ALAMORA

STAGE 15

WYNDHAM CITY COUNCIL

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 40
Permit No WYP10817/18
Date 19/02/2025

NOTES:

GENERAL:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS, CURRENT COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS AND VPA EDCM GUIDELINES TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT & A.S.2124-1992 GENERAL CONDITIONS OF CONTRACT.
2. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED IN PARTICULAR THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORK COVER AUTHORITY - HEALTH AND SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH AND SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
3. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCING CONSTRUCTION.
4. THE CONTRACTOR SHALL CO-OPERATE WITH OTHER CONTRACTORS AND/OR AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE ENGINEER THE EXACT LOCATION OF ALL PROPOSED SERVICES PRIOR TO THE INSTALLATION OF CONDUITS. ALL WORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
5. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND SERVICES PRIOR TO COMMENCING EXCAVATIONS AND THE VARIOUS AUTHORITIES ARE TO BE NOTIFIED. SHOULD ANY EXISTING SERVICES BE DAMAGED DURING CONSTRUCTION WORKS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR REPAIRS. ALL COSTS FOR THIS SHALL BE BORNE BY THE CONTRACTOR.
6. PRIOR TO COMMENCING WORK ON TRENCHES IN EXCESS OF 1.50m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE SENT TO THE SECRETARY OF MINERALS AND ENERGY IN ACCORDANCE WITH CLAUSE 202 OF THE MINES (TRENCHES) REGULATIONS 1982. A FOREMAN QUALIFIED AS A MINES MANAGER MUST BE IN ATTENDANCE AT ALL TIMES DURING SUCH EXCAVATION WORKS.
7. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP THE WORKS IN A SAFE AND STABLE CONDITION TO PROTECT THE PUBLIC FROM THE WORKS.
8. UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP & GRADED OVER AND ALL RUBBISH IS TO BE REMOVED. THE SITE IS TO BE LEFT CLEAN & TIDY AND TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
9. UPON COMPLETION OF THE CIVIL WORKS, THE CONTRACTOR SHALL PROVIDE "AS CONSTRUCTED" PLANS IN A D-SPEC AND R-SPEC DIGITAL FORMAT TO COUNCIL'S REQUIREMENTS AND TO THE SATISFACTION OF ALL PARTIES.
10. THE INFRASTRUCTURE MANAGER OR HIS REPRESENTATIVE SHALL BE GIVE ACCESS TO THE SITE AT ALL TIMES. ALL CONSTRUCTION WORKS SHALL BE COMPLETED TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
11. BLASTING REQUIRES BLASTING PERMIT FROM COUNCIL.
12. ANY EXISTING PAVEMENT OR DRAINAGE DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD IS TO BE REINSTATED BY THE CONTRACTOR TO THE SATISFACTION OF THE SUPERINTENDENT.

SURVEY & SETOUT:

1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
2. PERMANENT SURVEY MARK SKETCH PLANS ARE TO BE PREPARED ESTABLISHING A.H.D. LEVELS AND A.M.G. CO-ORDINATES FOR REGISTRATION WITH THE C.P.O. BY A LICENSED SURVEYOR.
3. ALL TBM'S AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE CONSULTANT TO ARRANGE REINSTATEMENT AT THE CONTRACTORS EXPENSE.

EARTHWORKS:

4. EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH A.S.3798-2007 (GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS). FILLING TO BE CARRIED OUT USING APPROVED CLAY FILL COMPACTED TO 95% AASHO. DAMS AND OPEN CHANNELS TO BE EXCAVATED TO A FIRM BASE TO THE SATISFACTION OF A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF FILLING. ALL FILLING MUST COMPLY WITH A.S. 3798-2007 LEVEL 1 AND BE COMPACTED IN 150mm LAYERS. CONTRACTOR TO TAKE LEVELS IN EXISTING DAMS AND CHANNELS PRIOR TO FILLING & LEVELS RECORDED TO BE SUPPLIED TO THE ENGINEER FOR AS CONSTRUCTED PLAN.
5. FILLING TO BE CARRIED OUT USING APPROVED MATERIAL. TOPSOIL AND ALL VEGETABLE MATERIAL TO BE STRIPPED FROM FILL SITE PRIOR TO ANY PLACEMENT OF MATERIAL. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
6. FILL AREAS TO BE STRIPPED OF TOPSOIL, THEN REPLACED TO OBTAIN FINAL LEVELS AS SHOWN ON THE DRAWINGS. ALL FILLING TO BE COMPACTED AS SPECIFIED.
7. NO TOP SOIL TO BE REMOVED FROM THE SITE WITHOUT THE APPROVAL OF COUNCIL.
8. THE NATURE STRIPS IN CUT OR FILLED AREAS ARE TO BE TOPSOILED WITH 100mm OF APPROVED TOPSOIL MATERIAL. IF THE SOIL ON THE SITE, IS NOT SUITABLE, IT SHALL BE IMPORTED AT THE CONTRACTORS EXPENSE. THE APPROVED TOPSOIL MATERIAL IS TO BE TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
9. ALL ALLOTMENTS TO BE GRADED AT A MINIMUM OF 1 IN 150 TO THE LOW CORNER.
10. UNLESS OTHERWISE SHOWN BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 in 6. ALL BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, HAY, STRAW AND BITUMINOUS EMULSION, ALL TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
11. FOR THE TERM OF THE CONTRACT PERIOD THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTION TO PREVENT THE EMISSION OF DUST, WHETHER FROM THE OPERATION OF CONSTRUCTION EQUIPMENT OR EXPOSURE OF SOIL TO WINDS.
12. APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING CONSTRUCTION AND MAINTENANCE PERIOD.
13. ON COMMENCEMENT OF CONSTRUCTION WORKS THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE EPA PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO. 275).
14. COMPACTION RESULTS OF EASEMENTS TO BE PROVIDED TO COUNCILS CONSTRUCTION ENGINEER.

ROADS:

1. ALL DIMENSIONS AND RADII ARE GIVEN TO LIP OF KERBS. CHAINAGES ARE WITH RESPECT TO CENTRE LINE OF ROAD RESERVE. UNLESS OTHERWISE SHOWN.
2. ALL PAVEMENT MATERIALS ARE TO BE VICROADS APPROVED MATERIALS.
3. PAVEMENT SUB-BASE AND BEDDING TO KERB & CHANNEL IS TO EXTEND 600mm BEHIND BACK OF KERB.
4. ALL SERVICES ARE TO BE CONSTRUCTED PRIOR TO PLACEMENT OF CAPPING LAYER UNDER ROADS.
5. ALL DRIVEWAYS ARE TO BE 3.5m WIDE AND OFFSET 0.75m FROM THE SIDE BOUNDARY OR EASEMENT, UNLESS OTHERWISE SHOWN - REFER EDCM 501 & 502. DRIVEWAY LAYBACK AND WINGS TO BE CONSTRUCTED AS A SINGLE SEGMENT OF CONCRETE.
6. ACCESS RAMPS (DRIVEWAYS INTO LOTS) SHOULD HAVE A MAXIMUM GRADE OF 1 IN 10.
7. CONCRETE SHALL BE 25 MPa FOR BOTH KERB AND CHANNEL AND FOOTPATH, HAVING A MINIMUM CEMENT CONTENT OF 280Kg PER CUBIC METRE.
8. FOOTPATHS AND VEHICLE CROSSINGS TO BE DOWELLED AT THE END OF EACH DAY'S POUR OF CONCRETE.
9. SIGNS, LINEMARKING AND DELINEATORS ARE TO BE INSTALLED AS APPLICABLE ON ROADS IN ACCORDANCE WITH A.S.1742.2.
10. STREET SIGNS ARE TO BE PROVIDED TO THE WYNDHAM CITY COUNCIL STANDARD, INCLUDING THE PROVISION OF LOGOS.
11. INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER ON ALL ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE THE LOCATION OF ALL FIREPLUGS.

DRAINAGE:

1. DRAINAGE PIPES SHALL BE RUBBER RING JOINTS REINFORCED CONCRETE CLASS 2, UNLESS OTHERWISE SHOWN.
2. ALL PVC STORM WATER DRAINAGE PIPES TO BE SEWER QUALITY PVC.
3. NO PVC STORM WATER DRAINAGE PIPES TO BE LAID UNDER ROADS.
4. DRAINAGE PIPES AND PITS ARE SETOUT FROM OFFSETS, RATHER THAN FROM CENTRELINE PIPE CHAINAGES. CURVILINEAR DRAINAGE PIPES MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURES GUIDELINES.
5. DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-2007, LOADS ON BURIED PIPES.
6. PROPERTY INLET PITS ARE TO BE LOCATED 1.00m FROM LOW SIDE BOUNDARY, UNLESS OTHERWISE SHOWN. INVERTS OF PROPERTY INLETS ARE TO BE A MINIMUM OF 400mm BELOW FINISHED SURFACE.
7. HOUSE DRAINS ARE TO BE CONNECTED DIRECTLY INTO UNDERGROUND DRAINAGE PIPES OR PITS AND OFFSET FROM SIDE BOUNDARY 5.50m WHERE POSSIBLE AS PER EDCM 701. THE LOCATION OF THE HOUSE DRAIN TO BE MARKED AS PER EDCM 303. HOUSE DRAIN LEVEL TO BE A MINIMUM 0.4m BELOW THE LOWEST CORNER OF THE LOT.
8. ALL DRAINAGE PIPES UNDER ROAD PAVEMENT, DRIVEWAY, FOOTPATH & KERB AND CHANNEL SHALL BE BACKFILLED WITH CLASS 3 F.C.R.
9. PRIOR TO THE ISSUE OF STATEMENT OF COMPLIANCE, ALL DRAINS ARE TO BE CCTV TESTED AND THE RESULTS PROVIDED TO COUNCIL.
10. SUBSURFACE DRAINS ARE TO BE LAID BEHIND ALL KERB AND CHANNEL AS PER EDCM 202.
11. WHEN ROADS ARE TRUNCATED AGAINST RISING LAND PENDING DEVELOPMENT OF FUTURE STAGES, TEMPORARY A.G. DRAINS SHALL BE INSTALLED ACROSS THE END OF THE ROAD TO PREVENT SEEPAGE INTO PAVEMENT.

UTILITIES:

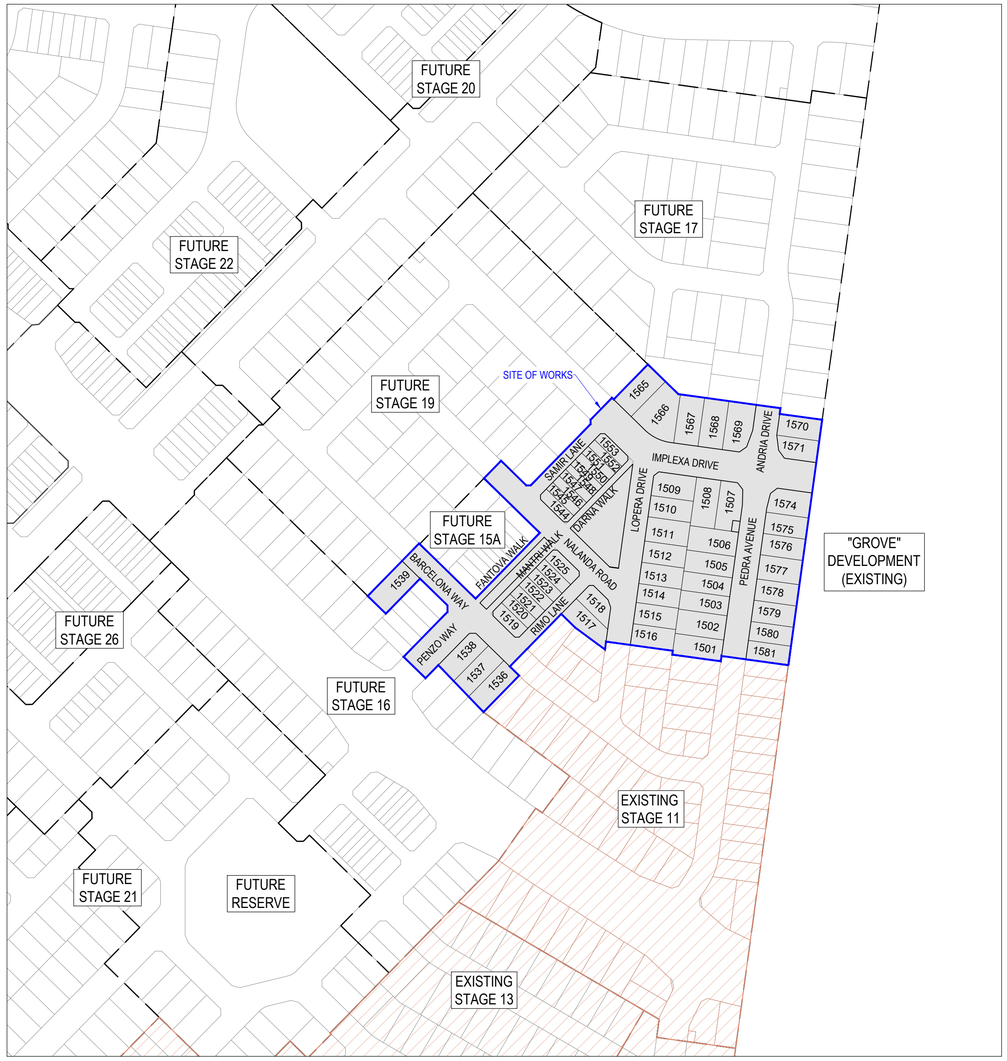
12. SERVICE CONDUITS ARE TO BE INSTALLED AT THE LOCATIONS SHOWN ON THIS DRAWING. LOCATION OF ALL UNDERGROUND SERVICE CONDUITS TO BE MARKED ON KERB & CHANNEL AS PER EDCM 303. SERVICE CONDUITS THAT ARE SUBJECT TO AMENDMENT SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT.
13. ALL CONDUIT TRENCHES UNDER ROAD PAVEMENT, DRIVEWAY, FOOTPATH & KERB AND CHANNEL SHALL BE BACKFILLED WITH CLASS 2 F.C.R.
14. NBN TO BE NOTIFIED AT LEAST SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
15. NBN PITS ARE TO BE CLEAR OF PATHS - WITH THE EXCEPTION OF NEMI PARADE (WEST SIDE).
16. LOCATION OF ELECTRICITY AND VUF CONDUITS WILL BE PROVIDED ON SEPARATE DRAWINGS.
17. CONCRETE IS TO BE PLACED AROUND ELECTRICAL DISTRIBUTION PITS TO A MINIMUM DEPTH OF 125mm. DISTRIBUTION PITS WITHIN FOOTPATHS ARE TO A MINIMUM OF 300mm WITHIN THE EDGE OF PATH.

VEGETATION:

1. ALL EXISTING TREES ARE TO BE PROTECTED DURING CONSTRUCTION.
2. ANY TREE REMOVAL MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN OR AS DIRECTED ONSITE BY THE LANDSCAPE APPROVALS OFFICER.TREES SHOWN ON THE PLANS ARE TO BE RETAINED AND PROTECTED FROM DAMAGE DURING CONSTRUCTION.
3. ALL ROOTS AND DECOMPOSABLE MATERIAL UNDER ROAD PAVEMENTS SHALL BE REMOVED TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
4. NO SURPLUS TREES OR VEGETATION ARE TO BE BURNT ON SITE.

STRUCTURAL:

1. A BUILDING PERMIT MUST BE OBTAINED FOR ANY STRUCTURE/RETAINING WALL EXCEEDING 1.0m IN HEIGHT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA. COPY OF BUILDING PERMITS AND 'CERTIFICATE F COMPLIANCE-CONSTRUCTION' TO BE SUBMITTED TO COUNCIL PRIOR TO 'STATEMENT OF COMPLIANCE'.
2. ALL STRUCTURAL WORK MUST BE SUPERVISED BY A QUALIFIED STRUCTURAL ENGINEER.



LOCALITY PLAN

MELWAYS REF: 234 E7

Drawing Index

Drawing No.	Drawing Title	Revision
R100	COVER SHEET	2
R200	LAYOUT PLAN	1
R201	SERVICES PLAN	1
R202	EARTHWORKS PLAN	0
R203	TYPICAL CROSS SECTIONS	0
R300	INTERSECTION DETAILS - 1	1
R301	INTERSECTION DETAILS - 2	1
R302	INTERSECTION DETAILS - 3	1
R303	INTERSECTION DETAILS - 4	2
R400	ROAD LONGITUDINAL SECTIONS - 1	0
R401	ROAD LONGITUDINAL SECTIONS - 2	0
R402	ROAD LONGITUDINAL SECTIONS - 3	0
R500	ROAD CROSS SECTIONS - 1	0
R501	ROAD CROSS SECTIONS - 2	0
R502	ROAD CROSS SECTIONS - 3	0
R503	ROAD CROSS SECTIONS - 4	0
R504	ROAD CROSS SECTIONS - 5	0
R505	ROAD CROSS SECTIONS - 6	0
R506	ROAD CROSS SECTIONS - 7	0
R507	ROAD CROSS SECTIONS - 8	0
R600	DRAINAGE LONG SECTIONS - 1	0
R601	DRAINAGE LONG SECTIONS - 2	0
R602	DRAINAGE LONG SECTIONS - 3	0
R603	DRAINAGE LONG SECTIONS - 4	0
R604	DRAINAGE LONG SECTIONS - 5	0
R605	PIT SCHEDULE	0
R700	PAVEMENT PLAN	1
R701	TYPICAL DETAILS	1
R702	PIT DETAILS	0
R800	SIGNAGE & LINEMARKING PLAN	1
R900	CONCRETE JOINTING PLAN - 1	0
R901	CONCRETE JOINTING PLAN - 2	0

2

2

2

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & 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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NOTE:
THE SITE OF WORKS IS SUBJECT TO THE PROVISIONS OF CULTURAL HERITAGE MANAGEMENT PLAN No.15676.
ALL WORKS AND PERSONNEL MUST OBSERVE THE REQUIREMENTS OF THE MANAGEMENT PLAN AT ALL TIMES.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
2	29/01/25	UPDATED DRAWING INDEX - RAISED PAVEMENT	S.M	A.W	M.T
1	11/11/24	UPDATED DRAWING INDEX - ADDITIONAL LIP PROFILE ADDED	S.M	A.W	M.T
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
D	27/08/24	COUNCIL COMMENTS	A.W	A.W	M.T
C	18/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
B	30/05/24	AMENDED LOTS ORIENTATION - LOT1517/1518	S.M	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15**
COVER SHEET

STATUS: **ISSUED FOR CONSTRUCTION**

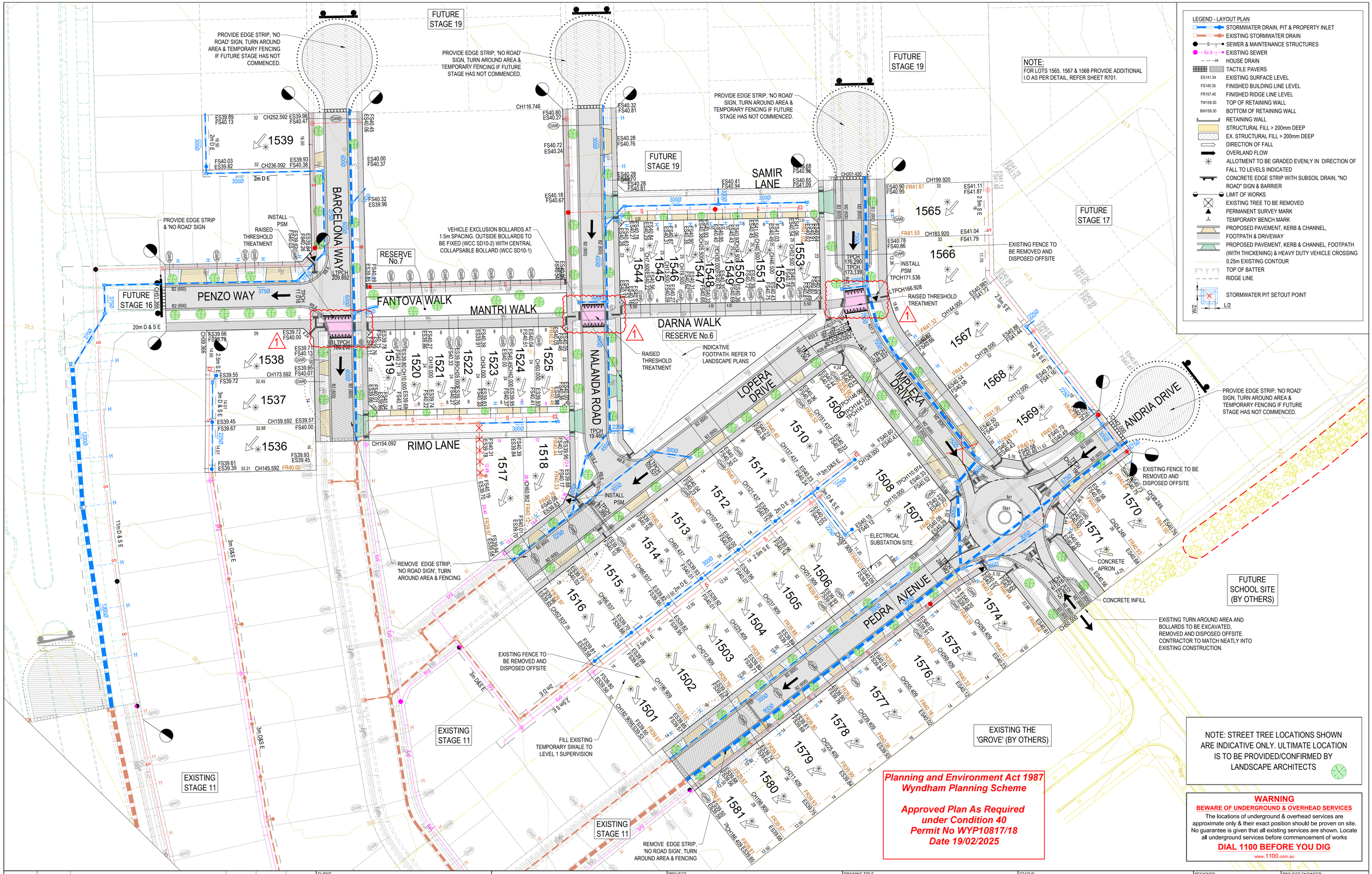
SCALE @ A1 : 1:2000
20 0 20 40 60 80 100

N

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R100	2

P:\200\200282 - ALAMORA, TARNEIT\200282.15\CIVIL2 DRAFTING\ACAD\ROADS & DRAINAGE\200282.15 - R100 - COVER SHEET.DWG



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	29/01/25	RAISED PAVEMENT/TGSI UPDATED	S.M	A.W	M.T
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
D	27/08/24	COUNCIL COMMENTS - GENERAL	A.W	A.W	M.T
C	18/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
B	30/05/24	AMENDED LOTS ORIENTATION - LOT1517/1518	S.M	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

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creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: ALAMORA - STAGE 15 LAYOUT PLAN

STATUS: ISSUED FOR CONSTRUCTION

SCALE @ A1 : 1:500 (0 5 10 20 30)

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T
PROJECT No.	DRAWING No.	REVISION
200282.15	R200	1

SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		RECYCLED WATER		POTABLE WATER		OPTIC FIBRE		ELECTRICITY		PUBLIC LIGHTING	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
IMPLEXA DRIVE	S	2.10	S	2.60	S	3.10	N	2.80	N	3.25	N	1.00*
PEDRA AVENUE	W	2.10	W	2.60	W	3.10	E	1.80	E	2.45	E	1.00*
ANDRIA DRIVE	W	2.10	W	2.60	W	3.10	E	1.80	E	2.45	E	1.00*
BARCELONA WAY	S	2.10	S	2.60	S	3.10	N	1.80	N	2.45	N	1.00*
NALANDA ROAD	N	2.10	N	2.60	N	3.10	S	1.80	S	2.45	S	1.00*
LOPERA DRIVE LOTS 1514-1516	W	2.10	W	2.60	W	3.10	E	1.80	E	2.40	E	1.00*
LOPERA DRIVE LOTS 1509-1513	W	0.60	W	1.10	W	1.60	E	1.80	E	2.40	E	1.00*
FANTOVA WALK	W	2.00	W	2.50	W	3.00	-	-	-	-	-	-
MANTRI WALK	E	2.80	E	3.20	E	3.70	-	-	-	-	-	-
DARNA WALK	W	2.80	W	3.20	W	3.70	-	-	-	-	-	-
SAMIR LANE	-	-	-	-	-	-	W	0.60	W	1.20	-	-
RIMO LANE	-	-	-	-	-	-	E	0.60	E	1.20	-	-
PENZO WAY	W	2.10	W	2.60	W	3.10	E	2.80	E	3.40	E	1.00*

1. * DENOTES OFFSET FROM BACK OF KERB.

LEGEND - SERVICES PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- EXISTING STORMWATER DRAIN
- SEWER & MAINTENANCE STRUCTURES
- EXISTING SEWER
- HOUSE DRAIN
- SERVICE CONDUITS
- PROPOSED ELECTRICITY (UNDERGROUND)
- PROPOSED GAS
- PROPOSED OPTIC FIBRE
- PROPOSED TELSTRA
- PROPOSED WATER
- PROPOSED RECYCLED WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING RECYCLED WATER
- PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH & DRIVEWAY
- PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH (WITH THICKENING) & HEAVY DUTY VEHICLE CROSSING
- STORMWATER PIT SETOUT POINT

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 19/02/2025

NOTE: STREET TREE LOCATIONS SHOWN ARE INDICATIVE ONLY. ULTIMATE LOCATION IS TO BE PROVIDED/CONFIRMED BY LANDSCAPE ARCHITECTS

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
The locations of underground & overhead services are approximate only & 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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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	29/01/25	RAISED PAVEMENT/TGSI UPDATED	S.M	A.W	M.T
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
C	18/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
B	30/05/24	AMENDED LOTS ORIENTATION - LOT1517/1518	S.M	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

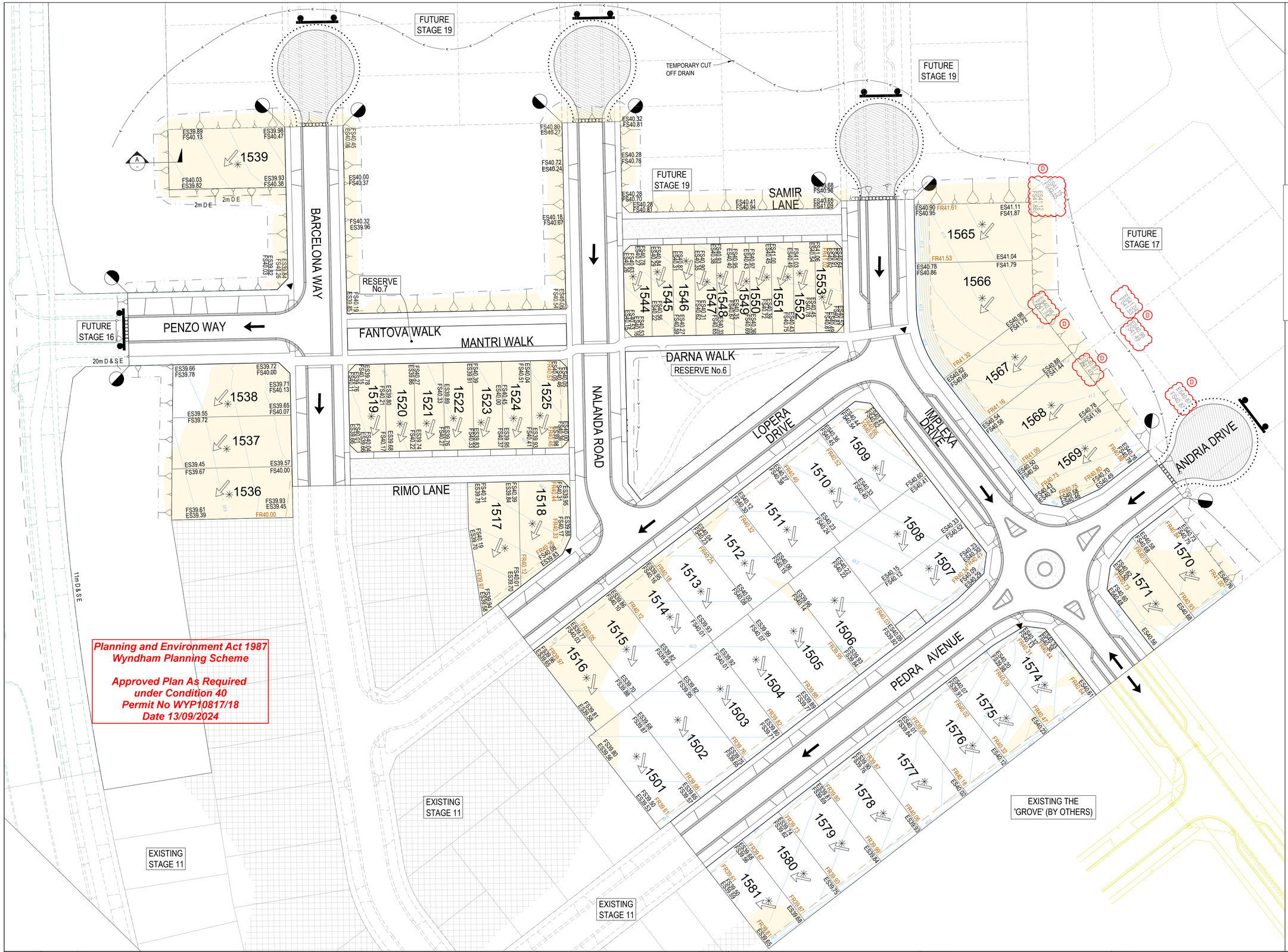
DRAWING TITLE: **ALAMORA - STAGE 15 SERVICES PLAN**

STATUS: **ISSUED FOR CONSTRUCTION**

SCALE @ A1 : 1:500 (0 5 10 20 30)

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R201	1



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Wyndham Planning Scheme

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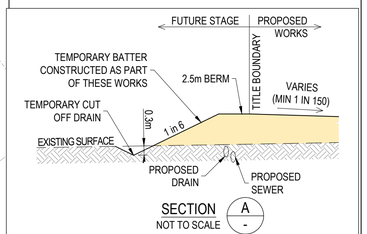
Permit No WYP10817/18
Date 13/09/2024

LEGEND - EARTHWORKS PLAN

- RIDGE LINE
- TOE OF BATTER
- SWALE DRAIN
- ES141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 BOTTOM OF RETAINING WALL
- RETAINING WALL
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- 0.10m CONTOUR



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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
D	27/08/24	COUNCIL COMMENTS – FUT. STAGE 17 LEVELS ADDED	A.W	A.W	M.T
C	18/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
B	30/05/24	AMENDED LOTS ORIENTATION - LOT1517/1518	S.M	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

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creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

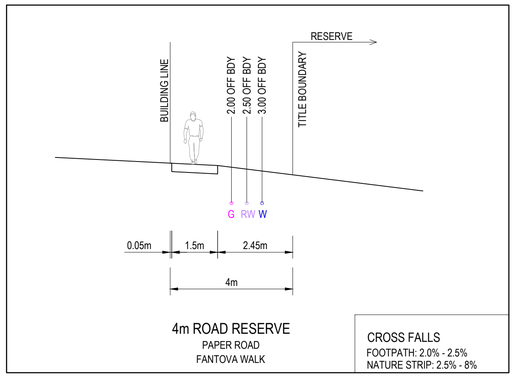
DRAWING TITLE: **ALAMORA - STAGE 15 EARTHWORKS PLAN**

STATUS: **ISSUED FOR APPROVAL** NOT FOR CONSTRUCTION

SCALE @ A1 : 1:500 (0 5 10 20 30)

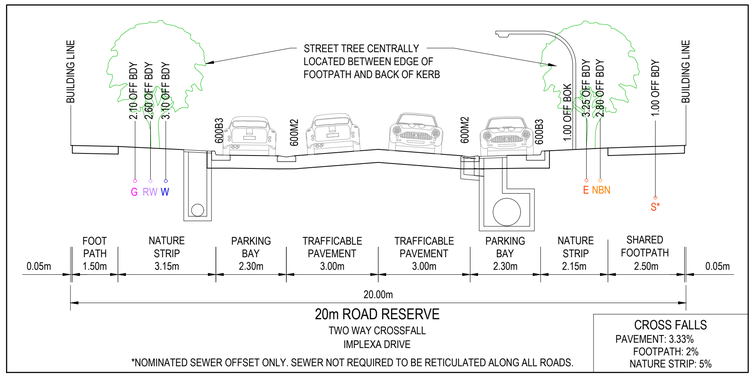
DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R202	D



4m ROAD RESERVE
PAPER ROAD
FANTOVA WALK

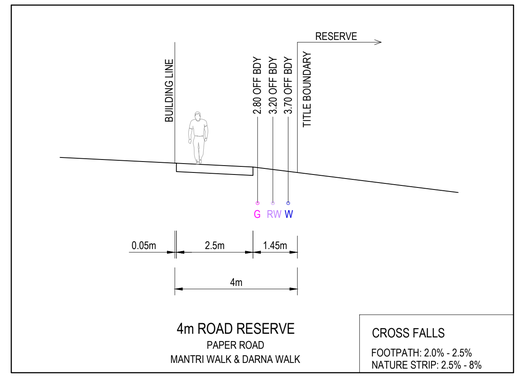
CROSS FALLS
FOOTPATH: 2.0% - 2.5%
NATURE STRIP: 2.5% - 8%



20m ROAD RESERVE
TWO WAY CROSSFALL
IMPLEXA DRIVE

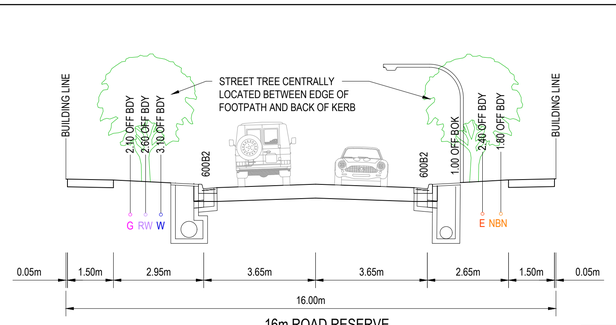
*NOMINATED SEWER OFFSET ONLY. SEWER NOT REQUIRED TO BE RETICULATED ALONG ALL ROADS.

CROSS FALLS
PAVEMENT: 3.33%
FOOTPATH: 2%
NATURE STRIP: 5%



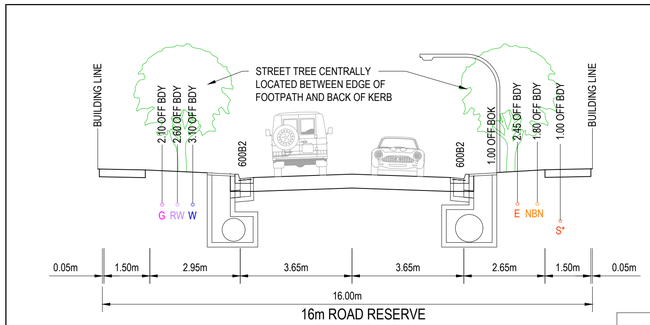
4m ROAD RESERVE
PAPER ROAD
MANTRI WALK & DARNA WALK

CROSS FALLS
FOOTPATH: 2.0% - 2.5%
NATURE STRIP: 2.5% - 8%



16m ROAD RESERVE
TWO WAY CROSSFALL
LOPERA DRIVE LOTS 1514-1516

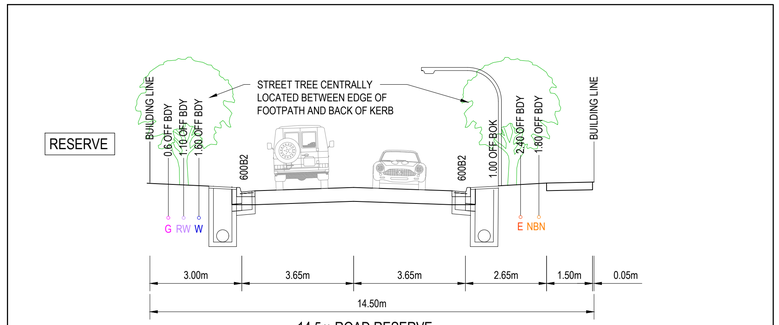
CROSS FALLS
PAVEMENT: 3.33%
FOOTPATH: 2%
NATURE STRIP: 2% -5%



16m ROAD RESERVE
TWO WAY CROSSFALL
PEDRA AVENUE, BARCELONA WAY, NALANDA ROAD & ANDRIA AVENUE

*NOMINATED SEWER OFFSET ONLY. SEWER NOT REQUIRED TO BE RETICULATED ALONG ALL ROADS.

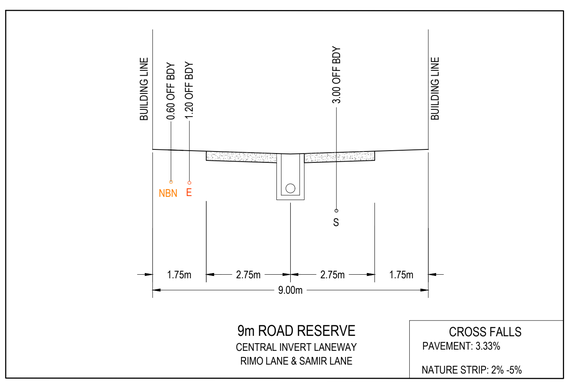
CROSS FALLS
PAVEMENT: 3.33%
FOOTPATH: 2%
NATURE STRIP: 2% -5%



14.5m ROAD RESERVE
TWO WAY CROSSFALL
LOPERA DRIVE LOTS 1509-1513

*NOMINATED SEWER OFFSET ONLY. SEWER NOT REQUIRED TO BE RETICULATED ALONG ALL ROADS.

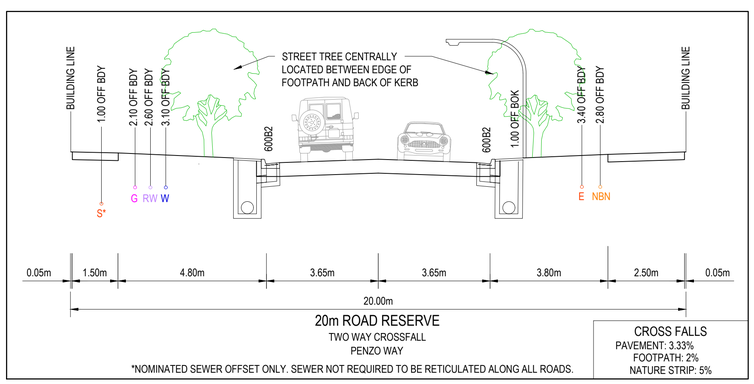
CROSS FALLS
PAVEMENT: 3.33%
FOOTPATH: 2%
NATURE STRIP: 2% -5%



9m ROAD RESERVE
CENTRAL INVERT LANEWAY
RIMO LANE & SAMIR LANE

CROSS FALLS
PAVEMENT: 3.33%

NATURE STRIP: 2% -5%



20m ROAD RESERVE
TWO WAY CROSSFALL
PENZO WAY

*NOMINATED SEWER OFFSET ONLY. SEWER NOT REQUIRED TO BE RETICULATED ALONG ALL ROADS.

CROSS FALLS
PAVEMENT: 3.33%
FOOTPATH: 2%
NATURE STRIP: 5%

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
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DIAL 1100 BEFORE YOU DIG
www.1100.com.au

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	19/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

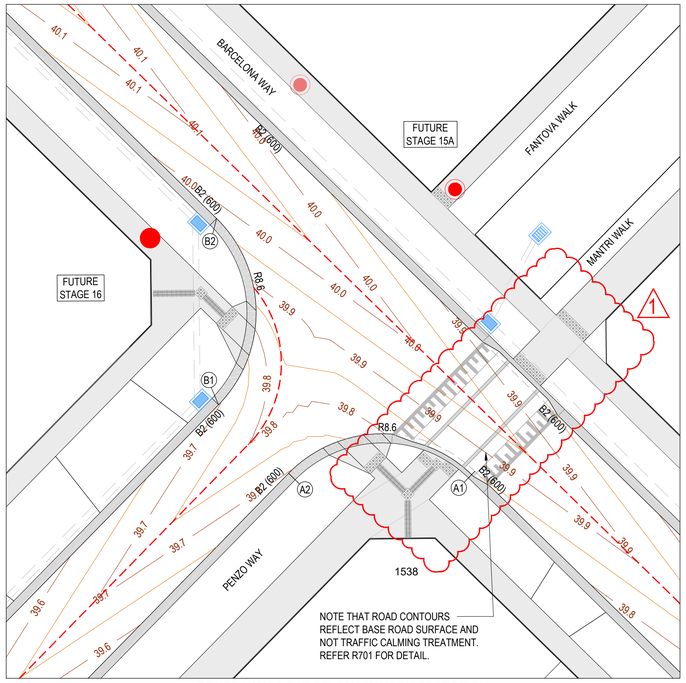
DRAWING TITLE: **ALAMORA - STAGE 15**
TYPICAL CROSS SECTIONS

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

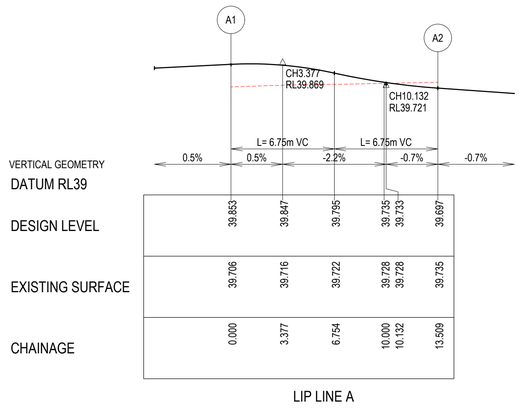
SCALE @ A1 :

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

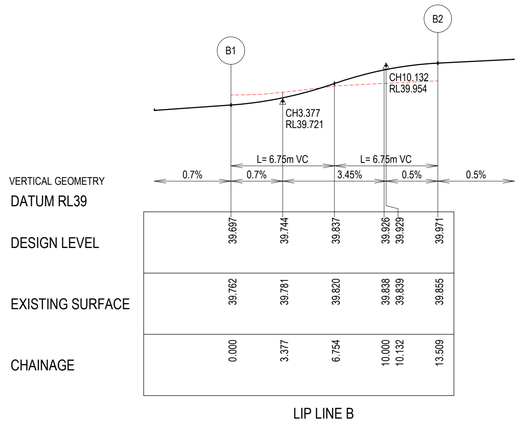
PROJECT No.	DRAWING No.	REVISION
200282.15	R203	B



PENZO WAY & BARCELONA WAY INTERSECTION



LIP LINE A



LIP LINE B

ALIGNMENT A

PT NO	EASTING	NORTHING	RL
A1	292148.701	5807595.713	39.853
A2	292136.539	5807595.582	39.697

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
A1 - A2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	39.795

ALIGNMENT B

PT NO	EASTING	NORTHING	RL
B1	292131.965	5807600.058	39.697
B2	292131.834	5807612.22	39.971

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
B1 - B2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	39.837

LEGEND - INTERSECTION PLAN
- STORMWATER DRAIN & PIT
- TACTILE PAVERS
- PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH & DRIVEWAY
- CROWN
- MINOR CONTOUR
- 188.0 MAJOR CONTOUR

LEGEND - SECTION
- EXISTING SURFACE
- DESIGN LINE

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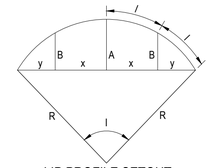
www.1100.com.au

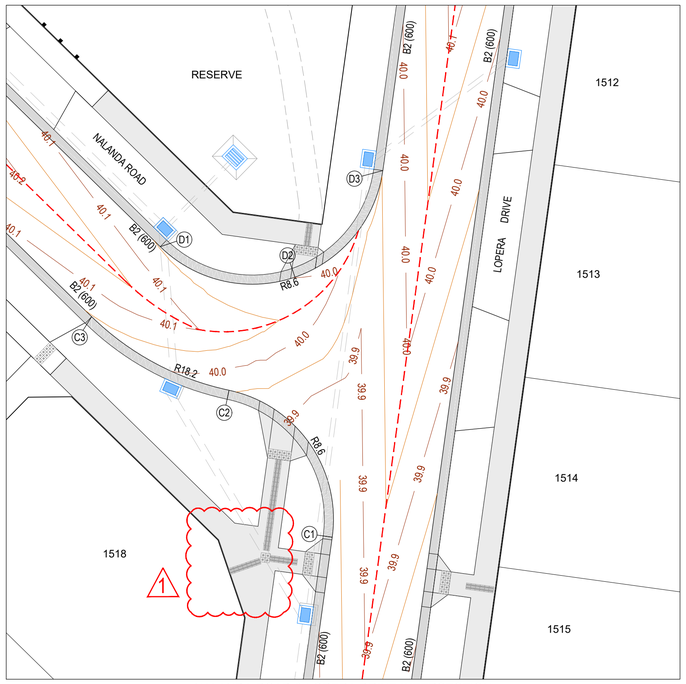
NOTE
FOR SIGNS & LINEMARKING PLAN
REFER SHEETS R800.



