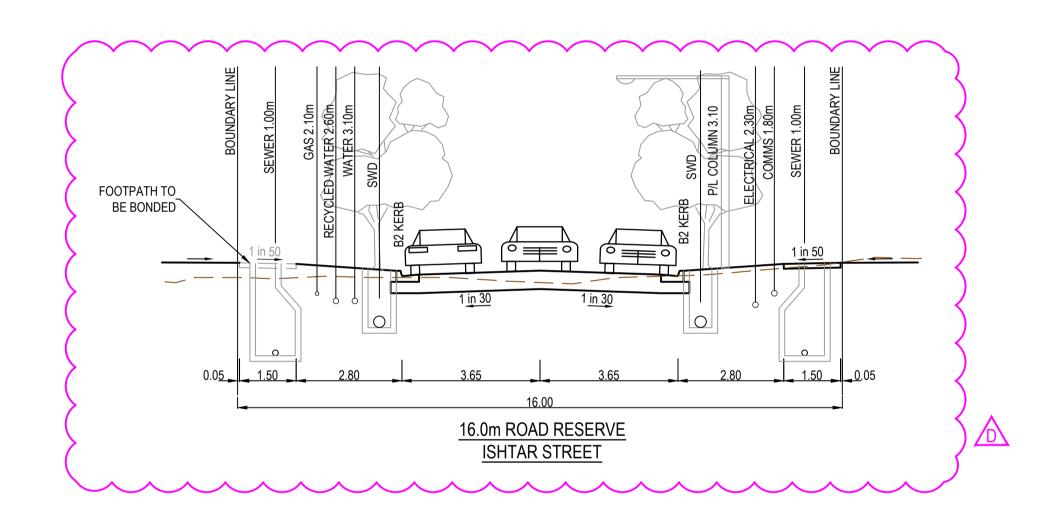


Locality Plan

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					
	ROAD NAIVIE	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		ROAD WIDTH (m)	KERB	TYPE	VERGE WIDTH (m)					
ROAD NAIVIE	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							

# Alamora Estate Stage 10, Sayers Road, Tarneit

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. ocate all underground services before commencement of works **DIAL 1100 BEFORE YOU DIG** 

## **WARNING**

SAFETY MEASURES REQUIRED Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. onsider 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)

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDCM ADDENDUM STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING
- 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.
- THE CONTRACTOR SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY
- RULES, AND THE MINES (TRENCHES) REGULATIONS 1982. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING
- OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE
- WHEN TRENCHING OPERATIONS ARE IN PROGRESS. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO
- COMMENCEMENT OF CONSTRUCTION. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY
- EXCAVATION BY CONTACTING ALL RELEVENT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS 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.
- 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 EDCM 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.
- SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL AS PER STANDARD DRAWINGS EDCM 202 (EXPANSIVE SUBGRADE).
- 10. ALL LINEMARKING, SIGNING AND TRAFFIC CONTROL DEVICES TO BE IN ACCORDANCE WITH VICROADS REQUIREMENTS WITH LATERAL WORKS AND ARROWSBEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGAOUR OR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VICROADS SPECIFICATION SEE SECTION 710&722).
- 11. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM. 12. THE CONTRACTOR WHEN ENGAGED IN BLASTING OPERATION, SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE
- CONSENT OF THE ENGINEER. 13. 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. 14. 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.
- 15. FILL & CUT BATTERS ARE NOT TO EXCEED 1 in 6 SLOPE, UNLESS SHOWN OTHERWISE.
- 16. 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
- 17. ALL DRAINAGE PIPES ARE CLASS 2 RCP PIPES, RUBBER RING JOINTED UNLESS OTHERWISE SPECIFIED.
- 18. DRAINAGE PITS SHALL BE CAST MONOLITHICALLY. CEMENT RENDER SHALL ONLY BE USED TO REPAIR DEFECTS.
- 19. BACKFILLING OF TRENCHES WHERE DRAINAGE AND SEWERAGE ARE IN CLOSE PROXIMITY ARE TO BE BACKFILLED AS PER WYNDHAM CITY COUNCIL STANDARD DRAWING SD6-10.
- 20. ALL SERVICING TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 2 F.C.R.
- 21. ALL HOUSE DRAIN CONNECTIONS TO BE INSTALLED AT 6m FROM THE LOW SIDE BOUNDARY U.NO.
- 22. INVERT OF PROPERTY INLETS TO BE 500mm MINIMUM BELOW FINISHED SURFACE UNLESS NOTED OTHERWISE 23. VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS EDCM 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.
- 24. ADDITIONAL AND OVER-EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
- 25. FOOTPATH CROSSFALL TO BE 1:50
- 26. ALL FOOTPATHS AND SHARED PEDESTRIAN/BICYCLE PATHS ARE TO BE CONSTRUCTED AS PER CITY OF WYNDHAM SPECIFICATIONS AND MPA STANDARD DRAWINGS EDCM 401 TO 403.
- 27. 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.
- 28. INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRRPM) ON ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE LOCATION OF FIREPLUG.
- 29. 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.
- 30. 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
- 31. EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL ENGINEER. 32. 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.
- 33. TOTAL LENGTH OF ROADS CONSTRUCTED IS 227m
- TOTAL LENGTH OF DRAINS CONSTRUCTED IS 410m 34. ALL TGSI TO BE INSTALLED IN ACCORDANCE WITH AS1428
- (GAS) STANDARD NOTES
- GAS MAINS, FITTINGS AND MARKER TAPE ARE TO BE SUPPLIED BY THE GAS AUTHORITY.
- EXCAVATION, SUPPLY AND PLACEMENT OF REQUIRED BACKFILL TO BE UNDERTAKEN BY OTHERS. NOTIFICATION MUST BE GIVEN TO THE GAS AUTHORITY TWO WEEKS PRIOR TO THE COMMENCEMENT OF

