

GENERAL NOTES (WHITTLESEA CITY COUNCIL)

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. 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.

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

TRENCHING OPERATIONS ARE IN PROGRESS. 4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT

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 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.

ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM. 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

13. FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL 1 SUPERVISION IN ACCORDANCE WITH

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

25. NO TELSTRA PITS ARE TO BE LOCATED IN THE FOOTPATH 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

27. ALL PEDESTRIAN CROSSING THROUGH SPLITTER ISLANDS TO BE IN ACCORDANCE WITH SD606.

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.)

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 . 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** 

B. 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

. 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

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

. 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

#### WARNING

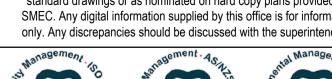
ne locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. ocate all underground services before commencement of works **DIAL 1100 BEFORE YOU DIG** www.1100.com.au

#### 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-14-85 ASSESS THE RISK - STAY SAF

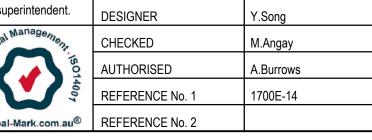
changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate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

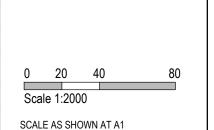
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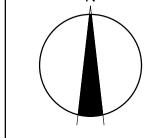














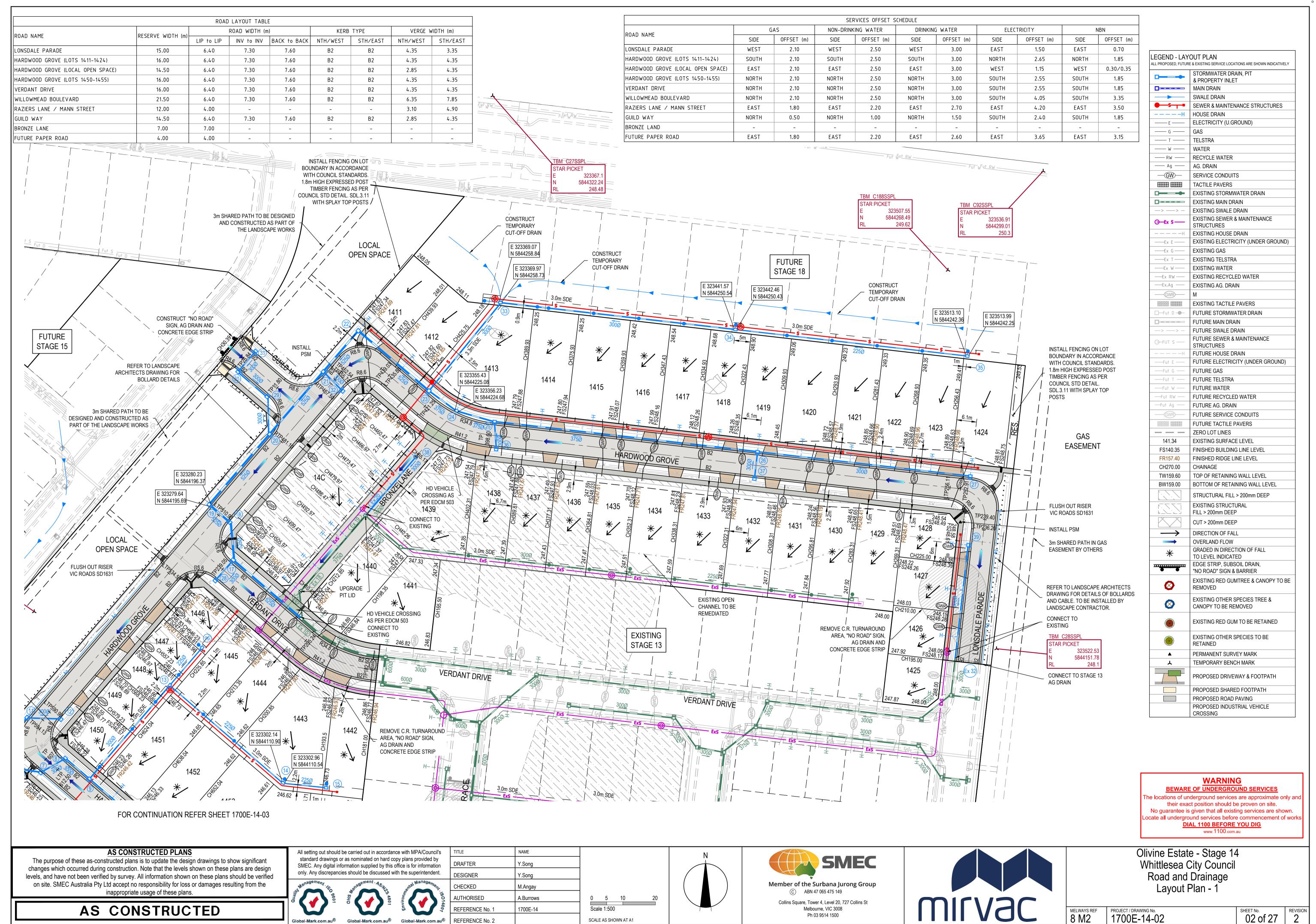
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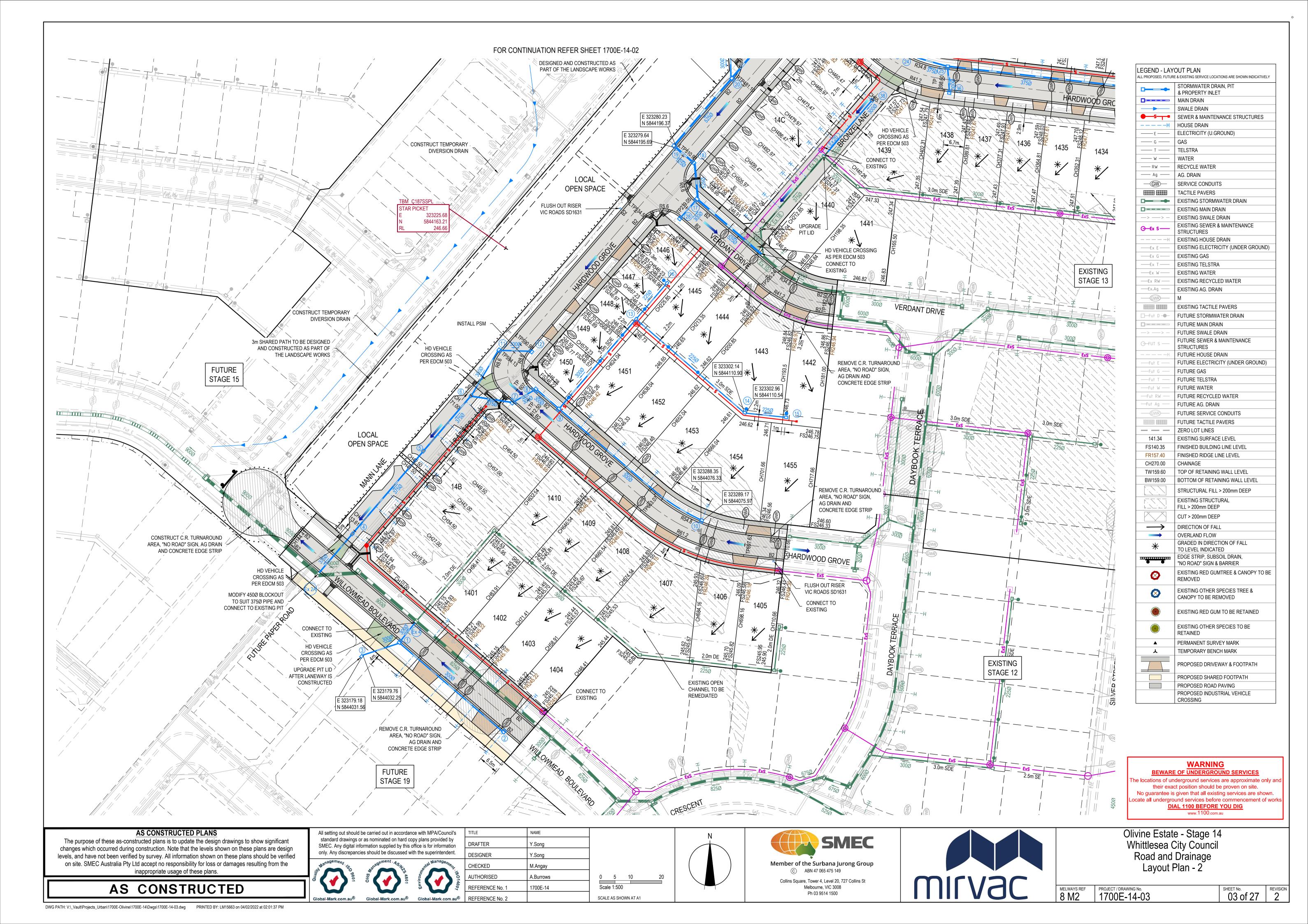


Olivine Estate - Stage 14 Whittlesea City Council Road and Drainage Cover Plan

PROJECT / DRAWING No. 1700E-14-01

01 of 27 | 2





#### **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. ocate all underground services before commencement of works **DIAL 1100 BEFORE YOU DIG** www.1100.com.au

RRPMs TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL MANUAL VOL 2.



# AS CONSTRUCTED PLANS

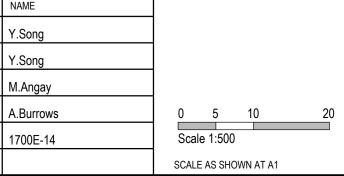
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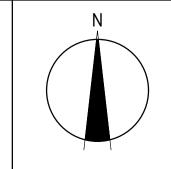
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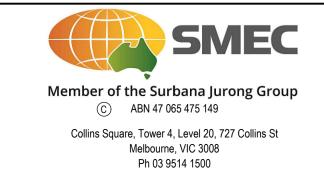
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DESIGNER AUTHORISED REFERENCE No. 1





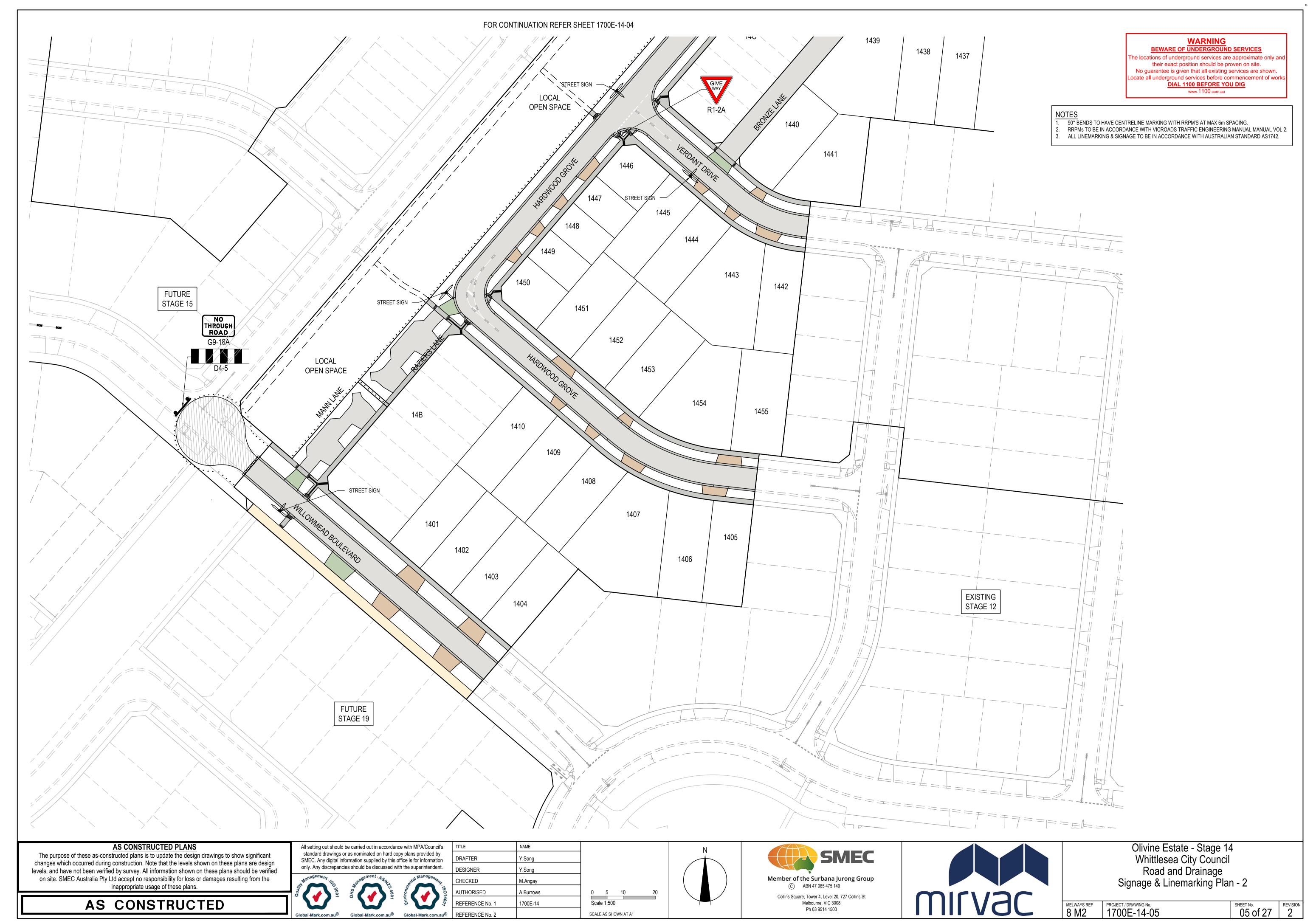




Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Signage & Linemarking Plan - 1

MELWAYS REF

PROJECT / DRAWING No. 1700E-14-04 SHEET No. REVISION 1





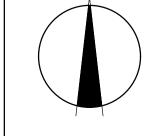
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AS CONSTRUCTED

