://goo.gl/maps/7rauNuxzjq</a>	Length: 100.0 Mtrs Width: 12.0 Mtrs	Travel directly ahead	No problems with this section of road.
72.0	Whittingham	The New England Highway onto the Golden Highway <a href="https://goo.gl/maps/nAnfkYfeUn42">https://goo.gl/maps/nAnfkYfeUn42</a>	Length: 70.0 Mtrs Width: 8.0 Mtrs	Left Hand turn	The NSW Government is currently upgrading this intersection. At this stage the data that is available for the upgrades shows that the section of road that we would need to access does not change considerably. However, it is recommended that you monitor the progress of the upgrades, and that any changes are thoroughly looked at.
72.1	Whittingham	Golden Highway <a href="https://goo.gl/maps/R86RFuPnmFU2">https://goo.gl/maps/R86RFuPnmFU2</a>	115.0 x 9.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
73.0	Whittingham	Golden Highway over rail bridge <a href="https://goo.gl/maps/5NwDQofandvvMKIY9">https://goo.gl/maps/5NwDQofandvvMKIY9</a>	Length: 90 metres Width: 9.0 Metres	Travel directly ahead in the centre of the road.	Approval from Rail company required to cross this structure. Travel over this structure may have specific conditions.
82.3	Mount Thorley	Golden Highway over rail bridge <a href="https://goo.gl/maps/qTxSbkxPu87L5hx4A">https://goo.gl/maps/qTxSbkxPu87L5hx4A</a>	Length: 90 metres Width: 9.0 Metres	Travel directly ahead in the centre of the road.	Approval from Rail company required to cross this structure. Travel over this structure may have specific conditions.
82.4	Whittingham	Golden Highway intersection with the Putty Road <a href="https://goo.gl/maps/7hQdEmK1EgE2">https://goo.gl/maps/7hQdEmK1EgE2</a>	Length: 65 metres Width: 6.0 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
82.5	Mount Thorley	Golden Highway <a href="https://goo.gl/maps/zGvdupDuixx">https://goo.gl/maps/zGvdupDuixx</a>	100.0 x 10.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
85.6	Mount Thorley	Golden Highway over rail bridge <a href="https://goo.gl/maps/ipGU4USXmWZ8GkJs6">https://goo.gl/maps/ipGU4USXmWZ8GkJs6</a>	Length: 90 metres Width: 9.0 Metres Height: 5.2 metres	Travel directly ahead in the centre of the road.	Approval from Rail company required to cross this structure. Travel over this structure may have specific conditions.
85.8	Mount Thorley	Golden Highway intersection with the Putty Road <a href="https://goo.gl/maps/OS9quvSyHYWaFHoX9">https://goo.gl/maps/OS9quvSyHYWaFHoX9</a>	Length: 45 metres Width: 6.0 Metres	Right hand turn	Loads to turn onto the incorrect side of the Golden Highway, and travel on the incorrect side for 300 metres. Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.

KM index	Location	Section of road	Current clearance	Procedure	Notes
103.0	Warkworth	Golden Highway <a href="https://goo.gl/maps/Y6V6EXaCwxq">https://goo.gl/maps/Y6V6EXaCwxq</a>	100.0 x 8.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
112.0	Jerrys Plains	Golden Highway through Jerrys Plains village <a href="https://goo.gl/maps/WgSCRsJ9ZGt">https://goo.gl/maps/WgSCRsJ9ZGt</a>	Length: 60 metres Width: 6.0 Metres	Left hand than right hand turn	No problems with this section of road.
131.0	Ogilvy	Golden Highway <a href="https://goo.gl/maps/58Tj9ojs7CC2">https://goo.gl/maps/58Tj9ojs7CC2</a>	6% gradient	Travel directly ahead	This section of road has a steep mountain range that will require additional pull trucks to assist loads that exceed 80T gross weight. Additionally, the NSW Government is currently upgrading this section of road. It is recommended that you monitor the progress of the upgrades, and that any changes are thoroughly looked at.
137.0	Denman	Golden Highway at Denman Road <a href="https://goo.gl/maps/sf4PNnvcxB32">https://goo.gl/maps/sf4PNnvcxB32</a>	Length: 55 metres Width: 6.0 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
138.0	Denman	Golden Highway over Denman Bridge GPS link: <a href="https://goo.gl/maps/UToXyFe3QKu">https://goo.gl/maps/UToXyFe3QKu</a>	5.7 Metres height clearance 6.9 Metres width clearance	Travel directly ahead in the centre of the lane	A width of 6.5 metres and a height of 5.5 metres should not be exceeded of this structure. Load to be lowered to 5.5 metres before travelling over this structure.
158.0	Sandy Hollow	Golden highway <a href="https://goo.gl/maps/2THBuV165xx">https://goo.gl/maps/2THBuV165xx</a>	50.0 x 4.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
159.0	Sandy Hollow	Golden Highway under safety Cam <a href="https://goo.gl/maps/b7f9zH2ankJcvWpT6">https://goo.gl/maps/b7f9zH2ankJcvWpT6</a>	Height: Left: 6.3 metres	Travel directly ahead on the correct side	No problems with this section of road.
170.0	Gungal	Golden highway <a href="https://goo.gl/maps/WDoL2LfcCoP2">https://goo.gl/maps/WDoL2LfcCoP2</a>	70.0 x 6.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
187.0	Merriwa	Golden Highway under safety Cam <a href="https://goo.gl/maps/D92rzQ8vnUcYsqj56">https://goo.gl/maps/D92rzQ8vnUcYsqj56</a>	Height: Right: 6.4 metres	Travel directly ahead on the correct side	No problems with this section of road.
197.0	Merriwa	Golden highway <a href="https://goo.gl/maps/NqrWzTsRmmt">https://goo.gl/maps/NqrWzTsRmmt</a>	100.0 x 5.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
247.0	Cassilis	Golden highway <a href="https://goo.gl/maps/vs6YMT6TxCA2">https://goo.gl/maps/vs6YMT6TxCA2</a>	200.0 x 8.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
273.0	Leadville	Golden highway <a href="https://goo.gl/maps/ujxMGukhopeFWRhb8">https://goo.gl/maps/ujxMGukhopeFWRhb8</a>	200.0 x 8.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
306.0	Dunedoo	Golden Highway over rail crossing <a href="https://goo.gl/maps/wsyNKfcoAij3SosY9">https://goo.gl/maps/wsyNKfcoAij3SosY9</a>	Length: 90 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.

KM index	Location	Section of road	Current clearance	Procedure	Notes
306.1	Dunedoo	Golden Highway intersection with Wargundy Street <a href="https://goo.gl/maps/WzACUHey3jYadj1K7">https://goo.gl/maps/WzACUHey3jYadj1K7</a>	Length: 60 metres Width: 6.0 Metres	Right hand bend	No problems with this section of road.
357.0	Ballimore	Golden Highway <a href="https://goo.gl/maps/RuKKrfHarw1Mjy5E9">https://goo.gl/maps/RuKKrfHarw1Mjy5E9</a>	150.0 x 8.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
365.0	Ballimore	Golden Highway over rail crossing <a href="https://goo.gl/maps/yb15Kz6R2r3E69fj6">https://goo.gl/maps/yb15Kz6R2r3E69fj6</a>	Length: 90 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
372.0	Dubbo	Golden Highway onto Boothenba Road <a href="https://goo.gl/maps/TJLi5W4ir11ejqtb6">https://goo.gl/maps/TJLi5W4ir11ejqtb6</a>	Length: 50 metres Width: 6.5 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
384.0	Dubbo	Boothenba Road over rail crossing <a href="https://goo.gl/maps/72ageimPLqPWYY7M9">https://goo.gl/maps/72ageimPLqPWYY7M9</a>	Length: 90 metres Width: 6.5 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
384.1	Dubbo	Boothenba Road onto Troy Bridge Road <a href="https://goo.gl/maps/2u5uRf2BvKxseoFm9">https://goo.gl/maps/2u5uRf2BvKxseoFm9</a>	Length: 90 metres Width: 6.5 Metres	Travel directly ahead	No problems with this section of road.
387.0	Dubbo	Troy Bridge Road onto Bunglegumbie road <a href="https://goo.gl/maps/6Uke9jwPypNYVPux5">https://goo.gl/maps/6Uke9jwPypNYVPux5</a>	Length: 90 metres Width: 6.5 Metres	Travel directly ahead	No problems with this section of road.
403.0	Dubbo	Bunglegumbie road onto the Mitchell Highway <a href="https://goo.gl/maps/jCWqmaQsd3fChp837">https://goo.gl/maps/jCWqmaQsd3fChp837</a>	Length: 50 metres Width: 6.5 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
423.0	Narromine	Mitchell Highway onto Manildra Street <a href="https://goo.gl/maps/hFG648tcSMUHxJ8h6">https://goo.gl/maps/hFG648tcSMUHxJ8h6</a>	Length: 40 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
423.1	Narromine	Manildra Street over rail crossing <a href="https://goo.gl/maps/4s2HYJJfQ5pGbKg7">https://goo.gl/maps/4s2HYJJfQ5pGbKg7</a>	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
423.2	Narromine	Manildra Street onto Derribong Avenue <a href="https://goo.gl/maps/776aPaxqsFTWi6qL6">https://goo.gl/maps/776aPaxqsFTWi6qL6</a>	Length: 40 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
423.5	Narromine	Derribong Avenue onto Algalah Street <a href="https://goo.gl/maps/9s8cb8G4T2c751V8">https://goo.gl/maps/9s8cb8G4T2c751V8</a>	Length: 40 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
425.0	Narromine	Algalah Street onto Tomingley Road <a href="https://goo.gl/maps/EWfZY03Xos6T3J8A8">https://goo.gl/maps/EWfZY03Xos6T3J8A8</a>	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	No problems with this section of road.
460.0	Tomingley	Tomingley Road onto the Newell Highway <a href="https://goo.gl/maps/NJtXmHCFHxaiMaq39">https://goo.gl/maps/NJtXmHCFHxaiMaq39</a>	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	No problems with this section of road.