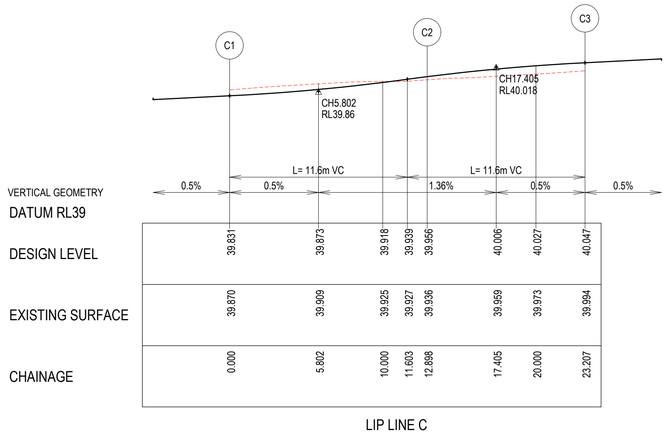
LIP PROFILE SETOUT

1:200 (H) 1:20 (V)

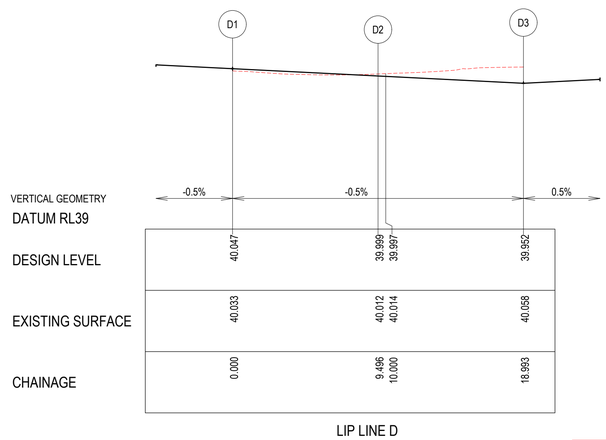
H	2	0	2	4	6	8	10		
V	0.2	0	0.2	0.4	0.6	0.8	1		



NALANDA ROAD & LOPERA DRIVE INTERSECTION



LIP LINE C



LIP LINE D

ALIGNMENT C

PT NO	EASTING	NORTHING	RL
C1	292239.861	5807613.4	39.831
C2	292233.12	5807622.99	39.956
C3	292224.152	5807627.79	40.047

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
C1 - C2	85.931	8.6	12.898	2.307	1.709	3.15	2.712	3.225	39.879
C2 - C3	32.453	18.2	10.309	0.725	0.543	2.569	2.517	2.577	40.011

ALIGNMENT D

PT NO	EASTING	NORTHING	RL
D1	292228.629	5807632.363	40.047
D2	292237.428	5807630.37	39.999
D3	292243.166	5807637.331	39.952

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
D1 - D2	63.268	8.6	9.496	1.278	0.952	2.344	2.167	2.374	40.023
D2 - D3	63.268	8.6	9.496	1.278	0.952	2.344	2.167	2.374	39.976

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 19/02/2025

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	29/01/25	RAISED PAVEMENT/TGSI UPDATED	S.M	A.W	M.T
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
B	30/05/24	AMENDED LOTS ORIENTATION - LOT1517/1518	S.M	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

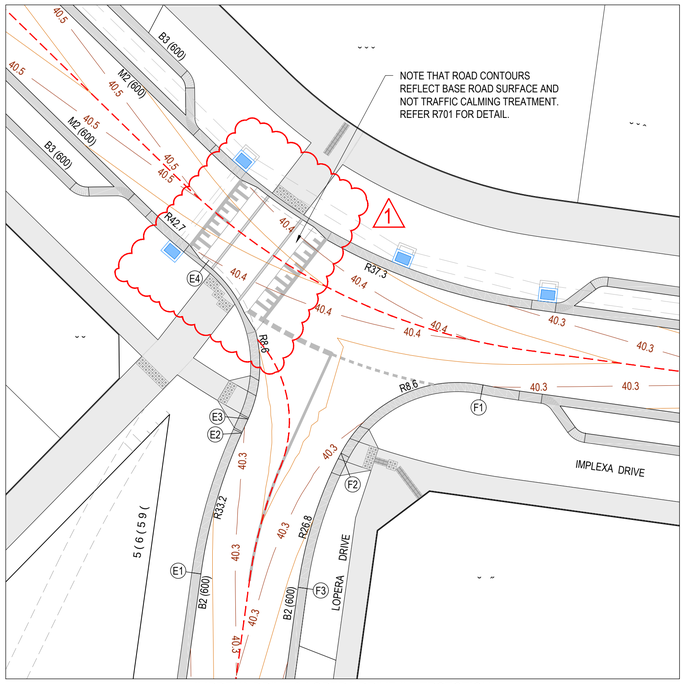
PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15 INTERSECTION DETAILS - 1**

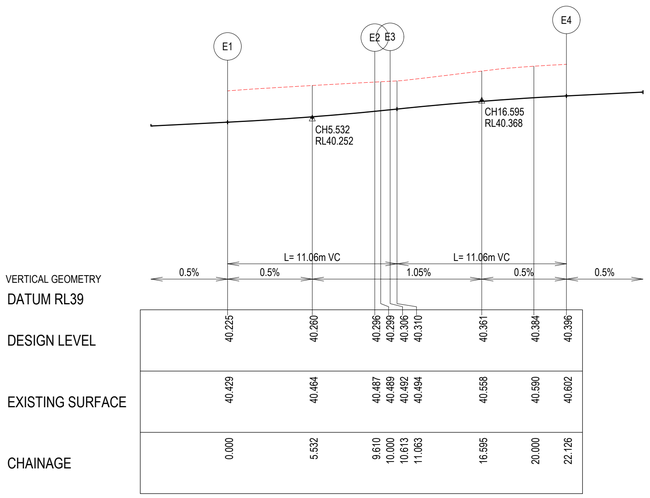
STATUS: **ISSUED FOR CONSTRUCTION**

SCALE @ A1 : 1:200 — 2 0 2 4 6 8 10

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T
PROJECT No.	DRAWING No.	REVISION
200282.15	R300	1



IMPREXA DRIVE & LOPERA DRIVE INTERSECTION



VERTICAL GEOMETRY
DATUM RL39

DESIGN LEVEL	40.225	40.260	40.296	40.299	40.306	40.361	40.384	40.396
EXISTING SURFACE	40.429	40.464	40.487	40.489	40.492	40.494	40.558	40.590	40.602
CHAINAGE	0.000	5.532	9.610	10.000	10.613	11.063	16.595	20.000	22.126

LIP LINE E

ALIGNMENT E

PT NO	EASTING	NORTHING	RL
E1	292250.626	5807691.356	40.225
E2	292253.29	5807700.553	40.296
E3	292253.706	5807701.467	40.306
E4	292251.141	5807711.827	40.396

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
E1 - E2	16.584	33.2	9.61	0.347	0.26	2.4	2.388	2.402	40.254
E3 - E4	76.702	8.6	11.513	1.856	1.379	2.825	2.511	2.878	40.359

VERTICAL GEOMETRY
DATUM RL39

DESIGN LEVEL	40.303	40.312	40.290	40.289	40.282	40.253	40.226	40.225
EXISTING SURFACE	40.521	40.517	40.480	40.479	40.473	40.443	40.414	40.412
CHAINAGE	0.000	5.069	10.000	10.138	11.030	15.207	20.000	20.276

LIP LINE F

ALIGNMENT F

PT NO	EASTING	NORTHING	RL
F1	292269.047	5807703.693	40.303
F2	292259.77	5807699.242	40.282
F3	292256.966	5807690.48	40.225

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
F1 - F2	73.487	8.6	11.03	1.709	1.27	2.711	2.434	2.758	40.312
F2 - F3	19.766	26.8	9.246	0.398	0.298	2.309	2.291	2.311	40.251

LEGEND - INTERSECTION PLAN
- STORMWATER DRAIN & PIT
- TACTILE PAVERS
- PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH & DRIVEWAY
- CROWN
- MINOR CONTOUR
- 188.0 MAJOR CONTOUR

LEGEND - SECTION
- EXISTING SURFACE
- DESIGN LINE

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DIAL 1100 BEFORE YOU DIG
ZZZ FRDX

NOTE
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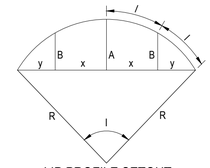


LIP PROFILE SETOUT

1:200 (H) 1:20 (V)

H 2 0 2 4 6 8 10
V 0.2 0 0.2 0.4 0.6 0.8 1

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 19/02/2025

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	29/01/25	RAISED PAVEMENT/TGSI UPDATED	S.M	A.W	M.T
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15 INTERSECTION DETAILS - 2**

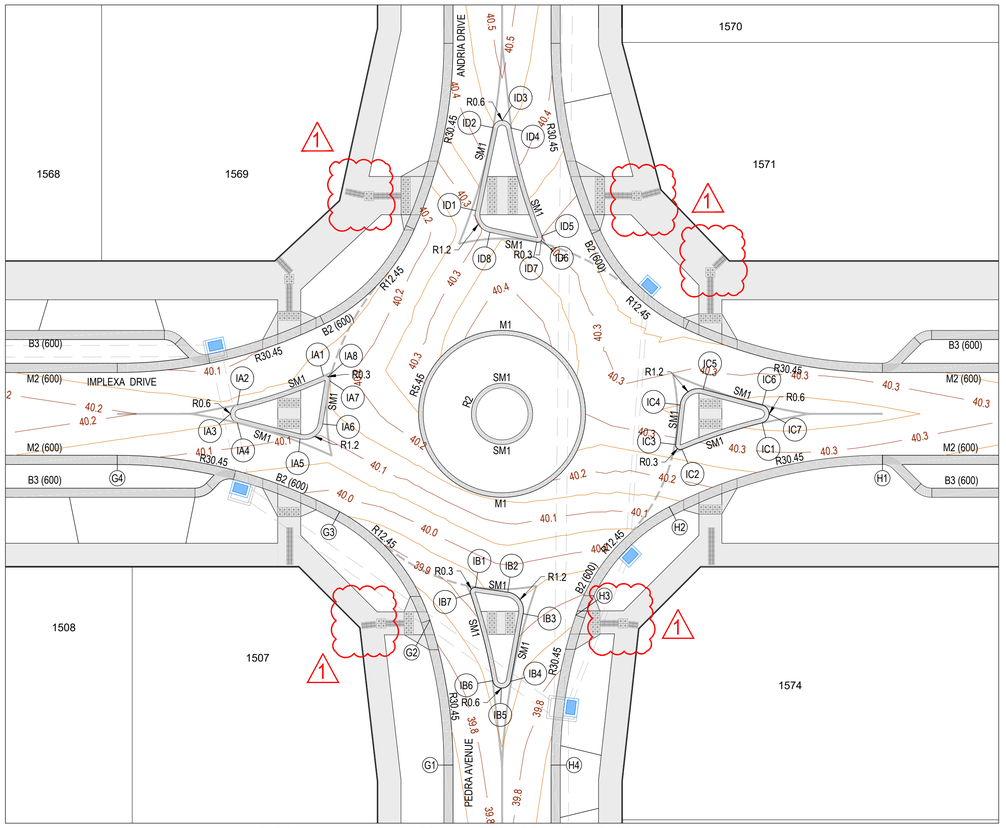
STATUS: **ISSUED FOR CONSTRUCTION**

SCALE @ A1 : 1:200
2 0 2 4 6 8 10

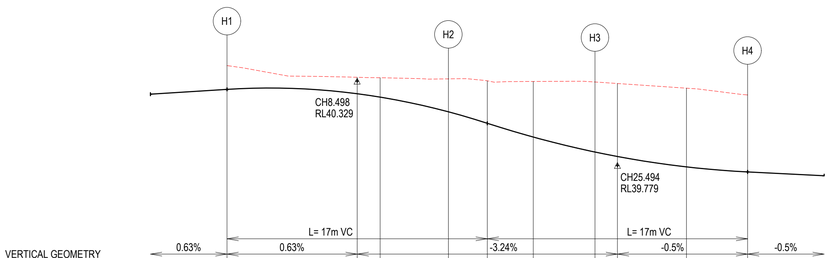
N

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R301	1



PEDRA AVENUE, IMPLEXA DRIVE & ANDRIA DRIVE ROUNDABOUT



VERTICAL GEOMETRY

DATUM RL39

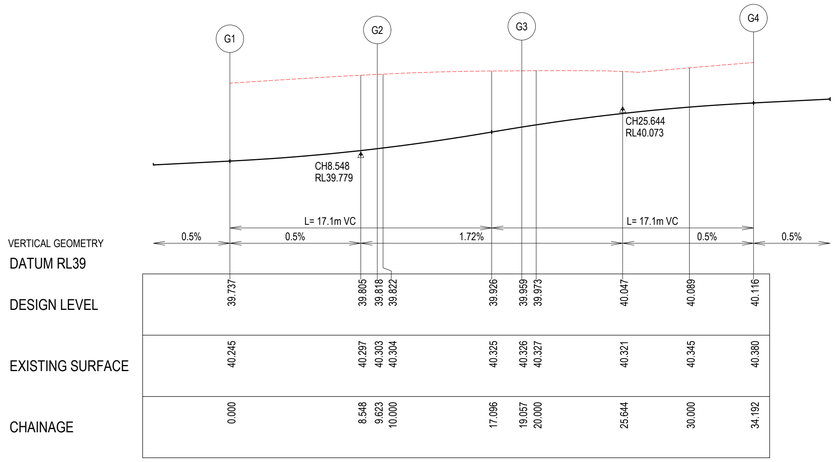
DESIGN LEVEL	40.276	40.247	40.225	40.129	40.054	39.964	39.866	39.837	39.769	39.737
EXISTING SURFACE	40.431	40.355	40.351	40.344	40.331	40.327	40.324	40.314	40.283	40.239
CHAINAGE	0.000	8.498	10.000	14.457	16.996	20.000	24.029	25.494	30.000	33.992

ALIGNMENT H

LIP LINE H

PT NO	EASTING	NORTHING	RL
H1	292355.688	5807691.658	40.276
H2	292341.439	5807690.226	40.129
H3	292334.431	5807684.055	39.866
H4	292331.491	5807674.582	39.737

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
H1 - H2	27.203	30.45	14.457	0.854	0.64	3.606	3.555	3.614	40.262
H2 - H3	44.05	12.45	9.572	0.909	0.679	2.378	2.291	2.393	39.985
H3 - H4	18.748	30.45	9.964	0.407	0.305	2.488	2.471	2.491	39.781



VERTICAL GEOMETRY

DATUM RL39

DESIGN LEVEL	39.737	39.805	39.818	39.822	39.926	39.959	39.973	40.047	40.089	40.116
EXISTING SURFACE	40.245	40.297	40.303	40.304	40.325	40.326	40.327	40.321	40.345	40.380
CHAINAGE	0.000	8.548	9.623	10.000	17.096	19.057	20.000	25.644	30.000	34.192

LIP LINE G

ALIGNMENT G

PT NO	EASTING	NORTHING	RL
G1	292325.152	5807675.457	39.737
G2	292324.952	5807685.038	39.818
G3	292320.079	5807692.852	39.959
G4	292306.2	5807698.489	40.116

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
G1 - G2	18.107	30.45	9.623	0.379	0.284	2.403	2.388	2.406	39.769
G2 - G3	43.414	12.45	9.434	0.883	0.66	2.344	2.26	2.358	39.882
G3 - G4	28.479	30.45	15.135	0.936	0.701	3.774	3.716	3.784	40.058

ALIGNMENT IA

PT NO	EASTING	NORTHING	RL
IA1	292320.239	5807701.775	40.153
IA2	292314.425	5807700.671	40.162
IA3	292313.891	5807700.16	40.169
IA4	292314.258	5807699.518	40.149
IA5	292318.165	5807697.921	40.100
IA6	292319.766	5807698.677	40.121
IA7	292320.607	5807701.398	40.149
IA8	292320.535	5807701.696	40.151

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
IA1 - IA2	10.134	33.5	5.925	0.131	0.098	1.481	1.478	1.481	40.157
IA2 - IA3	76.04	0.6	0.796	0.127	0.095	0.195	0.174	0.199	40.163
IA3 - IA4	76.04	0.6	0.796	0.127	0.095	0.195	0.174	0.199	40.158
IA5 - IA6	95.047	1.2	1.991	0.39	0.288	0.484	0.402	0.498	40.100
IA7 - IA8	61.504	0.3	0.322	0.042	0.031	0.08	0.074	0.081	40.150
IA8 - IA1	61.504	0.3	0.322	0.042	0.031	0.08	0.074	0.081	40.152

ALIGNMENT IB

PT NO	EASTING	NORTHING	RL
IB1	292328.187	5807686.742	39.936
IB2	292330.232	5807686.148	39.968
IB3	292331.037	5807684.618	39.922
IB4	292329.623	5807680.356	39.870
IB5	292328.963	5807680.000	39.882
IB6	292328.471	5807680.566	39.867
IB7	292327.809	5807686.399	39.921

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
IB2 - IB3	92.141	1.2	1.93	0.367	0.272	0.47	0.395	0.482	39.946
IB4 - IB5	77.34	0.6	0.81	0.132	0.098	0.199	0.176	0.202	39.874
IB5 - IB6	77.34	0.6	0.81	0.132	0.098	0.199	0.176	0.202	39.871
IB6 - IB7	8.247	40.819	5.876	0.106	0.079	1.469	1.467	1.469	39.888
IB7 - IB1	116.567	0.3	0.61	0.142	0.104	0.146	0.109	0.153	39.928

ALIGNMENT IC

PT NO	EASTING	NORTHING	RL
IC1	292348.199	5807694.829	40.367
IC2	292342.78	5807693.833	40.275
IC3	292342.411	5807694.197	40.284
IC4	292343.056	5807696.718	40.350
IC5	292344.683	5807697.527	40.334
IC6	292348.371	5807695.979	40.368
IC7	292348.732	5807695.337	40.388

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
IC1 - IC2	9.434	33.5	5.516	0.113	0.085	1.379	1.376	1.379	40.328
IC2 - IC3	119.491	0.3	0.626	0.149	0.109	0.149	0.11	0.156	40.275
IC4 - IC5	98.396	1.2	2.061	0.416	0.307	0.5	0.409	0.515	40.333
IC6 - IC7	75.774	0.6	0.793	0.126	0.094	0.195	0.174	0.198	40.376
IC7 - IC1	75.774	0.6	0.793	0.126	0.094	0.195	0.174	0.198	40.375

ALIGNMENT ID

PT NO	EASTING	NORTHING	RL
ID1	292331.567	5807711.121	40.309
ID2	292333.43	5807716.315	40.444
ID3	292334.085	5807716.706	40.468
ID4	292334.595	5807716.139	40.446
ID5	292335.633	5807708.881	40.300
ID6	292335.542	5807708.587	40.304
ID7	292335.24	5807708.528	40.311
ID8	292332.291	5807709.586	40.317

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
ID2 - ID3	78.882	0.6	0.826	0.137	0.101	0.202	0.179	0.207	40.456
ID3 - ID4	78.882	0.6	0.826	0.137	0.101	0.202	0.179	0.207	40.456
ID4 - ID5	11.286	37.28	7.343	0.181	0.135	1.835	1.831	1.836	40.372
ID5 - ID6	61.761	0.3	0.323	0.043	0.032	0.08	0.074	0.081	40.300
ID6 - ID7	61.761	0.3	0.323	0.043	0.032	0.08	0.074	0.081	40.308
ID8 - ID1	90	1.2	1.885	0.351	0.26	0.459	0.389	0.471	40.298

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 19/02/2025

LEGEND - INTERSECTION PLAN

- STORMWATER DRAIN & PIT
- TACTILE PAVERS
- PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH & DRIVEWAY
- CROWN
- MINOR CONTOUR
- 188.0 MAJOR CONTOUR

LEGEND - SECTION

- EXISTING SURFACE
- DESIGN LINE

WARNING

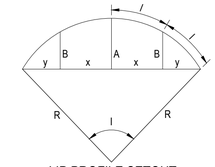
BEWARE OF UNDERGROUND & OVERHEAD SERVICES

The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

DIAL 1100 BEFORE YOU DIG

www.1100.com.au

NOTE
FOR SIGNS & LINEMARKING PLAN REFER SHEETS R800.



LIP PROFILE SETOUT

1:200 (H) 1:20 (V)

H 2 0 2 4 6 8 10

V 0.2 0 0.2 0.4 0.6 0.8 1

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	29/01/25	TGSI UPDATED	S.M	A.W	M.T
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

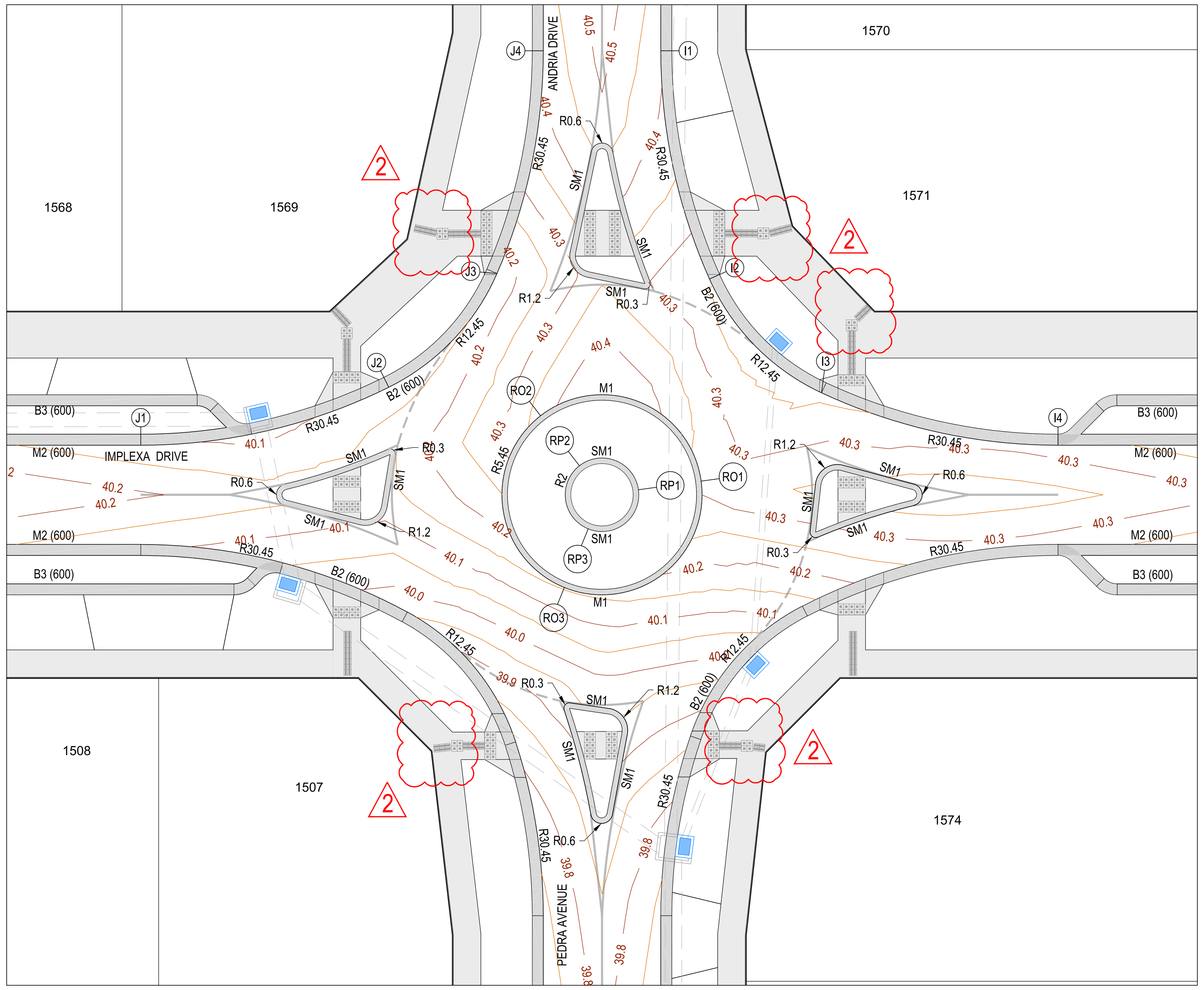
DRAWING TITLE: **ALAMORA - STAGE 15 INTERSECTION DETAILS - 3**

STATUS: **ISSUED FOR CONSTRUCTION**

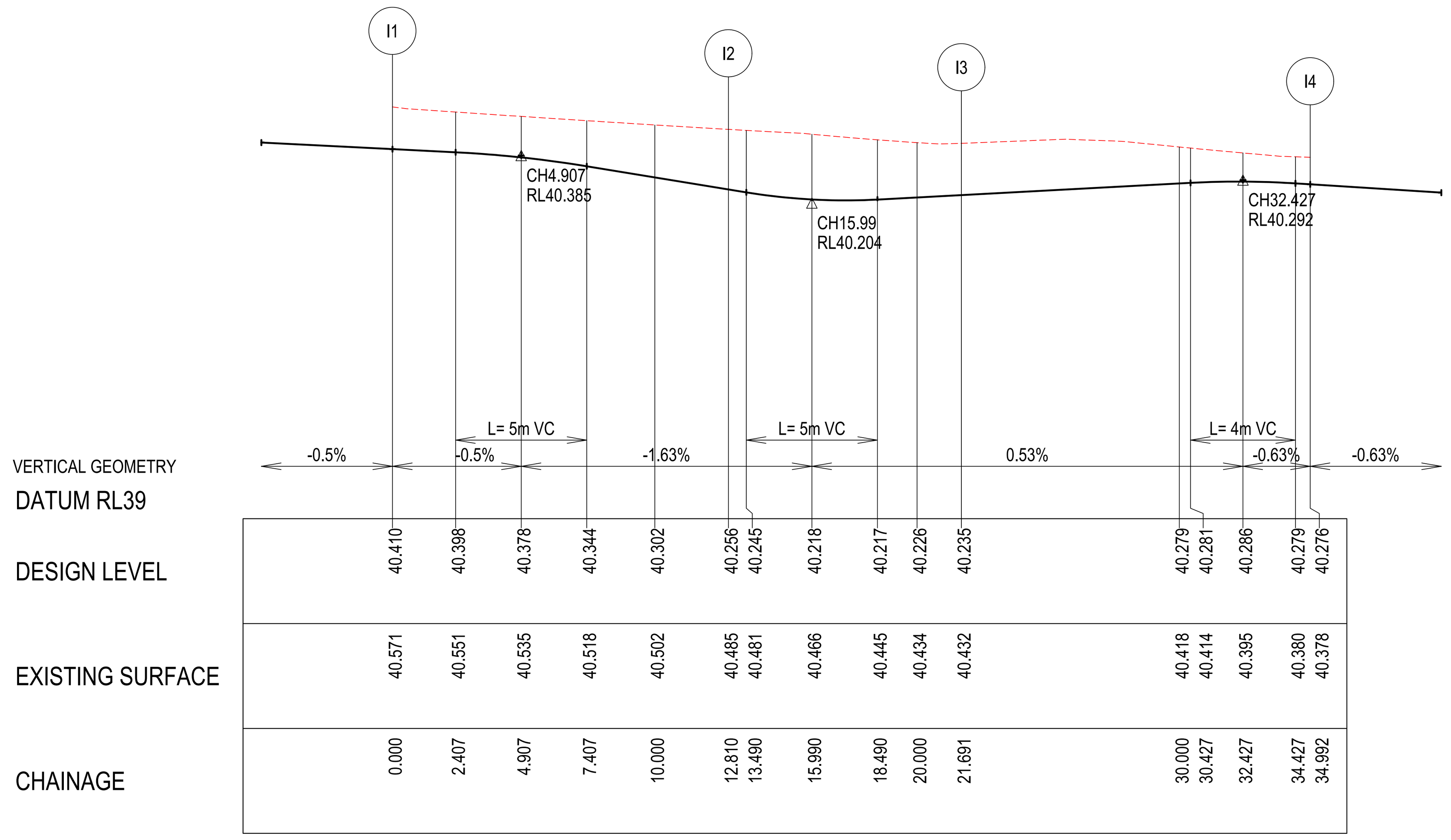
SCALE @ A1 : 1:200 — 2 0 2 4 6 8 10

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R302	1



PEDRA AVENUE, IMPLEXA DRIVE & ANDRIA DRIVE ROUNDABOUT



CHAINAGE	DESIGN LEVEL	EXISTING SURFACE
0.000	40.410	40.571
2.407	40.398	40.551
4.907	40.378	40.535
7.407	40.344	40.518
10.000	40.302	40.502
12.810	40.256	40.485
13.490	40.245	40.481
15.990	40.218	40.466
18.490	40.217	40.445
20.000	40.226	40.434
21.691	40.235	40.432
30.000	40.279	40.418
30.427	40.281	40.414
32.427	40.286	40.395
34.427	40.279	40.380
34.992	40.276	40.378

LIP LINE I

ALIGNMENT I

PT NO	EASTING	NORTHING	RL
I1	292337.937	5807721.256	40.41
I2	292338.866	5807708.574	40.256
I3	292344.059	5807701.601	40.235
I4	292356.429	5807697.008	40.276

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
I1 - I2	24.103	30.45	12.81	0.671	0.503	3.196	3.161	3.202	40.36
I2 - I3	40.873	12.45	8.881	0.784	0.586	2.209	2.139	2.22	40.214
I3 - I4	25.027	30.45	13.301	0.723	0.542	3.319	3.279	3.325	40.27

LEGEND - INTERSECTION PLAN
- STORMWATER DRAIN & PIT
- TACTILE PAVERS
- PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH & DRIVEWAY
- CROWN
- MINOR CONTOUR
- 188.0 MAJOR CONTOUR

LEGEND - SECTION
- EXISTING SURFACE
- DESIGN LINE

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
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DIAL 1100 BEFORE YOU DIG
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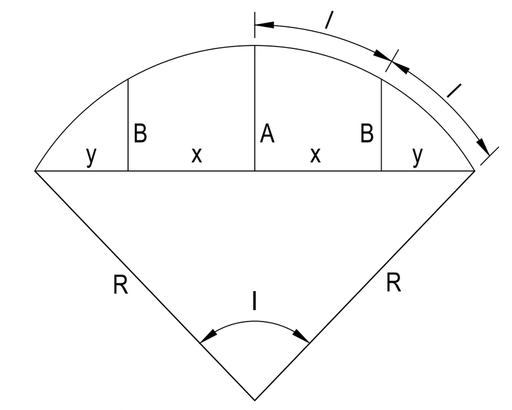
NOTE
FOR SIGNS & LINEMARKING PLAN REFER SHEETS R800.

Planning and Environment Act 1987
Wyndham Planning Scheme

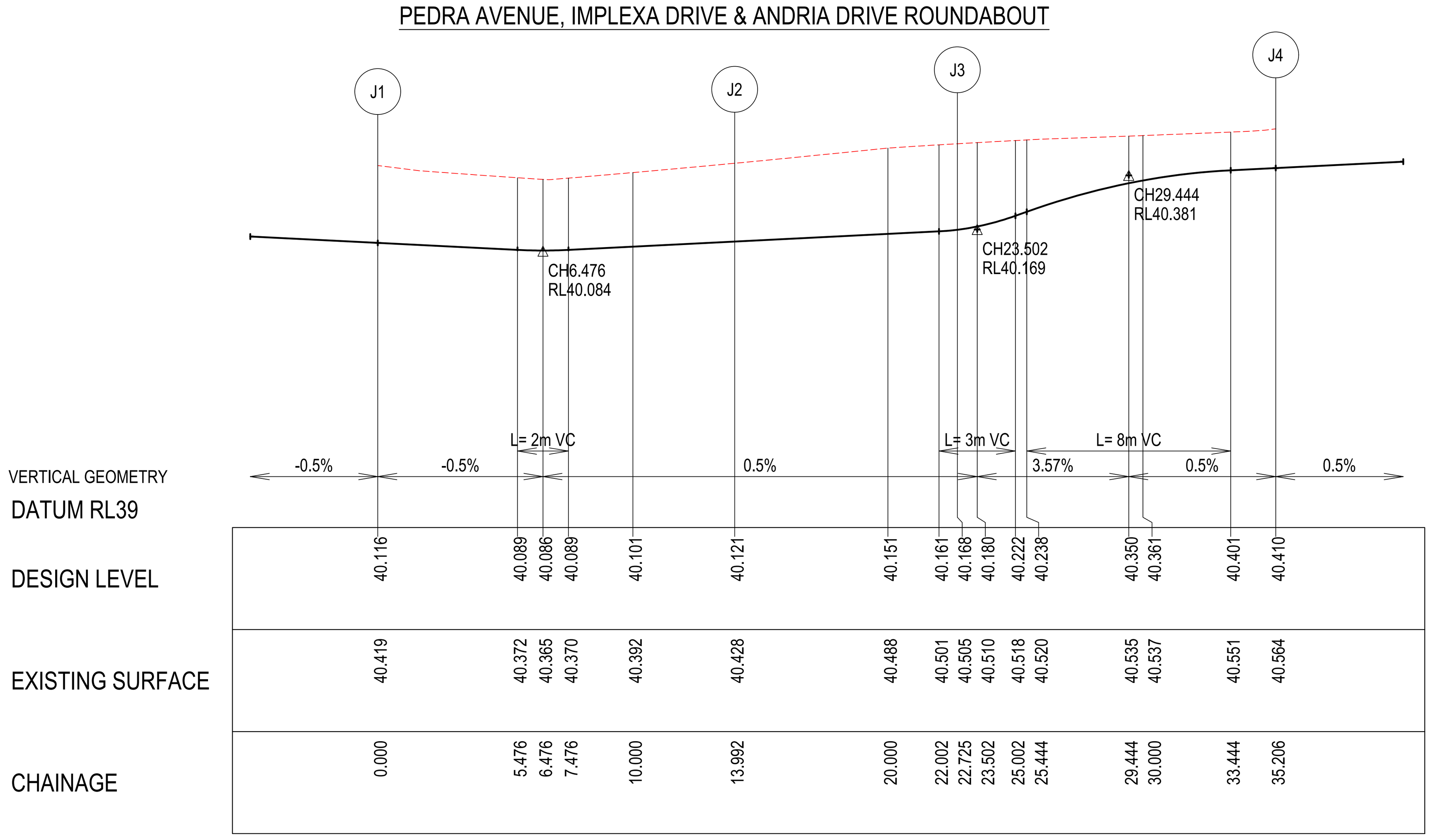
Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 19/02/2025



LIP PROFILE SETOUT

1:200 (H) 1:20 (V)

H 2 0 2 4 6 8 10
V 0.2 0 0.2 0.4 0.6 0.8 1



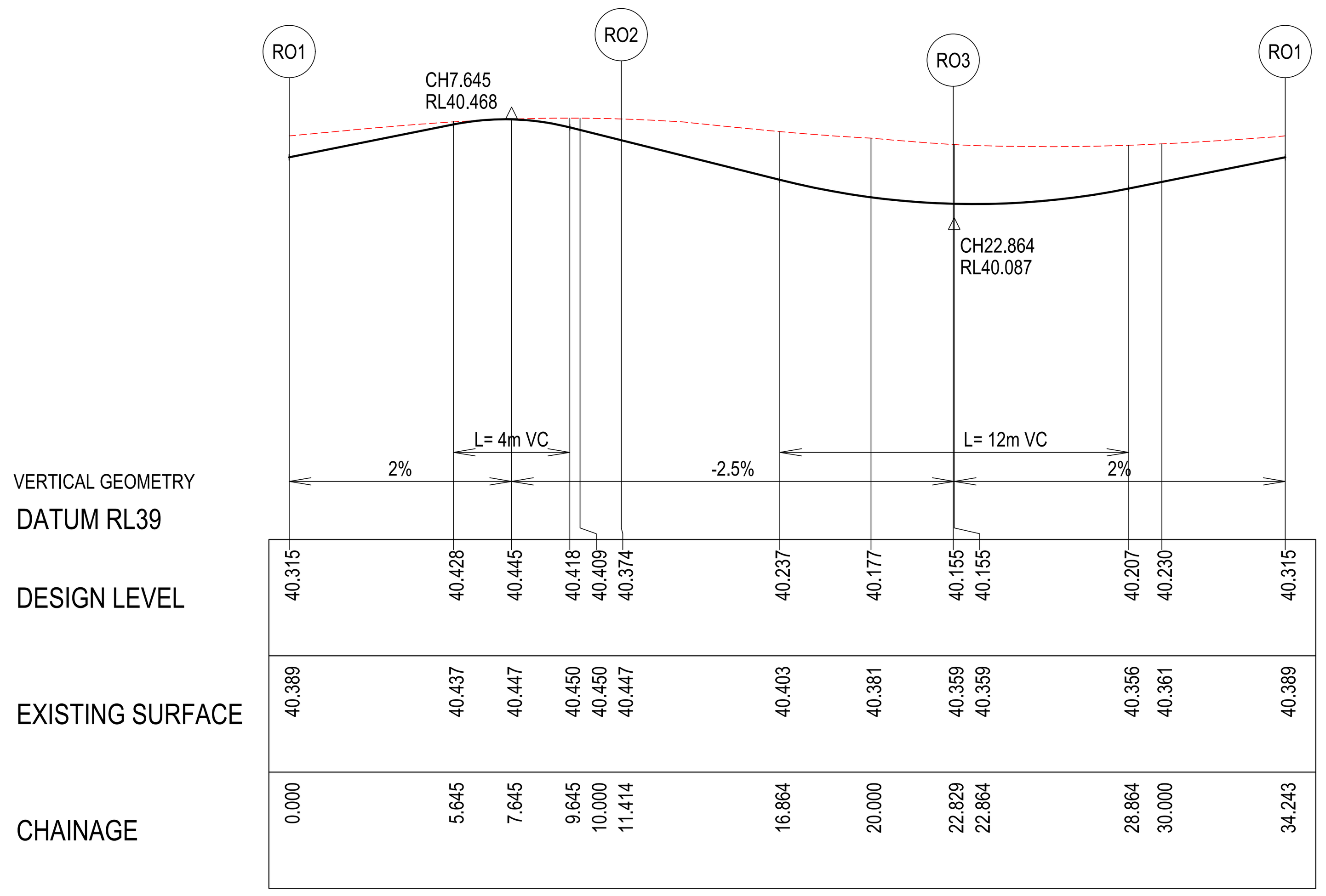
CHAINAGE	DESIGN LEVEL	EXISTING SURFACE
0.000	40.116	40.419
5.476	40.089	40.372
6.476	40.086	40.365
7.476	40.089	40.370
10.000	40.101	40.392
13.992	40.121	40.428
20.000	40.151	40.488
22.002	40.161	40.501
22.725	40.168	40.505
23.502	40.180	40.510
25.002	40.222	40.518
25.444	40.238	40.520
29.444	40.350	40.535
30.000	40.361	40.537
33.444	40.401	40.551
35.206	40.410	40.564

ALIGNMENT J

LIP LINE J

PT NO	EASTING	NORTHING	RL
J1	292306.939	5807703.842	40.116
J2	292320.749	5807705.123	40.121
J3	292327.438	5807710.456	40.168
J4	292331.597	5807722.131	40.41

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
J1 - J2	26.328	30.45	13.992	0.8	0.599	3.49	3.444	3.498	40.087
J2 - J3	40.186	12.45	8.732	0.758	0.567	2.172	2.105	2.183	40.143
J3 - J4	23.485	30.45	12.481	0.637	0.478	3.115	3.082	3.12	40.34



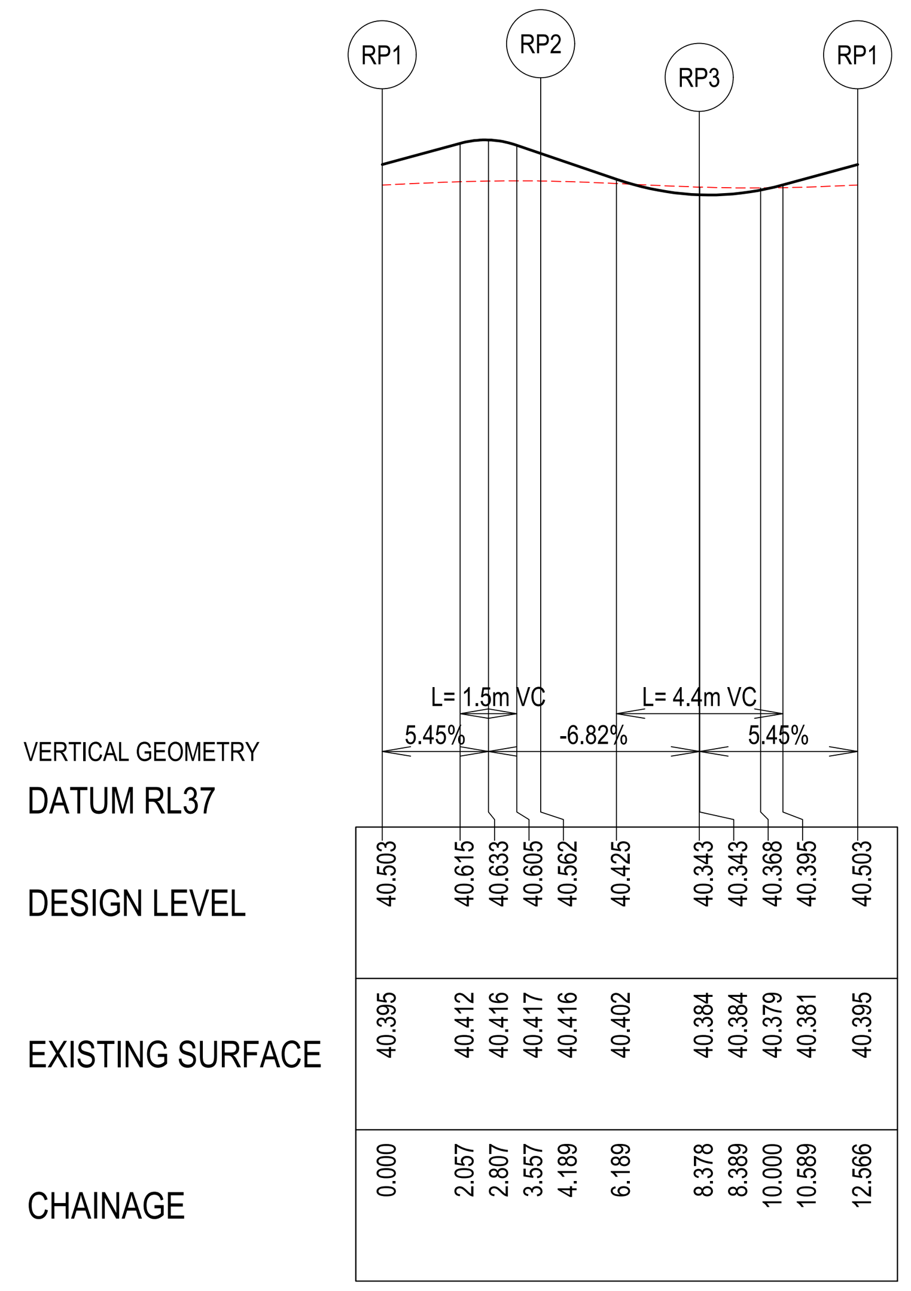
CHAINAGE	DESIGN LEVEL	EXISTING SURFACE
0.000	40.315	40.389
5.645	40.428	40.437
7.645	40.445	40.447
9.645	40.418	40.450
10.000	40.409	40.450
11.414	40.374	40.447
16.864	40.237	40.403
20.000	40.177	40.381
22.829	40.155	40.359
22.864	40.155	40.359
28.864	40.207	40.356
30.000	40.230	40.361
34.243	40.315	40.389

LIP LINE RO

ALIGNMENT RO

PT NO	EASTING	NORTHING	RL
RO1	292336.908	5807697.73	40.315
RO2	292328.733	5807702.45	40.374
RO3	292328.733	5807693.011	40.155

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
RO1 - RO2	120	5.45	11.414	2.725	1.995	2.725	1.995	2.854	40.429
RO2 - RO3	120	5.45	11.414	2.725	1.995	2.725	1.995	2.854	40.231
RO3 - RO1	120	5.45	11.414	2.725	1.995	2.725	1.995	2.854	40.201



CHAINAGE	DESIGN LEVEL	EXISTING SURFACE
0.000	40.503	40.395
2.057	40.615	40.412
2.807	40.633	40.416
3.557	40.605	40.417
4.189	40.562	40.416
6.189	40.425	40.402
8.378	40.343	40.384
8.389	40.343	40.384
10.000	40.368	40.379
10.589	40.395	40.381
12.566	40.503	40.395

LIP LINE RP

ALIGNMENT RP

PT NO	EASTING	NORTHING	RL
RP1	292333.458	5807697.73	40.503
RP2	292330.458	5807699.462	40.562
RP3	292330.458	5807695.998	40.343

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
RP1 - RP2	120	2	4.189	1	0.732	1	0.732	1.047	40.616
RP2 - RP3	120	2	4.189	1	0.732	1	0.732	1.047	40.420
RP3 - RP1	120	2	4.189	1	0.732	1	0.732	1.047	40.390

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
2	29/01/25	TGSI UPDATED	S.M	A.W	M.T
1	11/11/24	ADDED LIP PROFILE ALIGNMENT RP	S.M	A.W	M.T
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT
villawood properties
Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT
ALAMORA Tarneit

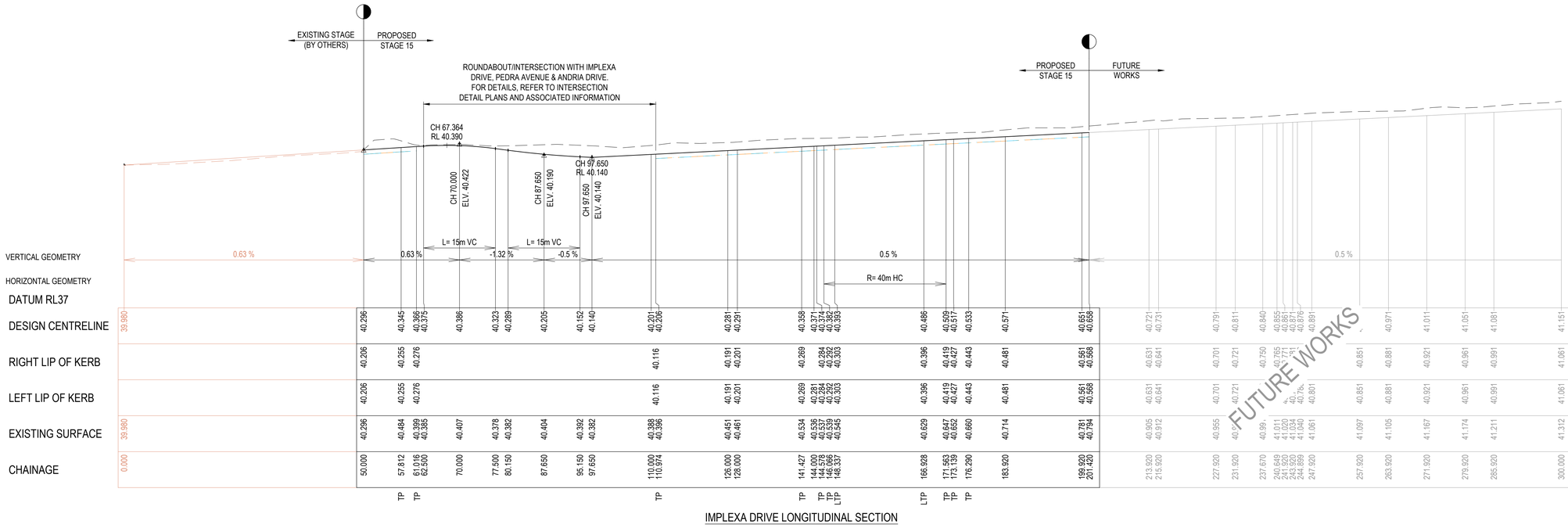
DRAWING TITLE
ALAMORA - STAGE 15
INTERSECTION DETAILS - 4

STATUS
ISSUED FOR CONSTRUCTION

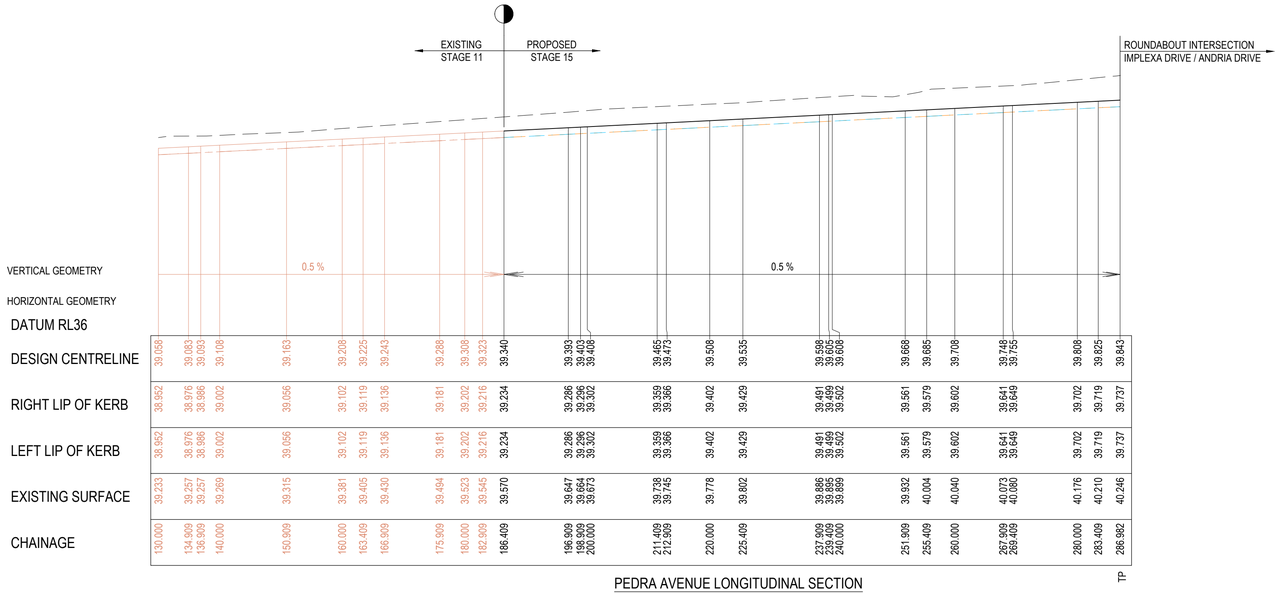
SCALE @ A1 : 1:200
2 0 2 4 6 8 10

N

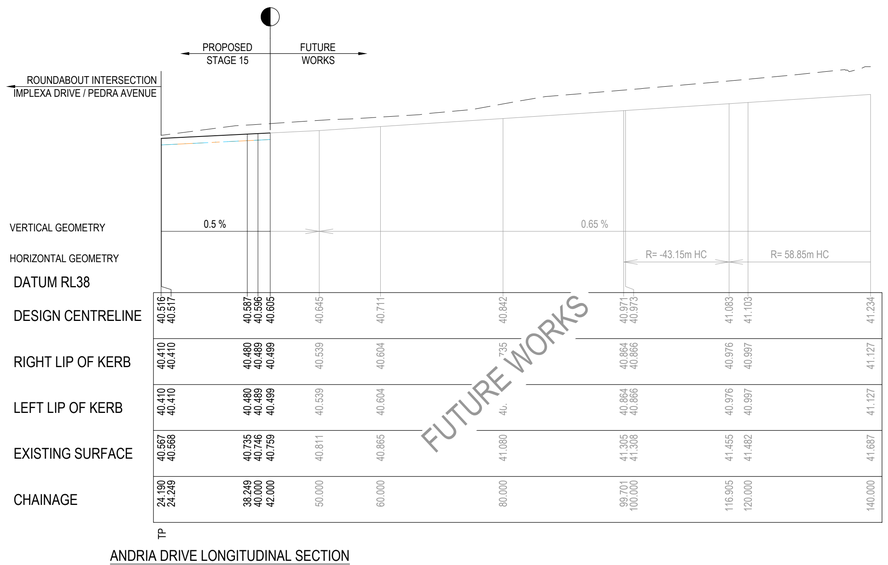
DESIGNED S.M
PROJECT ENGINEER S.M
DRAWN S.M
PROJECT MANAGER M.T
PROJECT No. 200282.15
DRAWING No. R303
REVISION 2



