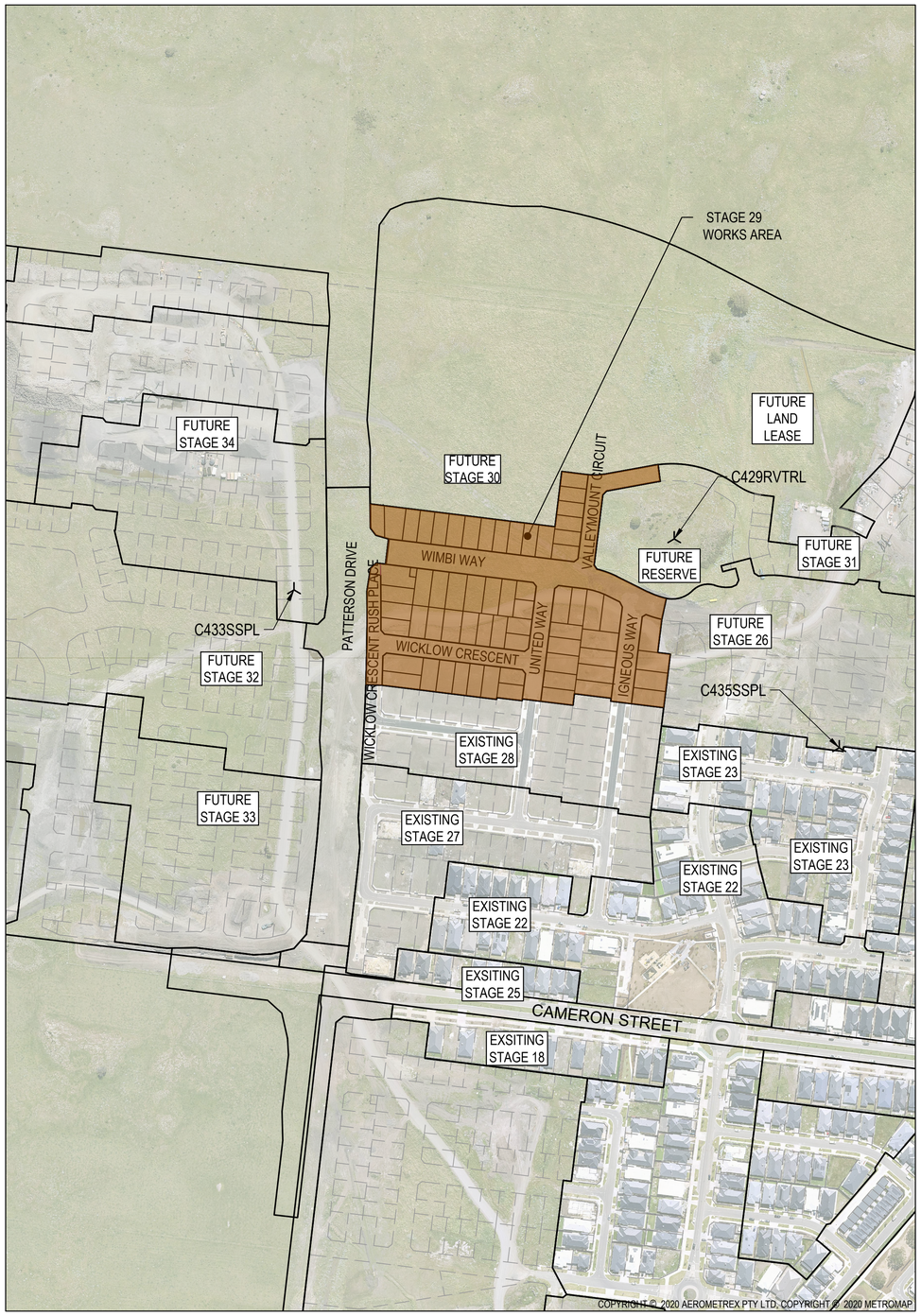

Olivine Estate Stage 29

Drawing Index

ROAD LAYOUT TABLE

ROAD NAME	ROAD RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
		LIP TO LIP	INV TO INV	BACK TO BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
WIMBI WAY	22.00	5.10 / 9.70	6.00 / 10.60	6.30 / 10.90	B2	B2	6.45/8.75	4.95/7.25
WIMBI WAY (ADJACENT OPEN SPACE)	18.50	5.10 / 9.70	6.00 / 10.60	6.30 / 10.90	B2	B2	2.95/5.25	4.95/7.25
IGNEOUS WAY	18.00	6.40	7.30	7.60	B2	B2	5.35	5.35
UNITED WAY	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
WICKLOW CRESCENT (LOTS 2927 TO 2933)	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
WICKLOW CRESCENT (LOTS 2921 & 2922)	14.00	6.40	7.30	7.60	B2	B2	2.35	4.35
VALLEYMOUNT CIRCUIT	14.50	6.40	7.30	7.60	B2	B2	4.35	2.85
RUSH PLACE	12.00	4.00	-	-	-	-	3.10	4.90

SERVICES OFFSET TABLE

ROAD NAME	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	TREES*	PUBLIC LIGHTING POLE**
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
WIMBI WAY	2.10 S	2.75 S	3.50 S	4.40 N	3.35 N	1.6 BOK	1.1 N BOK
WIMBI WAY (ADJACENT OPEN SPACE)	2.10 S	2.75 S	3.50 S	1.10 N	0.35 N	1.6 S & 1.4 N	1.1 N BOK
IGNEOUS WAY	2.10 E	2.60 E	3.10 E	3.50 W	1.85 W	1.8 BOK	1.1 W BOK
UNITED WAY	2.10 E	2.55 E	3.05 E	2.50 W	1.85 W	1.3 BOK	1.1 W BOK
WICKLOW CRESCENT (LOTS 2927 TO 2933)	2.10 S	2.55 S	3.05 S	2.50 N	1.85 N	1.3 BOK	1.1 N BOK
WICKLOW CRESCENT (LOTS 2921 & 2922)	2.10 E	2.55 E	3.05 E	0.70 W	1.10 W	1.3 E & 1.1 W	1.1 W BOK
VALLEYMOUNT CIRCUIT	2.10 W	2.55 W	3.05 W	1.10 E	0.35 E	1.35 E & 1.3 W	1.1 E BOK
RUSH PLACE	1.80 E	2.20 E	2.70 E	4.10 E	3.40 E	1.7 E	1.1 W LOK

*INDICATIVE ONLY. SUBJECT TO FINAL LANDSCAPE DESIGN
**INDICATIVE ONLY. SUBJECT TO FINAL ELECTRICAL DESIGN

TBM SETOUT TABLE

POINT	EASTING	NORTHING	RL (AHD)	DESCRIPTION
C433SSPL	322706.25	5844729.60	248.14	STAR PICKET
C429RVTRL	323034.38	5844773.60	258.47	RIVET
C435SSPL	323176.76	5844593.31	251.84	STAR PICKET

GENERAL NOTES (WHITTLESEA CITY COUNCIL)

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SURVEILANCE COORDINATOR OR HIS REPRESENTATIVE.
2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
3. THE CONTRACTOR SHALL:
   - 3.1. COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
   - 3.2. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF THEIR INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
   - 3.3. ENSURE THAT THE MINE MANAGER OR THEIR DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
4. THE CONTRACTOR IS TO NOTIFY COUNCIL'S SENIOR SURVEILLANCE ENGINEER AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
6. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
7. THE CONTRACTOR SHALL COOPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE SUPERINTENDENT THE EXACT LOCATION OF ALL SERVICES PRIOR TO THE INSTALLATION OF CONDUITS.
8. ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
9. WHEN ENGAGED IN BLASTING OPERATIONS THE CONTRACTOR SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE SUPERINTENDENT. BLASTING REQUIRES A BLASTING PERMIT FROM COUNCIL.
10. APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
11. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
12. ALL TREES AND SHRUBS TO BE RETAINED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITY BECAUSE ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL, OR REMOVAL IS DIRECTED BY THE AUTHORISED ENGINEER. TREES TO BE REMOVED ARE TO BE SUITABLY LABELLED. WHEN IT IS PROPOSED TO REMOVE EXISITING TREES IN ROAD RESERVES OR COUNCIL RESERVES, CONSULTATION IS TO OCCUR WITH COUNCIL'S PARKS AND GARDENS DEPARTMENT.
13. VICROADS ROADWORK SIGNING CODE OF PRACTICE WHICH COMPLIES WITH THE AUSTRALIAN STANDARD 1742.3-2002 IS TO BE ADHERED TO DURING THE CONSTRUCTION WORKS.
14. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS H (PROPERTY STORMWATER CONNECTION), E (ELECTRICAL), G (GAS), T(TELEPHONE), W (WATER), R (RECYCLED WATER) AND C (COUNCIL COMMUNICATION) AS PER STANDARD DRAWING EDCM 303.
15. ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S EARTHWORK SPECIFICATION AND THE EARTHWORKS SECTION OF SMEC'S CONTRACT SPECIFICATION.
16. BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 IN 6 UNLESS NOTED OTHERWISE.
17. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVE AND NATURESTRIPS TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORK COMMENCING.
18. NO FILLING OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT.
19. NO TOPSOIL TO BE REMOVED FROM SITE UNLESS OTHERWISE APPROVED.
20. LOTS SHALL BE EVENLY GRADED TO ENSURE MINIMUM LOT FALLS AS SPECIFIED ON DRAWINGS ARE ACHIEVED.
21. ALL DRAINAGE PIPES TO BE CLASS 2 RCP UNLESS NOTED OTHERWISE. ALL DRAINAGE PIPE UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED. PIPES ABOVE THIS SIZE MAY BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS. RUBBER RING PIPES TO BE PRESSURE RESISTANT, I.E. SPECIFIC MANUFACTURERS RUBBER RING TO BE USED, SUITED TO PRESSURE CONDITIONS AND THE PIPES ARE NOT TO HAVE ANY PLUGS.
22. ALL PITS GRATER THAN OR EQUAL TO 1000mm DEPTH TO BE PROVIDED WITH STEP IRONS IN ACCORDANCE WITH EDCM 609.
23. ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, KERB & CHANNEL, PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERBS & CHANNEL SHALL BE BACKFILLED WITH COMPACTED CRUSHED ROCK AS SPECIFIED.
24. OFFSETS TO DRAINAGE IN EASEMENTS AS SHOWN ARE TO THE CENTRELINE OF THE DRAIN. UNLESS OTHERWISE SPECIFIED OR DETAILED, ALL EASEMENT DRAINS ARE TO BE CONSTRUCTED TO AN OFFSET OF 1.0m FROM ALLOTMENT BOUNDARY.
25. AG DRAINS TO BE PROVIDED BEHIND ALL KERBS AND SHALL HAVE SUITABLE OUTLET. CONSTRUCTION TO BE IN ACCORDANCE WITH EDCM 605-608.
26. HOUSE DRAINS ARE TO BE CONNECTED DIRECT TO UNDERGROUND DRAIN UNLESS NOTED OTHERWISE.
27. PROPERTY INLET PITS AS PER EDCM 701-704.
28. DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCILS STANDARDS AND CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES.
29. FOOTPATHS ARE TO BE OFFSET 50mm FROM THE BUILDING LINE.
30. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND 1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
31. UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP AND GRADED OVER. ALL RUBBISH IS TO BE REMOVED AND THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
32. ALL SERVICE TRENCHES UNDER FOOTPATH, ROAD PAVEMENTS, VEHICLE CROSSINGS AND OTHER ROAD STRUCTURES ARE TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT COUNCIL AND AUTHORITY STANDARDS.
33. FOOTPATHS ARE TO BE CONTINUOUSLY REINFORCED CONCRETE IN ACCORDANCE WITH EDCM 403 UNLESS OTHERWISE SPECIFIED,
34. A BUILDING PERMIT MUST BE OBTAINED FOR ANY STRUCTURE/RETAINING WALL EXCEEDING 1.0m IN HEIGHT PRIOR TO COMMENCEMENT OF CONSTRUCTION, IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA. COPY OF BUILDING PERMITS AND 'CERTIFICATE OF COMPLIANCE - CONSTRUCTION' (REGARDLESS OF HEIGHT) FOR ALL COMPONENTS OF RETAINING WALL INCLUDING AG DRAINS TO BE SUBMITTED TO COUNCIL PRIOR TO STATEMENT OF COMPLIANCE.
35. ALL FILL CONSTRUCTION AND TESTING TO BE CARRIED OUT AS PER CURRENT AS3798 LEVEL 1 REQUIREMENT, SMEC SPECIFICATIONS, WHITTLESEA CITY COUNCIL SPECIFICATIONS AND EDCM REQUIREMENTS.
36. CONCRETE JOINT DETAILS SHALL BE IN ACCORDANCE WITH CEMENT AND CONCRETE ASSOCIATION AUSTRALIA - GUIDE TO RESIDENTIAL STREET AND PATHS (C & CAA T51).
37. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
38. ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa AT 28 DAYS.
39. THE CONTRACTOR TO ERECT STREET NAME SIGNS WITH COUNCIL LOGO, GALVANISED IRON POSTS AND PROVIDE THE PROVISION OF A SLEEVE AS DIRECTED BY THE SUPERINTENDENT.
40. THE NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.
41. ALL MATERIAL SURROUNDING SERVICE AUTHORITY PITS LOCATED IN FOOTPATHS MUST BE ADEQUATELY COMPACTED IN 150mm LAYERS AND TESTED TO THE SATISFACTION OF THE CITY OF WHITTLESEA, PRIOR TO THE CONSTRUCTION OF THE FOOTPATH BAYS ADJACENT TO THESE PITS.
42. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
43. DOUBLE CROSS OVERS FOR LOTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDCM STANDARD DRAWING SD 502.
44. TGSI'S TO BE DESIGNED IN ACCORDANCE WITH CITY OF WHITTLESEA SD 320 AND AS 1428.4.1.

WARNING
SAFETY MEASURES REQUIRED
Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety In Design Risk Register
SID P4.E6. 1700E-029-500
ASSESS THE RISK - STAY SAFE

WARNING
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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H
PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

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MGA 2020
ZONE 55

smec an ASK company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Cover Plan & General Notes

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-101	01 of 27	A

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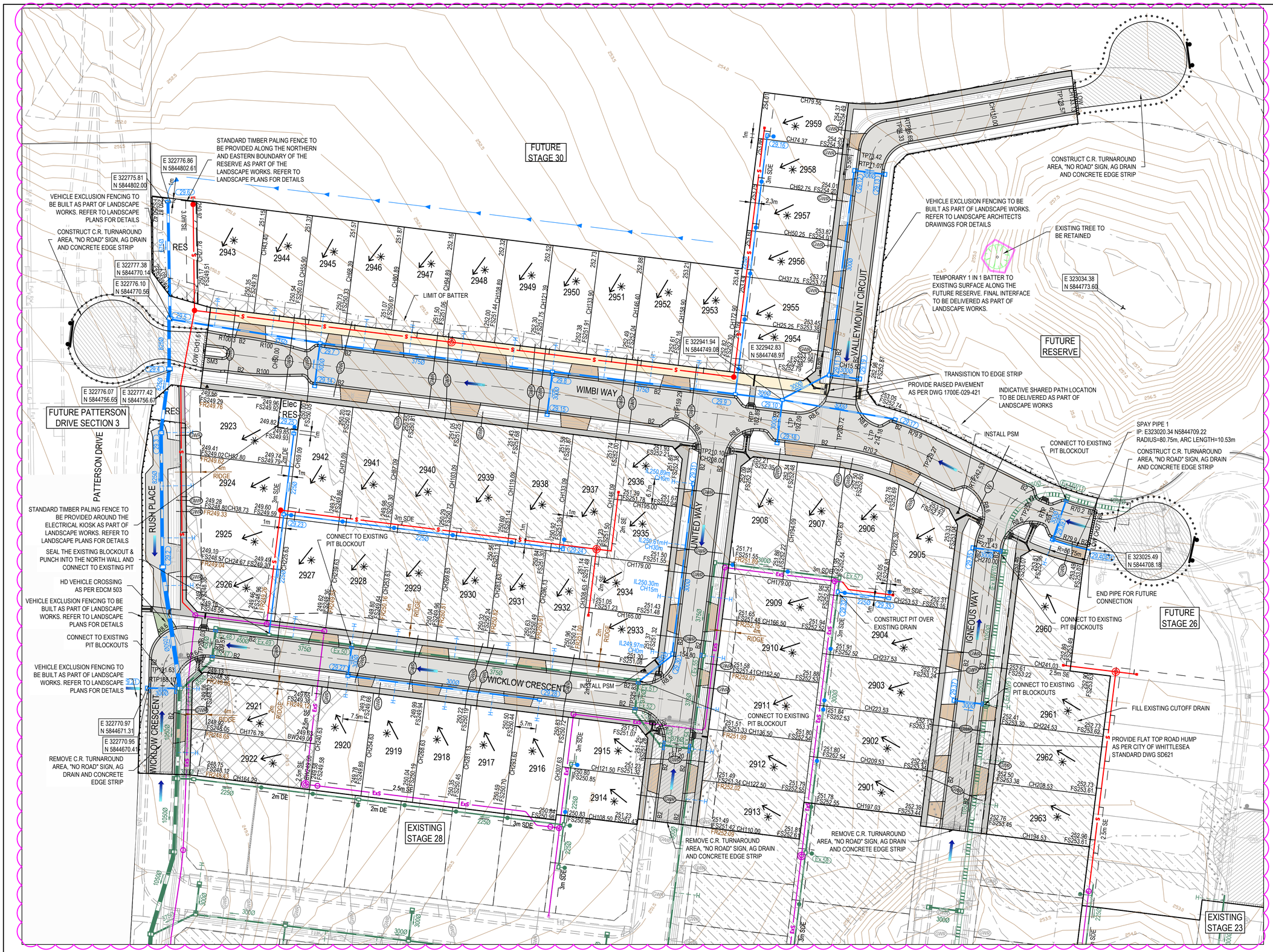

LEGEND - LAYOUT PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
S	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
E	ELECTRICITY (U.GROUND)
O/H	ELECTRICITY (O.HEAD)
G	GAS
T	TELSTRA
O	OPTIC FIBRE
W	WATER
RW	RECYCLE WATER
Ag	AG. DRAIN
GW	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
Ex H	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
Ex O/H E	EXISTING ELECTRICITY OVERHEAD
Ex G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex O	EXISTING OPTIC FIBRE
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex Ag	EXISTING AG. DRAIN
GW	EXISTING SERVICE CONDUITS
Fut D	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
Fut H	FUTURE HOUSE DRAIN
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Fut O/H E	FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
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Fut W	FUTURE WATER
Fut RW	FUTURE RECYCLED WATER
Fut Ag	FUTURE AG. DRAIN
GW	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
CH270.00	CHAINAGE
TW159.60	TOP OF RETAINING WALL LEVEL
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

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A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	KERBS, BATTERS, FENCE & TURNAROUND AREA	K.KANG	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

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0 5 10 20
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SCALE AS SHOWN AT A1

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smec an SNC company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 29
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Layout Plan - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-111	02 of 27	A

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LEGEND - EARTHWORKS PLAN

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O/H E	EXISTING ELECTRICITY OVERHEAD
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Ex T	EXISTING TELSTRA
Ex O	EXISTING OPTIC FIBRE
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex.Ag	EXISTING AG. DRAIN
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	EXISTING TACTILE PAVERS
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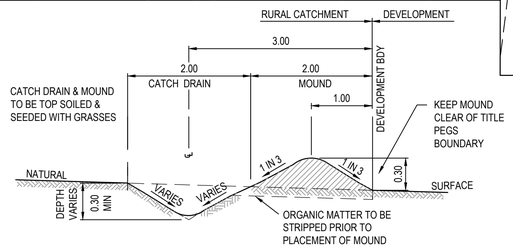
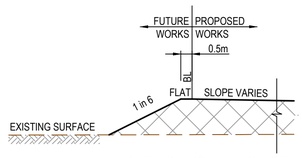


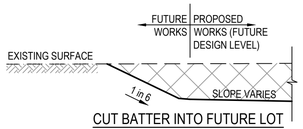
TYPICAL SECTION THROUGH CUT OFF DRAIN

NOT TO SCALE



FILL BATTER INTO FUTURE LOT

NOT TO SCALE



CUT BATTER INTO FUTURE LOT

NOT TO SCALE

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Scale 1:500
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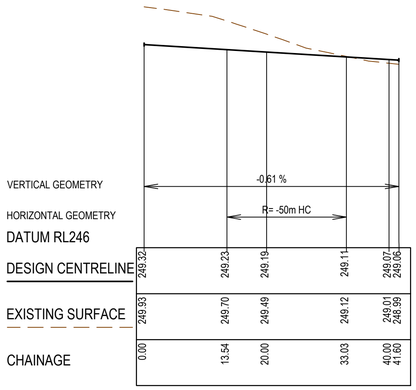
smec an SMEC company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

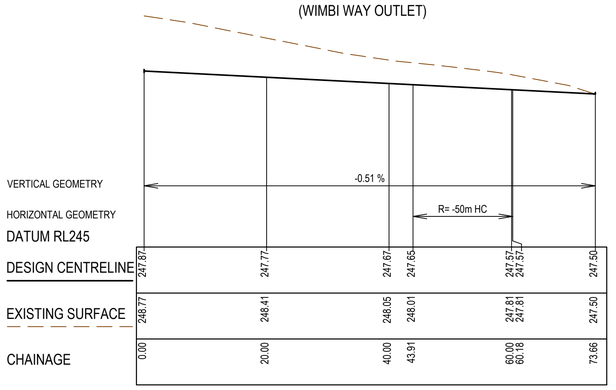
mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Earthworks & Retaining Wall Setout Plan

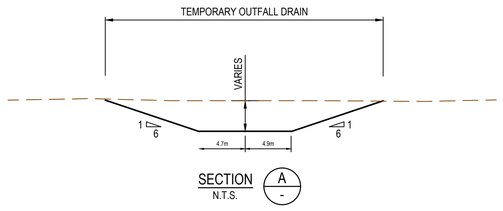
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-131	03 of 27	A

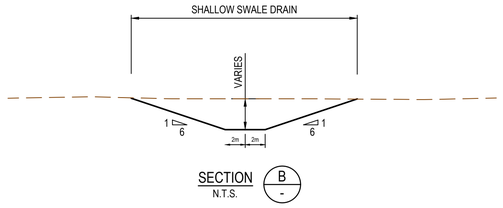


TEMPORARY OUTFALL CHANNEL 1 LONGITUDINAL SECTION
(WIMBI WAY OUTLET)



TEMPORARY OUTFALL CHANNEL 2 LONGITUDINAL SECTION
(WICKLOW CRESCENT OUTLET)





TEMPORARY OUTFALL

LEGEND - EARTHWORKS PLAN
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
S	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
E	ELECTRICITY (U.GROUND)
O/H	ELECTRICITY (O.HEAD)
G	GAS
T	TELSTRA
O	OPTIC FIBRE
W	WATER
RW	RECYCLE WATER
Ag	AG. DRAIN
GW	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
H	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
O/H E	EXISTING ELECTRICITY OVERHEAD
Ex G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex O	EXISTING OPTIC FIBRE
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex.Ag	EXISTING AG. DRAIN
GWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
H	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
Fut O/H E	FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
Fut O	FUTURE OPTIC FIBRE
Fut W	FUTURE WATER
Fut RW	FUTURE RECYCLED WATER
Fut Ag	FUTURE AG. DRAIN
GWR	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
CH270.00	CHAINAGE
TW159.60	TOP OF RETAINING WALL LEVEL
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	30.06.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H
PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

N

smec an SMEC company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Temporary Outfall Channel

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-132	04 of 27	A

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-132.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:29 PM

WARNING

BEWARE OF UNDERGROUND SERVICES

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

DIAL 1100 BEFORE YOU DIG

www.1100.com.au

NOTES

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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	SIGNAGE & LINE MARKINGS	K.KANG	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

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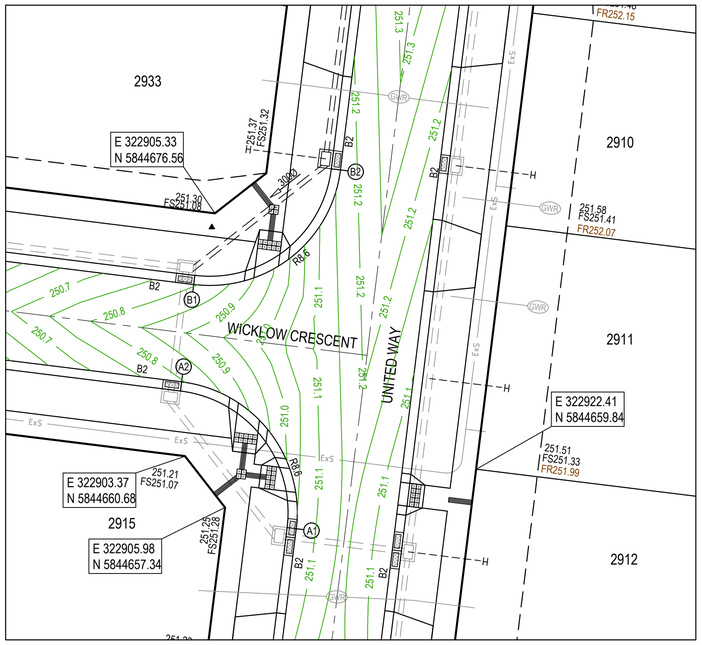
smec an SJ company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

