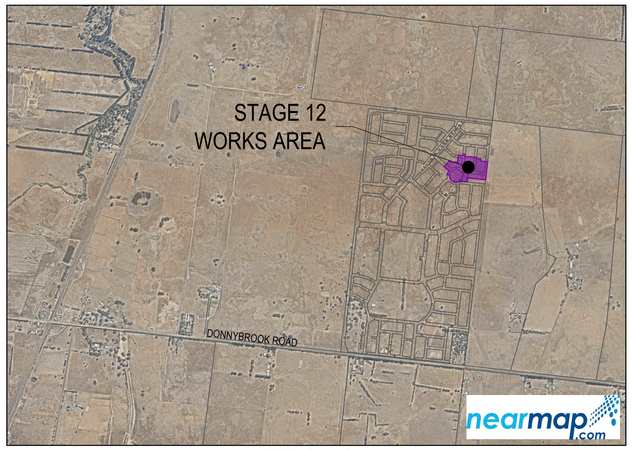
Olivine Estate
Stage 12

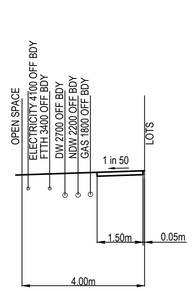


LOCALITY PLAN
MELWAYS REF: 8M2

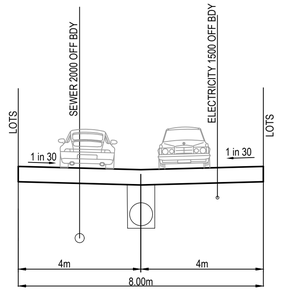
WARNING
SAFETY MEASURES REQUIRED
Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety In Design Risk Register
SID P4.E6. 1700E-12-85
ASSESS THE RISK - STAY SAFE

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

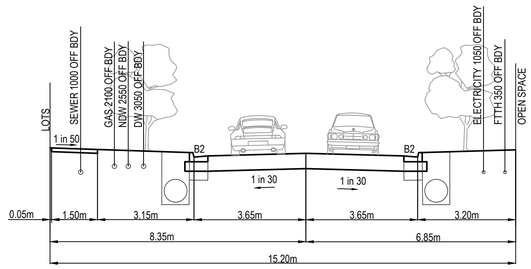
Drawing Index



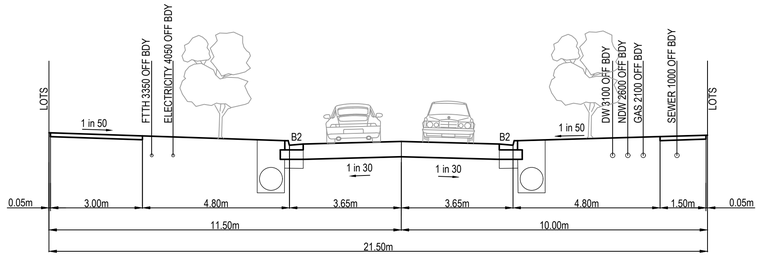
4.5m PAPER ROAD
ATLAS WAY



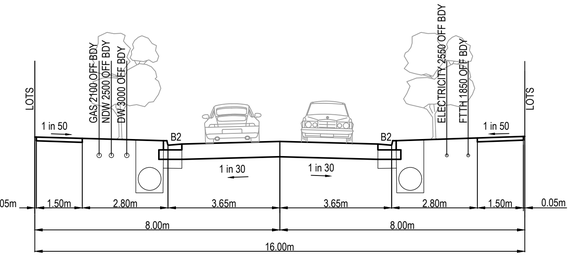
8m ACCESS STREET
ORBIT LANE



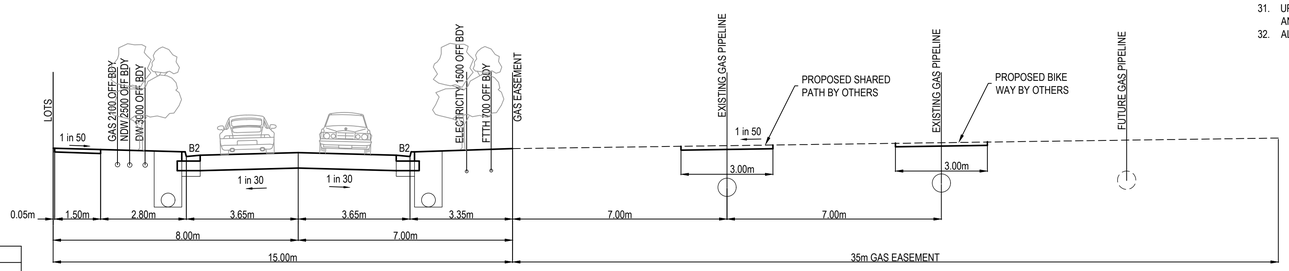
15.20m ACCESS STREET
COMPASS CRESCENT ADJACENT OPEN SPACE



21.5m ACCESS STREET
SANCTUARY BOULEVARD, COMPASS CRESCENT ADJACENT LOTS



16m ACCESS STREET
VILLAGE GROVE, UNION TERRACE, AXIS STREET



15m MODIFIED ACCESS STREET ADJACENT GAS EASEMENT
GLOBE PARADE

TABLE 6: TBM SETOUT TABLE

POINT	EAST	NORTHING	ELEVATION	DESCRIPTION
C29SSPG	323499.03	5843944.52		STAR PICKET
C30SSPG	323475.70	5843739.50		STAR PICKET

SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		NON-DRINKING WATER		DRINKING WATER		ELECTRICITY		NBN	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
COMPASS CRESCENT (LOT1213 - LOT1230)	NORTH	2.10	NORTH	2.60	NORTH	3.10	SOUTH	4.05	SOUTH	3.35
COMPASS CRESCENT (ADJACENT OPEN SPACE)	NORTH	2.10	NORTH	2.55	NORTH	3.05	SOUTH	1.05	SOUTH	0.35
LONSDALE PARADE	WEST	2.10	WEST	2.50	WEST	3.00	EAST	1.50	EAST	0.70
HARDWOOD GROVE	NORTH	2.10	NORTH	2.50	NORTH	3.00	SOUTH	2.55	SOUTH	1.85
SILVER STREET	EAST	2.10	EAST	2.50	EAST	3.00	WEST	2.55	WEST	1.85
DAYBOOK TERRACE	EAST	2.10	EAST	2.50	EAST	3.00	WEST	2.55	WEST	1.85
WILLOWMEAD BOULEVARD	EAST	2.10	EAST	2.60	EAST	3.10	WEST	4.05	WEST	3.35
COVE LANE	-	-	-	-	-	-	EAST	1.50	-	-
FLORET LANE	EAST	1.80	EAST	2.20	EAST	2.70	EAST	4.10	EAST	3.40

ROAD LAYOUT TABLE

ROAD NAME	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
COMPASS CRESCENT (LOT1213 - LOT1230)	21.50	6.40	7.30	7.60	B2	B2	6.35	7.85
COMPASS CRESCENT (ADJACENT OPEN SPACE)	15.20	6.40	7.30	7.60	B2	B2	4.70	3.20
LONSDALE PARADE	15.00	6.40	7.30	7.60	B2	B2	4.35	3.35
HARDWOOD GROVE	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
SILVER STREET	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
DAYBOOK TERRACE	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
WILLOWMEAD BOULEVARD	21.50	6.40	7.30	7.60	B2	B2	6.35	7.85
ORBIT LANE	8.00	8.00	-	-	-	-	-	-
ATLAS WAY	4.50	-	-	-	-	-	-	-

GENERAL NOTES (WHITTLESEA CITY COUNCIL)

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE VPA MANUAL AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. 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 HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
   - 3.3. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVENT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. REDGUM TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED IN ACCORDANCE WITH COUNCIL'S PLANNING PERMIT. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE WITHOUT WRITTEN APPROVAL FROM COUNCIL'S SUPERVISING OFFICER.
7. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
8. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
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. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORKS COMMENCING. THESE AREAS SHALL BE SURFACED WITH A 100mm MINIMUM TO 200mm MAXIMUM LAYER OF TOPSOIL AS SPECIFIED.
11. NO TOPSOIL TO BE REMOVED FROM SITE.
12. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT.
13. FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-1996. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT.
14. FILLING UNDER DRIVEWAYS AND FOOTPATH IS TO BE APPROVED BY THE SUPERINTENDENT AND CONSTRUCTED IN LAYERS 150mm DEPTH. COMPACTION ACHIEVING 98% AUSTRALIAN STANDARD DENSITY.
15. CUT AND FILL BATTERS ARE NOT TO EXCEED 1 in 6 UNLESS SHOWN OTHERWISE.
16. ALLOTMENTS TO BE GRADED TO ENSURE A MINIMUM GRADE OF 1 in 150.
17. ALL DRAINAGE PIPES UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED. PIPES ABOVE THIS SIZE MUST BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS.
18. ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, KERB & CHANNEL, PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERBS & CHANNEL SHALL BE BACKFILLED WITH CRUSHED ROCK AS SPECIFIED.
19. ALL PITS GREATER THAN OR EQUAL TO 900mm DEPTH TO BE PROVIDED WITH STEP IRONS IN ACCORDANCE WITH SD1041 AND COUNCIL STANDARD DRAWING EDCM 609
20. PROPERTY INLETS AS PER WHITTLESEA CITY COUNCIL STANDARD DRAWING EDCM 701-704 AND ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS SHOWN OTHERWISE.
21. ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 7.0m FROM THE SIDE BOUNDARY OR FROM EASEMENT ALONG THE SIDE BOUNDARY UNLESS NOTED OTHERWISE AND CONNECTED DIRECTLY TO UNDERGROUND DRAIN OR PIT. HOUSE DRAIN LOCATION TO BE MARKED (50mm STAMPED IMPRESSION) ON THE TOP OF THE KERB.
22. SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL AS PER STANDARD DRAWING EDCM 202.
23. 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) AND C (COUNCIL COMMUNICATION) AS PER STANDARD DRAWING EDCM 303.
24. ALL SERVICING TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS ETC. ARE TO BE BACKFILLED & COMPACTED WITH F.C.R. IN THE CASE OF TRENCHES UNDER ROADS WHERE BACKFILLING HAS NOT ACHIEVED THE SPECIFIED COMPACTION OR SHOWS EXCESSIVE MOVEMENT UNDER PROFFROLLING, THE BACKFILLING SHALL BE REMOVED AND REPLACED WITH 2% STABILISED COMPACTED F.C.R. ALL SERVICES ARE TO BE PLACED PRIOR TO THE CAPPING LAYER.
25. NO TELSTRA PITS ARE TO BE LOCATED IN THE FOOTPATH.
26. VEHICULAR CROSSINGS TO BE LOCATED CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. VEHICLE CROSSINGS TO BE 1.5m FROM PROPERTY BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. VEHICULAR CROSSINGS TO BE CONSTRUCTED AS PER WHITTLESEA CITY COUNCIL'S SPECIFICATIONS AND EDCM 501 TO 503.
27. ALL PEDESTRIAN CROSSING THROUGH SPLITTER ISLANDS TO BE IN ACCORDANCE WITH SD606.
28. ALL STREET SIGNS TO BE IN ACCORDANCE WITH SD812. STREET SIGNS TO BE ATTACHED TO LIGHT POLES USING 'SINGLE DIRECTION COLLAR' OR '90° RIGHT ANGLE COLLAR' UNLESS SHOWN OTHERWISE.
29. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND AS1742.1 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.
30. THE CAPPING LAYER MUST BE DEMONSTRATED THROUGH TESTING THAT ITS PROPERTIES (CBR, PERMEABILITY, ETC.) SATISFY LIMITS AS OUTLINED IN THE TECHNICAL SPECIFICATION TABLE 20.3.5B WITH A MINIMUM MODULUS OF 100MPa.
31. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED, ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
32. ALL FOOTPATHS & SHARED PATHS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM 401.

NOTES FOR WORKS UNDER OVERHEAD ELECTRICAL POWERLINES

1. MAINTENANCE AND REFUELLING OF VEHICLES AND EQUIPMENT MUST NOT BE CARRIED OUT UNDER POWERLINES
2. THE STORAGE OR HANDLING OF FLAMMABLE LIQUIDS OR GASSES IS NOT PERMITTED UNDER POWERLINES
3. THE PARKING OF LARGE VEHICLES OR CARAVANS, SITE HUTS OR SIMILIAR IS NOT PERMITTED UNDER POWERLINES
4. STOCKPILING OF EXCAVATED MATERIAL IS NOT PERMITTED UNDER POWERLINES
5. VEHICLES AND EQUIPMENT EXCEEDING 3 METRES MAXIMUM OPERATING HEIGHT ARE NORMALLY NOT PERMITTED UNDER AUSNET'S POWERLINES. A HIGHER OPERATING HEIGHT LIMIT IS SUBJECT TO SUFFICIENT CLEARANCE TO THE CONDUCTORS AND WRITTEN APPROVAL
6. SP AUSNET'S LINES CONTRACT SUPERVISOR MUST BE NOTIFIED AT LEAST 10 WORKING DAYS PRIOR TO THE WORKS COMMENCING SO THAT APPROPRIATE PERMITS CAN BE ARRANGED. ADDITIONAL SAFETY PRECAUTIONS DEEMED NECESSARY WILL BE ADVISED AT THIS TIME. ALL PERSONS COMMENCING WORK ON THE SITE MUST BE MADE AWARE OF PERMIT CONDITIONS AND SAFETY PRECAUTIONS
7. ALL WORK IN THE VICINITY MUST BE IN ACCORDANCE WITH THE INDUSTRIES NO GO ZONE REQUIREMENTS AND SP AUSNET MUST BE SATISFIED THAT ALL SUB CONTRACTORS WORKING IN THE AREA IN THE VICINITY OF THE OVERHEAD LINES WORK WITHIN THESE GUIDELINES, INCLUDING THE PROVISION OF A SPOTTER AS REQUIRED.

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

0 200 400 800
Scale 1:20,000
SCALE AS SHOWN AT A1

N

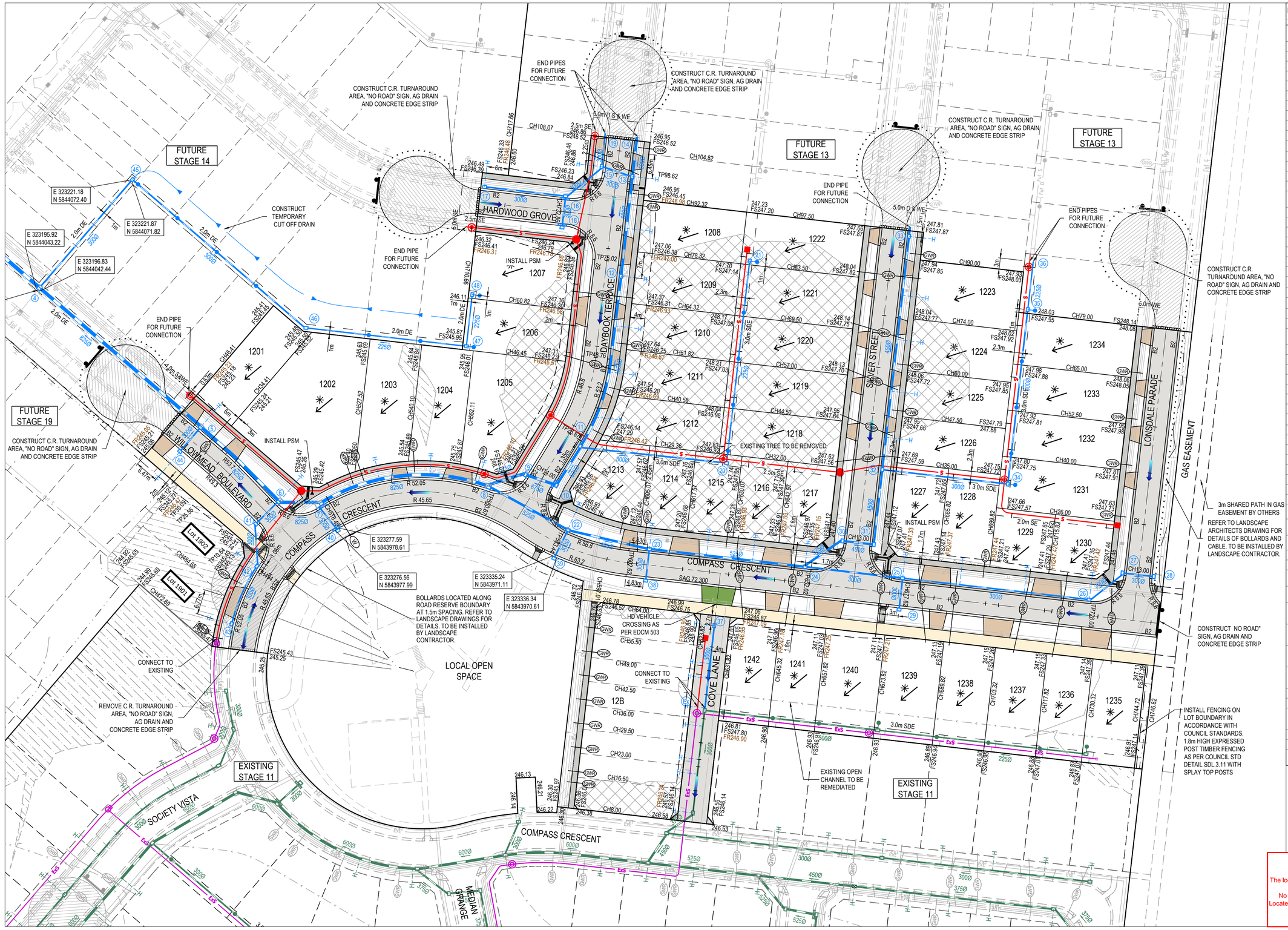
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Cover Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-01	01 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-01.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:47:21 AM



LEGEND - LAYOUT PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
S T	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
E	ELECTRICITY (U.GROUND)
G	GAS
T	TELSTRA
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 G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex.Ag	EXISTING AG. DRAIN
GWR	M
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
Fut H	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
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
	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 RED GUMTREE & CANOPY TO BE REMOVED
	EXISTING OTHER SPECIES TREE & CANOPY TO BE REMOVED
	EXISTING RED GUM TO BE RETAINED
	EXISTING OTHER SPECIES TO BE RETAINED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	PROPOSED INDUSTRIAL VEHICLE CROSSING

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

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

N

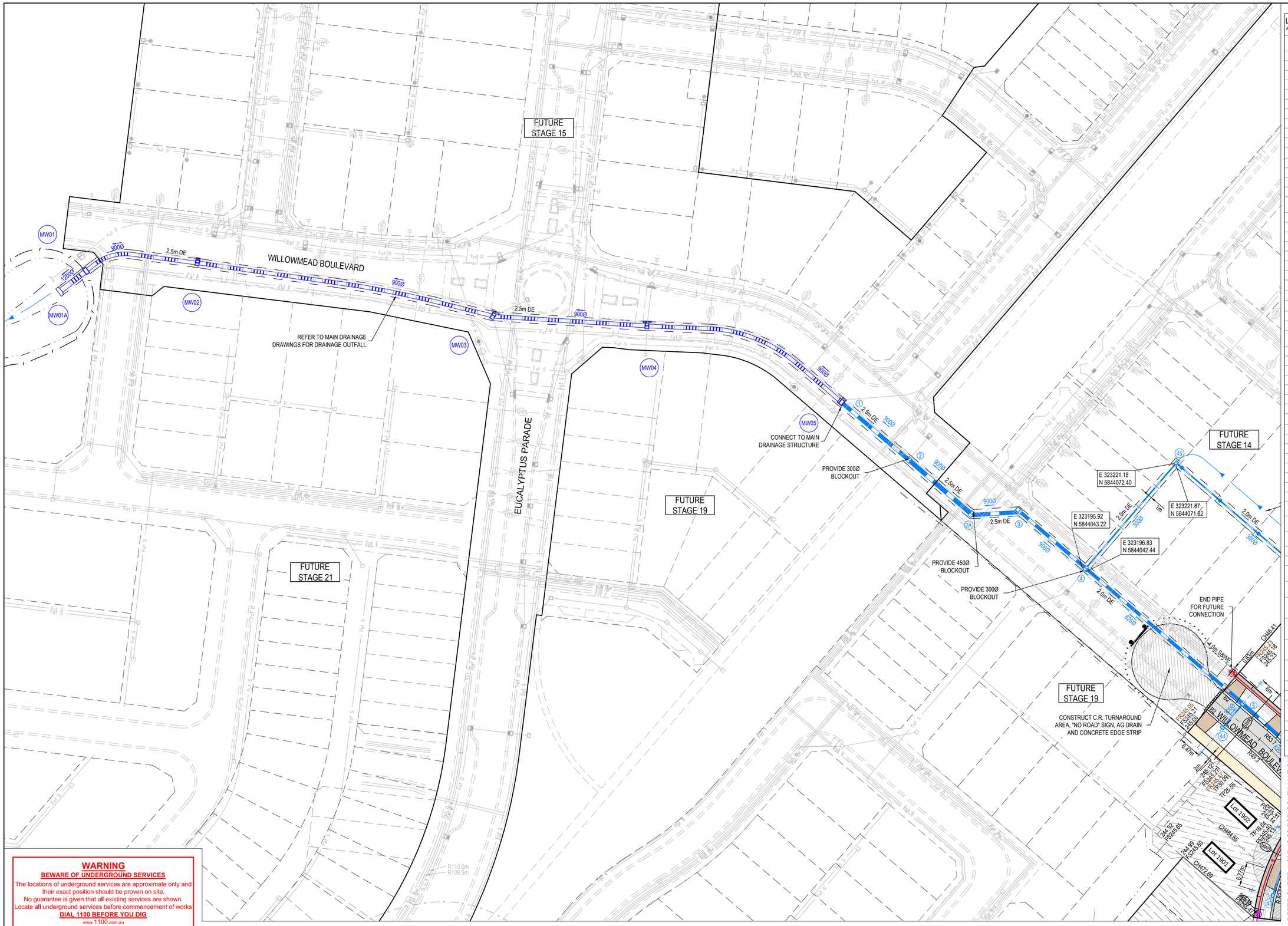
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Layout Plan - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-02	02 of 27	3

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-02.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:49:34 AM



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

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)
G	GAS
T	TELSTRA
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 G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex.Ag	EXISTING AG. DRAIN
GWR	M
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
Fut H	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
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
	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 RED GUMTREE & CANOPY TO BE REMOVED
	EXISTING OTHER SPECIES TREE & CANOPY TO BE REMOVED
	EXISTING RED GUM TO BE RETAINED
	EXISTING OTHER SPECIES TO BE RETAINED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	PROPOSED INDUSTRIAL VEHICLE CROSSING

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

N

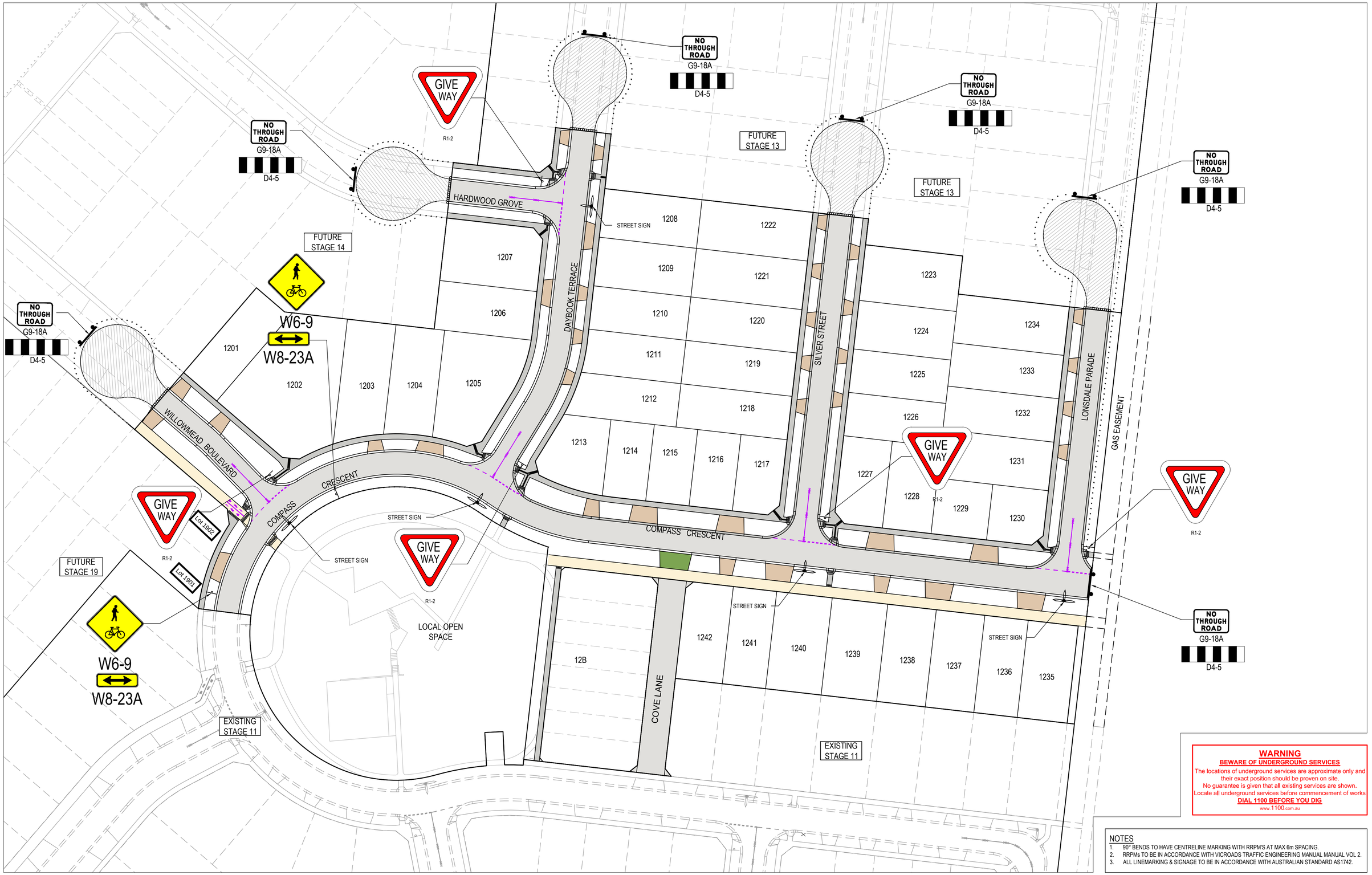
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Layout Plan - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-03	03 of 27	2

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-03.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:51:10 AM



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.

