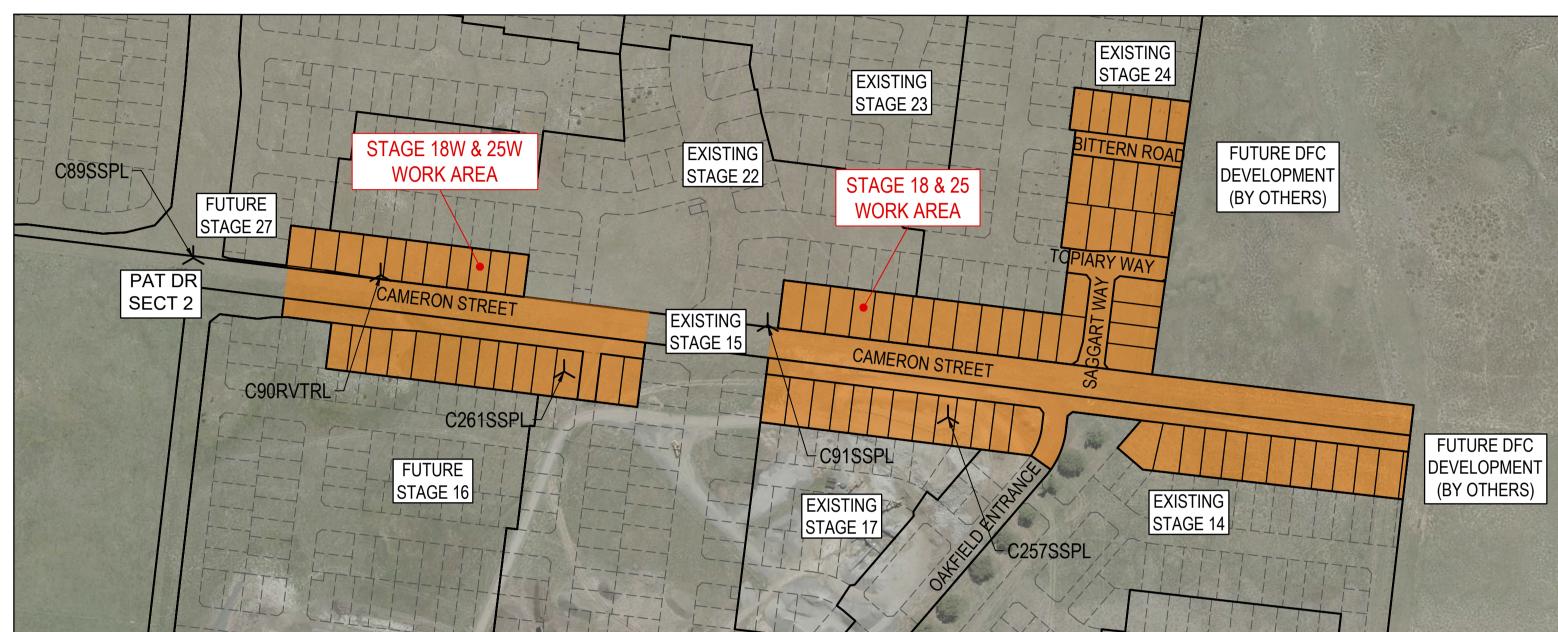
Olivine Estate Stage 18W & 25W and Stage 18 & 25



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1700E-018 025-500	Safety In Design	

TBM SETOUT TABLE								
POINT	EAST	NORTHING	ELEVATION	DESCRIPTION				
C89SSPL	322,731.47	5,844,398.54	247.61	STAR PICKET				
C90RVTRVL	322,156.34	5,844,387.18	249.01	RIVET				
C91SSPL	323,111.41	5,844,354.26	246.33	STAR PICKET				
C257SSPL	323,230.60	5,844,293.25	247.43	STAR PICKET				
C261SSPL	322,976.76	5,844,323.39	244.79	STAR PICKET				

AS CONSTRUCTED PLANS

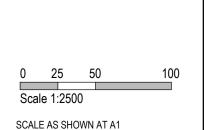
The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site.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

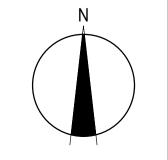
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AND BEHIND KERBS & CHANNEL SHALL BE BACKFILLED WITH COMPACTED CRUSHED ROCK AS SPECIFIED. 24. OFFSETS TO DRAINAGE IN EASEMENTS AS SHOWN ARE TO THE CENTRELINE OF THE DRAIN.

25. AG DRAINS TO BE PROVIDED BEHIND ALL KERBS AND SHALL HAVE SUITABLE OUTLET. CONSTRUCTION TO BE IN ACCORDANCE WITH EDCM 605-608. 26. HOUSE DRAINS ARE TO BE CONNECTED DIRECT TO UNDERGROUND DRAIN UNLESS NOTED OTHERWISE.

27. PROPERTY INLET PITS AS PER EDCM 701-704.

GENERAL NOTES (WHITTLESEA CITY COUNCIL)

THE CONTRACTOR SHALL:

PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.

RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.

WHEN TRENCHING OPERATIONS ARE IN PROGRESS.

SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

6. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.

COUNCIL'S PARKS AND GARDENS DEPARTMENT.

IS TO BE ADHERED TO DURING THE CONSTRUCTION WORKS.

EARTHWORKS SECTION OF SMEC'S CONTRACT SPECIFICATION.

19. NO TOPSOIL TO BE REMOVED FROM SITE UNLESS OTHERWISE APPROVED

AND STOCKPILED PRIOR TO EARTHWORK COMMENCING.

OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.

NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.

THE EXACT LOCATION OF ALL SERVICES PRIOR TO THE INSTALLATION OF CONDUITS.

DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT

16. BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 IN 6 UNLESS NOTED OTHERWISE

TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.

THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT COUNCIL STANDARD DRAWINGS AND

THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE

SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SURVEILANCE COORDINATOR

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

COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY

NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF THEIR INTENTION TO COMMENCE TRENCHING

ENSURE THAT THE MINE MANAGER OR THEIR DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE

THE CONTRACTOR IS TO NOTIFY COUNCIL'S SENIOR SURVEILLANCE ENGINEER AND ALL SERVICE AUTHORITIES

THE CONTRACTOR SHALL COOPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE SUPERINTENDENT

8. ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD

9. WHEN ENGAGED IN BLASTING OPERATIONS THE CONTRACTOR SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE

11. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY

EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE

AUTHORITY BECAUSE ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL, OR REMOVAL IS DIRECTED BY THE

AUTHORISED ENGINEER. TREES TO BE REMOVED ARE TO BE SUITABLY LABELLED. WHEN IT IS PROPOSED TO

13. VICROADS ROADWORK SIGNING CODE OF PRACTICE WHICH COMPLIES WITH THE AUSTRALIAN STANDARD 1742.3-2002

14. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE

(WATER), R (RECYCLED WATER) AND C (COUNCIL COMMUNICATION) AS PER STANDARD DRAWING EDCM 303. 15. ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S EARTHWORK SPECIFICATION AND THE

17. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVE AND NATURESTRIPS TO BE STRIPPED OF TOPSOIL

18. NO FILLING OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE

20. LOTS SHALL BE EVENLY GRADED TO ENSURE MINIMUM LOT FALLS AS SPECIFIED ON DRAWINGS ARE ACHIEVED.

21. ALL DRAINAGE PIPES TO BE CLASS 2 RCP UNLESS NOTED OTHERWISE. ALL DRAINAGE PIPE UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED. PIPES ABOVE THIS SIZE MAY BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS. RUBBER RING PIPES TO BE PRESSURE RESISTANT, I.E. SPECIFIC MANUFACTURERS RUBBER RING TO BE USED, SUITED TO PRESSURE CONDITIONS AND THE PIPES ARE NOT TO HAVE ANY PLUGS 22. ALL PITS GRATER THAN OR EQUAL TO 1000mm DEPTH TO BE PROVIDED WITH STEP IRONS IN ACCORDANCE WITH

23. ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, KERB & CHANNEL, PARKING BAYS, DRIVEWAYS, FOOTPATHS

MARKED WITH THE LETTERS H (PROPERTY STORMWATER CONNECTION), E (ELECTRICAL), G (GAS), T(TELEPHONE), W

REMOVE EXISITING TREES IN ROAD RESERVES OR COUNCIL RESERVES. CONSULTATION IS TO OCCUR WITH

12. ALL TREES AND SHRUBS TO BE RETAINED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT

OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE

10. APPROPRIATE SILITATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE

CONSENT OF THE SUPERINTENDENT. BLASTING REQUIRES A BLASTING PERMIT FROM COUNCIL.

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

28. DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCILS STANDARDS AND CLEAR OF DRAINAGE PITS,

SEWER MAINTENANCE HOLES AND EXISTING TREES

29. FOOTPATHS ARE TO BE OFFSET 50mm FROM THE BUILDING LINE. 30. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND 1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING

COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED. 31. UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP AND GRADED OVER. ALL RUBBISH

IS TO BE REMOVED AND THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.

32. ALL SERVICE TRENCHES UNDER FOOTPATH, ROAD PAVEMENTS, VEHICLE CROSSINGS AND OTHER ROAD STRUCTURES ARE TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT COUNCIL AND AUTHORITY STANDARDS.

33. FOOTPATHS ARE TO BE CONTINUOUSLY REINFORCED CONCRETE IN ACCORDANCE WITH EDCM 403 UNLESS OTHERWISE SPECIFIED,

34. A BUILDING PERMIT MUST BE OBTAINED FOR ANY STRUCTURE/RETAINING WALL EXCEEDING 1.0m IN HEIGHT PRIOR TO COMMENCEMENT OF CONSTRUCTION, IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA. COPY OF BUILDING PERMITS AND 'CERTIFICATE OF COMPLIANCE - CONSTRUCTION' (REGARDLESS OF HEIGHT) FOR ALL COMPONENTS OF RETAINING WALL INCLUDING AG DRAINS TO BE SUBMITTED TO COUNCIL PRIOR TO STATEMENT OF

SAFETY MEASURES REQUIRED

Please note there are risks attached to the construction o this project, and any ongoing maintenance of structures onsider the safety of all. For potential risks, consequence and controls refer to Safety In Design Risk Register SID P4.E6. 1700E-018 025-500 ASSESS THE RISK - STAY SAFE

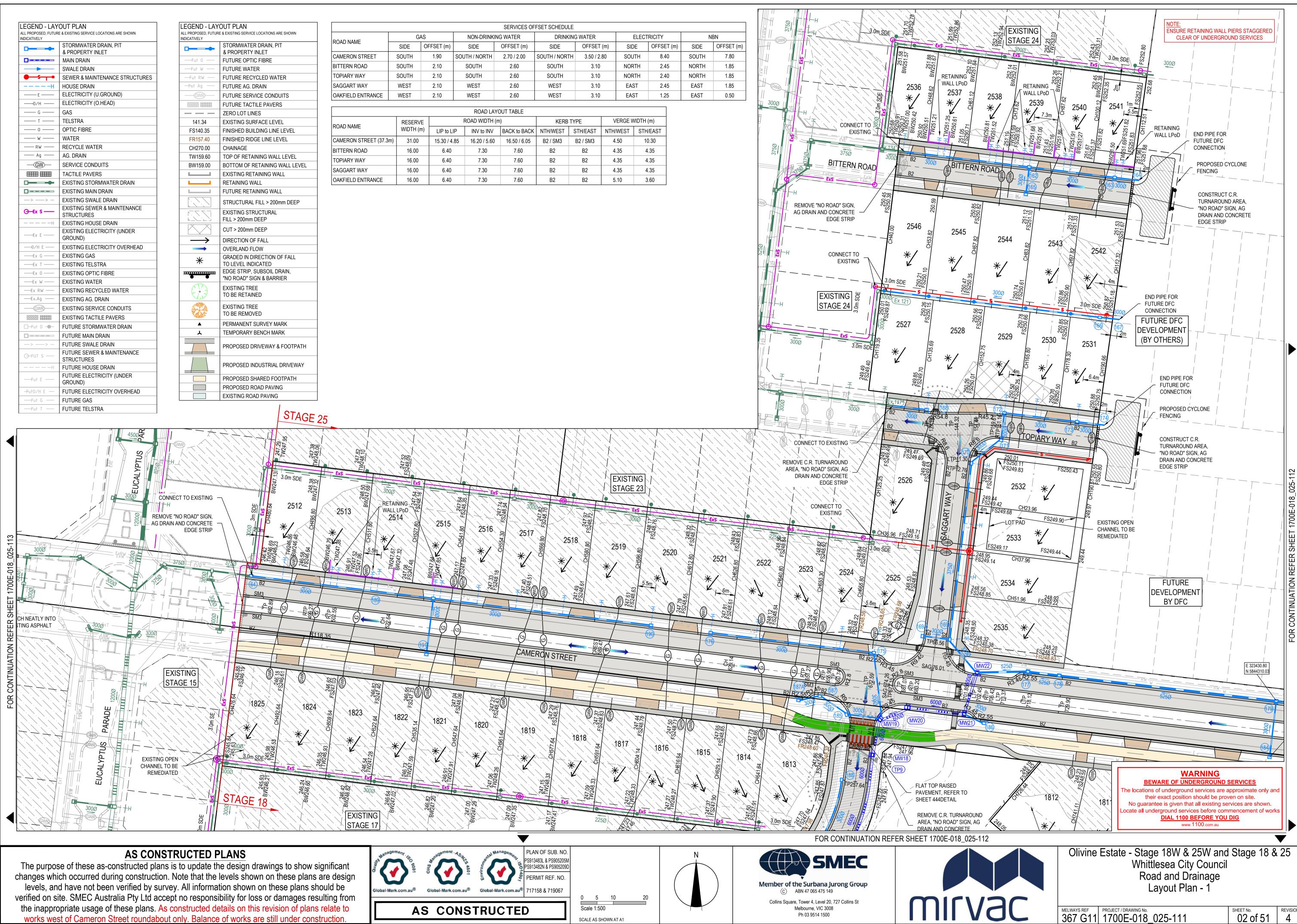
WARNING BEWARE OF UNDERGROUND SERVICES

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

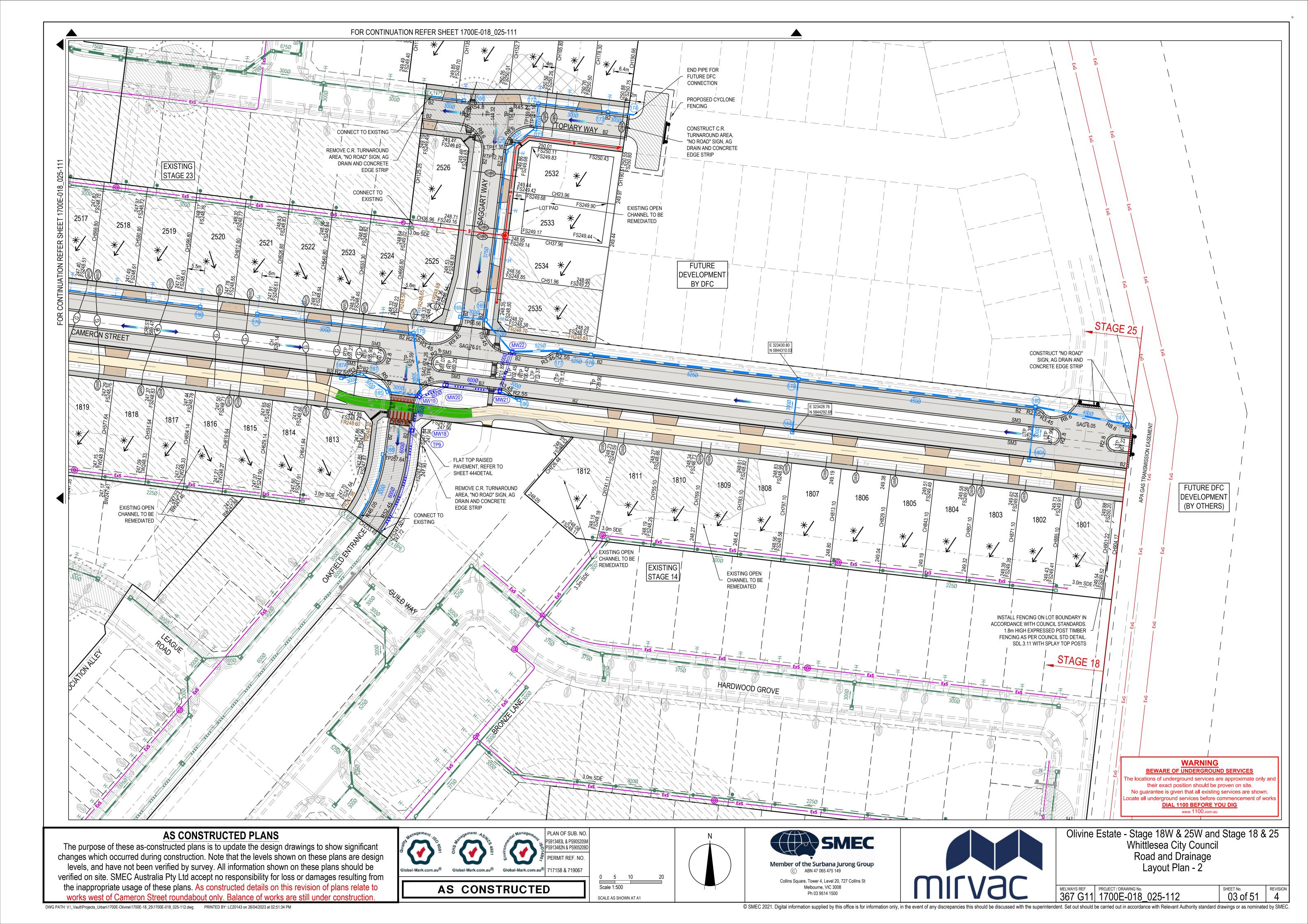
Olivine Estate - Stage 18W & 25W and Stage 18 & 25 Whittlesea City Council

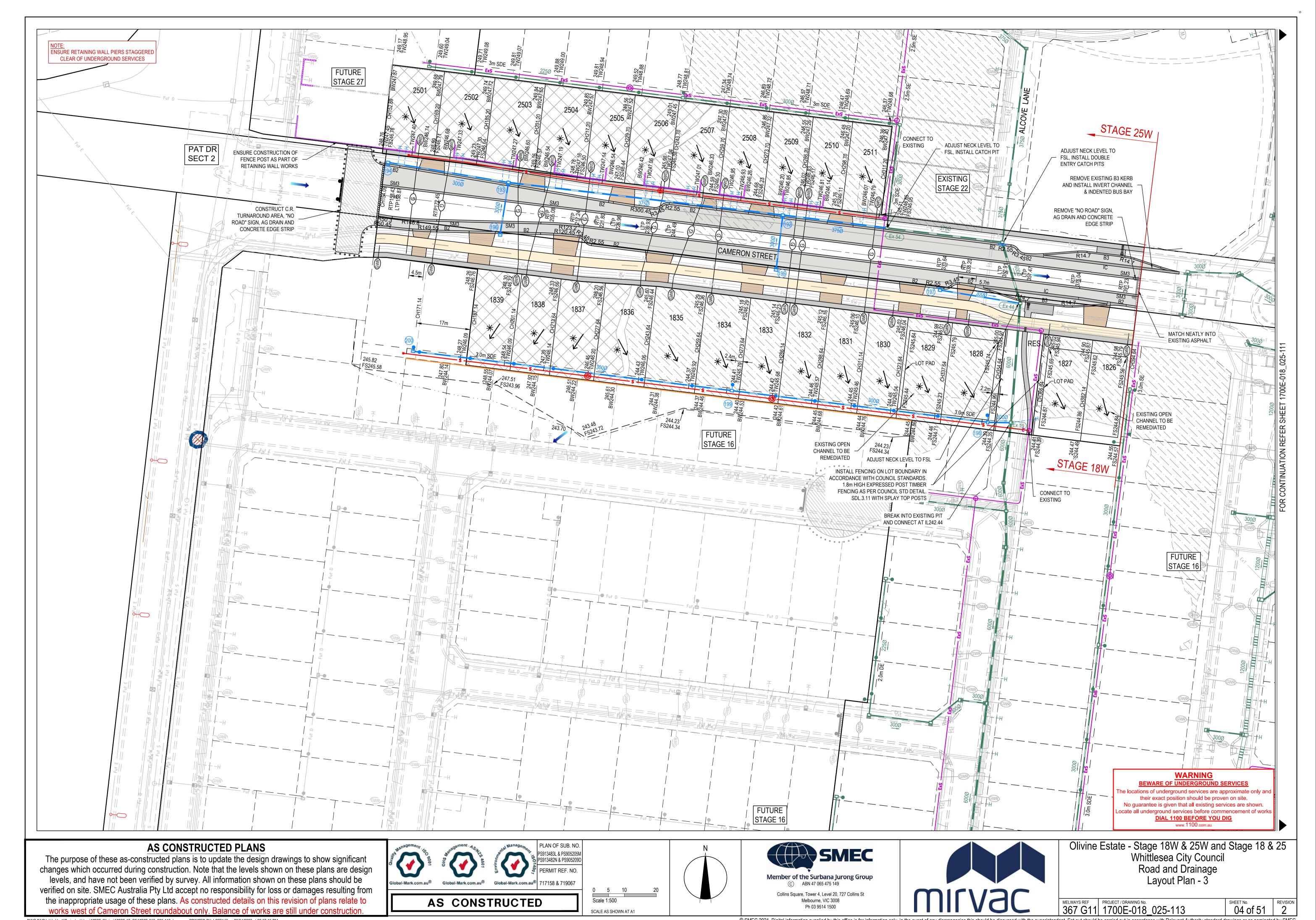
Road and Drainage Cover Plan & General Notes

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018 025-101

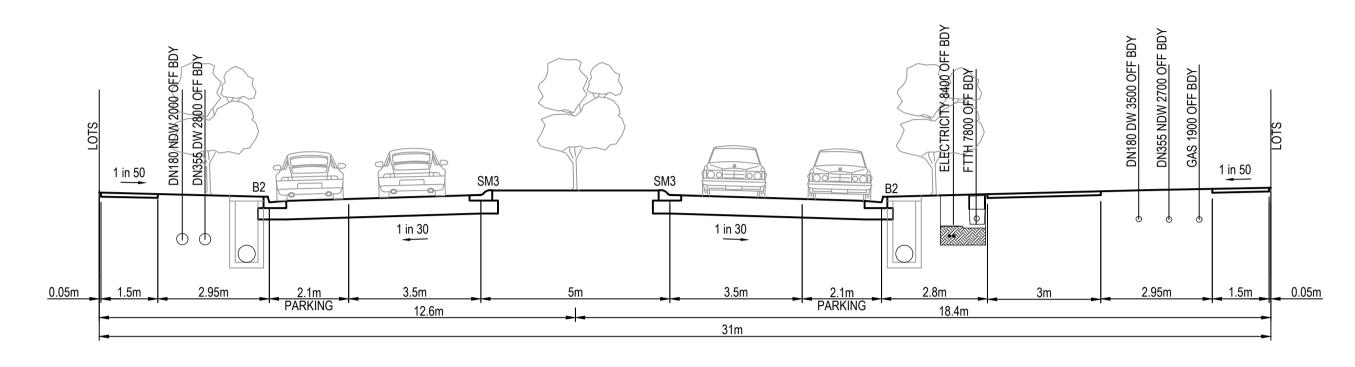


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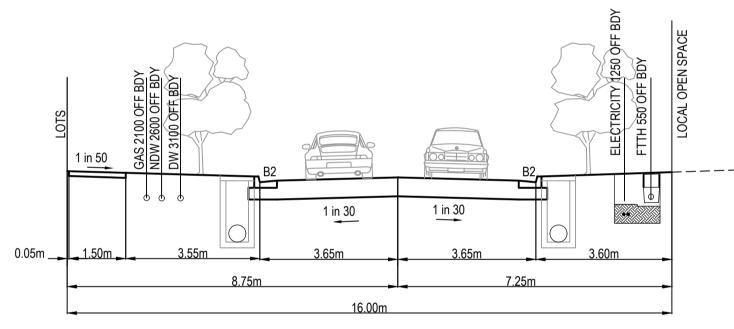




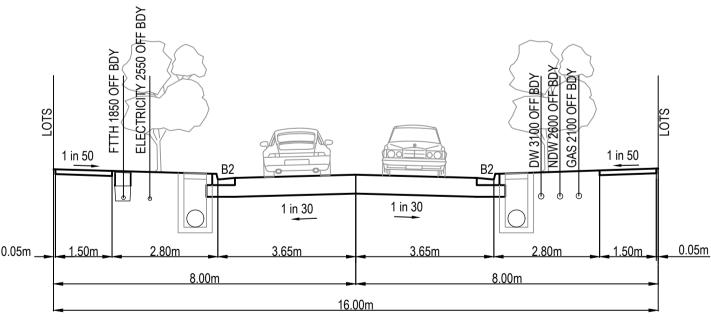
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31m CONNECTOR STREET CAMERON STREET



16m ACCESS STREET
OAKFIELD ENTRANCE



16m ACCESS STREET
SAGGART WAY, TOPIARY WAY & BITTERN ROAD

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.
PS913483L & PS905205M
PS913482N & PS905209D
PERMIT REF. NO.
717158 & 719067

AS CONSTRUCTED

SCALE AS SHOWN AT A1



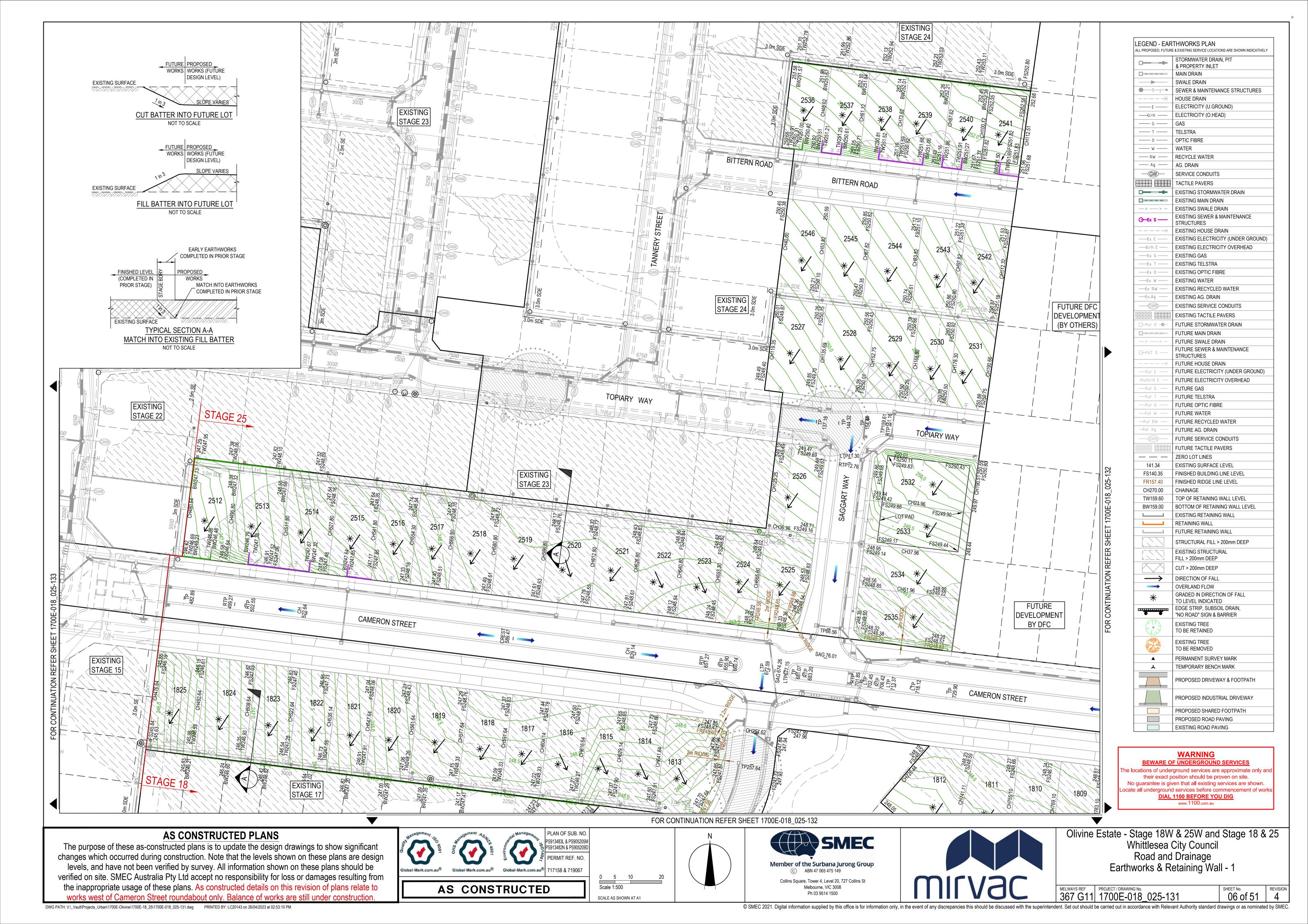
Ph 03 9514 1500

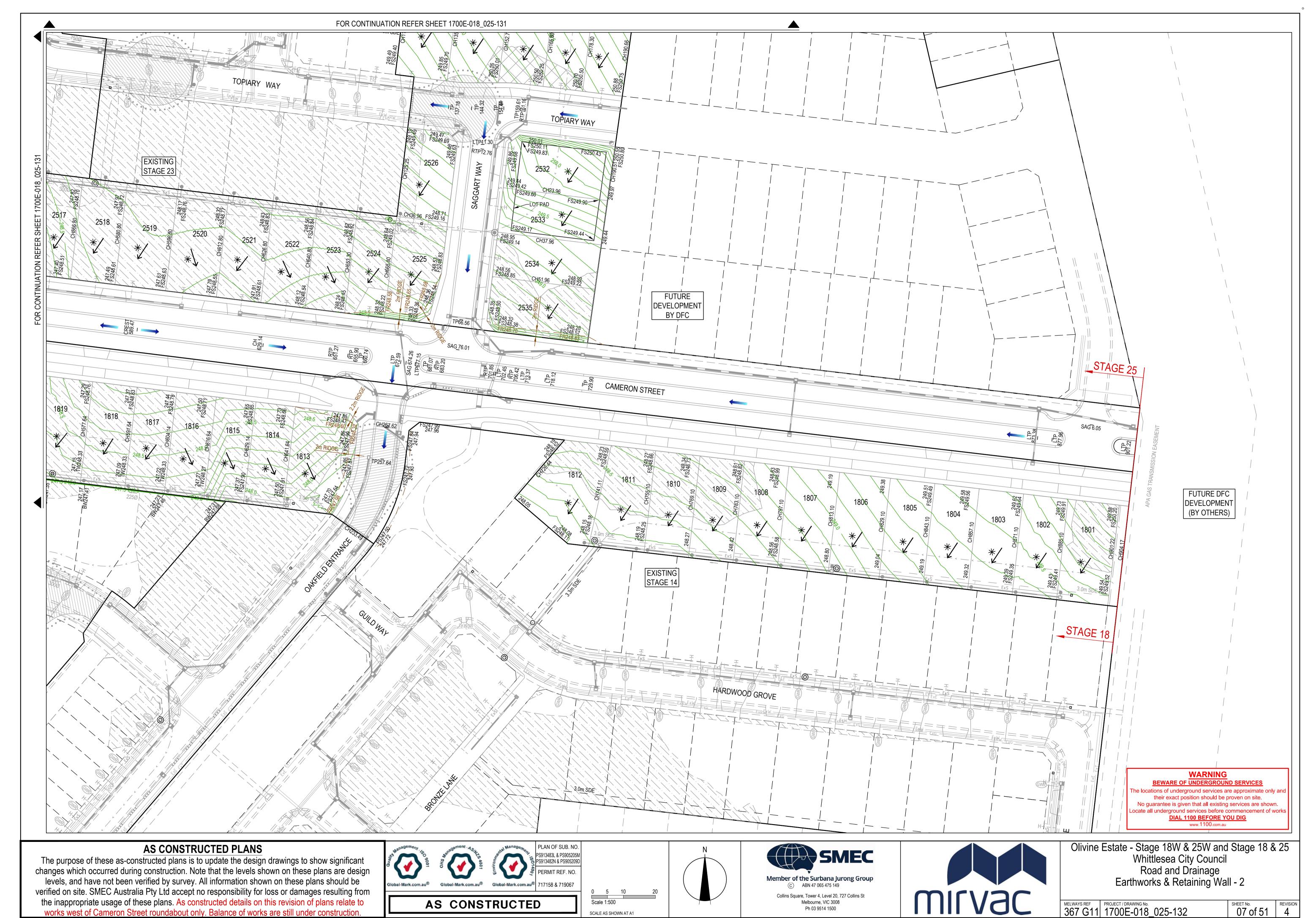


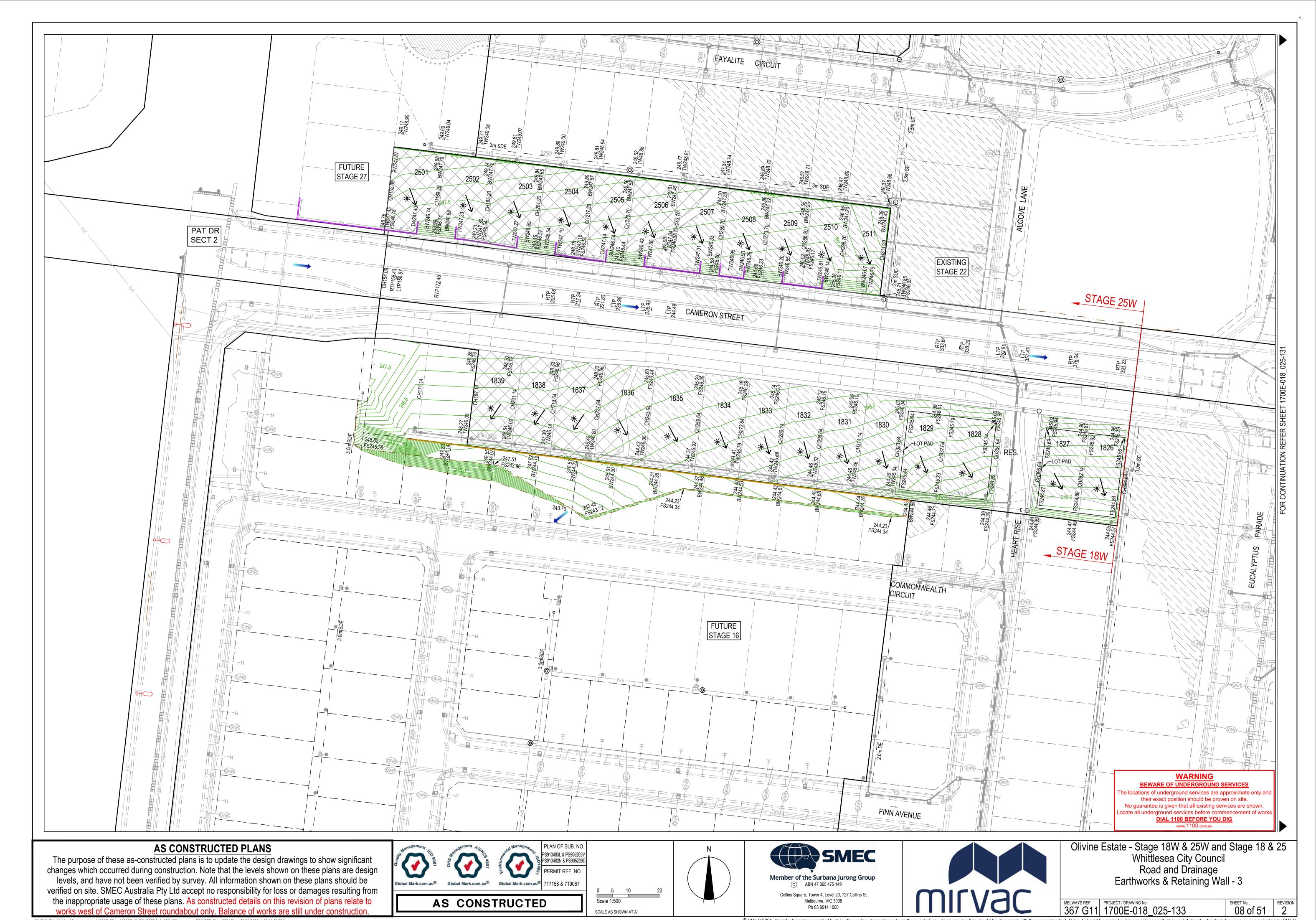
Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Typical Cross Sections

