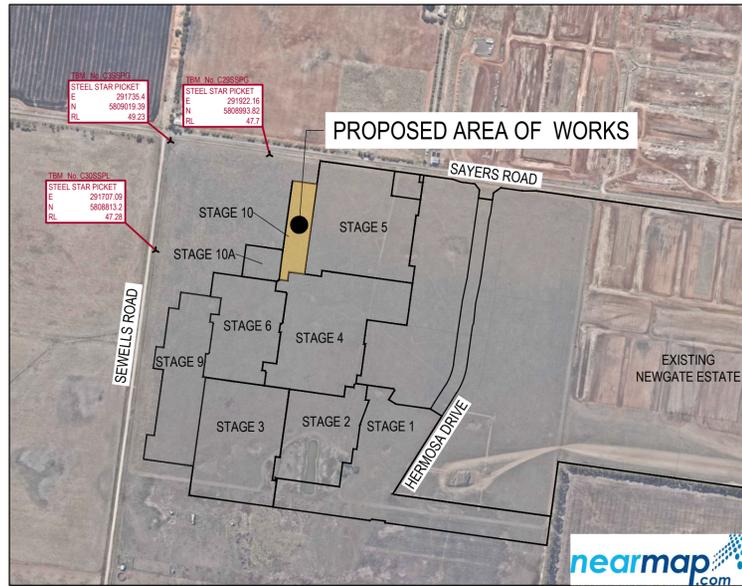


Alamora Estate

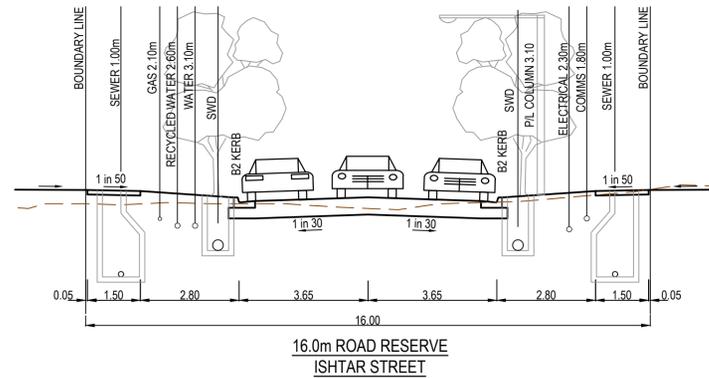
Stage 10, Sayers Road, Tarneit



Locality Plan
N.T.S

Drawing Index

- 2070E-A10-101 Cover Plan & General Notes
- 2070E-A10-111 Layout Plan
- 2070E-A10-131 Earthworks Plan
- 2070E-A10-171 Signage & Linemarking Plan
- 2070E-A10-201 Road Longitudinal Sections
- 2070E-A10-251 Cross Sections: Ishtar Street
- 2070E-A10-301 Drainage Longitudinal Sections - 1
- 2070E-A10-302 Drainage Longitudinal Sections - 2
- 2070E-A10-351 Pit Schedule
- 2070E-A10-411 Pavement & General Details
- 2070E-A10-500 Safety In Design



SERVICES OFFSET TABLE					
ROAD NAME	GAS	WATER	RECYCLED WATER	ELECTRICITY	OPTIC FIBRE
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
ISHTAR STREET	2.10 W	3.10 W	2.60 W	2.50 E	1.80 E

ROAD LAYOUT TABLE								
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	STH/EAST	NTH/WEST	STH/EAST
ISHTAR STREET	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20

SURVEY CONTROL POINTS				
POINT	EASTING	NORTHING	RL (AHD)	DESCRIPTION
C3SSPG	291,735.4	5,809,019.39	49.23	STEEL STAR PICKET
C29SSPG	291,922.16	5,808,993.82	47.7	STEEL STAR PICKET
C30SSPL	291,707.09	5,808,813.2	47.28	STEEL STAR PICKET

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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-A10-500
ASSESS THE RISK - STAY SAFE

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GENERAL NOTES (WYNDHAM CITY COUNCIL)

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDM ADDENDUM STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, Dewatering devices, barricades, signs, lights, etc. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
3. THE CONTRACTOR SHALL:
 - 3.1. COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
 - 3.2. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - 3.3. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEDS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
7. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS E,G,H,R,T&W ABOVE CONDUIT LOCATIONS AS SPECIFIED, RESPECTIVE LETTERS TO BE INDICATED ABOVE RELEVANT CONDUITS AS PER STANDARD DRAWING EDM 303. CONDUITS TO BE PLACED MINIMUM OF 5m FROM BOUNDARIES WHERE POSSIBLE AND TO THE SATISFACTION OF THE SUPERINTENDENT IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
8. SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL AS PER STANDARD DRAWINGS EDM 202A (EXPANSIVE SUBGRADE).
9. ALL LINEMARKING, SIGNING AND TRAFFIC CONTROL DEVICES TO BE IN ACCORDANCE WITH VICROADS REQUIREMENTS WITH LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGAOUR OR PASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VICROADS SPECIFICATION SEE SECTION 710&722).
10. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
11. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES SHALL BE SURFACED WITH A 100mm MINIMUM TO 200mm MAXIMUM LAYER OF TOPSOIL AS SPECIFIED. ALL FILLING ON ALLOTMENTS TO BE COMPACTED TO 95% STANDARD COMPACTION IN 150mm LAYERS AND AS PER THE SPECIFICATION, WHERE THERE IS FILL IN EXCESS OF 300mm IN DEPTH, THE CONTRACTOR IS TO CARRY OUT SOIL TESTS TO THE REQUIREMENTS OF APPENDIX B AS SPECIFIED IN THE AUSTRALIAN STANDARD AS 3798 TO SHOW THAT LEVEL 1 COMPACTION STANDARDS HAVE BEEN ACHIEVED. TEST RESULTS AND LOCATION OF TESTS FOR EACH ALLOTMENT SHALL BE APPROVED BY THE CONTRACTOR AND FORWARDED TO COUNCIL.
12. FILL MATERIAL USED UNDER PAVEMENTS AND FOOTPATHS MUST BE AN APPROVED MATERIAL TO THE STANDARD OF WYNDHAM CITY COUNCIL. ALL SUCH MATERIAL IS TO BE COMPACTED AS PER THE REQUIREMENTS OF THE SPECIFICATION APPROVED WITH THESE DRAWINGS PRIOR TO FORMWORK BEING PLACED. COMPACTION TESTS TO BE COMPLETED AND PROVIDED TO SUPERINTENDENT.
13. FILL & CUT BATTERS ARE NOT TO EXCEED 1 in 6 SLOPE, UNLESS SHOWN OTHERWISE.
14. ALL ALLOTMENTS SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE WITH A MINIMUM FALL OF 1 in 150 TO THE DRAINAGE OUTLET SHOWN.
15. ALL DRAINAGE PIPES ARE CLASS 2 RCP PIPES, RUBBER RING JOINTED UNLESS OTHERWISE SPECIFIED.
16. DRAINAGE PITS SHALL BE CAST MONOLITHICALLY. CEMENT RENDER SHALL ONLY BE USED TO REPAIR DEFECTS.
17. BACKFILLING OF TRENCHES WHERE DRAINAGE AND SEWERAGE ARE IN CLOSE PROXIMITY ARE TO BE BACKFILLED AS PER WYNDHAM CITY COUNCIL STANDARD DRAWING SD6-10.
18. ALL SERVICING TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 2 F.C.R.
19. ALL HOUSE DRAIN CONNECTIONS TO BE INSTALLED AT 6m FROM THE LOW SIDE BOUNDARY U.N.O.
20. INVERT OF PROPERTY INLETS TO BE 500mm MINIMUM BELOW FINISHED SURFACE U.N.O.
21. VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS EDM 501 TO 503. DRIVEWAYS TO BE LOCATED MIN 0.75m FROM BUILDING LINE UNLESS SPECIFIED OTHERWISE AND CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. DOUBLE DRIVEWAY WIDTH TO BE 7.0m AT FRONT OF PATH/BUILDING LINE.
22. ADDITIONAL AND OVER-EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
23. FOOTPATH CROSSFALL TO BE 1:50
24. ALL FOOTPATHS AND SHARED PEDESTRIAN/BICYCLE PATHS ARE TO BE CONSTRUCTED AS PER WYNDHAM CITY COUNCIL SPECIFICATIONS AND MPA STANDARD DRAWINGS EDM 401 TO 403.
25. ALL EXOTIC (NON NATIVE) TREES AND SHRUBS, INCLUDING DEAD TREES, NOT SHOWN ON THE DRAWINGS BUT LOCATED WITHIN THE WORKS ARE TO BE REMOVED AND DISPOSED OFFSITE.
26. INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRPM) ON ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE LOCATION OF FIREPLUG.
27. THE CONTRACTOR IS TO ENSURE THAT THEIR CONSTRUCTION PROCEDURES AND STANDARDS CONTROL THE VOLUME AND LOCATION FOR COLLECTION OF SEDIMENT RUNOFF ACCORDING TO CURRENT EPA - ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES.
28. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED AND ALL RUBBISH REMOVED. THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
29. EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL ENGINEER.
30. THE LOWER SUB-BASE MATERIAL SHALL WILL BE N.D.C.R. FOR PAVEMENT MAKE UPS AS PER THE STANDARD DRAWINGS OF WYNDHAM CITY COUNCIL.
31. TOTAL LENGTH OF ROADS CONSTRUCTED IS 187m
32. TOTAL LENGTH OF DRAINS CONSTRUCTED IS 378m
33. ALL TSSI TO BE INSTALLED IN ACCORDANCE WITH AS1428.