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

N

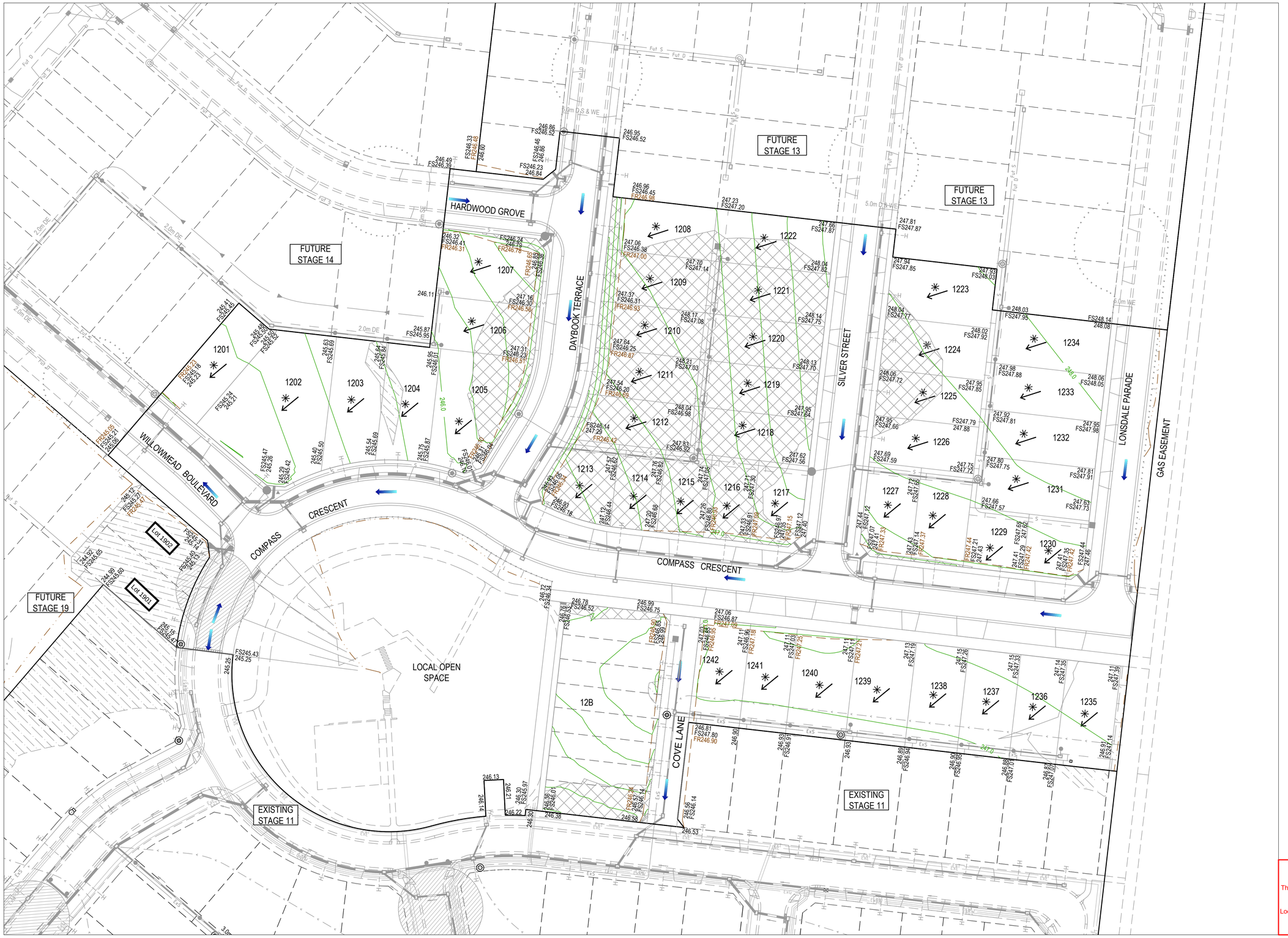
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Signs & Linemarking Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-04	04 of 27	3

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-04.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:52:41 AM



LEGEND - EARTHWORKS PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
S T	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
Ex GW	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
Fut S	FUTURE SEWER & MAINTENANCE STRUCTURES
Fut H	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
Fut O/H E	FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
Fut O	FUTURE OPTIC FIBRE
Fut W	FUTURE WATER
Fut RW	FUTURE RECYCLED WATER
Fut Ag	FUTURE AG. DRAIN
Fut 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

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

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

N

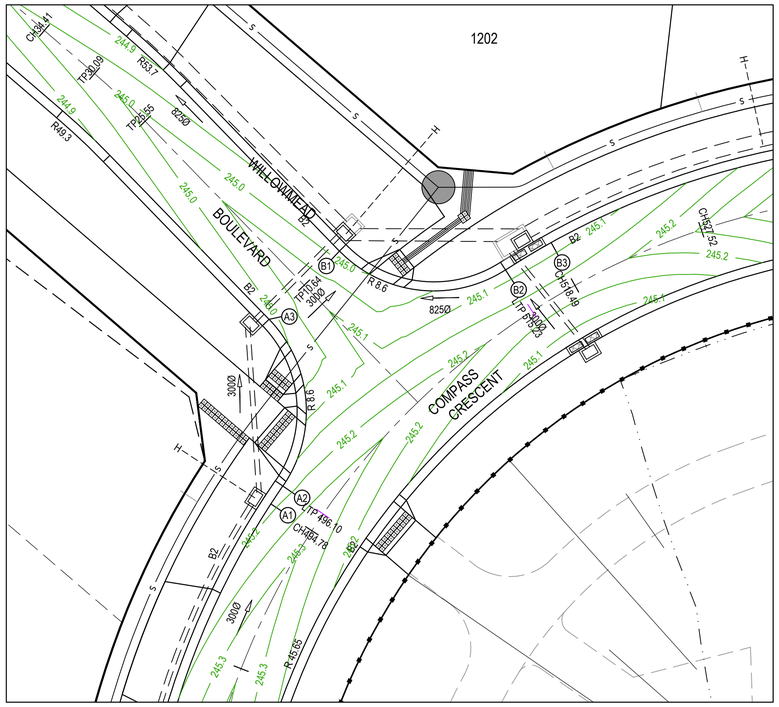
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

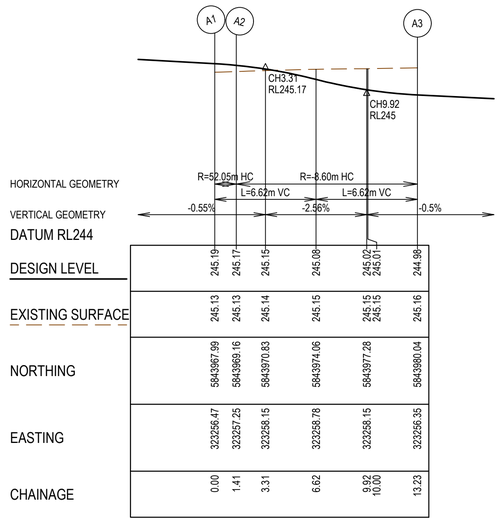
mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Earthworks Plan

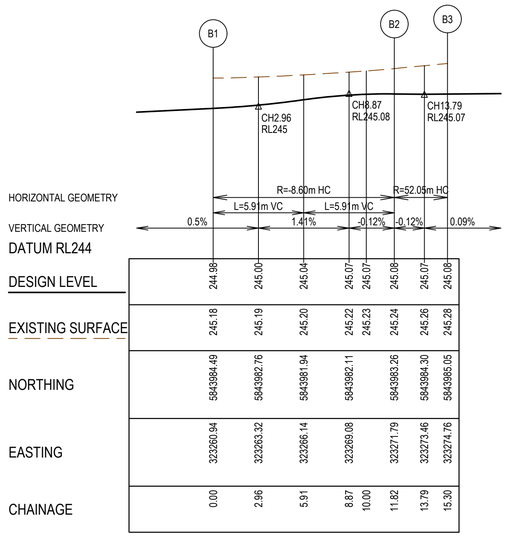
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-05	05 of 27	2

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-05.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:53:35 AM





LIP LINE A



LIP LINE B

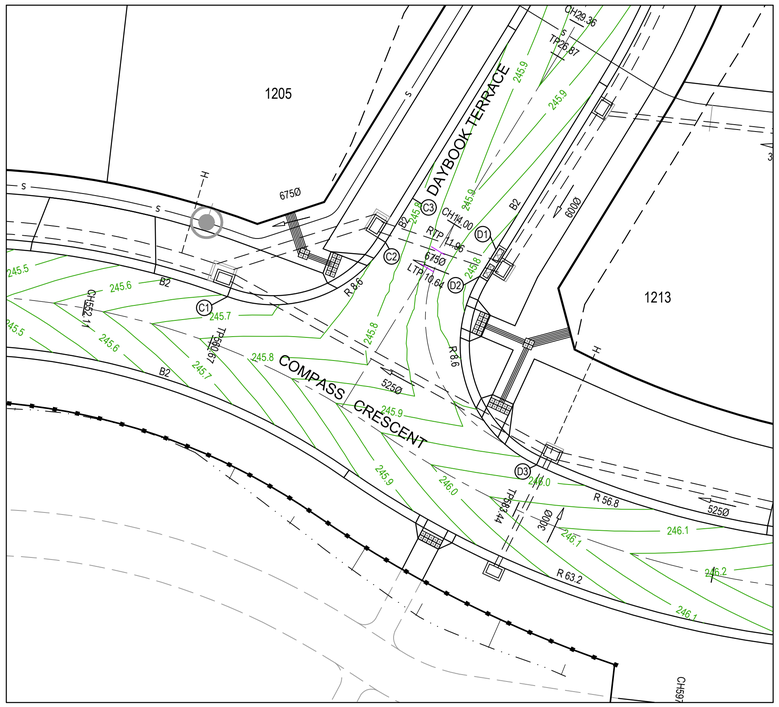
NOTES

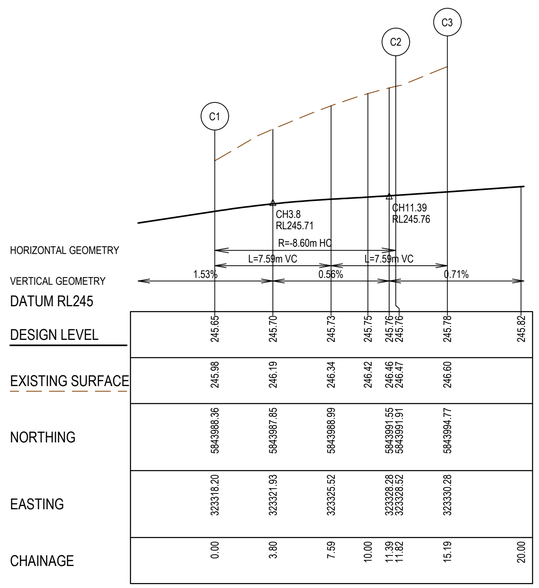
1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED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

LEGEND - INTERSECTION DETAIL PLAN

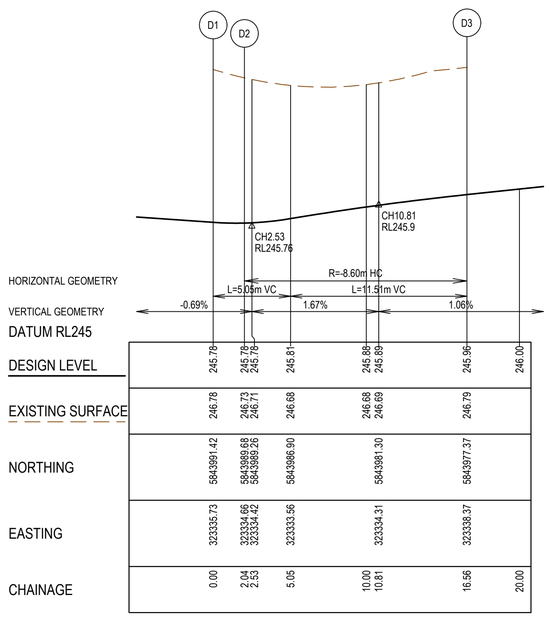
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
S T	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





LIP LINE C



LIP LINE D

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

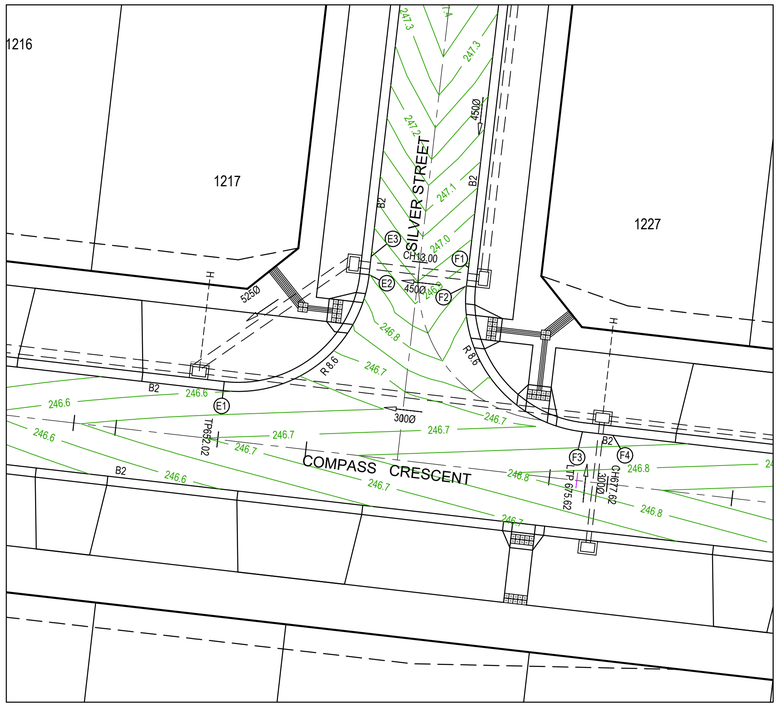
N

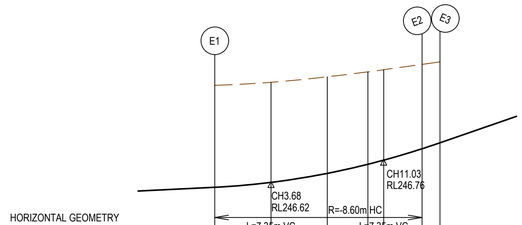
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Intersection Detail Plan - 1
Lip Profiles A - D

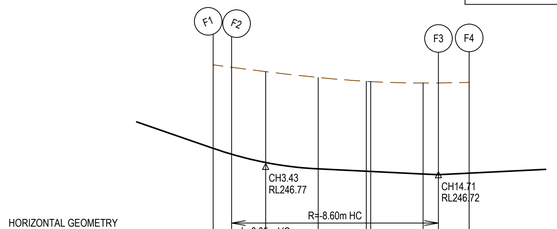
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-06	06 of 27	1





HORIZONTAL GEOMETRY							
VERTICAL GEOMETRY							
DATUM RL246							
DESIGN LEVEL	246.60	246.63	246.69	246.75	246.77	246.85	246.89
EXISTING SURFACE	247.26	247.28	247.32	247.35	247.36	247.40	247.42
NORTHING	5843966.87	5843967.24	5843969.07	5843972.05		5843974.47	5843975.63
EASTING	323404.86	323408.49	323411.64	323413.75		323414.38	323414.51
CHAINAGE	0.00	3.68	7.35	10.00	11.03	13.54	14.71

LIP LINE E



HORIZONTAL GEOMETRY							
VERTICAL GEOMETRY							
DATUM RL246							
DESIGN LEVEL	246.89	246.85	246.80	246.75	246.74 246.74	246.72	246.73
EXISTING SURFACE	247.43	247.42	247.39	247.35	247.33 247.32	247.31	247.32
NORTHING	5843974.90	5843973.71	5843971.49	5843968.29	5843965.78	5843964.36	5843963.96
EASTING	323420.87	323420.74	323420.77	323421.92	323424.22	323427.32	323430.29
CHAINAGE	0.00	1.20	3.43	6.85	10.00 10.28	13.71	14.71 16.71

LIP LINE F

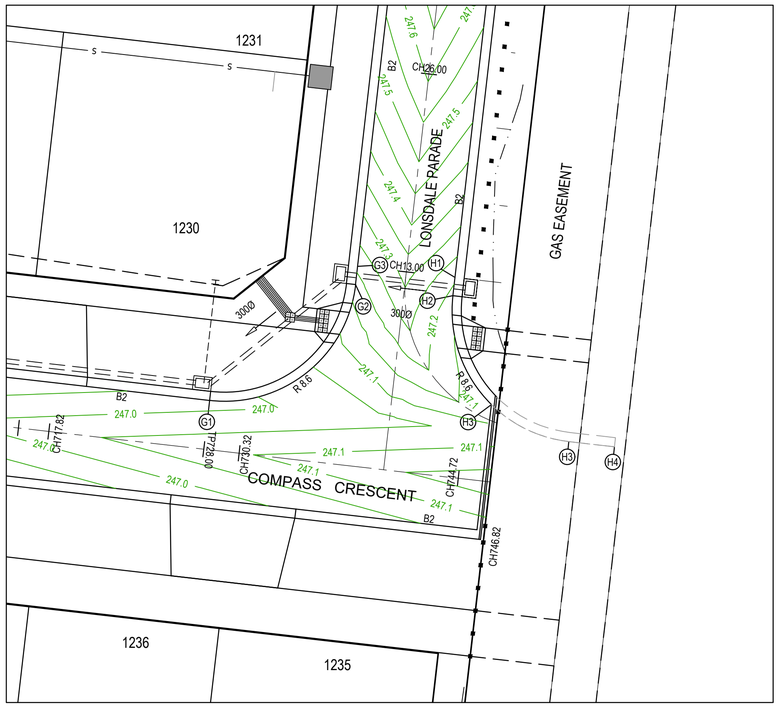
NOTES

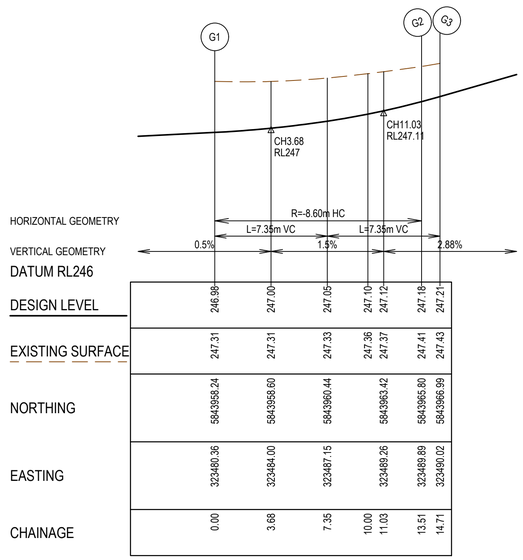
1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED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

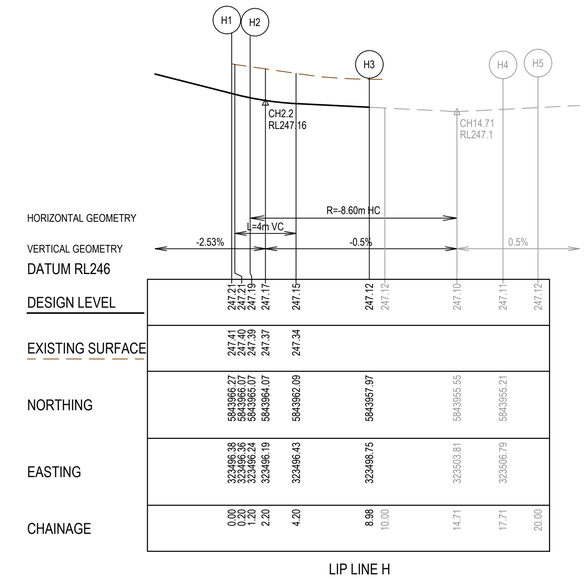
STORMWATER DRAIN, PIT & PROPERTY INLET
MAIN DRAIN
SEWER & MAINTENANCE STRUCTURES
HOUSE DRAIN
SERVICE CONDUITS
TACTILE PAVERS
EXISTING STORMWATER DRAIN
EXISTING MAIN DRAIN
EXISTING SEWER & MAINTENANCE STRUCTURES
EXISTING SERVICE CONDUITS
EXISTING TACTILE PAVERS
FUTURE STORMWATER DRAIN
FUTURE MAIN DRAIN
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





