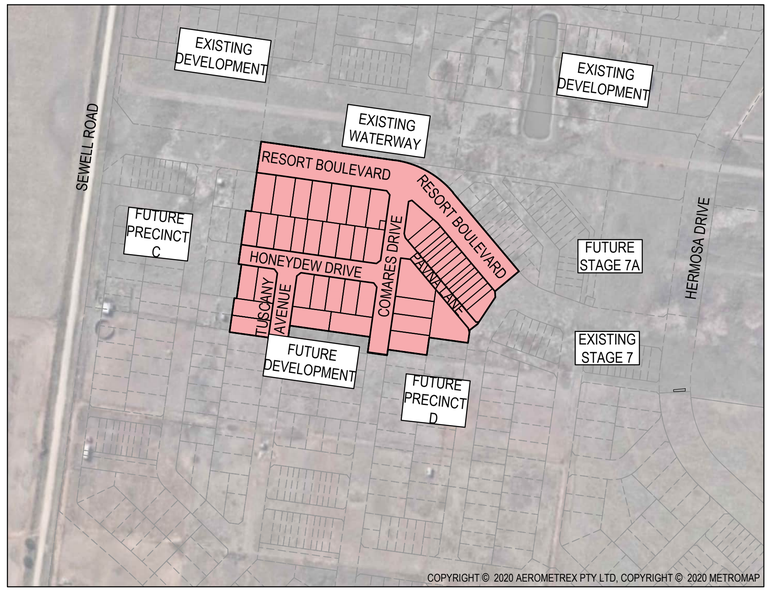
Alamora Estate
Stage 8, Sayers Road, Tarneit



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-A08-500
ASSESS THE RISK - STAY SAFE

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
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REGISTERED PROFESSIONAL ENGINEER APPROVAL:

Drawing Index

SERVICES OFFSET TABLE

ROAD NAME	GAS	WATER	RECYCLED WATER	ELECTRICITY	OPTIC FIBRE	SEWER
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
TUSCANY AENUE	2.10 W	3.10 W	2.60 W	2.50E	1.80E	-
HONEYDEW DRIVE	2.10 N	3.10 N	2.60 N	2.50 S	1.80 S	-
COMARES DRIVE	2.10 W	3.10 W	2.60 W	2.50 E	1.80 E	1.00 W
RESORT BOULEVARD	2.10 S	3.10 S	2.60 S	2.50 N	1.80 N	-
PAVNA LANE	-	-	-	-	-	1.00 N

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
TUSCANY AENUE	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
HONEYDEW DRIVE	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
COMARES DRIVE	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
RESORT BOULEVARD	25.50	6.40	7.30	7.60	B2	B2	4.20	4.20
PAVNA LANE	8.00	-	-	-	-	-	-	-

GENERAL NOTES (WYNDHAM CITY COUNCIL)

1. 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 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 RELEVENT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. 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.
7. 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.
8. 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.
9. 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 SUPERINTENDENT.
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 723m
    TOTAL LENGTH OF DRAINS CONSTRUCTED IS 957m
34. ALL TGSI 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 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.

AS CONSTRUCTED PLANS
The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

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PLAN OF SUB. NO. PS841640V/S16
PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

0 25 50 100
Scale 1:2500
SCALE AS SHOWN AT A1

N

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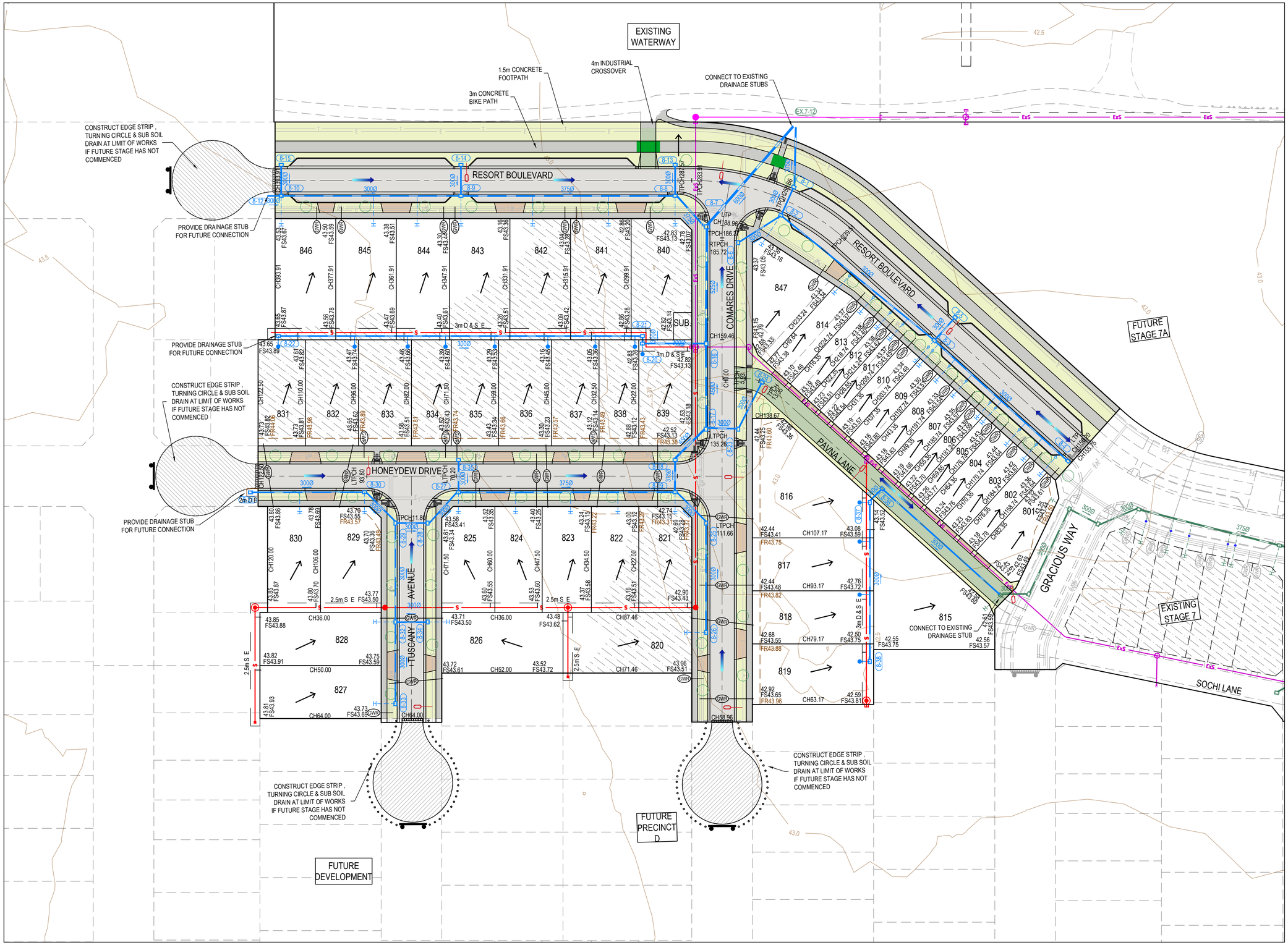
ALAMORA Tarneit

Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Cover Plan & General Notes
Sheet Index

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-101	01 of 20	3

DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-101.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:54:39 AM



LEGEND - LAYOUT PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
S	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
E	ELECTRICITY (U.GROUND)
O/H	ELECTRICITY (O.HEAD)
G	GAS
T	TELSTRA
O	OPTIC FIBRE
W	WATER
RW	RECYCLE WATER
Ag	AG. DRAIN
GW	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
Ex H	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
Ex O/H E	EXISTING ELECTRICITY OVERHEAD
Ex G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex O	EXISTING OPTIC FIBRE
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex Ag	EXISTING AG. DRAIN
GW	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
Fut H	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
Fut O/H E	FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
Fut O	FUTURE OPTIC FIBRE
Fut W	FUTURE WATER
Fut RW	FUTURE RECYCLED WATER
Fut Ag	FUTURE AG. DRAIN
GW	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
TW159.60	TOP OF RETAINING WALL LEVEL
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	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
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING
	PROPOSED PL POLE

WARNING

BEWARE OF UNDERGROUND SERVICES

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No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

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PLAN OF SUB. NO.	PS841640V/S16
PERMIT REF. NO.	WYP10107_17.02

AS CONSTRUCTED

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

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ALAMORA Tarneit

Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Layout Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-111	02 of 20	3

DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-111.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:54:52 AM

EXISTING WATERWAY

RESORT BOULEVARD

STREET SIGNS

D4-5

NO THROUGH ROAD G9-18A

846 845 844 843 842 841 840

GIVE WAY R1-2A

SUB.

847

RESORT BOULEVARD

814 813 812 811 810 809 808 807 806 805 804 803 802 801

FUTURE STAGE 7A

831 832 833 834 835 836 837 838 839

STREET SIGNS

HONEYDEW DRIVE

COMARES DRIVE

PAVNA LANE

816

817 818 819

815

830 829 828 827

TUSCANY AVENUE

825 824 823 822 821

826 820

EXISTING STAGE 7

FUTURE DEVELOPMENT

FUTURE PRECINCT D

LEGEND - SIGN AND LINEMARKING

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

NO THROUGH ROAD G9-18A	NO THROUGH ROAD
D4-5	HAZARD MARKER
	STREET SIGNS
GIVE WAY R1-2A	GIVE WAY SIGN

NOTES

1. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPM'S AT MAX 6m SPACING.
2. RRPMs TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL MANUAL VOL 2.
3. ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

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PERMIT REF. NO.	WYP10107_17.02

AS CONSTRUCTED

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

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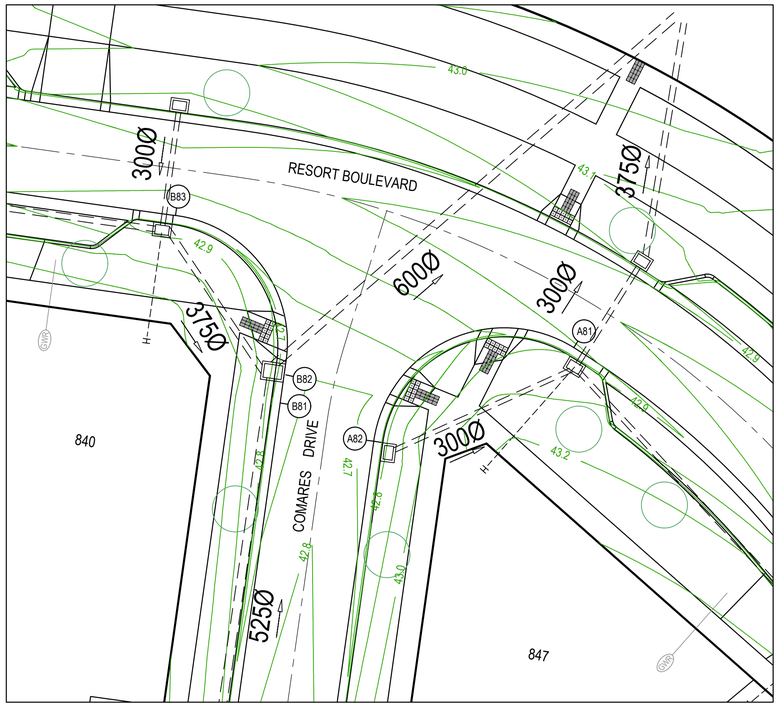

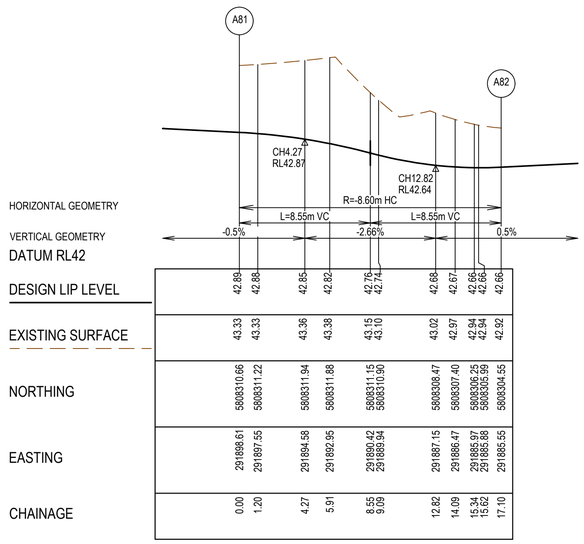

HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL42

DESIGN LIP LEVEL	42.89	42.88	42.85	42.82	42.76	42.74	42.68	42.67	42.66	42.66							
EXISTING SURFACE	43.33	43.33	43.36	43.38	43.15	43.10	43.02	42.97	42.94	42.94	42.92						
NORTHING	5808310.66	5808311.22	5808311.94	5808311.88	5808311.15	5808310.90	5808308.47	5808307.40	5808306.25	5808305.99	5808304.55						
EASTING	291898.61	291897.55	291894.58	291892.95	291890.42	291889.94	291887.15	291886.47	291885.97	291885.88	291885.55						
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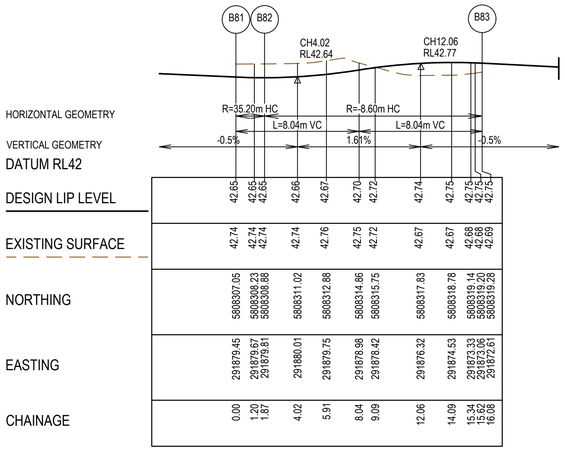
LIP LINE A8



HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL42

DESIGN LIP LEVEL	42.65	42.65	42.65	42.66	42.67	42.70	42.72	42.74	42.75	42.75	42.75						
EXISTING SURFACE	42.74	42.74	42.74	42.74	42.76	42.75	42.72	42.67	42.67	42.68	42.69						
NORTHING	5808307.05	5808308.23	5808308.88	5808311.02	5808312.88	5808314.86	5808315.75	5808317.83	5808318.78	5808319.14	5808319.20	5808319.93					
EASTING	291879.45	291876.67	291879.81	291880.01	291879.75	291878.98	291878.42	291876.32	291874.53	291873.33	291873.06	291872.61					
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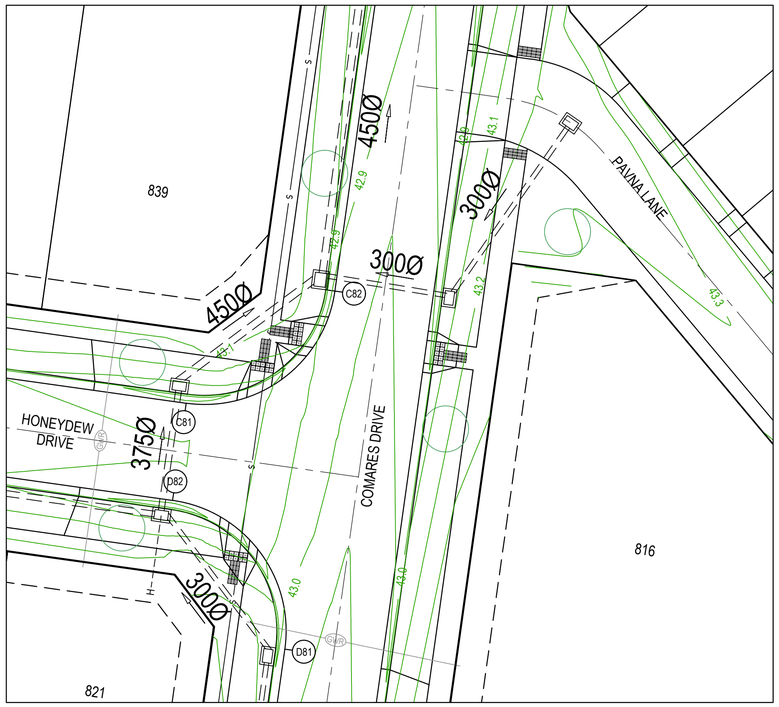
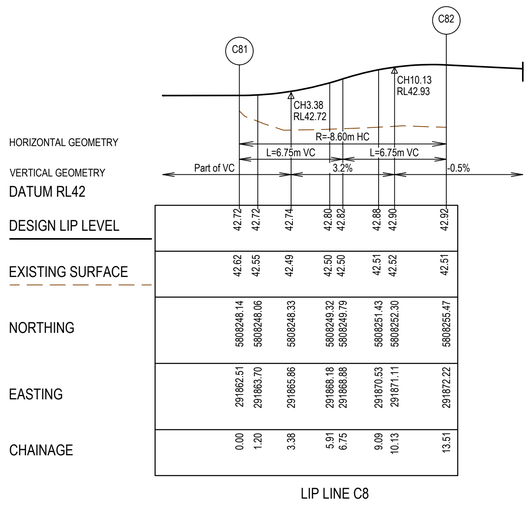
LIP LINE B8





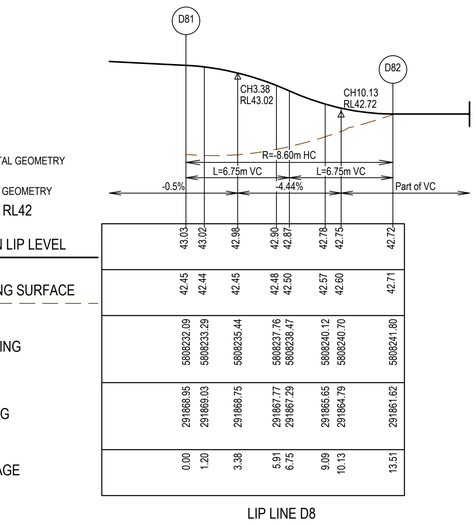
HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL42

DESIGN LIP LEVEL	42.72	42.72	42.74	42.80	42.82	42.88	42.90	42.92									
EXISTING SURFACE	42.62	42.55	42.49	42.50	42.50	42.51	42.52	42.51									
NORTHING	5808248.14	5808248.06	5808248.33	5808249.32	5808249.79	5808251.43	5808252.30	5808255.47									
EASTING	291862.51	291863.70	291865.86	291868.18	291868.88	291870.53	291871.11	291872.22									
CHAINAGE	0.00	1.20	3.38	5.91	6.75	9.09	10.13	13.51									

LIP LINE C8



HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL42

DESIGN LIP LEVEL	43.03	43.02	42.98	42.90	42.87	42.78	42.75	42.72									
EXISTING SURFACE	42.45	42.44	42.45	42.48	42.50	42.57	42.60	42.71									
NORTHING	5808232.09	5808233.29	5808235.44	5808237.76	5808238.47	5808240.12	5808240.70	5808241.80									
EASTING	291868.95	291869.03	291868.75	291867.77	291867.29	291865.65	291864.79	291861.62									
CHAINAGE	0.00	1.20	3.38	5.91	6.75	9.09	10.13	13.51									

LIP LINE D8

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
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

NOTES

1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
5. SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.

AS CONSTRUCTED PLANS

The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

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AS CONSTRUCTED

PLAN OF SUB. NO.	PS841640V/S16
PERMIT REF. NO.	WYP10107_17.02

0 2 4 8
0 0.2 0.4 0.8
Scale H1:200, V1:20
0 2 4 8
Scale 1:200
SCALE AS SHOWN AT A1

N

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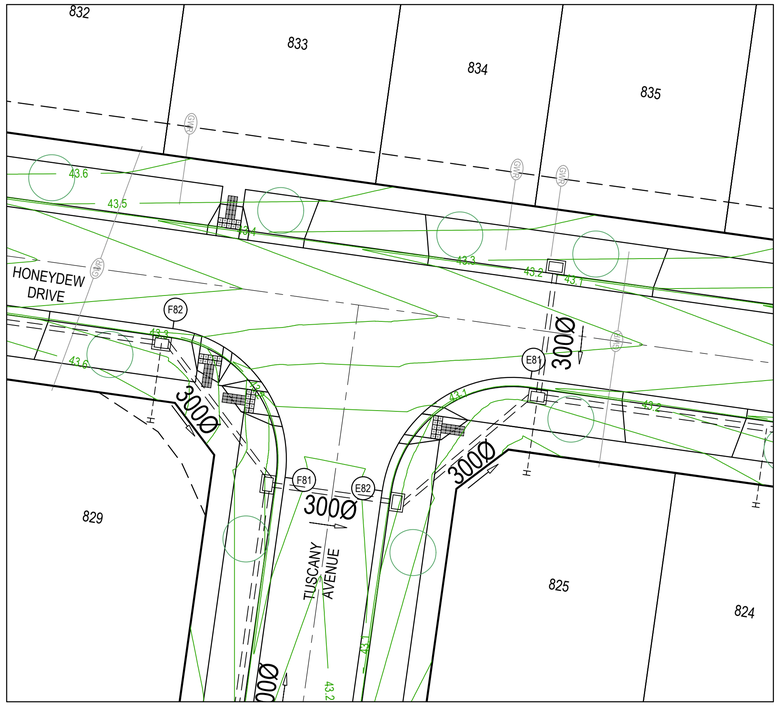
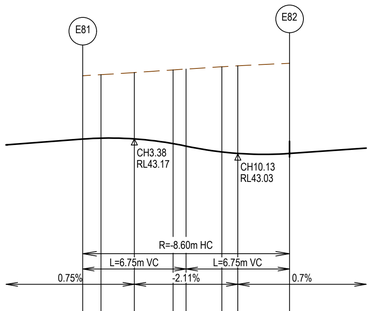
ALAMORA Tarneit

Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Intersection Detail Plan - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-181	04 of 20	3

DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-181.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:55:33 AM





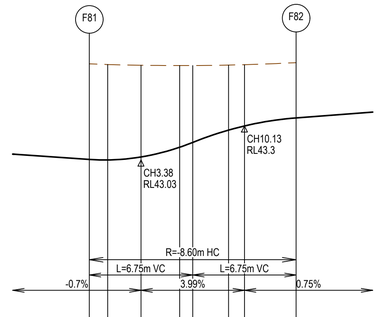
HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL42

DESIGN LIP LEVEL	43.15	43.15	43.15	43.12	43.10	43.06	43.05	43.05					
EXISTING SURFACE	43.56	43.57	43.58	43.60	43.61	43.62	43.63	43.64					
NORTHING	5808249.90	5808249.98	5808249.71	5808248.72	5808248.25	5808246.60	5808245.74	5808242.57					
EASTING	291803.79	291802.59	291800.44	291798.12	291797.41	291795.76	291795.18	291794.08					
CHAINAGE	0.00	1.20	3.38	5.91	6.75	9.09	10.13	13.51					

LIP LINE E8



HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL42

DESIGN LIP LEVEL	43.05	43.05	43.07	43.13	43.17	43.25	43.27	43.33					
EXISTING SURFACE	43.68	43.67	43.67	43.67	43.67	43.67	43.67	43.69					
NORTHING	5808243.46	5808244.66	5808246.81	5808249.13	5808249.83	5808251.48	5808252.06	5808253.17					
EASTING	291787.74	291787.82	291787.55	291786.96	291786.09	291784.44	291783.58	291780.41					
CHAINAGE	0.00	1.20	3.38	5.91	6.75	9.09	10.13	13.51					

LIP LINE F8

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
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

NOTES

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5. SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS841640V/S16

PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

0 2 4 8
0 0.2 0.4 0.8
Scale H1:200, V1:20
0 2 4 8
Scale 1:200

SCALE AS SHOWN AT A1

N

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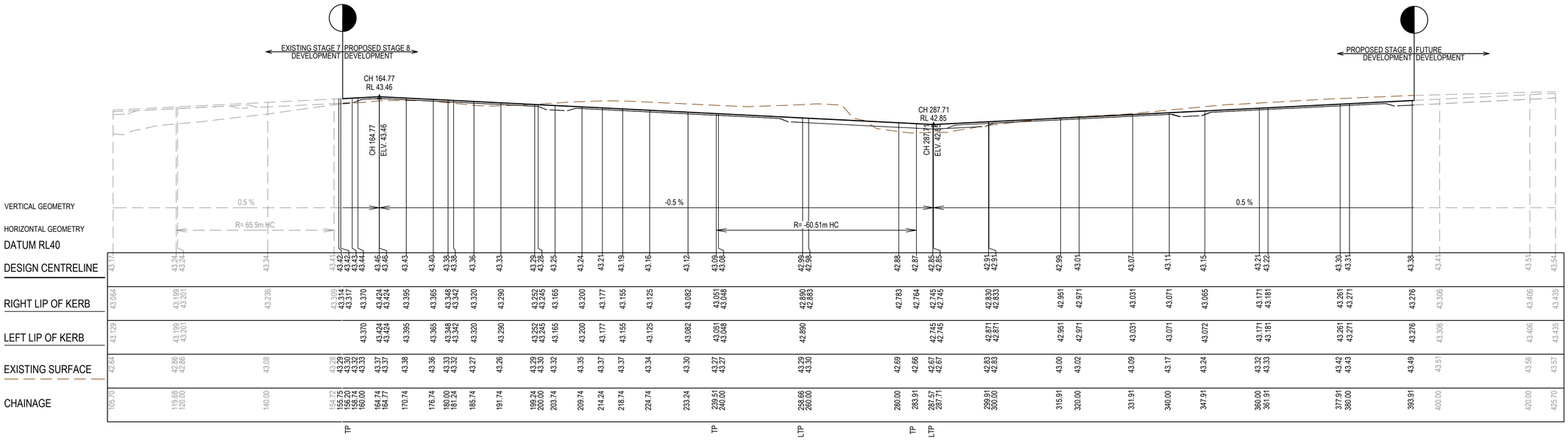
ALAMORA Tarneit