## 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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVE
Α	25.01.22	ISSUED FOR INFORMATION ONLY	T.HO	H.EHSANI	C.SEXTON	S.ANTONOPC
В	21.02.22	ISSUED TO COUNCIL FOR APPROVAL	T.HO	H.EHSANI	C.SEXTON	S.ANTONOPC
С	17.05.22	DRAINAGE ALIGNMENT AMENDED PITS 138-139	A.MONTGOMERY	A.MONTGOMERY	M.BOYS	S.ANTONOPC
D	25.05.22	FOOTPATH WEST OF ISHTAR STREET AMENDED	A.MONTGOMERY	A.MONTGOMERY	C.SEXTON	S.ANTONOPC
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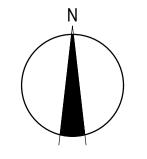








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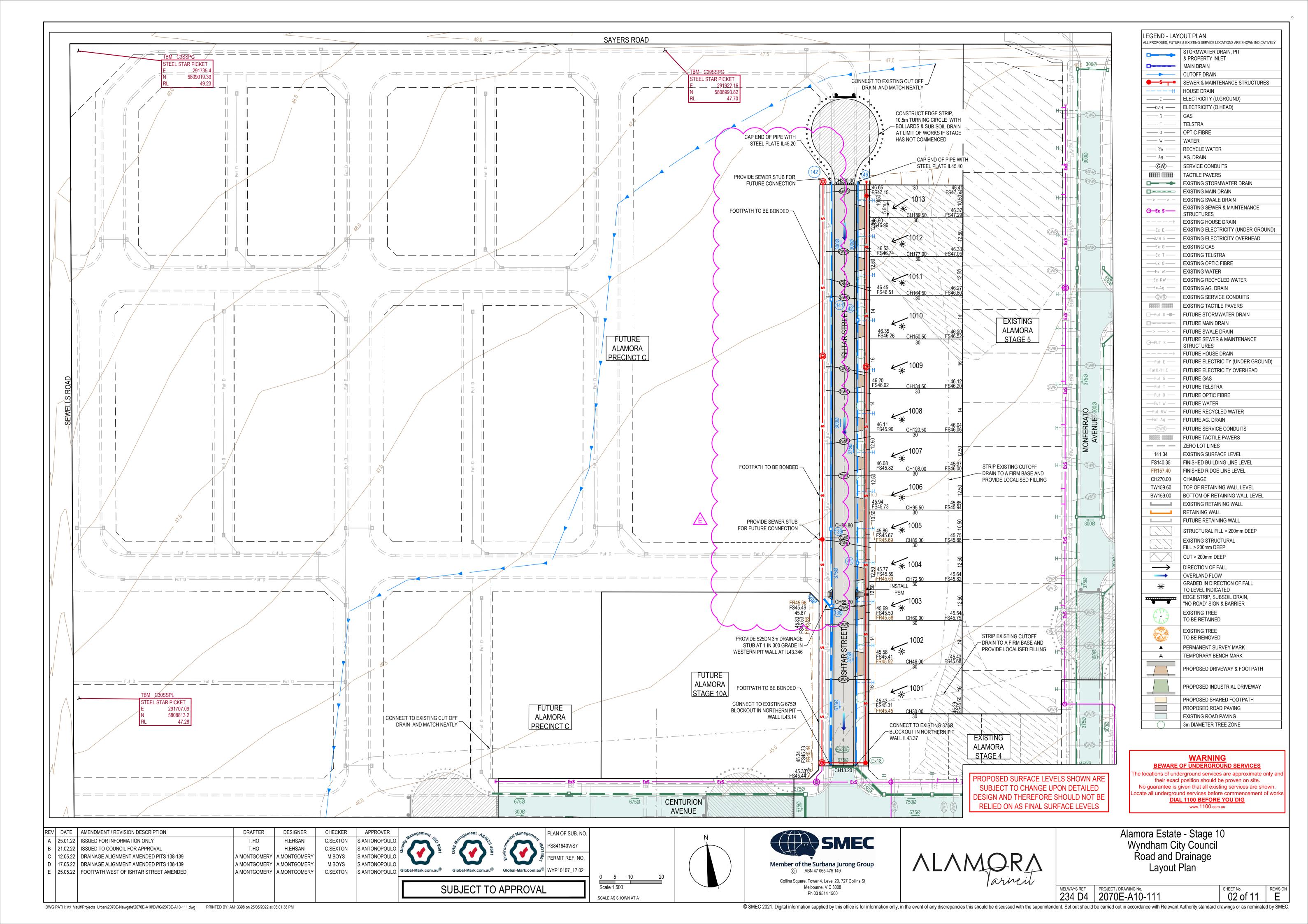