IMPLEXA DRIVE LONGITUDINAL SECTION



PEDRA AVENUE LONGITUDINAL SECTION



ANDRIA DRIVE LONGITUDINAL SECTION

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE
- EXISTING DESIGN LINE
- LEFT LIP OF KERB
- RIGHT LIP OF KERB

NOTE: REFER TO GENERAL NOTES REGARDING STRUCTURAL FILL

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15**
ROAD LONGITUDINAL SECTIONS - 1

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

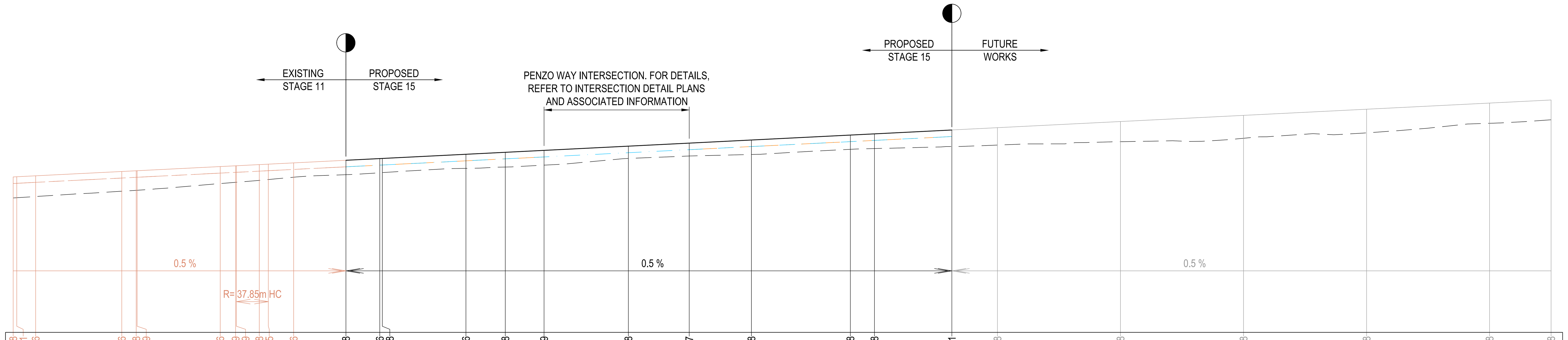
SCALE @ A1 : 1:500 (H) 1:50 (V)
H 10 5 0 10 20
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T
PROJECT No.	DRAWING No. / REVISION
200282.15	R400 / A

LEGEND

Line	Meaning
— — — —	EXISTING SURFACE
———	DESIGN LINE
——— (grey)	FUTURE DESIGN LINE
——— (salmon)	EXISTING DESIGN LINE
—— – —— (orange)	LEFT LIP OF KERB
—— · —— (blue)	RIGHT LIP OF KERB

NOTE: REFER TO GENERAL NOTES REGARDING STRUCTURAL FILL

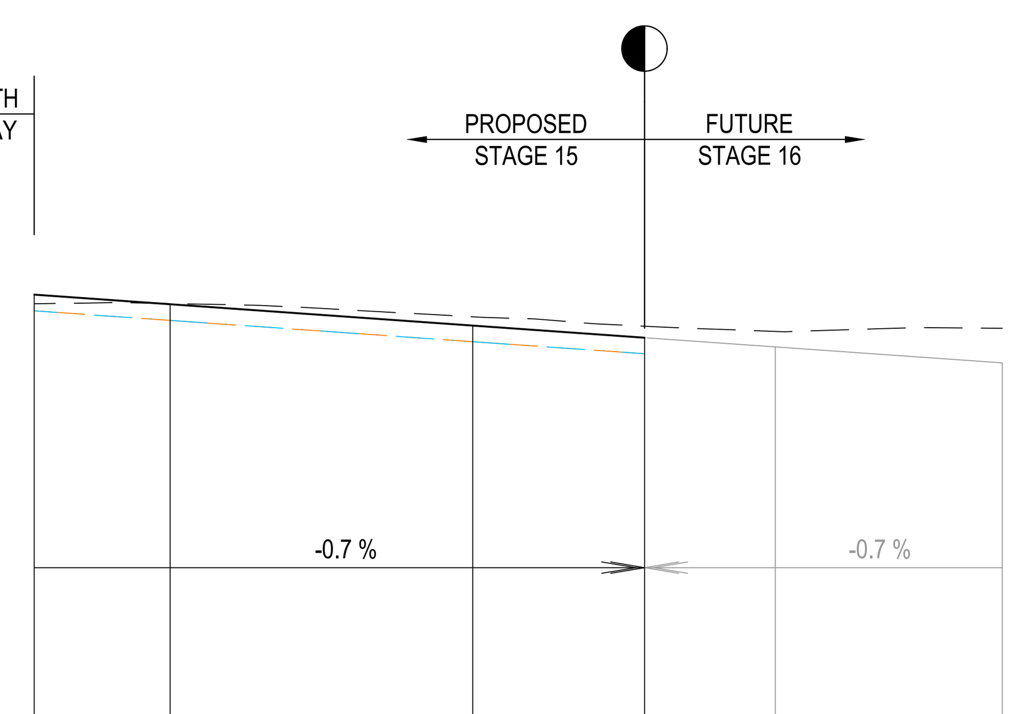


CHAINAGE	DESIGN CENTRELINE	RIGHT LIP OF KERB	LEFT LIP OF KERB	EXISTING SURFACE	
100.000	39.528	39.421	39.421	39.185	
100.574	39.531	39.424	39.424	39.189	
103.652	39.546	39.439	39.439	39.209	
117.652	39.616	39.509	39.509	39.295	
120.000	39.628	39.521	39.521	39.310	
120.148	39.629	39.522	39.522	39.311	
133.652	39.696	39.589	39.589	39.420	
136.148	39.709	39.602	39.602	39.439	
136.285	39.709	39.603	39.603	39.440	
140.000	39.728	39.621	39.621	39.472	
141.471	39.735	39.628	39.628	39.485	
145.592	39.756	39.649	39.649	39.523	
154.092	39.798	39.692	39.692	39.564	
159.592	39.826	39.719	39.719	39.595	
160.000	39.828	39.721	39.721	39.597	
173.592	39.896	39.789	39.789	39.667	
180.000	39.928	39.821	39.821	39.689	
186.292	39.959	39.853	39.853	39.719	LTP
200.000	40.028	39.921		39.828	
209.892	40.077	39.971		39.868	LTP
220.000	40.128	40.021	40.021	39.892	
236.092	40.208	40.102	40.102	39.977	
240.000	40.228	40.121	40.121	39.988	
252.592	40.291	40.184	40.184	40.022	
260.000	40.328	40.221	40.221	40.045	
280.000	40.428	40.321	40.321	40.100	
300.000	40.528	40.421		40.156	
320.000	40.628	40.521	40.521	40.244	
340.000	40.728	40.621	40.621	40.400	
350.000	40.778	40.671	40.671	40.457	

BARCELONA WAY LONGITUDINAL SECTION

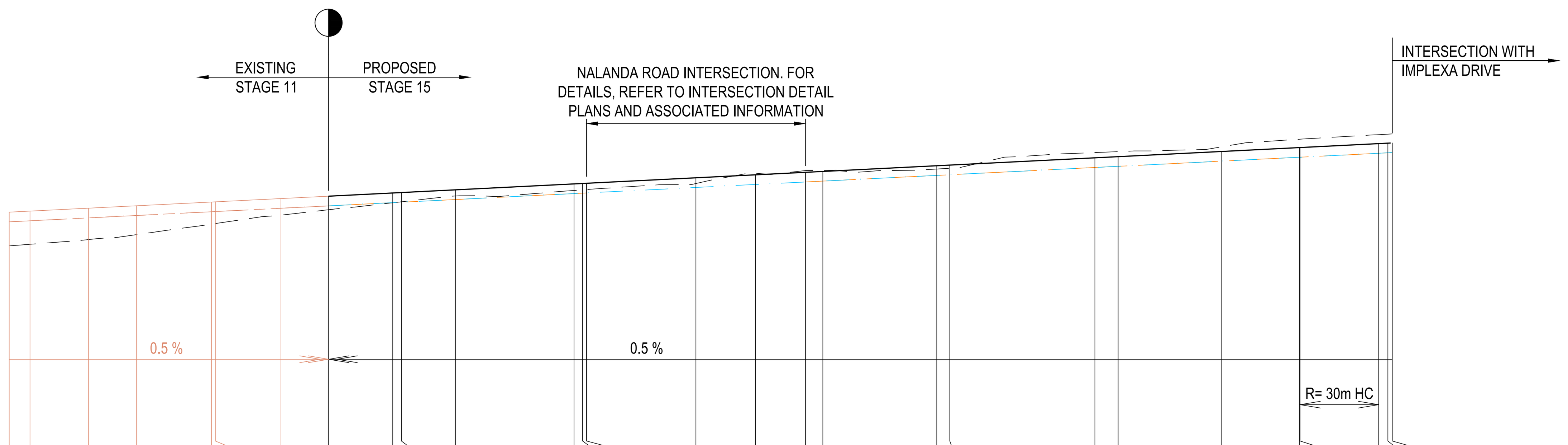
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024



CHAINAGE	DESIGN CENTRELINE	RIGHT LIP OF KERB	LEFT LIP OF KERB	EXISTING SURFACE	
11.016	39.804	39.697	39.697	39.744	TP
20.000	39.741	39.634	39.634	39.745	
40.000	39.600	39.493	39.493	39.658	
51.366	39.520	39.413	39.413	39.596	
60.000	39.459	39.353	39.353	39.562	
75.000	39.354	39.247		39.582	

PENZO WAY LONGITUDINAL SECTION



CHAINAGE	DESIGN CENTRELINE	RIGHT LIP OF KERB	LEFT LIP OF KERB	EXISTING SURFACE	
17.705	39.620	39.513	39.513	39.248	
20.000	39.631	39.524	39.524	39.265	
26.437	39.663	39.557	39.557	39.318	
31.722	39.690	39.583	39.583	39.372	
40.000	39.731	39.624	39.624	39.488	
40.437	39.733	39.627	39.627	39.494	
47.678	39.769	39.663	39.663	39.587	
52.937	39.796	39.689	39.689	39.646	
60.000	39.831	39.724	39.724	39.723	
60.952	39.836	39.729	39.729	39.734	
66.937	39.866	39.759	39.759	39.797	
80.000	39.931	39.824	39.824	39.859	LTP
80.937	39.936	39.829	39.829	39.865	
81.369	39.938	39.831	39.831	39.869	
93.437	39.998	39.892		39.935	
100.000	40.031	39.924		40.048	
105.527	40.059	39.952	39.952	40.077	LTP
107.437	40.068	39.962	39.962	40.079	
120.000	40.131	40.024	40.024	40.094	
121.437	40.138	40.032	40.032	40.103	
137.437	40.218	40.112	40.112	40.276	
140.000	40.231	40.124	40.124	40.286	
151.437	40.288	40.182	40.182	40.339	
160.000	40.331	40.224	40.224	40.422	
160.064	40.331	40.224	40.224	40.423	
168.748	40.375	40.273	40.296	40.473	
169.751	40.380	40.280	40.304	40.479	
170.235	40.382	40.281	40.309	40.481	

LOPERA DRIVE LONGITUDINAL SECTION

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	30/05/24	AMENDED LOTS ORIENTATION - LOT1517/1518	S.M	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties – Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE:
ALAMORA - STAGE 15
ROAD LONGITUDINAL SECTIONS - 2

STATUS:
ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:500 (H) 1:50 (V)
H 10 5 0 10 20
V 1 0.5 0 1 2

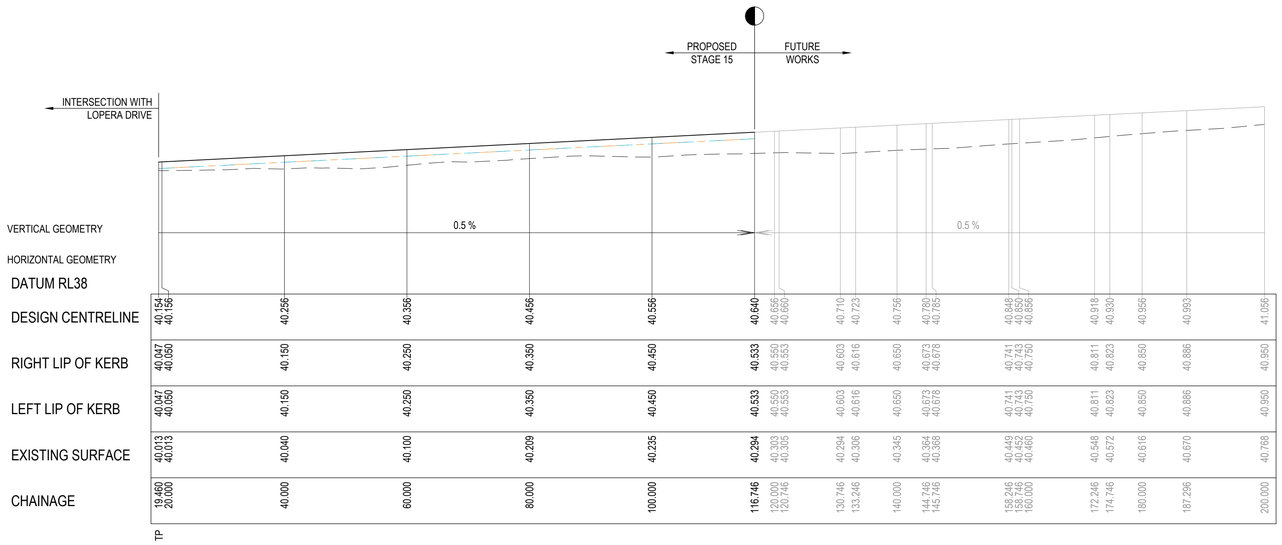
DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	**PROJECT MANAGER**
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R401	B

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE
- EXISTING DESIGN LINE
- LEFT LIP OF KERB
- RIGHT LIP OF KERB

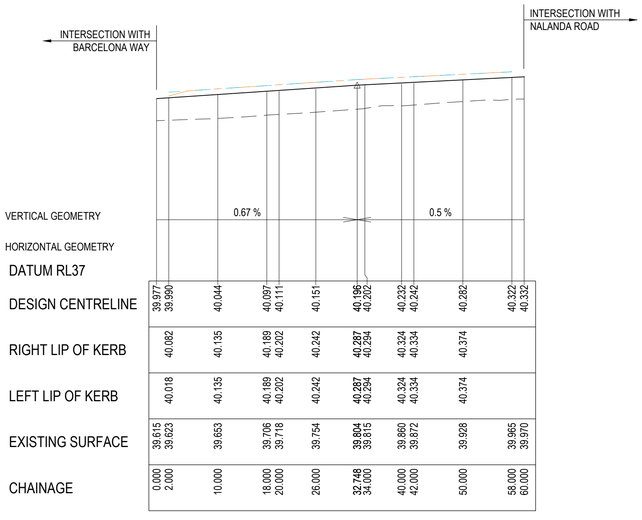
NOTE: REFER TO GENERAL NOTES REGARDING STRUCTURAL FILL



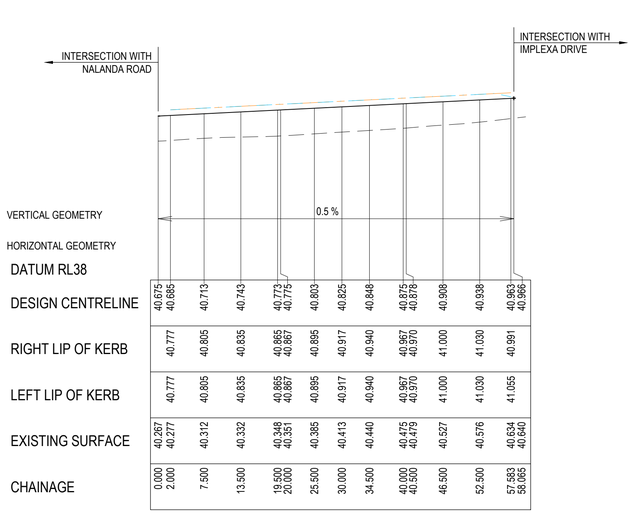
NALANDA ROAD LONGITUDINAL SECTION

Planning and Environment Act 1987
Wyndham Planning Scheme

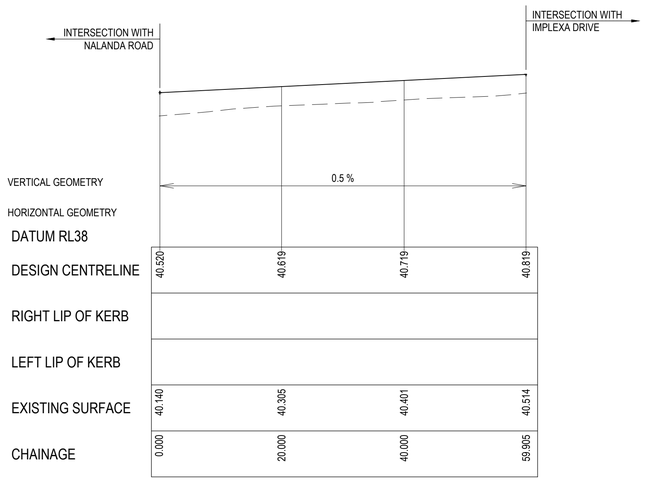
Approved Plan As Required
under Condition 40
Permit No WYP10817/18
Date 13/09/2024



RIMO LANE LONGITUDINAL SECTION



SAMIR LANE LONGITUDINAL SECTION



DARNA WALK LANE LONGITUDINAL SECTION

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15**
ROAD LONGITUDINAL SECTIONS - 3

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:500 (H) 1:50 (V)
H 10 5 0 10 20
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R402	A

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

DIAL 1100 BEFORE YOU DIG

www.1100.com.au

NOTE:
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

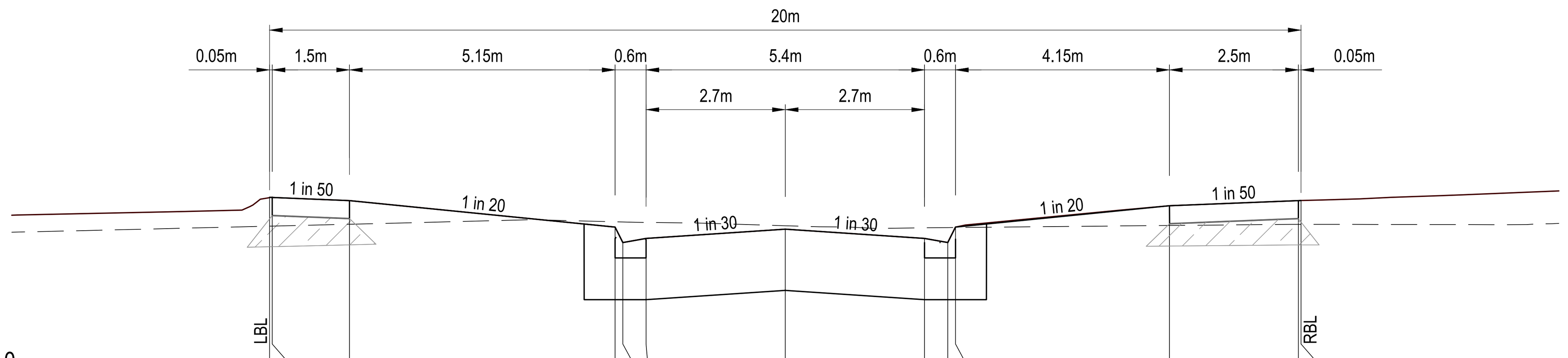
NOTE:
SELECT STRUCTURAL FILL IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS & REQUIREMENTS IS REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- SELECT STRUCTURAL FILL

Planning and Environment Act 1987
Wyndham Planning Scheme

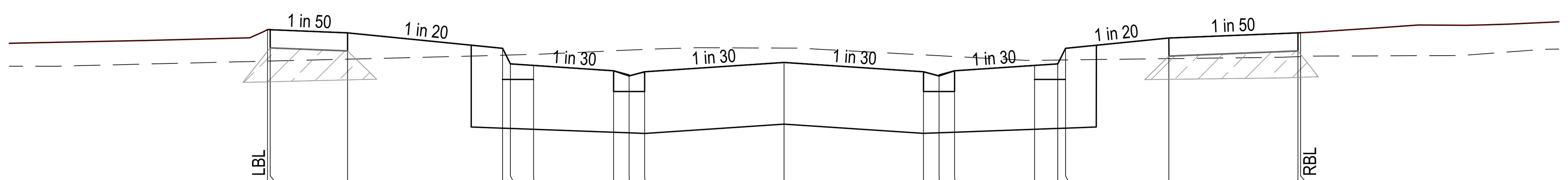
Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024



DATUM39.0

DESIGN SURFACE	40.674 40.673	40.643	40.386 40.236 40.276	40.366	40.276 40.236 40.386	40.593	40.643 40.644
EXISTING SURFACE	40.395 40.395	40.413	40.437 40.435 40.431	40.399	40.378 40.381 40.381	40.401	40.412 40.412
OFFSET	-10.000 -9.950	-8.450	-3.300 -3.150 -2.700	0.000	2.700 3.150 3.300	7.450	9.950 10.000

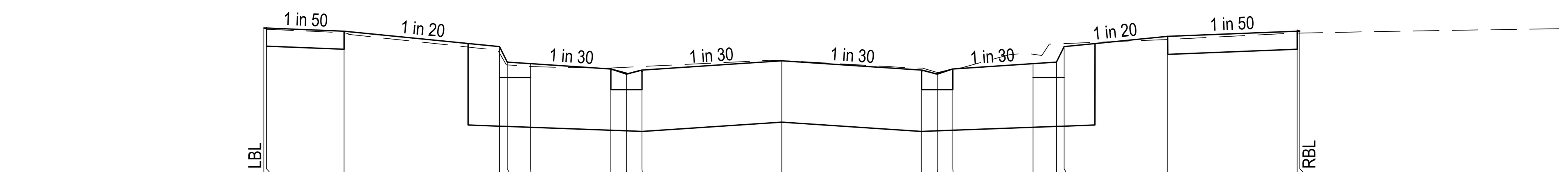
TPCH 61.016



DATUM39.0

DESIGN SURFACE	40.663 40.662	40.632	40.482 40.332 40.317	40.265 40.215 40.255	40.345	40.255 40.215 40.265	40.317 40.332 40.482	40.582	40.632 40.633
EXISTING SURFACE	40.359 40.359	40.377	40.416 40.417 40.423	40.458 40.465 40.472	40.484	40.419 40.411 40.403	40.366 40.369 40.370	40.382	40.401 40.402
OFFSET	-10.000 -9.950	-8.450	-5.450 -5.300 -4.850	-3.300 -3.000 -2.700	0.000	2.700 3.000 3.300	4.850 5.300 5.450	7.450	9.950 10.000

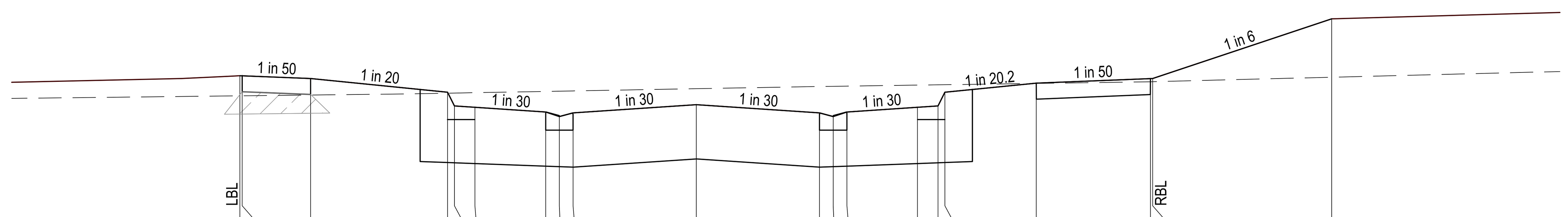
TPCH 57.812



DATUM39.0

DESIGN SURFACE	40.613 40.612	40.582	40.432 40.282 40.267	40.216 40.166 40.206	40.296	40.206 40.166 40.216	40.267 40.282 40.432	40.532	40.582 40.583
EXISTING SURFACE	40.601	40.568	40.370 40.256 40.239	40.226 40.233 40.241	40.296	40.224 40.182 40.217	40.359 40.460 40.463	40.502	40.564 40.564
OFFSET	-10.000 -9.950	-8.450	-5.450 -5.300 -4.850	-3.300 -3.000 -2.700	0.000	2.700 3.000 3.300	4.850 5.300 5.450	7.450	9.950 10.000

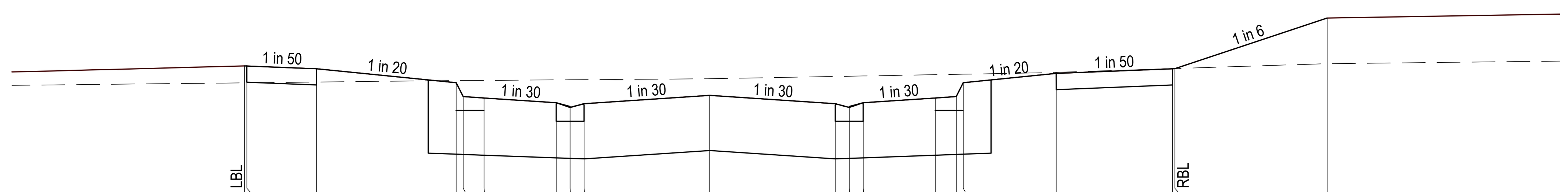
CH 50.000



DATUM39.0

DESIGN SURFACE	40.676 40.675	40.645	40.495 40.345 40.330	40.279 40.229 40.269	40.358	40.269 40.229 40.279	40.330 40.345 40.495	40.594	40.644 40.645	41.299
EXISTING SURFACE	40.456 40.456	40.464	40.484 40.486 40.490	40.504 40.506 40.509	40.534	40.558 40.560 40.562	40.573 40.576 40.577	40.591	40.610 40.610	40.659
OFFSET	-10.000 -9.950	-8.450	-5.450 -5.300 -4.850	-3.300 -3.000 -2.700	0.000	2.700 3.000 3.300	4.846 5.296 5.446	7.450	9.950 10.000	13.922

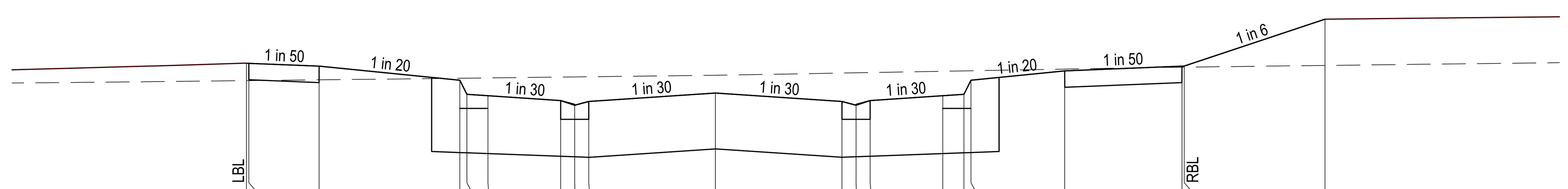
TPCH 141.427



DATUM39.0

DESIGN SURFACE	40.569 40.568	40.538	40.388 40.238 40.223	40.171 40.121 40.161	40.251	40.161 40.121 40.171	40.223 40.238 40.388	40.488	40.538 40.539	41.085
EXISTING SURFACE	40.386 40.387	40.395	40.410 40.411 40.412	40.418 40.419 40.420	40.431	40.455 40.457 40.460	40.474 40.478 40.479	40.499	40.540 40.540	40.593
OFFSET	-10.000 -9.950	-8.450	-5.450 -5.300 -4.850	-3.300 -3.000 -2.700	0.000	2.700 3.000 3.300	4.850 5.300 5.450	7.450	9.950 10.000	13.273

CH 120.000



DATUM39.0

DESIGN SURFACE	40.524 40.523	40.493	40.343 40.193 40.178	40.126 40.076 40.116	40.206	40.116 40.076 40.126	40.178 40.193 40.343	40.443	40.493 40.494	40.994
EXISTING SURFACE	40.339 40.339	40.347	40.364 40.365 40.367	40.376 40.378 40.380	40.396	40.419 40.422 40.425	40.439 40.443 40.444	40.462	40.482 40.482	40.500
OFFSET	-10.000 -9.950	-8.450	-5.450 -5.300 -4.850	-3.300 -3.000 -2.700	0.000	2.700 3.000 3.300	4.850 5.300 5.450	7.450	9.950 10.000	13.000

TPCH 110.974

P:\2020\200282 - ALAMORA, TARNEIT\200282.15\CIVIL\2. DRAFTING\ACAD\ROADS & DRAINAGE\200282.15 - R500 - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE:
ALAMORA - STAGE 15
ROAD CROSS SECTIONS - 1
IMPLEXA DRIVE - 01

STATUS:
ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:100 (H) 1:50 (V)
H 2 1 0 2 4
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	**PROJECT MANAGER**
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R500	A

NOTE:
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

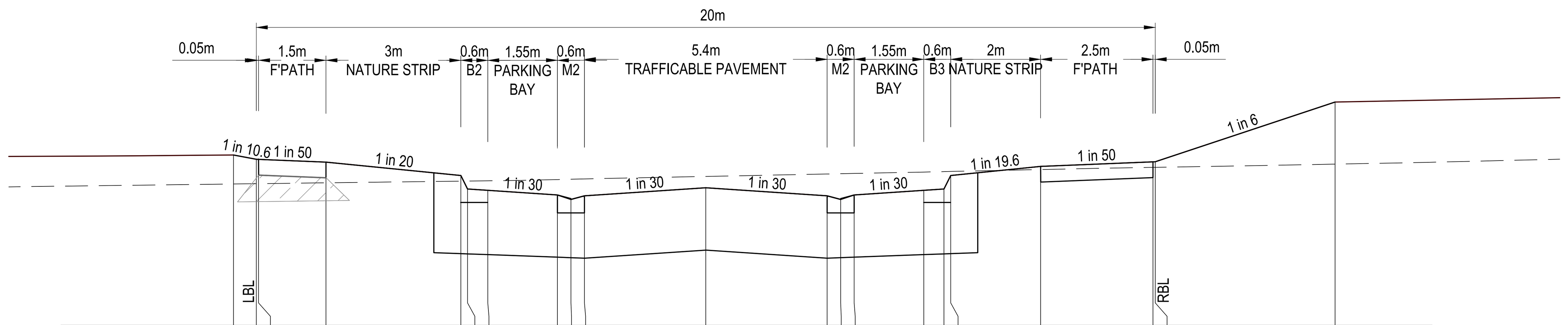
NOTE:
SELECT STRUCTURAL FILL IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS & REQUIREMENTS IS REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND

- – – – EXISTING SURFACE
- ——— DESIGN LINE
- ▨ SELECT STRUCTURAL FILL

Planning and Environment Act 1987
Wyndham Planning Scheme

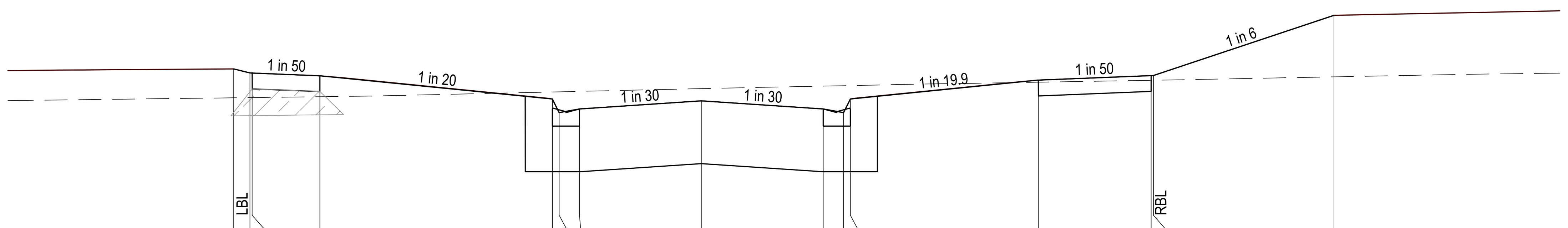
Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024



DATUM39.0

DESIGN SURFACE	40.898	40.850 40.849	40.819	40.669 40.519 40.504	40.453 40.403 40.443	40.533	40.443 40.403 40.453	40.504	40.519 40.669	40.772	40.822 40.823	41.489
EXISTING SURFACE	40.575	40.578 40.579	40.588	40.607 40.608 40.611	40.625 40.628 40.631	40.660	40.687 40.690 40.693	40.708	40.713 40.715	40.736	40.760 40.761	40.797
OFFSET	-10.507	-10.000 -9.950	-8.450	-5.450 -5.300 -4.850	-3.300 -3.000 -2.700	0.000	2.700 3.000 3.300	4.850	5.300 5.450	7.450	9.950 10.000	14.000

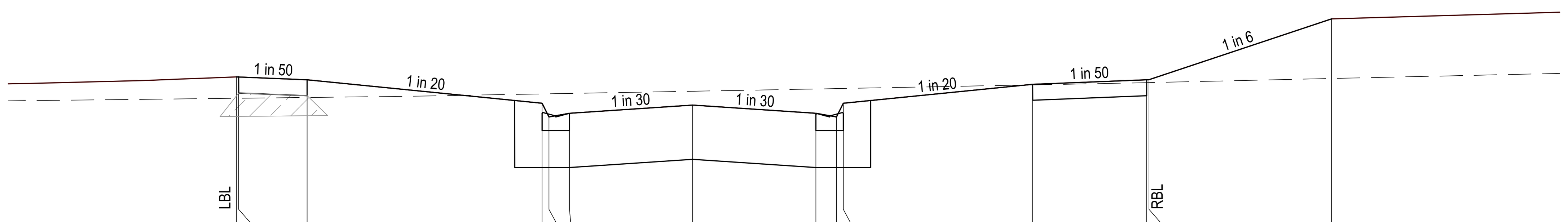
TPCH 176.290



DATUM39.0

DESIGN SURFACE	40.871	40.826 40.825	40.795	40.537 40.387 40.427	40.517	40.427 40.387 40.537	40.746	40.796 40.797	41.464
EXISTING SURFACE	40.551	40.553 40.553	40.563	40.615 40.617 40.622	40.652	40.680 40.685 40.686	40.724	40.745 40.745	40.783
OFFSET	-10.360	-10.000 -9.950	-8.450	-3.300 -3.150 -2.700	0.000	2.700 3.150 3.300	7.464	9.964 10.014	14.014

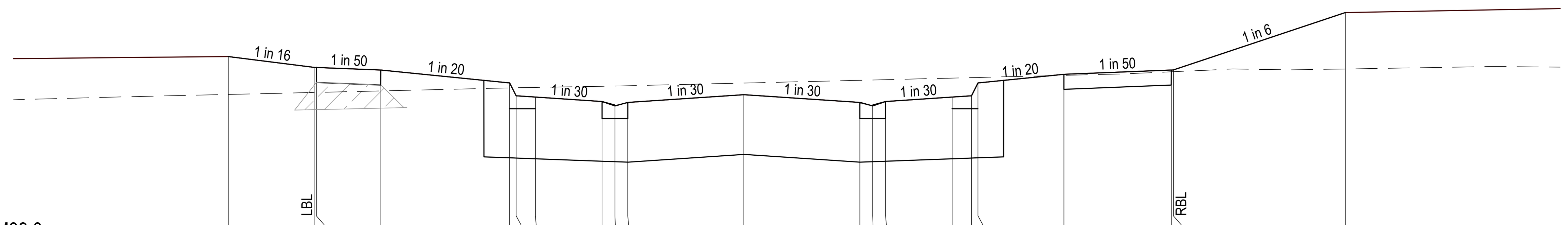
TPCH 173.139



DATUM39.0

DESIGN SURFACE	40.702 40.701	40.671	40.413 40.263 40.303	40.393	40.303 40.263 40.413	40.621	40.671 40.672	41.338
EXISTING SURFACE	40.468 40.468	40.476	40.515 40.517 40.521	40.545	40.569 40.573 40.575	40.614	40.638 40.639	40.684
OFFSET	-10.000 -9.950	-8.450	-3.300 -3.150 -2.700	0.000	2.700 3.150 3.300	7.450	9.950 10.000	14.000

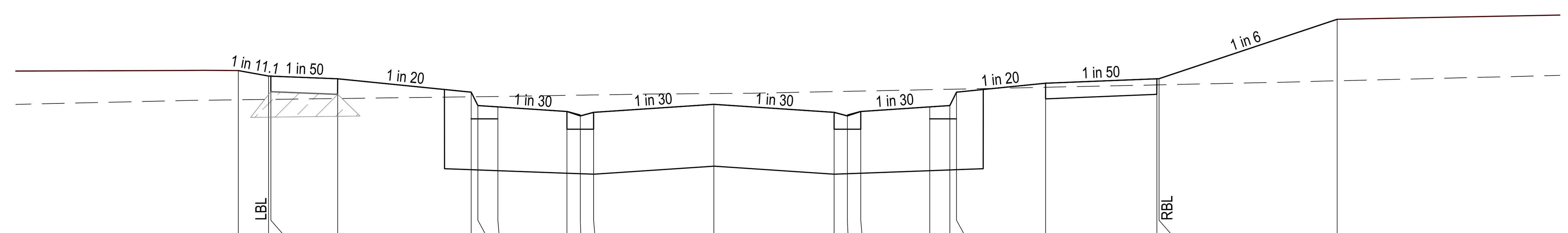
LTPCH 148.337



DATUM39.0

DESIGN SURFACE	41.101	40.976 40.975	40.945	40.795 40.645 40.630	40.578 40.528 40.568	40.658	40.568 40.528 40.578	40.630	40.645 40.795	40.895	40.945 40.946	41.613
EXISTING SURFACE	40.661	40.684 40.685	40.702	40.737 40.739 40.743	40.756 40.758 40.762	40.794	40.825 40.829 40.832	40.851	40.857 40.859	40.883	40.924 40.926	40.957
OFFSET	-12.000	-10.000 -9.950	-8.450	-5.450 -5.300 -4.850	-3.300 -3.000 -2.700	0.000	2.700 3.000 3.300	4.850	5.300 5.450	7.450	9.950 10.000	14.000

CH 201.420



DATUM39.0

DESIGN SURFACE	40.930	40.869 40.868	40.838	40.688 40.538 40.523	40.471 40.421 40.461	40.551	40.461 40.421 40.471	40.523	40.538 40.688	40.788	40.838 40.839	41.506
EXISTING SURFACE	40.602	40.607 40.607	40.617	40.636 40.637 40.639	40.652 40.654 40.657	40.672	40.694 40.697 40.700	40.716	40.720 40.722	40.743	40.769 40.770	40.815
OFFSET	-10.680	-10.000 -9.950	-8.450	-5.450 -5.300 -4.850	-3.300 -3.000 -2.700	0.000	2.700 3.000 3.300	4.850	5.300 5.450	7.450	9.950 10.000	14.000

CH 180.000

P:\2020\200282 - ALAMORA, TARNEIT\200282.15\CIVIL\2. DRAFTING\ACAD\ROADS & DRAINAGE\200282.15 - R500 - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15**
ROAD CROSS SECTIONS - 2
IMPLEXA DRIVE - 02

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:100 (H) 1:50 (V)
H 2 1 0 2 4
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R501	A

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

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DIAL 1100 BEFORE YOU DIG

www.1100.com.au

NOTE:

CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

NOTE:

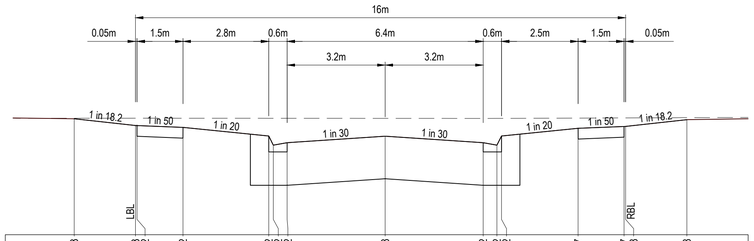
SELECT STRUCTURAL FILL IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS & REQUIREMENTS IS REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- SELECT STRUCTURAL FILL

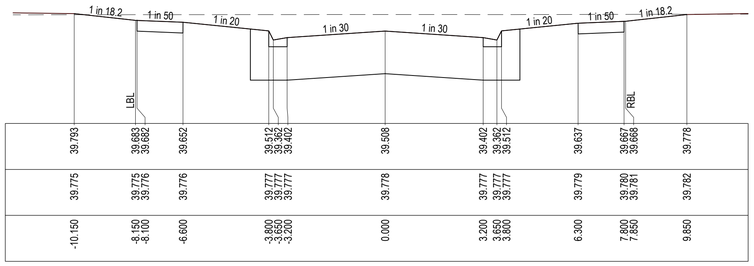
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024



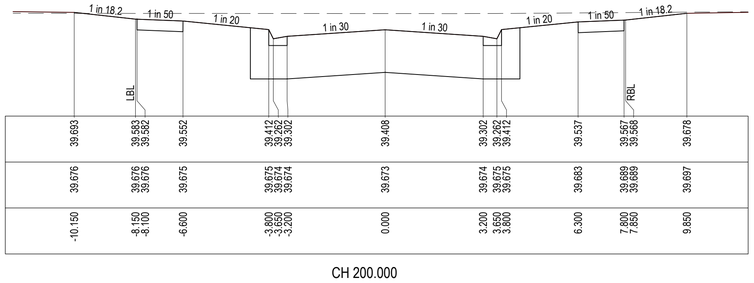
DATUM38.0									
DESIGN SURFACE	39.883	39.782 39.782	39.752	39.612 39.462 39.502	39.608	39.502 39.462 39.612	39.737	39.757 39.768	39.878
EXISTING SURFACE	39.901	39.902 39.902	39.902	39.901 39.900 39.900	39.899	39.898 39.898 39.899	39.904	39.906 39.907	39.910
OFFSET	-10.150	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.850

CH 240.000



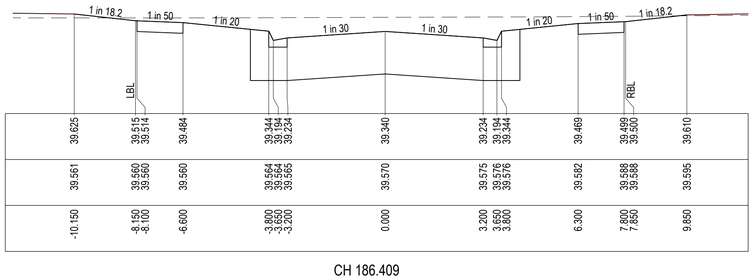
DATUM38.0									
DESIGN SURFACE	39.793	39.682 39.682	39.652	39.512 39.462 39.402	39.608	39.402 39.362 39.512	39.637	39.667 39.668	39.778
EXISTING SURFACE	39.775	39.776 39.776	39.776	39.777 39.777 39.777	39.778	39.777 39.777 39.777	39.779	39.780 39.781	39.782
OFFSET	-10.150	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.850

CH 220.000



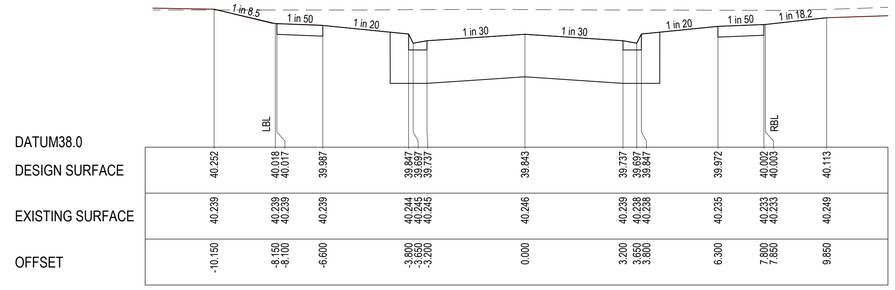
DATUM38.0									
DESIGN SURFACE	39.693	39.582 39.582	39.552	39.412 39.262 39.302	39.408	39.302 39.262 39.412	39.537	39.567 39.568	39.678
EXISTING SURFACE	39.676	39.676 39.676	39.675	39.675 39.674 39.674	39.673	39.674 39.675 39.675	39.683	39.689 39.689	39.697
OFFSET	-10.150	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.850