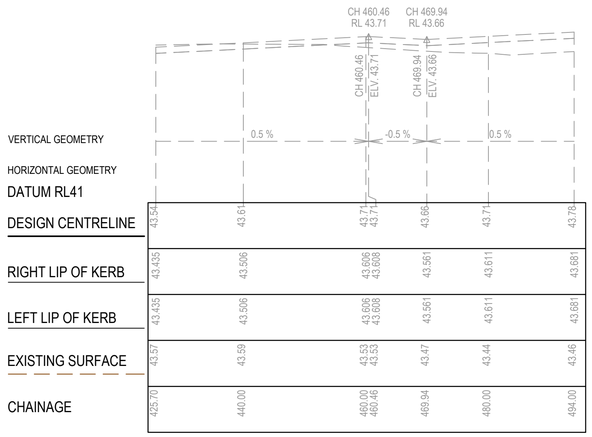
Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Intersection Detail Plan - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-182	05 of 20	2

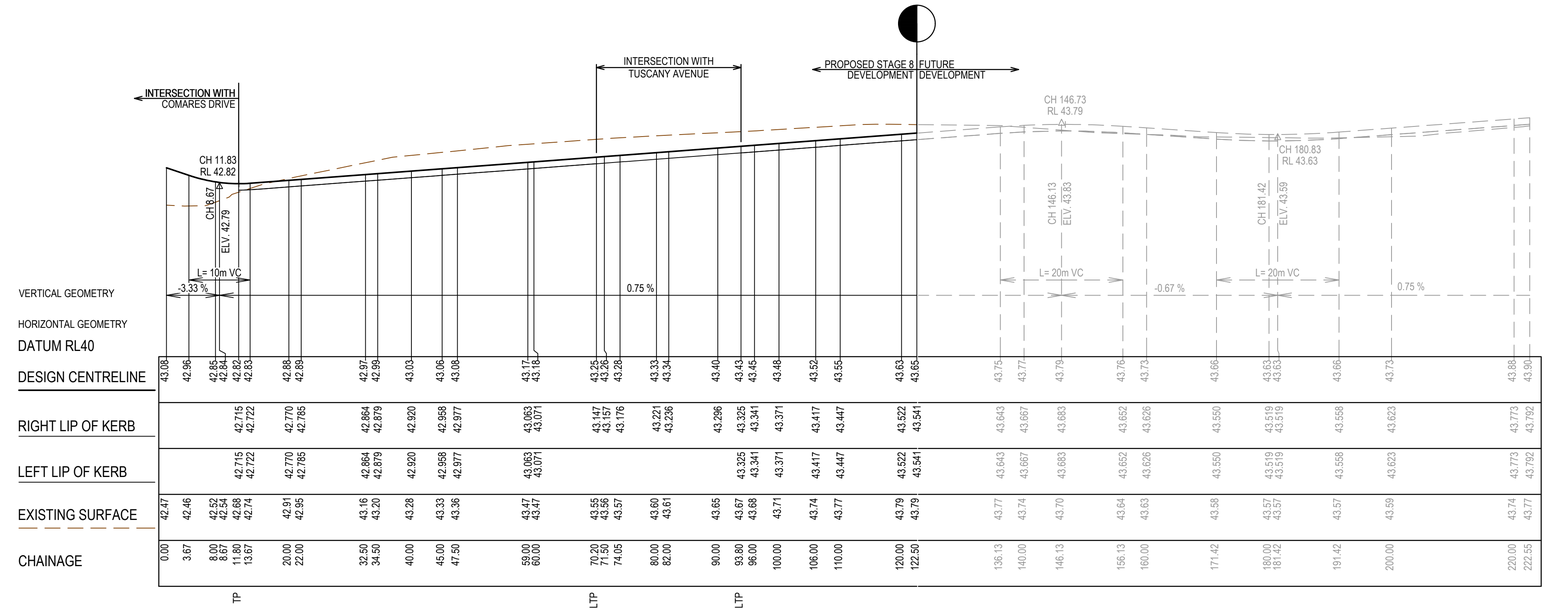
DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-182.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:55:51 AM



RESORT BOULEVARD LONGITUDINAL SECTION - 1



RESORT BOULEVARD LONGITUDINAL SECTION - 2



HONEYDEW DRIVE LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS841640V/S16

PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

0 5 10 20
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Scale H1:500, V1:50

SCALE AS SHOWN AT A1

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ALAMORA Tarneit

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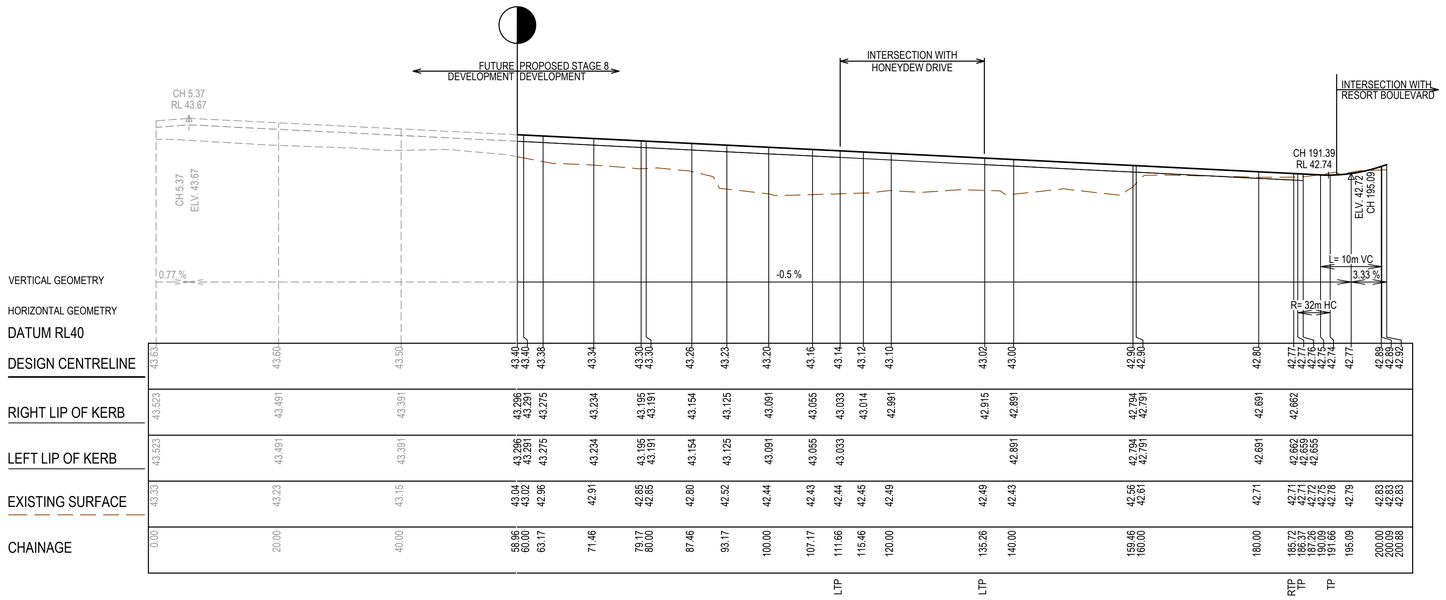
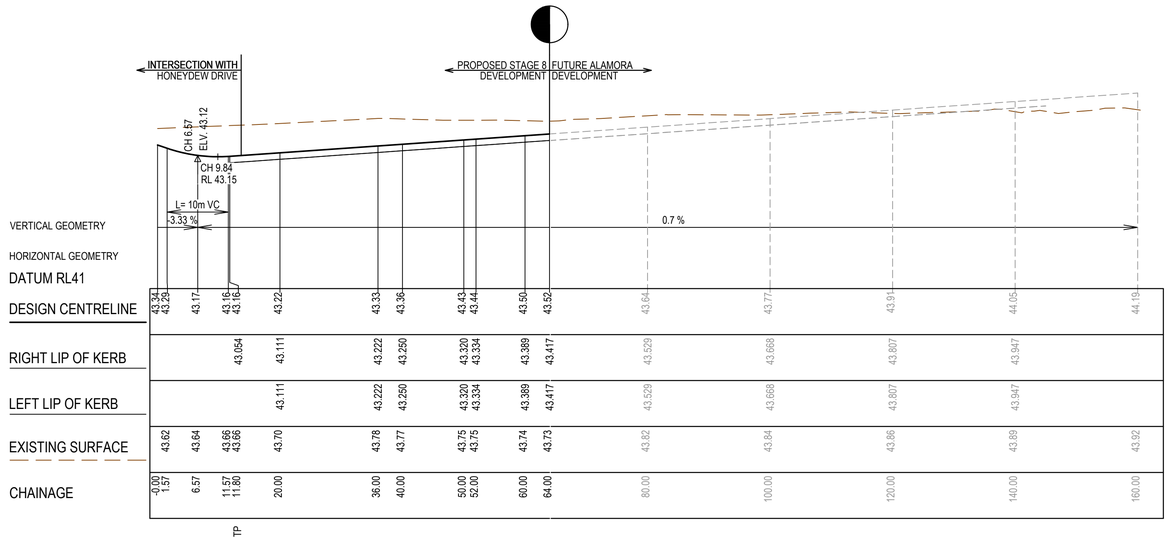
Wyndham City Council
Road and Drainage
Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-201	06 of 20	3

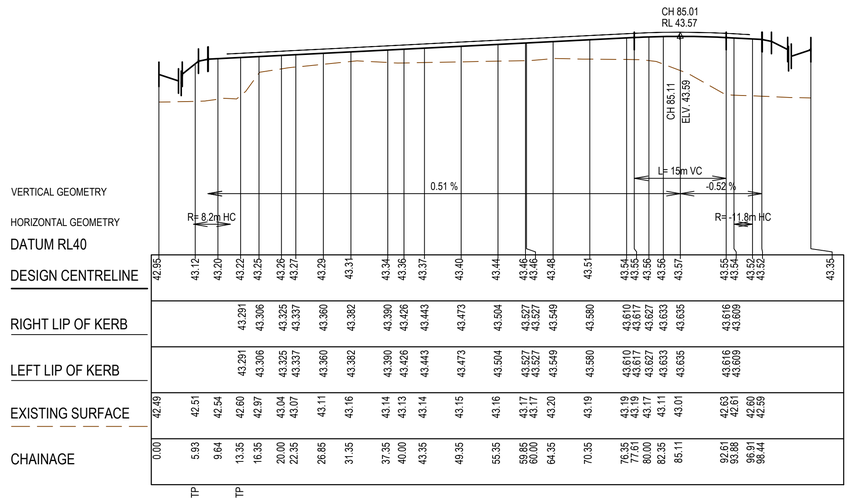
DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-201.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:56:08 AM



COMARES DRIVE LONGITUDINAL SECTION



TUSCANY AVENUE LONGITUDINAL SECTION



PAVNA DRIVE LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS841640V/S16

PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

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Scale H1:500, V1:50

SCALE AS SHOWN AT A1

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ALAMORA Tarneit

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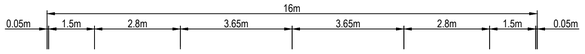
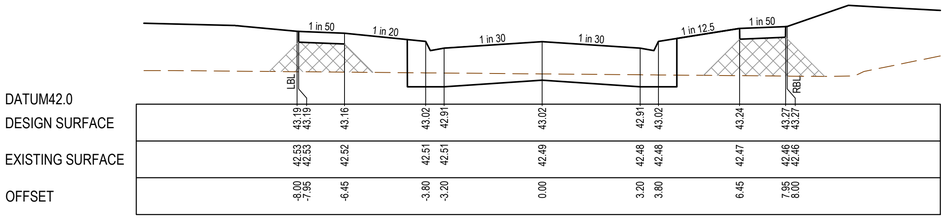
Wyndham City Council
Road and Drainage
Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-202	07 of 20	3

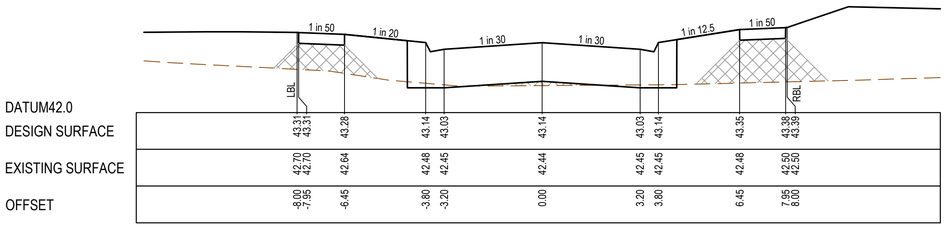
DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-202.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:56:25 AM