HORIZONTAL GEOMETRY							
VERTICAL GEOMETRY							
DATUM RL246							
DESIGN LEVEL	246.98	247.00	247.05	247.10	247.12	247.18	247.21
EXISTING SURFACE	247.31	247.31	247.33	247.36	247.37	247.41	247.43
NORTHING	5843958.24	5843958.60	5843960.44		5843963.42	5843965.60	5843966.99
EASTING	323480.36	323484.00	323487.15		323489.26	323489.89	323490.02
CHAINAGE	0.00	3.68	7.35	10.00	11.03	13.51	14.71

LIP LINE G



HORIZONTAL GEOMETRY								
VERTICAL GEOMETRY								
DATUM RL246								
DESIGN LEVEL	247.21 247.21	247.19	247.17	247.15	247.12	247.10	247.11	247.12
EXISTING SURFACE	247.41 247.40	247.39	247.37	247.34				
NORTHING	5843966.27 5843966.07	5843965.07	5843964.07	5843962.09	5843957.97	5843955.55	5843955.21	
EASTING	323496.38 323496.36	323496.24	323496.19	323496.43	323498.75	323503.81	323506.79	
CHAINAGE	0.00 0.20	1.20	2.20	4.20	8.98	10.00	14.71	17.71 20.00

LIP LINE H

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

N

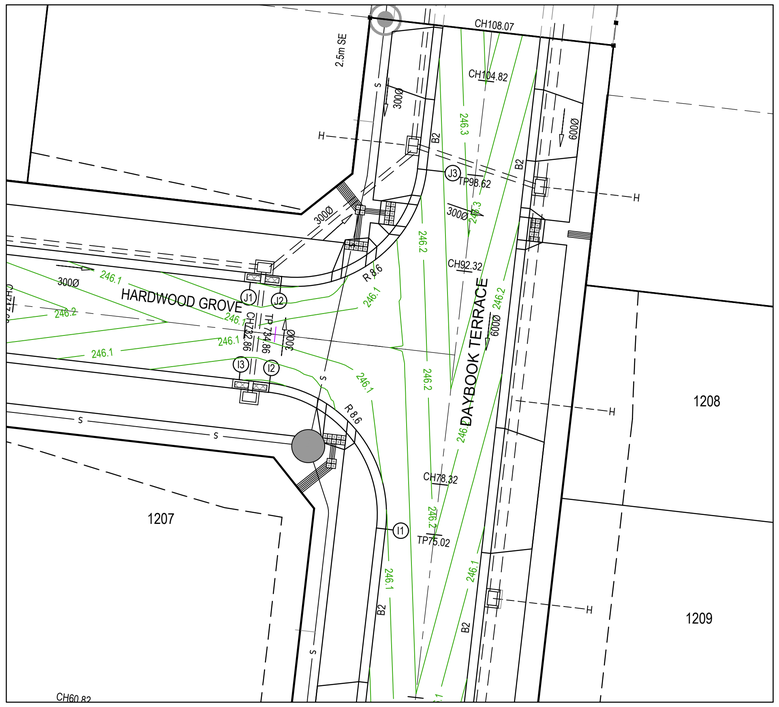
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

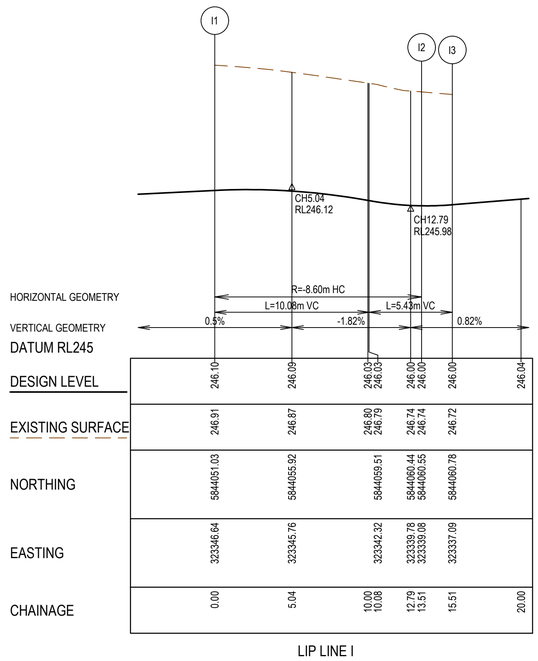
mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Intersection Detail Plan - 2
Lip Profiles E - H

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-07	07 of 27	1

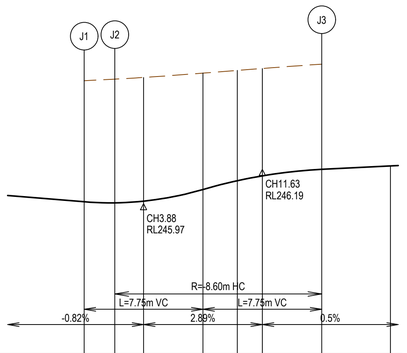
DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-07.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:55:18 AM





HORIZONTAL GEOMETRY			R=-8.60m HC				
			L=10.08m VC		L=5.43m VC		
VERTICAL GEOMETRY		0.5%		-1.82%		0.82%	
DATUM RL245							
DESIGN LEVEL	246.10	246.09	246.03 246.03	246.00 246.00	246.00	246.04	
EXISTING SURFACE	246.91	246.87	246.80 246.79	246.74 246.74	246.72		
NORTHING	5844051.03	5844055.92	5844059.51	5844060.44 5844060.55	5844060.78		
EASTING	323346.64	323345.76	323342.32	323339.78 323339.08	323337.09		
CHAINAGE	0.00	5.04	10.00 10.08	12.79 13.51	15.51	20.00	

LIP LINE I



HORIZONTAL GEOMETRY			R=-8.60m HC				
			L=7.75m VC		L=7.75m VC		
VERTICAL GEOMETRY		-0.82%		2.89%		0.5%	
DATUM RL245							
DESIGN LEVEL	246.00	246.00	246.01	246.08	246.14	246.17	246.21	246.24
EXISTING SURFACE	246.79	246.80	246.81	246.84	246.86	246.87	246.90	
NORTHING	5844067.14	5844066.91	5844066.90	5844068.15		5844070.85	5844074.48	
EASTING	323337.82	323339.80	323341.68	323345.32		323348.05	323349.33	
CHAINAGE	0.00	2.00	3.88	7.75	10.00	11.63	15.51	20.00

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.

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

N

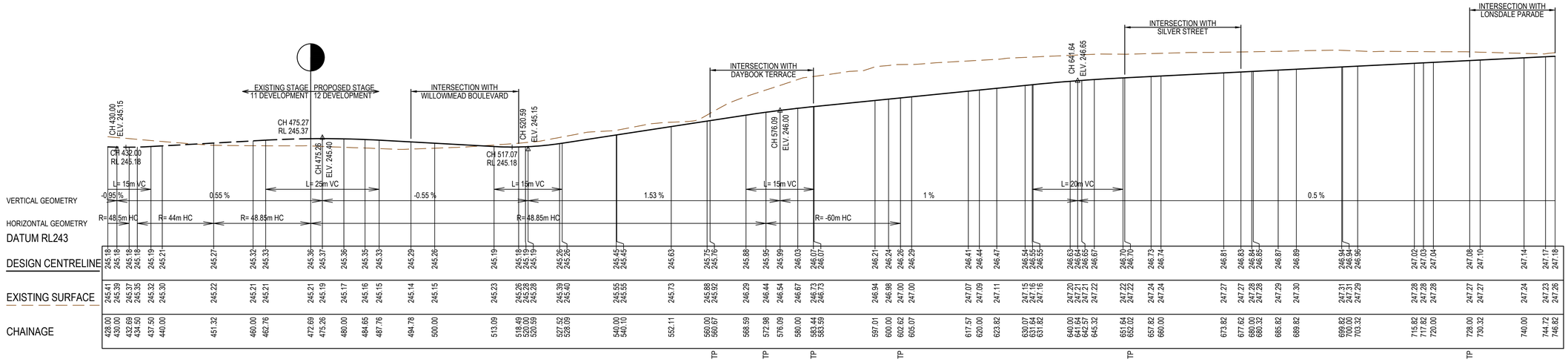
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

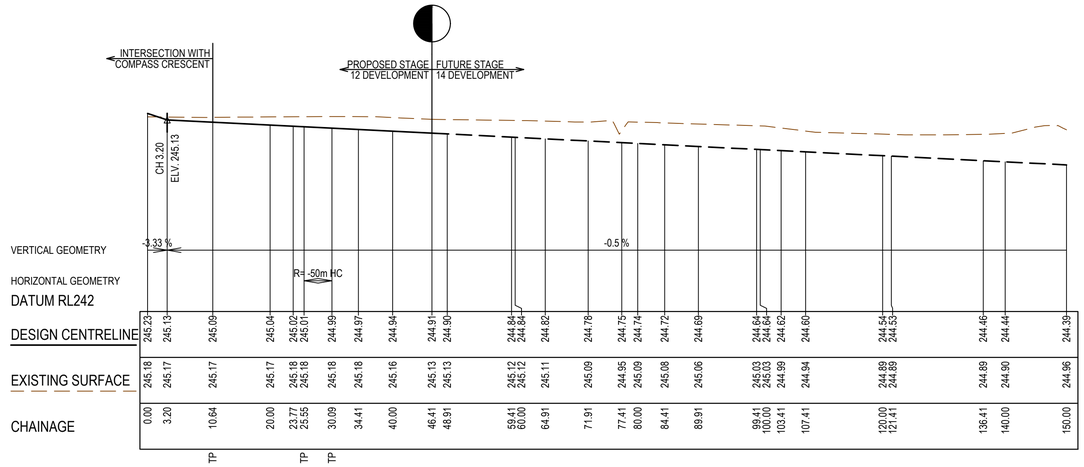
Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Intersection Detail Plan - 3
Lip Profiles I - J

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-08	08 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-08.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:56:09 AM



COMPASS CRESCENT LONGITUDINAL SECTION



WILLOWMEAD BOULEVARD LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

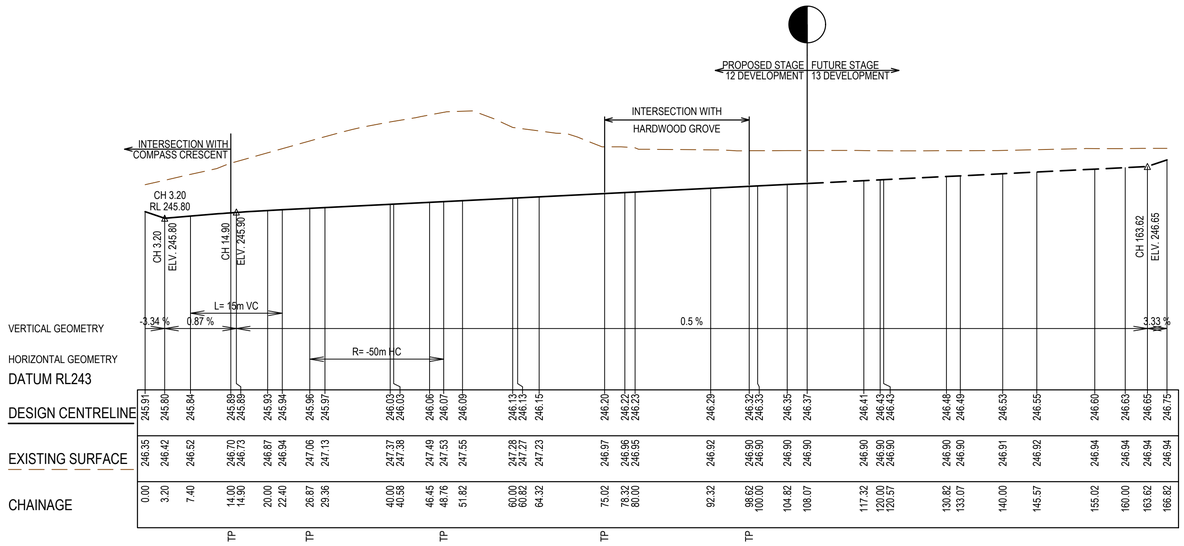
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

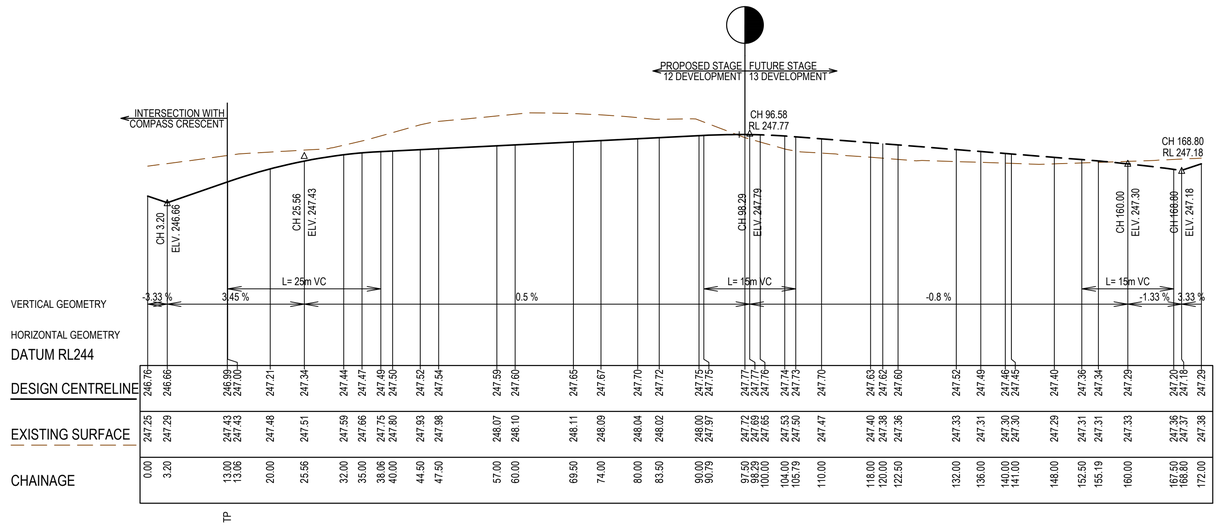
Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 1
Compass Crescent and Sanctuary Boulevard

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-09	09 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-09.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:56:48 AM



DAYBOOK TERRACE LONGITUDINAL SECTION



SILVER STREET LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

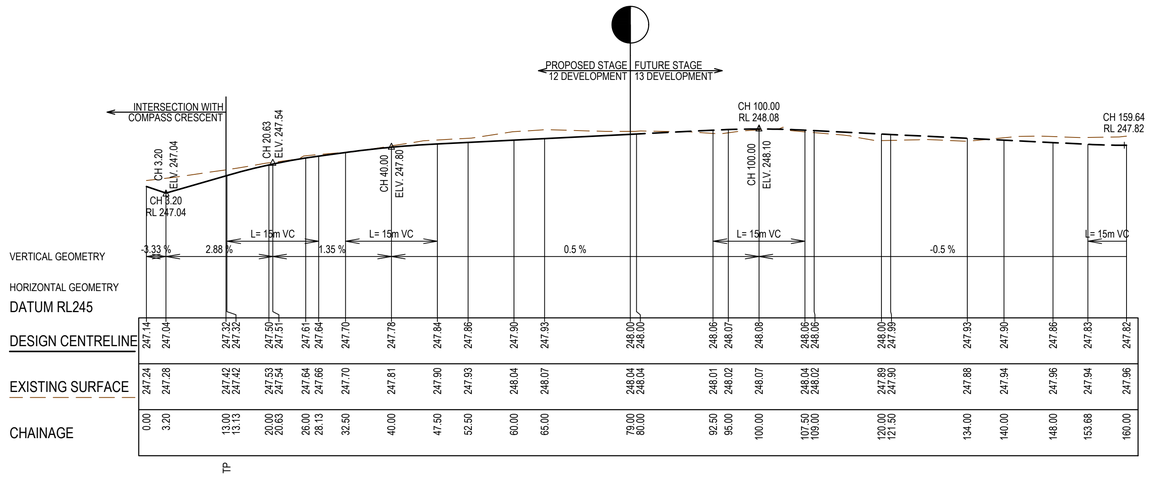
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

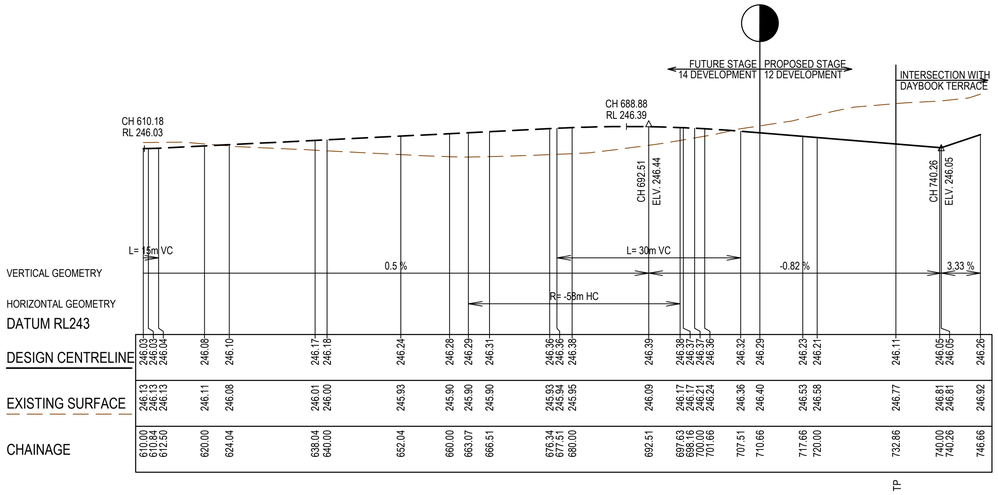
Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 2
Union Terrace and Axis Street

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-10	10 of 27	1

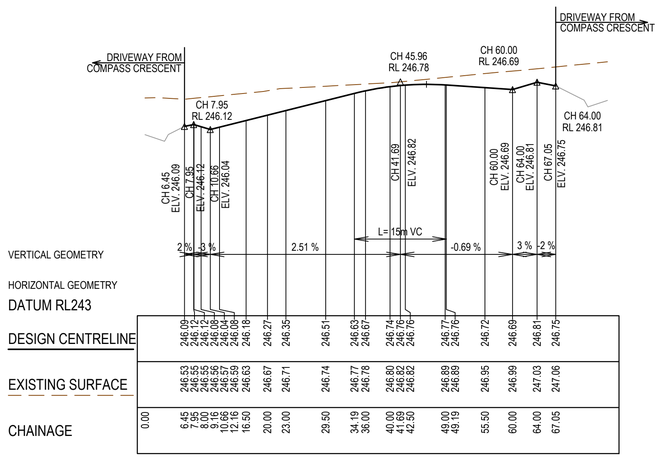
DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-10.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:57:28 AM



LONSDALE PARADE LONGITUDINAL SECTION



HARDWOOD GROVE LONGITUDINAL SECTION



ORBIT LANE LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

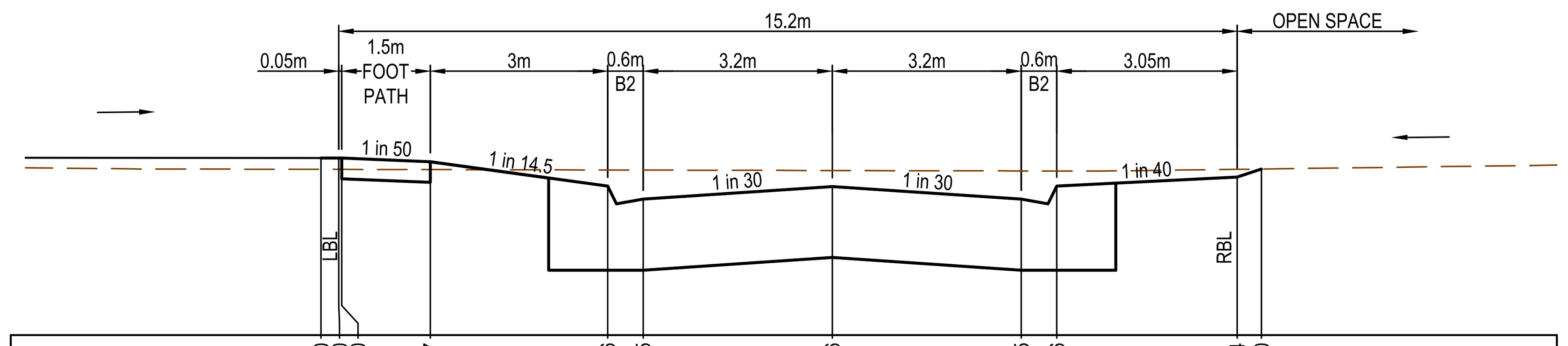
mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 3
Globe Parade and Village Grove

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-11	11 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-11.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:58:07 AM

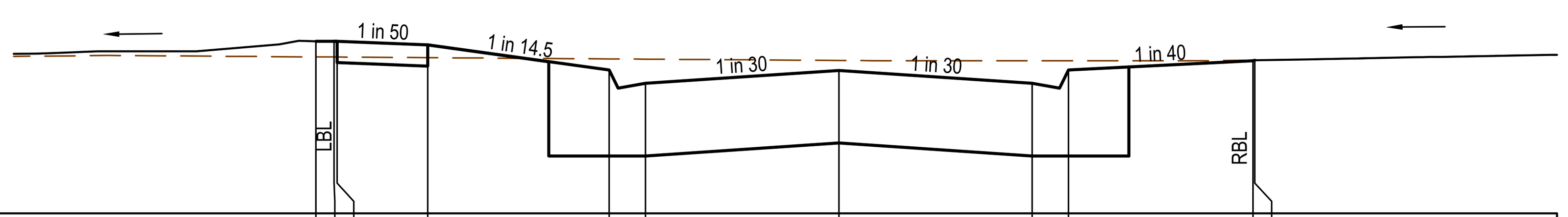
FILLING UNDER FOOTPATHS MUST BE TYPE A SELECTED MATERIAL IN ACCORDANCE WITH VICROADS STANDARD SPECIFICATION 204.