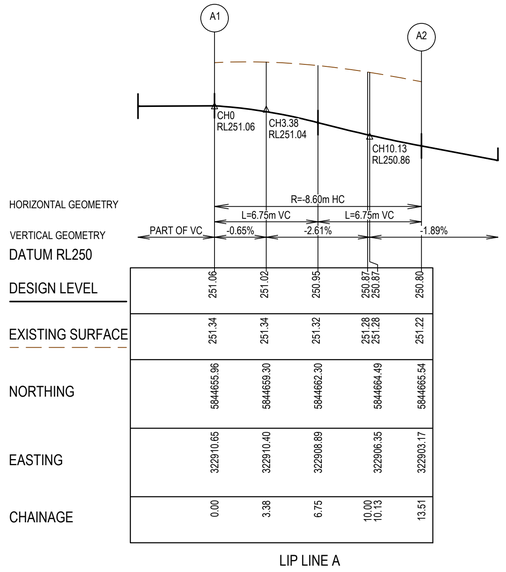
mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Signage & Linemarking Plan

MELWAYS REF 367 G11 | PROJECT / DRAWING No. 1700E-029-171 | SHEET No. 05 of 27 | REVISION A

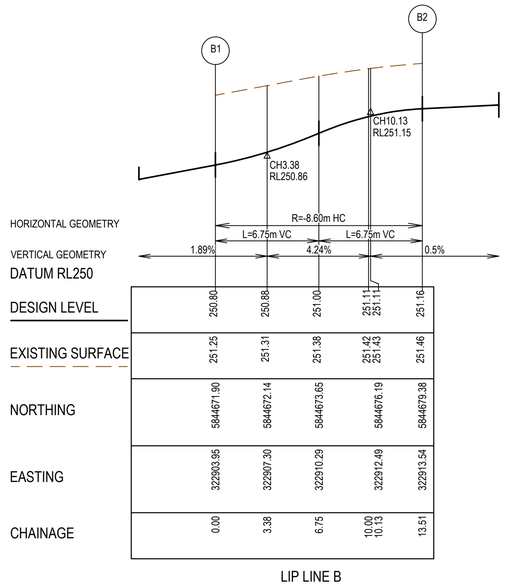
DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-171.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:14 PM





HORIZONTAL GEOMETRY					
VERTICAL GEOMETRY					
DATUM RL250					
DESIGN LEVEL	251.06	251.02	250.95	250.87 250.87	250.80
EXISTING SURFACE	251.34	251.34	251.32	251.28 251.28	251.22
NORTHING	5844655.96	5844659.30	5844662.30	5844664.49	5844665.54
EASTING	322910.65	322910.40	322908.89	322906.35	322903.17
CHAINAGE	0.00	3.38	6.75	10.00 10.13	13.51

LIP LINE A



HORIZONTAL GEOMETRY					
VERTICAL GEOMETRY					
DATUM RL250					
DESIGN LEVEL	250.80	250.88	251.00	251.11 251.11	251.16
EXISTING SURFACE	251.25	251.31	251.38	251.42 251.43	251.46
NORTHING	5844671.90	5844672.14	5844673.65	5844676.19	5844679.38
EASTING	322903.95	322907.30	322910.29	322912.49	322913.54
CHAINAGE	0.00	3.38	6.75	10.00 10.13	13.51

LIP LINE B

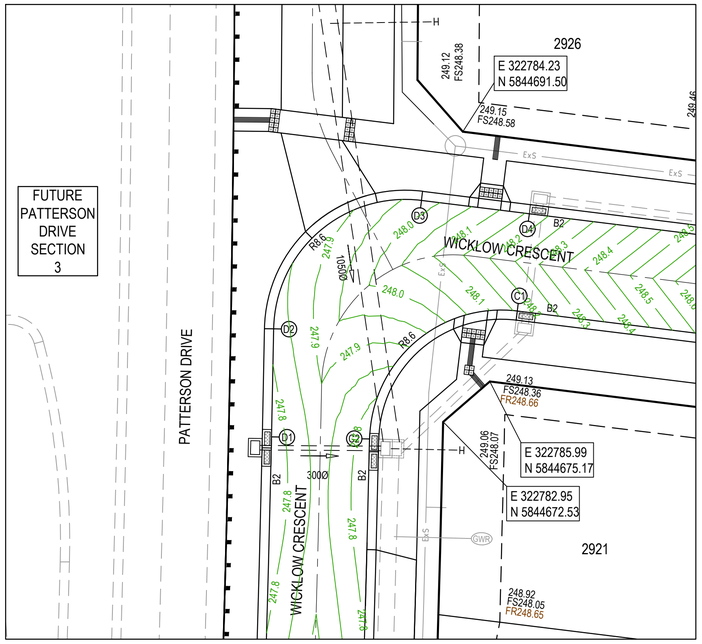
LEGEND - INTERSECTION DETAIL PLAN

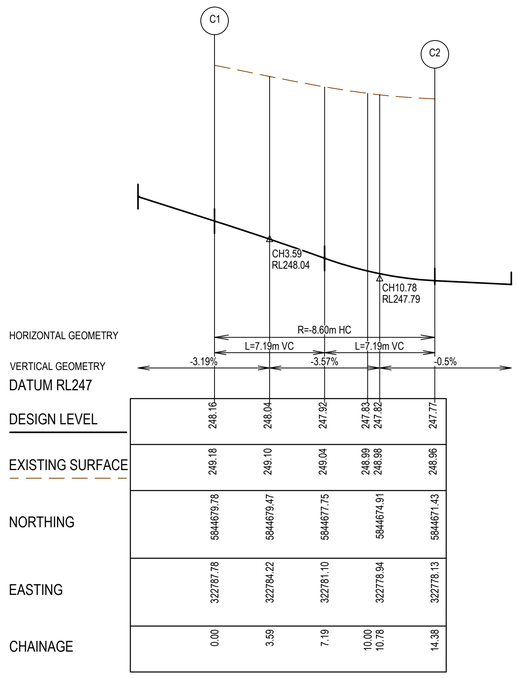
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

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

NOTES

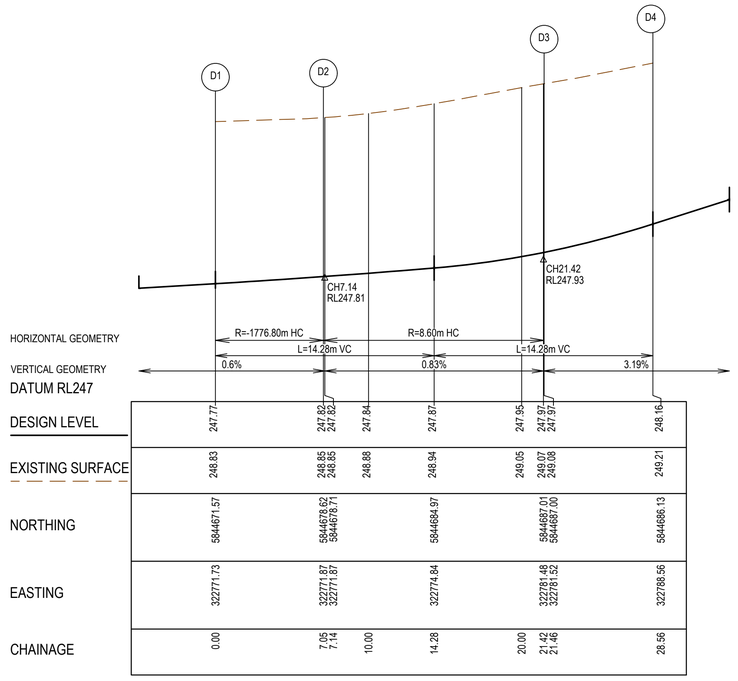
1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED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





HORIZONTAL GEOMETRY					
VERTICAL GEOMETRY					
DATUM RL247					
DESIGN LEVEL	248.16	248.04	247.92	247.83 247.82	247.77
EXISTING SURFACE	249.18	249.10	249.04	248.99 248.98	248.96
NORTHING	5844679.78	5844679.47	5844677.75	5844674.91	5844671.43
EASTING	322787.78	322784.22	322781.10	322778.94	322778.13
CHAINAGE	0.00	3.59	7.19	10.00 10.78	14.38

LIP LINE C



HORIZONTAL GEOMETRY						
VERTICAL GEOMETRY						
DATUM RL247						
DESIGN LEVEL	247.77	247.82 247.82	247.84	247.87	247.95 247.97	248.16
EXISTING SURFACE	248.83	248.85 248.85	248.88	248.94	249.05 249.08	249.21
NORTHING	5844671.57	5844678.82 5844678.81		5844684.97	5844687.01 5844687.00	5844686.13
EASTING	322771.73	322771.87 322771.87		322774.84	322781.48 322781.52	322788.56
CHAINAGE	0.00	7.05 7.14	10.00	14.28	20.00 21.46	28.56

LIP LINE D

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

Scale 1:200 (0 2 4 8)

Scale H1:200, V1:20 (0 0.2 0.4 0.8)

SCALE AS SHOWN AT A1

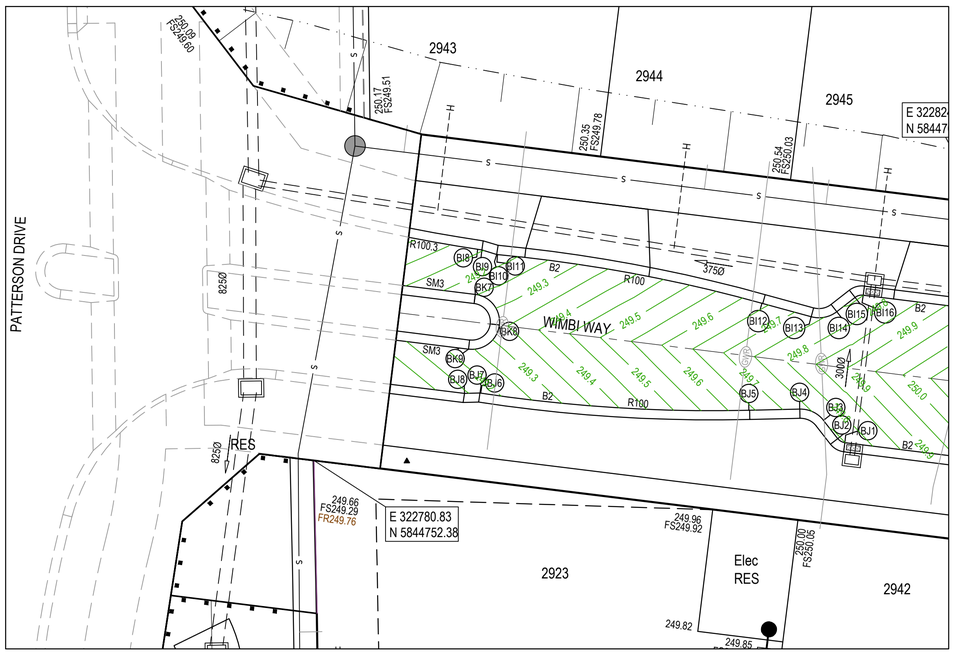
N

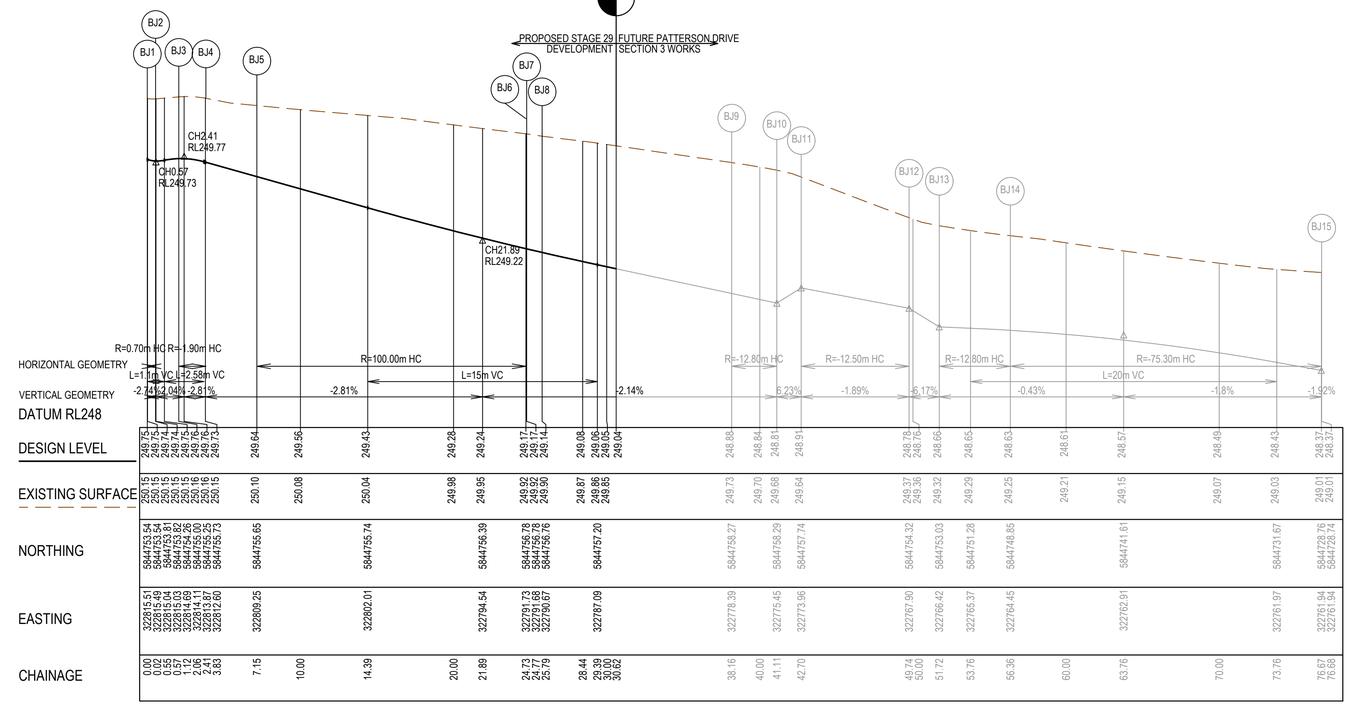
smec an SJ company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

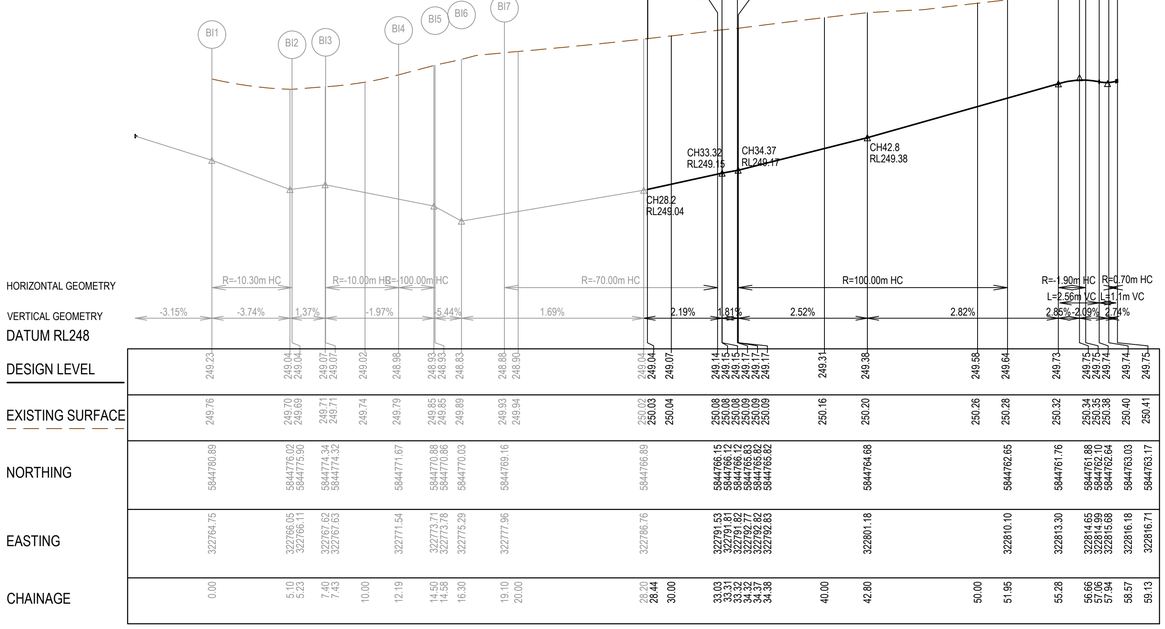
mirvac

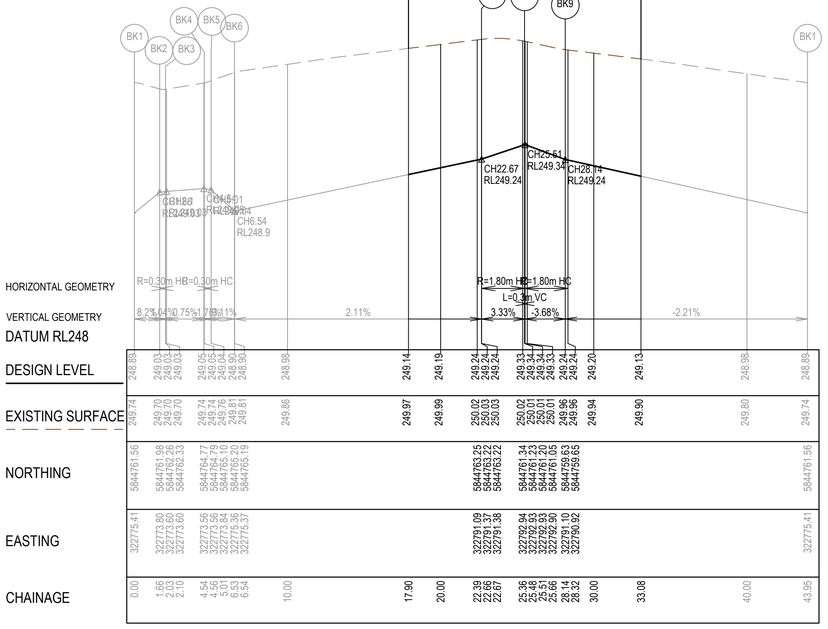
Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Intersection Detail Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-181	06 of 27	A









NOTES

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

LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
S	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
SWR	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
SWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
H	FUTURE HOUSE DRAIN
SWR	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

Scale 1:200 (0 2 4 8)

Scale H1:200, V1:20 (0 0.2 0.4 0.8)
SCALE AS SHOWN AT A1

N

smec an SNC company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
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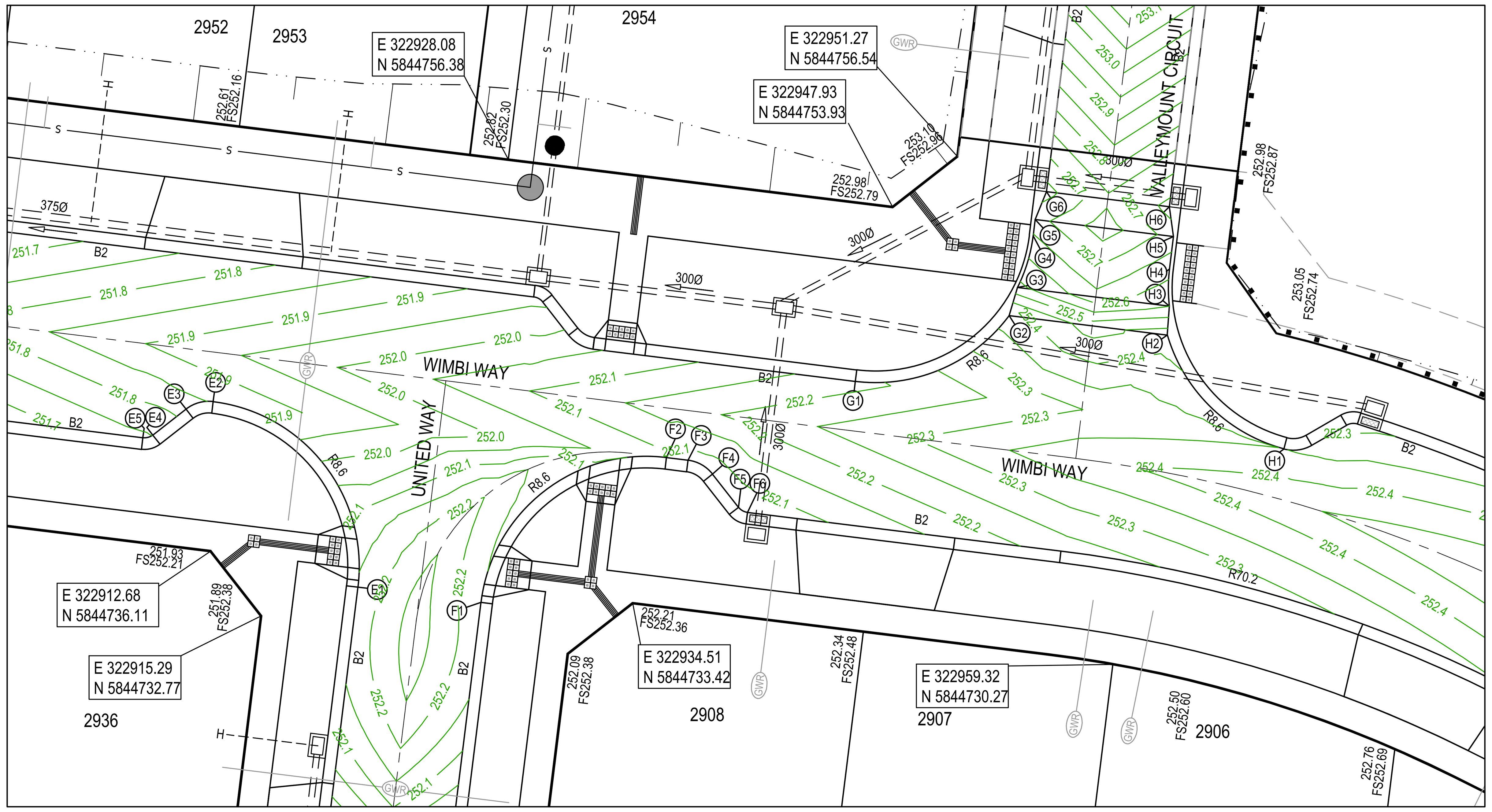
Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Intersection Detail Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-182	07 of 27	A



LEGEND - INTERSECTION DETAIL PLAN ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY
STORMWATER DRAIN, PIT & PROPERTY INLET
MAIN DRAIN
SEWER & MAINTENANCE STRUCTURES
HOUSE DRAIN
SERVICE CONDUITS
TACTILE PAVERS
EXISTING STORMWATER DRAIN
EXISTING MAIN DRAIN
EXISTING SEWER & MAINTENANCE STRUCTURES
EXISTING SERVICE CONDUITS
EXISTING TACTILE PAVERS
FUTURE STORMWATER DRAIN
FUTURE MAIN DRAIN
FUTURE SEWER & MAINTENANCE STRUCTURES
FUTURE HOUSE DRAIN
FUTURE SERVICE CONDUITS
FUTURE TACTILE PAVERS
EXISTING RETAINING WALL
RETAINING WALL
FUTURE RETAINING WALL
EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
PERMANENT SURVEY MARK
TEMPORARY BENCH MARK
PROPOSED DRIVEWAY & FOOTPATH

NOTES

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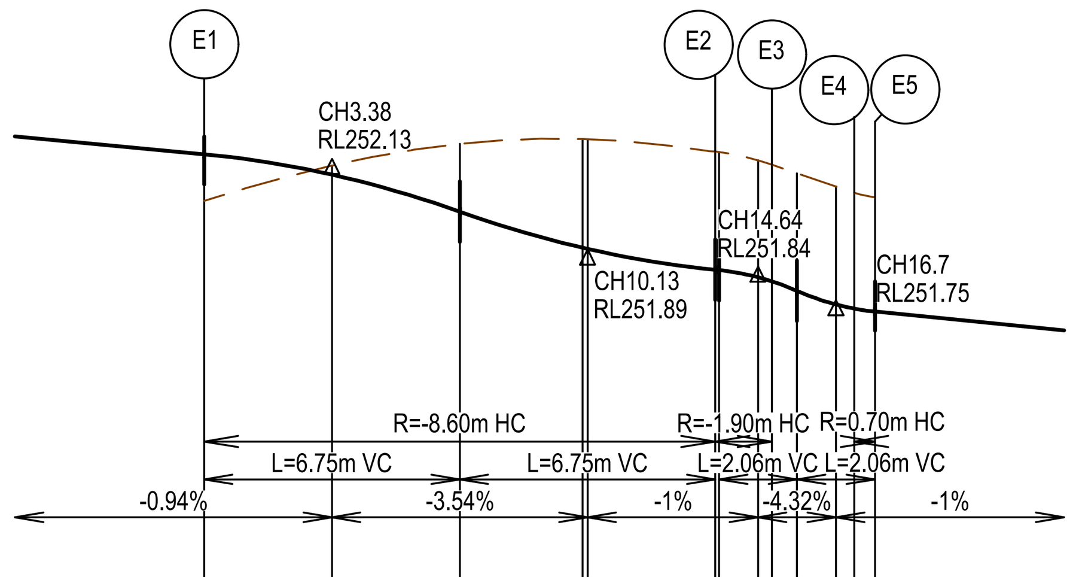
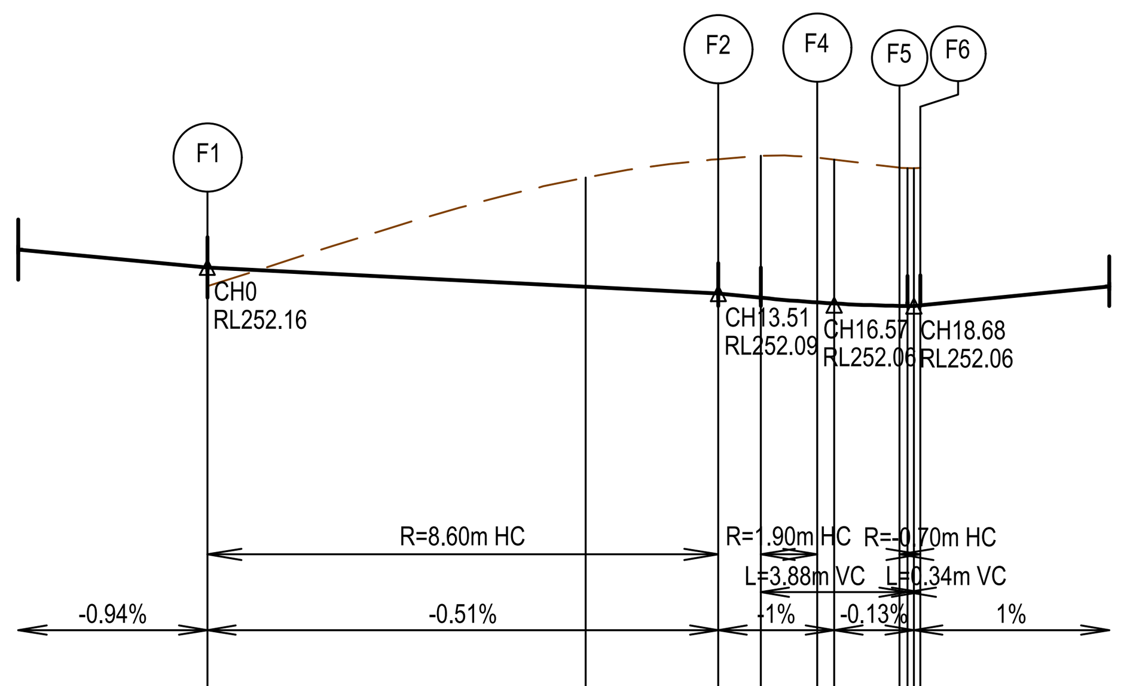
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
5. SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.



