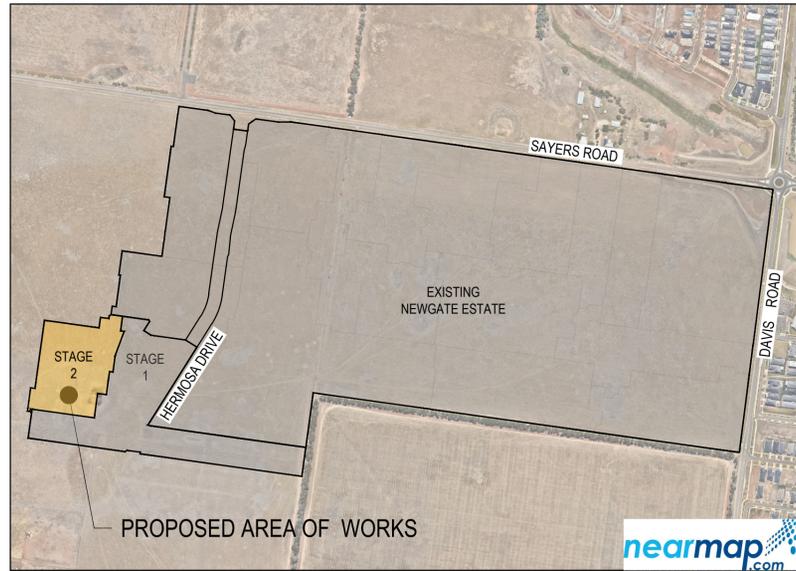


Alamora Estate

Stage 2, Sayers Road, Tarneit



Locality Plan
N.T.S

Drawing Index

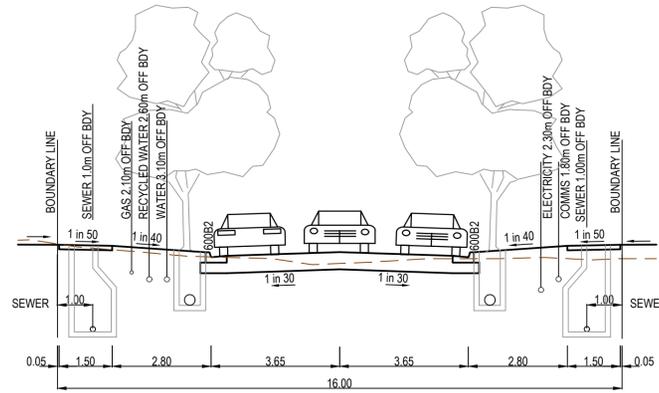
- 2070E-A02-01 Cover Plan
- 2070E-A02-02 Layout Plan
- 2070E-A02-03 Earthworks Plan
- 2070E-A02-04 Intersection Detail Plan - 1
- 2070E-A02-05 Intersection Detail Plan - 2
- 2070E-A02-06 Longitudinal Sections
- 2070E-A02-07 Cross Sections: Amara Street
- 2070E-A02-08 Cross Sections: Alister Grove
- 2070E-A02-09 Cross Sections: Coronado Way CH92.81-CH137.31
- 2070E-A02-10 Cross Sections: Coronado Way CH163.51-CH196.56
- 2070E-A02-11 Cross Sections: Coronado Way CH219.56
- 2070E-A02-12 Cross Sections: Pipers Street
- 2070E-A02-13 Drainage Longitudinal Sections - 1
- 2070E-A02-14 Drainage Longitudinal Sections - 2
- 2070E-A02-15 Pit Schedule
- 2070E-A02-16 Signage & Linemarking Plan
- 2070E-A02-17 Pavement Details
- 2070E-A02-18 General Notes & Details
- 2070E-A02-85 Safety In Design

ROAD NAME	ROAD RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
		LIP TO LIP	INV TO INV	BACK TO BACK	NTH/WEST	ST/EAST	NTH/WEST	ST/EAST
PIPERS STREET	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
AMARA STREET	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
ALISTER GROVE	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
CORONADO WAY	14.50	6.40	7.30	7.60	B2	B2	4.20	2.70

ROAD NAME	SERVICES OFFSET TABLE				
	GAS	WATER	RECYCLED WATER	ELECTRICITY	OPTIC FIBRE
PIPERS STREET	2.10 E	3.10 E	2.60 E	2.30 W	1.80 W
AMARA STREET	2.10 W	3.10 W	2.60 W	2.30 E	1.80 E
ALISTER GROVE	2.10 N	3.10 N	2.60 N	2.50 S	1.80 S
CORONADO WAY	2.10 N	3.10 N	2.60 N	0.90 S	0.30 S

POINT	EAST	NORTHING	ELEVATION	DESCRIPTION
C126SSPL	292,019.27	5,808,710.17	44.76	STEEL STAR PICKET
C31SSPG	291,654.25	5,808,412.97	43.99	STEEL STAR PICKET
C39SSPG	292,434.86	5,808,218.41	41.90	STEEL STAR PICKET

POINT	EAST	NORTHING	ELEVATION	DESCRIPTION
C161SSPL	291,974.57	5,808,541.41	43.56	STEEL STAR PICKET
C307SSPL	292,092.01	5,808,527.94	43.85	STEEL STAR PICKET
C306SSPL	292,020.52	5,808,401.74	43.58	STEEL STAR PICKET

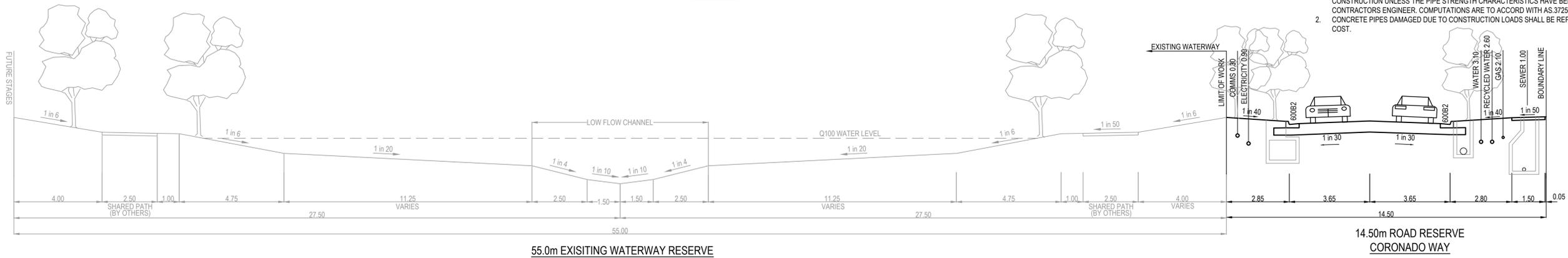


16.0m ROAD RESERVE
AMARA STREET, PIPERS STREET AND ALISTER GROVE

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WARNING
SAFETY MEASURES REQUIRED
Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety in Design Risk Register SID P4.E6.2070E-A02-85
ASSESS THE RISK - STAY SAFE

WARNING
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55.0m EXISTING WATERWAY RESERVE

REINFORCED CONCRETE PIPE

1. ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS 3725-2007. LOADS ON BURIED PIPES.
2. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPLACED & RELAID AT THE CONTRACTOR'S COST.

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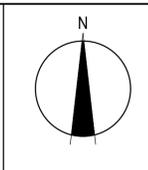
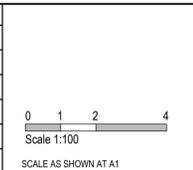
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OHS Management AS/NZS 4500
Environmental Management ISO 14001

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DESIGNER	A.Famili
CHECKED	C.Sexton
AUTHORISED	C.Sexton
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REFERENCE No. 2	

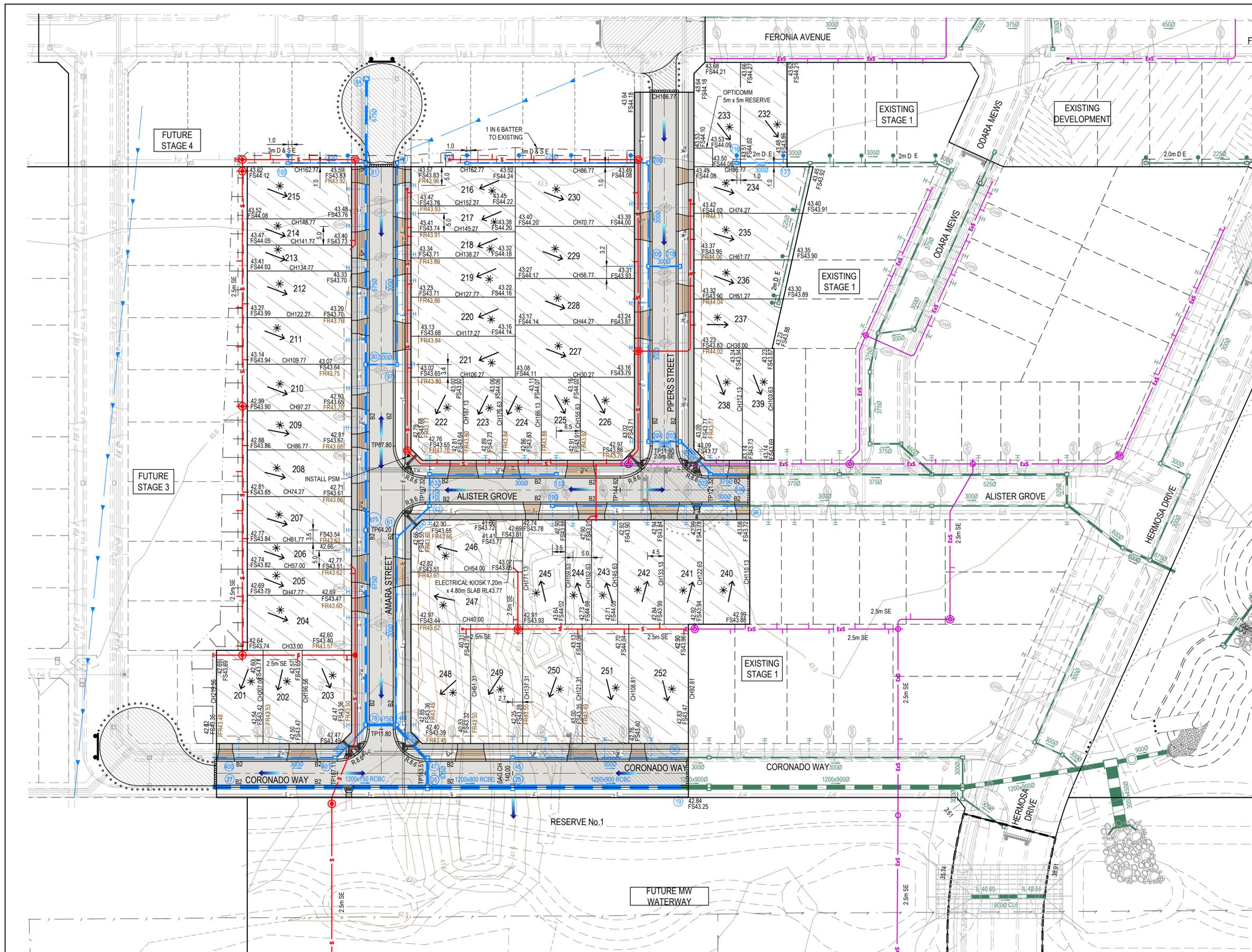


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ALAMORA
Tarneit

Alamora Estate, Sayers Road, Tarneit - Stage 2
Wyndham City Council
Road and Drainage
Cover Plan

MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-01	SHEET No. 01 of 19	REVISION 0
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LEGEND - LAYOUT PLAN
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	AG. DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG. DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
	141.34 EXISTING SURFACE LEVEL
	FS140.35 FINISHED BUILDING LINE LEVEL
	FR157.40 FINISHED RIDGE LINE LEVEL
	CH270.00 CHAINAGE
	STRUCTURAL FILL > 200mm
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

WARNING
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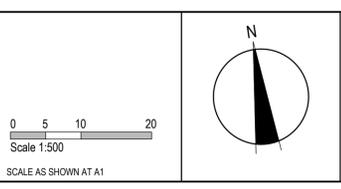
SERVICE LOCATIONS ARE IN ACCORDANCE WITH APPENDIX H OF THE MPA GUIDELINES AND THE DETAIL PLAN. **SHOULD NOT BE RELIED UPON FOR THE ACCURATE POSITIONING OF DRAINAGE LINES GREATER THAN 450mm BEHIND BACK OF KERB. PIPES GREATER THAN 450mm WILL BE HAUNCHED UNDERNEATH KERB AND CHANNEL WHERE APPLICABLE TO ENSURE THAT PIT WIDTH BEHIND BACK OF KERB DOES NOT EXCEED 0.9m.**

AS CONSTRUCTED PLANS
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TITLE	NAME
DRAFTER	D.Rapson
DESIGNER	A.Famili
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AUTHORISED	C.Sexton
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Alamora Estate, Sayers Road, Tarnait - Stage 2
Wyndham City Council
Road and Drainage
Layout Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D5	2070E-A02-02	02 of 19	4



LEGEND - EARTHWORKS PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING SURFACE LEVEL
	141.34 FINISHED BUILDING LINE LEVEL
	FR157.40 FINISHED RIDGE LINE LEVEL
	CH270.00 CHAINAGE
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

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SERVICE LOCATIONS ARE IN ACCORDANCE WITH APPENDIX H OF THE MPA GUIDELINES AND THE DETAIL PLAN. **SHOULD NOT** BE RELIED UPON FOR THE ACCURATE POSITIONING OF **DRAINAGE LINES GREATER THAN 450dia.** BEHIND BACK OF KERB. PIPES GREATER THAN 450dia. WILL BE HAUNCHED UNDERNEATH KERB AND CHANNEL WHERE APPLICABLE TO ENSURE THAT PIT WIDTH BEHIND BACK OF KERB DOES NOT EXCEED 0.9m.