AUTHORISED A.Burrows

REFERENCE No. 1

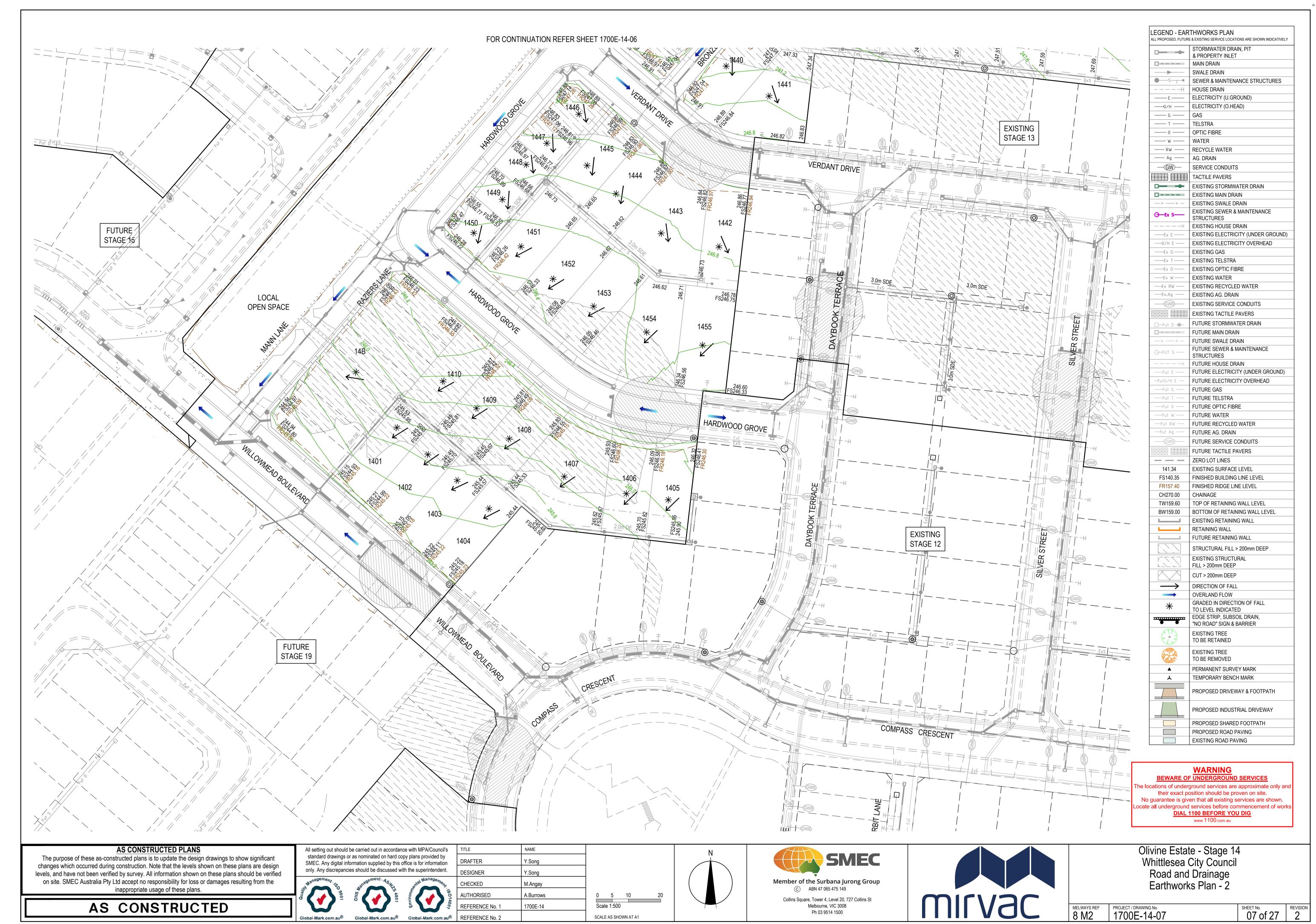
1700E-14 SCALE AS SHOWN AT A1

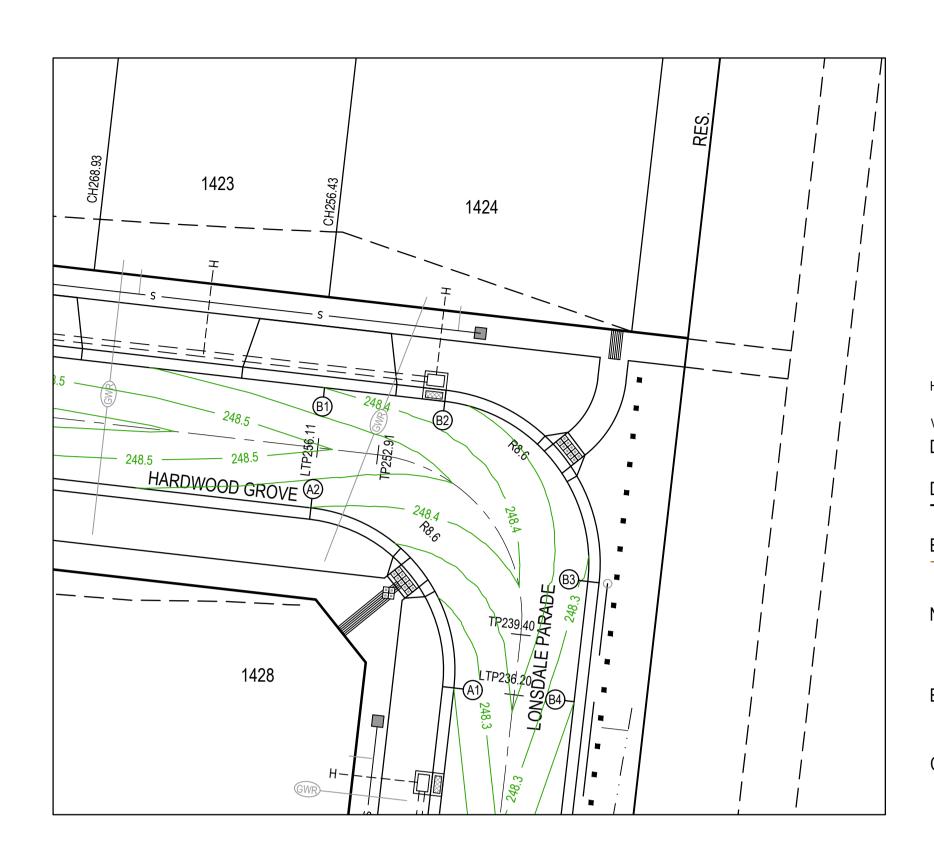


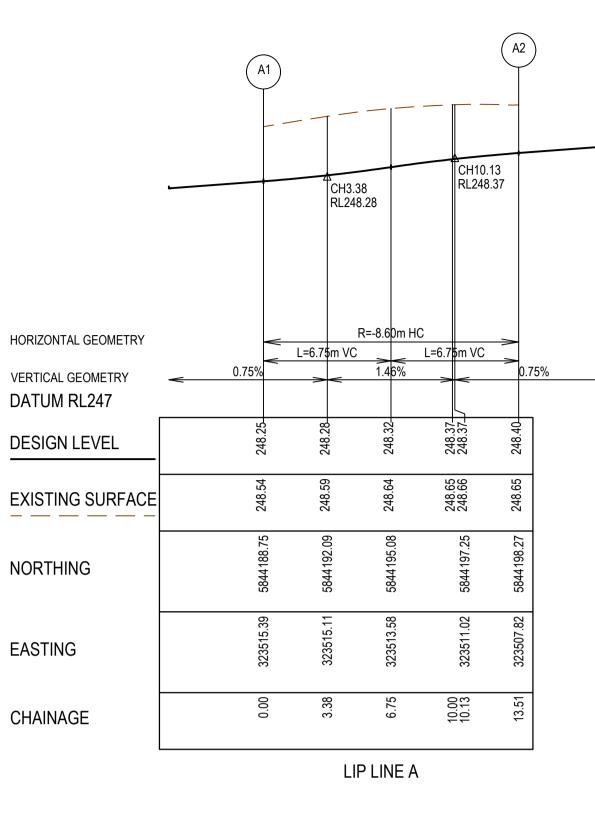


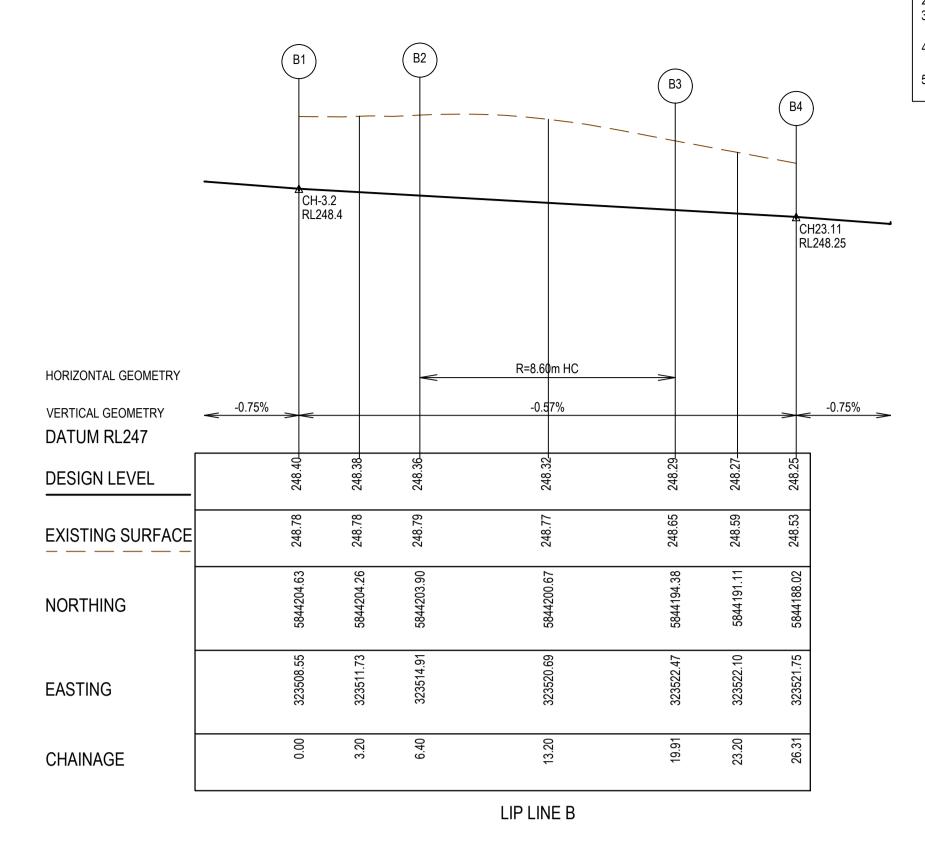


SHEET No. REVISION 1 PROJECT / DRAWING No. 1700E-14-06



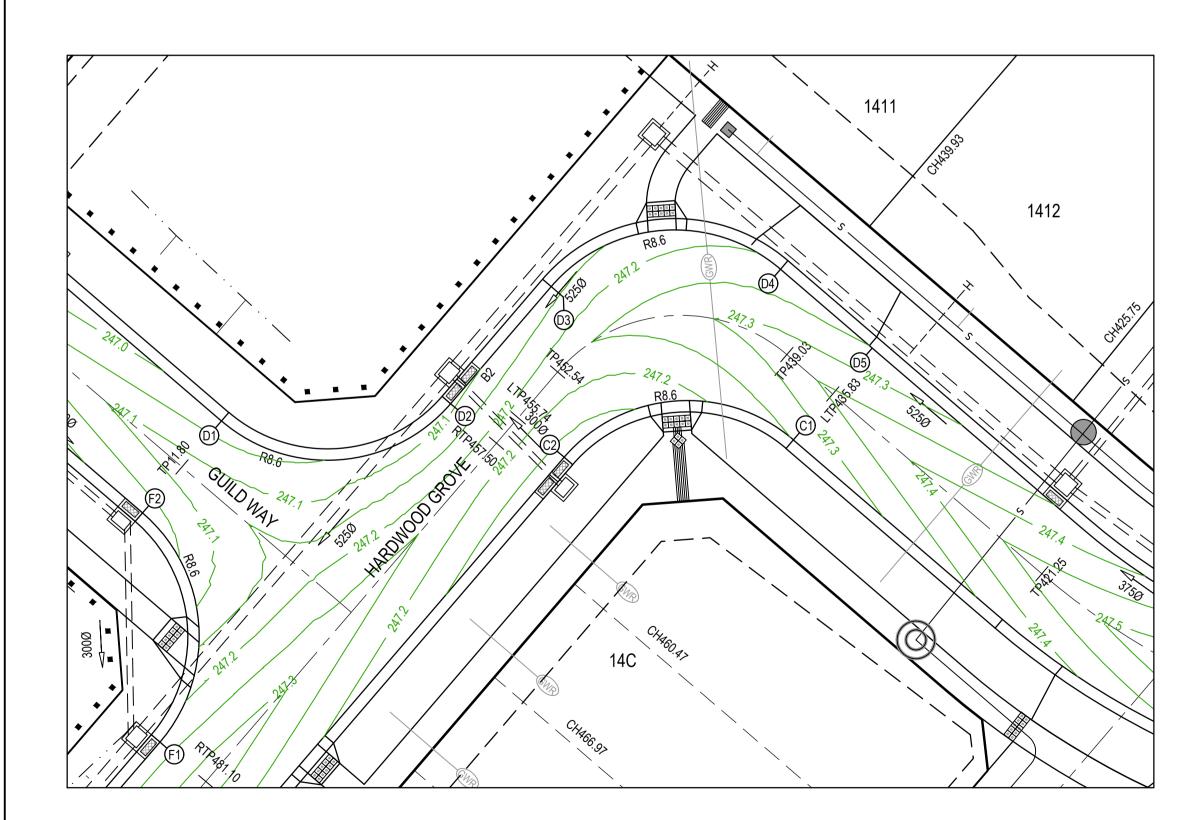


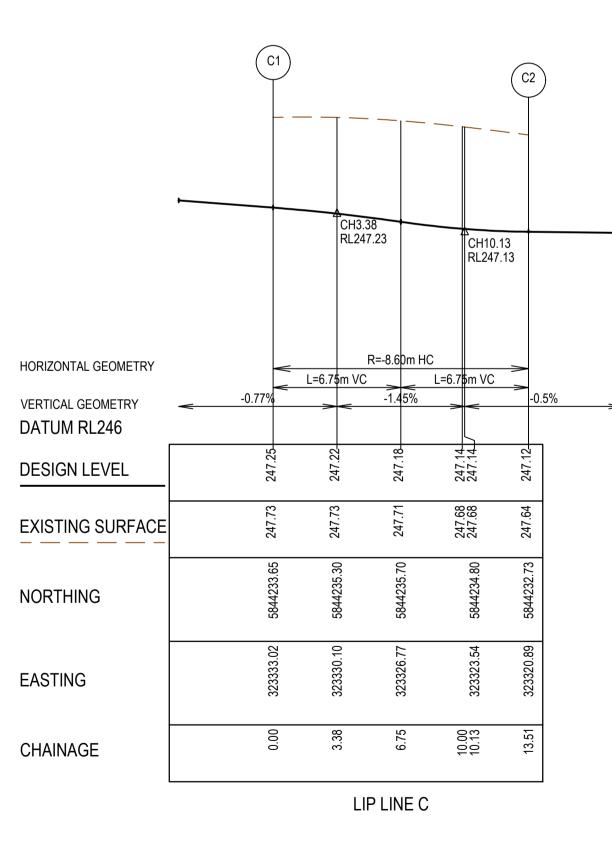


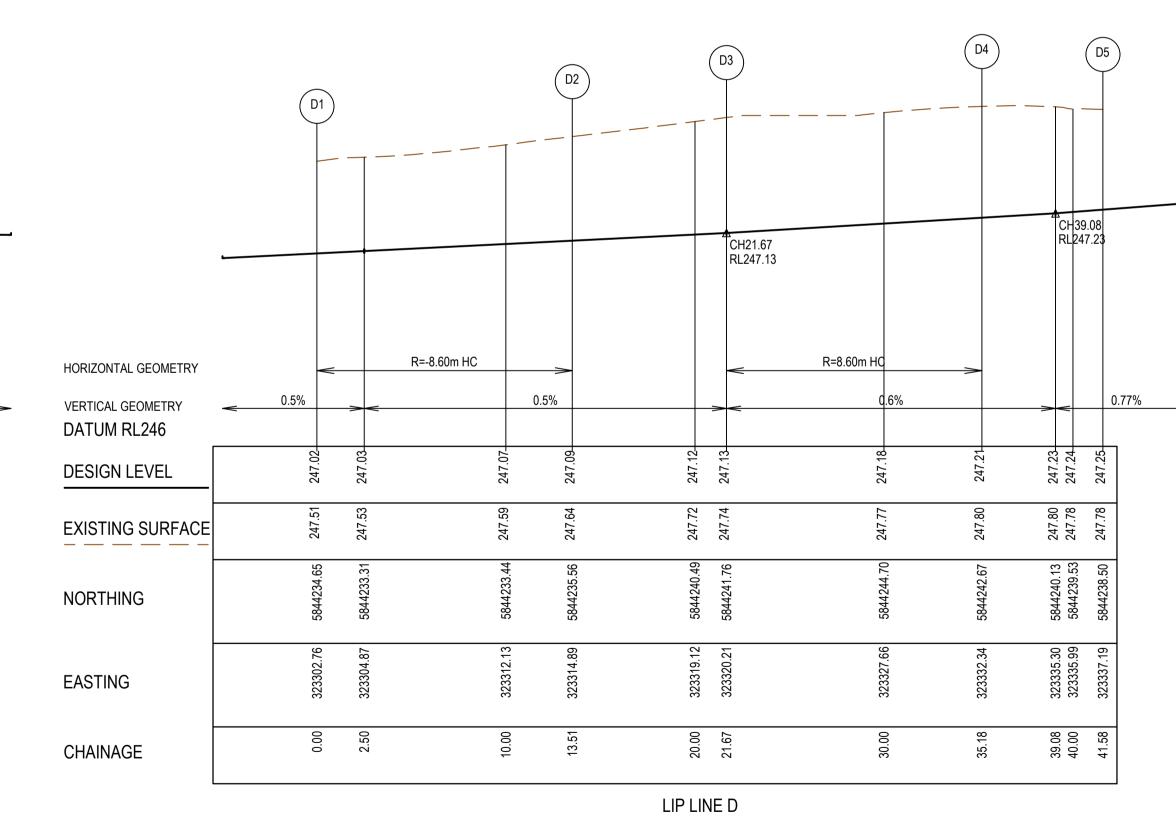


<ol> <li>ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.</li> <li>VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM</li> </ol>
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM
PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES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

	CTODAWATED DDAWN DIT				
STORMWATER DRAIN, PIT & PROPERTY INLET					
	MAIN DRAIN				
<b>S</b> ——	SEWER & MAINTENANCE STRUCTURES				
H	HOUSE DRAIN				
GWR	SERVICE CONDUITS				
	TACTILE PAVERS				
<u> </u>	EXISTING STORMWATER DRAIN				
□=====	EXISTING MAIN DRAIN				
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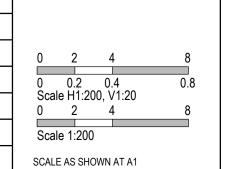
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	DRAFTER	Y.Song
	DESIGNER	Y.Song
	CHECKED	M.Angay
,c01400-	AUTHORISED	A.Burrows
400-	REFERENCE No. 1	1700E-14
®	REFERENCE No. 2	

