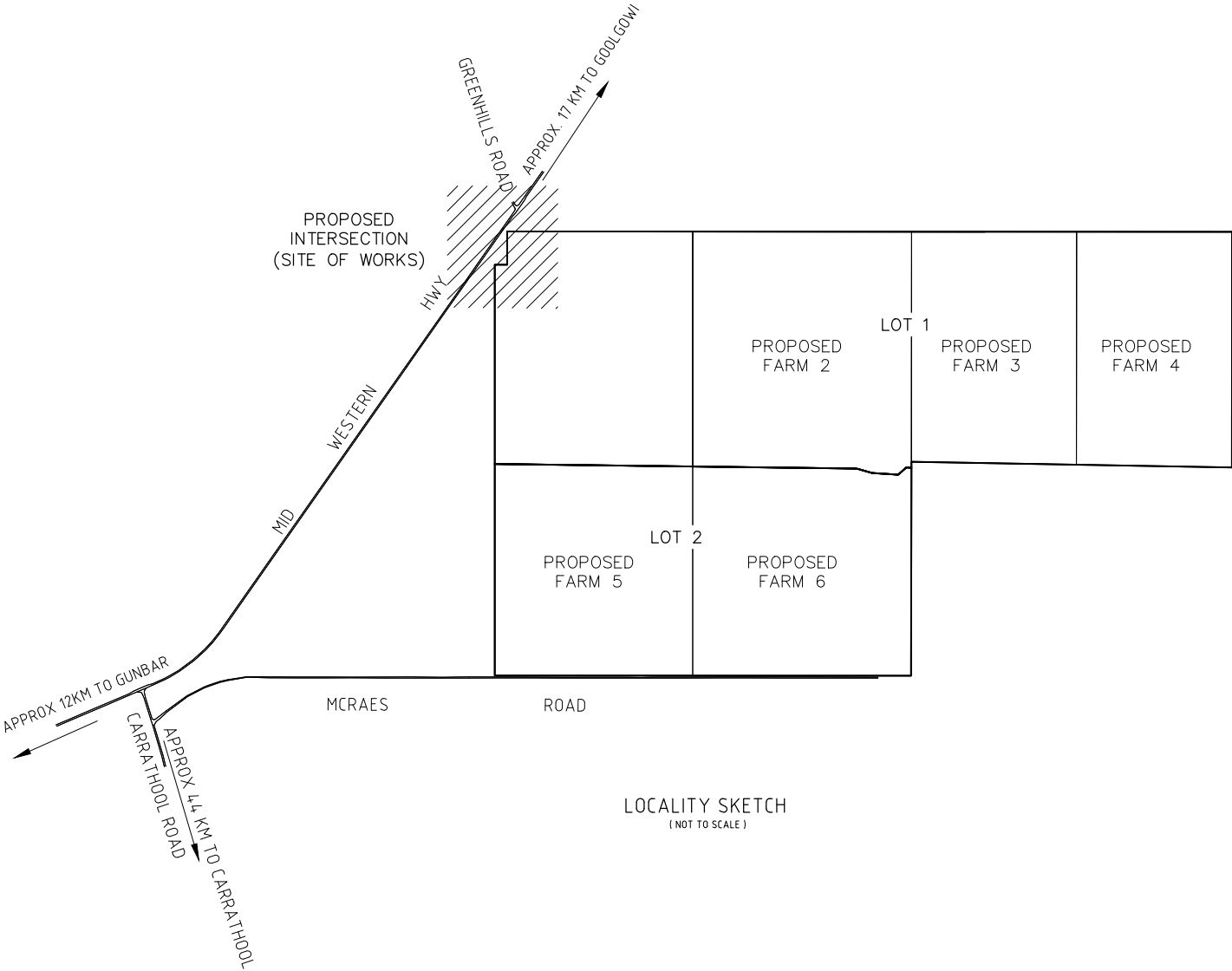
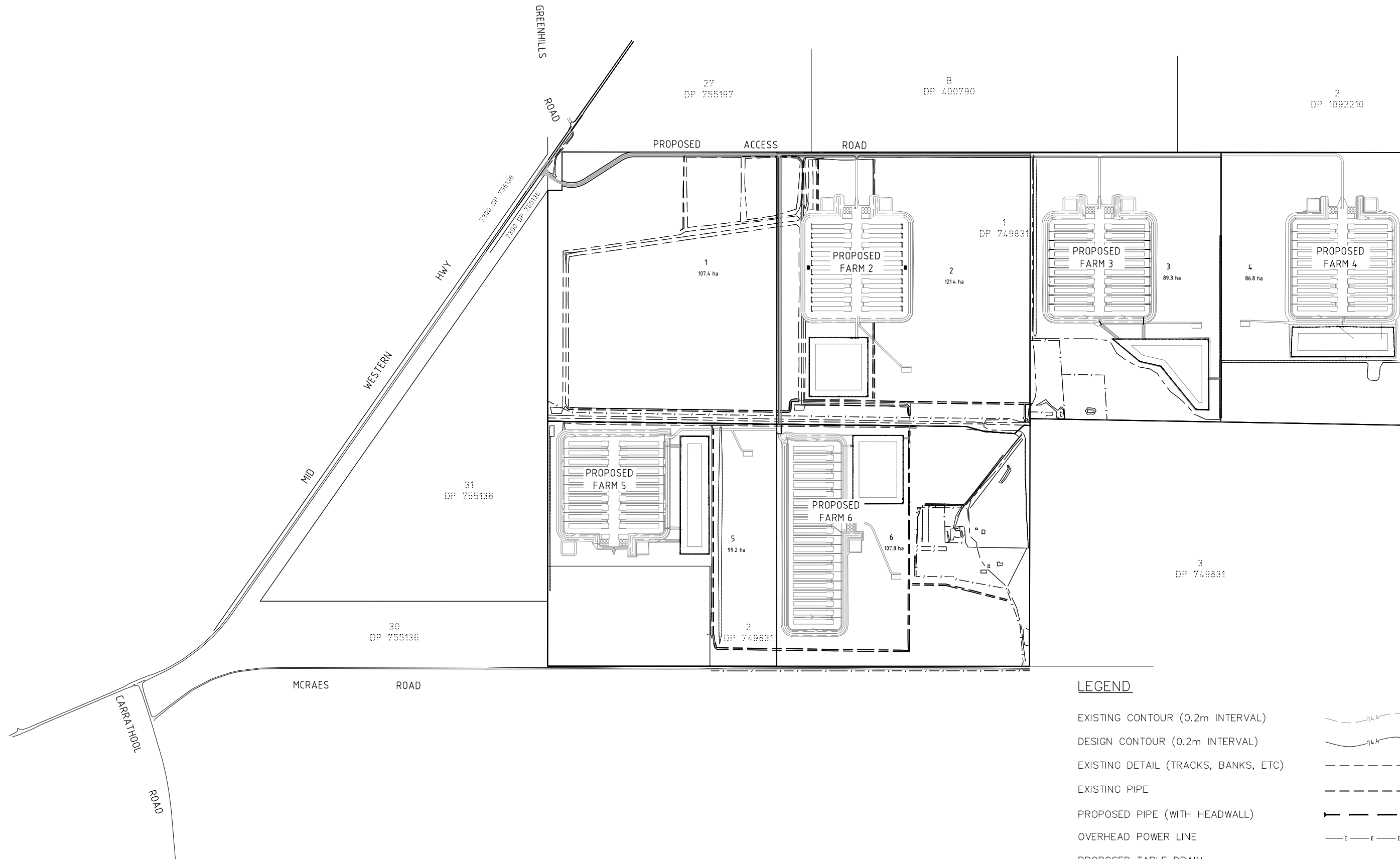