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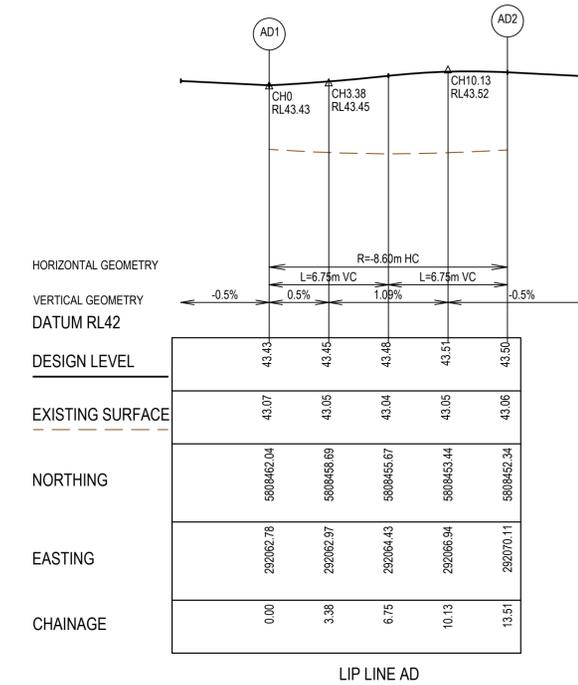
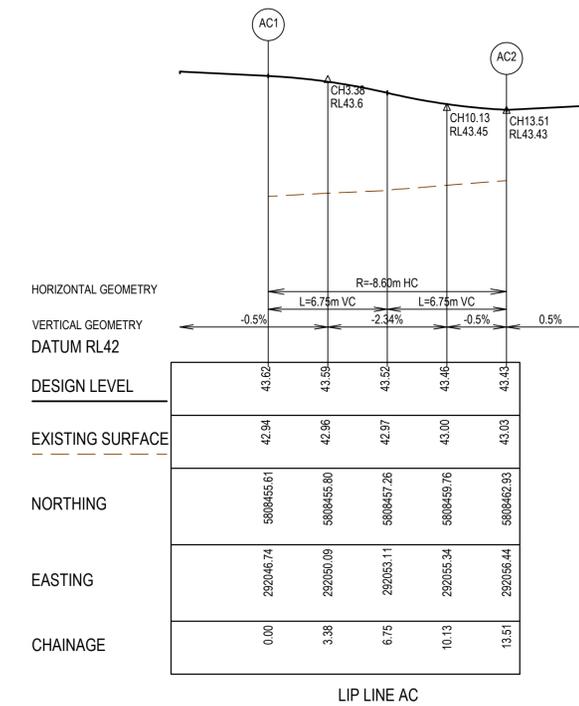
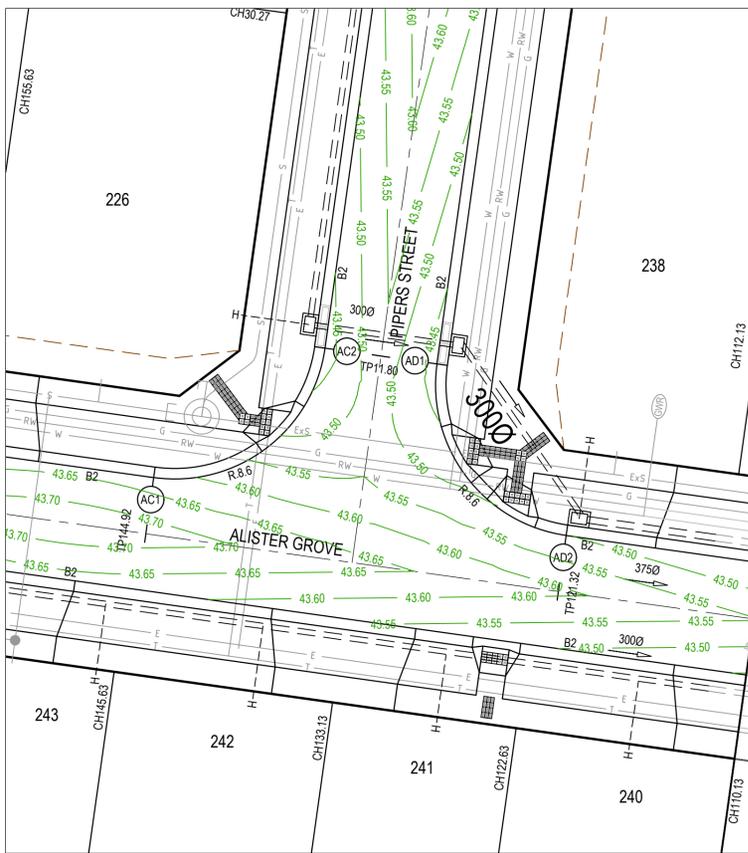
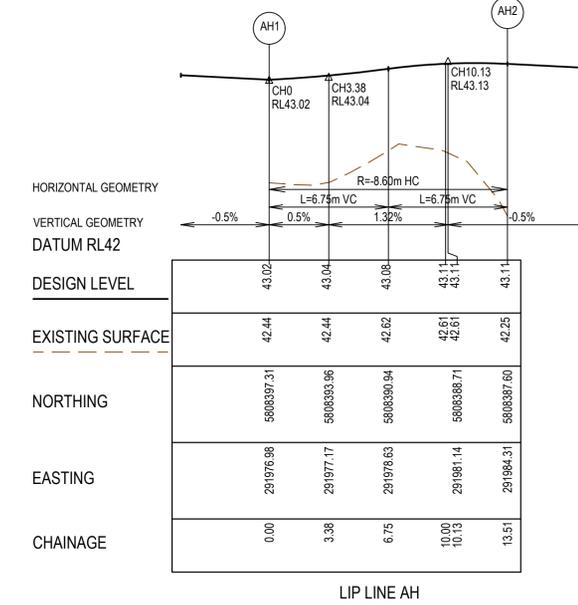
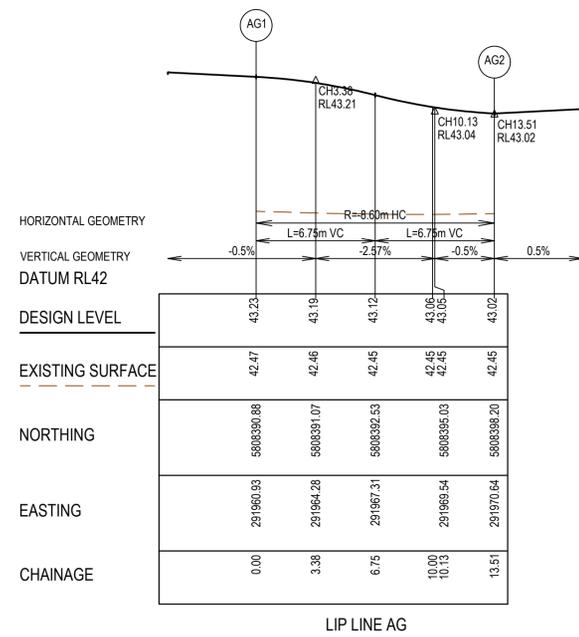
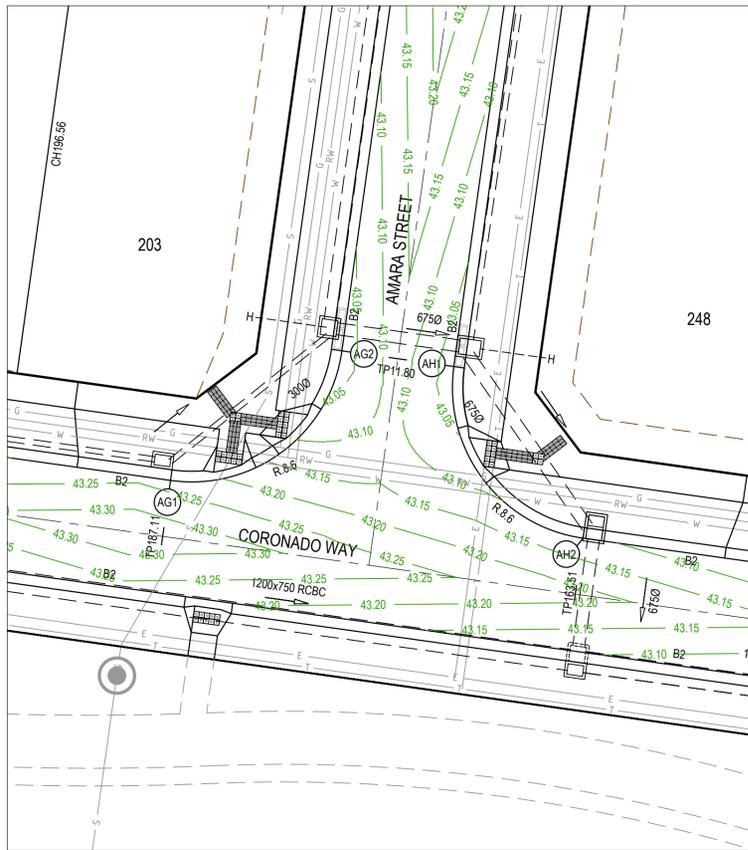
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ALAMORA
Tarneit

Alamora Estate, Sayers Road, Tarneit - Stage 2
 Wyndham City Council
 Road and Drainage
 Earthworks Plan

MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-03	SHEET No. 03 of 19	REVISION 1
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LEGEND - INTERSECTION DETAIL PLAN
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

WARNING
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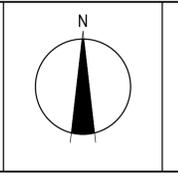
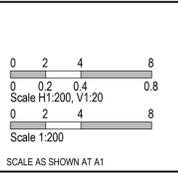
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TITLE	NAME
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DESIGNER	A.Famili
CHECKED	C.Sexton
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



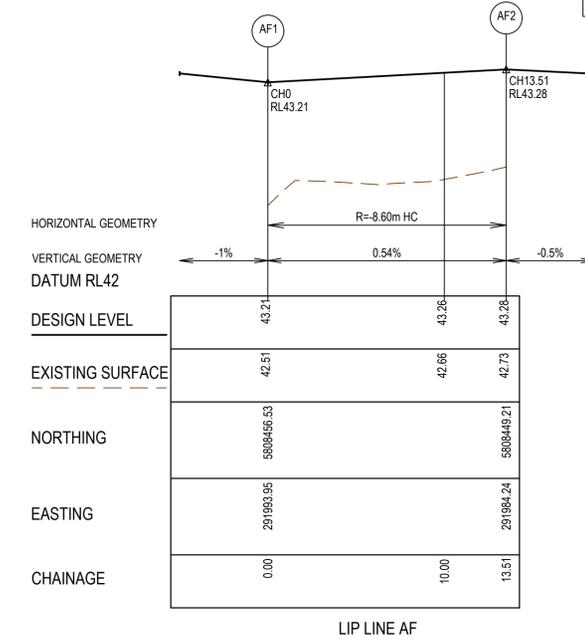
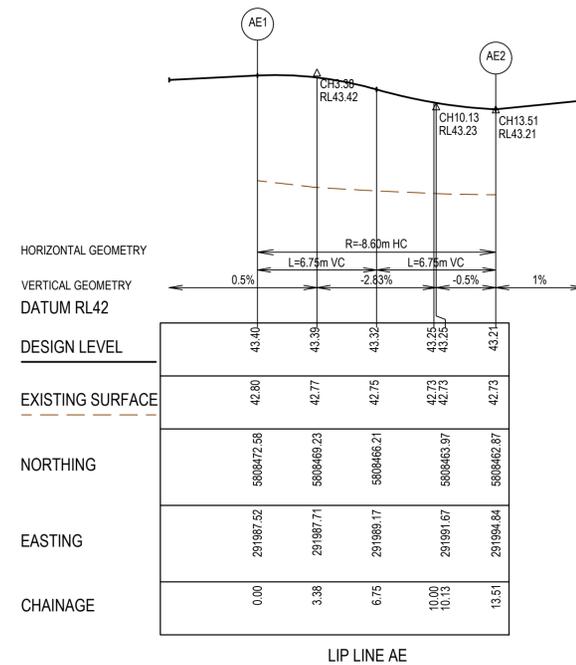
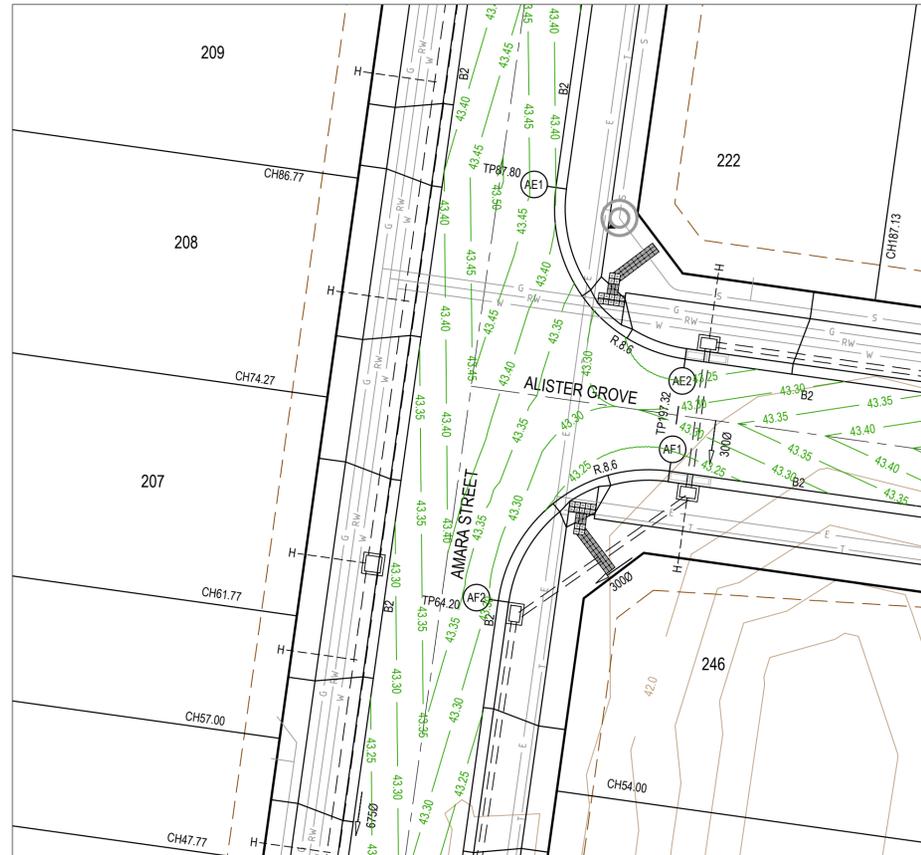
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Tarnait

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Wyndham City Council
Road and Drainage
Intersection Detail Plan - 1

MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-04	SHEET No. 04 of 19	REVISION 0
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LEGEND - INTERSECTION DETAIL PLAN	
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	STORMWATER DRAIN, PIT & PROPERTY INLET
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	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH



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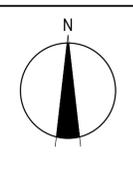
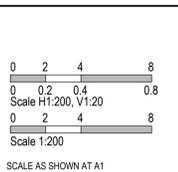
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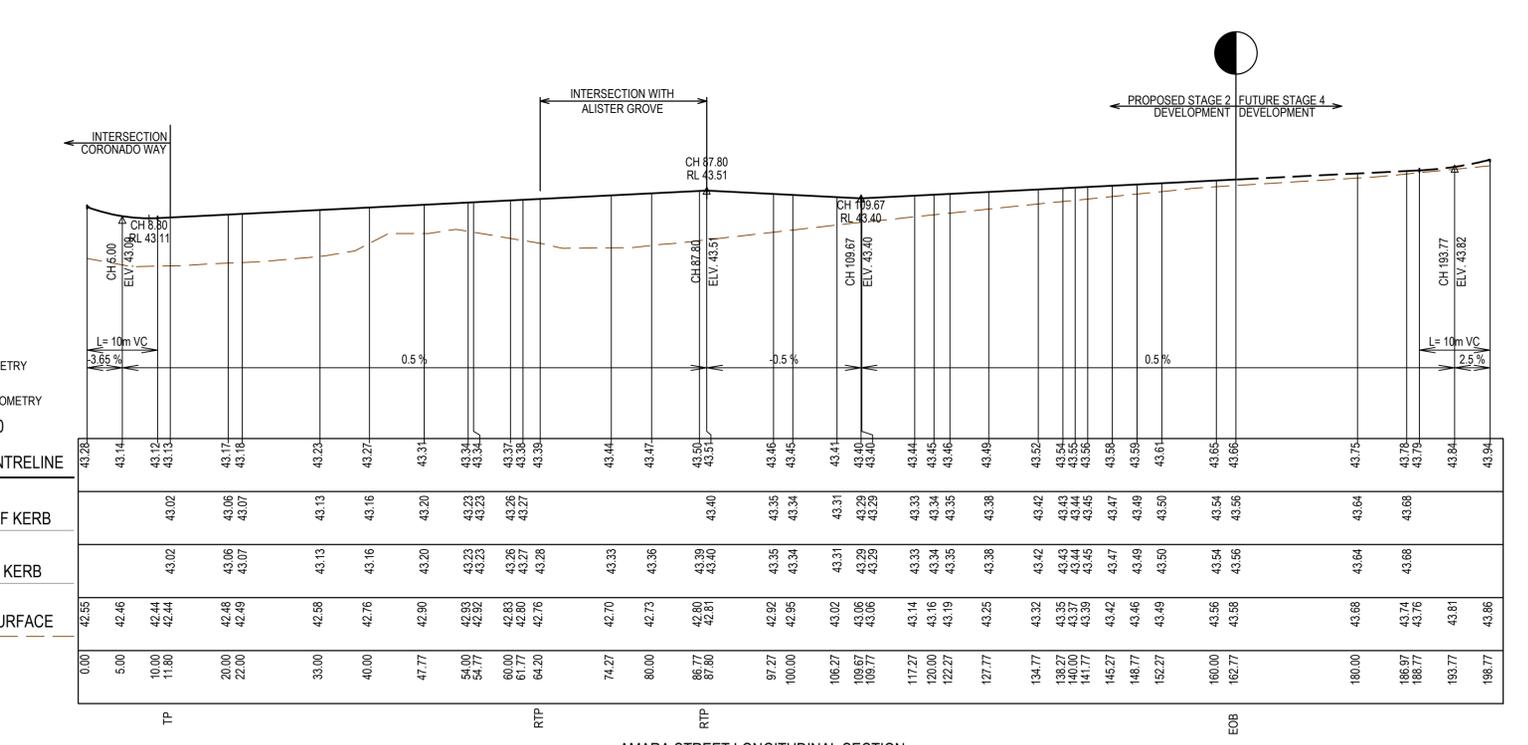
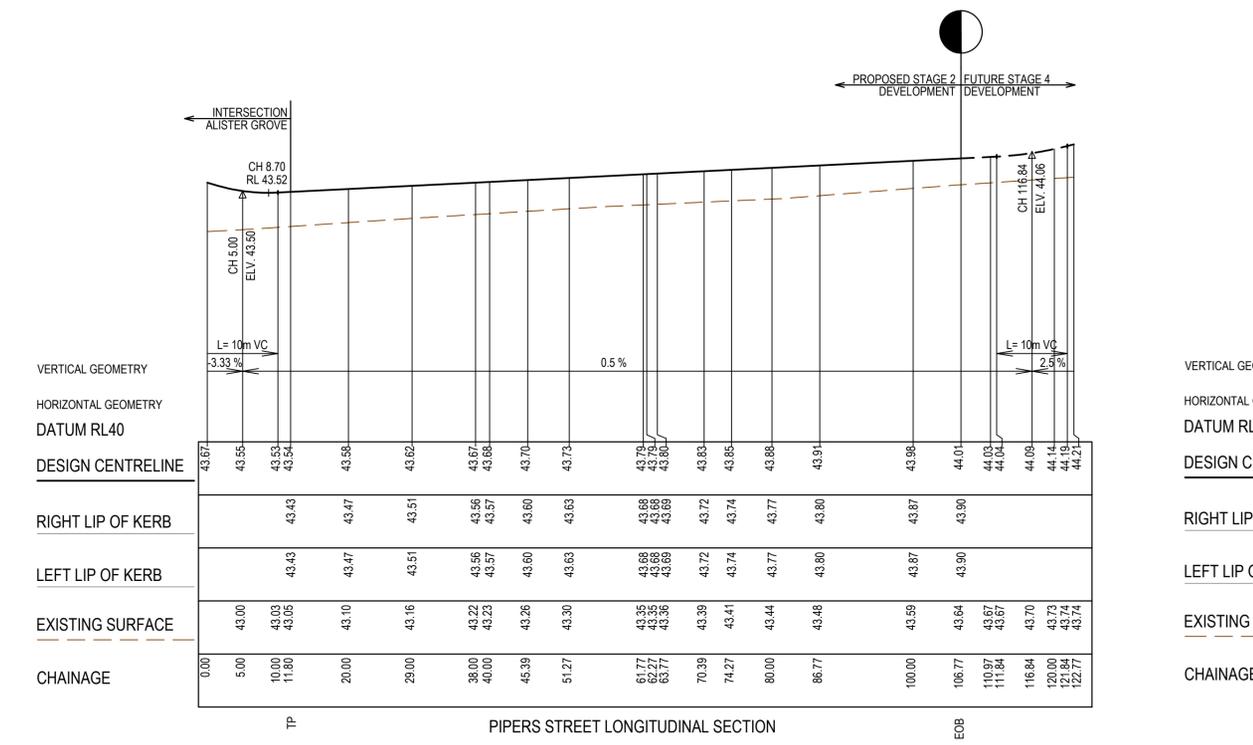
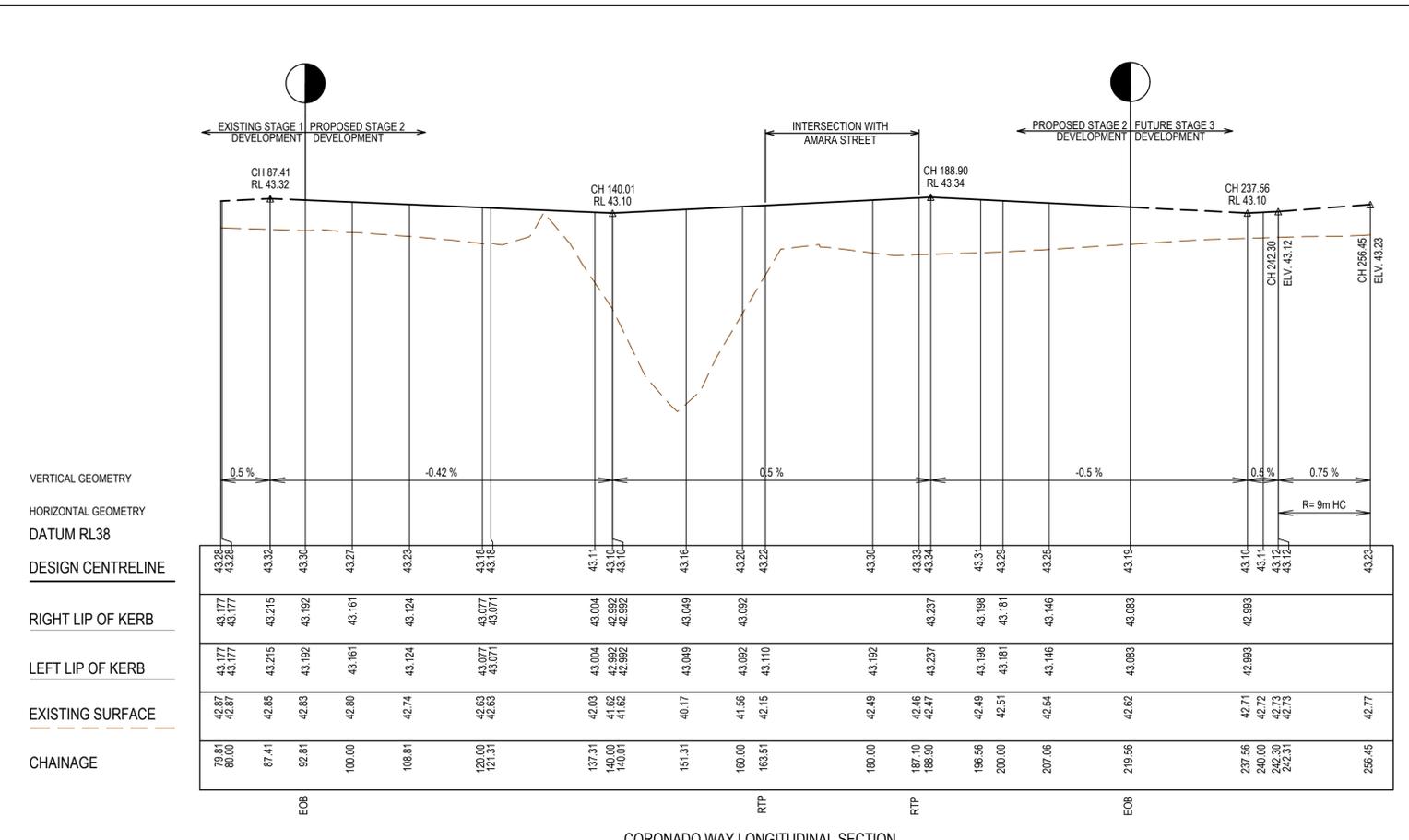
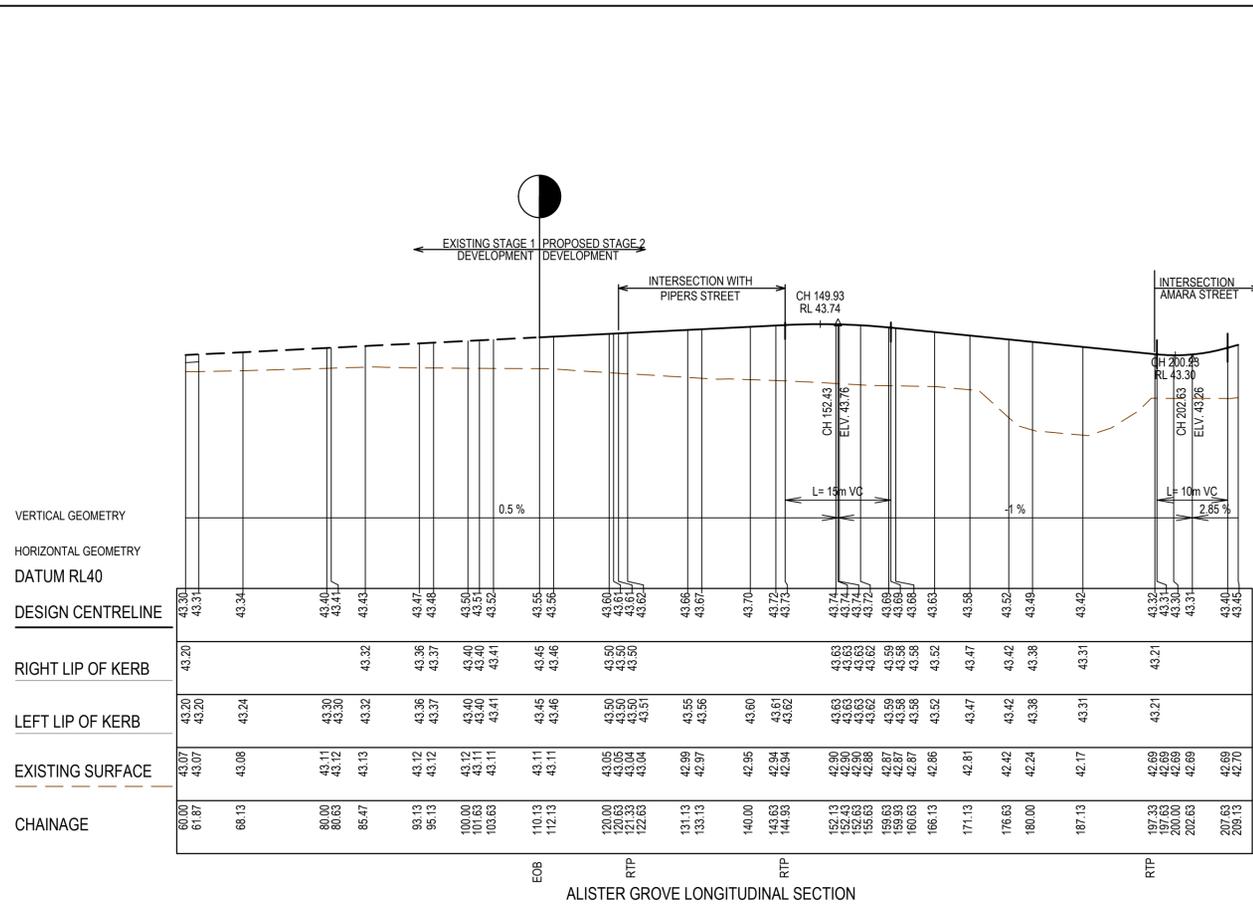


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Tarnait

Alamora Estate, Sayers Road, Tarnait - Stage 2
 Wyndham City Council
 Road and Drainage
 Intersection Detail Plan - 2