KM index	Location	Section of road	Current clearance	Procedure	Notes
461.0	Tomingley	Newell Highway <a href="https://goo.gl/maps/ADMke5At2A1Uy1z4A">https://goo.gl/maps/ADMke5At2A1Uy1z4A</a>	200.0 x 15.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
462.0	Tomingley	Newell Highway under safety Cam <a href="https://goo.gl/maps/9Vqu9xXxRwhHt4Uk6">https://goo.gl/maps/9Vqu9xXxRwhHt4Uk6</a>	Height: Right: 6.8 metres	Travel directly ahead on the correct side	No problems with this section of road.
463.0	South Tomingley	Newell Highway <a href="https://goo.gl/maps/1q8f6HJ2zsZSxup66">https://goo.gl/maps/1q8f6HJ2zsZSxup66</a>	150.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
475.0	Peak Hill	Newell Highway <a href="https://goo.gl/maps/orKTBB8wobK6exsc6">https://goo.gl/maps/orKTBB8wobK6exsc6</a>	90.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
476.0	Peak Hill	Newell Highway under safety Cam <a href="https://goo.gl/maps/sAbh8zwZzVMriD2A">https://goo.gl/maps/sAbh8zwZzVMriD2A</a>	Height: Right: 6.3 metres	Travel directly ahead on the correct side	No problems with this section of road.
499.0	Alectown	Newell Highway <a href="https://goo.gl/maps/GMGbFJHAfEkeWuRyz5">https://goo.gl/maps/GMGbFJHAfEkeWuRyz5</a>	90.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
525.0	Parkes	Newell Highway onto Thomas Street <a href="https://goo.gl/maps/fSnFVWPr78RePSTz9">https://goo.gl/maps/fSnFVWPr78RePSTz9</a>	Length: 55 metres Width: 6.5 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
527.0	Parkes	Thomas Street onto Moulden Street <a href="https://goo.gl/maps/HpYrewcx8BHRUmf8">https://goo.gl/maps/HpYrewcx8BHRUmf8</a>	Length: 55 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
527.4	Parkes	Moulden Street onto Back Trundle Road <a href="https://goo.gl/maps/1JA2hh5EMZ3G3QfS9">https://goo.gl/maps/1JA2hh5EMZ3G3QfS9</a>	Length: 55 metres Width: 6.5 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
527.5	Parkes	Back Trundle Road onto Ross Road <a href="https://goo.gl/maps/wTLkjNycVjLWBSuGA">https://goo.gl/maps/wTLkjNycVjLWBSuGA</a>	Length: 55 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
527.8	Parkes	Ross Road onto Henry Parkes Way <a href="https://goo.gl/maps/UKvs2OekwwFuP6oS8">https://goo.gl/maps/UKvs2OekwwFuP6oS8</a>	Length: 55 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
528.0	Parkes	Henry Parkes Way onto Westlime Road <a href="https://goo.gl/maps/UK2nuLS7xvfv5dt6">https://goo.gl/maps/UK2nuLS7xvfv5dt6</a>	Length: 55 metres Width: 6.5 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
529.0	Parkes	Westlime Road onto Hartigan Ave <a href="https://goo.gl/maps/XtKgPrWcZHY3im65A">https://goo.gl/maps/XtKgPrWcZHY3im65A</a>	Length: 55 metres Width: 6.5 Metres	Travel directly ahead	No problems with this section of road.
530.0	Parkes	Hartigan Avenue under traffic signal <a href="https://goo.gl/maps/sQxVxzZivbDX7E3j6">https://goo.gl/maps/sQxVxzZivbDX7E3j6</a>	Height: Left: 5.5 metres	Travel around the traffic signal on the incorrect side of the road.	Traffic signal is too low. Pass on right hand side.

KM index	Location	Section of road	Current clearance	Procedure	Notes
532.0	Parkes	Hartigan Ave onto the Newell Highway <a href="https://goo.gl/maps/y3rabftt4HGreX9e6">https://goo.gl/maps/y3rabftt4HGreX9e6</a>	Length: 55 metres Width: 6.5 Metres	Travel directly ahead	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
533.0	Parkes	Newell Highway over rail crossing <a href="https://goo.gl/maps/7tSoLjFManXyKV3T9">https://goo.gl/maps/7tSoLjFManXyKV3T9</a>	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
535.0	Parkes	Newell Highway over rail crossing <a href="https://goo.gl/maps/Kxa3shUCMiuKe2sX7">https://goo.gl/maps/Kxa3shUCMiuKe2sX7</a>	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
542.0	Tichborne	Newell Highway over rail crossing <a href="https://goo.gl/maps/qxYUZLLe3jsCEJgD7">https://goo.gl/maps/qxYUZLLe3jsCEJgD7</a>	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
549.0	Daroobalgie rest area	Newell Highway <a href="https://goo.gl/maps/swec16PWb1N8ZbUR7">https://goo.gl/maps/swec16PWb1N8ZbUR7</a>	200.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
563.0	Forbes	Newell Highway intersection with Dowling Street <a href="https://goo.gl/maps/DqkvxH4qtWnXvLJ26">https://goo.gl/maps/DqkvxH4qtWnXvLJ26</a>	Length: 45 metres Width: 6.0 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
563.2	Forbes	Newell Highway <a href="https://goo.gl/maps/Hsmjs9pqvZ5UYFAH7">https://goo.gl/maps/Hsmjs9pqvZ5UYFAH7</a>	100.0 x 6.5 metres	Parking Bay	Suitable parking for Fatigue breaks.
568.0	Forbes	Newell Highway under safety Cam <a href="https://goo.gl/maps/hUdv6YJunC9vfoxF7">https://goo.gl/maps/hUdv6YJunC9vfoxF7</a>	Height: Right: 6.4 metres	Travel directly ahead on the correct side	No problems with this section of road.
631.0	Marsden	Newell Highway under safety Cam <a href="https://goo.gl/maps/fRpbRoXfup29Swx6">https://goo.gl/maps/fRpbRoXfup29Swx6</a>	Height: Right: 6.9 metres	Travel directly ahead on the correct side	No problems with this section of road.
632.0	Marsden rest area	Newell Highway <a href="https://goo.gl/maps/AfAfr2wuNTjQMdJKT8">https://goo.gl/maps/AfAfr2wuNTjQMdJKT8</a>	200.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
662.0	Wyalong	Newell Highway under safety Cam <a href="https://goo.gl/maps/sudP4qYXPWbDB6sL6">https://goo.gl/maps/sudP4qYXPWbDB6sL6</a>	Height: Centre: 6.2 metres	Travel directly ahead on the correct side	No problems with this section of road.
664.0	West Wyalong	Newell Highway onto Compton Road <a href="https://goo.gl/maps/PeM4uWq5hLivZiPd8">https://goo.gl/maps/PeM4uWq5hLivZiPd8</a>	Length: 55 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
666.5	West Wyalong	Compton Road onto Showground Road <a href="https://goo.gl/maps/hts5qARMMWZcvWZR7">https://goo.gl/maps/hts5qARMMWZcvWZR7</a>	Length: 50 metres Width: 6.5 Metres	left hand turn	No problems with this section of road.
667.0	West Wyalong	Compton Road over rail crossing <a href="https://goo.gl/maps/KQwsgDKEDASMPB9r8">https://goo.gl/maps/KQwsgDKEDASMPB9r8</a>	Length: 50 metres Width: 6.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.

KM index	Location	Section of road	Current clearance	Procedure	Notes
668.5	West Wyalong	Showground Road <a href="https://goo.gl/maps/C8GevkquVtpkHikFA">https://goo.gl/maps/C8GevkquVtpkHikFA</a>	150.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
669.0	West Wyalong	Showground Road onto the Newell Highway <a href="https://goo.gl/maps/yAyBdrZcocEeTBnz6">https://goo.gl/maps/yAyBdrZcocEeTBnz6</a>	Length: 50 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
687.0	Allena	Newell Highway over rail crossing <a href="https://goo.gl/maps/GMHsd5ynEFwzimmXA">https://goo.gl/maps/GMHsd5ynEFwzimmXA</a>	Length: 50 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
715.0	Mirrool	Newell Highway over rail crossing <a href="https://goo.gl/maps/kFkwMBL9nfKqL954A">https://goo.gl/maps/kFkwMBL9nfKqL954A</a>	Length: 50 metres Width: 6.5 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
750.0	Ardlethan rest area	Newell Highway <a href="https://goo.gl/maps/Na3rzBt25sMnsBya6">https://goo.gl/maps/Na3rzBt25sMnsBya6</a>	200.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
789.0	Grong Grong rest area	Newell Highway <a href="https://goo.gl/maps/vBTyD3zJVMcbn6wy9">https://goo.gl/maps/vBTyD3zJVMcbn6wy9</a>	200.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
802.0	Narrandera	Newell Highway over rail bridge <a href="https://goo.gl/maps/YBWuYYyVoZfSUTJ37">https://goo.gl/maps/YBWuYYyVoZfSUTJ37</a>	Length: 50 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the bridge in the center of the road.
803.0	Narrandera	Newell Highway at Whitton Street <a href="https://goo.gl/maps/EXcuuBeMsXdhVDtm8">https://goo.gl/maps/EXcuuBeMsXdhVDtm8</a>	Length: 50 metres Width: 7.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
803.0 to 804.0	Narrandera	Newell Highway (Cadell St) <a href="https://goo.gl/maps/Z3ntasM9sG3naB5A8">https://goo.gl/maps/Z3ntasM9sG3naB5A8</a>	Length: 50 metres Width: 7.5 Metres	Travel directly ahead	Trees to be trimmed
805.0	Narrandera	Newell Highway onto Sturt Highway <a href="https://goo.gl/maps/uFiCyhp9uF147Wie8">https://goo.gl/maps/uFiCyhp9uF147Wie8</a>	Length: 80 metres Width: 7.5 Metres	Left hand turn	No problems with this section of road.
825.0	Sandigo	Sturt Highway onto Sandigo Road <a href="https://goo.gl/maps/c3ZDZEj78aMwmqEh8">https://goo.gl/maps/c3ZDZEj78aMwmqEh8</a>	Length: 60 metres Width: 7.0 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
825.0 to 826.0	Sandigo	Sandigo Road <a href="https://goo.gl/maps/DMGEho8QouQxWxiH7">https://goo.gl/maps/DMGEho8QouQxWxiH7</a>	Width: 6.5 Metres	Travel directly ahead	Sandigo Road has been recently sealed and is in good condition.
826.0	Sandigo	Sandigo Road into Muntz Road <a href="https://goo.gl/maps/WERjz7kPiHWLPRsP6">https://goo.gl/maps/WERjz7kPiHWLPRsP6</a>	Length: 40 metres Width: 6.0 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.

