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DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-17\Dwgs\1700E-017-101.dwg PRINTED BY: RS16291 on 05/04/2022 at 12:23:04 PM



Olivine Estate Stage 17





TYPICAL SHARED TRENCH DETAIL LEAGUE ROAD, PATCH ROAD



GENERAL NOTES (WHITTLESEA CITY COUNCIL)

1.	THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MPA 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.
2	

- 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. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING
- OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN 3.3.
- 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 STORMWATER DRAINS ARE TO BE CLASS 2 R.C. OR RIGID F.R.C PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750MM DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750MM DIA. 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 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 MODULAS 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.

NOTES FOR WORKS UNDER OVERHEAD ELECTRICAL POWERLINES

- . 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 AUSNETS 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.



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, consequence and controls refer to Safety In Design Risk Register SID P4.E6. 1700E-017-500 ASSESS THE RISK - STAY SAFE

WARNING

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

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Olivine Estate - Stage 17 Whittlesea City Council Road and Drainage Cover Plan & General Notes

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-017-101

REVISION SHEET No. 01 of 13



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KERB			
	TYPE	VERGE V	VIDTH (m)
ST	STH/EAST	NTH/WEST	STH/EAST
	B2	4.35	4.35
	B2	4.35	4.35
ELEC	TRICITY	Ν	BN
	OFFSET (m)	SIDE	OFFSET (m)
H	2.55	SOUTH	1.85
H	2.55	NORTH	1.85
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	MAIN DRAIN
	SWALE DRAIN
●S■	SEWER & MAINTENANCE STRUCTURES
— — — — —H	HOUSE DRAIN
—— E ——	ELECTRICITY (U.GROUND)
—— 0/H ——	ELECTRICITY (O.HEAD)
G	GAS
I	
W	WATER
RW	RECYCLE WATER
—— Ag ——	AG. DRAIN
— <u>GW</u> —	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
_>>	
Ө—Ех S ——	STRUCTURES
— — — — H	EXISTING HOUSE DRAIN
——Ex E——	EXISTING ELECTRICITY (UNDER GROUND)
——0/H E——	EXISTING ELECTRICITY OVERHEAD
——Ex G——	EXISTING GAS
——Ex T——	
Ex 0	
— Ex.Ag —	EXISTING AG. DRAIN
GWR)	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
>>	FUTURE SWALE DRAIN
⊖−fut s−−−	FUTURE SEWER & MAINTENANCE
H	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
— FutO/H E—	FUTURE ELECTRICITY OVERHEAD
— Fut G —	FUTURE GAS
— Fut T —	FUTURE TELSTRA
— Fut 0 —	
Fut W	
—Fut Aa—	
GWR)	
	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	
BW159.00	BOTTOM OF RETAINING WALL LEVEL
DW139.00	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL
	FILL > 200mm DEEP
\sum	CUT > 200mm DEEP
\rightarrow	DIRECTION OF FALL
	OVERLAND FLOW
*	
	EDGE STRIP. SUBSOIL DRAIN.
• •	"NO ROAD" SIGN & BARRIER
	EXISTING TREE
<u> </u>	TO BE RETAINED
	EXISTING TREE
A ALAN	
▲ 	
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	EXISTING ROAD PAVING
	•

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

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	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
•S	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
0/H	ELECTRICITY (O.HEAD)
—— G ——	GAS
— T —	TELSTRA
0	
W	
Ag	AG. DRAIN
—@W—	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
->>-	EXISTING SWALE DRAIN
G—Ex S—	STRUCTURES
— — — — — H	EXISTING HOUSE DRAIN
——————————————————————————————————————	EXISTING ELECTRICITY (UNDER GROUND)
0/H E	
Ex 0	EXISTING OPTIC FIBRE
——Ex W——	EXISTING WATER
——Ex RW——	EXISTING RECYCLED WATER
—— Ex.Ag ——	EXISTING AG. DRAIN
GWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
_>>	FUTURE SWALE DRAIN
G-FUT S-	STRUCTURES
— — — — — H	
— Fuf G —	FUTURE GAS
— Fut T —	FUTURE TELSTRA
Fut 0	FUTURE OPTIC FIBRE
—— Fut W——	FUTURE WATER
— Fut RW —	FUTURE RECYCLED WATER
—Fut Ag—	FUTURE AG. DRAIN
141 34	
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
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEED
	FILL > 200mm DEEP
	CUT > 200mm DEEP
\rightarrow	DIRECTION OF FALL
	OVERLAND FLOW
*	
	EDGE STRIP, SUBSOIL DRAIN,
	"NO ROAD" SIGN & BARRIER
E	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
	PROPOSED ROAD PAVING EXISTING ROAD PAVING

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SHEET NO. REVISION 03 of 13 1

Olivine Estate - Stage 17 Whittlesea City Council Road and Drainage Earthworks & Retaining Wall Setout Plan

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-017-131

RETAINING WALL - LONGITUDINAL SECTION HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:50 @ A1

AS CONSTRUCTED PLANS

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RETAINING WALL - CONCRETE SLEEPER

TOP OF WALL

LEGEND	
ALL PROPOSED, FUTURI	E & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
>	SWALE DRAIN
●S■	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
— Е — —	ELECTRICITY (U.GROUND)
0/H	ELECTRICITY (O.HEAD)
—— G ——	GAS
—— T ——	TELSTRA
0	OPTIC FIBRE
—— w ——	WATER
—— RW ——	RECYCLE WATER
—— Ag ——	AG. DRAIN
—@W—	SERVICE CONDUITS
CH270.00	CHAINAGE
TW159.60	TOP OF RETAINING WALL LEVEL
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
—— Ag ——	AG. DRAIN

