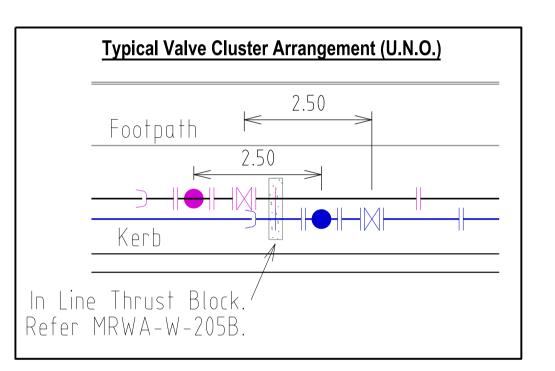


LOCALITY PLAN

MELWAYS: 386 A1

2



YOU DIG

FOR THE DURATION OF PROCLAIMED WATER

RESTRICTIONS, THE CONTRACTOR SHALL CONFORM WITH THE RESTRICTIONS AND ANY OTHER WATER

CONSERVATION REQUIREMENTS IMPOSED BY THE WATER AGENCY.

General Notes:

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- 1. Only products approved and catalogued by the Water Agency shall be used.
- 2. Works must be constructed according to WSA 03- 2011 MRWA edition. The Contractor shall ensure that they are conversant with all current revisions, amendments and updates that the relevant Water Agency has made to their standards.
- 3. DW and NDW assets shall only be constructed after deeper assets affecting the water mains have been constructed (eg: sewerage & drainage assets).
- 4. This design is to be read in conjunction with road and drainage
- 5. The Contractor shall obtain a road opening permit for any works within the road reserve and comply with all requirements of the road owner.
- 6. For interpretation of the symbols used in this design, refer to drawing MRWA-W-100.

Survey, Set Out and Asset Recording

- 7. Temporary Bench Marks (TBM) for the set out of works to the Australian Height Datum (AHD) are provided in the design drawings.
- 8. All levels are in metres to AHD.
- 9. All co-ordinates are in metres to the Map Grid of Australia (MGA 55- 94) unless noted otherwise.
- 10. The Contractor is directly responsible for ensuring the project set out is consistent with the design. Should actual site conditions conflict in any way with that documented, the Contractor shall contact the Superintendent for clarification before proceeding.
- 11. The Contractor is to engage a suitably qualified and experienced Surveyor to undertake asset recording of the work. All surveyor works and data recording shall be undertaken in accordance with the MRWA survey manual.
- 12. All specific pipe materials (eg: PVC-O) shall be indicated in the As Constructed information

Products and Materials

- 13. DW and NDW system components shall be differentiated as per section 4.2 of WSA03-2011 MRWA edition.
- 14. For the Pipe Schedule, refer to TABLE .1.
- 15. For the Pipe Material Schedule, refer to TABLE, 2.

Appurtenances (Fittings)

- 17. All valves and hydrants shall be marked according to drawings MRWA-W-300 and MRWA-W-301.
- 18. Valve surrounds, covers and spindles shall be constructed in accordance with drawing MRWA-W-302.
- 19. Hydrant surface arrangements shall be constructed in accordance with drawings MRWA-W-303.
- 20. Flange and flange bolts shall be constructed in accordance with drawings MRWA-W-306A and MRWA-W-306B.
- 21. For the Hydrant and Washout Schedule, refer to TABLE .3.
- 22. All valves shall be located directly out from the apex of the splay corner (unless otherwise indicated).

Water Main Alignment, Trenching & Cover

- 23. Trench, pipe placement, embedment and backfill dimensions as per standard drawing MRWA-W-202.
- 24. Water and Gas to be in shared trench.
- 24. Water and Gas to be in snared trench.

 25. Offsets of mains from property boundaries shall be; min
 600mm (mains < DN100) and min 1m (mains >=DN100).

26. All water mains shall pass over drains and sewers unless shown otherwise in the design drawings.

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28. Mains shall be aligned in accordance with the Services Alignment Schedule (Refer to TABLE .5).

Embedment

- 28. For trafficable and non-trafficable embedment refer MRWA-W-201.
- 30. Embedment shall be placed as per drawings MRWA-W-201 and MRWA-W-202.

Backfill

- 30. For trafficable and non-trafficable backfill refer MRWA-W-201. Any other backfill material to be approved by road authority.
- 32. Compaction trials and compaction testing shall be undertaken in accordance with the MRWA Backfill Specifications.

Thrust Restraint

- 33. For the Thrust Restraint Schedule, refer to TABLE .6.
- 34. Construct concrete thrust restraints as per drawings MRWA-W- 204, 205A and 205B.
- 35. Timber / Recycled plastic blocks as per drawings MRWA-W-204 and MRWA-W-206.
- 36. Thrust restraints have been designed on the basis of the AHBP (ground strength) nominated in TABLE 6. The Contractor shall confirm the actual ground conditions (using standard drawing MRWA-W-200 as a guide) and discuss with the Superintendent any ground conditions which are found to be different to that nominated.

Property Services

- 37. Property Services to the end of service shall be constructed as per drawings MRWA-W-110 and MRWA-W-111.
- 38. NDW property services shall always be located on the left of the DW property service as you look from the road to the front of the property.

Connections (All types)

- 39. Connection of >= DN100 offtakes to existing mains shall be as indicated in the design drawings and as per drawing MRWA-W-106.
- 40. Connection of DN40, 50 & 63 PE offtakes shall be as per drawing MRWA-W-107.
- 41. Property Service Connections as per drawing MRWA-W-111.
- 42. All property service connections to new residential non PE reticulation mains are to be completed using pretapped connectors.

Other Services

43. To receive the most up to date information prior to construction, "Dial before you Dig" shall be undertaken to aid in the location of other services. Other services shall be carefully located prior to full excavation at the contractor's cost. Any clashes of proposed new works with other assets shall be reported to the Superintendent immediately for clarification.

44. Offsets to other services shall be as per TABLE 5 or otherwise as per table 5.5 of WSA03-2011 MRWA edition. These clearances shall apply to surface covers as well as underground assets.

45. Vertical Clearances from other services shall be as per TABLE .7

Testing, Asset Acceptance and Live Connections

- 46. Post construction activities (of both DW & NDW) such as swabbing, water quality testing, pressure testing and chlorination shall be carried out in accordance with WSA03-2011 MRWA edition and the MRWA Water Quality Compliance Specification. All test results shall be documented and reported to the Superintendent.
- 47. The Contractor &/or Consultant shall provide 5 days notice to the Superintendent prior to testing being undertaken.
- 48. Unless otherwise informed, all NDW main to meter connections shall be inspected by the Water Agency, with the Water Agency being notified at least 5 days prior to connection.
- All main to meter service connections are to remain exposed until inspected by the Water Agency compliance officer.
- 49. With each NDW connection, the Contractor must supply a signed pre-inspection checklist.
- 50. The Contractor shall provide at least 5 days notice to the Superintendent prior to connecting new works to the existing network. Shut down work shall be scheduled for 9am weekdays and be completed within 480 minutes.
- 51. Valves connecting new assets to the Water Agency's live system shall not be operated by the Contractor.
- 52. Pressure test pipeline systems using the method and duration specified in Table MRWA19.2.