MELWAYS REF PROJECT / DRAWING No. 1700E-018_025-114

SHEET No. REVIS 05 of 51 2

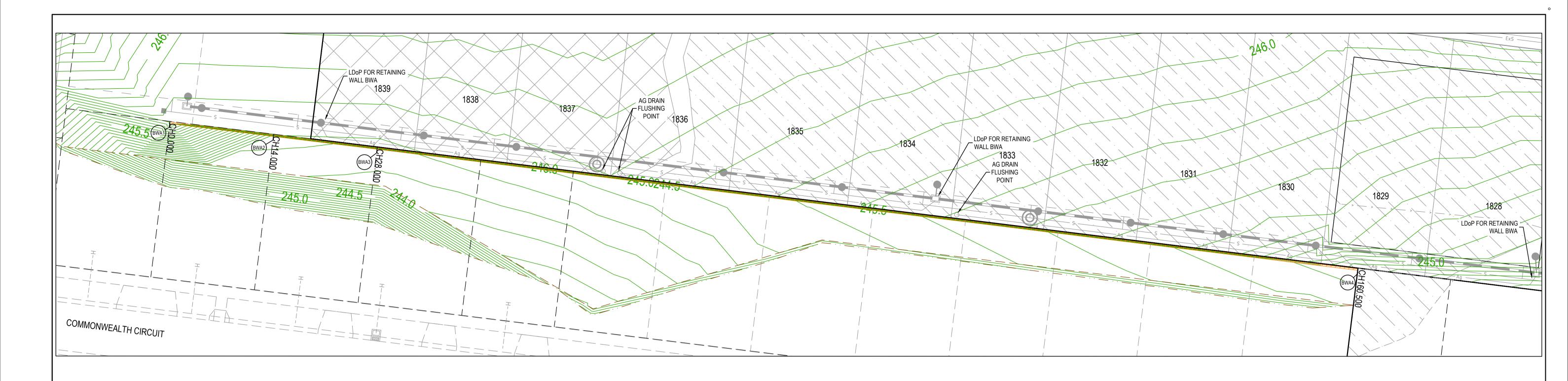


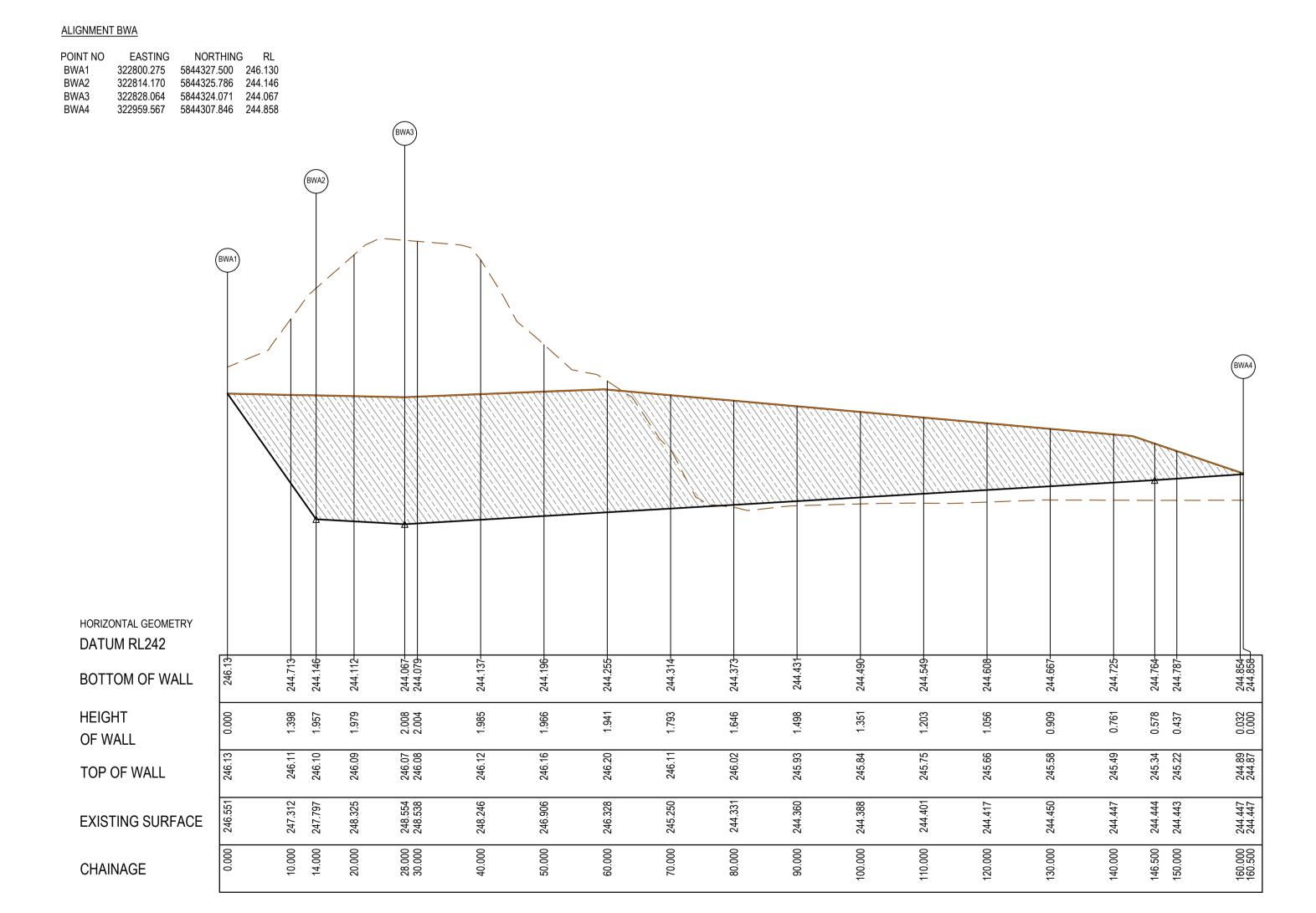




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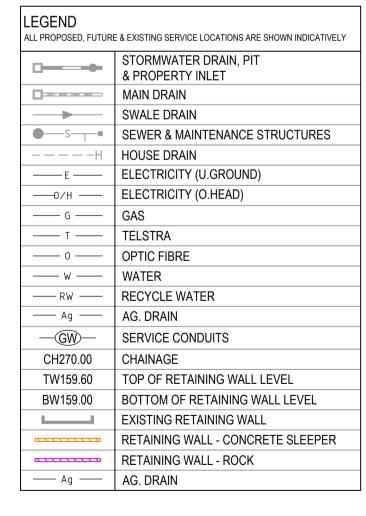


RETAINING WALL - LONGITUDINAL SECTION

LOT LOT FENCE FIXED TO WALL SLEEPER RETAINING WALL 900 AGI. DRAIN RETAINING WALL TYPICAL SECTION

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



LEGEND

— — EXISTING SURFACE

— DESIGN LINE

RETAINING WALL - CONCRETE SLEEPER

RETAINING WALL - ROCK

AS CONSTRUCTED PLANS

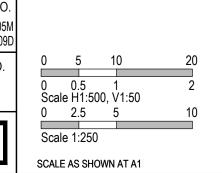
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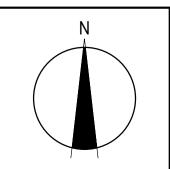




AS CONSTRUCTED









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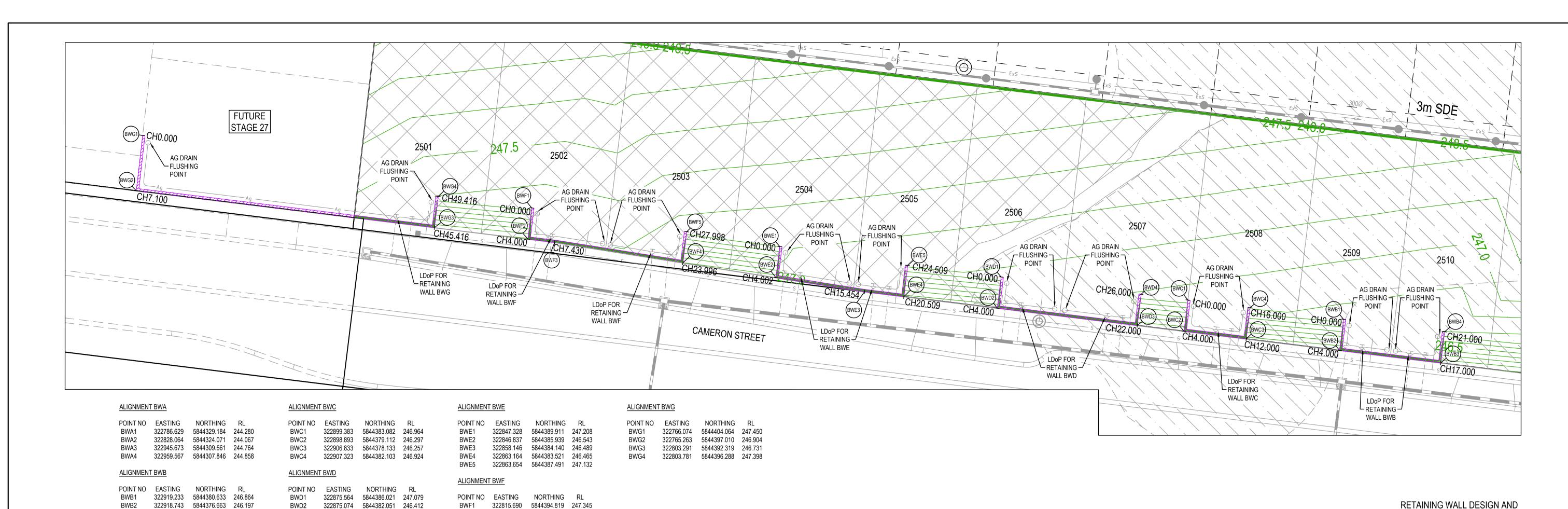


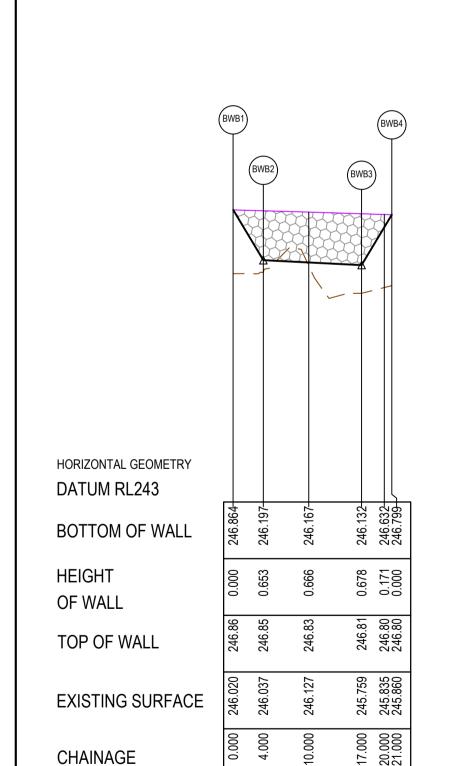
NOT TO SCALE

Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Retaining Wall Setout Plan - 1

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018 025-134

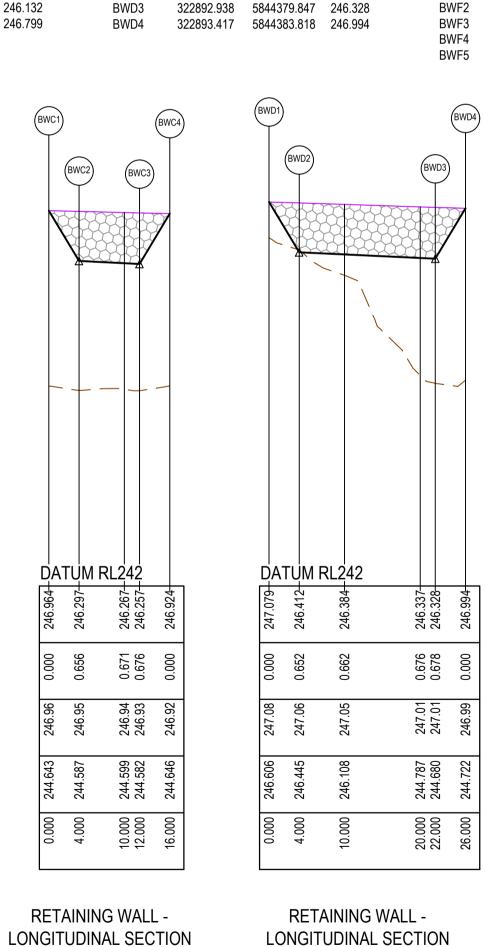
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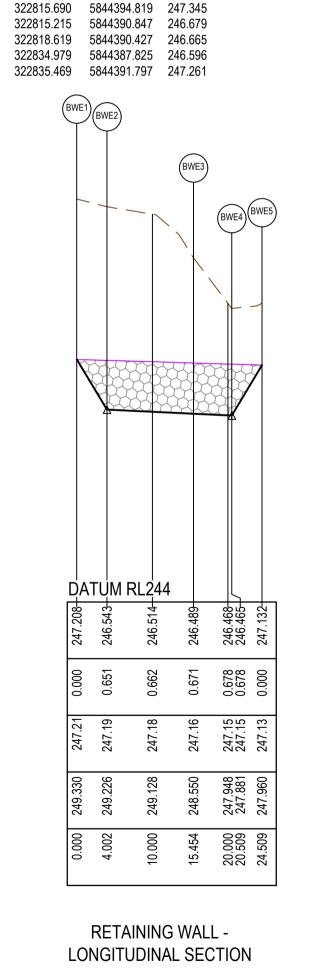


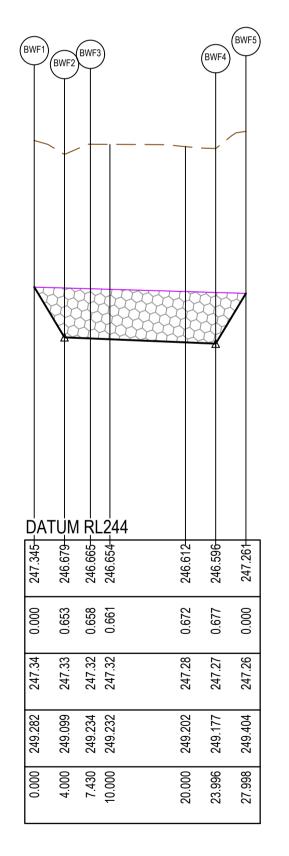


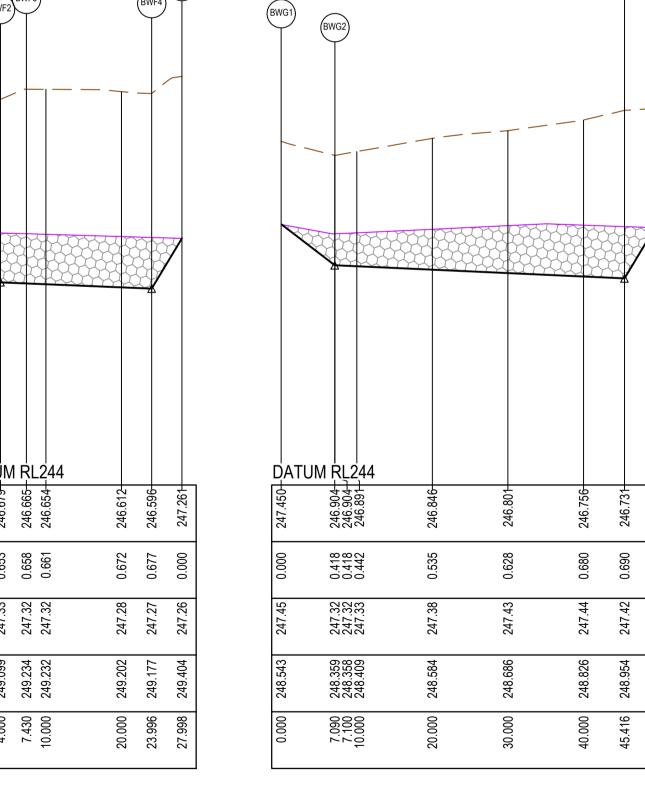
322931.645 5844375.072 246.132

322932.135 5844379.041 246.799









ROAD RESERVE LOT **ROCK RETAINING** TOP OF WALL OF WALL AGI PIPE CONNECTED TO DRAINAGE SYSTEM TYPICAL MORTARED ROCK RETAINING WALL NOT TO SCALE

APPROVALS REQUIREMENTS NOTE: RETAINING WALL DETAILS AND DESIGN CERTIFICATION TO BE SUBMITTED TO COUNCIL

PRIOR TO COMMENCEMENT OF CONSTRUCTION OF

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 BUIL	DING PERMIT HAVE BEEN ADDRESSED.					
	LEGEND ALL PROPOSED, FUTUR	RE & 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/Н —	ELECTRICITY (O.HEAD)					
	—— G ——	GAS					
	— т —	TELSTRA					
	o	OPTIC FIBRE					
	—— w ——	WATER					
	RW	RECYCLE WATER					
	—— Ag ——	AG. DRAIN					
	— GW —	SERVICE CONDUITS					
	CH270.00	CHAINAGE					
	TW159.60	TOP OF RETAINING WALL LEVEL					
	BW159.00	BOTTOM OF RETAINING WALL LEVEL					
		EXISTING RETAINING WALL					
		RETAINING WALL - CONCRETE SLEEPER					
		RETAINING WALL - ROCK					
	—— Ag ——	AG. DRAIN					

<u>LEGEND</u> EXISTING SURFACE **DESIGN LINE** RETAINING WALL - CONCRETE SLEEPER RETAINING WALL - ROCK

AS CONSTRUCTED PLANS

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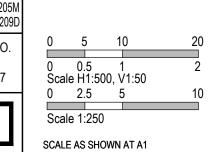






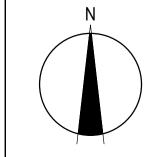
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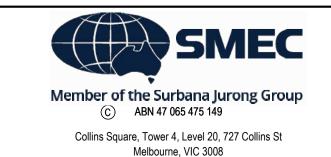




RETAINING WALL -

LONGITUDINAL SECTION





Ph 03 9514 1500

RETAINING WALL -

LONGITUDINAL SECTION



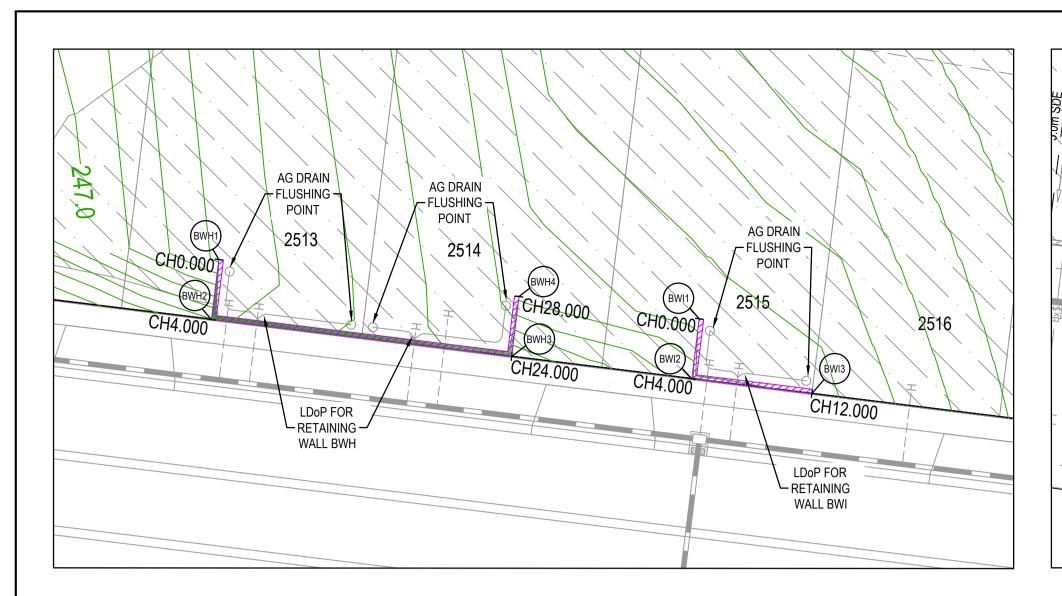
Olivine Estate - Stage 18W & 25W and Stage 18 & 25 Whittlesea City Council Road and Drainage Retaining Wall Setout Plan - 2

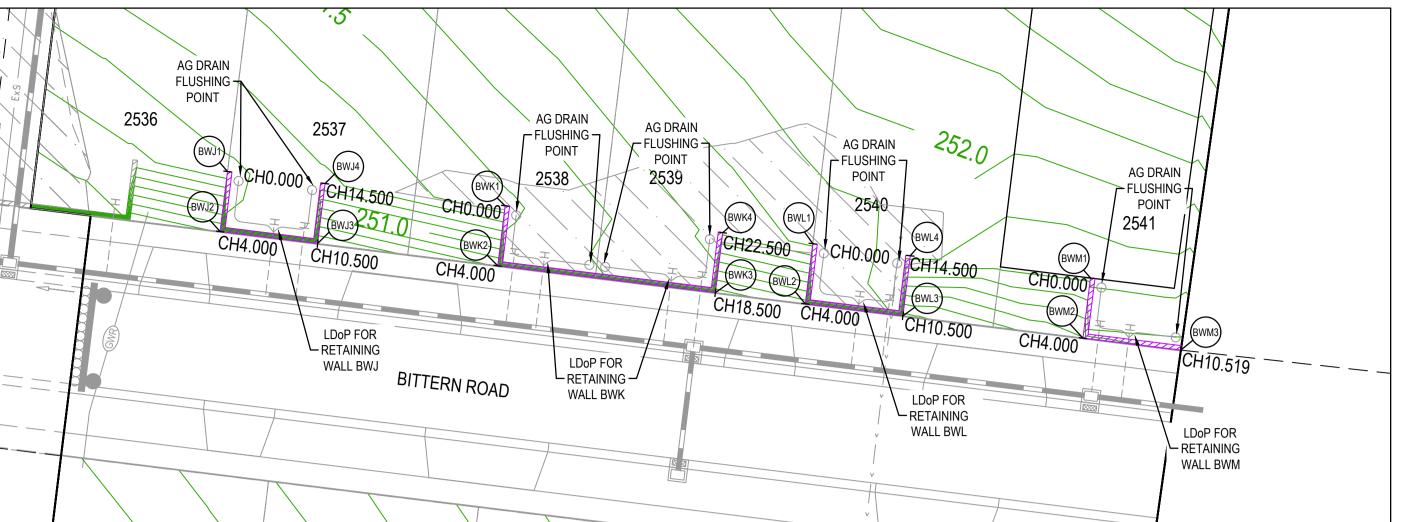
MELWAYS REF PROJECT / DRAWING No.

367 G11 1700E-018_025-135

RETAINING WALL -

LONGITUDINAL SECTION





<u>LEGEND</u> — — EXISTING SURFACE ——— DESIGN LINE RETAINING WALL - CONCRETE SLEEPER RETAINING WALL - ROCK

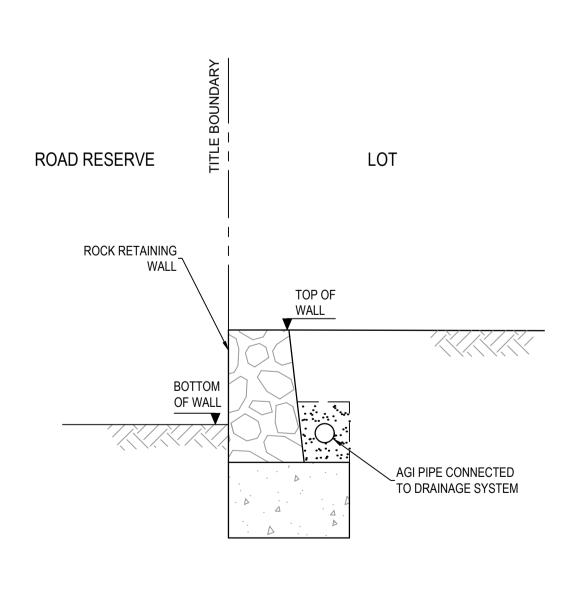
	STORMWATER DRAIN, PIT & PROPERTY INLET				
	MAIN DRAIN				
	SWALE DRAIN				
S	SEWER & MAINTENANCE STRUCTURES				
H	HOUSE DRAIN				
—— Е ——	ELECTRICITY (U.GROUND)				
——0/H ——	ELECTRICITY (O.HEAD)				
—— G ——	GAS				
— т —	TELSTRA				
0	OPTIC FIBRE				
—— w ——	WATER				
	RECYCLE WATER				
—— Ag ——	AG. DRAIN				
— GW —	SERVICE CONDUITS				
CH270.00	CHAINAGE				
TW159.60	TOP OF RETAINING WALL LEVEL				
BW159.00	BOTTOM OF RETAINING WALL LEVEL				
	EXISTING RETAINING WALL				
	RETAINING WALL - CONCRETE SLEEPER				
	RETAINING WALL - ROCK				
—— 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.



TYPICAL MORTARED ROCK RETAINING WALL NOT TO SCALE

ALIGNMENT BWJ ALIGNMENT BWL POINT NO EASTING NORTHING RL POINT NO EASTING NORTHING RL 323323.990 5844485.862 251.178 BWJ2 323323.500 5844481.892 250.512

ALIGNMENT BWK

POINT NO EASTING NORTHING RL

BWK1 323342.351 5844483.596 251.480

BWK2 323341.861 5844479.626 250.813

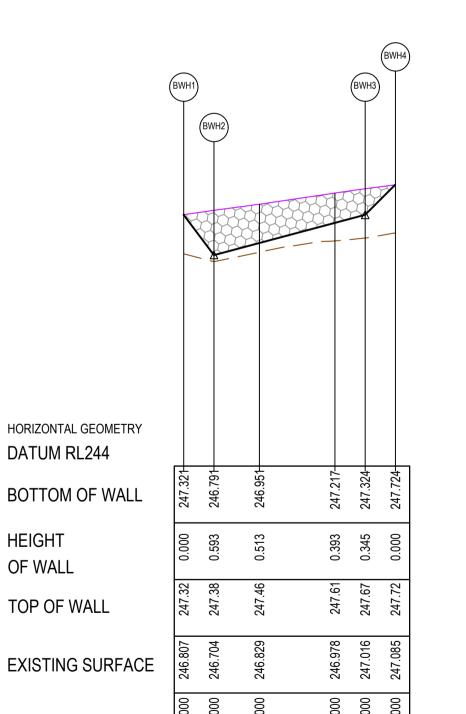
BWK3 323356.252 5844477.851 251.059

323356.742 5844481.821 251.725

BWL1 323362.697 5844481.086 251.827 BWL2 323362.207 5844477.116 251.161 BWJ3 323329.952 5844481.096 250.612 BWL3 323368.658 5844476.320 251.271 BWJ4 323330.441 5844485.066 251.279 BWL4 323369.148 5844480.290 251.937

ALIGNMENT BWM

POINT NO EASTING NORTHING RL BWM1 323381.058 5844478.821 251.696 BWM2 323380.568 5844474.851 251.496 BWM3 323387.038 5844474.053 251.678



RETAINING WALL -

LONGITUDINAL SECTION

HEIGHT OF WALL

CHAINAGE

ALIGNMENT BWH

ALIGNMENT BWI

POINT NO EASTING NORTHING RL

BWH4 323159.514 5844350.987 247.724

POINT NO EASTING NORTHING RL

BWI1 323171.424 5844349.518 247.842

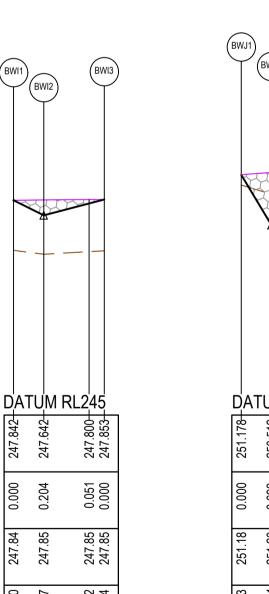
BWI2 323170.934 5844345.548 247.642

BWI3 323178.874 5844344.568 247.853

323139.664 5844353.436 247.321

323139.175 5844349.466 246.791

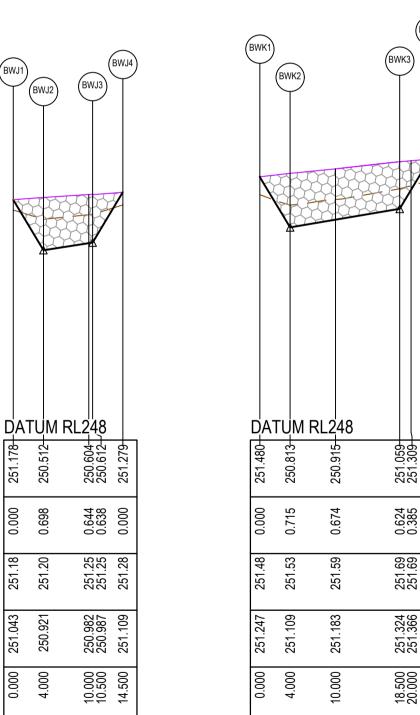
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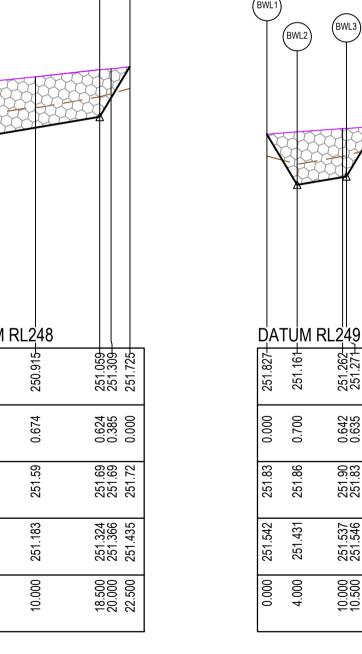


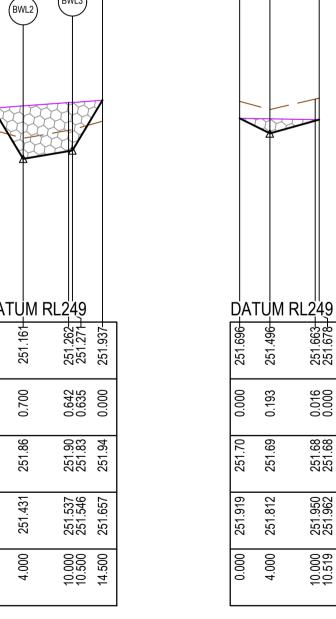
247.1 247.1

RETAINING WALL -

LONGITUDINAL SECTION







DATUM RL249

RETAINING WALL -RETAINING WALL -LONGITUDINAL SECTION LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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RETAINING WALL -