RETAINING WALL DESIGN AND APPROVALS REQUIREMENTS

NOTE: RETAINING WALL DETAILS AND DESIGN CERTIFICATION TO BE SUBMITTED TO COUNCIL PRIOR TO COMMENCEMENT OF CONSTRUCTION OF WALLS

ROCK RETAINING WALLS

- CONTRACTOR TO OBTAIN ANY RELEVANT BUILDING PERMITS. COPY OF BUILDING PERMIT TO BE PROVIDED TO PRINCIPAL.
- CONTRACTOR TO PROVIDE STRUCTURAL ENGINEER INSPECTION AND CERTIFICATION FOR CONSTRUCTION OF ALL WALLS, IRRESPECTIVE OF NEED FOR PERMIT OR OTHERWISE.
- CONTRACTOR TO ENSURE ALL REQUIREMENTS OF BUILDING PERMIT HAVE BEEN ADDRESSED.

RETAINING WALL TYPICAL SECTION NOT TO SCALE

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LEAGUE ROAD LONGITUDINAL SECTION

LEGEND	
<u> </u>	- EXISTING SURFACE
	- DESIGN LINE
<u> </u>	
—	- EXISTING DESIGN LINE

CH 38.25

AS CONSTRUCTED PLANS

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245.81	245.84	245.85 245.85 245.86 245.86	
3.80	6.45	7.95 8.00 8.95	

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DATUM245.0										5	
DESIGN SURFACE	246.88 246.88	246.85	246.76	246.65	246.76	246.65	246.76		246.85	246.88 246.88	
EXISTING SURFACE	246.96 246.96	246.95	246.93	246.92	246.90	246.88	246.87		246.85	246.84 246.84	
OFFSET	-8.00	-6.45	-3.80	-3.20	0.00	3.20	3.80		6.45	7.95 8.00	

CH 150.56

		1_in (50 <u>1 in 11.8</u>			1 in 30	1 in 30		1 in 30	<u>-1 in 50</u>		
DATUM245.0												
DESIGN SURFACE	-	246.92 246.92	246.89	246.67	246.56	246.66	246.56	246.67		246.75	246.78 246.79	
EXISTING SURFACE	-	246.98 246.98	246.97	246.94	246.94	246.94	246 <u>.9</u> 0	246.90		246.88	246.86 246.86	
OFFSET		-8.00 -7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80		6.45	7.95 8.00	

CH 131.20

		1 in 50	<u>1-in-11.8</u>		1 in 30	1 in 30			1 in 30	<u>1 in 50</u>		
	Ē										RBL	
DATUM245.0 DESIGN SURFACE		246.88		246.63	246.52	246.62	246.52	246.63		246.71	246.74	
EXISTING SURFACE		246.86	240.80	246.87	246.86	246.84	246.84	246.84		246.83	246.83 246.83	
OFFSET		-7.95	C4.0-	-3.80	-3.20	0.00	3.20	3.80		6.45	7.95 8.00	

TPCH 123.18

	 1 in 50	<u>1 in 11.8</u>			1 in 30 1 in 30		1 in 30	1 in 50	3BL	·
DATUM245.0									5	
DESIGN SURFACE	246.79 246.79	246.76 [.]	246.54	246.43	246.53	246.43	246.54	246.62	246.65 246.66	
EXISTING SURFACE	246.64 246.64	246.62	246.59	246.58	246.54	246.50	246.50	246.50	246.50 246.50	
OFFSET	-8.00 -7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95 8.00	

CH 105.25

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

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		1 in 40	<u>1-in-5</u>	; 0		
				RBL		
245.60	245.71		245.78	245.81 245.81		
245.98	245.96		245.90	245.87 245.87		
3.20	3.80		6.45	7.95 8.00		

)		in 40	1 in 50		 	
		~				
245.49	245.6(240.01	245.70		
245.86	245.86	01E 01	240.01	245.79		
3.20	3.80	6 AE	0.43	8.00		

	1	in 40	<u>1 in 50</u>	
				E Company
245.36	74.642	015 52	240.00	245.56 245.56
245.71	245.70	015.65	240.00	245.61 245.61
3.20	3.80	E AF	0.1-0 7 05	7.95 8.00

	1 in 30	1 in 50		
			RBL	
245.12 - 245.23 -	915 37.	245.35-	245.35-	
245.57 245.56	016 ED	245.51	245.50	
3.20	6 4E	2 d5	8.00	

DATUM244.0

OFFSET

DESIGN SURFACE

EXISTING SURFACE

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

CH 87.86

	1 in	50	1 in 40		1 in 30 1 in 30		1 in 30.1	<u> </u>	RBL	
ATUM244.0 ESIGN SURFACE	246.07	246.04	245.97	245.86	245.97	245.86	245.97	246.06	246.09 246.09	
XISTING SURFACE	246.37 246.37	246.34	246.31	246.30	246.26	246.20	246.19	246.15	246.12 246.12	
FFSET	-8.00 -7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95 8.00	
					CH 107.62					

		1 in 50	1 in 40		1 in 30	1 in 30			1 in 40	<u>-1-in-50</u>	SBL	
DATUM244.0	_ _						Ť.				<u>Ľ</u>	
DESIGN SURFACE	- -	245.06		245.92	240.0 71 E	240.92	245.8	245.92		245.98	246.0 246.0	
EXISTING SURFACE	-	246.27 246.26		246.24 246.24	C2.042	240.20	246.16	246.15		246.10	246.07 246.07	
OFFSET		-7.95		-3.80			3.20	3.80		6.45	7.95 8.00	