TABLE 1. New Pipe Schedule

New Work		Drinking Main	Non-Drinking Main	
Size (DN)	Size (DN) Type Cl		Length	Length
225	PVC-O	16	186m	183m
150	PVC-O	16	-	-
100	PVC-O	16	178m	176m
63	PE80	12.5	-	-
50	PE80	12.5	-	-
40	PE80	12.5	-	-
25	PE80	12.5	Property Services	Property Services

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TABLE 2. Pipe Material Schedule

<u>'</u>			
MATERIAL	Reference	MATERIAL	Reference
PVC-M	WSA-PS-209	PE (retic & submain)	WSA-PS-207
PVC-O	WSA-PS-210	PE (property services)	WSA-PS-215
		•	

TABLE 3. Hydrant & Washout Schedule (All DW hydrants & Washouts are Water Agency owned)

Main Size	Fitting Type	Ownership	Location	Street	Location
225	CHLORINATION	NDW - YVW	End of Line	GRAND BLVD	WBL Lot 731
225	CHLORINATION	DW - YVW	End of Line	GRAND BLVD	2.5m W of WBL Lot 731
225	HYDRANT	NDW - Council	In Line	GRAND BLVD	7m W of EBL Lot 736
225	HYDRANT	DW - Council	In Line	GRAND BLVD	4.5m W of EBL Lot 736
100	WASHOUT	NDW - YVW	End of Line	ABLOOM VIEW	WBL Lot 757
100	WASHOUT	DW - YVW	End of Line	ABLOOM VIEW	2.5m W of WBL Lot 757
100	WASHOUT	NDW - YVW	End of Line	TURION DRIVE	11m W of WBL of Lot 768
100	WASHOUT	DW - YVW	End of Line	TURION DRIVE	13.5m W of WBL Lot 768
100	WASHOUT	NDW - YVW	End of Line	GOSSAMER WAY	SBL Lot 774
100	WASHOUT	DW - YVW	End of Line	GOSSAMER WAY	2.5m S of SBL Lot 774
100	HYDRANT	NDW - Council	In Line	GOSSAMER WAY	W of WBL Lot 774
100	HYDRANT	DW - Council	In Line	GOSSAMER WAY	W of WBL Lot 774

TABLE 5. Service Alignment Schedule (offsets in m)

Location	Water	ND-Water	Gas	NBN	Elec	Poles	ВОК
GRAND BOULEVARD	4.05 N	3.45 N	2.95 N	2.775 S	3.175 S	-	-
ABLOOM VIEW	3.05 N	2.55 N	2.05 N	1.775 S	2.60 S	-	-
TURION DRIVE	3.05 N	2.55 N	2.05 N	1.775 S	2.60 S	-	-
GOSSAMER WAY	3.05 W	2.55 W	2.05 W	1.775 E	2.60 E	-	-

TABLE 6. Thrust Restraint Schedule

ocation	Туре	Area (m ²)	Depth (m)	Width (m)	Quantity	Fitting	AHBP (kPa) USED
Α	Detail E, MRWA-W-205A	1.03	N/A	N/A	2	225 CHLOR.	50
В	Detail E, MRWA-W-205A	0.23	N/A	N/A	6	100 WASHOUT	50
С	Detail F, MRWA-W-205B	0.23	N/A	N/A	2	100 x 100 TEE	50
D	Detail K, MRWA-W-205A	0.30	N/A	N/A	2	100 VALVE	50

TABLE 7. Vertical Clearances

Existing or proposed	Minimum vertic
Service	clearance (mr
Water mains ≤ DN375	150
Water mains >DN375	300
Gas mains	150
Teleco conduits and cables	150

Existing or proposed Service	Minimum vertical clearance (mm)
Electricity conduits and cables	225
Stormwater drains & pits	150
Sewers - gravity	500
Sewers - pressure & vacuum	300

- Vertical clearance between water mains shall depend on the larger main diameter
- Water mains shall cross over sewers and drains unless shown otherwise.
- Maintain additional clearance from High Voltage electrical cables to allow for a protective barrier and marking.

ISSUED FOR CONSTRUCTION

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATION 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.

WARNING

BEWARE OF ASBESTOS

SOME UNDERGROUND SERVICES MAYBE

CONSTRUCTED FROM ASBESTOS CONTAINING

MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL

ASBESTOS HAZARD

				DESIGNED	C.M.B.	WATSONS REFERENCE	36182/7B	
В	YVW REQUESTED AMENDMENTS	8/8/14	A.S.C.	CHECKED	A.S.C.	MELWAY REFERENCE	386 A1	
Α	LOT 771 & 773 PROPERTY SERVICES AMENDED	7/7/14	A.S.C.	AUTHORISED	A C C	SOUTH EAST	00 /025	
REV	DESCRIPTION	DATE	APPROVED	ВҮ	A.S.C.	WATER REFERENCE	09/935	



5

CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS
TOWN PLANNERS - URBAN DESIGNERS

MORNINGTON MELBOURNE
5 Main Street, The Melbournian, Suite 2

MORNINGTON MELBOURNE
5 Main Street, The Melbournian, Suite 2
P.O. Box 171 3931 250 St. Kilda Rd.
Phone: (03) 5975 4644 Phone:(03) 9697 8000
Fax (03) 5975 3916 Fax:(03) 9697 8099
DX 93118 Mornington