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

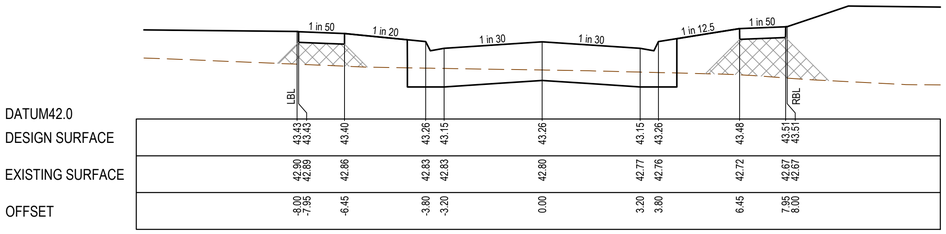




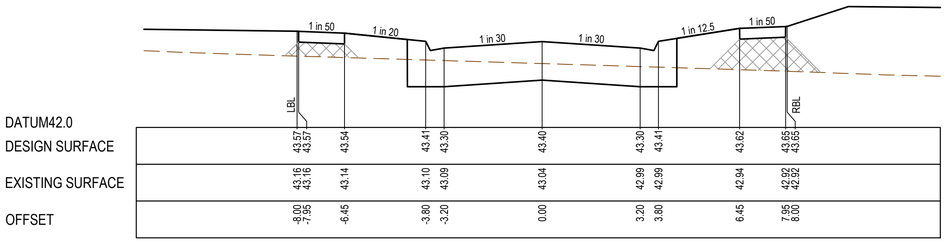
LTPCH 135.26



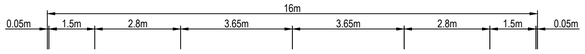
LTPCH 111.66

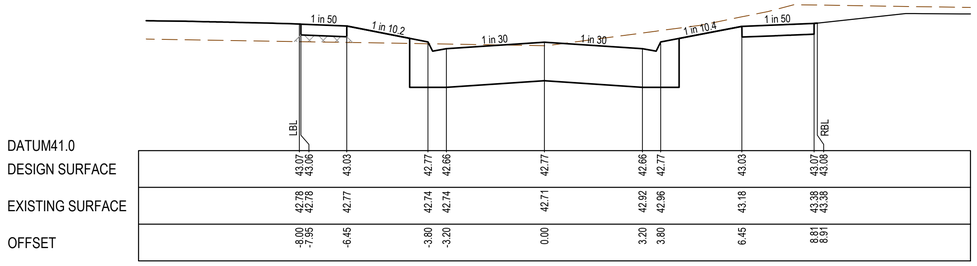


CH 87.46

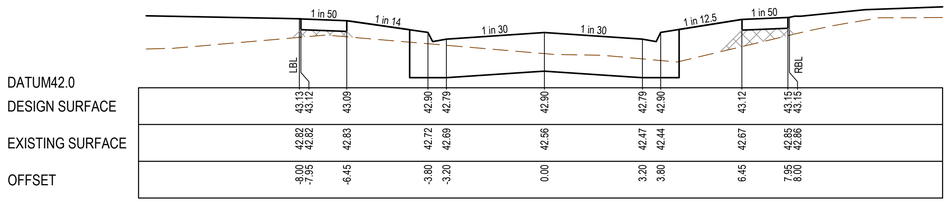


CH 58.96





RTPCH 185.72



CH 159.46

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.	PS841640V/S16
PERMIT REF. NO.	WYP10107_17.02

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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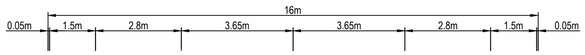
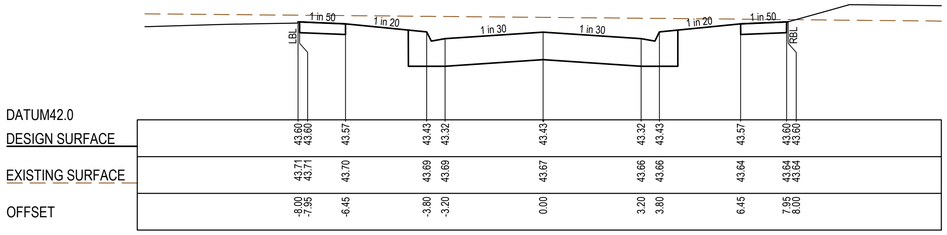
ALAMORA Tarneit

Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Cross Sections: Comares Drive
Ch 0.00 - Ch 185.72

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-251	08 of 20	2

DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-251.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:56:40 AM





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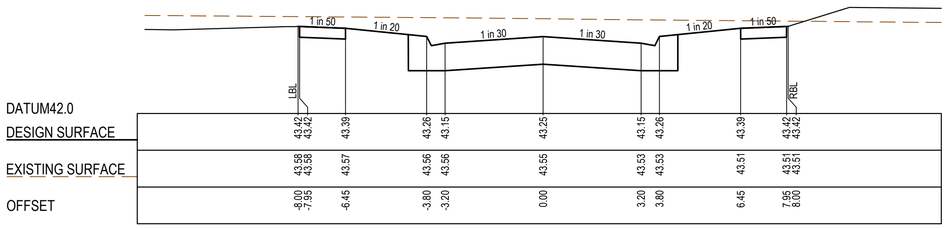
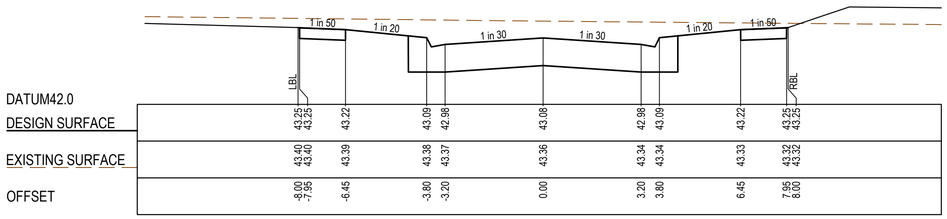
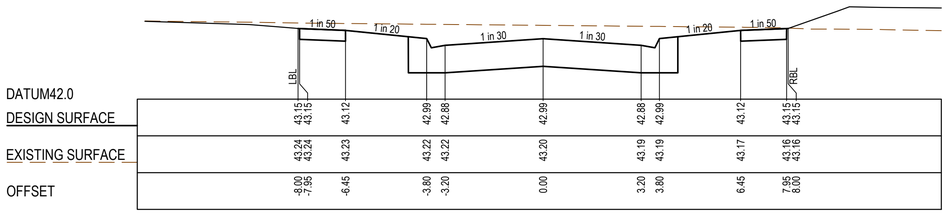


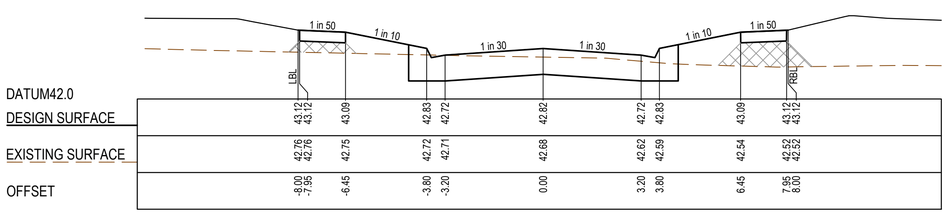
LTPCH 70.20



CH 47.50

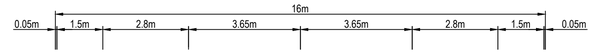


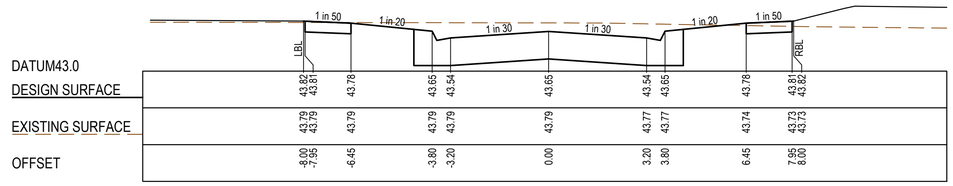
CH 34.50



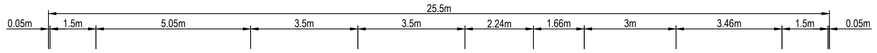
TPCH 11.80

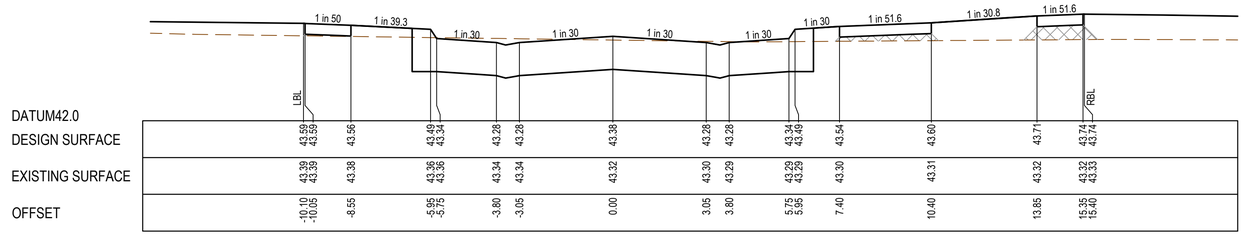
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



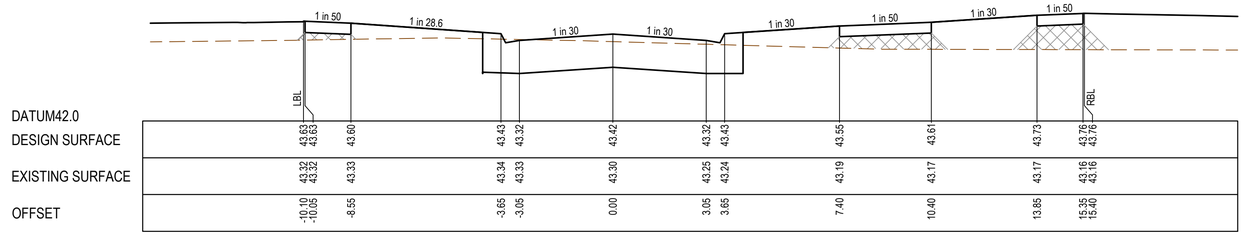


CH 122.50





CH 181.24



TPCH 156.20

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.	PS841640V/S16
PERMIT REF. NO.	WYP10107_17.02

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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ALAMORA Tarneit

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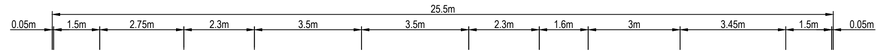
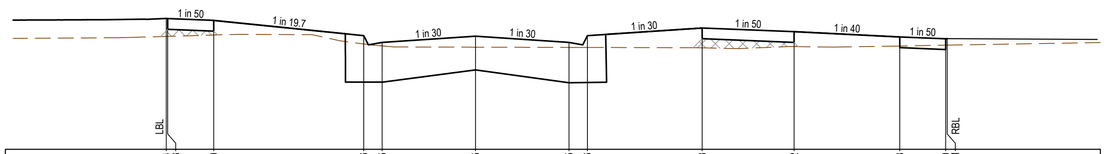
Wyndham City Council
Road and Drainage
Cross Sections: Honeydew Drive Ch 11.80- Ch 122.50
Resort Boulevard Ch 156.20 - Ch 181.24

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-252	09 of 20	3

DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-252.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:57:02 AM

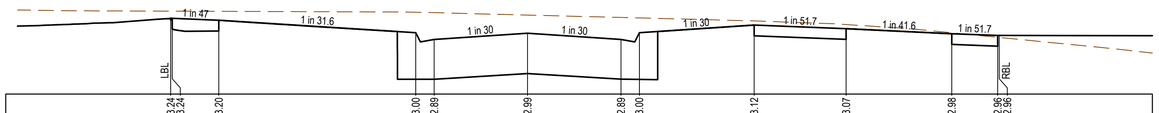
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE





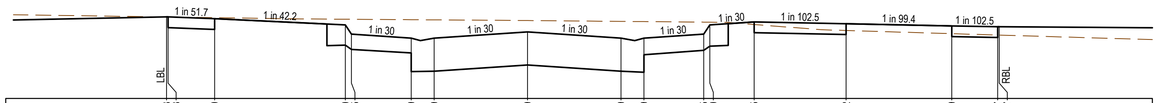
DATUM41.0												
DESIGN SURFACE	43.14	43.10	42.86	42.75	42.85	42.75	42.86	42.98	42.92	42.83	42.80	
	43.13										42.81	
EXISTING SURFACE	42.84	42.87	42.72	42.69	42.67	42.66	42.66	42.66	42.68	42.69	42.70	
	42.84										42.70	
OFFSET	-10.10	-8.55	-3.65	-3.05	0.00	3.05	3.65	7.40	10.40	13.85	15.35	
	-10.05										15.40	

LTPCH 287.57



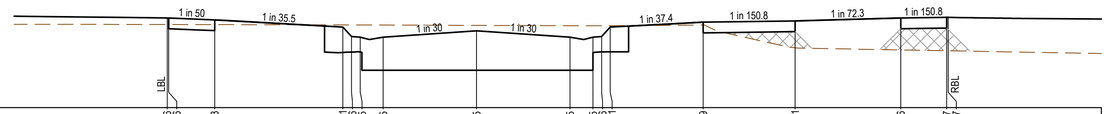
DATUM42.0												
DESIGN SURFACE	43.24	43.20	43.00	42.89	42.99	42.89	43.00	43.12	43.07	42.98	42.96	
	43.24										42.96	
EXISTING SURFACE	43.35	43.35	43.34	43.33	43.29	43.25	43.24	43.19	43.13	43.00	42.93	
	43.35										42.92	
OFFSET	-11.65	-10.08	-3.65	-3.05	0.00	3.05	3.65	7.40	10.40	13.85	15.35	
	-11.60										15.40	