	 1 in 50	1 in 40			1 in 30	1 in 30		1 in 40	<u>- 1-in 50</u>	BL	
JM244.0	 -										
GN SURFACE	246.01 246.01	245.98	245.92	245.81	245.92	245.81	015 00	240.92	245.98 -	246.01- 246.01	
TING SURFACE	246.27 246.27	246.26	246.24	246.23	246.20	246.16	21 210	240.13	246.10	246.07 246.07	
SET	-8.00 -7.95	-6.45	-3.80	-3.20	0.00	3.20	00 0	0.00	6.45	7.95 8.00	

245
246.20
0.00
CH 98.74
30

245.92 245.92

246.25 246.25

-8.00 -7.95

- 63

-6.45

245.82⁻ 245.71-

246.25 246.25

-3.80 -3.20

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

1 in 30	1 in 40	<u>- 1 in 50</u>	3BL
245.71	245.82	245.89	245.92
246.11	246.10	246.04	246.01 246.01
3.20	3.80	6.45	8.00 000

Olivine Estate - Stage 17 Whittlesea City Council Road and Drainage Cross Sections: Patch Road Ch 38.25 - Ch 107.62 MELWAYS REF PROJECT / DRAWING No. 1700E-017-252 SHEET NO. REVISION 07 of 13 1

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.

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-17\Dwgs\1700E-017-301.dwg PRINTED BY: RS16291 on 05/04/2022 at 12:25:36 PM

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

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.

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-17\Dwgs\1700E-017-302.dwg PRINTED BY: RS16291 on 05/04/2022 at 12:25:51 PM

						PIT SCHEDULE					
	ТУРЕ	INTE	RNAL	INL	ET	OUT	LET	ГО	DEDTU	STANDARD	DEMARKO
PIT NUMBER	ITPE	WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)	- F.S.L.	DEPTH	DRAWING	REMARKS
Ex-32	Ex	900	600	300	245.067			245.832			CONNECT TO EXISTING PIT
1	JUNCTION PIT	600	900	300	245.14	300	245.09	245.898	0.808	EDCM 605	V-NOTCH PIT
2	JUNCTION PIT	600	900	225	245.894	300	245.819	248.271	2.452	EDCM 605	
3	JUNCTION PIT	600	900			225	246.694	247.759	1.066	EDCM 605	V-NOTCH PIT
Ex-EP2	Ex ENDPIPE			300	243.764			245.62	1.855		CONNECT TO EXISTING ENDPIPE
4	SIDE ENTRY PIT	600	900	300	245.142	300	245.092	246.526	1.434	EDCM 601	
				300	245.142						
5	SIDE ENTRY PIT	600	900	300	245.355	300	245.305	246.693	1.388	EDCM 601	
6	SIDE ENTRY PIT	600	900			300	245.419	246.753	1.334	EDCM 601	
7	SIDE ENTRY PIT	600	900			300	245.185	246.503	1.318	EDCM 601	
Ex-EP1	Ex ENDPIPE			300	244.744			245.777	1.072		CONNECT TO EXISTING ENDPIPE
8	JUNCTION PIT	600	900			300	245.536	246.55	1.015	EDCM 605	
Ex-25	Ex	900	900	300	244.286			245.862			CONNECT TO EXISTING PIT
9	SIDE ENTRY PIT	600	900			300	244.459	245.858	1.399	EDCM 601	

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

780mm DEPTH PA	VEMENT COMPOSITION	LAYER	
PAVE	MENT LAYER	THICKNESS (mm)	MATERIAL
	WEARING COURSE	30	SIZE 10mm TYPE L (CLASS 320 BINDER) ASPHALT
ASPHALT	BASE COURSE	30	SIZE 10mm TYPE N (CLASS 320 BINDER) ASPHALT
	BITUMINOUS PRIME	-	SAMI 10 S18RF
BASE COURSE	BASE	130	20mm CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% OF MDD (MODIFIED PROCTOR) AS1289,5.2.1
SUBBASE COURSE	UPPER SUBBASE	120	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% OF MDD (MODIFIED PROCTOR) AS1289,5.2.1
SUBBASE COURSE	LOWER SUBBASE	170	CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% OF MDD (MODIFIED PROCTOR) AS1289,5.2.1
CAPPING	CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR ≥8%, SWELL ≤ 1.5% AND PERMEABILITY ≤ 5 X 10-9M/SEC COMPACTED TO 98% OF MDD (STANDARD PROCTOR)
CONSTRUCTION LAYER		150	IMPORTED TYPE A FILL WITH CBR ≥8%, SWELL ≤ 1.5% AND PERMEABILITY ≤ 5 X 10-9M/SEC COMPACTED TO 98% OF MDD (STANDARD PROCTOR)
SUBGRADE		-	CBR VARIES BETWEEN 1.0% AND 3.0%. SUBGRADE DESIGN CBR = 2% EXPANSIVE