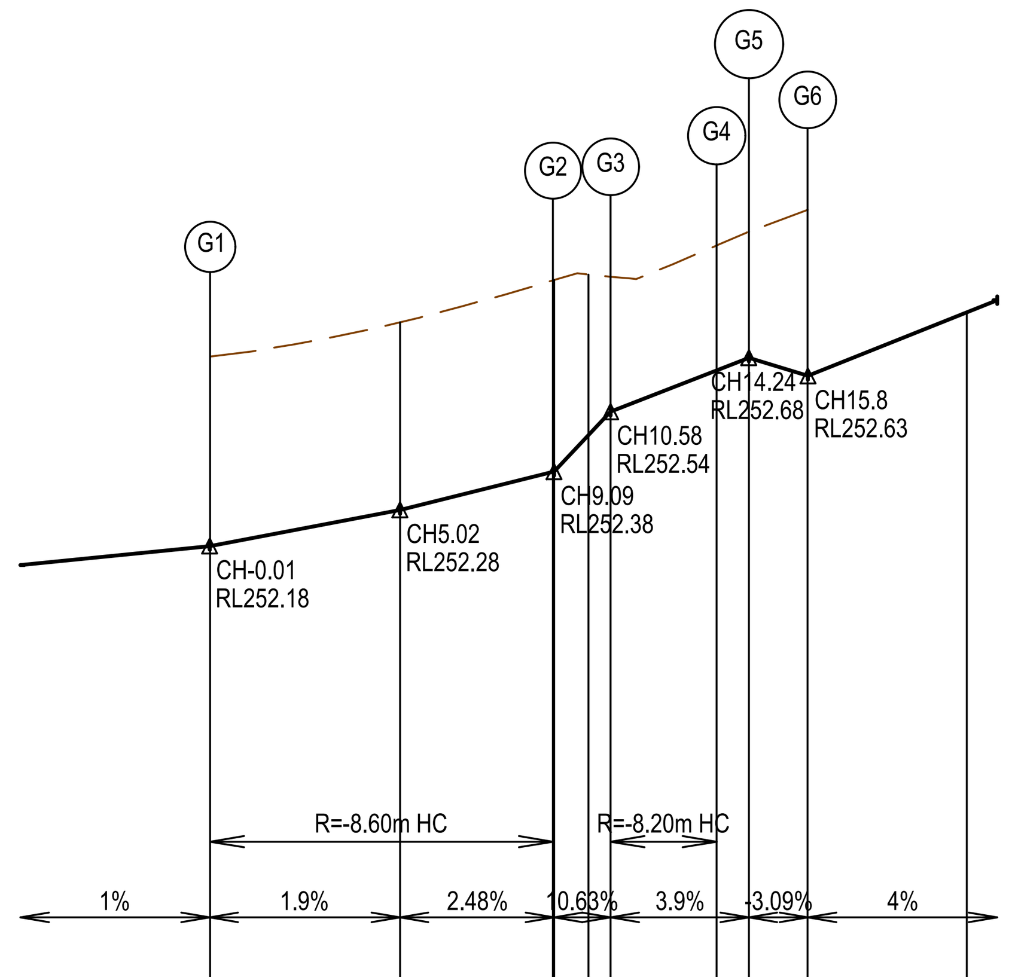
DESIGN LEVEL	252.16	252.10	252.01	251.91	251.91	251.85	251.85	251.83	251.82	251.80	251.76	251.75	251.74
EXISTING SURFACE	252.04	252.13	252.19	252.20	252.20	252.17	252.16	252.14	252.13	252.11	252.07	252.06	252.04
NORTHING	5844734.26	5844737.61	5844740.61	5844742.80		5844743.85	5844743.86	5844743.66	5844743.46	5844743.05	5844742.42	5844742.12	5844741.98
EASTING	322920.31	322920.06	322918.56	322916.02		322912.83	322912.73	322911.73	322911.43	322910.90	322910.09	322909.71	322909.20
CHAINAGE	0.00	3.38	6.75	10.00	10.13	13.51	13.61	14.64	15.00	15.67	16.70	17.18	17.73

LIP LINE E



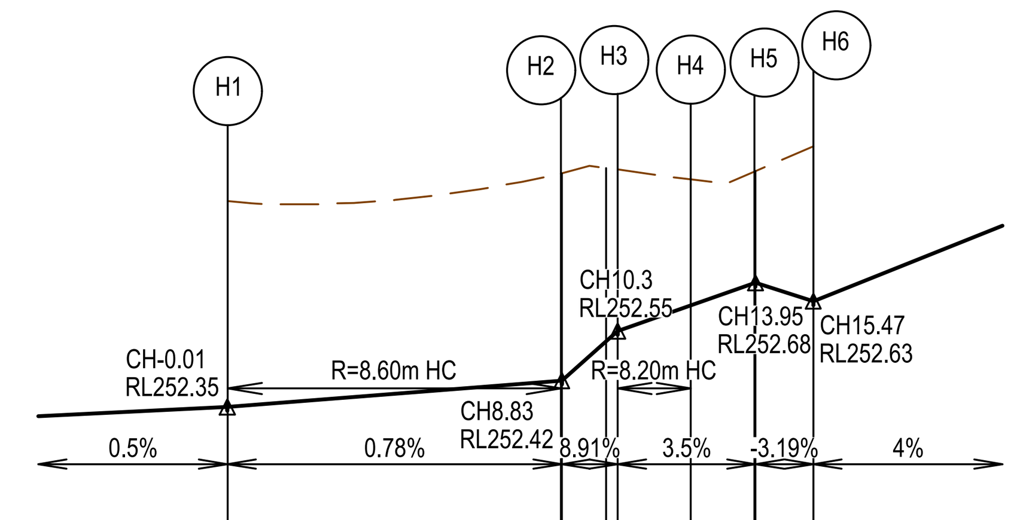
DESIGN LEVEL	252.16	252.11	252.09	252.08	252.07	252.06	252.06	252.06	252.06	252.06
EXISTING SURFACE	252.11	252.40	252.44	252.45	252.45	252.44	252.42	252.42	252.42	252.42
NORTHING	5844733.48		5844740.96	5844740.82	5844740.11	5844739.75	5844738.39	5844738.25	5844738.17	5844738.13
EASTING	322926.66		322936.25	322937.37	322938.63	322938.91	322939.97	322940.12	322940.27	322940.44
CHAINAGE	0.00	10.00	13.51	14.63	16.12	16.57	18.30	18.51	18.68	18.85

LIP LINE F



DESIGN LEVEL	252.18	252.28	252.38	252.38	252.47	252.54	252.65	252.68	252.63	252.80
EXISTING SURFACE	252.68	252.77	252.88	252.88	252.90	252.89	252.98	253.01	253.07	
NORTHING	5844744.90	5844745.73	5844748.30	5844748.32		5844749.76	5844752.43	5844753.27	5844754.71	
EASTING	322946.01	322950.89	322953.96	322953.97		322954.39	322955.20	322955.30	322955.88	
CHAINAGE	0.00	5.02	9.06	9.09	10.00	10.58	13.39	14.24	15.79	20.00

LIP LINE G



DESIGN LEVEL	252.35	252.42	252.42	252.53	252.55	252.62	252.68	252.68	252.63
EXISTING SURFACE	252.90	252.97	252.97	252.98	252.98	252.95	252.97	252.97	253.04
NORTHING	5844741.40	5844747.29	5844747.32		5844748.79	5844750.71	5844752.39	5844752.42	5844753.93
EASTING	322968.15	322962.13	322962.13		322962.23	322962.24	322962.45	322962.45	322962.24
CHAINAGE	0.00	8.80	8.83	10.00	10.30	12.23	13.92	13.95	15.47

LIP LINE H

B

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	KERBS PROFILE & PAVEMENT CONTOURS	K.KANG	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H
PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

N

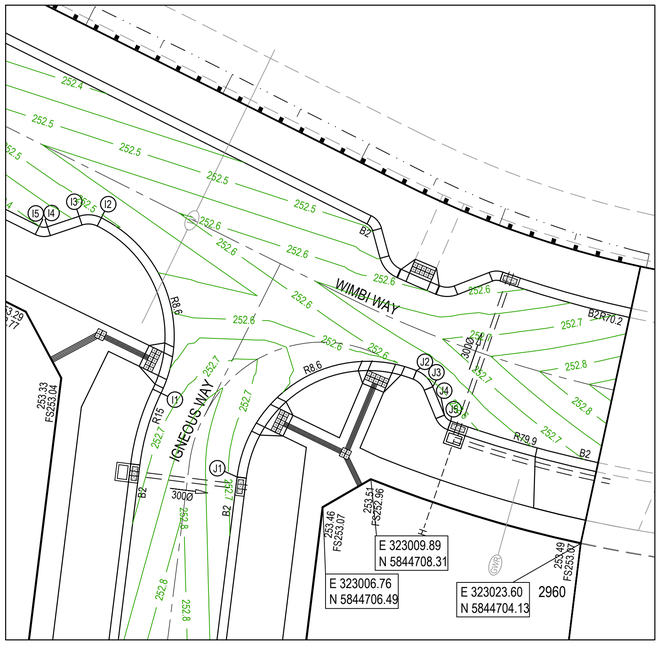
smec — an SJ company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

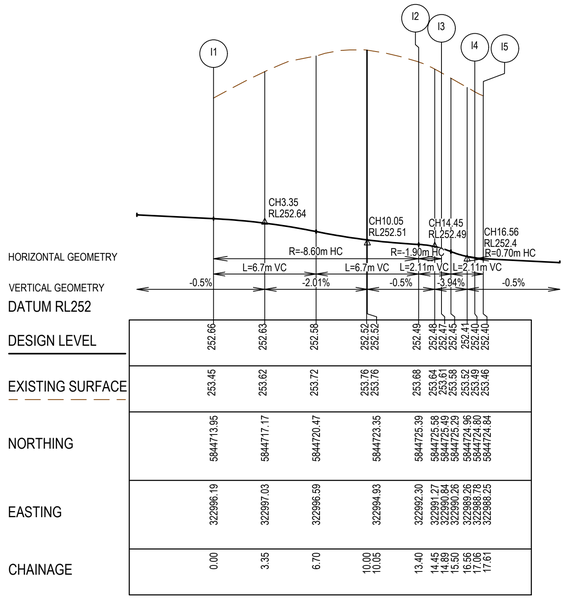
mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Intersection Detail Plan

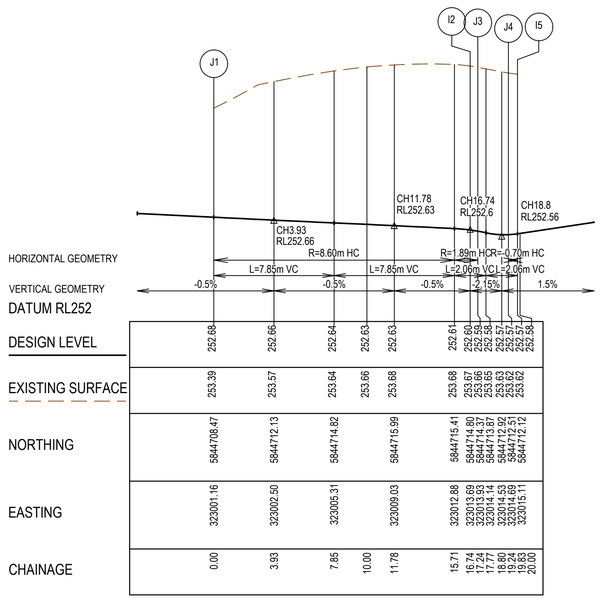
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-183	08 of 27	B

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-183.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:12 PM





LIP LINE I

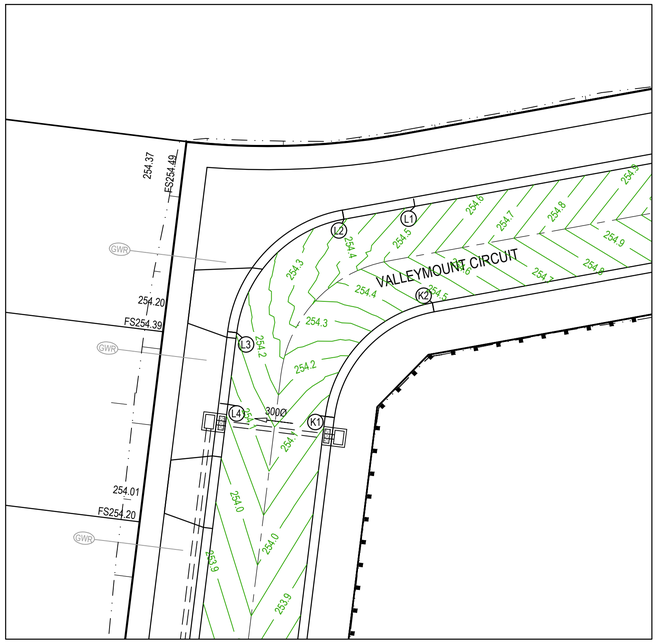


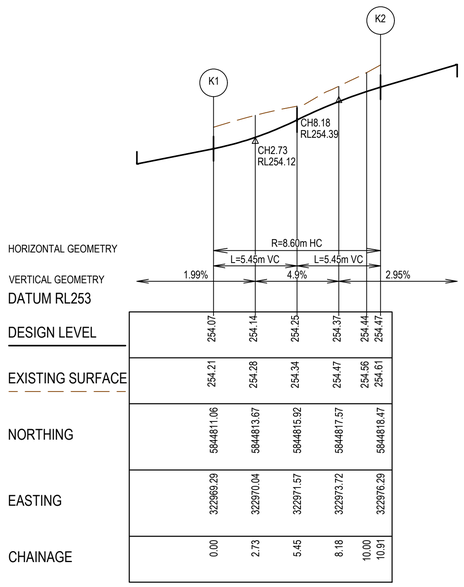
LIP LINE J

LEGEND - INTERSECTION DETAIL PLAN ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

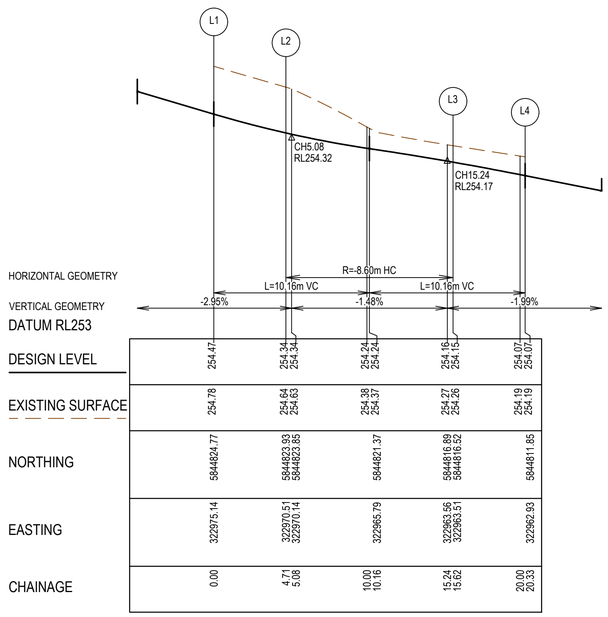
NOTES

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





LIP LINE K



LIP LINE L

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

0 2 4 8
Scale 1:200

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

N

smec an SNC company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

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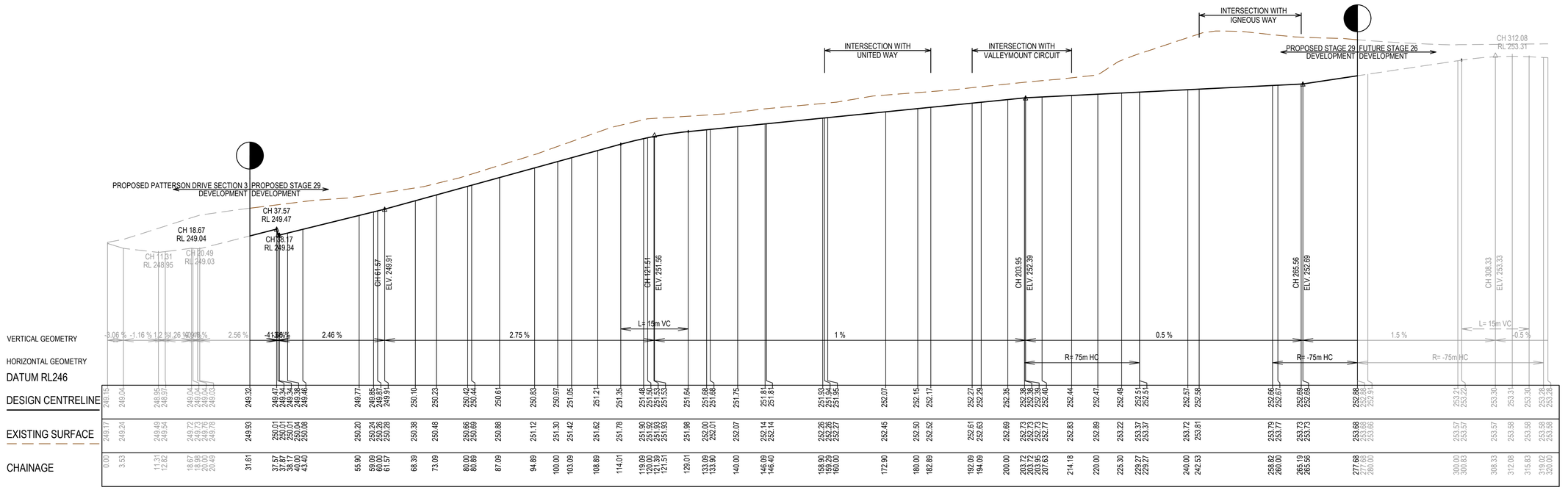
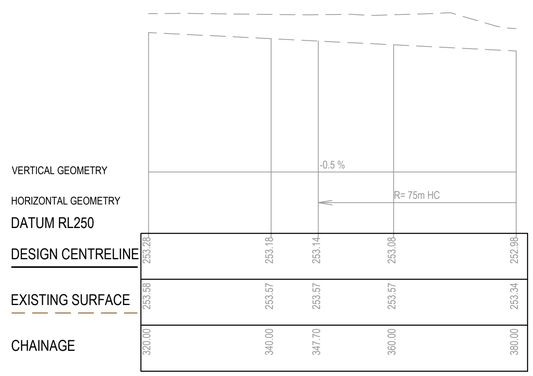
Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Intersection Detail Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-184	09 of 27	A

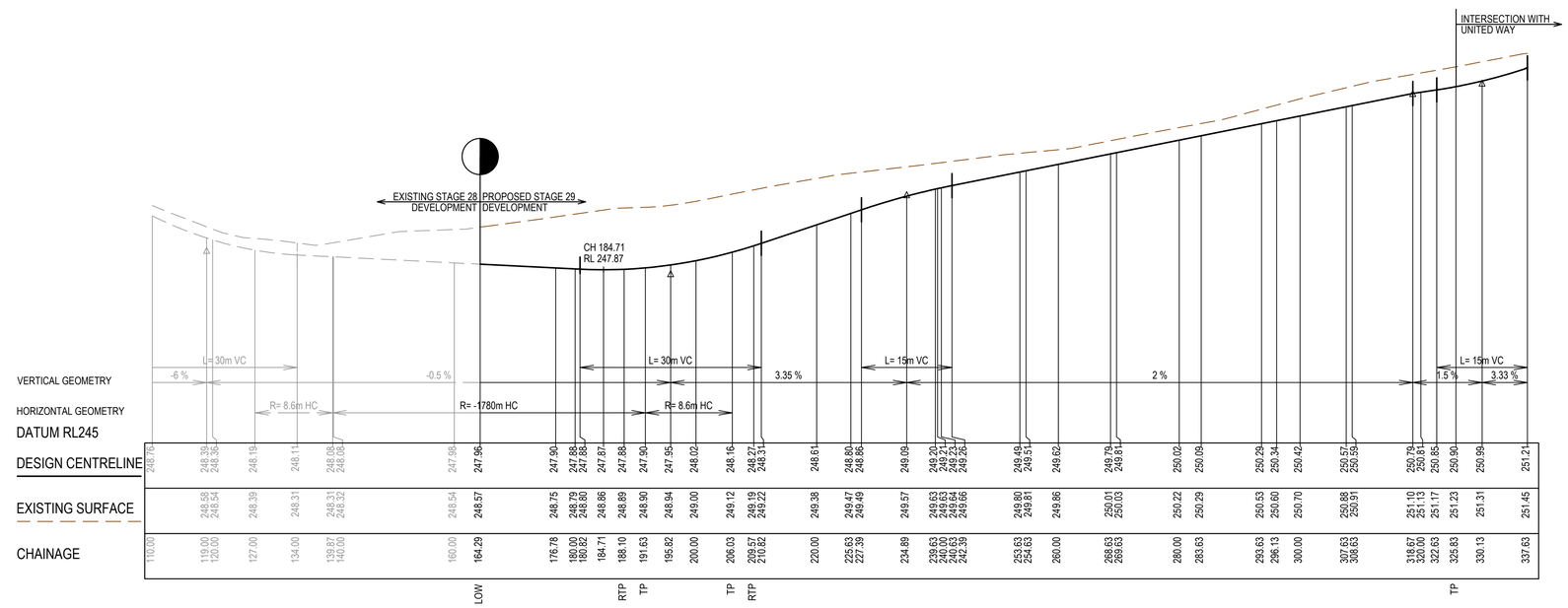
DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-184.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:14 PM