DATUM244.0

DESIGN SURFACE	245.50	245.50	245.50	245.47	245.26	245.15	245.26	245.15	245.26	245.34	245.40
EXISTING SURFACE	245.40	245.40	245.40	245.40	245.40	245.40	245.39	245.39	245.39	245.40	245.40
OFFSET	-8.65	-8.35	-8.30	-6.80	-3.80	-3.20	0.00	3.20	3.80	6.85	7.26

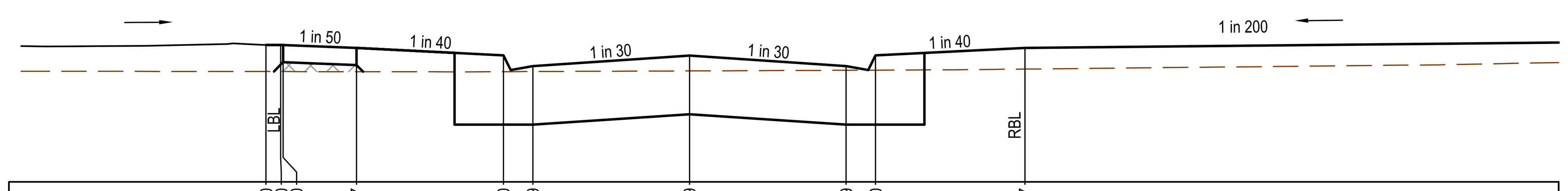
CH 527.52



DATUM244.0

DESIGN SURFACE	245.42	245.42	245.42	245.39	245.19	245.08	245.18	245.08	245.19	245.26	245.27
EXISTING SURFACE	245.29	245.29	245.29	245.29	245.28	245.28	245.26	245.26	245.26	245.27	245.27
OFFSET	-8.65	-8.35	-8.30	-6.80	-3.80	-3.20	0.00	3.20	3.80	6.85	6.88

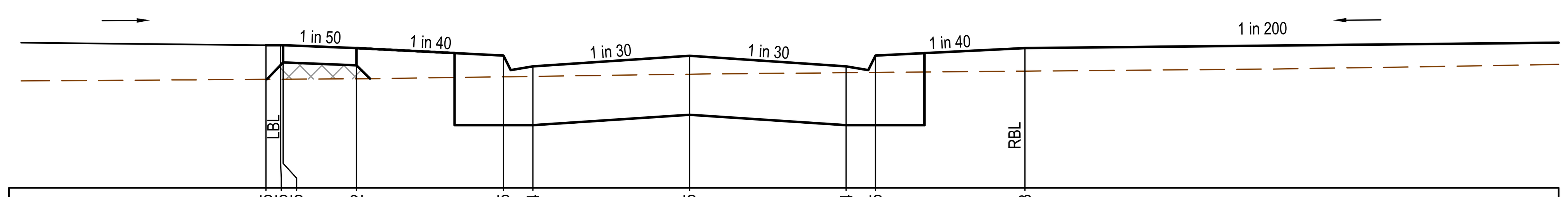
CH 518.49



DATUM244.0

DESIGN SURFACE	245.40	245.40	245.40	245.37	245.30	245.19	245.29	245.19	245.30	245.37
EXISTING SURFACE	245.13	245.13	245.13	245.13	245.13	245.13	245.14	245.14	245.14	245.15
OFFSET	-8.65	-8.35	-8.30	-6.80	-3.80	-3.20	0.00	3.20	3.80	6.85

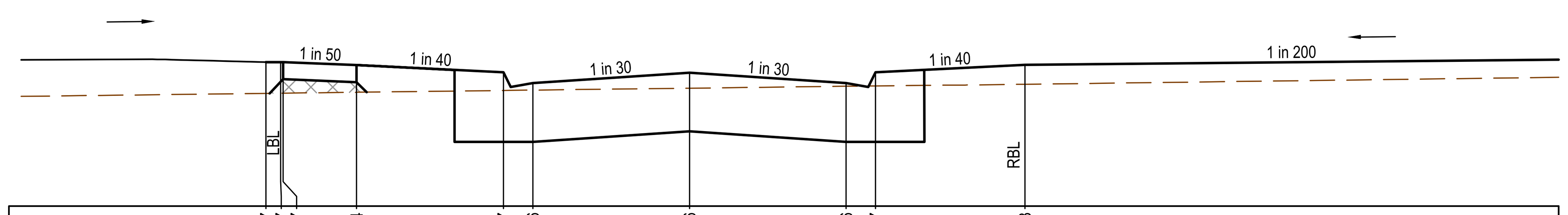
CH 494.78



DATUM244.0

DESIGN SURFACE	245.45	245.45	245.45	245.42	245.35	245.24	245.35	245.24	245.35	245.43
EXISTING SURFACE	245.11	245.11	245.11	245.11	245.13	245.14	245.16	245.17	245.18	245.19
OFFSET	-8.65	-8.35	-8.30	-6.80	-3.80	-3.20	0.00	3.20	3.80	6.85

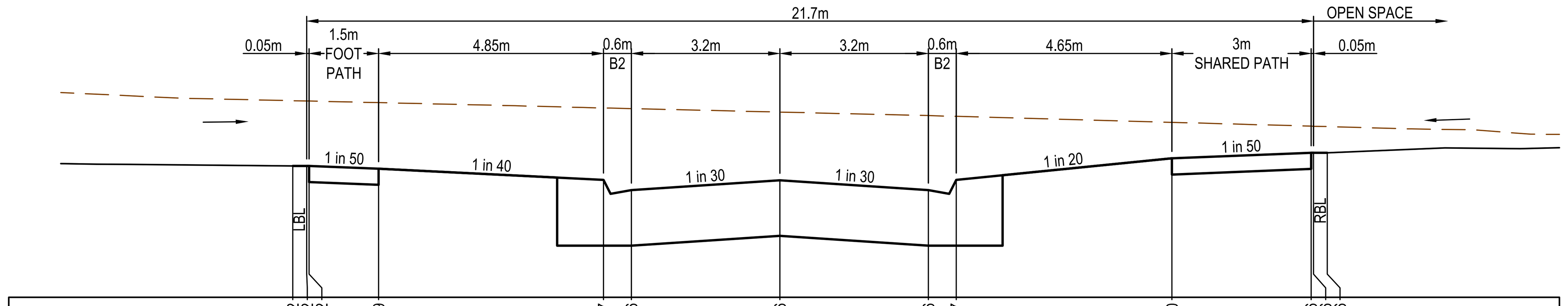
CH 484.65



DATUM244.0

DESIGN SURFACE	245.47	245.47	245.47	245.44	245.37	245.26	245.36	245.26	245.37	245.43
EXISTING SURFACE	245.15	245.15	245.15	245.16	245.18	245.19	245.21	245.23	245.23	245.25
OFFSET	-8.65	-8.35	-8.30	-6.80	-3.80	-3.20	0.00	3.20	3.80	6.85

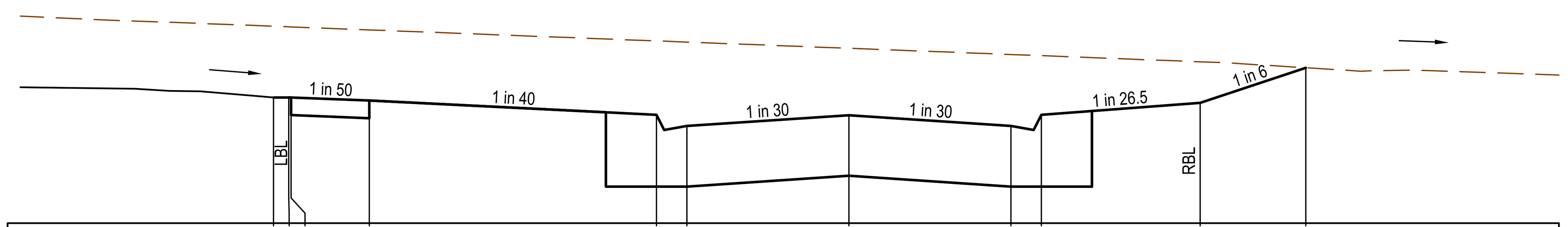
CH 472.69



DATUM245.0

DESIGN SURFACE	246.42	246.42	246.42	246.39	246.27	246.16	246.26	246.16	246.27	246.50	246.56	246.56	246.56
EXISTING SURFACE	247.12	247.12	247.12	247.10	247.04	247.03	247.00	246.96	246.95	246.89	246.84	246.84	246.84
OFFSET	-10.50	-10.20	-10.15	-8.65	-3.80	-3.20	0.00	3.20	3.80	8.45	11.45	11.50	11.80

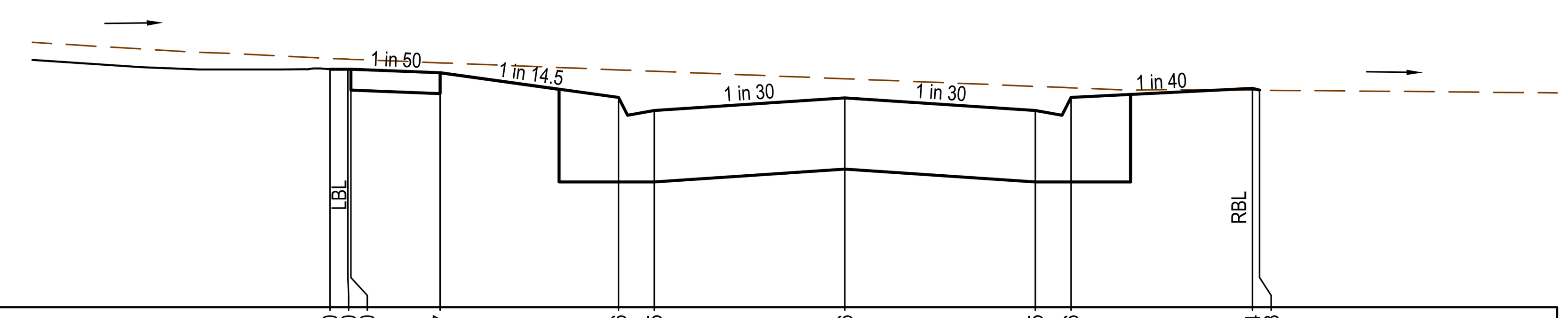
TP CH 602.62



DATUM245.0

DESIGN SURFACE	246.25	246.25	246.25	246.22	246.07	245.96	246.07	245.96	246.07	246.19	246.54
EXISTING SURFACE	246.95	246.95	246.94	246.92	246.81	246.79	246.73	246.67	246.66	246.60	246.54
OFFSET	-11.37	-11.07	-11.02	-9.48	-3.80	-3.20	0.00	3.20	3.80	6.94	9.03

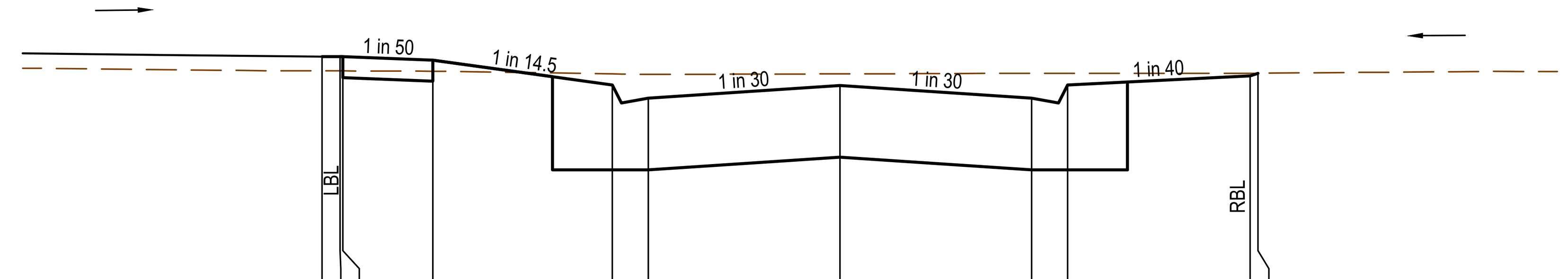
TP CH 583.44



DATUM244.0

DESIGN SURFACE	246.00	246.00	246.00	245.97	245.76	245.65	245.76	245.65	245.76	245.84	245.83
EXISTING SURFACE	246.09	246.09	246.09	246.06	246.00	245.98	245.92	245.86	245.85	245.83	245.83
OFFSET	-8.65	-8.35	-8.30	-6.80	-3.80	-3.20	0.00	3.20	3.80	6.85	6.97

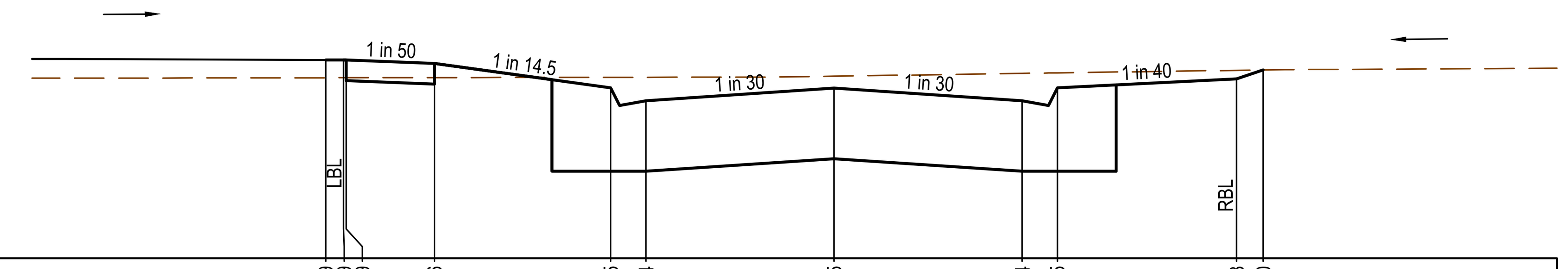
TP CH 560.67



DATUM244.0

DESIGN SURFACE	245.87	245.87	245.87	245.84	245.63	245.52	245.63	245.52	245.63	245.71	245.73
EXISTING SURFACE	245.75	245.75	245.75	245.75	245.73	245.72	245.73	245.73	245.73	245.73	245.73
OFFSET	-8.65	-8.35	-8.30	-6.80	-3.80	-3.20	0.00	3.20	3.80	6.85	6.98

CH 552.11



DATUM244.0

DESIGN SURFACE	245.69	245.69	245.69	245.66	245.45	245.34	245.45	245.34	245.45	245.53	245.60
EXISTING SURFACE	245.54	245.54	245.54	245.54	245.54	245.54	245.55	245.57	245.58	245.60	245.60
OFFSET	-8.65	-8.35	-8.30	-6.80	-3.80	-3.20	0.00	3.20	3.80	6.85	7.30

CH 540.10

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

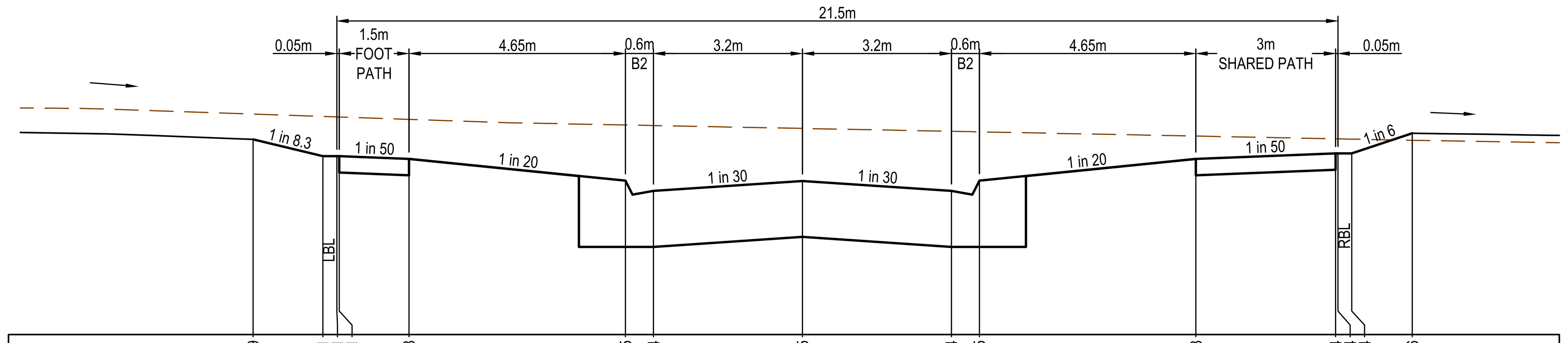
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Cross Sections - Compass Crescent
CH472.69 to 602.62

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-12	12 of 27	1

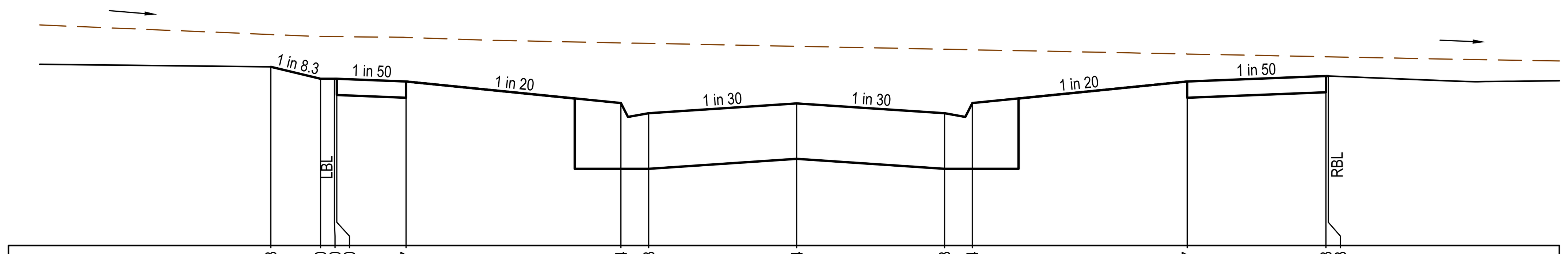
FILLING UNDER FOOTPATHS MUST BE TYPE A SELECTED MATERIAL IN ACCORDANCE WITH VICROADS STANDARD SPECIFICATION 204.



DATUM245.0

DESIGN SURFACE	247.09	246.91	246.91	246.91	246.88	246.65	246.54	246.65	246.54	246.65	246.88	246.94	246.94	246.94	247.16
EXISTING SURFACE	247.36	247.34	247.33	247.33	247.31	247.25	247.24	247.21	247.18	247.17	247.13	247.10	247.10	247.10	247.08
OFFSET	-11.80	-10.30	-10.00	-9.95	-8.45	-3.80	-3.20	0.00	3.20	3.80	8.45	11.45	11.50	11.80	13.10

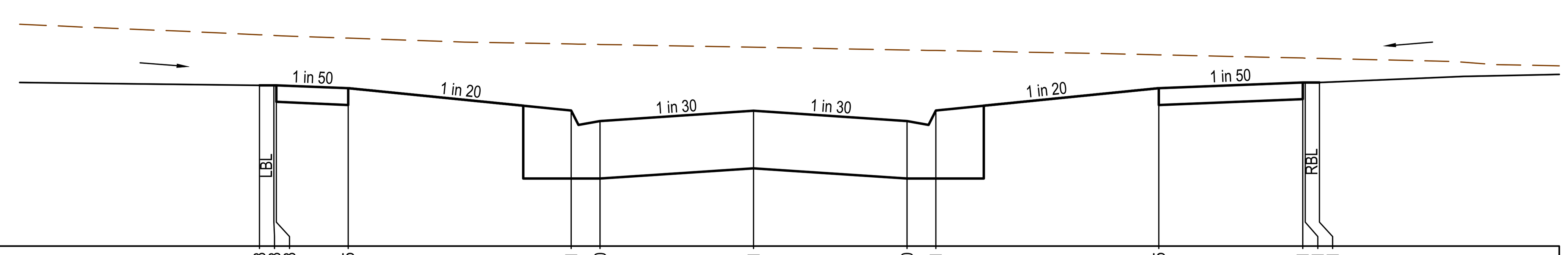
CH 642.57



DATUM245.0

DESIGN SURFACE	246.93	246.80	246.80	246.80	246.77	246.54	246.43	246.54	246.43	246.54	246.77	246.83	246.83
EXISTING SURFACE	247.28	247.26	247.26	247.26	247.25	247.19	247.19	247.15	247.12	247.12	247.07	247.04	247.04
OFFSET	-11.38	-10.30	-10.00	-9.95	-8.45	-3.80	-3.20	0.00	3.20	3.80	8.45	11.45	11.50

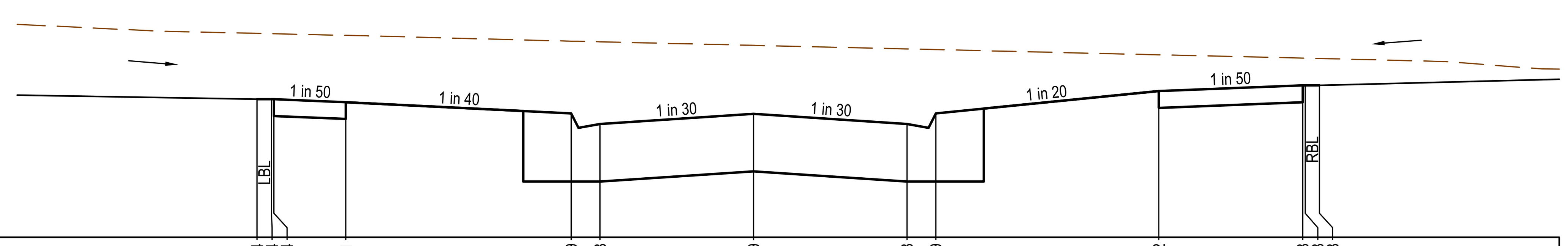
CH 630.07



DATUM245.0

DESIGN SURFACE	246.68	246.68	246.68	246.65	246.41	246.30	246.41	246.30	246.41	246.65	246.71	246.71	246.71
EXISTING SURFACE	247.20	247.20	247.20	247.17	247.11	247.10	247.07	247.05	247.04	247.00	246.96	246.96	246.96
OFFSET	-10.30	-10.00	-9.95	-8.45	-3.80	-3.20	0.00	3.20	3.80	8.45	11.45	11.50	11.80

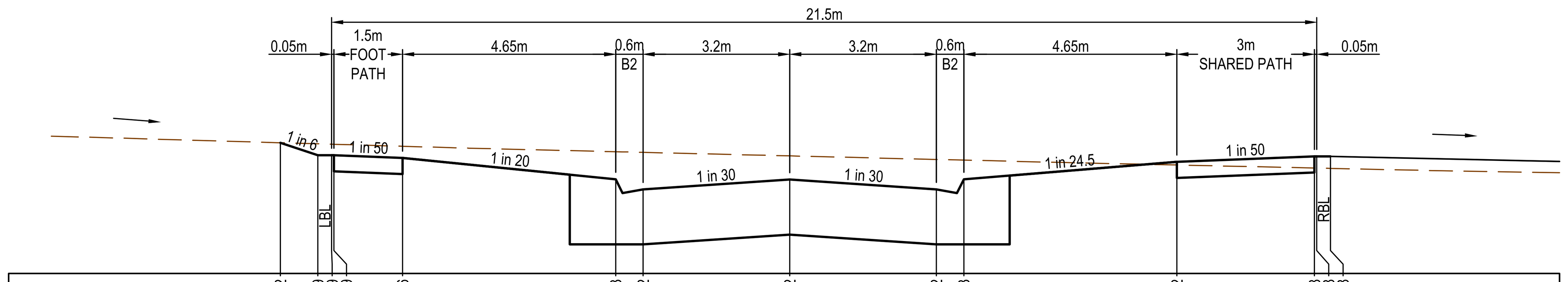
CH 617.57



DATUM245.0

DESIGN SURFACE	246.44	246.44	246.44	246.41	246.29	246.18	246.29	246.18	246.29	246.52	246.58	246.58	246.58
EXISTING SURFACE	247.12	247.12	247.12	247.10	247.04	247.04	247.00	246.96	246.95	246.90	246.87	246.86	246.86
OFFSET	-10.35	-10.05	-10.00	-8.50	-3.80	-3.20	0.00	3.20	3.80	8.45	11.45	11.50	11.80