9

YARRA VALLEY WATER

ACN 066 902 501

WATER MAIN PLAN

TRILLIUM ESTATE - STAGE 7B

535 MOUNT RIDLEY ROAD, MICKLEHAM

HUME CITY COUNCIL

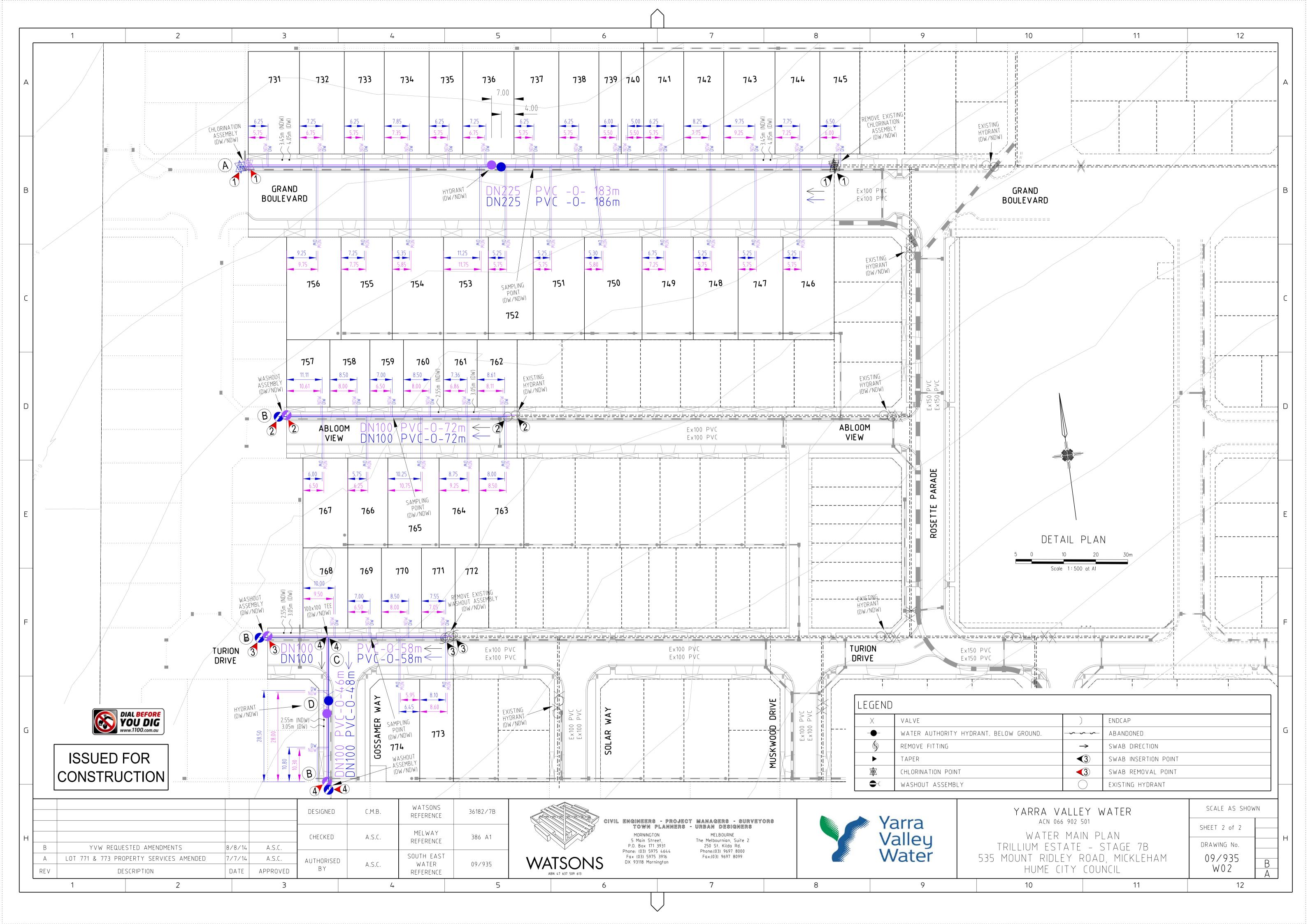
SCALE AS SHOWN

SHEET 1 of 2

DRAWING No.

09/935
W01
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11



MOUNT RIDLEY ROAD TELODY 5A WA 18 LOCALITY PLAN Scale 1:2500 at A1 17 7B GRAND BOULEVARD 3B

SHEET INDEX

LOCALITY PLAN, SHEET INDEX & GENERAL NOTES HUME CITY COUNCIL & SITE SPECIFIC NOTES TYPICAL PAVEMENT CROSS SECTIONS DETAIL PLAN & SERVICE OFFSET TABLE INTERSECTION DETAILS, LIP OF KERB PROFILES & CURVE SETOUT TABLE GRAND BOULEVARD LONGITUDINAL SECTION 7-11 GRAND BOULEVARD CROSS SECTIONS ABLOOM VIEW LONGITUDINAL & CROSS SECTIONS ABLOOM VIEW CROSS SECTIONS TURION DRIVE LONGITUDINAL SECTION TURION DRIVE CROSS SECTIONS GOSSAMER WAY LONGITUDINAL & CROSS SECTIONS 17-21 DRAINAGE LONGITUDINAL SECTIONS PIT SCHEDULE LINEMARKING & SIGNAGE PLAN PARKING PLAN TURNING TEMPLATES EARTHWORKS PLAN TEMPORARY CUTOFF DRAIN & TEMPORARY OUTFALL

GENERAL NOTES

UNLESS NOTED OTHERWISE

- 1. ALL LEVELS AND DIMENSIONS ARE IN METRES (UNO).
- 2. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT STANDARDS, DRAWINGS AND SPECIFICATIONS OF THE RELEVANT MUNICIPAL AND STATUTORY AUTHORITIES (CURRENT AT THE TIME OF CONSTRUCTION), AND THE AUSTRALIAN STANDARD GENERAL CONDITIONS OF CONTRACT AS 2124-1992.
- 3. THE CONTRACTOR SHALL CHECK LOCATION AND DEPTH OF ALL EXISTING SERVICES, INCLUDING THOSE WHICH MAY HAVE BEEN ABANDONED, PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER
- 4. FINAL LOCATION OF SERVICE CONDUITS, HOUSE DRAINS AND VEHICLE CROSSINGS SHALL BE DETERMINED ON-SITE BY THE ENGINEER WHERE REQUIRED. CONDUITS FOR GAS AND WATER ARE TO BE A MINIMUM OF 4 METRES CLEAR OF SIDE BOUNDARIES WHERE PRACTICAL. WATER SERVICE LOCATIONS TO BE DETERMINED IN CONJUNCTION WITH WATERMAIN SUBCONTRACTOR.
- 5. THE WORKS ARE TO INCLUDE THE COMPLETE GRADING AND REINSTATEMENT OF DISTURBED AREAS, INCLUDING RESURFACING WITH 150MM MINIMUM DEPTH OF APPROVED TOPSOIL, SOWN TO THE SATISFACTION OF THE ENGINEER.
- 6. THE PLANS OF SUBDIVISION CERTIFIED BY COUNCIL ARE AN ANNEXURE TO THESE DRAWINGS
- 7. STANDARD DRAWINGS ISSUED BY COUNCIL ARE AN ANNEXURE TO THESE DRAWINGS.
- 8. MELBOURNE WATER PLANS FOR THE ADJACENT WETLAND & OPEN WATER BODY ARE AN ANNEXURE TO THESE DRAWINGS.
- 9. ALL DRAINAGE PIPES WITHIN EASEMENTS ARE AT 1 METRE CENTRELINE OFFSET UNLESS NOTED OTHERWISE.
- 10. PERMISSION IS TO BE OBTAINED FROM THE WATER COMPANY FOR THE USE OF WATER SUPPLY FOR CONSTRUCTION PURPOSES.
- 11. THE 'SCHEDULE OF QUANTITIES' ARE AN ANNEXURE TO THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE 'SCHEDULE OF QUANTITIES' ACCURATELY REFLECTS THE INFORMATION DETAILED IN THESE PLANS. ALL DISCREPANCIES SHOULD BE REPORTED BACK TO THE ENGINEER PRIOR TO SIGNING OF CONTRACTS. NO ALLOWANCES WILL BE MADE FOR DISCREPANCIES ONCE CONTRACTS HAVE BEEN SIGNED.
- 12. THESE PLANS ARE FOR SUBDIVISION CONSTRUCTION PURPOSES ONLY.
- 13. THESE PLANS MAY NOT BE REPRODUCED EXCEPT IN FULL.

			VERSION DETAILS			SCALE:	AS SHOWN	N				HUME CITY COUNCIL	PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/2014	4	MORNINGTON	TOLAN DI ANNEDO		VILLAWOOD PROPERTIES P/L	
						LEVEL DATA:	Ltopo.dgn		5 Main Street, Phone:(03) 5975 4644	TOWN PLANNERSCIVIL ENGINEERS		TRILLIUM - STAGE 7B	36182/7B
Е	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916	• SURVEYORS		535 MOUNT RIDLEY ROAD	R 01
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC				MELBOURNE	 Project Managers 		MICKLEHAM	
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B			2 · Urban Designers	WATSONS		_
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd. Phone:(03) 9697 8000	 Structural Engineers 	URBAN DEVELOPMENT	LOCALITY PLAN, SHEET INDEX,	revision E
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	Fax:(03) 9697 8099		CONSULTANTS & MANAGERS	& GENERAL NOTES	
LENAME: k:\	36182∖36182_7E	3∖dgn\R01.dgn				AUTHORISED:	A.S.C.	DATE: MAR 2014	1		ABN 47 637 509 613	& GENERAL MOTES	SHEET 1 OF 27

HUME CITY COUNCIL NOTES

- 1 ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS AND PRIOR TO AN ONSITE PRECOMMENCEMENT MEETING
- PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:

 a) SOURCE OF QUARRY MATERIAL

 b) N. A. T. A. APPROVED TESTS RESULTS FOR THE F. C. R. THAT IS TO BE USED c) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985, HAVE BEEN AND WILL BE COMPLIED WITH.
- ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL." APPROPIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
- THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.
- 8 ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 9 ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE HUME CITY COUNCIL SPECIFICATIONS.
- FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A. S. 1289. 5. 1. 1-2003.
- 12 FILLING TO COMPLY WITH A. S. 3798-1996 APPENDIX B, LEVEL 1 (OR 2) AS SPECIFIED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- 14 WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRECONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
- NO TREE OR NATIVE VEGETAION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCILS SUSTAINABLE ENVIRONMENT DEPARTMENT.

 ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE.
- 16 BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA.
- 17 THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1. 0m IN HEIGHT.
- ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
- ALL DISTURBED AREAS, ie, NATURESTRIPS, BATTERS, ALLOTMENTS & RESERVES, ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100mm LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS) AND SOWN WITH GRASS SEED. SEED IS TO BE A DROUGHT TOLERANT COUCH/FESCUE MIX UNLESS OTHERWISE DETAILED. BLEND IS GENERALLY AS FOLLOWS:
 40% Dwarf Tall Fescue drought tolerant cultivars
 40% Couch
 20% Hard Fescue
 - NOTE: GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD.
- FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
- 21 ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.
- 22 ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SANDBLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.

- ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S. 1289. 5. 2. 1-2003.
- ALL STORMWATER DRAINS ARE TO BE CLASS 2 R. C. OR RIGID F. R. C PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 600mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 600mm DIA.
- 25 WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW OUT AND MATCHED NEATLY.
- 26 ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
- 27 ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 3 FCR COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A S 1289.5.2.1-2003. ALL DRAINS, SEWERS, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT CONDUITS) ARE TO BE BACKFILLED WITH 20mm CLASS 2 FCR COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A S 1289.5 2.1-2003.
- PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A. S. 1289. 5. 1. 1-2003.
- ALL EXISTING ASSETS AFFECTED BY THE WORKS, EG SIGNS, VEHICLE CROSSINGS, FOOTPATHS, KERB AND LINEMARKING SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C. F. A, M. F. E. S. B & N. R. E). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST
- AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS
- ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- 35 ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH A.S. 1742 1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH STANDARD DRAWING SD408
- ALL LINEMARKING PAINT SHALL BE LONG LIFE TYPE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
- 37 ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A. S. 1743 2001.
- HOUSE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A
 MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE
 TO BE HEAVY DUTY SEWER GRADE. PVC PIPES SHALL BE BACKFILLED WITH 10mm
 MINUS F. C. R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.
- 39 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.0m FROM THE LOW SIDE TITLE BOUNDARY AND PROPERTY INLETS 1.0m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN.

40 BLASTING GENERALLY IS NOT ENCOURAGED. HOWEVER BLASTING MAY BE

REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS NECCESARY. RESIDENTS LIKELY TO BE AFFECTED BY THE BLASTING AND ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING PRIOR TO WORKS COMMENCING. COPIES OF THESE NOTIFICATIONS ARE TO BE SUBMITTED TO COUNCIL. RESIDENT NOTIFICATION LETTER IS TO INCLUDE BLASTING GUIDELINES. FIRING AND MISFIRE PROCEDURES AND CONTRACTOR AND CONSULTANT CONTACT NAMES AND PHONE NUMBERS. ALL BLASTING IS TO BE WITHIN THE LIMITS FOR AIR AND GROUND VIBRATION LEVELS AS SET DOWN IN A.S. 2187.2-1993. ALL BLASTS SHALL BE MONITORED FOR AIR AND NOISE VIBRATION AT POTENTIALLY AFFECTED RESIDENCES. "FORM A" FROM AS 2187. 2-1993, AND WAVE TRACE COPIES ARE TO BE SUBMITTED TO COUNCIL FOR EACH BLAST. BLASTING IS TO BE RESTRICTED TO BETWEEN 9:00am AND 3:30pm BLASTING IS NOT TO OCCUR ON WEEKENDS OR PUBLIC HOLIDAYS. BLASTING AREA SIGNS ARE TO BE PLACED AT ALL ENTRANCES TO THE SITE.