(GAS) - STANDARD NOTES

1. GAS MAINS, FITTINGS AND MARKER TAPE ARE TO BE SUPPLIED BY THE GAS AUTHORITY.
2. EXCAVATION, SUPPLY AND PLACEMENT OF REQUIRED BACKFILL TO BE UNDERTAKEN BY OTHERS.
3. NOTIFICATION MUST BE GIVEN TO THE GAS AUTHORITY TWO WEEKS PRIOR TO THE COMMENCEMENT OF EXCAVATION WORKS.

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 CONTRACTOR'S 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.

AS CONSTRUCTED PLANS

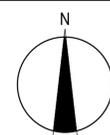
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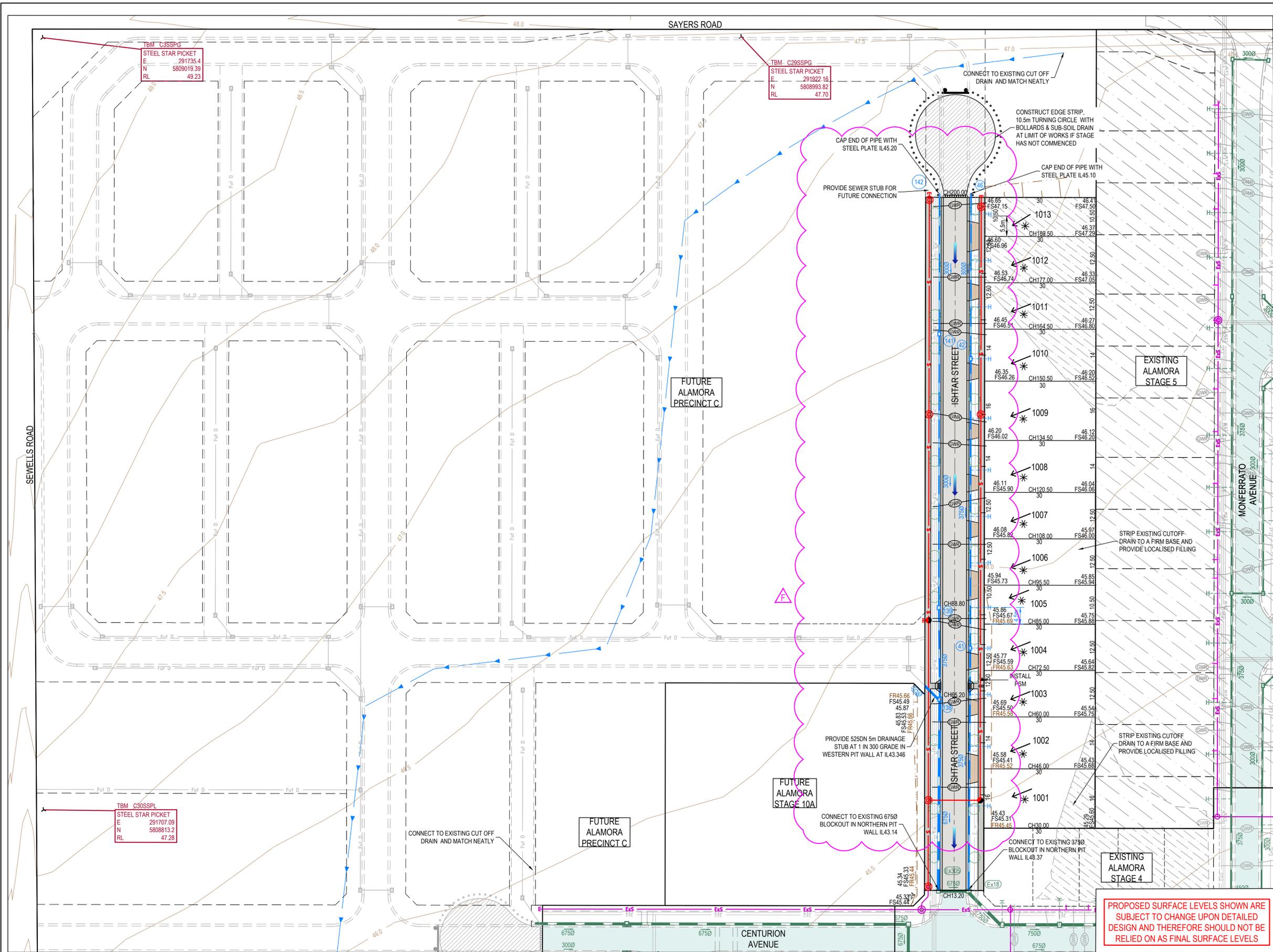
AS CONSTRUCTED

SCALE AS SHOWN AT A1



Alamora Estate - Stage 10
Wyndham City Council
Road and Drainage
Cover Plan & General Notes

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A10-101	SHEET No. 01 of 11	REVISION E
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LEGEND - LAYOUT PLAN
 ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	CUTOFF DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	GAS
	TELSTRA
	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 GAS
	EXISTING TELSTRA
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG. DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
	EXISTING SURFACE LEVEL
	FINISHED BUILDING LINE LEVEL
	FINISHED RIDGE LINE LEVEL
	CHAINAGE
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	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
	3m DIAMETER TREE ZONE

PROPOSED SURFACE LEVELS SHOWN ARE SUBJECT TO CHANGE UPON DETAILED DESIGN AND THEREFORE SHOULD NOT BE RELIED ON AS FINAL SURFACE LEVELS

WARNING
BEWARE OF UNDERGROUND SERVICES
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Scale 1:500
 SCALE AS SHOWN AT A1