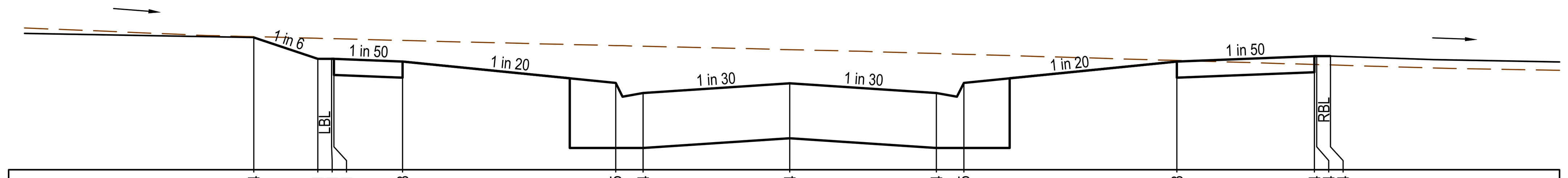
CH 605.07



DATUM246.0

DESIGN SURFACE	247.42	247.29	247.29	247.29	247.26	247.03	246.92	247.02	246.92	247.03	247.22	247.28	247.28	247.28
EXISTING SURFACE	247.42	247.41	247.41	247.41	247.39	247.33	247.32	247.28	247.24	247.24	247.18	247.15	247.15	247.15
OFFSET	-11.12	-10.30	-10.00	-9.95	-8.45	-3.80	-3.20	0.00	3.20	3.80	8.45	11.45	11.50	11.80

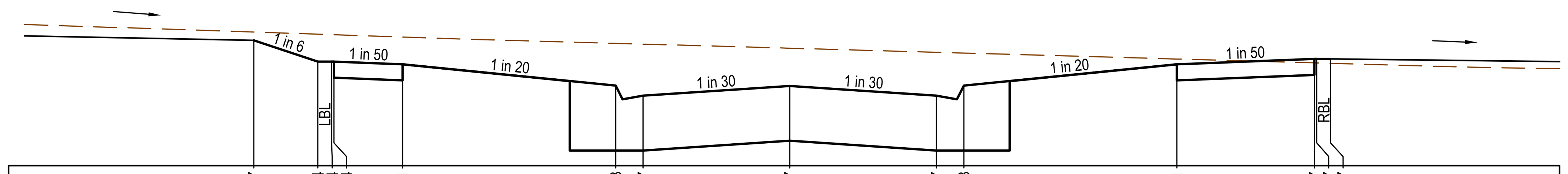
CH 715.82



DATUM246.0

DESIGN SURFACE	247.44	247.21	247.21	247.21	247.18	246.95	246.84	246.94	246.84	246.95	247.18	247.24	247.24	247.24
EXISTING SURFACE	247.45	247.43	247.43	247.43	247.41	247.35	247.35	247.31	247.27	247.26	247.19	247.15	247.15	247.14
OFFSET	-11.70	-10.30	-10.00	-9.95	-8.45	-3.80	-3.20	0.00	3.20	3.80	8.45	11.45	11.50	11.80

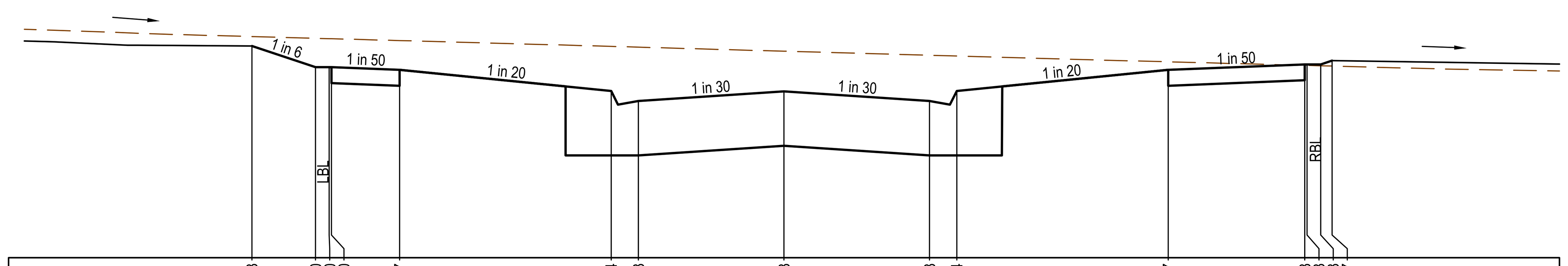
CH 699.82



DATUM246.0

DESIGN SURFACE	247.37	247.14	247.14	247.14	247.11	246.88	246.77	246.87	246.77	246.88	247.11	247.17	247.17	247.17
EXISTING SURFACE	247.46	247.44	247.43	247.43	247.41	247.34	247.33	247.29	247.24	247.23	247.17	247.13	247.12	247.12
OFFSET	-11.70	-10.30	-10.00	-9.95	-8.45	-3.80	-3.20	0.00	3.20	3.80	8.45	11.45	11.50	11.80

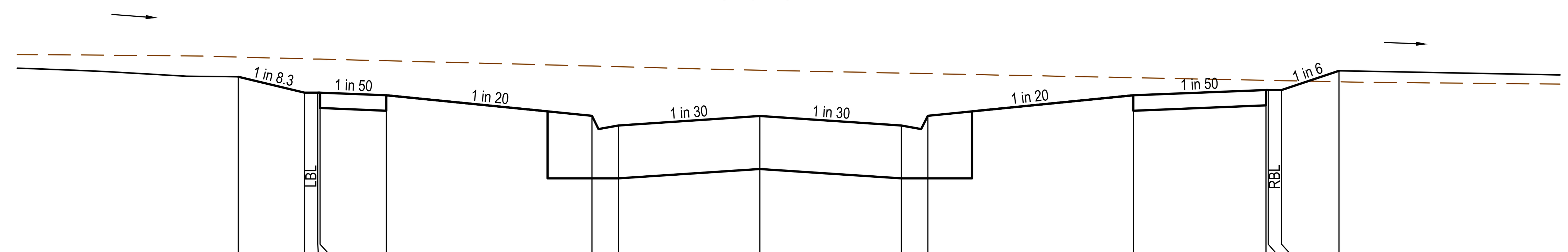
CH 685.82



DATUM245.0

DESIGN SURFACE	247.33	247.10	247.10	247.10	247.07	246.84	246.73	246.83	246.73	246.84	247.07	247.13	247.13	247.13	247.17
EXISTING SURFACE	247.43	247.42	247.41	247.41	247.39	247.33	247.32	247.27	247.23	247.22	247.16	247.12	247.12	247.11	247.11
OFFSET	-11.70	-10.30	-10.00	-9.95	-8.45	-3.80	-3.20	0.00	3.20	3.80	8.45	11.45	11.50	11.80	12.05

CH 677.62



DATUM245.0

DESIGN SURFACE	247.15	246.97	246.97	246.97	246.94	246.71	246.60	246.70	246.60	246.71	246.94	247.00	247.00	247.00	247.22
EXISTING SURFACE	247.37	247.35	247.35	247.35	247.33	247.27	247.26	247.22	247.19	247.19	247.14	247.11	247.11	247.11	247.09
OFFSET	-11.80	-10.30	-10.00	-9.95	-8.45	-3.80	-3.20	0.00	3.20	3.80	8.45	11.45	11.50	11.80	13.10

TP CH 652.02

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

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

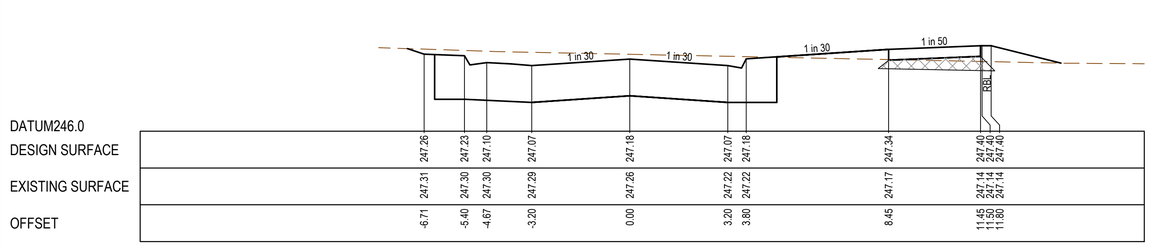
mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Cross Sections - Compass Crescent
CH605.07 to 715.82

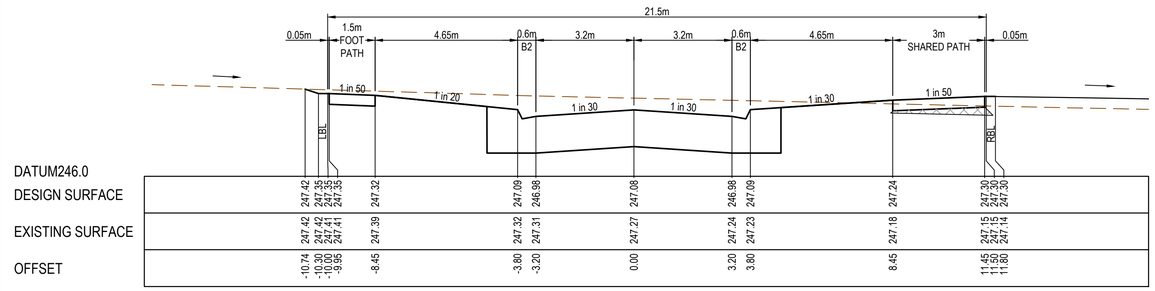
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-13	13 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-13.dwg PRINTED BY: BK15730 on 23/04/2021 at 09:59:25 AM

FILLING UNDER FOOTPATHS MUST BE TYPE A SELECTED MATERIAL IN ACCORDANCE WITH VICROADS STANDARD SPECIFICATION 204.

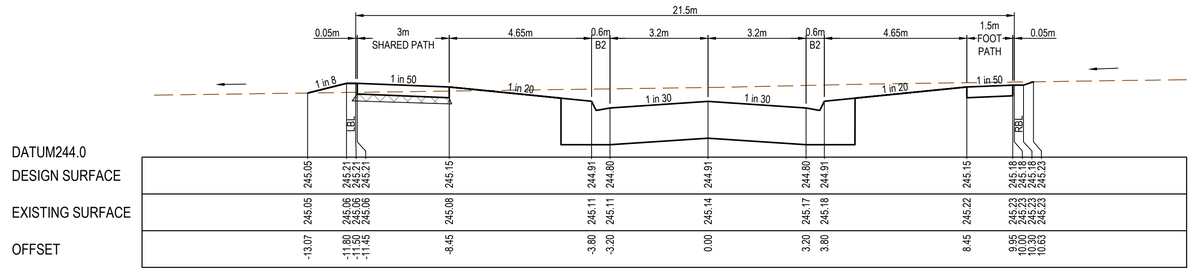


CH 746.82

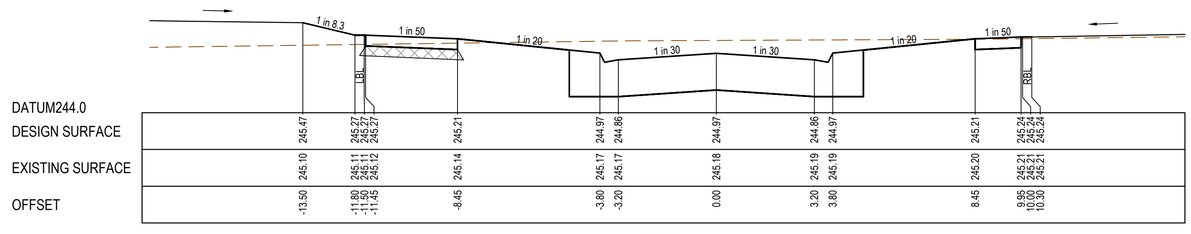


CH 728.00

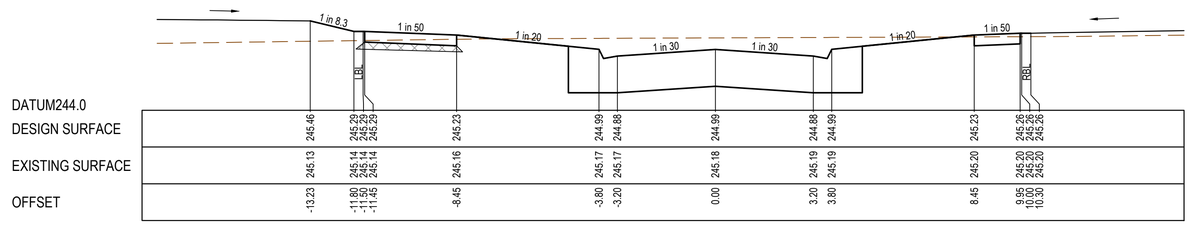
CROSS SECTION - COMPASS CRESCENT



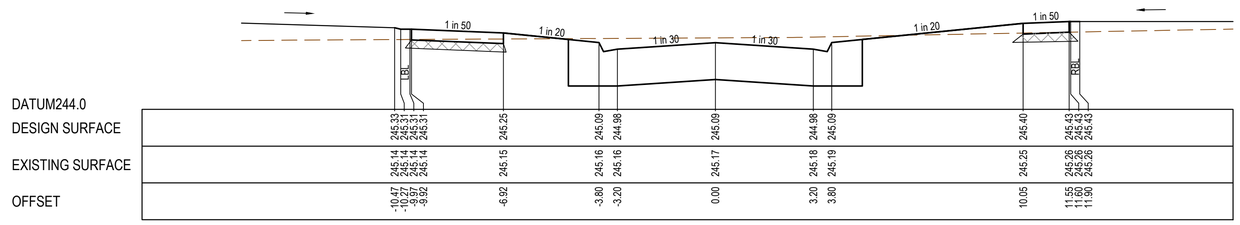
CH 46.41



CH 34.41



TP CH 30.09



TP CH 10.64

CROSS SECTIONS - WILLOWMEAD BOULEVARD

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

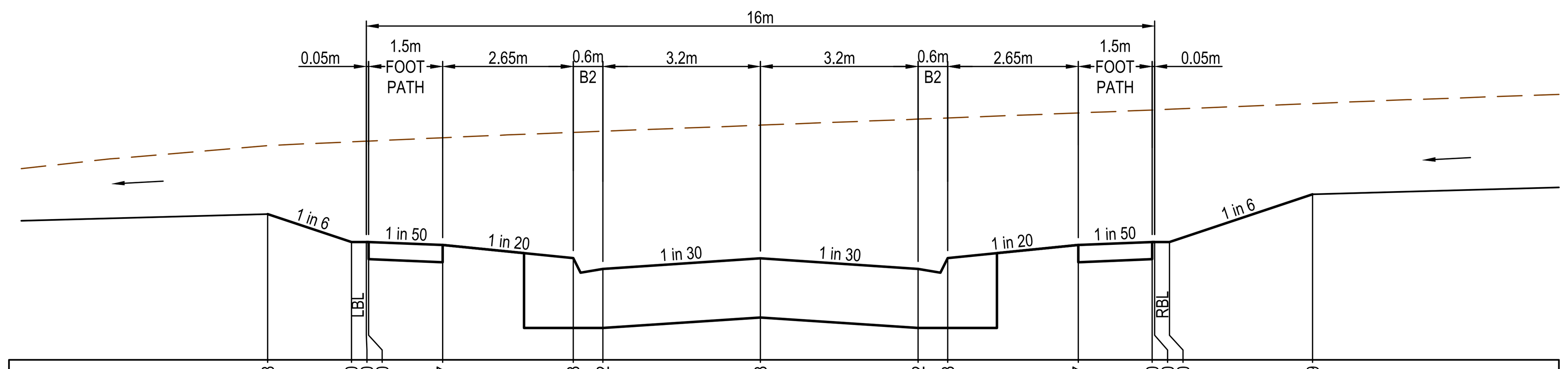
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Cross Sections - Compass Crescent CH728.00 and Willowmead Boulevard

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-14	14 of 27	1

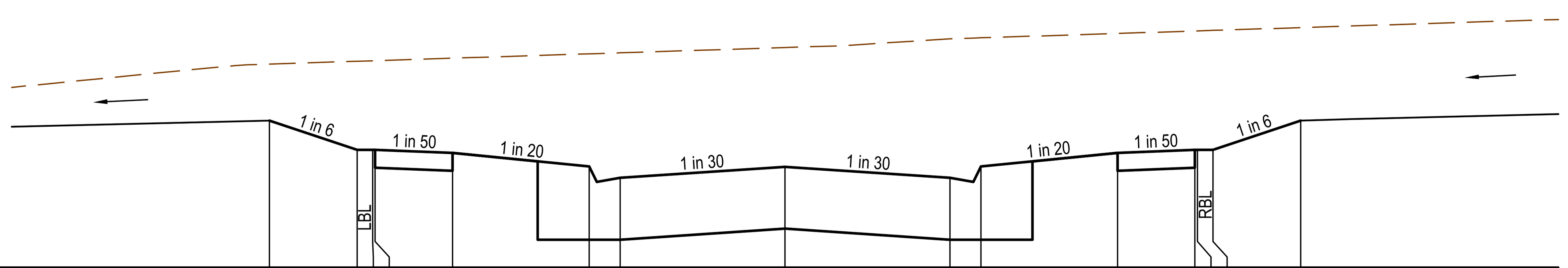
FILLING UNDER FOOTPATHS MUST BE TYPE A SELECTED MATERIAL IN ACCORDANCE WITH VICROADS STANDARD SPECIFICATION 204.



DATUM245.0

DESIGN SURFACE	246.48	246.20	246.20	246.20	246.17	246.03	245.92	246.03	245.92	246.03	246.17	246.20	246.20	246.20	246.69
EXISTING SURFACE	247.17	247.21	247.22	247.22	247.25	247.31	247.32	247.38	247.44	247.46	247.51	247.54	247.54	247.54	247.60
OFFSET	-10.00	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	11.20

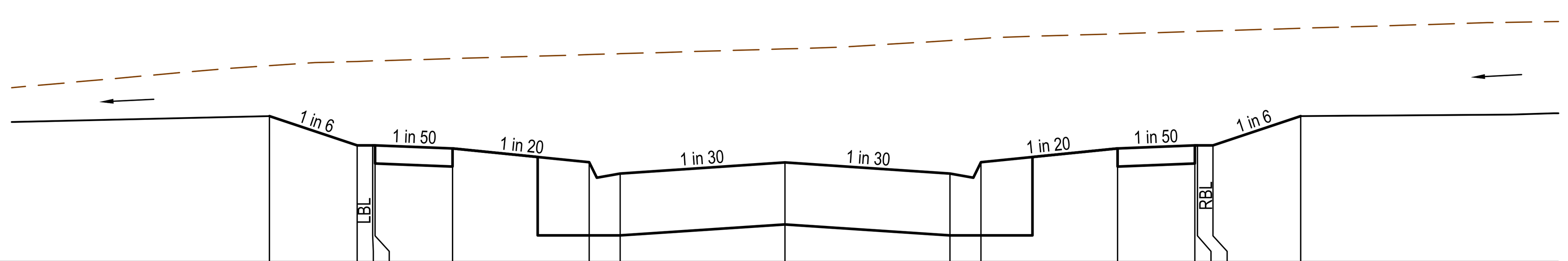
CH 40.58



DATUM245.0

DESIGN SURFACE	246.42	246.14	246.14	246.14	246.11	245.98	245.87	245.97	245.87	245.98	246.11	246.14	246.14	246.14	246.42
EXISTING SURFACE	246.97	247.00	247.00	247.00	247.03	247.07	247.08	247.13	247.22	247.23	247.27	247.29	247.29	247.30	247.29
OFFSET	-10.00	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	10.00

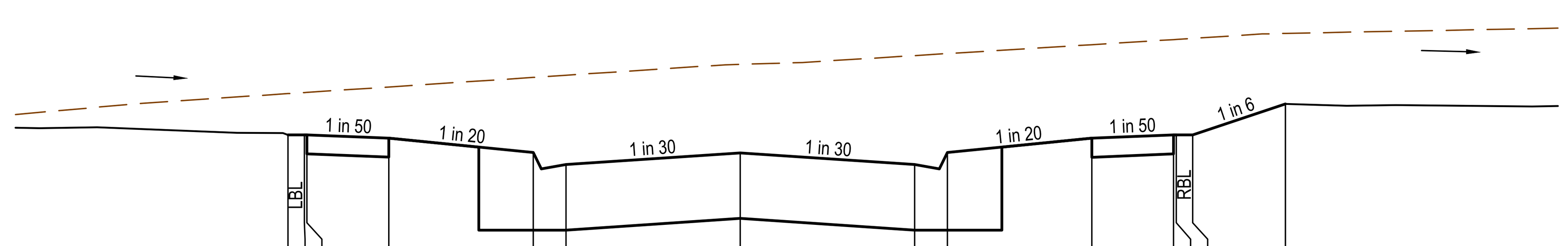
CH 29.36



DATUM245.0

DESIGN SURFACE	246.41	246.13	246.13	246.13	246.10	245.96	245.85	245.96	245.85	245.96	246.10	246.13	246.13	246.13	246.41
EXISTING SURFACE	246.90	246.94	246.95	246.95	246.97	247.01	247.02	247.06	247.14	247.16	247.21	247.23	247.23	247.24	247.26
OFFSET	-10.00	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	10.00

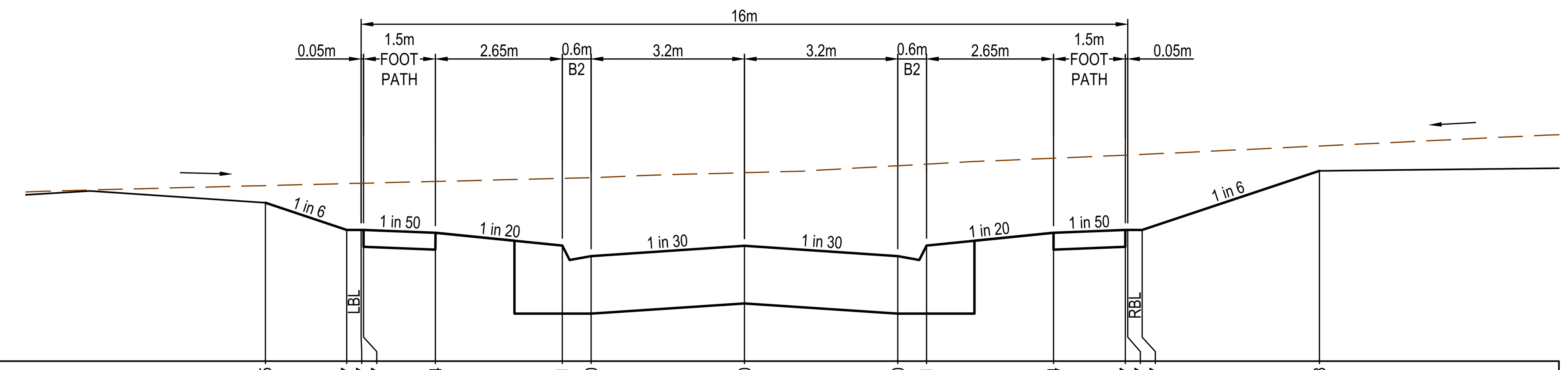
TP CH 26.87



DATUM245.0

DESIGN SURFACE	246.05	246.05	246.05	246.02	245.89	245.78	245.89	245.78	245.89	246.02	246.05	246.05	246.05	246.34
EXISTING SURFACE	246.43	246.44	246.44	246.49	246.58	246.60	246.70	246.78	246.80	246.88	246.93	246.93	246.94	246.98
OFFSET	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	10.00