KM index	Location	Section of road	Current clearance	Procedure	Notes
826.0 to 8238.0	Sandigo	Muntz Road <a href="https://goo.gl/maps/tTfFuMmCxNXziRb56">https://goo.gl/maps/tTfFuMmCxNXziRb56</a>	Width: 6.5 Metres	Travel directly ahead	This road is gravel and in average condition. Load to travel at no more than 10 km's per hour for this section of road.
828.0	Sandigo	Muntz Road into Avonleigh Solar farm <a href="https://goo.gl/maps/R3T3az3oQiSRg6GV7">https://goo.gl/maps/R3T3az3oQiSRg6GV7</a>	Length: 40 metres Width: 6.0 Metres	Right hand turn	Site to make a suitable entrance for the swept path of this load. Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.

**0.0 Km's: Mayfield #4 berth onto Selwyn Street at Mayfield.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/afLwPYKuNdm>

**COMPANY PILOT 1:** Warn all eastbound traffic on Selwyn Street.

**COMPANY PILOT 2:** Warn all eastbound traffic on Selwyn Street.

**COMPANY PILOT 3:** Warn all westbound traffic on Selwyn Street.

**COMPANY PILOT 4:** Stay 50 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from the port access road onto Selwyn Street.

**ROAD MODIFICATIONS:** Nil.



**1.3 Km's: Selwyn Street onto Industrial Drive at Mayfield.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/qXeHvBtCp4D2>

**COMPANY PILOT 1:** Warn all southbound traffic on Industrial Drive.

**COMPANY PILOT 2:** Warn all eastbound traffic on George Street.

**COMPANY PILOT 3:** Warn all eastbound traffic on Selwyn Street.

**COMPANY PILOT 4:** Stay 50 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from Selwyn Street onto Industrial Drive via George Street.

**ROAD MODIFICATIONS:** Nil.

**5.5 Km's: Industrial Drive onto Maitland Road at Mayfield West.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/Kn49dhWG2qG2>

**COMPANY PILOT 1:** Warn all southbound traffic on Maitland Road.

**COMPANY PILOT 2:** Warn all southbound traffic on Maitland Road.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from Industrial Drive onto Maitland Road.

**ROAD MODIFICATIONS:** Nil.



**8.0 Km's:** Maitland Road crossover at the intersection of the Newcastle Inner City bypass at Sandgate.

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/meQGKpGdRuvCTPgr7>

**COMPANY PILOT 1:** Warn all southbound traffic on Maitland Road.

**COMPANY PILOT 2:** Warn all southbound traffic on Maitland Road.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 50 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load is to cross to incorrect side (Southbound lanes) of Maitland Road at the intersection of the Inner-City Bypass. Then travel on the incorrect side (Southbound Lanes) of Maitland Road through to Old Maitland Road.

**ROAD MODIFICATIONS:** Nil.

**8.4 Km's: Maitland Road onto Old Maitland Road at Sandgate.**

Image 1:



GPS LINK FOR SECTION OF ROAD: <https://goo.gl/maps/RGSB79x8xbvj4wqe6>

**COMPANY PILOT 1:** Warn all traffic in Old Maitland Road.

**COMPANY PILOT 2:** Warn all southbound traffic on Maitland Road.

**COMPANY PILOT 3:** Warn all northbound traffic on Maitland Road.

**COMPANY PILOT 4:** Stay 50 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load is to turn from the southbound lanes on Maitland Road into Old Maitland Road.

**ROAD MODIFICATIONS:** Nil.



**8.5 Km's: Old Maitland Road onto Maitland Road at Sandgate.**

Image 1:



GPS LINK FOR SECTION OF ROAD: <https://goo.gl/maps/MHtTKSrgbtgGC4T37>

**COMPANY PILOT 1:** Warn all northbound traffic on Maitland Road.

**COMPANY PILOT 2:** Warn all southbound traffic on Maitland Road.

**COMPANY PILOT 3:** Warn all northbound traffic on Maitland Road.

**COMPANY PILOT 4:** Warn all traffic in Old Maitland Road.

**PINCHPOINT PROCEDURE:** The load is to reverse back onto the Southbound lanes of Maitland Road, before travelling south on the correct side of Maitland Road towards the Inner-City bypass.

**ROAD MODIFICATIONS:** Nil.



**9.0 Km's: Maitland Road onto Newcastle Inner City Bypass at Sandgate.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/WR97pBUPiG7ULd757>

**COMPANY PILOT 1:** Warn all Northbound traffic on Newcastle Inner City Bypass.

**COMPANY PILOT 2:** Warn all northbound traffic on Maitland Road.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

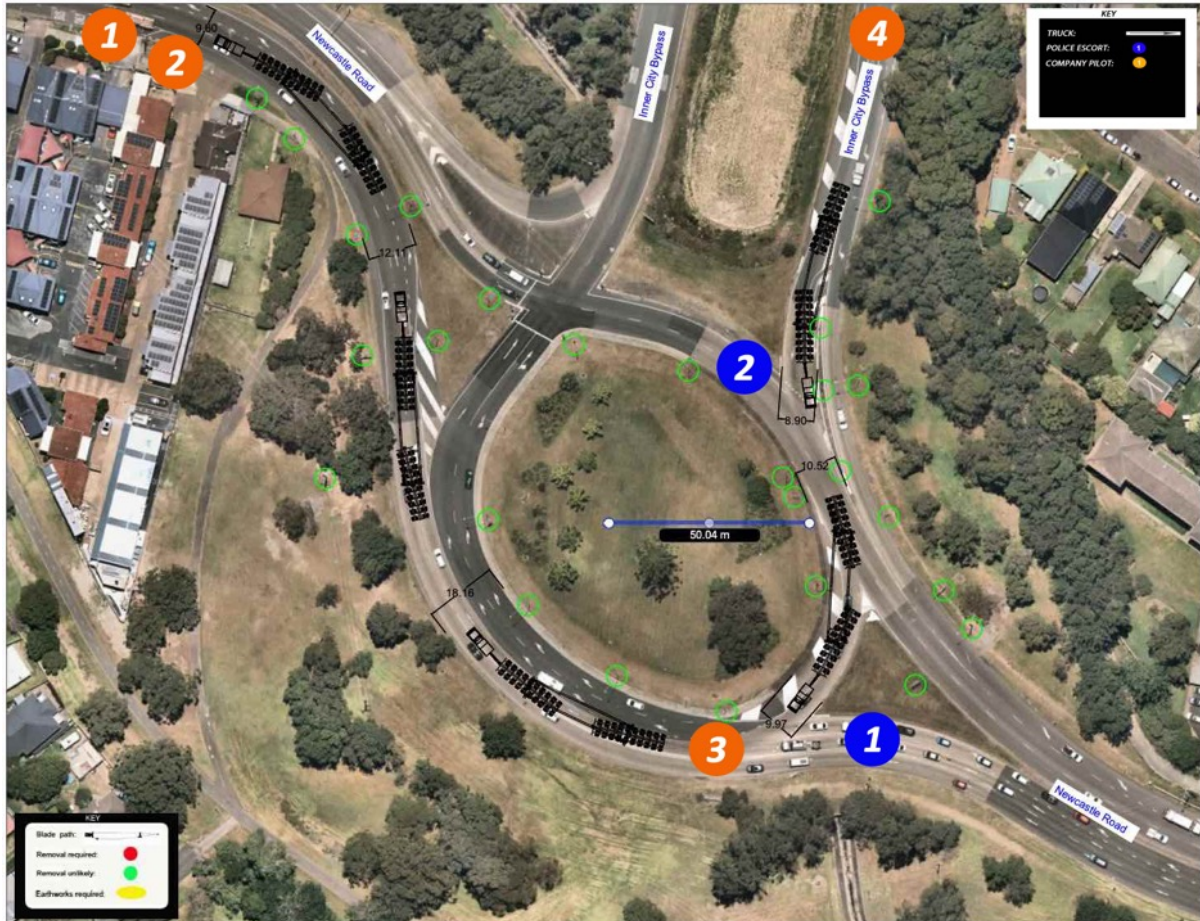
**COMPANY PILOT 4:** Stay 50 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from Maitland Road onto Sandgate Road.