PROPOSED INTERSECTION
SERVICING POULTRY FARMS
CONCEPT INTERSECTION LAYOUT
LOT 1 IN DP 749831
MID WESTERN HWY, GOOLGOWI



Schedule of Drawings			
Sheet	File Number	Description	Revision
1	21800274	TITLE PAGE, LOCALITY SKETCH & TABLE OF CONTENTS	C
2	21800275	OVERALL DEVELOPMENT	C
3	21800276	PROPOSED INTERSECTION - AERIAL SHOWN	C
4	21800277	PROPOSED INTERSECTION - NO AERIAL	C
5	21800303	PROPOSED TURNING PATHS - ENTRY FROM NORTH	C
6	21800304	PROPOSED INTERSECTION - ENTRY FROM SOUTH	C
7	21800278	SISD - CARRATHOOL ROAD - AERIAL SHOWN	C
8	21800279	SISD - CARRATHOOL ROAD - NO AERIAL	C
9	21800280	SISD - PROPOSED ROAD - RIGHT - AERIAL SHOWN	C
10	21800281	SISD - PROPOSED ROAD - RIGHT - NO AERIAL	C
11	21800282	SISD - PROPOSED ROAD - LEFT - AERIAL SHOWN	C
12	21800283	SISD - PROPOSED INTERSECTION - LEFT NO AERIAL	C



LEGEND

EXISTING CONTOUR (0.2m INTERVAL)	
DESIGN CONTOUR (0.2m INTERVAL)	
EXISTING DETAIL (TRACKS, BANKS, ETC)	
EXISTING PIPE	
PROPOSED PIPE (WITH HEADWALL)	
OVERHEAD POWER LINE	
PROPOSED TABLE DRAIN	
EXTENT OF NEW BITUMEN	

REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
C	Revised for Compiled Submission	DS	DS	AV*	BL*	14/12/18*
B	Revised per Preliminary RMS Comment	DS	DS	-	-	29/11/17*
A	Original Issue	DS	DS	-	-	15/09/17*

* Denote the original signature and date when revision was issued.

TATTERSALL LANDER PTY LTD
DEVELOPMENT CONSULTANTS
ENGINEERING, SURVEYING & PLANNING
2 Bourke St. P.O.Box 580
RAYMOND TERRACE 2324
Fax (02) 49871733 Phone (02) 49871500

PROPOSED ACCESS TO MID WESTERN HIGHWAY
LOT 1 & 2 IN DP 749831
MID WESTERN HIGHWAY
GOOLGOWI

CLIENT: JAMES & CATHY MUSCAT

JOB No.: 215474

COMPUTER FILE : S:\Clients\2015\215474\Drawings\215474 - Intersection DA Design.dwg

COUNCIL CARRATHOOL	REFERENCE 21800275
PARISH WYCHEPROOF	SHEET SIZE A3
SCALE 1:16000	SHEET No. 2 of 12
DATE : 14/12/18	Plotted 12.54. 14/12/18

MINIMUM DECELERATION LANE LENGTH (AGR04A T5.2)

DESIGN SPEED OF APPROACH	DESIGN SPEED OF EXIT CURVE (km/h)	LENGTH OF DECELERATION (Including Taper, m)
100	30	140

NOTE:
- AGRD04A Section 5.3.1 STATES THAT IT IS GENERALLY ACCEPTABLE FOR HEAVY VEHICLES TO SLOW IN THE THROUGH LANE.
- HEAVY VEHICLES ARE ALSO SPEED LIMITED TO 100km/h IN NSW.
- FOR SMALLER VEHICLES APPROACHING AT A DESIGN SPEED OF APPROACH OF 120km/h A DECELERATION LENGTH OF 100m IS ALL THAT IS REQUIRED BY T8.2 FOR AN AUL(S) TURNING TREATMENT



C	Revised for Compiled Submission	DS	DS	AV*	BL*	14/12/18*
B	Revised per Preliminary RMS Comment	DS	DS	-	-	29/11/17*
A	Original Issue	DS	DS	-	-	15/09/17*
REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
* Denote the original signature and date when revision was issued.						