LONGITUDINAL SECTION

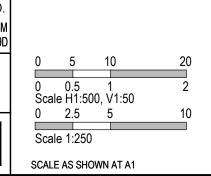


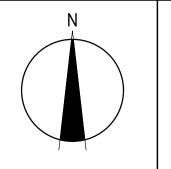
AS CONSTRUCTED



RETAINING WALL -

LONGITUDINAL SECTION



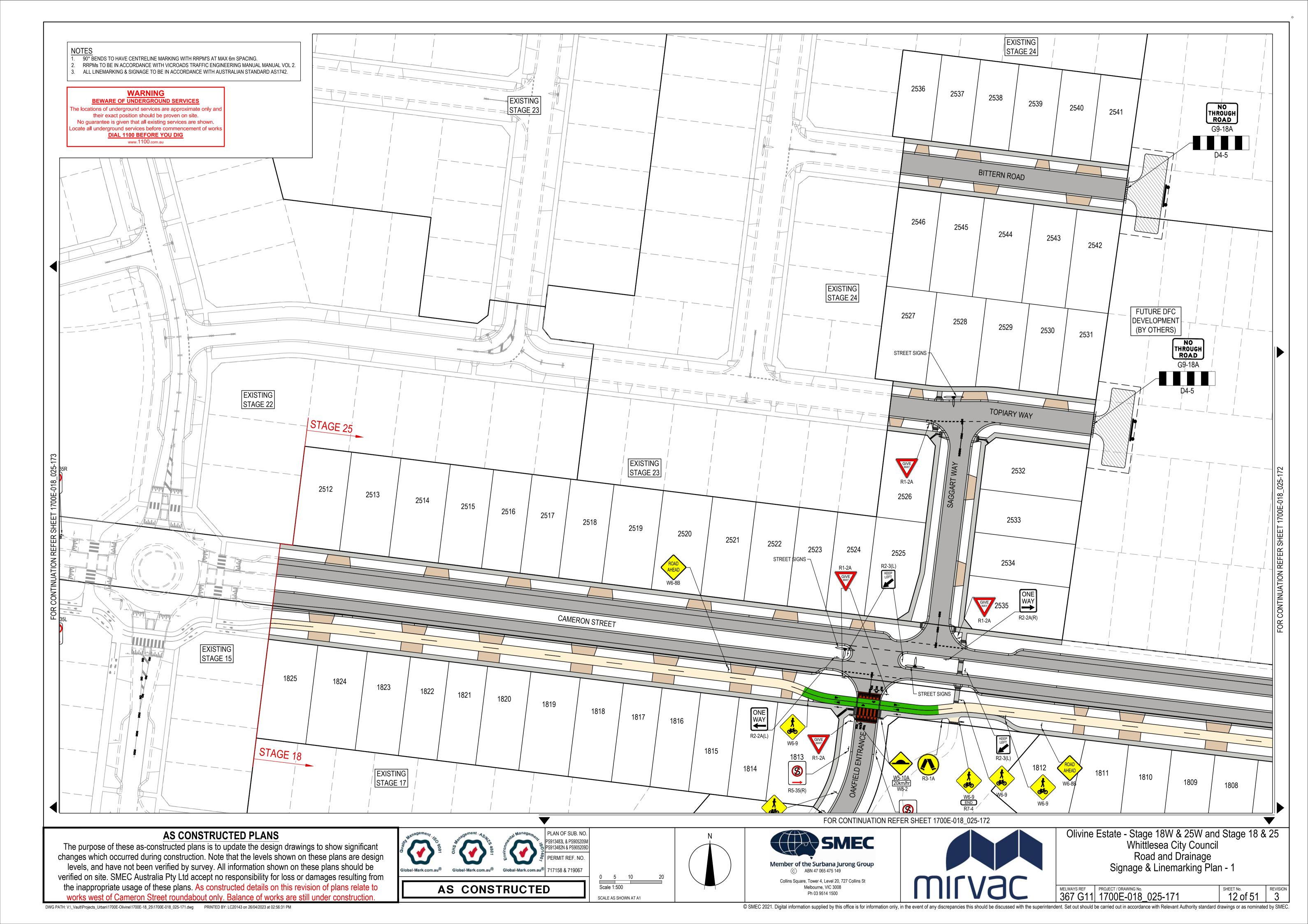


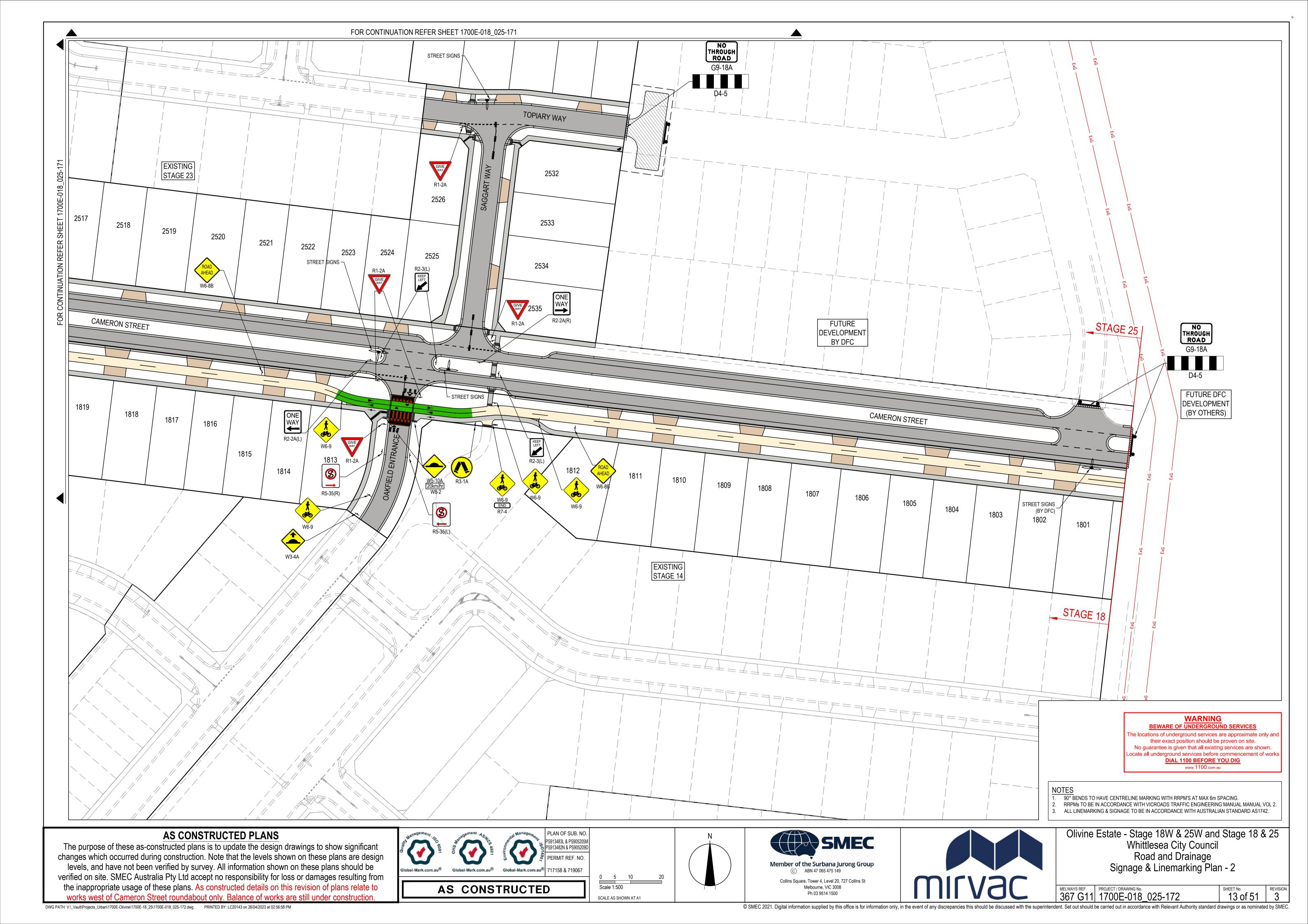


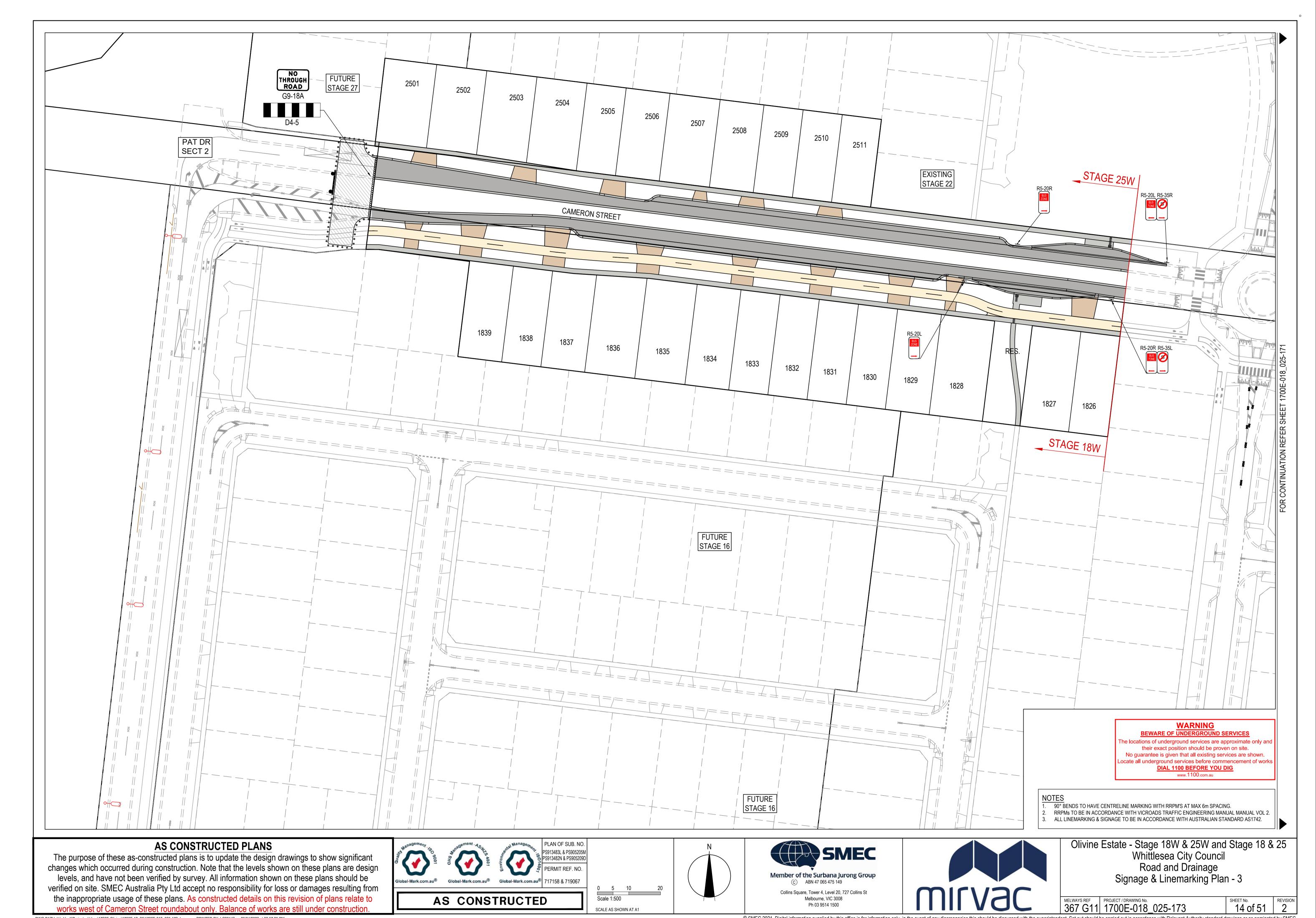


Olivine Estate - Stage 18W & 25W and Stage 18 & 25 Whittlesea City Council Road and Drainage Retaining Wall Setout Plan - 3

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018_025-136

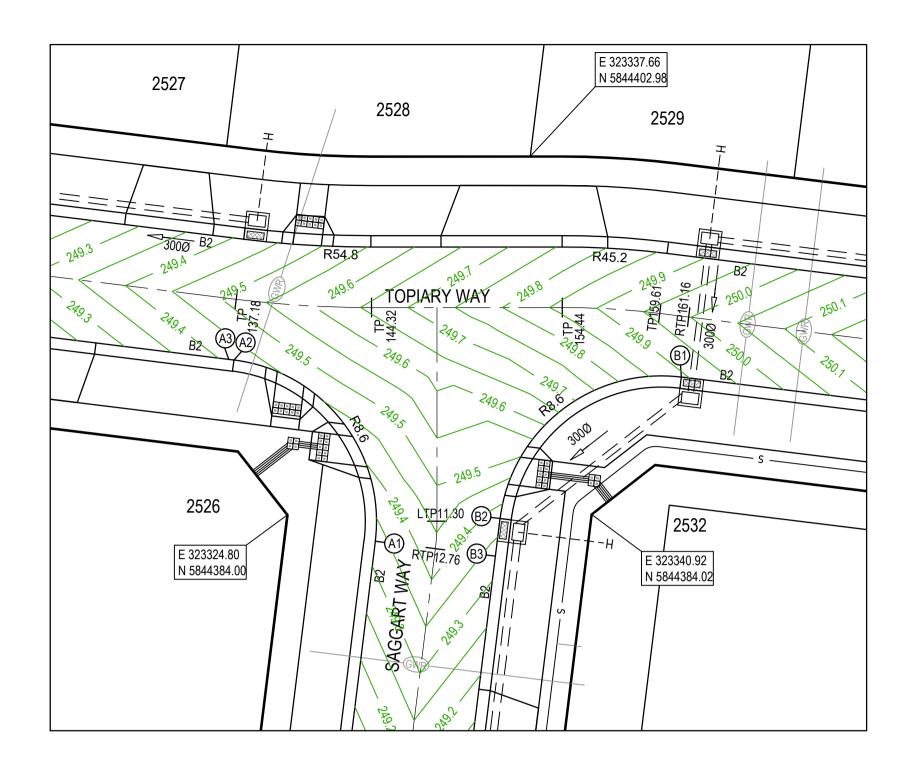


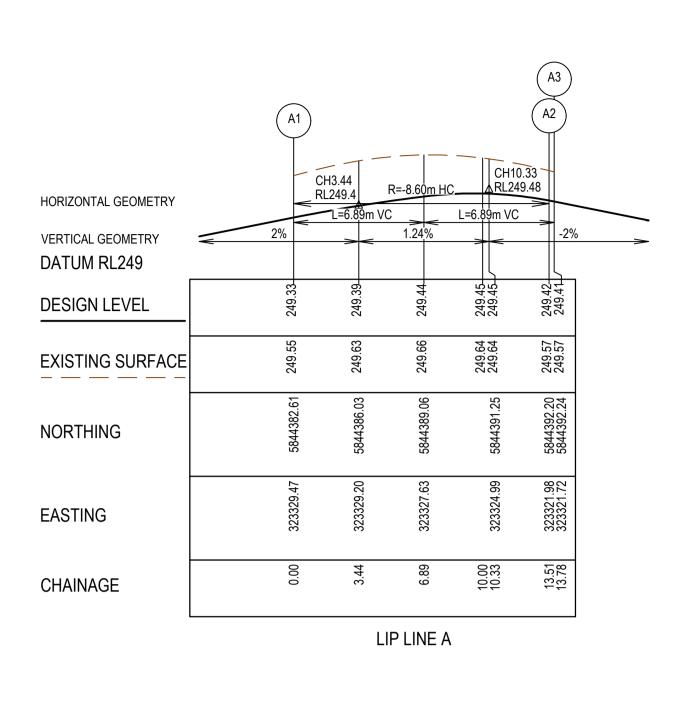


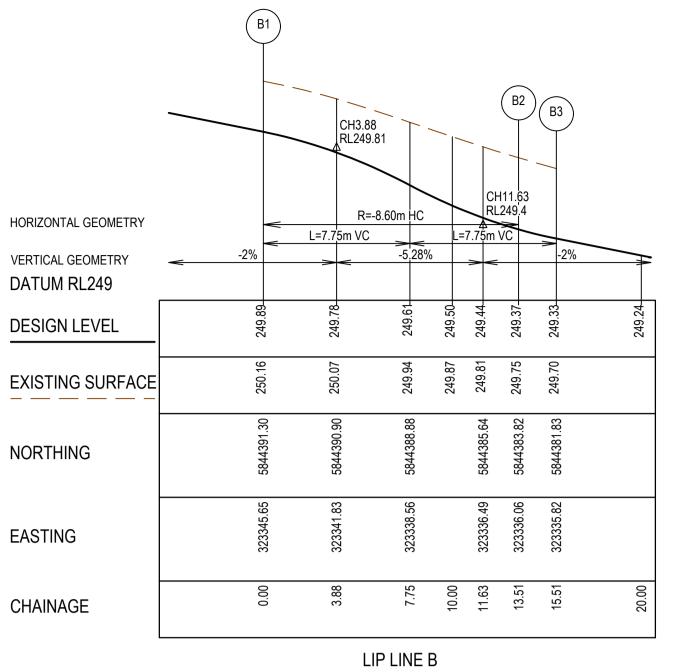


DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-18_25\1700E-018_025-173.dwg PRINTED BY: LC20143 on 26/04/2023 at 02:57:25 PM

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□ === ● =	STORMWATER DRAIN, PIT & PROPERTY INLET					
<u> </u>	MAIN DRAIN					
● S — ■	SEWER & MAINTENANCE STRUCTURES					
H	HOUSE DRAIN					
	SERVICE CONDUITS					
	TACTILE PAVERS					
<u> </u>	EXISTING STORMWATER DRAIN					
<u> </u>	EXISTING MAIN DRAIN					
<u>—</u> Ех S ——	EXISTING SEWER & MAINTENANCE STRUCTURES					
GWR	EXISTING SERVICE CONDUITS					
0000	EXISTING TACTILE PAVERS					
□-Fut D -	FUTURE STORMWATER DRAIN					
	FUTURE MAIN DRAIN					
⊖-FUT S —	FUTURE SEWER & MAINTENANCE STRUCTURES					
————Н	FUTURE HOUSE DRAIN					
GWR)	FUTURE SERVICE CONDUITS					
0000	FUTURE TACTILE PAVERS					
	EXISTING RETAINING WALL					
	RETAINING WALL					
	FUTURE RETAINING WALL					
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER					
A	PERMANENT SURVEY MARK					
	TEMPORARY BENCH MARK					
	PROPOSED DRIVEWAY & FOOTPATH					

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

VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM

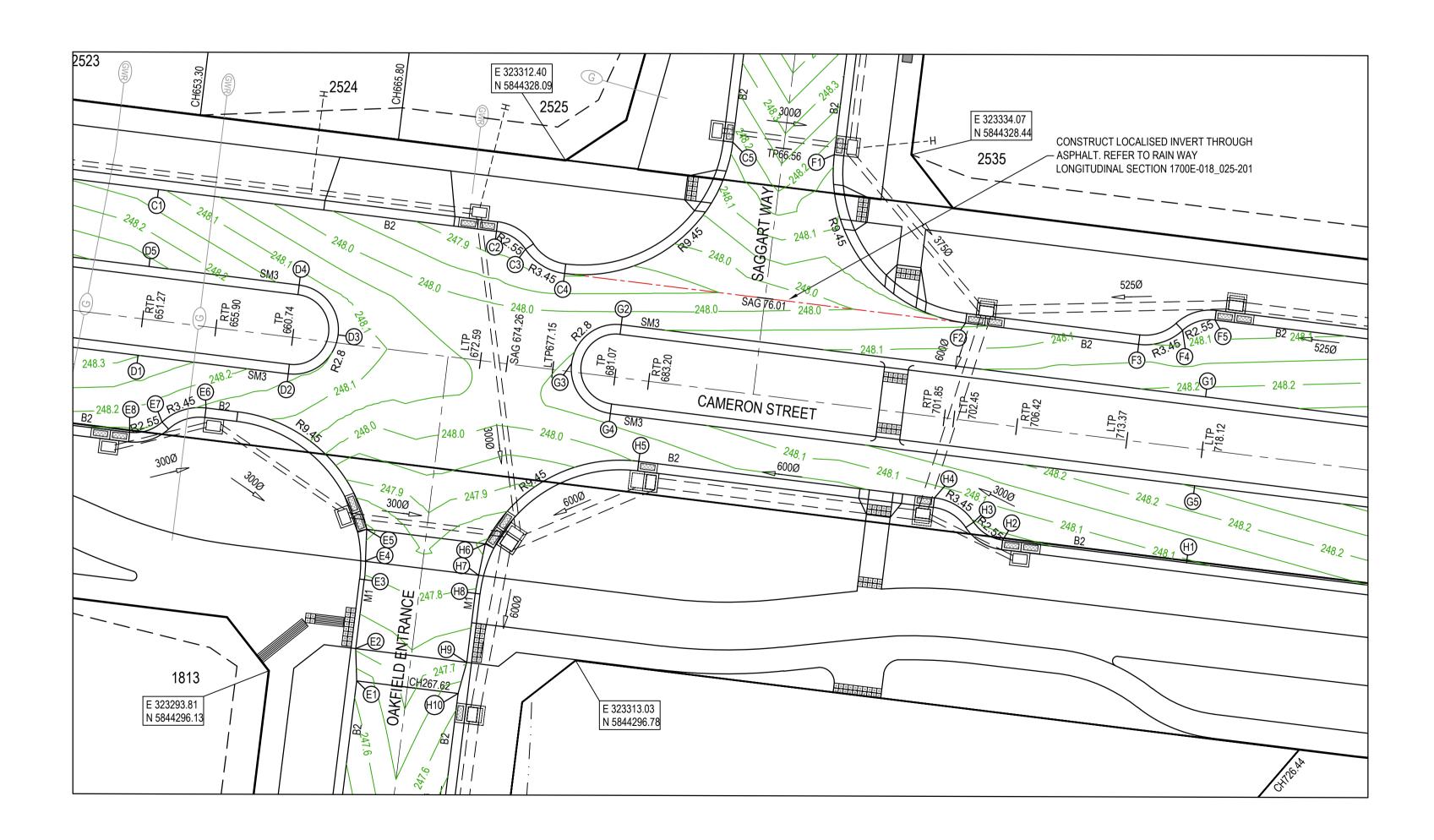
SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.

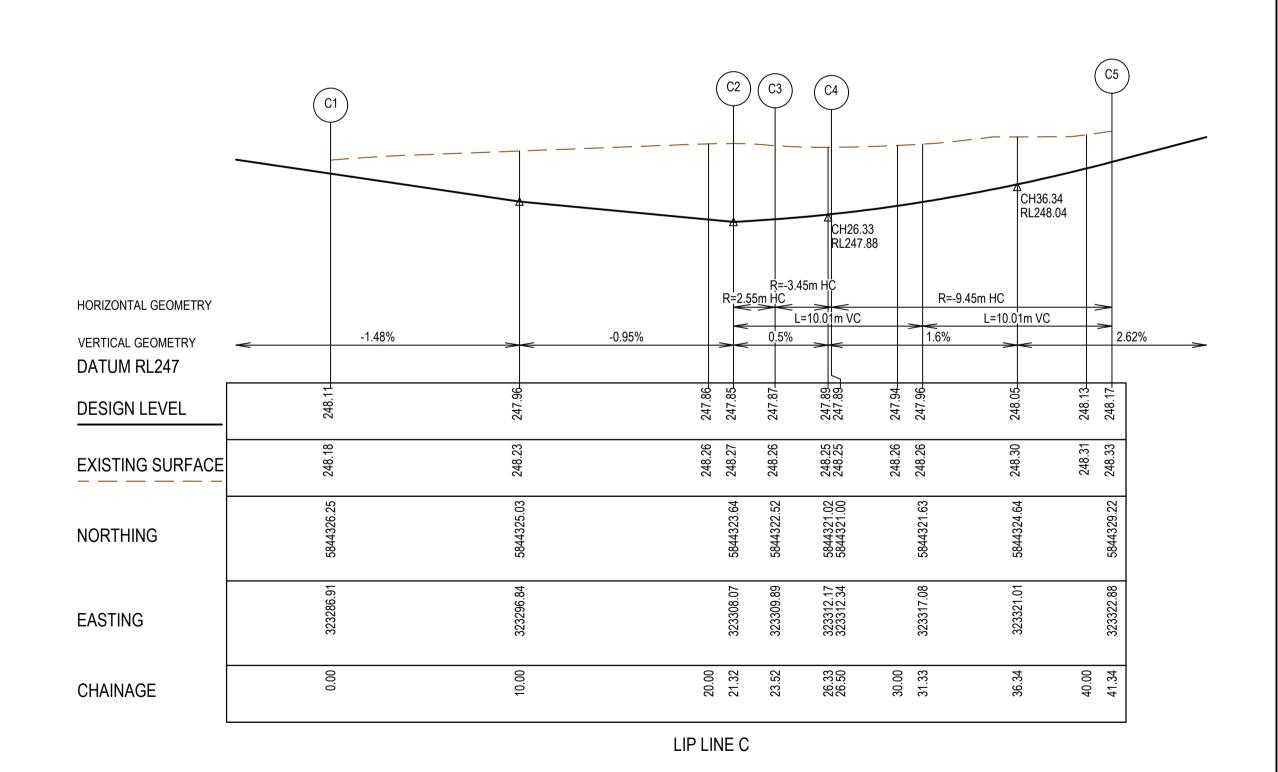
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.

4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF

PART OF THE LANDSCAPE WORKS.

LANDSCAPE WORKS.





AS CONSTRUCTED PLANS

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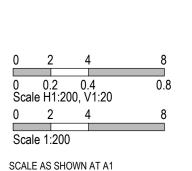


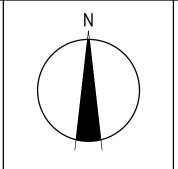


AS CONSTRUCTED







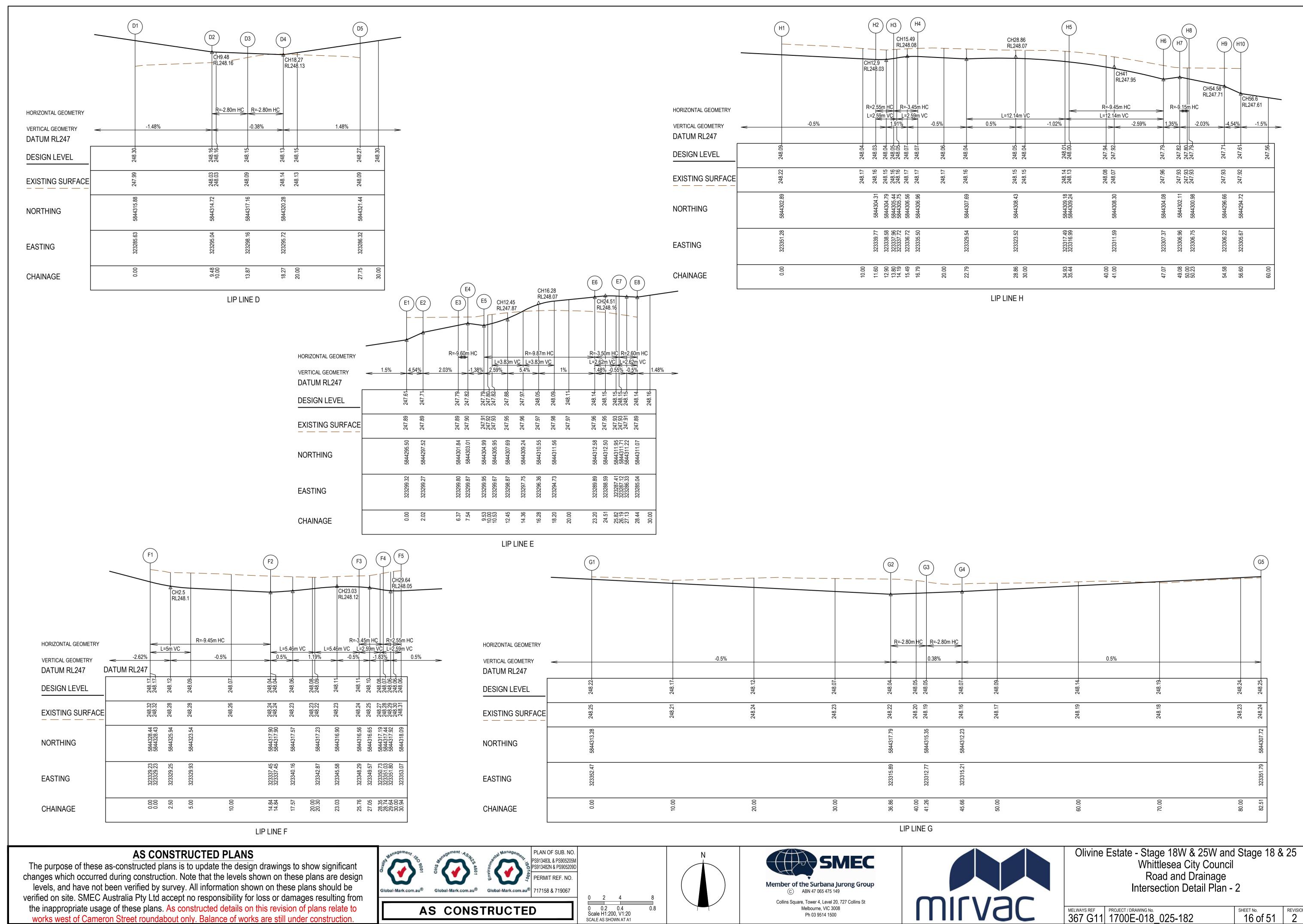




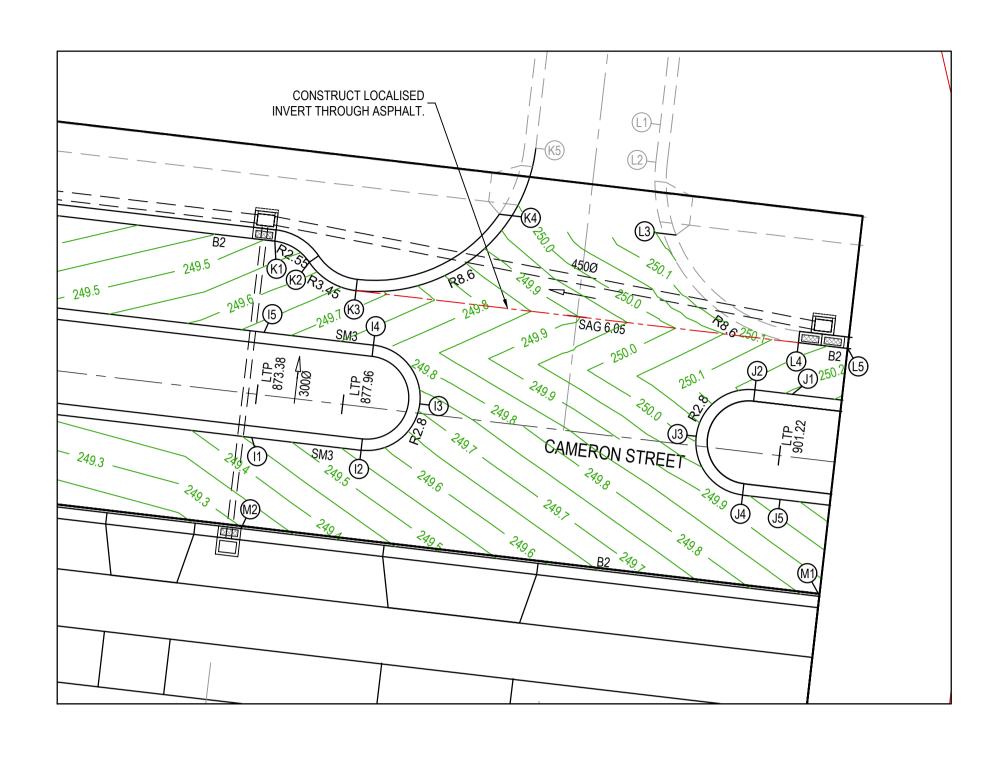


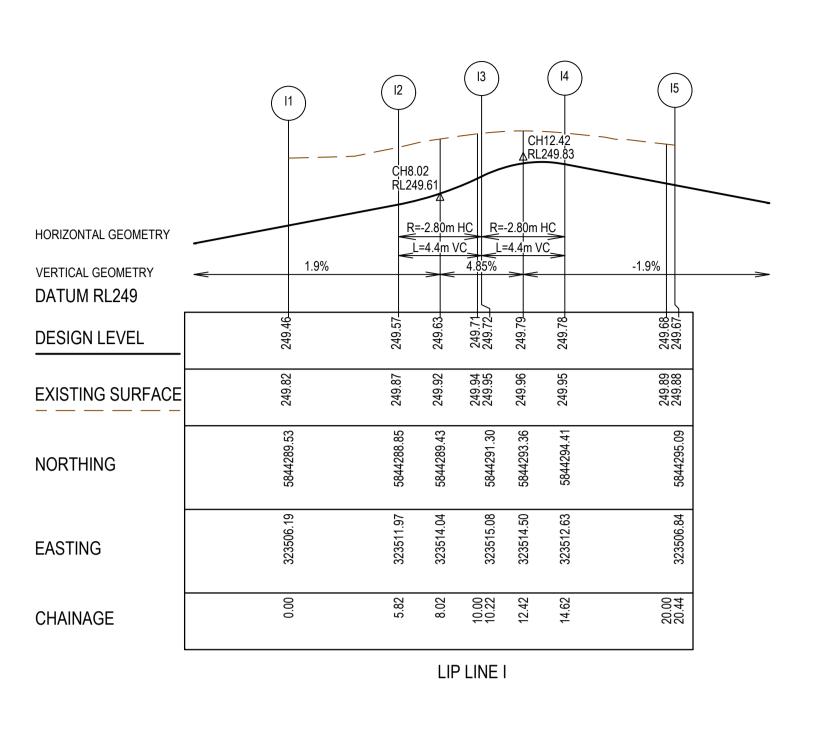
Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Intersection Detail Plan - 1

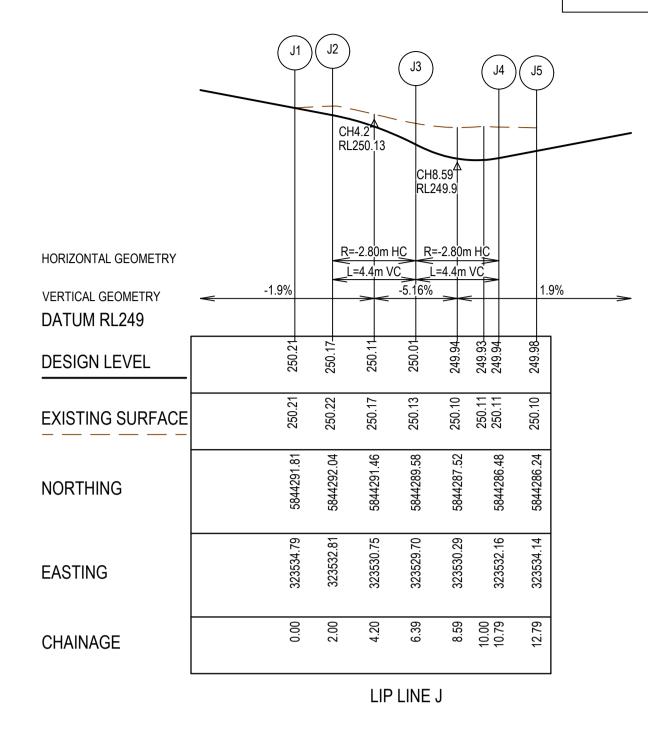
MELWAYS REF PROJECT / DRAWING No. 1700E-018_025-181