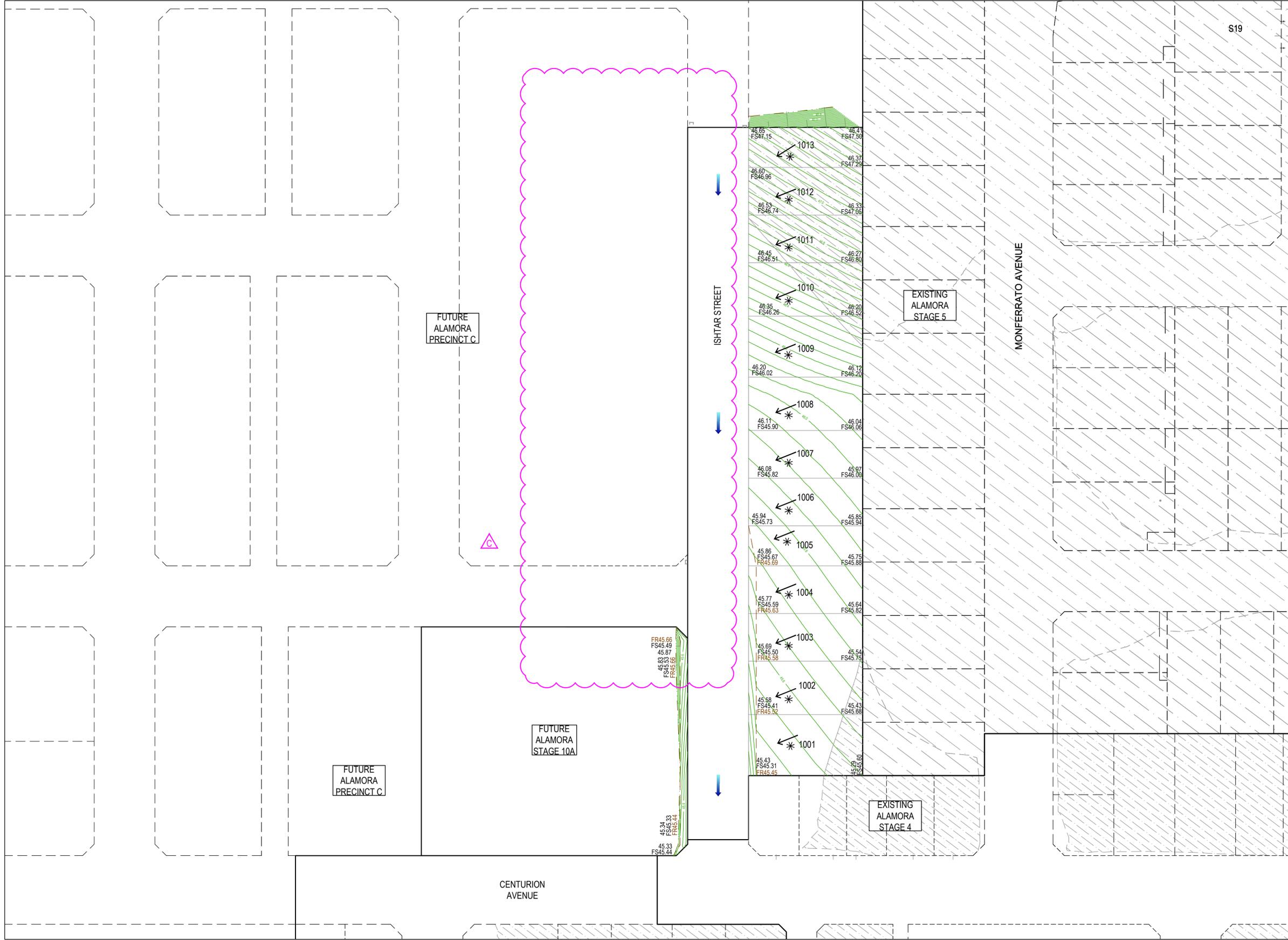
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 Ph 03 9514 1500

ALAMORA
by jarveit

Alamora Estate - Stage 10
 Wyndham City Council
 Road and Drainage
 Layout Plan

MELWAYS REF: 234 D4
 PROJECT/DRAWING No: 2070E-A10-111
 SHEET No: 02 of 11
 REVISION: 0

LEGEND - EARTHWORKS PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED

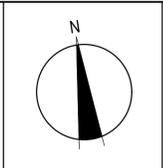
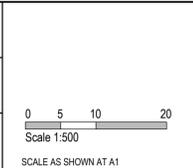


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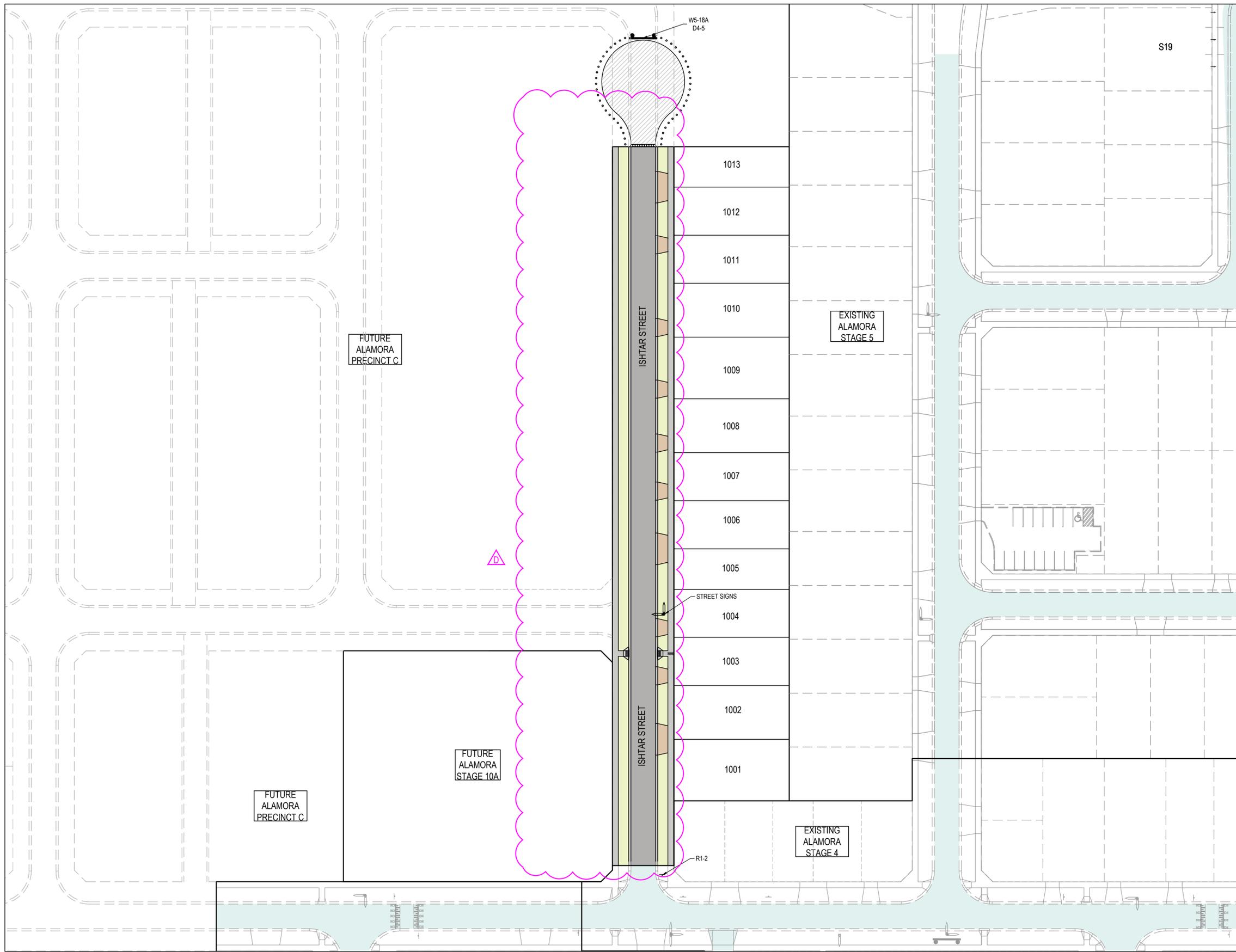


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Alamora Estate - Stage 10
 Wyndham City Council
 Road and Drainage Earthworks Plan

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A10-131	SHEET No. 03 of 11	REVISION C
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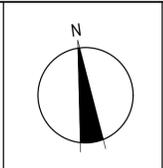
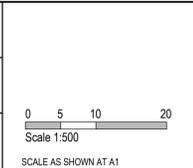
LEGEND - SIGN AND LINEMARKING	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	ROAD ENDS
W5-18A	
	OBSTRUCTION MARKER
D4-5	
	GIVE WAY SIGN
R1-2	