WIMBI WAY LONGITUDINAL SECTION - 1



WIMBI WAY LONGITUDINAL SECTION - 2



WICKLOW CRESCENT LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

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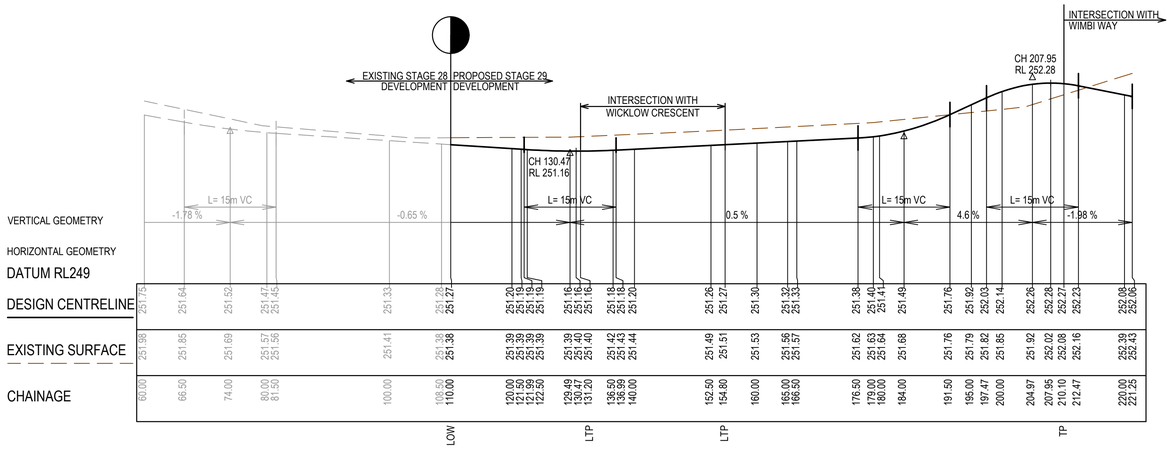
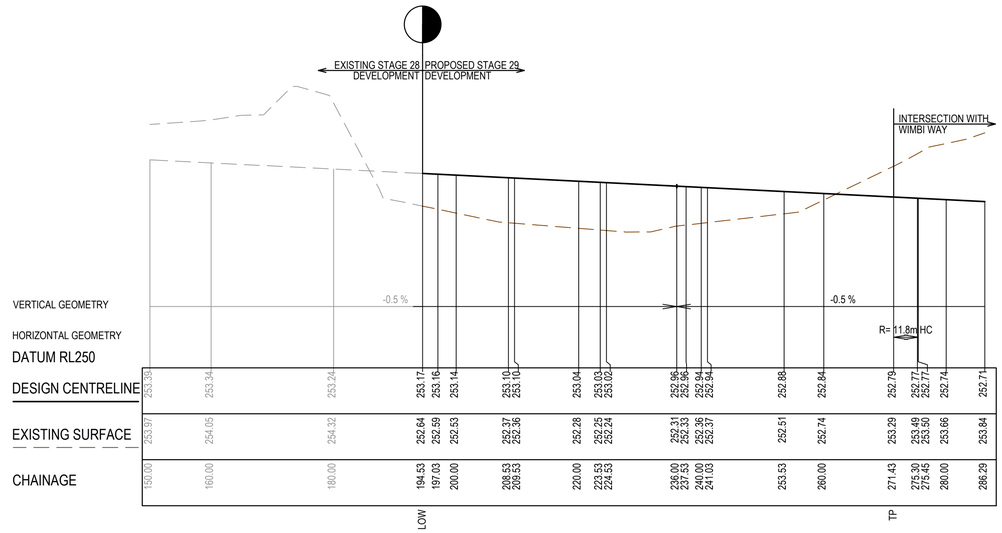
Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-201	10 of 27	A

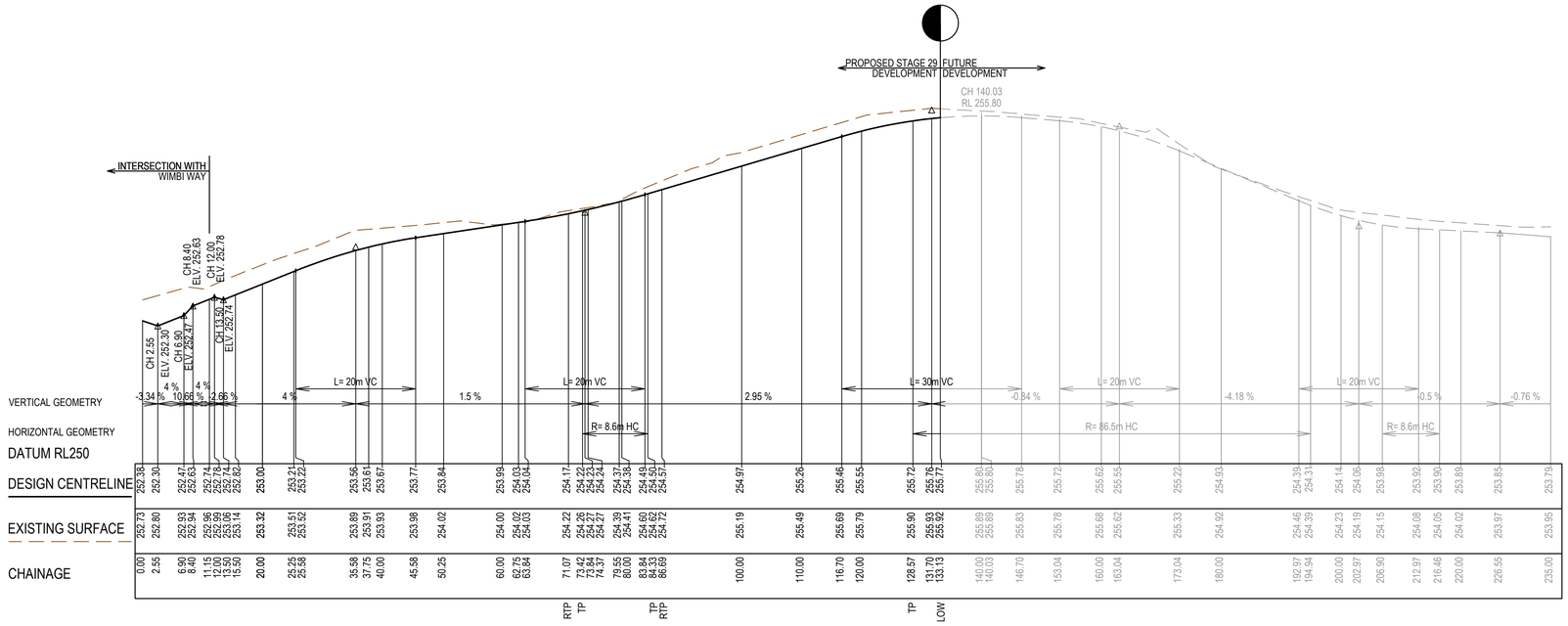
DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-201.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:01:57 PM



UNITED WAY LONGITUDINAL SECTION



IGNEOUS WAY LONGITUDINAL SECTION



VALLEYMOUT CIRCUIT LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H
PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

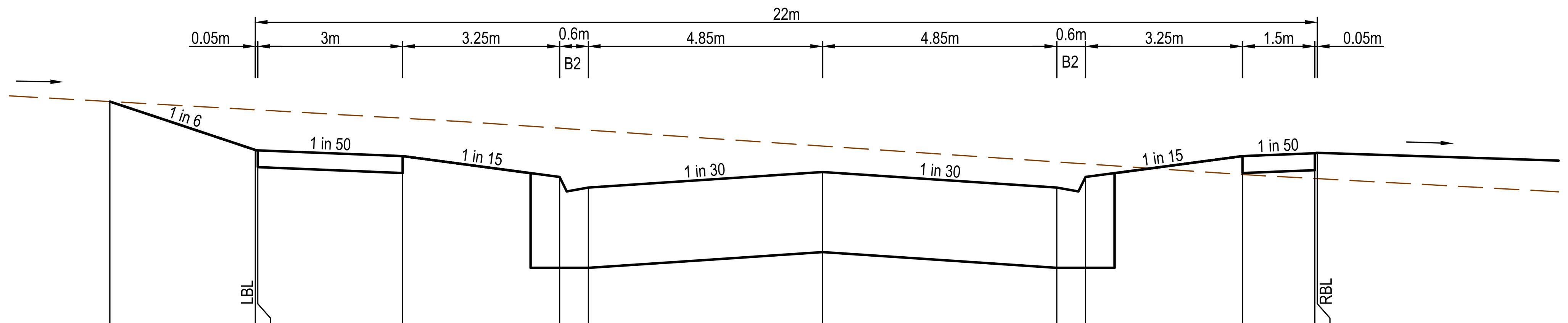
smec an SC company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-202	11 of 27	A

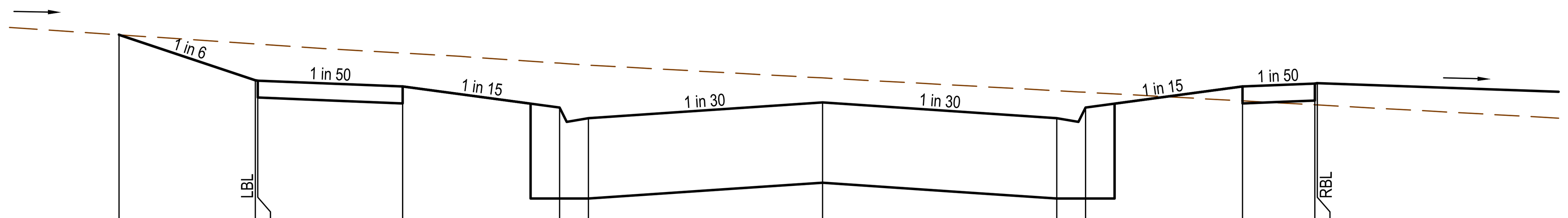
TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



DATUM249.0

DESIGN SURFACE	251.35	250.84 250.84	250.78	250.56	250.45	250.61	250.45	250.56	250.78	250.81 250.81
EXISTING SURFACE	251.35	251.26 251.26	251.17	251.07	251.05	250.88	250.72	250.70	250.59	250.55 250.55
OFFSET	-14.76	-11.75 -11.70	-8.70	-5.45	-4.85	0.00	4.85	5.45	8.70	10.20 10.25

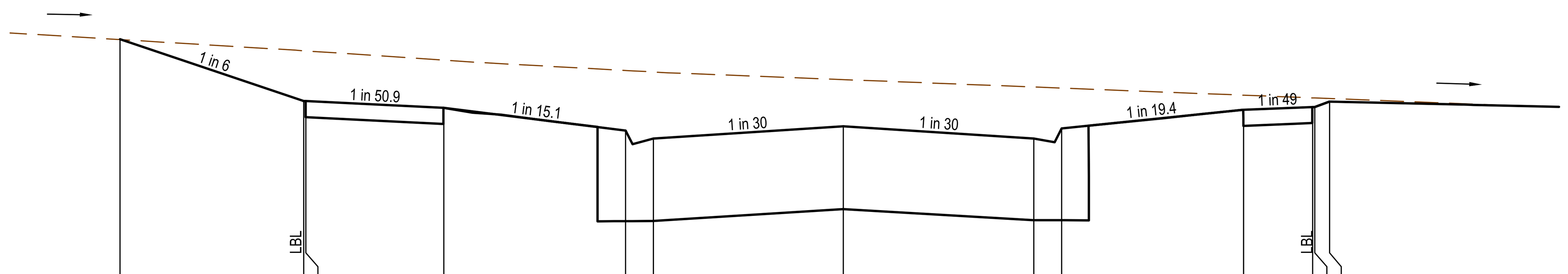
CH 87.09



DATUM249.0

DESIGN SURFACE	250.93	250.46 250.45	250.39	250.18	250.07	250.23	250.07	250.18	250.39	250.42 250.43
EXISTING SURFACE	250.93	250.83 250.83	250.74	250.64	250.62	250.48	250.35	250.33	250.25	250.20 250.20
OFFSET	-14.57	-11.75 -11.70	-8.70	-5.45	-4.85	0.00	4.85	5.45	8.70	10.20 10.25

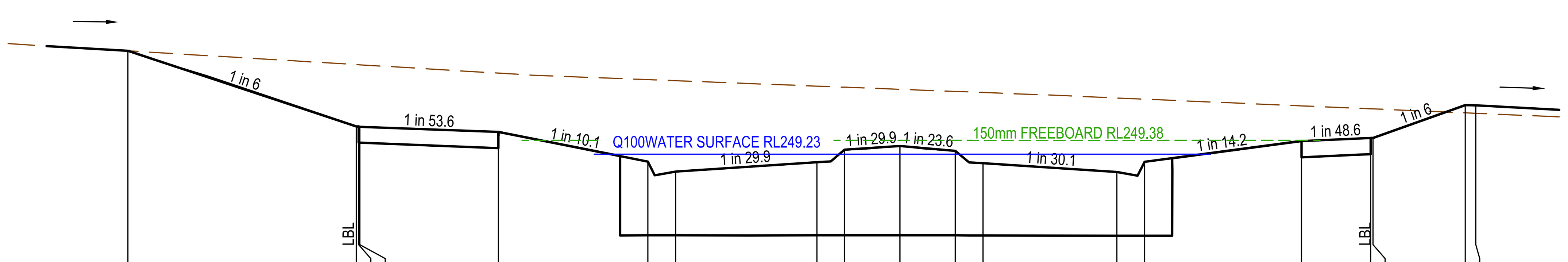
CH 73.09



DATUM248.0

DESIGN SURFACE	250.58	249.90 249.90	249.84	249.58	249.49	249.63	249.50	249.60	249.81	249.84 249.84 249.90
EXISTING SURFACE	250.57	250.45 250.45	250.35	250.24	250.22	250.14	250.06	250.04	249.97	249.94 249.94 249.93
OFFSET	-15.75	-11.75 -11.70	-8.70	-4.75	-4.14	-0.01	4.14	4.74	8.70	10.20 10.25 10.57

CH 50.00

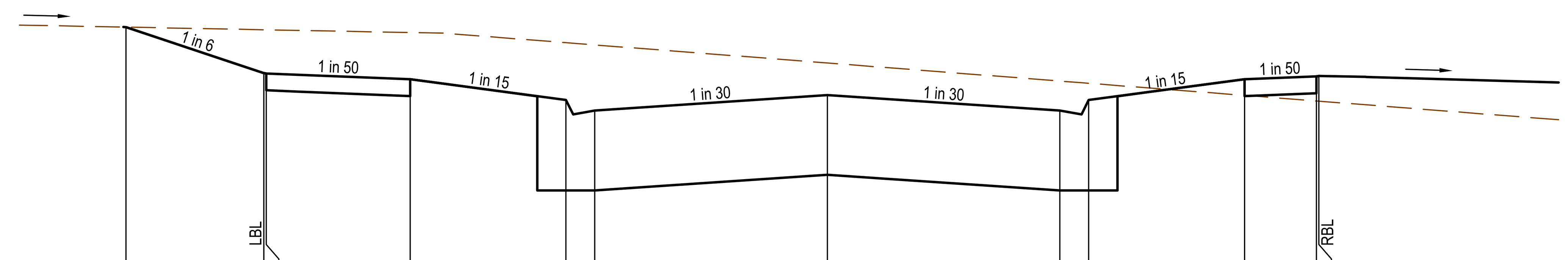


DATUM248.0

DESIGN SURFACE	250.35	249.53 249.53 249.53	249.47	249.15	249.04	249.14	249.28	249.32	249.27	249.13	249.04	249.15	249.38	249.41 249.40	249.76 249.76
EXISTING SURFACE	250.35	250.20 250.20 250.20	250.11	250.04	250.03	249.97	249.96	249.93	249.91	249.90	249.84	249.83	249.75	249.72 249.72	249.68 249.67
OFFSET	-16.73	-11.78 -11.73 -11.70	-8.70	-5.46	-4.86	-1.80	-1.20	0.00	1.20	1.80	4.70	5.30	8.70	10.20 10.25	12.25 12.48

LIMIT OF WORK
CH 31.61

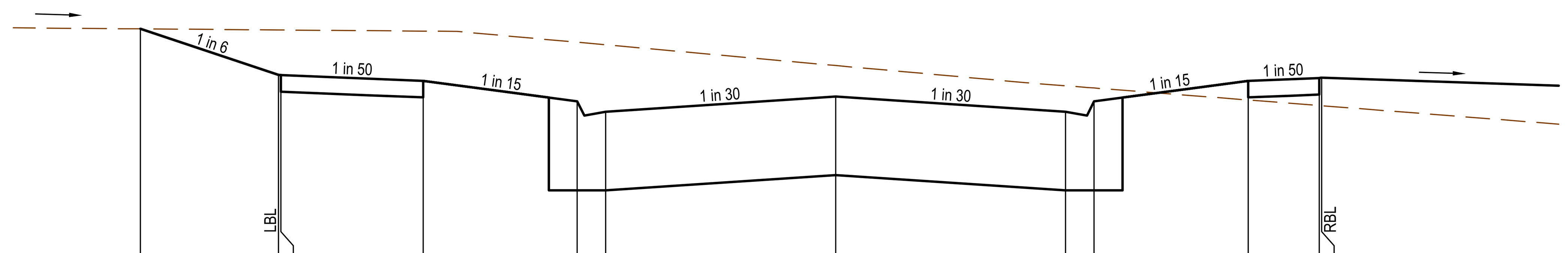
B



DATUM250.0

DESIGN SURFACE	252.51	252.03 252.03	251.97	251.75	251.64	251.81	251.64	251.75	251.97	252.00 252.00
EXISTING SURFACE	252.51	252.49 252.49	252.46	252.35	252.33	252.14	251.95	251.93	251.80	251.75 251.74
OFFSET	-14.62	-11.75 -11.70	-8.70	-5.45	-4.85	0.00	4.85	5.45	8.70	10.20 10.25

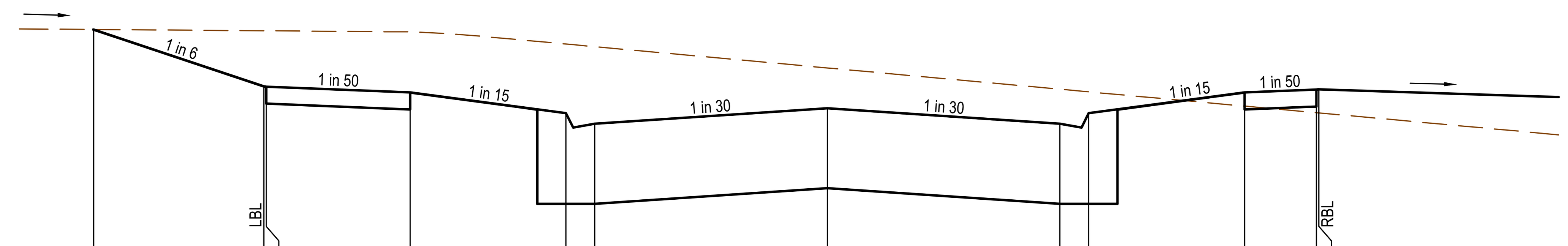
CH 146.09



DATUM250.0

DESIGN SURFACE	252.39	251.90 251.90	251.84	251.62	251.51	251.68	251.51	251.62	251.84	251.87 251.87
EXISTING SURFACE	252.39	252.38 252.38	252.37	252.25	252.22	252.00	251.79	251.77	251.64	251.58 251.58
OFFSET	-14.66	-11.75 -11.70	-8.70	-5.45	-4.85	0.00	4.85	5.45	8.70	10.20 10.25

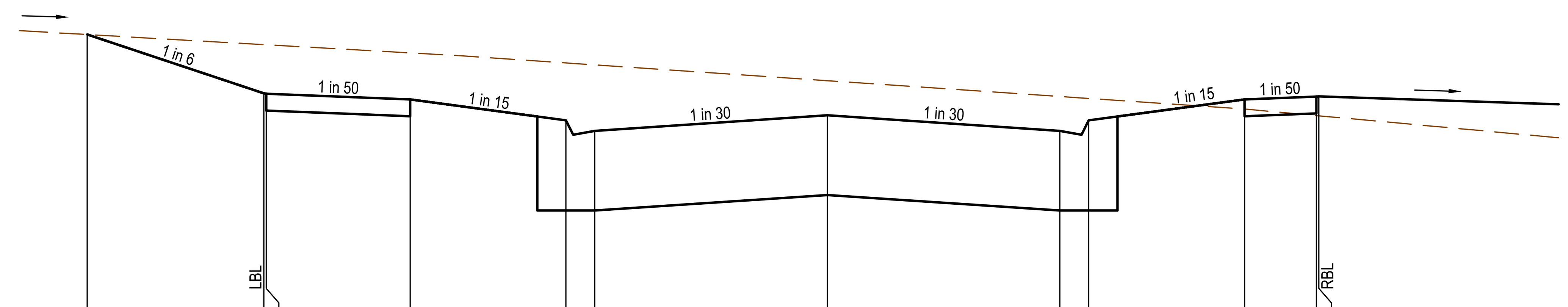
CH 133.09



DATUM250.0

DESIGN SURFACE	252.30	251.71 251.70	251.64	251.43	251.32	251.48	251.32	251.43	251.64	251.67 251.68
EXISTING SURFACE	252.30	252.29 252.29	252.27	252.15	252.12	251.90	251.68	251.65	251.50	251.43 251.43
OFFSET	-15.30	-11.75 -11.70	-8.70	-5.45	-4.85	0.00	4.85	5.45	8.70	10.20 10.25

CH 119.09



DATUM249.0

DESIGN SURFACE	251.90	251.28 251.28	251.22	251.00	250.89	251.05	250.89	251.00	251.22	251.25 251.25
EXISTING SURFACE	251.90	251.79 251.79	251.70	251.60	251.58	251.42	251.25	251.23	251.12	251.05 251.05
OFFSET	-15.43	-11.75 -11.70	-8.70	-5.45	-4.85	0.00	4.85	5.45	8.70	10.20 10.25

CH 103.09

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	CROSS SECTIONS UPDATED	K.KANG	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO.
PS913459H
PERMIT REF. NO.
719067

SUBJECT TO APPROVAL

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

smec
an SJ company

Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
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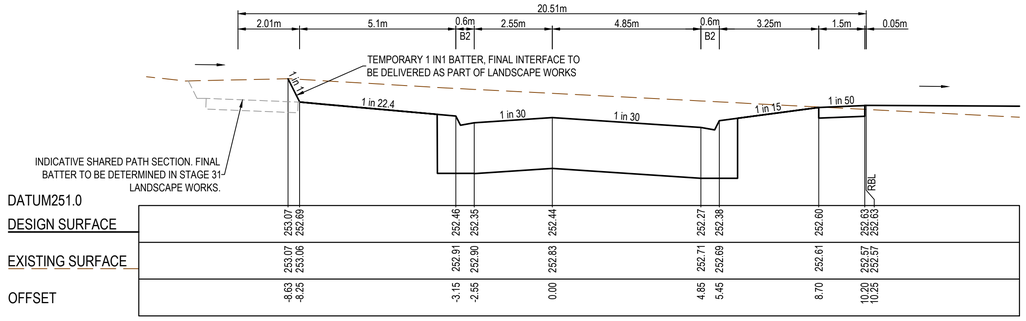
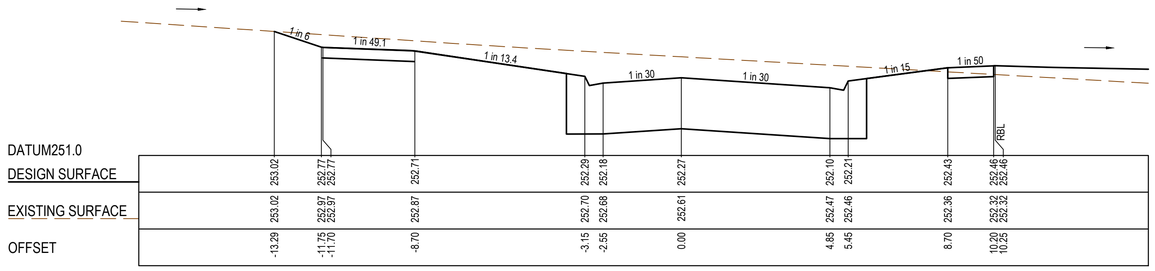
Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Cross Sections: Wimbi Way
Ch 31.61 - Ch 146.09

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-251	12 of 27	B

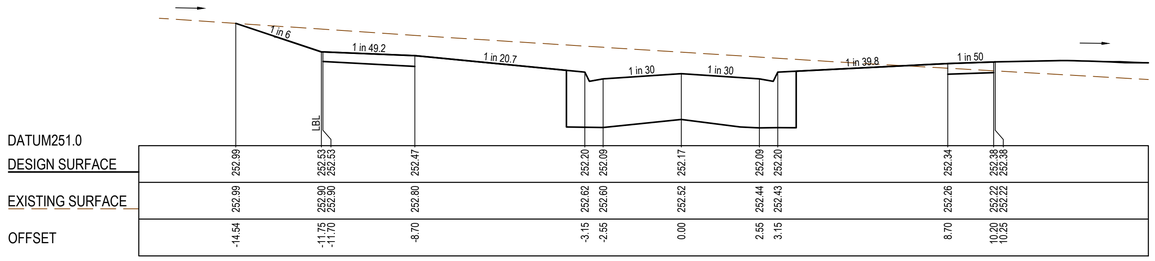
TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