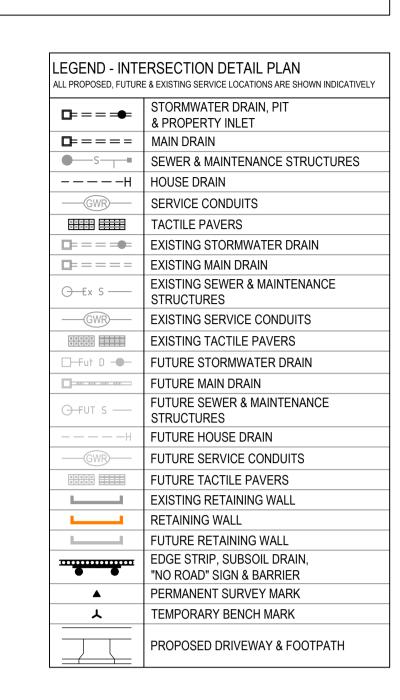


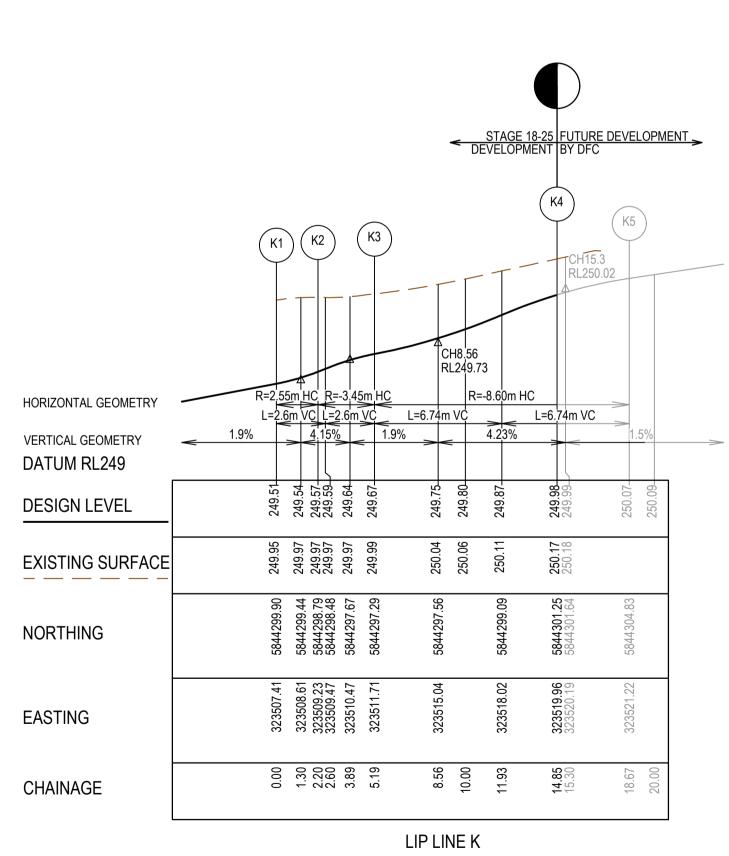
- ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
- VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
 - INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS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

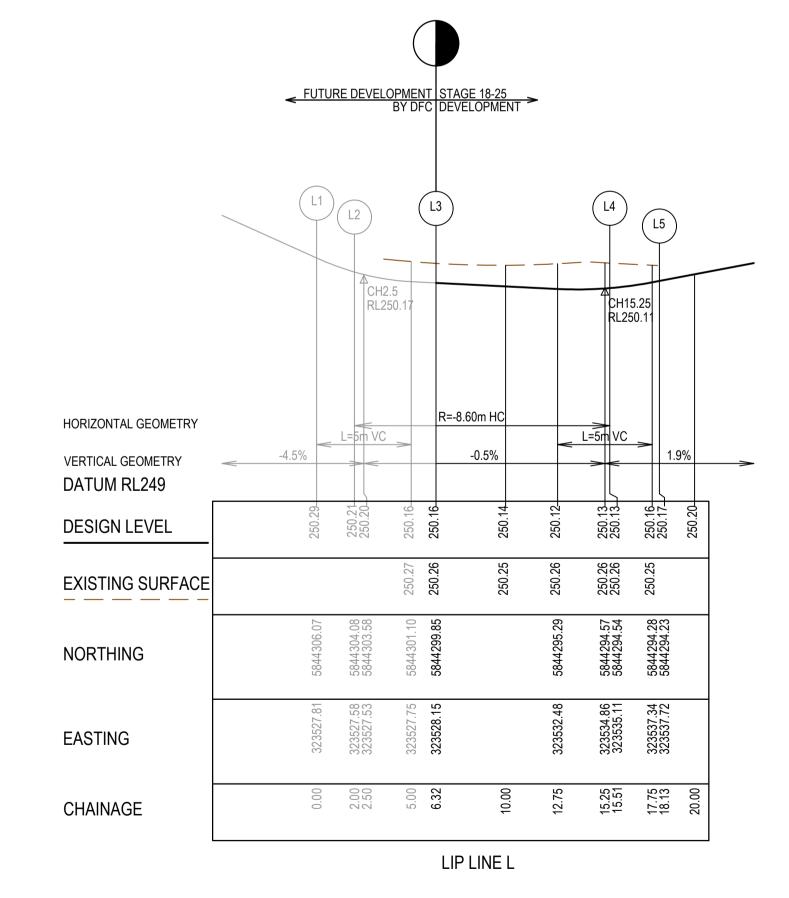


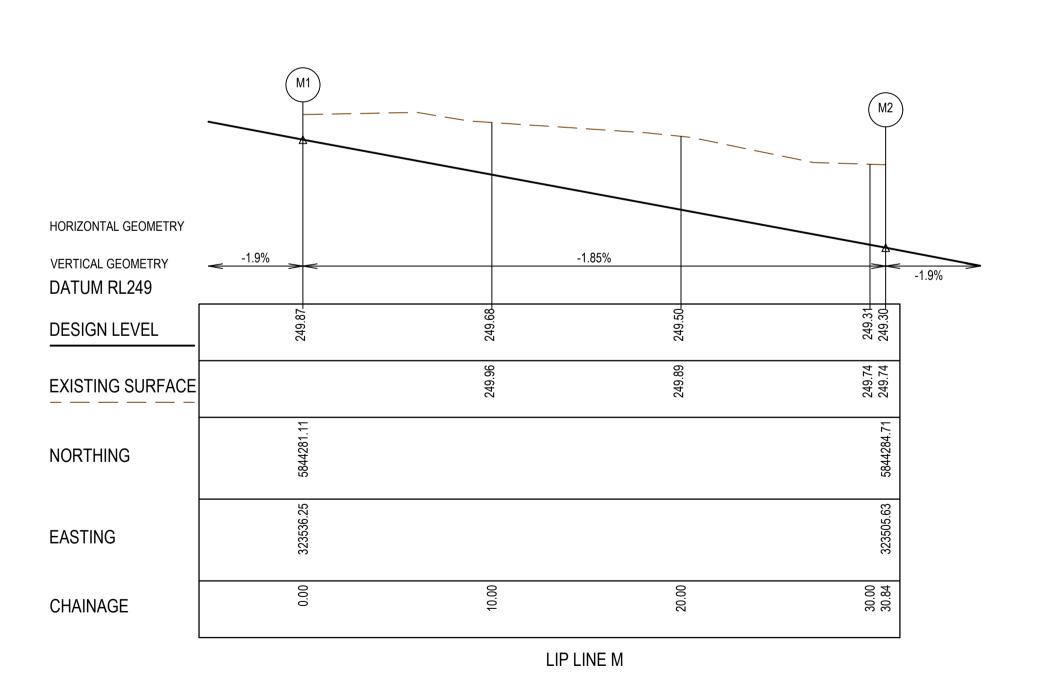












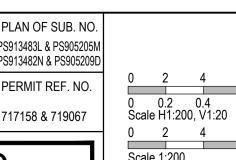
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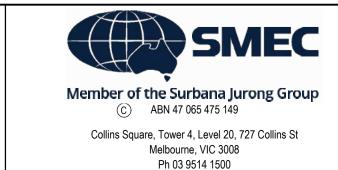


AS CONSTRUCTED





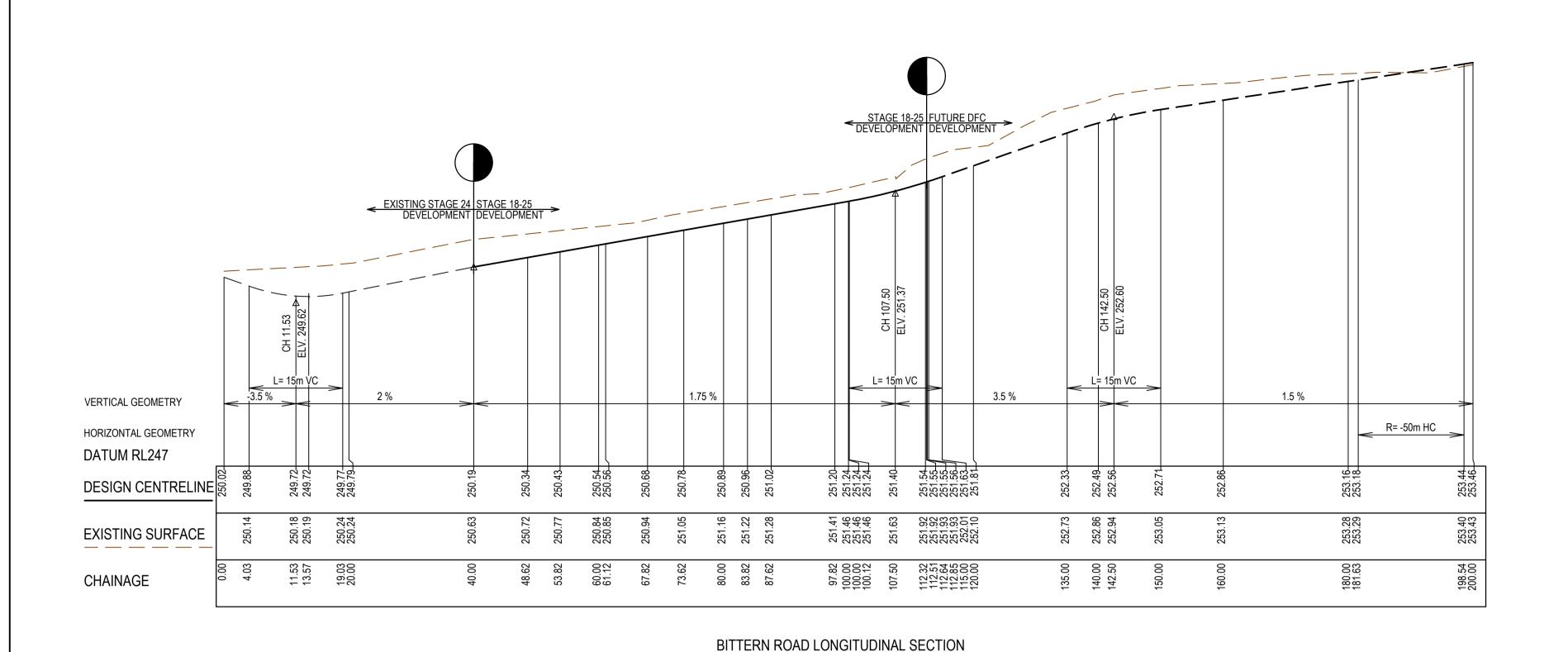
SCALE AS SHOWN AT A1

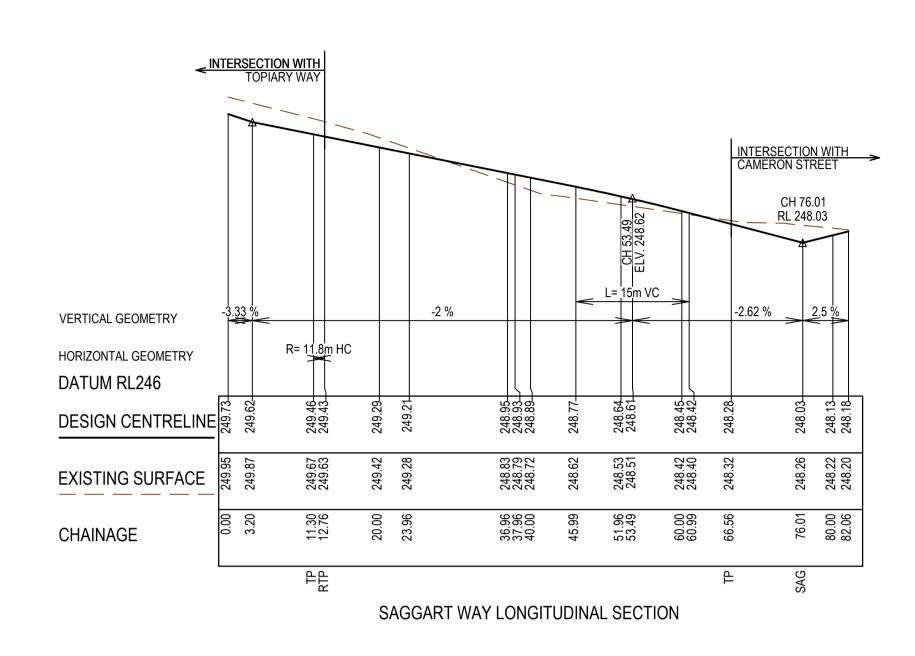


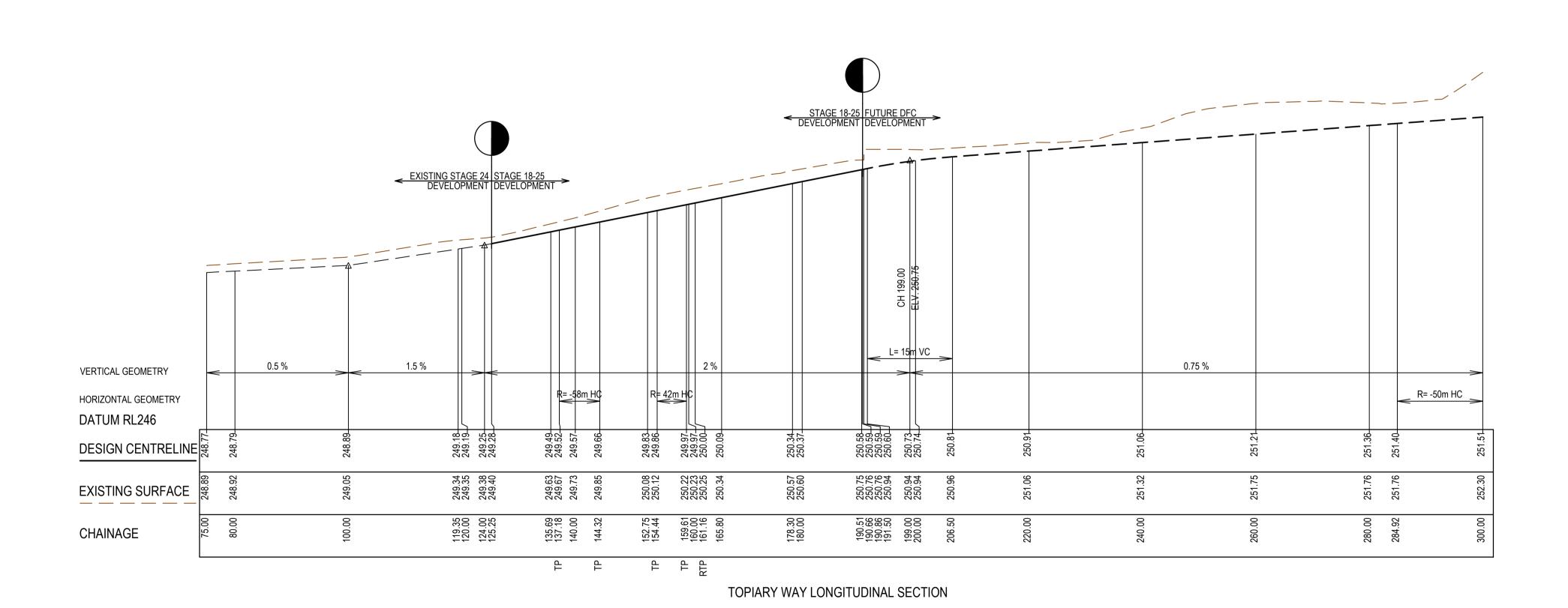


Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage Intersection Detail Plan - 3

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018 025-183







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AS CONSTRUCTED

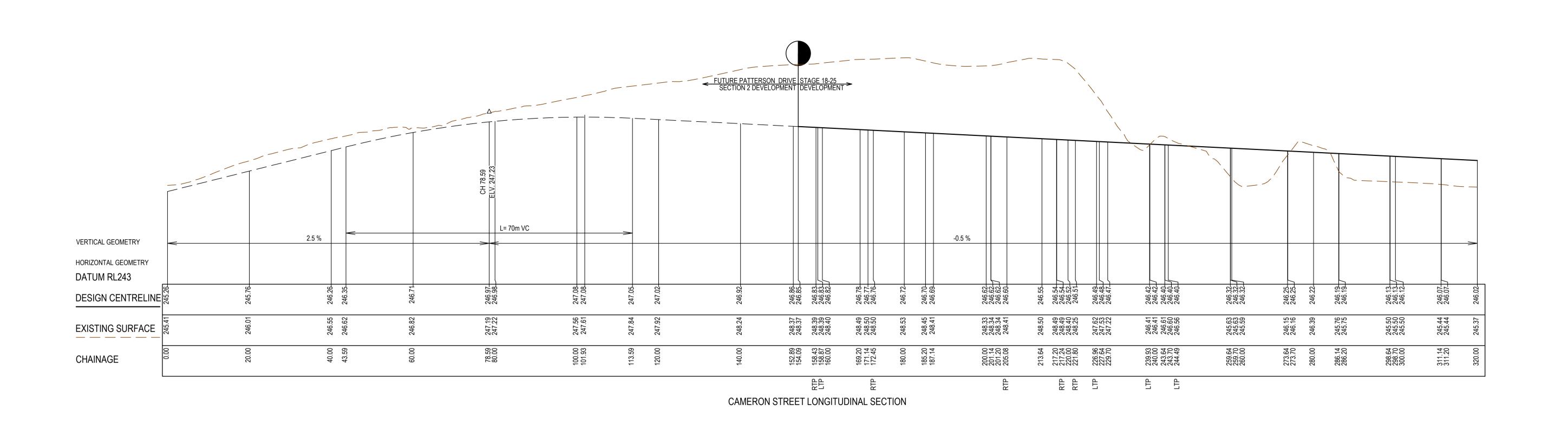


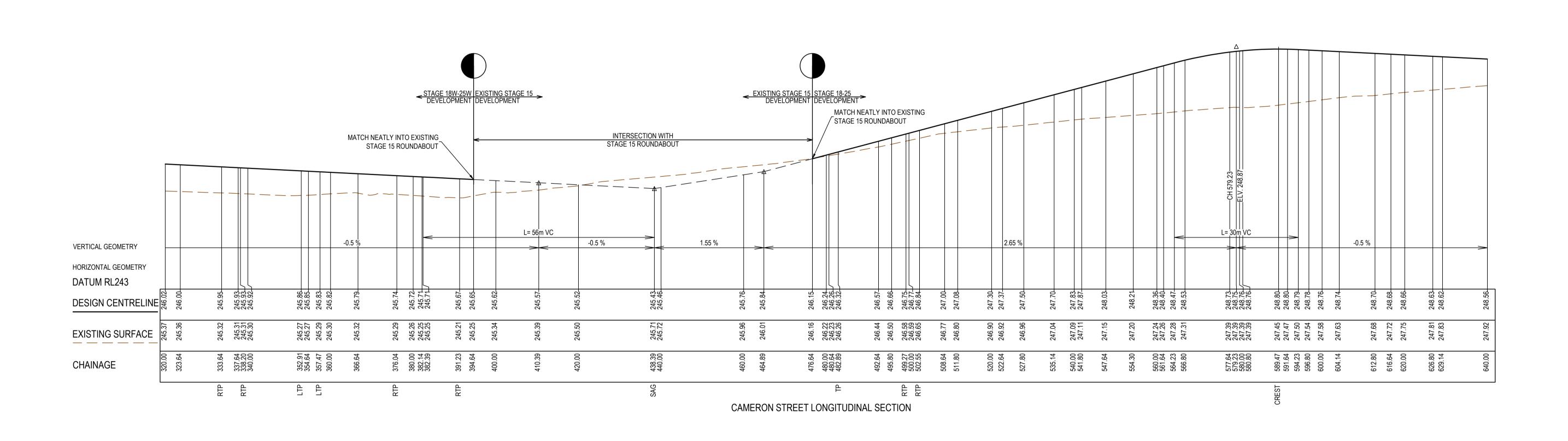




Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 1

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018 025-201





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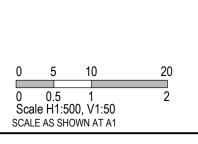




AS CONSTRUCTED





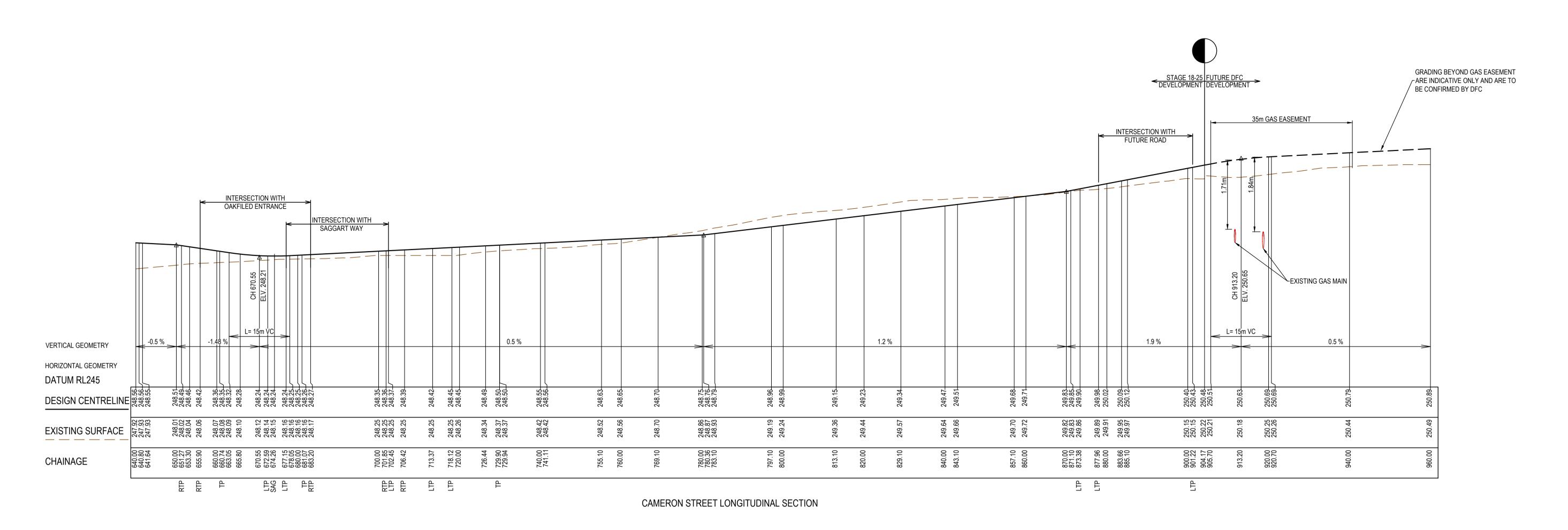


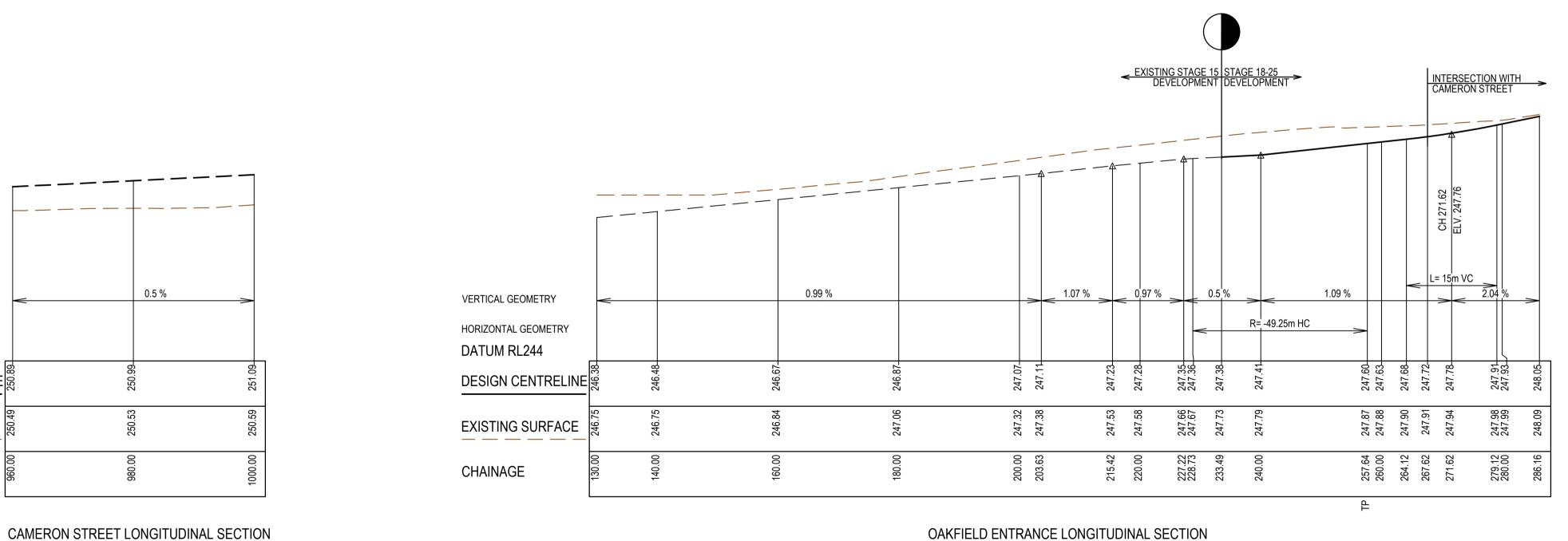




Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 2

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018_025-202





0.5 %

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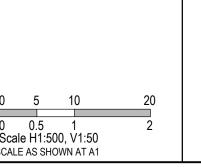






AS CONSTRUCTED









Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Longitudinal Sections - 3

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018_025-203

VERTICAL GEOMETRY

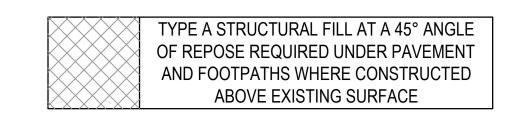
HORIZONTAL GEOMETRY

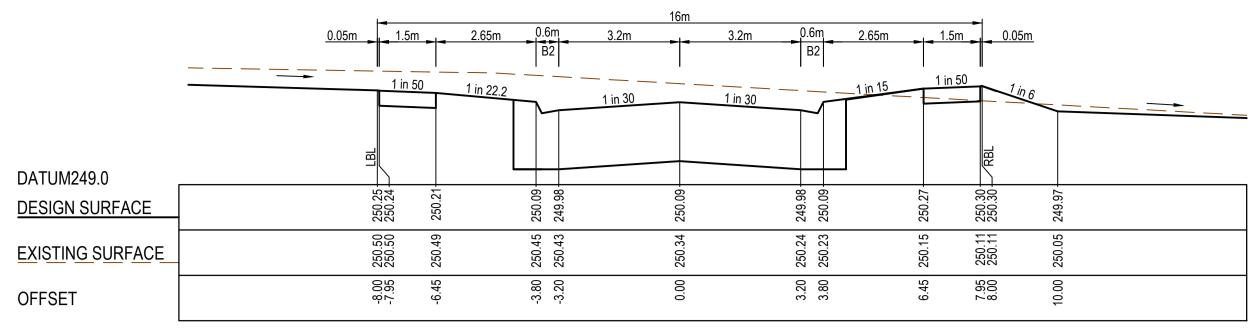
DESIGN CENTRELINE

EXISTING SURFACE

DATUM RL248

CHAINAGE

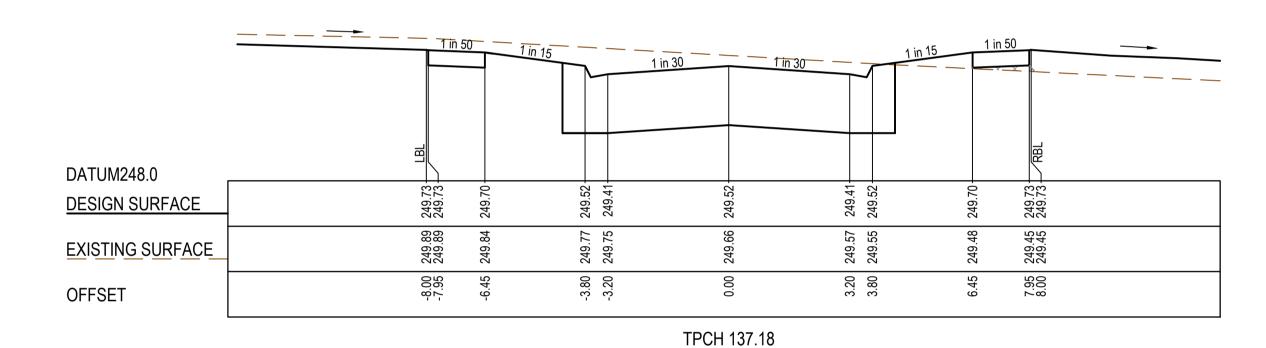


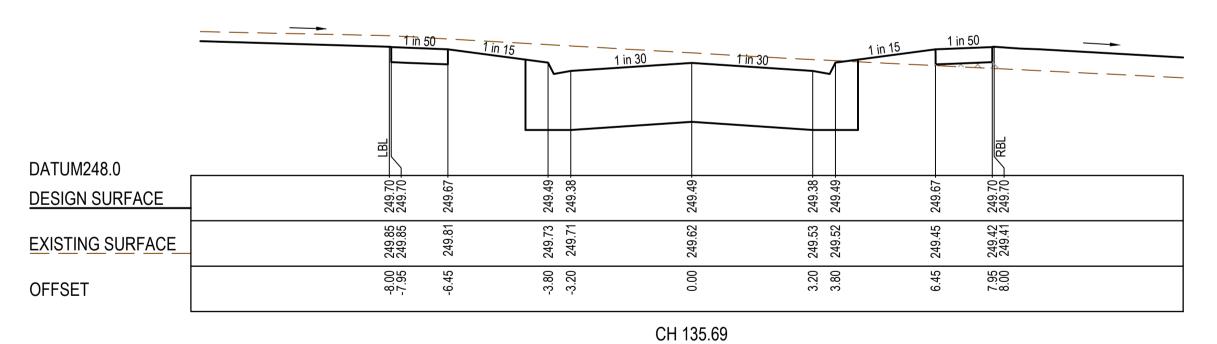


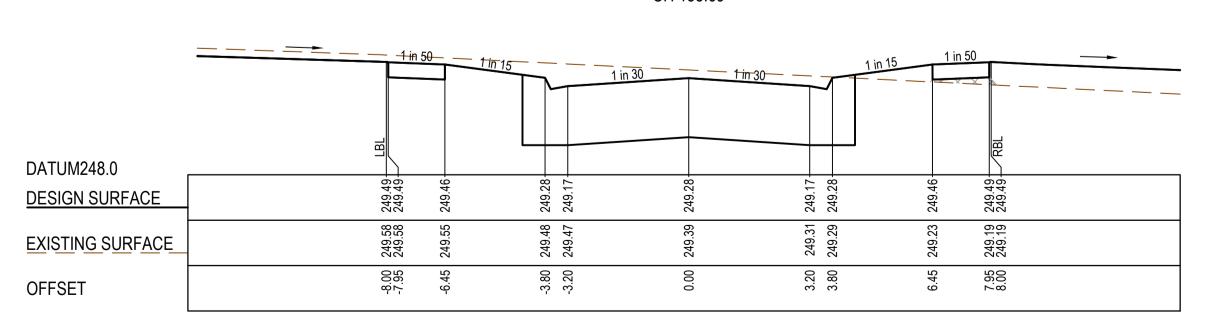
TPCH 165.80

		1 in 5	1 in 2	2.2	1 in 30	1 in 30	1 in 15	1 in 50	1 in 6	
DATUM248.0	Г									
DESIGN SURFACE		250.15- 250.15-	250.12	250.00-	250.00	249.89	250.00	250.21	250.21	
EXISTING SURFACE		250.42 250.42	250.41	250.36	250.25	250.16	250.14	250.02	250.02	
OFFSET		-8.00 -7.95	-6.45	-3.80	0.00	3.20	3.80	7.95	8.00 0.00	

RTPCH 161.16







DATUM249.0 DESIGN SURFACE 250.70 250.70 EXISTING SURFACE -8.00 -7.95 OFFSET

250.74 250.74

-8.00 -7.95

DATUM249.0

OFFSET

DESIGN SURFACE

EXISTING SURFACE

250.55 250.55 250.35 250.35 3.20 7.95 8.00

CH 190.66

-3.80

AS CONSTRUCTED PLANS

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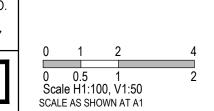
CH 125.25