**ROAD MODIFICATIONS:** Nil.

**14.0 Km's: Newcastle Inner City Bypass onto Newcastle Road at Jesmond.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/1MUmjNyydDakRZx6>

**COMPANY PILOT 1:** Warn all eastbound traffic on Newcastle Road.

**COMPANY PILOT 2:** Warn all eastbound traffic on Newcastle Road.

**COMPANY PILOT 3:** Warn all westbound traffic on Newcastle Road.

**COMPANY PILOT 4:** Stay 50 metres behind the load and warn all traffic.

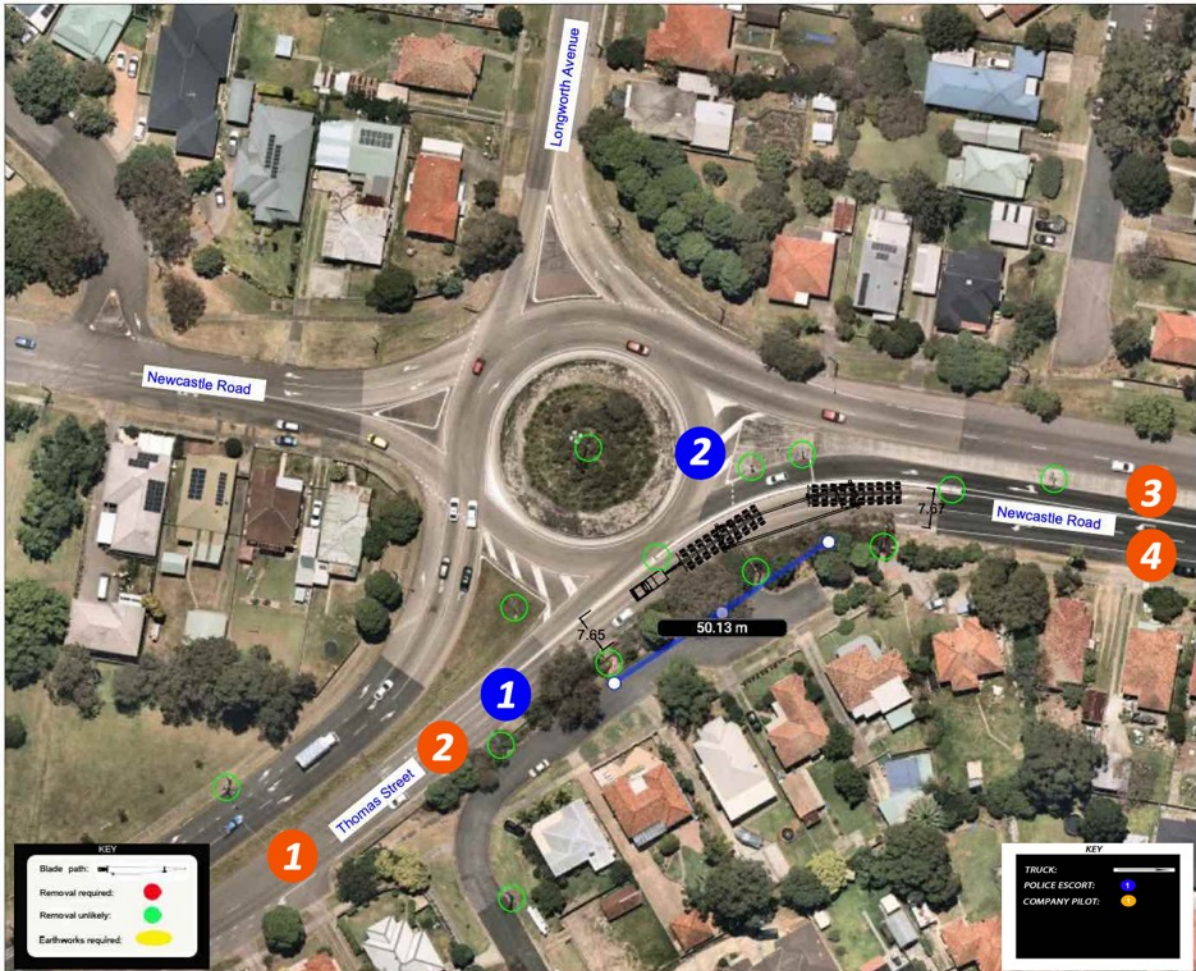
**PINCHPOINT PROCEDURE:** Right hand turn at the roundabout before taking the second exit onto Newcastle Road

**ROAD MODIFICATIONS:** Nil.



**15.5 Km's: Newcastle Road onto Thomas Street at Wallsend.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/1DCZxPpZT41RFd8w7>

**COMPANY PILOT 1:** Warn all eastbound traffic on Newcastle Link Road.

**COMPANY PILOT 2:** Warn all eastbound traffic on Newcastle Link Road.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Left hand bend from Newcastle Road onto Thomas Street.

**ROAD MODIFICATIONS:** Nil.



**19.0 Km's: Newcastle Link Road intersection of Transfield Avenue at Wallsend.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/noHnEkQTa641xHT49>

**COMPANY PILOT 1:** Warn all eastbound traffic on Newcastle Link Road.

**COMPANY PILOT 2:** Warn all westbound traffic on Newcastle Link Road.

**COMPANY PILOT 3:** Warn all traffic in Transfield Avenue.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Travel directly ahead through the roundabout.

**ROAD MODIFICATIONS:** Nil.



**21.0 Km's: Newcastle Link Road intersection of Minmi Road at Cameron Park.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/mXYajNbe93622tcLA>

**COMPANY PILOT 1:** Warn all eastbound traffic on Newcastle Link Road.

**COMPANY PILOT 2:** Warn all eastbound traffic on Newcastle Link Road.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Travel directly ahead through the roundabout.

**ROAD MODIFICATIONS:** Nil.



**72.0 Km's: New England Highway onto the Golden Highway at Whittingham.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/nAnfkYfeUn42>

**COMPANY PILOT 1:** Warn all eastbound traffic on the New England Highway.

**COMPANY PILOT 2:** Warn all eastbound traffic on the Golden Highway.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn left from the New England Highway onto the Golden Highway on the correct side of the road.

**ROAD MODIFICATIONS:** Nil.



**82.4 Km's: Golden Highway at Putty Road intersection at Mount Thorley.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/7hQdEmK1EgE2>

**COMPANY PILOT 1:** Warn all eastbound traffic on the Golden Highway.

**COMPANY PILOT 2:** Warn all eastbound traffic on the Golden Highway.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

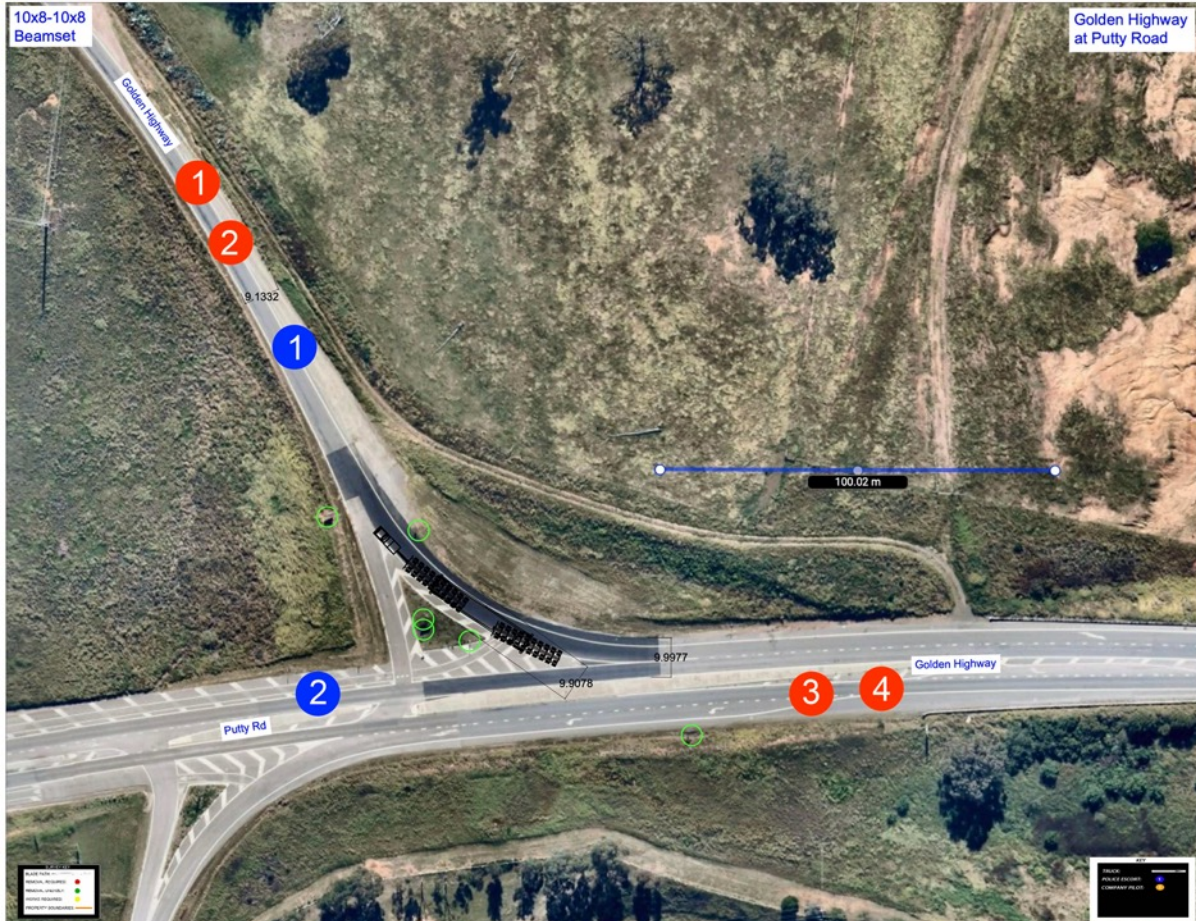
**PINCHPOINT PROCEDURE:** Load to turn left from the Golden Highway onto the Golden Highway on the correct side of the road.

**ROAD MODIFICATIONS:** Nil.



**85.8 Km's: Golden Highway at Putty Road intersection at Mount Thorley.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/QS9quvSyHYWaFH0X9>

**COMPANY PILOT 1:** Warn all eastbound traffic on the Golden Highway.

**COMPANY PILOT 2:** Warn all eastbound traffic on the Golden Highway.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right onto the incorrect side of the Golden Highway. Pilots and police will need to travel 200 metres west of this intersection and warn/hold all oncoming traffic.