CH 200.000



DATUM38.0									
DESIGN SURFACE	39.625	39.514 39.514	39.484	39.344 39.194 39.234	39.340	39.234 39.194 39.344	39.469	39.499 39.500	39.610
EXISTING SURFACE	39.561	39.560 39.560	39.560	39.564 39.564 39.565	39.570	39.575 39.576 39.576	39.582	39.588 39.588	39.595
OFFSET	-10.150	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.850

CH 186.409

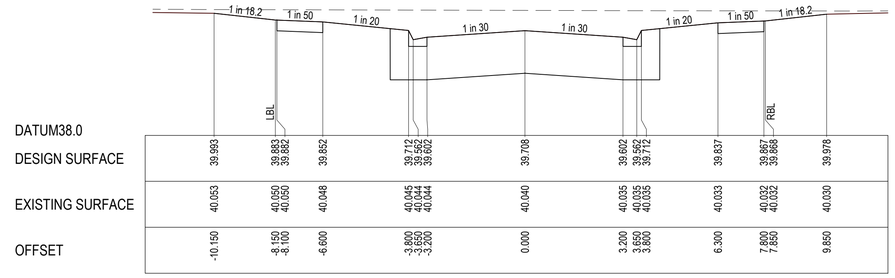


DATUM38.0									
DESIGN SURFACE	40.252	40.017 40.017	39.987	39.847 39.697 39.737	39.843	39.737 39.697 39.847	39.972	40.002 40.003	40.113
EXISTING SURFACE	40.239	40.239 40.239	40.239	40.244 40.245 40.245	40.246	40.239 40.238 40.238	40.235	40.233 40.233	40.249
OFFSET	-10.150	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.850

TPCH 286.982

DATUM38.0									
DESIGN SURFACE	40.171	39.982 39.982	39.952	39.812 39.662 39.702	39.808	39.702 39.662 39.812	39.937	39.967 39.968	40.078
EXISTING SURFACE	40.200	40.197 40.197	40.192	40.183 40.182 40.181	40.176	40.172 40.172 40.171	40.177	40.182 40.182	40.188
OFFSET	-10.150	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.850

CH 280.000



DATUM38.0									
DESIGN SURFACE	39.993	39.882 39.882	39.852	39.712 39.562 39.602	39.708	39.602 39.562 39.712	39.837	39.867 39.868	39.978
EXISTING SURFACE	40.053	40.050 40.050	40.048	40.045 40.044 40.044	40.040	40.035 40.035 40.035	40.033	40.032 40.032	40.030
OFFSET	-10.150	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.850

CH 260.000

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE:
ALAMORA - STAGE 15
ROAD CROSS SECTIONS - 3
PEDRA AVENUE

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:100 (H) 1:50 (V)
H 2 1 0 2 4
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R502	A

P:\200\200282 - ALAMORA, TARNEIT\200282.15\CIVIL\2. DRAFTING\ACAD\ROADS & DRAINAGE\200282.15 - R500 - ROAD CROSS SECTIONS.DWG

WARNING
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DIAL 1100 BEFORE YOU DIG
www.1100.com.au

NOTE:
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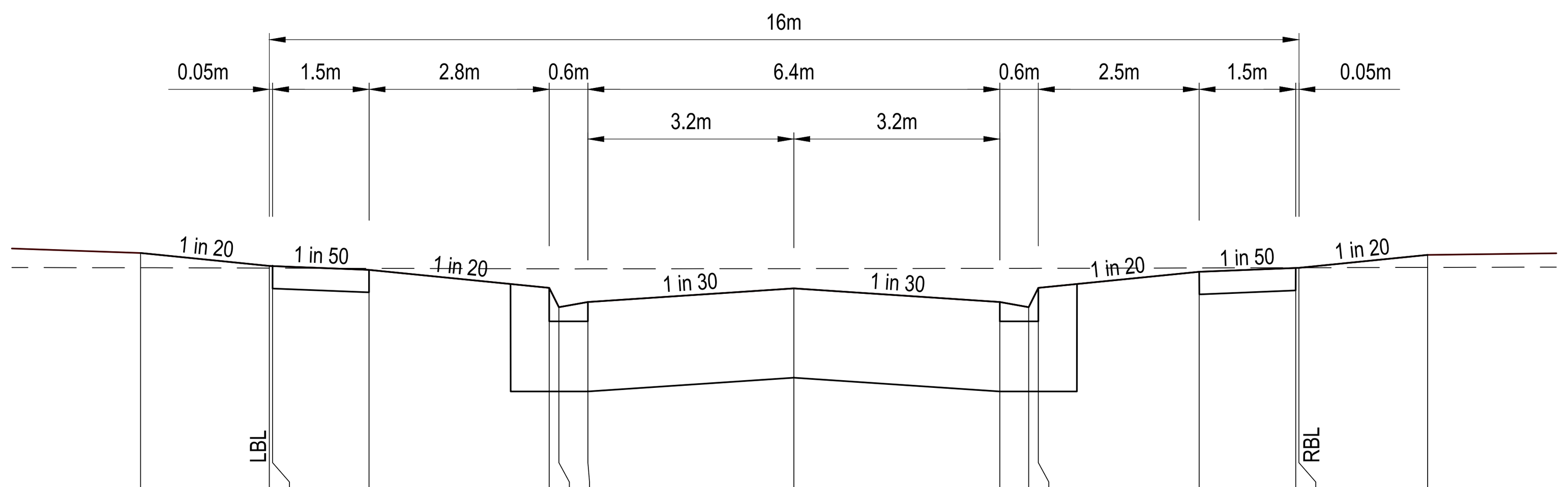
NOTE:
SELECT STRUCTURAL FILL IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS & REQUIREMENTS IS REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND
- EXISTING SURFACE
- DESIGN LINE
- SELECT STRUCTURAL FILL

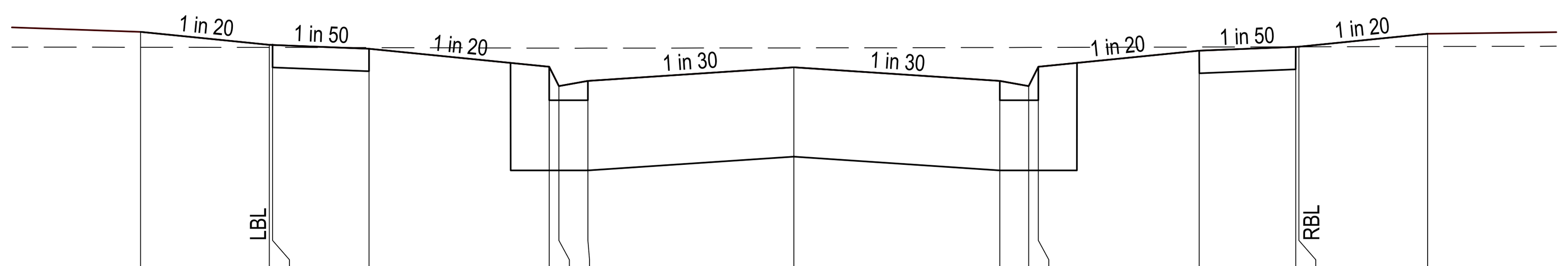
ANDRIA DRIVE SECTION



DATUM39.0

DESIGN SURFACE	40.880	40.780	40.779	40.749	40.609	40.459	40.499	40.605	40.499	40.459	40.609	40.734	40.764	40.765	40.865
EXISTING SURFACE	40.766	40.763	40.763	40.761	40.757	40.757	40.757	40.759	40.761	40.761	40.761	40.764	40.766	40.766	40.768
OFFSET	-10.150	-8.150	-8.100	-6.600	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.300	7.800	7.850	9.850

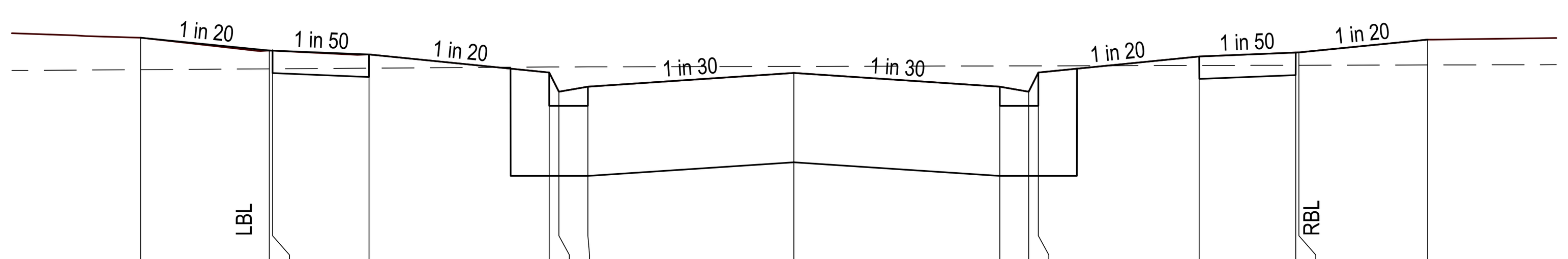
CH 42.000



DATUM39.0

DESIGN SURFACE	40.870	40.770	40.769	40.739	40.599	40.449	40.489	40.596	40.489	40.449	40.599	40.724	40.754	40.755	40.855
EXISTING SURFACE	40.751	40.750	40.750	40.748	40.744	40.744	40.744	40.746	40.749	40.749	40.749	40.752	40.754	40.754	40.756
OFFSET	-10.150	-8.150	-8.100	-6.600	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.300	7.800	7.850	9.850

CH 40.000

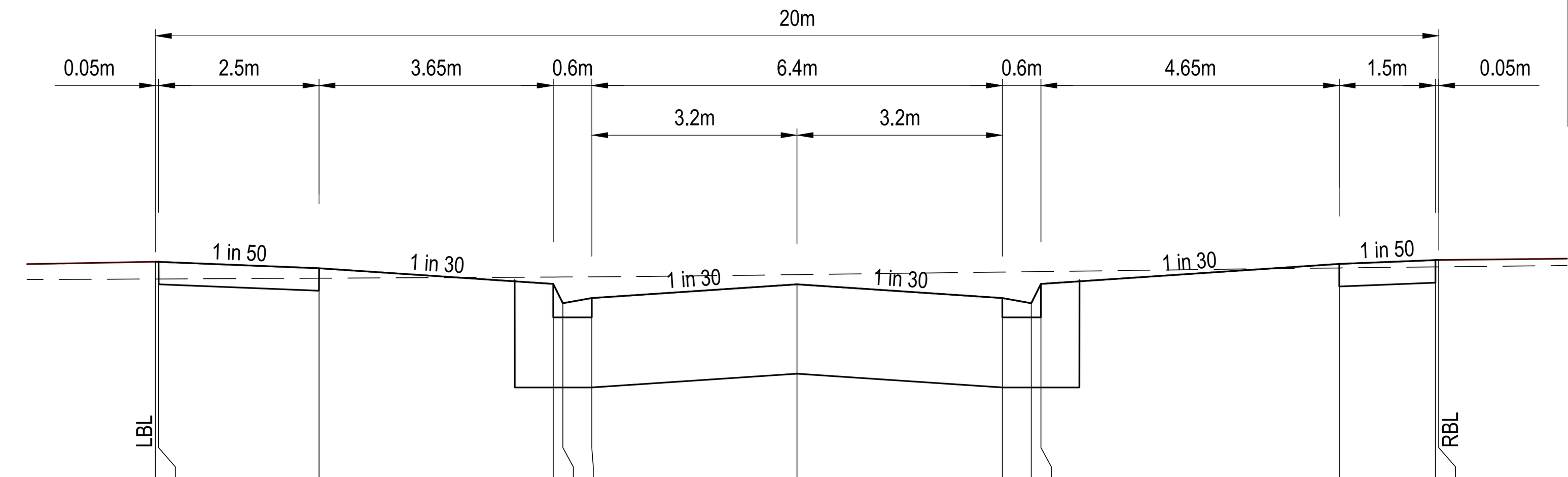


DATUM39.0

DESIGN SURFACE	40.791	40.691	40.690	40.660	40.520	40.370	40.410	40.516	40.410	40.370	40.520	40.645	40.675	40.676	40.776
EXISTING SURFACE	40.542	40.548	40.548	40.553	40.563	40.563	40.564	40.567	40.571	40.571	40.571	40.574	40.576	40.576	40.578
OFFSET	-10.150	-8.150	-8.100	-6.600	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.300	7.800	7.850	9.850

TPCH 24.190

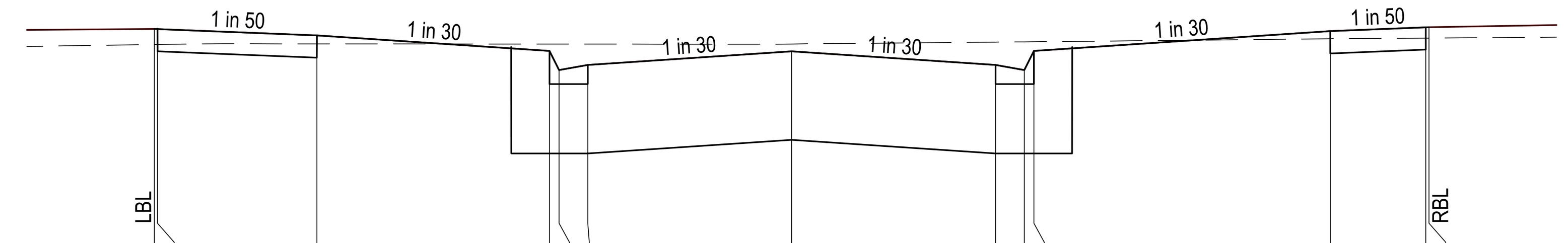
PENZO WAY SECTION



DATUM38.0

DESIGN SURFACE	39.696	39.695	39.645	39.523	39.373	39.413	39.520	39.413	39.373	39.523	39.678	39.708	39.709
EXISTING SURFACE	39.562	39.562	39.568	39.577	39.577	39.578	39.596	39.616	39.618	39.619	39.648	39.656	39.656
OFFSET	-10.000	-9.950	-7.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	8.450	9.950	10.000

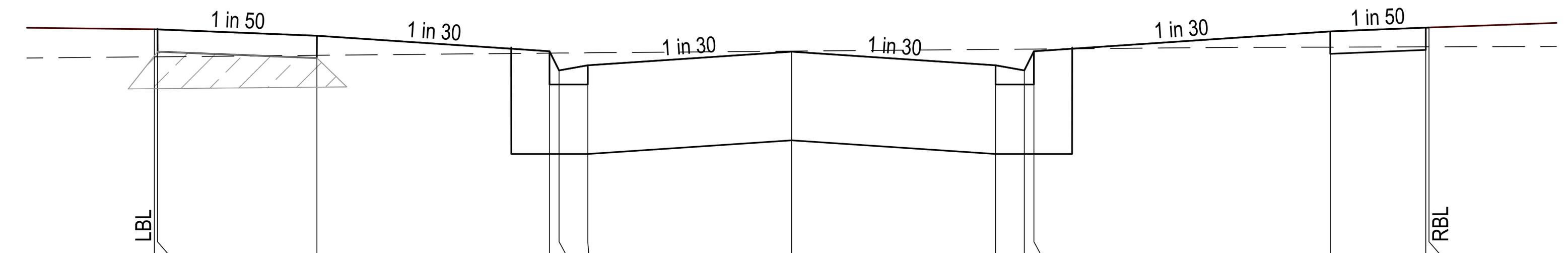
CH 51.366



DATUM38.0

DESIGN SURFACE	39.776	39.775	39.725	39.603	39.453	39.493	39.600	39.493	39.453	39.603	39.758	39.788	39.789
EXISTING SURFACE	39.654	39.654	39.658	39.657	39.657	39.657	39.658	39.672	39.675	39.675	39.699	39.704	39.704
OFFSET	-10.000	-9.950	-7.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	8.450	9.950	10.000

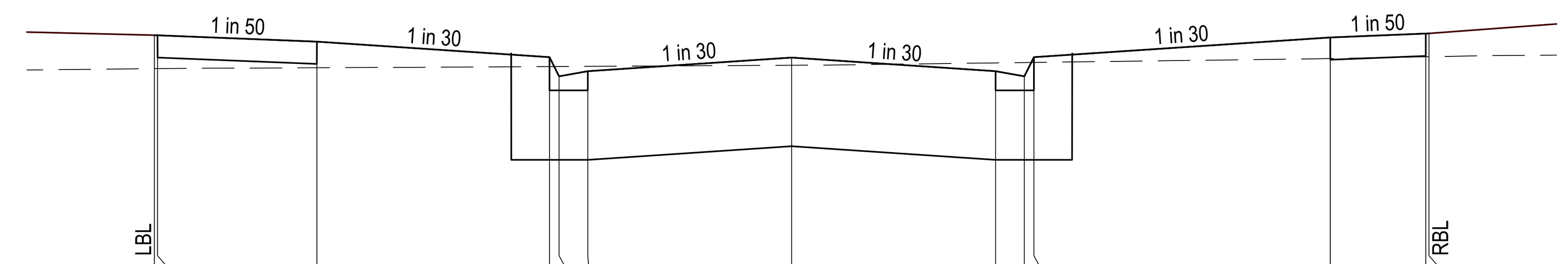
CH 40.000



DATUM38.0

DESIGN SURFACE	39.917	39.916	39.866	39.744	39.594	39.634	39.741	39.634	39.594	39.744	39.899	39.929	39.930
EXISTING SURFACE	39.700	39.701	39.712	39.729	39.730	39.732	39.745	39.759	39.760	39.761	39.776	39.778	39.778
OFFSET	-10.000	-9.950	-7.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	8.450	9.950	10.000

CH 20.000



DATUM38.0

DESIGN SURFACE	39.980	39.979	39.929	39.807	39.657	39.697	39.804	39.697	39.657	39.807	39.962	39.992	39.993
EXISTING SURFACE	39.717	39.717	39.724	39.733	39.734	39.735	39.744	39.762	39.765	39.766	39.796	39.810	39.811
OFFSET	-10.000	-9.950	-7.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	8.450	9.950	10.000

TPCH 11.016

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE
ALAMORA - STAGE 15
ROAD CROSS SECTIONS - 4
ANDRIA DR & PENZO WAY

STATUS
ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:100 (H) 1:50 (V)
H 2 1 0 2 4
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R503	A

P:\2020\200282 - ALAMORA, TARNEIT\200282.15\CIVIL\2. DRAFTING\ACAD\ROADS & DRAINAGE\200282.15 - R500 - ROAD CROSS SECTIONS.DWG

WARNING

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DIAL 1100 BEFORE YOU DIG

www.1100.com.au

NOTE:
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NOTE:
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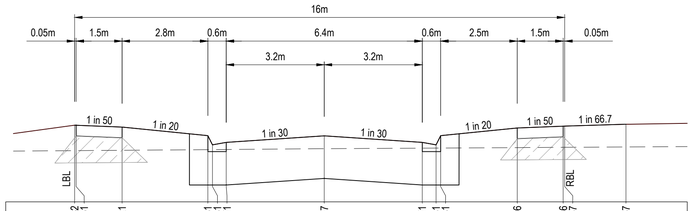
LEGEND

- EXISTING SURFACE
- DESIGN LINE
- SELECT STRUCTURAL FILL

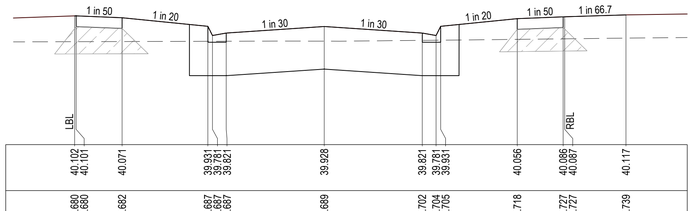
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024



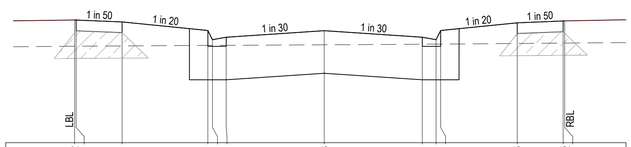
DATUM39.0								
DESIGN SURFACE	40.252 40.251	40.221	40.081 39.951 39.971	40.077	39.971 39.951 40.081	40.206	40.236 40.237	40.267
EXISTING SURFACE	39.836 39.836	39.842	39.852 39.853 39.855	39.868	39.877 39.878 39.878	39.885	39.890 39.890	39.896
OFFSET	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.850

LTPCH 209.892



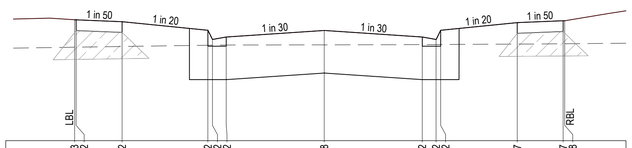
DATUM38.0								
DESIGN SURFACE	40.102 40.101	40.071	39.931 39.781 39.821	39.928	39.821 39.781 39.951	40.056	40.086 40.087	40.117
EXISTING SURFACE	39.680 39.680	39.682	39.687 39.687 39.687	39.699	39.702 39.704 39.705	39.718	39.727 39.727	39.739
OFFSET	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.850

CH 180.000



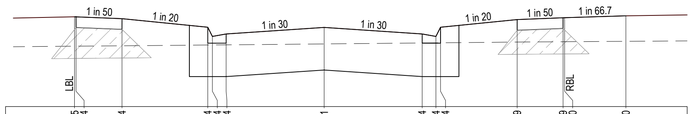
DATUM38.0								
DESIGN SURFACE	40.002 40.001	39.971	39.831 39.681 39.721	39.828	39.721 39.681 39.831	39.956	39.986 39.987	
EXISTING SURFACE	39.574 39.574	39.579	39.587 39.587 39.589	39.597	39.607 39.608 39.609	39.619	39.625 39.626	
OFFSET	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	

CH 160.000



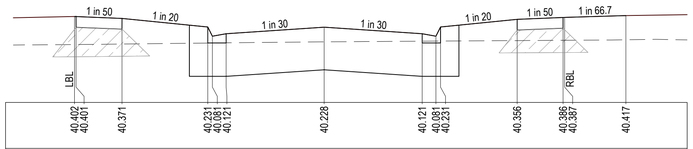
DATUM38.0								
DESIGN SURFACE	39.973 39.972	39.942	39.802 39.652 39.692	39.798	39.692 39.652 39.802	39.927	39.957 39.958	
EXISTING SURFACE	39.525 39.525	39.537	39.557 39.558 39.560	39.564	39.568 39.569 39.569	39.576	39.581 39.582	
OFFSET	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	

CH 154.092



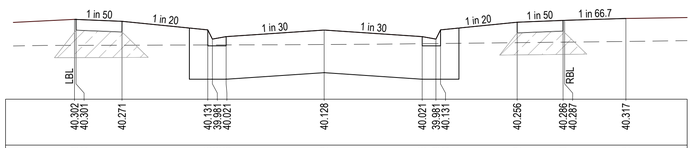
DATUM39.0								
DESIGN SURFACE	40.465 40.464	40.434	40.234 40.184 40.184	40.291	40.184 40.144 40.294	40.419	40.449 40.450	40.480
EXISTING SURFACE	39.985 39.985	39.992	40.004 40.005 40.006	40.022	40.037 40.039 40.040	40.052	40.058 40.058	40.064
OFFSET	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.850

CH 252.592



DATUM39.0								
DESIGN SURFACE	40.402 40.401	40.371	40.231 40.081 40.121	40.228	40.121 40.081 40.231	40.356	40.386 40.387	40.417
EXISTING SURFACE	39.945 39.945	39.953	39.969 39.970 39.972	39.988	39.999 40.001 40.001	40.009	40.014 40.014	40.022
OFFSET	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.650

CH 240.000



DATUM39.0								
DESIGN SURFACE	40.302 40.301	40.271	40.131 39.981 40.021	40.128	40.021 39.981 40.131	40.296	40.286 40.287	40.317
EXISTING SURFACE	39.878 39.879	39.881	39.885 39.886 39.886	39.892	39.905 39.908 39.909	39.922	39.930 39.931	39.942
OFFSET	-8.150 -8.100	-6.600	-3.800 -3.650 -3.200	0.000	3.200 3.650 3.800	6.300	7.800 7.850	9.650

CH 220.000

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: ALAMORA - STAGE 15
ROAD CROSS SECTIONS - 5
BARCELONA WAY

STATUS: ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:100 (H) 1:50 (V)
H 2 1 0 2 4
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T
PROJECT No.	DRAWING No. / REVISION
200282.15	R504 / A

P:\200\200282 - ALAMORA, TARNEIT\200282.15\CIVIL\2. DRAFTING\ACAD\ROADS & DRAINAGE\200282.15 - R500 - ROAD CROSS SECTIONS.DWG

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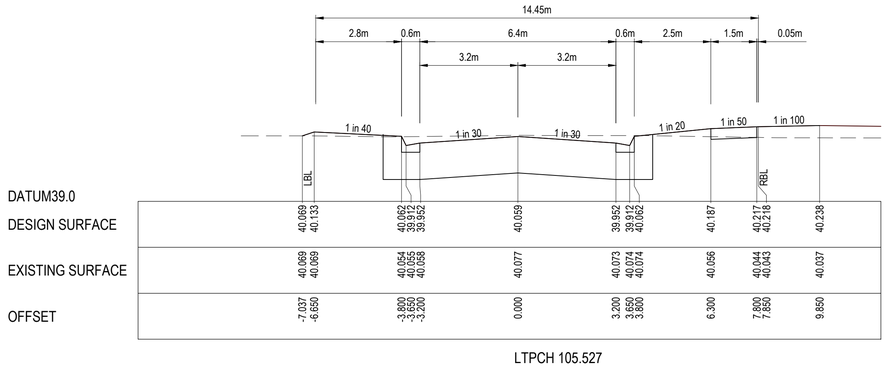
LEGEND

- EXISTING SURFACE
- DESIGN LINE
- SELECT STRUCTURAL FILL

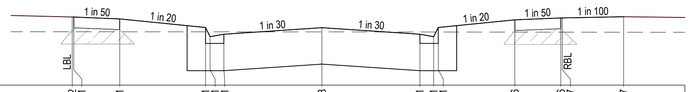
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024



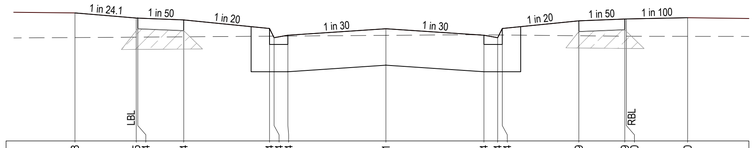
DATUM39.0									
DESIGN SURFACE	40.069	40.133	40.062	39.912	39.952	40.059	39.952	40.062	40.187	40.217	40.218	40.238
EXISTING SURFACE	40.069	40.069	40.054	40.055	40.058	40.077	40.073	40.074	40.074	40.056	40.044	40.043	40.037
OFFSET	-7.037	-6.650	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.300	7.800	7.850	9.850

LTPCH 105.527



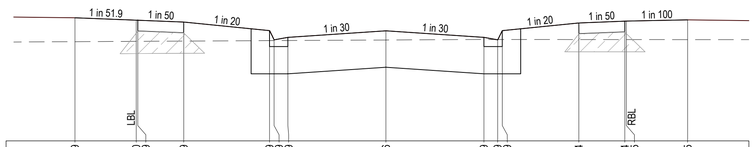
DATUM39.0									
DESIGN SURFACE	40.112	40.111	40.081	39.941	39.791	39.851	39.938	39.831	39.791	39.941	40.066	40.096	40.097	40.117
EXISTING SURFACE	39.871	39.871	39.871	39.870	39.870	39.870	39.869	39.868	39.867	39.867	39.866	39.865	39.865	39.864
OFFSET	-8.150	-8.100	-6.600	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.300	7.800	7.850	9.850

LTPCH 81.369



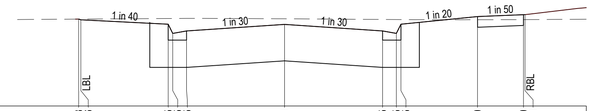
DATUM38.0									
DESIGN SURFACE	40.088	40.005	40.004	39.974	39.834	39.684	39.724	39.831	39.724	39.684	39.834	39.959	39.999	39.999	40.010
EXISTING SURFACE	39.686	39.693	39.693	39.699	39.709	39.709	39.711	39.723	39.731	39.720	39.728	39.716	39.709	39.709	39.706
OFFSET	-10.150	-8.150	-8.100	-6.600	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.300	7.800	7.850	9.850

CH 60.000



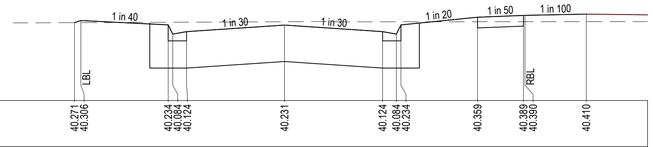
DATUM38.0									
DESIGN SURFACE	40.009	39.970	39.969	39.939	39.799	39.649	39.669	39.796	39.689	39.649	39.799	39.924	39.954	39.955	39.975
EXISTING SURFACE	39.619	39.624	39.624	39.628	39.636	39.636	39.638	39.646	39.654	39.654	39.654	39.653	39.653	39.653	39.652
OFFSET	-10.150	-8.150	-8.100	-6.600	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.300	7.800	7.850	9.850

CH 52.937



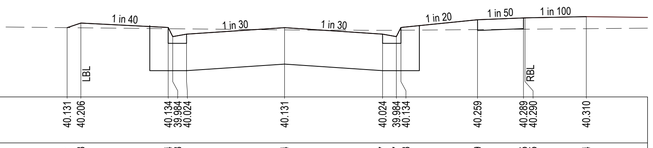
DATUM39.0									
DESIGN SURFACE	40.418	40.406	40.335	40.185	40.225	40.331	40.225	40.185	40.335	40.460	40.490	40.491
EXISTING SURFACE	40.418	40.418	40.427	40.428	40.429	40.423	40.412	40.410	40.410	40.407	40.409	40.409
OFFSET	-6.721	-6.650	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.300	7.800	7.850

TPCH 160.064



DATUM39.0									
DESIGN SURFACE	40.271	40.306	40.224	40.084	40.124	40.231	40.124	40.084	40.234	40.359	40.389	40.390	40.410
EXISTING SURFACE	40.271	40.271	40.277	40.278	40.279	40.286	40.285	40.285	40.285	40.286	40.286	40.286	40.287
OFFSET	-6.657	-6.650	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.300	7.800	7.850	9.850

CH 140.000



DATUM39.0									
DESIGN SURFACE	40.131	40.206	40.134	39.984	40.024	40.131	40.024	39.984	40.134	40.259	40.289	40.290	40.310
EXISTING SURFACE	40.131	40.128	40.114	40.113	40.111	40.094	40.087	40.087	40.086	40.099	40.105	40.105	40.114
OFFSET	-7.100	-6.650	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.300	7.800	7.850	9.850

CH 120.000

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15**
ROAD CROSS SECTIONS - 6
LOPERA DRIVE

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:100 (H) 1:50 (V)
H 2 1 0 2 4
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T
PROJECT No.	DRAWING No.	REVISION
200282.15	R505	A

P:\200\200282 - ALAMORA, TARNEIT\200282.15\CIVIL\2. DRAFTING\AUTOCAD\DRAWS & DRAINAGE\200282.15 - R500 - ROAD CROSS SECTIONS.DWG

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

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DIAL 1100 BEFORE YOU DIG

www.1100.com.au

NOTE:

CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

NOTE:

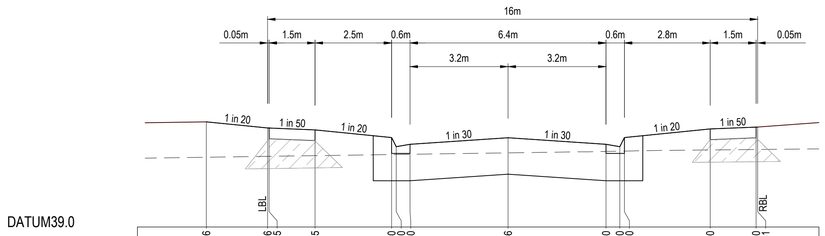
SELECT STRUCTURAL FILL IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS & REQUIREMENTS IS REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND

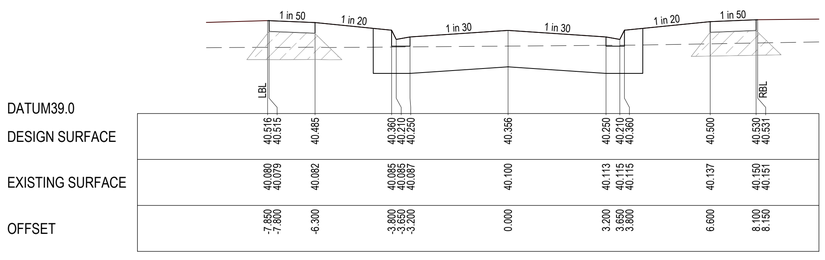
- EXISTING SURFACE
- DESIGN LINE
- SELECT STRUCTURAL FILL

Planning and Environment Act 1987
Wyndham Planning Scheme

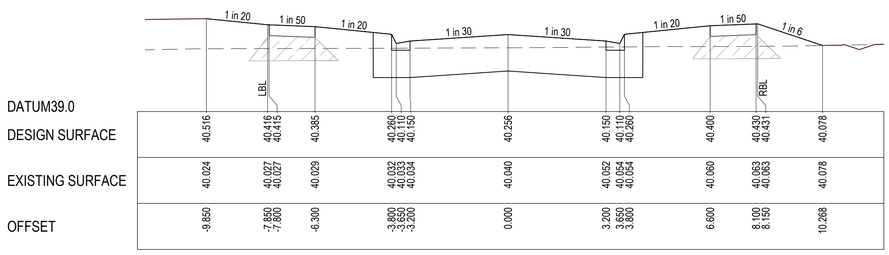
Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024



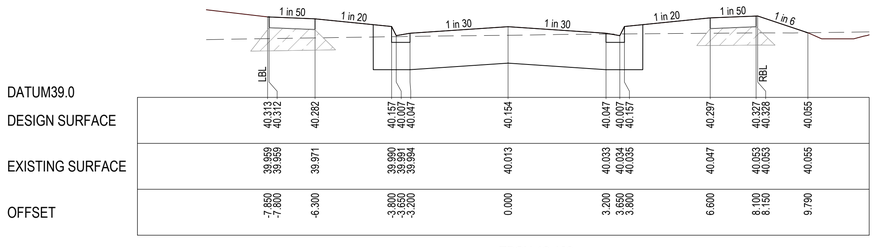
CH 80.000



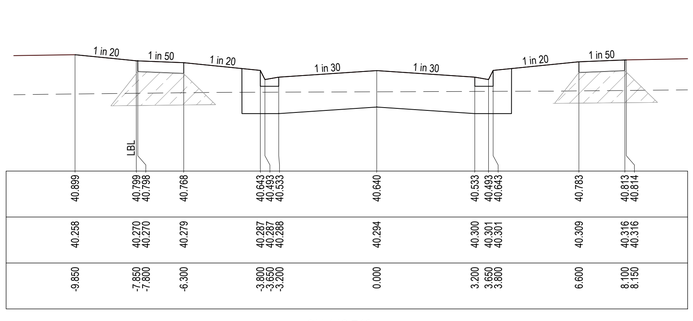
CH 60.000



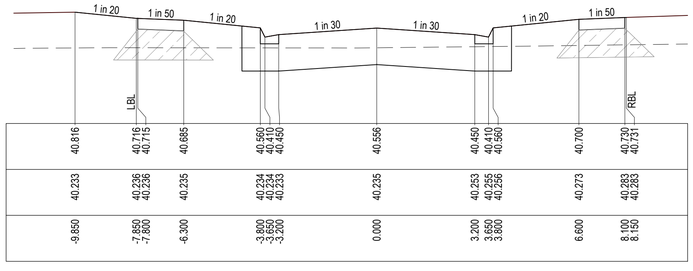
CH 40.000



TPCH 19.460



CH 116.746



CH 100.000

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15**
ROAD CROSS SECTIONS - 7
NALANDA ROAD

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:100 (H) 1:50 (V)
H 2 1 0 2 4
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T
PROJECT No.	DRAWING No.	REVISION
200282.15	R506	A

P:\200\200282 - ALAMORA, TARNEIT\200282.15\CIVIL\2. DRAFTING\AUTOCAD\ROADS & DRAINAGE\200282.15 - R500 - ROAD CROSS SECTIONS.DWG

WARNING

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DIAL 1100 BEFORE YOU DIG

www.1100.com.au

NOTE:

CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

NOTE:

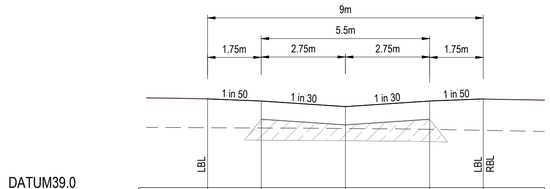
SELECT STRUCTURAL FILL IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS & REQUIREMENTS IS REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- SELECT STRUCTURAL FILL

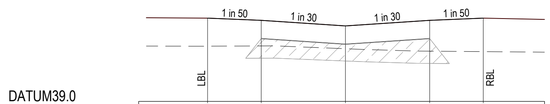
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40 Permit No WYP10817/18 Date 13/09/2024



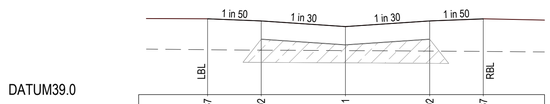
DATUM39.0					
DESIGN SURFACE	40.449	40.414	40.322	40.414	40.449
EXISTING SURFACE	39.978	39.973	39.965	39.951	39.935
OFFSET	-4.500	-2.750	0.000	2.750	4.500

CH 58.000



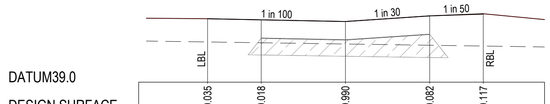
DATUM39.0					
DESIGN SURFACE	40.359	40.324	40.232	40.324	40.359
EXISTING SURFACE	39.902	39.905	39.860	39.820	39.813
OFFSET	-4.500	-2.750	0.000	2.750	4.500

CH 40.000



DATUM39.0					
DESIGN SURFACE	40.237	40.202	40.111	40.202	40.237
EXISTING SURFACE	39.733	39.725	39.718	39.710	39.705
OFFSET	-4.500	-2.750	0.000	2.750	4.500

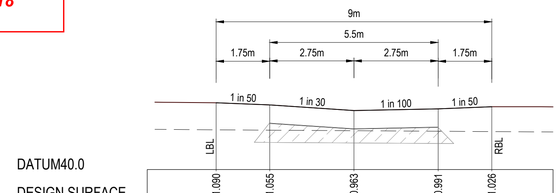
CH 20.000



DATUM39.0					
DESIGN SURFACE	40.035	40.018	39.990	40.082	40.117
EXISTING SURFACE	39.656	39.643	39.623	39.603	39.590
OFFSET	-4.500	-2.750	0.000	2.750	4.500

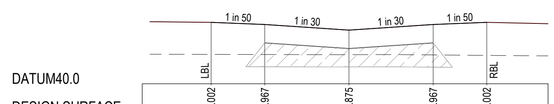
CH 2.000

RIMO LANE SECTION



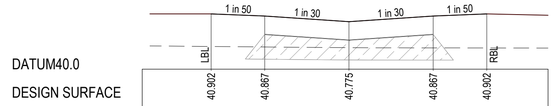
DATUM40.0					
DESIGN SURFACE	41.090	41.055	40.963	40.991	41.026
EXISTING SURFACE	40.648	40.643	40.634	40.625	40.620
OFFSET	-4.500	-2.750	0.000	2.750	4.500

CH 57.583



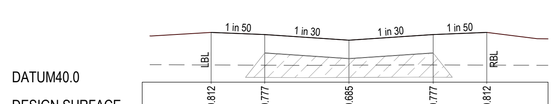
DATUM40.0					
DESIGN SURFACE	41.002	40.967	40.875	40.967	41.002
EXISTING SURFACE	40.479	40.477	40.475	40.471	40.463
OFFSET	-4.500	-2.750	0.000	2.750	4.500

CH 40.000



DATUM40.0					
DESIGN SURFACE	40.902	40.867	40.775	40.867	40.902
EXISTING SURFACE	40.371	40.362	40.351	40.348	40.346
OFFSET	-4.500	-2.750	0.000	2.750	4.500

CH 20.000



DATUM40.0					
DESIGN SURFACE	40.812	40.777	40.885	40.777	40.812
EXISTING SURFACE	40.281	40.277	40.277	40.281	40.278
OFFSET	-4.500	-2.750	0.000	2.750	4.500

CH 2.000

SAMIR LANE SECTION

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: ALAMORA - STAGE 15
ROAD CROSS SECTIONS - 8
RIMO & SAMIR LANE

STATUS: ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:100 (H) 1:50 (V)
H 2 1 0 2 4
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R507	A

P:\2020\200282 - ALAMORA, TARNEIT\200282_15CIVIL\2. DRAFTING\AUTOCAD\ROADS & DRAINAGE\200282.15 - R500 - ROAD CROSS SECTIONS.DWG

WARNING
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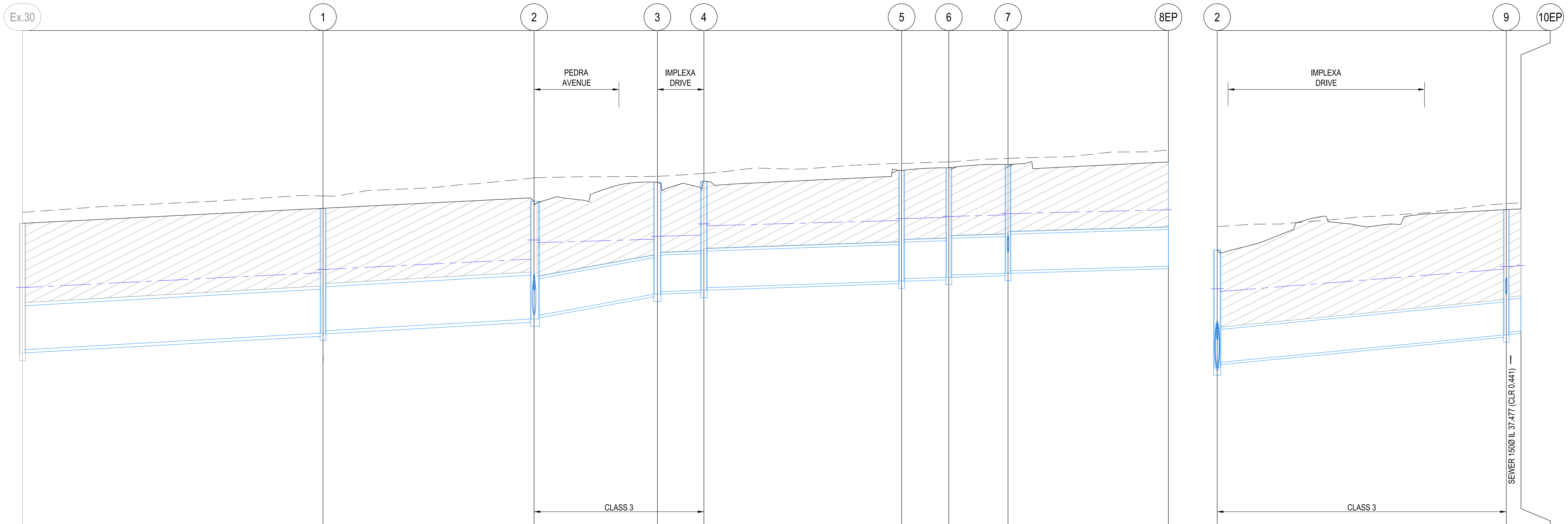
www.1100.com.au

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- HYDRUALIC GRADE LINE
- CRUSHED ROCK BACKFILL
- PROPOSED SEWER MAIN

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 40
Permit No WYP10817/18
Date 13/09/2024



DATUM 31.0

Reach	DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	GRADE	(Reach Length)
Ex.30 – 1	1.270	1.343	2.11	900Ø	1 in 182	(61.600)
1 – 2	1.261	1.343	2.11	900Ø	1 in 182	(43.255)
2 – 3	0.587	1.463	3.31	750Ø	1 in 57.9	(25.269)
3 – 4	0.585	0.643	1.46	750Ø	1 in 300	(9.525)
4 – 5	0.575	0.643	1.46	750Ø	1 in 300	(40.523)
5 – 6	0.553	0.595	1.35	750Ø	1 in 350	(9.673)
6 – 7	0.555	0.595	1.35	750Ø	1 in 350	(12.132)
7 – 8EP	0.550	0.595	1.35	750Ø	1 in 350	(32.876)

Pit	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE
Ex.30	2.664 / 2.589	38.033	36.684 / 36.759	39.348	39.572	0.000
1	2.559 / 2.509	38.336 / 38.405	37.097 / 37.147	39.656	39.910	61.600
2	2.414 / 2.339	38.614 / 39.007 38.952	37.385 / 37.460	39.800	40.282	104.855
3	2.294 / 2.244	39.022 / 39.082	37.896 / 37.946	40.191	40.310	130.124
4	2.232 / 2.182	39.108 / 39.338 39.298	37.978 / 38.028	40.210	40.370	139.649
5	2.268 / 2.218	39.406 / 39.446	38.163 / 38.213	40.432	40.574	180.172
6	2.245 / 2.195	39.470 / 39.490	38.241 / 38.291	40.485	40.605	189.845
7	2.226 / 2.176	39.520 / 39.546	38.326 / 38.376	40.552	40.677	201.977
8EP	2.136	39.626	38.469	40.606	40.849	234.853

DATUM 32.0

Reach	DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	GRADE	(Reach Length)
2 – 9	0.739	0.820	2.29	675Ø	1 in 105	(59.247)
9 – 10EP	0.704	0.841	2.35	675Ø	1 in 100	(3.000)

Pit	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE
2	2.414 / 2.302	38.614 / 39.007 38.952	37.385 / 37.498	39.800	40.282	0.000
9	2.568 / 2.518	39.410 / 39.462	38.061 / 38.111	40.629	40.750	59.247
10EP	2.503	39.483	38.141	40.644	40.768	62.247

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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15**
DRAINAGE LONG SECTIONS - 1

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:500 (H) 1:50 (V)
H 10 5 0 10 20
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER	DRAWN	PROJECT MANAGER	PROJECT No.	DRAWING No.	REVISION
S.M	S.M	S.M	M.T	200282.15	R600	A