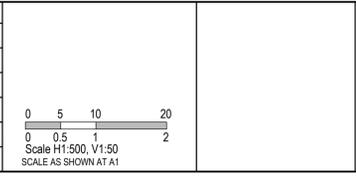
MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-05	SHEET No. 05 of 19	REVISION 0
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AS CONSTRUCTED PLANS
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AS CONSTRUCTED

<p>All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.</p> <p>Quality Management ISO 9001 Global Mark.com.au</p> <p>Ops Management AS/NZS 1800 Global Mark.com.au</p> <p>Environmental Management ISO 14001 Global Mark.com.au</p>	<table border="1"> <tr><th>TITLE</th><th>NAME</th></tr> <tr><td>DRAFTER</td><td>D.Rapson</td></tr> <tr><td>DESIGNER</td><td>A.Famili</td></tr> <tr><td>CHECKED</td><td>C.Sexton</td></tr> <tr><td>AUTHORISED</td><td>C.Sexton</td></tr> <tr><td>REFERENCE No. 1</td><td></td></tr> <tr><td>REFERENCE No. 2</td><td></td></tr> </table>	TITLE	NAME	DRAFTER	D.Rapson	DESIGNER	A.Famili	CHECKED	C.Sexton	AUTHORISED	C.Sexton	REFERENCE No. 1		REFERENCE No. 2	
TITLE	NAME														
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CHECKED	C.Sexton														
AUTHORISED	C.Sexton														
REFERENCE No. 1															
REFERENCE No. 2															

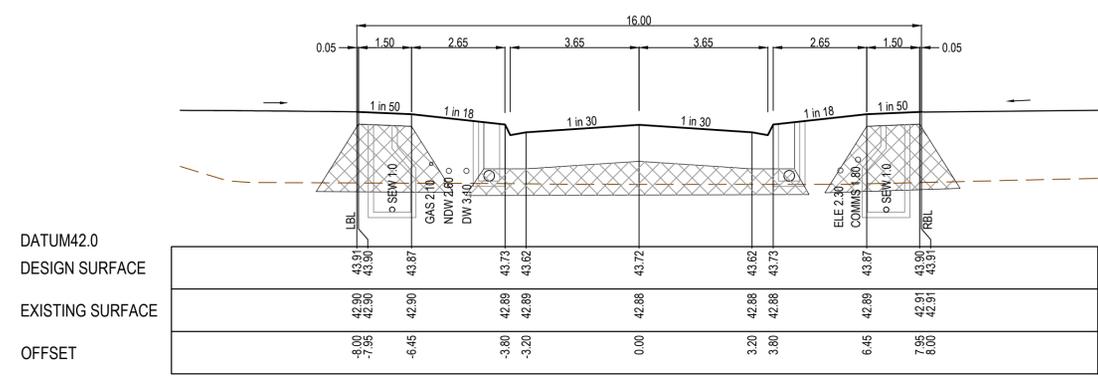


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 Ph 03 9514 1500

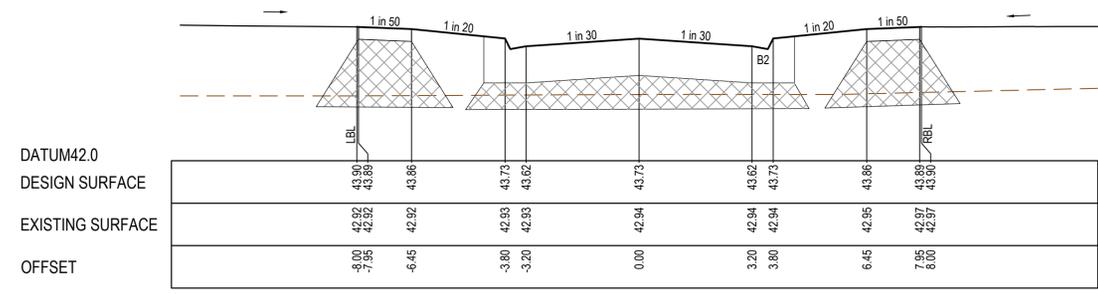
ALAMORA
Tarnait

<p>Alamora Estate, Sayers Road, Tarnait - Stage 2 Wyndham City Council Road and Drainage Longitudinal Sections</p>		<p>MELWAYS REF 234 D5</p>	<p>PROJECT / DRAWING No. 2070E-A02-06</p>	<p>SHEET No. 06 of 19</p>	<p>REVISION 0</p>
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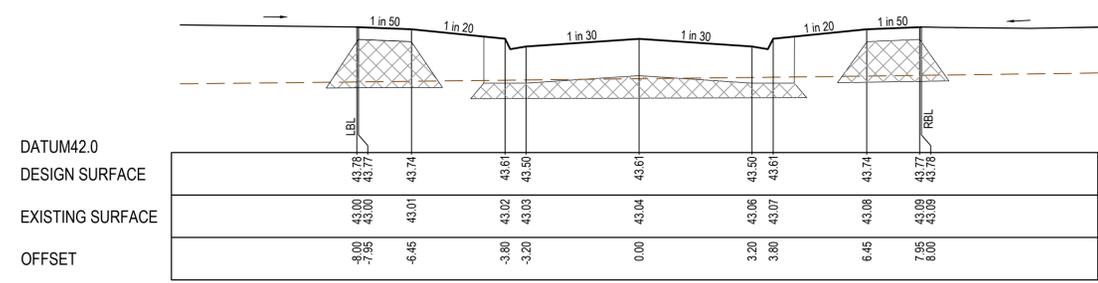
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



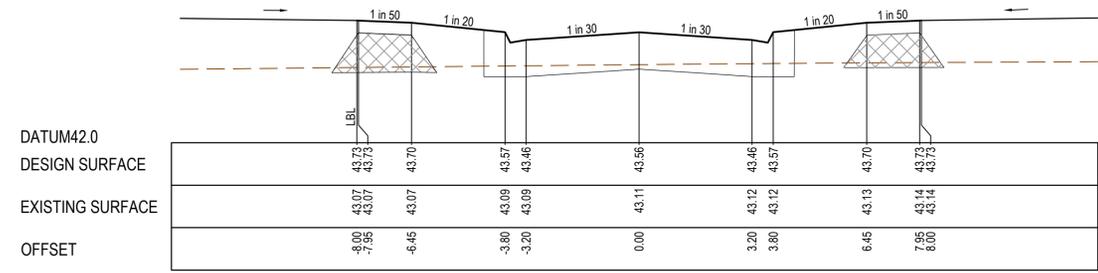
CH 155.63



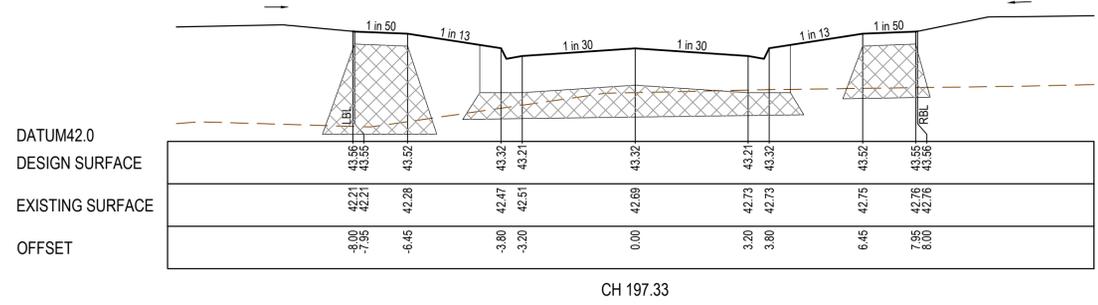
TP CH 144.93



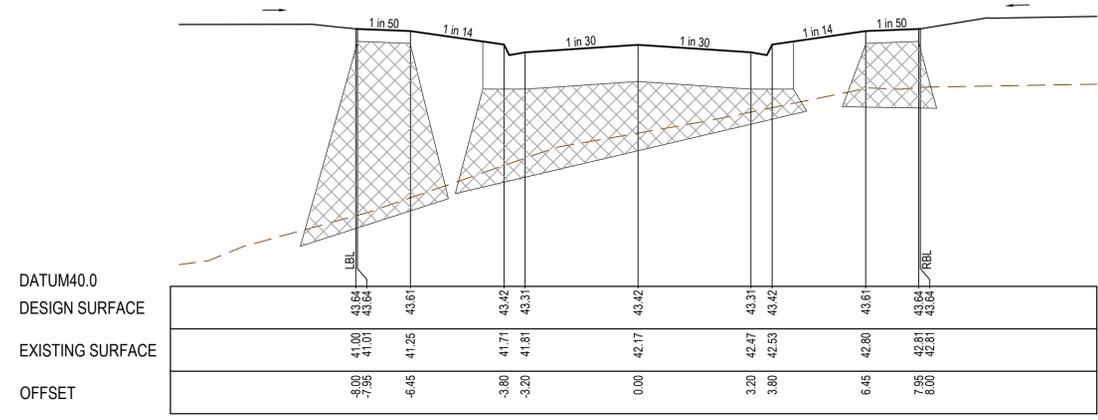
TPCH 121.33



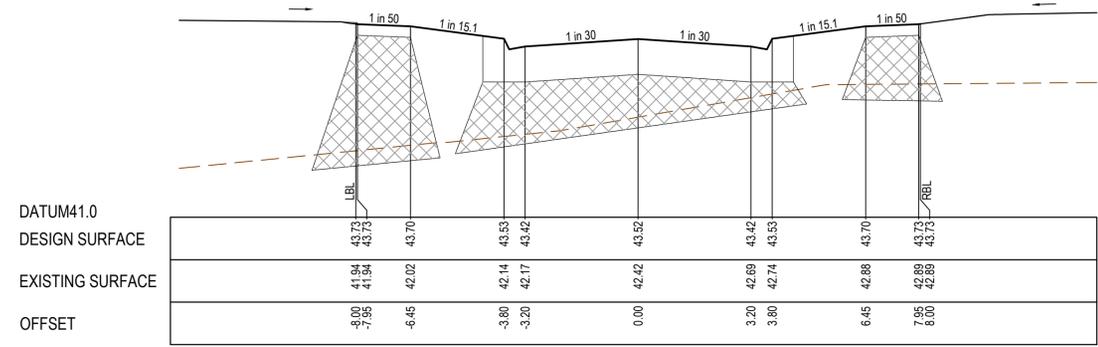
CH 112.13



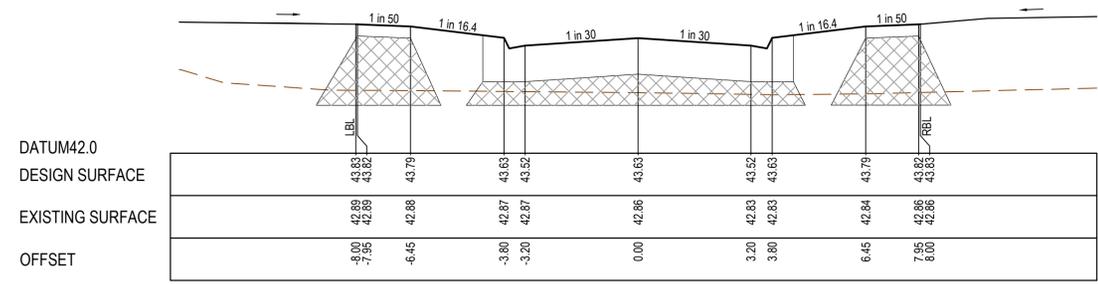
CH 197.33



CH 187.13



CH 176.63



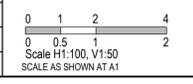
CH 166.13

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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DRAFTER	D.Rapson		
DESIGNER	A.Famili		
CHECKED	C.Sexton		
AUTHORISED	C.Sexton		
REFERENCE No. 1			
REFERENCE No. 2			