**ROAD MODIFICATIONS:** Nil.



**137.0 Km's: Golden Highway at Denman Road intersection at Denman.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/sf4PNnycxB32>

**COMPANY PILOT 1:** Warn all eastbound traffic on the Golden Highway.

**COMPANY PILOT 2:** Warn all eastbound traffic on the Golden Highway.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

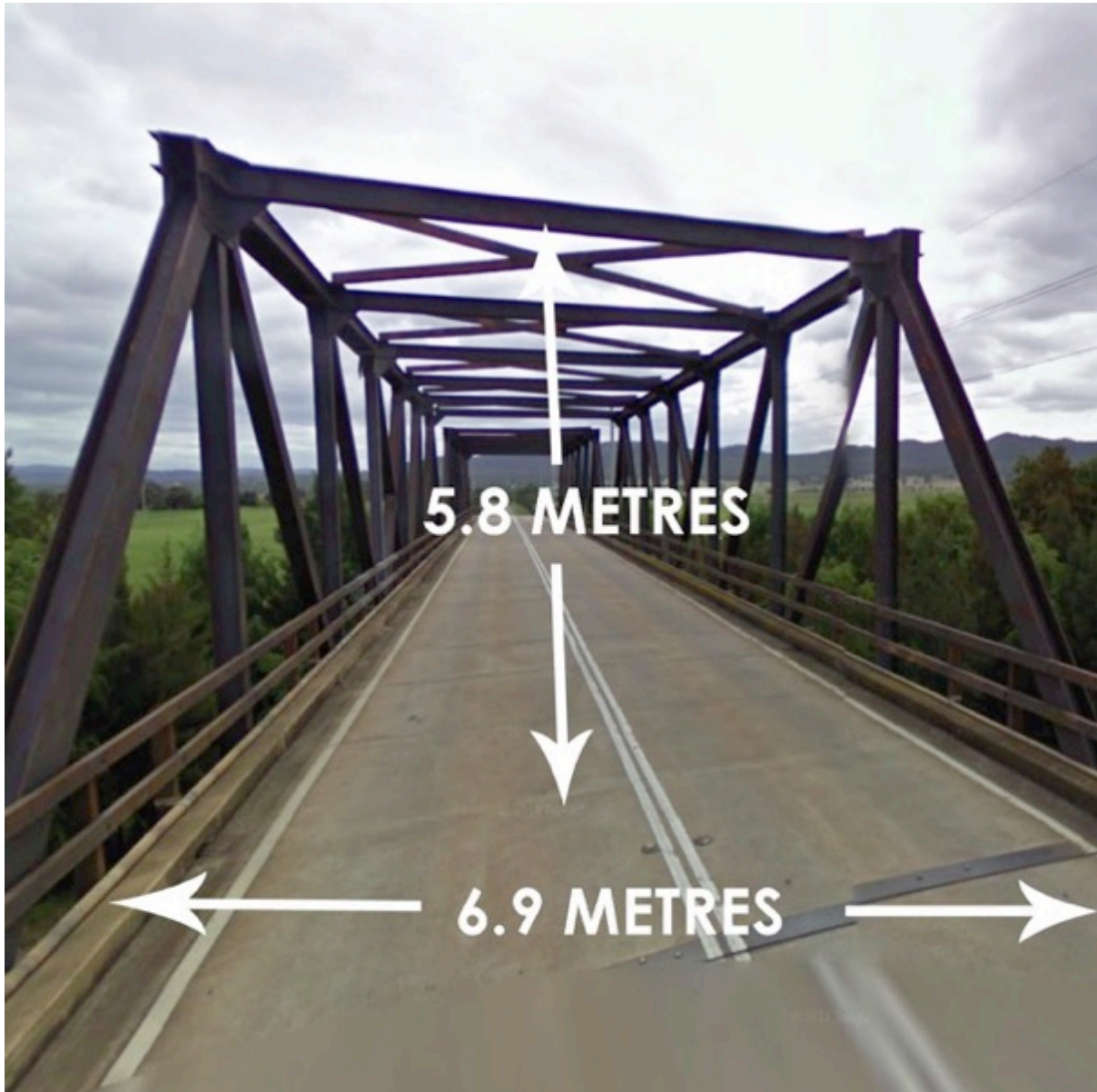
**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn left from the Golden Highway onto the Golden Highway while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.



**138.0 Km's: Denman Bridge.**



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/UToXyFe3QKu>

**PINCHPOINT PROCEDURE:** Travel over the bridge at no more than 10 km's p/hr and on the centre line of the structure.

No other vehicles are to be on the structure as at the same time as the load.

Load to hydraulically lower to 5.5 metres before crossing this structure.

**ROAD MODIFICATIONS:** Nil.

**372.0 Km's: Golden Highway onto Boothenna Road at Dubbo.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/TJLi5W4ir11ejgtb6>

**COMPANY PILOT 1:** Warn all eastbound traffic on Boothenna Road.

**COMPANY PILOT 2:** Warn all eastbound traffic on the Golden Highway.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from the Golden Highway onto Boothenna Road while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.



**403.0 Km's: Bunglegumbie Road onto the Mitchell Highway at Dubbo.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/jCWqmaQsd3fChp837>

**COMPANY PILOT 1:** Warn all eastbound traffic on the Mitchell Highway.

**COMPANY PILOT 2:** Warn all westbound traffic on the Mitchell Highway.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from Bunglegumbie Road onto the Mitchell Highway while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.



**423.0 Km's: Mitchell Highway onto Manildra Street at Narromine.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/WPhQahdAKGjRSNvy8>

**COMPANY PILOT 1:** Warn all traffic 150 Metres in front of the load.

**COMPANY PILOT 2:** Warn all traffic 100 Metres in front of the load.

**COMPANY PILOT 3:** Warn all traffic 50 Metres in front of the load.

**COMPANY PILOT 4:** Stay 500 metres behind the load and warn all traffic.

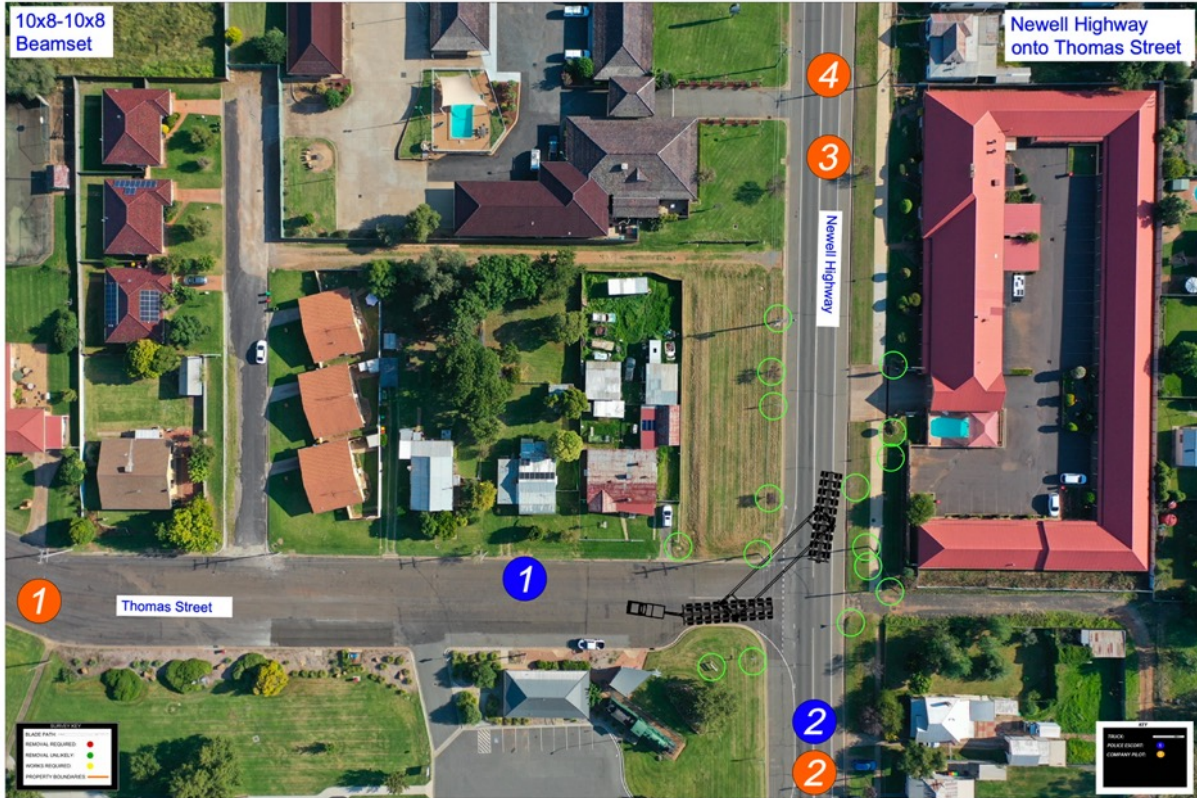
**PINCHPOINT PROCEDURE:** Load to turn left from the Mitchell Highway onto Manildra Street before crossing onto Algalah Street while crossing onto the incorrect side of the road on several intersections.

**ROAD MODIFICATIONS:** Nil.



**525.0 Km's: Newell Highway onto Thomas Street at Parkes.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/fSnFVWPr78RePSTz9>

**COMPANY PILOT 1:** Warn all eastbound traffic on Thomas Street.

**COMPANY PILOT 2:** Warn all northbound traffic on the Newell Highway.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from the Newell Highway onto Thomas Street while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.