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

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THE FOLLOWING HAVE BEEN IDENTIFIED AS SIGNIFIC CHMP, REF. 12653_12112014 KANGAROO MANAGEMENT PLAN ,REF. 6406_FINAL_24062016 RIVER RED GUM TREE MANAGEMENT PLAN, REF. 008833_22032018 CEMP, REF. 9930_FINAL(v1)_26102017 THESE ASPECTS SHALL BE MANAGED WITH THE ENVIRONMENTAL PROTE	CANT ENVIRONMENTAL ASPECTS FOR THE SITE:	I HAVE PREPARED THIS ENVIRONMENTAL MANAGEMENT PLAN AND AGREE TO UNDERTAKE WORKS AND ENSURE SUB-CONTRACTORS UNDERTAKE WORKS IN ACCORDANCE WITH THIS PLAN.	DEVELOPER Mirvac Level 5, Building Q3, 6 Riverside Quay Southbank VIC 3006 NAME: RJ Javier SIGNED: 0466 934 677 Randy.Javier@mirvac.com	 > Quay ⇒ Quay ⇒ Quay CONSULTANT SMEC - URBAN DEVELOPMENT Collins Square, Tower 4, Level 20 727 Collins St, Melbourne, VIC 3008 NAME: Riley Giacomini SIGNED: 0456 859 384 Riley.Giacomini@smec.com 				
MANAGEMENT 1. RESPONSIBILITIES: Civil Contractor: WINSLOW CONSTRUCTORS PTY LTD Superintendent: SMEC	4. STAGING OF WORKS: - AS PER CONSTRUCTION PROGRAM							
EMERGENCY CONTACTS 1. SHANKAR TISSEVERASINGHE - (03) 986909 2. RILEY GLACOMINI - (03) 95141622	947			TREES TO BE RETAINED TO HAVE A TPZ ERECTED AT LEAST 5m				
2. COMMUNICATION OF EMP REQUIREMENTS: - INDUCTION OF ALL PERSONS WORKING ON SITE REGARDING REQUIREMENTS AS SET OUT ON THE EMP. - EMP TO BE DISPLAYED IN VISIBLE LOCATION WITHIN SITE COMPOUND EG. ON WALLS OF SITE SHEDS / OFFICE.	5. INFORMING RESIDENTS: AS REQUIRED		FUTURE STAGE 18	BEYOND THE DRIPLINE OF THE TREES. AREAS TO BE SIGNED AS TPZ AND NO ACCESS. THERE SHOULD BE NO STORAGE OF MATERIALS OR EQUIPMENT IN THIS AREA.				
3. INSPECTIONS AND MAINTENANCE: - TWO INSPECTIONS PER WEEK - PRIOR TO AND AFTER STORM EVENT AND/OR HEAVY RAIN. - MAINTAINS SO REQUIRED WITH ALL RECTIFICATION TO BE ADDRESSED WITH 12 HOURS OF INCIDENT / REPORT.	6. ASSOCIATED DOCUMENTS:	PMS S.F. S.F. S.F. S.F.	INDICATIVE STOCKPILE LOCATIVE STOCKPILE S					
NOISE REQUIREMENT:	RISK: SIGNIFICANT		1722 1723 1724 1728					
EPA VICTORIA AND COUNCIL REQUIREMENTS MUST BE ADHERED TO IN RI RESIDENTS AND OTHER APPLICABLE NEIGHBOURS TO THE SITE ARE NOT 7. WORKING HOURS: 08.00 TO 16.30 MON - FR 8. NOISE MINIMISATION METHODS: - MAINTAIN WORKING HOUR. - RESTRICT USE OF NOISY EQUIPMENT AND PROCESSES TO AVOID DISTURBANCES TO ADJACENT RESIDENTS. - FOLLOW EPA NOISE CONTROL GUIDELINES - TG302/92.	ELATION TO THE LEVEL OF NOISE AND WORKING HOURS, TO ENSURE THAT DISTURBED UNREASONABLY. THE GENERATION OF NOISE MUST BE MINIMISED.	EXISTING STAGE 15	DAD 715 1714 1713 1774	215				
DUST <u>REQUIREMENT:</u> DUST GENERATION MUST BE MINIMISED TO ENSURE THERE IS NO HEALTH 10. MINIMISING DUST GENERATION - AVOID STRIPPING LARGE AREAS OF THE SITE WHEN NOT REQUIRED. - WATER SPRAYING AS REQUIRED. - MINIMISE STRIPPED AREAS. - MINIMISE ACTIVITIES ON HIGH WIND DAYS.	RISK: SIGNIFICANT <u>12. CONTINGENCIES:</u> - IF HIGH WIND IS EXPECTED WHILE LARGE AREAS OF THE SITE ARE STRIPPED, SPRAY WATER IN ORDER TO ESTABLISH A THICK CRUST OVER UNVEGETATED LAND. ALSO MONITOR DRYNESS OF EXPOSED EARTH. SHOULD GROUND DRY OUT SIGNIFICANTLY, CONSIDER WATER SPRAYING OR COVER AREA WITH SOIL OR GRASS. NOTE: IF A HOSE IS USED FOR WATER SPRAYING, THE HOSE IS TO BE FILLED WITH A LARGE TRIGGER NOZZLE. CHECK WATER			213 EXISTING STAGE 14 HA				
11. DUST SUPPRESSION: - WATER SPRAYING. - REDUCE ACTIVITY ONSITE WINDY DAYS.	13. OTHER: REFER TO DUST MANAGEMENT PLAN FOR FURTHER INFORMATION		EXISTING 1701 PATCH ROAD EXISTING STAGE 15 212	LERDANT DRUE				
EROSION AND SEDIMENT	RISK: SIGNIFICANT		210					
REQUIREMENT: EROSION AND SEDIMENT MUST BE MANAGED IN ACCORDANCE WITH CUR SEDIMENT-LADEN WATER FROM ENTERING ANY DRAINAGE SYSTEM OR N	RENT BEST PRACTICE ENVIRONMENTAL MANAGEMENT PRACTICES, TO PREVENT ATURAL WATERWAY	WILLOWMEAD POUR		EXISTING				
- STORMWATER FLOWING ONTO SITE WILL BE CONTROLLED BY CUT SWALES' DRAINS, STRAW BALES AND SILT FENCE OR OTHER CONTROLS TO FILTER FLAW WHERE APPLICABLE. - ENSURE STORMWATER PITS AND DRAINS ARE PROTECTED FROM SILT/SEDIMENT BY USING APPROPRIATE METHODS.	- SEDIMENT TRAFS. - SEDIMENT BASIN / SILT FENCE AS REQUIRED. - PIT LIDS MUST BE FITTED AS SOON AS POSSIBLE - USE TEMPORARY PIT LIDS UNTIL INSTALLED. USE SILT FENCES, SILT SAUSAGES, CUT OFF DRAINS AND OTHER SILT PROTECTION METHODS WHERE NECESSARY AS DETAILED IN THIS EMP PLAN AND AS REQUIRED BY THE SITUATION.	DEVELOPMENT. WHEEL WASH E TO BE INSTALLED UPON COUNC INSPECTOR REQUEST	JAY JU 209	a a a a a a a a a a a a a a a a a a a				