PLAN 1- PROPOSED INTERSECTION

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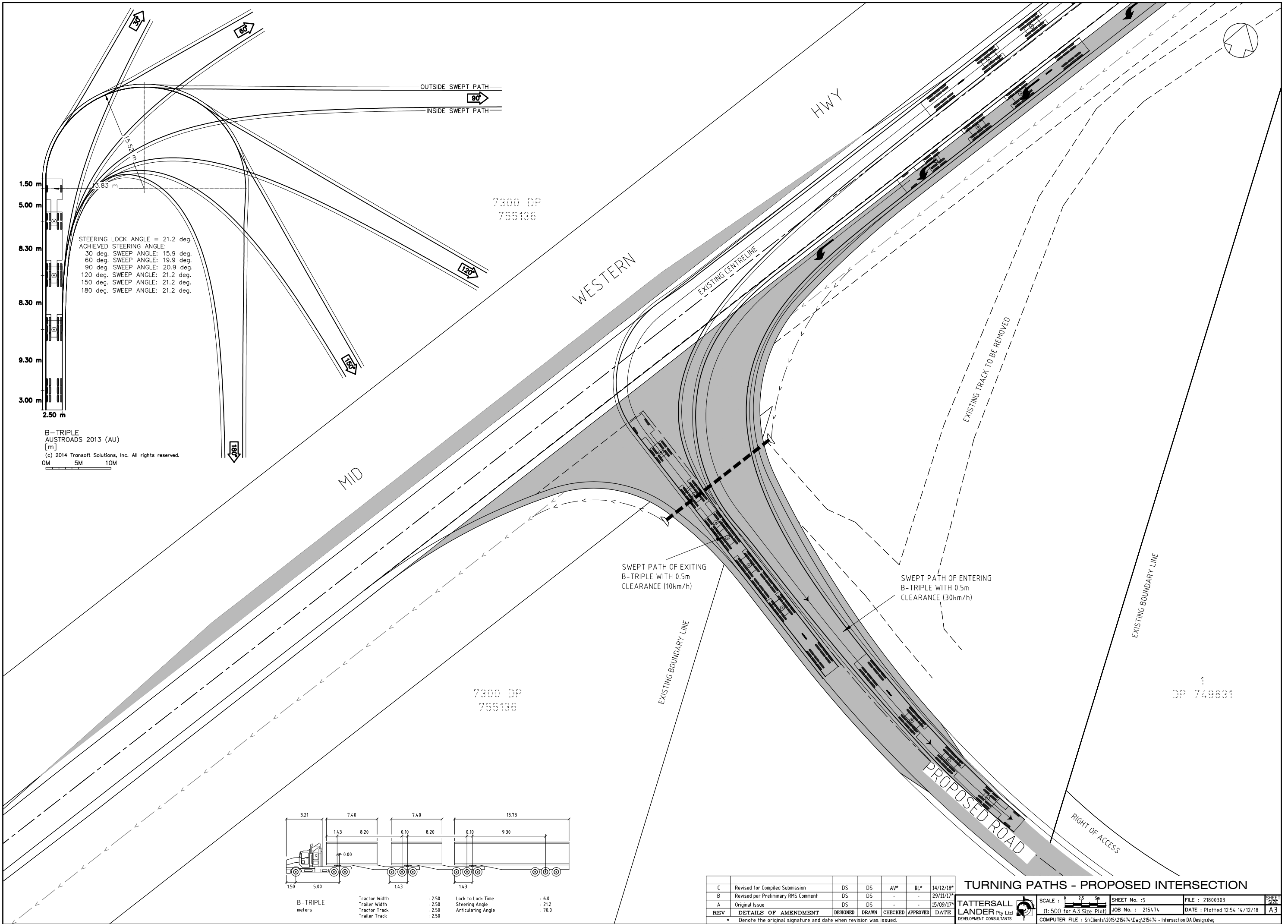
SCALE : 
(1:1000 for A3 Size Plot)

SHEET No. :3
JOB No. : 215474

FILE : 21800276
DATE : Plotted 12.54. 14/12/18

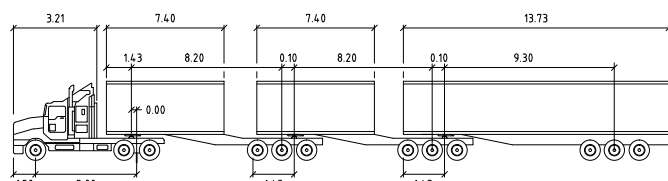
SHEET SIZE
A3

COMPUTER FILE : S:\Clients\2015\215474\Drawings\215474 - Intersection DA Design.dwg



STEERING LOCK ANGLE = 21.2 deg.
ACHIEVED STEERING ANGLE:
30 deg. SWEEP ANGLE: 15.9 deg.
60 deg. SWEEP ANGLE: 19.9 deg.
90 deg. SWEEP ANGLE: 20.9 deg.
120 deg. SWEEP ANGLE: 21.2 deg.
150 deg. SWEEP ANGLE: 21.2 deg.
180 deg. SWEEP ANGLE: 21.2 deg.