**527.4 Km's: Moulden Street onto Back Trundle Road onto Ross Road at Parkes.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/1JA2hh5EMZ3G3Qfs9>

**COMPANY PILOT 1:** Warn all northbound traffic on Ross Road.

**COMPANY PILOT 2:** Warn all northbound traffic on Ross Road.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right than left from Moulden Street onto Ross Road via Back Trundle Road while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.



**527.8 Km's: Ross Road onto Henry Parkes Way at Parkes.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/UKvs2QekwwFuP6oS8>

**COMPANY PILOT 1:** Warn all westbound traffic on Henry Parkes Way.

**COMPANY PILOT 2:** Warn all eastbound traffic on Henry Parkes Way.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn left from Ross Road onto Henry Parkes Way.

**ROAD MODIFICATIONS:** Nil.



**528.0 Km's: Henry Parkes Way onto Westlime Road at Parkes.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/QhZmTtpL1vNkUE7i8>

**COMPANY PILOT 1:** Warn all northbound traffic on Westlime Road.

**COMPANY PILOT 2:** Warn all westbound traffic on Henry Parkes Way.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from Henry Parkes Way onto Westlime Road while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.



**532.0 Km's: Hartigan Avenue onto the Newell Highway at Parkes.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/y3rabftt4HGReX9e6>

**COMPANY PILOT 1:** Warn all northbound traffic on the Newell Highway.

**COMPANY PILOT 2:** Warn all northbound traffic on the Newell Highway.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from Hartigan Avenue onto the Newell Highway while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.







**664.0 Km's: The Newell Highway onto Compton Road at West Wyalong.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/PeM4uWg5hLiyZiPd8>

**COMPANY PILOT 1:** Warn all northbound traffic on Compton Road.

**COMPANY PILOT 2:** Warn all northbound traffic on Compton Road.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn left from the Newell Highway onto Compton Road while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.

**666.5 Km's: Compton Road onto Showground Road at West Wyalong.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/hts5qARMMWZcvW7R7>

**COMPANY PILOT 1:** Warn all northbound traffic on Compton Road.

**COMPANY PILOT 2:** Warn all northbound traffic on Compton Road.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Dogleg turn from Compton Road onto Showground Road while crossing onto the incorrect side of the road. Rail protection officer may be required to travel over the rail crossing.

**ROAD MODIFICATIONS:** Nil.







**803.0 Km's: Whitton Street onto Cadell Street at Narrandera.**  
(Newell Highway)

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/EXcuuBeMsXdhVDtm8>

**COMPANY PILOT 1:** Warn all northbound traffic on Caddell Street.

**COMPANY PILOT 2:** Warn all northbound traffic on Caddell Street.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn left from Whitton Street onto Caddell Street while staying on the correct side of the road.

**ROAD MODIFICATIONS:** Nil.

**825.0 Km's: The Sturt Highway onto Sandigo Road at Sandigo.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/c3ZDZEj78aMwmqEh8>

**COMPANY PILOT 1:** Warn all northbound traffic on Sandigo Road.

**COMPANY PILOT 2:** Warn all westbound traffic on the Sturt Highway.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from the Sturt Highway onto Sandigo Road while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.



**826.0 Km's: Sandigo Road onto Muntz Road at Sandigo.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/WErjz7kPjHWLPRsP6>

**COMPANY PILOT 1:** Warn all eastbound traffic on Muntz Road.

**COMPANY PILOT 2:** Warn all eastbound traffic on Muntz Road.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from Sandigo Road onto Muntz Road while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.



**828.0 Km's: Muntz Road into Avonleigh Solar Access Road at Sandigo.**

Image 1:



**GPS LINK FOR SECTION OF ROAD:** <https://goo.gl/maps/R3T3az3oQiSRg6GV7>

**COMPANY PILOT 1:** Warn all eastbound traffic on Muntz Road.

**COMPANY PILOT 2:** Warn all eastbound traffic on Muntz Road.

**COMPANY PILOT 3:** Stay 50 metres behind the load and warn all traffic.

**COMPANY PILOT 4:** Stay 100 metres behind the load and warn all traffic.

**PINCHPOINT PROCEDURE:** Load to turn right from Muntz Road onto Avonleigh Solar Access Road while crossing onto the incorrect side of the road.

**ROAD MODIFICATIONS:** Nil.

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## 15.0 Pinch Points

The following are the pinch points on this route:

- **REGULAR ROUTE ASSESSMENTS:** Prior to the movement Rex J Andrews P/L is to contact TfNSW and local councils regarding any potential roadworks that road stakeholders would have taken place on the route during the proposed delivery dates. Driver/Supervisors are to have full contact details and communicate with these roadwork's managers while on route.
- **SWEPT PATH ANALYSIS:** This study shows all pinchpoint manoeuvres on route and is a guide to show possible arrangements for traffic control at each of the pinchpoints.
- **BRIDGE CROSSINGS:** The load is to travel over all structures as per the TfNSW bridge assessment for this movement. Load to take special caution at Denman Bridge and lower the load to 5.5 metres maximum before crossing this structure in the centre of both lanes.
- **NEWCASTLE:** The load will need to undertake a U-turn on Maitland Road at Sandgate. All personnel are to be tool boxed on the methodology of these procedures.
- **NARRENDERA:** Some tree pruning is required in Narrendera prior to the load departing Newcastle.

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### **PINCHPOINT PROCEDURES**

Whilst some pinch points are known along the route demonstrating a method of negotiating each individual hazard would be flawed as traffic conditions are constantly changing.

It is crucial that appropriate measures are applied to avoid impact to road users and road infrastructure, the chosen route has been assessed and the load is capable of navigating the route, however local traffic conditions can create pinch points.

A pinch point is an area identified by the lead pilot and relayed to the convoy as having the potential to interfere with the swept path of the load, pinch points can be created by road furnishings, roundabouts, narrow sections of road, roadkill, corners, road works, parked vehicles, damaged pavement, this list is not exhaustive.

For the purposes of this traffic management plan identified pinch points will follow the following protocol.

The lead pilot must travel a sufficient distance in front of the load so as to survey the swept path required for the load, this will allow sufficient time to relay back road conditions or choke points to allow the driver to halt the load before causing congestion to other road users.

In the event of parked vehicles or local traffic conditions preventing the load from safely navigating the permitted route, the load cannot proceed until it is safe to do so.

The lead pilot will warn all oncoming traffic of the impending load, when the way forward for the transporter is established as being clear the load may proceed.

If built up queued traffic is behind the load, ensure that an opportunity to allow this traffic to pass is taken at the first safe opportunity.

The procedure for crossing bridges is reliant on only the load being on the bridge during the crossing, this will require a concentrated effort from the escort team to ensure that all vehicular traffic both in front of and behind the load are warned of the hazard.

It is crucial that pinch points are discussed at the toolbox briefing and that all parties are aware of the protocols in place.

Drivers should familiarise themselves with the route including nominated bypasses for heavy vehicles along the route.

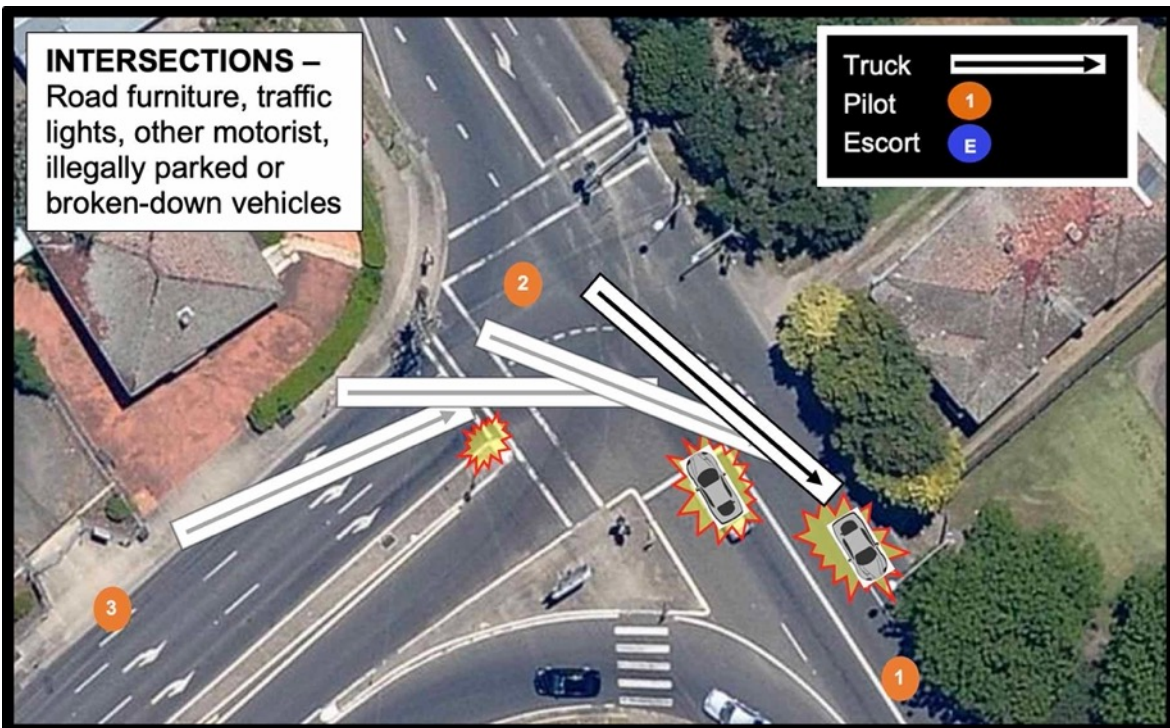
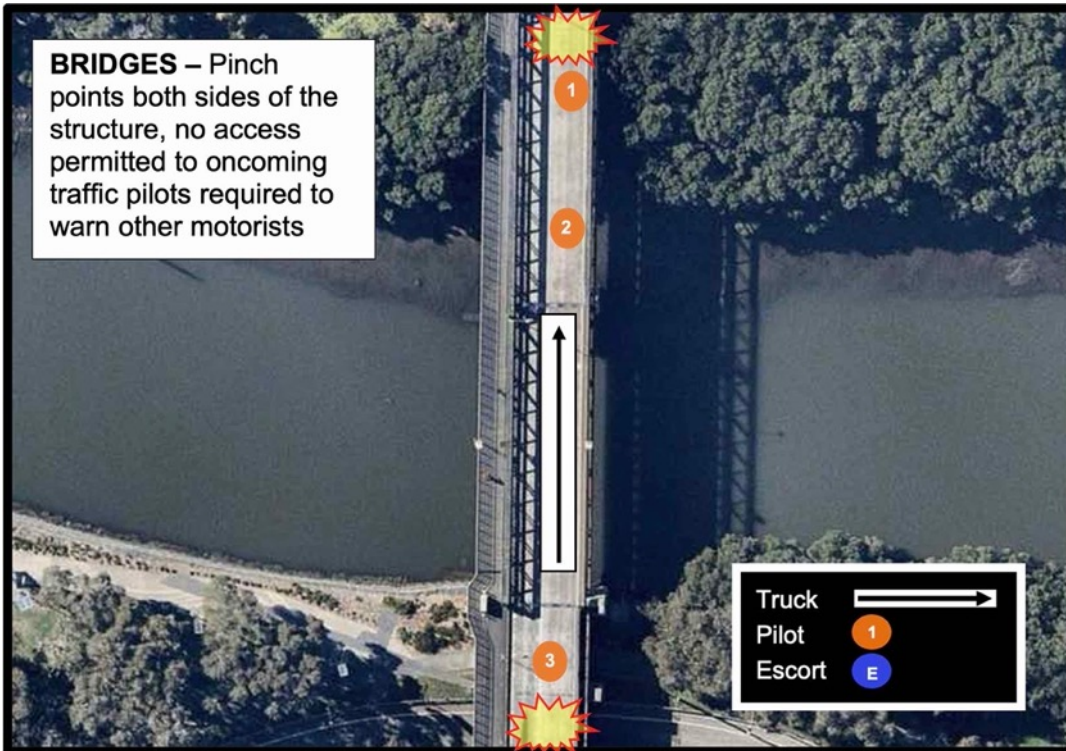
If there is any doubt as to the viability of accessing the permitted route the load must not continue until the way forward has been deemed appropriate.