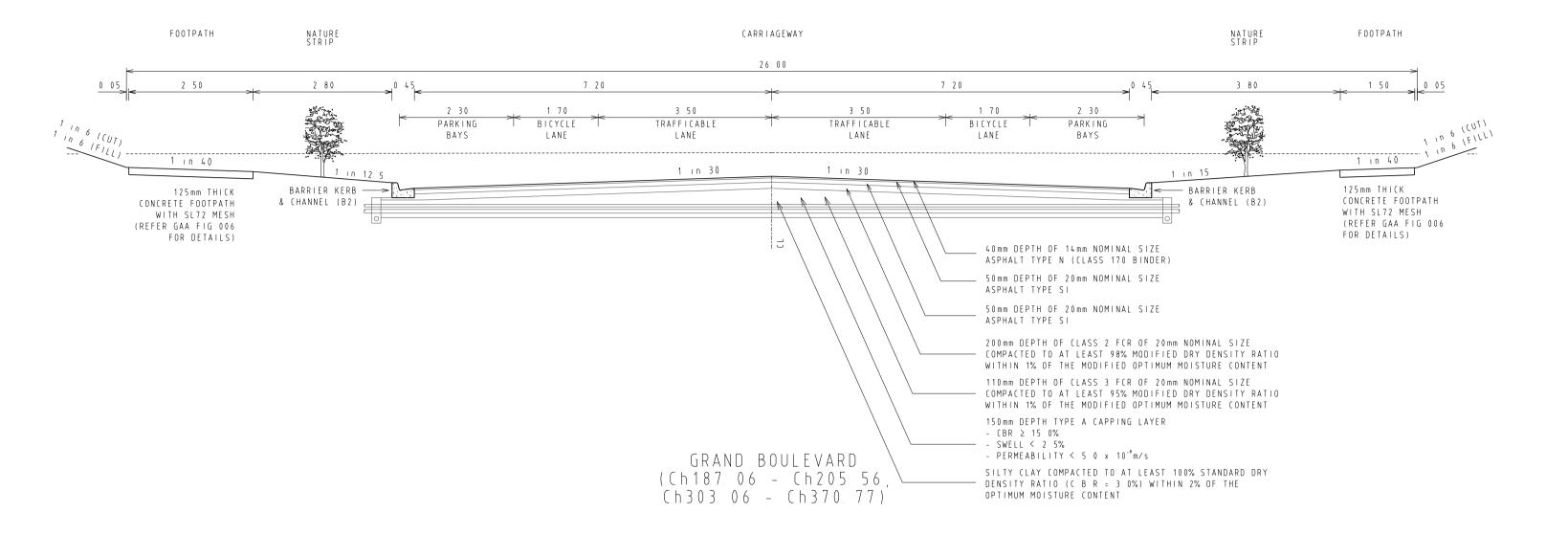
SITE SPECIFIC NOTES

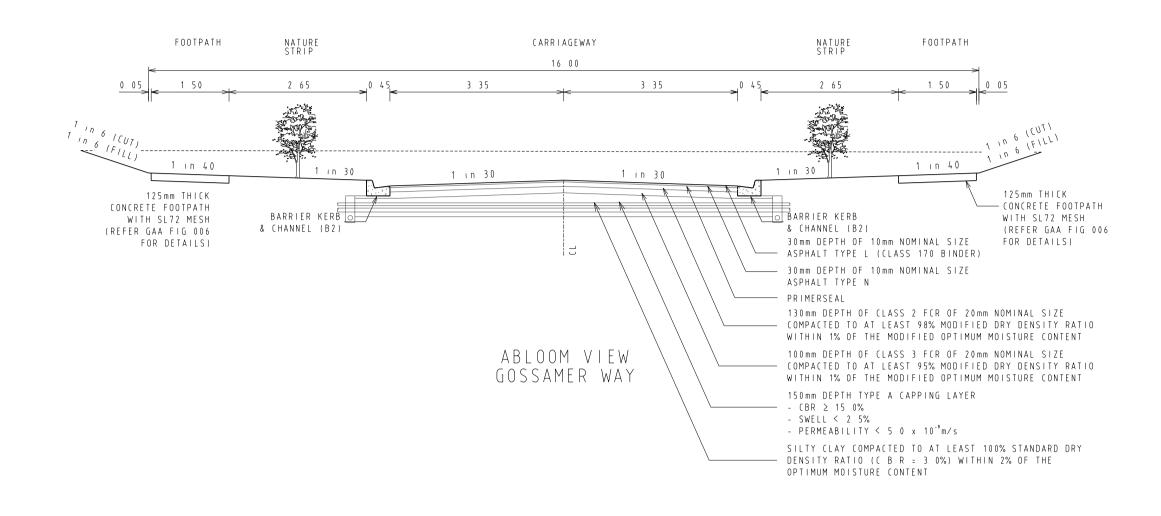
- 1 ALL CONSTRUCTION TRAFFIC, STORAGE AND COMPOUNDS ARE TO BE LIMITED TO THE SITE OF WORKS.

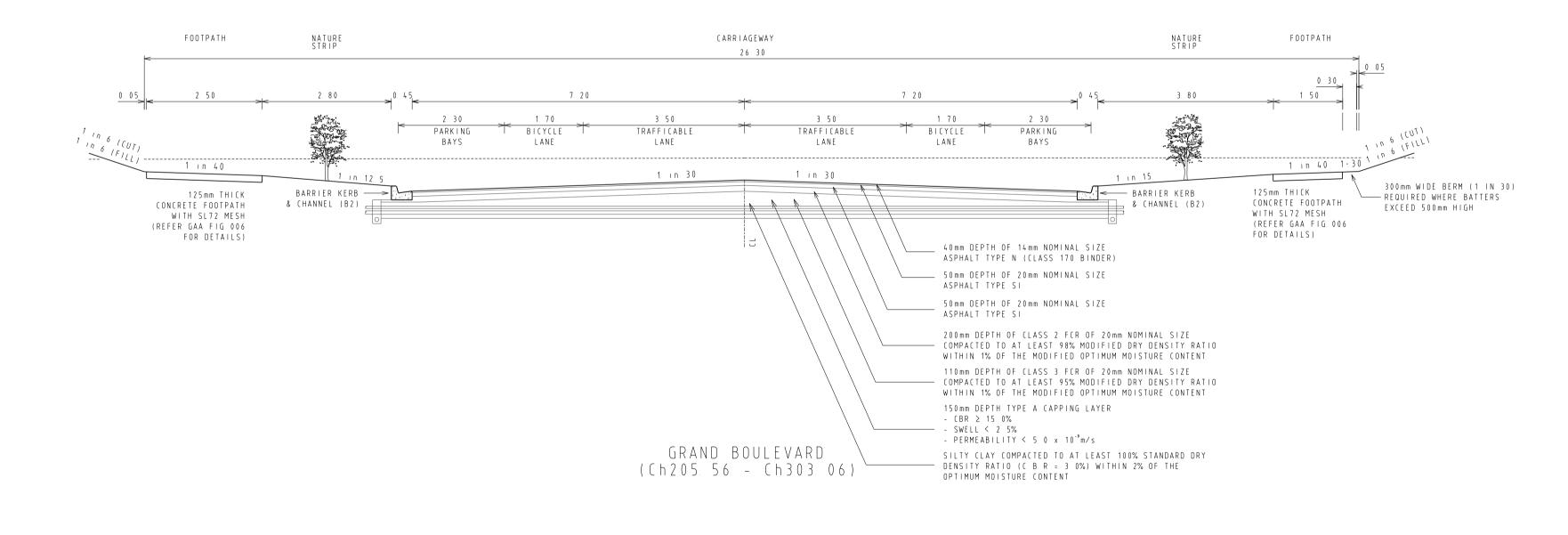
 THE FUTURE STAGE AREA IS TO BE KEPT UNDISTURBED, EXCEPT FOR SPECIFIC WORKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE SILTATION CONTROL DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
- FILLING IN ALL PROPERTIES AND ROAD RESERVES IS TO BE CARRIED OUT USING APPROVED CLAY FILL.