B-TRIPLE
AUSTROADS 2013 (AU)
[m]
(c) 2014 Transoft Solutions, Inc. All rights reserved.
0M 5M 10M



B-TRIPLE
meters
Tractor Width : 2.50
Trailer Width : 2.50
Tractor Track : 2.50
Trailer Track : 2.50
Lock to Lock Time : 6.0
Steering Angle : 21.2
Articulating Angle : 70.0

C	Revised for Compiled Submission	DS	DS	AV*	BL*	14/12/18*
B	Revised per Preliminary RMS Comment	DS	DS	-	-	29/11/17*
A	Original Issue	DS	DS	-	-	15/09/17*
REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
* Denote the original signature and date when revision was issued.						

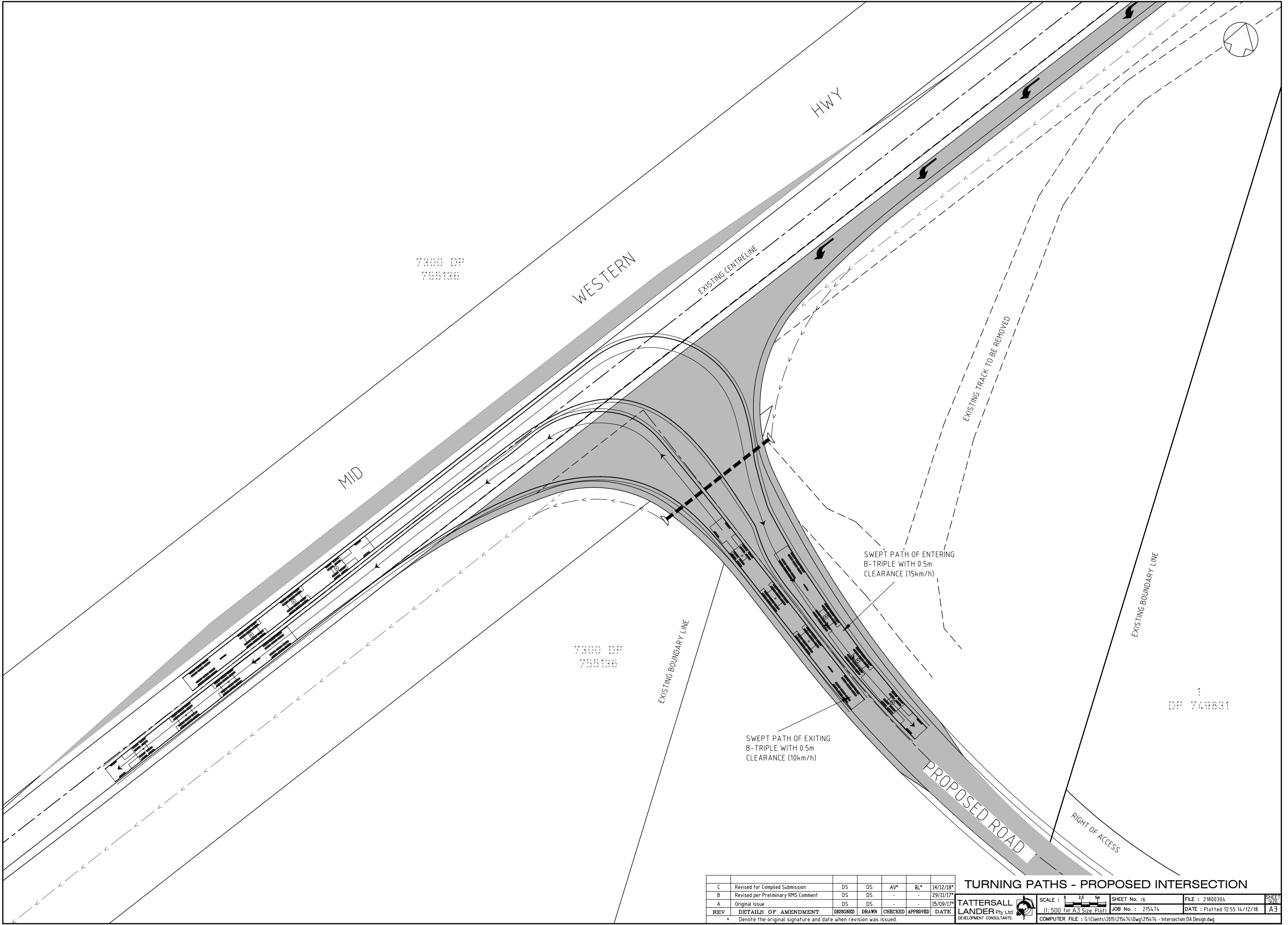
TURNING PATHS - PROPOSED INTERSECTION

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Pty Ltd
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SCALE : 1:500 for A3 Size Plot

SHEET No. : 5
JOB No. : 215474
DATE : 14/12/18

FILE : 21800303
DATE : Plotted 12.54 14/12/18
A3



C	Revised for Compiled Submission	DS	DS	AV*	BL*	14/12/18*
B	Revised per Preliminary RMS Comment	DS	DS	-	-	29/11/17*
A	Original Issue	DS	DS	-	-	15/09/17*
REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
* Denote the original signature and date when revision was issued.						