For more detail analysis of coping with roadwork refer to section 11.

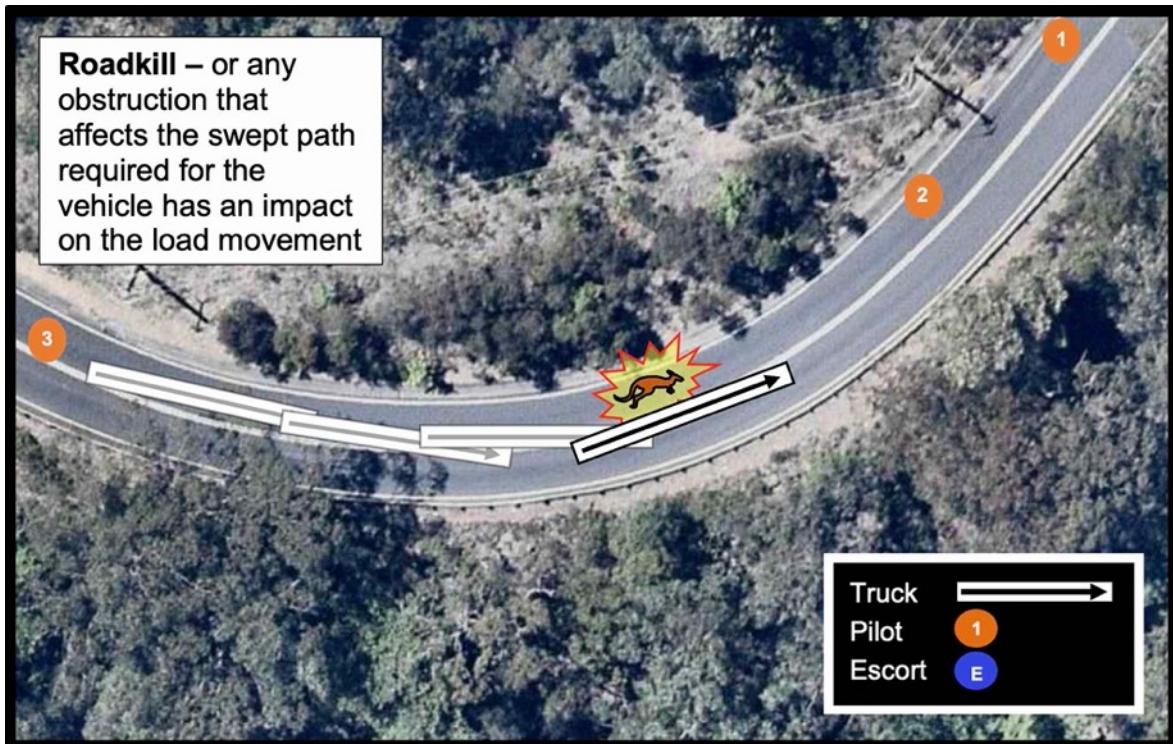


Examples of pinch points:







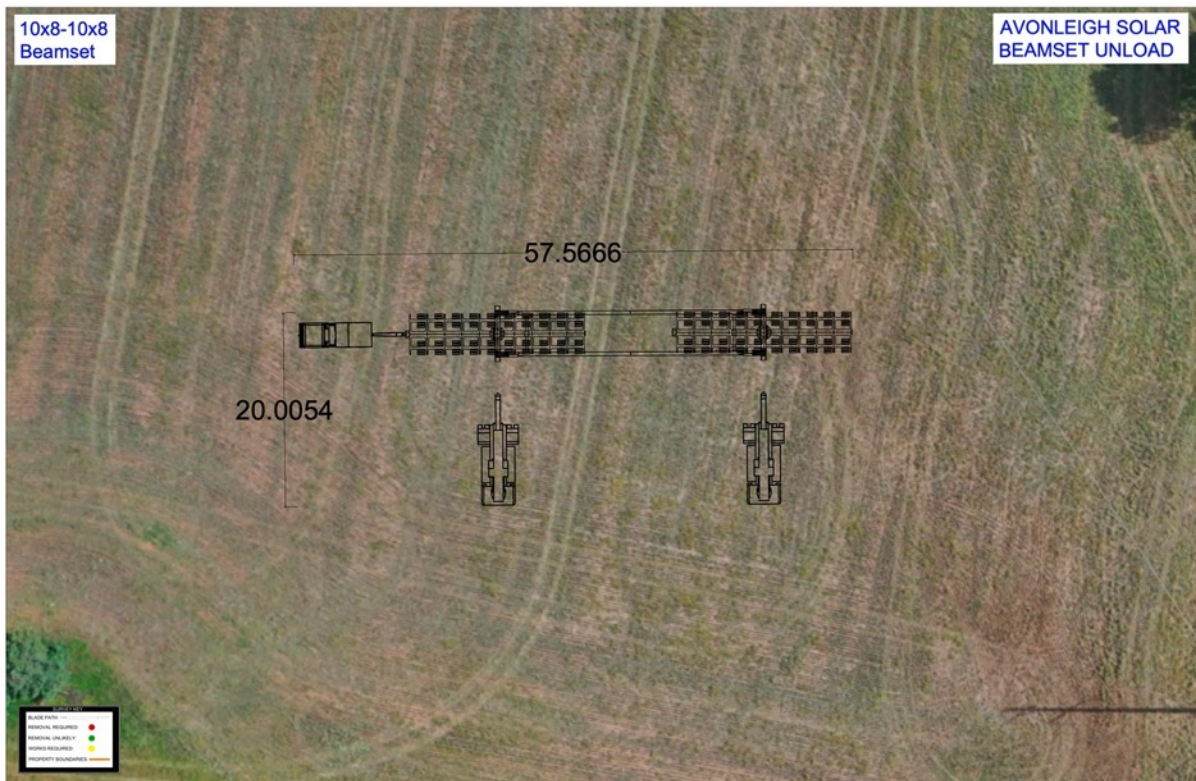




## 16.0 Beamset unload:

The beamset will need to be able to park parallel to the foundation, and enough room provided for 2 x 90T cranes to disassemble the beamset. Please see below image for an idea of the area required to undertake these works.