NAME

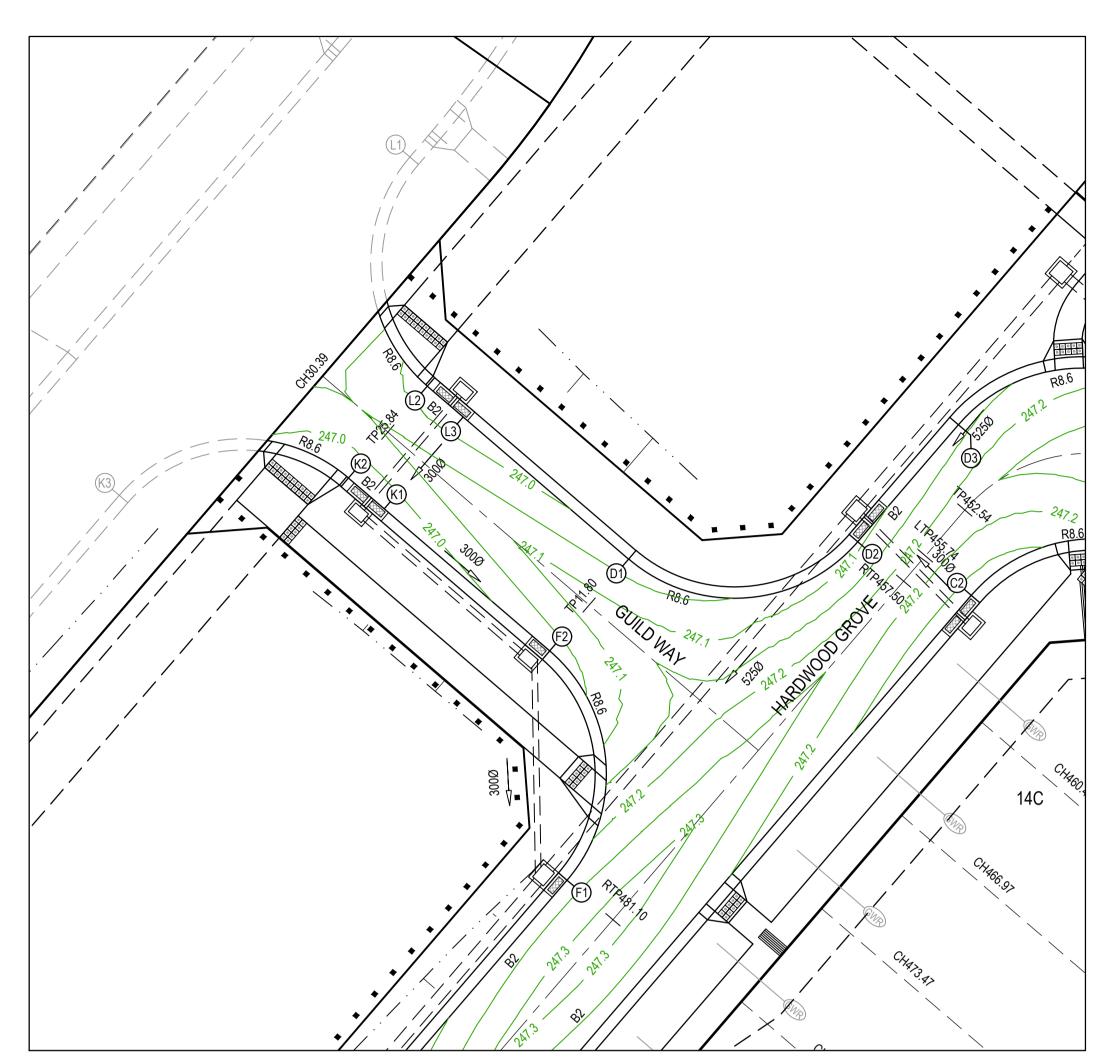


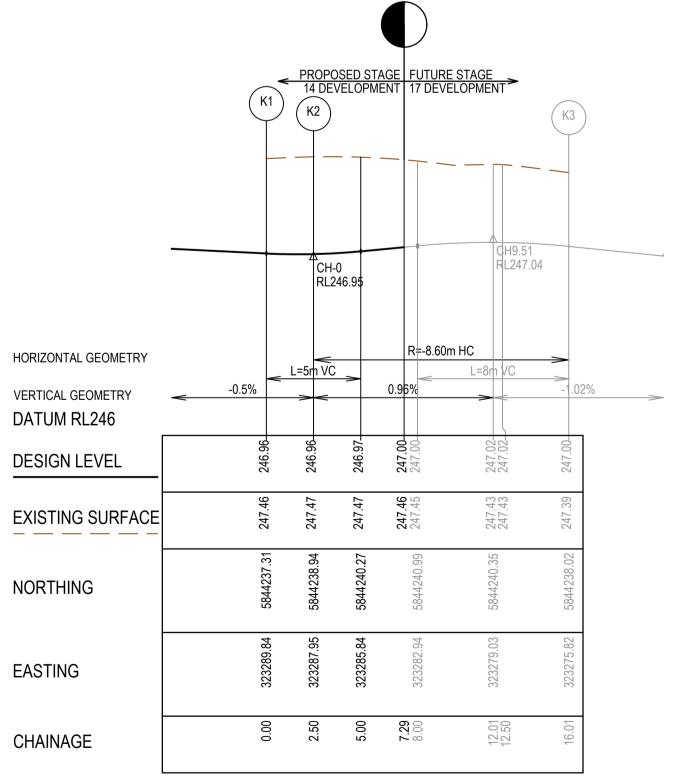


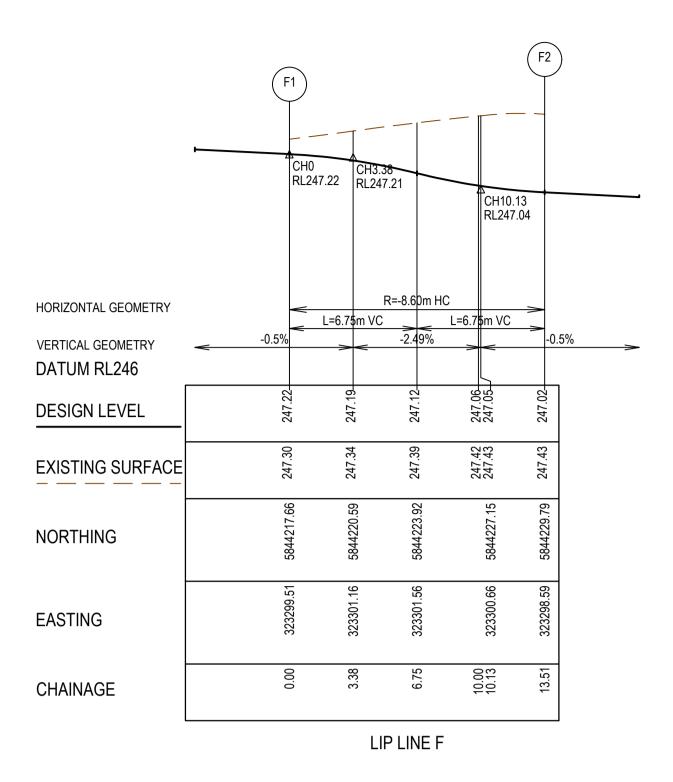


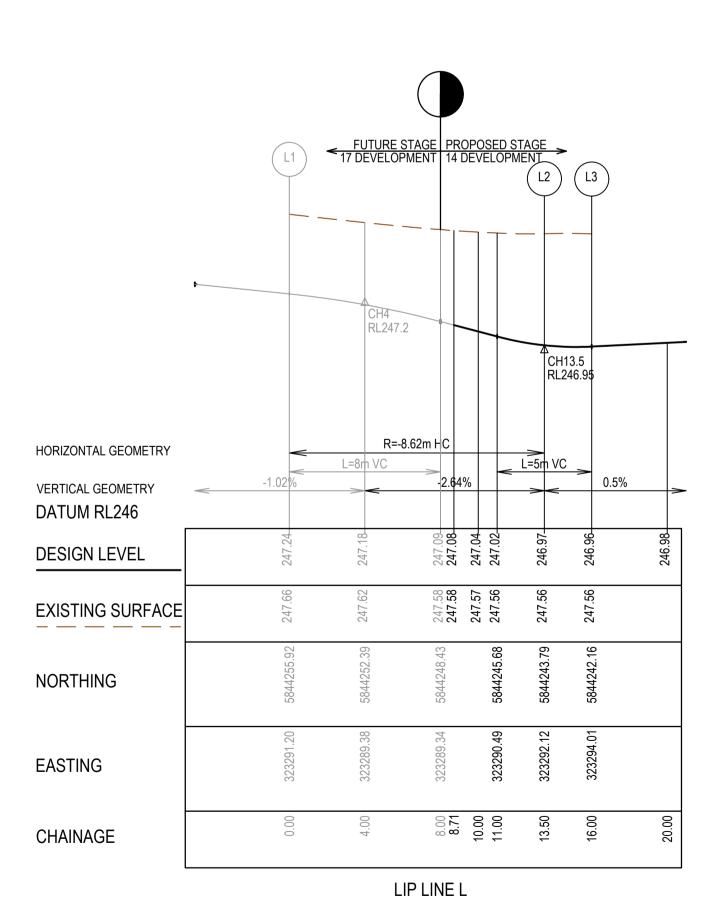
Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Intersection Detail Plan - 1
Lip Profiles A - D

MELWAYS REF | PROJECT / DRAWING No. | 1700E-14-08









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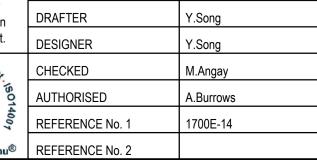
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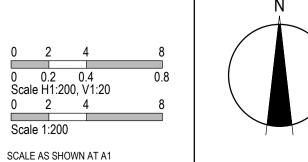






LIP LINE K







Member of the Surbana Jurong Group Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500



Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Intersection Detail Plan - 2 Lip Profiles F, K & L

ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.

VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM

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

□==== | MAIN DRAIN

----H HOUSE DRAIN

LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

STORMWATER DRAIN, PIT

& PROPERTY INLET

SEWER & MAINTENANCE STRUCTURES

SERVICE CONDUITS

EXISTING SEWER & MAINTENANCE

**FUTURE SEWER & MAINTENANCE** 

**EXISTING RETAINING WALL** 

FUTURE RETAINING WALL

EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER PERMANENT SURVEY MARK

TEMPORARY BENCH MARK

PROPOSED DRIVEWAY & FOOTPATH

EXISTING SERVICE CONDUITS

TACTILE PAVERS

□= = = = EXISTING STORMWATER DRAIN

STRUCTURES

EXISTING TACTILE PAVERS FUTURE STORMWATER DRAIN

FUTURE MAIN DRAIN

STRUCTURES FUTURE HOUSE DRAIN FUTURE SERVICE CONDUITS

RETAINING WALL

FUTURE TACTILE PAVERS

 $\square = = = = =$  EXISTING MAIN DRAIN

INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF

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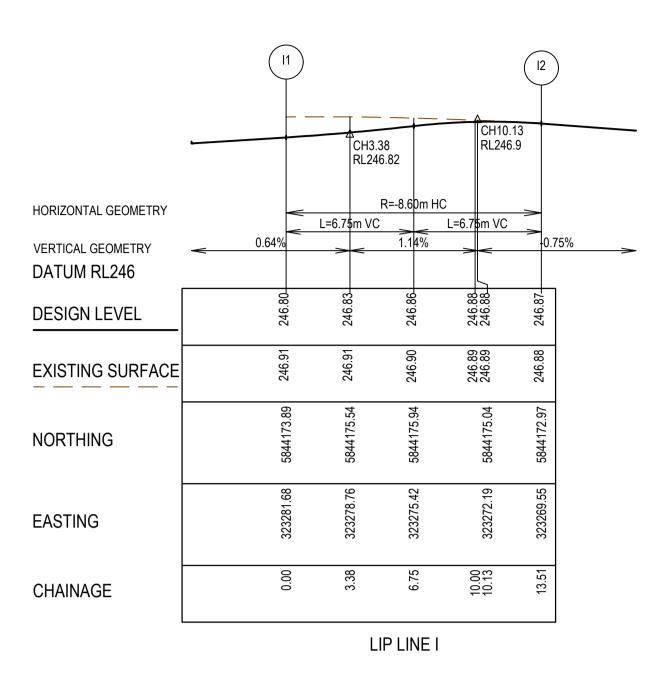
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PART OF THE LANDSCAPE WORKS.

LANDSCAPE WORKS.

PROJECT / DRAWING No. 1700E-14-09 MELWAYS REF



	J1	)			J2	
		— — CH3: RL24		CH10.1		
				RL246.8	82	
HORIZONTAL GEOMETRY	0.750	L=6.75m VC		L=6.75m VC	<b>&gt;</b>	0/
VERTICAL GEOMETRY DATUM RL246	-0.75%	><	-3.01%		0.64	<u>%</u> >
DESIGN LEVEL	247.05-	247.01	246.92-	246.84 246.84	246.80-	
EXISTING SURFACE	246.97	246.96	246.95	246.94 246.94	246.93	
NORTHING	5844190.87	5844187.95	5844184.62	5844181.38	5844178.74	
EASTING	323284.93	323283.28	323282.88	323283.78	323285.85	
CHAINAGE	00:00	3.38	6.75	10.00	13.51	
·		L	IP LINE J			

	E & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY
<b>□</b> === <b>=</b>	STORMWATER DRAIN, PIT & PROPERTY INLET
<b>====</b>	MAIN DRAIN
<b>●</b> S	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
<u> </u>	EXISTING STORMWATER DRAIN
<u> </u>	EXISTING MAIN DRAIN
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	EXISTING SERVICE CONDUITS
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	FUTURE HOUSE DRAIN
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	RETAINING WALL
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	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
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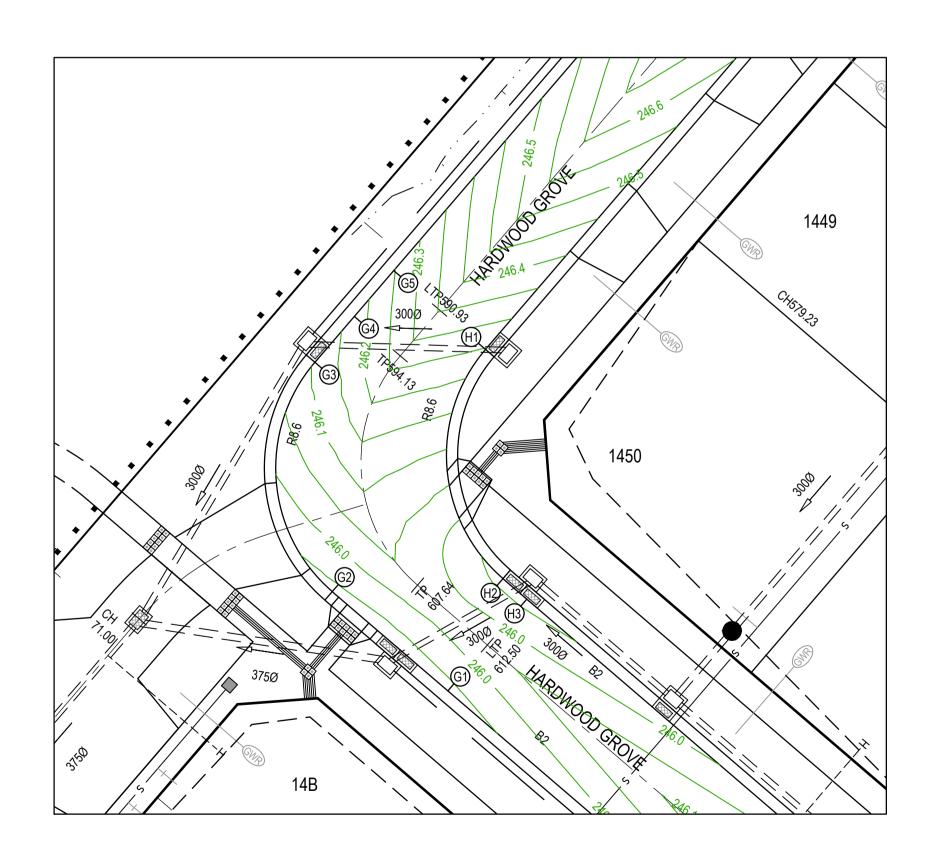
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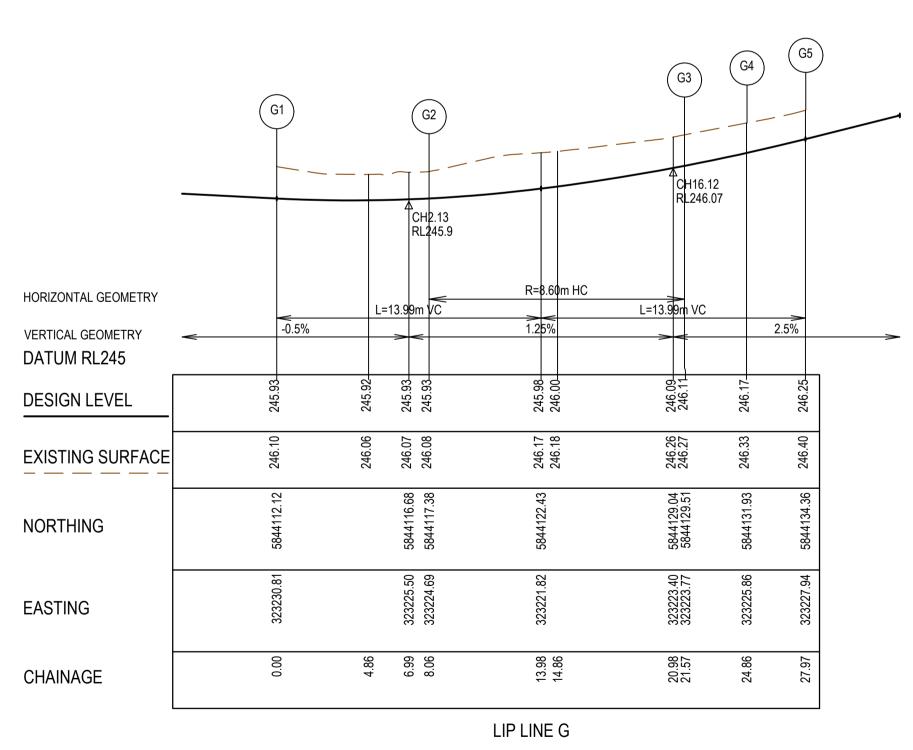
SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.