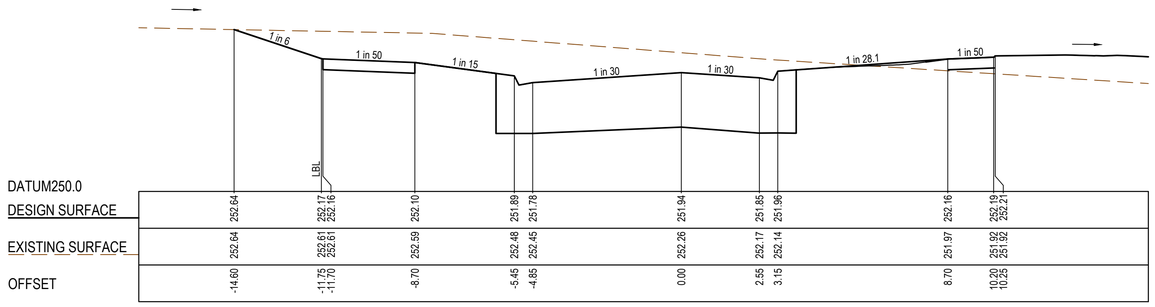
LTPCH 214.18



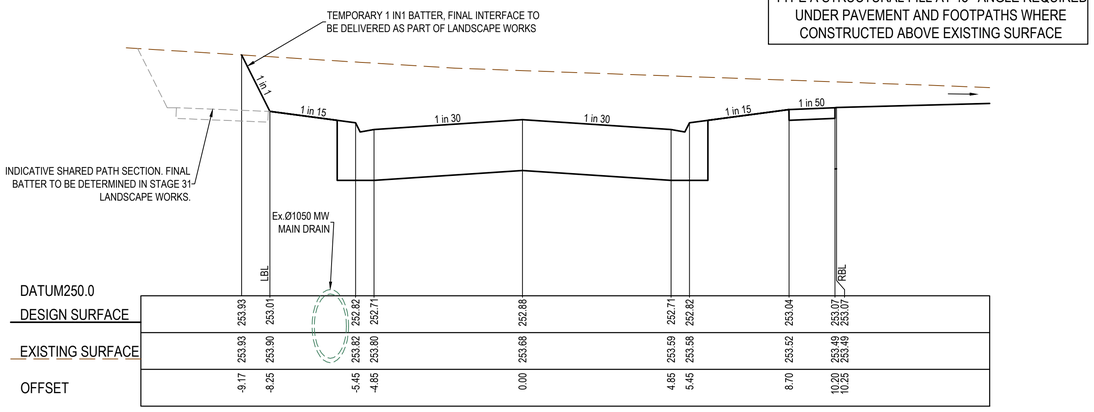
LTPCH 192.09



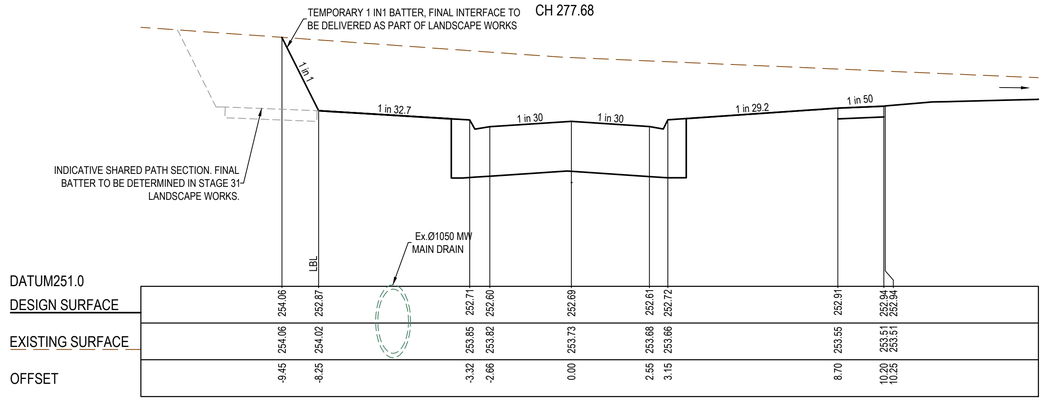
RTPCH 182.89



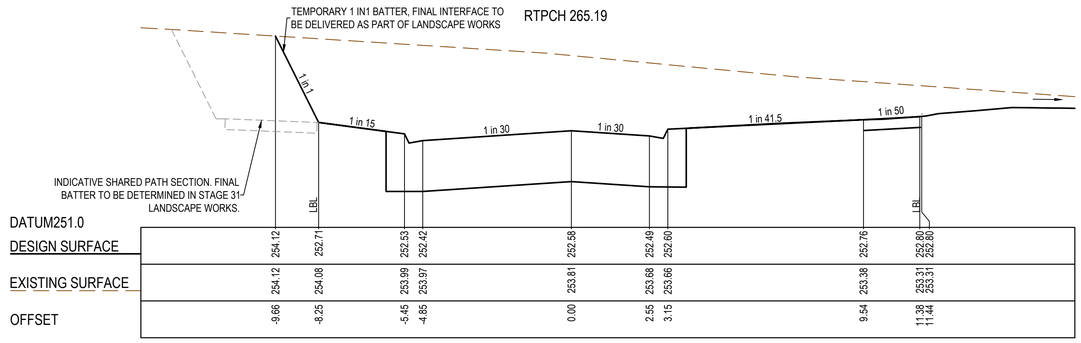
RTPCH 159.29



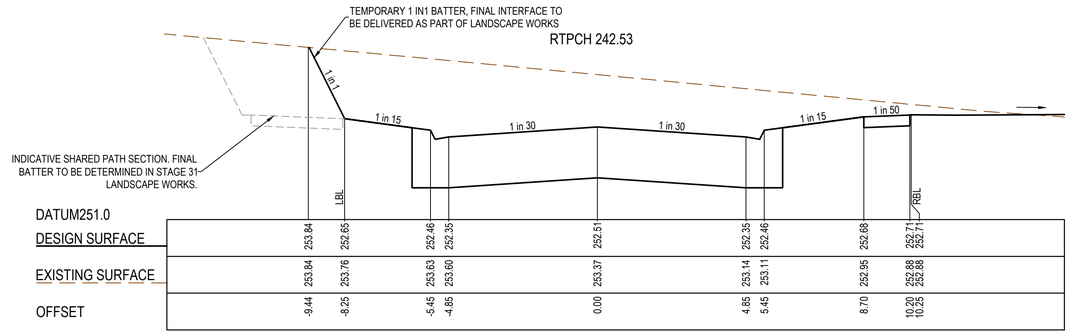
LIMIT OF WORK CH 277.68



RTPCH 265.19



RTPCH 242.53



TPCH 229.27

B

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	CROSS SECTIONS UPDATED	K.KANG	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

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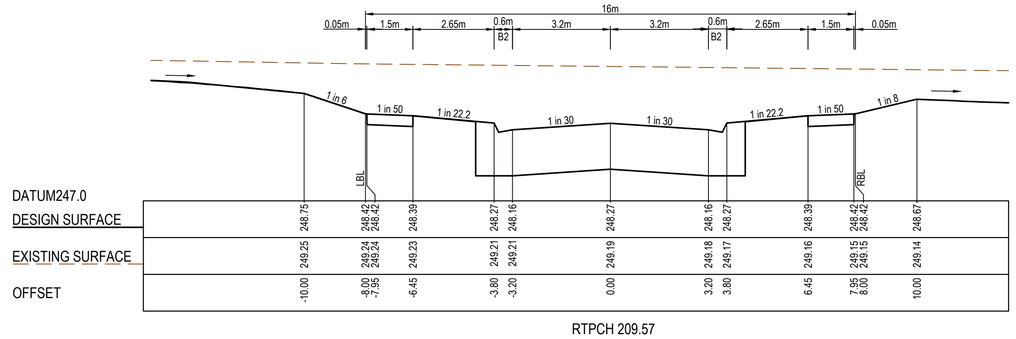
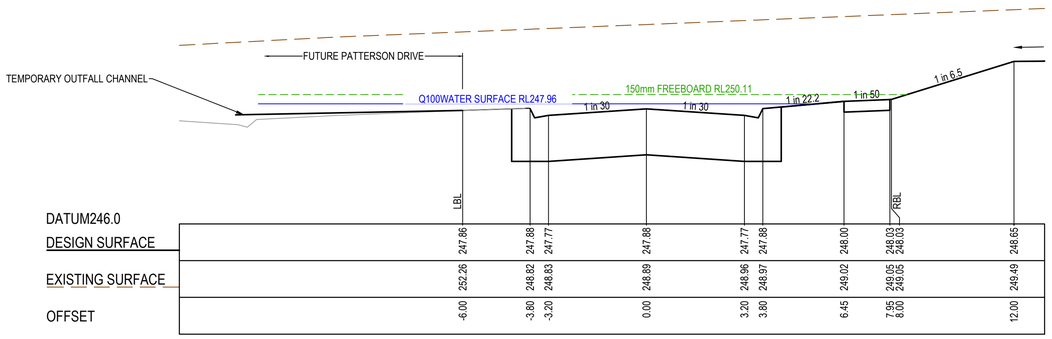
Whittlesea City Council
Road and Drainage
Cross Sections: Wimbi Way
Ch 159.29 - Ch 277.68

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-252	13 of 27	B

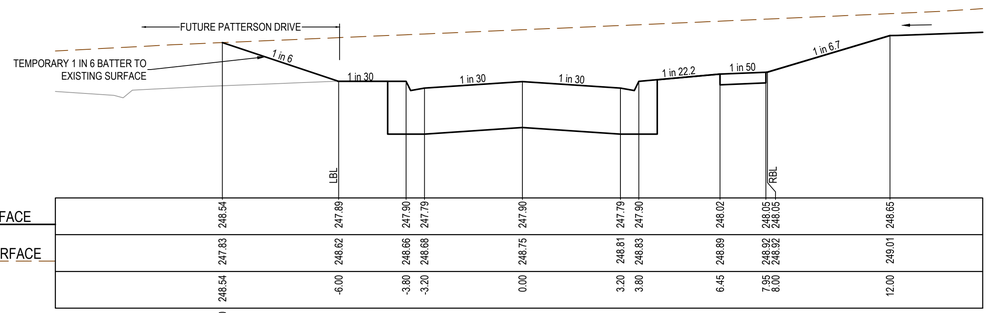
TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



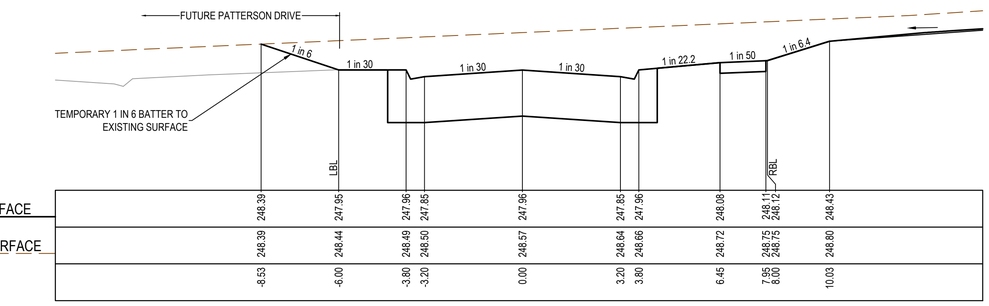
RTPCH 209.57



RTPCH 188.10

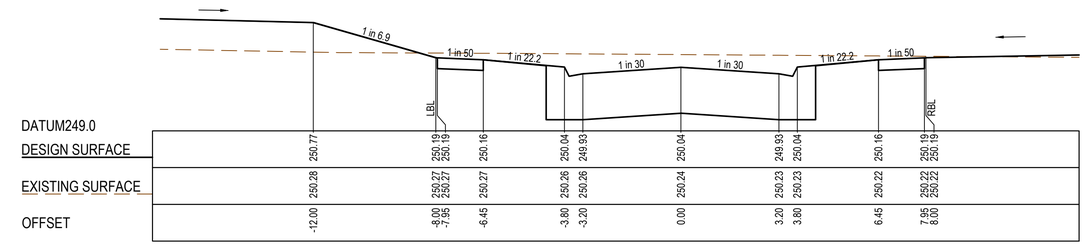


CH 176.78

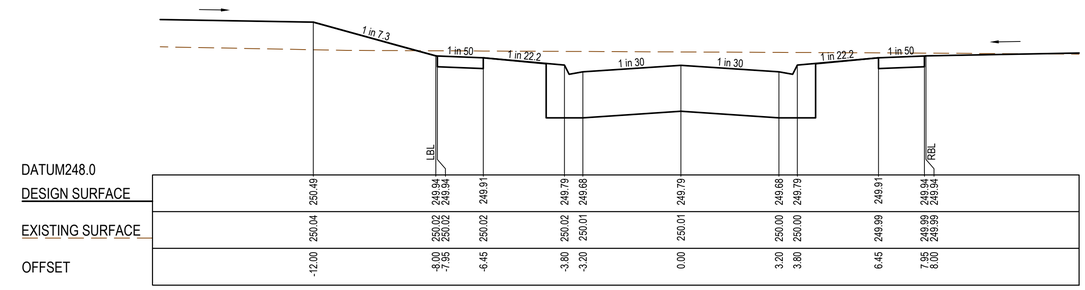


LIMIT OF WORK
CH 164.29

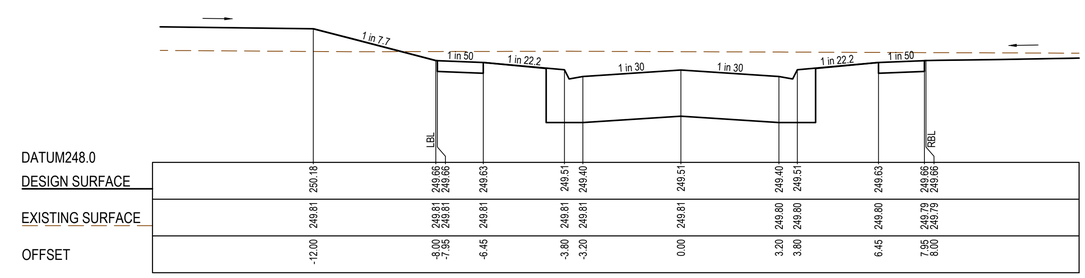
B



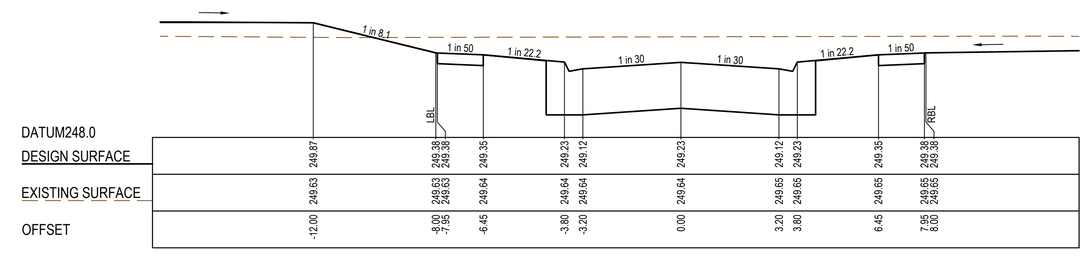
CH 281.13



CH 268.63



CH 254.63



CH 240.63

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	CROSS SECTIONS UPDATED	K.KANG	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

smec an S&I company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

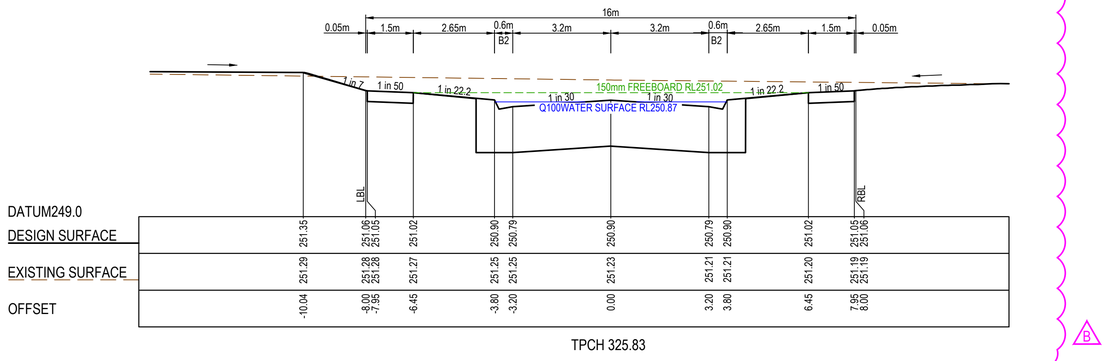
mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Cross Sections:Wicklow Crescent
Ch 164.29 - Ch 281.13

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-253	14 of 27	B

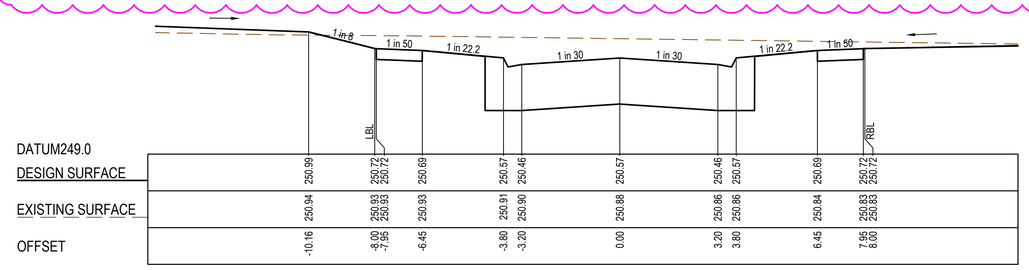
DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-253.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:29 PM

TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

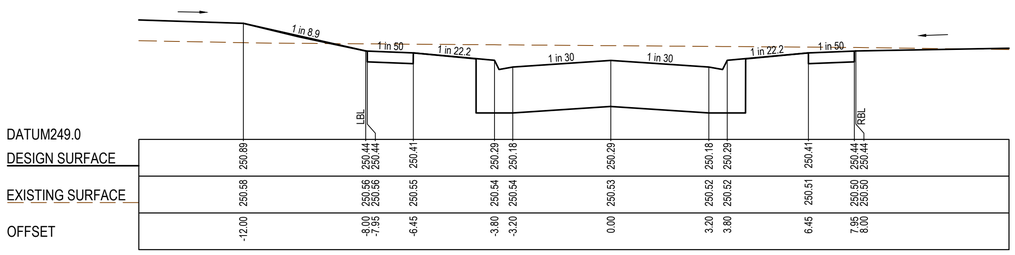


TPCH 325.83

B

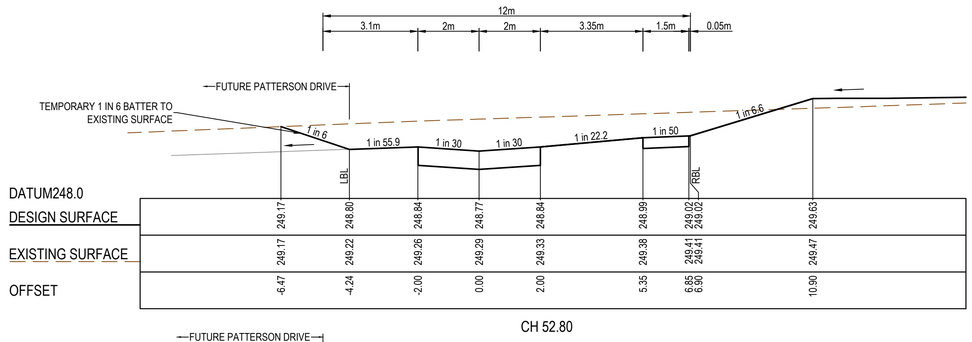


CH 307.63

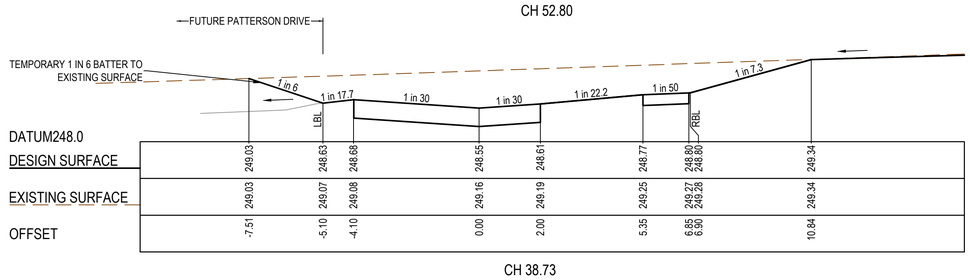


CH 293.63

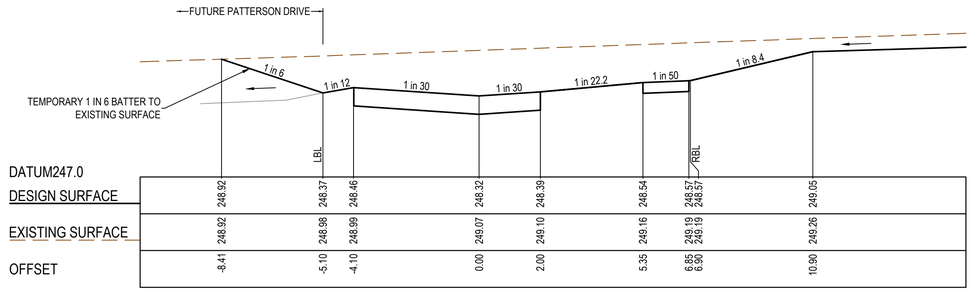
WICKLOW CRESCENT



CH 52.80



CH 38.73



CH 24.67

RUSH PLACE

B

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	CROSS SECTIONS UPDATED	K.KANG	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

smec an S.A. company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

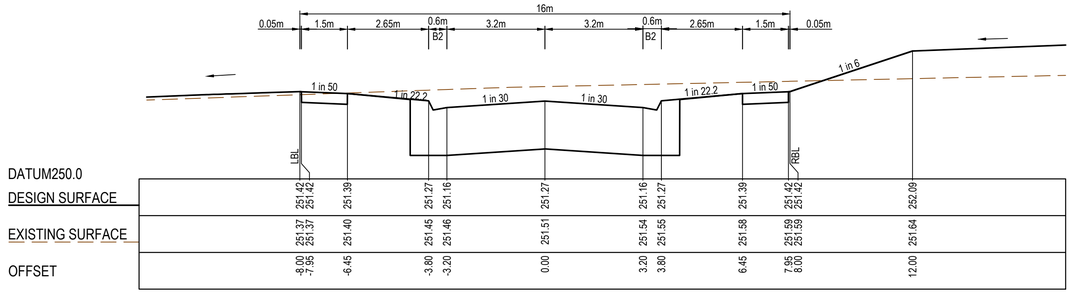
mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Cross Sections:Wicklow Crescent Ch307.6 -Ch325.83
Rush Place Ch 24.67 - Ch 52.80

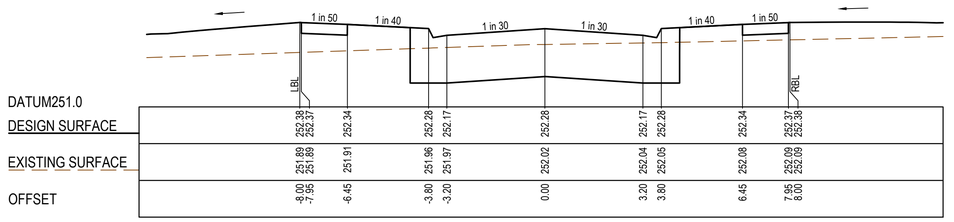
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-254	15 of 27	B

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-254.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:27 PM

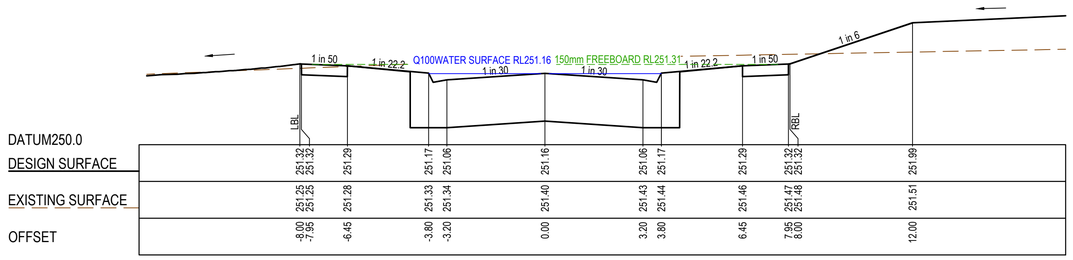
TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