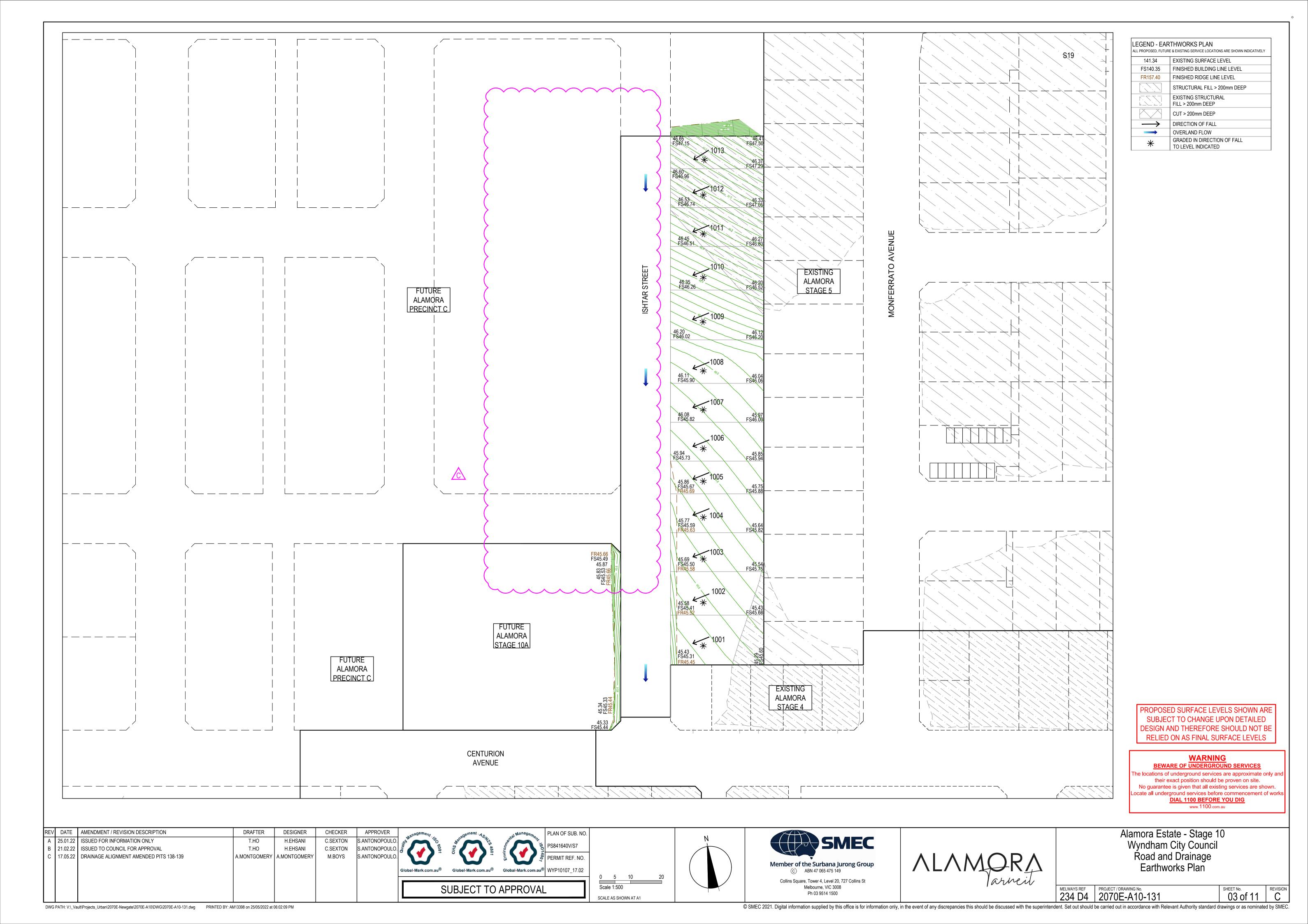
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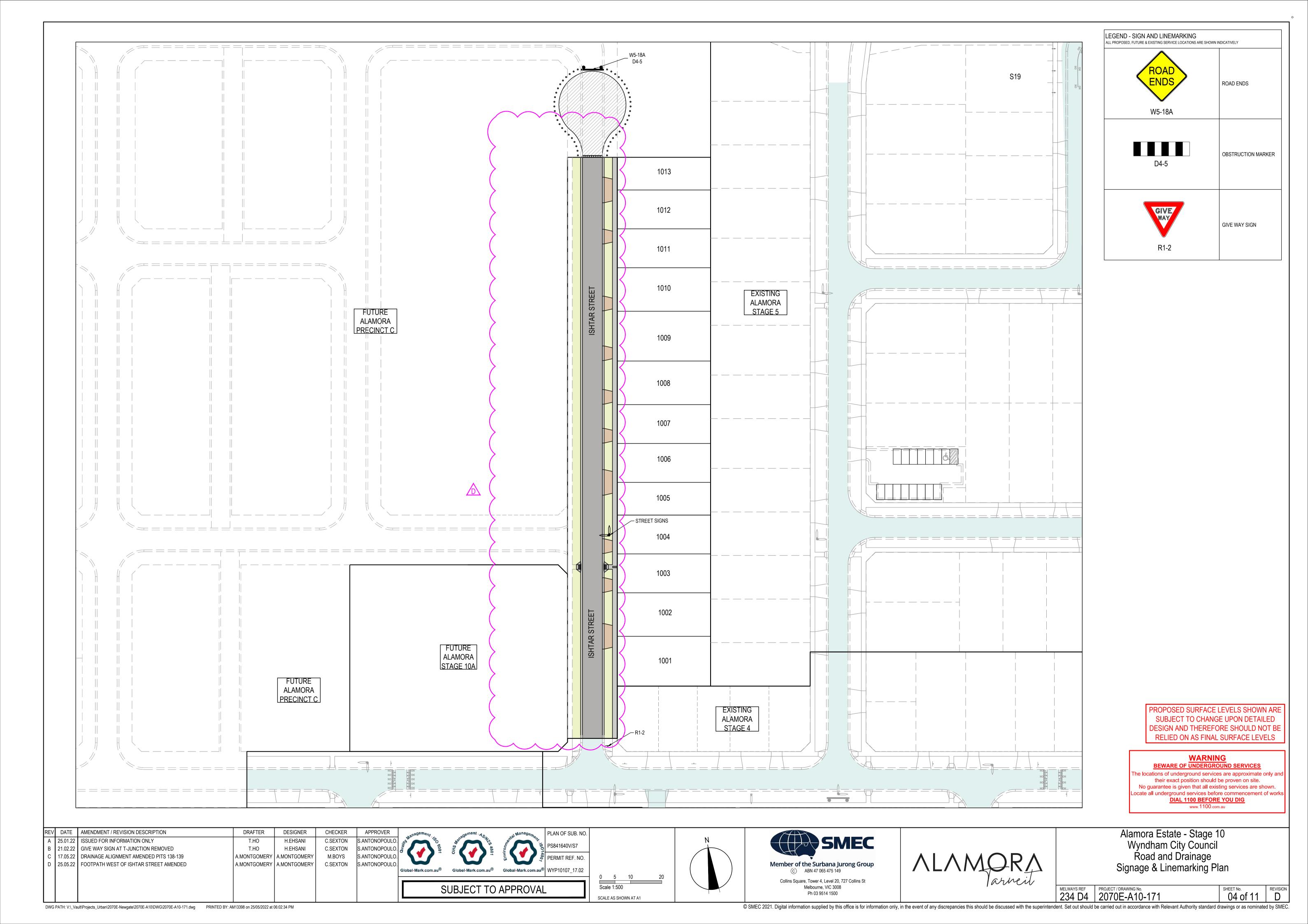