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024

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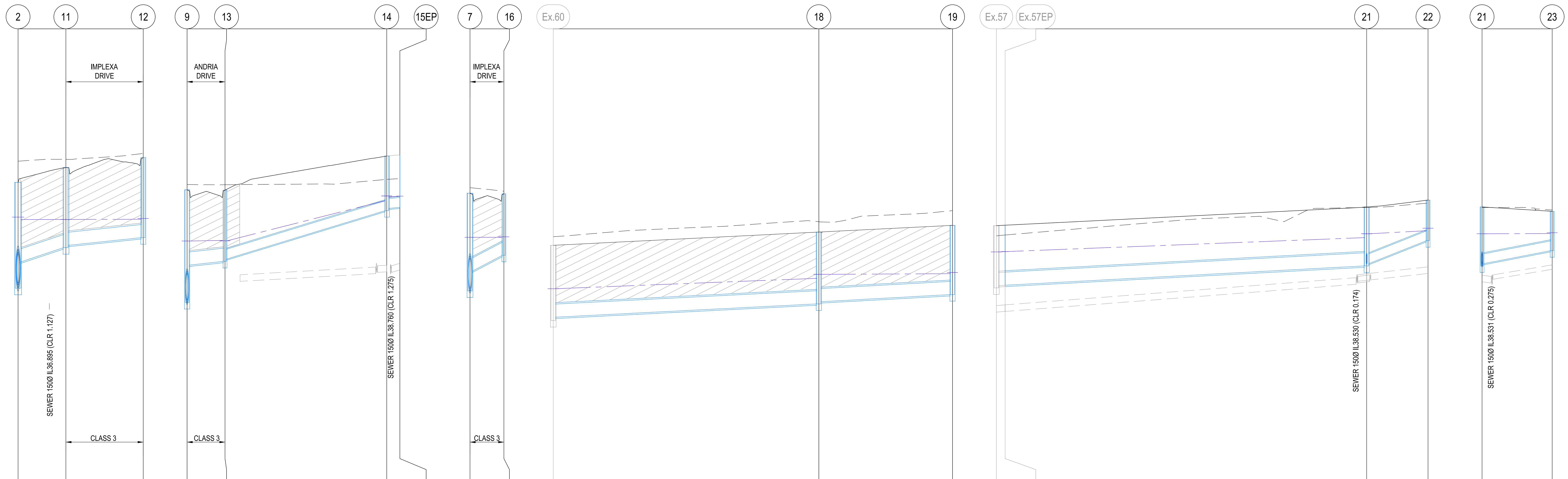
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

LEGEND

Symbol	Description
— — — —	EXISTING SURFACE
————	DESIGN SURFACE
———— (blue)	DRAINAGE PIPE/PIT
—— – ——	HYDRUALIC GRADE LINE
(hatched)	CRUSHED ROCK BACKFILL
— — — — (grey)	PROPOSED SEWER MAIN



Pits 2 – 11 – 12 (DATUM 31.0)

	2–11	11–12
DESIGN FLOW (m3/s)	0.013	0.014
CAPACITY (m3/s)	0.168	0.097
AT GRADE VELOCITY (m/s)	2.37	1.37
PIPE SIZE (mm)	300Ø	300Ø
GRADE	1 in 33.3	1 in 100

DEPTH TO INVERT	2.414	1.814	1.826	1.776	1.825	
HYDRAULIC GRADE LINE	38.614	39.007 / 38.952	38.954		38.958	38.976
INVERT LEVEL	37.385	37.985	38.312	38.362	38.539	
FINISHED SURFACE LEVELS	39.800		40.138		40.364	
EXISTING SURFACE LEVEL	40.282		40.323		40.458	
CHAINAGE (Reach Length)	0.000	(10.905)	10.905	(17.659)	28.564	

Pits 9 – 13 – 14 – 15EP (DATUM 32.0)

	9–13	13–14	14–15EP
DESIGN FLOW (m3/s)	0.039	0.036	0.036
CAPACITY (m3/s)	0.097	0.078	0.040
AT GRADE VELOCITY (m/s)	1.37	1.96	1.01
PIPE SIZE (mm)	300Ø	225Ø	225Ø
GRADE	1 in 100	1 in 33.3	1 in 125

DEPTH TO INVERT	2.568	1.717	1.623	1.573	1.244	1.194	1.192
HYDRAULIC GRADE LINE	39.410	39.462	39.476	39.466	40.381	40.490 / 40.466	40.485
INVERT LEVEL	38.061	38.912	38.999	39.049	40.156	40.206	40.230
FINISHED SURFACE LEVELS	40.629		40.621		41.400		41.421
EXISTING SURFACE LEVEL	40.750		40.745		40.867		40.885
CHAINAGE (Reach Length)	0.000	(8.654)	8.654	(36.900)	45.554	(3.000)	48.554

Pits 7 – 16 (DATUM 32.0)

	7–16
DESIGN FLOW (m3/s)	0.010
CAPACITY (m3/s)	0.209
AT GRADE VELOCITY (m/s)	2.96
PIPE SIZE (mm)	300Ø
GRADE	1 in 21.4

DEPTH TO INVERT	2.226	1.776	1.401	
HYDRAULIC GRADE LINE	39.520	39.546	39.547	39.557
INVERT LEVEL	38.326	38.776	39.137	
FINISHED SURFACE LEVELS	40.552		40.539	
EXISTING SURFACE LEVEL	40.677		40.597	
CHAINAGE (Reach Length)	0.000	(7.729)	7.729	

Pits Ex.60 – 18 – 19 (DATUM 32.0)

	Ex.60–18	18–19
DESIGN FLOW (m3/s)	0.061	0.021
CAPACITY (m3/s)	0.068	0.071
AT GRADE VELOCITY (m/s)	0.97	1
PIPE SIZE (mm)	300Ø	300Ø
GRADE	1 in 200	1 in 187

DEPTH TO INVERT	1.713	1.638	1.638	1.588	1.578	
HYDRAULIC GRADE LINE	38.374		38.611	38.702	38.716	38.745
INVERT LEVEL	37.650	37.725	38.028	38.078	38.241	
FINISHED SURFACE LEVELS	39.363		39.666		39.819	
EXISTING SURFACE LEVEL	39.559		39.901		40.154	
CHAINAGE (Reach Length)	0.000	(60.600)	60.600	(30.500)	91.100	

Pits Ex.57 – Ex.57EP – 21 – 22 (DATUM 32.0)

	Ex.57–Ex.57EP	Ex.57EP–21	21–22
DESIGN FLOW (m3/s)	0.058	0.060	0.014
CAPACITY (m3/s)	0.071	0.071	0.087
AT GRADE VELOCITY (m/s)	1	1	2.19
PIPE SIZE (mm)	300Ø	300Ø	225Ø
GRADE	1 in 187	1 in 187	1 in 26.6

DEPTH TO INVERT	1.418	1.369	1.369	1.369	1.346	1.296	0.924	
HYDRAULIC GRADE LINE	39.213		39.220		39.540	39.627	39.696	39.754
INVERT LEVEL	38.393	38.443	38.454	38.454	38.894	38.944	39.471	
FINISHED SURFACE LEVELS	39.812		39.823		40.240		40.395	
EXISTING SURFACE LEVEL	39.580		39.599		40.228		40.326	
CHAINAGE (Reach Length)	0.000	(2.000)	2.000	(82.500)	84.500	(14.000)	98.500	

Pits 21 – 23 (DATUM 32.0)

	21–23
DESIGN FLOW (m3/s)	0.008
CAPACITY (m3/s)	0.061
AT GRADE VELOCITY (m/s)	1.54
PIPE SIZE (mm)	225Ø
GRADE	1 in 53.8

DEPTH TO INVERT	1.346	1.296	0.898	
HYDRAULIC GRADE LINE	39.540	39.627	39.632	39.650
INVERT LEVEL	38.894	38.944	39.242	
FINISHED SURFACE LEVELS	40.240		40.140	
EXISTING SURFACE LEVEL	40.228		40.168	
CHAINAGE (Reach Length)	0.000	(16.000)	16.000	

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties – Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15 DRAINAGE LONG SECTIONS - 2**

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:500 (H) 1:50 (V)
H 10 5 0 10 20
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R601	A

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WARNING
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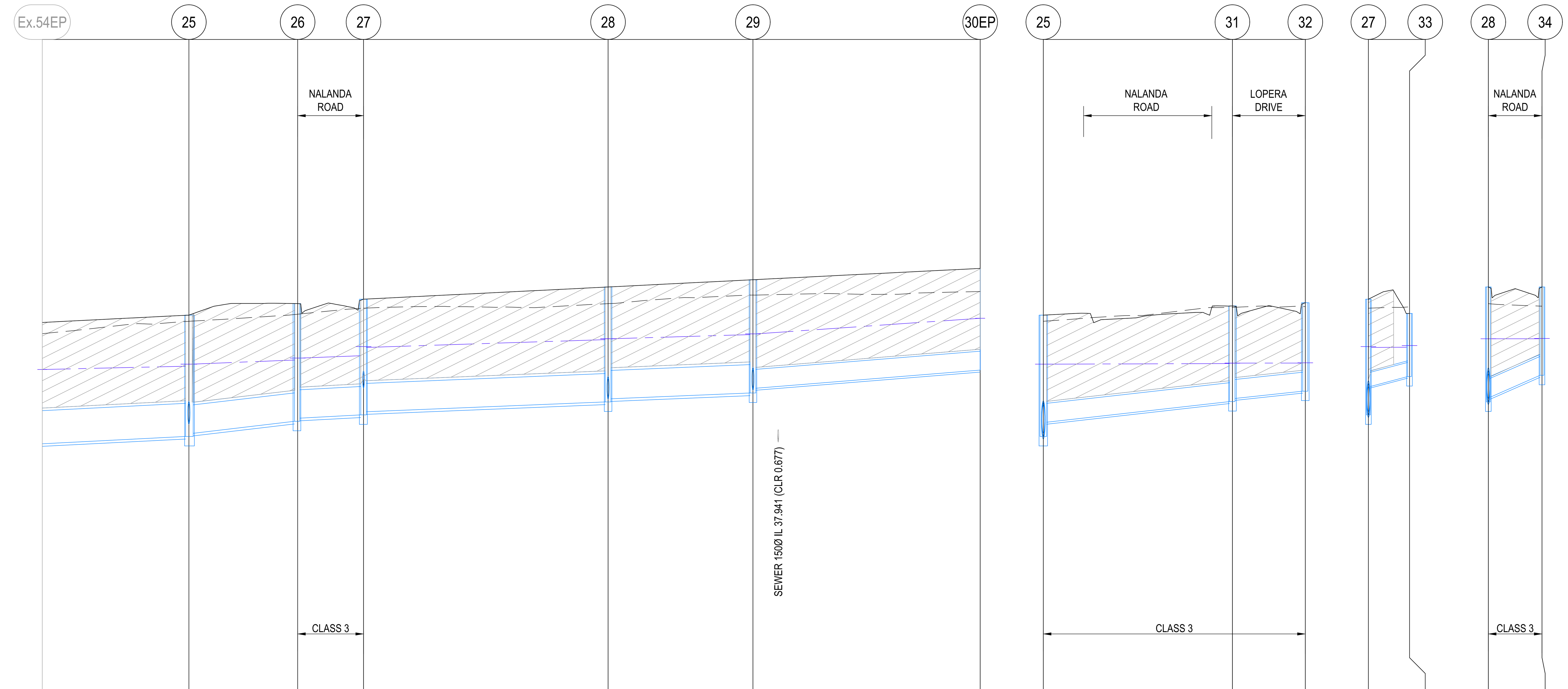
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- HYDRUALIC GRADE LINE
- CRUSHED ROCK BACKFILL
- PROPOSED SEWER MAIN

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 40
Permit No WYP10817/18
Date 13/09/2024



Ex.54EP – 30EP

	Ex.54EP–25	25–26	26–27	27–28	28–29	29–30EP
DESIGN FLOW (m3/s)	0.203	0.176	0.172	0.161	0.153	0.080
CAPACITY (m3/s)	0.304	0.299	0.202	0.180	0.180	0.087
AT GRADE VELOCITY (m/s)	1.41	1.88	1.27	1.13	1.13	1.22
PIPE SIZE (mm)	525Ø	450Ø	450Ø	450Ø	450Ø	300Ø
GRADE	1 in 200	1 in 90.9	1 in 200	1 in 250	1 in 250	1 in 125
(Reach Length)	(23.231)	(17.235)	(10.434)	(38.740)	(22.948)	(35.998)

DATUM 32.0

	Ex.54EP	25	26	27	28	29	30EP
DEPTH TO INVERT	1.923 / 1.923	1.923 / 1.873	1.867 / 1.817	1.834 / 1.784	1.823 / 1.773	1.795 / 1.720	1.612
HYDRAULIC GRADE LINE	39.068	39.120 / 39.153	39.219 / 39.249	39.287 / 39.431 39.418	39.541 / 39.555	39.621 / 39.633	39.880
INVERT LEVEL	37.891 / 37.891	38.007 / 38.057	38.247 / 38.297	38.349 / 38.399	38.554 / 38.604	38.695 / 38.770	39.058
FINISHED SURFACE LEVELS	39.814	39.930	40.113	40.183	40.376	40.491	40.671
EXISTING SURFACE LEVEL	39.635	39.832	39.944	40.039	40.112	40.248	40.305
CHAINAGE	0.000	23.231	40.466	50.900	89.640	112.588	148.586

25 – 32

	25–31	31–32
DESIGN FLOW (m3/s)	0.017	0.007
CAPACITY (m3/s)	0.101	0.097
AT GRADE VELOCITY (m/s)	1.43	1.37
PIPE SIZE (mm)	300Ø	300Ø
GRADE	1 in 91.5	1 in 100
(Reach Length)	(29.961)	(11.543)

DATUM 32.0

	25	31	32
DEPTH TO INVERT	1.923 / 1.698	1.517 / 1.467	1.402
HYDRAULIC GRADE LINE	39.120 / 39.153	39.162 / 39.169	39.170 / 39.174
INVERT LEVEL	38.007 / 38.232	38.559 / 38.609	38.725
FINISHED SURFACE LEVELS	39.930	40.076	40.127
EXISTING SURFACE LEVEL	39.832	40.055	40.067
CHAINAGE	0.000	29.961	41.504

27 – 33

	27–33
DESIGN FLOW (m3/s)	0.011
CAPACITY (m3/s)	0.070
AT GRADE VELOCITY (m/s)	1.75
PIPE SIZE (mm)	225Ø
GRADE	1 in 41.5
(Reach Length)	(6.514)

DATUM 32.0

	27	33
DEPTH TO INVERT	1.834 / 1.384	1.000
HYDRAULIC GRADE LINE	39.287 / 39.431 39.418	39.422 / 39.447
INVERT LEVEL	38.349 / 38.799	38.956
FINISHED SURFACE LEVELS	40.183	39.956
EXISTING SURFACE LEVEL	40.039	40.061
CHAINAGE	0.000	6.514

28 – 34

	28–34
DESIGN FLOW (m3/s)	0.008
CAPACITY (m3/s)	0.196
AT GRADE VELOCITY (m/s)	2.77
PIPE SIZE (mm)	300Ø
GRADE	1 in 24.5
(Reach Length)	(8.499)

DATUM 32.0

	28	34
DEPTH TO INVERT	1.823 / 1.748	1.400
HYDRAULIC GRADE LINE	39.541 / 39.555	39.556 / 39.561
INVERT LEVEL	38.554 / 38.629	38.976
FINISHED SURFACE LEVELS	40.376	40.376
EXISTING SURFACE LEVEL	40.112	40.071
CHAINAGE	0.000	8.499

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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15 DRAINAGE LONG SECTIONS - 3**

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:500 (H) 1:50 (V)
H 10 5 0 10 20
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R602	A

WARNING
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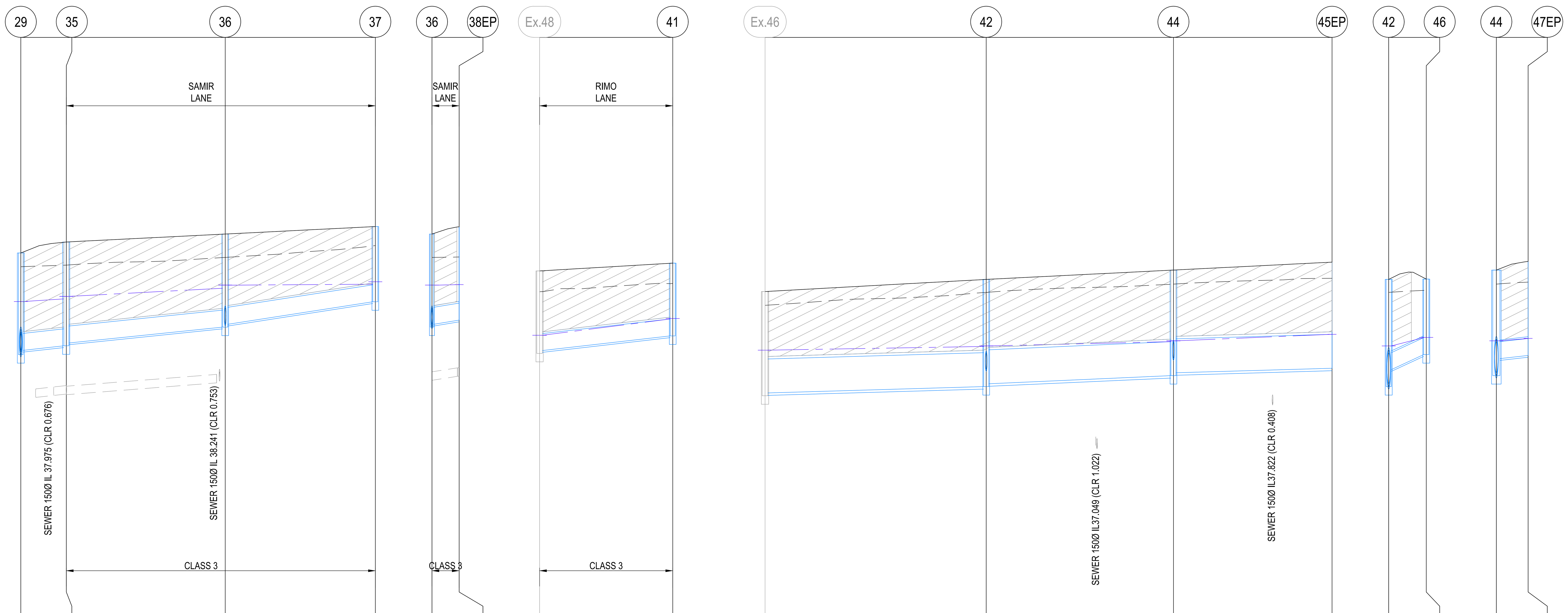
LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- CRUSHED ROCK BACKFILL
- PROPOSED SEWER MAIN

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 40
Permit No WYP10817/18
Date 13/09/2024



Pits 29 – 35 – 36 – 37

	Pit 29	29–35	Pit 35	35–36	Pit 36	36–37	Pit 37
DESIGN FLOW (m3/s)		0.074		0.069		0.024	
CAPACITY (m3/s)		0.097		0.097		0.118	
AT GRADE VELOCITY (m/s)		1.37		1.37		1.68	
PIPE SIZE (mm)		300Ø		300Ø		300Ø	
GRADE		1 in 100		1 in 100		1 in 66.7	
DATUM	32.0						
DEPTH TO INVERT	1.795 1.720		1.833 1.783		1.644 1.594		1.329
HYDRAULIC GRADE LINE	39.621 39.633		39.680 39.724		39.868 39.924 39.922		39.939 39.982
INVERT LEVEL	38.695 38.770		38.851 38.901		39.181 39.231		39.629
FINISHED SURFACE LEVELS	40.491		40.684		40.825		40.958
EXISTING SURFACE LEVEL	40.248		40.277		40.413		40.621
CHAINAGE (Reach Length)	0.000	(8.030)	8.030	(28.050)	36.080	(26.500)	62.580

Pits 36 – 38EP

	Pit 36	36–38EP	Pit 38EP
DESIGN FLOW (m3/s)		0.041	
CAPACITY (m3/s)		0.120	
AT GRADE VELOCITY (m/s)		1.7	
PIPE SIZE (mm)		300Ø	
GRADE		1 in 65	
DATUM	32.0		
DEPTH TO INVERT	1.644 1.594		1.647
HYDRAULIC GRADE LINE	39.868 39.924 39.922		39.931
INVERT LEVEL	39.181 39.231		39.305
FINISHED SURFACE LEVELS	40.825		40.952
EXISTING SURFACE LEVEL	40.413		40.421
CHAINAGE (Reach Length)	0.000	(4.800)	4.800

Pits Ex.48 – 41

	Pit Ex.48	Ex.48–41	Pit 41
DESIGN FLOW (m3/s)		0.010	
CAPACITY (m3/s)		0.097	
AT GRADE VELOCITY (m/s)		1.37	
PIPE SIZE (mm)		300Ø	
GRADE		1 in 100	
DATUM	32.0		
DEPTH TO INVERT	1.482 1.407		1.310
HYDRAULIC GRADE LINE	39.037		39.302 39.309
INVERT LEVEL	38.717 38.767		39.002
FINISHED SURFACE LEVELS	40.199		40.311
EXISTING SURFACE LEVEL	39.806		39.952
CHAINAGE (Reach Length)	0.000	(23.500)	23.500

Pits Ex.46 – 42 – 44 – 45EP

	Pit Ex.46	Ex.46–42	Pit 42	42–44	Pit 44	44–45EP	Pit 45EP
DESIGN FLOW (m3/s)		0.251		0.247		0.235	
CAPACITY (m3/s)		0.328		0.406		0.328	
AT GRADE VELOCITY (m/s)		1.16		1.44		1.16	
PIPE SIZE (mm)		600Ø		600Ø		600Ø	
GRADE		1 in 350		1 in 229		1 in 350	
DATUM	32.0						
DEPTH TO INVERT	1.841 1.791		1.894 1.844		1.865 1.815		1.875
HYDRAULIC GRADE LINE	38.774		38.839 38.849		38.924 38.939		39.054
INVERT LEVEL	37.968 38.018		38.130 38.180		38.324 38.374		38.454
FINISHED SURFACE LEVELS	39.810		40.024		40.189		40.329
EXISTING SURFACE LEVEL	39.566		39.795		39.941		40.044
CHAINAGE (Reach Length)	0.000	(39.047)	39.047	(33.055)	72.101	(28.000)	100.101

Pits 42 – 46

	Pit 42	42–46	Pit 46
DESIGN FLOW (m3/s)		0.008	
CAPACITY (m3/s)		0.193	
AT GRADE VELOCITY (m/s)		2.74	
PIPE SIZE (mm)		300Ø	
GRADE		1 in 25	
DATUM	32.0		
DEPTH TO INVERT	1.894 1.594		1.335
HYDRAULIC GRADE LINE	38.839 38.849		38.995 38.999
INVERT LEVEL	38.130 38.430		38.695
FINISHED SURFACE LEVELS	40.024		40.030
EXISTING SURFACE LEVEL	39.795		39.832
CHAINAGE (Reach Length)	0.000	(6.631)	6.631

Pits 44 – 47EP

	Pit 44	44–47EP	Pit 47EP
DESIGN FLOW (m3/s)		0.009	
CAPACITY (m3/s)		0.097	
AT GRADE VELOCITY (m/s)		1.37	
PIPE SIZE (mm)		300Ø	
GRADE		1 in 100	
DATUM	32.0		
DEPTH TO INVERT	1.865 1.565		1.662
HYDRAULIC GRADE LINE	38.924 38.939		38.980 38.982
INVERT LEVEL	38.324 38.624		38.680
FINISHED SURFACE LEVELS	40.189		40.343
EXISTING SURFACE LEVEL	39.941		39.977
CHAINAGE (Reach Length)	0.000	(5.614)	5.614

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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15**
DRAINAGE LONG SECTIONS - 4

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

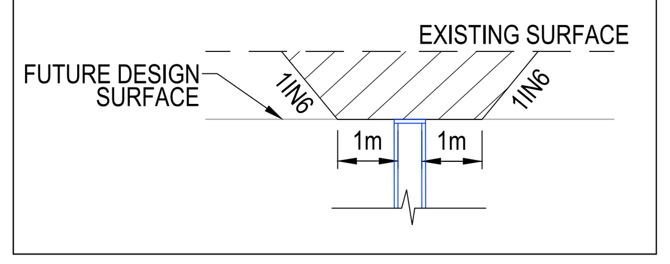
SCALE @ A1 : 1:500 (H) 1:50 (V)
H 10 5 0 10 20
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R603	A

NOTE

COVER LEVEL FOR PITS 48 TO 51 TO BE CONSTRUCTED AT FUTURE DESIGN SURFACE LEVELS. PROVIDE FREE-DRAINING SURFACE & 1m DIAMETER PLATFORM AROUND PIT FOR CONSTRUCTABILITY & 1:6 BATTER TO MATCH EXISTING SURFACE.



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- EXISTING SURFACE
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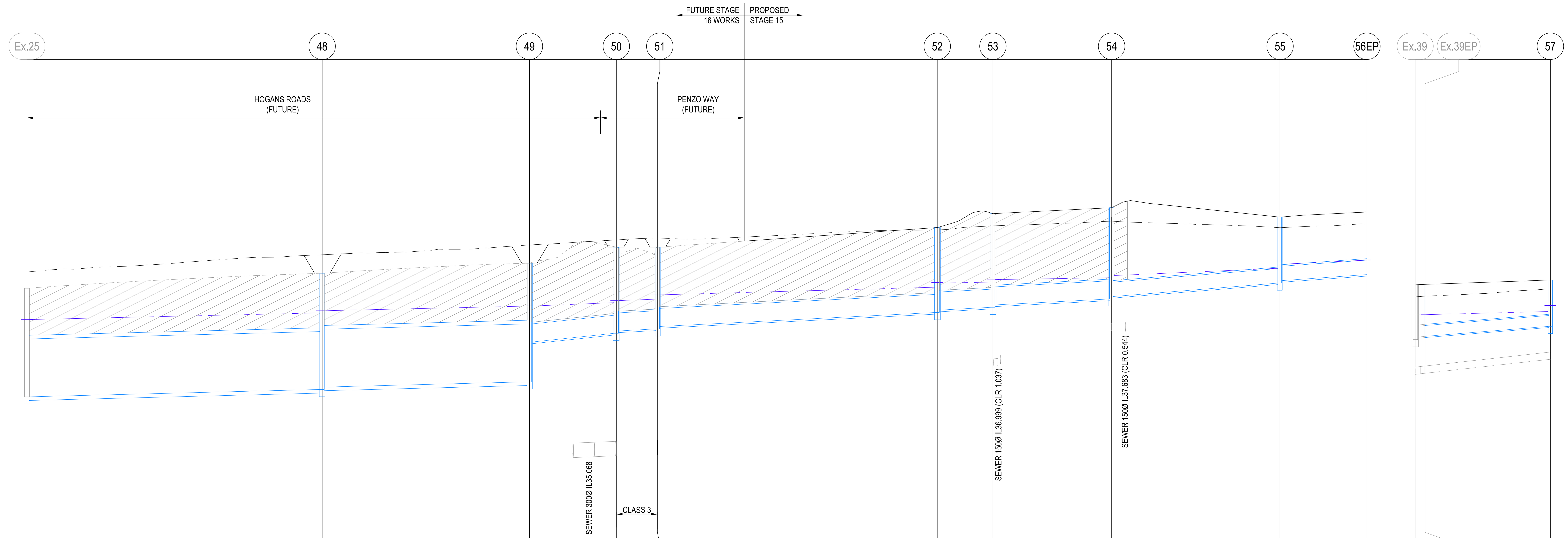
- PROPOSED SEWER MAIN

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024



Reach	DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	GRADE	(Reach Length)
Ex.25 – 48	1.851	1.950	1.72	1200Ø	1 in 400	(61.161)
48 – 49	1.846	1.950	1.72	1200Ø	1 in 400	(42.941)
49 – 50	0.111	0.175	1.59	375Ø	1 in 100	(18.004)
50 – 51	0.103	0.124	1.12	375Ø	1 in 200	(8.502)
51 – 52	0.092	0.124	1.12	375Ø	1 in 200	(57.995)
52 – 53	0.072	0.124	1.12	375Ø	1 in 200	(11.526)
53 – 54	0.070	0.124	1.12	375Ø	1 in 200	(24.599)
54 – 55	0.063	0.087	1.22	300Ø	1 in 125	(34.901)
55 – 56EP	0.064	0.081	1.15	300Ø	1 in 143	(18.000)
Ex.39 – Ex.39EP	0.022	0.040	1.01	225Ø	1 in 125	(2.002)
Ex.39EP – 57	0.023	0.040	1.01	225Ø	1 in 125	(25.997)

DATUM 31.0

	Ex.25	48	49	50	51	52	53	54	55	56EP
DEPTH TO INVERT	2.250	2.409 / 2.359	2.459 / 1.634	1.786 / 1.736	1.693 / 1.643	1.761 / 1.711	1.942 / 1.892	1.892 / 1.842	1.367 / 1.317	1.297
HYDRAULIC GRADE LINE	37.910	38.048 / 38.094	38.190	38.262 / 38.303	38.333 / 38.443 38.423	38.581 / 38.678 38.667	38.686 / 38.747 38.739	38.778 / 38.834 38.823	38.973 / 39.082 39.059	39.143
INVERT LEVEL	36.309	36.462 / 36.512	36.619 / 37.444	37.624 / 37.674	37.717 / 37.767	38.057 / 38.107	38.164 / 38.214	38.337 / 38.387	38.667 / 38.717	38.843
FINISHED SURFACE LEVELS	38.560	38.871	39.078	39.410	39.410	39.818	40.106	40.229	40.033	40.139
EXISTING SURFACE LEVEL	38.896	39.254	39.455	39.561	39.601	39.768	39.853	39.950	39.814	39.894
CHAINAGE	0.000	61.161	104.102	122.105	130.607	188.603	200.128	224.727	259.629	277.629

DATUM 32.0

	Ex.39	Ex.39EP	57
DEPTH TO INVERT	1.134 / 1.084	1.078	0.962
HYDRAULIC GRADE LINE	39.007	39.012	39.078 / 39.200
INVERT LEVEL	38.496 / 38.546	38.562	38.770
FINISHED SURFACE LEVELS	39.630	39.640	39.732
EXISTING SURFACE LEVEL	39.381	39.395	39.550
CHAINAGE	0.000	2.002	27.999

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties – Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15 DRAINAGE LONG SECTIONS - 5**

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:500 (H) 1:50 (V)
H 10 5 0 10 20
V 1 0.5 0 1 2

DESIGNED: S.M | PROJECT ENGINEER: S.M
DRAWN: S.M | PROJECT MANAGER: M.T
PROJECT No. **200282.15** | DRAWING No. **R604** | REVISION **A**

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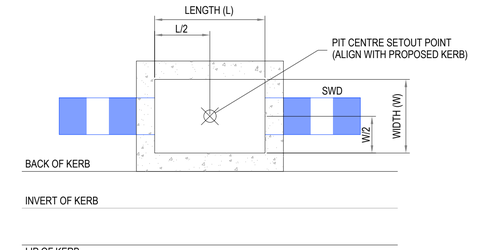
PIT SCHEDULE

PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L. (m)	DEPTH(m)	STANDARD DRAWING	REMARKS
		WIDTH(mm)	LENGTH(mm)	DIAMETER(mm)	INVERT R.L.(m)	DIAMETER(mm)	INVERT R.L.(m)				
Ex.30	Ex.PIT			900	36.759			39.348	2.664		CONNECT TO EXISTING PIT
1	SIDE ENTRY PIT GRATED	1200	900	900	37.147	900	37.097	39.656	2.559	EDCM 601 & 607	HAUNCHED TO 600x900 COVER**.
2	SIDE ENTRY PIT GRATED	1650	1200	750	37.460	900	37.385	39.800	2.414	REFER SHEET R702	HAUNCHED TO 600x900 COVER**.
				675	37.498						
				300	37.985						
3	SIDE ENTRY PIT GRATED	1050	1200	750	37.946	750	37.896	40.191	2.294	REFER SHEET R702	HAUNCHED TO 600x900 COVER
4	DOUBLE SIDE ENTRY PIT GRATED	1050	1050	750	38.028	750	37.978	40.210	2.232	REFER SHEET R702	HAUNCHED TO 600x900 COVER**.
5	SIDE ENTRY PIT GRATED	1050	900	750	38.213	750	38.163	40.432	2.268	EDCM 601 & 607	HAUNCHED TO 600x900 COVER
6	JUNCTION PIT	1050	900	750	38.291	750	38.241	40.485	2.245	EDCM 607	HAUNCHED TO 600x900 COVER
7	SIDE ENTRY PIT GRATED	1050	900	750	38.376	750	38.326	40.552	2.226	EDCM 601 & 607	HAUNCHED TO 600x900 COVER
				300	38.776						
8EP	ENDPIPE					750	38.469	40.606	2.136		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTIONS
9	SIDE ENTRY PIT GRATED	900	900	675	38.111	675	38.061	40.629	2.568	EDCM 601 & 607	HAUNCHED TO 600x900 COVER
				300	38.912						
10EP	ENDPIPE					675	38.141	40.644	2.503		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTIONS
11	JUNCTION PIT	600	900	300	38.362	300	38.312	40.138	1.826	EDCM 605	
12	DOUBLE SIDE ENTRY PIT GRATED	600	900			300	38.539	40.364	1.825	EDCM 602 & 607	
13	SIDE ENTRY PIT GRATED	600	900	225	39.049	300	38.999	40.621	1.623	EDCM 601 & 605	
14	JUNCTION PIT	600	900	225	40.206	225	40.156	41.400	1.244	EDCM 605	
15EP	ENDPIPE					225	40.230	41.421	1.192		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTIONS
16	SIDE ENTRY PIT GRATED	600	900			300	39.137	40.539	1.401	EDCM 601 & 605	
Ex.60	Ex.PIT			300	37.725			39.363	1.713		CONNECT TO EXISTING PIT
18	SIDE ENTRY PIT GRATED	600	900	300	38.078	300	38.028	39.666	1.638	EDCM 601 & 605	
19	SIDE ENTRY PIT GRATED	600	900			300	38.241	39.819	1.578	EDCM 601 & 605	
Ex.57EP	Ex.ENDPIPE			300	38.454	300	38.454	39.823	1.369		CONNECT TO EXISTING ENDPIPE
21	JUNCTION PIT	600	900	225	38.944	300	38.894	40.240	1.346	EDCM 605	
				225	38.944						
22	JUNCTION PIT	600	900			225	39.471	40.395	0.924	EDCM 605	
23	JUNCTION PIT	600	900			225	39.242	40.140	0.898	EDCM 605	
Ex.54EP	Ex.ENDPIPE			525	37.891			39.814	1.923		CONNECT TO EXISTING ENDPIPE
25	SIDE ENTRY PIT GRATED	900	900	450	38.057	525	38.007	39.930	1.923	EDCM 601 & 607	HAUNCHED TO 600x900 COVER**.
				300	38.232						
26	SIDE ENTRY PIT GRATED	600	1050	450	38.297	450	38.247	40.113	1.867	EDCM 601 & 607	HAUNCHED TO 600x900 COVER
27	SIDE ENTRY PIT GRATED	600	1050	450	38.399	450	38.349	40.183	1.834	EDCM 601 & 607	HAUNCHED TO 600x900 COVER
				225	38.799						
28	SIDE ENTRY PIT GRATED	600	900	450	38.604	450	38.554	40.376	1.823	EDCM 601 & 605	
				300	38.629						
29	SIDE ENTRY PIT GRATED	600	900	300	38.770	450	38.695	40.491	1.795	EDCM 601 & 605	
				300	38.770						
30EP	ENDPIPE					300	39.058	40.671	1.612		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTIONS
31	SIDE ENTRY PIT GRATED	600	900	300	38.609	300	38.559	40.076	1.517	EDCM 601 & 605	
32	SIDE ENTRY PIT GRATED	600	900			300	38.725	40.127	1.402	EDCM 601 & 605	
33	GRATED PIT	750	1000			225	38.956	39.956	1.000	WCC STD DWG SD5-1	
34	SIDE ENTRY PIT GRATED	600	900			300	38.976	40.376	1.400	EDCM 601 & 605	
35	GRATED PIT	600	900	300	38.901	300	38.851	40.684	1.833	EDCM 605 WITH GRATE	WITH HEAVY DUTY, CLASS D, BIKE SAFE INVERTED GRATED COVER
36	GRATED PIT	600	900	300	39.231	300	39.181	40.825	1.644	EDCM 605 WITH GRATE	WITH HEAVY DUTY, CLASS D, BIKE SAFE INVERTED GRATED COVER
				300	39.231						
37	JUNCTION PIT	600	900			300	39.629	40.958	1.329	EDCM 605	HEAVY DUTY COVER, CLASS D
38EP	ENDPIPE					300	39.305	40.952	1.647		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTIONS
Ex.48	Ex.PIT			300	38.767			40.199	1.482		CONNECT TO EXISTING PIT
41	JUNCTION PIT	600	900			300	39.002	40.311	1.310	EDCM 605	HEAVY DUTY COVER, CLASS D
Ex.46	Ex.BLOCKOUT			600	38.018			39.810	1.841		CONNECT TO EXISTING BLOCKOUT
42	SIDE ENTRY PIT GRATED	900	900	600	38.180	600	38.130	40.024	1.894	EDCM 601 & 607	HAUNCHED TO 600x900 COVER**.
				300	38.430						
44	SIDE ENTRY PIT GRATED	900	900	600	38.374	600	38.324	40.189	1.865	EDCM 601 & 607	HAUNCHED TO 600x900 COVER**.
				300	38.624						
45EP	ENDPIPE					600	38.454	40.329	1.875		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTIONS
46	GRATED PIT	600	900			300	38.695	40.030	1.335	EDCM 605 WITH GRATE	BIKE SAFE INVERTED GRATED COVER
47EP	ENDPIPE					300	38.680	40.343	1.662		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTIONS
Ex.25	Ex.BLOCKOUT			1200	36.309			38.560	2.250		CONNECT TO EXISTING BLOCKOUT
48	JUNCTION PIT	1500	900	1200	36.512	1200	36.462	38.871	2.409	EDCM 607	HAUNCHED TO 600x900 COVER. CONSTRUCT PIT TO FUTURE DESIGN SURFACE LEVEL. TO BE CONVERTED TO SEP IN FUTURE STAGE.
49	JUNCTION PIT	1500	900	375	37.444	1200	36.619	39.078	2.459	EDCM 607	HAUNCHED TO 600x900 COVER. CONSTRUCT PIT TO FUTURE DESIGN SURFACE LEVEL. TO BE CONVERTED TO SEP IN FUTURE STAGE. PROVIDE 1050Ø BLOCKOUT TO NORTH AT IL36.694 FOR FUTURE CONNECTION.
50	JUNCTION PIT	600	900	375	37.674	375	37.624	39.410	1.786	EDCM 605	CONSTRUCT PIT TO FUTURE DESIGN SURFACE LEVEL. TO BE CONVERTED TO SEP IN FUTURE STAGE.
51	JUNCTION PIT	600	900	375	37.767	375	37.717	39.410	1.693	EDCM 605	CONSTRUCT PIT TO FUTURE DESIGN SURFACE LEVEL. TO BE CONVERTED TO SEP IN FUTURE STAGE.
52	SIDE ENTRY PIT GRATED	600	900	375	38.107	375	38.057	39.818	1.761	EDCM 601 & 605	
53	SIDE ENTRY PIT GRATED	600	900	375	38.214	375	38.164	40.106	1.942	EDCM 601 & 605	
54	SIDE ENTRY PIT GRATED	600	900	300	38.387	375	38.337	40.229	1.892	EDCM 601 & 605	HEAVY DUTY COVER, CLASS D
55	JUNCTION PIT	600	900	300	38.717	300	38.667	40.033	1.367	EDCM 605	
56EP	ENDPIPE					300	38.843	40.139	1.297		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTIONS
Ex.39EP	Ex.ENDPIPE			225	38.562	225	38.562	39.640	1.078		CONNECT TO EXISTING ENDPIPE
57	JUNCTION PIT	600	900			225	38.770	39.732	0.962	EDCM 605	

1) ** - DENOTES PIT IS HAUNCHED TOWARDS ROAD CENTRELINE (UNDER ROAD PAVEMENT/KERB).
2) ALL PIT COVERS TO BE PROVIDED IN ACCORDANCE WITH EDCM 605 - PIT COVER SCHEDULE.
3) PITS WITHIN ROAD RESERVES ARE TO BE BACKFILLED AND COMPACTED WITH CLASS 3 FCR IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS AND REQUIREMENTS.

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



TYPICAL DRAINAGE PIT SETOUT DETAIL

GRATED SIDE ENTRY PIT
REFER TO EDCM 601, 602 & 603 NOT TO SCALE

TYPICAL DRAINAGE PIT SETOUT DETAIL

HAUNCHED GRATED SIDE ENTRY PIT
REFER TO EDCM 601, 603 & 607
NOT TO SCALE

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
C	27/08/24	COUNCIL COMMENTS - PITS 2, 3, 4 & 33	A.W	A.W	M.T
B	19/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: ALAMORA - STAGE 15 PIT SCHEDULE

STATUS: ISSUED FOR APPROVAL — NOT FOR CONSTRUCTION

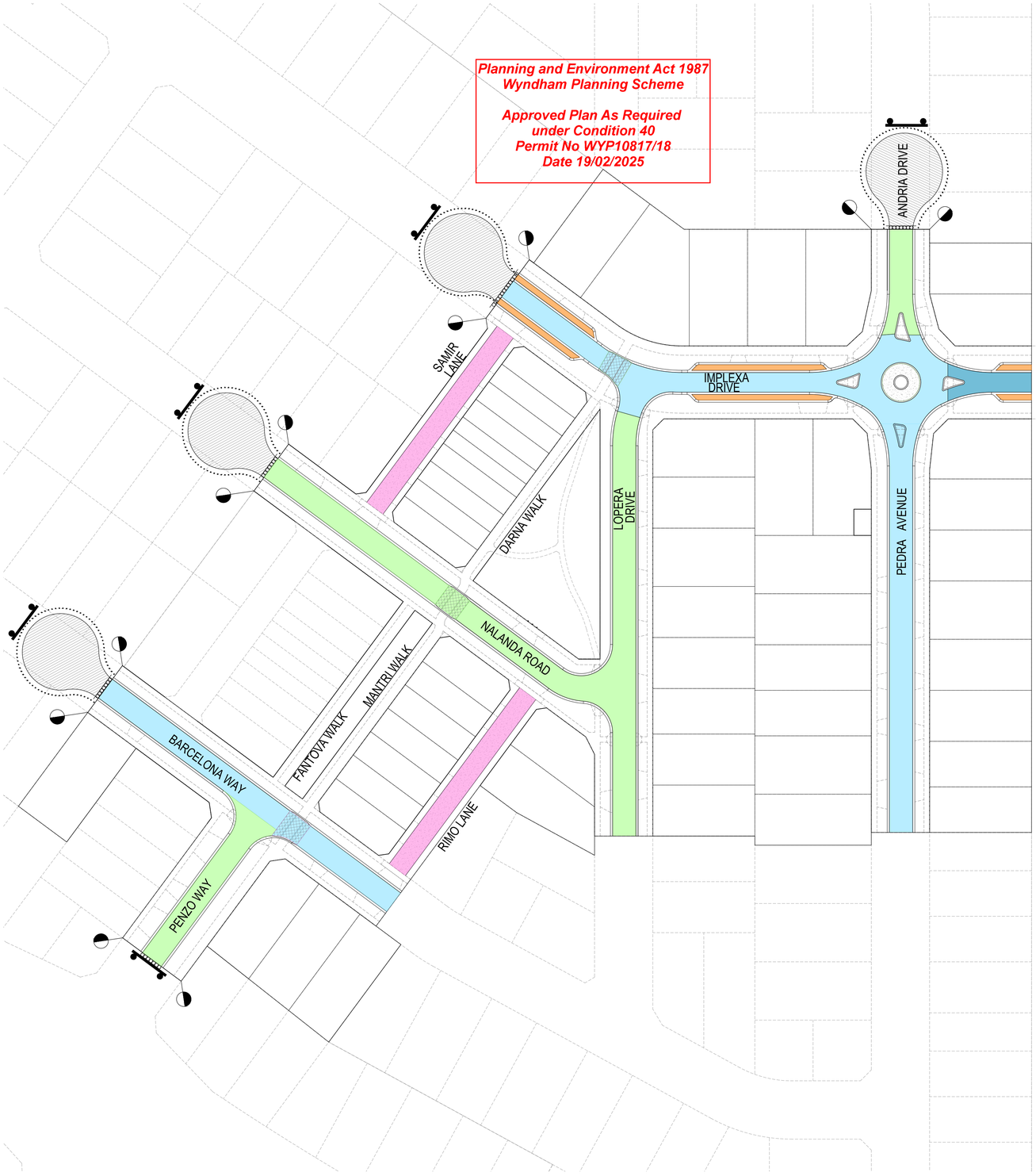
SCALE @ A1 : 1:500 (H) 1:50 (V)
H 10 5 0 10 20
V 1 0.5 0 1 2

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T
PROJECT No.	DRAWING No.	REVISION
200282.15	R605	C

P:\200\200282 - ALAMORA, TARNEIT\200282.15\CIVIL\2. DRAFTING\ACAD\ROADS & DRAINAGE\200282.15 - R600 - DRAINAGE LONG SECTIONS.DWG

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 19/02/2025

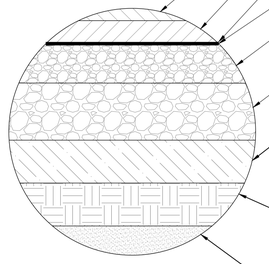


PAVEMENT PLAN

NOTE
PAVEMENT LAYERS ARE TO BE CONSTRUCTED AND COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS AND REQUIREMENTS.

PAVEMENT DESIGNS
ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY TONKIN TAYLOR. CREO IS NOT RESPONSIBLE FOR GEOTECHNICAL OR PAVEMENT RELATED DESIGNS AND IS NOT RESPONSIBLE FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THESE DESIGNS. THE PAVEMENT COMPOSITIONS SHOWN ON THIS DRAWING HAVE BEEN REPRODUCED FROM THE PAVEMENT REPORT FOR THIS DEVELOPMENT. THIS DOCUMENT SHOULD BE REVIEWED BY THE CONTRACTOR TO ENSURE DESIGN HAS BEEN INTERPRETED CORRECTLY. A COPY OF THIS DOCUMENT WILL BE MADE AVAILABLE UPON REQUEST.

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



ASPHALT (WEARING) COURSE:
30mm COMPACTED DEPTH SIZE 10 TYPE N CLASS 320

ASPHALT (BASE) COURSE:
30mm COMPACTED DEPTH SIZE 10 TYPE N CLASS 320

INTERLAYER:
5mm SIZE 10mm SAMI WITH CLASS S45R BINDER

PRIME (BONDING) COURSE:
BITUMINOUS PRIME OR SIZE 7mm PRIMESEAL

BASE COURSE:
130mm COMPACTED DEPTH 20mm CLASS 2 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO 98% (MODIFIED) AS1289, 5.2.1

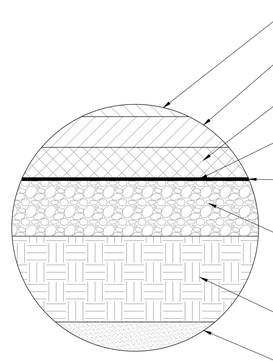
SUBBASE COURSE:
200mm COMPACTED DEPTH 20mm CLASS 3 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO 96% (MODIFIED) AS1289, 5.2.1

CAPPING:
150mm TYPE A FILL MATERIAL (MINIMUM CBR 7%, MAXIMUM SWELL 1.5%, PERMEABILITY $k \leq 5x10^{-9}$m/s ($5x\ 10^{-7}$cm/s) COMPACTED TO A MINIMUM CHARACTERISTICS DENSITY RATIO OF 98% STANDARD, MAXIMUM DRY DENSITY AS1289, 5.1.1.