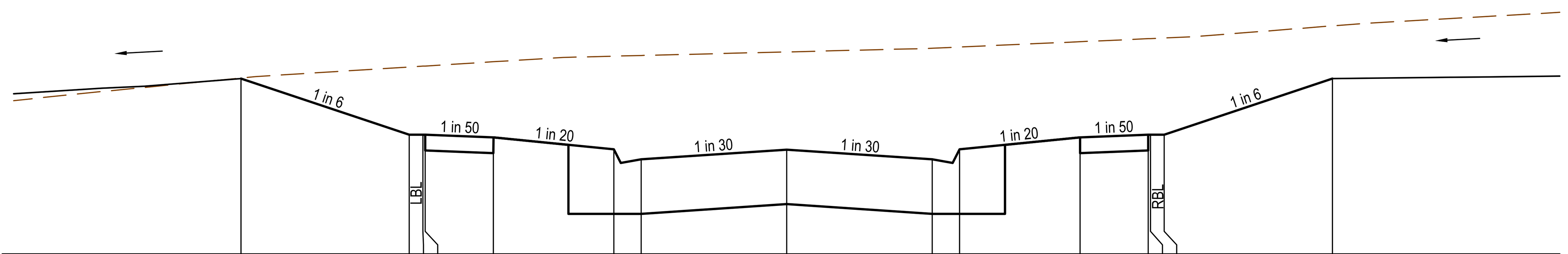
CH 14.00



DATUM245.0

DESIGN SURFACE	246.65	246.37	246.37	246.37	246.34	246.21	246.10	246.20	246.10	246.21	246.34	246.37	246.37	246.37	246.98
EXISTING SURFACE	246.83	246.85	246.85	246.86	246.87	246.91	246.91	246.97	247.04	247.05	247.12	247.15	247.15	247.16	247.24
OFFSET	-10.00	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	12.00

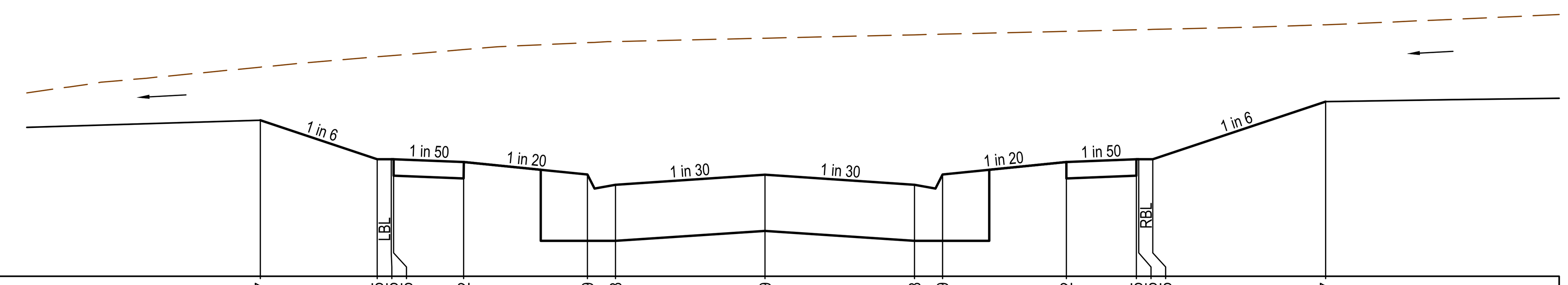
TP 75.02



DATUM245.0

DESIGN SURFACE	246.93	246.31	246.31	246.31	246.28	246.15	246.04	246.15	246.04	246.15	246.28	246.31	246.31	246.31	246.93
EXISTING SURFACE	246.94	247.06	247.07	247.07	247.12	247.18	247.19	247.23	247.27	247.28	247.34	247.37	247.37	247.38	247.51
OFFSET	-12.00	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	12.00

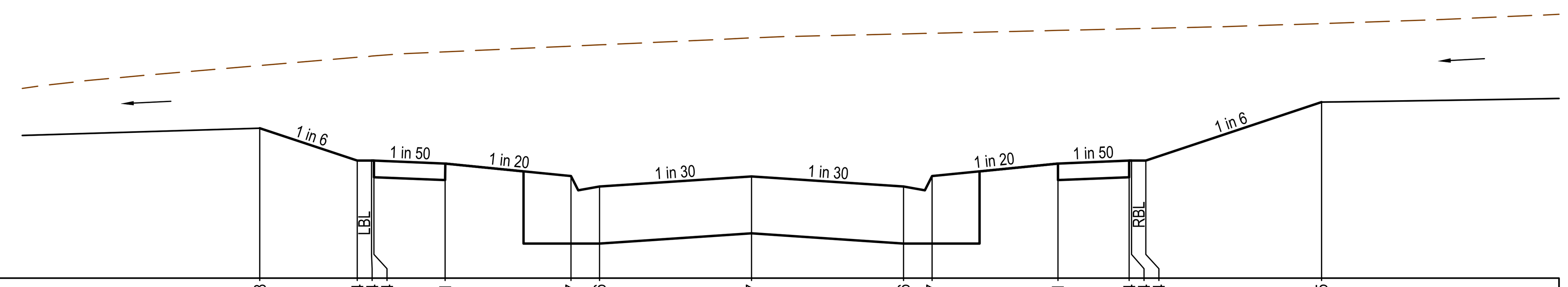
CH 64.32



DATUM245.0

DESIGN SURFACE	246.67	246.25	246.25	246.25	246.22	246.09	245.98	246.09	245.98	246.09	246.22	246.25	246.25	246.25	246.87
EXISTING SURFACE	247.24	247.35	247.36	247.36	247.42	247.50	247.51	247.55	247.58	247.59	247.62	247.64	247.64	247.64	247.69
OFFSET	-10.80	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	12.00

CH 51.82



DATUM245.0

DESIGN SURFACE	246.58	246.24	246.24	246.24	246.21	246.07	245.96	246.07	245.96	246.07	246.21	246.24	246.24	246.24	246.85
EXISTING SURFACE	247.24	247.33	247.34	247.34	247.38	247.44	247.46	247.53	247.57	247.58	247.61	247.63	247.63	247.63	247.68
OFFSET	-10.35	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	12.00

TP CH 48.76

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

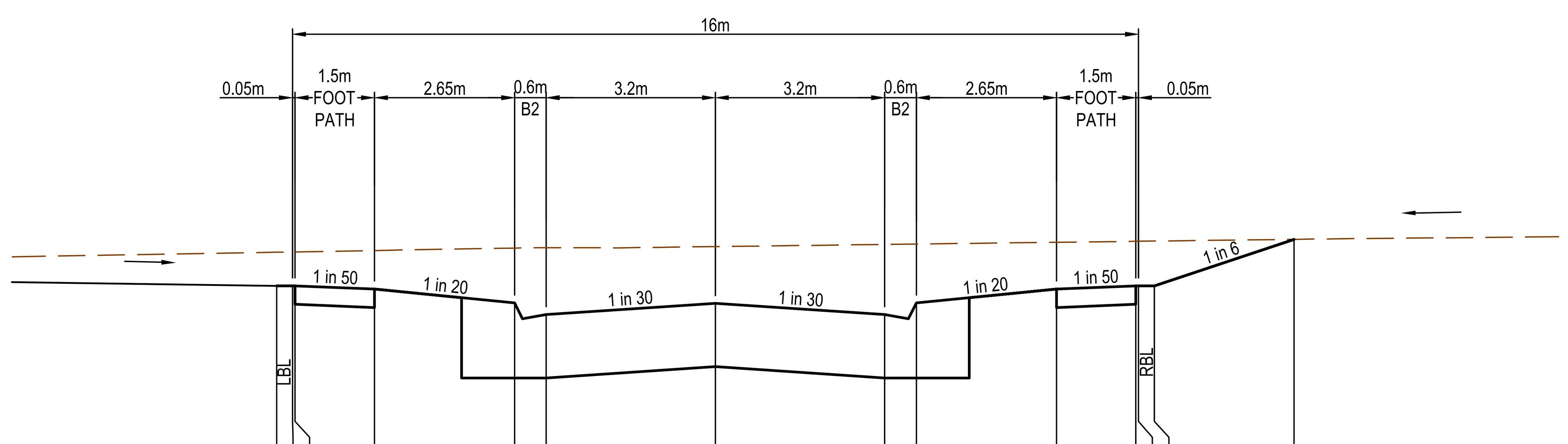
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Cross Sections - Daybook Terrace
CH14.00 to 75.02

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-15	15 of 27	1

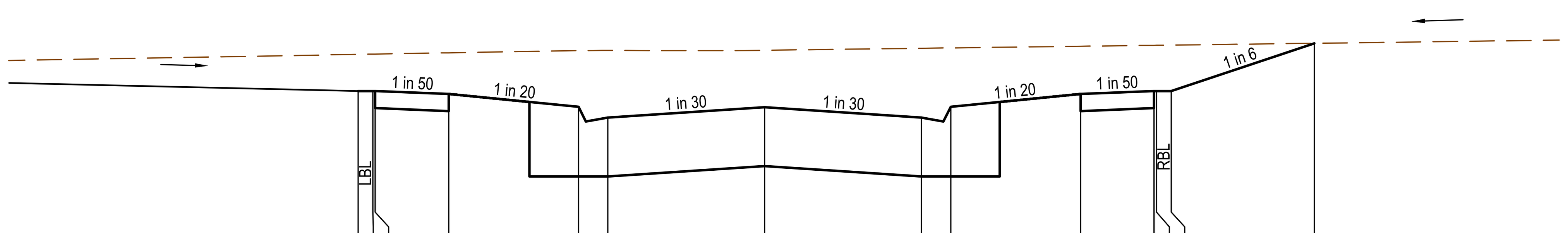
FILLING UNDER FOOTPATHS MUST BE TYPE A SELECTED MATERIAL IN ACCORDANCE WITH VICROADS STANDARD SPECIFICATION 204.



DATUM245.0

DESIGN SURFACE	246.52	246.52	246.52	246.50	246.37	246.26	246.37	246.26	246.37	246.50	246.52	246.52	246.52	246.97
EXISTING SURFACE	246.86	246.86	246.86	246.87	246.89	246.89	246.90	246.93	246.93	246.95	246.95	246.95	246.95	246.97
OFFSET	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	10.94

CH 108.07

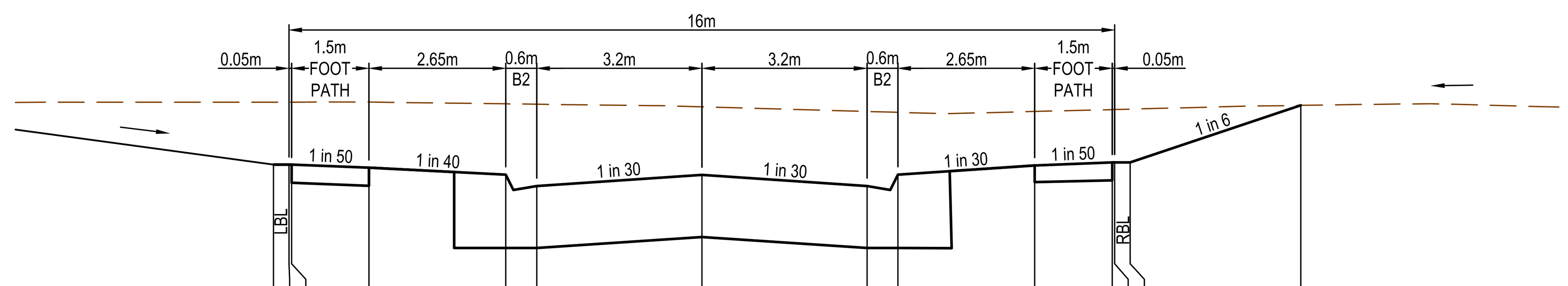


DATUM245.0

DESIGN SURFACE	246.49	246.49	246.49	246.46	246.32	246.21	246.32	246.21	246.32	246.46	246.49	246.49	246.49	246.97
EXISTING SURFACE	246.86	246.86	246.86	246.88	246.90	246.90	246.90	246.92	246.93	246.94	246.95	246.95	246.95	246.97
OFFSET	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	11.22

TP CH 98.62

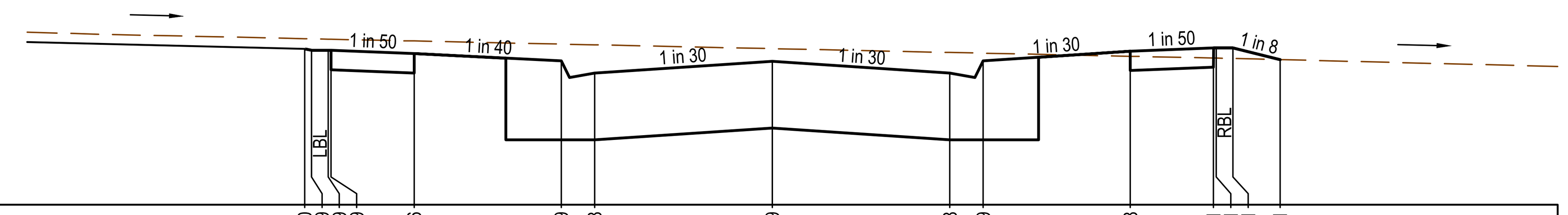
CROSS SECTION - DAYBOOK TERRACE



DATUM245.0

DESIGN SURFACE	246.21	246.21	246.21	246.18	246.11	246.00	246.11	246.00	246.11	246.20	246.23	246.23	246.23	246.78
EXISTING SURFACE	246.81	246.81	246.81	246.81	246.80	246.79	246.77	246.72	246.71	246.72	246.74	246.74	246.75	246.78
OFFSET	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	11.61

CH 732.86



DATUM245.0

DESIGN SURFACE	246.40	246.39	246.39	246.39	246.36	246.29	246.18	246.29	246.18	246.29	246.38	246.41	246.41	246.41	246.31
EXISTING SURFACE	246.49	246.49	246.49	246.49	246.47	246.45	246.44	246.40	246.37	246.36	246.34	246.32	246.32	246.32	246.31
OFFSET	-8.42	-8.30	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95	8.00	8.30	9.15

CH 710.66

CROSS SECTIONS - HARDWOOD GROVE

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

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

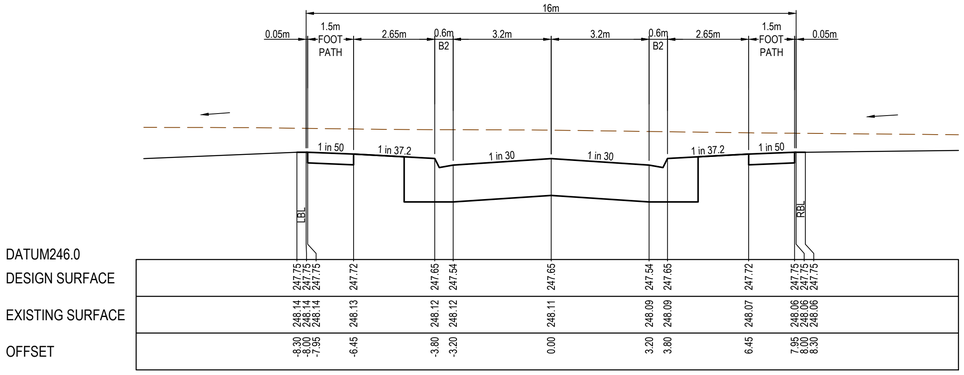
mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Cross Sections - Daybook Terrace CH98.62 to 108.07 and Hardwood Grove

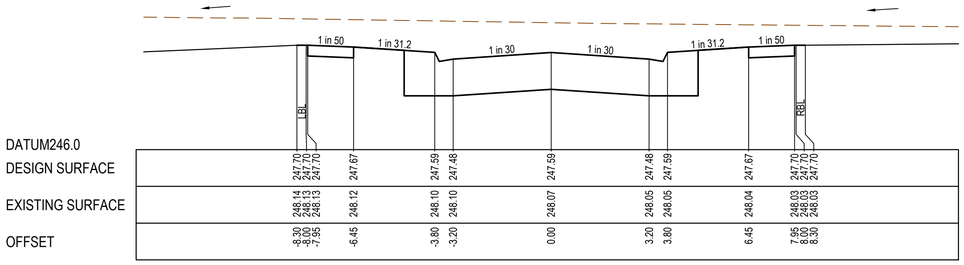
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-16	16 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-16.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:05:27 AM

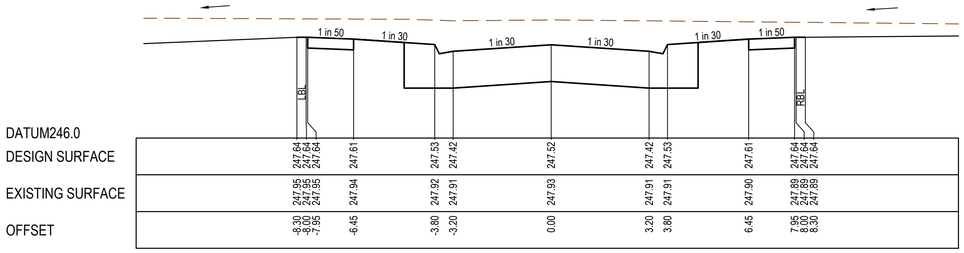
FILLING UNDER FOOTPATHS MUST BE TYPE A SELECTED MATERIAL IN ACCORDANCE WITH VICROADS STANDARD SPECIFICATION 204.



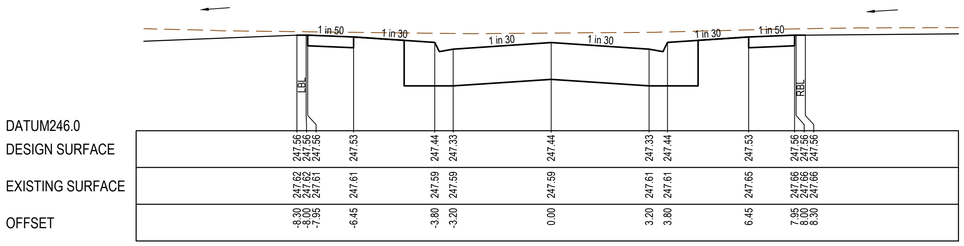
CH 69.50



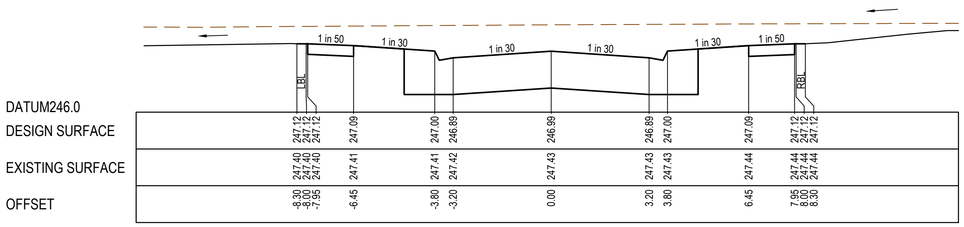
CH 57.00



CH 44.50

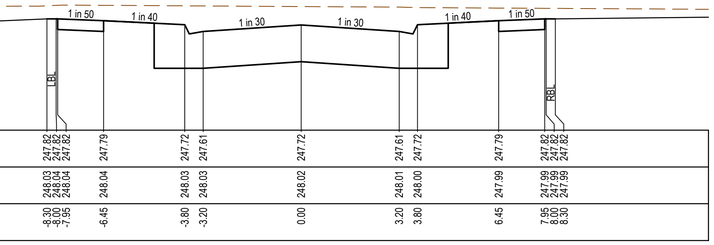


CH 32.00



CH 13.00

CH 97.50



CH 83.50

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

SMEC
Member of the Surbana Jurong Group

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

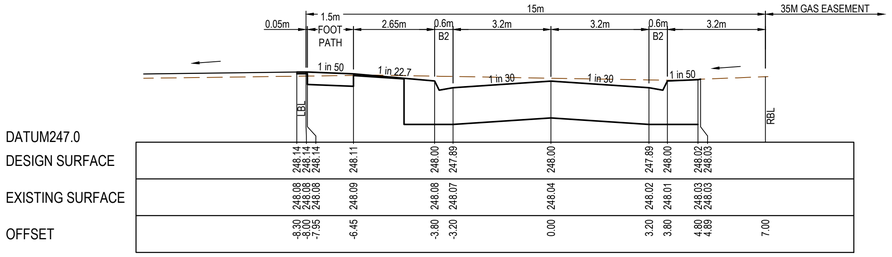
mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Cross Sections - Silver Street

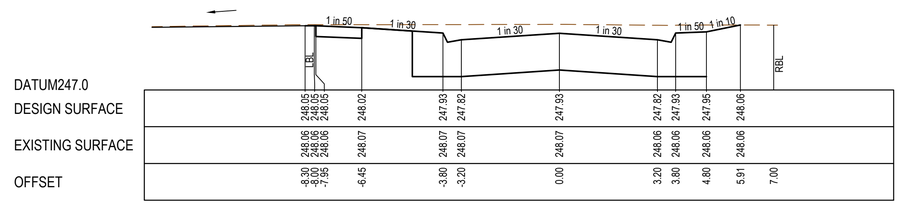
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-17	17 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-17.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:06:06 AM

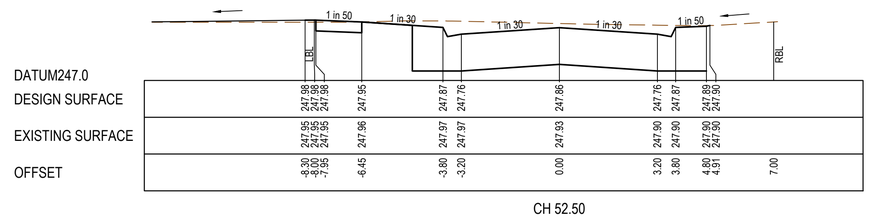
FILLING UNDER FOOTPATHS MUST BE TYPE A SELECTED MATERIAL IN ACCORDANCE WITH VICROADS STANDARD SPECIFICATION 204.