LTPCH 258.66



DATUM42.0												
DESIGN SURFACE	43.33	43.30	43.20	42.99	43.09	42.99	42.99	43.05	43.25	43.19	43.17	
	43.33		43.08	42.99		42.99	42.99	43.20			43.17	
EXISTING SURFACE	43.33	43.32	43.29	43.29	43.27	43.26	43.26	43.25	43.21	43.06	43.04	
	43.33		43.29	43.28		43.26	43.26	43.25	43.11	43.06	43.04	
OFFSET	-11.79	-10.22	-5.95	-3.80	0.00	3.05	3.80	5.75	7.40	13.85	15.35	
	-11.74		-5.75	-3.05		3.05	3.80	5.95	10.40		15.40	

TPCH 239.51



DATUM42.0												
DESIGN SURFACE	43.46	43.43	43.31	43.16	43.15	43.25	43.15	43.15	43.39	43.41	43.46	43.47
	43.46							43.16				43.47
								43.31				
EXISTING SURFACE	43.36	43.35	43.35	43.35	43.35	43.34	43.34	43.33	43.35	42.98	42.94	42.93
	43.36		43.35					43.33				42.93
								43.34				
OFFSET	-10.10	-8.55	-4.36	-4.08	-3.05	0.00	3.05	3.80	7.40	10.40	13.85	15.35
	-10.05		-3.80					4.08				15.40
								4.36				

CH 206.74

AS CONSTRUCTED PLANS

The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

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PLAN OF SUB. NO. PS841640V/S16

PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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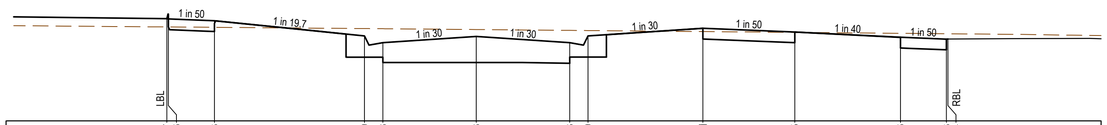
ALAMORA Tarneit

Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Cross Sections: Resort Boulevard
Ch 206.74 - Ch 287.57

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-253	10 of 20	3

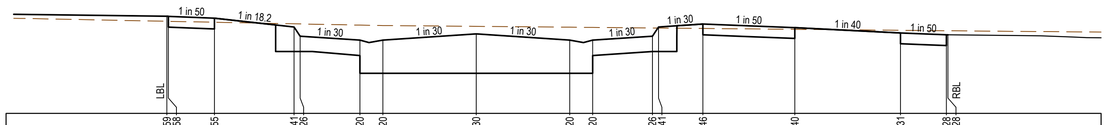
DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-253.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:57:19 AM

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



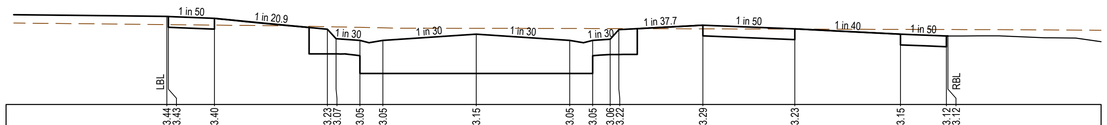
	LBL										RBL
DATUM42.0											
DESIGN SURFACE	43.67 43.66	43.63	43.39	43.28	43.38	43.28	43.39	43.51	43.45	43.36	43.33 43.34
EXISTING SURFACE	43.53 43.53	43.53	43.51	43.50	43.49	43.48	43.47	43.46	43.44	43.43	43.42 43.42
OFFSET	-10.10 -10.05	-8.55	-3.65	-3.05	0.00	3.05	3.65	7.40	10.40	13.85	15.35 15.40

CH 393.91



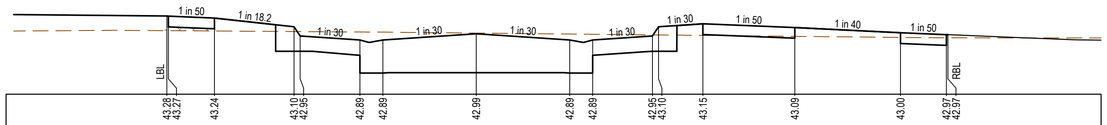
	LBL										RBL
DATUM42.0											
DESIGN SURFACE	43.59 43.58	43.55	43.41 43.26	43.20	43.20	43.30	43.20	43.20	43.26 43.41	43.46	43.40	43.31	43.28 43.28
EXISTING SURFACE	43.50 43.50	43.49	43.46 43.46	43.44	43.43	43.42	43.41	43.40	43.39 43.39	43.39	43.37	43.36	43.35 43.35
OFFSET	-10.10 -10.05	-8.55	-5.95 -5.75	-3.80	-3.05	0.00	3.05	3.80	5.75 5.95	7.40	10.40	13.85	15.35 15.40

CH 377.91



	LBL										RBL
DATUM42.0											
DESIGN SURFACE	43.44 43.43	43.40	43.23 43.07	43.05	43.05	43.15	43.05	43.05 43.22	43.29	43.23	43.15	43.12 43.12
EXISTING SURFACE	43.30 43.30	43.29	43.27 43.27	43.26	43.25	43.24	43.24	43.24 43.24	43.23	43.23	43.22	43.22 43.22
OFFSET	-10.10 -10.05	-8.55	-4.86 -4.58	-3.80	-3.05	0.00	3.05	3.80 4.86	7.40	10.40	13.85	15.35 15.40

CH 347.91



	LBL										RBL
DATUM42.0											
DESIGN SURFACE	43.28 43.27	43.24	43.10 42.95	42.89	42.89	42.99	42.89	42.89	42.95 43.10	43.15	43.09	43.00	42.97 42.97
EXISTING SURFACE	43.04 43.04	43.03	43.02 43.02	43.02	43.01	43.00	42.98	42.98	42.97 42.97	42.96	42.94	42.93	42.92 42.92
OFFSET	-10.10 -10.05	-8.55	-5.95 -5.75	-3.80	-3.05	0.00	3.05	3.80	5.75 5.95	7.40	10.40	13.85	15.35 15.40

CH 315.91

AS CONSTRUCTED PLANS

The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

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PLAN OF SUB. NO. PS841640V/S16

PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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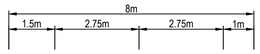
ALAMORA Tarneit

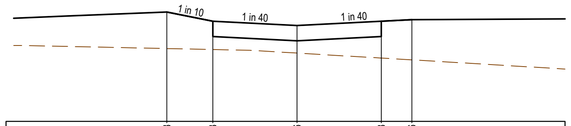
Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Cross Sections: Resort Boulevard
Ch 315.91 - Ch 393.91

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-254	11 of 20	3

DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-254.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:57:34 AM

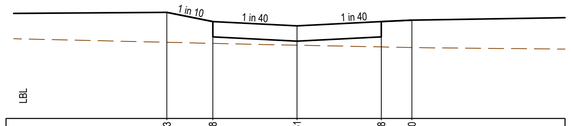
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE





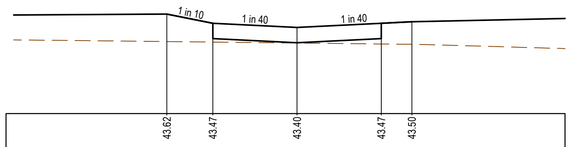
DATUM42.0						
DESIGN SURFACE	43.78	43.63	43.56	43.63	43.66	
EXISTING SURFACE	43.19	43.17	43.11	43.03	43.00	
OFFSET	-4.25	-2.75	0.00	2.75	3.75	

CH 82.35



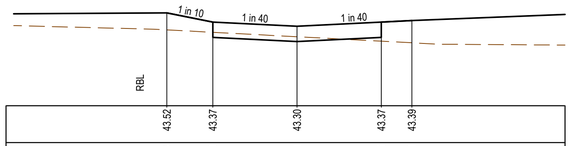
DATUM42.0						
DESIGN SURFACE	43.73	43.58	43.51	43.58	43.60	
EXISTING SURFACE	43.24	43.23	43.19	43.17	43.16	
OFFSET	-4.25	-2.75	0.00	2.75	3.75	

CH 70.35



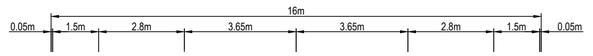
DATUM42.0						
DESIGN SURFACE	43.62	43.47	43.40	43.47	43.50	
EXISTING SURFACE	43.17	43.17	43.15	43.14	43.13	
OFFSET	-4.25	-2.75	0.00	2.75	3.75	

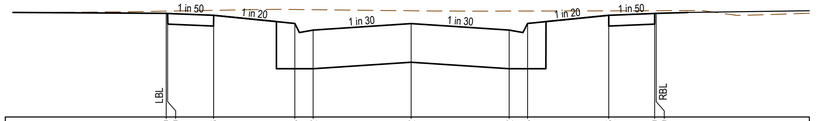
CH 49.35



DATUM42.0						
DESIGN SURFACE	43.52	43.37	43.30	43.37	43.39	
EXISTING SURFACE	43.24	43.20	43.13	43.05	43.03	
OFFSET	-4.25	-2.75	0.00	2.75	3.75	

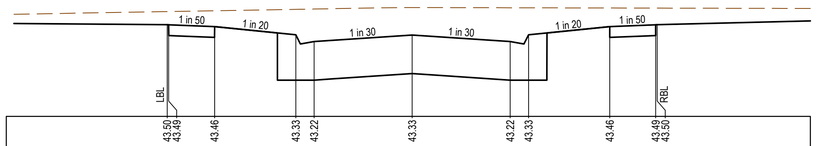
CH 28.35





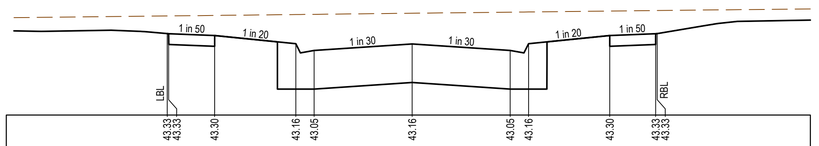
DATUM42.0								
DESIGN SURFACE	43.69 43.69	43.66	43.53 43.42	43.52	43.42 43.53	43.66	43.66 43.69	
EXISTING SURFACE	43.73 43.73	43.74	43.75 43.75	43.73	43.73 43.73	43.73	43.73 43.73	
OFFSET	-9.00 -7.95	-6.45	-3.80 -3.20	0.00	3.20 3.80	6.45	7.95 9.00	

CH 64.00



DATUM42.0								
DESIGN SURFACE	43.50 43.49	43.46	43.33 43.22	43.33	43.22 43.33	43.46	43.49 43.50	
EXISTING SURFACE	43.71 43.71	43.72	43.75 43.75	43.78	43.77 43.77	43.77	43.77 43.77	
OFFSET	-8.00 -7.95	-6.45	-3.80 -3.20	0.00	3.20 3.80	6.45	7.95 9.00	

CH 36.00



DATUM42.0								
DESIGN SURFACE	43.33 43.33	43.30	43.16 43.05	43.16	43.05 43.16	43.30	43.33 43.33	
EXISTING SURFACE	43.62 43.62	43.62	43.64 43.64	43.66	43.68 43.68	43.70	43.71 43.71	
OFFSET	-8.00 -7.95	-6.45	-3.80 -3.20	0.00	3.20 3.80	6.45	7.95 9.00	

TPCH 11.80

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.	PS841640V/S16
PERMIT REF. NO.	WYP10107_17.02