CONSTRUCTION:
150mm TYPE A FILL MATERIAL (MINIMUM CBR 7%, MAXIMUM SWELL 1.5%, PERMEABILITY $k \leq 5x10^{-9}$m/s ($5x\ 10^{-7}$cm/s) COMPACTED TO A MINIMUM CHARACTERISTICS DENSITY RATIO OF 98% STANDARD, MAXIMUM DRY DENSITY AS1289, 5.1.1.

SUBGRADE:
MATERIAL AS FOUND (CLAY), CBR 1%. TOP 200mm SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO MINIMUM DENSITY OF 98% (STANDARD) AS1289, 5.1.1

PAVEMENT COMPOSITION
PEDRA AVENUE, BARCELONA WAY & IMPLEXA DRIVE
695mm DEPTH
NTS



ASPHALT (WEARING) COURSE:
40mm COMPACTED DEPTH SIZE 14 TYPE H CLASS 320

ASPHALT (INTERMEDIATE) COURSE 1:
75mm COMPACTED DEPTH SIZE 20 TYPE SI CLASS 320

ASPHALT (INTERMEDIATE) COURSE 2:
75mm COMPACTED DEPTH SIZE 20 TYPE SI CLASS 320

SAMI SEAL:
10mm SIZE 10mm SAMI WITH CLASS S18RF BINDER

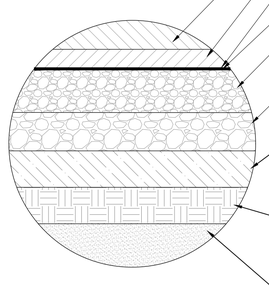
PRIME:
CUT BACK BITUMEN PRIME (AMC0) OR APPROVED BITUMEN EMULSION PRIME (e.g. K2 OR EMULPRIME)

BASE COURSE:
100mm COMPACTED DEPTH 20mm CLASS 2 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO 96% (MODIFIED PROCTOR) AS1289, 5.2.1

CAPPING:
350mm IMPORTED TYPE A WITH CBR 8%, SWELL AND ≤1.5%, PERMEABILITY $k \leq 5x10^{-9}$m/s

SUBGRADE:
CBR = 2%, EXPANSIVE

PAVEMENT COMPOSITION
IMPLEXA DRIVE
640mm DEPTH
NTS
NOTE: ADOPTED PAVEMENT FROM THE GROVE STAGE 37B.



ASPHALT (WEARING) COURSE:
30mm COMPACTED DEPTH SIZE 10 TYPE L CLASS 320

ASPHALT (BASE) COURSE:
30mm COMPACTED DEPTH SIZE 10 TYPE N CLASS 320

INTERLAYER:
5mm SIZE 10mm SAMI WITH CLASS S45R BINDER

PRIME (BONDING) COURSE:
BITUMINOUS PRIME OR SIZE 7mm PRIMESEAL

BASE COURSE:
130mm COMPACTED DEPTH 20mm CLASS 2 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO 98% (MODIFIED) AS1289, 5.2.1

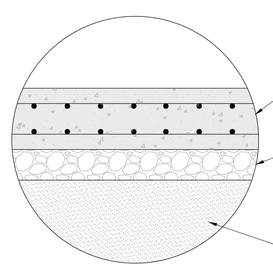
SUBBASE COURSE:
100mm COMPACTED DEPTH 20mm CLASS 3 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO 96% (MODIFIED) AS1289, 5.2.1

CAPPING:
150mm TYPE A FILL MATERIAL (MINIMUM CBR 7%, MAXIMUM SWELL 1.5%, PERMEABILITY $k \leq 5x10^{-9}$m/s ($5x\ 10^{-7}$cm/s) COMPACTED TO A MINIMUM CHARACTERISTICS DENSITY RATIO OF 98% STANDARD, MAXIMUM DRY DENSITY AS1289, 5.1.1.

CONSTRUCTION:
150mm TYPE A FILL MATERIAL (MINIMUM CBR 7%, MAXIMUM SWELL 1.5%, PERMEABILITY $k \leq 5x10^{-9}$m/s ($5x\ 10^{-7}$cm/s) COMPACTED TO A MINIMUM CHARACTERISTICS DENSITY RATIO OF 98% STANDARD, MAXIMUM DRY DENSITY AS1289, 5.1.1.

SUBGRADE:
MATERIAL AS FOUND (CLAY), CBR 1%. TOP 200mm SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO MINIMUM DENSITY OF 98% (STANDARD) AS1289, 5.1.1

PAVEMENT COMPOSITION
LOPERA DRIVE, PENZO WA & NALANDA ROAD
595mm DEPTH
NTS

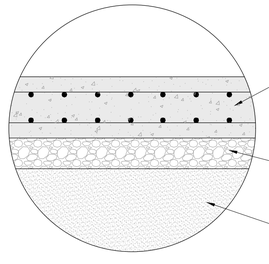


200mm THICK CONCRETE WITH SL82 MESH, TOP AND BOTTOM (50mm COVER).

BEDDING LAYER:
100mm SIZE 20mm CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY RATIO 98% (MODIFIED) AS1289, 5.2.1.

SUBGRADE IMPROVEMENT AS DIRECTED BY THE SUPERINTENDENT

PAVEMENT COMPOSITION
IMPLEXA DRIVE PARKING BAY
300mm DEPTH
NTS



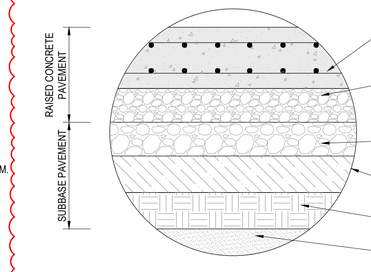
200mm THICK 32MPa CONCRETE WITH 2 LAYERS OF SL82 MESH, 50mm TOP & BOTTOM COVER

100mm COMPACTED DEPTH 20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK

SUBGRADE IMPROVEMENT AS DIRECTED BY THE SUPERINTENDENT

PAVEMENT COMPOSITION
RIMO & SAMIR LANE
300mm DEPTH

1



CONCRETE PAVEMENT:
200mm MIN. THICKNESS 32MPa COLOURED (FIG TREE) WITH SL92 MESH T&B 50mm COVER

BASE COURSE:
100mm COMPACTED DEPTH 20mm CLASS 2 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO 98% (MODIFIED) AS1289, 5.2.1

SUBBASE COURSE:
AS PER RESPECTIVE IMPLEXA DRIVE/BARCELONA WAY OR NALANDA ROAD PAVEMENT DETAIL

CAPPING:
AS PER PAVEMENT DETAILS

CONSTRUCTION:
AS PER PAVEMENT DETAILS

SUBGRADE:
AS PER PAVEMENT DETAILS

PAVEMENT COMPOSITION
RAISED PAVEMENT
(REFER R701 FOR DETAILS)

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	29/01/25	RAISED PAVEMENT	S.M	A.W	M.T
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
C	18/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
B	30/05/24	AMENDED LOTS ORIENTATION - LOT1517/1518	S.M	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT
villawood properties
Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT
ALAMORA Tarneit

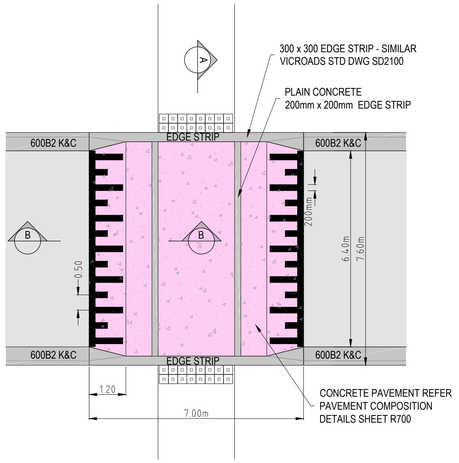
DRAWING TITLE
ALAMORA - STAGE 15
PAVEMENT PLAN

STATUS
ISSUED FOR CONSTRUCTION

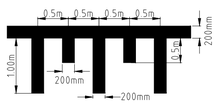
SCALE @ A1 : 1:750
15 0 15 30

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

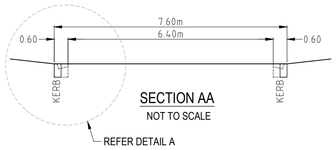
PROJECT No.	DRAWING No.	REVISION
200282.15	R700	1



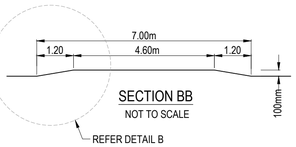
PLAN
NOT TO SCALE



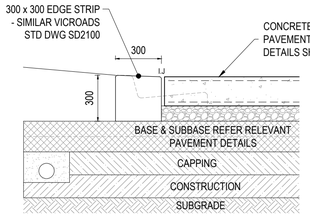
LINEMARKING DETAIL
NOT TO SCALE



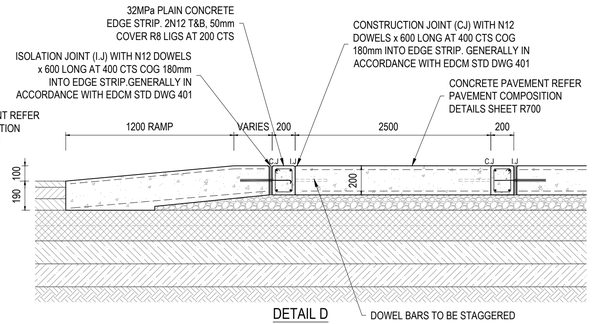
SECTION AA
NOT TO SCALE



SECTION BB
NOT TO SCALE

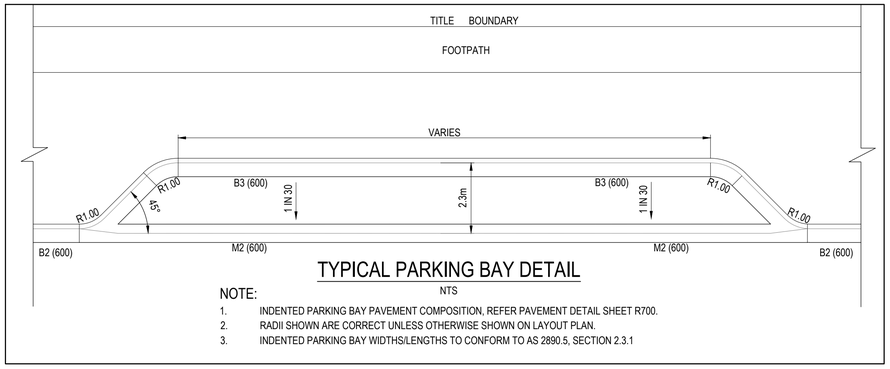


DETAIL C
NOT TO SCALE



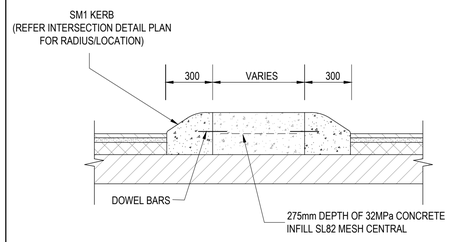
DETAIL D
NOT TO SCALE

RAISED PAVEMENT DETAIL
NOT TO SCALE
1

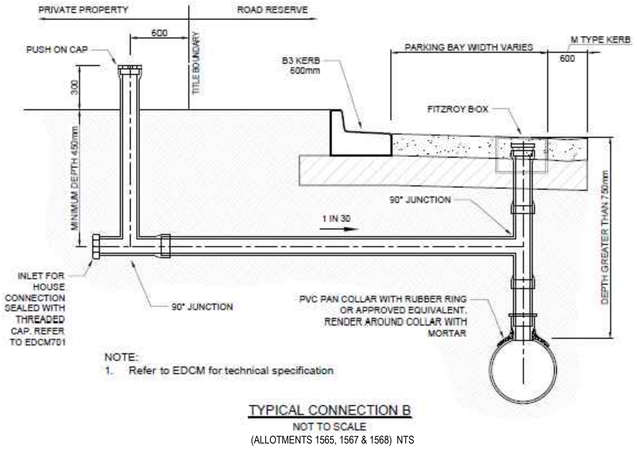


TYPICAL PARKING BAY DETAIL
NTS

NOTE:
1. INDENTED PARKING BAY PAVEMENT COMPOSITION, REFER PAVEMENT DETAIL SHEET R700.
2. RADII SHOWN ARE CORRECT UNLESS OTHERWISE SHOWN ON LAYOUT PLAN.
3. INDENTED PARKING BAY WIDTHS/LENGTHS TO CONFORM TO AS 2890.5, SECTION 2.3.1

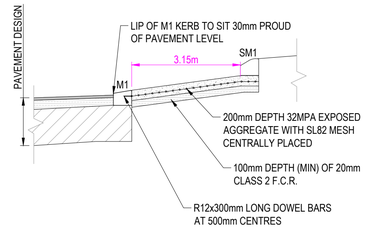


SPLITTER ISLAND
NOT TO SCALE

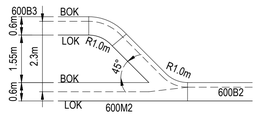


NOTE:
1. Refer to EDCM for technical specification

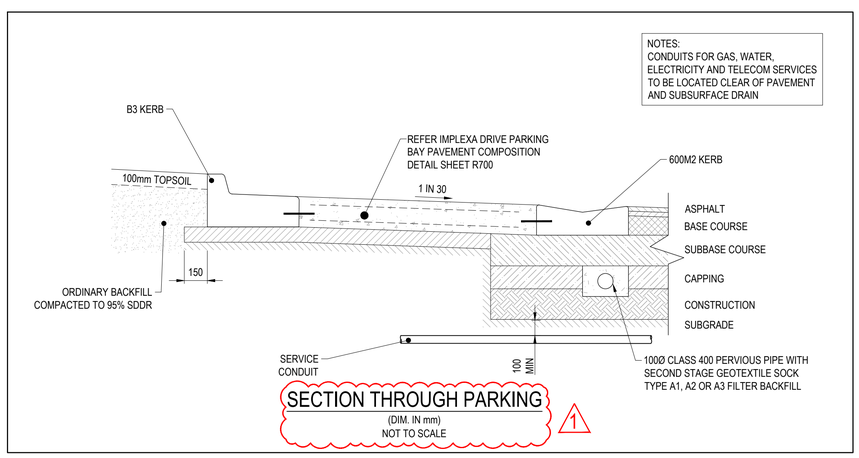
TYPICAL CONNECTION B
NOT TO SCALE
(ALLOTMENTS 1565, 1567 & 1568) NTS



ROUNABOUT CENTRAL ISLAND KERB DETAIL
NOT TO SCALE



KERB OUTSTAND DETAIL
NTS



SECTION THROUGH PARKING
(DIM. IN mm)
NOT TO SCALE
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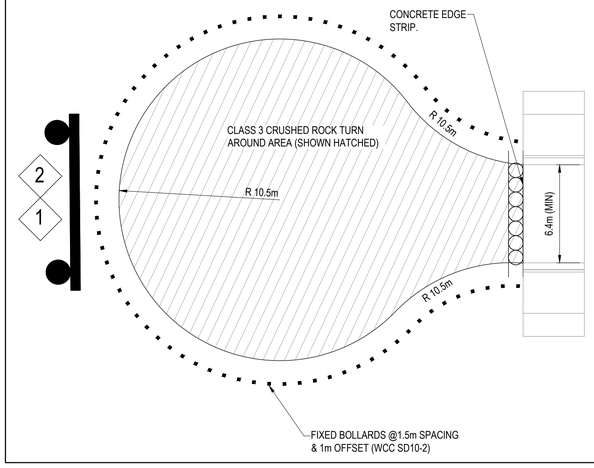
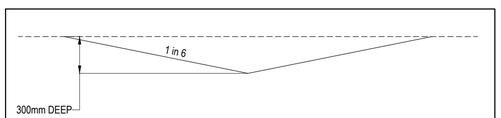


SIGN SCHEDULE

SIGN	REF
D4-5	1
ROAD CLOSED T2-4A	2

TYPICAL TEMPORARY TURN AREA TYPICAL DETAIL
NTS



SWALE DRAIN TYPICAL SECTION
NOT TO SCALE

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 19/02/2025

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	29/01/25	RAISED PAVEMENT	S.M	A.W	M.T
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
C	27/08/24	COUNCIL COMMENTS - DRAINAGE CONNECTION TYPE B ADDED	A.W	A.W	M.T
B	19/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT
villawood properties
Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT
ALAMORA Tarneit

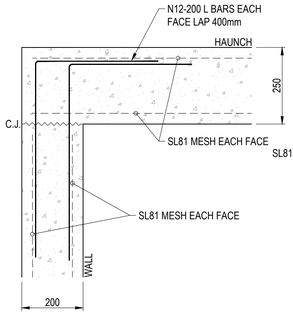
DRAWING TITLE
ALAMORA - STAGE 15
TYPICAL DETAILS

STATUS
ISSUED FOR CONSTRUCTION

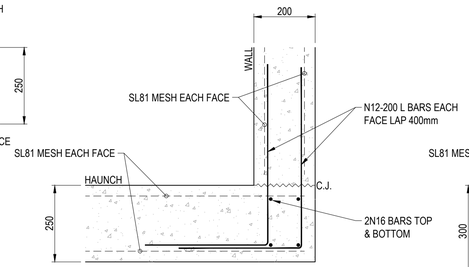
SCALE @ A1 :
AS SHOWN

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

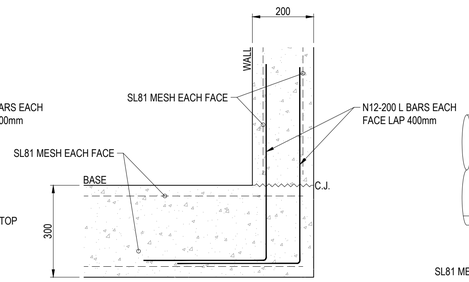
PROJECT No.	DRAWING No.	REVISION
200282.15	R701	1



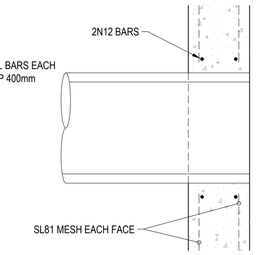
DETAIL 1
SCALE 1:10



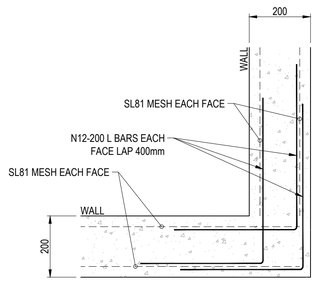
DETAIL 2
SCALE 1:10



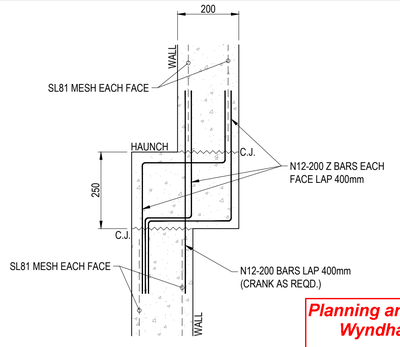
DETAIL 3
SCALE 1:10



DETAIL 4
SCALE 1:10



DETAIL 5
SCALE 1:10



DETAIL 6
SCALE 1:10

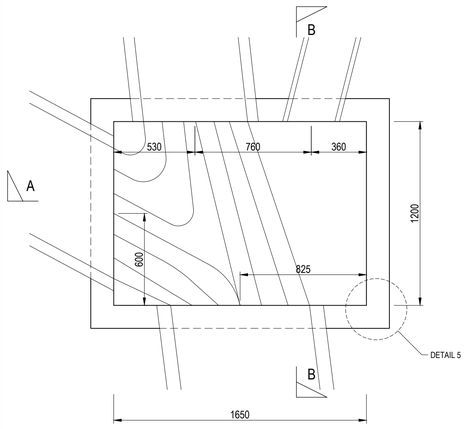
NOTES:

CONCRETE:
1. CONCRETE STRENGTH GRADE TO BE N32 STANDARD STRENGHT OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS1379.
2. ALL CORNERS SHALL HAVE 20 x 20 FILLETS OF CHAMFERS UNO.

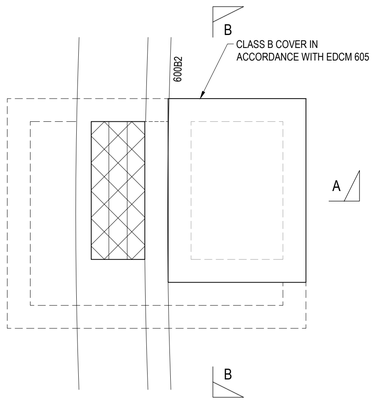
REINFORCEMENT:
3. COVER - 35mm UNO.
4. SPACING - TAKEN AS EQUAL UNO.
5. GRADE - 500(VN) TO AS4671.
6. WELDED WIRE REINFORCING FABRIS SHALL COMPLY WITH AS4671.
7. WELDING - SHALL NOT BE PERMITTED UNO.
8. STEELWORK SHALL BE HOT DIPPED GALVANISED AFTER FABRICATION IN ACCORDANCE WITH AS4680.

Planning and Environment Act 1987
Wyndham Planning Scheme

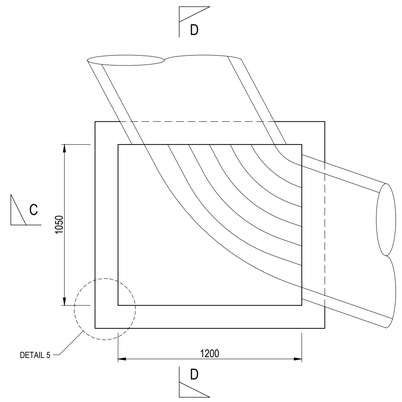
Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024



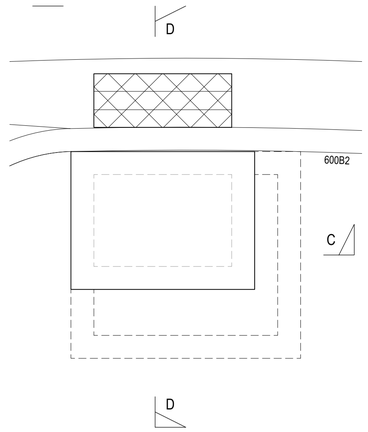
BASE LEVEL - PLAN



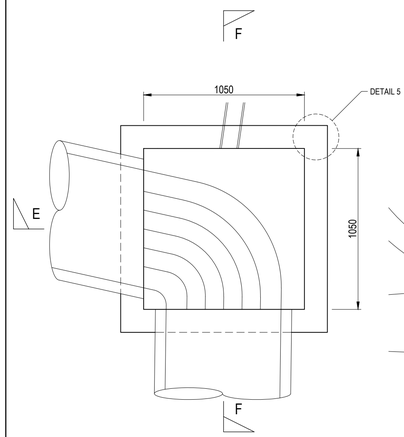
COVER LEVEL - PLAN



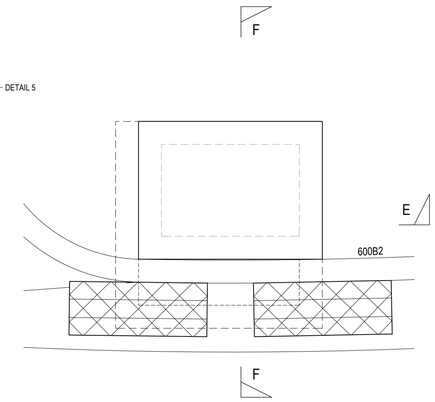
BASE LEVEL - PLAN



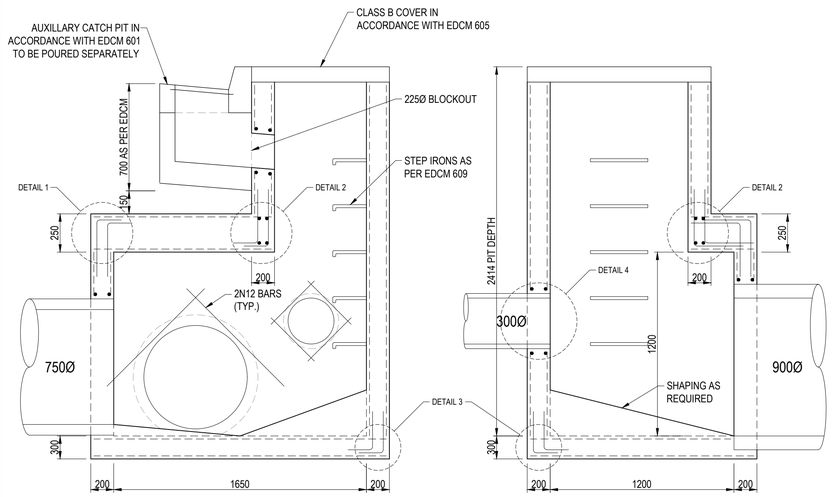
COVER LEVEL - PLAN



BASE LEVEL - PLAN



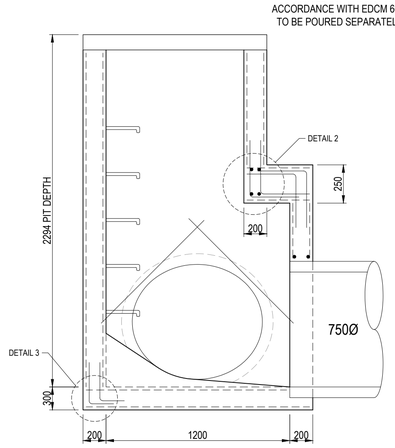
COVER LEVEL - PLAN



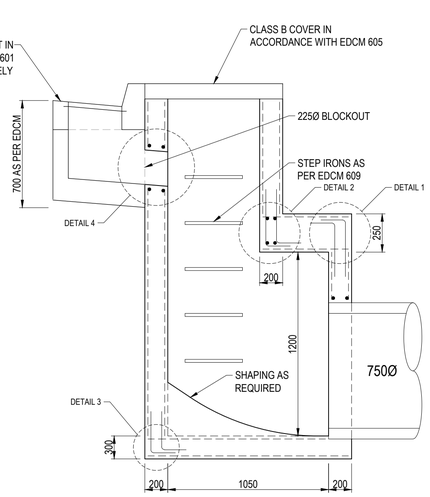
SECTION A-A

SECTION B-B

PIT 2
GENERAL ARRANGEMENT

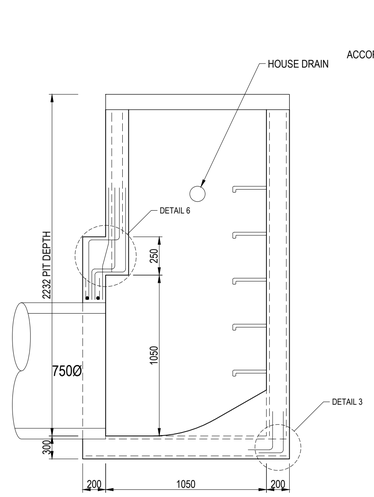


SECTION C-C

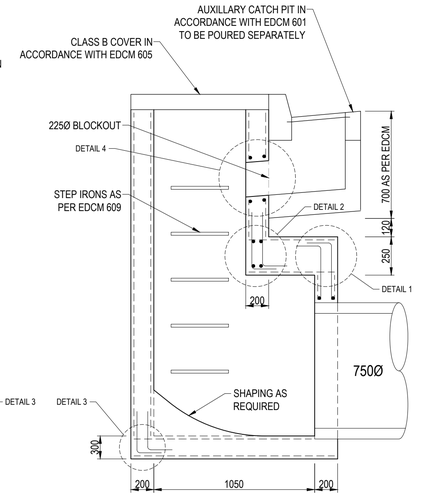


SECTION D-D

PIT 3
GENERAL ARRANGEMENT



SECTION E-E



SECTION F-F

PIT 4
GENERAL ARRANGEMENT

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
B	17/09/24	STRUCTURAL DETAILS UPDATED	A.W	A.W	M.T
A	27/08/24	COUNCIL COMMENTS - SHEET ADDED	A.W	A.W	M.T

CLIENT
villawood properties
Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT
ALAMORA Tarneit

DRAWING TITLE
ALAMORA - STAGE 15
PIT DETAILS

STATUS
ISSUED FOR CONSTRUCTION

SCALE @ A1 :
AS SHOWN

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R702	0

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 40
Permit No WYP10817/18
Date 19/02/2025

LINEMARKING & SIGNAGE NOTES:

1. ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742.1 AND AS 1742.2, UNLESS SPECIFICALLY SHOWN OTHERWISE.

2. LINEMARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT. TEMPORARY LINEMARKING USING ORDINARY PAINT IS TO BE APPLIED WHEN WEARING COURSE ASPHALT IS NOT APPLIED FOR A PERIOD OF TIME E.G. AT PRACTICAL COMPLETION.

3. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.

4. LINEMARKING SET OUT SHALL BE INSPECTED AND APPROVED BY COUNCIL BEFORE FINAL LINEMARKING IS CARRIED OUT.

5. HIGH FRICTION SURFACE TREATMENT COLOURED EMERALD GREEN MUST BE PROVIDED WITHIN THE BICYCLE LANES MARKED AS GREEN ON THE PLAN. INSTALLATION MUST COMPLY WITH VICROADS STANDARD SECTION 430 FOR HIGH FRICTION SURFACE TREATMENTS TO MANUFACTURER'S SPECIFICATIONS.

6. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPM'S AT MAX 6m SPACIN.

7. RRPM'S TO BE IN ACCORDANCE WITH VICROAD TRAFFIC ENGINEERING MANUAL VOL2.

FUTURE STAGE 19

EXISTING STAGE 11

BARCELONA WAY
PENZO WAY
FANTOVA WALK
MANTRI WALK
RIMO LANE
NALANDA ROAD
DARNA WALK
SAMIR LANE
LOPERA DRIVE
IMPLEXA DRIVE
ANDRIA DRIVE
PEDRA AVENUE

2m D E
20m D & S E
11m D & S E

SIGN SCHEDULE

SIGN	REF	QUANTITY
STREET SIGN	1	REFER TABLE
ROAD CLOSED T2-4A / D4-5	2	5No.
KEEP LEFT R2-3L	3	4No.
R1-3	4	4No.
W2-7	5	1No.
W5-10B / 20 km/h W8-2B	6	6No.
R3-1	7	12No.
GIVE WAY R1-2	8	1No.
W2-7	9	3No.

STREET SIGN SCHEDULE

IMPLEXA DRIVE	3No.
LOPERA DRIVE	2No.
NALANDA DRIVE	1No.
BARCELONA WAY	1No.
PENZO WAY	1No.
PEDRA AVENUE	1No.
ANDRIA DRIVE	1No.
SAMIR LANE	2No.
RIMO LANE	2No.
DARNA WALK	2No.
FANTOVA WALK	2No.
MANTRI WALK	2No.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	29/01/25	RAISED PAVEMENT/TGSI UPDATED	S.M	A.W	M.T
0	19/09/24	ISSUED FOR CONSTRUCTION	M.P	A.W	M.T
D	27/08/24	COUNCIL COMMENTS – TGSI ADDED & GIVE WAY LINEMARKING ADDED.	A.W	A.W	M.T
C	18/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
B	30/05/24	AMENDED LOTS ORIENTATION - LOT1517/1518	S.M	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

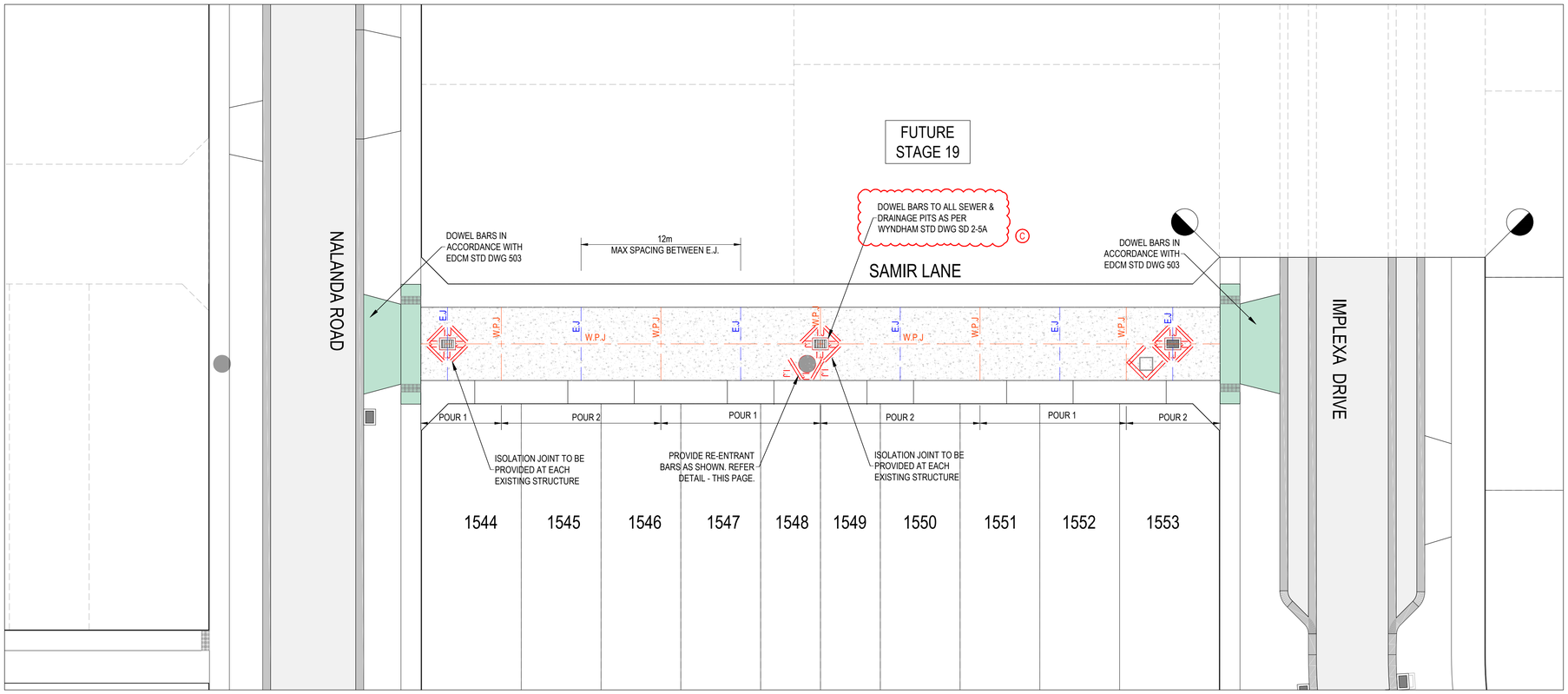
DRAWING TITLE: **ALAMORA - STAGE 15**
SIGNAGE & LINEMARKING PLAN

STATUS: **ISSUED FOR CONSTRUCTION**

SCALE @ A1 : 1:500 (0 5 10 20 30)

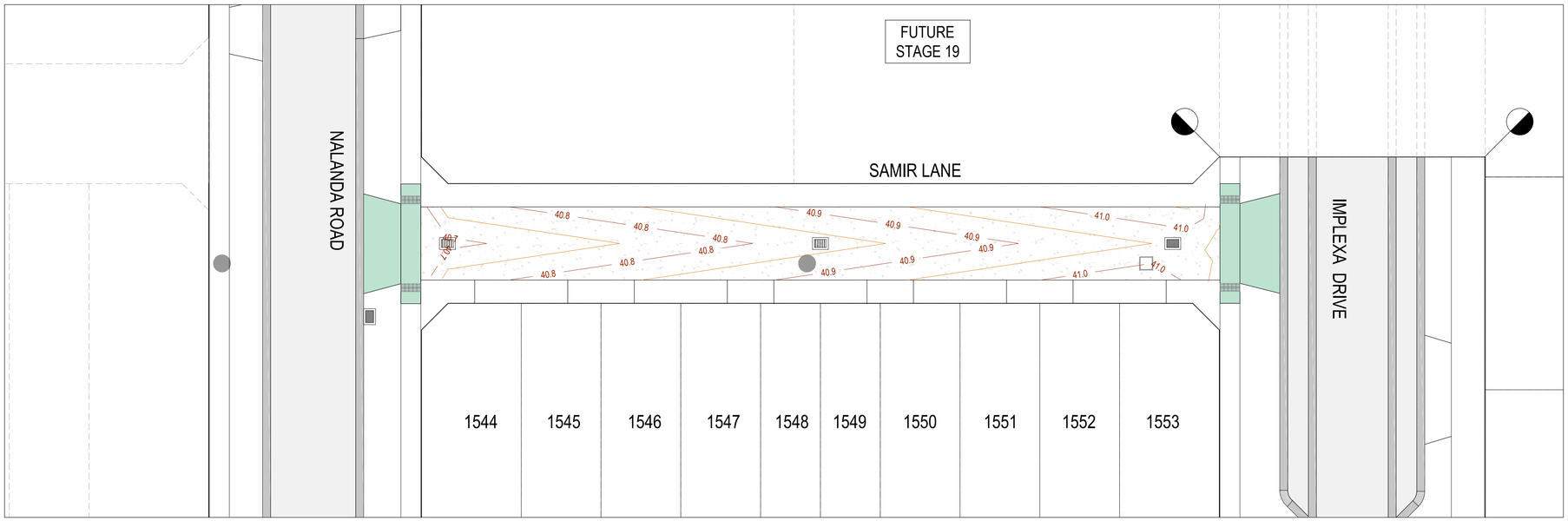
DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R800	1



CONCRETE JOINTING LAYOUT PLAN - SAMIR LANE

SCALE 1:200 @ A1



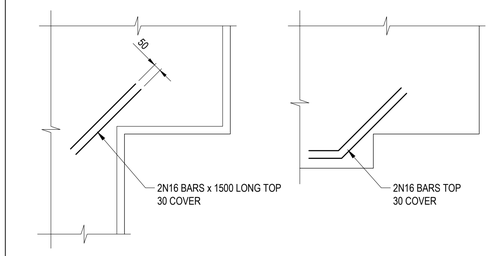
CONCRETE CONTOUR PLAN - SAMIR LANE

SCALE 1:200 @ A1

LEGEND

CONCRETE JOINING PLAN:

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- BRANCH SEWER
- HOUSE DRAIN
- TACTILE PAVERS
- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- MINOR CONTOUR
- 188.0 MAJOR CONTOUR



TYPICAL RE-ENTRANT CORNER DETAIL

SCALE 1:NTS

CONCRETE JOINT LEGEND

- I.J. ISOLATION JOINT
- W.P.J. WEAKENED PLANE JOINT
- E.J. EXPANSION CONTROL JOINT (12m Max)

FOR JOINT DETAILS REFER
STD DWG EDCM 401 & 402

NOTE:

1. CONTRACTOR TO PROVIDE 1.2m x 1.2m UNPAVED PUBLIC LIGHTING AREAS WITHIN LANEWAYS. CONTRACTOR TO REFER LATEST ELECTRICAL DRAWINGS FOR INFORMATION.

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 40
Permit No WYP10817/18
Date 13/09/2024

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

DIAL 1100 BEFORE YOU DIG

www.1100.com.au

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	19/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

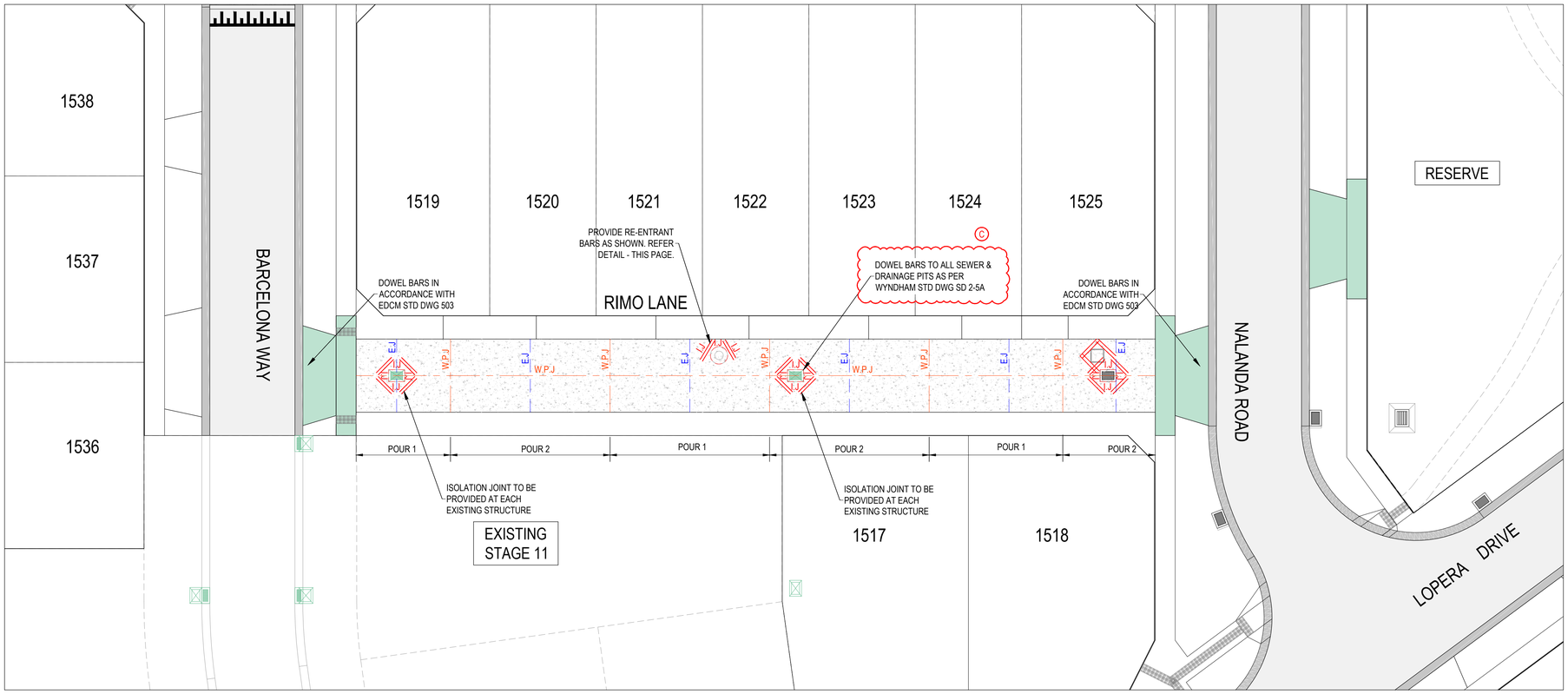
DRAWING TITLE: **ALAMORA - STAGE 15**
CONCRETE JOINTING PLAN - 1

STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:200 (2 0 2 4 6 8 10)

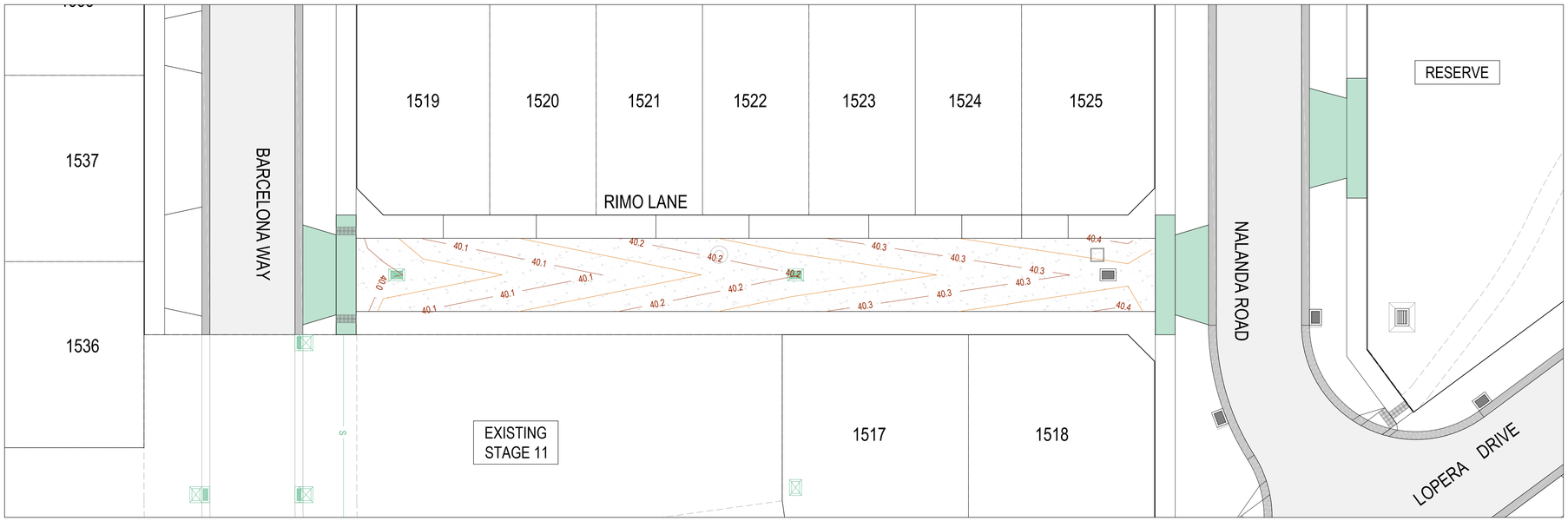
DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R900	B



CONCRETE JOINTING LAYOUT PLAN - RIMO LANE

SCALE 1:200 @ A1

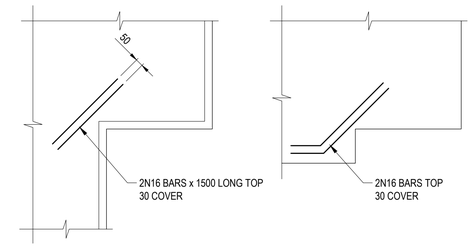


CONCRETE CONTOUR PLAN - RIMO LANE

SCALE 1:200 @ A1

LEGEND

CONCRETE JOINING PLAN:
- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- BRANCH SEWER
- HOUSE DRAIN
- TACTILE PAVERS
- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- MINOR CONTOUR
- 188.0 MAJOR CONTOUR



TYPICAL RE-ENTRANT CORNER DETAIL

SCALE 1:NTS

CONCRETE JOINT LEGEND

- I.J. ISOLATION JOINT
- W.P.J. WEAKENED PLANE JOINT
- E.J. EXPANSION CONTROL JOINT (12m Max)

FOR JOINT DETAILS REFER STD DWG EDCM 401 & 402

NOTE:
1. CONTRACTOR TO PROVIDE 1.2m x 1.2m UNPAVED PUBLIC LIGHTING AREAS WITHIN LANEWAYS. CONTRACTOR TO REFER LATEST ELECTRICAL DRAWINGS FOR INFORMATION.