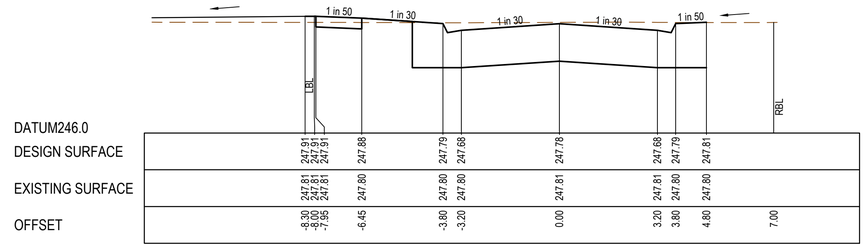
CH 79.00



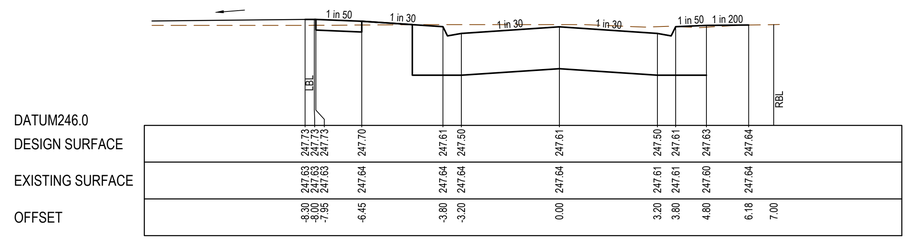
CH 65.00



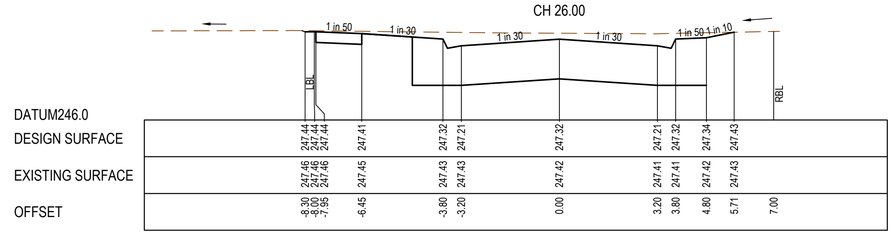
CH 52.50



CH 40.00

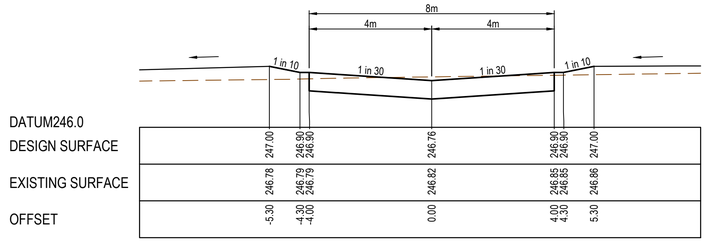


CH 26.00

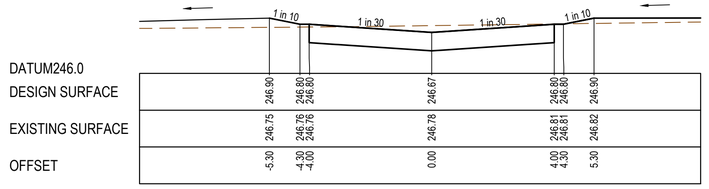


CH 13.00

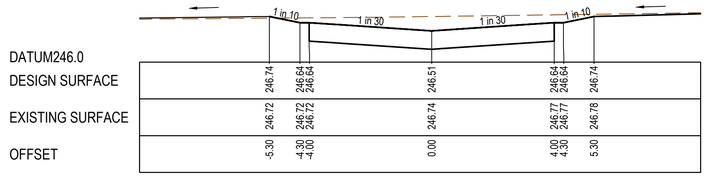
CROSS SECTIONS - LONSDALE PARADE



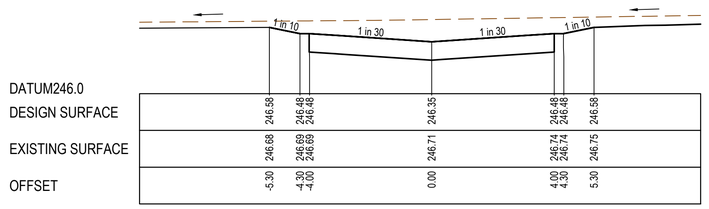
CH 42.50



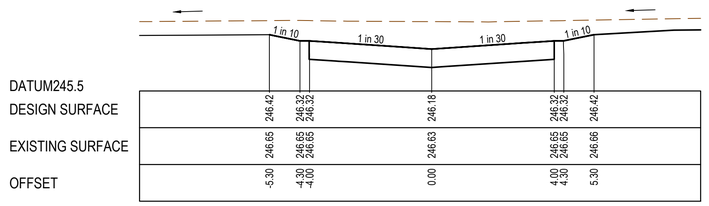
CH 36.00



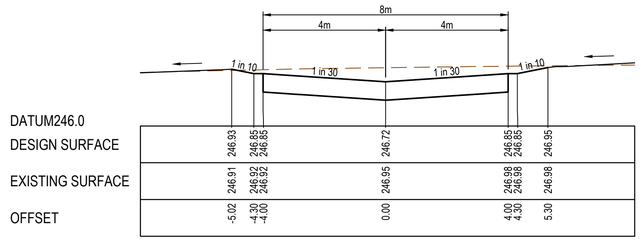
CH 29.50



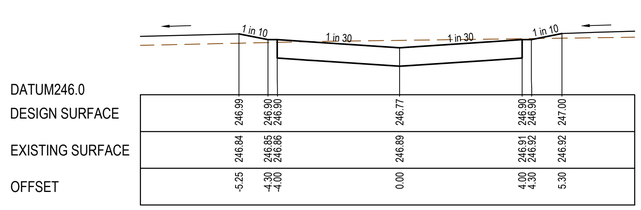
CH 23.00



CH 16.50



CH 55.50



CH 49.00

CROSS SECTIONS - ORBIT LANE

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

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

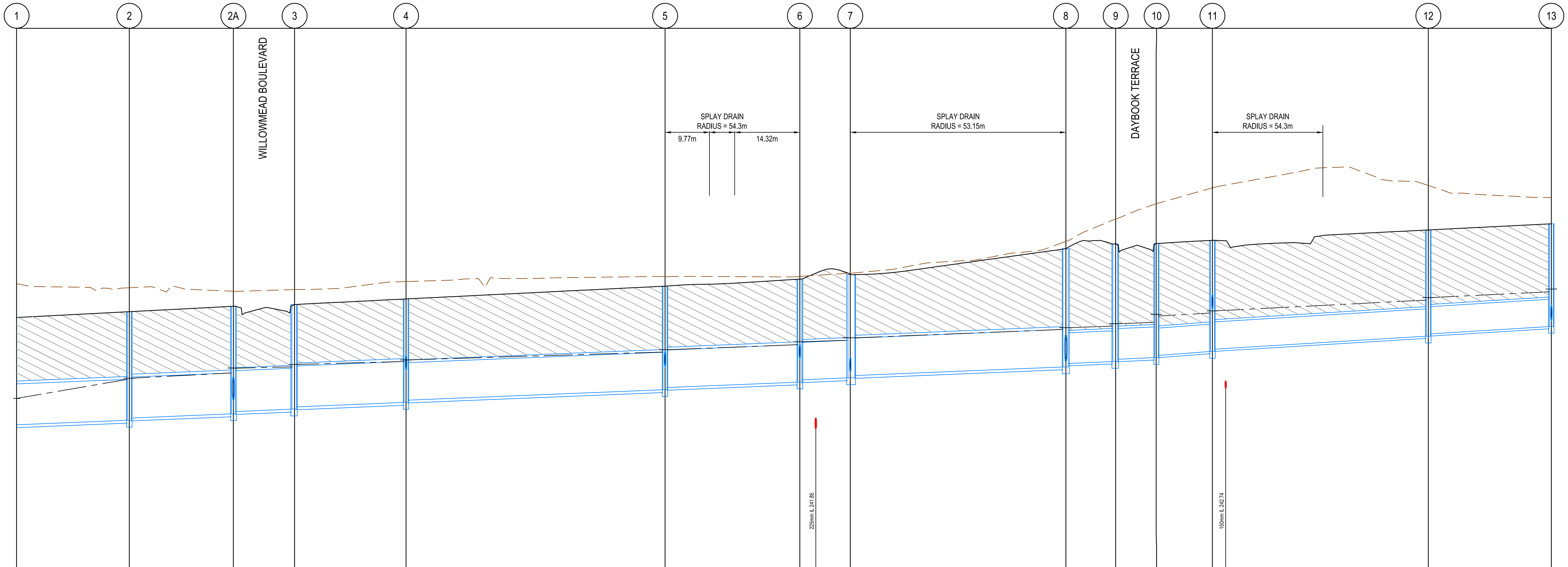
mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Cross Sections - Lonsdale Parade and Orbit Lane

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-18	18 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-18.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:06:48 AM

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



Reach	DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	NOMINAL PIPE SIZE (mm)	PIPE TYPE	GRADE	(Reach Length)
1–2	0.961	1.145	1.8	900Ø	RCP	1 in 250	(24.78)
2–2A	0.966	1.145	1.8	900Ø	RCP	1 in 250	(22.88)
2A–3	0.843	1.145	1.8	900Ø	RCP	1 in 250	(13.46)
3–4	0.848	1.145	1.8	900Ø	RCP	1 in 250	(24.51)
4–5	0.793	0.908	1.7	825Ø	RCP	1 in 250	(56.95)
5–6	0.772	0.908	1.7	825Ø	RCP	1 in 250	(29.64)
6–7	0.763	0.908	1.7	825Ø	RCP	1 in 250	(11.10)
7–8	0.741	0.908	1.7	825Ø	RCP	1 in 250	(47.40)
8–9	0.472	0.532	1.49	675Ø	RCP	1 in 250	(10.96)
9–10	0.461	0.532	1.49	675Ø	RCP	1 in 250	(8.92)
10–11	0.456	0.514	1.82	600Ø	RCP	1 in 143	(12.36)
11–12	0.435	0.477	1.69	600Ø	RCP	1 in 166	(47.47)
12–13	0.423	0.476	1.68	600Ø	RCP	1 in 167	(27.05)

DATUM 237.0

Pit	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE
1	2.36 / 2.36	242.51	241.93 / 241.93	244.29	245.03	0.00
2	2.39 / 2.44	242.93 / 242.95	242.03 / 242.08	244.42	244.94	24.78
2A	2.37 / 2.32	243.07 / 243.18	242.17 / 242.22	244.53	244.86	47.66
3	2.30 / 2.25	243.20 / 243.25	242.27 / 242.32	244.57	244.90	61.12
4	2.28 / 2.23	243.32 / 243.35	242.42 / 242.47	244.70	245.08	85.63
5	2.28 / 2.23	243.53 / 243.58	242.70 / 242.75	244.98	245.19	142.58
6	2.27 / 2.22	243.69 / 243.75	242.87 / 242.92 242.93	245.13	245.19	172.22
						175.73
7	2.27 / 2.22	243.78 / 243.84	242.96 / 243.01	245.23	245.26	183.33
8	2.60 / 2.53	244.02 / 244.06	243.20 / 243.27	245.80	245.96	230.72
9	2.59 / 2.54	244.10 / 244.15	243.32 / 243.37	245.91	246.45	241.68
10	2.51 / 2.46	244.18 / 244.36 244.32	243.40 / 243.45	245.92	246.79	250.60
11	2.44 / 2.39	244.39 / 244.43	243.54 / 243.59	245.98	247.14	262.95
			243.61			265.87
12	2.34 / 2.29	244.67 / 244.72	243.88 / 243.93	246.21	247.19	310.43
13	2.26	244.85 / 244.91	244.09	246.35	246.93	337.48

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

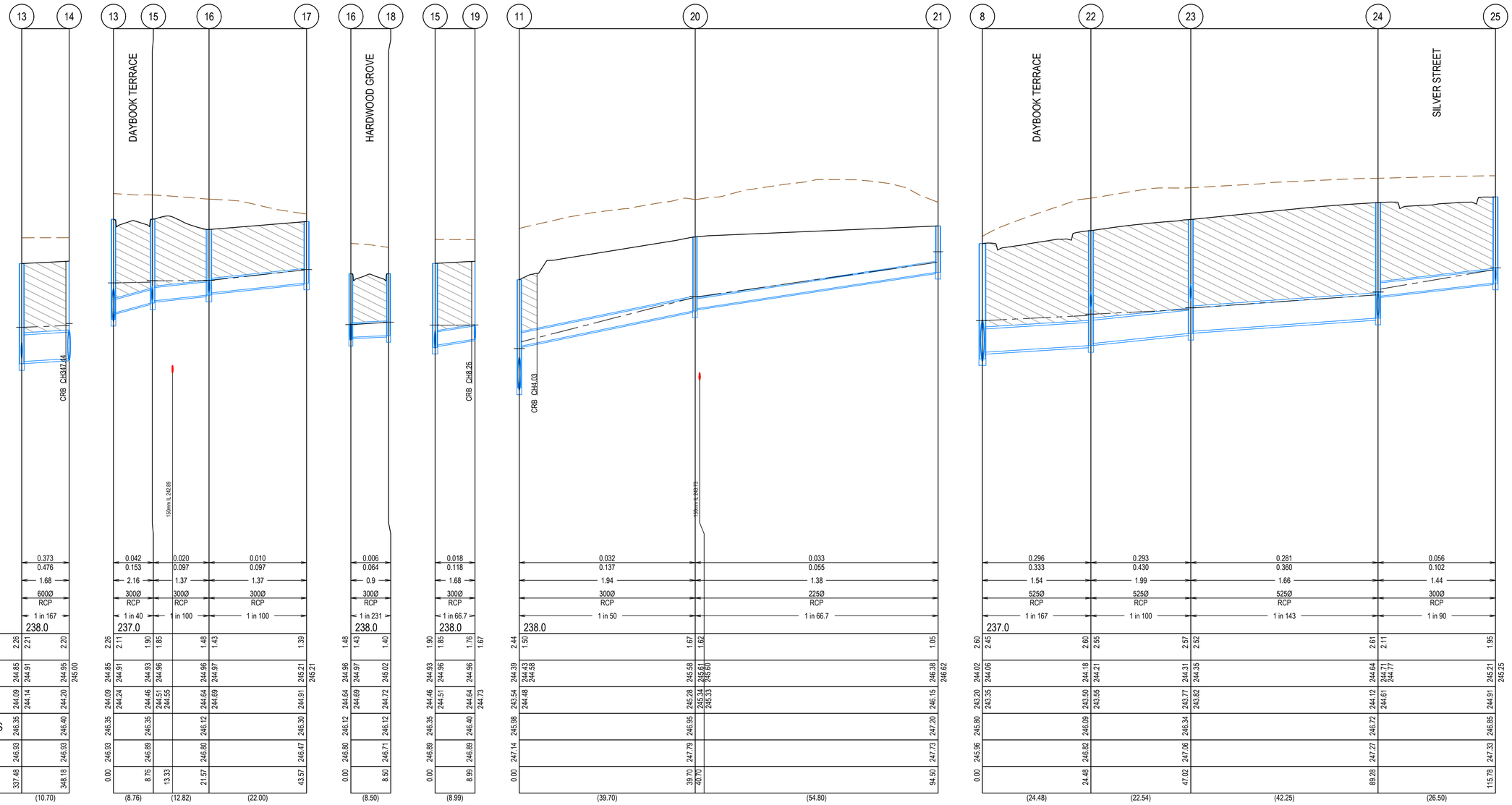
mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-19	19 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-19.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:07:24 AM

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



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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

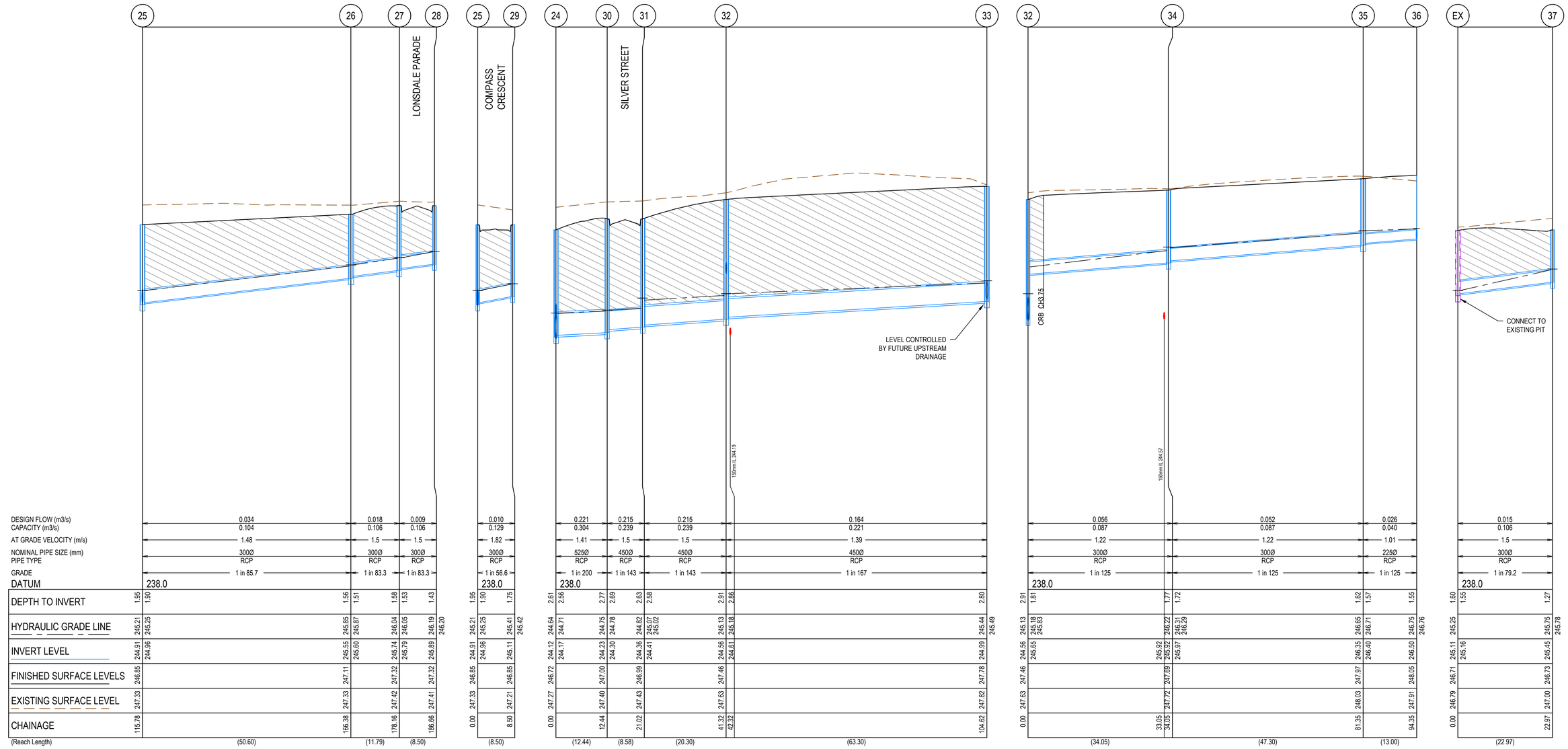
mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-20	20 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-20.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:07:59 AM

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



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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

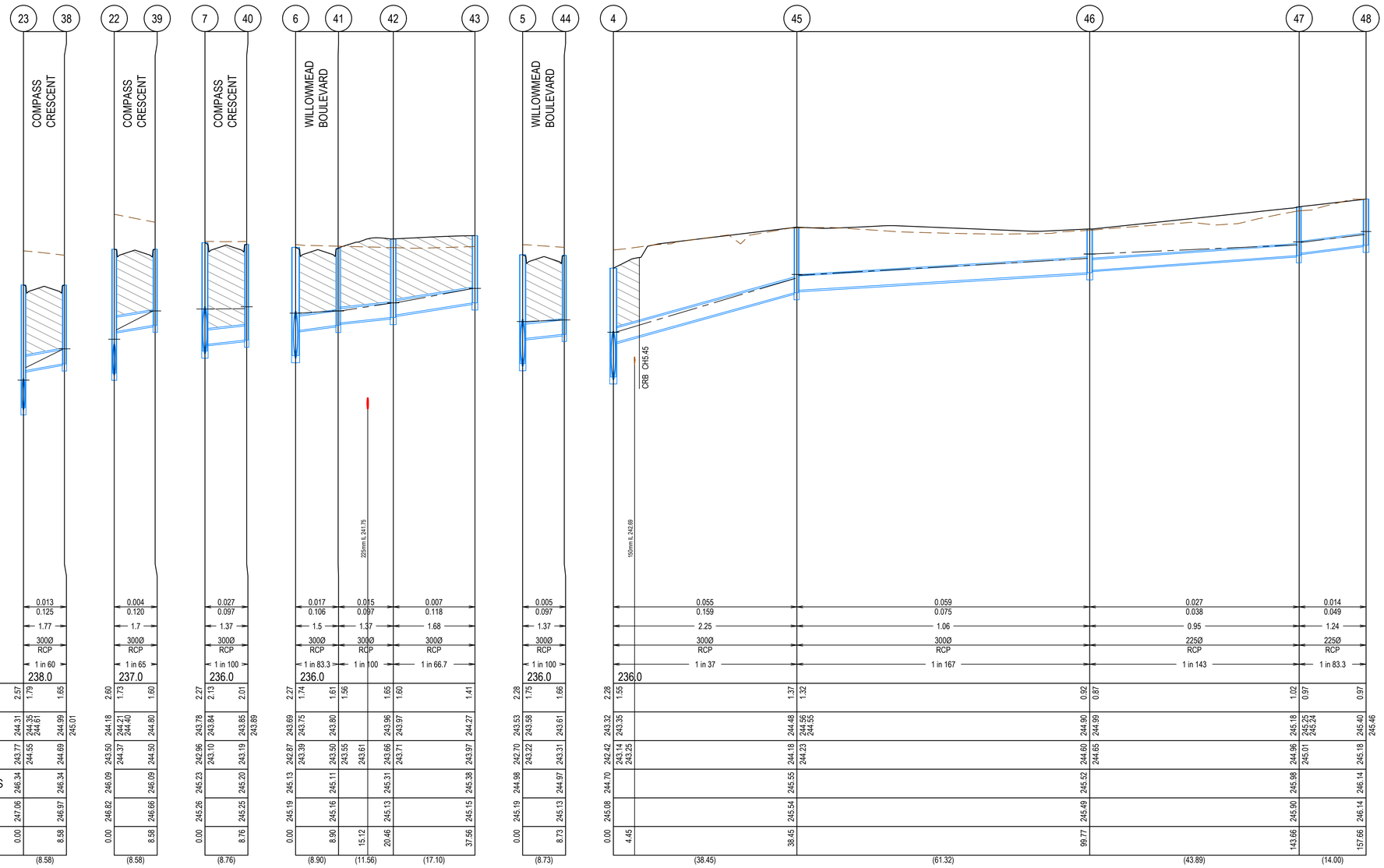
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 3

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-21	21 of 27	1

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



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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 4

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-22	22 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-22.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:09:25 AM