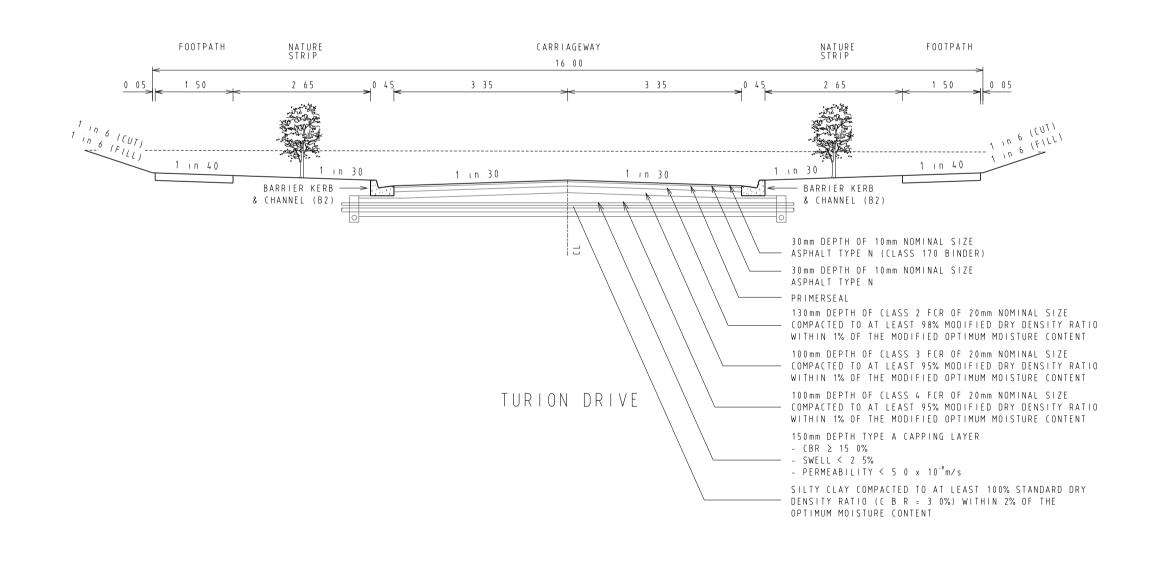
 TOP SOIL AND ALL VEGETABLE MATTER TO BE STRIPPED FROM SITE PRIOR TO FILLING. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY. ALL FILLING TO COMPLY WITH AS3798 2007, SECTION 8.2, LEVEL 1.
- 4 ALL SERVICES TRENCHES UNDER PAVEMENT WORKS ARE TO BE BACKFILLED WITH FCR AS SPECIFIED.
- ANY CYPRESS OR PINE TREES MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS, AND COUNCIL'S LANDSCAPE OFFICER MUST BE CONSULTED PRIOR TO EITHER THE REMOVAL, OR RETENTION OF ANY OTHER TREES. NO TOPSOIL SHALL BE REMOVED FROM SITE.
- 6 AG. DRAIN TO BE CONSTRUCTED BEHIND ALL KERB AND CHANNEL.
- 7 ALL DRAINAGE PIPES GREATER THAN 150mm TO BE R R J CLASS 2. (UNO)
- 8 ACCESS TO EXISTING RESIDENCE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION
- 9 ALL DRAINAGE LINES UNDER PAVEMENTS, PARKING BAYS, ETC AND WHERE TRENCH IS WITHIN 150mm OF BACK OF KERB ARE TO BE BACKFILLED WITH FCR AS SPECIFIED
- 10 APPROPRIATE INSPECTIONS SHALL BE ORGANISED WITH HUME CITY COUNCIL'S COUNCIL WORKS SUPERVISOR.
- REFER SEPARATE PLAN FOR WORKS ASSOCIATED WITH SEWER, WATER SUPPLY, ELECTRICITY SUPPLY, TELSTRA AND GAS SUPPLY. THESE SERVICES ARE SHOWN ON THE DETAIL PLAN INDICATIVELY ONLY & MAY BE SUBJECT TO MINOR VARIATIONS
- 12 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND BACKFILLING OF TRENCHING FOR RETICULATION ELECTRICITY AND COMMUNICATION CABLES, AND THE REMOVAL OF EXCESS SPOIL
- 13 MINIMUM FALL ON ALL LOTS TO BE 1 IN 150 LONGITUDINALLY.
- 14 PAVEMENT DEPTH TO BE MODIFIED AS DIRECTED BY HUME CITY COUNCIL.
- 15 USE OF ANY SOFT RIPPED ROCK IN ROAD PAVEMENT IS TO CONFORM TO SPECIFICATIONS FOR RIPPED ROCK.
- 16 ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT HUME CITY COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF HUME CITY COUNCIL SUPERVISING ENGINEER.
- 17 NO CUT OR FILL EXTENDS INTO BUILDING ENVELOPES, EXCEPT WHERE SHOWN
- THE CONTRACTOR SHALL CONTACT JEMENA'S JOHN HEMSLEY (03) 93512214 FOR THE COORDINATION OF ELECTRICAL WORKS, AT LEAST 28 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF ELECTRICAL WORKS.
- THE CONTRACTOR SHALL CONTACT TELSTRA'S NOMINATED REPRESENTATIVE, PETER FEBO
 (03) 9632 6384 FOR THE COORDINATION OF TELSTRA WORKS IN LAYING CONDUITS, AT LEAST 28 DAYS PRIOR
 TO THE COMMENCEMENT OF CONSTRUCTION OF TELSTRA WORKS.
- 20 TELSTRA AND ELECTRICITY CABLES ARE TO BE PLACED IN A SHARED TRENCH.
- ALL BATTERS SHALL BE BLENDED INTO THE NATURAL GROUND LEVEL TO THE SATISFACTION OF THE ENGINEER, 0 3M BERM REQUIRED AT TOE OF BATTERS HIGHER THAN 0.5M UNLESS SHOWN OTHERWISE.
- DRIVEWAYS ARE TO BE CUT ONTO ALL ALLOTMENTS, AT MAXIMUM GRADE OF 1 IN 5 WHERE BATTERS HIGHER THAN 0.70M. CUT BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, HAY, STRAW AND BITUMINOUS EMULSION.
- 23 INVERT LEVEL OF PROPERTY INLETS TO BE MINIMUM OF 500mm BELOW FINISHED SURFACE LEVELS AS PER HUME CITY COUNCIL STANDARDS.
- SIGNS, MARKINGS AND DELINEATORS TO BE INSTALLED ON ROADS AS APPLICABLE IN ACCORDANCE WITH AS 1742. 2. ALL LINE MARKING TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- STREET SIGNS ARE TO BE TO CURRENT HUME CITY COUNCIL STANDARD'S, INCLUDING PROVISION OF LOGO.
- 26 REFER TO SHEET 4, 5 & 6 FOR PSM LOCATIONS.
- CONDUIT LOCATIONS AND HOUSE DRAIN LOCATIONS ARE TO BE MARKED BY STAMP ON ALL PERMANENT CONCRETE WORKS IN ACCORDANCE WITH HUME CITY COUNCIL STANDARDS.
- 28 ALL PIT LIDS ARE TO BE TO CURRENT HUME CITY COUNCIL STANDARDS.
- 29 ALL VEHICLE CROSSINGS SHOWN ARE INDICATIVE ONLY. VEHICLE CROSSING ARE TO BE CONSTRUCTED AS PER HUME CITY COUNCIL STANDARDS.
- TACTILE INDICATORS TO BE PROVIDED AT ALL PRAM CROSSINGS TO HUME CITY COUNCIL STANDARD'S AND IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1428. 4.
- 31 PEDESTRIAN CROSSINGS THROUGH ALL SPLITTER ISLAND TO BE AT PAVEMENT LEVEL.
- ALL PIT FLOORS WITH LESS THAN 50MM DROP TO BE SHAPED TO ACCOMODATE DROP THROUGH PITS NO ALLOWANCE FOR TOLERANCE HAS BEEN MADE WITH THE IL'S PROVIDED. ALL PITS TO BE CONSTRUCTED TO HUME CITY COUNCIL STANDARDS.
- WHERE ANY EXISTING DAMS, OPEN DRAINS OR CHANNELS ARE TO BE FILLED, INVERT LEVELS MUST BE TAKEN PRIOR TO COMMENCEMENT OF FILLIG AND THE LEVELS SHOWN ON THE 'AS-CONSTRUCTED' PLANS

			VERSION DETAILS			SCALE:	AS SHOV	WN				HUME CITY COUNCIL	PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/20	014	MORNINGTON	TOUR DIANNEDC		VILLAWOOD PROPERTIES P/L	
						LEVEL DATA:	Ltopo.dg	n	5 Main Street, Phone:(03) 5975 464	TOWN PLANNERSCIVIL ENGINEERS		TRILLIUM - STAGE 7B	36182/7B
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916	• SURVEYORS		535 MOUNT RIDLEY ROAD	R02
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC		2/402/77	D.	MELBOURNE	 Project Managers 		MICKLEHAM	1102
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7		The Melburnian, Suit	te 2 • Urban Designers	WATSONS		_
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd. Phone:(03) 9697 8000	Structural Engineers	**/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LILIME CITY COLINCII	REVISION E
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	Fax:(03) 9697 8099	0 -	CONSULTANTS & MANAGERS	HUME CITY COUNCIL & SITE SPECIFIC NOTES	
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			VERSION DETAILS			SCALE:	AS SHO	WN		
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/2	014	MORNINGTON	TOLAL DI INVEDE
						LEVEL DATA:	L†opo.dg	n	5 Main Street, Phone:(03) 5975 4644	TOWN PLANNERSCIVIL ENGINEERS
Е	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916	SURVEYORS
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC				 MELBOURNE	D: M
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7	В 	The Melburnian, Suite	 Project Managers Urhan Designers
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd.	 Structural Engineers
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	Phone:(03) 9697 8000 Fax:(03) 9697 8099	-
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HUME CITY COUNCIL VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS TYPICAL PAVEMENT CROSS SECTIONS ABN 47 637 509 613