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 40
Permit No WYP10817/18
Date 13/09/2024

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

DIAL 1100 BEFORE YOU DIG

www.1100.com.au

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
C	18/07/24	COUNCIL COMMENTS	A.W	A.W	M.T
B	30/05/24	AMENDED LOTS ORIENTATION - LOT1517/1518	S.M	A.W	M.T
A	17/05/24	ISSUED FOR TENDER	S.M	S.M	M.T

CLIENT: villawood properties — Communities Designed for Living

creo CIVIL
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: **ALAMORA - STAGE 15**
CONCRETE JOINTING PLAN - 2

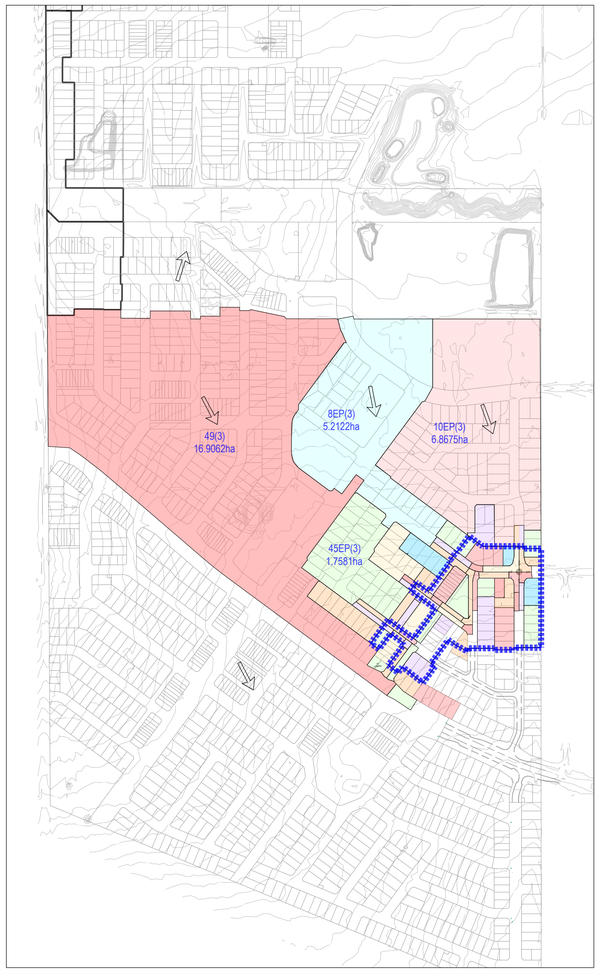
STATUS: **ISSUED FOR APPROVAL**
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:200 (2 0 2 4 6 8 10)

DESIGNED	PROJECT ENGINEER
S.M	S.M
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	R901	C

OVERALL CATCHMENT



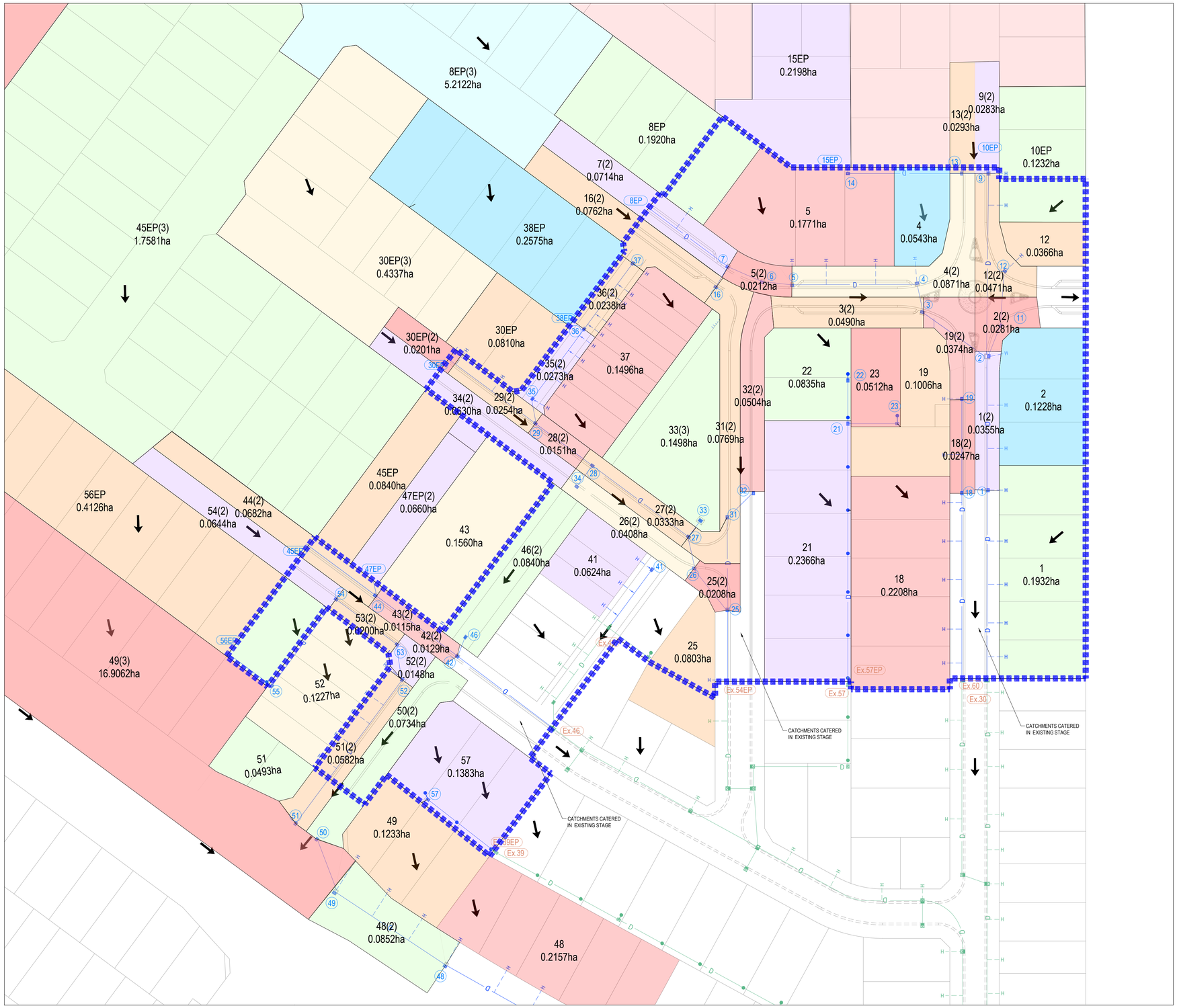
1:5000

100 50 0 100 200

LEGEND

PROPOSED DRAINAGE ALIGNMENT

EXISTING DRAINAGE ALIGNMENT



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	24/05/24	ISSUED FOR APPROVAL	SM	AW	ES

CLIENT

villawood properties

Communities Designed for Living

creo CONSULTANTS

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT

ALAMORA Tarneit

DRAWING TITLE

ALAMORA - STAGE 15
Q5 CATCHMENT PLAN

STATUS

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:750

15 0 15 30

DESIGNED	PROJECT ENGINEER
S.M	A.W
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	C200	A

Alamora - STAGE 15
DRAINAGE COMPUTATIONS - HYDRAULICS
1 in 5 YEAR ARI

DATE:	24/05/2024
REVISION	A

creo CONSULTANTS

Pipe US	Pipe DS	Pipe Length (m)	Pipe Size (mm)	Pipe Grade (1 in)	Tc (min)	Intensity (mm/hr)	Sum Ae (ha)	Pipe Flow (l/s)	Pipe Capacity (l/s)	Q/Qf	Capacity Velocity (m/s)	Cover Min (m)	US Pit Ku	Pipe V'head (m)	P'head Loss (m)	Pipe T'head Loss (m)	Pit WSE (m)	Pipe US HGL (m)	Pipe DS HGL (m)	HGL Slope (%)	HGL Grade (1 in)	Freeboard US (m)
Ex.30																	38.0					
1	Ex.30	61.6	900	181.80	11.2	59.0	7.760	1270.0	1343.0	0.95	2.1	1.6	0.3	0.2	0.1	0.3	38.4	38.3	38.0	0.5	203.4	1.3
2	1	43.3	900	181.80	10.9	60.0	7.598	1261.0	1343.0	0.94	2.1	1.5	1.7	0.2	0.3	0.2	39.0	38.6	38.4	0.5	206.3	0.8
3	2	25.3	750	57.9	10.7	60.0	3.5	587.0	1463.0	0.40	3.3	1.3	0.7	0.1	0.1	0.1	39.1	39.0	39.0	0.3	359.5	1.1
4	3	9.5	750	300.0	10.6	60.0	3.5	585.0	643.0	0.91	1.5	1.3	2.1	0.1	0.2	0.0	39.3	39.1	39.1	0.3	363.1	0.9
5	4	40.5	750	300.0	10.3	61.0	3.4	575.0	643.0	0.89	1.5	1.3	0.5	0.1	0.0	0.1	39.5	39.4	39.3	0.3	375.0	1.0
6	5	9.7	750	350.0	10.2	61.0	3.2	553.0	595.0	0.93	1.4	1.4	0.3	0.1	0.0	0.0	39.5	39.5	39.5	0.3	405.2	1.0
7	6	12.132	750	350.0	10.07	62.00	3.2440	555.0	595.0	0.93	1.35	1.40	0.32	0.08	0.03	0.03	39.55	39.52	39.49	0.25	402.1	1.01
8EP	7	32.876	750	350.0	9.80	63.00	3.1600	550.0	595.0	0.92	1.35	1.28		0.08		0.08	39.63	39.63	39.55	0.24	410.5	0.98
2																	39.01					
9	2	59.247	675	105.3	8.53	68.00	3.9210	739.0	820.0	0.90	2.29	1.51	0.24	0.22	0.05	0.46	39.46	39.41	38.95	0.77	129.4	1.17
10EP	9	3.000	675	100.0	8.50	68.00	3.7280	704.0	841.0	0.84	2.35	1.78		0.20		0.02	39.48	39.48	39.46	0.70	142.7	1.16
2																	39.01					
11	2	10.905	300	33.3	5.15	82.00	0.0590	13.0	168.0	0.08	2.37	1.49	0.26				38.95	38.95	38.95	0.02	5191.9	1.18
12	11	17.659	300	100.0	5.00	82.00	0.0590	14.0	97.0	0.14	1.37	1.29	9.70		0.02		38.98	38.96	38.95	0.02	5115.8	1.39
9																	39.46					
13	9	8.654	300	100.0	5.43	81.00	0.1730	39.0	97.0	0.40	1.37	1.12	-0.65	0.02	-0.01	0.01	39.47	39.48	39.46	0.16	620.3	1.16
14	13	36.900	225	33.3	5.12	82.00	0.1570	36.0	78.0	0.46	1.96	0.99	2.09	0.04	0.09	0.91	40.49	40.38	39.47	2.48	40.3	0.91
15EP	14	3.000	225	125.0	5.10	82.00	0.1570	36.0	40.0	0.89	1.01	0.94		0.04		0.02	40.49	40.49	40.47	0.63	158.4	0.94
7																	39.55					
16	7	7.729	300	21.4	5.00	82.00	0.0440	10.0	209.0	0.05	2.96	0.91	9.70		0.01		39.56	39.55	39.55	0.01	9404.7	0.98
Ex.60																	38.37					
18	Ex.60	60.600	300	187.2	5.25	81.00	0.2680	61.0	71.0	0.86	1.00	1.28	2.47	0.04	0.09	0.24	38.70	38.61	38.37	0.39	255.4	0.96
19	18	30.500	300	100.0	5.00	82.00	0.0930	21.0	97.0	0.22	1.37	1.08	7.00		0.03	0.01	38.75	38.72	38.70	0.05	2059.7	1.07
Ex.57																	39.21					
Ex.57EP	Ex.57	2.000	300	187.2	5.82	79.00	0.2650	58.0	71.0	0.82	1.00	1.04		0.03		0.01	39.22	39.22	39.21	0.36	277.1	0.60
21	Ex.57EP	82.500	300	187.3	5.13	82.00	0.2650	60.0	71.0	0.85	1.00	1.01	2.35	0.04	0.09	0.32	39.63	39.54	39.22	0.39	258.3	0.61
22	21	14.000	225	26.6	5.00	82.00	0.0600	14.0	87.0	0.16	2.19	0.67	9.70	0.01	0.06	0.07	39.75	39.70	39.63	0.49	202.0	0.64
21																	39.63					
23	21	16.000	225	53.8	5.00	82.00	0.0370	8.0	61.0	0.14	1.54	0.65	7.99		0.02	0.01	39.65	39.63	39.63	0.03	2890.1	0.49
Ex.54EP																	39.07					
25	Ex.54EP	23.231	525	200.0	7.24	73.00	1.0010	203.0	304.0	0.67	1.41	1.35	0.74	0.05	0.03	0.05	39.15	39.12	39.07	0.22	447.3	0.78
26	25	17.235	450	90.9	7.10	74.00	0.8590	176.0	299.0	0.59	1.88	1.38	0.48	0.06	0.03	0.07	39.25	39.22	39.15	0.38	262.6	0.86
27	26	10.434	450	200.0	7.01	74.00	0.8360	172.0	202.0	0.85	1.27	1.17	2.20	0.06	0.13	0.04	39.43	39.29	39.25	0.36	274.9	0.75
28	27	38.740	450	250.0	6.69	75.00	0.7680	161.0	180.0	0.89	1.13	1.29	0.26	0.05	0.01	0.12	39.55	39.54	39.42	0.32	314.0	0.82
29	28	22.948	450	250.0	6.50	76.00	0.7240	153.0	180.0	0.85	1.13	1.28	0.25	0.05	0.01	0.07	39.63	39.62	39.55	0.29	346.7	0.86
30EP	29	35.998	300	125.0	6.20	77.00	0.3730	80.0	87.0	0.93	1.22	1.28		0.07		0.25	39.88	39.88	39.63	0.69	145.5	0.79
25																	39.15					
31	25	29.961	300	91.5	5.10	82.00	0.0730	17.0	101.0	0.16	1.43	1.07	2.59		0.01	0.01	39.17	39.16	39.15	0.03	3400.9	0.91
32	31	11.543	300	100.0	5.00	82.00	0.0290	7.0	97.0	0.07	1.37	0.90	9.70				39.17	39.17	39.17		21475.7	0.95
27																	39.43					
33	27	6.514	225	41.5	5.00	82.00	0.0490	11.0	70.0	0.16	1.75	0.75	6.23		0.02		39.45	39.42	39.42	0.06	1634.2	0.51
28																	39.55					
34	28	8.499	300	24.5	5.00	82.00	0.0360	8.0	196.0	0.04	2.77	0.91	7.28		0.01		39.56	39.56	39.55	0.01	13774.4	0.82
29																	39.63					
35	29	8.030	300	100.0	5.77	79.00	0.3360	74.0	97.0	0.76	1.37	1.41	0.79	0.06	0.04	0.05	39.72	39.68	39.63	0.58	171.0	0.96
36	35	28.050	300	100.0	5.54	80.00	0.3120	69.0	97.0	0.72	1.37	1.31	1.10	0.05	0.05	0.14	39.92	39.87	39.72	0.51	194.3	0.9
37	36	26.500	300	66.7	5.00	82.00	0.1070	24.0	118.0	0.21	1.68	1.00	7.00	0.01	0.04	0.02	39.98	39.94	39.92	0.06	1570.1	0.98
36																	39.92					
38EP	36	4.800	300	65.0	5.50	80.00	0.1840	41.0	120.0	0.34	1.70	1.27		0.02		0.01	39.93	39.93	39.92	0.18	557.5	1.02
Ex.48																	39.04					
41	Ex.48	23.500	300	90.9	5.00	82.00	0.0460	11.0	101.0	0.10	1.44	0.96	7.00		0.01	0.29	39.33	39.33	39.04	1.23	81.5	0.98
Ex.46																	38.77					
42	Ex.46	39.047	600	350.0	8.41	68.00	1.3200	251.0	328.0	0.76	1.16	1.15	0.24	0.04	0.01	0.07	38.85	38.84	38.77	0.17	600.3	1.18
44	42	33.055	600	228.8	8.13	69.00	1.2790	247.0	406.0	0.61	1.44	1.20	0.38	0.04	0.01	0.08	38.94	38.92	38.85	0.23	438.0	1.25
45EP	44	28.000	600	350.0	7.90	70.00	1.2030	235.0	328.0	0.72	1.16	1.17		0.04		0.11	39.05	39.05	38.94	0.41	242.7	1.27
42																	38.85					
46	42	6.631	300	25.0	5.00	82.00	0.0340	8.0	193.0	0.04	2.74	1.03	7.00			0.15	39.00	38.99	38.85	2.21	45.3	1.03
44																	38.94					
47EP	44	5.614	300	100.0	5.00	82.00	0.0380	9.0	97.0	0.09	1.37	1.26	2.00			0.04	38.98	38.98	38.94	0.74	135.2	1.36
Ex.25																	37.91					
48	Ex.25	61.161	1200	400.0	12.36	56.00	11.8280	1851.0	1950.0	0.95	1.72	0.98	0.33	0.14	0.05	0.14	38.09	38.05	37.91	0.23	444.1	0.78
49	48	42.941	1200	400.0	12.00	57.00	11.6260	1846.0	1950.0	0.95	1.72	1.09		0.14		0.10	38.19	38.19	38.09	0.22	446.5	0.89
50	49	18.004	375	100.0	7.30	73.00	0.5490	111.0	175.0	0.63	1.59	1.24	0.79	0.05	0.04	0.07	38.30	38.26	38.19	0.40	248.8	1.11
51	50	8.502	375	200.0	7.23	73.00	0.5070	103.0	124.0	0.83	1.12	1.12	2.03	0.04	0.09	0.03	38.44	38.33	38.30	0.35	289.4	0.97
52	51	57.995	375	200.0	6.74	75.00	0.4380	92.0	124.0	0.74	1.12	1.24	2.45	0.04	0.09	0.16	38.68	38.58	38.42	0.27	366.5	1.14
53	52	11.526	375	200.0	6.65	76.00	0.3420	72.0	124.0	0.58	1.12	1.31	2.41	0.02	0.05	0.02	38.75	38.69	38.67	0.17	594.5	1.36
54	53	24.599	375	200.0	6.44	76.00	0.3310	70.0	124.0	0.57	1.12	1.48	2.15	0.02	0.04	0.04	38.83	38.78	38.74	0.16	622.4	1.39
55	54	34.901	300	125.0	6.15	78.00	0.2940	63.0	87.0	0.73	1.22	1.04	2.09	0.04	0.09	0.15	39.08	38.97	38.82	0.43	232.4	0.95
56EP	55	18.000	300	142.9	6.00	78.00	0.2940	64.0	81.0	0.79	1.15	0.97		0.04		0.08	39.14	39.14	39.06	0.47	214.4	1
Ex.39																	39.01					
Ex.39EP	Ex.39	2.002	225	125.0	5.22	82.00	0.0990	22.0	40.0	0.56	1.01	0.83		0.02			39.01	39.01	39.01	0.25	405.1	0.63
57	Ex.39EP	25.997	225	125.0	5.00	82.00	0.0990	23.0	40.0	0.56	1.01	0.71	7.47	0.02	0.12	0.07	39.20	39.08	39.01	0.25	396.3	0.53

Alamora - STAGE 15
DRAINAGE COMPUTATIONS - HYDROLOGY

DATE:	24/05/2024
REVISION:	A

creo CONSULTANTS

Pit	Pit Type	Setout			Catch ID	Tc	Intensity	CofR	Area	Ae	Sum Ae	Approach Flow
		Easting (m)	Northing (m)	RL (m)		(min)	(mm/hr)		(ha)	(ha)	(ha)	l/s
Ex.30	ExPIT	292318.39	5807574.26	39.35								
1	SEP	292326.82	5807635.28	39.66	1P	5	82.4	0.71	0.1932	0.1377	0.1626	37.2
					2P	5	82.4	0.7	0.0355	0.0248		
2	SEP	292332.74	5807678.13	39.8	1P	5	82.4	0.71	0.1228	0.0876	0.1072	24.5
					2P	5	82.4	0.7	0.0281	0.0197		
3	SEP	292313.9	5807694.97	40.19	2P	5	82.4	0.57	0.049	0.028	0.028	6.4
4	SEP	292313.48	5807704.48	40.21	1P	5	82.4	0.71	0.0543	0.0387	0.0997	22.8
					2P	5	82.4	0.7	0.0871	0.0609		
5	SEP	292273.3	5807709.79	40.43	1P	5	82.4	0.71	0.1771	0.1263	0.1384	31.7
					2P	5	82.4	0.57	0.0212	0.0121		
6	JP	292263.93	5807712.17	40.49								
7	SEP	292253.56	5807718.47	40.55	2P	5	82.4	0.57	0.0714	0.0409	0.0409	9.4
8EP	ENDPIPE	292230.74	5807740.73	40.61	1P	9.8	62.62	0.71	0.192	0.1369	3.16	549.7
					3P	5	82.4	0.58	5.2122	3.0231		
9	SEP	292341.3	5807736.85	40.63	2P	5	82.4	0.7	0.0283	0.0198	0.0198	4.5
10EP	ENDPIPE	292341.63	5807739.23	40.64	1P	8.5	67.98	0.71	0.1232	0.0878	3.7276	703.9
					3P	5	82.4	0.53	6.8675	3.6398		
11	JP	292338.49	5807687.4	40.14								
12	SEP	292342.14	5807704.67	40.36	1P	5	82.4	0.71	0.0366	0.0261	0.0591	13.5
					2P	5	82.4	0.7	0.0471	0.033		
13	SEP	292332.73	5807738.03	40.62	2P	5	82.4	0.57	0.0293	0.0167	0.0167	3.8
14	JP	292296.18	5807743.08	41.4								
15EP	ENDPIPE	292296.51	5807745.46	41.42	1P	5.1	81.99	0.71	0.2198	0.1567	0.1567	35.7
16	SEP	292248.76	5807712.42	40.54	2P	5	82.4	0.57	0.0762	0.0436	0.0436	10
Ex.60	ExPIT	292310.27	5807575.38	39.36								
18	SEP	292318.56	5807635.41	39.67	1P	5	82.4	0.71	0.2208	0.1574	0.1747	40
					2P	5	82.4	0.7	0.0247	0.0173		
19	SEP	292322.73	5807665.62	39.82	1P	5	82.4	0.71	0.1006	0.0717	0.0931	21.3
					2P	5	82.4	0.57	0.0374	0.0214		
Ex.57	ExPIT	292273.53	5807579.04	39.81								
Ex.57EP	ExEP	292273.8	5807581.02	39.82								
21	JP	292285.09	5807662.74	40.24	1P	5	82.4	0.71	0.2366	0.1687	0.1687	38.6
22	JP	292287	5807676.61	40.4	1P	5	82.4	0.71	0.0835	0.0596	0.0596	13.6
23	JP	292300.94	5807660.56	40.14	1P	5	82.4	0.71	0.0512	0.0365	0.0365	8.4
Ex.54EP	ExEP	292235.08	5807585.36	39.81								
25	SEP	292238.26	5807608.37	39.93	1P	5	82.4	0.71	0.0803	0.0572	0.0691	15.8
					2P	5	82.4	0.57	0.0208	0.0119		
26	SEP	292229.32	5807623.11	40.11	2P	5	82.4	0.57	0.0408	0.0234	0.0234	5.3
27	SEP	292228.94	5807633.53	40.18	2P	5	82.4	0.57	0.0333	0.019	0.019	4.4
28	SEP	292201.25	5807660.63	40.38	2P	5	82.4	0.57	0.0151	0.0086	0.0086	2
29	SEP	292184.85	5807676.68	40.49	2P	5	82.4	0.57	0.0254	0.0145	0.0145	3.3
30EP	ENDPIPE	292159.83	5807701.16	40.67	1P	6.2	77.46	0.71	0.081	0.0577	0.3728	80.2
					2P	5	82.4	0.57	0.0201	0.0115		
					3P	5	82.4	0.7	0.4337	0.3036		
31	SEP	292242.21	5807638.07	40.08	2P	5	82.4	0.57	0.0769	0.044	0.044	10.1
32	SEP	292251.7	5807644.64	40.13	2P	5	82.4	0.57	0.0504	0.0288	0.0288	6.6
33	GP	292232.43	5807637.11	39.96	3P	5	82.4	0.32	0.1498	0.0485	0.0485	11.1
34	SEP	292195.3	5807654.55	40.38	2P	5	82.4	0.57	0.063	0.036	0.036	8.2
35	GP	292185.01	5807684.71	40.68	2P	5	82.4	0.9	0.0273	0.0246	0.0246	5.6
36	GP	292204.63	5807704.76	40.83	2P	5	82.4	0.9	0.0238	0.0214	0.0214	4.9
37	JP	292223.17	5807723.69	40.96	1P	5	82.4	0.71	0.1496	0.1067	0.1067	24.4
38EP	ENDPIPE	292201.41	5807707.9	40.95	1P	5.5	80.34	0.71	0.2575	0.1836	0.1836	41
Ex.48	ExPIT	292199.31	5807607.82	40.2								
41	JP	292215.75	5807624.61	40.31	1P	5	82.4	0.71	0.0624	0.0445	0.0445	10.2
Ex.46	ExPIT	292177.2	5807577.93	39.81								
42	SEP	292149.56	5807605.52	40.02	2P	5	82.4	0.57	0.025	0.0143	0.0143	3.3
44	SEP	292125.93	5807628.63	40.19	2P	5	82.4	0.57	0.0682	0.039	0.039	8.9
45EP	ENDPIPE	292106.57	5807647.46	40.33	1P	7.9	70.45	0.71	0.084	0.0599	1.2027	235.4
					3P	5	82.4	0.65	1.7581	1.1428		
46	GP	292152.95	5807611.22	40.03	1P	5	82.4	0.71	0.156	0.1112	0.1448	33.1
					2P	5	82.4	0.4	0.084	0.0336		
47EP	ENDPIPE	292125.84	5807634.25	40.34	2P	5	82.4	0.57	0.066	0.0378	0.0378	8.6
Ex.25	ExPIT	292180.73	5807469.8	38.56								
48	SEP	292132.16	5807506.97	38.87	1P	5	82.4	0.71	0.2157	0.1538	0.2025	46.4
					2P	5	82.4	0.57	0.0852	0.0487		
49	SEP	292099.91	5807535.33	39.08	1P	5	82.4	0.71	0.1233	0.0879	11.0769	1758.8
					3P	12	57.16	0.65	16.9062	10.989		
50	SEP	292096.31	5807552.97	39.41	2P	5	82.4	0.57	0.0734	0.042	0.042	9.6
51	SEP	292090.23	5807558.92	39.41	1P	5	82.4	0.71	0.0493	0.0352	0.0684	15.7
					2P	5	82.4	0.57	0.0582	0.0333		
52	SEP	292130.79	5807600.37	39.82	1P	5	82.4	0.71	0.1227	0.0875	0.096	22
					2P	5	82.4	0.57	0.0148	0.0085		
53	SEP	292130.67	5807611.89	40.11	2P	5	82.4	0.57	0.02	0.0115	0.0115	2.6
54	SEP	292113.09	5807629.1	40.23	2P	5	82.4	0.57	0.0644	0.0368	0.0368	8.4
55	JP	292088.68	5807604.15	40.03								
56EP	ENDPIPE	292076.17	5807616.39	40.14	1P	6	78.28	0.71	0.4126	0.2942	0.2942	64
Ex.39	ExPIT	292153.24	5807540.75	39.63								
Ex.39EP	ExEP	292151.85	5807542.19	39.64								
57	JP	292133.71	5807560.81	39.73	1P	5	82.4	0.71	0.1383	0.0986	0.0986	22.6

LEGEND

OVERLAND FLOW DIRECTION

OVERLAND FLOW PATH

'CATCHMENT H'
ROADS = 1,003m2
ALLOTMENTS = 1,373m2
TOTAL = 2,376m2

'CATCHMENT J'
ROADS = 3,175m2
ALLOTMENTS = 9,375m2
TOTAL = 12,550m2

'CATCHMENT A'
ROADS = 15,461m2
ALLOTMENTS = 38,285m2
RESERVES = 19,508m2
TOTAL = 73,254m2

'CATCHMENT G'
ROADS = 1,446m2
ALLOTMENTS = 1,161m2
RESERVES = 939m2
TOTAL = 3,546m2

'CATCHMENT I'
ROADS = 793m2
ALLOTMENTS = 184m2
TOTAL = 977m2

'CATCHMENT B'
ROADS = 4,920m2
ALLOTMENTS = 6,825m2
TOTAL = 11,745m2

'CATCHMENT F'
ROADS = 3,660m2
LANEWAY= 550m2
ALLOTMENTS = 7,073m2
RESERVES = 320m2
TOTAL = 11,600m2

'CATCHMENT E'
ROADS = 1,755m2
LANEWAY = 540m2
ALLOTMENTS = 3,000m2
TOTAL = 5,295m2

'CATCHMENT C'
ROADS = 5,490m2
ALLOTMENTS = 14,510m2
TOTAL = 20,000m2

'CATCHMENT D'
ROADS = 890m2
ALLOTMENTS = 810m2
TOTAL = 1,700m2

LENGTH = 445m
ANDRIA DRIVE
SECTION A
LENGTH = 147m
PEDRA AVENUE
SECTION J
SECTION H
IMPLEXA DRIVE
LENGTH = 63m
SECTION B
LOPERA DRIVE
LENGTH = 86m
SECTION G
LENGTH = 49m
SECTION I
DARNA WALK
SECTION F
LENGTH = 231m
SAMIR LANE
NALANDA ROAD
RIMO LANE
SECTION E
LENGTH = 255m
LENGTH = 57m
SECTION C
LENGTH = 60m
LENGTH = 330m
BARCELONA WAY
PENZO WAY
SECTION D

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	24/05/24	ISSUED FOR APPROVAL	SM	AW	MT

CLIENT: villawood properties — Communities Designed for Living

creo CONSULTANTS
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT: ALAMORA Tarneit

DRAWING TITLE: ALAMORA - STAGE 15
Q100 CATCHMENT PLAN

STATUS: ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:1000
10 0 10 20 30 40 50

N

DESIGNED	PROJECT ENGINEER
S.M	A.W
DRAWN	PROJECT MANAGER
S.M	M.T

PROJECT No.	DRAWING No.	REVISION
200282.15	C100	A

Project:	Alamora Stage 15
Job No.:	200282.15
Council:	WYNDHAM
Region:	SOUTH WEST / WEST REGION
Design Standard:	GAA

Residential high: High densities. (Allotment size <450m2)
Road Zone Category 1: Major roads and freeways.
Road Zone Category 2: Secondary and local roads.
Main zone for public open space, incl. golf courses.

creo CONSULTANTS

Prepared by:	S.Murad
Revision:	A
Date:	24/05/2024

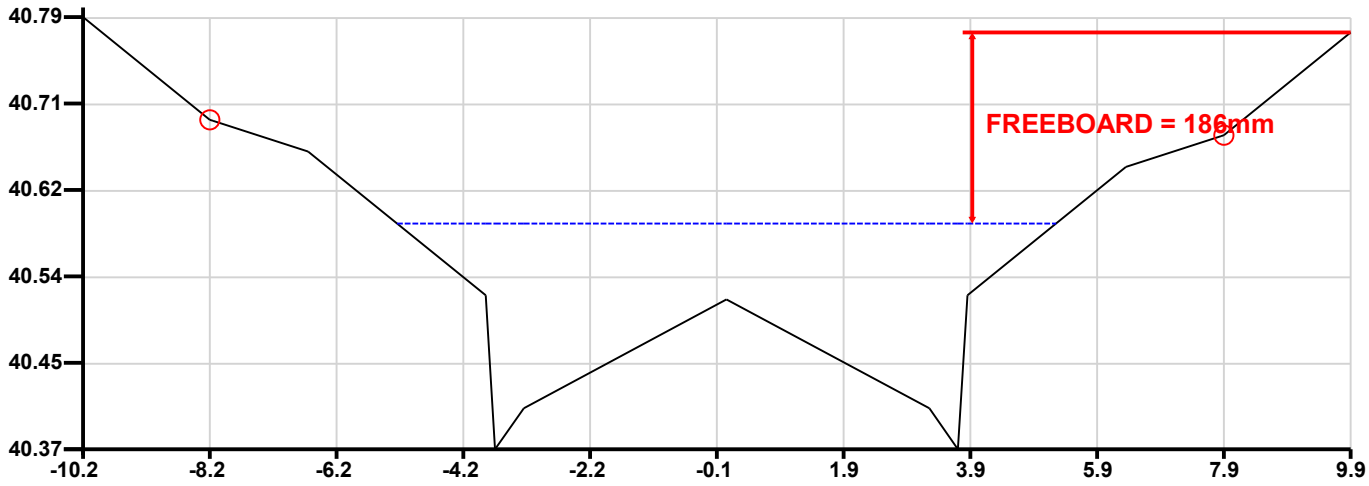
ZONE	Residential	Roads	Roads	Public Land
LAND USE	**Residential high**	**Road Zone Category 1**	**Road Zone Category 2**	**Public Park and Recreation Zone**
C5	0.71	0.86	0.57	0.32
C10	0.75	0.90	0.60	0.34
C100	0.90	1.00	0.72	0.41

					Sub Area
CATCHMENT AREAS	**ha**	**ha**	**ha**	**ha**	**ha**
A	3.83		1.55	1.95	7.33
B	0.68		0.49		1.17
C	1.45		0.55		2.00
D	0.08		0.09		0.17
E	0.30	0.05	0.18		0.53
F	0.71	0.06	0.37	0.03	1.16
G	0.12		0.14	0.09	0.35
H	0.14		0.10		0.24
I	0.02		0.08		0.10
J	0.94		0.32		1.26
TOTAL	8.26	0.11	3.86	2.08	14.3046

						CATCHMENT RATIONAL METHOD					TIME OF CONCENTRATION		5 YEAR FLOW			100 YEAR FLOW				GAP FLOW
			Residential high	**Road Zone Category 1**	**Road Zone Category 2**	**Public Park and Recreation Zone**	**Total Area**	**Length**	**Velocity**	**Saturation Time**	**Tc Method**	**Sub-catchment tc w/o Sat.**	**Critical Catchment**	**Calculated Tc**	A_e	**I**	**Q**	A_e	**I**	**Q**	**PIPE ARI**	**EXCESS Q100 - QPIPE**
NODE	**DESCRIPTION**	**CONTRIBUTING CATCHMENTS**	**ha**	**ha**	**ha**	**ha**	**ha**	**m**	**m/s**	**min**		**min**		**min**	**ha**	**mm/hr**	m^3/s	**ha**	**mm/hr**	m^3/s		m^3/s
A	**SECTION A**	A	3.83		1.55	1.95	7.33	**456**	**0.9**	**5**	**RATIONAL METHOD**	8.3	**A**	**13.3**	4.25	53.6	0.63	5.36	112.9	1.68	**5 YEAR FLOW**	1.050
B	**SECTION B**	B	0.68		0.49		1.17	**231**	**0.7**	**5**	**RATIONAL METHOD**	5.5	**B**	**10.5**	0.77	60.4	0.13	0.97	126.8	0.34	**5 YEAR FLOW**	0.213
C	**SECTION C**	C	1.45		0.55		2.00	**330**	**0.8**	**5**	**RATIONAL METHOD**	6.9	**C**	**11.9**	1.35	56.8	0.21	1.70	119.4	0.57	**5 YEAR FLOW**	0.352
D	**SECTION D**	(C/2) + D	0.81		0.36		1.17	**60**	**0.8**	**5**	**RATIONAL METHOD**	1.3	**C**	**13.1**	0.78	53.9	0.12	0.99	113.5	0.31	**5 YEAR FLOW**	0.195
E	**SECTION E**	(C/2) + E	1.03	0.05	0.45		1.53	**57**	**0.7**	**5**	**RATIONAL METHOD**	1.3	**C**	**13.2**	1.03	53.8	0.15	1.30	113.3	0.41	**5 YEAR FLOW**	0.255
F	**SECTION F**	F	0.71	0.06	0.37	0.03	1.16	**255**	**0.7**	**5**	**RATIONAL METHOD**	6.1	**F**	**11.1**	0.77	58.8	0.13	0.97	123.6	0.33	**5 YEAR FLOW**	0.207
G	**SECTION G**	(B/2) + G	0.46		0.39	0.09	0.94	**86**	**0.6**	**5**	**RATIONAL METHOD**	2.4	**B**	**12.9**	0.58	54.4	0.09	0.73	114.6	0.23	**5 YEAR FLOW**	0.145
H	**SECTION H**	(B/2) + H	0.48		0.35		0.82	**75**	**0.5**	**5**	**RATIONAL METHOD**	2.5	**B**	**13.0**	0.54	54.2	0.08	0.68	114.1	0.22	**5 YEAR FLOW**	0.135
I	**SECTION I**	(B/2)+F+G+I	1.18	0.06	0.84	0.13	2.20	**49**	**0.8**	**5**	**RATIONAL METHOD**	1.0	**G**	**13.9**	1.41	52.3	0.20	1.78	110.1	0.54	**5 YEAR FLOW**	0.339
J	**SECTION J**	(B/2)+A+H+J	5.24		2.21	1.95	9.41	**137**	**0.9**	**5**	**RATIONAL METHOD**	2.7	**A**	**15.9**	5.64	48.6	0.76	7.12	102.4	2.03	**5 YEAR FLOW**	1.264

PROJECT: Alamora Stage 15
Section A Ch24.19
Print-out date: 08/05/2024 - Time: 10:14
Data File: Section A Ch24.190 Andria Drive.dat

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 1.05 cumecs

There is no pipe discharge
Overland / Channel / Watercourse discharge = 1.050 cumecs

3. RESULTS: Water surface elevation = 40.590m

Main Waterway grade = 1 in 160, Main Channel / Low Flow Channel grade = 1 in 160.

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	1.05	0.00	1.05
D(Max) = Max. Depth (m):	0.00	0.22	0.00	0.22
D(Ave) = Ave. Depth (m):	0.00	0.11	0.00	0.11
V = Ave. Velocity (m/s):	0.00	0.92	0.00	0.92
D(Max) x V (cumecs/m):	0.00	0.20	0.00	0.20
D(Ave) x V (cumecs/m):	0.00	0.10	0.00	0.10
Froude Number:	0.00	0.89	0.00	0.89
Area (m^2):	0.00	1.13	0.00	1.13
Wetted Perimeter (m):	0.00	10.53	0.00	10.53
Flow Width (m):	0.00	10.40	0.00	10.40
Hydraulic Radius (m):	0.00	0.11	0.00	0.11
Composite Manning's n:	0.000	0.019	0.000	0.019
Split Flow?	-	-	-	No

4. CROSS-SECTION DATA:

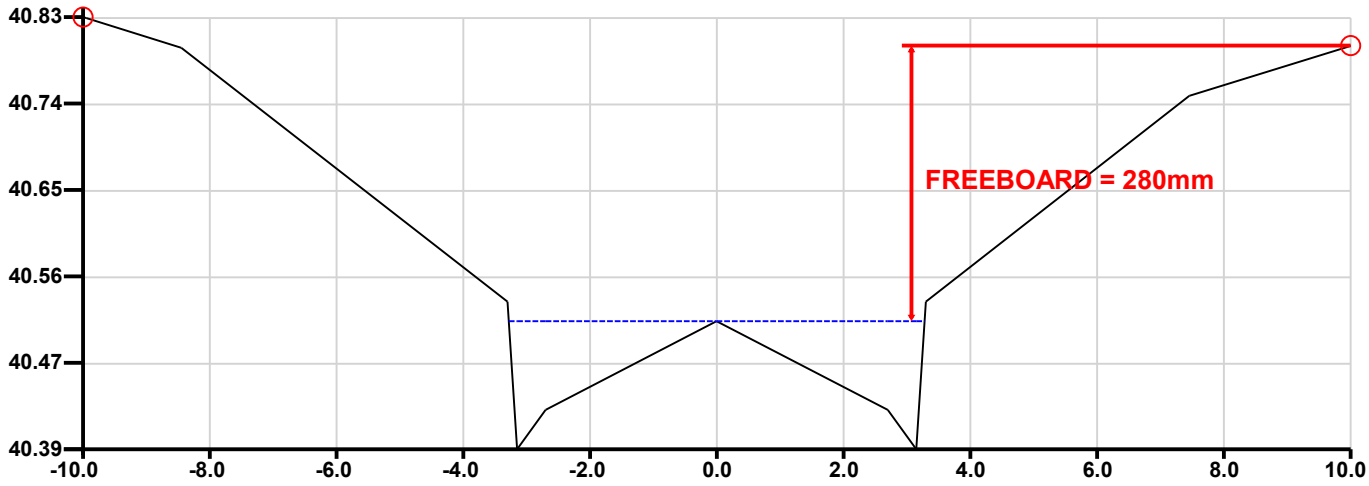
	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-10.150	40.791	-8.150	40.691	0.035
2	-8.150	40.691	-8.100	40.690	0.035
3	-8.100	40.690	-6.600	40.660	0.013
4	-6.600	40.660	-3.800	40.520	0.020
5	-3.800	40.520	-3.650	40.370	0.013
6	-3.650	40.370	-3.200	40.410	0.013
7	-3.200	40.410	0.000	40.516	0.015
8	0.000	40.516	3.200	40.410	0.015
9	3.200	40.410	3.650	40.370	0.013
10	3.650	40.370	3.800	40.520	0.013
11	3.800	40.520	6.300	40.645	0.035
12	6.300	40.645	7.800	40.675	0.013

4. CROSS-SECTION DATA: (continued)

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	LEFT HAND POINT R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	RIGHT HAND POINT R.L. (m)	MANNING'S N
13	7.800	40.675	7.850	40.676	0.035
14	7.850	40.676	9.850	40.776	0.035

PROJECT: Alamora Stage 15
Section B - Ch173.139
Print-out date: 08/05/2024 - Time: 11:42
Data File: Section B Ch173.139.dat

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.213 cumecs

There is no pipe discharge
Overland / Channel / Watercourse discharge = 0.213 cumecs

3. RESULTS: Water surface elevation = 40.517m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

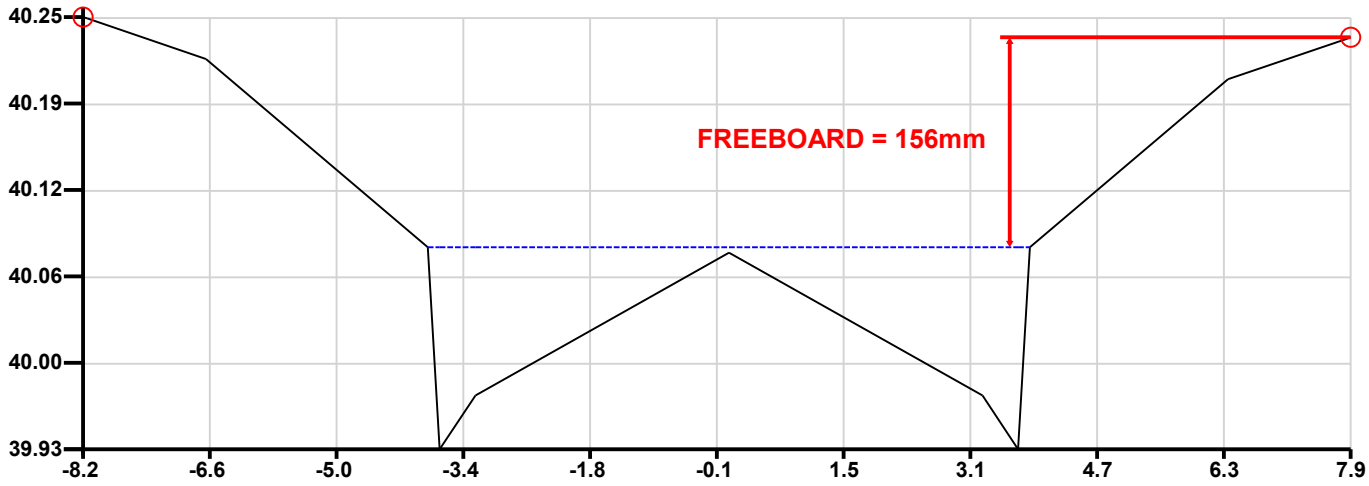
	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.25	0.00	0.25
D(Max) = Max. Depth (m):	0.00	0.13	0.00	0.13
D(Ave) = Ave. Depth (m):	0.00	0.05	0.00	0.05
V = Ave. Velocity (m/s):	0.00	0.69	0.00	0.69
D(Max) x V (cumecs/m):	0.00	0.09	0.00	0.09
D(Ave) x V (cumecs/m):	0.00	0.04	0.00	0.04
Froude Number:	0.00	0.94	0.00	N/A
Area (m^2):	0.00	0.36	0.00	0.36
Wetted Perimeter (m):	0.00	6.67	0.00	6.67
Flow Width (m):	0.00	6.56	0.00	6.56
Hydraulic Radius (m):	0.00	0.05	0.00	0.05
Composite Manning's n:	0.000	0.015	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-10.000	40.826	-9.950	40.825	0.020
2	-9.950	40.825	-8.450	40.795	0.013
3	-8.450	40.795	-3.300	40.537	0.020
4	-3.300	40.537	-3.150	40.387	0.013
5	-3.150	40.387	-2.700	40.427	0.013
6	-2.700	40.427	0.000	40.517	0.015
7	0.000	40.517	2.700	40.427	0.015
8	2.700	40.427	3.150	40.387	0.013
9	3.150	40.387	3.300	40.537	0.013
10	3.300	40.537	7.460	40.746	0.020
11	7.460	40.746	9.960	40.796	0.013
12	9.960	40.796	10.010	40.797	0.020

PROJECT: Alamora Stage 15
Section C Ch209.892
Print-out date: 07/05/2024 - Time: 17:40
Data File: Section C Ch209.892.dat

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.352 cumecs

There is no pipe discharge
Overland / Channel / Watercourse discharge = 0.352 cumecs

3. RESULTS: Water surface elevation = 40.081m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

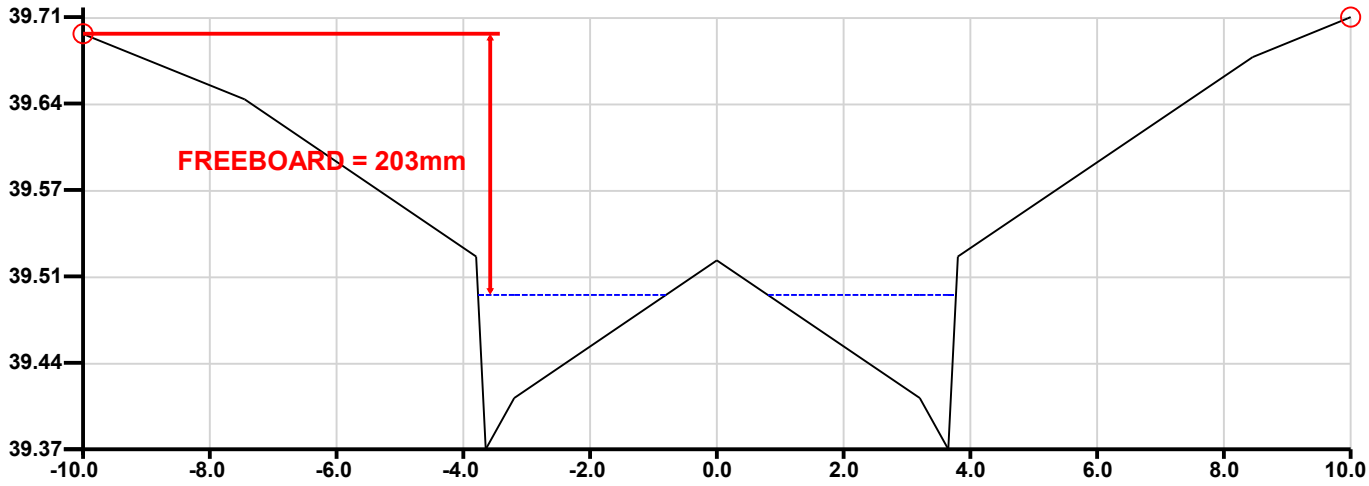
	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.39	0.00	0.39
D(Max) = Max. Depth (m):	0.00	0.15	0.00	0.15
D(Ave) = Ave. Depth (m):	0.00	0.07	0.00	0.07
V = Ave. Velocity (m/s):	0.00	0.78	0.00	0.78
D(Max) x V (cumecs/m):	0.00	0.12	0.00	0.12
D(Ave) x V (cumecs/m):	0.00	0.05	0.00	0.05
Froude Number:	0.00	0.97	0.00	0.97
Area (m^2):	0.00	0.50	0.00	0.50
Wetted Perimeter (m):	0.00	7.73	0.00	7.73
Flow Width (m):	0.00	7.60	0.00	7.60
Hydraulic Radius (m):	0.00	0.07	0.00	0.07
Composite Manning's n:	0.000	0.015	0.000	0.015
Split Flow?	-	-	-	No

4. CROSS-SECTION DATA:

	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-8.150	40.252	-8.100	40.251	0.035
2	-8.100	40.251	-6.600	40.221	0.013
3	-6.600	40.221	-3.800	40.081	0.020
4	-3.800	40.081	-3.650	39.931	0.013
5	-3.650	39.931	-3.200	39.971	0.013
6	-3.200	39.971	0.000	40.077	0.015
7	0.000	40.077	3.200	39.971	0.015
8	3.200	39.971	3.650	39.931	0.013
9	3.650	39.931	3.800	40.081	0.013
10	3.800	40.081	6.300	40.206	0.035
11	6.300	40.206	7.800	40.236	0.013
12	7.800	40.236	7.850	40.237	0.035

PROJECT: Alamora Stage 15
Section D Ch51.366
Print-out date: 07/05/2024 - Time: 17:40
Data File: Section D Ch51.366.dat

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.195 cumecs

There is no pipe discharge
Overland / Channel / Watercourse discharge = 0.195 cumecs

3. RESULTS: Water surface elevation = 39.493m

Main Waterway grade = 1 in 140, Main Channel / Low Flow Channel grade = 1 in 140.