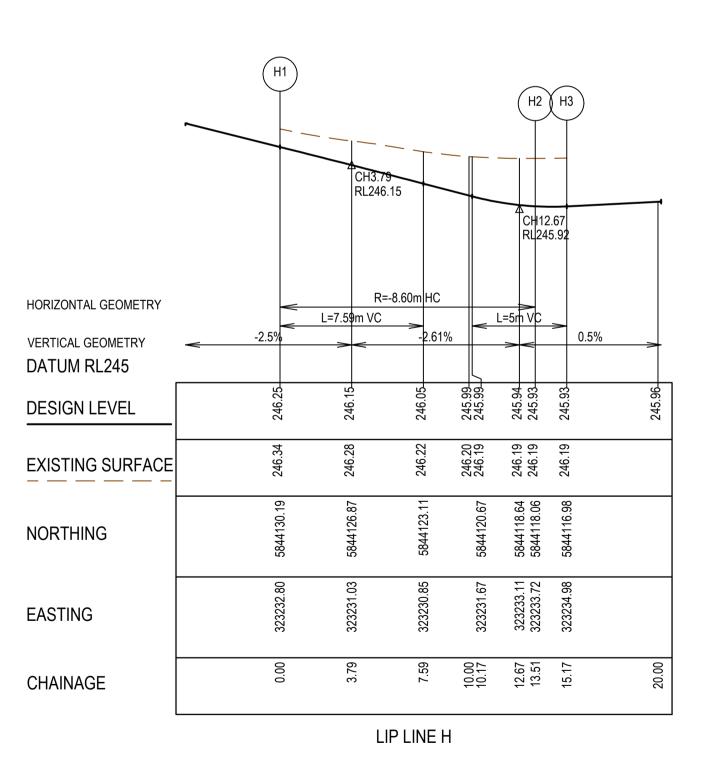
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PART OF THE LANDSCAPE WORKS.

LANDSCAPE WORKS.







### AS CONSTRUCTED PLANS

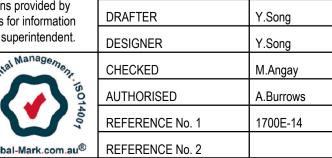
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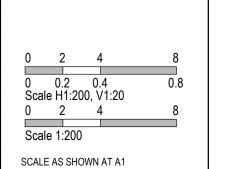
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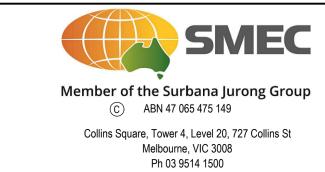
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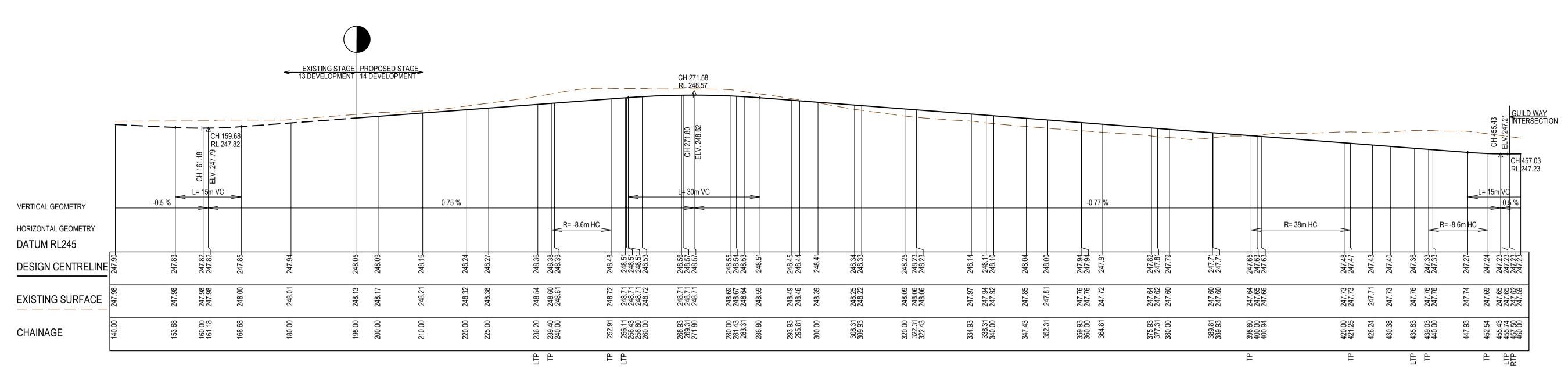




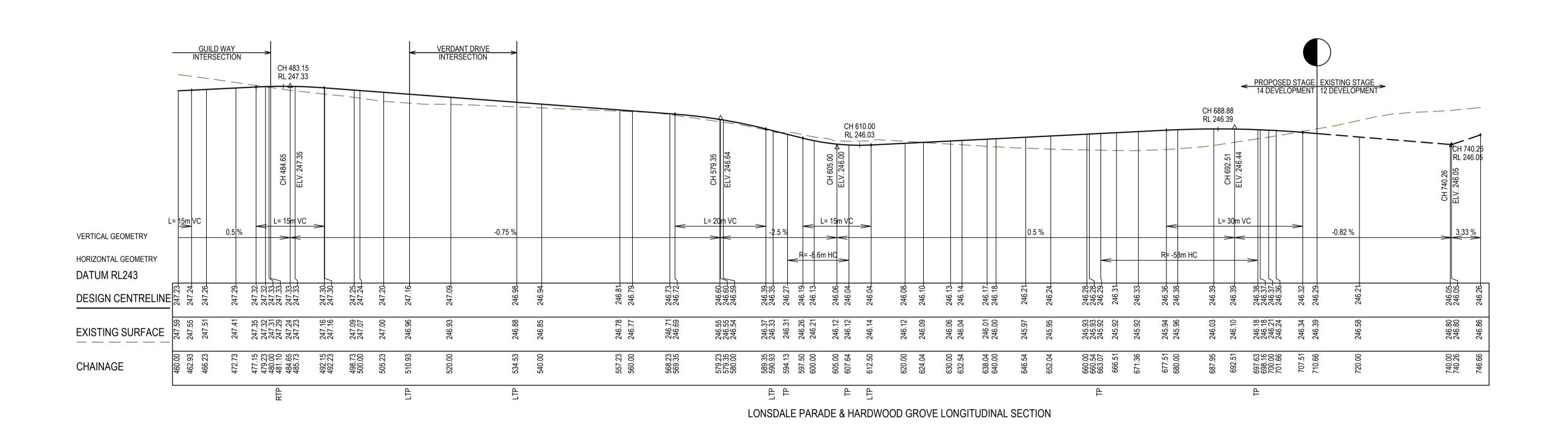


Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Intersection Detail Plan - 3 Lip Profiles I, J, G & H

MELWAYS REF PROJECT / DRAWING No. 1700E-14-10



LONSDALE PARADE & HARDWOOD GROVE LONGITUDINAL SECTION



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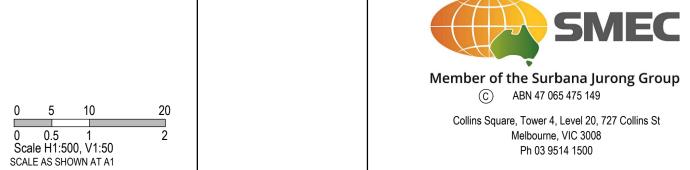
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or information	DRAFTER	Y.Song
uperintendent.	DESIGNER	Y.Song
Management	CHECKED	M.Angay
1501	AUTHORISED	A.Burrows
Management, 19014007	REFERENCE No. 1	1700E-14
al-Mark.com.au®	REFERENCE No. 2	

NAME

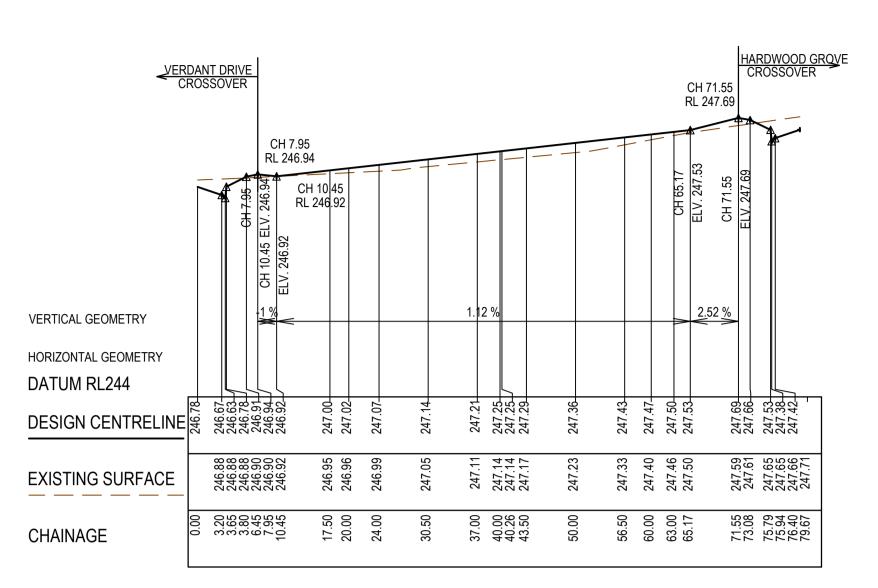




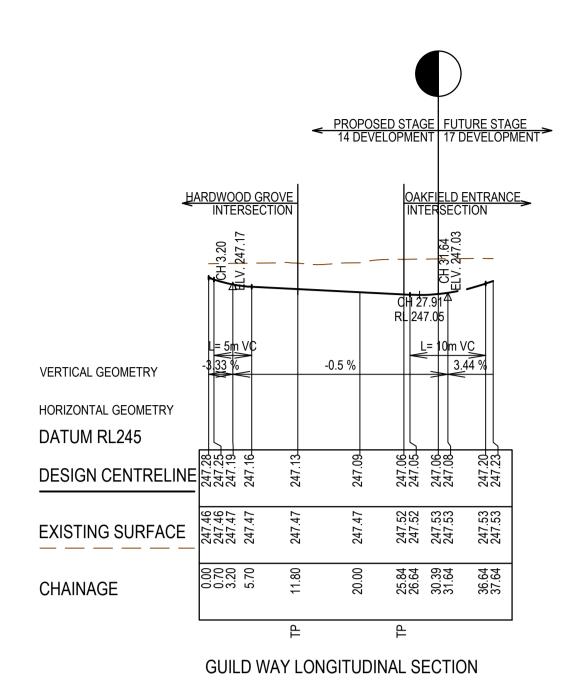
Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 1
Lonsdale Parade & Hardwood Grove

SHEET No. REVISION 1

Lonsdale Parade & Hardwood (PREF | PROJECT / DRAWING No. 2 | 1700E-14-11



BRONZE LANE LONGITUDINAL SECTION



CH 178.374 RL 246.60 문 유 것 는 15m VC L= 15m VC \_ L= 15m VC -0.5 % -0.8 % -0.7 % 0.64 % VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM RL244 246.60-246.60-246.61-246.61-246.62-DESIGN CENTRELINE 12 28 27 246. 246. 246. 246. 246. 246.85 246.86 246.86 246.87 246.87 246.92 246.92 8 88888 93 EXISTING SURFACE ( ) 246.9 246.9 246. 246. 246. 246. 177.12 180.00 181.00 182.60 184.62 198.35 200.00 200.85 205.24 205.24 212.85 213.35 239.05 240.00 .65 .85 CHAINAGE 247. 250.

VERDANT DRIVE LONGITUDINAL SECTION

# AS CONSTRUCTED PLANS

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# AS CONSTRUCTED

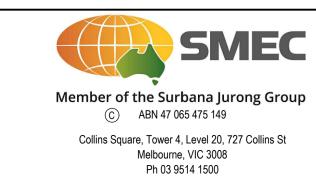
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TITLE	NAME				
DRAFTER	Y.Song				
DESIGNER	Y.Song				
CHECKED	M.Angay				
AUTHORISED	A.Burrows	0	5	10	2
REFERENCE No. 1	1700E-14	0	0.5		2
REFERENCE No. 2				:500, V1:50 SHOWN AT A1	

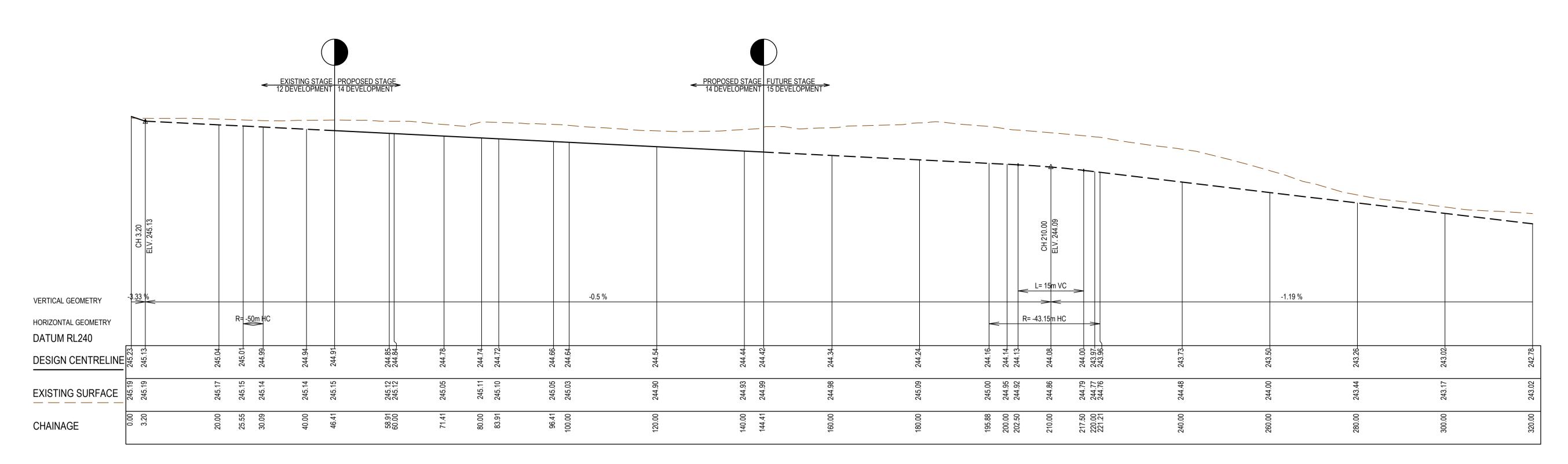




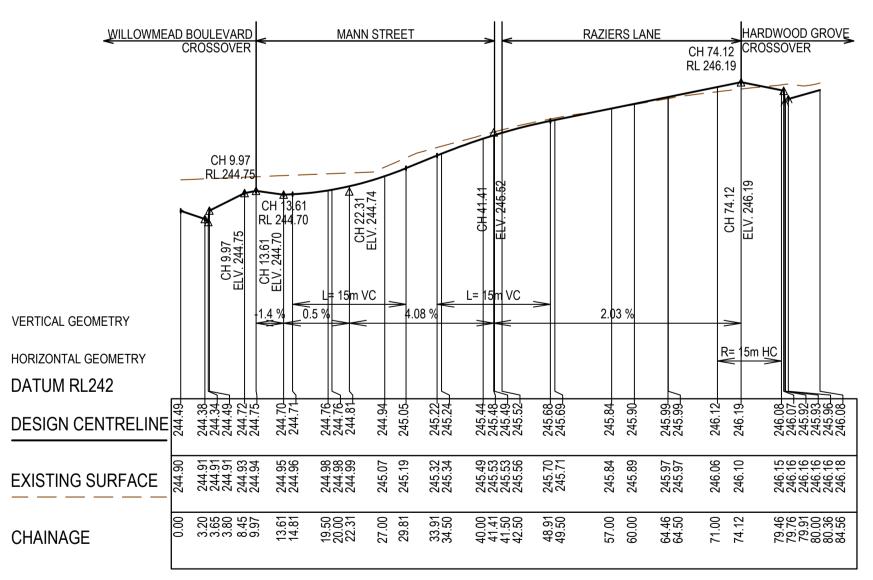
Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 2
Bronze Lane, Guild Way & Verdant Drive

MELWAYS REF PROJECT / DRAWING No. 1700E-14-12

SHEET No. REVISION 12 of 27



WILLOWMEAD BOULEVARD LONGITUDINAL SECTION



MANN STREET & RAZIERS LANE LONGITUDINAL SECTION

# AS CONSTRUCTED PLANS

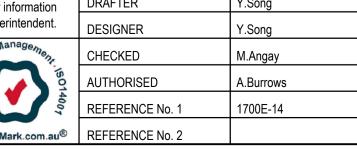
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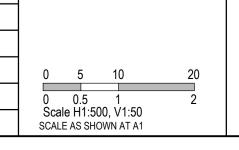
AS CONSTRUCTED

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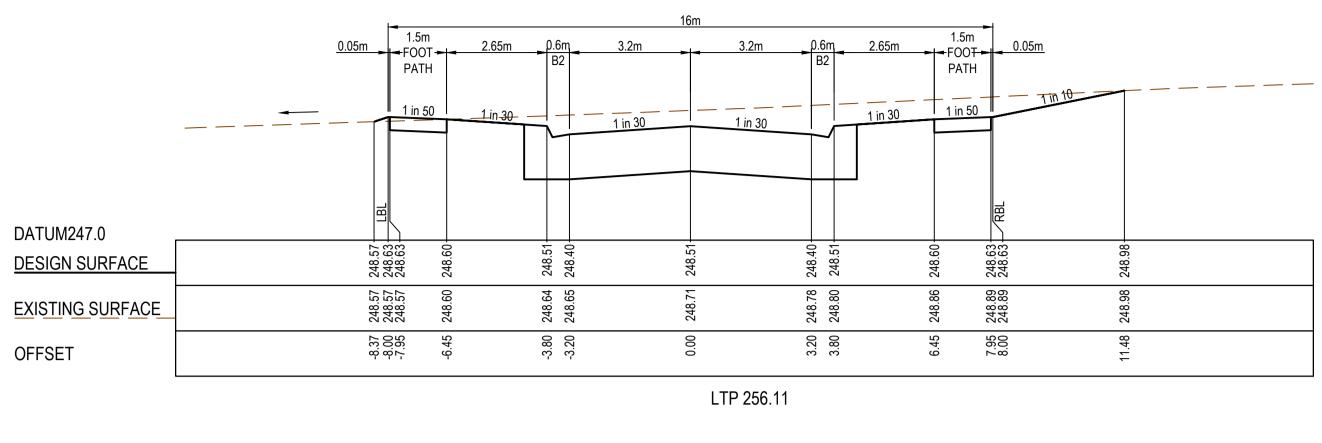