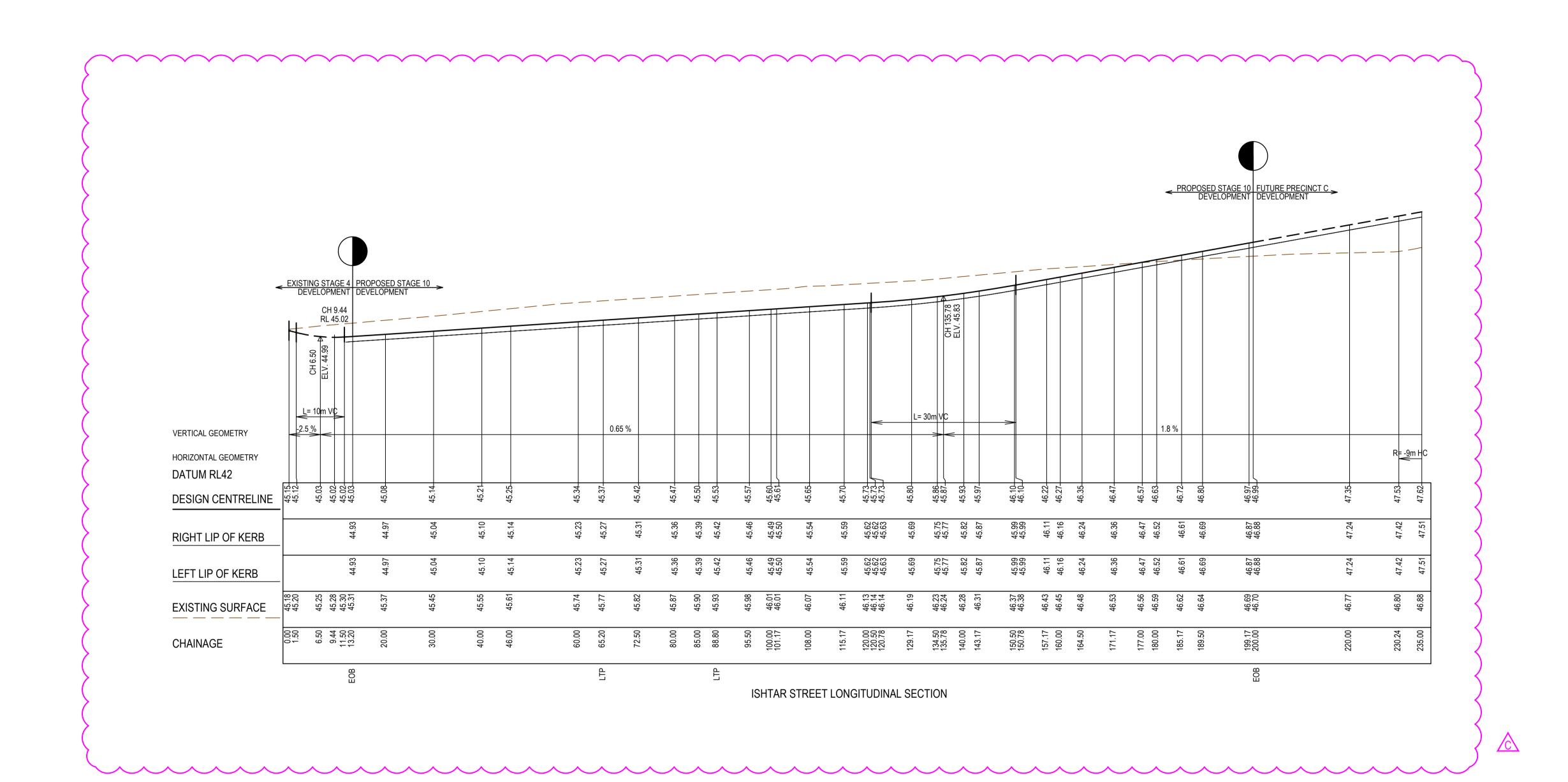
Alamora Estate - Stage 10 Wyndham City Council Road and Drainage Cover Plan & General Notes