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DEVELOPMENT CONSULTANTS

SCALE : 1:500 for A3 Size Plot

SHEET No. : 6
JOB No. : 215474

FILE : 21800304
DATE : Plotted 12.55 14/12/18

SHEET SIZE
A3

COMPUTER FILE : S:\Clients\2015\215474\Drawings\215474 - Intersection DA Design.dwg



SAFE INTERSECTION SIGHT DISTANCE - AGRD04A SECTION 3.2.2 - Equation 2							
VEHICLE	OBSERVATION TIME (s)	REACTION TIME (s)	DECISION TIME (s)	VELOCITY (km/h)	COEFFICIENT OF DECELERATION	LONGITUDINAL GRADE (%)	SISD (m)
CAR	3	2.5	5.5	120	0.362	0	340
CAR AT NIGHT	3	2.5	5.5	120	0.46	0	307
TRUCK	2.5	2.5	5	120	0.24	0	403
TRUCK AT NIGHT	2.5	2.5	5	120	0.29	0	362

NOTE:
- THE DISTANCE FOR AN APPROACHING TRUCK HAS BEEN ADOPTED AS THE MAJOR ROAD IS A RURAL HIGHWAY.
-VERTICAL HAS NOT CURRENTLY BEEN CONSIDERED BUT IS ASSUMED TO BE APPROXIMATELY 0% GRADE

MINIMUM GAP SIGHT DISTANCE		
CRITICAL GAP ACCEPTANCE TIME (S)	APPROACHING VEHICLE SPEED (km/h)	MGSD (M)
21.3	120	710

NOTE: CRITICAL GAP ACCEPTANCE TIME BASED ON AGRD04 TABLE B.3 FOR A LADEN ROAD TRAIN TO CLEAR A RAIL CROSSING.

C	Revised for Compiled Submission	DS	DS	AV*	BL*	14/12/18*
B	Revised per Preliminary RMS Comment	DS	DS	-	-	29/11/17*
A	Original Issue	DS	DS	-	-	15/09/17*
REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
* Denote the original signature and date when revision was issued.						

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SCALE : 1:2000 (for A3 Size Plot)