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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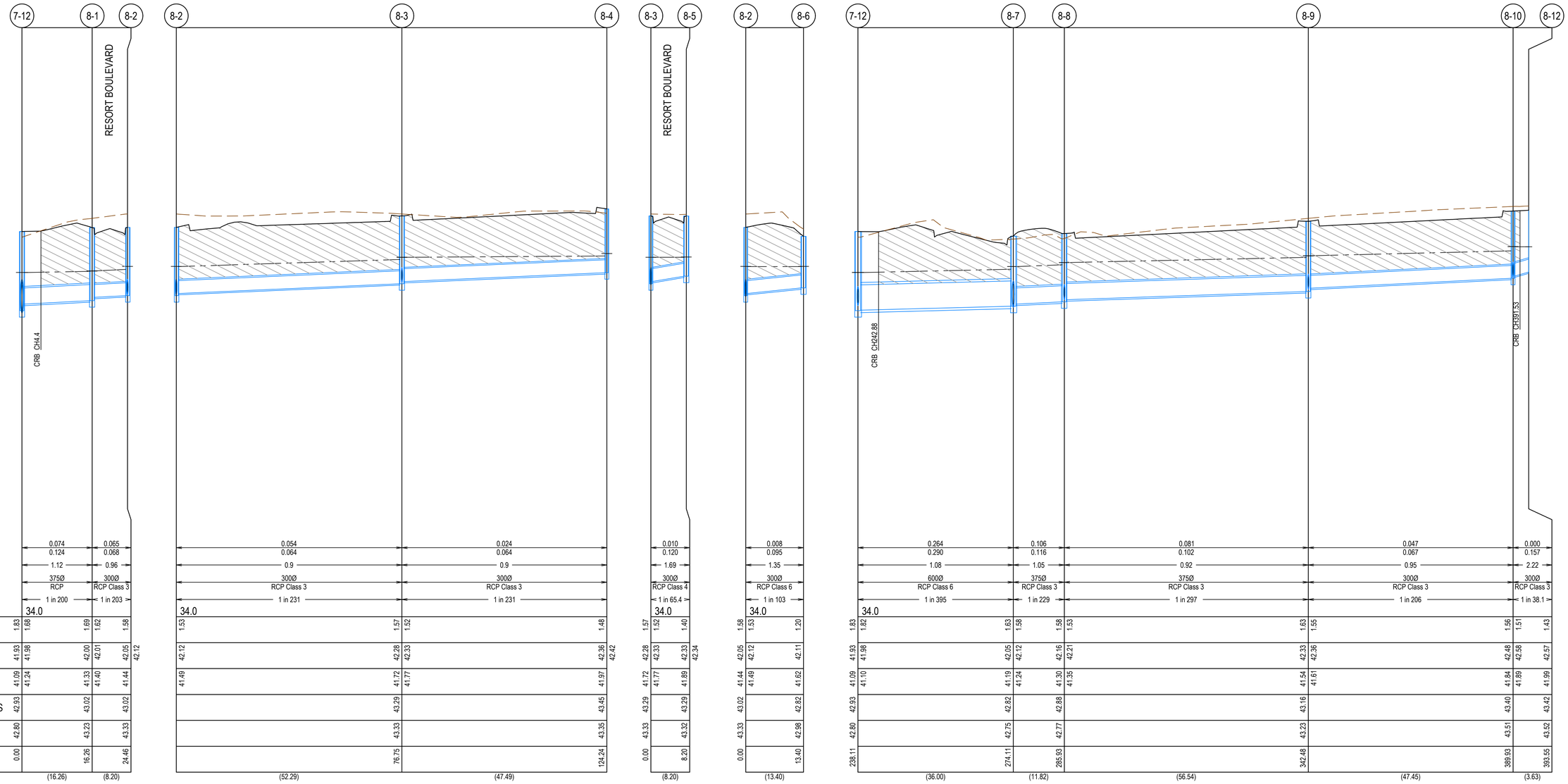
Melbourne, VIC 3008
Ph 03 9514 1500

ALAMORA Tarneit

Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Cross Sections: Tuscany Avenue Ch 11.80 - Ch 64.00
Pavna Lane Ch 28.35 - Ch 82.35

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-255	12 of 20	2

CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



AS CONSTRUCTED PLANS

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Quality Management - ISO 9001 Global-Mark.com.au® OHS Management - AS/NZS 4801 Global-Mark.com.au® Environmental Management - ISO14001 Global-Mark.com.au®

PLAN OF SUB. NO. PS841640V/S16
PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

SMEC
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Melbourne, VIC 3008
Ph 03 9514 1500

ALAMORA Tarneit

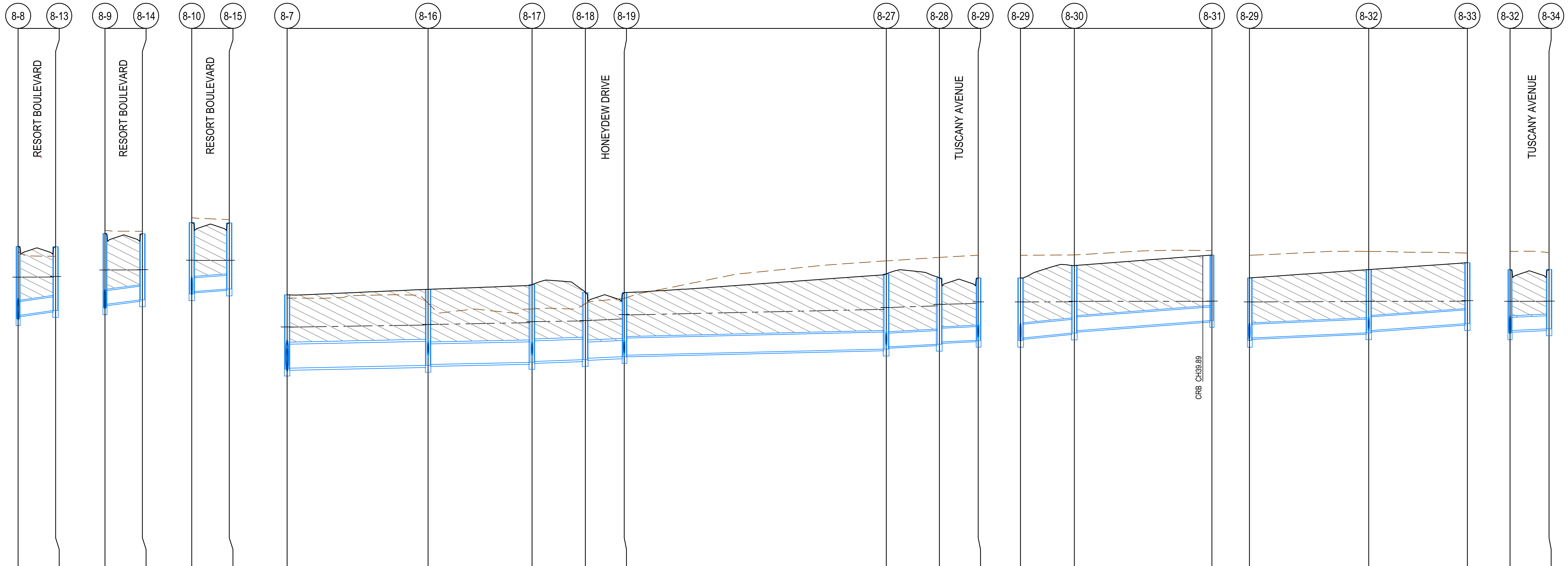
Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-301	13 of 20	3

DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-301.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:58:06 AM

CRUSHED ROCK BACKFILL

CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



Reach	DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	NOMINAL PIPE SIZE (mm)	PIPE TYPE	GRADE	DATUM	(Reach Length)
8-8 – 8-13	0.018	0.110	1.56	300Ø	RCP Class 4	1 in 77.3	34.0	(8.20)
8-9 – 8-14	0.010	0.106	1.5	300Ø	RCP Class 4	1 in 83.4	34.0	(8.20)
8-10 – 8-15	0.006	0.079	1.12	300Ø	RCP Class 4	1 in 149	34.0	(8.20)
8-7 – 8-16	0.167	0.192	0.89	525Ø	RCP Class 3	1 in 500	35.0	(30.84)
8-16 – 8-17	0.117	0.128	0.8	450Ø	RCP	1 in 500		(22.75)
8-17 – 8-18	0.106	0.165	1.04	450Ø	RCP Class 3	1 in 300		(11.66)
8-18 – 8-19	0.100	0.101	1.02	375Ø	RCP Class 6	1 in 227		(8.50)
8-19 – 8-27	0.081	0.085	0.77	375Ø	RCP Class 3	1 in 430		(57.34)
8-27 – 8-28	0.054	0.068	0.96	300Ø	RCP	1 in 203		(11.63)
8-28 – 8-29	0.046	0.064	0.9	300Ø	RCP Class 4	1 in 231		(8.50)
8-29 – 8-30	0.018	0.093	1.31	300Ø	RCP Class 6	1 in 108	35.0	(11.79)
8-30 – 8-31	0.006	0.083	1.18	300Ø	RCP Class 3	1 in 136		(30.10)
8-29 – 8-32	0.021	0.064	0.9	300Ø	RCP Class 6	1 in 231	35.0	(26.10)
8-32 – 8-33	0.013	0.081	1.14	300Ø	RCP Class 6	1 in 144		(21.58)
8-32 – 8-34	0.008	0.057	0.88	300Ø	RCP Class 6	1 in 231	35.0	(8.55)

Pit	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE
8-8	1.58 / 1.51	42.16 / 42.21	41.30 / 41.37	42.88	42.77	0.00
8-13	1.40	42.21 / 42.22	41.48	42.87	42.66	8.20
8-9	1.63 / 1.55	42.33 / 42.36	41.54 / 41.61	43.16	43.23	0.00
8-14	1.45	42.37	41.71	43.16	43.21	8.20
8-10	1.56 / 1.51	42.48 / 42.58	41.84 / 41.89	43.40	43.51	0.00
8-15	1.45	42.57	41.95	43.39	43.47	8.20
8-7	1.63 / 1.61	42.05 / 42.12	41.19 / 41.21	42.82	42.75	0.00
8-16	1.66 / 1.64	42.16 / 42.17	41.28 / 41.30	42.94	42.64	30.84
8-17	1.70 / 1.68	42.21 / 42.23	41.34 / 41.36	43.04	42.51	53.59
8-18	1.47 / 1.44	42.25 / 42.26	41.40 / 41.43	42.87	42.63	65.26
8-19	1.40 / 1.37	42.29 / 42.39 / 42.38	41.47 / 41.50	42.87	42.74	73.76
8-27	1.65 / 1.60	42.50 / 42.54	41.63 / 41.68	43.28	43.56	131.10
8-28	1.45 / 1.40	42.58 / 42.61	41.74 / 41.79	43.19	43.64	142.72
8-29	1.36	42.63 / 42.67	41.83	43.19	43.69	151.22
8-29	1.36 / 1.31	42.63 / 42.67	41.83 / 41.88	43.19	43.69	0.00
8-30	1.48 / 1.43	42.67 / 42.68	41.98 / 42.03	43.46	43.69	11.79
8-31	1.43	42.68	42.26	43.69	43.79	41.89
8-29	1.36 / 1.31	42.63 / 42.67	41.83 / 41.88	43.19	43.69	151.22
8-32	1.38 / 1.33	42.68	41.99 / 42.04	43.37	43.77	177.33
8-33	1.33	42.68 / 42.69	42.19	43.52	43.73	198.91
8-32	1.38 / 1.33	42.68	41.99 / 42.04	43.37	43.77	0.00
8-34	1.30	42.68	42.08	43.37	43.75	8.55

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

PLAN OF SUB. NO.: PS841640V/S16
PERMIT REF. NO.: WYP10107_17.02

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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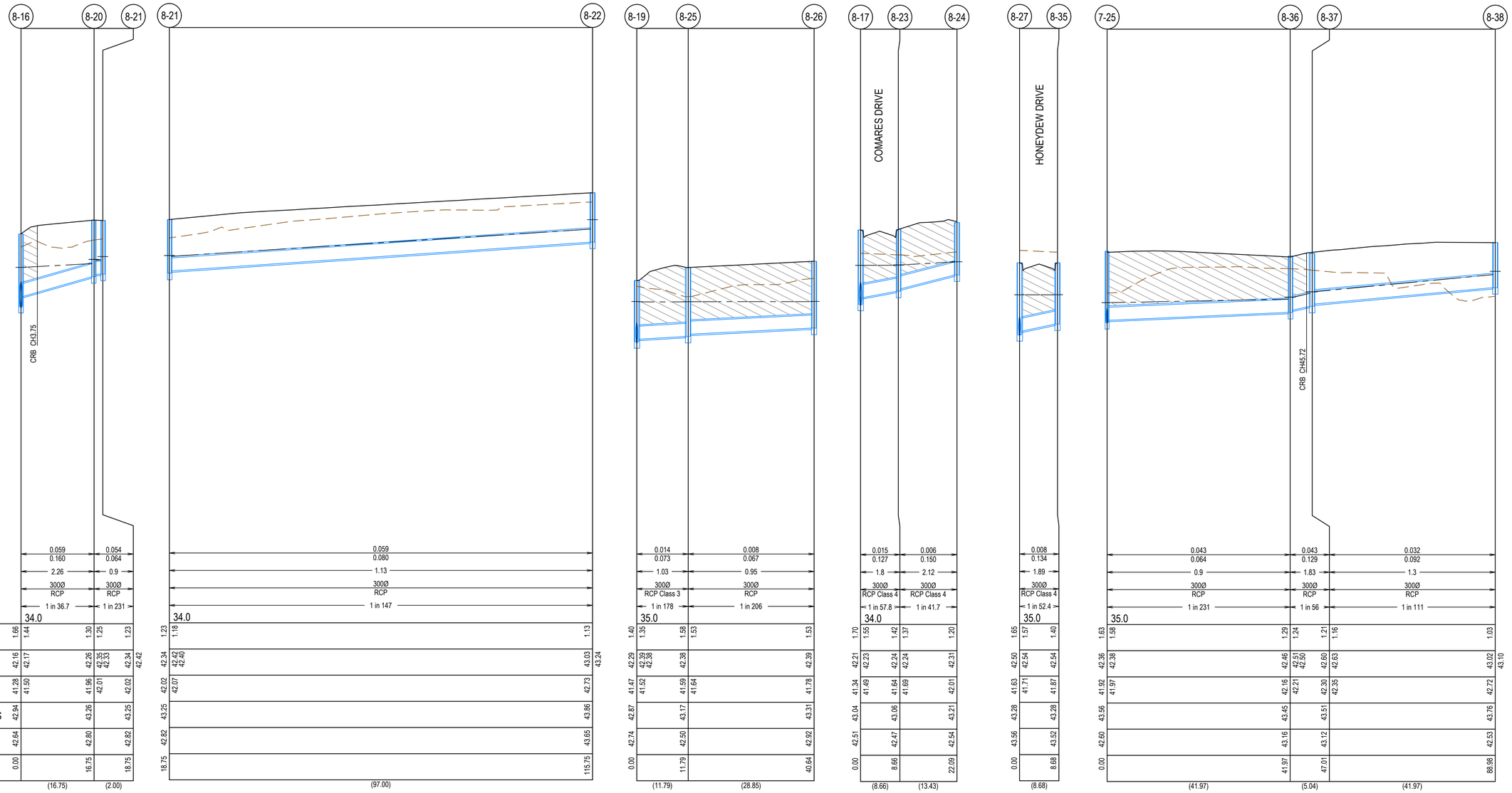
ALAMORA Tarneit

Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-302	14 of 20	3

DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-302.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:58:23 AM

CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS841640V/S16
PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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ALAMORA Tarneit

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Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 3

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-303	15 of 20	2

DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-303.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:58:38 AM

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)				
8-01	SIDE ENTRY PIT	600	900	300	41.4	375	41.325	43.019	1.694	EDCM 601	
8-02	SIDE ENTRY PIT	600	900	300	41.49	300	41.44	43.022	1.581	EDCM 601	
				300	41.49						
8-03	SIDE ENTRY PIT	600	900	300	41.767	300	41.717	43.288	1.571	EDCM 601	
				300	41.767						
8-04	JUNCTION PIT	600	900			300	41.972	43.451	1.478	EDCM 605	
8-05	SIDE ENTRY PIT	600	900			300	41.892	43.287	1.395	EDCM 601	
8-06	DOUBLE SIDE ENTRY PIT	600	900			300	41.621	42.816	1.195	EDCM 602	
8-07	DOUBLE SIDE ENTRY PIT	900	1200	375	41.245	600	41.195	42.82	1.625	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
				525	41.215						
8-08	DOUBLE SIDE ENTRY PIT	600	900	375	41.35	375	41.3	42.881	1.581	EDCM 602	
				300	41.375						
8-09	SIDE ENTRY PIT	600	900	300	41.612	375	41.537	43.164	1.627	EDCM 601	
				300	41.612						
8-10	SIDE ENTRY PIT	600	900	300	41.895	300	41.845	43.401	1.556	EDCM 601	
				300	41.895						
8-12	ENDPIPE					300	41.987	43.419	1.432		CAP END PIPE WITH STEEL PLATE FOR FUTURE CONNECTION
08-13	DOUBLE SIDE ENTRY PIT	600	900			300	41.477	42.873	1.395	EDCM 602	
08-14	SIDE ENTRY PIT	600	900			300	41.71	43.156	1.445	EDCM 601	
08-15	SIDE ENTRY PIT	600	900			300	41.947	43.393	1.445	EDCM 601	
08-16	JUNCTION PIT	750	900	450	41.296	525	41.276	42.941	1.664	EDCM 605 & 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
				300	41.501						
08-17	SIDE ENTRY PIT	750	900	450	41.362	450	41.342	43.044	1.702	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
				300	41.492						
08-18	DOUBLE SIDE ENTRY PIT	600	900	355	41.431	450	41.401	42.872	1.472	EDCM 602	
08-19	DOUBLE SIDE ENTRY PIT	600	900	375	41.498	355	41.468	42.87	1.402	EDCM 602	
				300	41.523						
08-20	JUNCTION PIT	600	900	300	42.008	300	41.958	43.256	1.298	EDCM 605	
08-21	JUNCTION PIT	600	900	300	42.067	300	42.017	43.246	1.23	EDCM 605	
08-22	JUNCTION PIT	600	900			300	42.728	43.861	1.134	EDCM 605	
08-23	SIDE ENTRY PIT	600	900	300	41.692	300	41.642	43.058	1.416	EDCM 601	
08-24	GRATED PIT	600	900			300	42.013	43.215	1.201	EDCM 605	
08-25	SIDE ENTRY PIT	600	900	300	41.64	300	41.59	43.168	1.579	EDCM 601	
08-26	JUNCTION PIT	600	900			300	41.779	43.312	1.533	EDCM 605	
08-27	SIDE ENTRY PIT	600	900	300	41.682	375	41.632	43.278	1.646	EDCM 601	
				300	41.707						
08-28	DOUBLE SIDE ENTRY PIT	600	900	300	41.789	300	41.739	43.19	1.451	EDCM 602	
08-29	DOUBLE SIDE ENTRY PIT	600	900	300	41.876	300	41.826	43.19	1.365	EDCM 602	
				300	41.876						
08-30	SIDE ENTRY PIT	600	900	300	42.034	300	41.984	43.462	1.478	EDCM 601	
08-31	SIDE ENTRY PIT	600	900			300	42.256	43.691	1.434	EDCM 601	
08-32	JUNCTION PIT	600	900	300	42.039	300	41.989	43.372	1.384	EDCM 605	
				300	42.039						
08-33	JUNCTION PIT	600	900			300	42.189	43.523	1.334	EDCM 605	
08-34	JUNCTION PIT	600	900			300	42.076	43.375	1.299	EDCM 605	
08-35	SIDE ENTRY PIT	600	900			300	41.872	43.275	1.403	EDCM 601	
08-36	JUNCTION PIT	600	900	300	42.206	300	42.156	43.449	1.292	EDCM 605	
08-37	JUNCTION PIT	600	900	300	42.346	300	42.296	43.508	1.212	EDCM 605	
08-38	JUNCTION PIT	600	900			300	42.724	43.756	1.031	EDCM 605	
7-12	JUNCTION PIT	900	1200	600	41.104	675	41.094	42.927	1.833	EDCM 605 & 607	PIT TO BE HAUNCHED TO 600x900 COVER TOWARDS PAVEMENT
				375	41.244						

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS841640V/S16

PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

SCALE AS SHOWN AT A1

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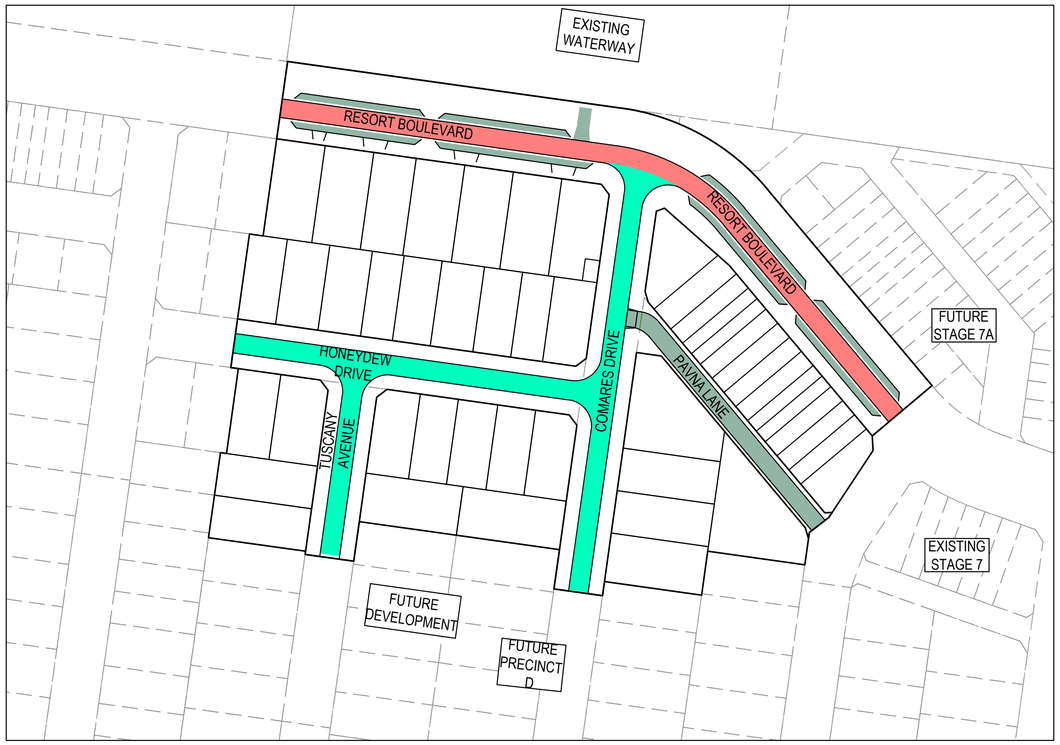
ALAMORA Tarneit

Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Drain Pit Schedule

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-351	16 of 20	2



PARKING BAY AND PAVNA LANE PAVEMENT COMPOSITION			
300mm DEPTH PAVEMENT COMPOSITION		LAYER THICKNESS (mm)	
PAVEMENT LAYER			MATERIAL
CONCRETE	UPPER LAYER	200	CONCRETE. SL82 MESH. 40mm TOP COVER
CRUSHED ROCK	BASE	100	CLASS 3 CRUSHED ROCK 20mm NOM. SIZE

ACCESS PLACE - HONEYDEW DRIVE, COMARES DRIVE AND TUSCANY AVENUE			
530mm DEEP PAVEMENT (INCLUDING 200mm DEEP CAPPING) AND 200mm SUBGRADE			
PAVEMENT LAYER		DEPTH (mm)	MATERIAL
ASPHALT	WEARING COURSE	30	SIZE 10 TYPE N ASPHALT CLASS 320 BINDER
	INTERMEDIATE COURSE	30	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 < $1x10^{-9}$m/s AND SWELL < 1.5% MATERIAL. COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1
SUBGRADE/CONSTRUCTION LAYER		200	RIPPED ROCK OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY k < $1x10^{-9}$m/s AND SWELL < 1.5% MATERIAL. COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1

CONNECTOR ROAD - HERMOSA DRIVE AND RESORT BOULEVARD PAVEMENT COMPOSITION			
550mm DEPTH PAVEMENT COMPOSITION		LAYER THICKNESS (mm)	
PAVEMENT LAYER			MATERIAL
ASPHALT	WEARING COURSE	40	SIZE 14 TYPE N CLASS 320 ASPHALT
	INTERMEDIATE COURSE	75	SIZE 20 TYPE SI ASPHALT CLASS 320 ASPHALT
	BASE COURSE	75	SIZE 20 TYPE SI ASPHALT CLASS 320 ASPHALT
	SAMI SEAL	-	-
	BITUMINOUS PRIME	-	-
SUBBASE COURSE	UPPER	100	SIZE 20 CLASS 3 CEMENT TREATED CRUSHED ROCK (CTCR) 3% CEMENT. COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289, 5.2.1
	LOWER	110	SIZE 20 CLASS 3 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY OF 96% (MODIFIED) AS1289, 5.2.1
CAPPING	CAPPING LAYER	150	RIPPED ROCK OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY k < $1x10^{-9}$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 < $1x10^{-9}$m/s AND SWELL < 1.5% MATERIAL. COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1

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

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AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS841640V/S16

PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

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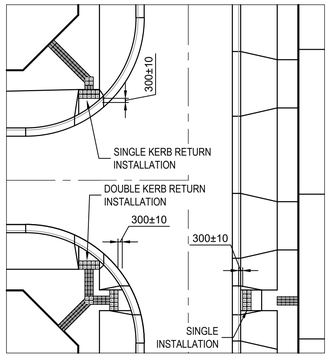
Ph 03 9514 1500

ALAMORA Tarneit

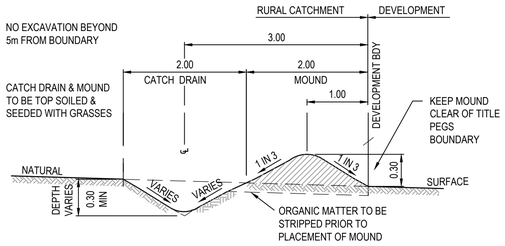
Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Pavement Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-411	17 of 20	3