15. SOIL STABILISATION DURING CONSTRUCTION: GRADE AND SEAL SOIL AS REQUIRED, RE-INSTATE DISTURBED AREAS AS SOON AS PRACTICAL.	18. DEWATERING: - WHERE POSSIBLE WATER SHALL BE DIRECTED OVER EXISTING GRASS & PLANTED AREAS FRO FURTHER SEDIMENT CONTROL PRIOR TO DISCHARGE INTO STORMWATER SYSTEM. - IF THIS IS NOT POSSIBLE, WATER TO BE COLLECTED INTO A TEMPORARY SUMP AND THEN SENT THROUGH SILT TRAPS BEFORE ENTERING INTO THE DRAINAGE SYSTEM.	ARADE	Star 208 Les DuoOD CROL					
POST WORKS: - JUTE MATTING RETAINED. - TOPSOILING AND GRASSING DISTURBED SOIL AREAS TO BE CARRIED OUT AS SOON AS PRACTICAL. 16. STOCKPILE PROTECTION:	19. VEHICLE AND ROAD MANAGEMENT: SITE ACCESS: - ACCESS THROUGH COMO PARADE CLEANING VEHICLES: ALL VEHICLES LEAVING THE SITE MUST REMOVE ANY EXCESS SEDIMENTS/ CLAY COLLECTED ON THE VEHICLES WHILST ON SITE. EACH OPERATOR MUST MANUALLY REMOVE EXCESS CLAY SUCH THAT IT	d SnLdA	207 MILLOUIN					
OF STOCKPILES WHERE APPLICABLE. STOCKPILES TO BE PLACED AWAY FROM DRAINAGE INLETS, OPEN DRAINS, WATER COURSES & PAVED AREAS. A CUT-OFF DRAIN WITH EARTH BUND TO BE INSTALLED ON THE UPSLOPE SIDE OF THE STOCKPILE TO DIVERT RUN-OFF AWAY FROM THE STOCKPILE. MINIMISE THE NUMBER OF STOCKPILES WHERE POSSIBLE.	20. OTHER: ROADS ARE TO BE CLEANED PRIOR TO RAIN/STORMWATER EVENTS. STORMWATER PITS ALONG THE ESTABLISHED ROADWAY, WHICH ARE SUBJECT TO SEDIMENT DEPOSITS, WILL BE EITHER FITTED WITH KERB INLET PROTECTORS OR SHALL BE FITTED WITH (GEO-FABRIC) FILTER MATERIAL TO CAPTURE SEDIMENTS. ROADS ARE TO BE INSPRECTED AND ANY SEDIMENT DEPOSITED ON THESE ROADS REMOVED.	ROADC 206	A A D BOULLEN APD					
WASTE <u>REQUIREMENT:</u> LITTER AND WASTE MUST BE CONTAINED ON SITE BEFORE DISPOSAL IN		_						
21. MOVEMENT OF SOIL: CONTAMINANT STATUS: CLEAN	A RESPONSIBLE MANNER. WAS LE GENERATION MUST BE MINIMISED 23. WASTE STORAGE AND DISPOSAL: - WASTE BINS TO BE PLACED IN COMPOUND FRO DAILY RUBBISH AND REMOVED OFFSITE AS REQUIRED.							
22. WASTE MINIMISATION METHODS: - THE COLLECTION OF SURVEY PEGS AND OTHER MATERIALS ARE TO BE COLLECTED AND RE-USED ONSITE AND RECYCLED FRO FUTURE PROJECTS. - MATERIALS TO BE STORED IN COMPOUND OR SITE CONTAINER.	24. OTHER: N/A							
CHEMICALS REQUIREMENT:	RISK: SIGNIFICANT	SIGNIFICANT FLORA / FAUNA RISK: SIGNIFICANT ARCHAEOLOGICAL / HERITAGE REQUIREMENT: REQUIREMENT: REQUIREMENT:	RISK: SIGNIFICANT	RISK:				
STORAGE AND SPILL MANAGEMENT PRACTICES MUST BE IMPLEMENTED OR SPILLAGE OF CHEMICALS OR FUELS. <u>25. STORAGE:</u> - MINIMAL QUANTITIES STORED IN SITE CONTAINER.	TO ENSURE THAT NO ENVIRONMENTAL DAMAGE CAN RESULT FROM THE ESCAPE 27. REFUELLING PROCEDURE: - ALL REFUELLING TO BE CARRIED OUT BY EXTERNAL CONTRACTOR WITH PROCEDURES AND SPILL KITS AVAILABLE	Image: Second state of the	2AL OR HERITAGE SIGNIFICANCE MUST BE PROTECTED ILTURAL HERITAGE MANAGEMENT PLAN No.12015 PREPARED BY HERITAGE INSIGHT Pty Ltd DATED 31. RETARY, DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT ON 15TH APRIL 2012, OR INDEPTAKEN, PRIOR TO AND DURING THE CONSTRUCTION OF THE DEVELOPMENT HERERY					
	DURING REFUELLING.	APPROVED.	ADERTAREN, FRIOR TO AND BORING, THE CONSTRUCTION OF THE DEVELOPMENT HEREBT					
26. SPILL MANAGEMENT: - SEE ITEM 27, REFUELLING UNDERTAKEN BY EXTENDED FUEL CONTRACTOR WHO CARRIES ALL THE REQUIRED SPILL KITS ETC.	<u>28. OTHER:</u> N/A							
The purpose of these as- significant changes which occ plans are design levels, an	AS CONSTRUCTED PLANS constructed plans is to update the de curred during construction. Note that d have not been verified by survey. A	esign drawings to show the levels shown on these All information shown on	N Member of the S (C) ABN 4	Urbana Jurong Group 7 065 475 149				
these plans should be verifie loss or damages re	ed on site. SMEC Australia Pty Ltd ac esulting from the inappropriate usage	ccept no responsibility for 0 10 s of these plans. Scale 1:10 scale As Si Scale As Si	20 40 000 Collins Square, Towe HOWN AT A1 03	er 4, Level 20, 727 Collins St VIC, 3008, Australia 9514 1500				