SHEET No. : 7

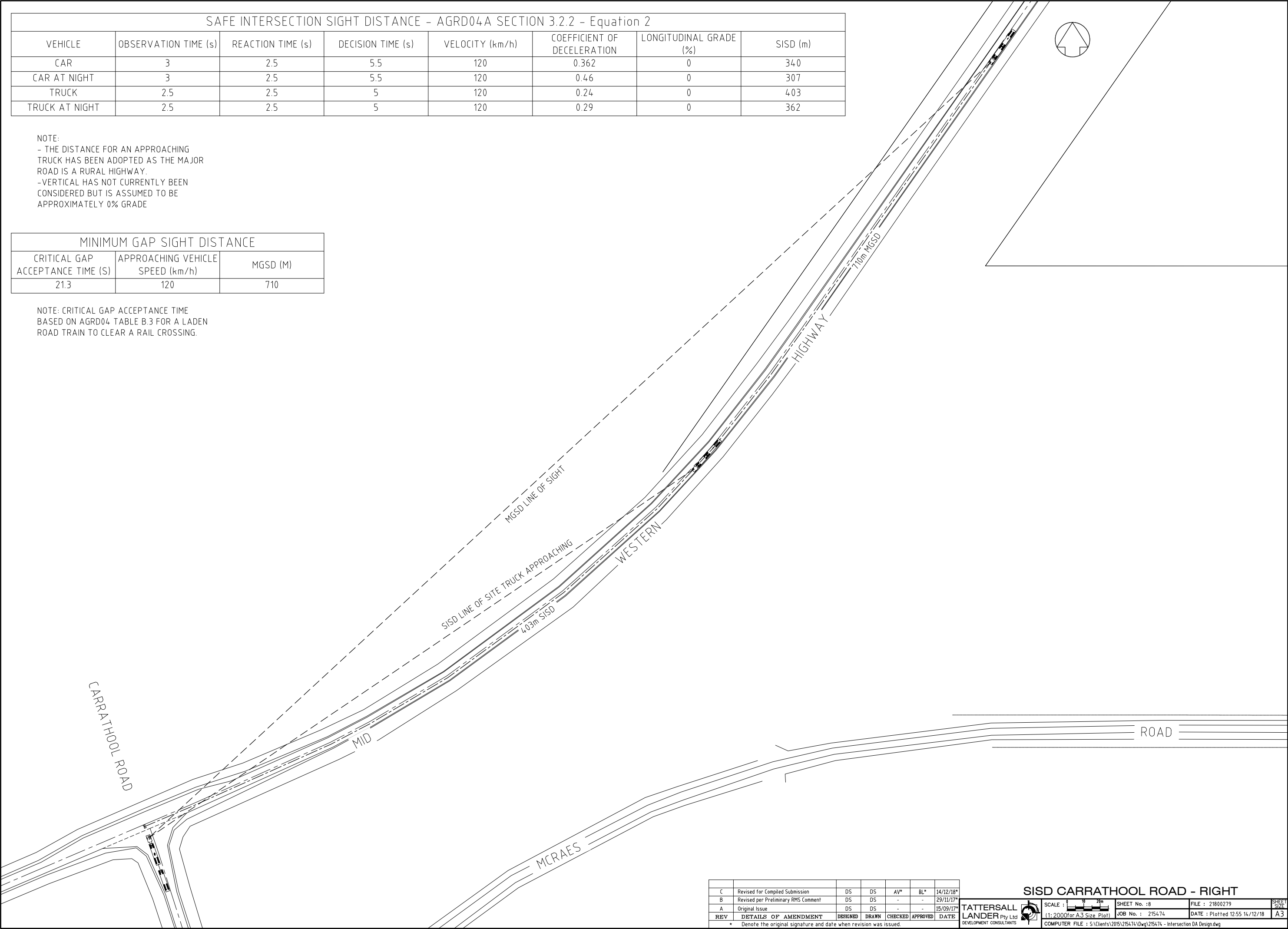
JOB No. : 215474

DATE : Plotted 12:55 14/12/18

COMPUTER FILE : S:\Clients\2015\215474\Drawg\215474 - Intersection DA Design.dwg

SISD CARRATHOOL ROAD - RIGHT

A3





SAFE INTERSECTION SIGHT DISTANCE - AGRD04A SECTION 3.2.2 - Equation 2							
VEHICLE	OBSERVATION TIME (s)	REACTION TIME (s)	DECISION TIME (s)	VELOCITY (km/h)	COEFFICIENT OF DECELERATION	LONGITUDINAL GRADE (%)	SISD (m)
CAR	3	2.5	5.5	120	0.362	0	340
CAR AT NIGHT	3	2.5	5.5	120	0.46	0	307
TRUCK	2.5	2.5	5	120	0.24	0	403
TRUCK AT NIGHT	2.5	2.5	5	120	0.29	0	362

NOTE:
- THE DISTANCE FOR AN APPROACHING TRUCK HAS BEEN ADOPTED AS THE MAJOR ROAD IS A RURAL HIGHWAY.
- AVAILABLE SIGHT DISTANCE >2KM (TIA 53.1.2)

MINIMUM GAP SIGHT DISTANCE		
CRITICAL GAP ACCEPTANCE TIME (S)	APPROACHING VEHICLE SPEED (km/h)	MGSD (M)
21.3	120	710

NOTE: CRITICAL GAP ACCEPTANCE TIME BASED ON AGRD04 TABLE B.3 FOR A LADEN ROAD TRAIN TO CLEAR A RAIL CROSSING.

C	Revised for Compiled Submission	DS	DS	AV*	BL*	14/12/18*
B	Revised per Preliminary RMS Comment	DS	DS	-	-	29/11/17*
A	Original Issue	DS	DS	-	-	15/09/17*
REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
* Denote the original signature and date when revision was issued.						

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SCALE : 1:2000 (for A3 Size Plot)