AS CONSTRUCTED









Ph 03 9514 1500



Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Topiary Way

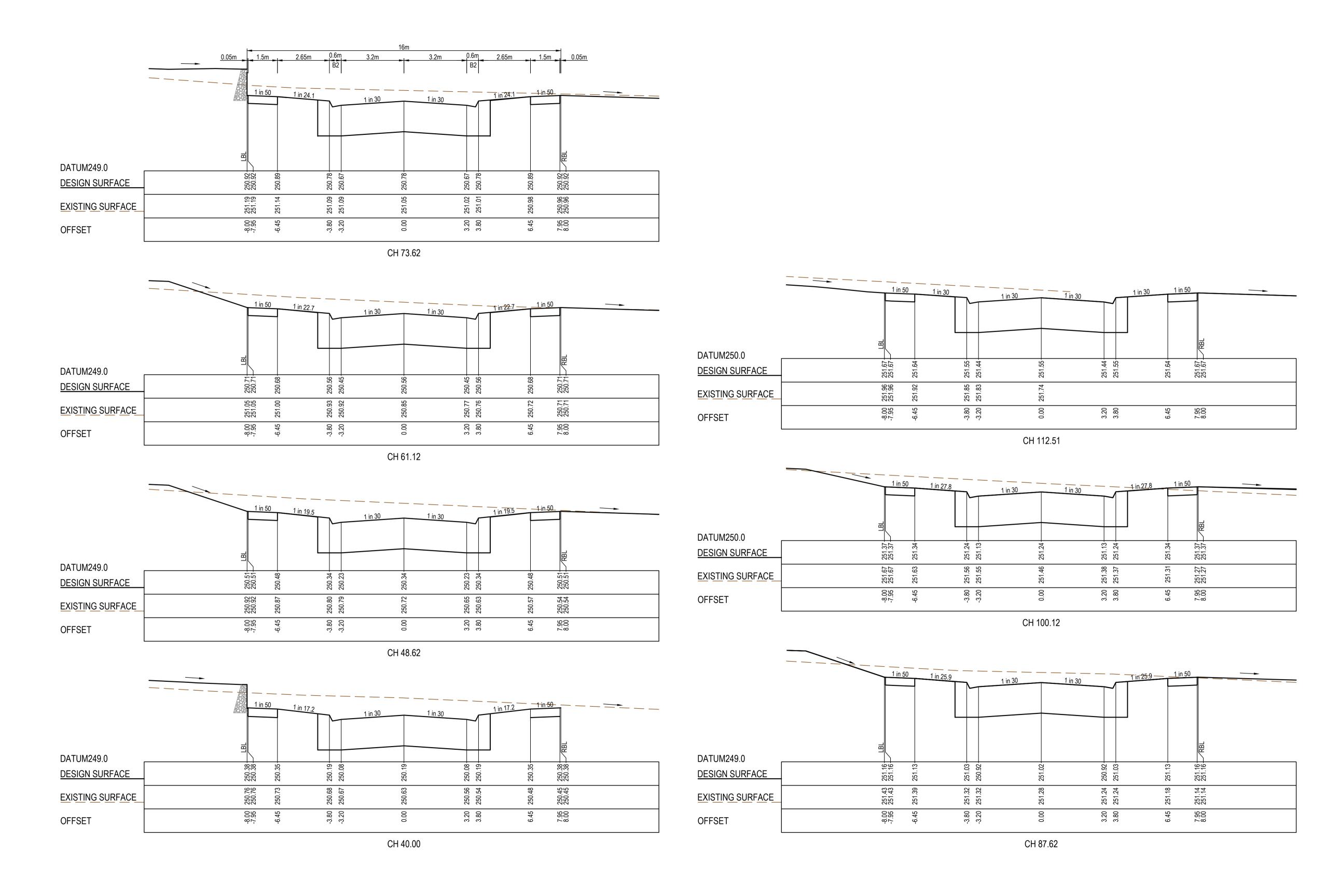
MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018_025-251

250.80 250.80

7.95 8.00

3.20

CH 178.30



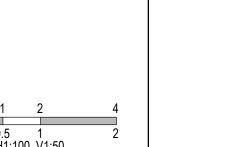
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PLAN OF SUB. NO. PS913483L & PS905205M PS913482N & PS905209D PERMIT REF. NO. AS CONSTRUCTED

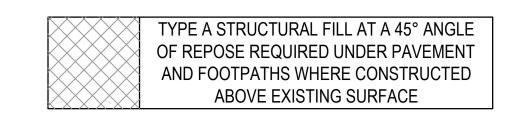


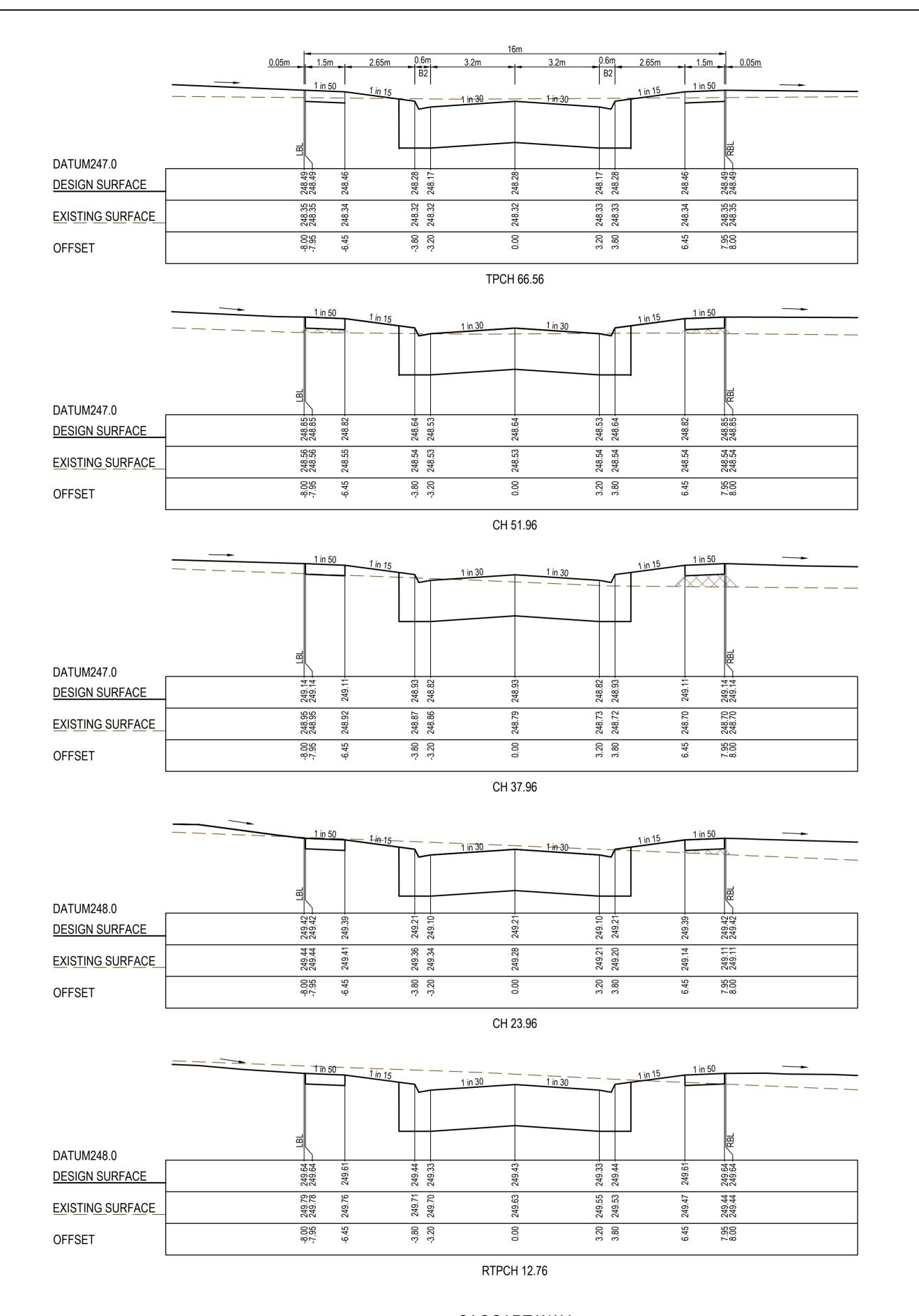


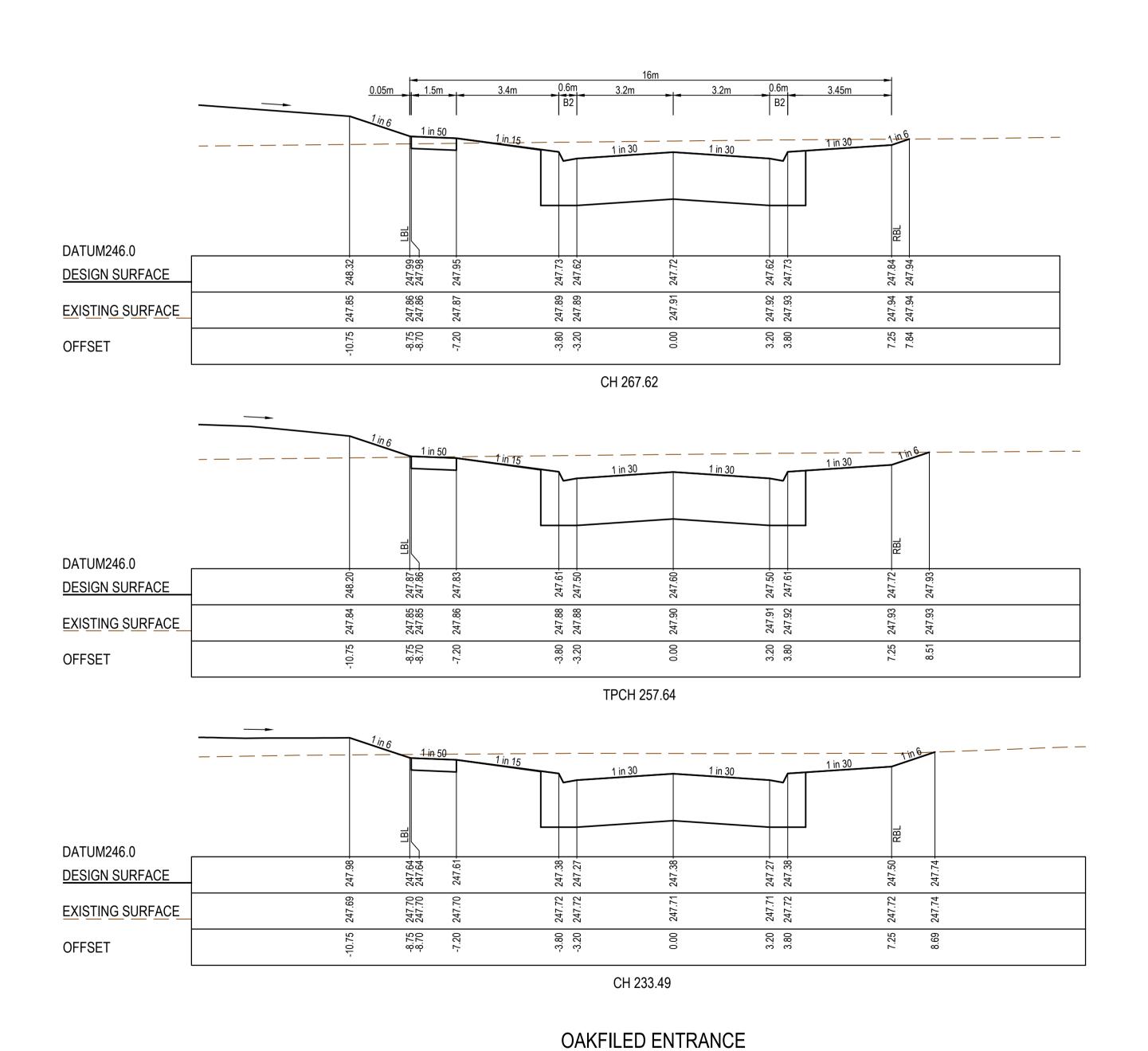


Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage Cross Sections: Bittern Road

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018_025-252







SAGGART WAY

AS CONSTRUCTED PLANS

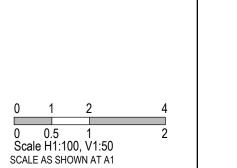
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PLAN OF SUB. NO. PS913483L & PS905205M PS913482N & PS905209D PERMIT REF. NO. AS CONSTRUCTED

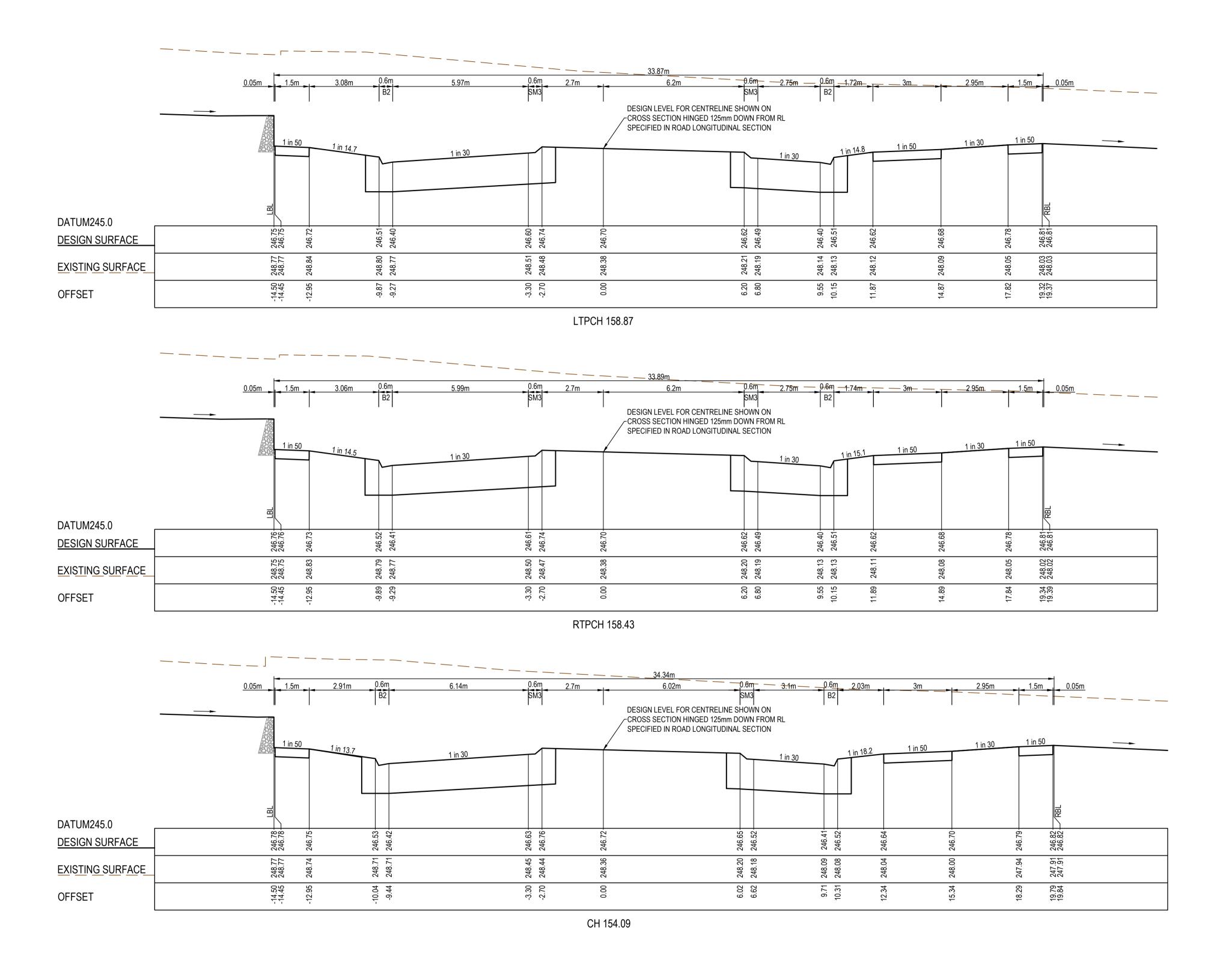






Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Saggart Way & Oakfiled Entrance

MELWAYS REF PROJECT / DRAWING No. 1700E-018_025-253



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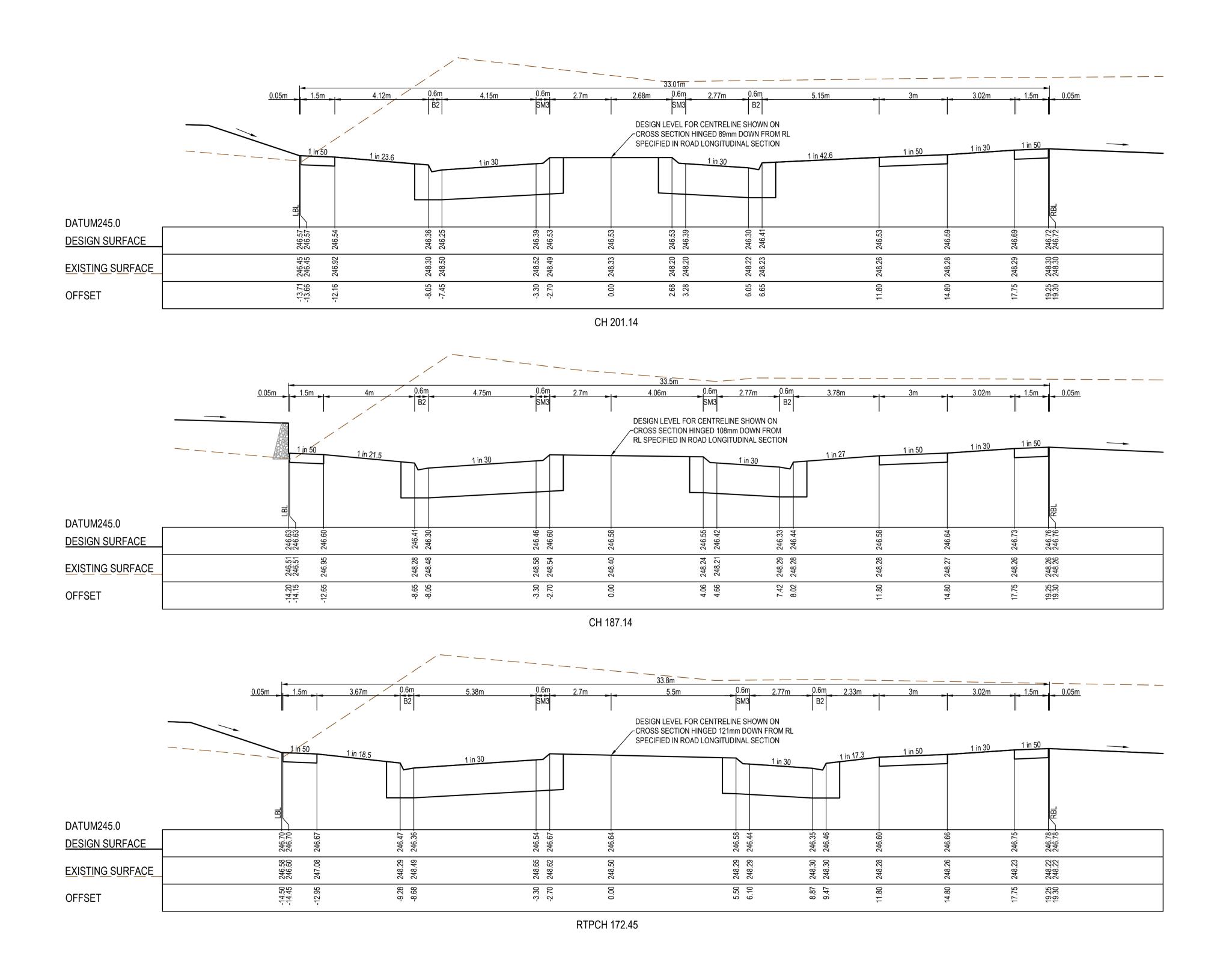


Ph 03 9514 1500



Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 1

Ch 154.09 - Ch 158.87 MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018_025-254



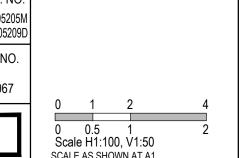
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AS CONSTRUCTED







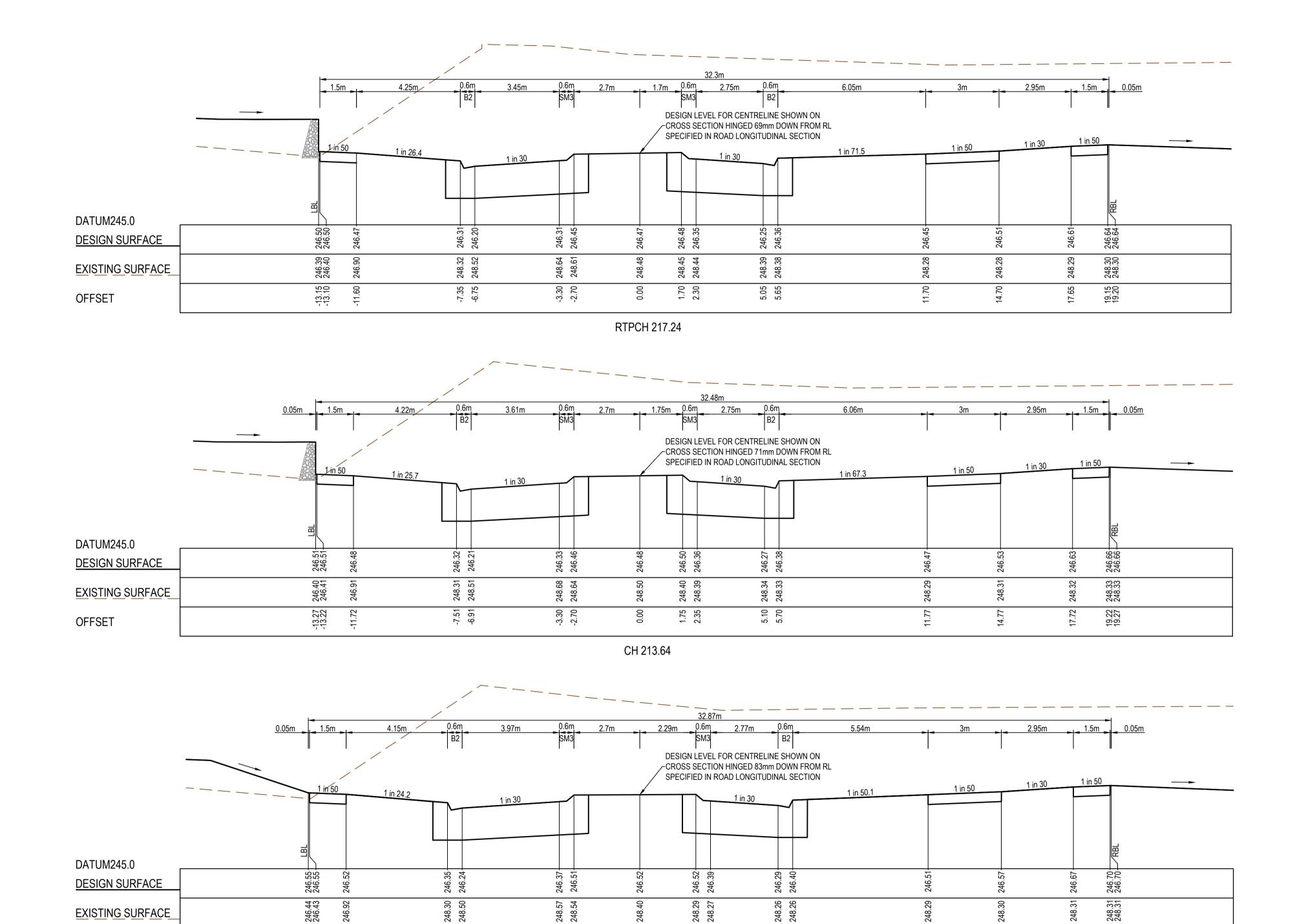
Ph 03 9514 1500



Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 2
Ch 172.45 - Ch 201.14

MELWAYS REF PROJECT / DRAWING No. 1700E-018_025-255

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OFFSET

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-13.57 -13.52



-7.87



-3.30

RTPCH 205.08



Ph 03 9514 1500

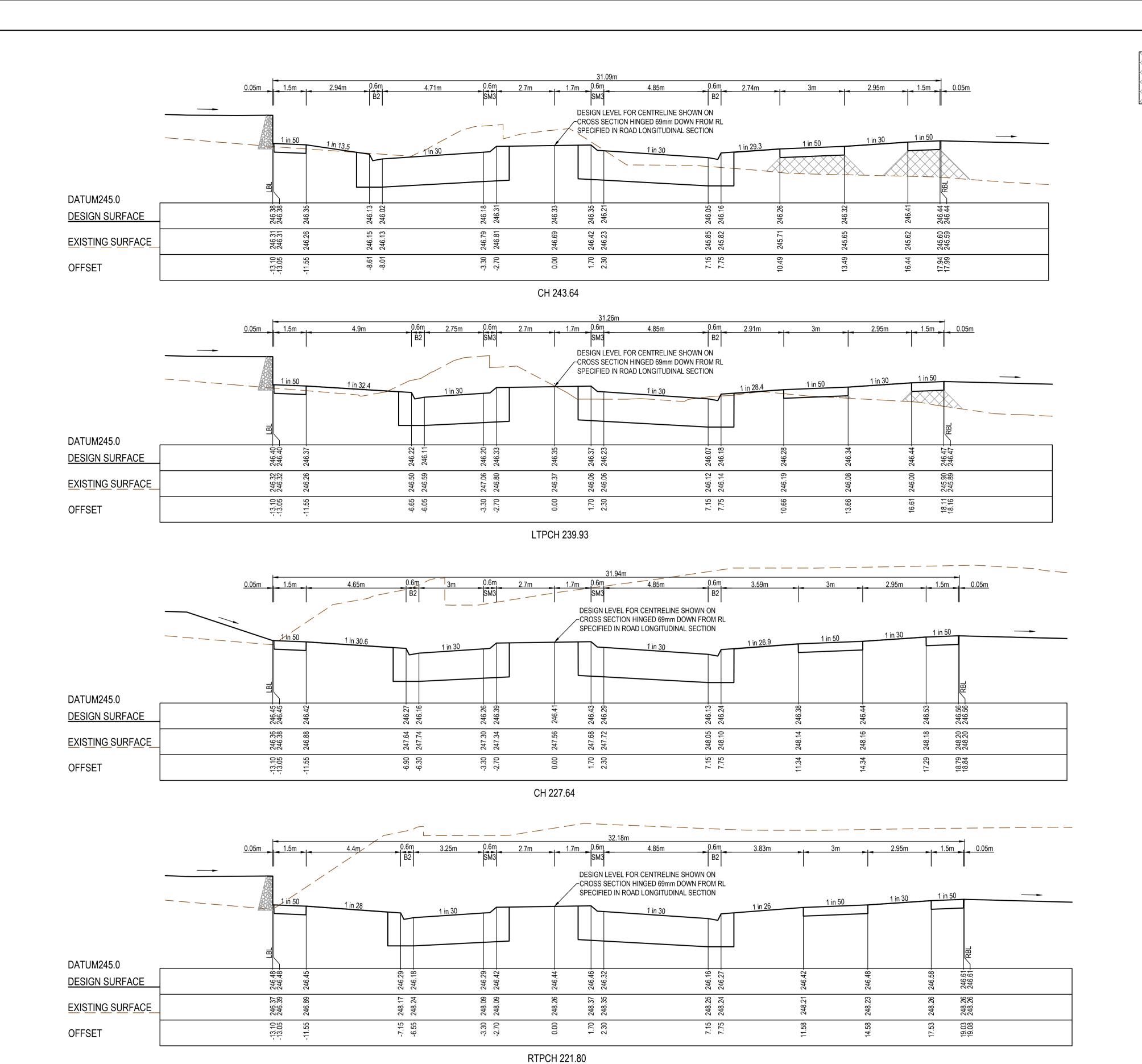
5.66 6.26



19.25 19.30

Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 3

Ch 205.08 - Ch 217.20 MELWAYS REF PROJECT / DRAWING No.



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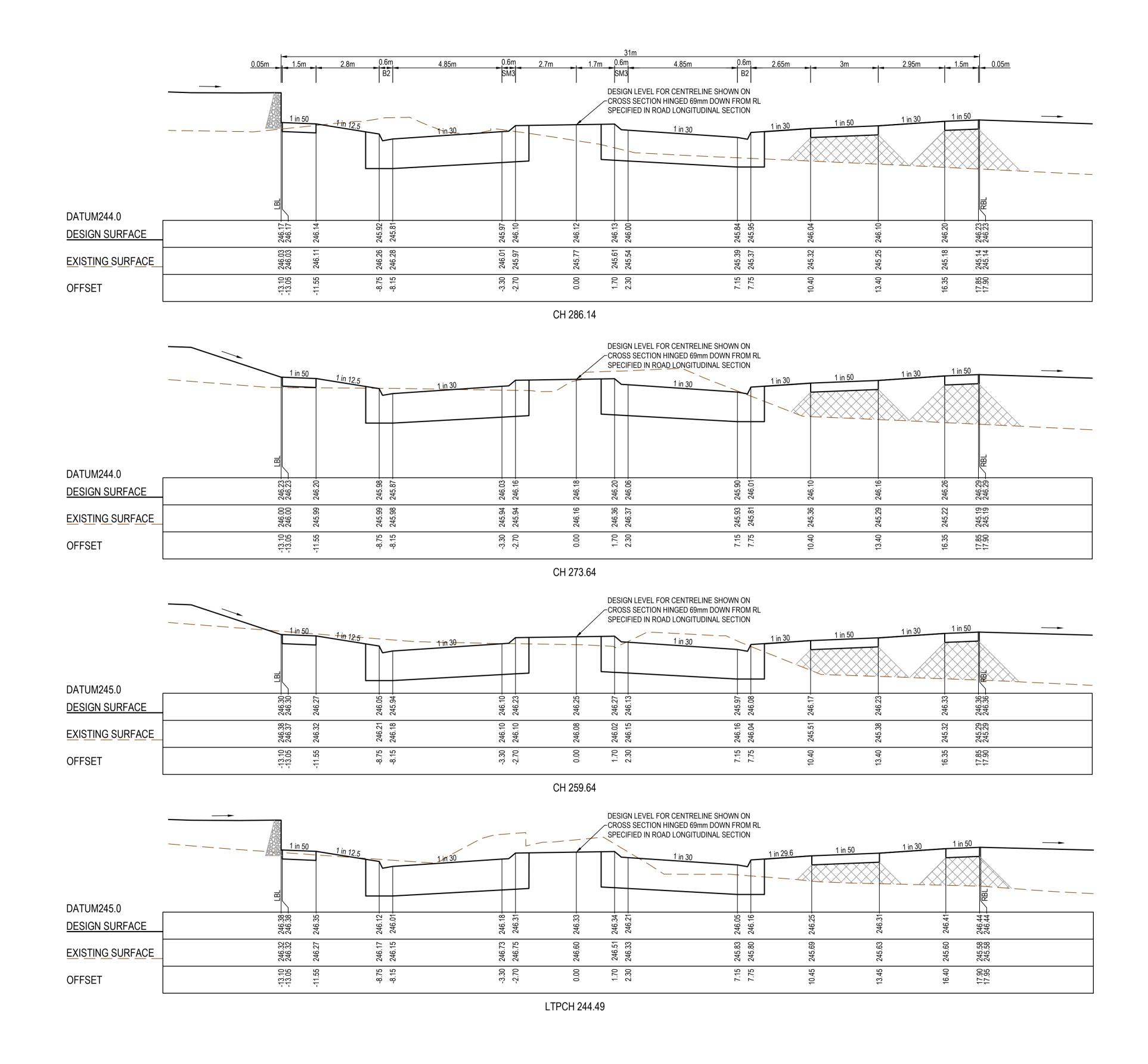


Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 4
Ch 221.80 - Ch 243.64

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

MELWAYS REF PROJECT / DRAWING No. 267 C11 1700E 019 025 257

Ph 03 9514 1500 367 G11 1700E-018_025-257



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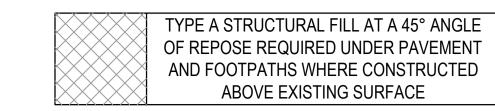