PROJECT / DRAWING No. 2070E-A10-101









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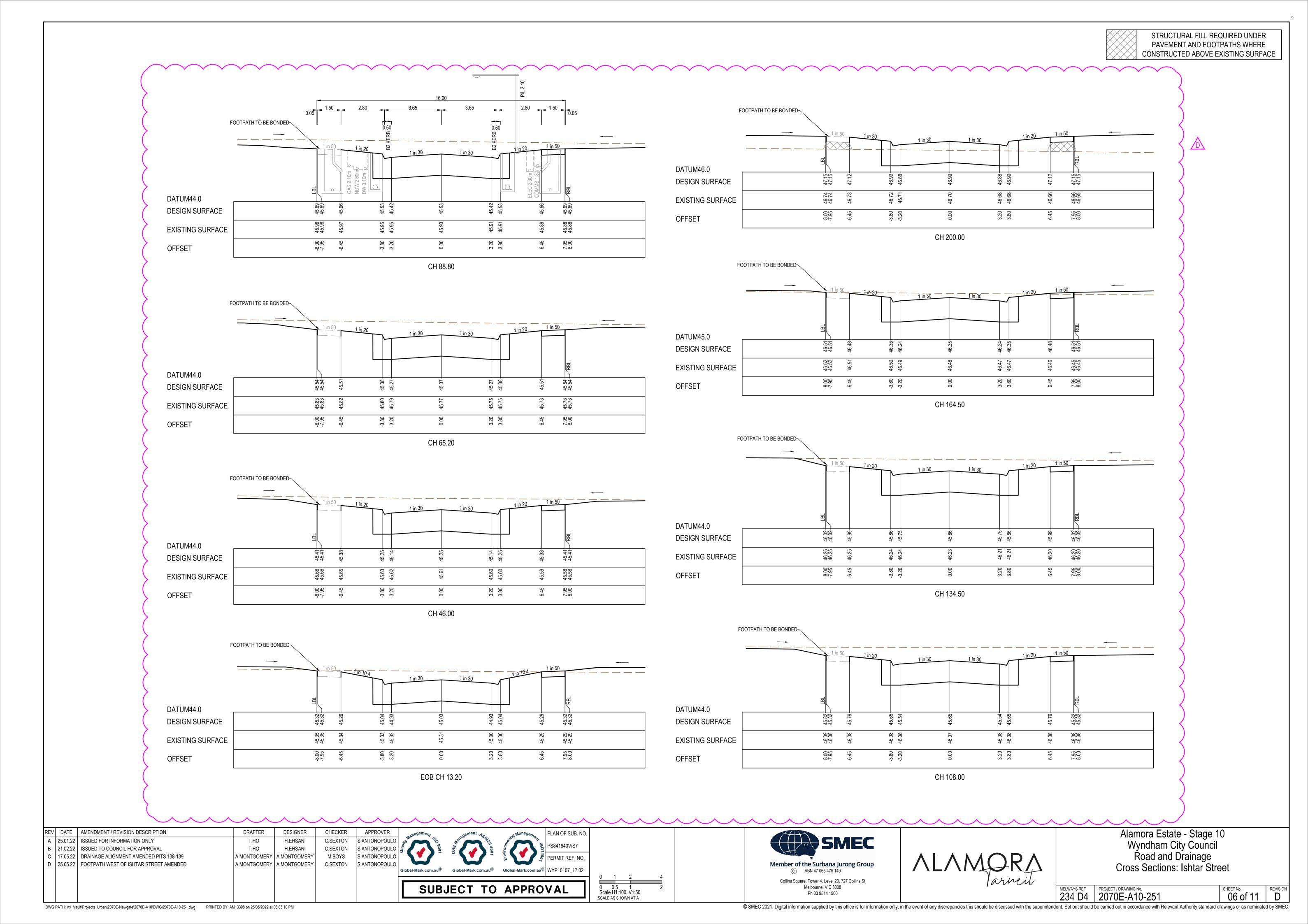




Alamora Estate - Stage 10
Wyndham City Council
Road and Drainage
Road Longitudinal Sections

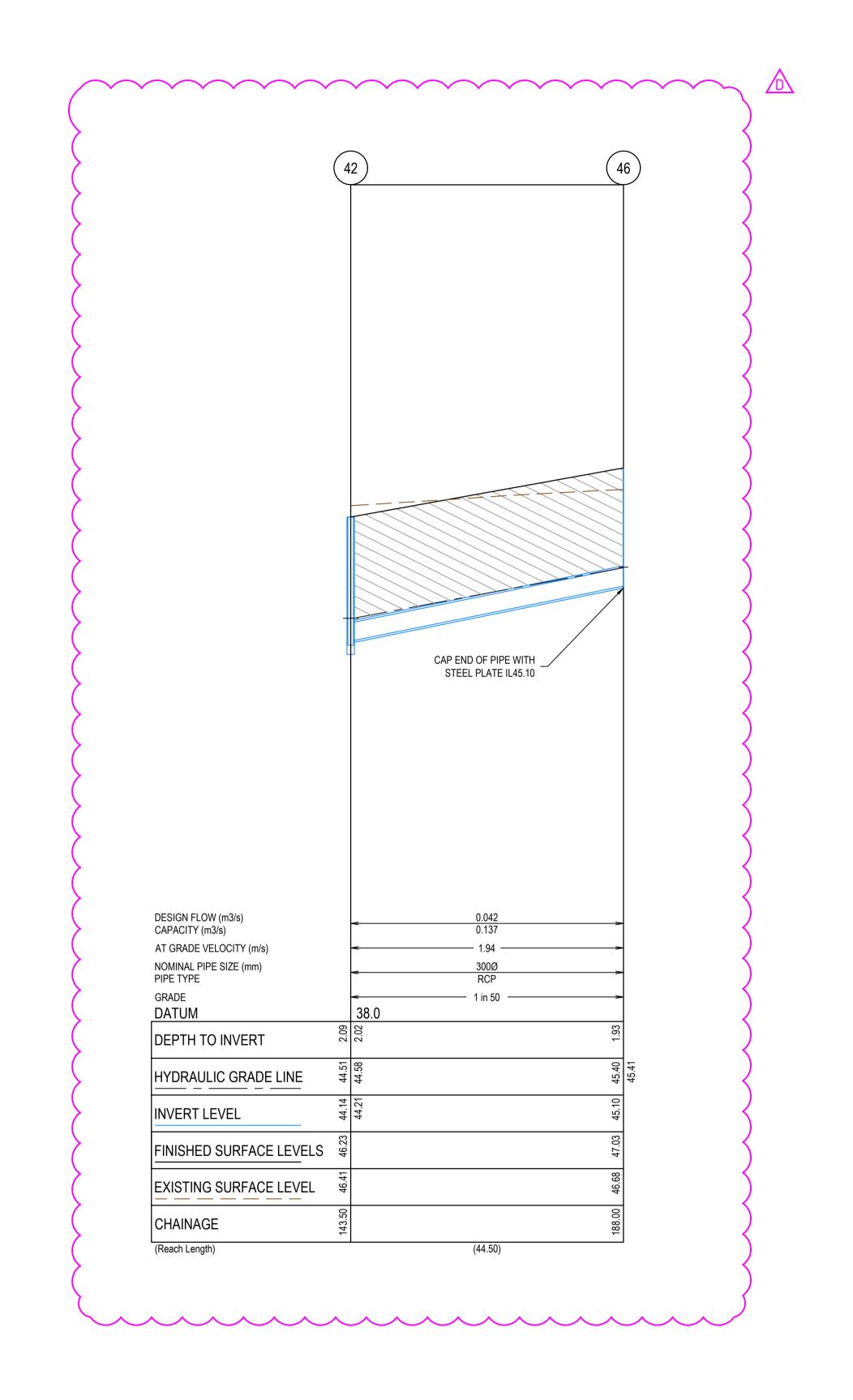
MELWAYS REF 234 D4 PROJECT / DRAWING No. 2070E-A10-201