SHEET No. : 9

JOB No. : 215474

FILE : 21800280

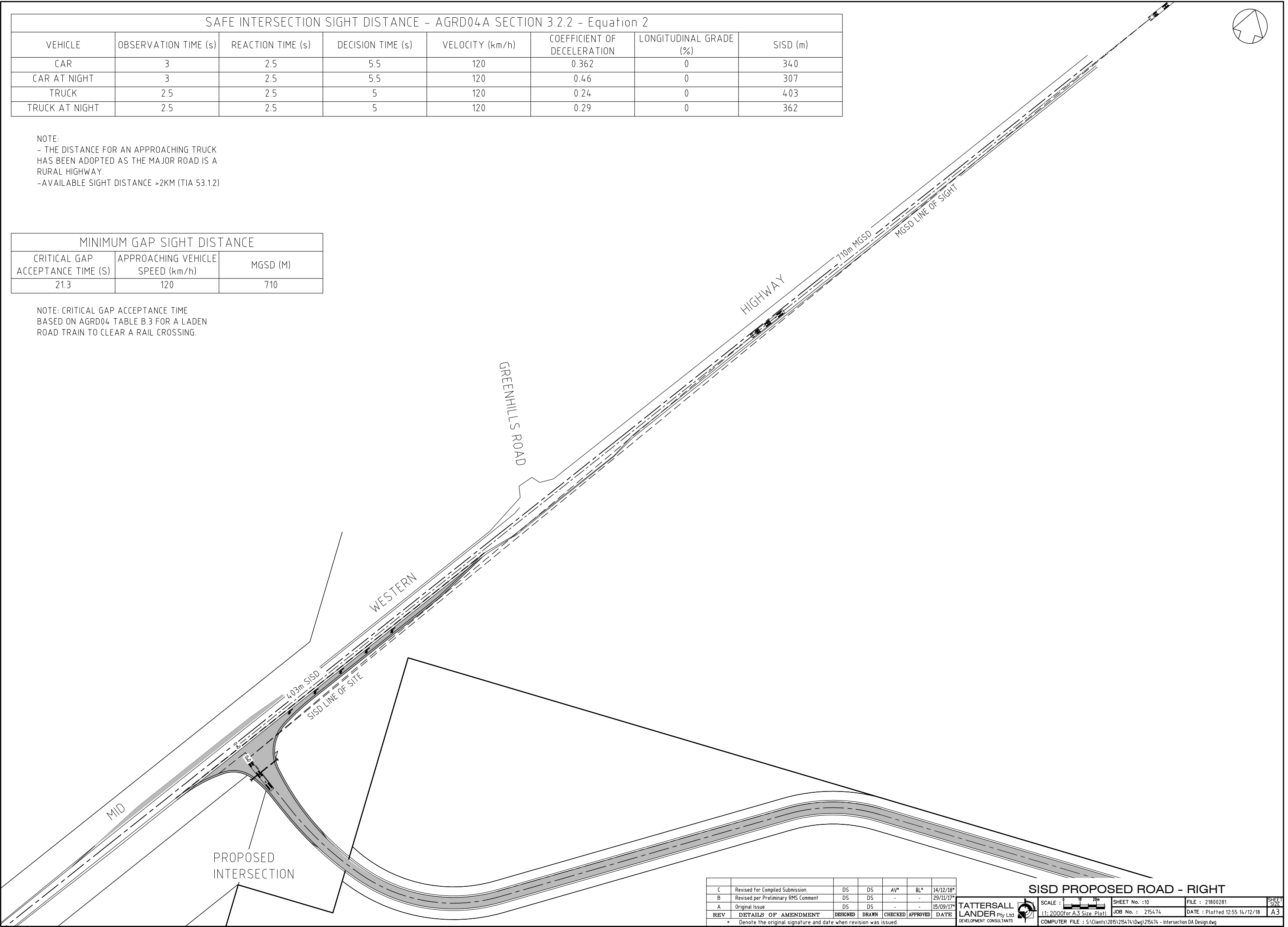
DATE : Plotted 12:55 14/12/18

SHEET SIZE

A3

SISD PROPOSED ROAD - RIGHT

COMPUTER FILE : S:\Clients\2015\215474\Drawings\215474 - Intersection DA Design.dwg



SAFE INTERSECTION SIGHT DISTANCE - AGRD04A SECTION 3.2.2 - Equation 2							
VEHICLE	OBSERVATION TIME (s)	REACTION TIME (s)	DECISION TIME (s)	VELOCITY (km/h)	COEFFICIENT OF DECELERATION	LONGITUDINAL GRADE (%)	SISD (m)
CAR	3	2.5	5.5	120	0.362	0	340
CAR AT NIGHT	3	2.5	5.5	120	0.46	0	307
TRUCK	2.5	2.5	5	120	0.24	0	403
TRUCK AT NIGHT	2.5	2.5	5	120	0.29	0	362

NOTE:
- THE DISTANCE FOR AN APPROACHING TRUCK
HAS BEEN ADOPTED AS THE MAJOR ROAD IS A
RURAL HIGHWAY.
-AVAILABLE SIGHT DISTANCE >2KM (TIA 53.12)

MINIMUM GAP SIGHT DISTANCE		
CRITICAL GAP ACCEPTANCE TIME (S)	APPROACHING VEHICLE SPEED (km/h)	MGSD (M)
21.3	120	710

NOTE: CRITICAL GAP ACCEPTANCE TIME
BASED ON AGRD04 TABLE B.3 FOR A LADEN
ROAD TRAIN TO CLEAR A RAIL CROSSING.

C	Revised for Compiled Submission	DS	DS	AV*	BL*	14/12/18*
B	Revised per Preliminary RMS Comment	DS	DS	-	-	29/11/17*
A	Original Issue	DS	DS	-	-	15/09/17*
REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
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LANDER
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SCALE :
(1:2000 for A3 Size Plot)

SHEET No. :10

JOB No. : 215474

DATE : Plotted 12:55 14/12/18

FILE : 21800281

SHEET
SIZE
A3

COMPUTER FILE : S:\Clients\2015\215474\Drawings\215474 - Intersection DA Design.dwg

SISD PROPOSED ROAD - RIGHT



SAFE INTERSECTION SIGHT DISTANCE - AGRD04A SECTION 3.2.2 - Equation 2							
VEHICLE	OBSERVATION TIME (s)	REACTION TIME (s)	DECISION TIME (s)	VELOCITY (km/h)	COEFFICIENT OF DECELERATION	LONGITUDINAL GRADE (%)	SISD (m)
CAR	3	2.5	5.5	120	0.362	0	340
CAR AT NIGHT	3	2.5	5.5	120	0.46	0	307
TRUCK	2.5	2.5	5	120	0.24	0	403
TRUCK AT NIGHT	2.5	2.5	5	120	0.29	0	362