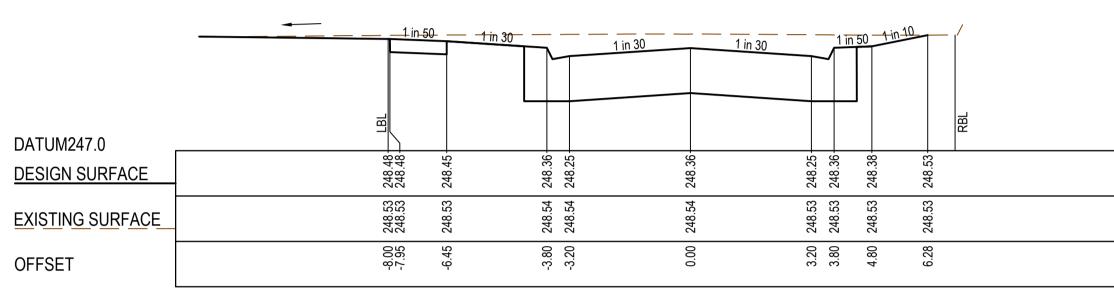
Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 3
Willowmead Boulevard, Mann Street & Raziers Lane

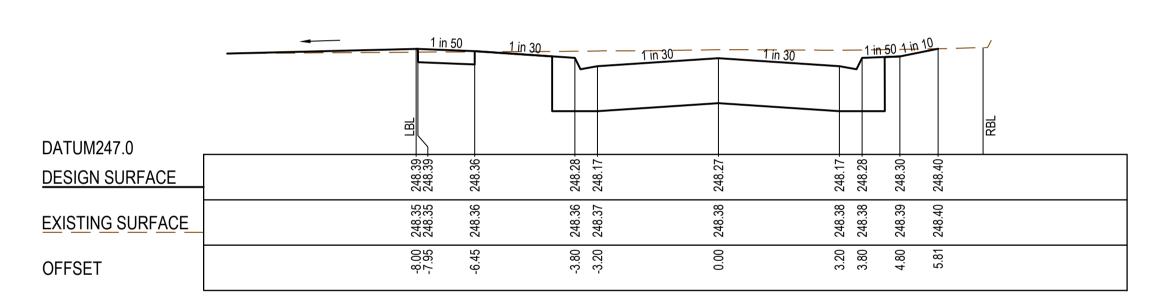
MELWAYS REF | PROJECT / DRAWING No. | 1700E-14-13

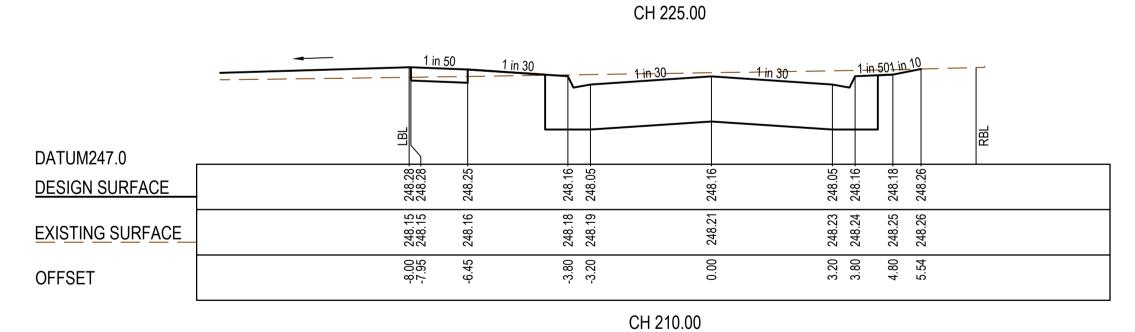
13 of 27 | 1



LTP 236.20







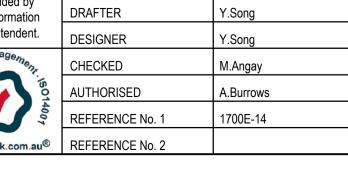
DATUM247.0	 1 in 5	0	1 in 30 1 in	30 <u> </u>	1 in 501 in 10	RBL
DESIGN SURFACE	248.17+	248.14	248.05-	248.05-	247.94 - 248.05 - 248.07 - 248.15 -	
EXISTING SURFACE	248.09 248.09	248.10	248.12	248.13	248.14 248.14 248.15 248.15	
OFFSET	-8.00 -7.95	-6.45	-3.20	0.00	3.20 3.80 4.80 5.60	

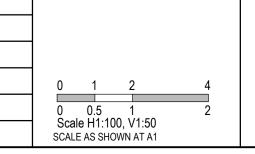
AS CONSTRUCTED PLANS All setting out should be carried out in accordance with MPA/Council's The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have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

CH 195.00









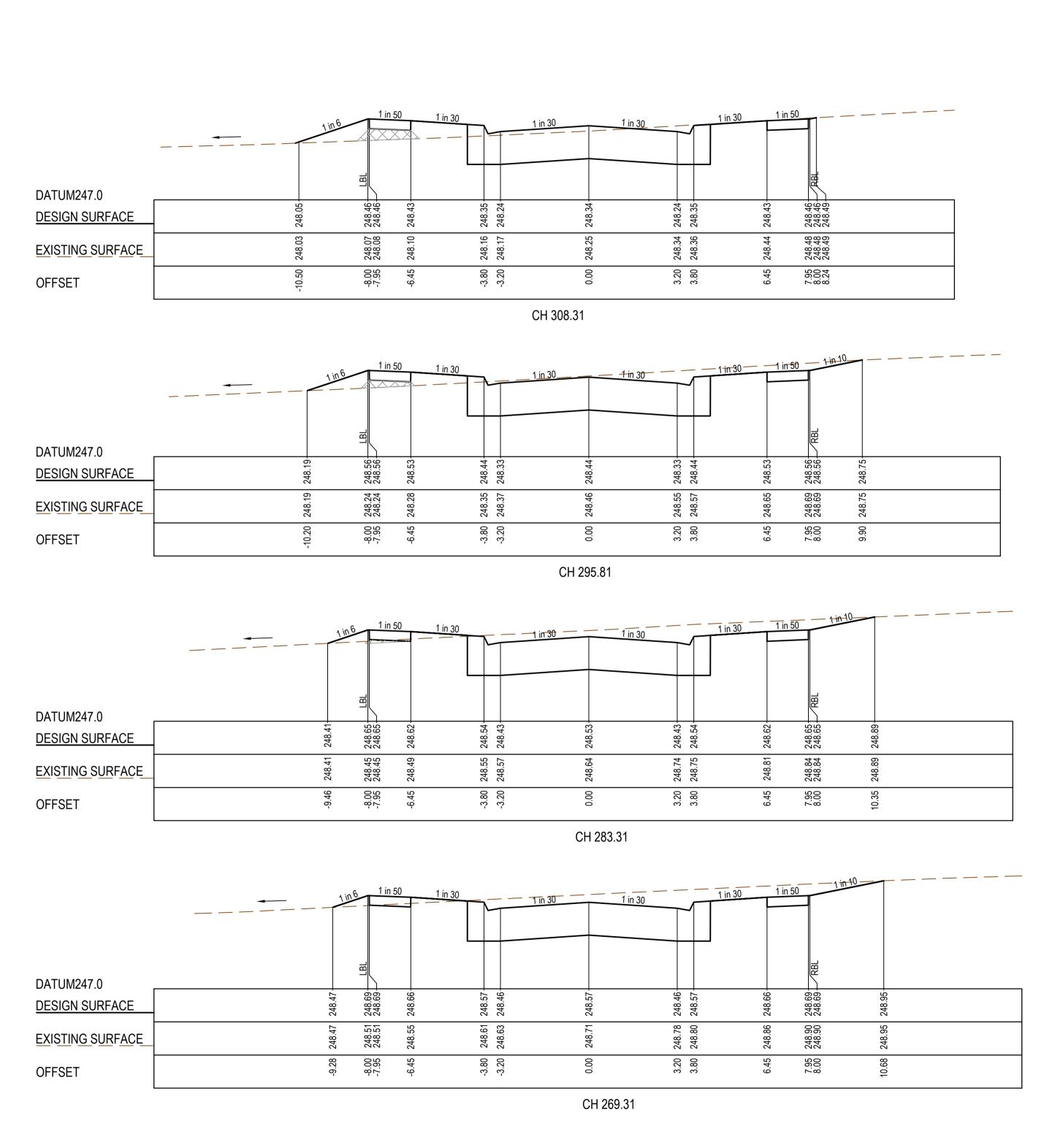


Ph 03 9514 1500



Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Cross Sections: Lonsdale Parade & Hardwood Grove

Ch. 195.00 - Ch 308.31 MELWAYS REF | PROJECT / DRAWING No. | 1700E-14-14 SHEET No. REVISION 14 of 27

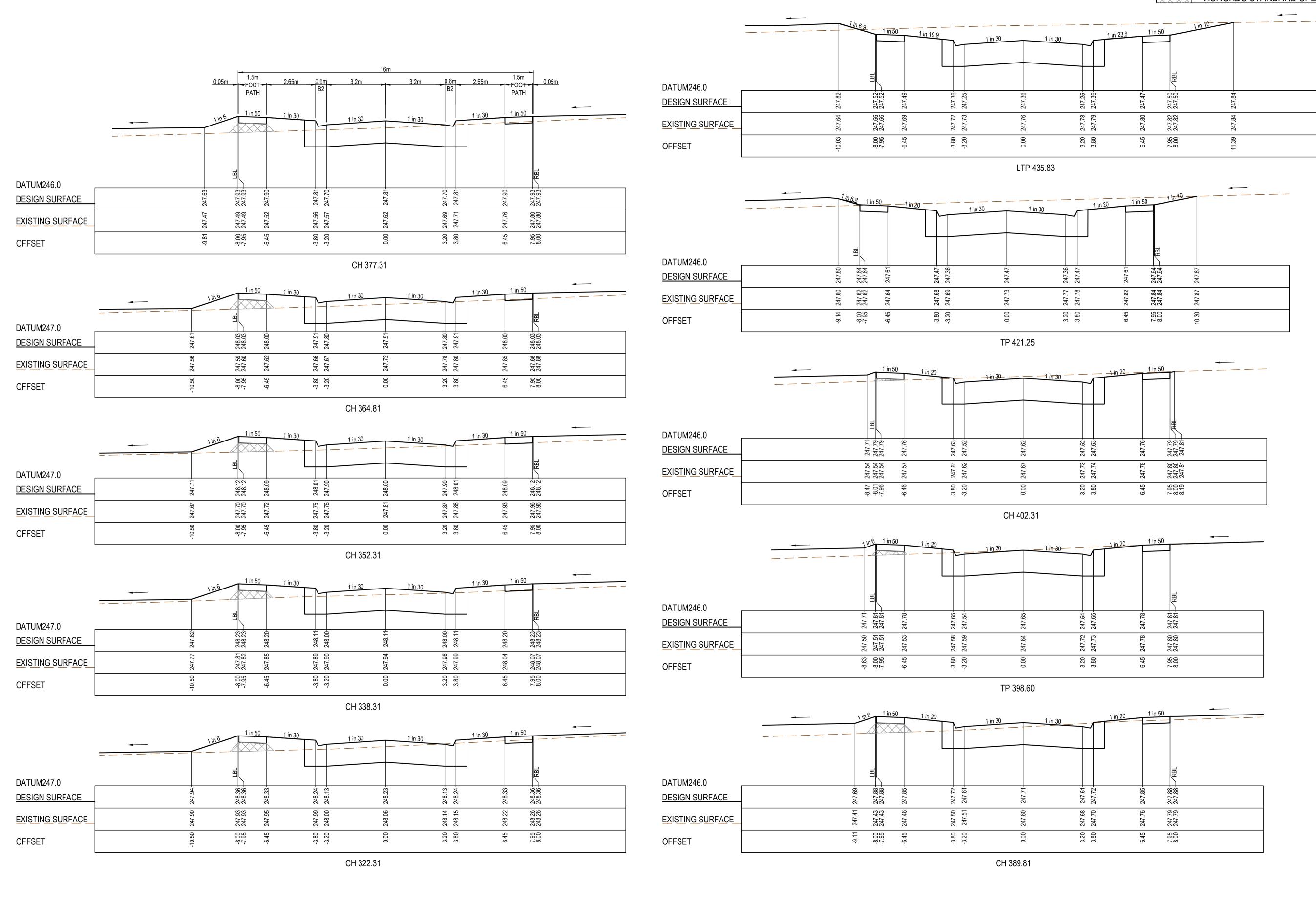


#### DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-14\Dwgs\1700E-14-14.dwg PRINTED BY: LM15663 on 04/02/2022 at 02:08:10 PM

inappropriate usage of these plans.

AS CONSTRUCTED





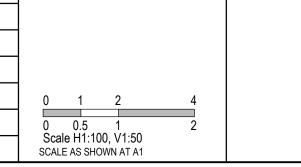
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AS CONSTRUCTED

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e is for information	DRAFTER	Y.Song
ne superintendent.	DESIGNER	Y.Song
Management (901400)	CHECKED	M.Angay
800	AUTHORISED	A.Burrows
4007	REFERENCE No. 1	1700E-14
Global-Mark.com.au®	REFERENCE No. 2	
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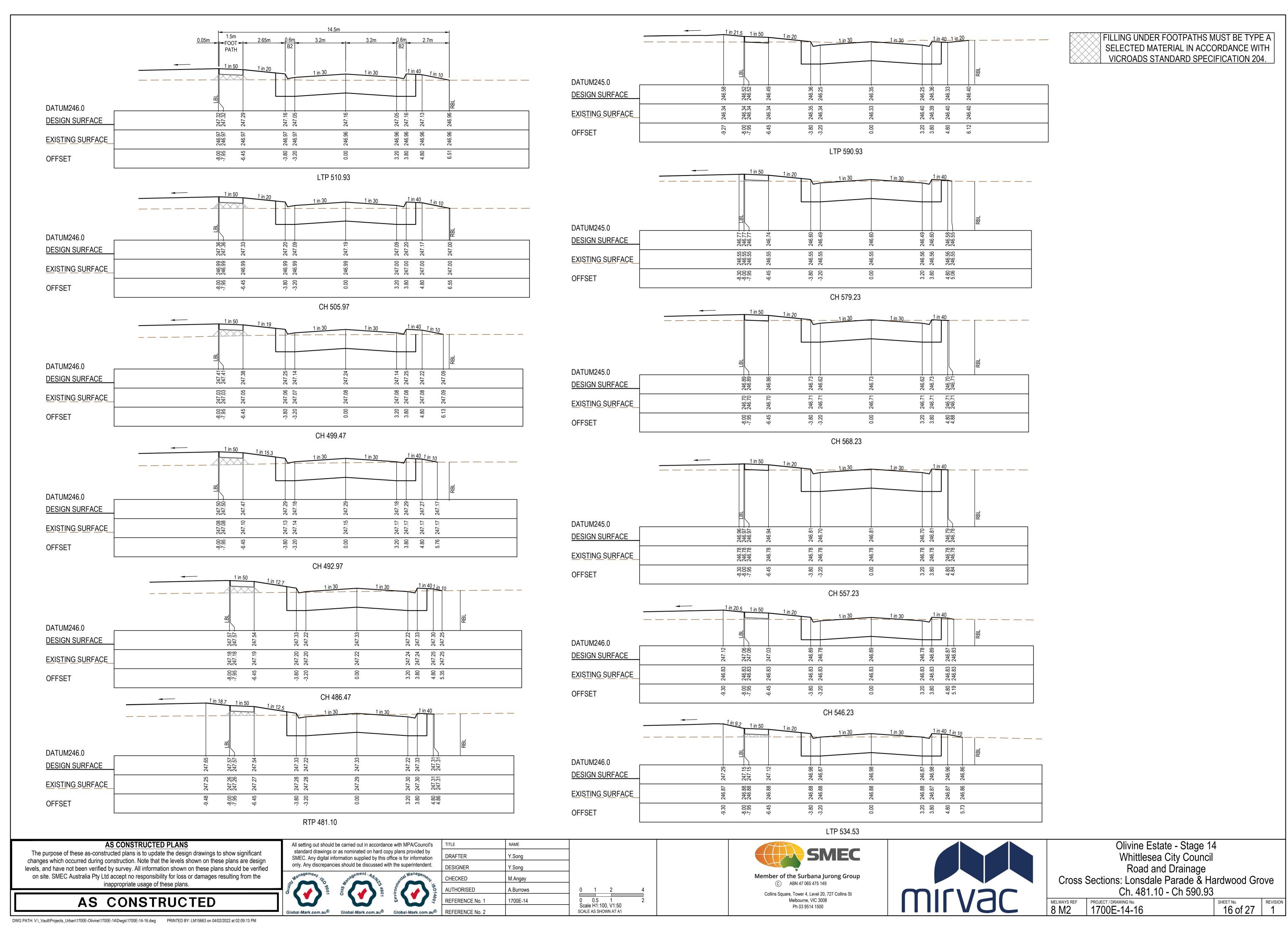




Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Cross Sections: Lonsdale Parade & Hardwood Grove