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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 SANTORIA CAP END OF PIPE WITH STEEL PLATE IL45.20 PROVIDE 525DN 3m DRAINAGE STUB AT 1 IN 300 GRADE IN WESTERN CONNECT TO EXISTING PIT WALL AT IL43.346 675Ø BLOCKOUT IN CONNECT TO EXISTING 375Ø BLOCKOUT IN NORTHERN PIT WALL IL43.37 NORTHERN PIT WALL IL43.14 DESIGN FLOW (m3/s) CAPACITY (m3/s) AT GRADE VELOCITY (m/s) 375Ø RCP Class 3 675Ø RCP Class 3 NOMINAL PIPE SIZE (mm) PIPE TYPE **GRADE** — 1 in 400 -1 in 200 - 1 in 50 37.0 DATUM 1.94 DEPTH TO INVERT HYDRAULIC GRADE LINE 43.14 43.14 43.14 INVERT LEVEL FINISHED SURFACE LEVELS EXISTING SURFACE LEVEL CHAINAGE (37.83) (Reach Length) Alamora Estate - Stage 10
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 1 REV DATE AMENDMENT / REVISION DESCRIPTION DRAFTER DESIGNER CHECKER PLAN OF SUB. NO. SMEC A 25.01.22 ISSUED FOR INFORMATION ONLY .ANTONOPOUL C.SEXTON H.EHSANI B 21.02.22 ISSUED TO COUNCIL FOR APPROVAL T.HO H.EHSANI C.SEXTON ANTONOPOULO C | 12.05.22 | DRAINAGE ALIGNMENT AMENDED PITS 138-139 A.MONTGOMERY A.MONTGOMERY M.BOYS S.ANTONOPOULC Member of the Surbana Jurong Group © ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St SUBJECT TO APPROVAL Melbourne, VIC 3008 Ph 03 9514 1500 MELWAYS REF PROJECT / DRAWING No. 234 D4 2070E-A10-301 SHEET No. REVISION C © SMEC 2021. Digital information supplied by this office is for information only, in the event of any discrepancies this should be discussed with the superintendent. Set out should be carried out in accordance with Relevant Authority standard drawings or as nominated by SMEC. DWG PATH: V:\\_Vault\Projects\_Urban\2070E-Newgate\2070E-A10\DWG\2070E-A10-301.dwg PRINTED BY: AM13398 on 25/05/2022 at 06:03:28 PM

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

MELWAYS REF PROJECT / DRAWING No. 2070E-A10-302

						PIT SCHEDULE					
PIT NUMBER	TYPE	INTE	RNAL	INLI	ET	OUTLET		F.S.L.	DEPTH	STANDARD	REMARKS
PII NUMBER	ITPE	WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)	F.S.L.	DEPTH	DRAWING	REMARKS
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
				525	43.341						PROVIDE 525DN 3m STUB AT 1 IN 300 GRADE IN WESTERN PIT WALL AT IL43.341
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



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PLAN OF SUB. NO.