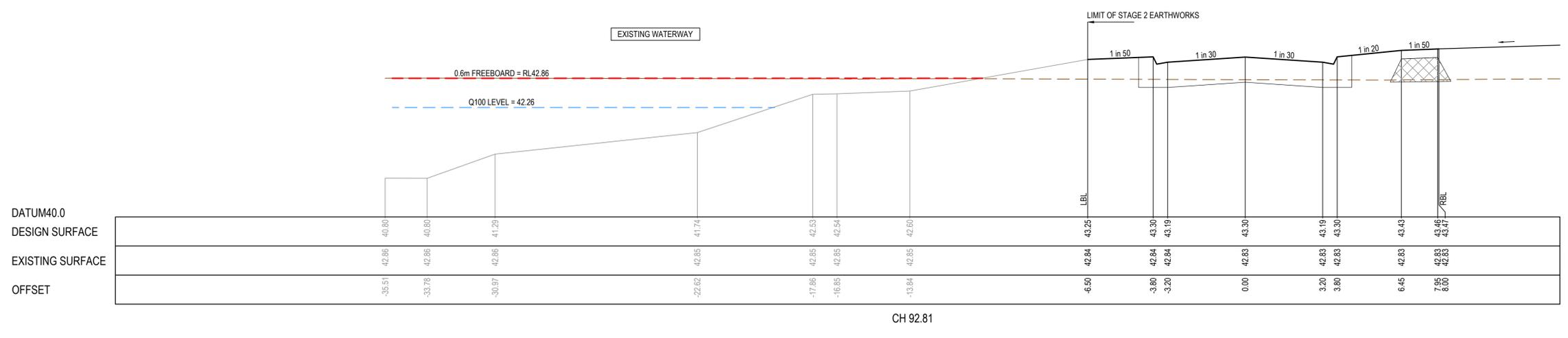
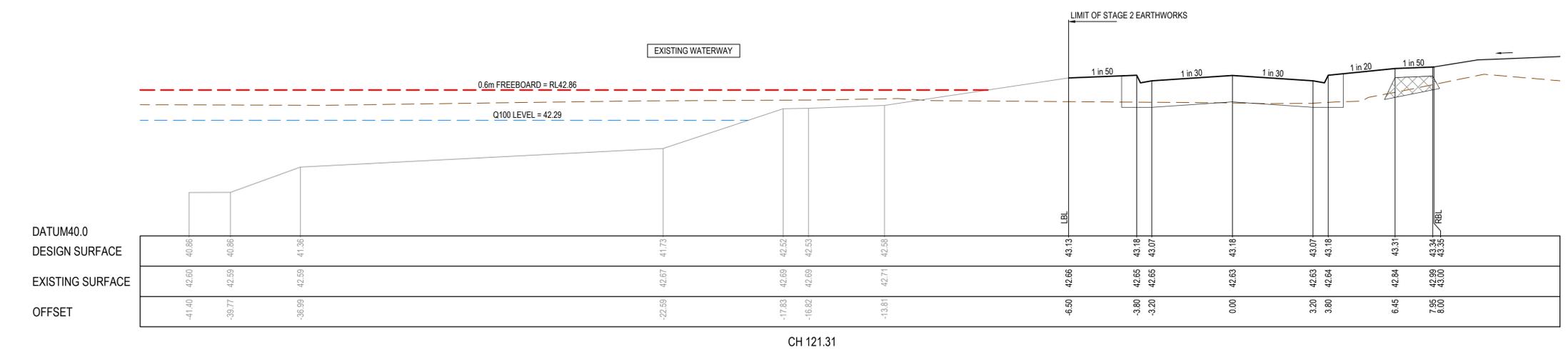
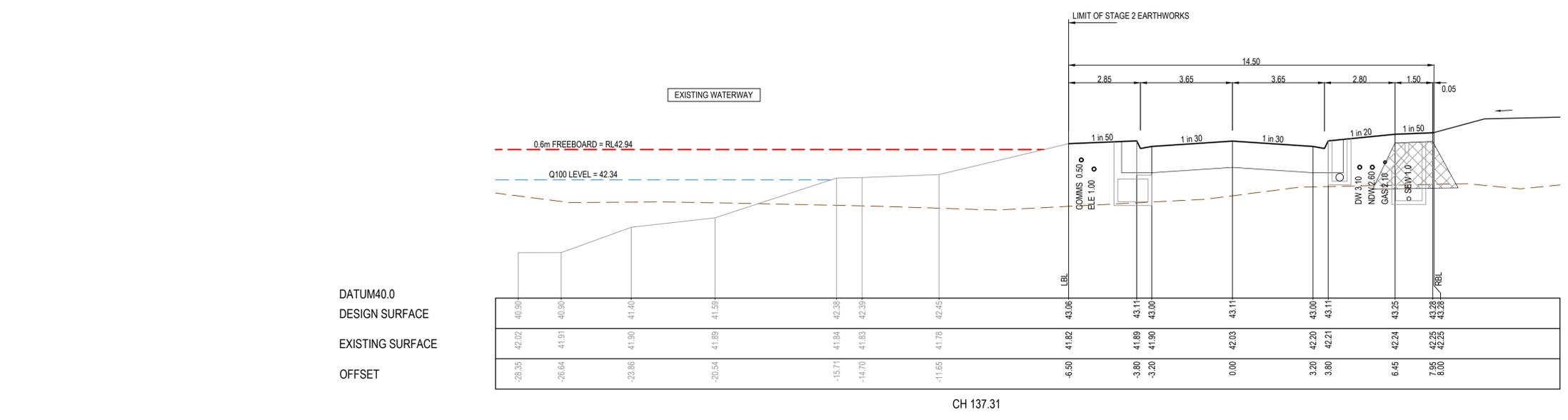
SMEC
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Ph 03 9514 1500

ALAMORA
Tarnait

Alamora Estate, Sayers Road, Tarnait - Stage 2
Wyndham City Council
Road and Drainage
Cross Sections: Alister Grove

MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-08	SHEET No. 08 of 19	REVISION 0
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



AS CONSTRUCTED PLANS

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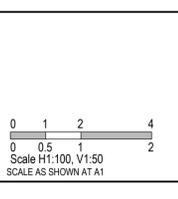
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Site Management AS/NZS 1800
Environmental Management ISO 14001

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TITLE	NAME
DRAFTER	D.Rapson
DESIGNER	A.Famili
CHECKED	C.Sexton
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



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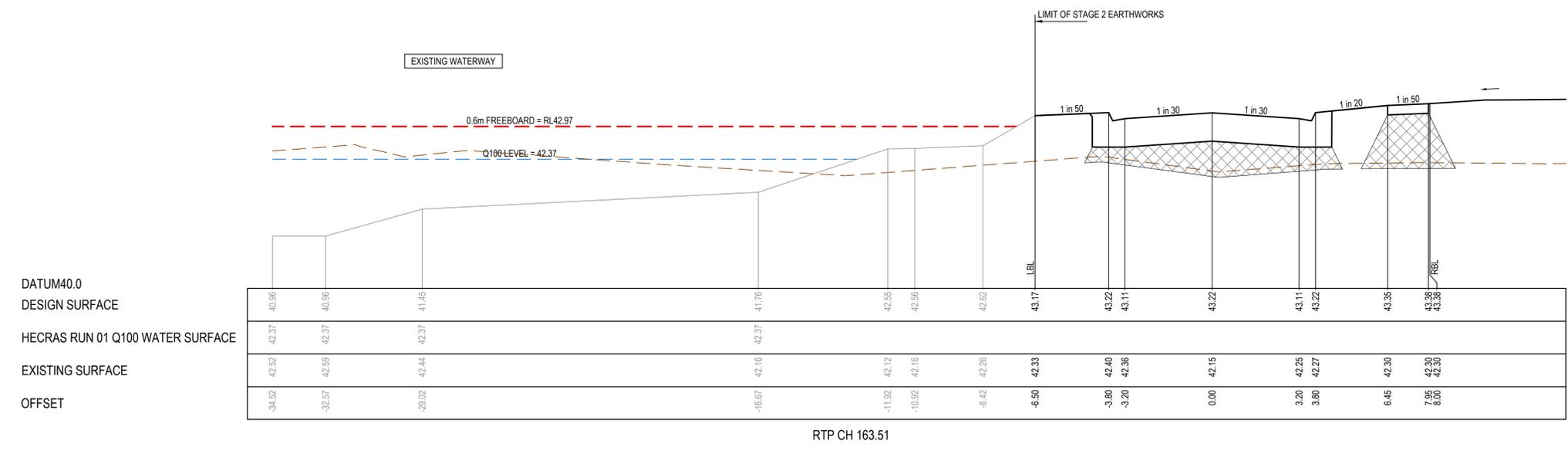
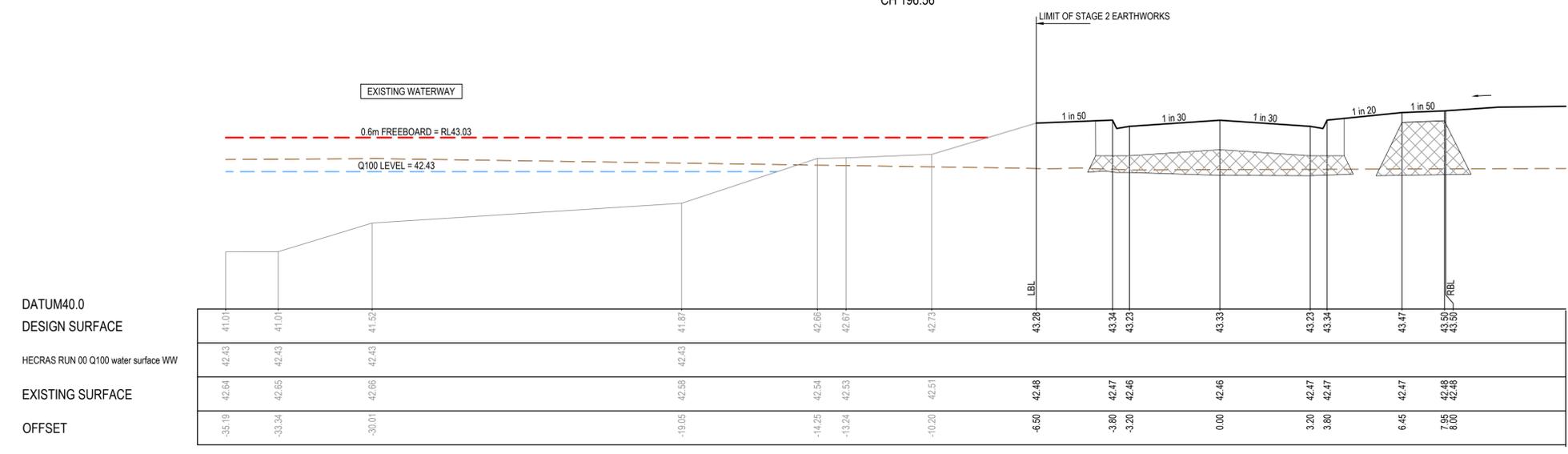
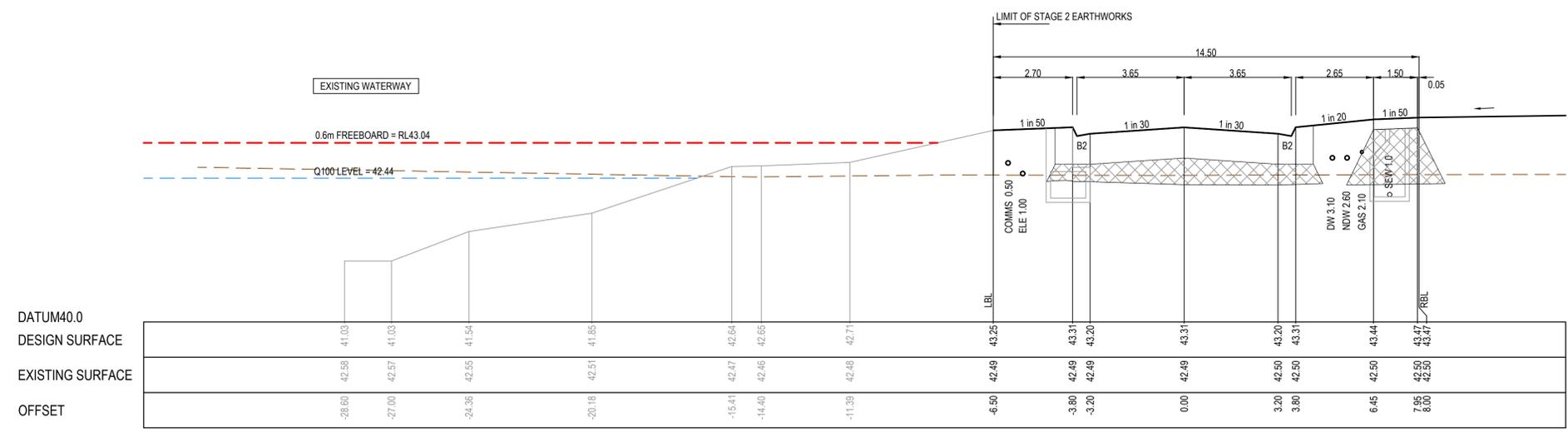
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Melbourne, VIC 3008
Ph 03 9514 1500

ALAMORA
Tarnait

Alamora Estate, Sayers Road, Tarnait - Stage 2
Wyndham City Council
Road and Drainage
Cross Sections: Coronado Way CH92.81-CH137.31

MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-09	SHEET No. 09 of 19	REVISION 0
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CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



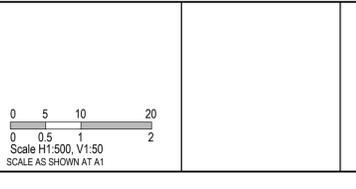
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 OHS Management AS/NZS 1801
 Environmental Management ISO 14001
 Logo Copy

TITLE	NAME
DRAFTER	D.Rapson
DESIGNER	A.Famili
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AUTHORISED	C.Sexton
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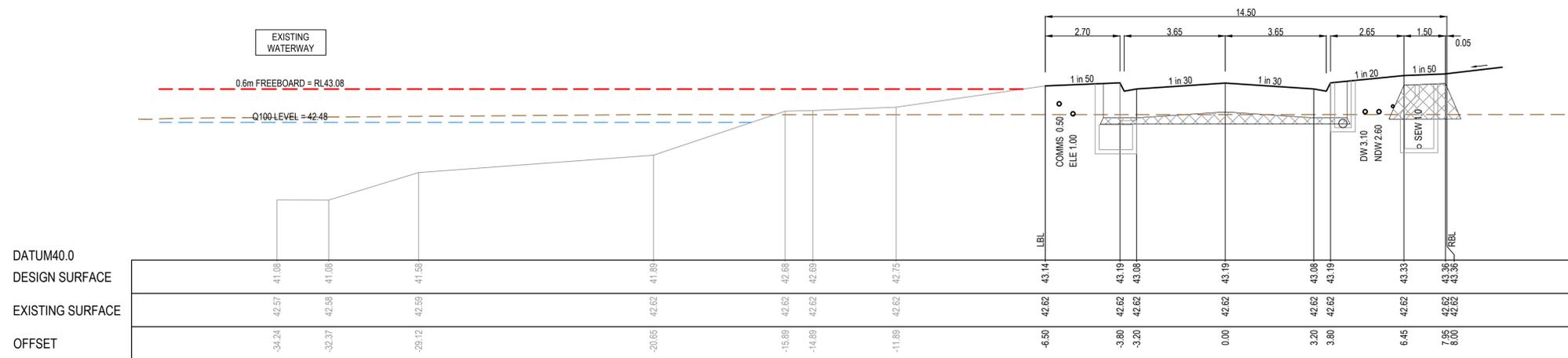
SMEC
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ALAMORA
 Tarnait

Alamora Estate, Sayers Road, Tarnait - Stage 2
 Wyndham City Council
 Road and Drainage
 Cross Sections: Coronado Way CH163.51-CH196.56

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D5	2070E-A02-10	10 of 19	0

CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



EOB CH 219.56

AS CONSTRUCTED PLANS
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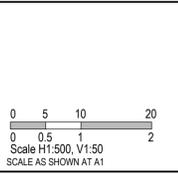
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 OHS Management - AS/NZS 4500
 Environmental Management - ISO 14001

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TITLE	NAME
DRAFTER	D.Rapson
DESIGNER	A.Famili
CHECKED	C.Sexton
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