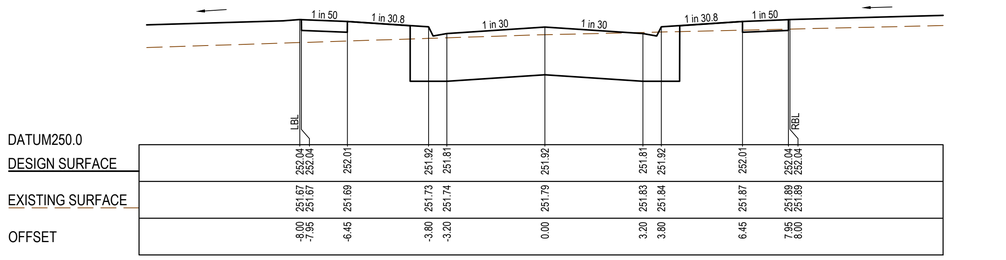
LTPCH 154.80



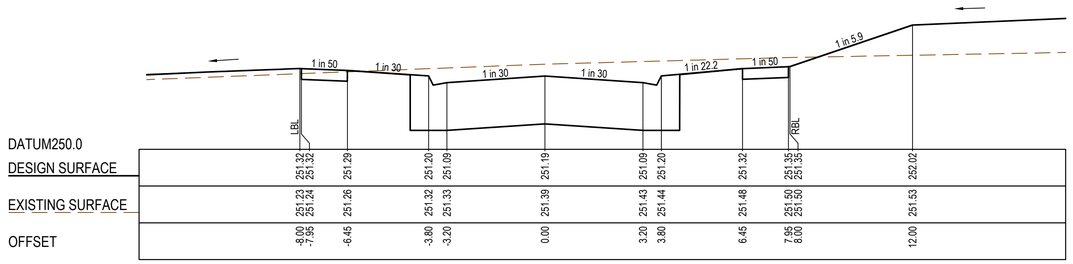
CH 208.00



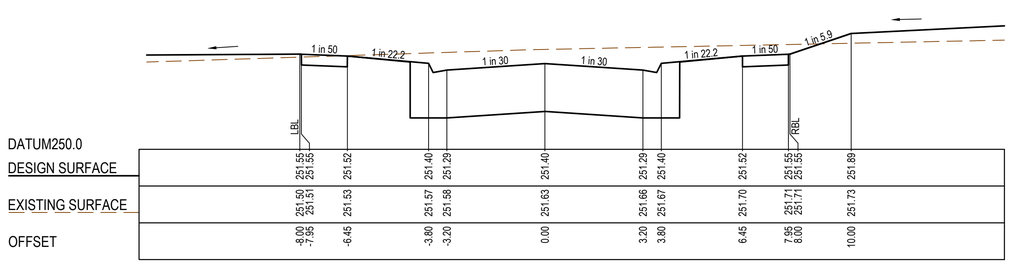
LTPCH 131.20



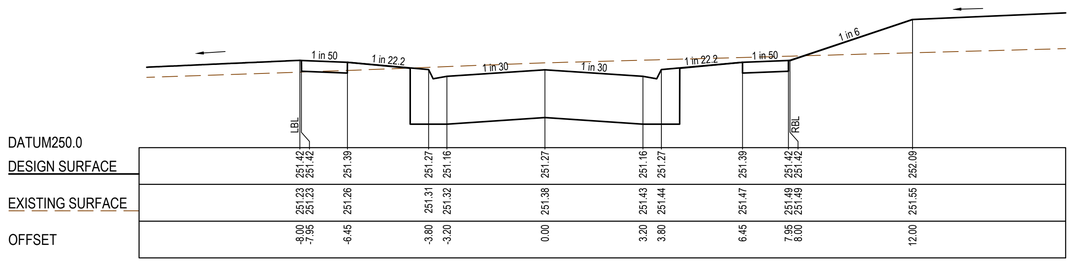
CH 195.00



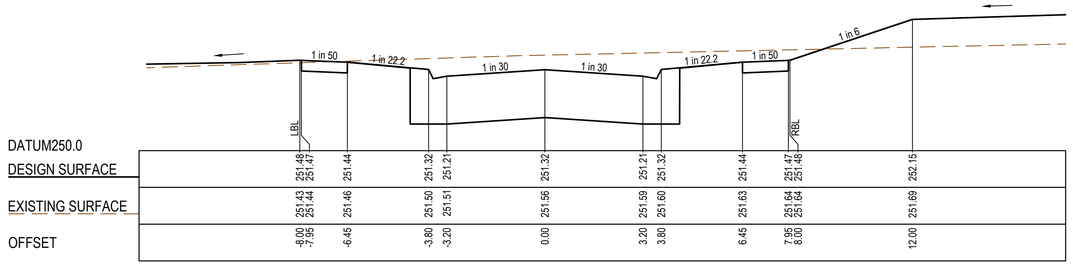
CH 121.50



CH 179.00



CH 110.00



CH 165.00

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

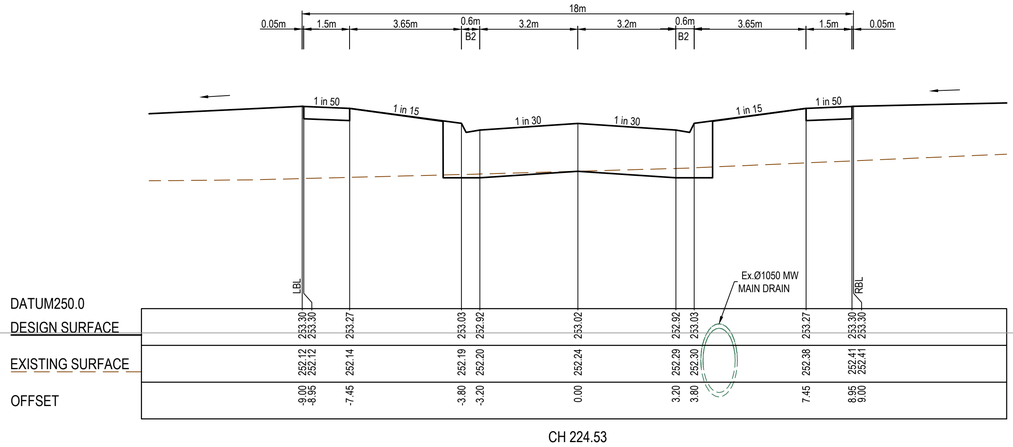
smec an S.A. company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

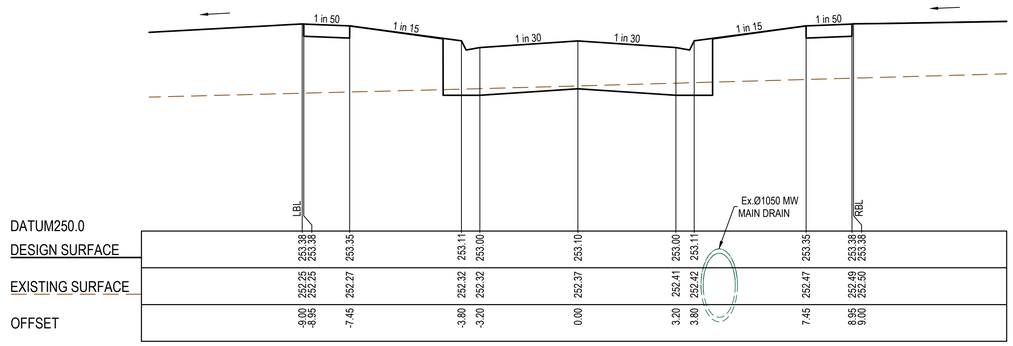
Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Cross Sections:United Way
Ch 110.00 - Ch 208.00

MELWAYS REF.	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-255	16 of 27	A

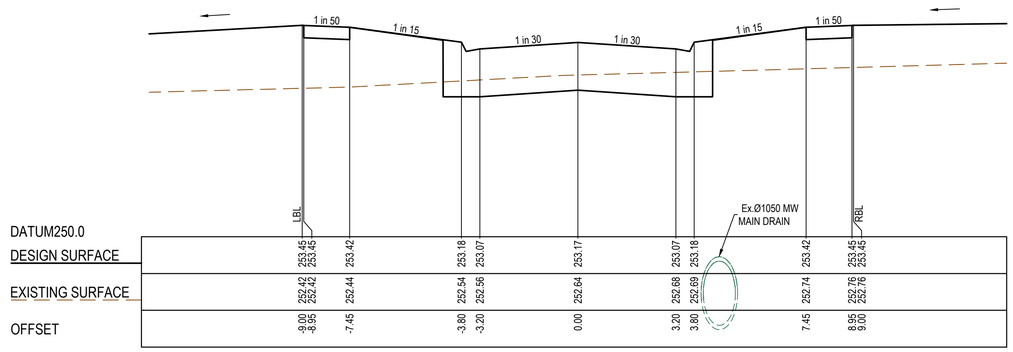
TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



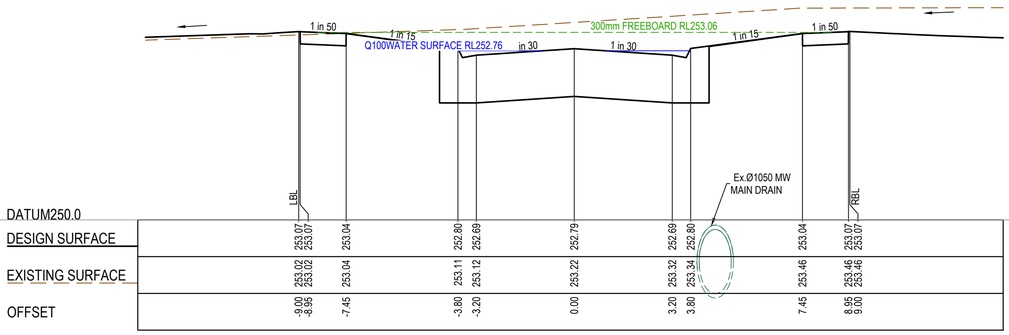
CH 224.53



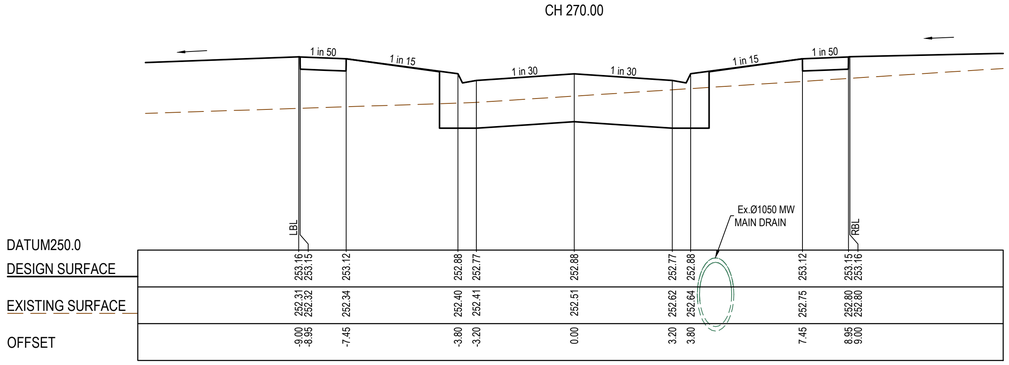
CH 208.53



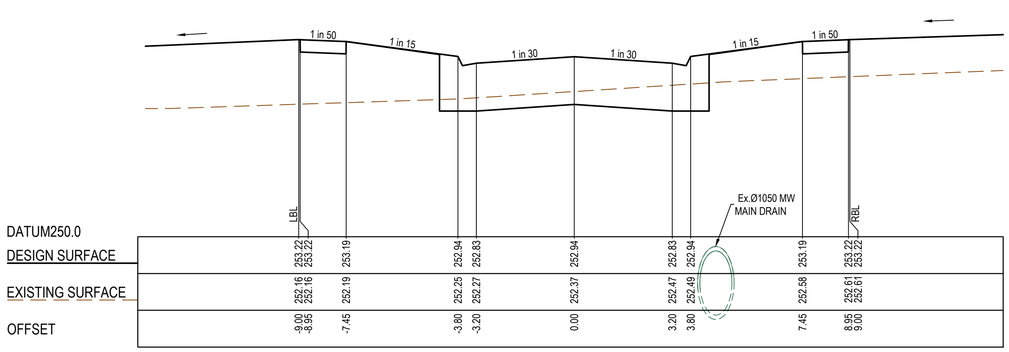
CH 194.53



CH 270.00



CH 253.53



CH 241.03

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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

PLAN OF SUB. NO. PS913459H
PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

smec an ASI company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

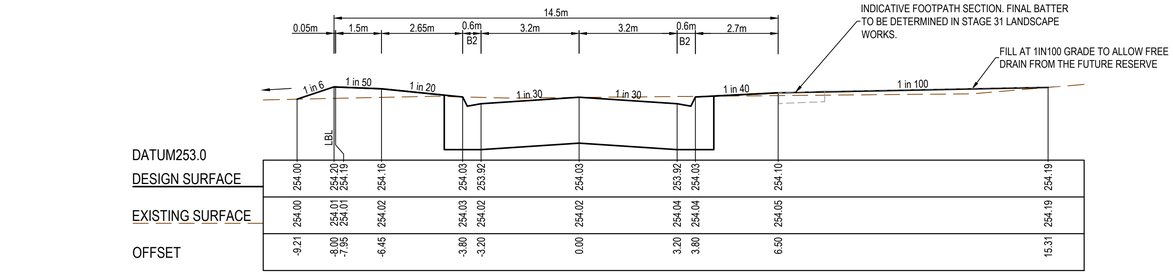
mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Cross Sections:Igneous Way
Ch 194.53 - Ch 270.00

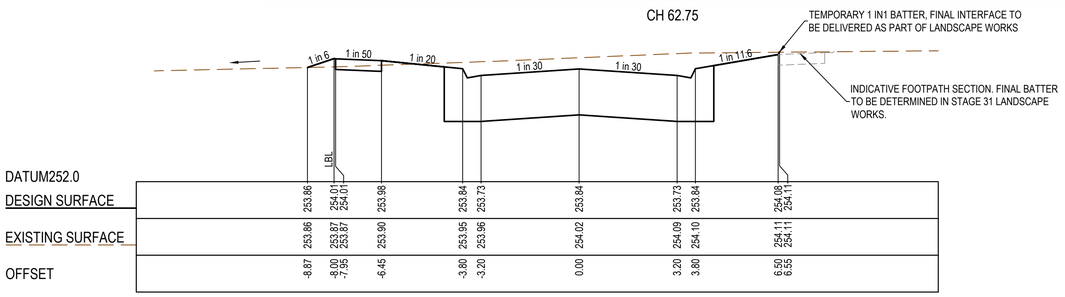
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-256	17 of 27	A

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-256.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:29 PM

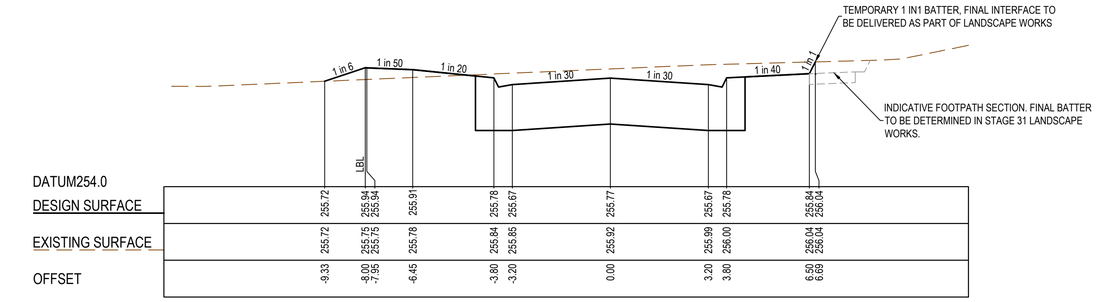
TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



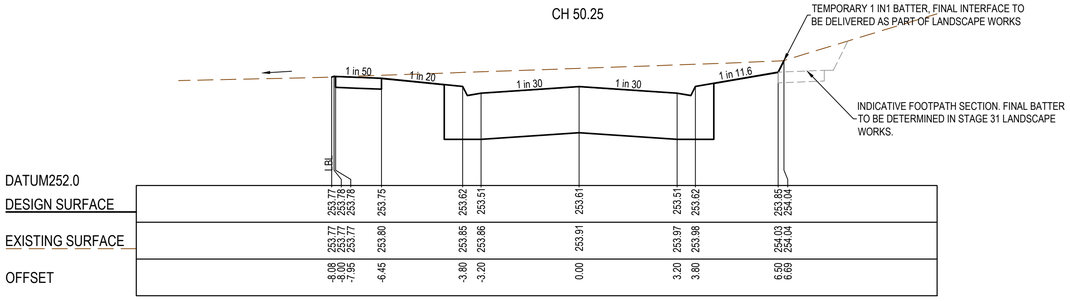
CH 62.75



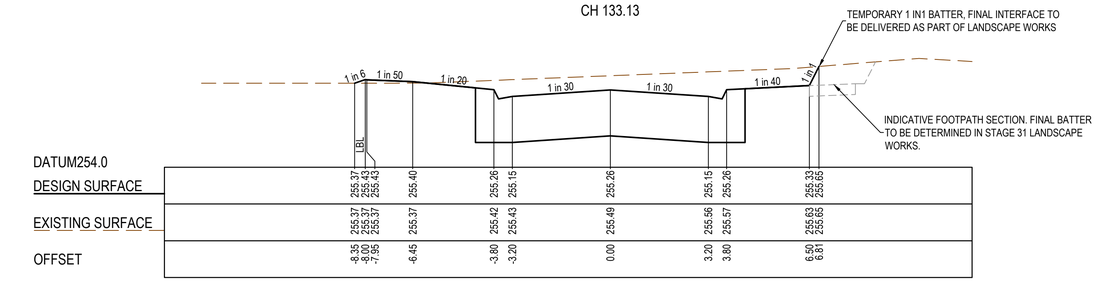
CH 50.25



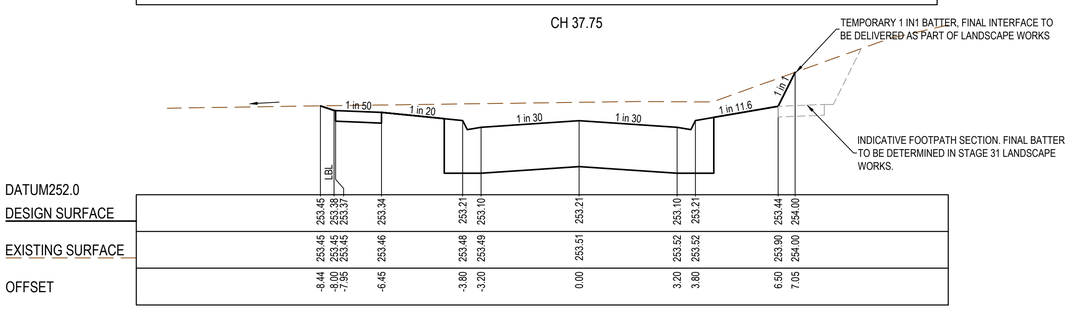
LIMIT OF WORK
CH 133.13



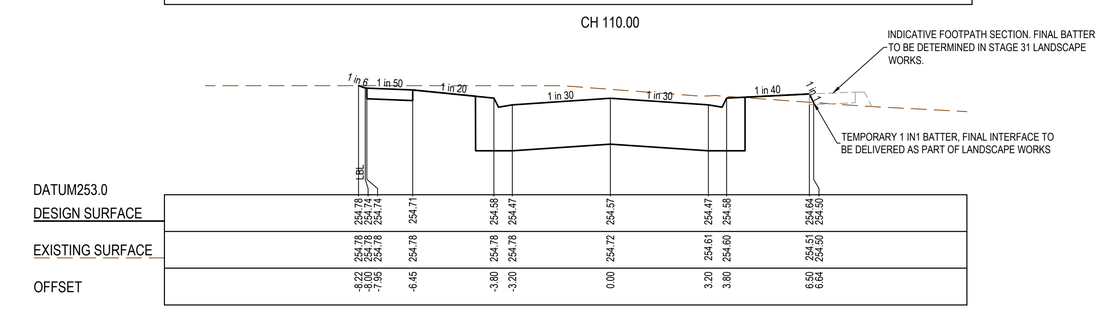
CH 37.75



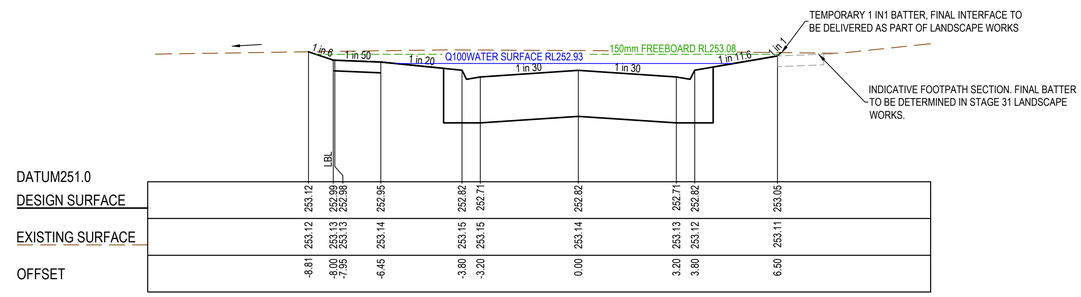
CH 110.00



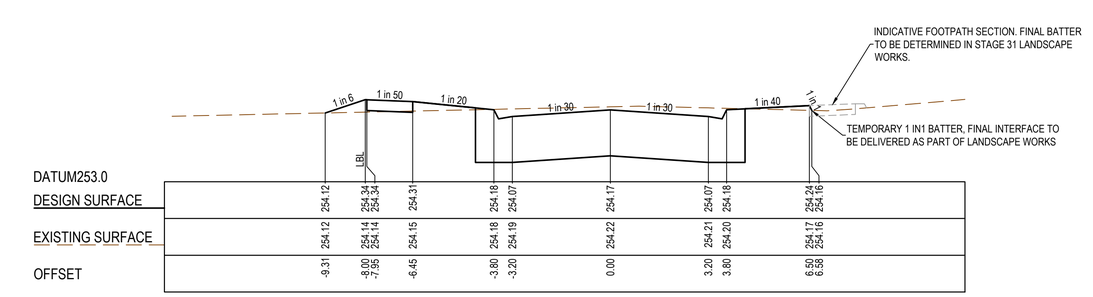
CH 25.25



CH 86.69



CH 15.50



CH 71.07

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	CROSS SECTIONS UPDATED	K.KANG	K.KANG	T.MOTET	A.BURROWS

Quality Management ISO 9001 Global-Mark.com.au® OHS Management AS/NZS 4801 Global-Mark.com.au® Environmental Management ISO 14001 Global-Mark.com.au®

PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

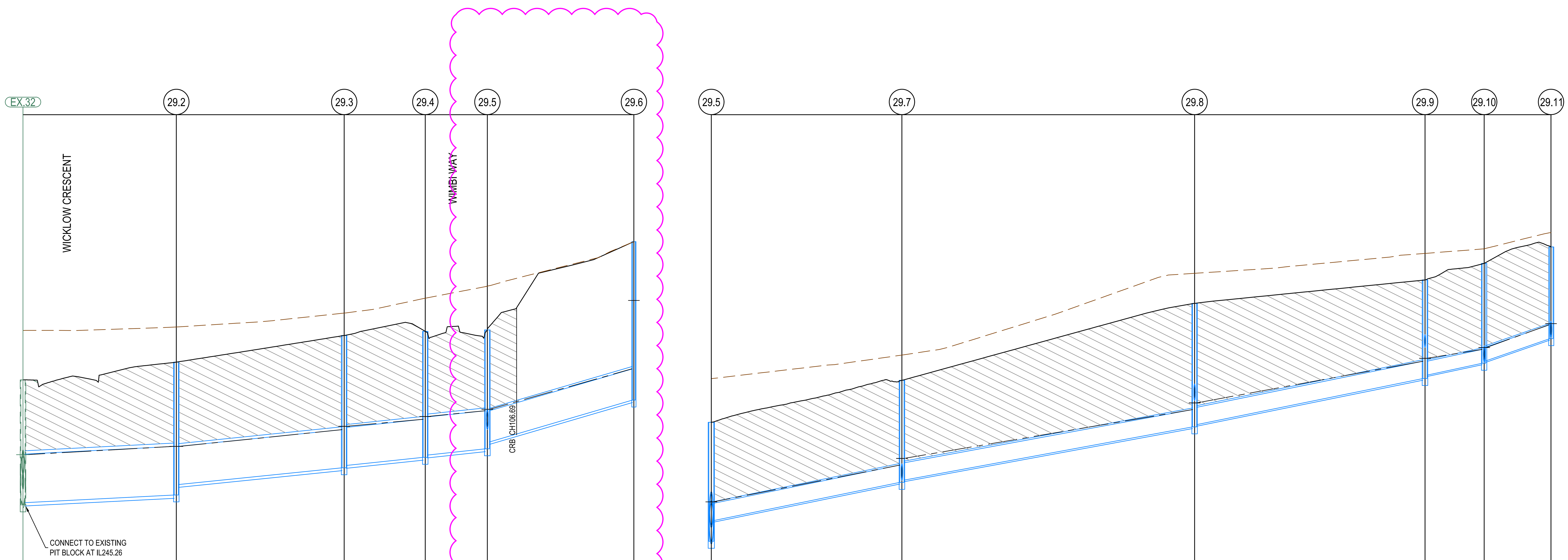
smec an SNC company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Cross Sections: Valleymount Circuit
Ch 25.25 - Ch 133.13

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-257	18 of 27	B

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



Section 1 – Pipe reaches (EX.32 to 29.6)

Reach	DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	NOMINAL PIPE SIZE (mm)	PIPE TYPE	GRADE	(Reach Length)
EX.32 – 29.2	1.207	1.932	2.23	1050Ø	RCP	1 in 200	(33.14)
29.2 – 29.3	1.210	1.436	2.69	825Ø	RCP	1 in 100	(36.27)
29.3 – 29.4	1.198	1.436	2.69	825Ø	RCP	1 in 100	(17.53)
29.4 – 29.5	1.198	1.436	2.69	825Ø	RCP	1 in 100	(13.42)
29.5 – 29.6	1.017	1.421	3.97	675Ø	RCP	1 in 35	(31.68)

DATUM 240.0

	EX.32	29.2	29.3	29.4	29.5	29.6
DEPTH TO INVERT	2.70 / 2.65	2.87 / 2.65	2.86 / 2.81	2.72 / 2.67	2.57 / 2.42	3.43
HYDRAULIC GRADE LINE	246.26 / 246.30	246.48	246.84 / 246.91	247.06 / 247.12	247.25 / 247.28	248.15 / 249.63
INVERT LEVEL	245.21 / 245.26	245.43 / 245.65	246.01 / 246.06	246.24 / 246.29	246.42 / 246.57	247.48
FINISHED SURFACE LEVELS	247.91	248.30	248.88	248.96	249.00	250.91
EXISTING SURFACE LEVEL	248.98	249.06	249.36	249.68	249.94	250.90
CHAINAGE	0.00	33.14	69.42	86.95	100.37	132.04

Section 2 – Pipe reaches (29.5 to 29.11)