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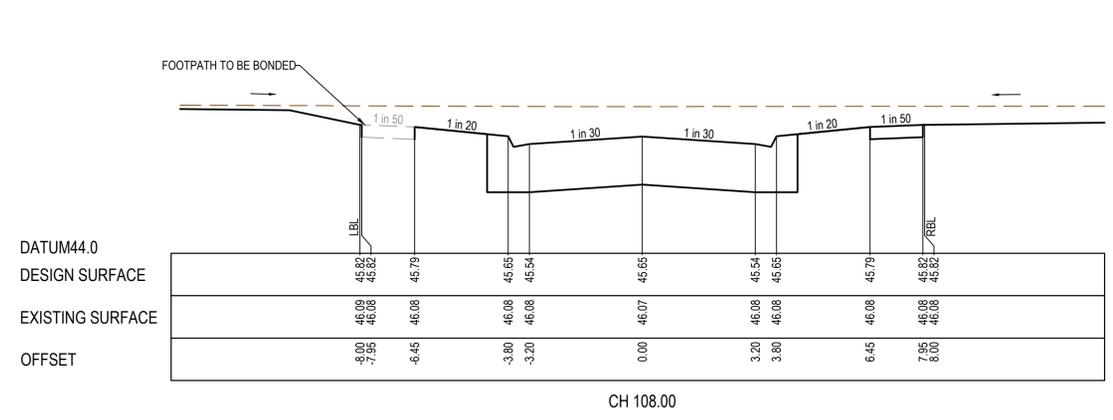
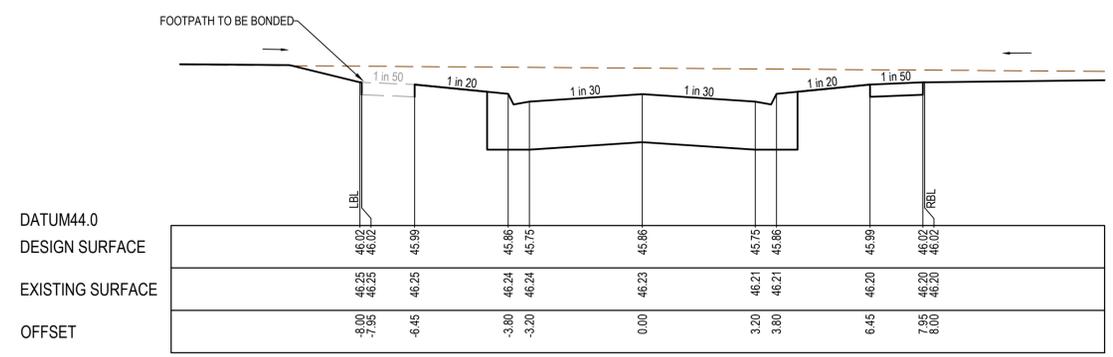
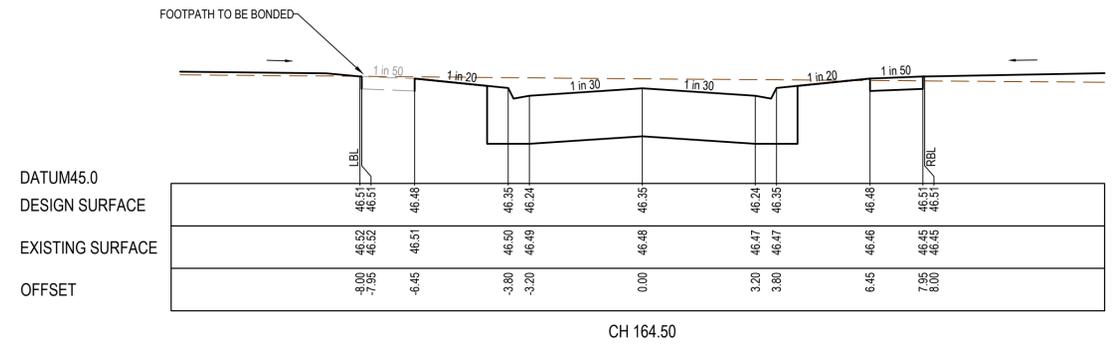
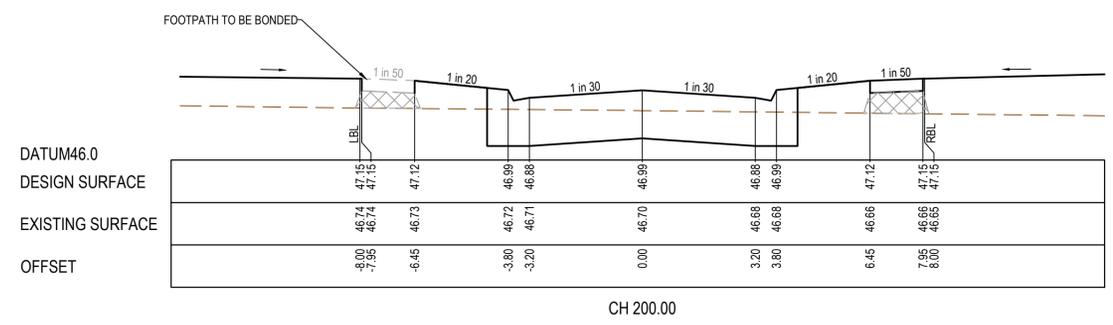
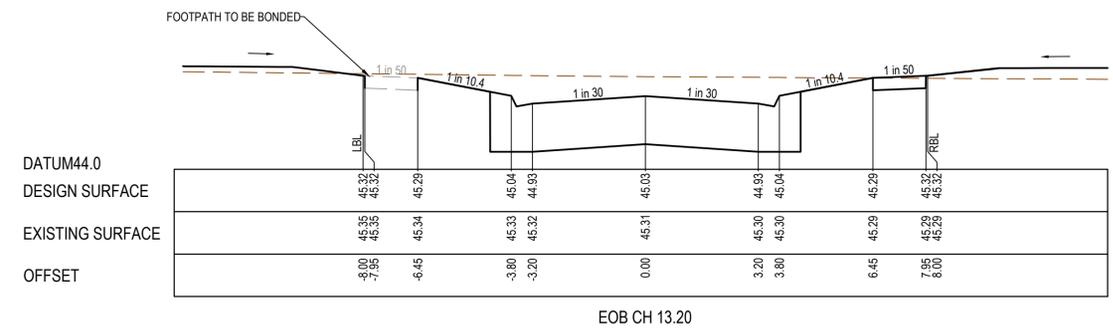
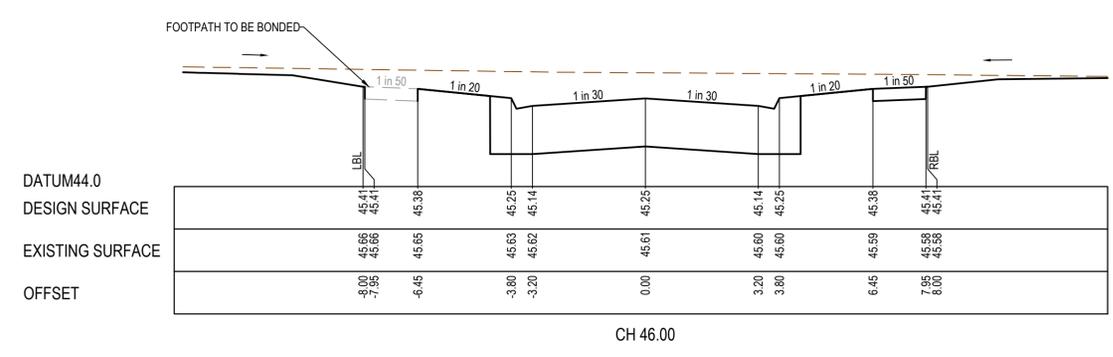
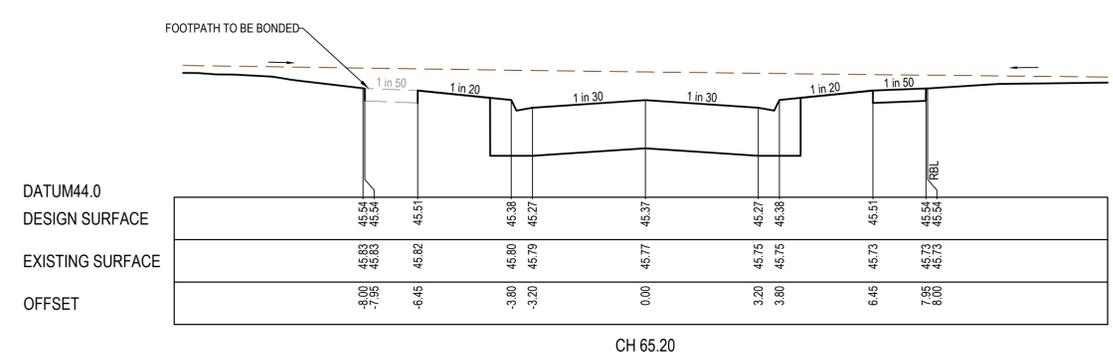
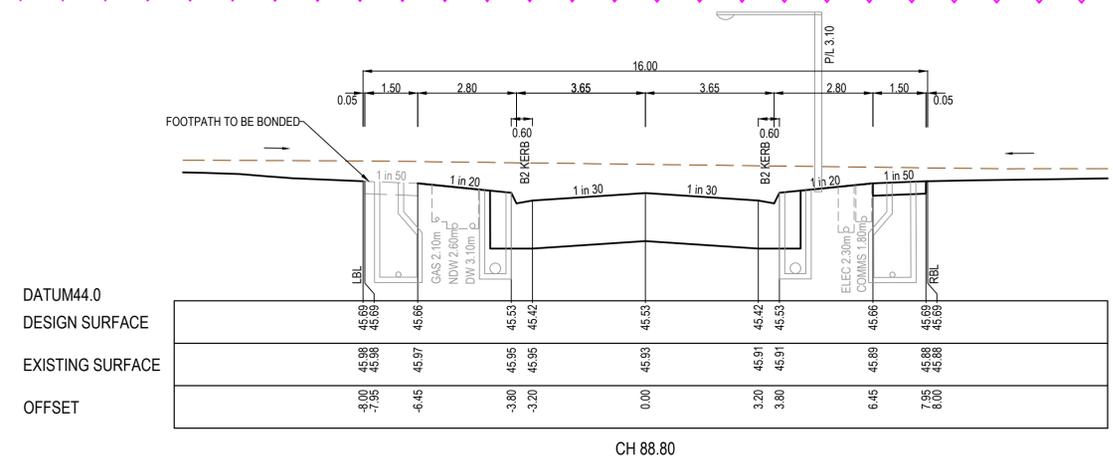