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-17\Dwgs\1700E-017-451.dwg PRINTED BY: RS16291 on 05/04/2022 at 12:26:35 PM

DATE:	CONTRACTOR Winslow Constructors Pty Ltd 50 Barry Road Campbellfield VIC 3061 NAME: Adam Stojanovski SIGNED: 0427 446 501	DATE:
	adams@winslow.com.au	
	LEGEND - ENVIRONMENTAL MANAGEMENT ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN IN	PLAN DICATIVELY
		3E PITS
	Swale Drain EXISTING STORMWATE	R DRAINAGE PITS
	> EXISTING SWALE DRAIN	1
	EXISTING RETAINING W	ALL
	EXISTING TREE TO BE F	RETAINED
	EXISTING TREE TO BE F	EMOVED
		1E
	EXISTING TREE TO BE F	REMOVED
	TREE PROTECTION FEM REFER ARBORICULTUR	ICING E REPORT
	PROPOSED DRIVEWAY	& FOOTPATH
	S.F. S.F. SILT FENCE OR SIMILAF EROSION PROTECTION	
	CATCH DRAIN ALONG L SILT CURTAINS OR SIM	OW POINTS WITH LAR PLACED AT
	MIN. 150M CATCH DRAIN WITH STR S ^R FENCE OR SIMILAR	RAW BALES / SILT
	SUGGESTED STOCKPIL	E LOCATION
HARDW	WORK COMPONNID REFILLING LOCATION, A	MPOUND, FUEL
	CLEANING AREA CLEANING AREA STORMWATER PIT PRO	TECTION
		IF
	STABILIZED ACCESS PC	
ex15 2400		UBER 2019.
RISK: REQUIREMENT: 32. 32. 32.		RISK:
	Olivine Estate - Stage 17 Whittlesea City Council Road and Drainage Environmental Management pla	

Layout

SHEET No. REVISION 1 0f 13

MELWAYS REF PROJECT / DRAWING №. 367 G11 1700E-017-451

DISCLAIMER: 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.