Reach	DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	NOMINAL PIPE SIZE (mm)	PIPE TYPE	GRADE	(Reach Length)
29.5 – 29.7	0.193	0.248	2.25	375Ø	RCP	1 in 50	(41.20)
29.7 – 29.8	0.164	0.237	2.14	375Ø	RCP	1 in 55	(63.26)
29.8 – 29.9	0.125	0.248	2.25	375Ø	RCP	1 in 50	(49.80)
29.9 – 29.10	0.082	0.137	1.94	300Ø	RCP	1 in 50	(12.80)
29.10 – 29.11	0.046	0.177	2.5	300Ø	RCP	1 in 30	(14.43)

DATUM 242.0

	29.5	29.7	29.8	29.9	29.10	29.11
DEPTH TO INVERT	2.57 / 2.12	2.21 / 2.16	2.67 / 2.62	2.13 / 2.06	2.16 / 2.11	1.99
HYDRAULIC GRADE LINE	247.25 / 247.28	248.07 / 248.22	249.27 / 249.42	250.32 / 250.38	250.57 / 250.62	251.11 / 251.13
INVERT LEVEL	246.42 / 246.87	247.70 / 247.75	248.90 / 248.95	249.94 / 250.02	250.27 / 250.32	250.81
FINISHED SURFACE LEVELS	249.00	249.91	251.57	252.08	252.43	252.79
EXISTING SURFACE LEVEL	249.94	250.45	252.22	252.65	252.75	253.10
CHAINAGE	0.00	41.20	104.46	154.26	167.06	181.49

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	DRAINAGE LONG SECTIONS UPDATED	K.KANG	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H
PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

smec
an SJ company
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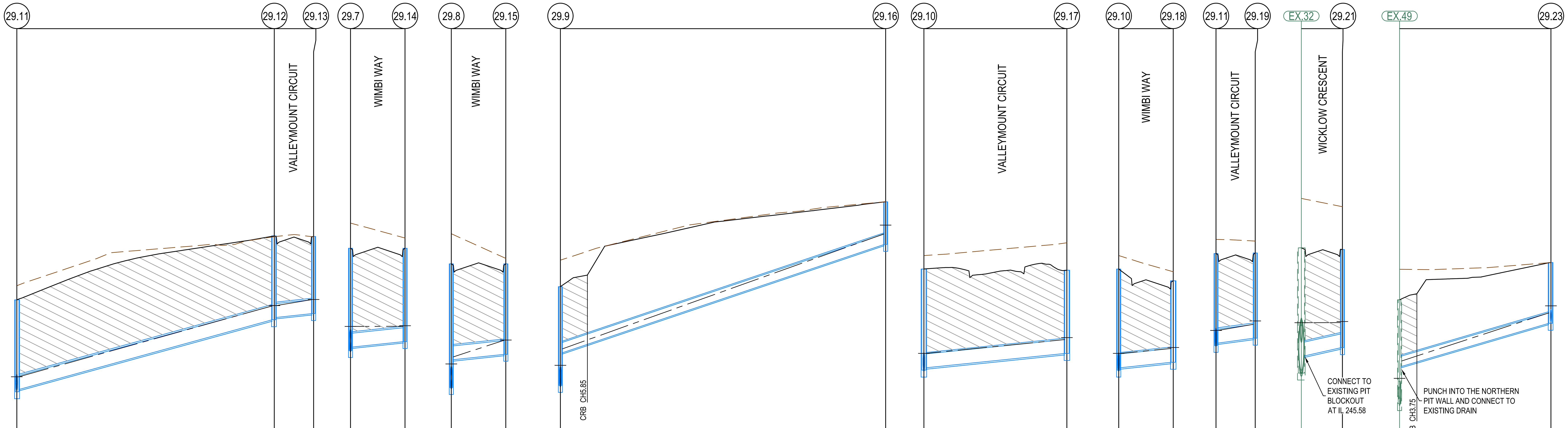
mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-301	19 of 27	B

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



Reach	DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	NOMINAL PIPE SIZE (mm)	PIPE TYPE	GRADE	DATUM	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE	(Reach Length)
29.11 – 29.12	0.016	0.159	2.25	300Ø	RCP	1 in 37	245.0	1.99, 1.94 / 1.81	251.11, 251.13 / 252.66	250.81, 250.86 / 252.36	252.79 / 254.17	253.10 / 254.16	181.49 / 237.19	(55.70)
29.12 – 29.13	0.006	0.097	1.37	300Ø	RCP	1 in 100		1.76 / 1.67	252.67 / 252.80	252.41 / 252.50	254.16	254.15	245.69	(8.50)
29.7 – 29.14	0.009	0.097	1.37	300Ø	RCP	1 in 100	241.0	2.21, 2.13 / 2.02	248.07, 248.22 / 248.22, 248.23	247.70, 247.77 / 247.89	249.91 / 249.91	250.45 / 250.13	0.00 / 11.80	(11.80)
29.8 – 29.15	0.007	0.097	1.37	300Ø	RCP	1 in 100	243.0	2.67, 2.07 / 1.95	249.27, 249.41, 249.56 / 249.92, 249.92	248.90, 249.50 / 249.62	251.57 / 251.57	252.22 / 251.69	0.00 / 11.80	(11.80)
29.9 – 29.16	0.031	0.082	2.06	225Ø	RCP	1 in 30	244.0	2.13, 1.43 / 0.92	250.32, 250.38, 250.73 / 253.21, 253.41	249.94, 250.64 / 252.99	252.08 / 253.91	252.65 / 253.91	0.00 / 70.35	(70.35)
29.10 – 29.17	0.023	0.097	1.37	300Ø	RCP	1 in 100	244.0	2.18, 2.13 / 1.80	250.57, 250.64 / 250.93, 250.98	250.27, 250.32 / 250.63	252.46 / 252.43	252.75 / 253.02	0.00 / 30.93	(30.93)
29.10 – 29.18	0.013	0.097	1.37	300Ø	RCP	1 in 100	244.0	2.18, 2.13 / 1.76	250.57, 250.64 / 250.74, 250.76	250.27, 250.32 / 250.44	252.46 / 252.20	252.75 / 252.40	0.00 / 11.80	(11.80)
29.11 – 29.19	0.027	0.108	1.53	300Ø	RCP	1 in 80	244.0	1.99, 1.94 / 1.84	251.11, 251.13 / 251.26, 251.33	250.81, 250.86 / 250.96	252.79 / 252.80	253.10 / 253.06	0.00 / 8.50	(8.50)
EX.32 – 29.21	0.013	0.137	1.94	300Ø	RCP	1 in 50	239.0	2.70, 2.33 / 2.12	246.26, 246.30 / 246.30, 246.32	245.21, 245.58 / 245.76	247.91 / 247.88	248.98 / 248.80	0.00 / 8.88	(8.88)
EX.49 – 29.23	0.048	0.076	1.91	225Ø	RCP	1 in 35	241.0	2.24, 1.44 / 1.31	247.07, 247.10, 247.47 / 248.51, 248.66	246.55, 247.35 / 248.29	248.79 / 249.60	249.45 / 249.60	0.00 / 32.75	(32.75)

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO.
PS913459H
PERMIT REF. NO.
719067

SUBJECT TO APPROVAL

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

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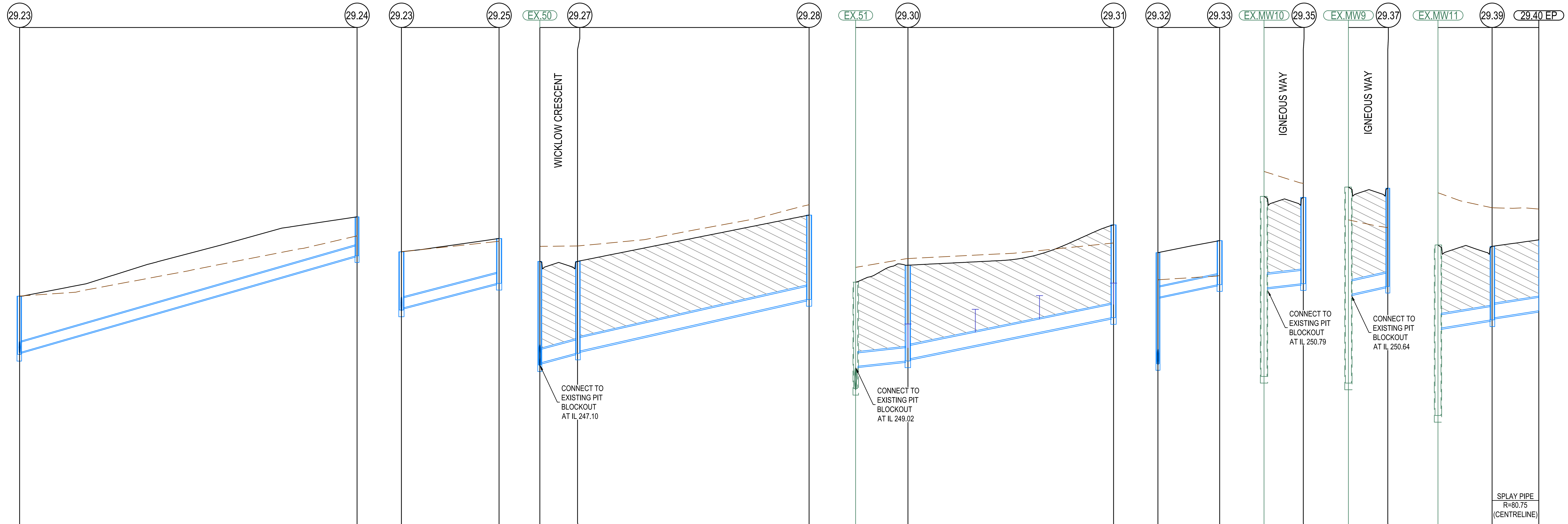
mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 2

MELWAYS REF: 367 G11
PROJECT / DRAWING No.: 1700E-029-302
SHEET No.: 20 of 27
REVISION: A

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-302.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:46 PM



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

Reach	DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	NOMINAL PIPE SIZE (mm)	PIPE TYPE	GRADE	DATUM	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE	(Reach Length)
29.23 – 29.24	0.049	0.076	1.91	225Ø	RCP	1 in 35	242.0	1.31, 1.26 / 0.88	248.51, 248.66, 248.63 / 250.73, 251.06	248.29, 248.34 / 250.51	249.60 / 251.39	249.60 / 250.96	32.75 / 108.75	(76.00)
29.23 – 29.25	0.001	0.071	1.79	225Ø	RCP	1 in 40	241.0	1.31, 1.26 / 1.01	248.51, 248.66, 248.63 / 249.11	248.29, 248.34 / 248.89	249.60 / 249.90	249.60 / 249.84	0.00 / 22.00	(22.00)
EX.50 – 29.27	0.041	0.153	2.16	300Ø	RCP	1 in 40	241.0	2.33, 2.28 / 2.07	247.48, 247.63 / 247.64	247.05, 247.10 / 247.31	249.38 / 249.38	249.72 / 249.73	0.00 / 8.50	(8.50)
29.27 – 29.28	0.026	0.144	2.04	300Ø	RCP	1 in 45		2.02 / 1.90	247.67 / 248.82, 248.86	247.36 / 248.52	250.43	250.66	60.65	(52.15)
EX.51 – 29.30	0.025	0.097	1.37	300Ø	RCP	1 in 100	243.0	2.39, 1.89 / 2.16	248.90, 249.24, 249.18 / 249.44	248.52, 249.02 / 249.14	250.91 / 251.30	251.25 / 251.44	0.00 / 11.79	(11.79)
29.30 – 29.31	0.015	0.137	1.94	300Ø	RCP	1 in 50		2.11 / 2.09	249.45 / 250.41, 250.43	249.19 / 250.11	252.20	251.80	58.10	(46.31)
29.32 – 29.33	0.018	0.064	1.6	225Ø	RCP	1 in 50	244.0	2.50, 1.00 / 0.99	250.57, 250.59, 251.65 / 252.08, 252.14	250.08, 251.58 / 251.86	252.58 / 252.85	251.97 / 252.06	0.00 / 13.90	(13.90)
EX.MW10 – 29.35	0.005	0.097	1.37	300Ø	RCP	1 in 100	243.0	4.06, 2.06 / 1.95	250.84 / 251.18	248.79, 250.79 / 250.88	252.85 / 252.82	253.41 / 253.14	0.00 / 8.85	(8.85)
EX.MW9 – 29.37	0.007	0.137	1.94	300Ø	RCP	1 in 50	243.0	4.42, 2.42 / 2.21	250.69 / 251.12, 251.13	248.64, 250.64 / 250.82	253.06 / 253.03	252.32 / 252.14	0.00 / 8.88	(8.88)
EX.MW11 – 29.39	0.035	0.118	1.68	300Ø	RCP	1 in 66.7	244.0	3.84, 1.87 / 1.66	250.99 / 251.36	248.91, 250.88 / 251.06	252.75 / 252.72	253.93 / 253.59	0.00 / 12.18	(12.18)
29.39 – 29.40 EP	0.019	0.118	1.68	300Ø	RCP	1 in 66.7		1.61 / 1.60	251.40 / 251.57	251.11 / 251.27	252.87	253.56	22.71	(10.53)

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

PLAN OF SUB. NO. PS913459H
PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

smec
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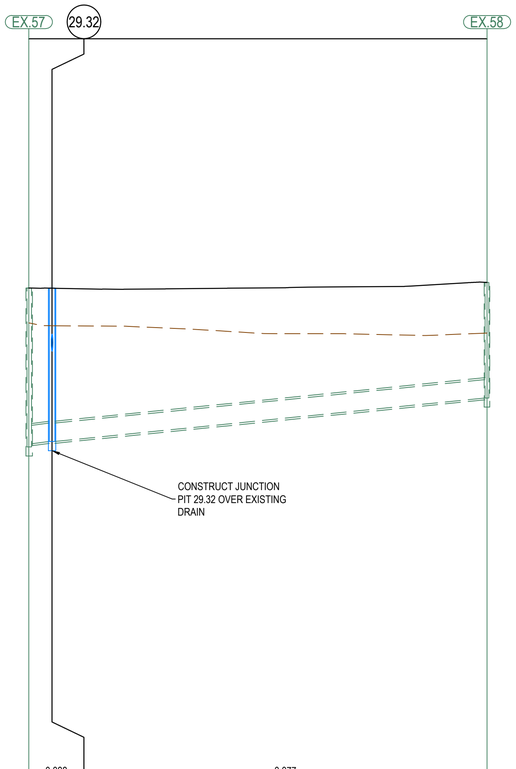
mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 3

MELWAYS REF 367 G11 | PROJECT / DRAWING No. 1700E-029-303 | SHEET No. 21 of 27 | REVISION A

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



DESIGN FLOW (m3/s)		0.088	0.077	
CAPACITY (m3/s)		0.097	0.097	
AT GRADE VELOCITY (m/s)		1.37	1.37	
NOMINAL PIPE SIZE (mm)		300Ø	300Ø	
PIPE TYPE		RCP	RCP	
GRADE		1 in 100	1 in 100	
DATUM				
DEPTH TO INVERT	2.59	2.54 / 2.50	2.50	1.89 / 1.84
HYDRAULIC GRADE LINE	250.36	250.58 / 250.54	250.57	250.59 / 251.09 / 251.24
INVERT LEVEL	249.99	250.04	250.08	250.08 / 250.79 / 250.84
FINISHED SURFACE LEVELS	252.58		252.58	252.67
EXISTING SURFACE LEVEL	252.01		251.97	251.85
CHAINAGE	84.55		88.35	159.35
(Reach Length)		(3.80)	(71.00)	

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

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

SMEC
Member of the Surbana Jurong Group
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mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 4

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-304	22 of 27	A

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-304.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:49 PM

PIT SCHEDULE

PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
29.2	GRATED PIT	900	1350	825	245.65	1050	245.43	248.30	2.87	EDCM 607	HAUNCHED TO 600x900 PIT COVER. HEAVEYDUTY BIKE SAFE GRATE REFER TO DWG 1700E-029-421 FOR DETAILS
29.3	GRATED PIT	1200	900	825	246.06	825	246.01	248.88	2.86	EDCM 607	HAUNCHED TO 600x900 PIT COVER. HEAVEYDUTY BIKE SAFE GRATE REFER TO DWG 1700E-029-421 FOR DETAILS
29.4	DOUBLE GRATED ENTRY PIT	900	1200	825	246.29	825	246.24	248.96	2.73	EDCM 602 & 607	HAUNCHED TO 600x900 PIT COVER. GRATE TO BE BUILT AS PART OF PATTERSON DRIVE SECTION 3 WORKS
29.5	DOUBLE GRATED ENTRY PIT	900	1200	675 375	246.77 246.87	825	246.42	249.00	2.57	EDCM 602 & 607	HAUNCHED TO 600x900 PIT COVER. GRATE TO BE BUILT AS PART OF PATTERSON DRIVE SECTION 3 WORKS
29.6	JUNCTION PIT	600	900			675	247.68	250.91	3.23	EDCM 605	HAUNCHED TO 600x900 PIT COVER
29.7	GRATED ENTRY PIT	600	900	375 300	247.75 247.77	375	247.70	249.91	2.21	EDCM 601 & 605	
29.8	GRATED ENTRY PIT	600	900	375 300	248.95 249.50	375	248.90	251.57	2.67	EDCM 601 & 605	
29.9	JUNCTION PIT	600	900	300 225	250.02 250.64	375	249.94	252.08	2.13	EDCM 605	
29.10	JUNCTION PIT	600	900	300 300 300	250.32 250.32 250.32	300	250.27	252.43	2.16	EDCM 605	
29.11	GRATED ENTRY PIT	600	900	300 300	250.86 250.86	300	250.81	252.79	1.99	EDCM 601 & 605	
29.12	GRATED ENTRY PIT	600	900	300	252.41	300	252.36	254.17	1.81	EDCM 601 & 605	
29.13	GRATED ENTRY PIT	600	900			300	252.50	254.16	1.67	EDCM 601 & 605	
29.14	GRATED ENTRY PIT	600	900			300	247.89	249.91	2.02	EDCM 601 & 605	
29.15	GRATED ENTRY PIT	600	900			300	249.62	251.57	1.95	EDCM 601 & 605	
29.16	JUNCTION PIT	600	900			225	252.99	253.91	0.92	EDCM 605	
29.17	GRATED ENTRY PIT	600	900			300	250.63	252.43	1.80	EDCM 601 & 605	
29.18	GRATED ENTRY PIT	600	900			300	250.44	252.20	1.76	EDCM 601 & 605	
29.19	GRATED ENTRY PIT	600	900			300	250.96	252.80	1.84	EDCM 601 & 605	
29.21	DOUBLE GRATED ENTRY PIT	600	900			300	245.76	247.88	2.12	EDCM 602 & 605	CONNECT TO EXISTING BLOCKOUT
29.23	JUNCTION PIT	600	900	225 225	248.34 248.34	225	248.29	249.60	1.31	EDCM 605	SEAL THE EXISTING BLOCKOUT
29.24	JUNCTION PIT	600	900			225	250.51	251.39	0.88	EDCM 605	
29.25	JUNCTION PIT	600	900			225	248.89	249.90	1.01	EDCM 605	
Ex.50	GRATED ENTRY PIT	-	-	300 375	247.13 247.10	375	247.05	249.38	2.33	EDCM 601	CONVERT PIT TO GSEP AND MATCH COVER TO KERB LEVEL
29.27	GRATED ENTRY PIT	600	900	300	247.36	300	247.31	249.38	2.07	EDCM 601 & 605	CONNECT TO EXISTING PIT
29.28	JUNCTION PIT	600	900			300	248.52	250.43	1.90	EDCM 605	
29.30	GRATED ENTRY PIT	600	900	300	249.19	300	249.14	251.30	2.16	EDCM 601 & 605	CONNECT TO EXISTING BLOCKOUT
29.31	JUNCTION PIT	600	900			300	250.11	252.20	2.09	EDCM 605	
29.32	JUNCTION PIT	600	900	225 300	251.58 250.08	300	250.08	252.58	2.50	EDCM 605	CONSTRUCT PIT OVER EXISTING DRAIN
29.33	JUNCTION PIT	600	900			225	251.86	252.85	0.99	EDCM 605	
Ex.MW10	Ex PIT	-	-	300	250.79			252.85	0.00	EDCM 601	CONVERT PIT TO GSEP AND MATCH COVER TO KERB LEVEL
29.35	GRATED ENTRY PIT	600	900			300	250.88	252.82	1.95	EDCM 601 & 605	CONNECT TO EXISTING BLOCKOUT
Ex.MW9	Ex PIT	-	-	300	250.64			253.06	0.00	EDCM 601	CONVERT PIT TO GSEP AND MATCH COVER TO KERB LEVEL. PROVIDE HEAVY DUTY COVER.
29.37	GRATED ENTRY PIT	600	900			300	250.82	253.03	2.21	EDCM 601 & 605	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
Ex.MW11	Ex PIT	-	-	300	250.88			252.75	0.00	EDCM 601	CONVERT PIT TO GSEP AND MATCH COVER TO KERB LEVEL
29.39	GRATED ENTRY PIT	600	900	300	251.11	300	251.06	252.72	1.66		
Ex.32	DOUBLE GRATED ENTRY PIT	-	-	1050 300 450	245.26 245.58 245.91	1050	245.21	247.92	2.71	EDCM 602	CONVERT PIT TO GSEP AND MATCH COVER TO KERB LEVEL
Ex.47	GRATED ENTRY PIT	-	-	450	246.11	450	246.06	248.31	2.25	EDCM 601	CONVERT PIT TO GSEP AND MATCH COVER TO KERB LEVEL
Ex.48	GRATED ENTRY PIT	-	-	450	246.26	450	246.21	248.31	2.10	EDCM 601	CONVERT PIT TO GSEP AND MATCH COVER TO KERB LEVEL
Ex.51	GRATED ENTRY PIT	-	-	300 375	249.02 248.57	375	248.52	250.92	2.40	EDCM 601	CONVERT PIT TO GSEP AND MATCH COVER TO KERB LEVEL
Ex.52	GRATED ENTRY PIT	-	-	375	248.71	375	248.66	250.92	2.26	EDCM 601	CONVERT PIT TO GSEP AND MATCH COVER TO KERB LEVEL
Ex.53	DOUBLE GRATED ENTRY PIT	-	-	375	248.87	375	248.82	251.19	2.37	EDCM 602	CONVERT PIT TO DGSEP AND MATCH COVER TO KERB LEVEL
Ex.54	DOUBLE GRATED ENTRY PIT	-	-	300 375	249.01 249.01	375	248.96	251.19	2.23	EDCM 602	CONVERT PIT TO DGSEP AND MATCH COVER TO KERB LEVEL
Ex.55	GRATED ENTRY PIT	-	-	375	249.31	375	249.26	251.30	2.04	EDCM 601	CONVERT PIT TO DGSEP AND MATCH COVER TO KERB LEVEL
29.40EP	ENDPIPE			300	251.27	300	251.27	252.87	1.60		ENDPIPE FOR FUTURE CONNECTION

B

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	PIT SCHEDULE UPDATED	K.KANG	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H

PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

SCALE AS SHOWN AT A1

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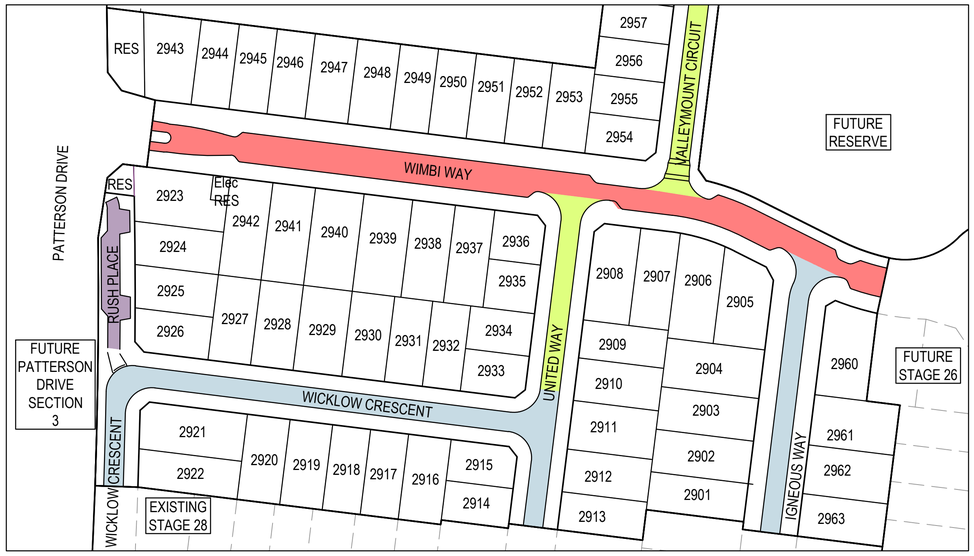
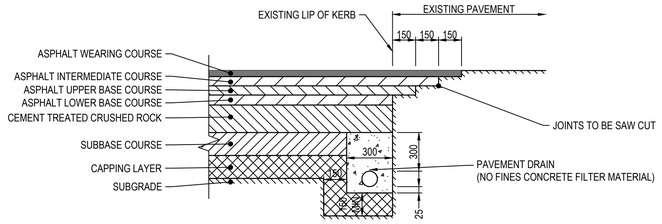
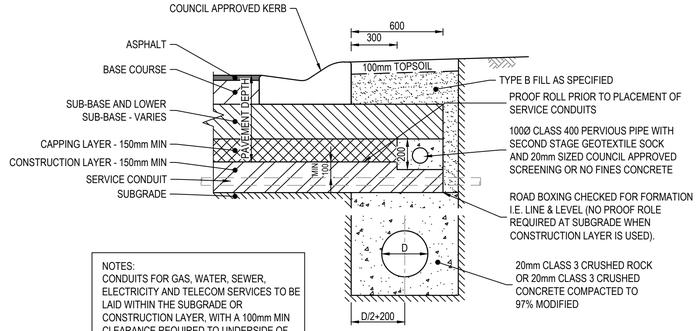
Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Pit Schedule