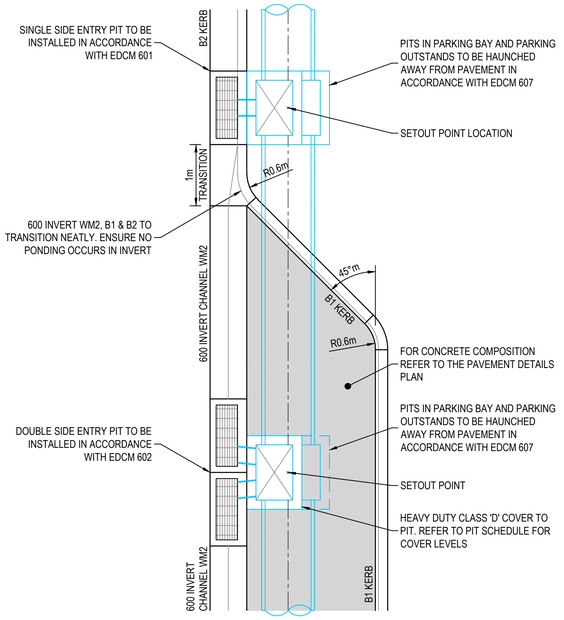
DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-411.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:59:16 AM



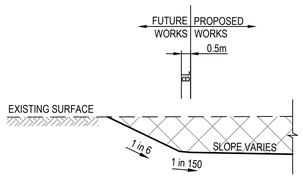
TYPICAL TGSI LAYOUT
N.T.S
REFER TO NOTE 34



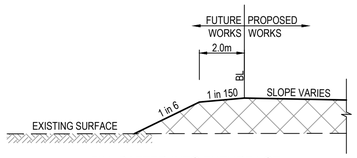
TYPICAL SECTION THROUGH CATCH DRAIN
NOT TO SCALE



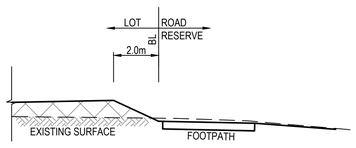
TYPICAL PARKING BAY & DRAINAGE PIT LAYOUT
SCALE 1:50



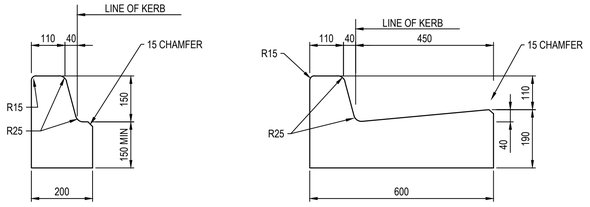
CUT BATTER INTO FUTURE LOT
NOT TO SCALE



FILL BATTER INTO FUTURE LOT
NOT TO SCALE

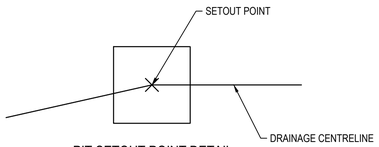


TYPICAL RIDGE BATTER DETAIL
NOT TO SCALE

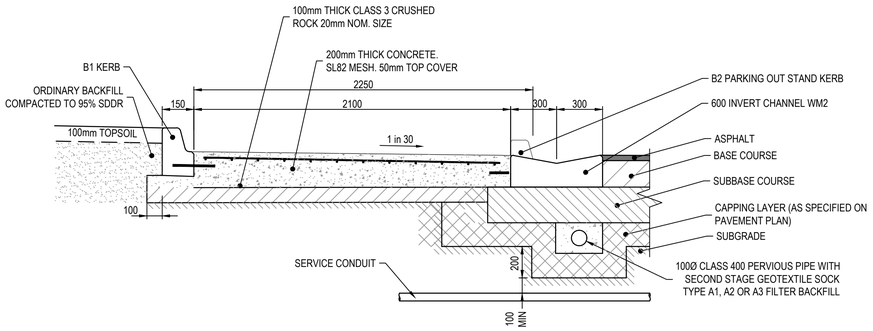


B1 KERB DETAIL
SCALE 1:10
EDCM

600 B2 KERB DETAIL
SCALE 1:10
EDCM

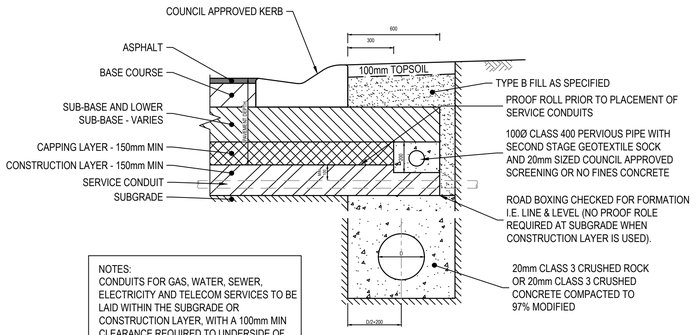


PIT SETOUT POINT DETAIL
NOT TO SCALE



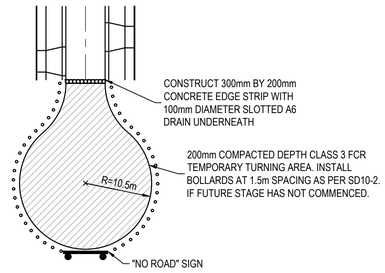
SECTION THROUGH PARKING
NOT TO SCALE

NOTES:
CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN



NOTES:
CONDUITS FOR GAS, WATER, SEWER, ELECTRICITY AND TELECOM SERVICES TO BE LAID WITHIN THE SUBGRADE OR CONSTRUCTION LAYER, WITH A 100mm MIN CLEARANCE REQUIRED TO UNDERSIDE OF CAPPING LAYER. CONDUITS SHALL NOT BE PLACED WITHIN THE PAVEMENT NOR THE CAPPING LAYER.

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



TEMPORARY TURN AREA DETAIL
NOT TO SCALE

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PLAN OF SUB. NO.	PS841640V/S16
PERMIT REF. NO.	WYP10107_17.02

AS CONSTRUCTED

SCALE AS SHOWN AT A1

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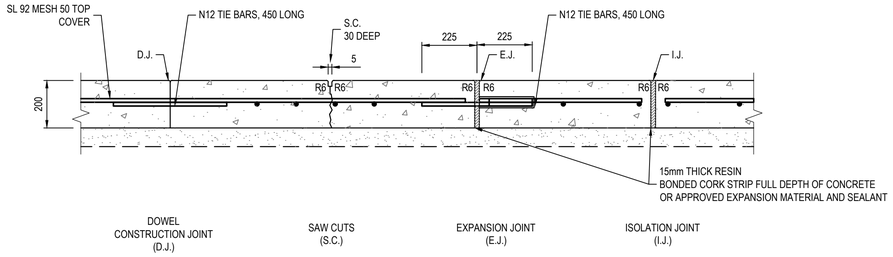
ALAMORA Tarneit

Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
General Details - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-421	18 of 20	2

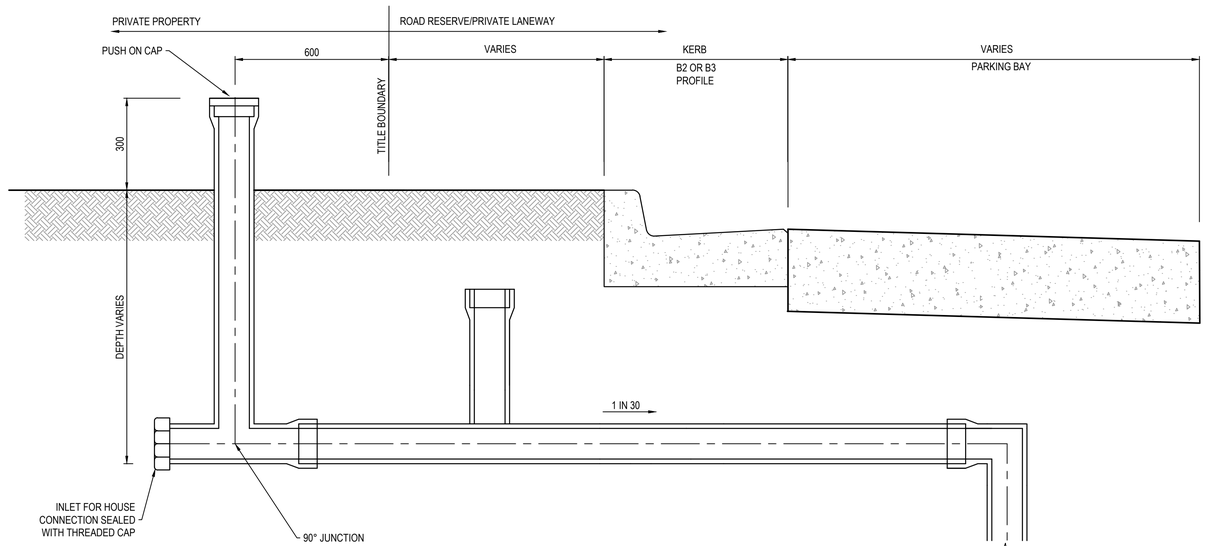


CONCRETE JOINTING DETAILS

NOT TO SCALE
REFER TO EDCM 401

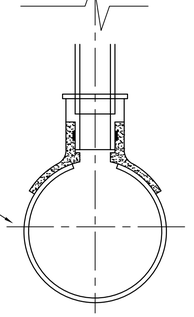
JOINT DETAIL NOTES:

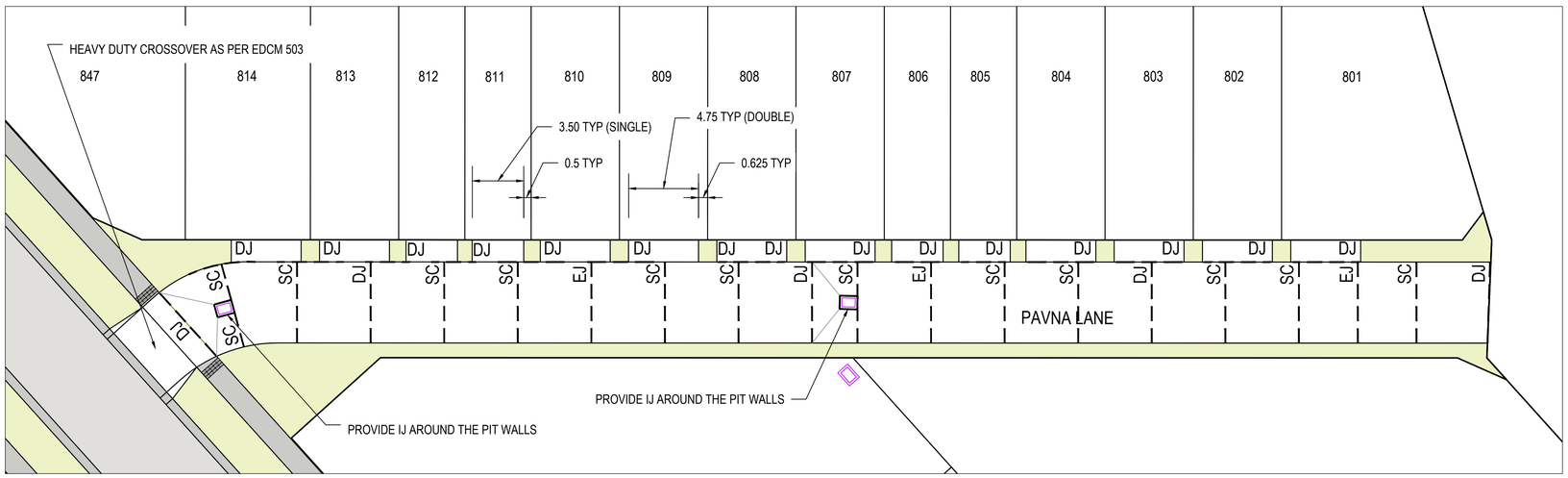
1. SAW JOINTS ARE TO BE PLACED AT A MAXIMUM 5m SPACING AT INTERSECTIONS AND CONSTRUCTED 18-24 HOURS AFTER POURING.
2. DOWEL CONSTRUCTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 15m.
3. EXPANSION JOINTS ARE TO BE PLACED AT MAXIMUM SPACING OF 30m.
4. ISOLATION JOINTS ARE TO BE PLACED AROUND PITS.
5. ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH "CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA - CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS 1997".
6. CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICKED UNTIL AT LEAST SEVEN DAYS AFTER POURING.
7. CONCRETE SURFACE TO BE LIGHT BROOM FINISH AND NEATLY BROOMED AFTER BROOM IS APPLIED.



TYPICAL DETAIL FOR CONNECTIONS UNDER CONCRETE PARKING BAYS

NOT TO SCALE





LANEWAY DETAIL PLAN

1:200

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS841640V/S16

PERMIT REF. NO. WYP10107_17.02

AS CONSTRUCTED

SCALE AS SHOWN AT A1

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ALAMORA Tarneit

Alamora - Stage 8, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
General Details - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-422	19 of 20	2

DWG PATH: V:_Vault\Projects_Urban\2070E-Newgate\2070E-A08\Dwgs\2070E-A08-422.dwg PRINTED BY: SK17795 on 17/05/2024 at 10:59:51 AM

										Score remaining residual risk		
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
			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 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	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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Alamora - Stage 8, Sayers Road, Tarneit
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Road and Drainage
Safety In Design

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D6	2070E-A08-500	20 of 20	2

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