Image 1:





## 18.0 References:

Australian Load Restraint Guide  
Rex J Andrews P/L transport drawing  
Hyosung transformer drawing  
Rex J Andrews route survey #333 REV00  
Google Earth/Maps  
Nearmaps  
NHVAS Maintenance Management (NHVAS21193)  
NHVAS Basic Fatigue Management (NHVAS21193)





## Appendix H Proposed road and culvert upgrades

# GOULBURN RIVER SOLAR FARM

## WOLLARA ROAD

## ROAD UPGRADE


### ISSUED FOR INFORMATION

NUMBER	DESCRIPTION			REV
0305-DRG-00-GE-0001	GENERAL	COVER SHEET AND DRAWING INDEX	1 OF 1	A
0305-DRG-00-GE-0031	PAVEMENT	PAVEMENT DETAILS	1 OF 1	A
0305-DRG-00-GE-0051	ROAD	TYPICAL SECTIONS	1 OF 1	A
0305-DRG-00-PV-0101	PAVEMENT	PLAN	1 OF 4	A
0305-DRG-00-PV-0102	PAVEMENT	PLAN	2 OF 4	A
0305-DRG-00-PV-0103	PAVEMENT	PLAN	3 OF 4	A
0305-DRG-00-PV-0104	PAVEMENT	PLAN	4 OF 4	A

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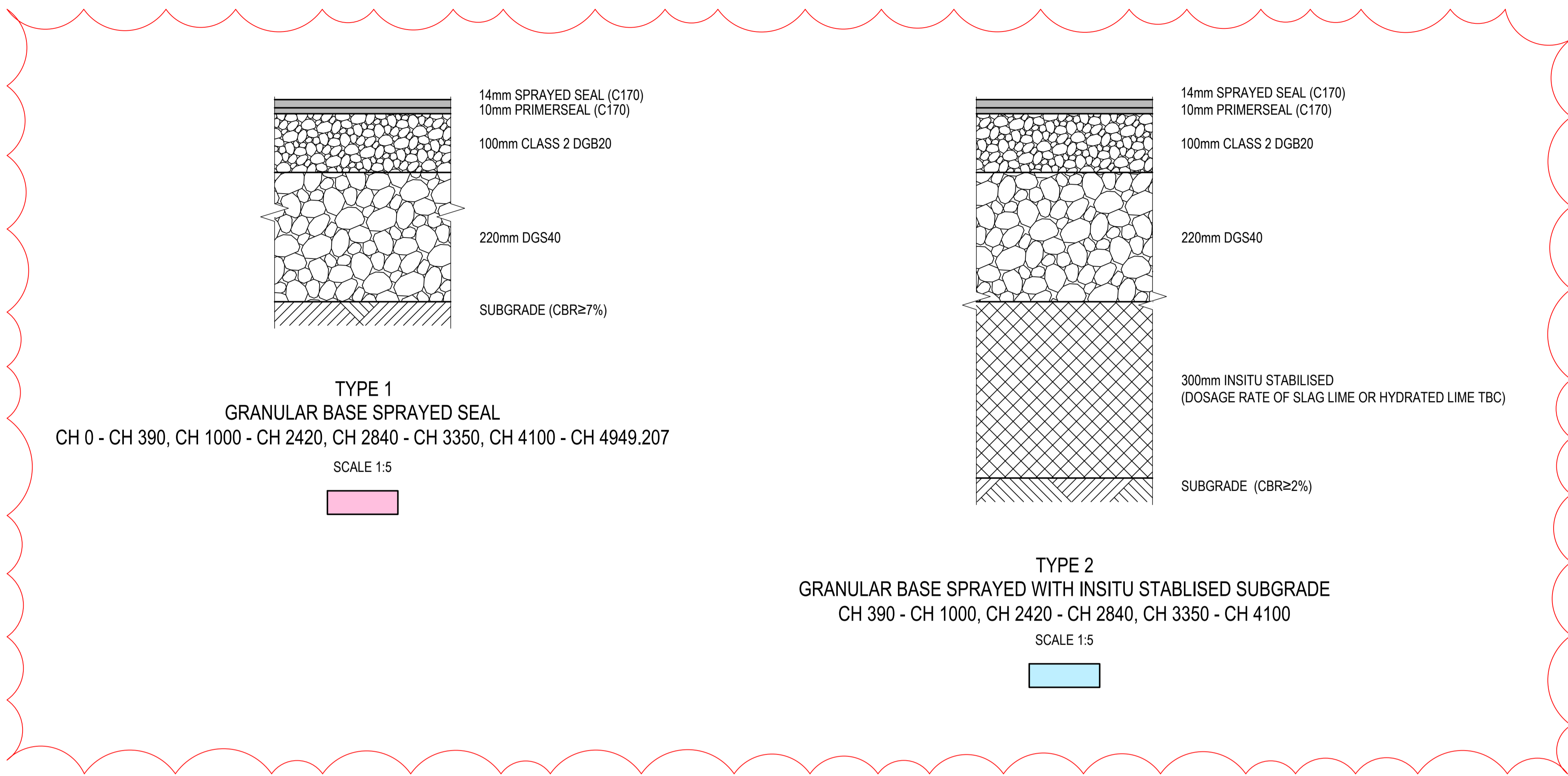
50mm ON A3 SIZE ORIGINAL

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EXTERNAL REFERENCE FILES				REV	DATE	AMENDMENT / REVISION DESCRIPTION			WVR No.	APPROVAL	SCALES ON A1 SIZE DRAWING			DESIGNER			CLIENT			SHEET 1 OF 1	
				A	20.09.22	ISSUED FOR INFORMATION			-	MD											
											DRAWN						K.MERCER			20.09.22	
											DRG CHECK						B.EVANS			20.09.22	
											DESIGN						B.DUNLOP			20.09.22	
											DESIGN CHECK						J.DeWIT			20.09.22	
											DESIGN MNGR			J.DeWIT			20.09.22				
											PROJECT MNGR			R.BANZON			20.09.22				
											CO-ORDINATE SYSTEM MGA ZONE 56 (GDA2020)			HEIGHT DATUM AHD							
																	DRAWING NUMBER 0305-DRG-00-GE-0001				
																	ISSUE STATUS FOR INFORMATION			SHEET No. 00-GE-0001	ISSUE A



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**HOLD** - SEE NOTE 1

- NOTES**
- PAVEMENT TYPES ARE SUBJECT TO GEOTECHNICAL INVESTIGATION AND ASSUMED BASED ON PAVEMENT REHABILITATION WORKS ON RINGWOOD ROAD COMPLETED IN 2021.

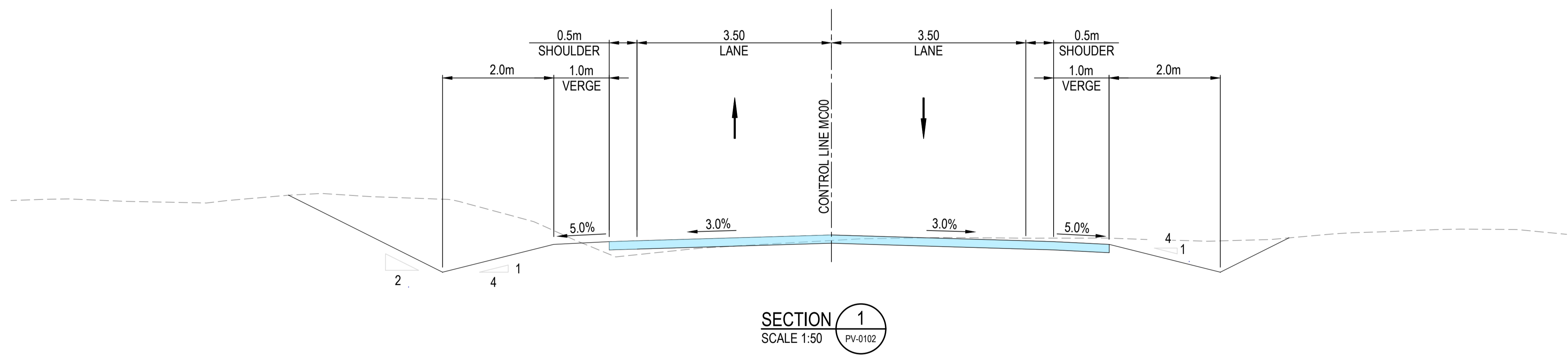
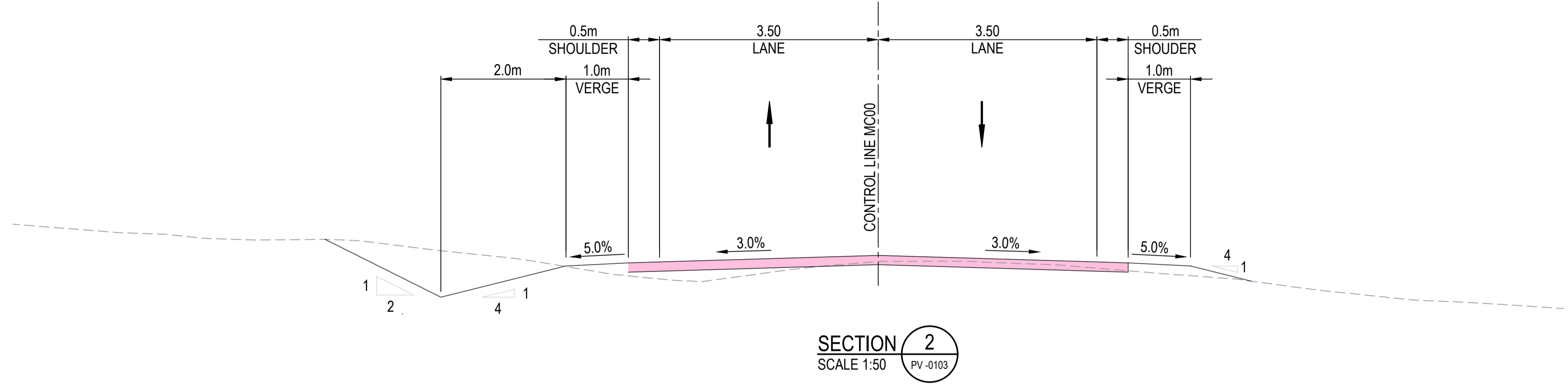
FOR INFORMATION ONLY

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											DESIGN MNGR J.DeWIT				ISSUE STATUS FOR INFORMATION			SHEET No. 00-GE-0031	ISSUE A	
											PROJECT MNGR R.BANZON									

**LEGEND**

---	EXISTING SURFACE
—	DESIGN SURFACE
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<span style="display:inline-block; width:15px; height:10px; background-color: #ADD8E6; border: 1px solid black;"></span>	PAVEMENT TYPE 2

**NOTE**  
 1. FOR PAVEMENT TYPE REFER TO 0305-DRG-00-GE-0031.



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EXTERNAL REFERENCE FILES				REV	DATE	AMENDMENT / REVISION DESCRIPTION			WVR No.	APPROVAL	SCALES ON A1 SIZE DRAWING			DESIGNER			CLIENT				
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										DESIGNER			ISSUE STATUS FOR INFORMATION								
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																ISSUE A					