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Alamora Estate - Stage 10 Wyndham City Council Road and Drainage Signage & Linemarking Plan		MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A10-171	SHEET No. 04 of 11	REVISION D
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



AS CONSTRUCTED PLANS

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 Scale H1:100, V1:50
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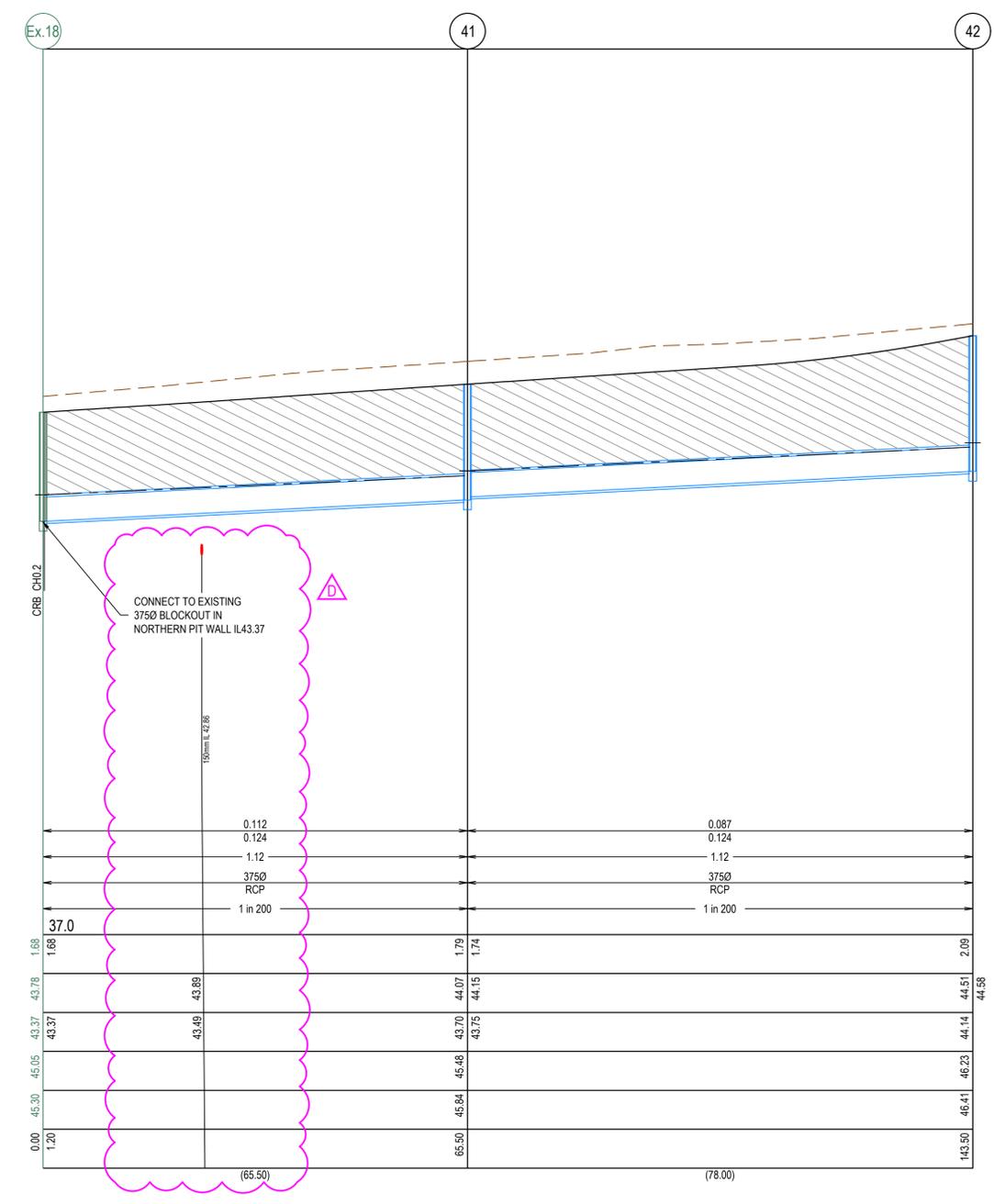
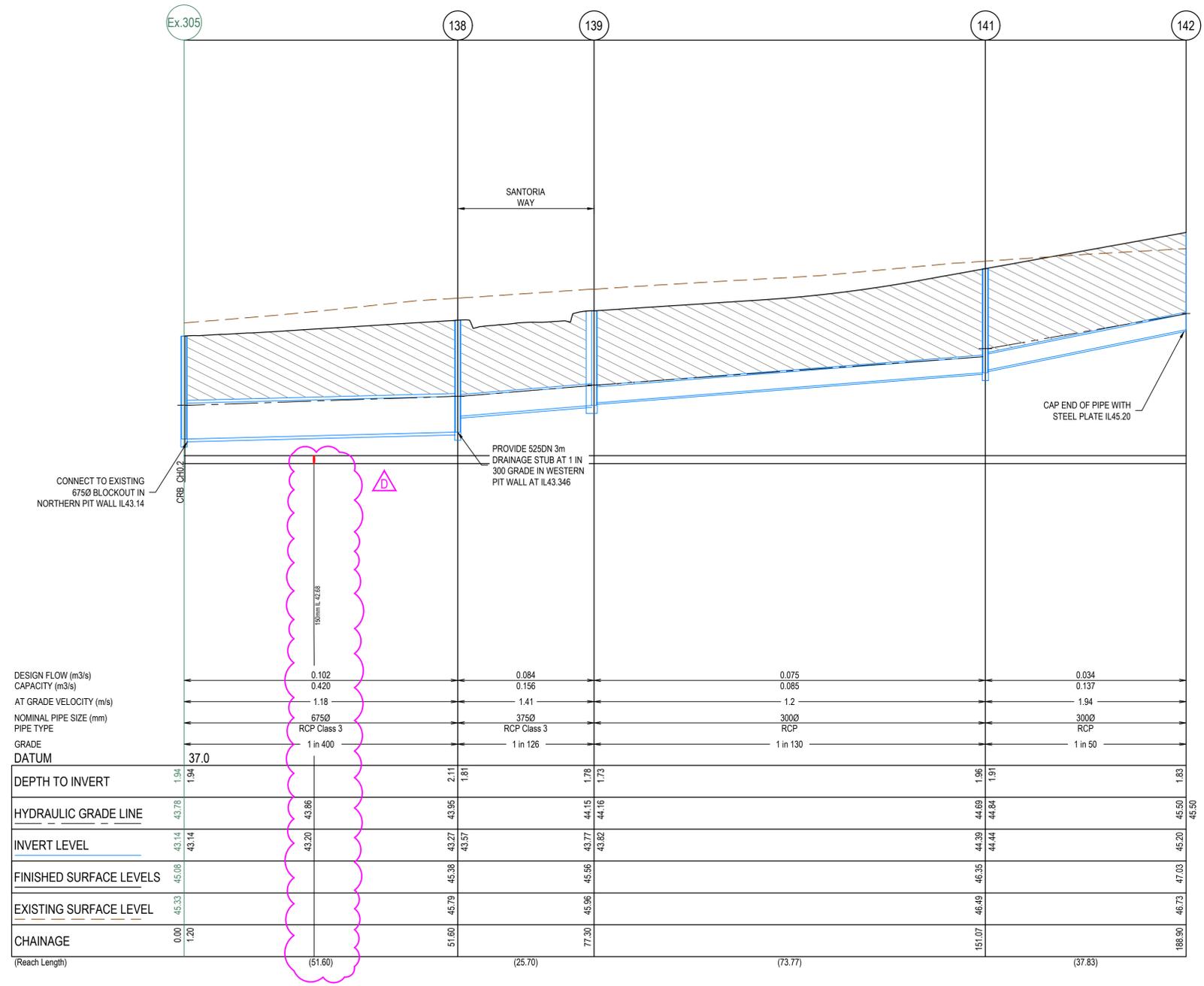
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ALAMORA
Partners