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-351	23 of 27	B





LONGITUDINAL PAVEMENT JOINT DETAIL
NOT TO SCALE



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

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

780mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A ASPHALT WEARING COURSE	30	SIZE 10 TYPE L ASPHALT (CLASS 320 BINDER)
B ASPHALT BASE COURSE	30	SIZE 10 TYPE N ASPHALT (CLASS 320 BINDER)
C SAMII SEAL	6.7	SIZE 10 S18RF
D PRIME	YES	
E BASE COURSE	130	SIZE 20 CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289,5.2.1
F UPPER SUBBASE	110	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
G LOWER SUBBASE	180	CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
H CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10^{-}m/s COMPACTED TO 98% MDD (STANDARD)
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10^{-}m/s COMPACTED TO 98% MDD (STANDARD)
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

ROAD PAVEMENT COMPOSITION - ACCESS PLACE TYPE 2
(WICKLOW CRESCENT, UNITED WAY & IGNEOUS WAY)

880mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A ASPHALT WEARING COURSE	40	SIZE 14 TYPE N ASPHALT (CLASS 320 BINDER)
B ASPHALT BASE COURSE	40	SIZE 14 TYPE HP ASPHALT (CLASS A10E BINDER)
C SAMII SEAL	6.7	SIZE 10 S18RF
D PRIME	YES	
E BASE COURSE	110	SIZE 20 CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289,5.2.1
F UPPER SUBBASE	190	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
G LOWER SUBBASE	200	CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
H CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10^{-}m/s COMPACTED TO 98% MDD (STANDARD)
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10^{-}m/s COMPACTED TO 98% MDD (STANDARD)
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

ROAD PAVEMENT COMPOSITION - ACCESS STREET LEVEL2 TYPE 3
(UNITED WAY & VALLEYMOUNT CIRCUIT)

300mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
CONCRETE	200	N32 CONCRETE WITH SL82 MESH TOP & BOTTOM 50 COVER. MESH TO HAVE 50 COVER TO ALL EDGES
SUB BASE	100	CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE MECHANICALLY COMPACTED

LANEWAY COMPOSITION - EDCM503
(RUSH PLACE)

B

690mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	40	SIZE 14 TYPE H ASPHALT (CLASS 320 BINDER)
B INTERMEDIATE COURSE	75	SIZE 20 TYPE SI ASPHALT (CLASS 320 BINDER)
C BASE COURSE	75	SIZE 20 TYPE SI ASPHALT (CLASS 320 BINDER)
D PRIME	-	
E BASE COURSE	100	SIZE 20 NOMINAL SIZE CLASS 3 CEMENT TREATED CRUSHED ROCK, COMPACTED TO A AT LEAST 98% MDD (MODIFIED DRY DENSITY RATIO) AT A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500 MPa. MINIMUM DESIGN CEMENTITIOUS BINDER CONTENT OF 3% BY MASS AS PER VICROADS SPECIFICATION 8015, TABLE 815.101.
F UPPER SUBBASE	100	CLASS 4 CRUSHED ROCK OR CLASS CC4 CRUSHED CONCRETE (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 95% (MODIFIED) AS1289.5.2.1
H CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10^{-}m/s COMPACTED TO 98% MDD (STANDARD)
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10^{-}m/s COMPACTED TO 98% MDD (STANDARD)
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

ROAD PAVEMENT COMPOSITION - CONNECTOR STREET TYPE 4
(WIMBI WAY)

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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
B	26.06.26	LANEWAY PAVEMENT PROFILE UPDATED	K.KANG	K.KANG	T.MOTET	A.BURROWS

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

PLAN OF SUB. NO. PS913459H
PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

0 10 20 40
Scale 1:1000
SCALE AS SHOWN AT A1

N

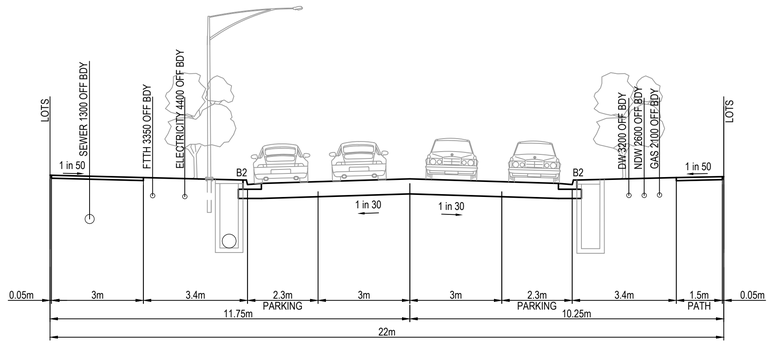
smec an SJ company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

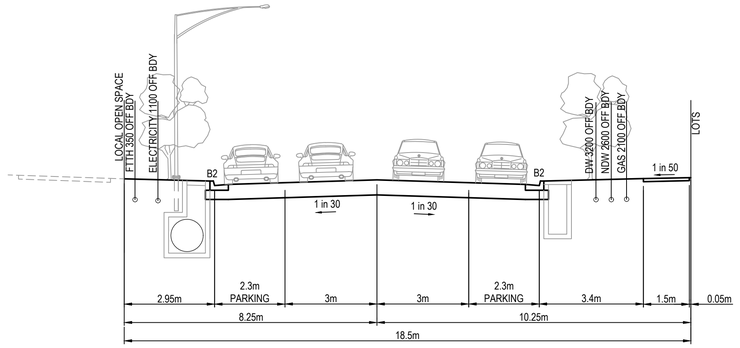
Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Pavement Details

MELWAYS REF 367 G11 | PROJECT / DRAWING No. 1700E-029-411 | SHEET No. 24 of 27 | REVISION B

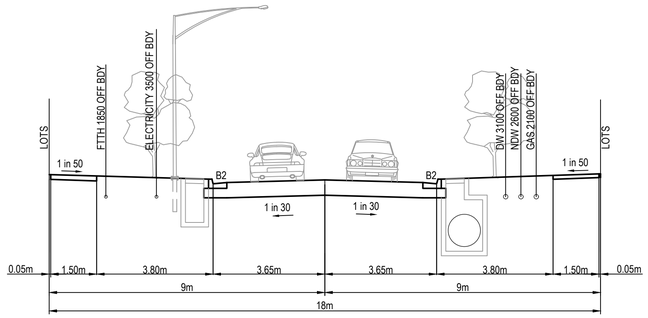
DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-411.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:56 PM



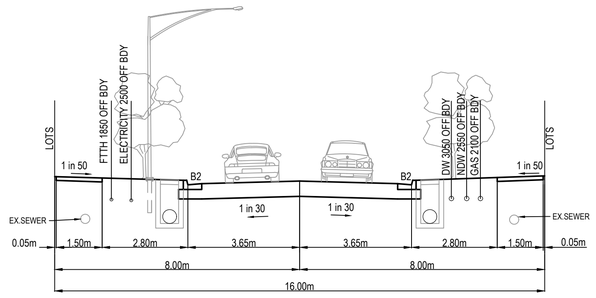
22m ACCESS STREET
WIMBI WAY



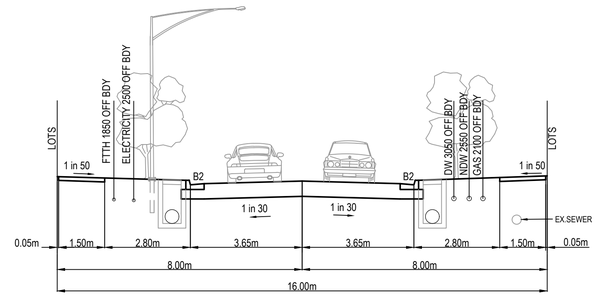
18.5m ACCESS STREET
WIMBI WAY (ADJACENT OPEN SPACE)



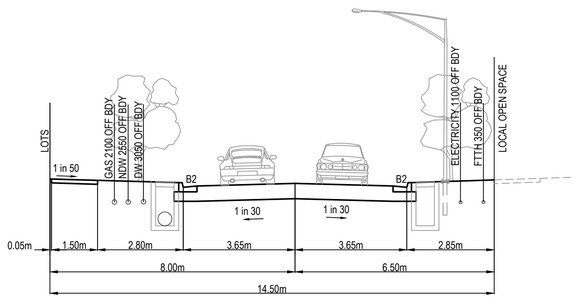
18m ACCESS STREET
IGNEOUS WAY



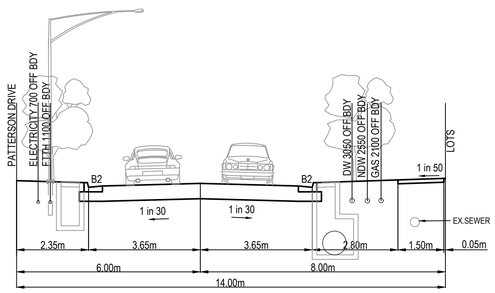
16m ACCESS STREET
WICKLOW CRESCENT (LOTS 2927 TO 2933)



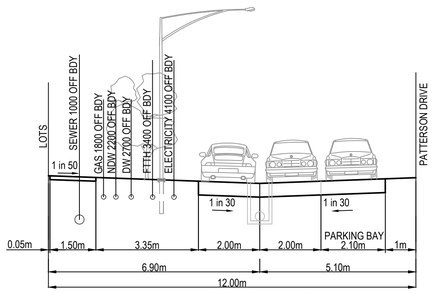
16m ACCESS STREET
UNITED WAY



14.5m ACCESS STREET
VALLEYMOUNT CIRCUIT (ADJACENT OPEN SPACE)



14m ACCESS STREET
WICKLOW CRESCENT (LOTS 2921 & 2922)



12m ACCESS LANE
RUSH PLACE

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H
PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

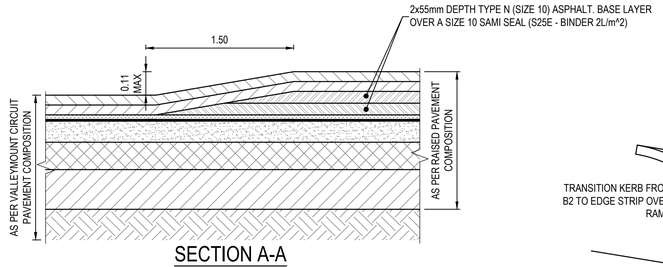
0 1 2 4
Scale 1:100
SCALE AS SHOWN AT A1

smec an SNC company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

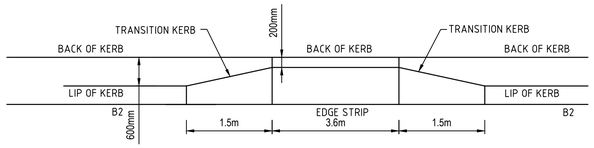
mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Typical Cross Sections

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-412	25 of 27	A



SECTION A-A
NOT TO SCALE



SECTION B-B
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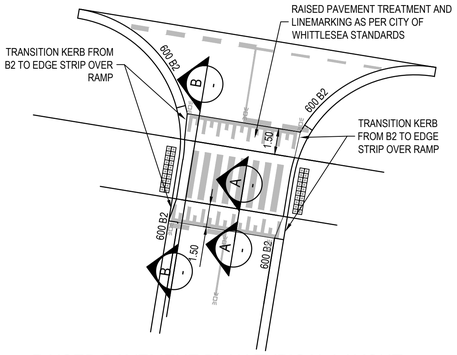
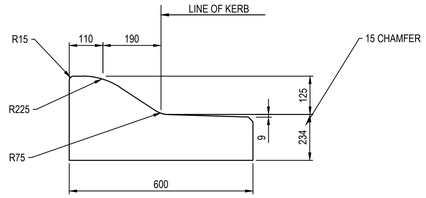
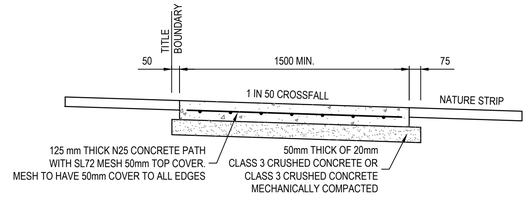


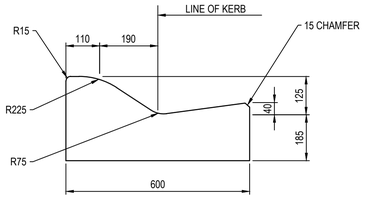
RAISED PAVEMENT PLAN TYPICAL LAYOUT
(WIMBI WAY & VALLEYMOUNT CIRCUIT INTERSECTION)
NOT TO SCALE



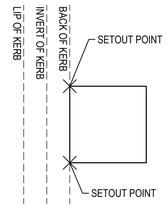
SM3 KERB DETAIL
SCALE 1:10



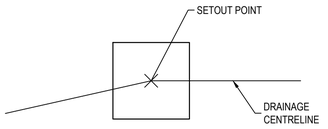
TYPICAL FOOTPATH CROSS SECTION
NOT TO SCALE



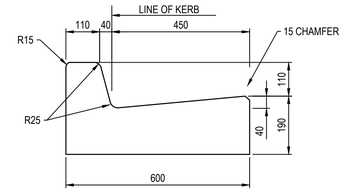
SM2 KERB DETAIL
SCALE 1:10



PIT SETOUT POINT DETAIL
NOT TO SCALE

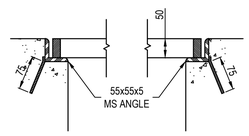


PIT SETOUT POINT DETAIL
NOT TO SCALE

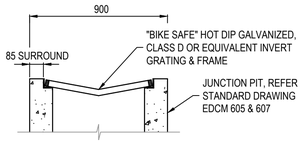


600 B2 KERB DETAIL
SCALE 1:10
EDCM

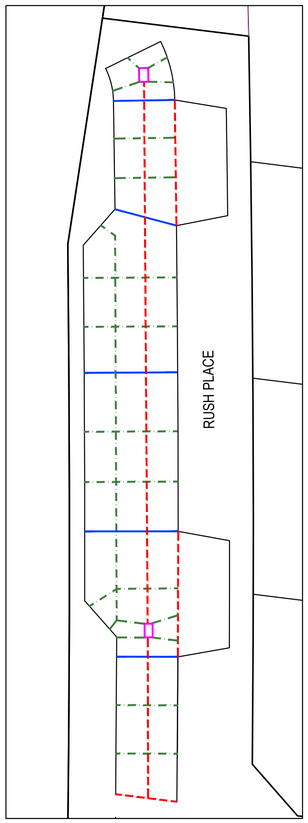
NOTES
1. REFER TO EDCM STANDARD DRAWINGS 605, 606 & 607 FOR PIT DETAILS.
2. GRATE FRAME TO BE "BIKE SAFE" TO AS3996-1992



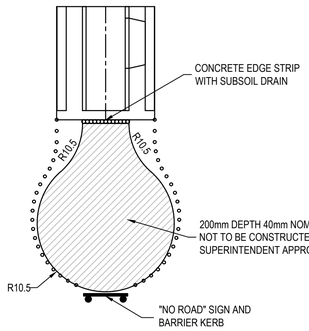
SECTION THROUGH GRATE



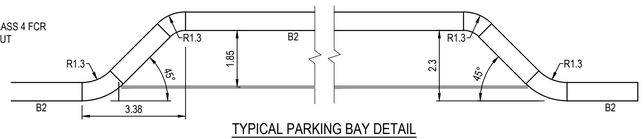
SECTION THOUGH PIT



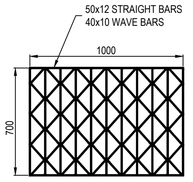
CONSTRUCTION JOINT DETAIL
RUSH PLACE



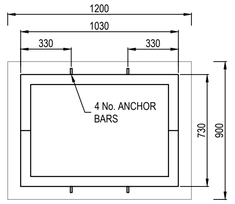
TEMPORARY TURN AREA DETAIL
NOT TO SCALE



TYPICAL PARKING BAY DETAIL
NOT TO SCALE



GRATE

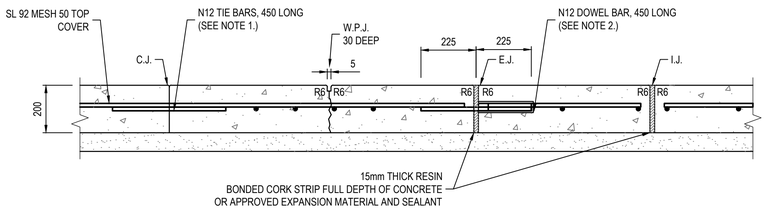


GRATE FRAME

LEGEND	
	DOWEL CONSTRUCTION JOINT
	WEAKENED PLANE JOINT
	EXPANSION JOINT
	ISOLATION JOINT

NOTES:

1. TIE BARS TO BE INSTALLED AT 400 MAXIMUM CENTRES COMMENCING 150 FROM EDGE.
2. DOWEL BARS TO BE INSTALLED AT 400 CENTRES COMMENCING AT A MINIMUM OF 100 AND A MAXIMUM OF 200 FROM THE EDGE OF PATH. 16 DIAMETER PVC SLEEVE WITH END CAP OR CLOSED END TO BE FITTED TO ONE END OF THE BAR. DOWEL BARS TO BE SECURELY TIED TO LONGITUDINAL REINFORCING MESH.
3. EXPANSION JOINTS (EJ) LOCATED BOTH SIDE OF VEHICLE CROSSING AND AT MAXIMUM OF 12000 CENTRES.
4. WEAKENED PLANE JOINTS LOCATED AT SPACINGS EQUAL TO THE WIDTH OF THE PATH AND MADE WITH A 'T' IRON OR CONCRETE SAW CUT.
5. IN SHARED PATHS WEAKENED PLANE JOINTS MUST BE MADE BY CONCRETE SAW CUTTING.
6. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGE AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
7. ALL FINISHED SURFACES TO COMPLY WITH AS 4586 SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIAL.
8. THE USE OF COLOURED CONCRETE MUST BE APPROVED BY COUNCIL. MINIMUM STRENGTH OF COLOURED CONCRETE TO BE 32 MPa.
9. FORMWORK TIMBER TO BE MIN. 125mm DEEP.
10. ALL DIMENSIONS IN MILLIMETRES.
11. SHARED PATHS TO BE 2.5m IN WIDTH MINIMUM. REFER TO APPROVED CONSTRUCTION
12. PLANS FOR ACTUAL WIDTH.



DOWEL CONSTRUCTION JOINT (C.J.) (NOTE 1)
CONTROL JOINT/ WEAKENED PLANE JOINT (W.P.J.) (NOTE 4)
EXPANSION JOINT (E.J.) (NOTE 2)
ISOLATION JOINT (I.J.)

CONCRETE JOINT DETAILS
NOT TO SCALE

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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PLAN OF SUB. NO. PS913459H
PERMIT REF. NO. 719067

SUBJECT TO APPROVAL

SCALE AS SHOWN AT A1

smec an SJ company
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
General Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
367 G11	1700E-029-421	26 of 27	A

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-29\1700E-029-421.dwg PRINTED BY: KK16460 on 01/07/2025 at 12:02:54 PM

PHASE	DISCIPLINE CODE		POTENTIAL RISK (Construction, Operations, Maintenance)		RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED? YES / NO	RESIDUAL RISK LIKELIHOOD (0-5)	RESIDUAL RISK CONSEQUENCE (0-5)	RESIDUAL RISK RATING	RESIDUAL RISK OWNER
Road Furniture / Roadside Features													
Construction	RD	Roads	Construction close to live traffic	New works will be constructed adjacent to live traffic when abutting existing stages.	Contractor	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15	Constructor
Construction	RD	Roads	Culverts	Potential risk from culverts under construction and height / fall hazards	Contractor	Falling from a height	Temporary barriers to be provided	Temporary barrier provided in contract	N	2	5	10	Constructor
Construction	US	Utilities or Services	Utilities become a hazard within clear zones	Vehicle conflict with utility / pit	Contractor	Personal injury, vehicle damage	Sequence works and protect with temp barrier or traffic control (TCP)	TCP provided within contract	N	1	5	5	Constructor
Operational	RD	Roads	Sight Lines	Inadequate drivers response time.	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Vis lines checked and discussed with approval authority as part of design approval process	N	1	4	4	Road Authority
Operational	LS	Lines and Signs	Signs and street lights	Potential for drivers / riders to strike signs and street lights	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Refer to appropriate standard for sign and lighting offsets	N	1	4	4	Road Authority
Operational	RF	Road Furniture	Headwalls	Potential vehicle conflict within clear zone	Road Authority	Increased potential for accidents	Establish adequate clear zone provision	Adequate barrier provided as per appropriate standard where within clear zone. Culvert headwall selection in accordance with authority standard	N	2	4	8	Road Authority
Operational	RD	Roads	Culverts	Potential fall hazard during maintenance, by vechicles and pedestrians	Relevant Authority	Falling from a height	Barriers to be provided in accordance with road standards	Barriers to be provided and safe batter slopes (>1:3)	N	2	5	10	Constructor
Retaining Walls													
Construction	RW	Retaining Walls	Retaining Wall Alignment	Falling from height during construction or commissioning of walls and adjacent structures eg. sewer manholes	Contractor	Falling from a height	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	1	1	Constructor
Operational	RW	Retaining Walls	Retaining Wall Alignment	Lack of safe access/setback from road	Road/ Local Authority	Increased potential for accidents	Establish adequate and accessible clear zone provision. Provide guardrail where required	Wall located in suitable position during design process and approved by authority	N	1	1	1	Authority
Operational	RW	Retaining Walls	Retaining Wall Height	Potential for falling from height	Road/ Local Authority	Personal injury	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	5	5	Authority
Operational	RW	Retaining Walls	Retaining Wall Design	Potential for wall failure	Road/ Local Authority	Increased potential for accidents	Structural design in accordance with standards, geotechnical conditions, end use and good practise.	Refer to structural drawings and calculations	N	1	5	5	Authority
Drainage													
Operational	DR	Drainage	Grated Pits	Trip/fall hazard with large spaced grate	Relevant Authority	Increased potential for accidents	Provide pedestrian/bicycle friendly grates where applicable. Refer to pit schedule	Design in accordance with authority and manufacturers standards	N	3	2	6	Authority
Operational	DR	Drainage	Non Standard Large Pits	Potential for pit failure	Relevant Authority	Increased risk to maintenance crews/ vehicles	Structural design in accordance with relevant design principles.	Refer to structural drawings and calculations	N	1	4	4	Authority
Operational	DR	Drainage	Culvert Endwalls/Headwalls	Potential for falling from height	Relevant Authority	Increased potential for accidents	Fencing to be provided where culverts/headwalls are at height in accordance with relevant authority standards	Allow for fencing in Design Process	N	1	4	4	Authority
Operational	DR	Drainage	Culvert Endwall/Headwall Outlets	Children playing in large pipes / watercourses and access for maintenance	Relevant Authority	Increased potential for accidents	Grate provided to authority standards	Design in accordance with authority and manufacturers standards	N	2	5	10	Authority
Maintenance	DR	Drainage	Access to Pits	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Provide safe landing/ access arrangements as per relevant authority standards	Where possible design pit in location for easy access and outside of permanent water bodies	N	2	5	10	Authority
Maintenance	DR	Drainage	Deep Pits	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, step irons to be provided to appropriate authority standards. Refer to pit schedule	Design in accordance with authority standards	N	1	5	5	Authority
Maintenance	DR	Drainage	Access to drains / culverts	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Access as approved by authority	Design pit in location for easy access as agreed with authority	N	2	3	6	
Sewer													
Construction	SE	Sewer	Sewer Manhole located adjacent to Retaining Wall Alignment	Falling from height during construction or commissioning of adjacent sewer manholes	Contractor	Falling from a height	Provide temporary fencing until such time that permanent fencing is constructed	Provide fencing (at heights) during design process	N	1	1	1	Constructor
Maintenance	SE	Sewer	Deep Manholes	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, landings and step access provided as per authority standards and schedule	Design in accordance with authority standards. Refer pit schedule on drawings	N	1	5	5	Authority
Maintenance	SE	Sewer	Access to Manholes	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Manholes located in compliance with authority standards	Where possible design manhole in location for easy access	N	1	5	5	Authority
Maintenance	SE	Sewer	Pump Station Access	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance	Design pump station in location for easy access	N	2	4	8	Authority
Electricity													
Operational	ES	Electrical Services	Electrical Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Electrical designed by sub consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
Telstra													
Operational	TE	Telstra	Telstra Design	Location of assets within clear zones e.g.. pits	Relevant Authority	Increased potential for accidents	Telecommunications designed by authority consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
Water													
Operational	WA	Water	Water Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
Gas													
Operational	GA	Gas	Gas Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	1	1	1	Authority

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	13.05.25	ISSUED TO COUNCIL FOR APPROVAL	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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SUBJECT TO APPROVAL

SCALE AS SHOWN AT A1

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mirvac

Olivine Estate - Stage 29
Whittlesea City Council
Road and Drainage
Safety In Design

MELWAYS REF 367 G11 | PROJECT / DRAWING No. 1700E-029-500 | SHEET No. 27 of 27 | REVISION A

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