Ch. 322.31 - Ch 435.83 MELWAYS REF 8 M2 PROJECT / DRAWING No. 1700E-14-15

SHEET No. REVISION 15 of 27

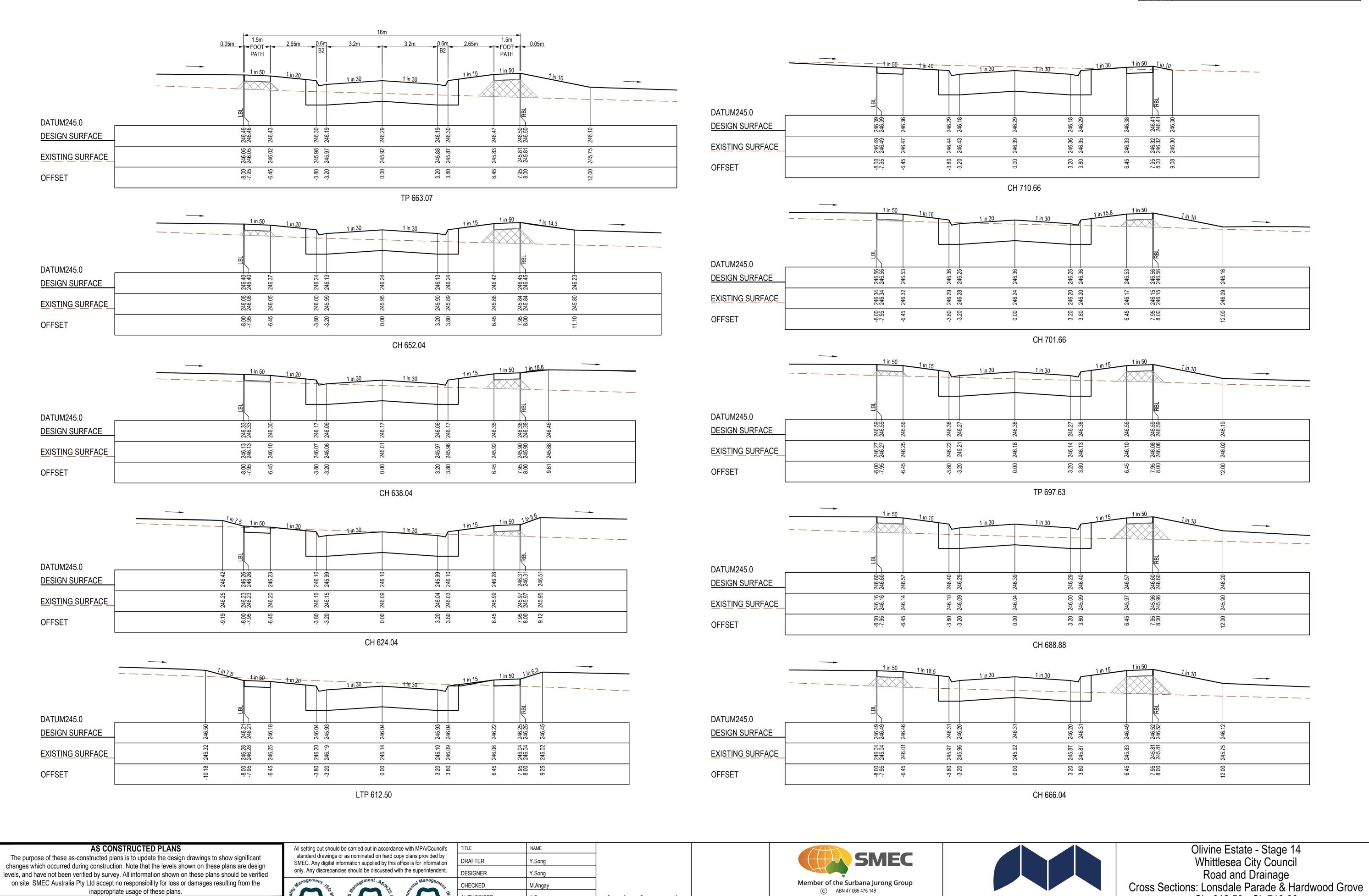


Ch. 612.50 - Ch 710.66

SHEET No. REVISION 17 of 27

MELWAYS REF PROJECT / DRAWING No.

1700E-14-17



Member of the Surbana Jurong Group

Collins Square, Tower 4, Level 20, 727 Collins St

Melbourne, VIC 3008

Ph 03 9514 1500

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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

SMEC. Any digital information supplied by this office is for information

only. Any discrepancies should be discussed with the superintendent.

M.Angay

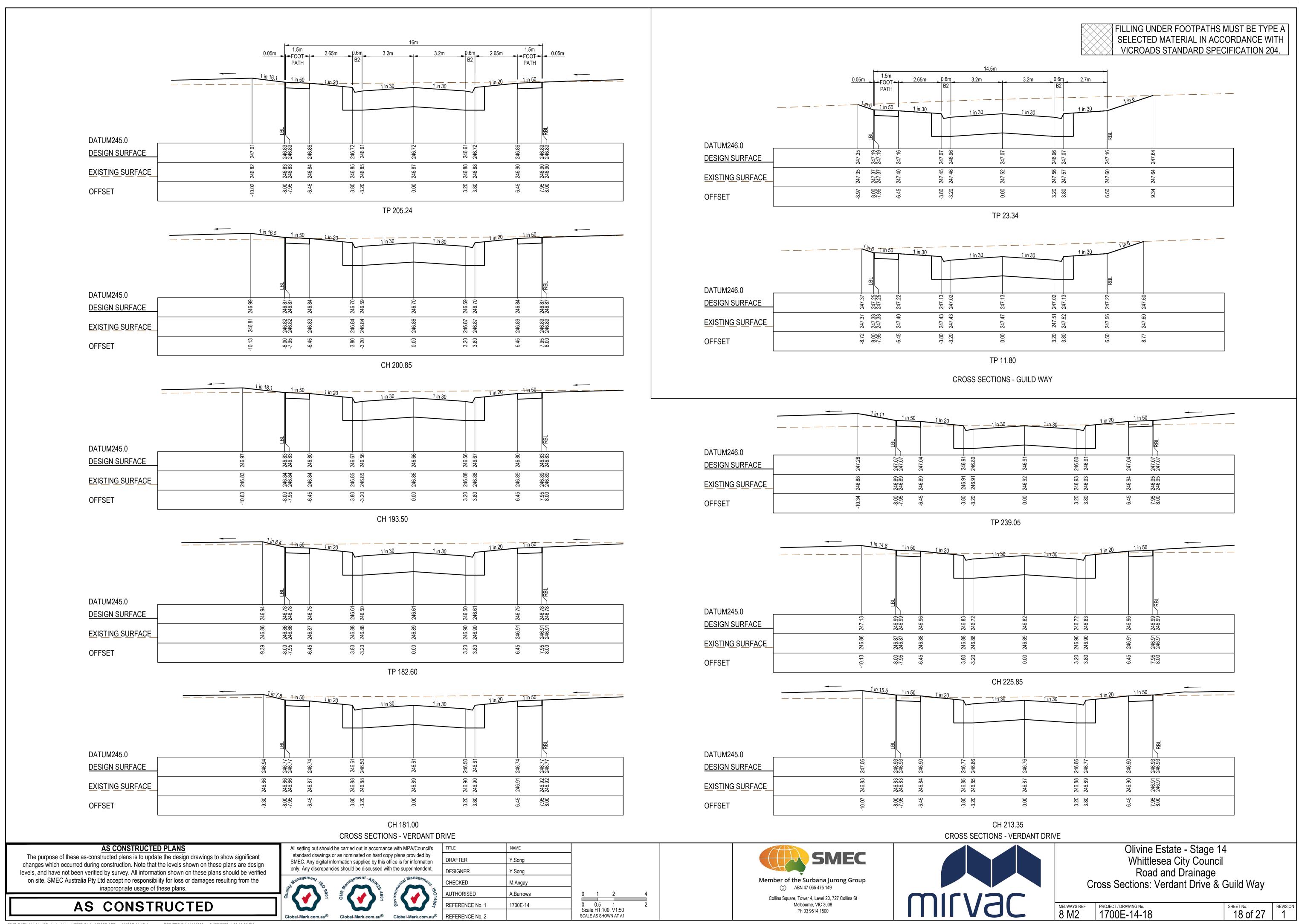
A.Burrows

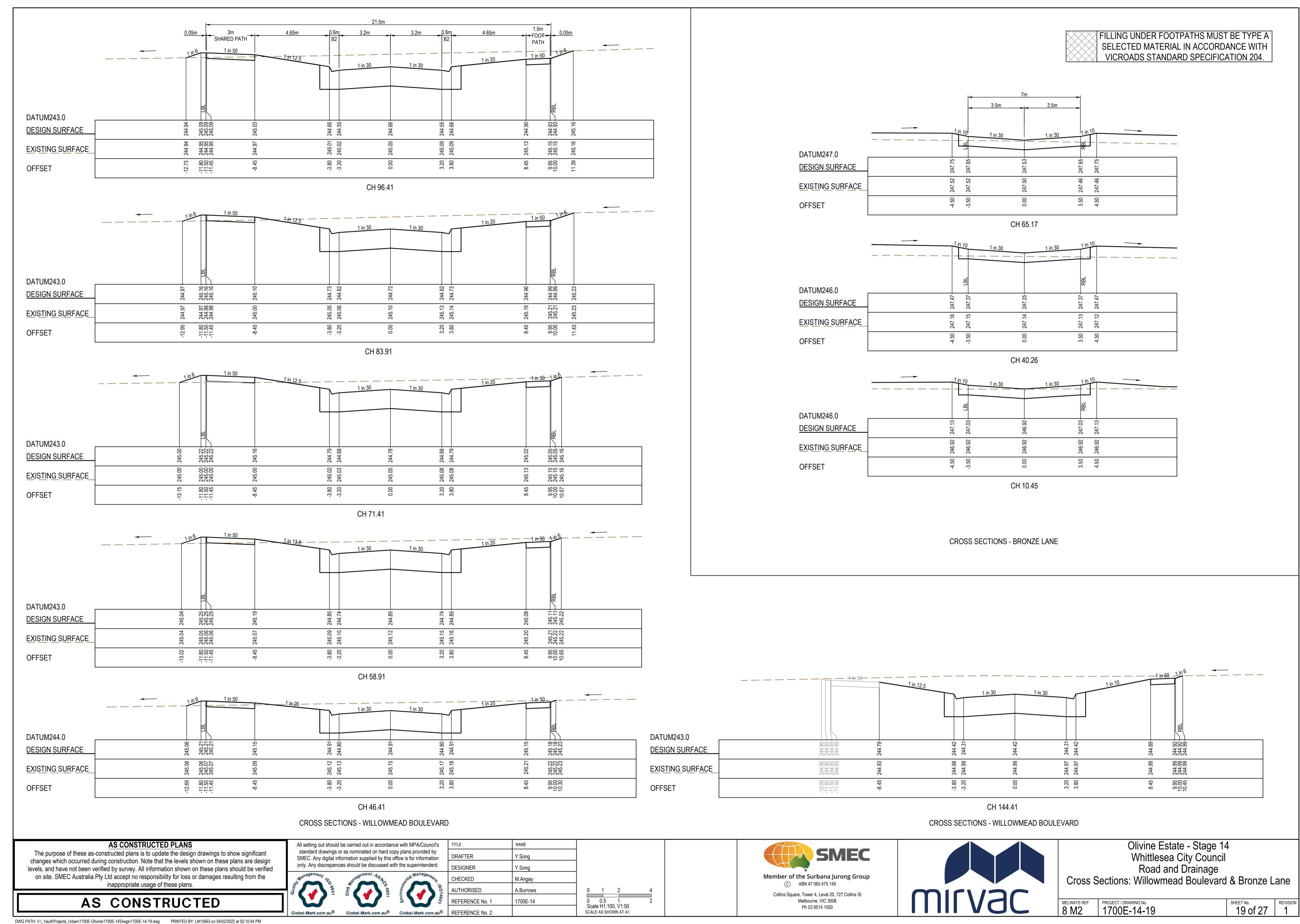
1700E-14

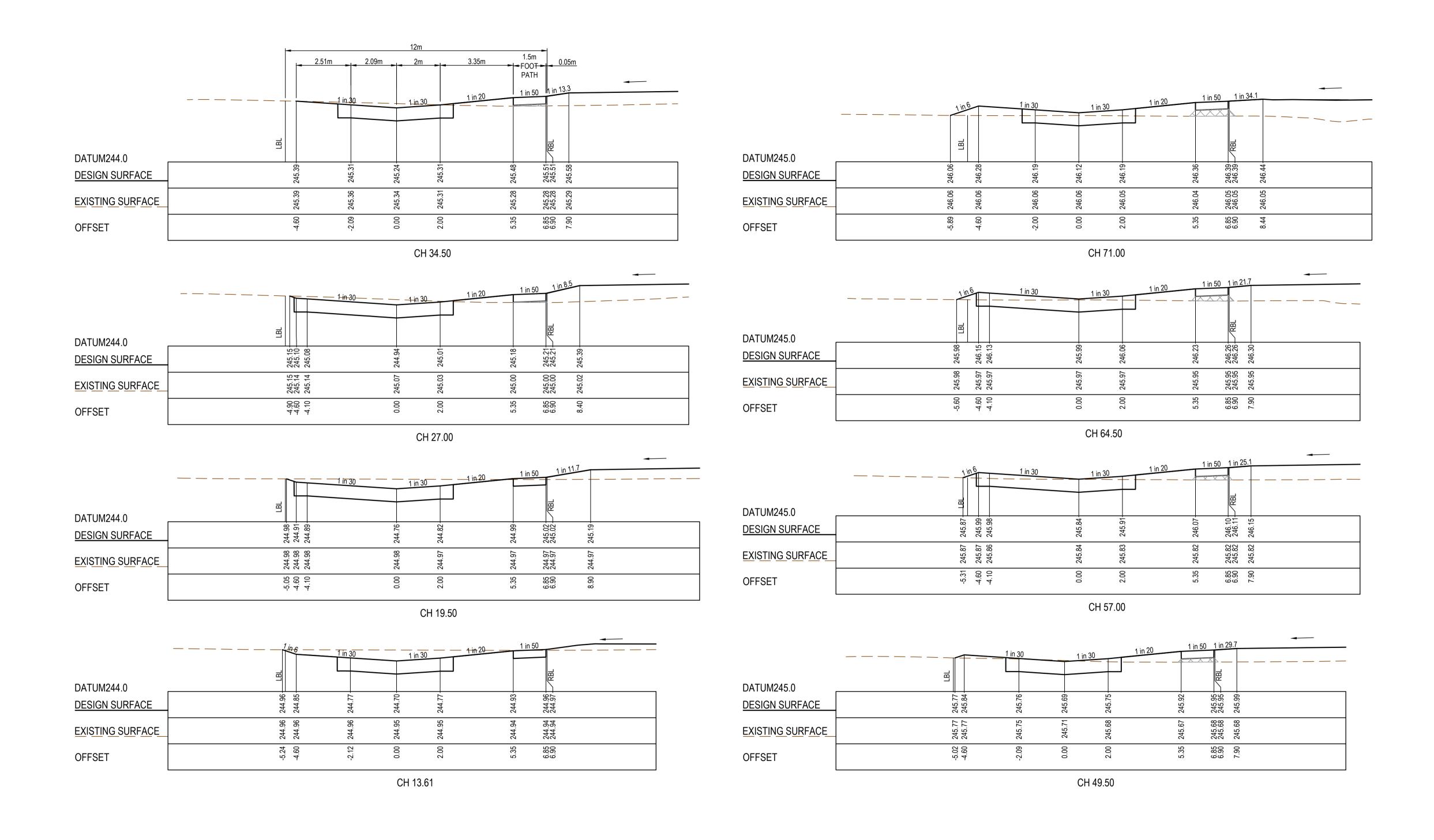
0 0.5 1 Scale H1:100, V1:50 SCALE AS SHOWN AT A1

AUTHORISED

REFERENCE No. 1





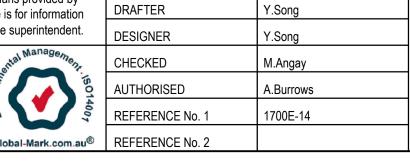


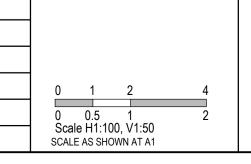
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# AS CONSTRUCTED