Alamora Estate - Stage 10
 Wyndham City Council
 Road and Drainage
 Cross Sections: Ishtar Street

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A10-251	SHEET No. 06 of 11	REVISION D
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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



AS CONSTRUCTED PLANS

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 OH&S Management AS/NZS 1800
 Environmental Management ISO 14001

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 WYP10107_17.02

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 Scale H1:500, V1:50
 SCALE AS SHOWN AT 1

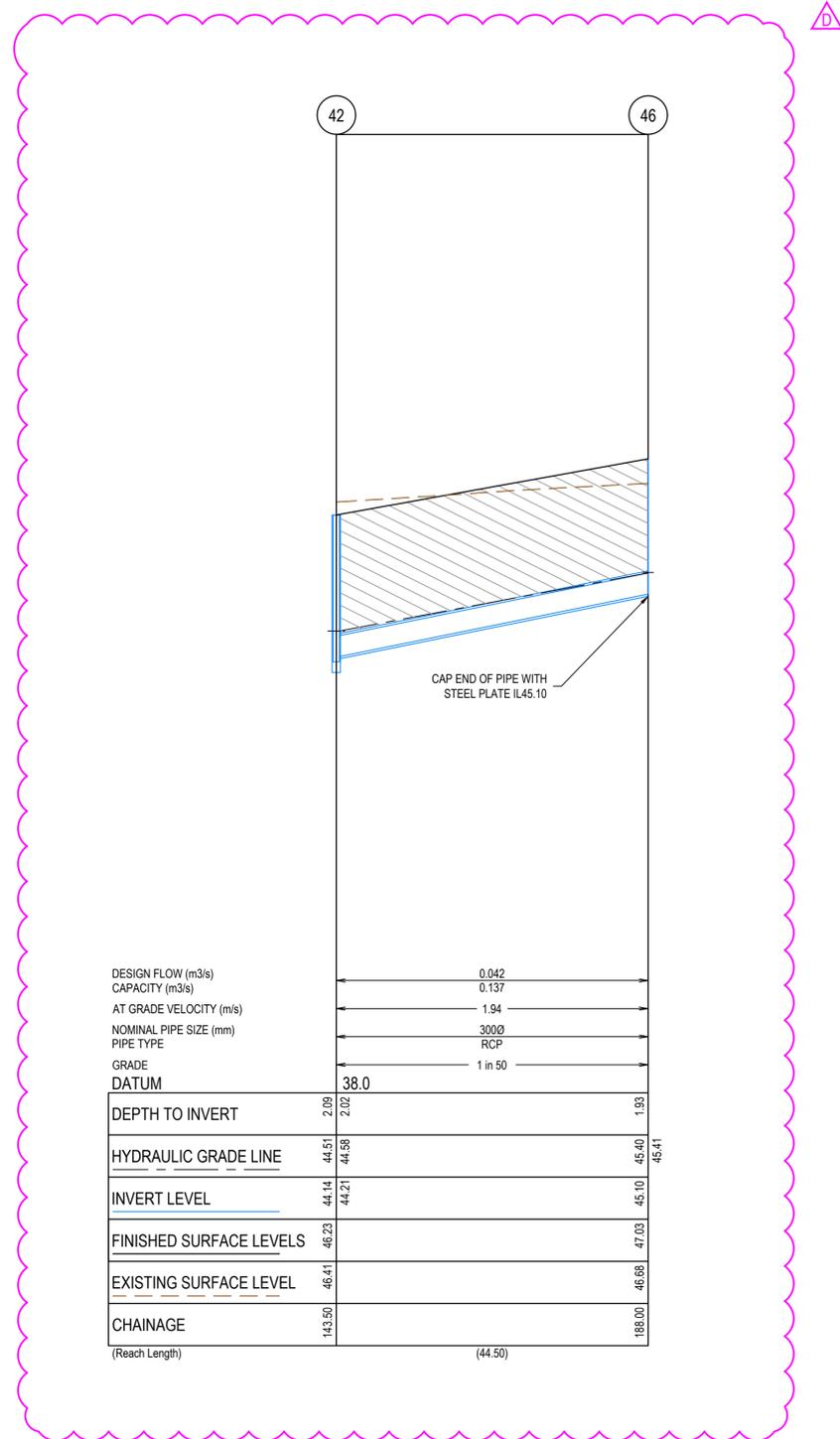
SMEC
 Member of the Surlana Jurong Group
 ABN 47 065 475 149
 Collins Square, Tower 4, Level 20, 727 Collins St
 Melbourne, VIC 3008
 Ph 03 9514 1500

ALAMORA
Yarnit

Alamora Estate - Stage 10
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 1

MELWAYS REF: 234 D4
 PROJECT / DRAWING No: 2070E-A10-301
 SHEET No: 07 of 11
 REVISION: D

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



DESIGN FLOW (m ³ /s)	0.042	
CAPACITY (m ³ /s)	0.137	
AT GRADE VELOCITY (m/s)	1.94	
NOMINAL PIPE SIZE (mm)	3000	
PIPE TYPE	RCP	
GRADE	1 in 50	
DATUM	38.0	
DEPTH TO INVERT	2.09	1.93
HYDRAULIC GRADE LINE	44.51	45.40
INVERT LEVEL	44.14	45.10
FINISHED SURFACE LEVELS	46.23	47.03
EXISTING SURFACE LEVEL	46.41	46.66
CHAINAGE	143.50	188.00
(Reach Length)	(44.50)	