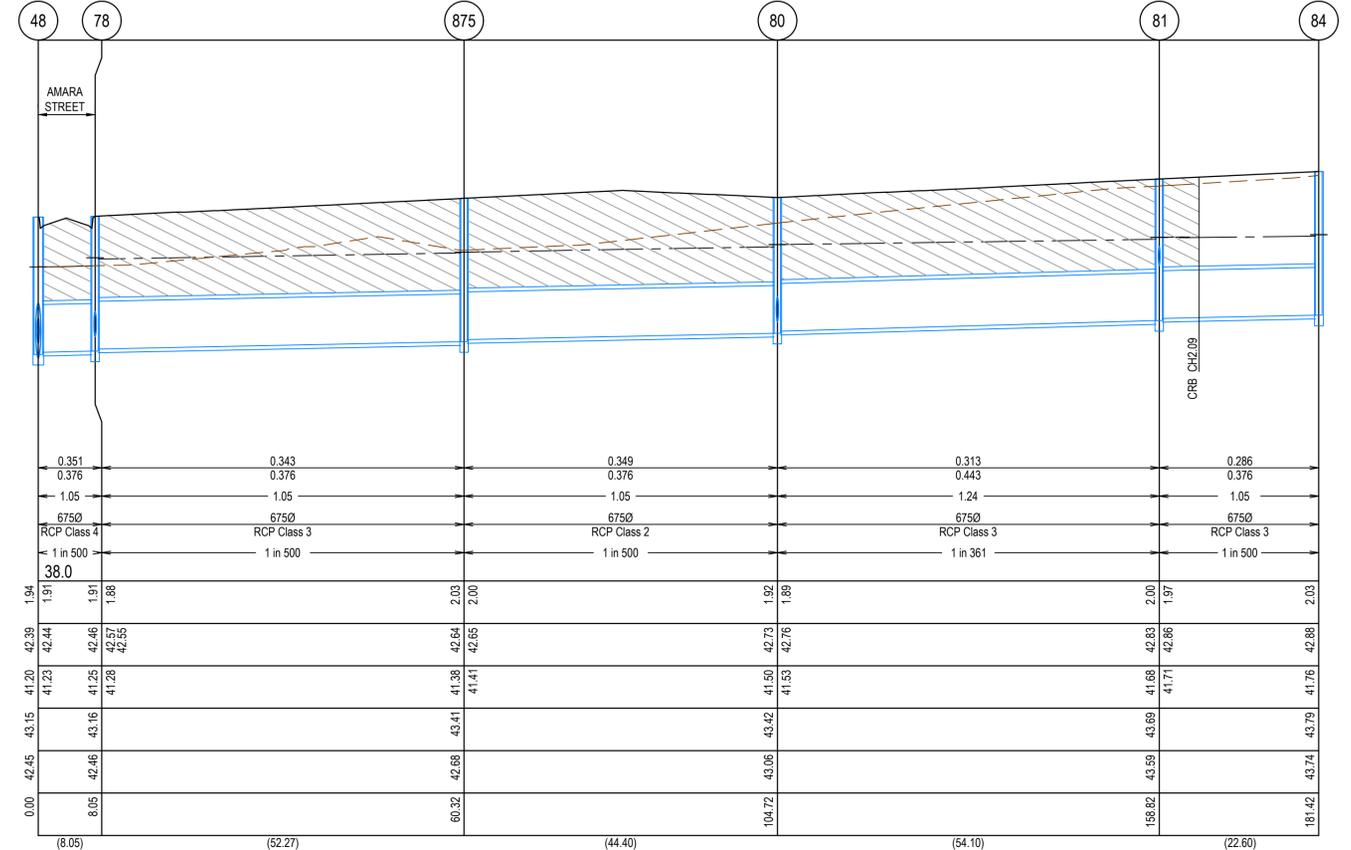
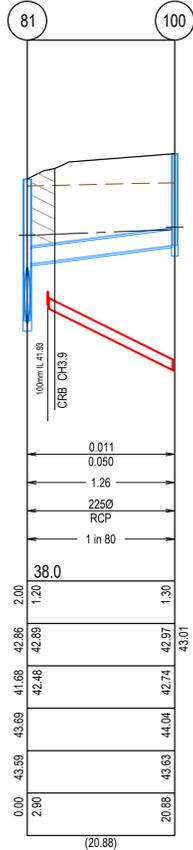
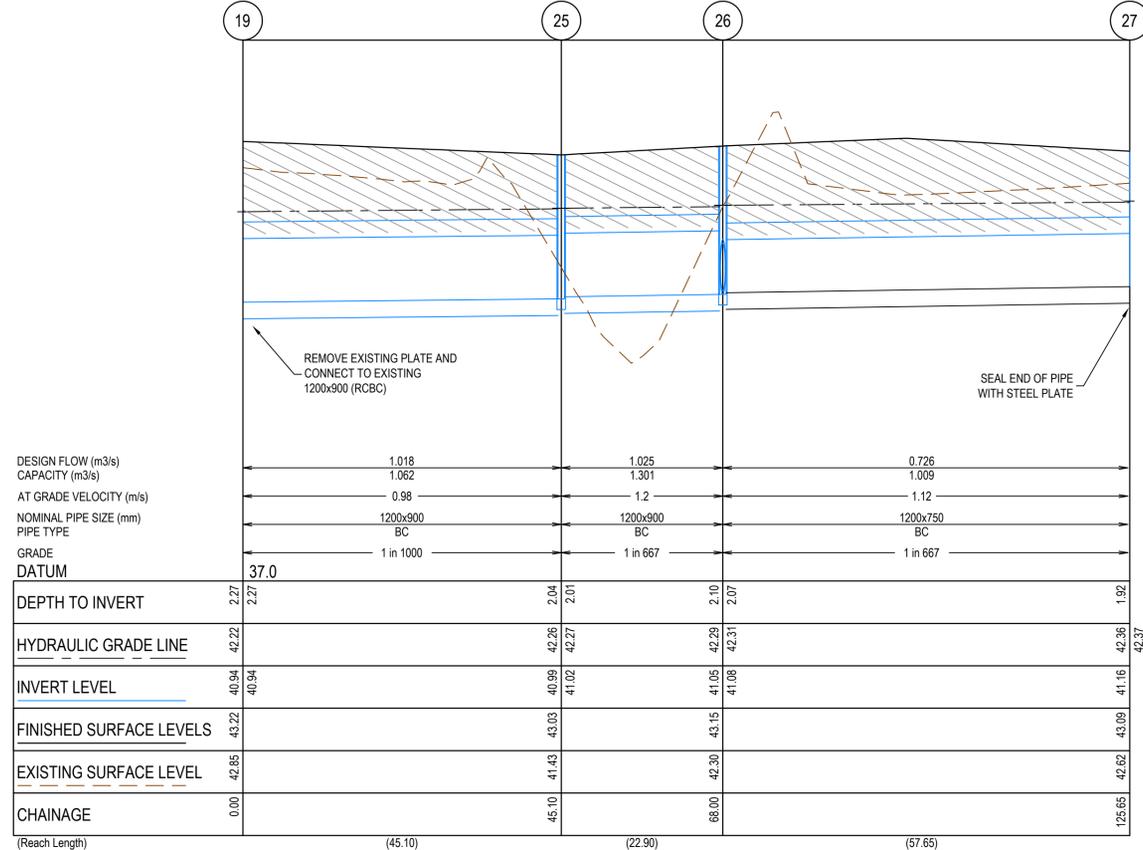
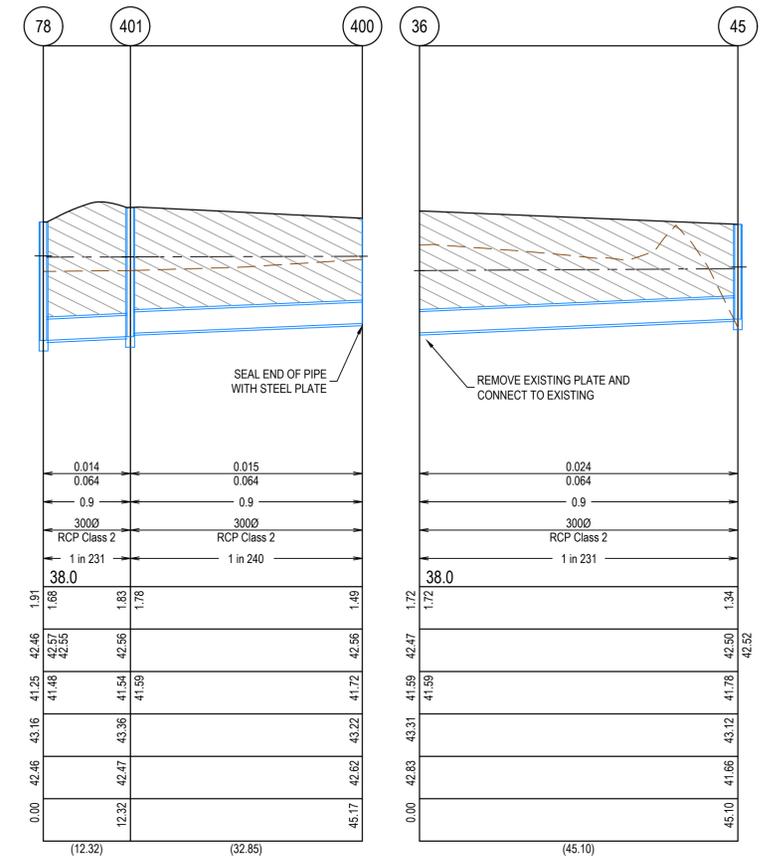
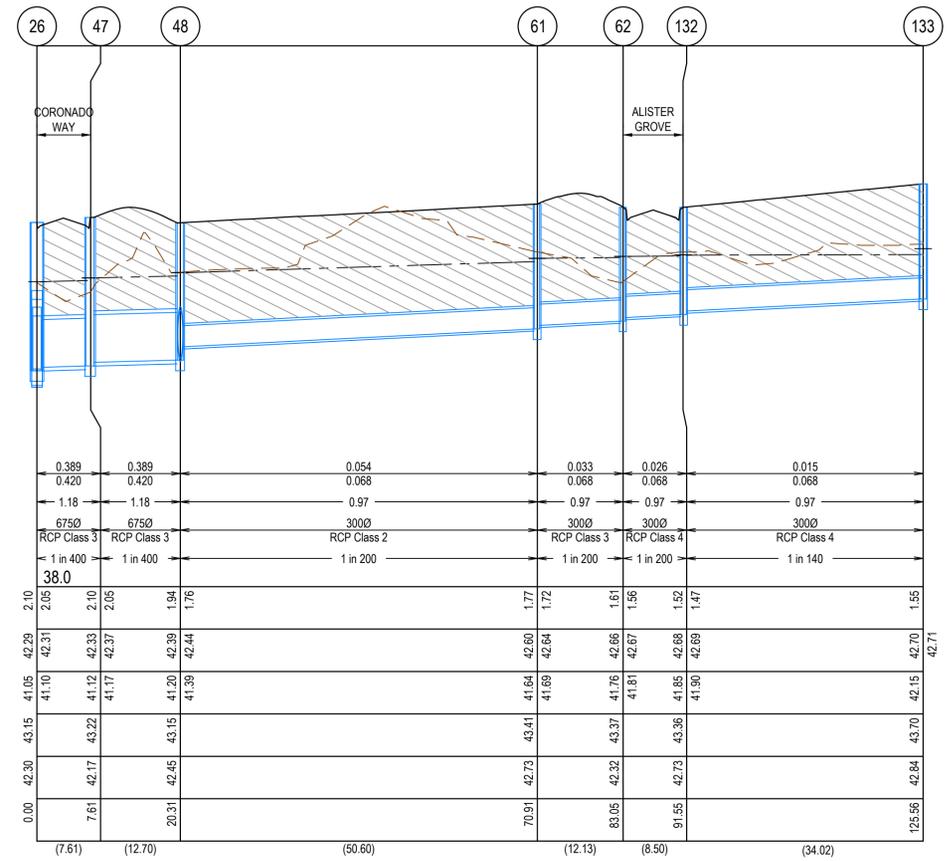
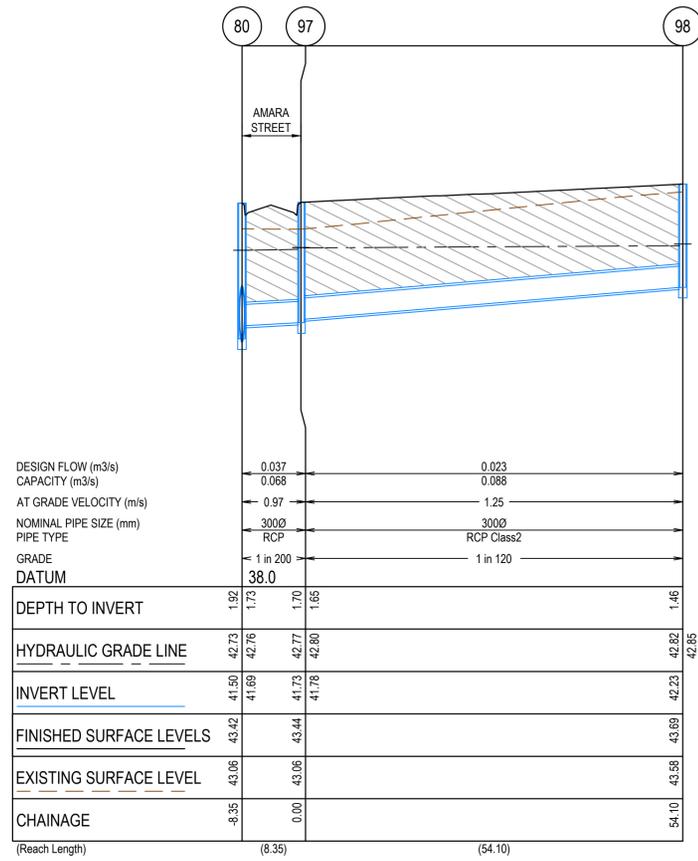


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ALAMORA
 Tarnait

Alamora Estate, Sayers Road, Tarnait - Stage 2 Wyndham City Council Road and Drainage Cross Sections: Coronado Way CH219.56	
MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-11
SHEET No. 11 of 19	REVISION 0

CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

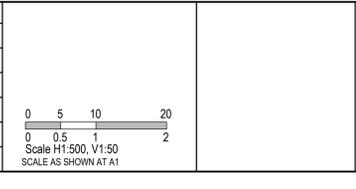


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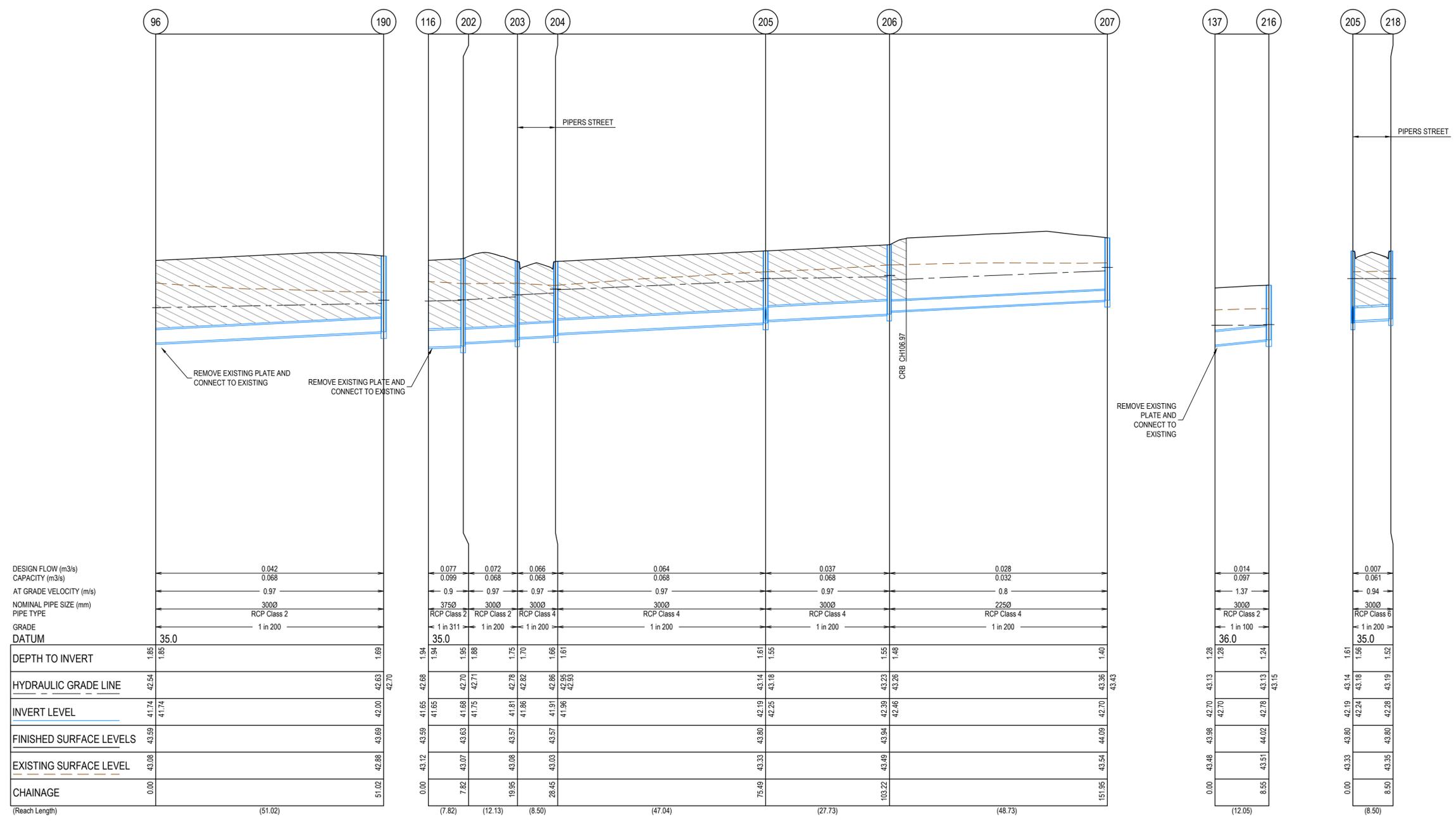
TITLE	NAME
DRAFTER	D.Rapson
DESIGNER	A.Famili
CHECKED	C.Sexton
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



Alamora Estate, Sayers Road, Tarnait - Stage 2
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D5	2070E-A02-13	13 of 19	3

CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



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 OHS Management AS/NZS 1800
 Environmental Management ISO 14001
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DESIGNER	A.Famili
CHECKED	C.Sexton
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

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Alamora Estate, Sayers Road, Tarneit - Stage 2
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 2

MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-14	SHEET No. 14 of 19	REVISION 2
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	PIT	INTERNAL		INLET		OUTLET		PIT			
NAME	TYPE	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	STD DWG	REMARKS
25	DOUBLE SIDE ENTRY PIT	1650	900	900	41.02	900	40.99	43.03	2.04	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
26	SIDE ENTRY PIT	1650	900	750	41.08	900	41.05	43.15	2.1	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
				675	41.1						
27	ENDPIPE			750	41.16	750	41.16		1.92		
36	ENDPIPE			300	41.59	300	41.59		1.73		
45	DOUBLE SIDE ENTRY PIT	600	900			300	41.78	43.13	1.34	EDCM 602	
48	DOUBLE SIDE ENTRY PIT	1200	900	675	41.23	675	41.2	43.15	1.94	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
				300	41.39						
78	DOUBLE SIDE ENTRY PIT	900	900	675	41.28	675	41.25	43.16	1.91	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
				300	41.48						
875	SIDE ENTRY PIT	900	900	675	41.42	675	41.39	43.41	2.03	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
80	DOUBLE SIDE ENTRY PIT	900	900	675	41.53	675	41.5	43.42	1.92	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
				300	41.69						
81	SIDE ENTRY PIT	900	900	675	41.71	675	41.68	43.69	2	EDCM 601 & 607	CONSTRUCT AS JUNCTION PIT WITH MALTHOID JOINT FOR FUTURE CONVERSION TO SIDE ENTRY PIT & PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT.
				225	42.48						
84	JUNCTION PIT	1200	900	675	41.789	675	41.759	43.792	2.033	EDCM 605	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT. PROVIDE BLOCKOUTS IN NORTHERN PIT WALL AT IL41.789 AND EASTERN PIT WALL AT IL42.134 FOR FUTURE CONNECTIONS
				300	42.134						
97	DOUBLE SIDE ENTRY PIT	600	900	300	41.78	300	41.73	43.44	1.7	EDCM 602	
19	ENDPIPE			900	40.94	900	40.94		2.27		
98	SIDE ENTRY PIT	600	900			300	42.23	43.69	1.46	EDCM 601	CONSTRUCT AS JUNCTION PIT WITH MALTHOID JOINT FOR FUTURE CONVERSION TO SIDE ENTRY PIT.
100	JUNCTION PIT	600	900			225	42.95	44.04	1.09	EDCM 605	
47	JUNCTION PIT	1350	900	675	41.17	675	41.12	43.22	2.1	EDCM 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
61	SIDE ENTRY PIT	600	900	300	41.7	300	41.65	43.41	1.77	EDCM 601	
62	DOUBLE SIDE ENTRY PIT	600	900	300	41.81	300	41.76	43.37	1.61	EDCM 602	
132	DOUBLE SIDE ENTRY PIT	600	900	300	41.9	300	41.85	43.37	1.52	EDCM 602	
133	JUNCTION PIT	600	900			300	42.15	43.7	1.55	EDCM 605	
401	JUNCTION PIT	600	900	300	41.59	300	41.54	43.36	1.83	EDCM 605	
400	ENDPIPE			300	41.72	300	41.72		1.49		
96	ENDPIPE			300	41.74	300	41.74		1.85		
190	SIDE ENTRY PIT	600	900			300	42	43.69	1.69	EDCM 601	
116	ENDPIPE			375	41.65	375	41.65		1.94		
202	JUNCTION PIT	600	900	300	41.75	375	41.68	43.63	1.95	EDCM 605	
203	DOUBLE SIDE ENTRY PIT	600	900	300	41.86	300	41.81	43.57	1.75	EDCM 602	
204	DOUBLE SIDE ENTRY PIT	600	900	300	41.96	300	41.91	43.57	1.66	EDCM 602	
205	SIDE ENTRY PIT	600	900	300	42.25	300	42.19	43.8	1.61	EDCM 601	
				288	42.24						
206	SIDE ENTRY PIT	600	900	225	42.46	300	42.39	43.94	1.55	EDCM 601	
207	JUNCTION PIT	600	900			225	42.7	44.09	1.4	EDCM 605	
137	ENDPIPE			300	42.7	300	42.7		1.28		
216	JUNCTION PIT	600	900			300	42.79	44.02	1.24	EDCM 605	
218	SIDE ENTRY PIT	600	900			300	42.28	43.8	1.52	EDCM 601	

AS CONSTRUCTED PLANS

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 OHS Management - AS/NZS 4501
 Environmental Management - ISO 14001

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TITLE	NAME
DRAFTER	D.Rapson
DESIGNER	A.Famili
CHECKED	C.Sexton
AUTHORISED	C.Sexton
REFERENCE No. 1	
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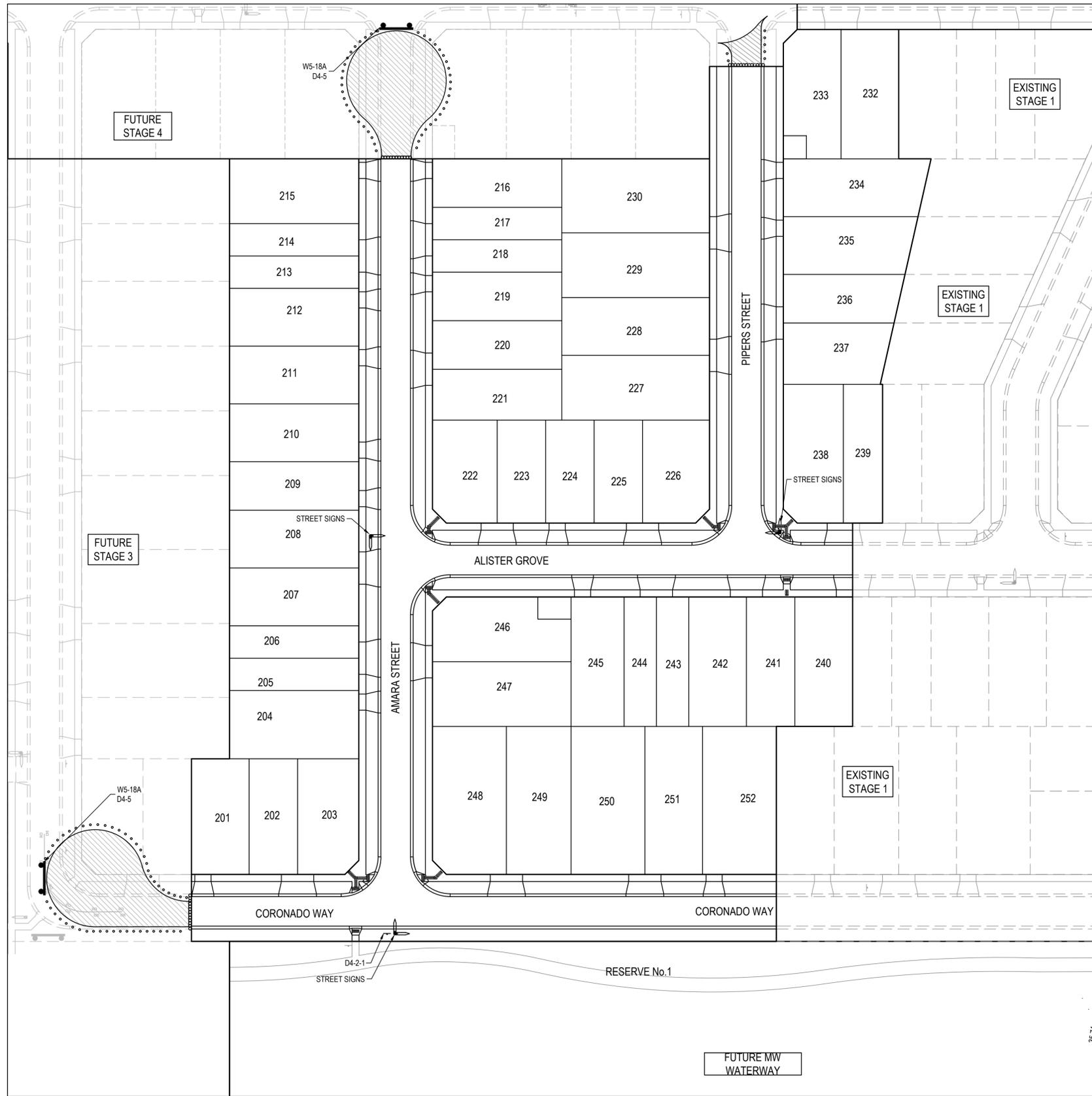
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 Ph 03 9514 1500

ALAMORA
Tarneit

Alamora Estate, Sayers Road, Tarneit - Stage 2
 Wyndham City Council
 Road and Drainage
 Pit Schedule

MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-15	SHEET No. 15 of 19	REVISION 4
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LEGEND - SIGN AND LINEMARKING
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	GIVE WAY
R1-2A 	ROAD ENDS
W5-18A 	HAZARD MARKER
D4-5 	DIRECTIONAL HAZARD MARKER

WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works. **DIAL 1100 BEFORE YOU DIG**
www.1100.com.au

- NOTES**
- 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMS AT MAX 6m SPACING.
 - RRPMS TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL 2.
 - ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

AS CONSTRUCTED PLANS
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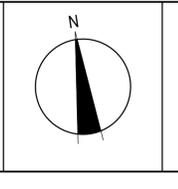
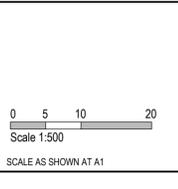
OH&S Management - AS/NZS 1801

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Environmental Management - ISO 14001

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TITLE	NAME
DRAFTER	D.Rapson
DESIGNER	A.Famili
CHECKED	C.Sexton
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



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Alamora Estate, Sayers Road, Tarneit - Stage 2 Wyndham City Council Road and Drainage Signage & Linemarking Plan		MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-16	SHEET No. 16 of 19	REVISION 2
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300 VPD - PIPERS STREET, CORONADO WAY, ALISTER GROVE AND AMARA STREET PAVEMENT COMPOSITION

520mm DEPTH PAVEMENT COMPOSITION		LAYER THICKNESS (mm)	MATERIAL
ASPHALT	WEARING COURSE	20	SIZE 7 TYPE L CLASS 320 ASPHALT
	INTERMEDIATE COURSE	30	SIZE 10 TYPE N CLASS 320 ASPHALT
	BASE COURSE	-	-
	SAMI SEAL	10	SIZE 10 SAMI SEAL S18RF
	BITUMINOUS PRIME	7	BITUMINOUS PRIME
BASE COURSE	BASE	140	SIZE 20 CLASS 2 CRUSHED ROCK, COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289, 5.2.1
SUBBASE COURSE	LOWER BASE COURSE	130	SIZE 20 CLASS 3 CRUSHED ROCK, COMPACTED TO A MINIMUM DENSITY RATIO OF 96% (MODIFIED) AS1289, 5.2.1
CAPPING	CAPPING LAYER	200	RIPPED ROCK OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY k < 1x10 ⁻⁷ m/s AND SWELL < 1.5% MATERIAL, COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1
SUBGRADE/CONSTRUCTION LAYER	SUBGRADE/CONSTRUCTION LAYER	200	RIPPED ROCK OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY k < 1x10 ⁻⁷ m/s AND SWELL < 1.5% MATERIAL, COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1

NOTE
 ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY TONKIN AND TAYLOR. SMEC IS NOT RESPONSIBLE FOR GEOTECHNICAL OR PAVEMENT RELATED DESIGNS AND IS NOT RESPONSIBLE FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THESE DESIGNS. THE PAVEMENT COMPOSITIONS SHOWN ON THIS DRAWING HAVE BEEN REPRODUCED FROM THE PAVEMENT REPORT FOR THIS DEVELOPMENT STAGE. THIS DOCUMENT SHOULD BE REVIEWED BY THE CONTRACTOR TO ENSURE DESIGN HAS BEEN INTERPRETED CORRECTLY. A COPY OF THIS DOCUMENT WILL BE MADE AVAILABLE ON REQUEST. ANY DIFFERENCES FROM THIS REQUIREMENTS SHOWN ARE TO BE NOTIFIED TO THE SUPERINTENDENT BEFORE PROCEEDING.