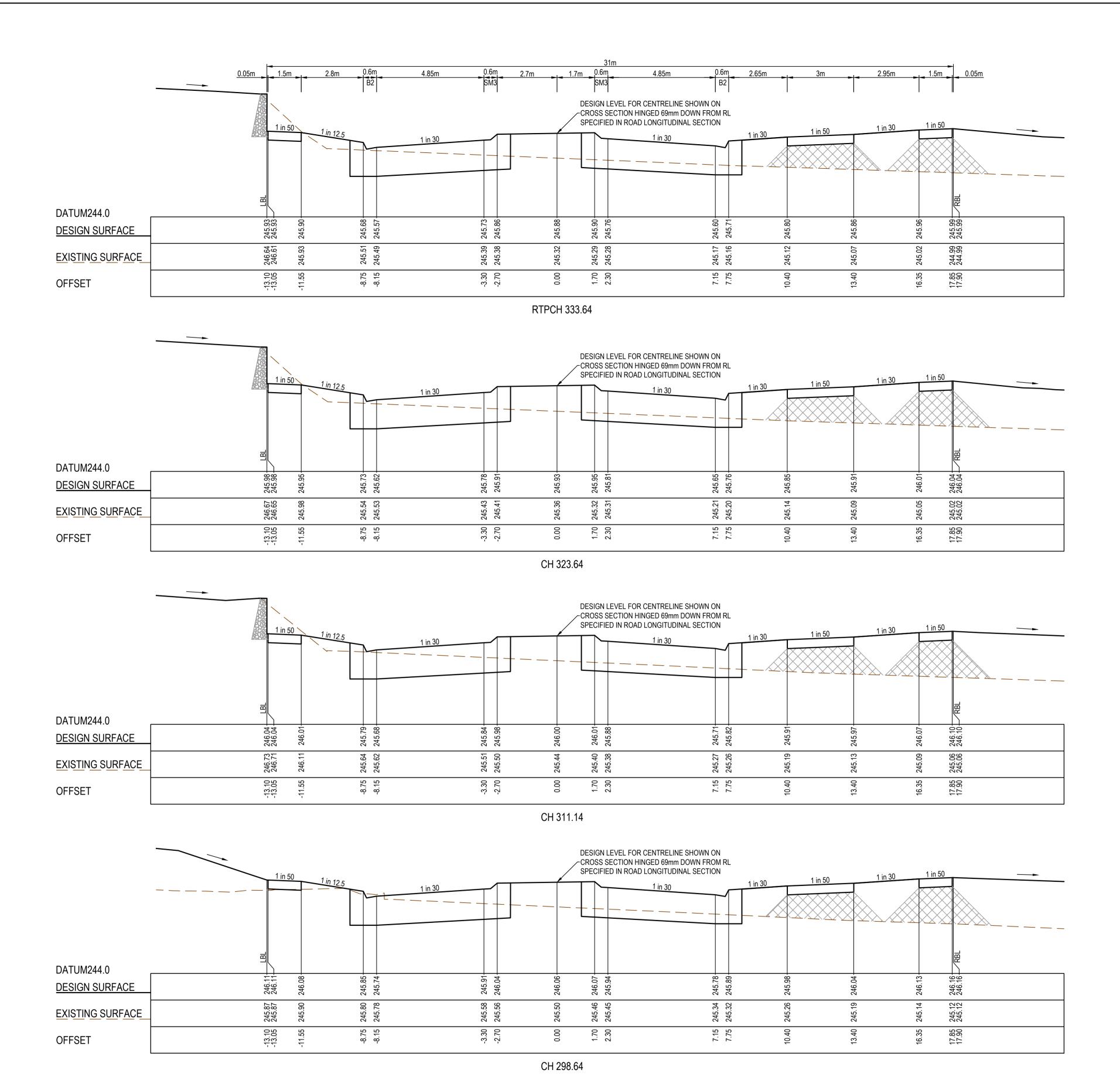
Ph 03 9514 1500



Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 5 Ch 244.49 - Ch 286.14

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018_025-258





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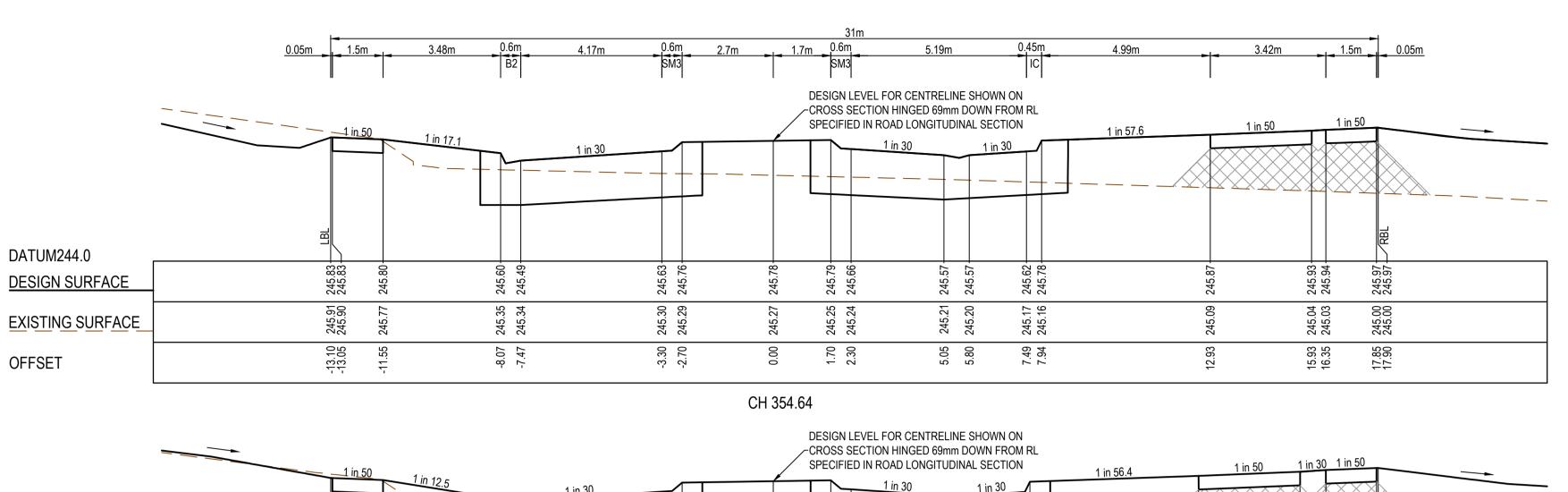


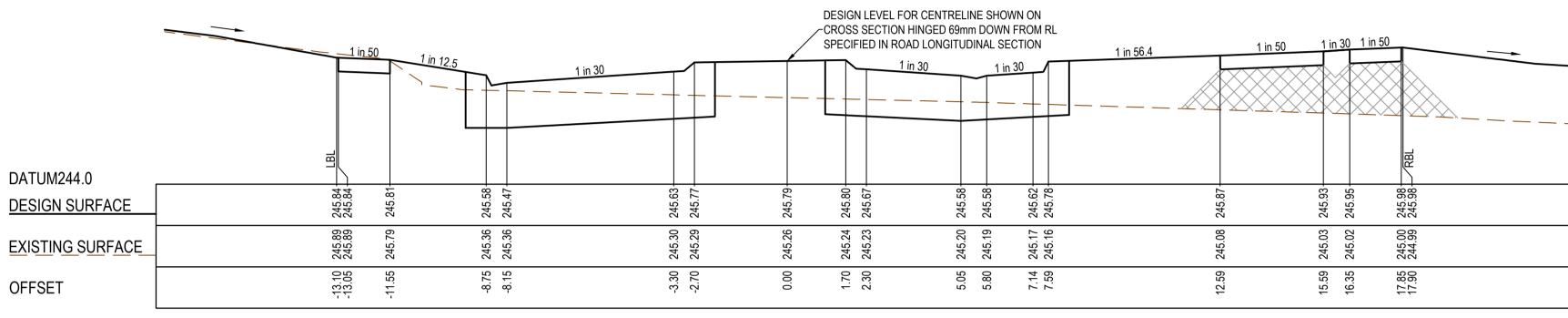


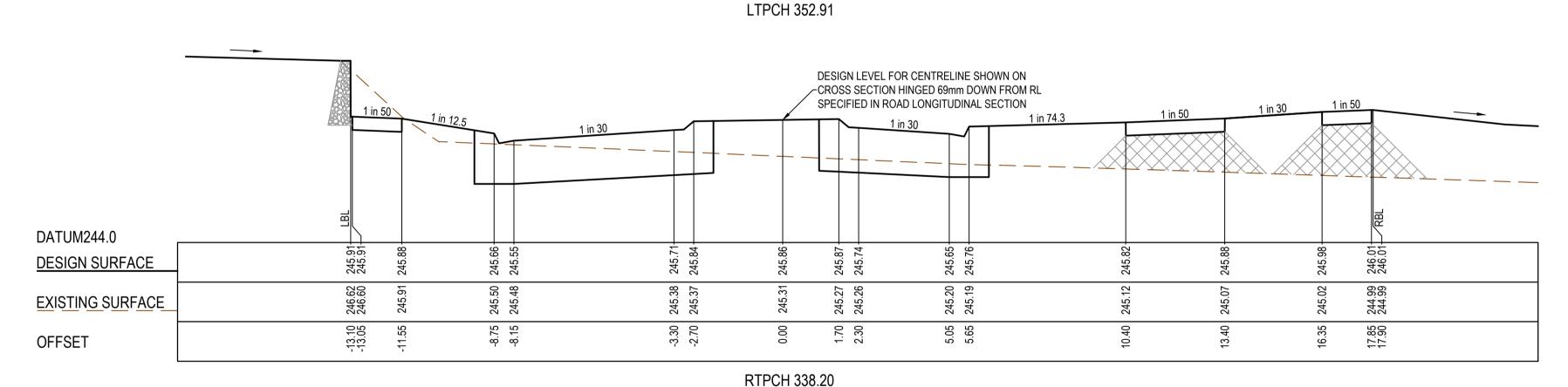
Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage Cross Sections: Cameron Street - 6 Ch 298.64 - Ch 333.64

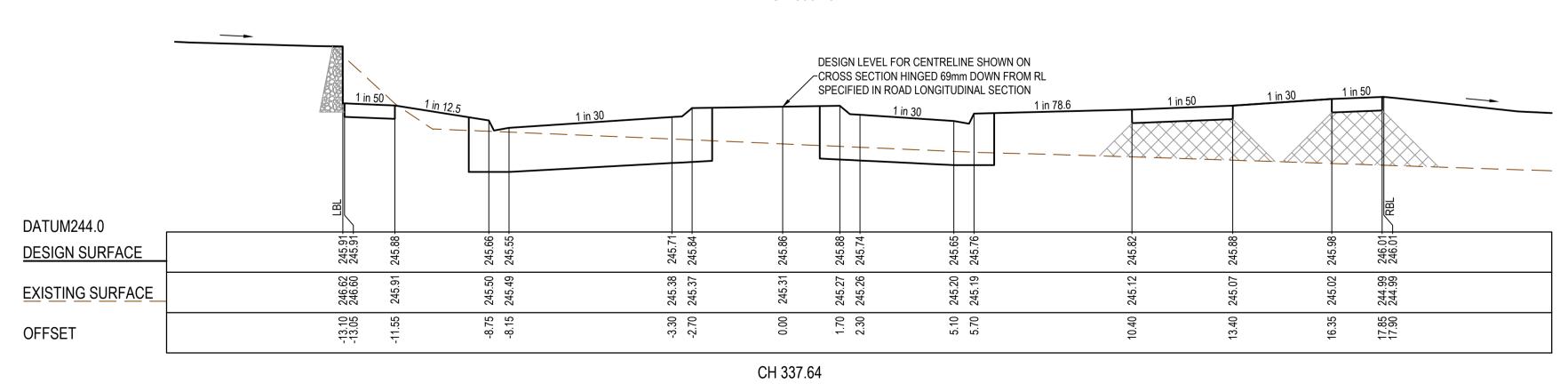
MELWAYS REF PROJECT / DRAWING No.

367 G11 1700E-018_025-259









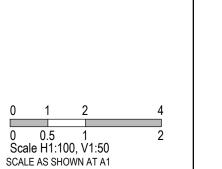
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AS CONSTRUCTED

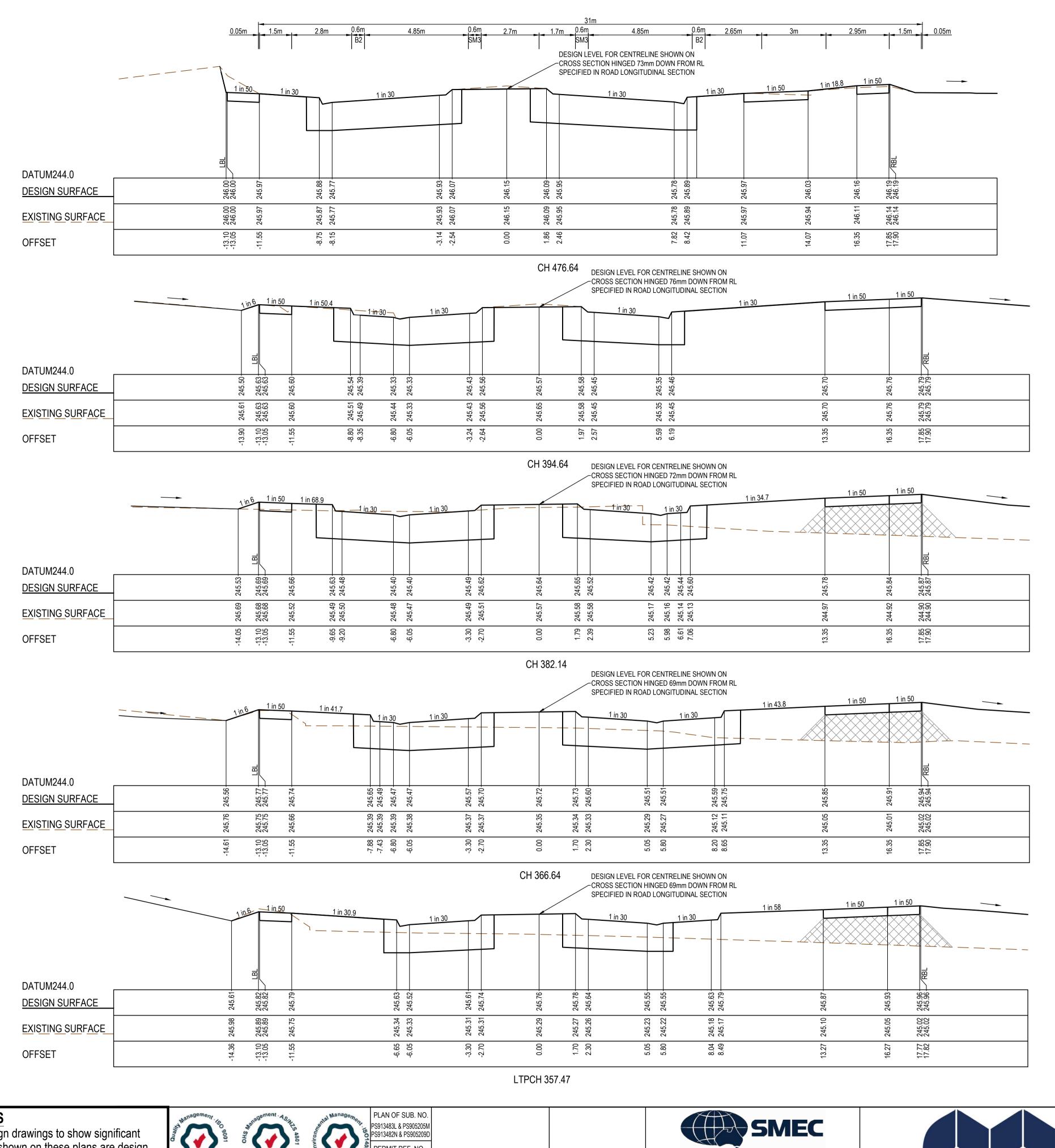








Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 7



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Ph 03 9514 1500

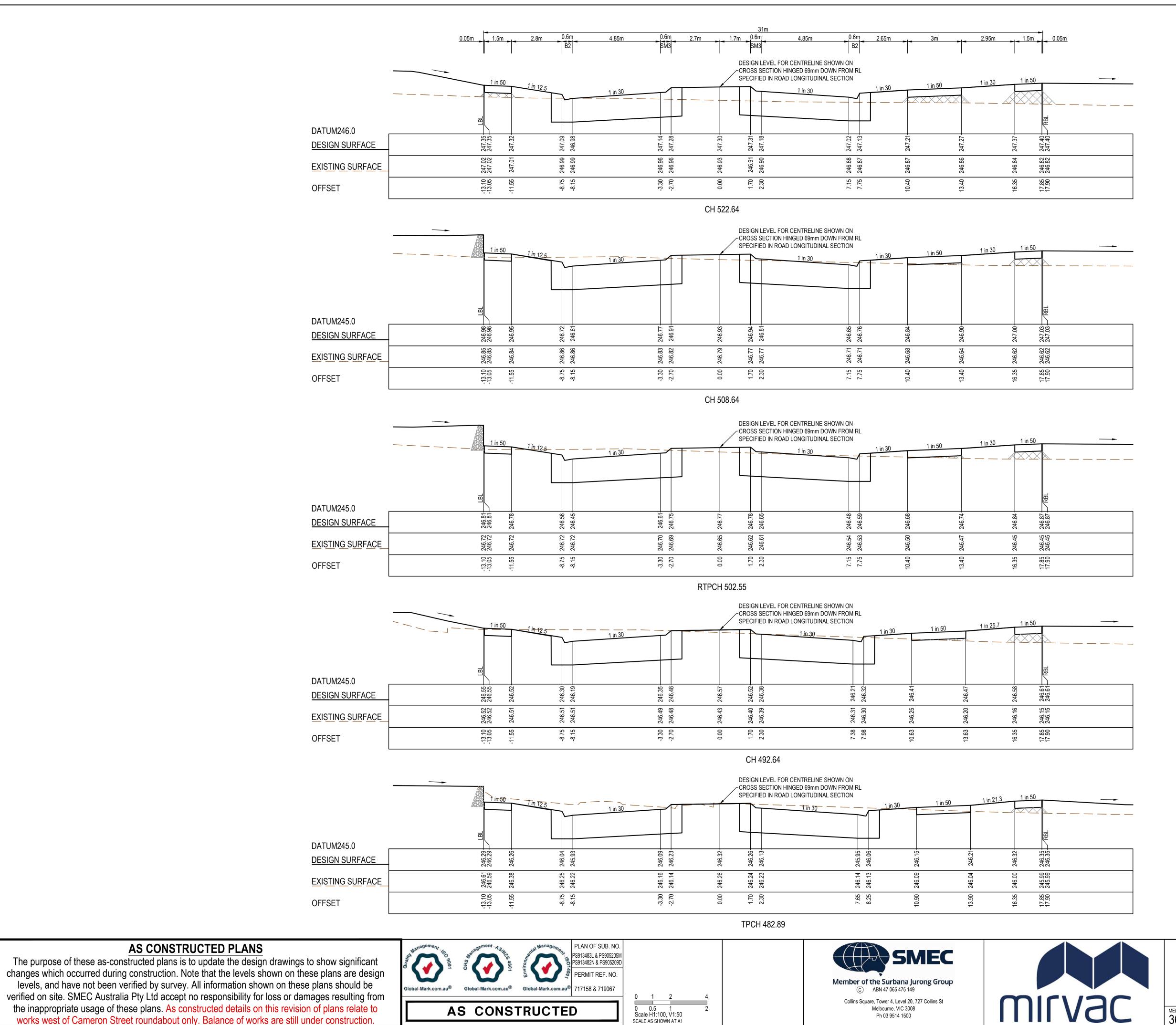


Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage Cross Sections: Cameron Street - 8 Ch 357.47 - Ch 476.64

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018_025-261

TYPE A STRUCTURAL FILL AT A 45° ANGLE OF REPOSE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED

ABOVE EXISTING SURFACE



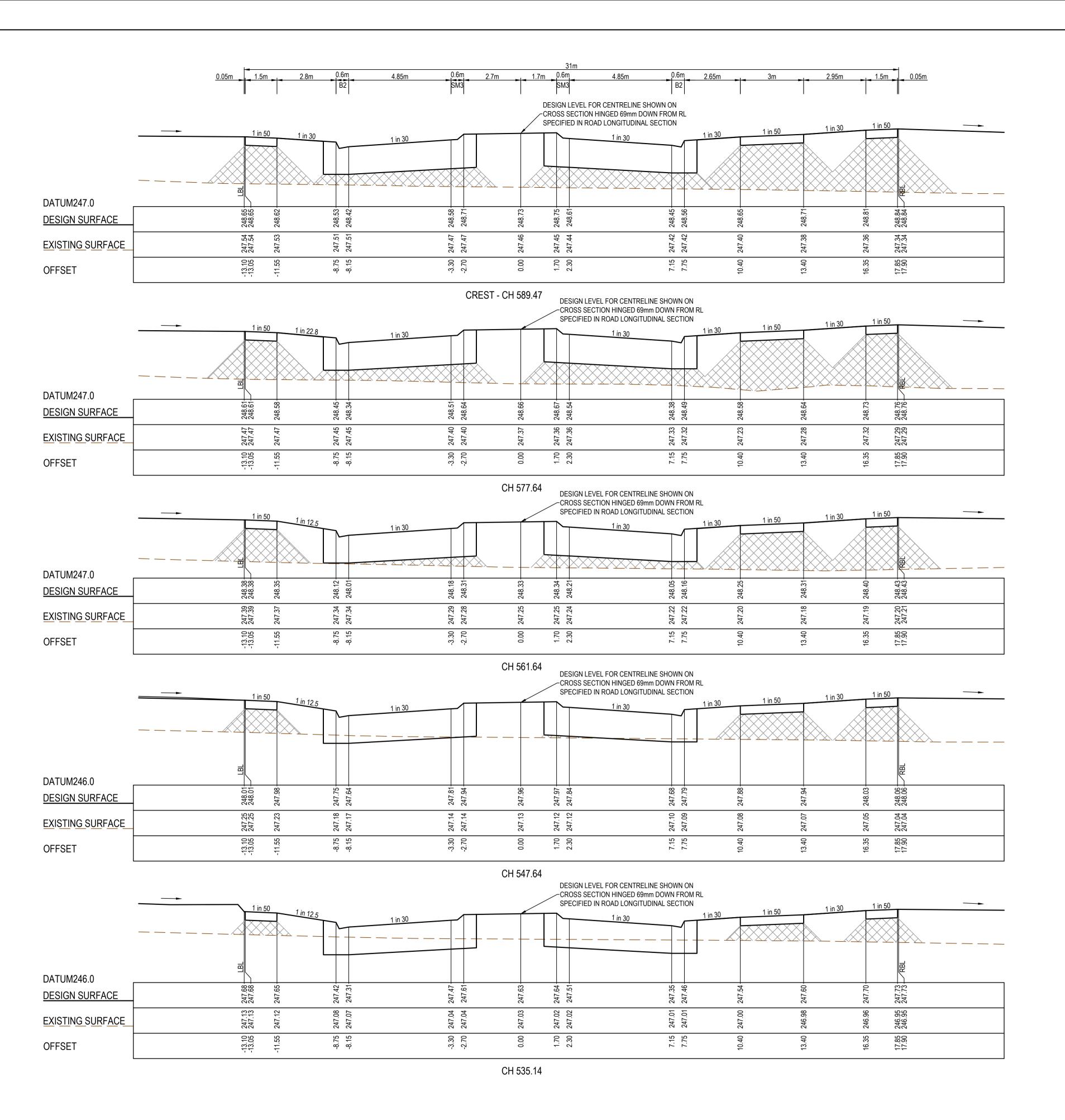
Ph 03 9514 1500

Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 9 Ch 482.89 - Ch 522.64

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

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018_025-262

works west of Cameron Street roundabout only. Balance of works are still under construction.



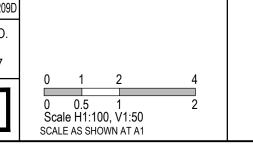
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AS CONSTRUCTED



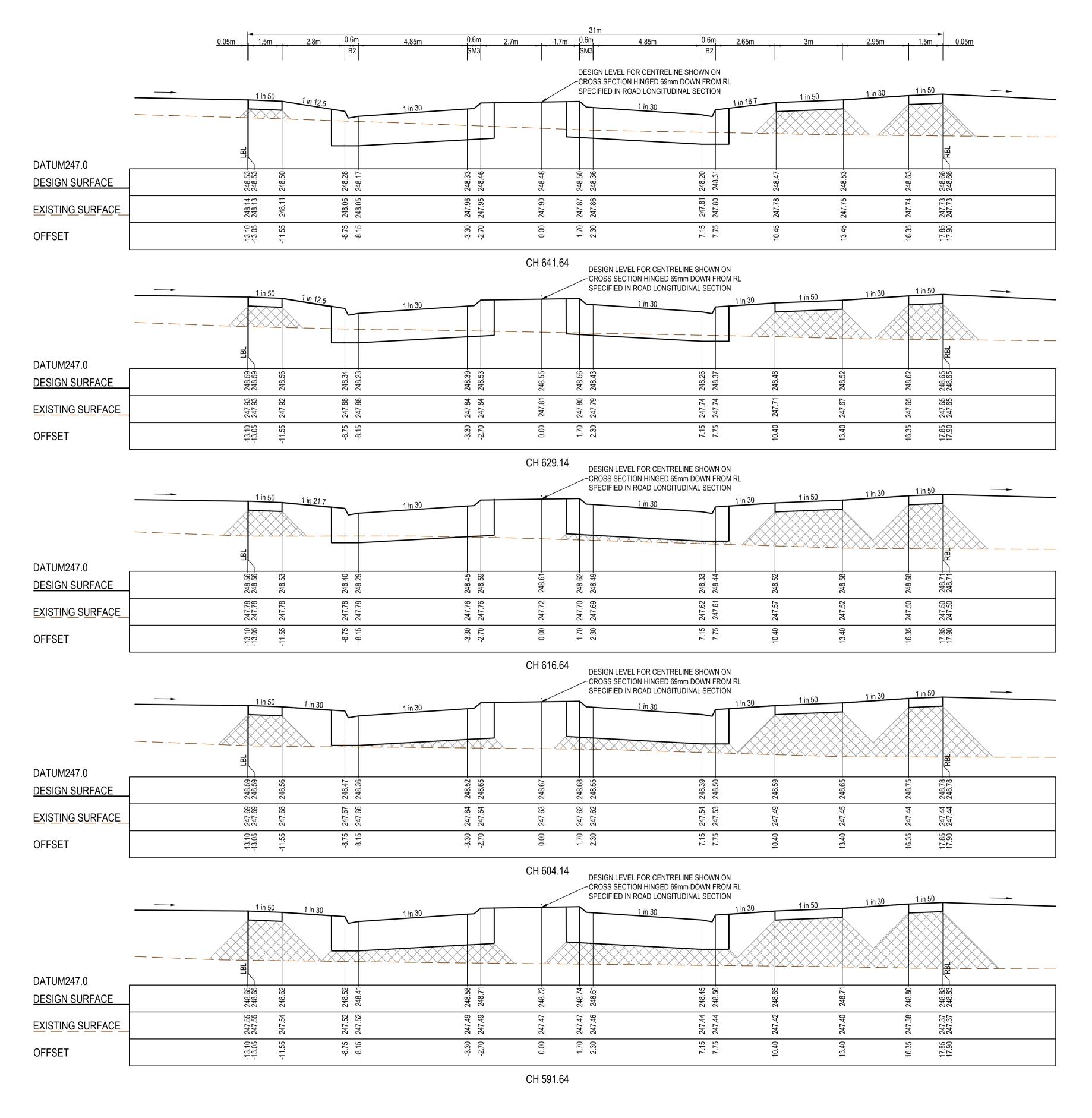






Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 10

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



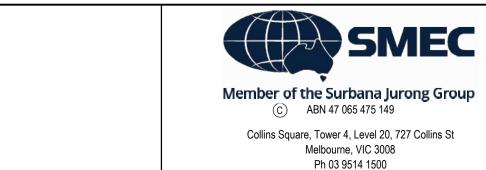
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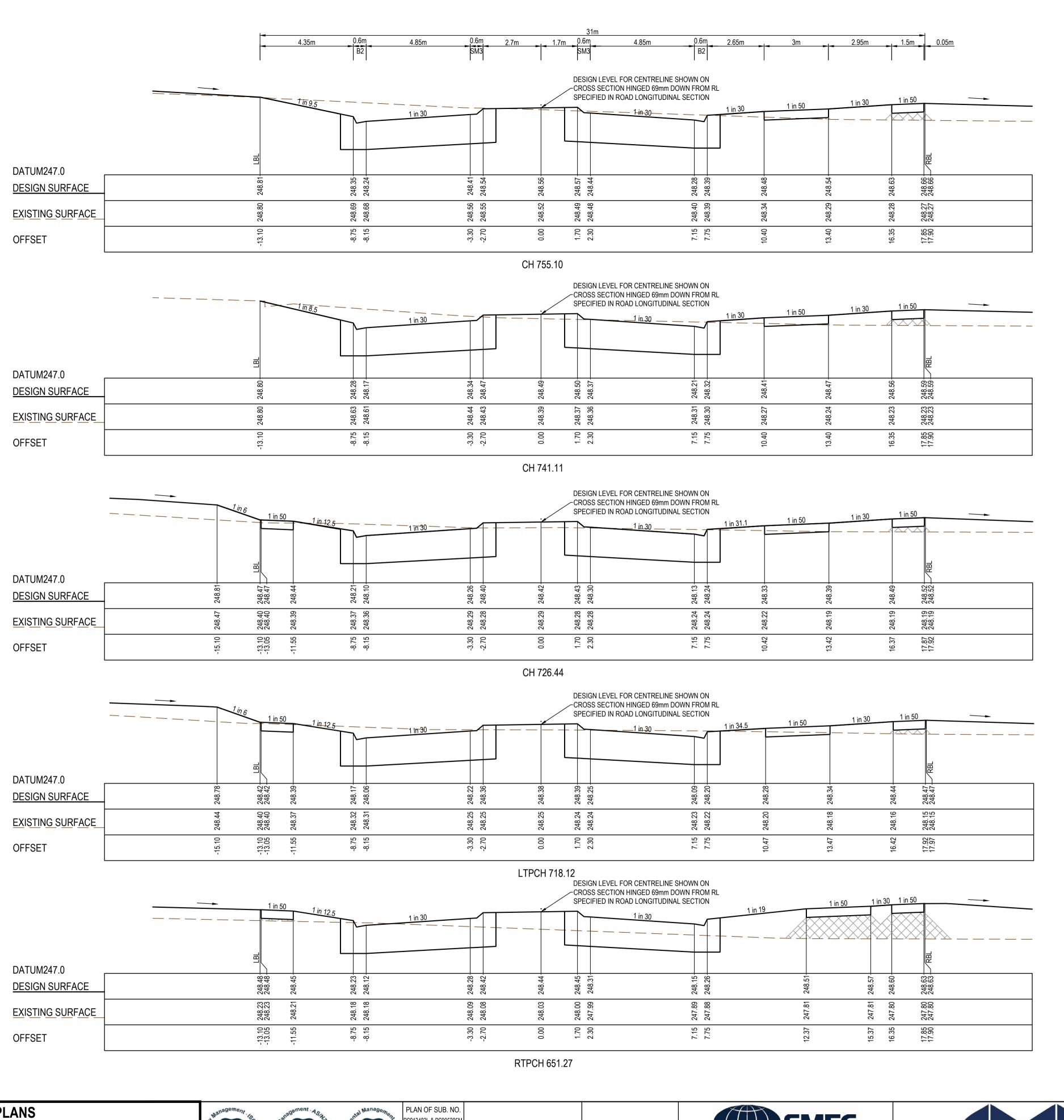






Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage Cross Sections: Cameron Street - 11 Ch 591.64 - Ch 641.64

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-018_025-264



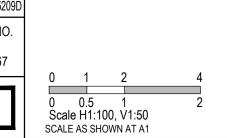
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AS CONSTRUCTED







Ph 03 9514 1500



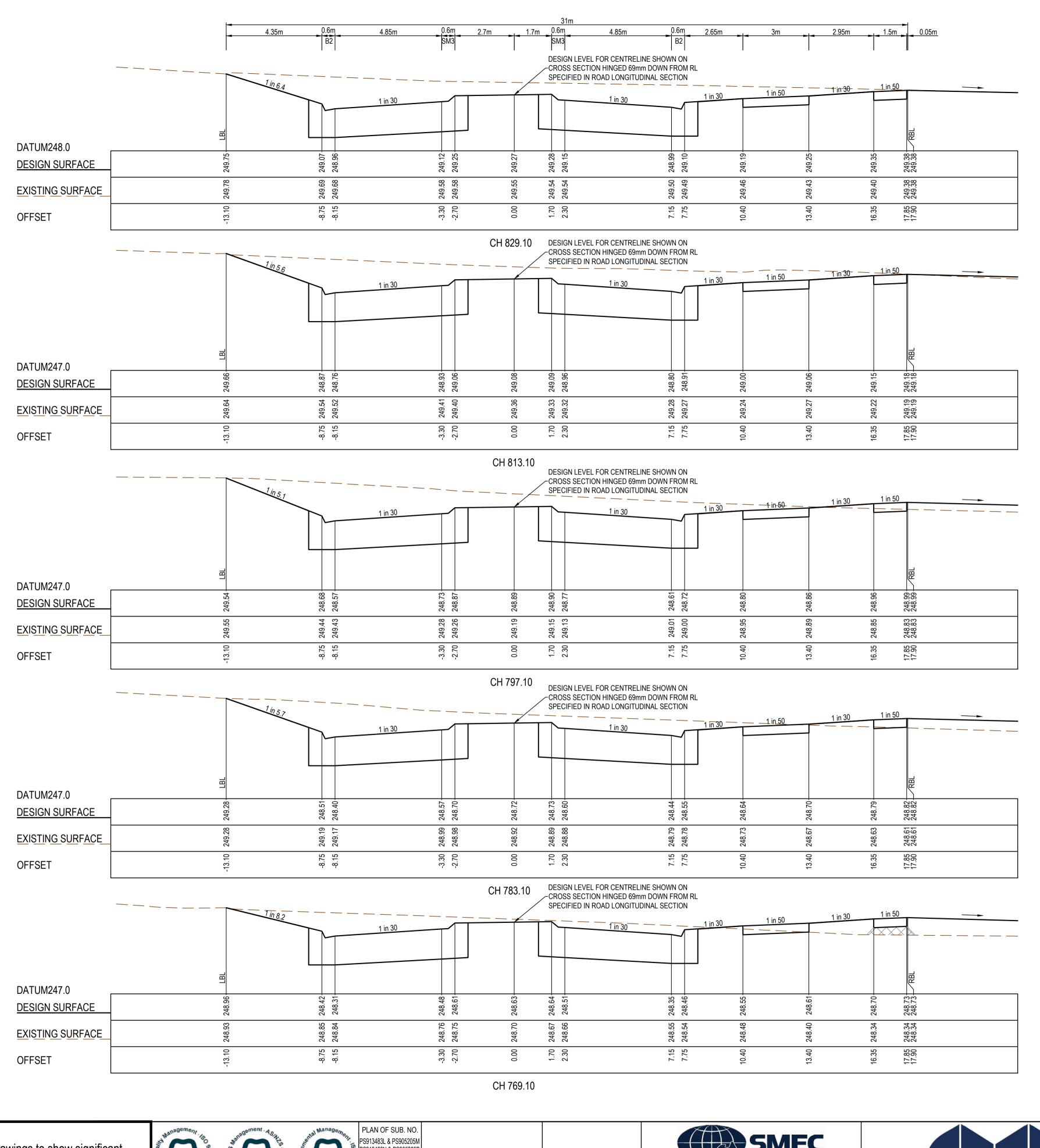
Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 12

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

Ch 651.27 - Ch 755.10

MELWAYS REF 367 G11 1700E-018_025-265

nt Set out should be carried out in accordance with Relevant Authority standard drawings or

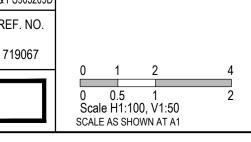


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AS CONSTRUCTED







Ph 03 9514 1500



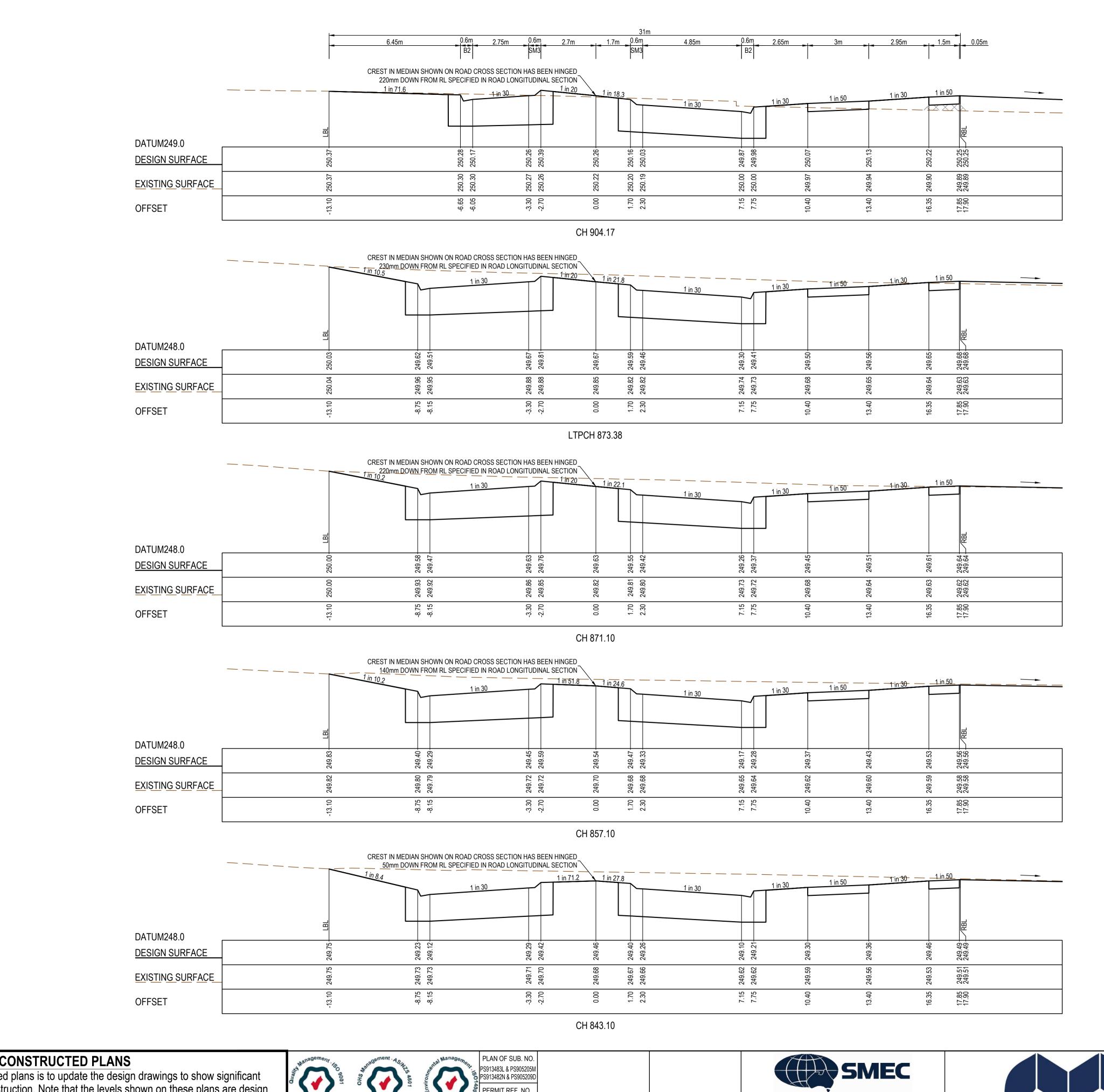
Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 13

TYPE A STRUCTURAL FILL AT A 45° ANGLE OF REPOSE REQUIRED UNDER PAVEMENT

AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

Ch 769.10 - Ch 829.10 MELWAYS REF PROJECT / DRAWING No.