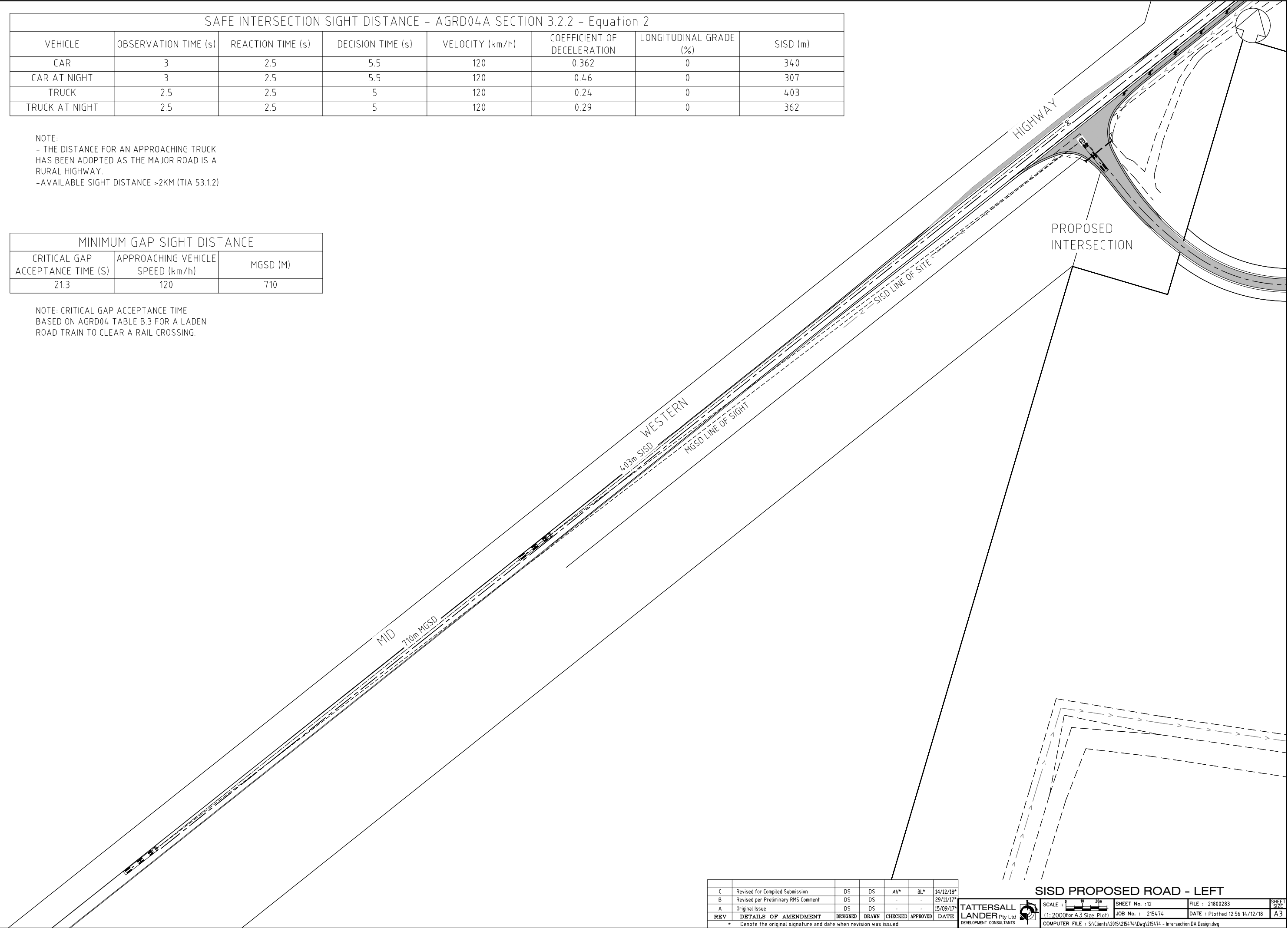
NOTE:
- THE DISTANCE FOR AN APPROACHING TRUCK HAS BEEN ADOPTED AS THE MAJOR ROAD IS A RURAL HIGHWAY.
-AVAILABLE SIGHT DISTANCE >2KM (TIA 53.12)

MINIMUM GAP SIGHT DISTANCE		
CRITICAL GAP ACCEPTANCE TIME (S)	APPROACHING VEHICLE SPEED (km/h)	MGSD (M)
21.3	120	710

NOTE: CRITICAL GAP ACCEPTANCE TIME BASED ON AGRD04 TABLE B.3 FOR A LADEN ROAD TRAIN TO CLEAR A RAIL CROSSING.

C	Revised for Compiled Submission	DS	DS	AV*	BL*	14/12/18*
B	Revised per Preliminary RMS Comment	DS	DS	-	-	29/11/17*
A	Original Issue	DS	DS	-	-	15/09/17*
REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
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TATTERSALL LANDER Pty Ltd DEVELOPMENT CONSULTANTS			SCALE :  (1:2000 for A3 Size Plot)	SHEET No. :11	FILE : 21800282	SHEET SIZE
			JOB No. : 215474		DATE : Plotted 12:56 14/12/18	
COMPUTER FILE : S:\Clients\2015\215474\Drawg\215474 - Intersection DA Design.dwg						



SAFE INTERSECTION SIGHT DISTANCE - AGRD04A SECTION 3.2.2 - Equation 2							
VEHICLE	OBSERVATION TIME (s)	REACTION TIME (s)	DECISION TIME (s)	VELOCITY (km/h)	COEFFICIENT OF DECELERATION	LONGITUDINAL GRADE (%)	SISD (m)
CAR	3	2.5	5.5	120	0.362	0	340
CAR AT NIGHT	3	2.5	5.5	120	0.46	0	307
TRUCK	2.5	2.5	5	120	0.24	0	403
TRUCK AT NIGHT	2.5	2.5	5	120	0.29	0	362

NOTE:
- THE DISTANCE FOR AN APPROACHING TRUCK
HAS BEEN ADOPTED AS THE MAJOR ROAD IS A
RURAL HIGHWAY.
-AVAILABLE SIGHT DISTANCE >2KM (TIA 53.12)

MINIMUM GAP SIGHT DISTANCE		
CRITICAL GAP ACCEPTANCE TIME (S)	APPROACHING VEHICLE SPEED (km/h)	MGSD (M)
21.3	120	710

NOTE: CRITICAL GAP ACCEPTANCE TIME
BASED ON AGRD04 TABLE B.3 FOR A LADEN
ROAD TRAIN TO CLEAR A RAIL CROSSING.

C	Revised for Compiled Submission	DS	DS	AV*	BL*	14/12/18*
B	Revised per Preliminary RMS Comment	DS	DS	-	-	29/11/17*
A	Original Issue	DS	DS	-	-	15/09/17*
REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE

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SCALE : 1:2000 (for A3 Size Plot)
20m

SHEET No. :12
JOB No. : 215474

FILE : 21800283
DATE : Plotted 12.56 14/12/18

SHEET SIZE
A3

SISD PROPOSED ROAD - LEFT
COMPUTER FILE : S:\Clients\2015\215474\Drawg\215474 - Intersection DA Design.dwg