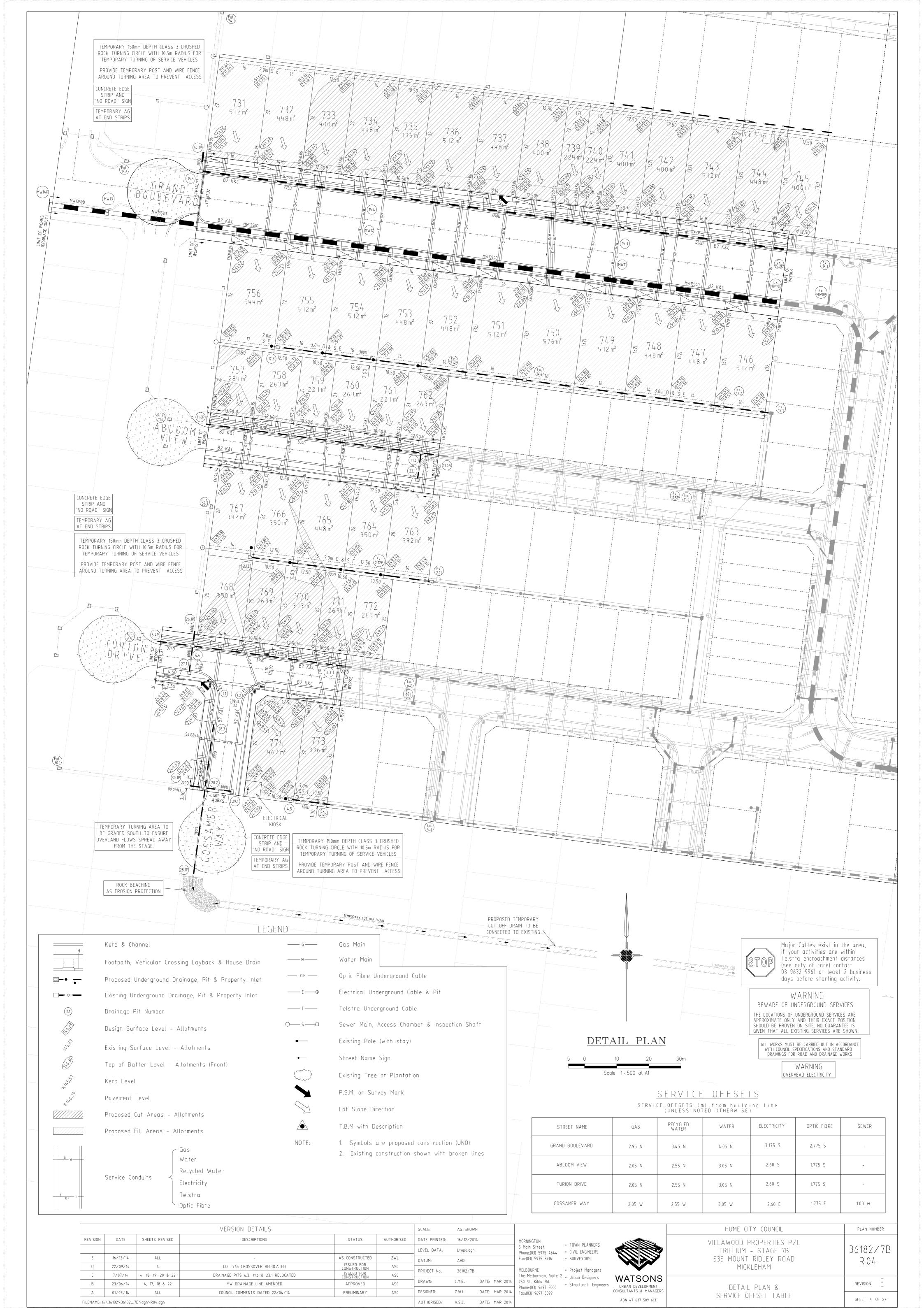
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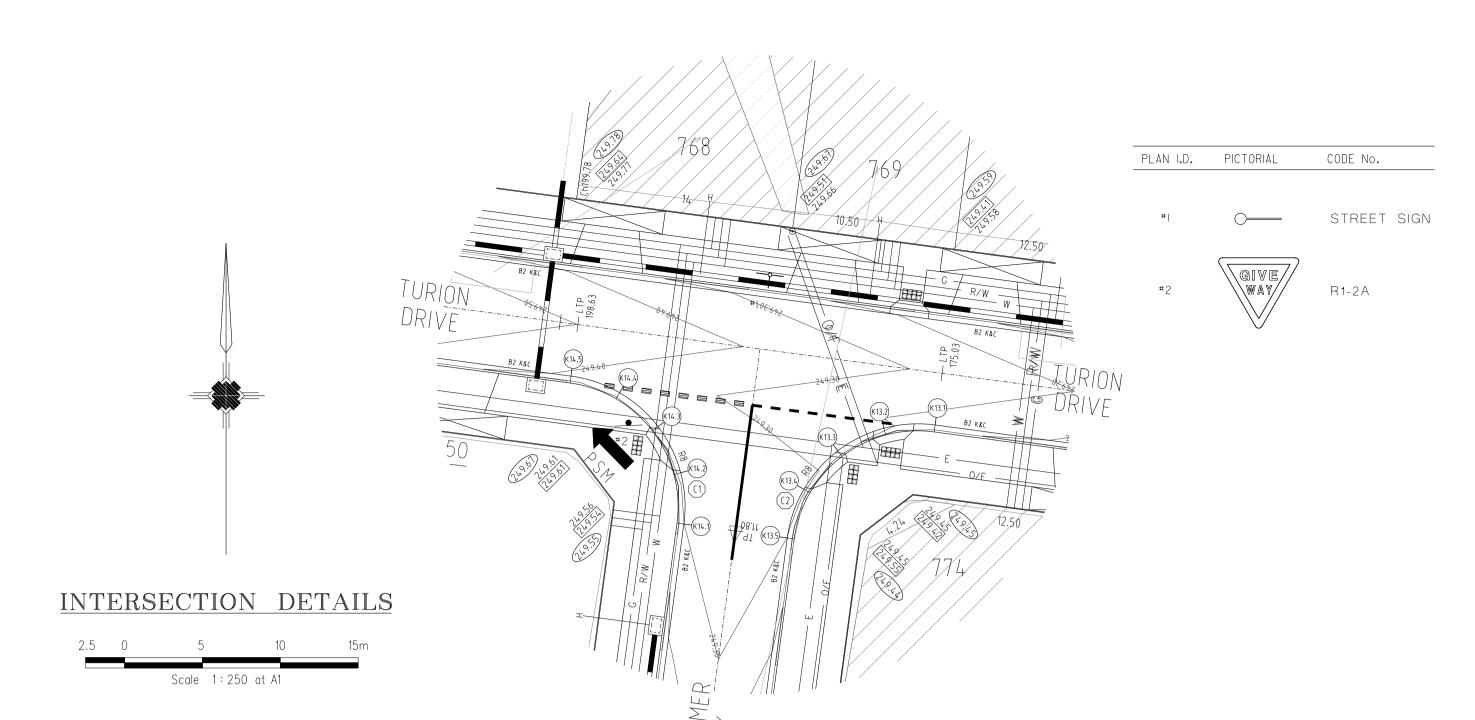
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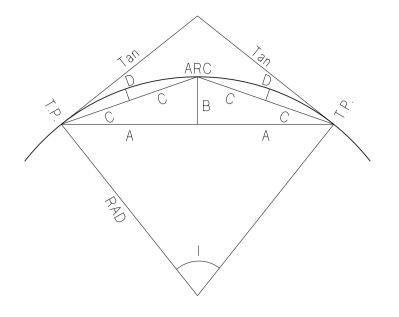
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SHEET 3 OF 27