367 G11 1700E-018_025-266 © SMEC 2021. Digital information supplied by this office is for information only, in the event of any discrepancies this should be discussed with the superintendent. Set out should be carried out in accordance with Relevant Authority standard drawings or as nominated by SMEC.



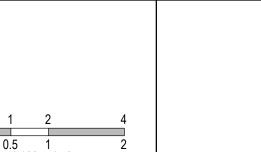
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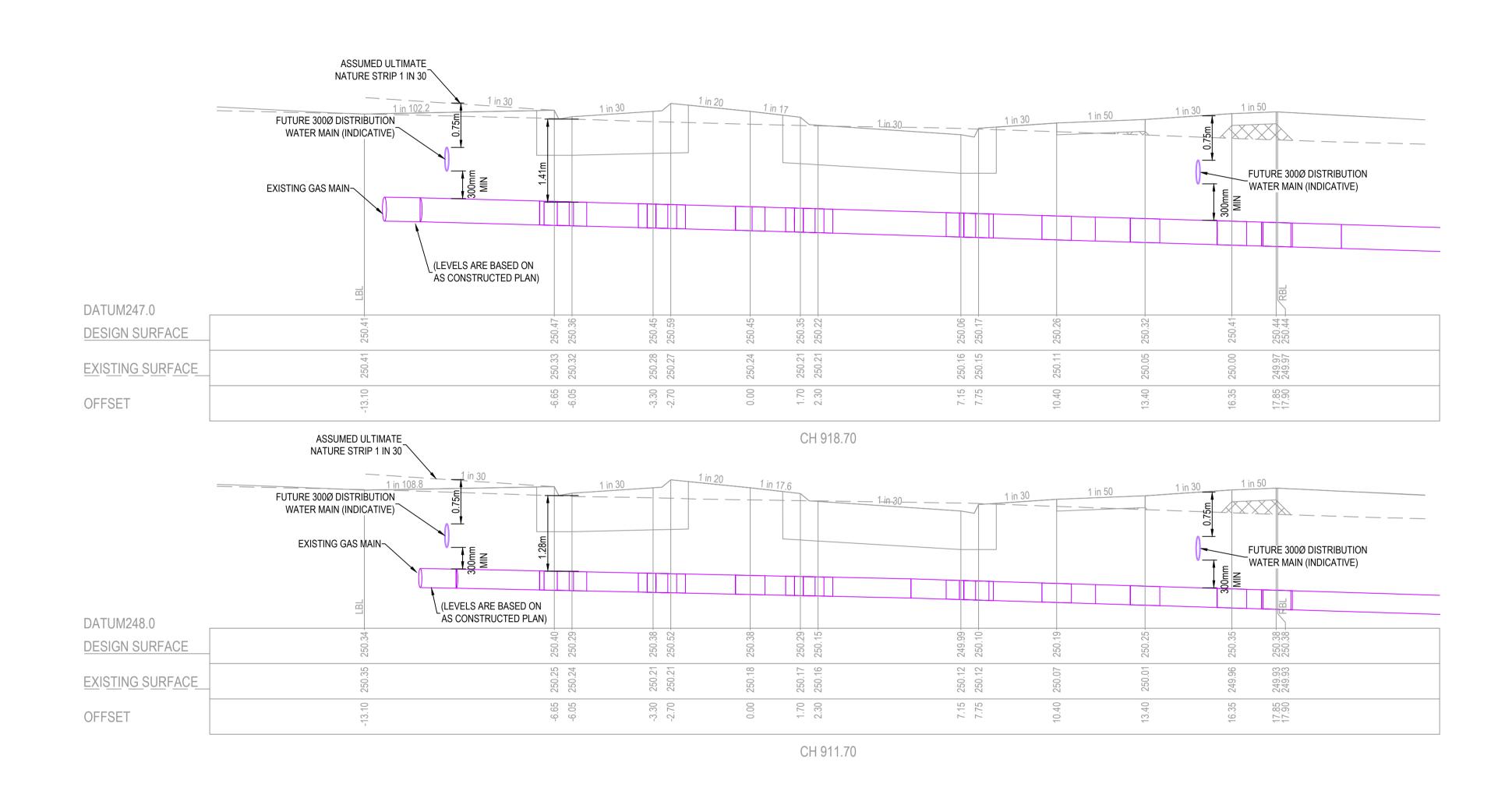
Ph 03 9514 1500



Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage Cross Sections: Cameron Street - 14 Ch 843.10 - Ch 904.17

TYPE A STRUCTURAL FILL AT A 45° ANGLE OF REPOSE REQUIRED UNDER PAVEMENT

AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



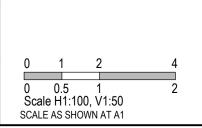
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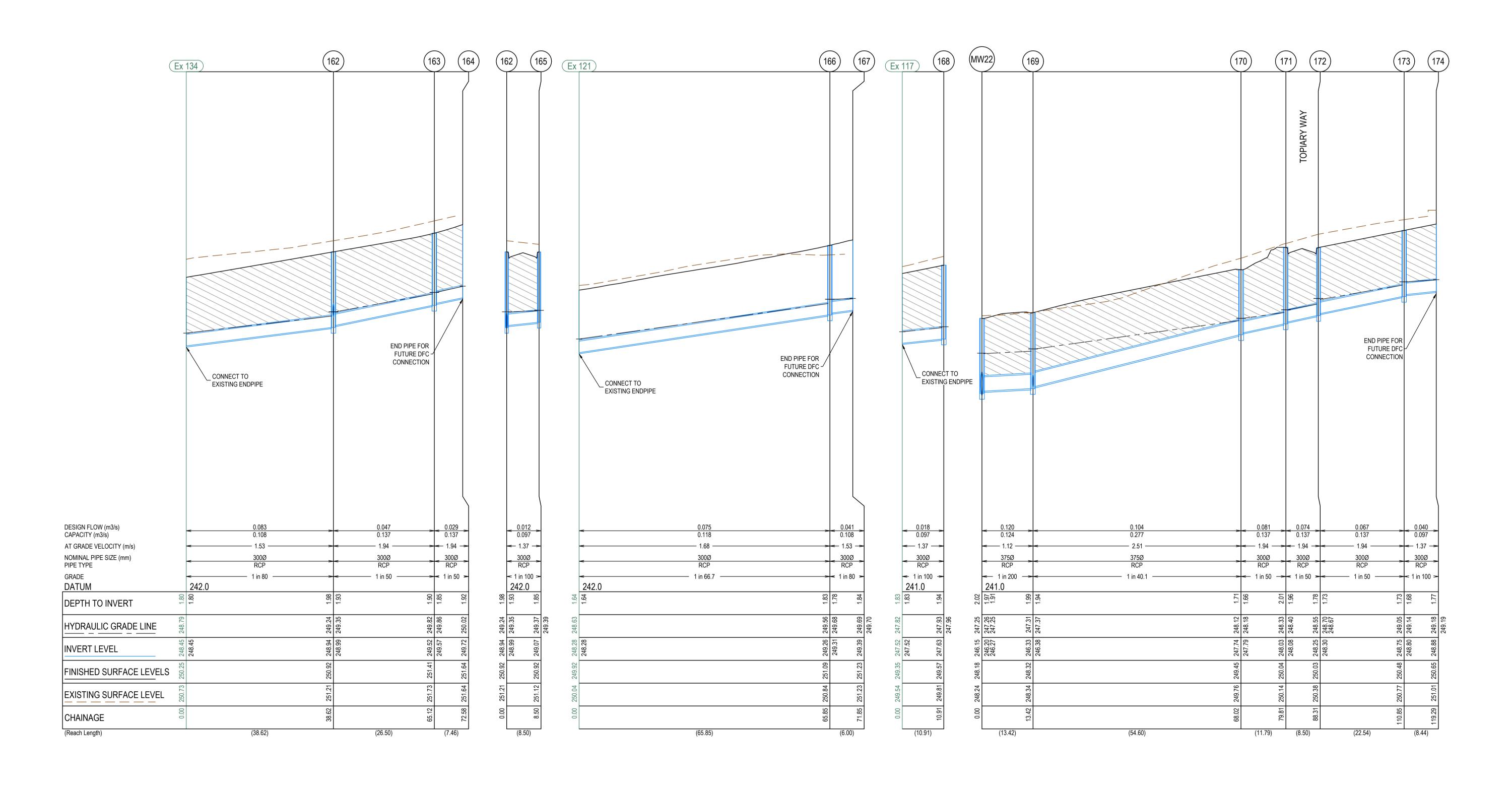






Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Cross Sections: Cameron Street - 15 (Future) Ch 911.70 - Ch 918.70

> PIT 162 TO PIT 191 IN STAGE 18 & 25 PIT 192 TO PIT 200 IN STAGE 18W & 25W



AS CONSTRUCTED PLANS

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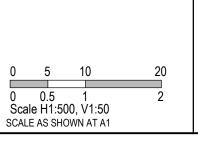




AS CONSTRUCTED





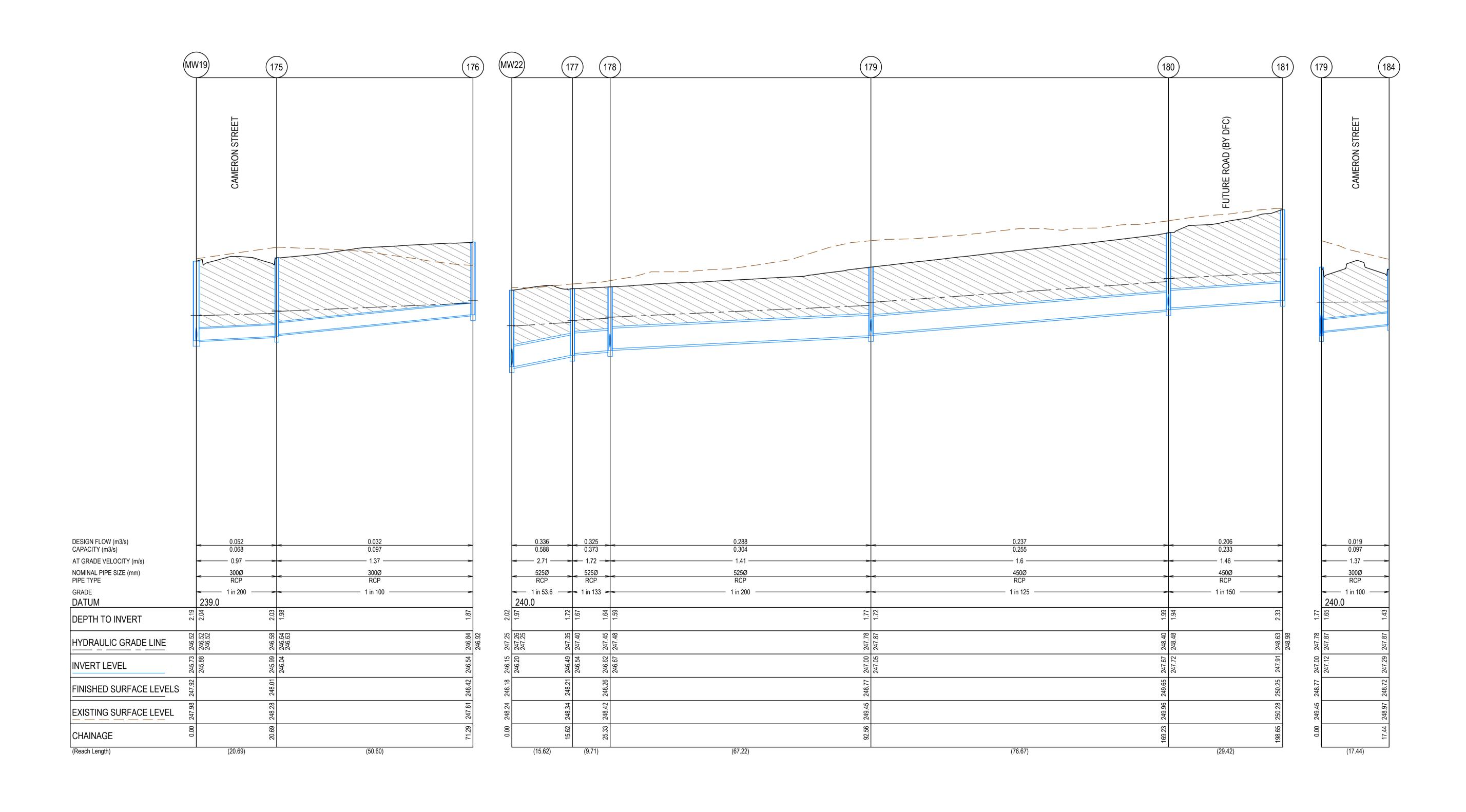






Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 1

> PIT 162 TO PIT 191 IN STAGE 18 & 25 PIT 192 TO PIT 200 IN STAGE 18W & 25W



AS CONSTRUCTED PLANS

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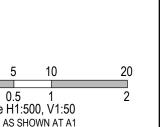




AS CONSTRUCTED



PLAN OF SUB. NO.

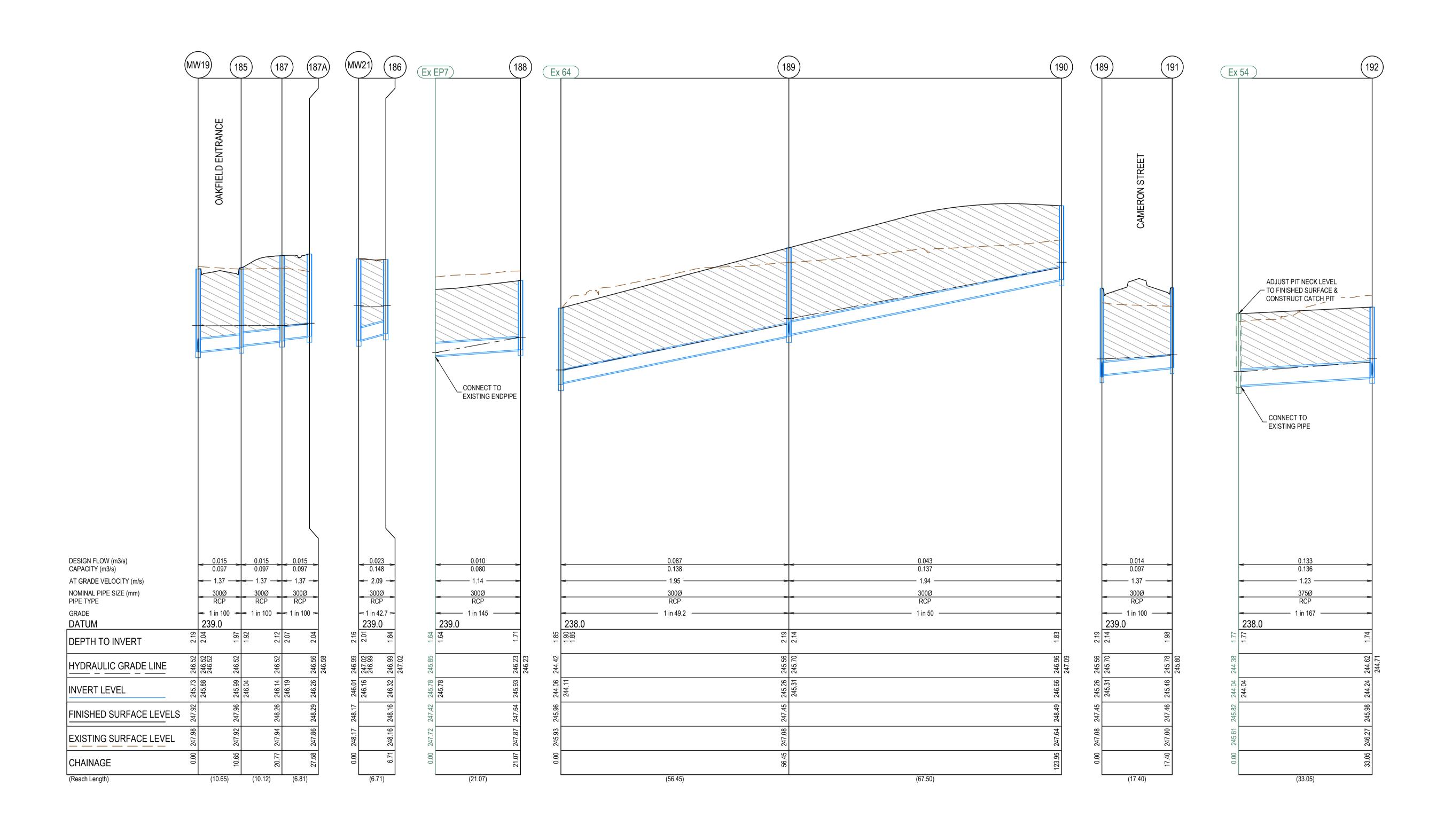






Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 2

> PIT 162 TO PIT 191 IN STAGE 18 & 25 PIT 192 TO PIT 200 IN STAGE 18W & 25W



AS CONSTRUCTED PLANS

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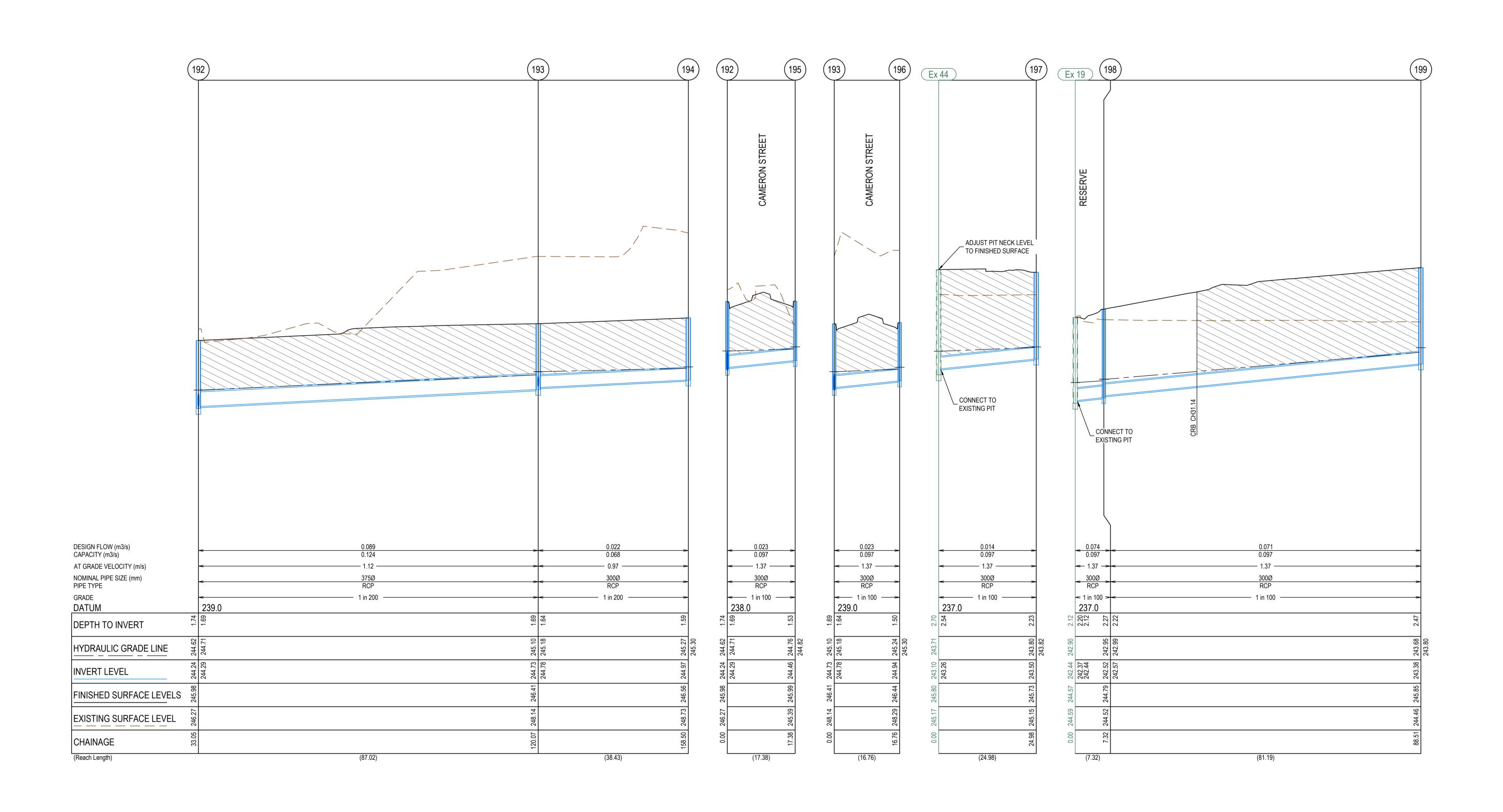
PS913483L & PS905205M PS913482N & PS905209D AS CONSTRUCTED





Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 3

> PIT 162 TO PIT 191 IN STAGE 18 & 25 PIT 192 TO PIT 200 IN STAGE 18W & 25W



AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS913482N & PS905209D AS CONSTRUCTED

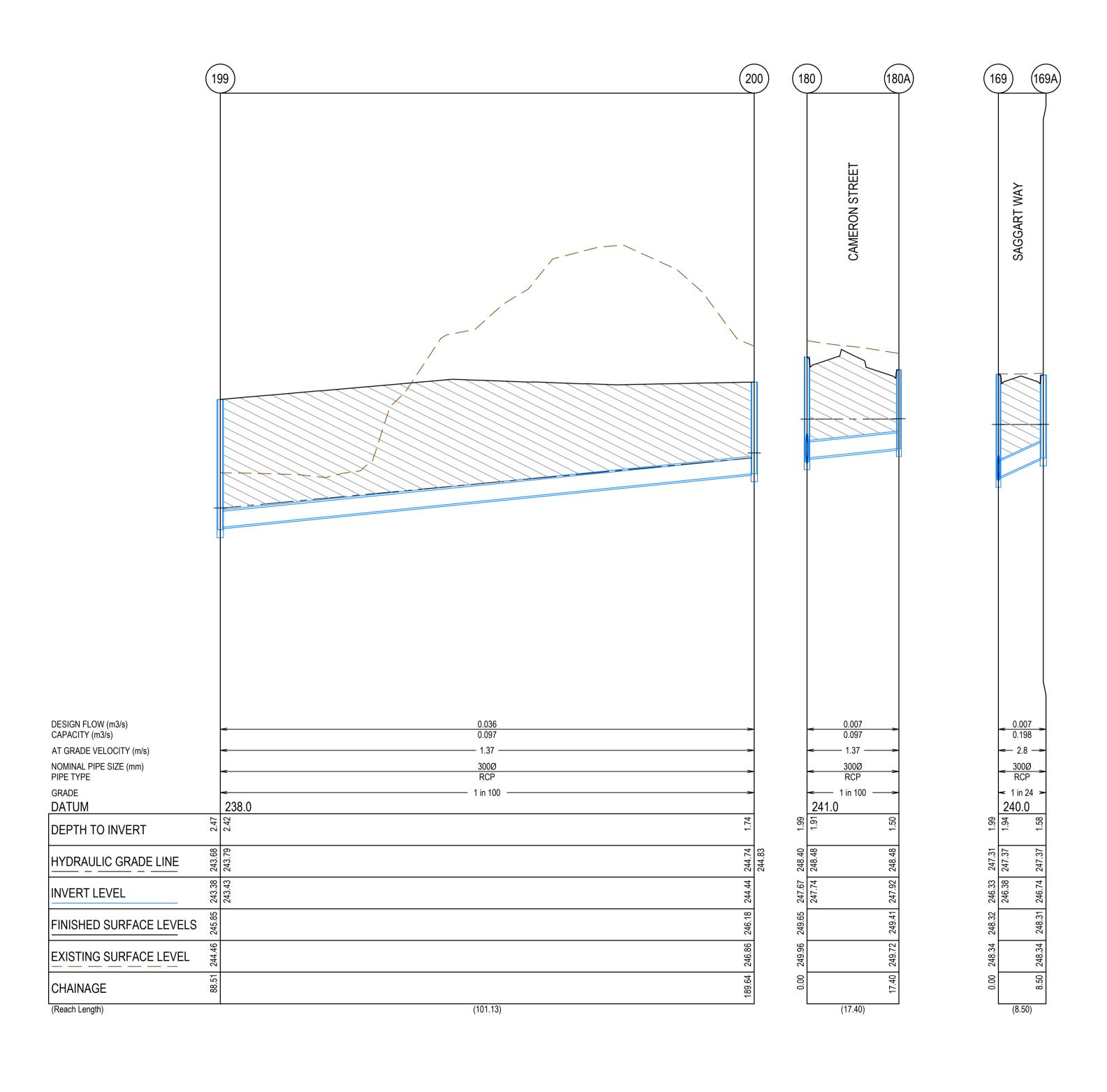


Ph 03 9514 1500



Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 4

> PIT 162 TO PIT 191 IN STAGE 18 & 25 PIT 192 TO PIT 200 IN STAGE 18W & 25W



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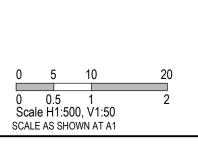




AS CONSTRUCTED



PLAN OF SUB. NO.





Ph 03 9514 1500



Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 5

								T SCHEDULE						
	TVDF	INTERNAL INLET OUTLET				F.S.L.	DEDTU	CTANDADD DDAWING	S REMARKS					
		WIDTH (mm)	VIDTH (mm) LENGTH (mm)		DIAMETER (mm) INV R.L. (m)		DIAMETER (mm) INV R.L. (m)		DEPTH	STANDARD DRAWING				
Ex.134	ENDPIPE			300				250.25	1.8		CONNECT TO ENDPIPE			
162	SIDE ENTRY PIT	600	900	300	248.99	300	248.94	250.92	1.98	EDCM 601 & 605				
				300	248.99									
163	SIDE ENTRY PIT	600	900	300	249.57	300	249.52	251.41	1.9	EDCM 601 & 605				
164	ENDPIPE					300	249.72	251.64	1.92		BLANK OFF ENDPIPE			
165	SIDE ENTRY PIT	600	900			300	249.07	250.92	1.85	EDCM 601 & 605				
Ex.121	ENDPIPE			300				249.92	1.64		CONNECT TO ENDPIPE			
166	JUNCTION PIT	600	900	300	249.32	300	249.27	251.09	1.83	EDCM 605				
167	ENDPIPE					300	249.39	251.23	1.84		BLANK OFF ENDPIPE			
Ex.117	ENDPIPE			300				249.35	1.83		CONNECT TO ENDPIPE			
168	SIDE ENTRY PIT	600	900	300		300	247.63	249.57	1.94	EDCM 601 & 605	OOMNEOT TO ENDIT IT E			
				075	040.07					EDCIVI 00 1 & 003	DEFED TO MAIN DRAWINGS FOR DETAIL			
MW22	DOUBLE SIDE ENTRY PIT	900	900	375	246.27	600	246.15	248.18	2.02		REFER TO MAIN DRAIN DRAWINGS FOR DETAIL			
				525	246.2									
169	SIDE ENTRY PIT	600	900	375	246.38	375	246.33	248.33	1.99	EDCM 601 & 605				
				300	246.38									
170	SIDE ENTRY PIT	750	900	300	247.79	375	247.74	249.45	1.71	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600 x 900 COVER			
171	SIDE ENTRY PIT	750	900	300	248.08	300	248.03	250.04	2.01	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600 x 900 COVER			
172	SIDE ENTRY PIT	600	900	300	248.3	300	248.25	250.03	1.78	EDCM 601 & 605				
173	SIDE ENTRY PIT	600	900	300	248.8	300	248.75	250.48	1.73	EDCM 601 & 605				
174	ENDPIPE					300	248.89	250.65	1.77		BLANK OFF ENDPIPE			
169A	SIDE ENTRY PIT	900	600			300	246.74	248.31	1.58	EDCM 601 & 605				
MW19	DOUBLE SIDE ENTRY PIT	900	1350	300	245.88	600	245.73	247.92	2.19		REFER TO MAIN DRAIN DRAWINGS FOR DETAIL			
		300	1.000	600	245.78			2			2.1.1.5			
				300	245.88		0.45.00	0.40.04						
175	DOUBLE SIDE ENTRY PIT	600	900	300	246.04	300	245.99	248.01	2.03	EDCM 602 & 605				
176	SIDE ENTRY PIT	600	900			300	246.54	248.42	1.87	EDCM 601 & 605				
177	DOUBLE SIDE ENTRY PIT	900	900	525	246.54	525	246.49	248.21	1.72	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600 x 900 COVER			
178	JUNCTION PIT	750	900	525	246.67	525	246.62	248.26	1.64	EDCM 607	PIT TO BE HAUNCHED TO 600 x 900 COVER			
				300	246.73						REMOVED FROM SCOPE			
179	SIDE ENTRY PIT	750	900	450	247.05	525	247	248.77	1.77	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600 x 900 COVER			
				300	247.12									
180	SIDE ENTRY PIT	750	900	450	247.72	450	247.67	249.65	1.99	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600 x 900 COVER			
				300	247.74									
181	DOUBLE SIDE ENTRY PIT	750	900			450	247.91	250.25	2.33	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600 x 900 COVER			
182	JUNCTION PIT	600	900	300	247.57	300	247.52	249.35	1.83	EDCM 605	REMOVED FROM SCOPE			
183	ENDPIPE	000	300	300	241.01	300	247.6	249.36	1.76	EDOW 003	BLANK OFF ENDPIPE. REMOVED FROM SCOPE			
		000	000							EDOM 004 9 005	BLANK OFF ENDFIFE: REMOVED FROM SCOPE			
184	SIDE ENTRY PIT	600	900			300	247.29	248.72	1.43	EDCM 601 & 605				
180A	SIDE ENTRY PIT	600	900			300	247.92	249.41	1.5	EDCM 601 & 605				
185	DOUBLE SIDE ENTRY PIT	600	900	300	246.04	300	245.99	247.96	1.97	EDCM 602 & 605				
187	JUNCTION PIT	600	900	300	246.19	300	246.14	248.26	2.12	EDCM 605				
187A	SIDE ENTRY PIT	600	900			300	246.26	248.3	2.04	EDCM 601 & 605				
MW21	SIDE ENTRY PIT	900	900	300	246.16	600	246.01	248.17	2.16		REFER TO MAIN DRAWINGS FOR DETAIL			
				600	246.06									
186	DOUBLE SIDE ENTRY PIT	600	900			300	246.32	248.16	1.84	EDCM 602 & 605				
EP7	ENDPIPE			300	245.78			247.42			CONNECT TO STAGE 15 END PIPE			
188	SIDE ENTRY PIT	600	900			300	245.93	247.64	1.71	EDCM 601 & 605				
Ex.64	SIDE ENTRY PIT	600	900	300	244.11			245.96	1.9					
189	SIDE ENTRY PIT	600	900	300	245.31	300	245.29	247.45	2.19	EDCM 601 & 605				
		2-4	1330	300	245.31		5.25			1 2 3				
190	JUNCTION PIT	600	900	300	210.01	300	246.66	248.49	1.83	EDCM 605				
191	SIDE ENTRY PIT	600	900		040.00	300	245.48	247.46	1.98	EDCM 601 & 605	CONNECT TO EVICTING DIT CONCEDUCT OF THE 12 WAT VEGA THE TO THE TOTAL THE TAXABLE PARTY.			
Ex.54	JUNCTION PIT	600	900	375	243.99	_		245.82	1.83		CONNECT TO EXISTING PIT, CONSTRUCT CATCH PIT, ADJUST NECK LEVEL TO FINISHED SURFACE			
192	SIDE ENTRY PIT	600	900	375	244.29	375	244.24	245.98	1.74	EDCM 601 & 605				
				300	244.29									
193	SIDE ENTRY PIT	600	900	300	244.78	375	244.73	246.41	1.69	EDCM 601 & 605				
				300	244.78									
194	SIDE ENTRY PIT	600	900			300	244.97	246.56	1.59	EDCM 601 & 605				
195	SIDE ENTRY PIT	600	900			300	244.46	245.99	1.53	EDCM 601 & 605				
196	SIDE ENTRY PIT	600	900			300	244.94	246.44	1.5	EDCM 601 & 605				
Ex.44	JUNCTION PIT	600	900	300	243.1			245.8	2.7		CONNECT TO EXISTING PIT, ADJUST NECK LEVEL TO FINISHED SURFACE			
197	DOUBLE SIDE ENTRY PIT	600	900	300		300	243.5	245.73	2.23	EDCM 602 & 605	,			
Ex.19	JUNCTION PIT	900	900	300	242.44	300	270.0	245.73	2.23	_DOM 002 & 000	BREAK INTO EXISTING PIT WESTERN WALL AT IL242.44			
						200	040.50			EDOL: 00-	DREAR INTO EXISTING PIT WESTERN WALL AT ILZ4Z.44			
198	JUNCTION PIT	600	900	300	242.57	300	242.52	244.79	2.27	EDCM 605				
199	JUNCTION PIT	600	900	300	243.43	300	243.38	245.85	2.47	EDCM 605				
200	JUNCTION PIT	600	900			300	244.44	246.18	1.74	EDCM 605				
Ex.45	DOUBLE SIDE ENTRY PIT	600	900	600	243.51	600	243.1	245.64	2.13	EDCM 602 & 605	CONSTRUCT DOUBLE CATCH PITS, ADJUST NECK LEVEL TO FINISHED SURFACE			

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AS CONSTRUCTED



PLAN OF SUB. NO.