	RISK ASSESSMENT CHECKLIST					
NOISE		ENVIRONMENTAL				
- NATURE OF NOISE GENERATING WORKS: VEHICLES, FIXED MACHINERY, CONSTRUCTION ACTIVITIES. - POTENTIAL NOISE RECEPTORS: SURROUNDING RESIDENTS / CONTRACTORS.:	LIKELY					
PROXIMITY OF WORKS TO NOISE RECEPTORS: ADJACENT RESIDENTS THE RESIDENTS OF CRESSY WAY & EMINENCE DRIVE LIVE, 100m FROM THE SITE		_				
	MAJOR	<u>GEOTEXTILE</u>				
	OVERALL RISK	STAK				
	LOW	DRIVEN				
DUST						
ISSUES: • DUST SOURCES: MOVEMENTS OF VEHICLES • POTENTIAL DUST RECEPTORS: SURROUNDING RESIDENTS / CONTRACTORS	LIKELIHOOD LIKELY					
- PROXIMITY OF WORKS TO DUST RECEPTORS: ADJACENT RESIDENTS						
- WIND CONDITIONS:	<u>CONSEQUENCE</u> MAJOR	500-700r MAX.				
		- 2000				
	LOW					
EROSION AND SEDIMENT		200mm INTO GROUND				
ISSUES: - EROSION AND SEDIMENT SOURCES: EXPOSED TOPSOIL	LIKELIHOOD LIKELY					
- POTENTIAL EROSION AND SEDIMENT RECEPTORS: STORMWATER SYSTEM, CREEK SYSTEM. - PROXIMITY OF WORKS TO EROSION AND SEDIMENT RECEPTORS: ADJACENT RESIDENTS - EXTENT OF EXPOSED EARTH AND DURATION OF TIME EXPOSED: AREA APPROXIMATELY 5 HA EXPOSED FOR 6 MONTHS.						
- SLOPE: MINIMAL - 3 METRES OVER 250M - SITE DRAINAGE REGIME: SURFACE SWALES AND UNDERGROUND DRAINAGE	CONSEQUENCE MAJOR	<u>SILT/DRIFT FEN</u>				
- RAINFALL: 400 - 600MM / YEAR - VEHICLE MOVEMENTS ON AND OFF SITE: TO BE KEPT TO A MINIMUM AND VIA A SINGLE ENTRY / EXIT.		1.5M STAR PICKETS / MAX. 2.5m CENTRE				
	LOW	500mm 1 600mm 1				
WASTE		600mm 600mm				
ISSUES: - NATURE OF WASTE TO BE GENERATED: BUILDING AND CONSTRUCTION PRODUCTS. LITTER.	LIKELIHOOD LIKELY					
- PRESENCE OF WASTE ON SITE PRIOR TO WORK COMMENCEMENT: EXISTING SHEDS. - POTENTIAL WASTE RECEPTORS: SURROUNDING RESIDENTS.		DIS				
- PROXIMITY TO POTENTIAL WASTE RECEPTORS: ADJACENT RESIDENTS - THE RESIDENTS AT CRESSY WAY & EMINENCE DRIVE LIVE < 100M FROM THE SITE	CONSEQUENCE MAJOR					
	OVERALL RISK LOW					
ISSUES: - TYPES OF CHEMICALS AND FUELS USED AND/OR STORED ON SITE: REFER TO MATERIAL SAFETY DATA SHEET (MSDS)	LIKELIHOOD LIKELY	_				
- QUANTITIES OF CHEMICALS AND FUELS USED AND/OR STORED ON SITE: REFER TO MATERIAL SAFETY DATA SHEET (MSDS) - POTENTIAL CHEMICAL RECEPTORS: SURROUNDING RESIDENTS / CONTRACTORS / WATERWAYS						
- PROXIMITY TO POTENTIAL CHEMICAL RECEPTORS: 200 METRES	CONSEQUENCE MAJOR					
		CONSTRUCTION NOT 1. CONSTRUCT SEDIMENT				
	OVERALL RISK LOW	CONTOURS OF THE STI CATCHMENT AREA OF A TO LIMIT WATER FLOW				
SIGNIFICANT FLORA/FALINA		DESIGN STORM EVENT, 2. CUT A 150MM DEEP TRE EARDIO TO BE ENTREN(
ISSUES: - TYPES OF FLORA/ FAUNA: NIL	LIKELIHOOD LIKELY	3. DRIVE 1.5 METRE LONG DOWNSLOPE EDGE OF				
- VULNERABILITY OF FLORA/ FAUNA: N/A. - PROXIMITY OF FLORA/FAUNA TO WORKS: N/A.		CAPS 4. FIX SELF-SUPPORTING				
- WORK ACTIVITIES WHICH MAY THREATEN FLORA/ FAUNA: N/A. - POTENTIAL IMPACTS ON FLORA/ FAUNA: N/A.	CONSEQUENCE MAJOR	TO THE BASE OF THE T THE MANUFACTURER. (FENCING. THE USE OF S				
- REFER TO 0697-06-81, ITEM No.29 FOR DETAILS.		5. JOIN SECTIONS OF FAB 6. BACKFILL THE TRENCH				
	OVERALL RISK LOW	THE GEOTEXTILE.				
ISSUES: • TRADITIONAL LAND OWNERS CONSULTED? YES	LIKELIHOOD LIKELY	ISSUES: ALL CONTRACTORS TO IMPLEMENT AND ADHERE TO THE GUIDELIN DETAILED DESIGN DRAWINGS FOR EXACT LOCATION OF ELEMENTS				
- SURVEY OR ASSESSMENT CONDUCTED? YES - PROBABILITY OF ENCOUNTERING ARCHAEOLOGICAL/ HERITAGE ITEMS DURING WORKS: LOW		ALL CONTRACTORS TO IMPLEMENT, MONITOR AND REVIEW ENVIRO				
TYPES OF ARCHAEOLOGICAL/ HERITAGE ITEMS ON SITE: NIL PROXIMITY OF ARCHAEOLOGICAL/ HERITAGE ITEMS TO WORKS ON SITE: NA	CONSEQUENCE MAJOR					
WORK ACTIVITIES WHICH MAY THREATEN ARCHAEOLOGICAL/ HERITAGE ITEMS: NIL REFER TO 0697-06-81, ITEM No.30 FOR DETAILS.						
	OVERALL RISK LOW					
AS CONSTRUCTED PLANS The purpose of these as-constructed plans is to update the des	ign drawings to show	in the second to be second to b				
significant changes which occurred during construction. Note that the	ne levels shown on thes					
these plans should be verified on site. SMEC Australia Pty Ltd act	cept no responsibility for	Global-Mark.com.au [©] Global-Mark.com.au [®]				
loss or damages resulting from the inappropriate usage	or these plans.					

IMENTAL MANAGEMENT PLAN AND AGREE TO UNDERTAKE	DEVELOPER Mirvac		CONSULTANT SMEC - URBAN DEVELOPMENT			
TORS UNDERTAKE WORKS IN ACCORDANCE WITH THIS PLAN.	Level 5, Building Q3,	6 Riverside Quay	Collins Square, Tower 4, Level 20, 727 Co			
	Southbank VIC 3006			Melbourne, VIC 30	008	
PROTECTION MEASURES SHALL BE	NAME: RJ Javier	SIGNED:	DATE:	NAME: Riley Giacomini	SIGNED:	
	0466 934 677			0456 859 384		
RUANCE WITH THE FOLLOWING DESIGNS.	Randy.Javier@mirvac.com			Riley.Giacomini@smec.com	n	

INLET GUARD - PHASE B**

NCE - PHASE A**

GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES RENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.