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AS CONSTRUCTED

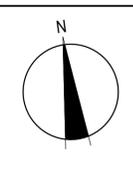
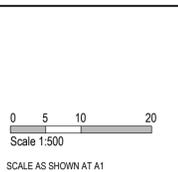
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Environmental Management - ISO 14001
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TITLE	NAME
DRAFTER	D.Rapson
DESIGNER	A.Famili
CHECKED	C.Sexton
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

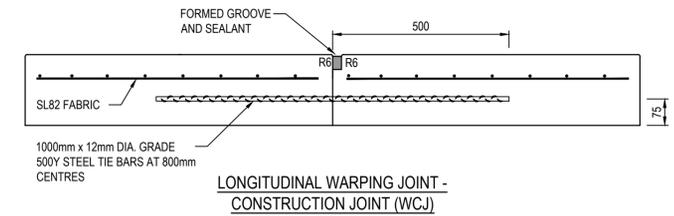
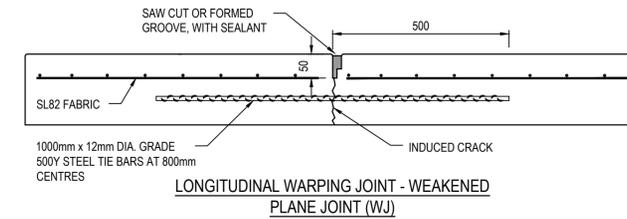
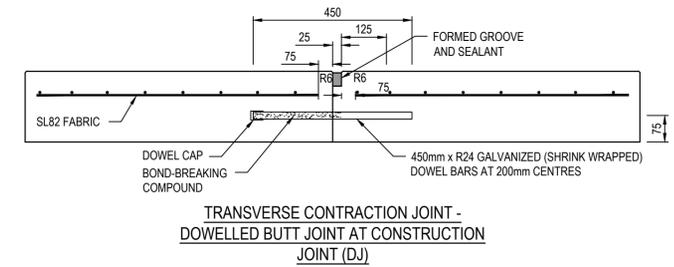
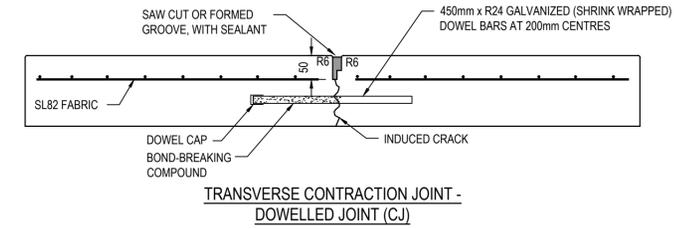
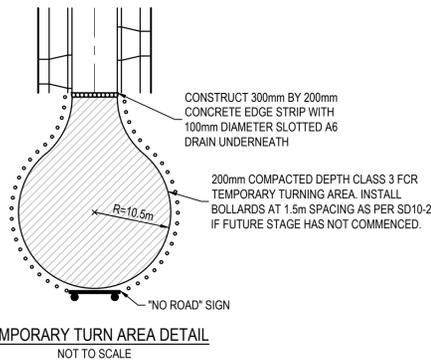
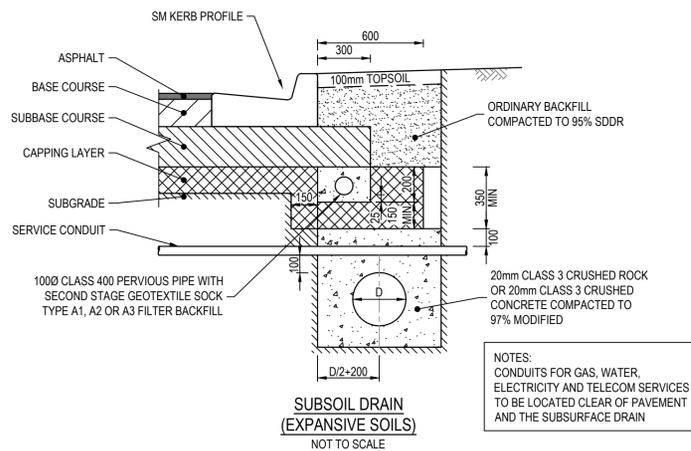
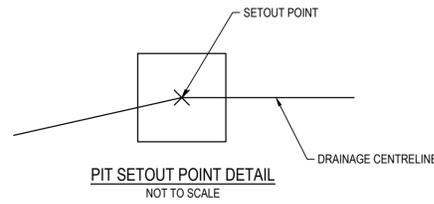
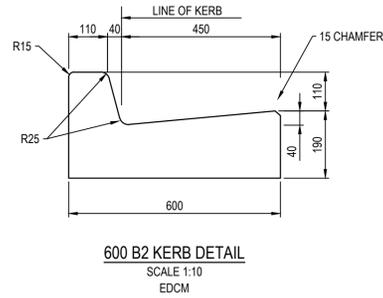
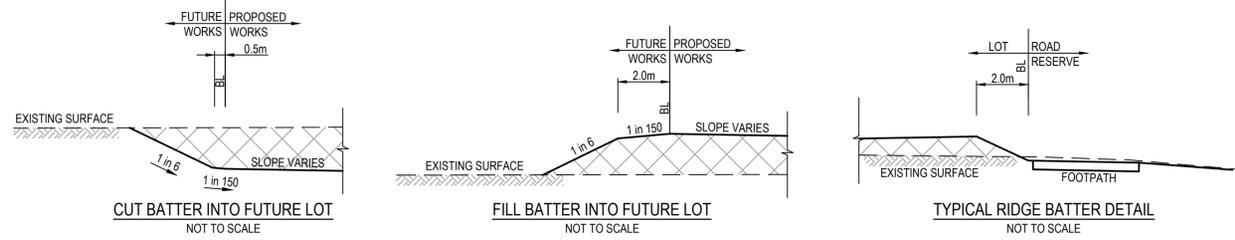


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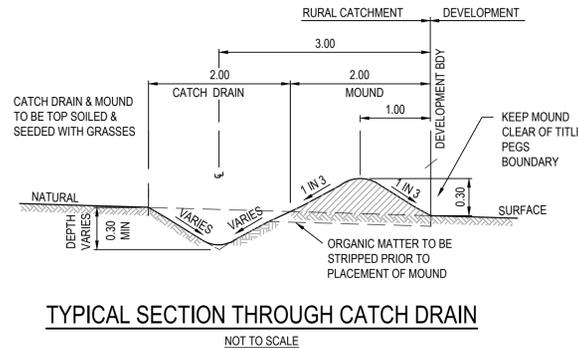
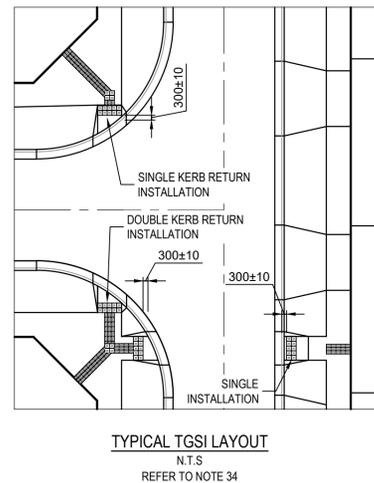
Alamora Estate, Sayers Road, Tarnait - Stage 2
 Wyndham City Council
 Road and Drainage
 Pavement Details

MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-17	SHEET No. 17 of 19	REVISION 1
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CONCRETE JOINTING DETAILS
NOT TO SCALE

- NOTES:
- CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICKED UNTIL AT LEAST SEVEN DAYS AFTER POURING.



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Quality Management ISO 9001
 OHS Management AS/NZS 4801
 Environmental Management ISO 14001

TITLE	NAME
DRAFTER	D.Rapson
DESIGNER	A.Famili
CHECKED	C.Sexton
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

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ALAMORA
Tarnait

Alamora Estate, Sayers Road, Tarnait - Stage 2
 Wyndham City Council
 Road and Drainage
 General Notes & Details

MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-18	SHEET No. 18 of 19	REVISION 0
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Project Name: Alamora Stage 2	Design Package: 2070E-A02
	Date: 14/04/2020

PHASE	DISCIPLINE CODE	RISK REGISTER -Construction- Operations- Maintenance POTENTIAL RISK	RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESSED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED YES/NO	Residual Risk Likelihood (0-5)	Residual Risk Consequence (0-5)	Residual Risk Rating	RESIDUAL RISK OWNER	
		Road Furniture / Roadside features										
Construction	RD Roads	Construction close to live traffic	Contractor	New works will be constructed adjacent to live traffic when abutting existing stages.	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5.000	3.000	15.000	Constructor
Construction	US Utilities or Services	Utilities become a hazard within clear zones	Contractor	Vehicle conflict with utility / pit	Personal injury, vehicle damage	Sequence works and protect with temp barrier or traffic control (TCP)	TCP provided within contract	N	1.000	5.000	5.000	Constructor
Operational	RD Roads	Sight Lines	Road Authority	Inadequate drivers response time.	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Vis lines checked and discussed with approval authority as part of design approval process	N	1.000	4.000	4.000	Road Authority
Operational	LS Lines and Signs	Signs and street lights	Road Authority	Potential for drivers / riders to strike signs and street lights	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Refer to appropriate standard for sign and lighting offsets	N	1.000	4.000	4.000	Road Authority
Operational	RD Roads	Culverts	Relevant Authority	Potential fall hazard during maintenance, by vehicles and pedestrians	Falling from a height	Barriers to be provided in accordance with road standards	Barriers to be provided and safe batter slopes (>1:3)	N	2.000	5.000	10.000	Constructor
		Drainage										
Operational	DR Drainage	Grated Pits	Relevant Authority	Trip/fall hazard with large spaced grate	Increased potential for accidents	Provide pedestrian/bicycle friendly grates where applicable. Refer to pit schedule	Design in accordance with authority and manufacturers standards	N	3.000	2.000	6.000	Authority
Operational	DR Drainage	Non Standard Large Pits	Relevant Authority	Potential for pit failure	Increased risk to maintenance crews/ vehicles	Structural design in accordance with relevant design principles.	Refer to structural drawings and calculations	N	1.000	4.000	4.000	Authority
Operational	DR Drainage	Culvert Endwalls/Headwalls	Relevant Authority	Potential for falling from height	Increased potential for accidents	Fencing to be provided where culverts/headwalls are at height in accordance with relevant authority standards	Allow for fencing in Design Process	N	1.000	4.000	4.000	Authority
Operational	DR Drainage	Culvert Endwall/Headwall Outlets	Relevant Authority	Children playing in large pipes / watercourses and access for maintenance	Increased potential for accidents	Grate provided to authority standards	Design in accordance with authority and manufacturers standards	N	2.000	5.000	10.000	Authority
Maintenance	DR Drainage	Access to Pits	Relevant Authority	Lack of safe access for maintenance	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Provide safe landing/ access arrangements as per relevant authority standards	Where possible design pit in location for easy access and outside of permanent water bodies	N	2.000	5.000	10.000	Authority
Maintenance	DR Drainage	Deep Pits	Relevant Authority	Lack of safe entry for maintenance	Increased potential for accidents	Contractor to be certified for work in confined spaces, step irons to be provided to appropriate authority standards. Refer to pit schedule	Design in accordance with authority standards	N	1.000	5.000	5.000	Authority
Maintenance	DR Drainage	Access to drains / culverts	Relevant Authority	Lack of safe access for maintenance	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Access as approved by authority	Design pit in location for easy access as agreed with authority	N	2.000	3.000	6.000	
		Sewer										
Maintenance	SE Sewer	Deep Manholes	Relevant Authority	Lack of safe entry for maintenance	Increased potential for accidents	Contractor to be certified for work in confined spaces, landings and step access provided as per authority standards and schedule	Design in accordance with authority standards. Refer pit schedule on drawings	N	1.000	5.000	5.000	Authority
Maintenance	SE Sewer	Access to Manholes	Relevant Authority	Lack of safe access for maintenance	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Manholes located in compliance with authority standards	Where possible design manhole in location for easy access	N	1.000	5.000	5.000	Authority
		Electricity										
Operational	ES Electrical Services	Electrical Design	Relevant Authority	Location of assets within clear zones e.g. pits/ substations	Increased potential for accidents	Electrical designed by sub consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2.000	3.000	6.000	Authority
		Telstra										
Operational	TE Telstra	Telstra Design	Relevant Authority	Location of assets within clear zones e.g. pits	Increased potential for accidents	Telecommunications designed by authority consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2.000	3.000	6.000	Authority
		Water										
Operational	WA Water	Water Design	Relevant Authority	Location of assets within clear zones e.g. pits/ substations	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2.000	3.000	6.000	Authority
		Gas										
Operational	GA Gas	Gas Design	Relevant Authority	Location of assets within clear zones e.g. pits/ substations	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	1.000	1.000	1.000	Authority

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 OHS Management - AS/NZS 1881
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CHECKED	C.Sexton
AUTHORISED	C.Sexton
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SCALE AS SHOWN AT A1

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ALAMORA
Tarneit

Alamora Estate, Sayers Road, Tarneit - Stage 2
 Wyndham City Council
 Road and Drainage
 Safety In Design

MELWAYS REF 234 D5	PROJECT / DRAWING No. 2070E-A02-85	SHEET No. 19 of 19	REVISION 0
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