SCALE AS SHOWN AT A1

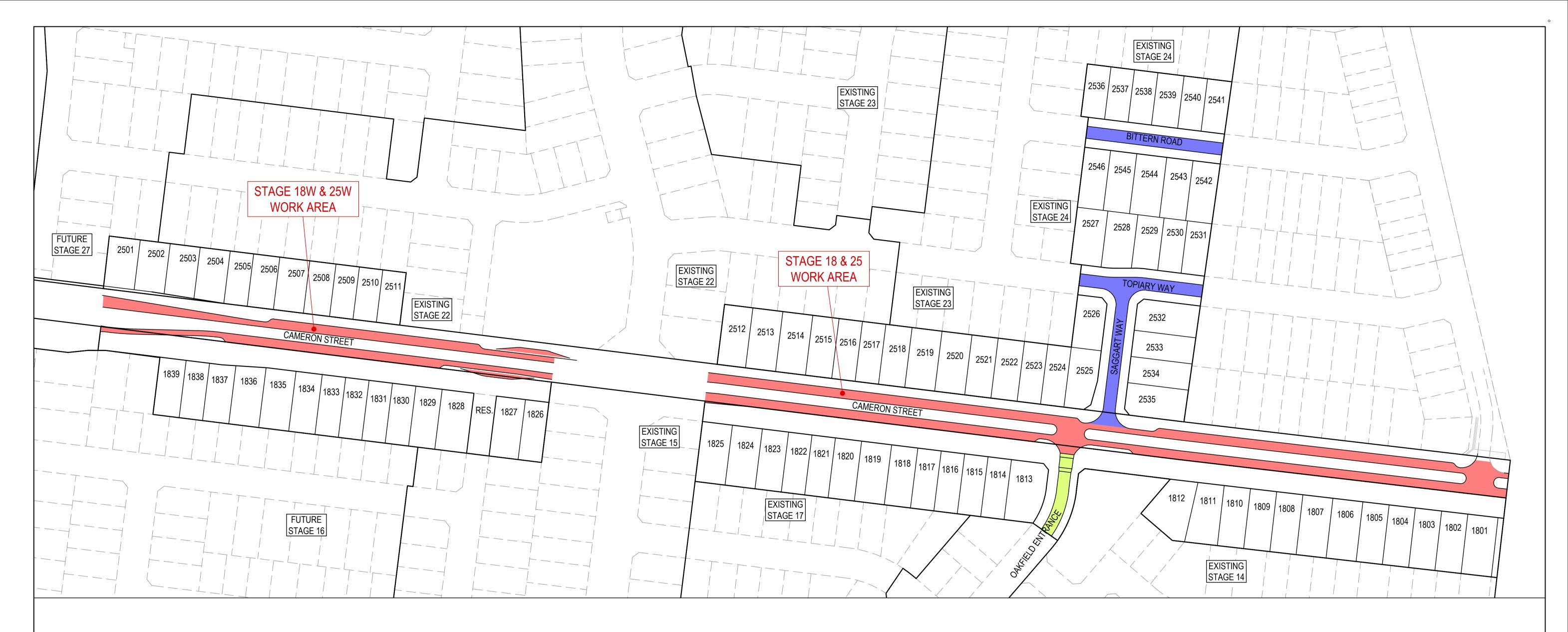


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Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage
Pit Schedules

PIT 162 TO PIT 191 IN STAGE 18 & 25 PIT 192 TO PIT 200 IN STAGE 18W & 25W



CAMERON STREET PAVEMENT COMPOSITION								
655mm DEPTH PA	AVEMENT COMPOSITION	LAYER						
PAVEMENT LAYER		THICKNESS (mm)	MATERIAL					
	WEARING COURSE	40	SIZE 14mm TYPE H (CLASS 320 BINDER) ASPHALT					
ACDUALT	INTERMEDIATE COURSE	75	SIZE 20mm TYPE SI (CLASS 320 BINDER) ASPHALT					
ASPHALT	BASE COURSE	75	SIZE 20mm TYPE SI (CLASS 320 BINDER) ASPHALT					
	BITUMINOUS PRIME	-	PRIME OR PRIMESEAL					
BASE COURSE	BASE	130	20mm NOMINAL SIZE CLASS 3 CEMENT TREATED CRUSHED ROCK, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500MPa					
SUBBASE COURSE	UPPER SUBBASE	150	CLASS 4 CRUSHED ROCK OR CLASS CC4 CRUSHED CONCRETE (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 95% (MODIFIED) AS1289,5.2.1					
CAPPING	CAPPING LAYER	200 IMPORTED TYPE A FILL WITH CBR ≥ 8%, SWELL ≤ 1.5% AND PERMEABILITLY ≥ 5 x 10 ⁻⁹ m/sec OR LIME STABILISED SITE CLAY WHICH CONFORMS TO THE PARAMETERS ABOVE						
SUBGRADE		-	CBR VARIES BETWEEN 1.0% AND 3.0%. SUBGRADE DESIGN CBR = 2% EXPANSIVE					

SAGGART W	AY, TOPIARY WAY	& BITTERN RO	DAD PAVEMENT COMPOSITION					
780mm DEPTH PAVEMENT COMPOSITION		LAYER						
PAVE	EMENT LAYER	THICKNESS (mm)	MATERIAL					
	WEARING COURSE	30	SIZE 10mm TYPE L (CLASS 320 BINDER) ASPHALT					
A ODLIAL T	BASE COURSE	30	SIZE 10mm TYPE N (CLASS 320 BINDER) ASPHALT					
ASPHALT	BITUMINOUS PRIME	6.7	SAMI 10 S18RF					
	PRIME	YES						
BASE COURSE	BASE	130 20mm CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% OF MDD (MODIFIED PROCTOR)						
SUBBASE COURSE	UPPER SUBBASE	110	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	180	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					

780mm DEPTH PA	VEMENT COMPOSITION	LAYER						
PAVE	EMENT 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 (MODIFIEI 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 (MODIFIE 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					

Melbourne, VIC 3008

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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

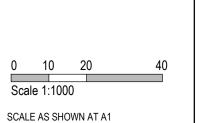
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PLAN OF SUB. NO. PS913483L & PS905205M PS913482N & PS905209D

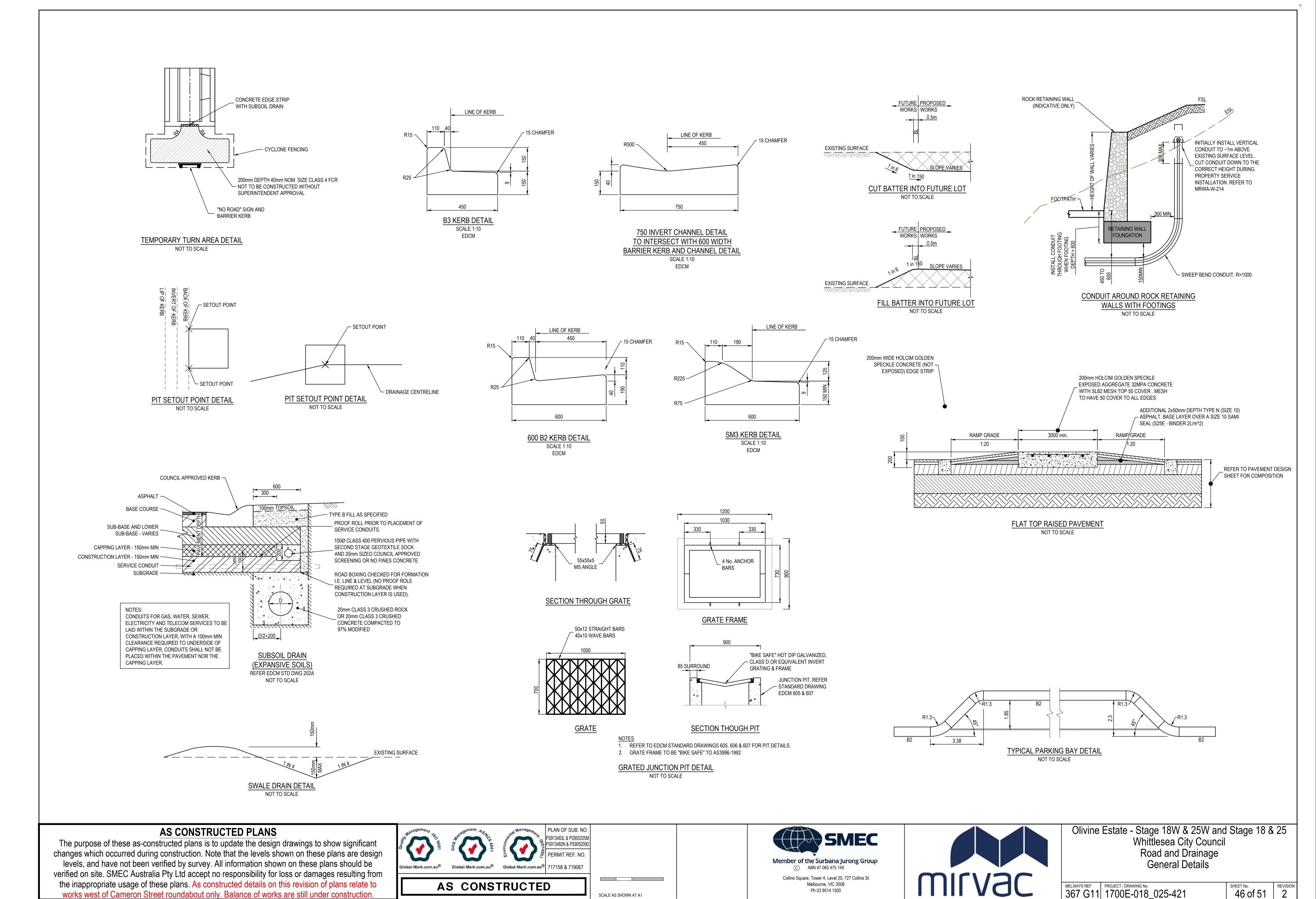






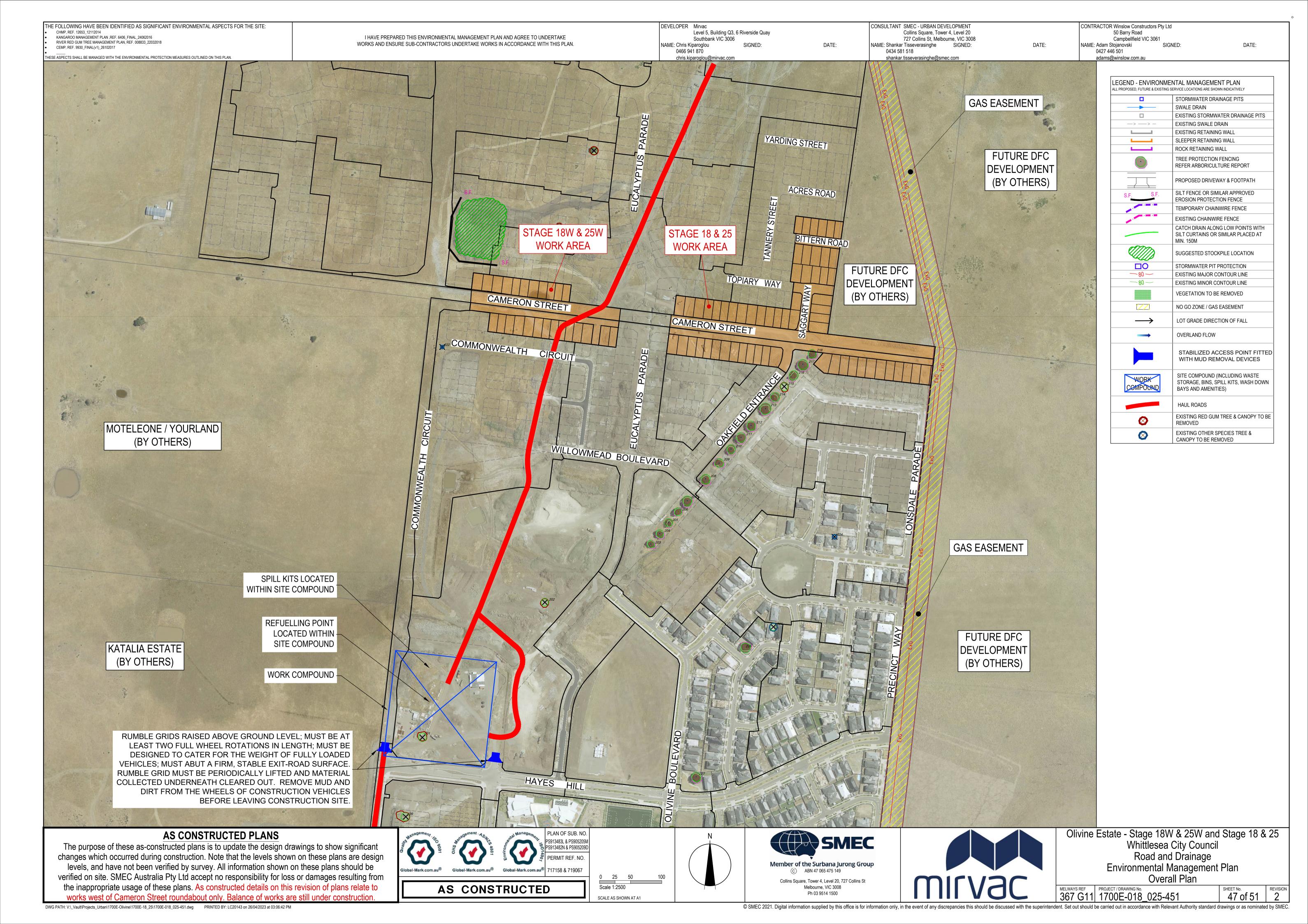


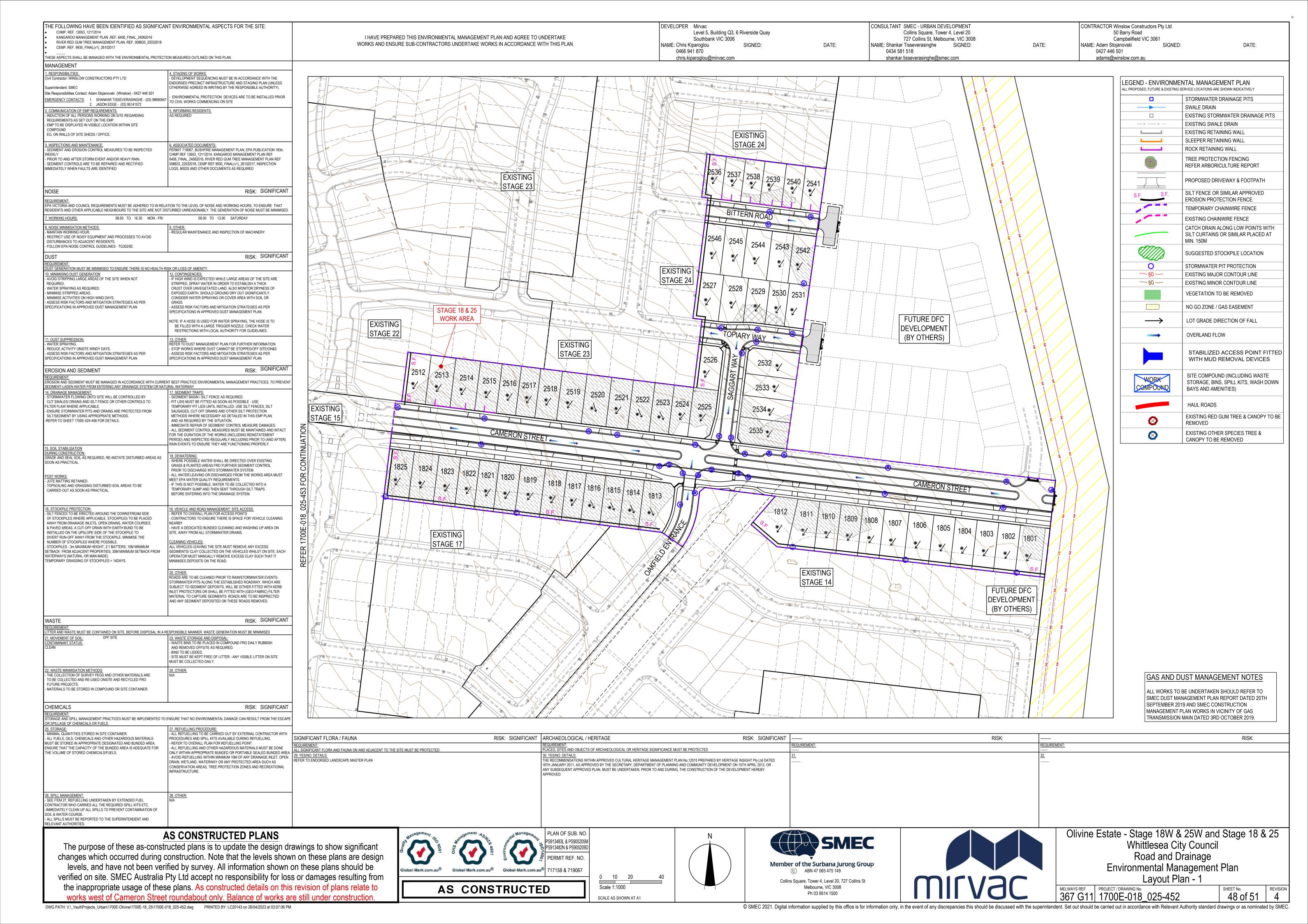
Olivine Estate - Stage 18W & 25W and Stage 18 & 25
Whittlesea City Council
Road and Drainage Pavement Details

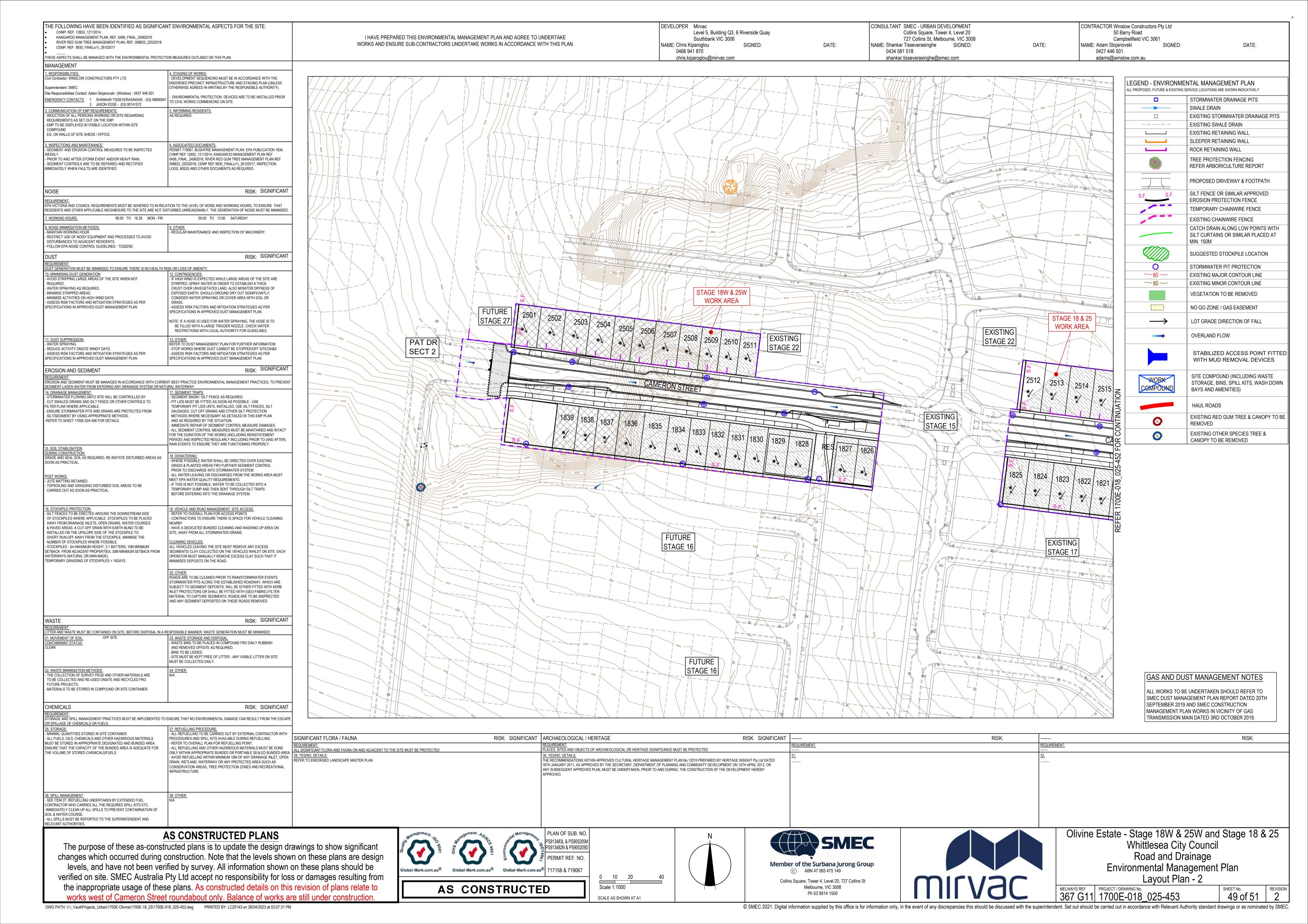


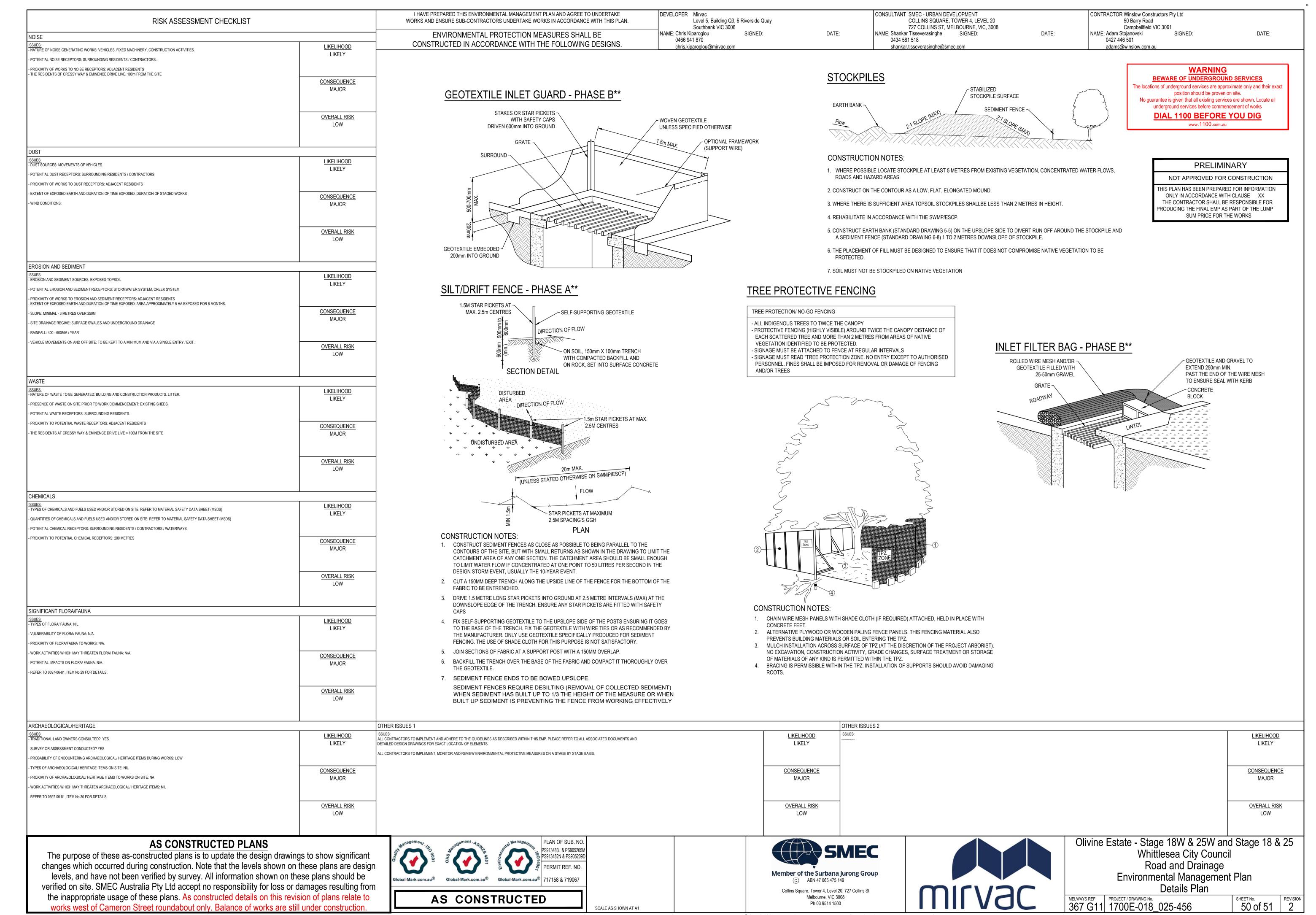
DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-18_25\1700E-018_025-421.dwg PRINTED BY: LC20143 on 26/04/2023 at 03:06:15 PM

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										RESIDUAL	DE0151111 5151		
DILAGE DIGGIDI INE COS			PO ⁻	TENTIAL RISK		POTENTIAL	POTENTIAL ELIMINATION MEASURE, DESIGN	HOW ISSUE ADDRESED IN DESIGN AND/OR	IS THE RISK	RISK	RESIDUAL RISK		RESIDUAL
<u>PHASE</u>	DIS	CIPLINE CODE		Operations, Maintenance)	RISK OWNER	CONSEQUENCES	INITIATIVE or CONTROL	CONSTRUCTION OF THE WORKS	ELIMINATED?	LIKELIHOOD	CONSEQUENCE	RISK	RISK OWNER
			(**************************************	,,		<u> </u>	(Identify any Standard or Code of practice used)		YES / NO	(0-5)	(0-5)	<u>RATING</u>	
Road Furniture / Ro	oadside I	Features											
Construction	RD	Roads	Construction close to live traffic	New works will be constructed adjacent to live traffic when abutting existing stages.	Contractor	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15	Constructor
Construction	RD	Roads	Culverts	Potential risk from culverts under construction and height / fall hazards	Contractor	Falling from a height	Temporary barriers to be provided	Temporary barrier provided in contract	N	2	5	10	Constructor
Construction	US	Utilities or Services	Utilities become a hazard within clear zones	Vehicle conflict with utility / pit	Contractor	Personal injury, vehicle damage	Sequence works and protect with temp barrier or traffic control (TCP)	TCP provided within contract	N	1	5	5	Constructor
Operational	RD	Roads	Sight Lines	Inadequate drivers response time.	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Vis lines checked and discussed with approval authority as part of design approval process	N	1	4	4	Road Authority
Operational	LS	Lines and Signs	Signs and street lights	Potential for drivers / riders to strike signs and street lights	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Refer to appropriate standard for sign and lighting offsets	N	1	4	4	Road Authority
Operational	RF	Road Furniture	Headwalls	Potential vehicle conflict within clear zone	Road Authority	Increased potential for accidents	Establish adequate clear zone provision	Adequate barrier provided as per appropriate standard where within clear zone. Culvert headwall selection in accordance with authority standard	N	2	4	8	Road Authority
Operational	RD	Roads	Culverts	Potential fall hazard during maintenance, by vechicles and pedestrians	Relevant Authority	Falling from a height	Barriers to be provided in accordance with road standards	Barriers to be provided and safe batter slopes (>1:3)	N	2	5	10	Constructor
Retaining Walls													
Construction	RW	Retaining Walls	Retaining Wall Alignment	Falling from height during construction or commissioning of walls and adjacent structures eg. sewer manholes	Contractor	Falling from a height	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	1	1	Constructor
Operational	RW	Retaining Walls	Retaining Wall Alignment	Lack of safe access/setback from road	Road/ Local Authority	Increased potential for accidents	Establish adequate and accessible clear zone provision. Provide guardrail where required	Wall located in suitable position during design process and approved by authority	N	1	1	1	Authority
Operational	RW	Retaining Walls	Retaining Wall Height	Potential for falling from height	Road/ Local Authority	Personal injury	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	5	5	Authority
Operational	RW	Retaining Walls	Retaining Wall Design	Potential for wall failure	Road/ Local Authority	Increased potential for accidents	Structural design in accordance with standards, geotechnical conditions, end use and good practise.	Refer to structural drawings and calculations	N	1	5	5	Authority
Drainage													
Operational	DR	Drainage	Grated Pits	Trip/fall hazard with large spaced grate	Relevant Authority	Increased potential for accidents	Provide pedestrian/bicycle friendly grates where applicable. Refer to pit schedule	Design in accordance with authority and manufacturers standards	N	3	2	6	Authority
Operational	DR	Drainage	Non Standard Large Pits	Potential for pit failure	Relevant Authority	Increased risk to maintenance crews/ vehicles	Structural design in accordance with relevant design principles.	Refer to structural drawings and calculations	N	1	4	4	Authority
Operational	DR	Drainage	Culvert Endwalls/Headwalls	Potential for falling from height	Relevant Authority	Increased potential for accidents	Fencing to be provided where culverts/headwalls are at height in accordance with relevant authority standards	Allow for fencing in Design Process	N	1	4	4	Authority
Operational	DR	Drainage	Culvert Endwall/Headwall Outlets	Children playing in large pipes / watercourses and access for maintenance	Relevant Authority	Increased potential for accidents	Grate provided to authority standards	Design in accordance with authority and manufacturers standards	N	2	5	10	Authority
Maintenance	DR	Drainage	Access to Pits	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Provide safe landing/ access arrangements as per relevant authority standards	Where possible design pit in location for easy access and outside of permanent water bodies	N	2	5	10	Authority
Maintenance	DR	Drainage	Deep Pits	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, step irons to be provided to appropriate authority standards. Refer to pit schedule	Design in accordance with authority standards	N	1	5	5	Authority
Maintenance	DR	Drainage	Access to drains / culverts	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Access as approved by authority	Design pit in location for easy access as agreed with authority	N	2	3	6	
Sewer						,							
Construction	SE	Sewer	Sewer Manhole located adjacent to Retaining Wall Alignment	Falling from height during construction or commissioning of adjacent sewer manholes	Contractor	Falling from a height	Provide temporary fencing until such time that permanent fencing is constructed	Provide fencing (at heights) during design process	N	1	1	1	Constructor
Maintenance	SE	Sewer	Deep Manholes	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, landings and step access provided as per authority standards and schedule	Design in accordance with authority standards. Refer pit schedule on drawings	N	1	5	5	Authority
Maintenance	SE	Sewer	Access to Manholes	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Manholes located in compliance with authority standards	Where possible design manhole in location for easy access	N	1	5	5	Authority
Maintenance	SE	Sewer	Pump Station Access	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance	Design pump station in location for easy access	N	2	4	8	Authority
Electricity													
Operational	ES	Electrical Services	Electrical Design	Location of assets within clear zones e.g., pits/ substations	Relevant Authority	Increased potential for accidents	Electrical designed by sub consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection	N	2	3	6	Authority
Telstra								provided					
Toloud							T-1	Pits designed below ground. Where above ground adequate offset					
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	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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Safety In Design