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

PLAN OF SUB. NO.	PS841640V/S7
PERMIT REF. NO.	WYP10107_17.02
Scale	H1:500, V1:50 SCALE AS SHOWN AT A1



Alamora Estate - Stage 10
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D4	2070E-A10-302	08 of 11	D

PIT SCHEDULE											
PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
Ex.305	DOUBLE GRATED ENTRY PIT	900	900	675	43.14	Ex.675	43.09	45.079	1.989	EDCM 602&607	CONNECT TO EXISTING PIT FROM NORTH SIDE WALL
138	JUNCTION PIT	1200	900	375	43.571	675	43.271	45.379	2.108	EDCM 605&607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT PROVIDE 525DN 3m STUB AT 1 IN 300 GRADE IN WESTERN PIT WALL AT IL43.341
				525	43.341						
139	GRATED ENTRY PIT	600	900	300	43.825	375	43.775	45.555	1.78	EDCM 601	
141	GRATED ENTRY PIT	600	900	300	44.442	300	44.392	46.35	1.958	EDCM 601	
142	ENDPIPE					300	45.199	47.031	1.832		CAP END OF PIPE WITH STEEL PLATE FOR FUTURE CONNECTION
Ex.18	DOUBLE GRATED ENTRY PIT	1200	900	375	43.371	Ex.675	42.996	45.051	2.055	EDCM 602&607	CONNECT TO EXISTING PIT FROM NORTH SIDE WALL
				Ex.675	43.072						
41	GRATED ENTRY PIT	600	900	375	43.858	375	43.699	45.484	1.786	EDCM 601	
42	GRATED ENTRY PIT	600	900	300	44.453	375	44.139	46.23	2.091	EDCM 601	
46	ENDPIPE					300	45.103	47.031	1.927		CAP END OF PIPE WITH STEEL PLATE FOR FUTURE CONNECTION

△ D

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

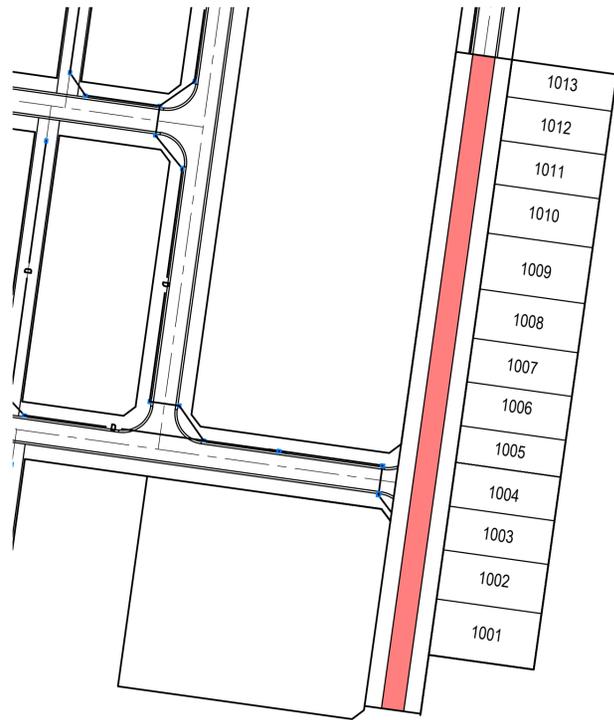
PLAN OF SUB. NO.
PS841640V/S7
PERMIT REF. NO.
WYP10107_17.02

SCALE AS SHOWN AT A1

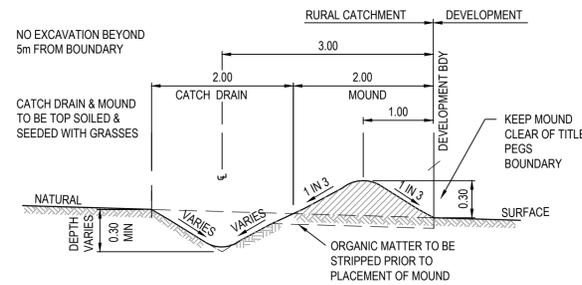
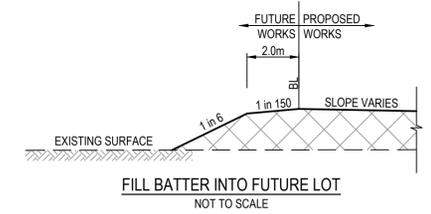
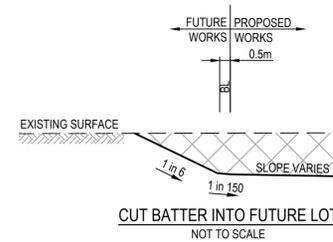


Alamora Estate - Stage 10
Wyndham City Council
Road and Drainage
Pit Schedule

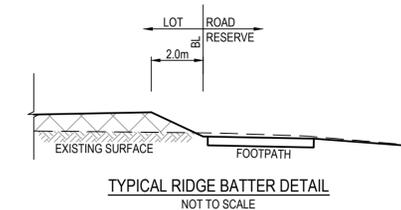
MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A10-351	SHEET No. 09 of 11	REVISION D
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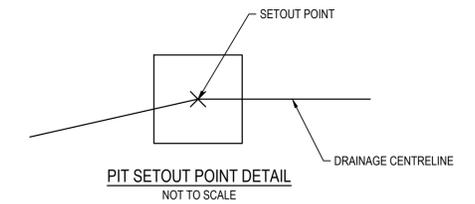
ACCESS PLACE - ISHTAR STREET PAVEMENT COMPOSITION		
530mm DEEP PAVEMENT (INCLUDING 200mm DEEP CAPPING) AND 150mm SUBGRADE		
PAVEMENT LAYER	DEPTH (mm)	MATERIAL
ASPHALT	WEARING COURSE	SIZE 10 TYPE L ASPHALT CLASS 320 BINDER
	INTERMEDIATE COURSE	SIZE 10 TYPE N ASPHALT CLASS 320 BINDER
	SAMI SEAL	SIZE 10 SAMI SEAL S18RF
	BITUMINOUS PRIME	BITUMINOUS PRIME
BASE COURSE	130	SIZE 20 CLASS 2 CRUSHED ROCK, COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289, 5.2.1
SUBBASE COURSE	140	SIZE 20 CLASS 3 CRUSHED ROCK, COMPACTED TO A MINIMUM DENSITY RATIO OF 96% (MODIFIED) AS1289, 5.2.1
CAPPING	200	RIPPED ROCK (SELECT FILL) OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY $k < 1 \times 10^{-9}$ m/s AND SWELL < 1.5% MATERIAL, COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1
SUBGRADE/CONSTRUCTION LAYER	150	RIPPED ROCK OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY $k < 1 \times 10^{-9}$ m/s AND SWELL < 1.5% MATERIAL, COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1



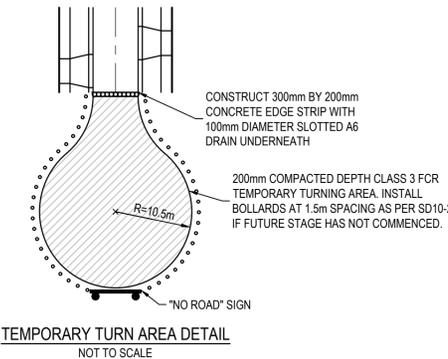
TYPICAL SECTION THROUGH CATCH DRAIN
NOT TO SCALE



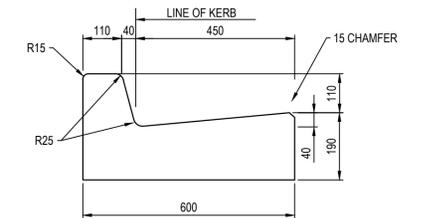
TYPICAL RIDGE BATTER DETAIL
NOT TO SCALE