BRIC AT A SUPPORT POST WITH A 150MM OVERLAP.

OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER

STOCKPILES

CONSTRUCTION NOTES:

- 1. WHERE POSSIBLE LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING \ ROADS AND HAZARD AREAS.
- 2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.
- 3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THA
- 4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
- 5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE T A SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE (
- 6. THE PLACEMENT OF FILL MUST BE DESIGNED TO ENSURE THAT IT DOES NOT PROTECTED.

7. SOIL MUST NOT BE STOCKPILED ON NATIVE VEGETATION

TREE PROTECTIVE FENCING

TREE PROTECTION/ NO-GO FENCING

- ALL INDIGENOUS TREES TO TWICE THE CANOPY - PROTECTIVE FENCING (HIGHLY VISIBLE) AROUND TWICE THE CANOPY DISTANCE OF EACH SCATTERED TREE AND MORE THAN 2 METRES

FROM AREAS OF NATIVE VEGETATION IDENTIFIED TO BE PROTECTED.

CONSTRUCTION NOTES:

- 1. CHAIN WIRE MESH PANELS WITH SHADE CLOTH (IF REQUIRED) ATTACHED, HELD IN PLACE WITH CONCRETE FEET.
- 2. ALTERNATIVE PLYWOOD OR WOODEN PALING FENCE PANELS. THIS FENCING MATERIAL ALSO PREVENTS BUILDING MATERIALS OR SOIL ENTERING THE TPZ.
- 3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF THE PROJECT ARBORIST). NO EXCAVATION, CONSTRUCTION ACTIVITY, GRADE CHANGES, SURFACE TREATMENT OR STORAGE OF MATERIALS OF ANY KIND IS PERMITTED WITHIN THE TPZ.
- 4. BRACING IS PERMISSIBLE WITHIN THE TPZ. INSTALLATION OF SUPPORTS SHOULD AVOID DAMAGING ROOTS.

NT 20, 727 Collins St		CONTRACTOR Winslow Constructors Pty Ltd	
		Campbellfield VIC 3061	
ED:	DATE:	NAME: Adam Stojanovski SIGNED: 0427 446 501	DATE:
		adams@winslow.com.au	
		WARNING	
		BEWARE OF UNDERGROUND SERV	<u>/ICES</u>
		ne locations of underground services are approximate or position should be proven on site.	ny and their exact
		No guarantee is given that all existing services are sho	wn. Locate all f works
ED LE SURFACE	for an and	DIAL 1100 REFORE YOU	DIG
		www.1100.com.au	
		}	
SLOPE M.	2 portan	, ,	
The second se			
		PRELIMINARY	
		NOT APPROVED FOR CONST	RUCTION
STING VEGETATION, CON	CENTRATED WATER FLO	WS, THIS PLAN HAS BEEN PREPARED FOR IN	FORMATION
		THE CONTRACTOR SHALL BE RESPON	E XX ISIBLE FOR
		PRODUCING THE FINAL EMP AS PART OF SUM PRICE FOR THE WORK	THE LUMP
ESS THAN 2 METRES IN H	EIGHT.		
E SIDE TO DIVERT RUN OF ISLOPE OF STOCKPILE.	F AROUND THE STOCKPI	LE AND	
S NOT COMPROMISE NAT	TIVE VEGETATION TO BE		
		∩ ⊏ ⊳ **	
INLET FILTE	K RAG - PHA		
ROLLED WIRE ME	SH AND/OR	GEOTEXTILE AND GRAVEL	ГО
GEOTEXTILE F 25-50n	ILLED WITH	EXTEND 250mm MIN. PAST THE END OF THE WIR	E MESH
GRATE	-	TO ENSURE SEAL WITH KEP	RB
	x	CONCRETE BLOCK	
ROADIN			
		LINTOL	
).			
=			
3			
			CONSEQUENCE
			MAJOR
			OVERALL RISK
			LOW
			7
		Olivine Estate - Stage 1	1
		Whittlesea City Counc	l
		Road and Drainage	
		Environmental Management pla	an Details
		Details	
	MELWAYS	REF PROJECT / DRAWING No.	SHEET No. REVISION
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PHASE Boad Euroiture /	DIS	CIPLINE CODE	<u>PO</u> (Construction,	TENTIAL RISK 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)	<u>Residual</u> <u>Risk</u> <u>Rating</u>	RESIDUAL RISK OWNER
Construction	RD	Roads	Construction close to live traffic	New works will be constructed adjacent to live traffic when abutting	Contractor	Disruptions to live traffic, construction	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15	Constructor
Construction		Deede	Outwarts	existing stages. Potential risk from culverts under construction and height / fall	Contractor	incident involving live traffic.	Temperary berriers to be provided	Tomporony barrier provided in contract	N	0	5	10	Constructor
Construction		KOBUS	Litilities become a bazard within clear zones	hazards 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	2	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	Vis lines checked and discussed with approval authority as part of	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	Audit Ensure design complies with relevant standard. Undertake thorough Safety	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)	Ν	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	Ν	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	Ν	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	Ν	1	5	5	Authority
Drainage		I			L				L				
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	Ν	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	Ν	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	Ν	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		1	F				1	1					
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	Ν	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	Ν	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	Ν	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	Ν	1	1	1	Authority

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

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SCALE AS SHOWN AT A1

Olivine Estate - Stage 17 Whittlesea City Council Road and Drainage Safety In Design

MELWAYS REF PROJECT / DRAWING No. 1700E-017-500

SHEET NO. REVISION 13 of 13 1