PIT SCHEDULE

PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
1	ENDPIPE			900	241.926			245.029	0		TEMPORARY HEADWALL
2	JUNCTION PIT	1350	900	900	242.075	900	242.025	244.942	2.916	EDCM 607	
2A	JUNCTION PIT	1500	900	900	242.217	900	242.167	244.534	2.367		
				450	242.5						
3	JUNCTION PIT	1500	1200	900	242.321	900	242.271	244.573	2.302	EDCM 607	
4	JUNCTION PIT	1200	900	825	242.469	900	242.419	244.695	2.277	EDCM 607	
				300	243.144						
5	GRATED ENTRY PIT	1050	900	825	242.747	825	242.697	244.976	2.28	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
				300	243.222						
6	GRATED ENTRY PIT	1500	900	825	242.915	825	242.865	245.131	2.266	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
				300	243.39						
7	DOUBLE GRATED ENTRY PIT	1050	2100	825	243.01	825	242.96	245.23	2.271	EDCM 607 & 602	HAUNCH PIT COVER TO 600 x 900
				300	243.1						
8	GRATED ENTRY PIT	1050	1350	675	243.274	825	243.199	245.8	2.601	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
				525	243.349						
9	GRATED ENTRY PIT	900	1350	675	243.368	675	243.318	245.907	2.589	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
10	DOUBLE GRATED ENTRY PIT	750	900	600	243.454	675	243.404	245.915	2.512	EDCM 607 & 602	HAUNCH PIT COVER TO 600 x 900
11	GRATED ENTRY PIT	750	900	600	243.59	600	243.54	245.984	2.444	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
				300	244.484						
12	GRATED ENTRY PIT	750	900	600	243.926	600	243.876	246.213	2.337	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
13	GRATED ENTRY PIT	750	900	600	244.139	600	244.089	246.349	2.26	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
				300	244.239						
14	ENDPIPE			600	244.203	600	244.203	246.402	2.199		BLANK OFF END PIPE
15	GRATED ENTRY PIT	600	900	300	244.508	300	244.458	246.353	1.896	EDCM 605 & 601	
				300	244.508						
16	DOUBLE GRATED ENTRY PIT	600	900	300	244.686	300	244.636	246.12	1.484	EDCM 605 & 602	
				300	244.686						
17	GRATED ENTRY PIT	600	900			300	244.906	246.297	1.391	EDCM 605 & 601	
18	DOUBLE GRATED ENTRY PIT	600	900			300	244.722	246.123	1.4	EDCM 605 & 602	
19	ENDPIPE			300	244.642	300	244.642	246.401	1.669		BLANK OFF END PIPE
20	JUNCTION PIT	600	900	225	245.328	300	245.278	246.952	1.674	EDCM 605	
21	JUNCTION PIT	900	600			225	246.15	247.197	1.046	EDCM 605	
22	GRATED ENTRY PIT	750	900	525	243.546	525	243.496	246.093	2.597	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
				300	244.367						
23	GRATED ENTRY PIT	750	900	525	243.821	525	243.771	246.343	2.572	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
				300	244.549						
24	GRATED ENTRY PIT	750	900	300	244.613	525	244.117	246.725	2.608	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
				525	244.167						
25	GRATED ENTRY PIT	600	900	300	244.957	300	244.907	246.853	1.946	EDCM 605 & 601	
				300	244.957						
26	GRATED ENTRY PIT	600	900	300	245.597	300	245.547	247.107	1.559	EDCM 605 & 601	
27	GRATED ENTRY PIT	600	900	300	245.789	300	245.739	247.32	1.581	EDCM 605 & 601	
28	GRATED ENTRY PIT	600	900			300	245.891	247.317	1.426	EDCM 605 & 602	
29	GRATED ENTRY PIT	600	900			300	245.107	246.854	1.747	EDCM 605 & 601	
30	GRATED ENTRY PIT	750	900	450	244.304	525	244.229	246.995	2.766	EDCM 607 & 601	HAUNCH PIT COVER TO 600 x 900
31	GRATED ENTRY PIT	600	900	450	244.414	450	244.364	246.994	2.63	EDCM 605 & 601	
32	GRATED ENTRY PIT	600	900	450	244.607	450	244.557	247.464	2.907	EDCM 605 & 601	
				300	245.65						
33	GRATED ENTRY PIT	600	900	450	245.036	450	244.986	247.783	2.796	EDCM 605 & 601	
34	JUNCTION PIT	600	900	300	245.972	300	245.922	247.692	1.769	EDCM 605	
35	JUNCTION PIT	900	600	225	246.401	300	246.351	247.971	1.62	EDCM 605	
36	ENDPIPE			225	246.505	225	246.505	248.055	1.55		BLANK OFF END PIPE
Ex	Ex	600	900	300	245.16			246.713	0		CONNECT TO EXISTING PIT
37	JUNCTION PIT	600	900			300	245.454	246.729	1.274	EDCM 605	GRATED JUNCTION PIT LID. REFER DETAIL.
38	GRATED ENTRY PIT	600	900			300	244.691	246.342	1.651	EDCM 605 & 601	
39	GRATED ENTRY PIT	600	900			300	244.499	246.094	1.596	EDCM 605 & 601	
40	DOUBLE GRATED ENTRY PIT	600	900			300	243.188	245.195	2.008	EDCM 605 & 602	
41	GRATED ENTRY PIT	600	900	300	243.547	300	243.497	245.111	1.614	EDCM 605 & 601	
42	GRATED ENTRY PIT	600	900	300	243.713	300	243.663	245.308	1.646	EDCM 605 & 601	
43	GRATED ENTRY PIT	600	900			300	243.969	245.377	1.408	EDCM 605 & 601	
44	GRATED ENTRY PIT	600	900			300	243.309	244.965	1.656	EDCM 605 & 601	
45	JUNCTION PIT	900	600	300	244.232	300	244.182	245.554	1.372	EDCM 605	GRATED JUNCTION PIT LID. REFER DETAIL.
46	JUNCTION PIT	600	900	225	244.65	300	244.6	245.517	0.917	EDCM 605	
47	JUNCTION PIT	600	900	225	245.007	225	244.957	245.981	1.024	EDCM 605	
48	JUNCTION PIT	900	600			225	245.175	246.143	0.968	EDCM 605	

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

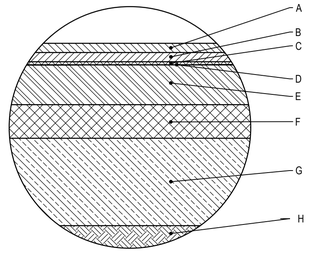
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Drainage Pit Schedule

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-23	23 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-23.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:10:12 AM



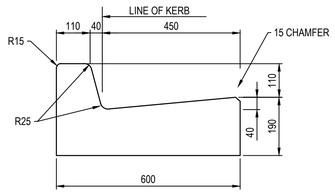
PAVEMENT COMPOSITION
KEY DIAGRAM

ROAD PAVEMENT COMPOSITION

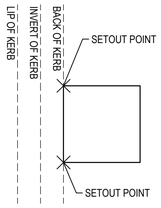
595mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	30	SIZE 10 TYPE N ASPHALT (CLASS 170 BINDER)
B INTERMEDIATE COURSE	30	SIZE 10 TYPE N ASPHALT (CLASS 170 BINDER)
C SAMII SEAL	10	SIZE 10 S18RF
D PRIME	YES	
E BASE COURSE	130	SIZE 20 CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% (MODIFIED) AS1289,5.2.1
F LOWER BASE	110	CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% (MODIFIED) AS1289,5.2.1
G CAPPING LAYER	285	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10⁻⁹m/s. OR LIME STABILISED SITE WON CLAY WHICH CONFORMS TO THE PARAMETERS ABOVE.
H SUBGRADE		SUBGRADE CLAY AS FOUND (C.B.R = 2%) (IF REQUIRED, SUBGRADE IMPROVEMENT WORKS TO BE UNDERTAKEN TO COUNCIL'S SATISFACTION)

LANEWAY COMPOSITION - EDCM503

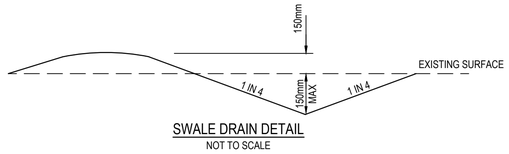
300mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
CONCRETE	200	N25 CONCRETE WITH SL82 MESH TOP 50 COVER. MESH TO HAVE 50 COVER TO ALL EDGES
SUB BASE	100	CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE MECHANICALLY COMPACTED



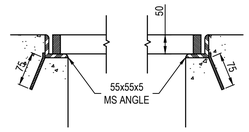
600 B2 KERB DETAIL
SCALE 1:10
EDCM



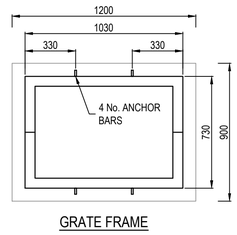
PIT SETOUT POINT DETAIL
NOT TO SCALE



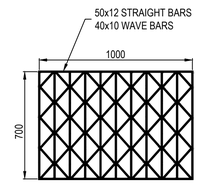
SWALE DRAIN DETAIL
NOT TO SCALE



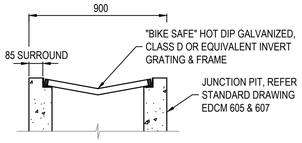
SECTION THROUGH GRATE



GRATE FRAME



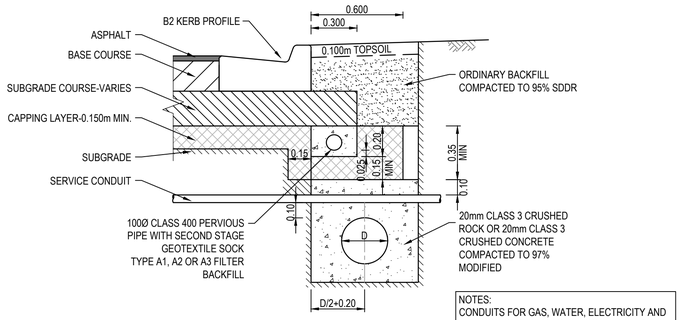
GRATE



SECTION THOUGH PIT

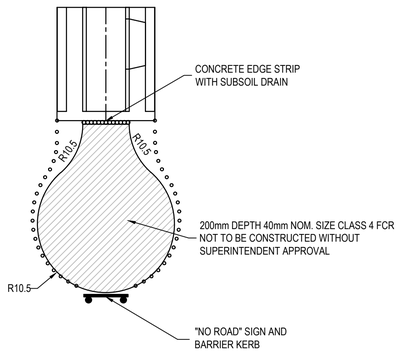
NOTES
1. REFER TO EDCM STANDARD DRAWINGS 605, 606 & 607 FOR PIT DETAILS.
2. GRATE FRAME TO BE "BIKE SAFE" TO AS3996-1992

GRATED JUNCTION PIT DETAIL
NOT TO SCALE

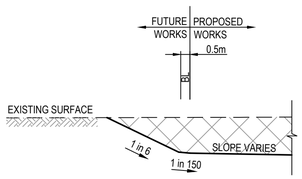


NOTES:
CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN

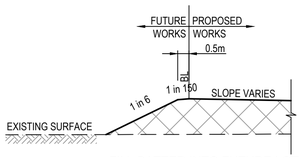
SUBSOIL DRAIN (EXPANSIVE SOILS)
NOT TO SCALE



TEMPORARY TURN AREA DETAIL
NOT TO SCALE



CUT BATTER INTO FUTURE LOT
NOT TO SCALE



FILL BATTER INTO FUTURE LOT
NOT TO SCALE

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

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

0 0.1 0.2 0.4
Scale 1:10
0 10 20 40
Scale 1:1000
SCALE AS SHOWN AT A1

N

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

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
General Notes & Pavement Details

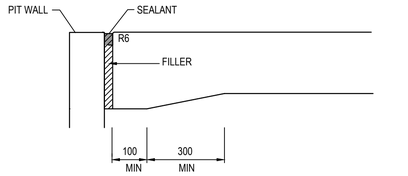
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-24	24 of 27	2

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-24.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:10:53 AM

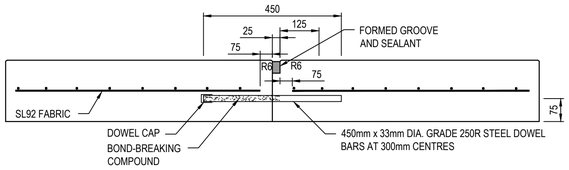
NOTE:
CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICKED UNTIL AT LEAST SEVEN DAYS AFTER POURING.

JOINT DETAIL NOTES:

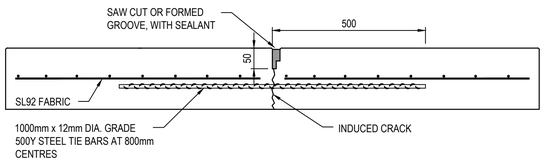
1. SAW JOINTS ARE TO BE PLACED AT A MAXIMUM 5m SPACING AT INTERSECTIONS AND CONSTRUCTED 18-24 HOURS AFTER POURING.
2. TRANSVERSE/CONTRACTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 12m.
3. ISOLATION JOINTS ARE TO BE PLACED AROUND PITS.
4. ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH "CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA - CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS 1997".



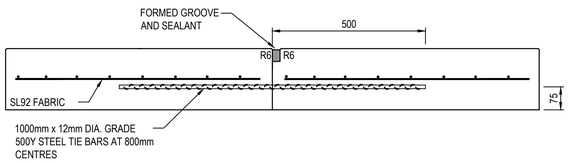
ISOLATION JOINT (IJ)



TRANSVERSE CONTRACTION JOINT - DOWELLED
BUTT JOINT AT CONSTRUCTION JOINT (DJ)

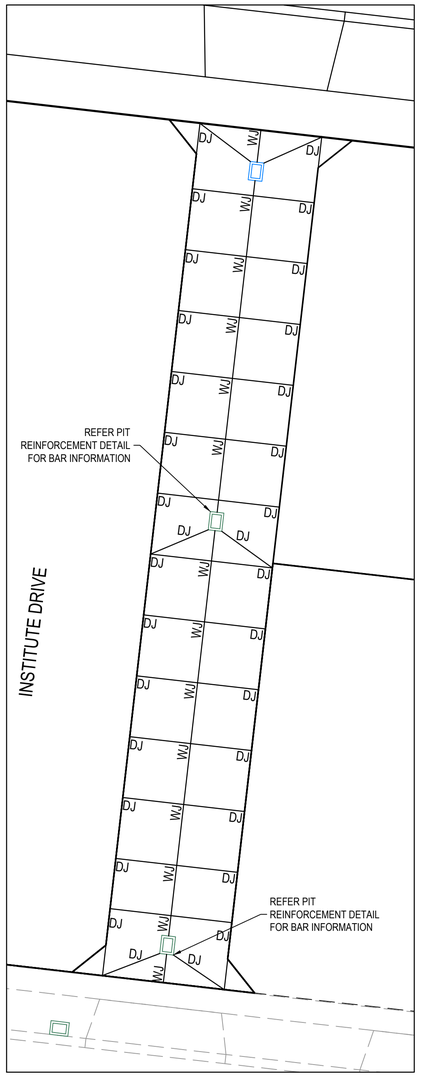


LONGITUDINAL WARPING JOINT - WEAKENED
PLANE JOINT (WJ)

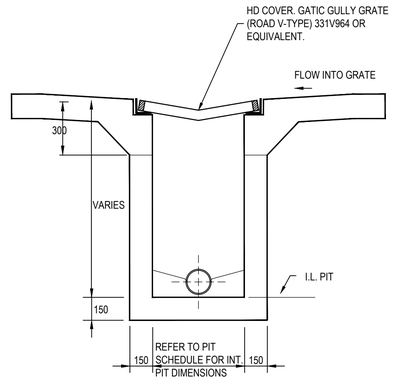


LONGITUDINAL WARPING JOINT -
CONSTRUCTION JOINT (WCJ)

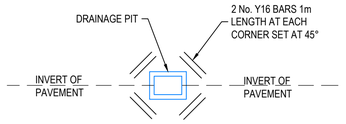
CONCRETE JOINTING DETAILS
NOT TO SCALE



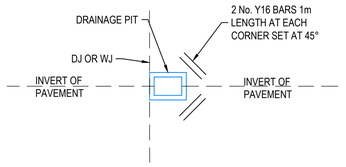
PLAN
1:200



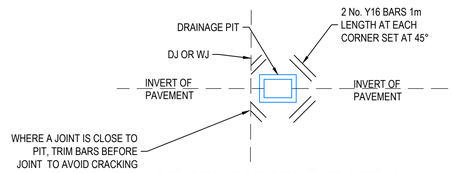
GRATED INLET PIT DETAILS
(IN CONCRETE PAVEMENT)
NOT TO SCALE



PIT REINFORCEMENT DETAIL
(NO PAVEMENT JOINT AT EITHER SIDE OF PIT)
NOT TO SCALE



PIT REINFORCEMENT DETAIL
(PAVEMENT JOINT LOCATED AT ONE SIDE OF PIT)
NOT TO SCALE



PIT REINFORCEMENT DETAIL
(PAVEMENT JOINT CLOSE TO PIT)
NOT TO SCALE

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

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

0 0.1 0.2 0.4
Scale 1:10
0 2 4 8
Scale 1:200
SCALE AS SHOWN AT A1

N

SMEC
Member of the Surbana Jurong Group

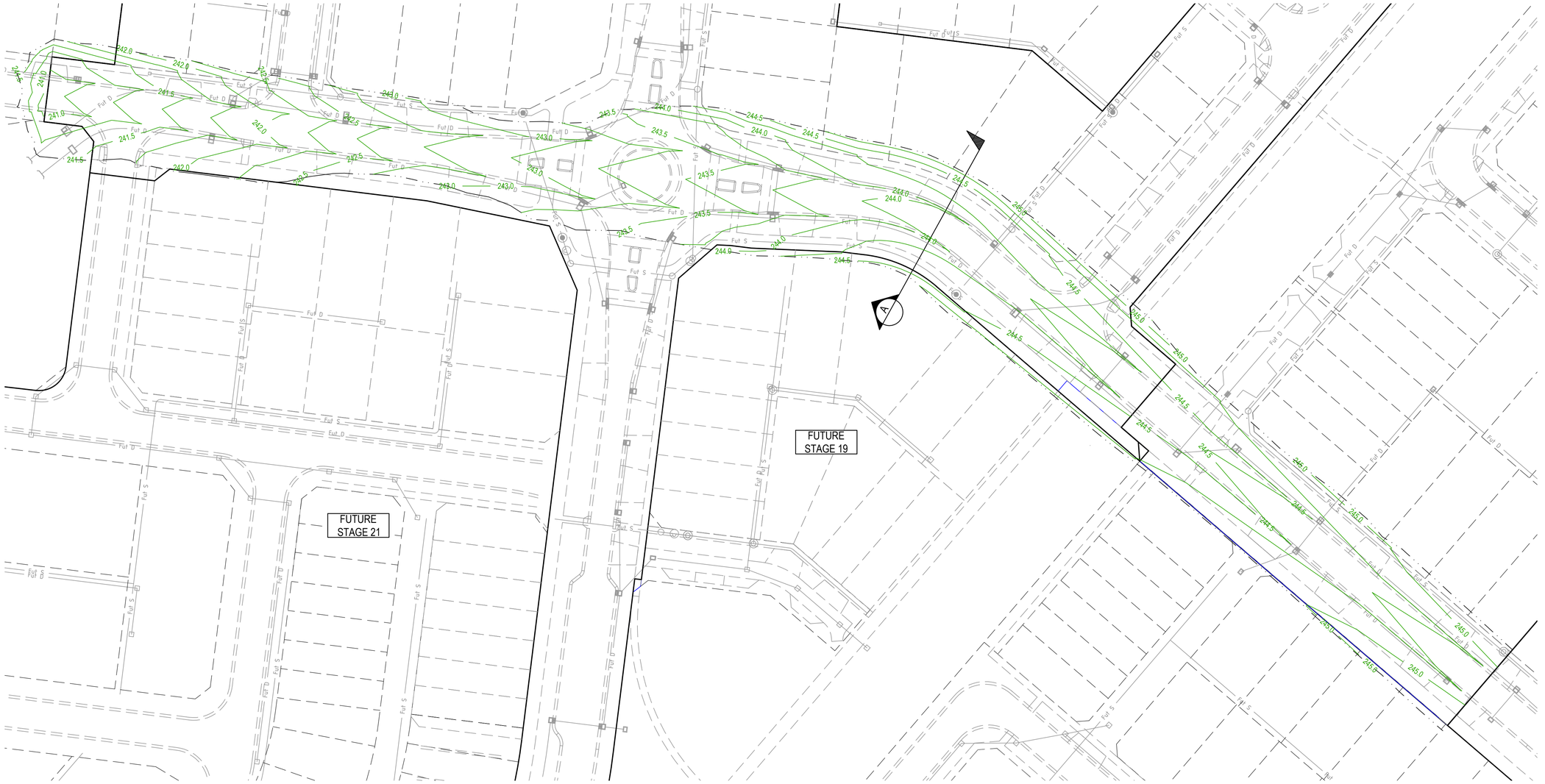
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

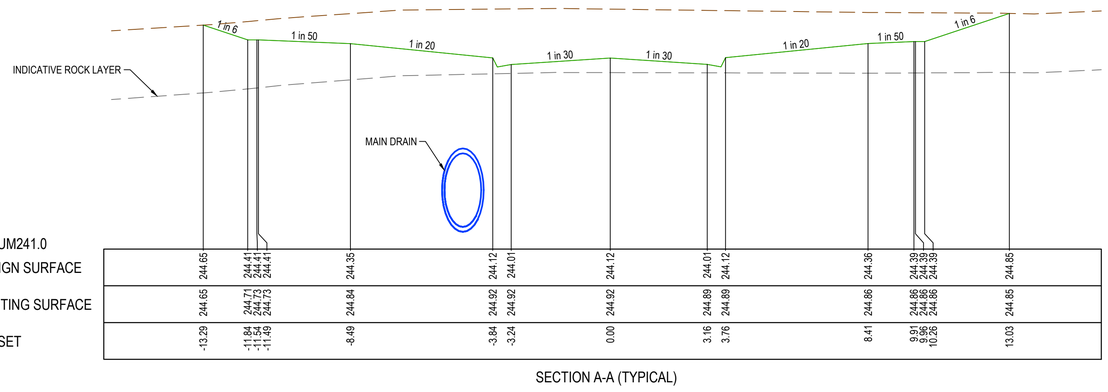
mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Concrete Jointing Details - Orbit Lane

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-25	25 of 27	2

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-25.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:11:35 AM





SECTION A-A (TYPICAL)

LEGEND - EARTHWORKS PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

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

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

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

N

SMEC
Member of the Surbana Jurong Group

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

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Willowmead Boulevard Earthworks Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-26	26 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-26.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:40:54 AM

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

AS CONSTRUCTED PLANS

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

AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

TITLE	NAME
DRAFTER	E.Bates
DESIGNER	M.Angay
CHECKED	K.Moore
AUTHORISED	A.Burrows
SMEC DRAWING REF.	1700E-12
REFERENCE No. 2	

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

N

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

mirvac

Olivine Estate - Stage 12
Whittlesea City Council
Road and Drainage
Safety In Design

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
8 M2	1700E-12-85	27 of 27	1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-12\Dwgs\1700E-12-85.dwg PRINTED BY: BK15730 on 23/04/2021 at 10:14:14 AM