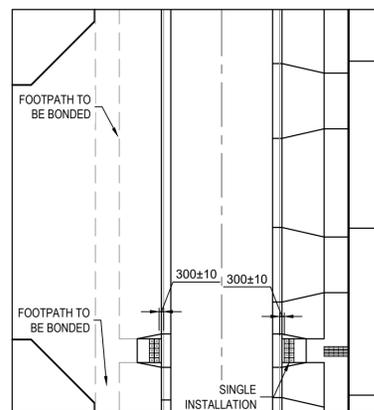
PIT SETOUT POINT DETAIL
NOT TO SCALE



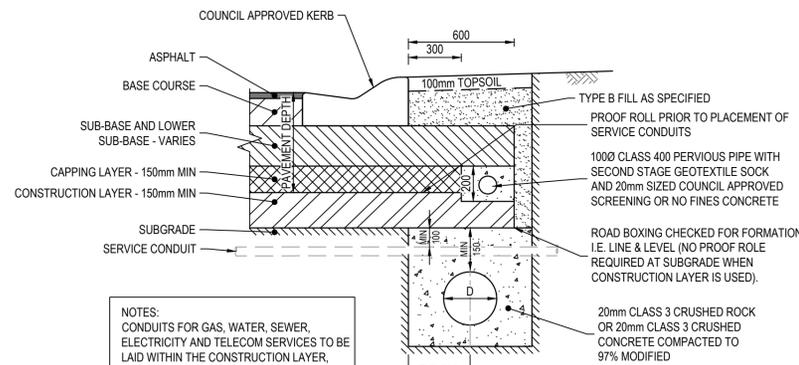
TEMPORARY TURN AREA DETAIL
NOT TO SCALE



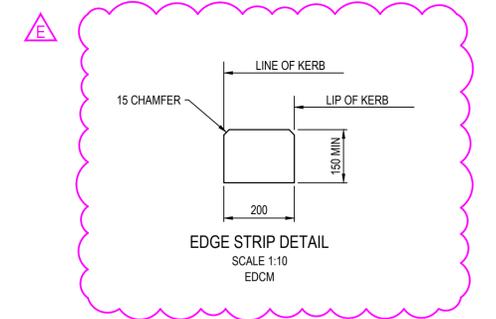
600 B2 KERB DETAIL
SCALE 1:10
EDCM



TYPICAL TGS1 LAYOUT
N.T.S
REFER TO NOTE 34



SUBSOIL DRAIN
(EXPANSIVE SOILS)
REFER EDCM STD DWG 202A
NOT TO SCALE



EDGE STRIP DETAIL
SCALE 1:10
EDCM

WARNING
BWARE 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

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.

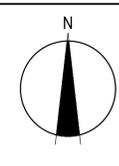
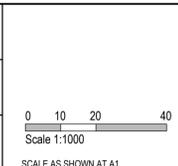
AS CONSTRUCTED PLANS

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Quality Management ISO 9001
OH&S Management AS/NZS 4801
Environmental Management ISO 14001

PLAN OF SUB. NO.
PS841640V/S7
PERMIT REF. NO.
WYP10107_17.02

AS CONSTRUCTED



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Melbourne, VIC 3008
Ph 03 9514 1500

ALAMORA
Parceit

Alamora Estate - Stage 10
Wyndham City Council
Road and Drainage
Pavement & General Details

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A10-411	SHEET No. 10 of 11	REVISION E
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Project Name: Alamora Stage 10	Design Package: 2070E-A10
	Date: 11/11/2021

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	Score remaining residual risk		
		Residual Risk Likelihood (0-5)	Residual Risk Consequence (0-5)	Residual Risk Rating								
		Road Furniture / Roadside features										
Construction	RD	Roads	Construction close to live traffic	New works will be constructed adjacent to live traffic when abutting existing stages.	Contractor	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15
Construction	RD	Roads	Culverts	Potential risk from culverts under construction and height / fall hazards	Contractor	Falling from a height	Temporary barriers to be provided	Temporary barrier provided in contract	N	2	5	10
Construction	US	Utilities or Services	Utilities become a hazard within clear zones	Vehicle conflict with utility / pit	Contractor	Personal injury, vehicle damage	Sequence works and protect with temp barrier or traffic control (TCP)	TCP provided within contract	N	1	5	5
Operational	RD	Roads	Sight Lines	Inadequate drivers response time.	Road Authority	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	4	4
Operational	LS	Lines and Signs	Signs and street lights	Potential for drivers / riders to strike signs and street lights	Road Authority	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	4	4
Operational	RF	Road Furniture	Headwalls	Potential vehicle conflict within clear zone	Road Authority	Increased potential for accidents	Establish adequate clear zone provision	Adequate barrier provided as per appropriate standard where within clear zone. Culvert headwall selection in accordance with authority standard	N	2	4	8
Operational	RD	Roads	Culverts	Potential fall hazard during maintenance, by vehicles and pedestrians	Relevant Authority	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	5	10
		Retaining Walls										
Construction	RW	Retaining Walls	Retaining Wall Alignment	Falling from height during construction or commissioning of walls and adjacent structures eg. sewer manholes	Contractor	Falling from a height	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	1	1
Operational	RW	Retaining Walls	Retaining Wall Alignment	Lack of safe access/setback from road	Road/ Local Authority	Increased potential for accidents	Establish adequate and accessible clear zone provision. Provide guardrail where required	Wall located in suitable position during design process and approved by authority	N	1	1	1
Operational	RW	Retaining Walls	Retaining Wall Height	Potential for falling from height	Road/ Local Authority	Personal injury	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	5	5
Operational	RW	Retaining Walls	Retaining Wall Design	Potential for wall failure	Road/ Local Authority	Increased potential for accidents	Structural design in accordance with standards, geotechnical conditions, end use and good practise.	Refer to structural drawings and calculations	N	1	5	5
		Drainage										
Operational	DR	Drainage	Grated Pits	Trip/fall hazard with large spaced grate	Relevant Authority	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	2	6
Operational	DR	Drainage	Non Standard Large Pits	Potential for pit failure	Relevant Authority	Increased risk to maintenance crews/ vehicles	Structural design in accordance with relevant design principles.	Refer to structural drawings and calculations	N	1	4	4
Operational	DR	Drainage	Culvert Endwalls/Headwalls	Potential for falling from height	Relevant Authority	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	4	4
Operational	DR	Drainage	Culvert Endwall/Headwall Outlets	Children playing in large pipes / watercourses and access for maintenance	Relevant Authority	Increased potential for accidents	Grate provided to authority standards	Design in accordance with authority and manufacturers standards	N	2	5	10
Maintenance	DR	Drainage	Access to Pits	Lack of safe access for maintenance	Relevant Authority	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	5	10
Maintenance	DR	Drainage	Deep Pits	Lack of safe entry for maintenance	Relevant Authority	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	5	5
Maintenance	DR	Drainage	Access to drains / culverts	Lack of safe access for maintenance	Relevant Authority	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	3	6
		Sewer										
Construction	SE	Sewer	Sewer Manhole located adjacent to Retaining Wall Alignment	Falling from height during construction or commissioning of adjacent sewer manholes	Contractor	Falling from a height	Provide temporary fencing until such time that permanent fencing is constructed	Provide fencing (at heights) during design process	N	1	1	1
Maintenance	SE	Sewer	Deep Manholes	Lack of safe entry for maintenance	Relevant Authority	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	5	5
Maintenance	SE	Sewer	Access to Manholes	Lack of safe access for maintenance	Relevant Authority	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	5	5
Maintenance	SE	Sewer	Pump Station Access	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance	Design pump station in location for easy access	N	2	4	8
		Electricity										
Operational	ES	Electrical Services	Electrical Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	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	3	6
		Telstra										
Operational	TE	Telstra	Telstra Design	Location of assets within clear zones e.g.. pits	Relevant Authority	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	3	6
		Water										
Operational	WA	Water	Water Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	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	3	6
		Gas										
Operational	GA	Gas	Gas Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	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	1	1

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AS CONSTRUCTED

PLAN OF SUB. NO.
PS841640V/S7
PERMIT REF. NO.
WYP10107_17.02

SCALE AS SHOWN AT A1



Alamora Estate - Stage 10
Wyndham City Council
Road and Drainage
Safety In Design

MELWAYS REF
234 D4

PROJECT / DRAWING No.
2070E-A10-500

SHEET No.
11 of 11

REVISION
B