SUBJECT TO APPROVAL



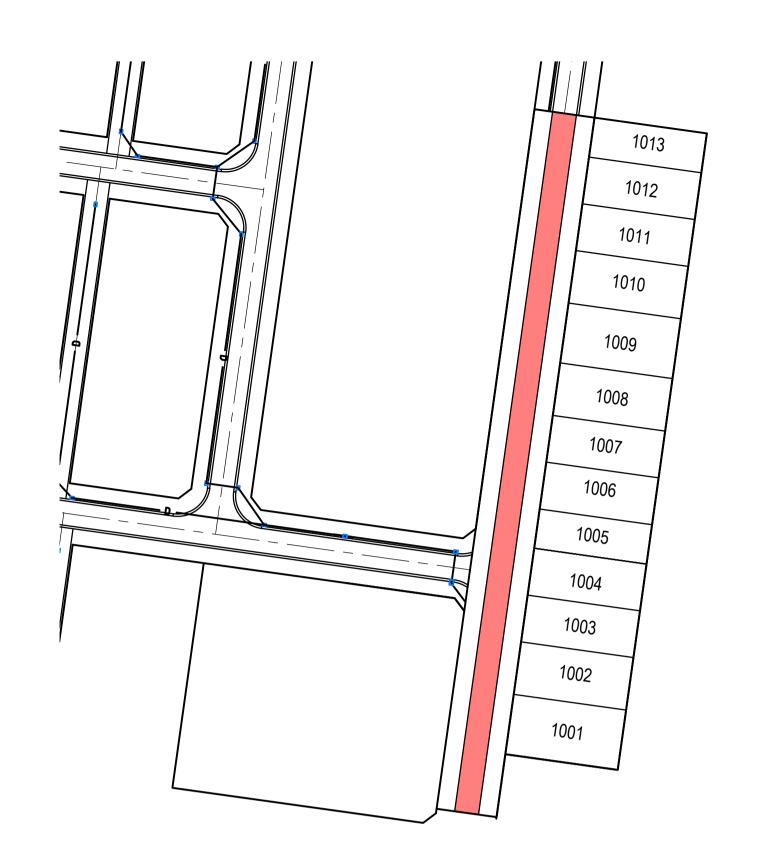


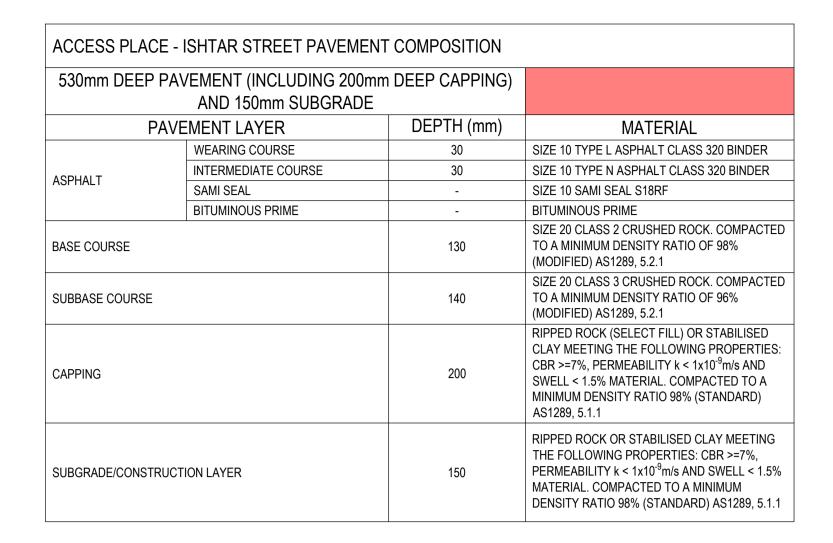
Alamora Estate - Stage 10
Wyndham City Council
Road and Drainage
Pit Schedule

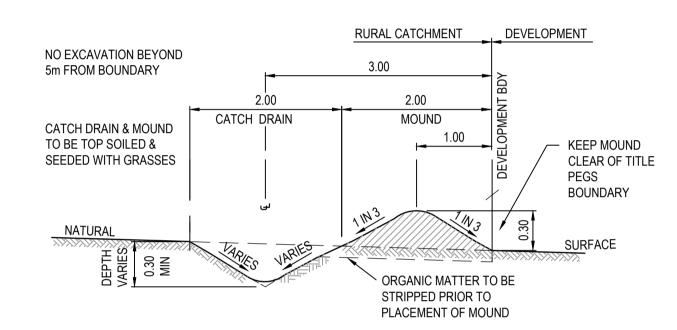
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SHEET No. REVISION D