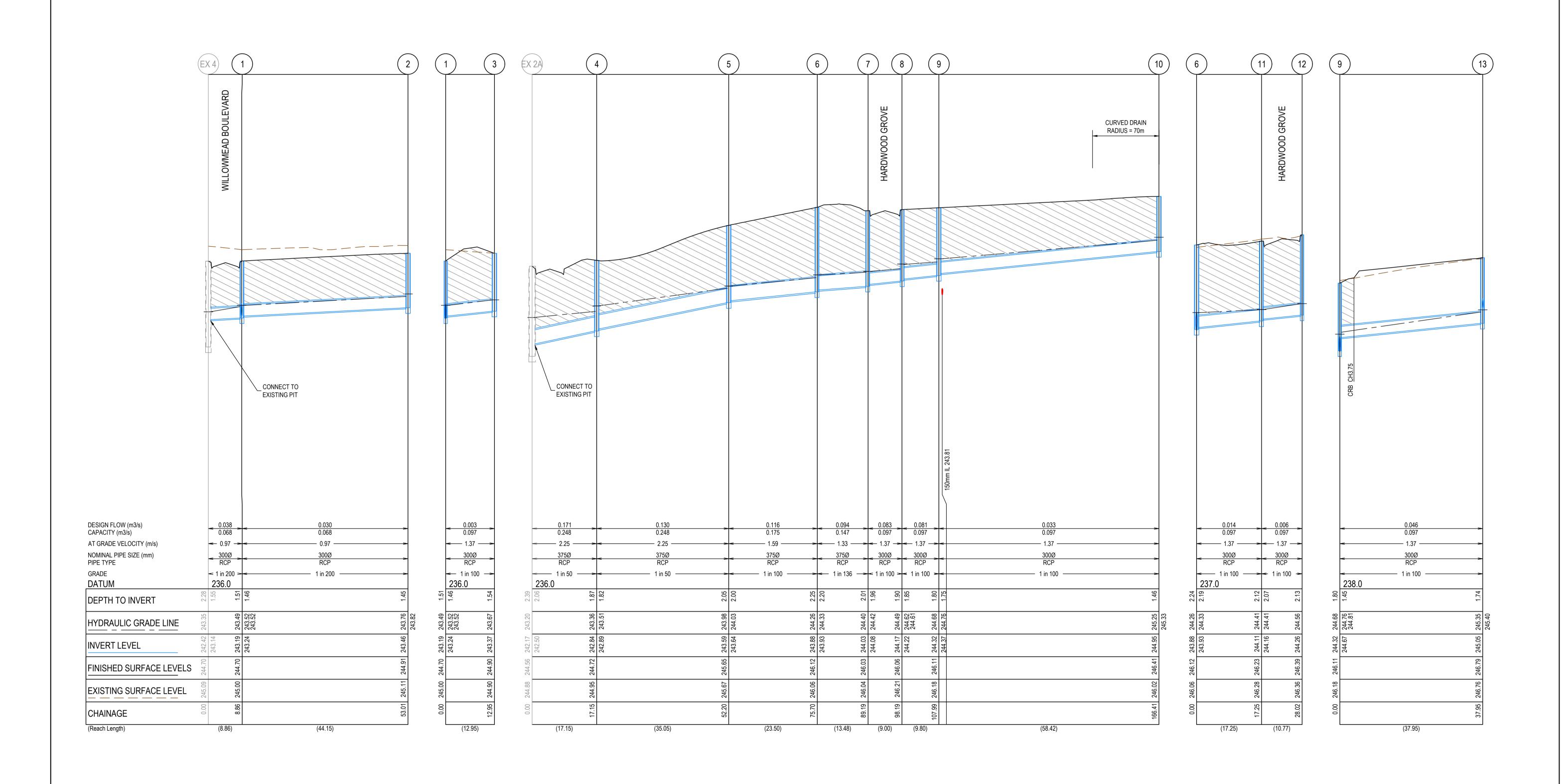
Ph 03 9514 1500



Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Cross Sections: Mann Lane & Raziers Lane

MELWAYS REF

8 M2 PROJECT / DRAWING No. 1700E-14-20 SHEET No. REVISION 2 2



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

# AS CONSTRUCTED PLANS

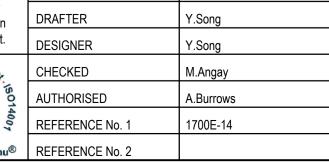
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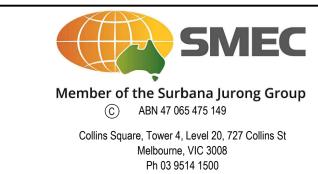
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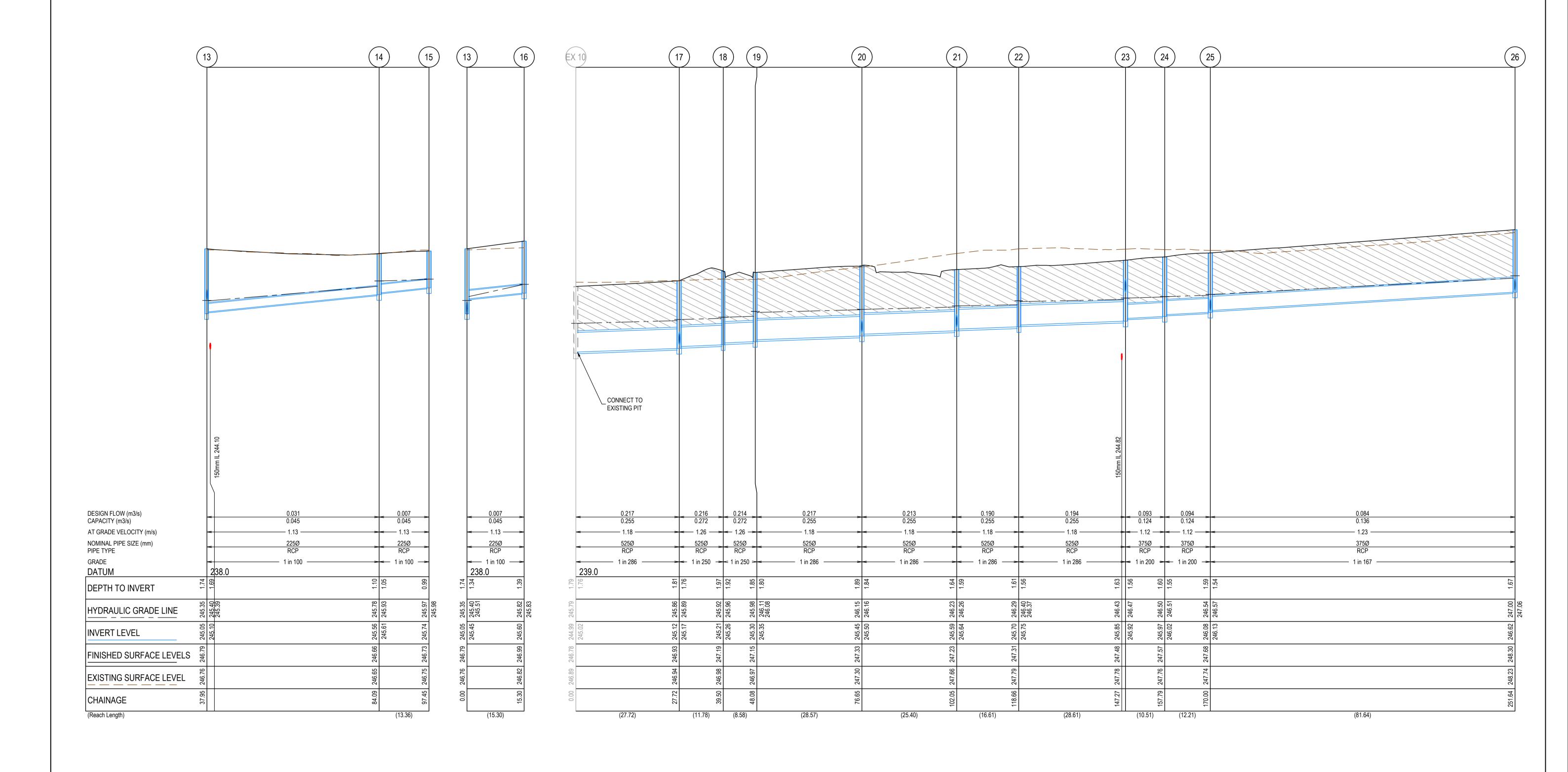


Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 1

MELWAYS REF PROJECT / DRAWING No. 1700E-14-21

SHEET No. REVISION 1

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AS CONSTRUCTED

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ental Management	CHECKE
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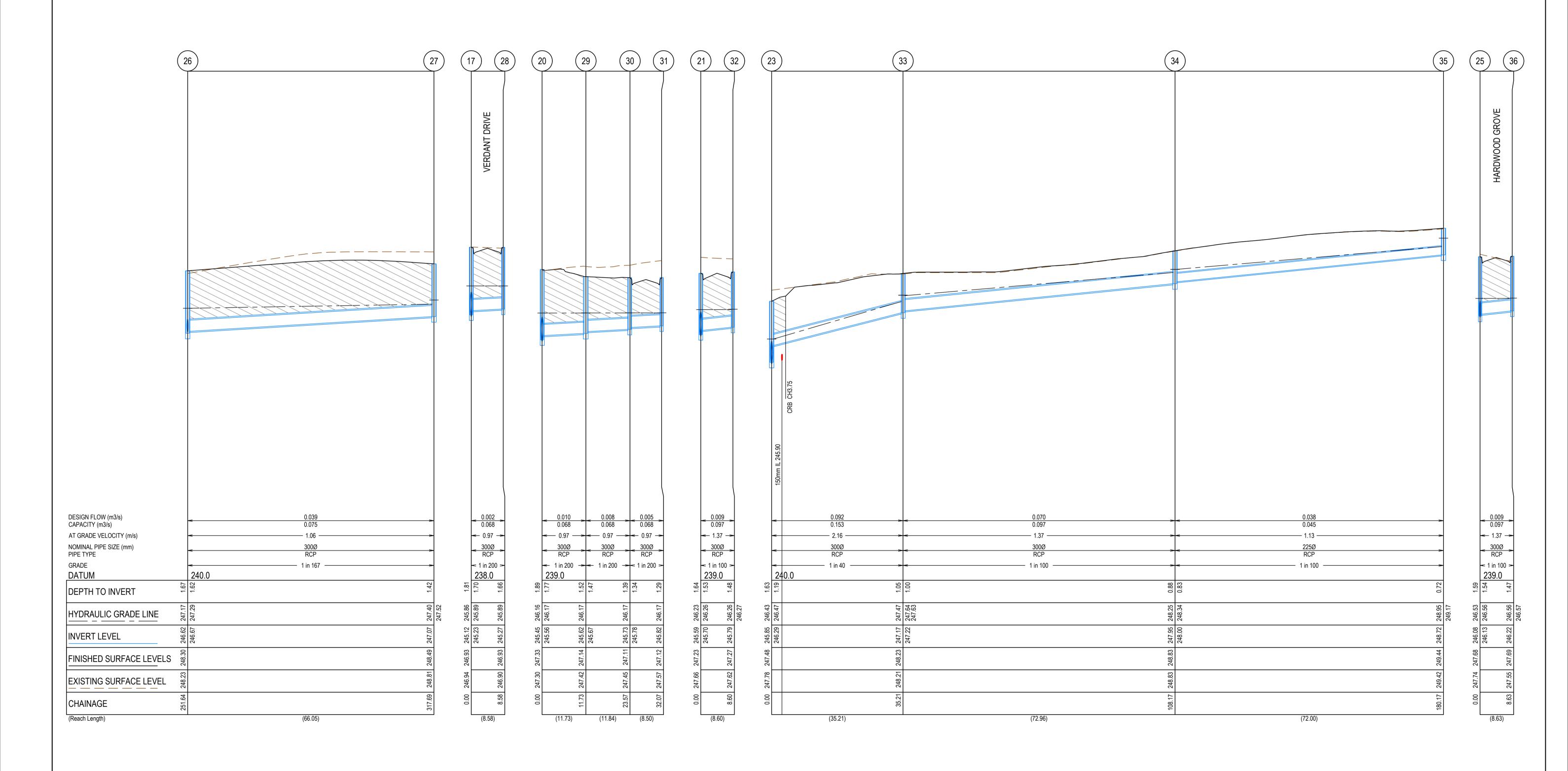
ncil's	TITLE	NAME
by ation	DRAFTER	Y.Song
dent.	DESIGNER	Y.Song
nene	CHECKED	M.Angay
Nent 15014007	AUTHORISED	A.Burrows
4007	REFERENCE No. 1	1700E-14
m.au®	REFERENCE No. 2	

SMEC Member of the Surbana Jurong Group
© ABN 47 065 475 149 0 5 10 20 0 0.5 1 2 Scale H1:500, V1:50 SCALE AS SHOWN AT A1 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500



Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 2

PROJECT / DRAWING No. 1700E-14-22 MELWAYS REF



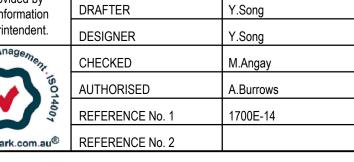
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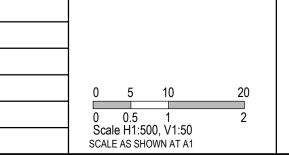
AS CONSTRUCTED

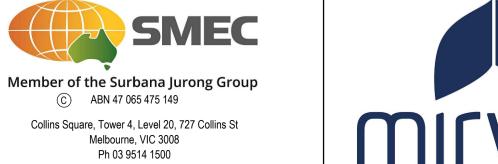
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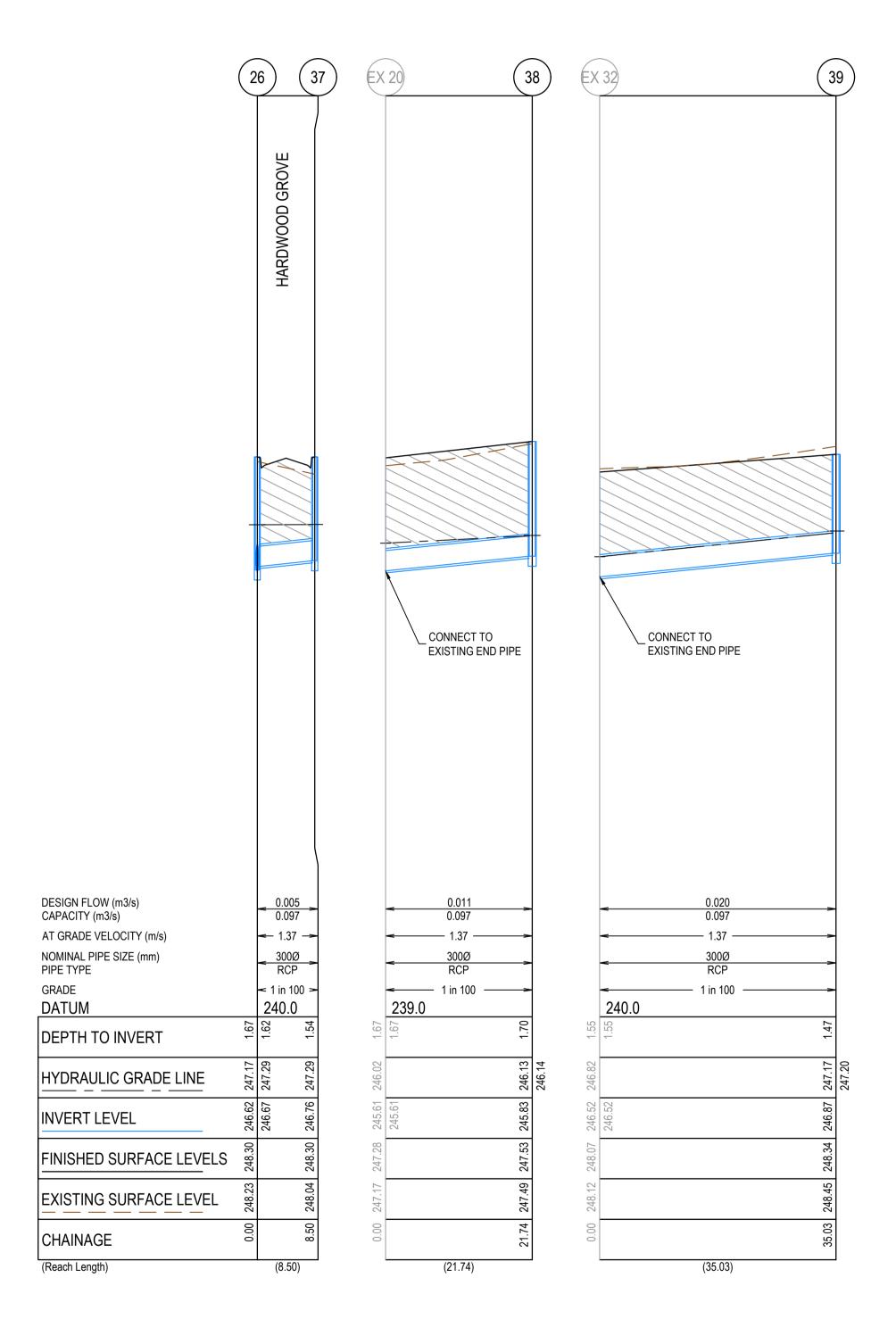


Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 3

PROJECT / DRAWING No. 1700E-14-23 MELWAYS REF

SHEET No. 23 of 27

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



						PIT SCHEDULE					_
PIT NUMBER	TYPE	INTER WIDTH (mm)		INL DIAMETER (mm)	ET INV R.L. (m)	OUT DIAMETER (mm)	INV R.L. (m)	F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
Ex 4	Ex	1200	900	300	243.14			244.7	2.28		CONNECT TO EXISTING PIT
1	GRATED ENTRY PIT	600	900	300 300	243.24	300	243.19	244.7	1.51	EDCM 601 & 605	
2	GRATED ENTRY PIT	600	900	300	243.24	300	243.46	244.91	1.45	EDCM 601 & 605	
3	JUNCTION PIT	600	900			300	243.37	244.91	1.54	EDCM 605	PIT LID TO BE UPGRADED WITH CONSTRUCTION OF FUTURE LANEWAY
Ex 2A	Ex	1500	900	375	242.5			244.56	2.39		CONNECT TO EXISTING PIT
4	GRATED PIT	900	600	375	242.89	375	242.84	244.72	1.87	EDCM 605	GRATED JUNCTION PIT LID. REFER DETA
5	GRATED PIT	900	600	375	243.64	375	243.59	245.65	2.05	EDCM 605	GRATED JUNCTION PIT LID. REFER DETA
6	GRATED PIT	900	600	375	243.93	375	243.88	246.12	2.25	EDCM 605	GRATED JUNCTION PIT LID. REFER DETA
				300	243.93						
7	DOUBLE GRATED ENTRY PIT	600	900	300	244.08	375	244.03	246.03	2.01	EDCM 602 & 605	
8	DOUBLE GRATED ENTRY PIT	600	900	300	244.22	300	244.17	246.06	1.9	EDCM 602 & 605	
9	GRATED ENTRY PIT	600	900	300	244.37	300	244.32	246.11	1.8	EDCM 601 & 605	
				300	244.67						
10	GRATED ENTRY PIT	600	900			300	244.95	246.41	1.46	EDCM 601 & 605	
11	GRATED ENTRY PIT	600	900	300	244.16	300	244.11	246.23	2.12	EDCM 601 & 605	
12	GRATED ENTRY PIT	600	900	005	045.4	300	244.26	246.39	2.13	EDCM 601 & 605	
13	JUNCTION PIT	600	900	225 225	245.1 245.45	300	245.05	246.79	1.74	EDCM 605	
14	JUNCTION PIT	600	900	225	245.45	225	245.56	246.66	1.1	EDCM 605	
15	JUNCTION PIT	600	900	223	243.01	225	245.74	246.73	0.99	EDCM 605	
16	JUNCTION PIT	600	900			225	245.6	246.73	1.39	EDCM 605	
Ex 10	GRATED ENTRY PIT	750	900	525	245.02	225	243.0	246.78	1.79	EDOW 003	
17	GRATED ENTRY PIT	750	1050	525	245.17	525	245.12	246.93	1.81	EDCM 601 & 607	HAUNCH PIT COVER TO 600x900
				300	245.23						
18	GRATED ENTRY PIT	600	900	525	245.26	525	245.21	247.19	1.97	EDCM 601 & 605	
19	GRATED ENTRY PIT	900	750	525	245.35	525	245.3	247.15	1.85	EDCM 601 & 607	HAUNCH PIT COVER TO 600x900
20	GRATED ENTRY PIT	750	900	525	245.5	525	245.45	247.33	1.89	EDCM 601 & 607	HAUNCH PIT COVER TO 600x900
				300	245.56						
21	DOUBLE SIDE ENTRY PIT	750	900	525	245.64	525	245.59	247.23	1.64	EDCM 602 & 607	HAUNCH PIT COVER TO 600x900
				300	245.7						
22	JUNCTION PIT	900	900	525	245.75	525	245.7	247.31	1.61	EDCM 605	
23	GRATED ENTRY PIT	900	900	375	245.92	525	245.85	247.48	1.64	EDCM 601 & 605	HAUNCH PIT COVER TO 600x900
				300	246.29						
24	GRATED ENTRY PIT	600	900	375	246.02	375	245.97	247.57	1.6	EDCM 601 & 605	
25	GRATED ENTRY PIT	600	900	300	246.13 246.13	375	246.08	247.68	1.59	EDCM 601 & 605	
26	GRATED ENTRY PIT	600	900	300 300	246.13	300	246.62	248.3	1.67	EDCM 601 & 605	
20	GIVATED EIVITAT TIT	000	300	300	246.67	300	240.02	240.0	1.07	LDOW 001 & 003	
27	GRATED ENTRY PIT	600	900			300	247.07	248.49	1.42	EDCM 601 & 605	
28	GRATED ENTRY PIT	600	900			300	245.27	246.93	1.66	EDCM 601 & 605	
29	GRATED ENTRY PIT	600	900	300	245.67	300	245.62	247.14	1.52	EDCM 601 & 605	
30	DOUBLE GRATED ENTRY PIT	600	900	300	245.78	300	245.73	247.11	1.39	EDCM 602 & 605	
31	DOUBLE GRATED ENTRY PIT	600	900			300	245.82	247.12	1.29	EDCM 602 & 605	
32	DOUBLE GRATED ENTRY PIT	600	900			300	245.79	247.27	1.48	EDCM 602 & 605	
33	JUNCTION PIT	600	900	300	247.22	300	247.17	248.23	1.05	EDCM 605	
34	JUNCTION PIT	600	900	225	248	300	247.95	248.84	0.88	EDCM 605	
35 36	JUNCTION PIT GRATED ENTRY PIT	600 600	900			225 300	248.72 246.22	249.44 247.69	0.72 1.47	EDCM 605 EDCM 601 & 605	
37	GRATED ENTRY PIT	600	900			300	246.22	247.69	1.47	EDCM 601 & 605	
Ex 20	ENDPIPE	000	300	300	245.61	300	270.70	246.3	1.67	LDOW OUT & OUS	CONNECT TO EXISTING END PIPE
38	GRATED PIT	600	900	300	210.01	300	245.83	247.53	1.7	EDCM 605	GRATED JUNCTION PIT LID. REFER DETA
Ex 32	ENDPIPE	. 555		300	246.52		= :0:00	248.07	1.55		CONNECT TO EXISTING END PIPE
39	GRATED ENTRY PIT	600	900			300	246.87	248.34	1.47	EDCM 601 & 605	
Ex 18	GRATED PIT	Ex 600	Ex 900	Ex 375	Ex 245.24	Ex 375	Ex 245.19	246.89	1.71		UPGRADE EX JUNCTION PIT TO GRATED AND MATCH LID NEATLY TO SURROUND CONCRETE LANEWAY.
Ex 19	GRATED PIT	Ex 600	Ex 900	Ex 300	245.59	Ex 375	Ex 245.54	247.34	1.8	EDCM 605	UPGRADE EX JUNCTION PIT TO GRATED AND MATCH LID NEATLY TO SURROUNDI CONCRETE LANEWAY.

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DESIG

ans provided by is for information	DRAFTER	Y.Song			
e superintendent.	DESIGNER	Y.Song			
Management Solden	CHECKED	M.Angay			
1501	AUTHORISED	A.Burrows			
4007	REFERENCE No. 1	1700E-14			
obal-Mark.com.au®	REFERENCE No. 2				

NAME

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





Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 4
& Pit Schedules

MELWAYS REF PROJECT / DRAWING No. 1700E-14-24

SHEET No. REVISION 2

DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-14\Dwgs\1700E-14-24.dwg PRINTED BY: LM15663 on 04/02/2022 at 02:13:13 PM

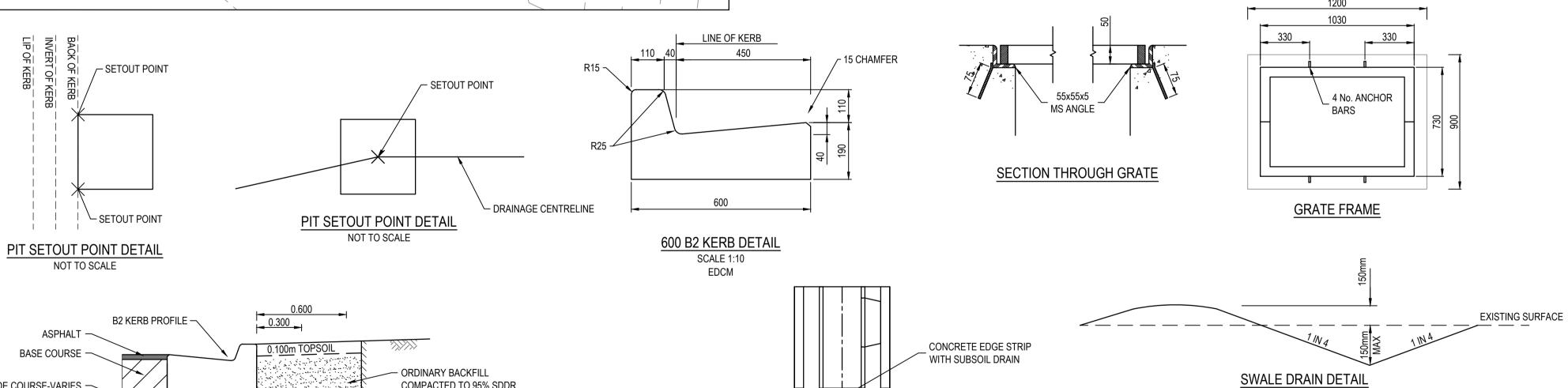
# HARDWOOD GROVE MEWS & LANEWAY COMPOSITION - EDCM503 300mm DEPTH PAVEMENT COMPOSITION LAYER THICKNESS (mm) PAVEMENT LAYER N25 CONCRETE WITH SL82 MESH TOP 50 COVER. MESH TO HAVE CONCRETE 200 50 COVER TO ALL EDGES CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE SUB BASE 100 MECHANICALLY COMPACTED

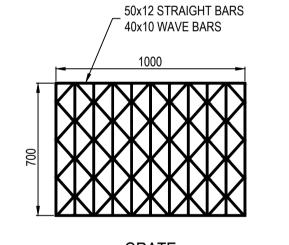
#### ROAD PAVEMENT COMPOSITION - ACCESS STREET LEVEL 2

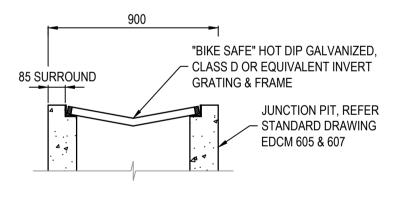
850mm DEPTH PAVEMEN	NT COMPOSITION						
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL					
A ASPHALT WEARING COURSE	40	SIZE 14 TYPE N ASPHALT (CLASS 320 BINDER)					
B ASPHALT BASE COURSE	40	SIZE 14 TYPE HP ASPHALT (CLASS A10E BINDER)					
C SAMII SEAL	10	SIZE 10 S18RF					
D PRIME	YES						
E BASE COURSE	110	SIZE 20 CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289,5.2.1					
F UPPER SUBBASE 160		CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIE AS1289.5.2.1					
G LOWER SUBBASE 200		CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED AS1289.5.2.1					
H CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)					
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)					
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)					

#### ROAD PAVEMENT COMPOSITION - ACCESS PLACE

780mm DEPTH PAVEME	NT COMPOSITION					
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL				
A WEARING COURSE	30	SIZE 10 TYPE L ASPHALT (CLASS 320 BINDER)				
B INTERMEDIATE COURSE	30	SIZE 10 TYPE N ASPHALT (CLASS 320 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 DENSITY OF 98% MDD (MODIFIED) AS1289,5.2.1				
F UPPER SUBBASE	120	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIEI AS1289.5.2.1				
S LOWER SUBBASE 170		CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED AS1289.5.2.1				
H CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)				
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)				
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)				







<u>GRATE</u>

1. REFER TO EDCM STANDARD DRAWINGS 605, 606 & 607 FOR PIT DETAILS.

SECTION THOUGH PIT

2. GRATE FRAME TO BE "BIKE SAFE" TO AS3996-1992

**GRATED JUNCTION PIT DETAIL** NOT TO SCALE

SLOPE VARIES **EXISTING SURFACE** FILL BATTER INTO FUTURE LOT NOT TO SCALE

# 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

# AS CONSTRUCTED PLANS

BACKFILL

D/2+0.20

SUBSOIL DRAIN (EXPANSIVE SOILS)

NOT TO SCALE

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.

100Ø CLASS 400 PERVIOUS

PIPE WITH SECOND STAGE

GEOTEXTILE SOCK TYPE A1, A2 OR A3 FILTER

SUBGRADE COURSE-VARIES -

CAPPING LAYER-0.150m MIN.

SUBGRADE -

SERVICE CONDUIT

# AS CONSTRUCTED

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CONDUITS FOR GAS, WATER, ELECTRICITY AND

TELECOM SERVICES TO BE LOCATED CLEAR OF

PAVEMENT AND THE SUBSURFACE DRAIN

COMPACTED TO 95% SDDR

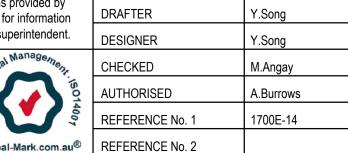
20mm CLASS 3 CRUSHED

ROCK OR 20mm CLASS 3

CRUSHED CONCRETE

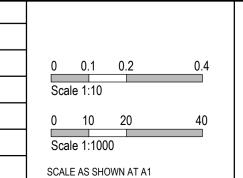
COMPACTED TO 97%

MODIFIED



TEMPORARY TURN AREA DETAIL

NOT TO SCALE



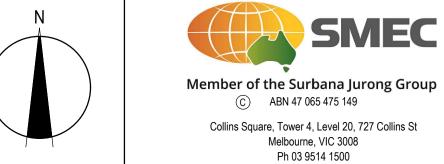
200mm DEPTH 40mm NOM. SIZE CLASS 4 FCR

- NOT TO BE CONSTRUCTED WITHOUT

SUPERINTENDENT APPROVAL

"NO ROAD" SIGN AND

BARRIER KERB



NOT TO SCALE

**EXISTING SURFACE** 

WORKS WORKS

CUT BATTER INTO FUTURE LOT

NOT TO SCALE

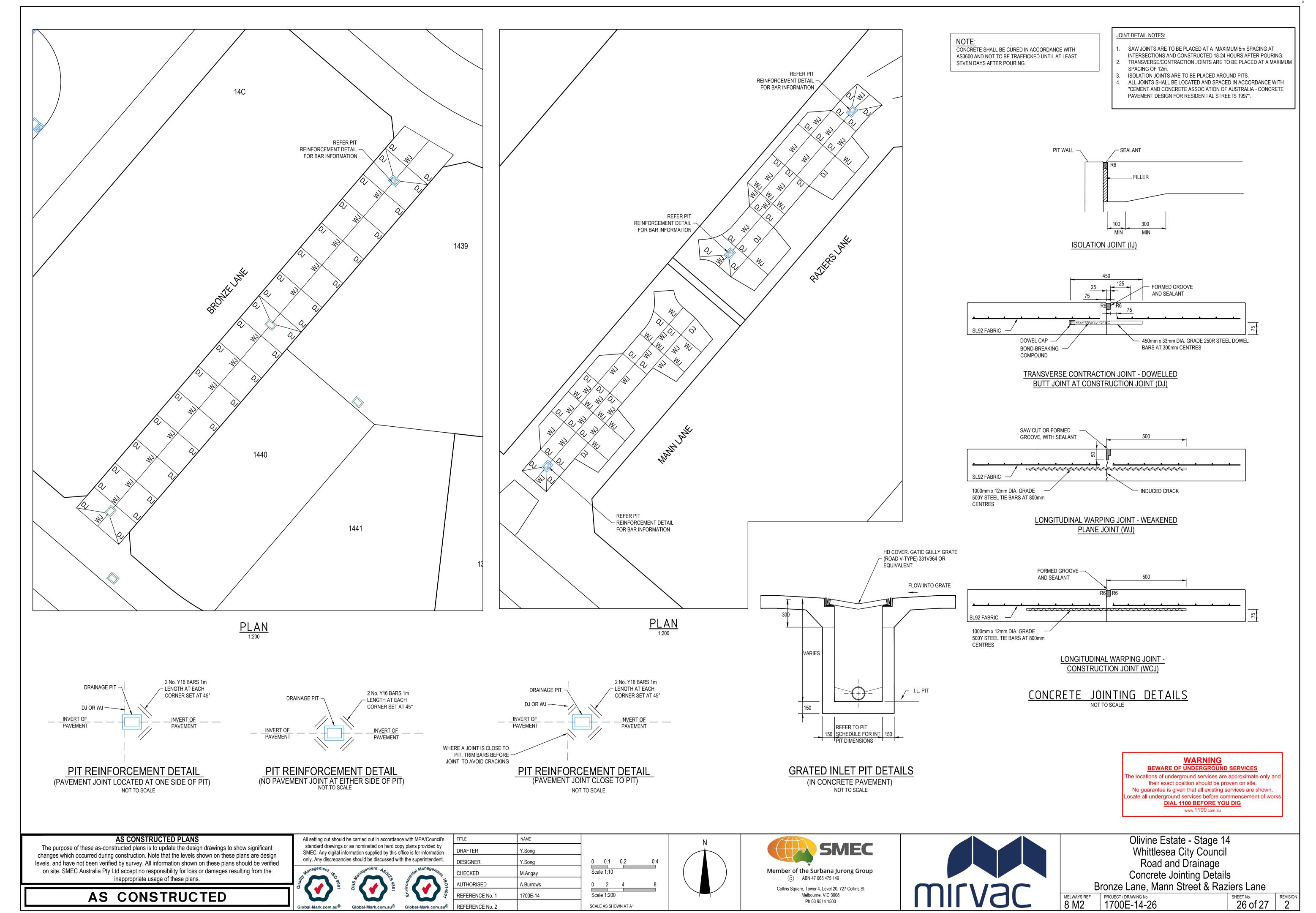
SLOPE VARIES

MATERIAL



Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Pavement Details and General Details

MELWAYS REF PROJECT / DRAWING No. 1700E-14-25 SHEET No. REVISION 25 of 27 2



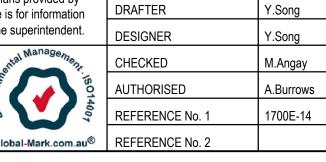
<u>PHASE</u>	DIS	SCIPLINE CODE		<u>FENTIAL RISK</u> Operations, Maintenance)	RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN  INITIATIVE or CONTROL  (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED? YES / NO	RESIDUAL RISK LIKELIHOOD (0-5)	RESIDUAL RISK CONSEQUENCE (0-5)		RESIDUAL RISK OWNER
Road Furniture / F	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
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	<b>'</b>	'				'							
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

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SCALE AS SHOWN AT A1

DRAFTER





Olivine Estate - Stage 14
Whittlesea City Council
Road and Drainage
Safety In Design

MELWAYS REF PROJECT / DRAWING No. 1700E-14-85