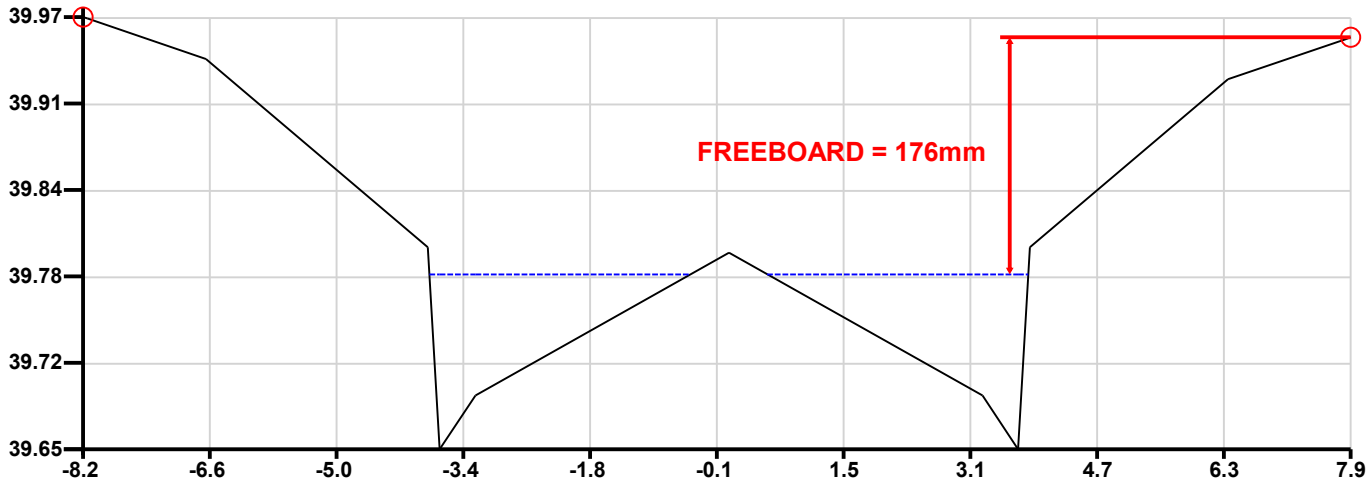
	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.23	0.00	0.23
D(Max) = Max. Depth (m):	0.00	0.12	0.00	0.12
D(Ave) = Ave. Depth (m):	0.00	0.05	0.00	0.05
V = Ave. Velocity (m/s):	0.00	0.78	0.00	0.78
D(Max) x V (cumecs/m):	0.00	0.09	0.00	0.09
D(Ave) x V (cumecs/m):	0.00	0.04	0.00	0.04
Froude Number:	0.00	1.11	0.00	N/A
Area (m^2):	0.00	0.30	0.00	0.30
Wetted Perimeter (m):	0.00	6.03	0.00	6.03
Flow Width (m):	0.00	5.93	0.00	5.93
Hydraulic Radius (m):	0.00	0.05	0.00	0.05
Composite Manning's n:	0.000	0.015	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-10.000	39.696	-9.950	39.695	0.035
2	-9.950	39.695	-7.450	39.645	0.013
3	-7.450	39.645	-3.800	39.523	0.020
4	-3.800	39.523	-3.650	39.373	0.013
5	-3.650	39.373	-3.200	39.413	0.013
6	-3.200	39.413	0.000	39.520	0.015
7	0.000	39.520	3.200	39.413	0.015
8	3.200	39.413	3.650	39.373	0.013
9	3.650	39.373	3.800	39.523	0.013
10	3.800	39.523	8.450	39.678	0.020
11	8.450	39.678	9.950	39.708	0.013
12	9.950	39.708	10.000	39.709	0.035

PROJECT: Alamora Stage 15
Section E Ch154.092
Print-out date: 07/05/2024 - Time: 17:41
Data File: Section E Ch154.092.dat

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.255 cumecs

There is no pipe discharge
Overland / Channel / Watercourse discharge = 0.255 cumecs

3. RESULTS: Water surface elevation = 39.782m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

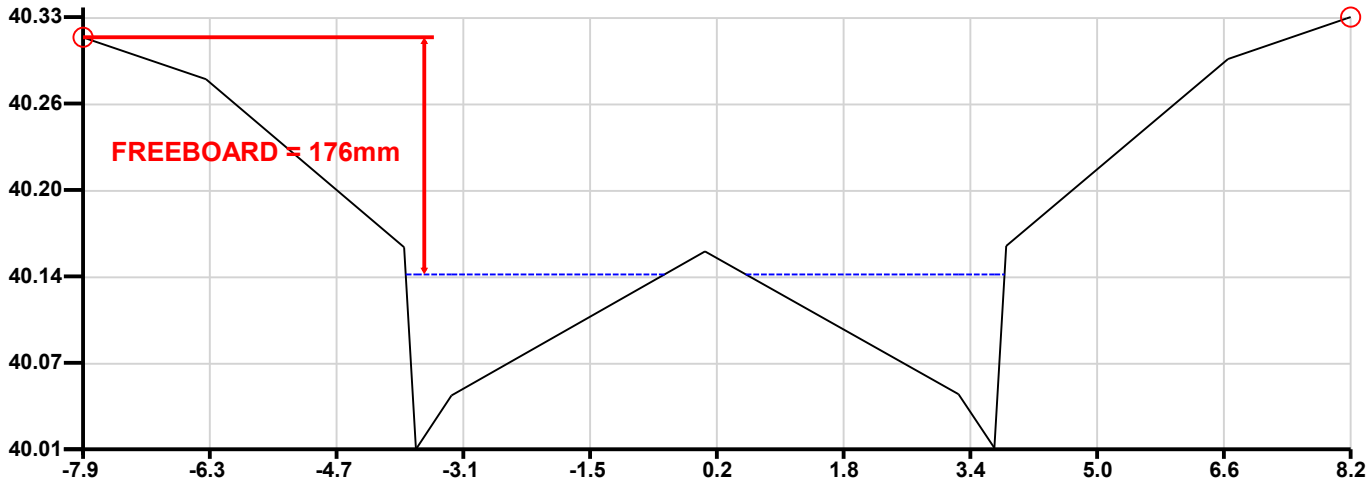
	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.25	0.00	0.25
D(Max) = Max. Depth (m):	0.00	0.13	0.00	0.13
D(Ave) = Ave. Depth (m):	0.00	0.05	0.00	0.05
V = Ave. Velocity (m/s):	0.00	0.69	0.00	0.69
D(Max) x V (cumecs/m):	0.00	0.09	0.00	0.09
D(Ave) x V (cumecs/m):	0.00	0.04	0.00	0.04
Froude Number:	0.00	0.94	0.00	N/A
Area (m^2):	0.00	0.36	0.00	0.36
Wetted Perimeter (m):	0.00	6.71	0.00	6.71
Flow Width (m):	0.00	6.59	0.00	6.59
Hydraulic Radius (m):	0.00	0.05	0.00	0.05
Composite Manning's n:	0.000	0.015	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-8.150	39.973	-8.100	39.972	0.035
2	-8.100	39.972	-6.600	39.942	0.013
3	-6.600	39.942	-3.800	39.802	0.020
4	-3.800	39.802	-3.650	39.652	0.013
5	-3.650	39.652	-3.200	39.692	0.013
6	-3.200	39.692	0.000	39.798	0.015
7	0.000	39.798	3.200	39.692	0.015
8	3.200	39.692	3.650	39.652	0.013
9	3.650	39.652	3.800	39.802	0.013
10	3.800	39.802	6.300	39.927	0.035
11	6.300	39.927	7.800	39.957	0.013
12	7.800	39.957	7.850	39.958	0.035

PROJECT: Alamora Stage 15
Section F Ch19.460
Print-out date: 07/05/2024 - Time: 18:07
Data File: Section F Ch19.460 Nalanda Road.dat

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.207 cumecs

There is no pipe discharge
Overland / Channel / Watercourse discharge = 0.207 cumecs

3. RESULTS: Water surface elevation = 40.137m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

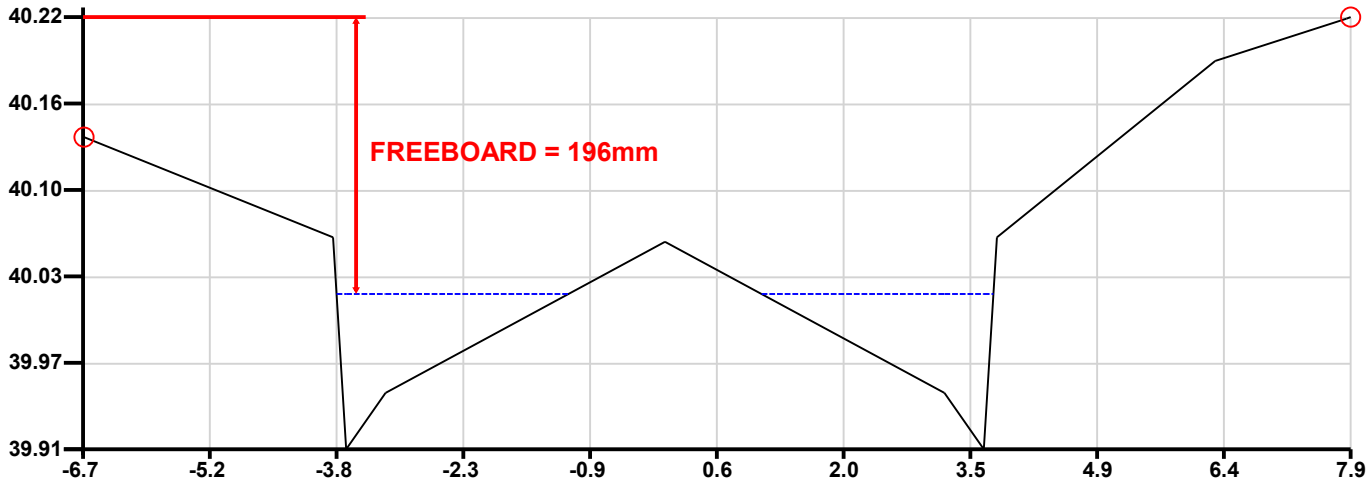
	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.24	0.00	0.24
D(Max) = Max. Depth (m):	0.00	0.13	0.00	0.13
D(Ave) = Ave. Depth (m):	0.00	0.05	0.00	0.05
V = Ave. Velocity (m/s):	0.00	0.69	0.00	0.69
D(Max) x V (cumecs/m):	0.00	0.09	0.00	0.09
D(Ave) x V (cumecs/m):	0.00	0.04	0.00	0.04
Froude Number:	0.00	0.94	0.00	N/A
Area (m^2):	0.00	0.36	0.00	0.36
Wetted Perimeter (m):	0.00	6.65	0.00	6.65
Flow Width (m):	0.00	6.54	0.00	6.54
Hydraulic Radius (m):	0.00	0.05	0.00	0.05
Composite Manning's n:	0.000	0.015	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-7.850	40.313	-7.800	40.312	0.035
2	-7.800	40.312	-6.300	40.282	0.013
3	-6.300	40.282	-3.800	40.157	0.020
4	-3.800	40.157	-3.650	40.007	0.013
5	-3.650	40.007	-3.200	40.047	0.013
6	-3.200	40.047	0.000	40.154	0.015
7	0.000	40.154	3.200	40.048	0.015
8	3.200	40.048	3.650	40.008	0.013
9	3.650	40.008	3.800	40.158	0.013
10	3.800	40.158	6.600	40.297	0.035
11	6.600	40.297	8.100	40.327	0.013
12	8.100	40.327	8.150	40.328	0.035

PROJECT: 200282 Alamora ST15
Section G Ch105.527
Print-out date: 08/05/2024 - Time: 11:43
Data File: Section G Ch105.527.dat

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.145 cumecs

There is no pipe discharge
Overland / Channel / Watercourse discharge = 0.145 cumecs

3. RESULTS: Water surface elevation = 40.022m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

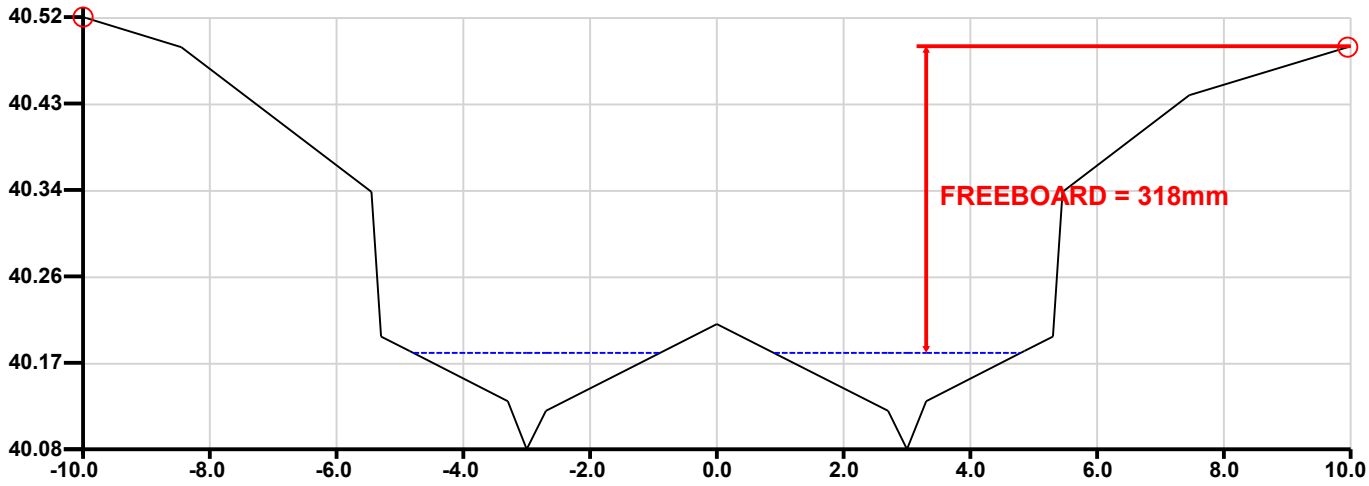
	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.15	0.00	0.15
D(Max) = Max. Depth (m):	0.00	0.11	0.00	0.11
D(Ave) = Ave. Depth (m):	0.00	0.05	0.00	0.05
V = Ave. Velocity (m/s):	0.00	0.61	0.00	0.61
D(Max) x V (cumecs/m):	0.00	0.07	0.00	0.07
D(Ave) x V (cumecs/m):	0.00	0.03	0.00	0.03
Froude Number:	0.00	0.91	0.00	N/A
Area (m^2):	0.00	0.24	0.00	0.24
Wetted Perimeter (m):	0.00	5.40	0.00	5.40
Flow Width (m):	0.00	5.31	0.00	5.31
Hydraulic Radius (m):	0.00	0.04	0.00	0.04
Composite Manning's n:	0.000	0.015	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-6.660	40.218	-6.650	40.133	0.035
2	-6.650	40.133	-3.800	40.062	0.035
3	-3.800	40.062	-3.650	39.912	0.013
4	-3.650	39.912	-3.200	39.952	0.013
5	-3.200	39.952	0.000	40.059	0.015
6	0.000	40.059	3.200	39.952	0.015
7	3.200	39.952	3.650	39.912	0.013
8	3.650	39.912	3.800	40.062	0.013
9	3.800	40.062	6.300	40.187	0.020
10	6.300	40.187	7.800	40.217	0.013
11	7.800	40.217	7.850	40.218	0.020

PROJECT: Alamora Stage 15
Section H Ch110.974
Print-out date: 08/05/2024 - Time: 11:44
Data File: Section H Ch110.974 Implexa.dat

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.135 cumecs

There is no pipe discharge
Overland / Channel / Watercourse discharge = 0.135 cumecs

3. RESULTS: Water surface elevation = 40.176m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.14	0.00	0.14
D(Max) = Max. Depth (m):	0.00	0.10	0.00	0.10
D(Ave) = Ave. Depth (m):	0.00	0.04	0.00	0.04
V = Ave. Velocity (m/s):	0.00	0.52	0.00	0.52
D(Max) x V (cumecs/m):	0.00	0.05	0.00	0.05
D(Ave) x V (cumecs/m):	0.00	0.02	0.00	0.02
Froude Number:	0.00	0.88	0.00	N/A
Area (m^2):	0.00	0.28	0.00	0.28
Wetted Perimeter (m):	0.00	7.80	0.00	7.80
Flow Width (m):	0.00	7.78	0.00	7.78
Hydraulic Radius (m):	0.00	0.04	0.00	0.04
Composite Manning's n:	0.000	0.015	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

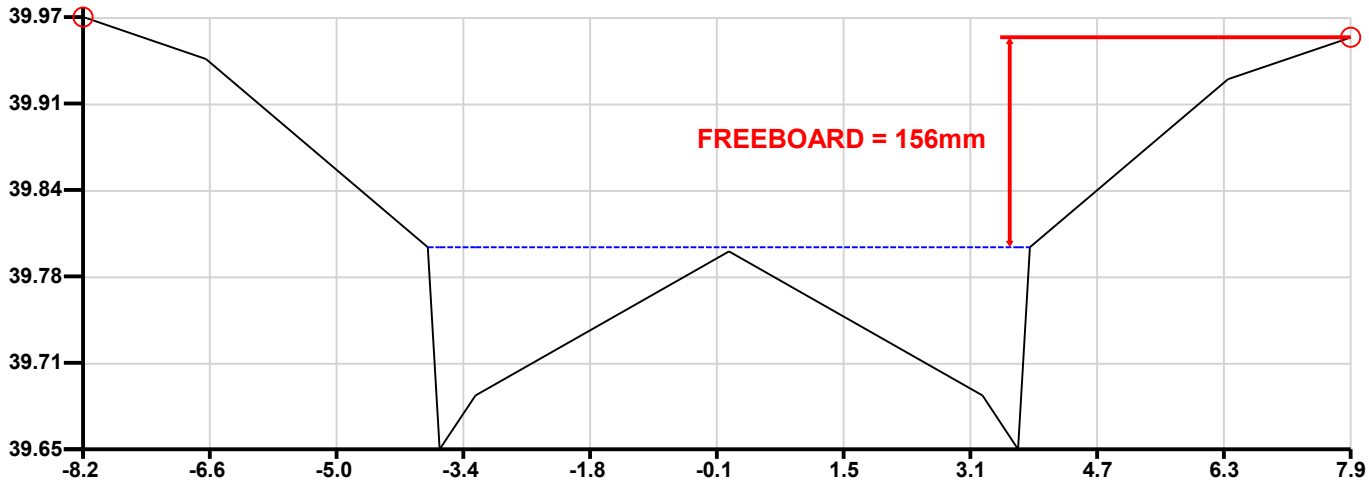
	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-10.000	40.524	-9.950	40.523	0.035
2	-9.950	40.523	-8.450	40.493	0.013
3	-8.450	40.493	-5.450	40.343	0.020
4	-5.450	40.343	-5.300	40.193	0.013
5	-5.300	40.193	-4.850	40.178	0.013
6	-4.850	40.178	-3.300	40.126	0.015
7	-3.300	40.126	-3.000	40.076	0.013
8	-3.000	40.076	-2.700	40.116	0.013
9	-2.700	40.116	0.000	40.206	0.015
10	0.000	40.206	2.700	40.116	0.015
11	2.700	40.116	3.000	40.076	0.013
12	3.000	40.076	3.300	40.126	0.013

4. CROSS-SECTION DATA: (continued)

	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
13	3.300	40.126	4.850	40.178	0.015
14	4.850	40.178	5.300	40.193	0.013
15	5.300	40.193	5.450	40.343	0.013
16	5.450	40.343	7.450	40.443	0.020
17	7.450	40.443	9.950	40.493	0.013
18	9.950	40.493	10.000	40.494	0.035

PROJECT: Alamora Stage 15
Section I Ch52.937
Print-out date: 08/05/2024 - Time: 11:44
Data File: Section I Ch52.937 Lopera Drive.dat

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.339 cumecs

There is no pipe discharge
Overland / Channel / Watercourse discharge = 0.339 cumecs

3. RESULTS: Water surface elevation = 39.799m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

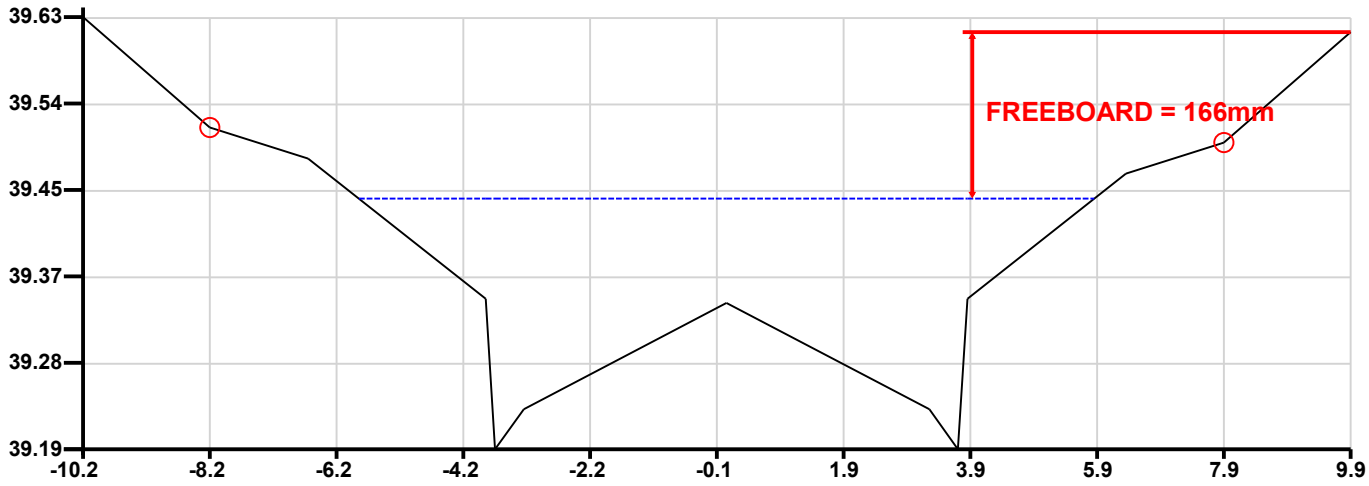
	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.39	0.00	0.39
D(Max) = Max. Depth (m):	0.00	0.15	0.00	0.15
D(Ave) = Ave. Depth (m):	0.00	0.07	0.00	0.07
V = Ave. Velocity (m/s):	0.00	0.78	0.00	0.78
D(Max) x V (cumecs/m):	0.00	0.12	0.00	0.12
D(Ave) x V (cumecs/m):	0.00	0.05	0.00	0.05
Froude Number:	0.00	0.97	0.00	0.97
Area (m^2):	0.00	0.50	0.00	0.50
Wetted Perimeter (m):	0.00	7.73	0.00	7.73
Flow Width (m):	0.00	7.60	0.00	7.60
Hydraulic Radius (m):	0.00	0.06	0.00	0.06
Composite Manning's n:	0.000	0.015	0.000	0.015
Split Flow?	-	-	-	No

4. CROSS-SECTION DATA:

	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-8.150	39.970	-8.100	39.969	0.035
2	-8.100	39.969	-6.600	39.939	0.013
3	-6.600	39.939	-3.800	39.799	0.020
4	-3.800	39.799	-3.650	39.649	0.013
5	-3.650	39.649	-3.200	39.689	0.013
6	-3.200	39.689	0.000	39.796	0.015
7	0.000	39.796	3.200	39.689	0.015
8	3.200	39.689	3.650	39.649	0.013
9	3.650	39.649	3.800	39.799	0.013
10	3.800	39.799	6.300	39.924	0.035
11	6.300	39.924	7.800	39.954	0.013
12	7.800	39.954	7.850	39.955	0.035

PROJECT: Alamora Stage 15
Section J Ch186.409
Print-out date: 08/05/2024 - Time: 11:12
Data File: Section J Ch186.409 Pedra Avenue.dat

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 1.26 cumecs

There is no pipe discharge
Overland / Channel / Watercourse discharge = 1.264 cumecs

3. RESULTS: Water surface elevation = 39.444m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	1.26	0.00	1.26
D(Max) = Max. Depth (m):	0.00	0.25	0.00	0.25
D(Ave) = Ave. Depth (m):	0.00	0.13	0.00	0.13
V = Ave. Velocity (m/s):	0.00	0.86	0.00	0.86
D(Max) x V (cumecs/m):	0.00	0.22	0.00	0.22
D(Ave) x V (cumecs/m):	0.00	0.11	0.00	0.11
Froude Number:	0.00	0.77	0.00	0.77
Area (m^2):	0.00	1.46	0.00	1.46
Wetted Perimeter (m):	0.00	11.74	0.00	11.74
Flow Width (m):	0.00	11.60	0.00	11.60
Hydraulic Radius (m):	0.00	0.12	0.00	0.12
Composite Manning's n:	0.000	0.020	0.000	0.020
Split Flow?	-	-	-	No

4. CROSS-SECTION DATA:

	LEFT HAND POINT		RIGHT HAND POINT		
SEGMENT NO.	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-10.150	39.625	-8.150	39.515	0.035
2	-8.150	39.515	-8.100	39.514	0.035
3	-8.100	39.514	-6.600	39.484	0.013
4	-6.600	39.484	-3.800	39.344	0.020
5	-3.800	39.344	-3.650	39.194	0.013
6	-3.650	39.194	-3.200	39.234	0.013
7	-3.200	39.234	0.000	39.340	0.015
8	0.000	39.340	3.200	39.234	0.015
9	3.200	39.234	3.650	39.194	0.013
10	3.650	39.194	3.800	39.344	0.013
11	3.800	39.344	6.300	39.469	0.035
12	6.300	39.469	7.800	39.499	0.013

4. CROSS-SECTION DATA: (continued)

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	LEFT HAND POINT R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	RIGHT HAND POINT R.L. (m)	MANNING'S N
13	7.800	39.499	7.850	39.500	0.035
14	7.850	39.500	9.850	39.610	0.035

creo structures
Level 7/176 Wellington Parade,
East Melbourne, VIC, 3002

Building Act 1993
Section 238(1)(a)
Building Regulations 2018
Regulation 126

CERTIFICATE OF COMPLIANCE FOR PROPOSED BUILDING WORK

This certificate is issued to:

Postal address

Postcode

Email

This certificate is issued in relation to the proposed building work at:

Address of: Alamora, Tarneit Stage 15

Postcode: 3029

Nature of proposed building work

Proposed stormwater pits

Storeys contained: N/A

Rise in storeys (for Class 2-9 building only) : N/A

Effective height: N/A

Type of construction C

Version of BCA applicable to certificate 2022

Building classification

Part of building: All BCA Classification 10b

Prescribed class of building work for which this certificate is issued:
Design or part of the design of building work relating to Structural matter of the stormwater pits

Documents setting out the design that is certified by this certificate

Document no.	Revision	Document date	Type of document	Number of pages	Prepared by
200282.15 R702	0	19/09/2024	Drawings	1	Creo Civil
240380 - Computations	0	13/09/2024	Calculations	3	Creo Structures

Notes
1. The builder/contractor is to provide all temporary structures – barriers, propping and bracing as required to maintain safety and stability during construction. Temporary structures are excluded from this certification.
2. This certification is to be read with project general notes.

The design certified by this certificate complies with the following provisions of Building Act 1993, Building Regulations 2018 or National Construction Code

Act, Regulation or NCC	Section, Regulation, Part, Performance Requirement or other provision
AS/NZS 1170.0	Structural design actions – General principles
AS/NZS 1170.1	Structural design actions – Permanent, imposed and other actions
AS 3600	Concrete Structures Code
AS 4678	Earth-retaining Structures
NCC 2022 Volume 1 Building Code of Australia	Part B1

creo structures
Level 7/176 Wellington Parade,
East Melbourne, VIC, 3002

I prepared the design, or part of the design, set out in the documents listed above.

I certify that the design set out in the documents listed above complies with the provisions set out above.

I believe that I hold the required skills, experience and knowledge to issue this certificate and can demonstrate this if requested to do so.

Engineer

Name: Terry Leach

Address: Level 7, 176 Wellington Parade, East Melbourne, VIC, 3002

Email: terry.leach@creostructures.com.au

Endorsed building engineer area of engineering: civil engineering

Endorsed building engineer registration no.: PE0002946

Date of issue of certificate: 19/09/2024

Signature:

creo consultants
Level 7, 176 Wellington Parade,
East Melbourne, VIC, Australia 3002

REINFORCED CONCRETE ONE-WAY SLABS
FLEXURE, SHEAR & DEFLECTION ANALYSIS

VERSION 1.0
Sheet 1/1

Date: 13-Sept-24
Time: 14:47
Proj.No: 230380
Engineer: TL

ALAMORMA STAGE 15 PITS - SIDE WALL

SPANS :

CL to CL Span: 1650 mm

SLAB GEOMETRY :

DEPTH: 200 mm
WIDTH: 1000 mm

LOADS & END FIXITY:

Uniform Loads

								TOTAL (kN/m)	FACTORED (kN/m)
DL	Self Weight of slab	4.80	x	1.00	=	4.8			
	Soil	22.80	x	1.00	=	22.8			
			x		=	0.0		27.6	33.1
LL	Surcharge (20kPa)	12.00	x	1.00	=	12.0			
					=	0.0		12.0	29.2
							Total	**39.6**	**62.3**

Point Loads

	DL (kN)	LL (kN)	'x' from LHS (mm)	TOTAL (kN)	FACTORED (kN)
P1				**0.0**	**0.0**
P2				**0.0**	**0.0**
P3				**0.0**	**0.0**

End Fixity

	Left Support	Right Support	
Maximum M-ve	-0.090 x wl^2	-0.090 x wl^2	Input -ve factor for hogging moment
Minimum M-ve	0.000 x wl^2	-0.050 x wl^2	

CONCRETE :

f'c = 32 Mpa

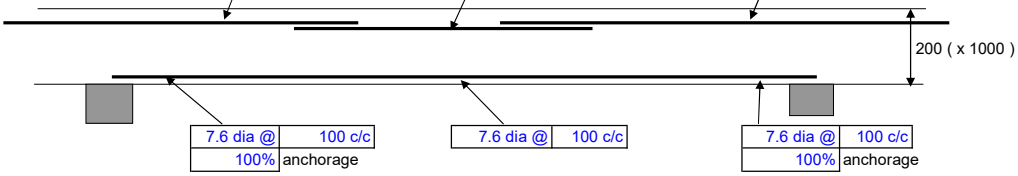
REINFORCEMENT :

FLEXURE :

fsy = 400 Mpa

Top cover: 35 mm
Bot cover: 35 mm

	Left Support	Within Span	Right Support	
Design Moment **M***	**-12.5**	**17.9**	**-12.5**	kNm
Moment Capacity ϕM_{ud}	**-27.1**	**27.1**	**-27.1**	kNm
	OK	**OK**	**OK**	
	7.6 dia @ 100 c/c	7.6 dia @ 100 c/c	7.6 dia @ 100 c/c	



	7.6 dia @ 100 c/c	7.6 dia @ 100 c/c	7.6 dia @ 100 c/c
	100% anchorage		100% anchorage

	Left Support	Within Span	Right Support	
d	161	161	161	mm
Ast	454	454	454	mm^2
d_c	39	39	39	mm
Asc	454	454	454	mm^2

SHEAR :

	Left Support	Right Support	
Design Shear **V* (@ d)**	**35.5**	**39.7**	kN
Shear Capacity ϕV_{uc}	**80.0**	**80.0**	kN
	OK	**OK**	

DEFLECTIONS :

Hypothetical thickness (t_h): 167 mm

ψ_s = 0.7 ψ_l = 0.4 ε_{cs} = 750 x 10^{-6} ϕ = 2.60 creep factor

I_{gross} = 667 x 10^6 mm^4 f'$_{cf}$ = 3.39 Mpa E_c = 28600 Mpa

AS 3600 Method :

	Left Support	Within Span	Right Support	
p =	0.28%	0.28%	0.28%	
f_{cs} =	0.56	0.56	0.56	Mpa
M_{cr} =	-18.9	18.9	-18.9	kNm
M_s =	0.0	9.9	-8.8	kNm
$M_{long\ term}$ =	0.0	8.9	-4.4	kNm
I_{cr} =	63.7	63.7	63.7	x 10^6 mm^4
I_{ef} =	667	667	667	x 10^6 mm^4
	(End Span)	**I_{ef} = 667**	**x 10^6 mm^4**	
		k_{cs} = 0.80		

long term deflection

Total **0.2 mm**
L / 7259

Gilbert Modification :
(Electronic Journal of Structural Engineering, 1 (2001) p 15 - 37)

	Left Support	Within Span	Right Support	
I_{gross} =	687	687	687	x 10^6 mm^4
f_{cs} =	0.93	0.93	0.93	Mpa
M_{cr} =	17.0	17.0	-17.0	kNm
I_{ef} =	687	687	687	x 10^6 mm^4
	Uncracked section	Uncracked section	Uncracked section	
κ_i =	0	4.5462E-07	-2.245E-07	
α =	1.24	1.24	1.24	
$\kappa_{(t)}$ =	0.000E+00	1.408E-06	-6.953E-07	
k_r =	0.000	0.000	0.000	
κ_{sh} =	0.000E+00	0.000E+00	0.000E+00	
k_r =				
κ_{sh} =				

transformed section

long term deflection

loads	0.4 mm
shrinkage	0.0 mm
Total	**0.4 mm**
	L / 4591

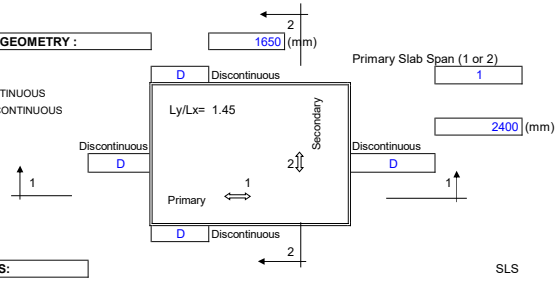
creo consultants
Level 7, 176 Wellington Parade,
East Melbourne, VIC, Australia 3002

SOLID SLABS SPANNING IN TWO DIRECTIONS Version 1.0

DATE: 13-Sept-24
PROJECT: 240380
ENGINEER:

ALAMORMA STAGE 15 PITS - SIDE WALL

SLAB GEOMETRY :



LOADS:

		SLS	ULS
DL :	SLAB SELF WEIGHT	4.80	
	SUPERIMPOSED DEAD LOAD	22.80	
	TOTAL DL	27.60	33.12
LL :	APPLIED LIVE LOAD	12.00	18.00
		39.60 kPa	51.12 kPa

SLAB THICKNESS 200 mm

Mesh ϕ = 0.64

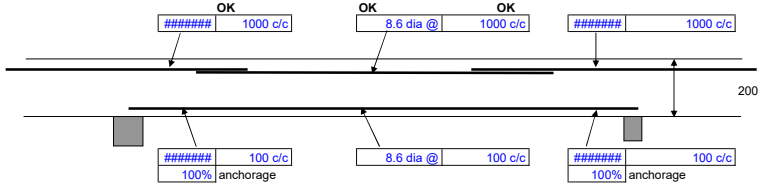
CONCRETE : f'c = 32 Mpa

REINFORCEMENT :

FLEXURE : fsy = 500 Mpa Top cover 35 mm Bot cover 35 mm

SPAN DIRECTION 1:

	Left Support	Within Span	Right Support	
Moment Coefficient	0.000	0.076	0.000	
Design Moment **M***	0.0	10.6	0.0	kNm
Moment Capacity ϕM_{ud}	**29.3**	**29.3**	**29.3**	kNm
	OK	**OK**	**OK**	
	######## 1000 c/c	8.6 dia @ 1000 c/c	######## 1000 c/c	
	######## 100 c/c	8.6 dia @ 100 c/c	######## 100 c/c	
	100% anchorage		100% anchorage	



	Left Support	Within Span	Right Support	
d	160	160	160	mm
Ast	581	581	581	mm^2
d_c	40	40	40	mm
Asc	58	58	58	mm^2

DEFLECTIONS :

α = 1.00
load ratio = 0.82
Hypothetical thickness (t_h): 167 mm
ψ_s = 0.7 ψ_l = 0.4 ε_{cs} = 750 x 10^{-6} ϕ = 2.60 creep factor
I_{gross} = 667 x 10^6 mm^4 f'_{cf} = 3.39 Mpa E_c = 28600 Mpa

AS 3600 Method :

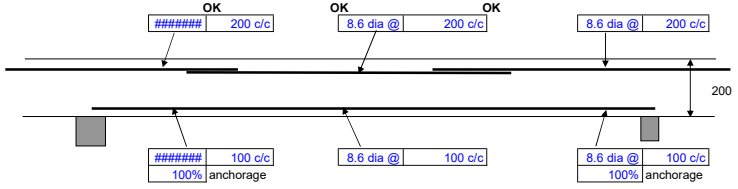
	Left Support	Within Span	Right Support	
	p = 0.36%	p = 0.36%	p = 0.36%	
	f_{cs} = 0.69	f_{cs} = 0.69	f_{cs} = 0.69	Mpa
	M_{cr} = 18.0	M_{cr} = 18.0	M_{cr} = 18.0	kNm
	M_s = 0.0	M_s = 10.0	M_s = 0.0	kNm
	$M_{long\ term}$ = 0.0	$M_{long\ term}$ = 9.0	$M_{long\ term}$ = 0.0	kNm
	I_{cr} = 77.5	I_{cr} = 77.5	I_{cr} = 77.5	x 10^6 mm^4
	I_{ef} = 667	I_{ef} = 667	I_{ef} = 667	x 10^6 mm^4
	(Simple Span)	**I_{ef} = 667**	**x 10^6 mm^4**	**long term deflection**
		k_{cs} = 1.88		**Total 0.4 mm**
				L / 4274

Gilbert Modification :
(Electronic Journal of Structural Engineering, 1 (2001) p 15 - 37)

	Left Support	Within Span	Right Support	
	I_{qross} = 680	I_{qross} = 680	I_{qross} = 680	x 10^6 mm^4 transformed section
	f_{cs} = 1.15	f_{cs} = 1.15	f_{cs} = 1.15	Mpa
	M_{cr} = 15.4	M_{cr} = 15.4	M_{cr} = 15.4	kNm
	I_{ef} = 680	I_{ef} = 680	I_{ef} = 680	x 10^6 mm^4
	Uncracked section	Uncracked section	Uncracked section	
	κ_i = 0	κ_i = 4.63233E-07	κ_i = 0	
	α = 0.97	α = 0.97	α = 0.97	**long term deflection**
	$\kappa_{(t)}$ = 0.000E+00	$\kappa_{(t)}$ = 1.705E-06	$\kappa_{(t)}$ = 0.000E+00	loads 0.5 mm
	k_r = 0.173	k_r = 0.173	k_r = 0.173	shrinkage 0.2 mm
	κ_{sh} = 6.477E-07	κ_{sh} = 6.477E-07	κ_{sh} = 6.477E-07	**Total 0.7 mm**
				L / 2411
	k_r =	k_r =	k_r =	
	κ_{sh} =	κ_{sh} =	κ_{sh} =	

SPAN DIRECTION 2:

	Left Support	Within Span	Right Support	
Moment Coefficient	0.000	0.049	0.000	
Design Moment **M***	0.0	6.8	0.0	kNm
Moment Capacity ϕM_{ud}	**30.4**	**30.4**	**30.4**	kNm
	OK	**OK**	**OK**	
	######## 200 c/c	8.6 dia @ 200 c/c	8.6 dia @ 200 c/c	
	######## 100 c/c	8.6 dia @ 100 c/c	8.6 dia @ 100 c/c	
	100% anchorage		100% anchorage	



	Left Support	Within Span	Right Support	
d	151	151	151	mm
Ast	581	581	581	mm^2
d_c	49	49	49	mm
Asc	290	290	290	mm^2

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REINFORCED CONCRETE ONE-WAY SLABS
FLEXURE, SHEAR & DEFLECTION ANALYSIS

VERSION 1.0
Sheet 1/1

Date: 13-Sept-24
Time: 14:50
Proj.No: 240380
Engineer: TL

ALAMORMA STAGE 15 PITS - HAUNCH SLAB

SPANS :

CL to CL Span: 1200 mm

SLAB GEOMETRY :

DEPTH: 250 mm
WIDTH: 1000 mm

LOADS & END FIXITY:

Uniform Loads

							kN/m	TOTAL (kN/m)	FACTORED (kN/m)
DL	Self Weight of slab	6.00	x	1.00	=		6.0		
	Soil	17.10	x	1.00	=		17.1		
			x		=		0.0	23.1	27.7
LL	Surcharge (20kPa)	20.00	x	0.00	=		0.0		
					=		0.0	0.0	0.0
						Total		**23.1**	**27.7**

Point Loads

	DL (kN)	LL (kN)	'x' from LHS (mm)	TOTAL (kN)	FACTORED (kN)
P1				**0.0**	**0.0**
P2				**0.0**	**0.0**
P3				**0.0**	**0.0**

End Fixity

	Left Support	Right Support	
Maximum M-ve	0.000 x wl^2	0.000 x wl^2	Input -ve factor for hogging moment
Minimum M-ve	0.000 x wl^2	0.000 x wl^2	

CONCRETE :

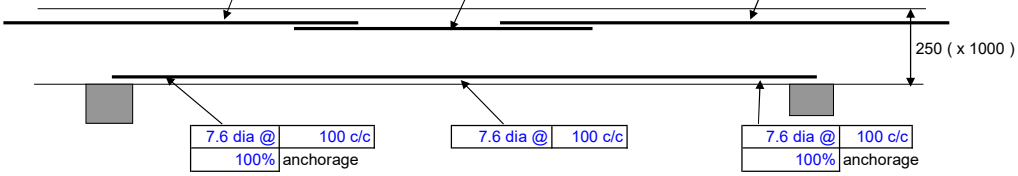
f'c = 32 Mpa

REINFORCEMENT :

FLEXURE :

fsy = 400 Mpa
Top cover 35 mm
Bot cover 35 mm

	Left Support	Within Span	Right Support	
Design Moment **M***	**0.0**	**5.0**	**0.0**	kNm
Moment Capacity ϕM_{ud}	**34.4**	**34.4**	**34.4**	kNm
	OK	**OK**	**OK**	
	7.6 dia @ 100 c/c	7.6 dia @ 100 c/c	7.6 dia @ 100 c/c	



	7.6 dia @ 100 c/c	7.6 dia @ 100 c/c	7.6 dia @ 100 c/c
	100% anchorage		100% anchorage

	Left Support	Within Span	Right Support	
d	211	211	211	mm
Ast	454	454	454	mm^2
d_c	39	39	39	mm
Asc	454	454	454	mm^2

SHEAR :

	Left Support	Right Support	
Design Shear **V* (@ d)**	**10.8**	**10.8**	kN
Shear Capacity ϕV_{uc}	**92.5**	**92.5**	kN
	OK	**OK**	

DEFLECTIONS :

Hypothetical thickness (t_h): 200 mm

ψ_s = 0.7 ψ_l = 0.4 ε_{cs} = 750 x 10^{-6} ϕ = 2.60 creep factor

I_{gross} = 1302 x 10^6 mm^4 f'$_{cf}$ = 3.39 Mpa E_c = 28600 Mpa

AS 3600 Method :

	Left Support	Within Span	Right Support	
p =	0.21%	0.21%	0.21%	
f_{cs} =	0.44	0.44	0.44	Mpa
M_{cr} =	30.8	30.8	30.8	kNm
M_s =	0.0	4.2	0.0	kNm
$M_{long\ term}$ =	0.0	4.2	0.0	kNm
I_{cr} =	112.6	112.6	112.6	x 10^6 mm^4
I_{ef} =	1302	1302	1302	x 10^6 mm^4
	(Simple Span)	**I_{ef} = 1302**	**x 10^6 mm^4**	
		k_{cs} = 0.80		

long term deflection
Total 0.0 mm
L / 39805

Gilbert Modification :
(Electronic Journal of Structural Engineering, 1 (2001) p 15 - 37)

	Left Support	Within Span	Right Support	
I_{gross} =	1342	1342	1342	x 10^6 mm^4 transformed section
f_{cs} =	0.73	0.73	0.73	Mpa
M_{cr} =	28.6	28.6	28.6	kNm
I_{ef} =	1342	1342	1342	x 10^6 mm^4
	Uncracked section	Uncracked section	Uncracked section	
κ_i =	0	1.0831E-07	0.000E+00	
α =	1.16	1.16	1.16	
$\kappa_{(t)}$ =	0.000E+00	3.506E-07	0.000E+00	
k_r =	0.000	0.000	0.000	
κ_{sh} =	0.000E+00	0.000E+00	0.000E+00	
k_r =				
κ_{sh} =				

long term deflection
loads 0.1 mm
shrinkage 0.0 mm
Total 0.1 mm
L / 23784