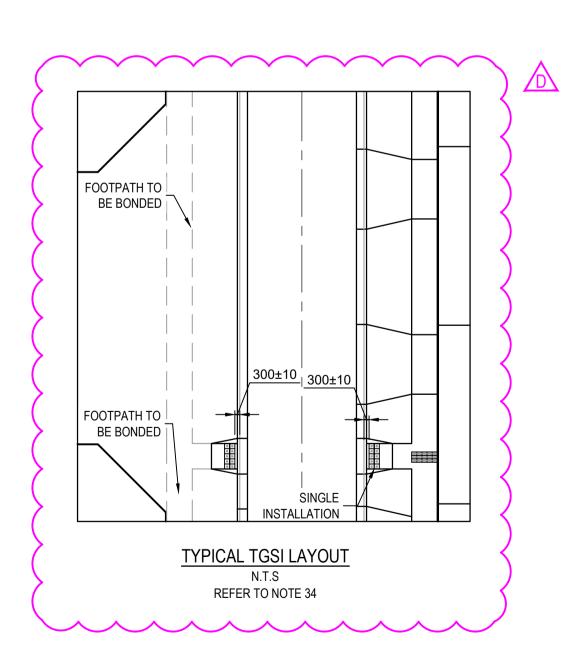
SCALE AS SHOWN AT A1

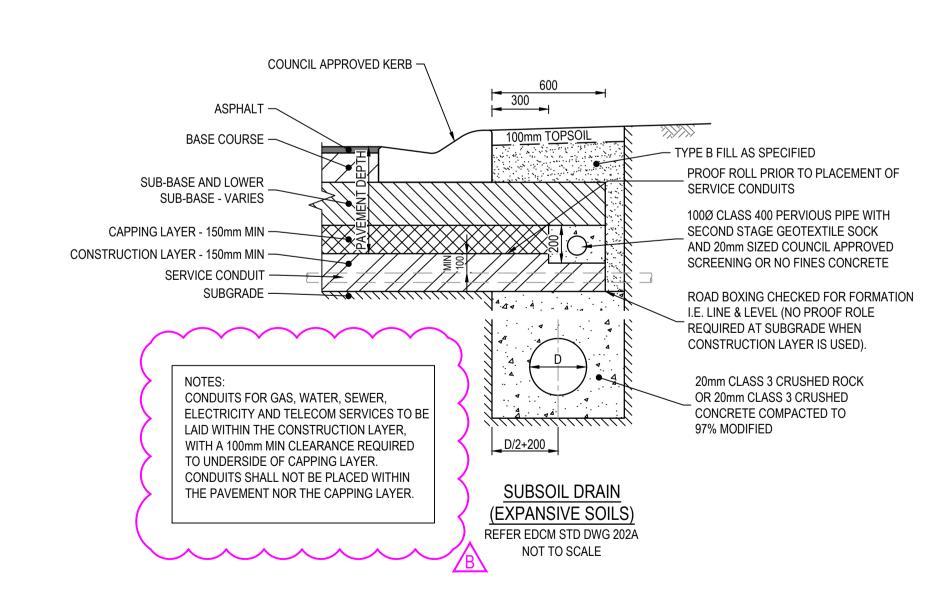


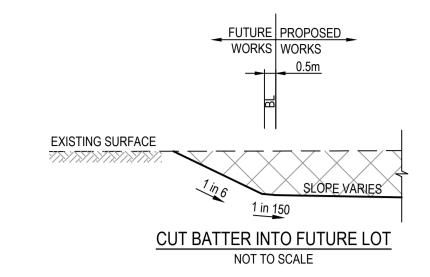


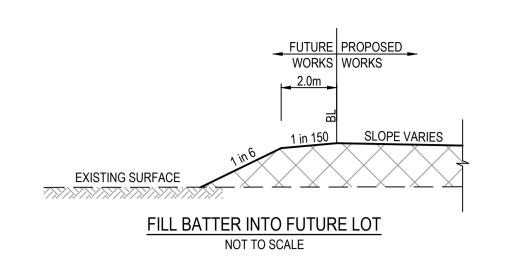


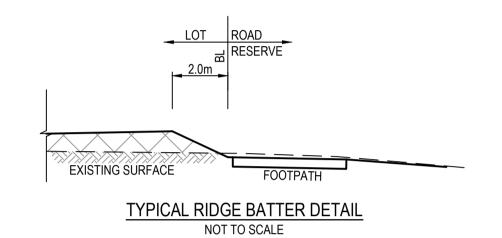
# TYPICAL SECTION THROUGH CATCH DRAIN NOT TO SCALE

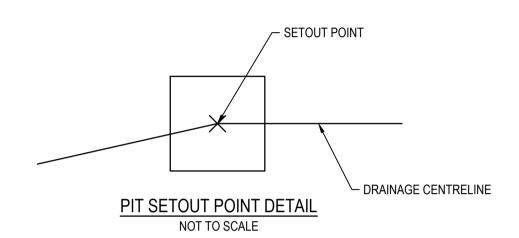


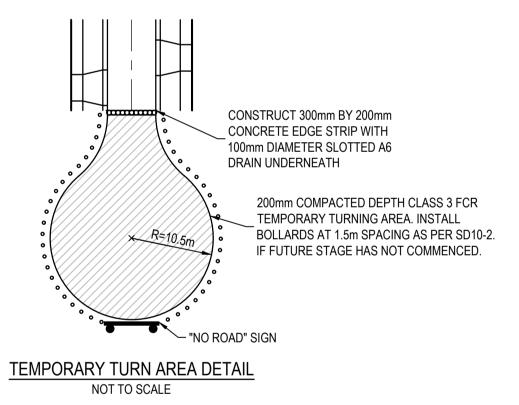


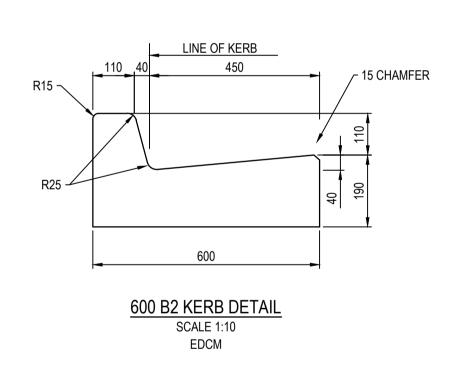












# **WARNING** BEWARE OF UNDERGROUND SERVICES their exact position should be proven on site.

The locations of underground services are approximate only and No guarantee is given that all existing services are shown. ocate all underground services before commencement of works **DIAL 1100 BEFORE YOU DIG** www.1100.com.au

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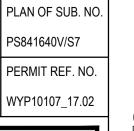
ΞV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
4	25.01.22	ISSUED FOR INFORMATION ONLY	T.HO	H.EHSANI	C.SEXTON	S.ANTONOPOU
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)	25.05.22	FOOTPATH WEST OF ISHTAR STREET AMENDED	A.MONTGOMERY	A.MONTGOMERY	C.SEXTON	S.ANTONOPOU

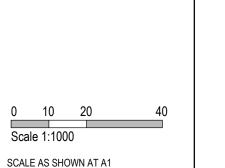




SUBJECT TO APPROVAL









Melbourne, VIC 3008

Ph 03 9514 1500



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

MELWAYS REF PROJECT / DRAWING No. 234 D4 2070E-A10-411

REVISION

Project Name:	Desig	n Package: 2070E-A10
Alamora Stage 10	Date: 11/11/2021	

PHASE	DISC	CIPLINE CODE		CTION / OPERATIONS / MAINTENANCE FENTIAL RISK	RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED YES/NO	Residual Risk Likelihood (0-5)	Residual Risk Consequence (0-5)	k Residual e 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 Ut	tilities 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 L	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 vechicles 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 F	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 F	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 F	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 F	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
Operational	DD	Drainage	Drainage Crated Bits	Trip/fall hazard with large spaced grate	Relevant Authority	Increased potential for accidents	Provide pedestrian/bicycle friendly grates where applicable.	Design in accordance with authority and manufacturers	. KI	0		
Operational	DR	3	Grated Pits		,	Increased risk to maintenance	Refer to pit schedule	standards	N	3	2	6
Operational	DR	Drainage	Non Standard Large Pits	Potential for pit failure	Relevant Authority	crews/ vehicles	Structural design in accordance with relevant design principles.  Fencing to be provided where culverts/headwalls are at height	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	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 Sewer Manhole located adjacent to Retaining	Falling from height during construction or			Provide temperary fencing until such time that narrows					
Construction	SE	Sewer	Wall Alignment	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					Dita design of heless				
Operational	ES EI	lectrical 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					Dite designed below ground Where shares				
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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Alamora Estate - Stage 10
Wyndham City Council
Road and Drainage
Safety In Design

SHEET No. REVISION B

MELWAYS REF PROJECT / DRAWING No. 234 D4 2070E-A10-500

Score remaining residual risk