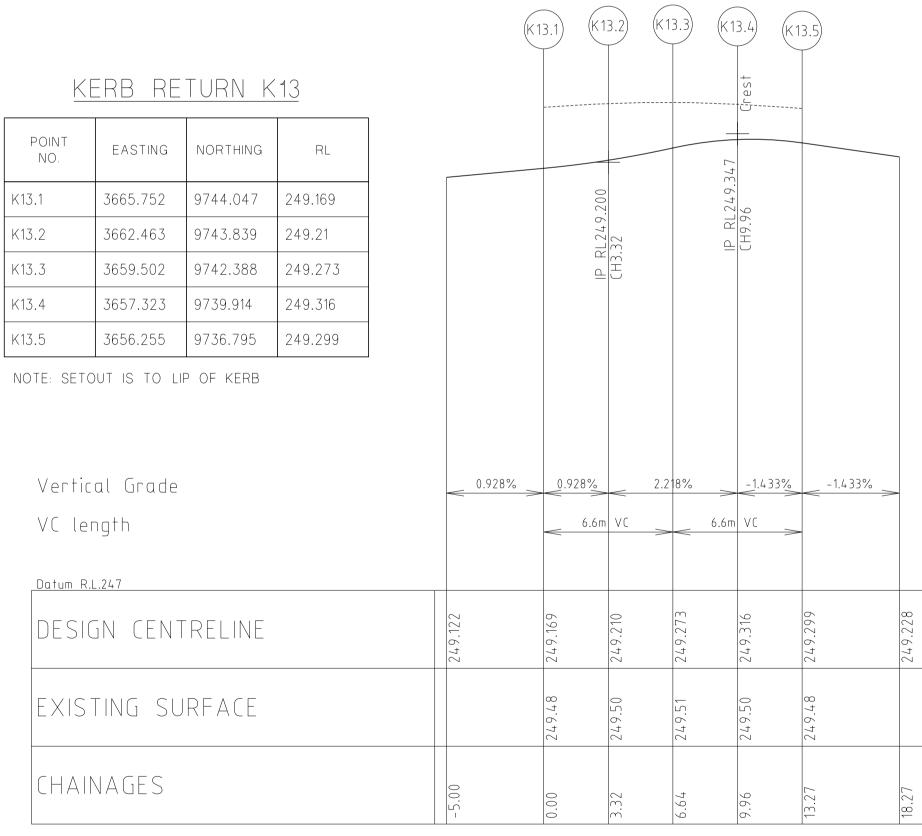






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2	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61



1/10	LONGITUDINAL	CECTION
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					(K14.1)	(K14.2)	(K14.3)	(K14.4)	K14.5	
K	(ERB RE	TURN K	<u>(14</u>							
POINT NO.	EASTING	NORTHING	RL							
K14.1	3649.615	9737.686	249.299							
K14.2	3649.407	9740.975	249.321							
K14.3	3647.956	9743.936	249.344							
<14.4	3645.483	9746.116	249.366							
K14.5	3642.363	9747.183	249.388							
	cal Grade			1.433%			0.667%		0.928%	
VC le	ength R.L.247									
DESI	GN CEN	TRELINE		249.228	249.299	249.321	249.344	249.366	249.388	249.434
EXIS	STING SU	JRFACE			249.52	249.55	249.59	249.63	249.66	
CHA	INAGES			-5.00	0.00	3.32	79.9	96.6	13.27	18.27

K14 LONGITUDINAL SECTION

LON	GI	TUI	DINAL	SECT	IONS
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VERT.	0.2	0	0.4	0.8	1.2m
		Hor	iz. Scale 1 : 200	at A1	
		Ve	rt. Scale 1:20	at A1	

ALL WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS FOR ROAD AND DRAINAGE WORKS

WARNING OVERHEAD ELECTRICITY

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

Major Cables exist in the area, if your activities are within Telstra encroachment distances (see duty of care) contact 03 9632 9961 at least 2 business days before starting activity.

			VERSION DETAILS			SCALE:	AS SHOW	ψN	
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/20)14	MORNINGTON
						LEVEL DATA:	L†opo.dgr	n	5 Main Street, Phone:(03) 5975 4644
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC				MELBOURNE
C	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7E		The Melburnian, Suite
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd.
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	Phone:(03) 9697 8000 Fax:(03) 9697 8099
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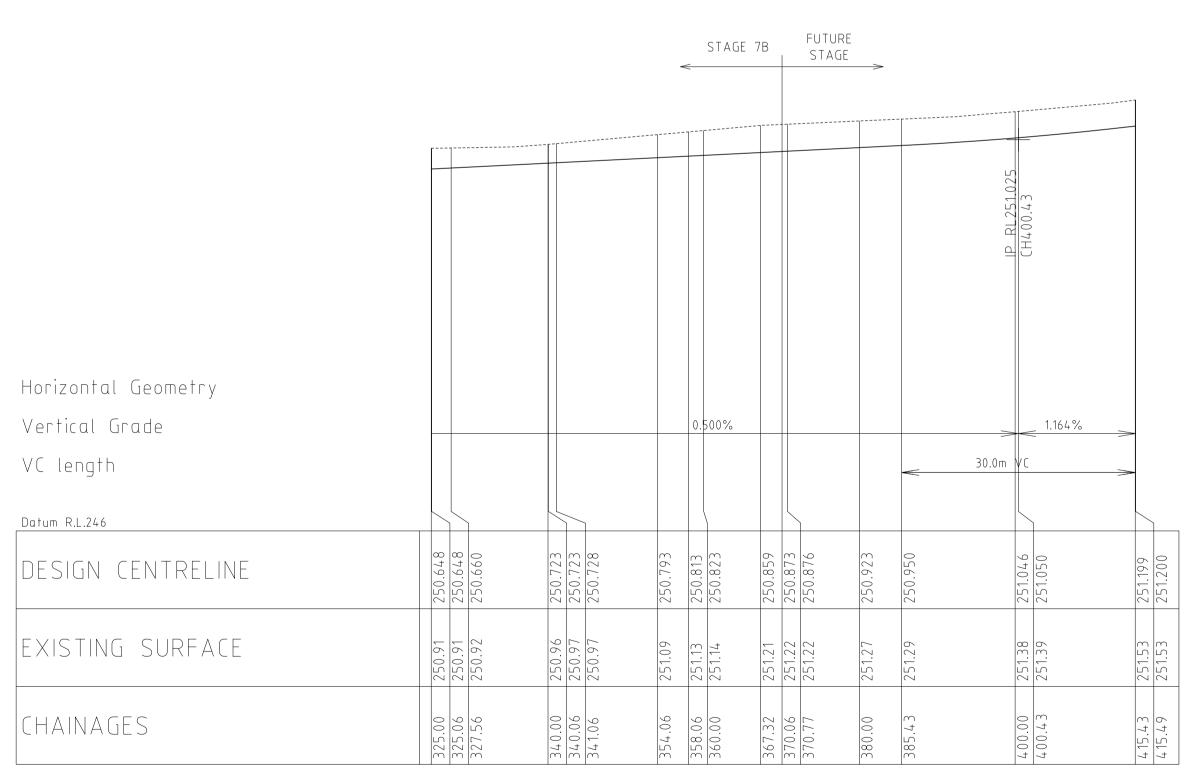


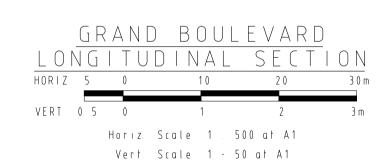


	HUME CITY COUNCIL	PLAN NUMBER
	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7B R 05
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13	& CURVE SETOUT TABLE	SHEET 5 OF 27

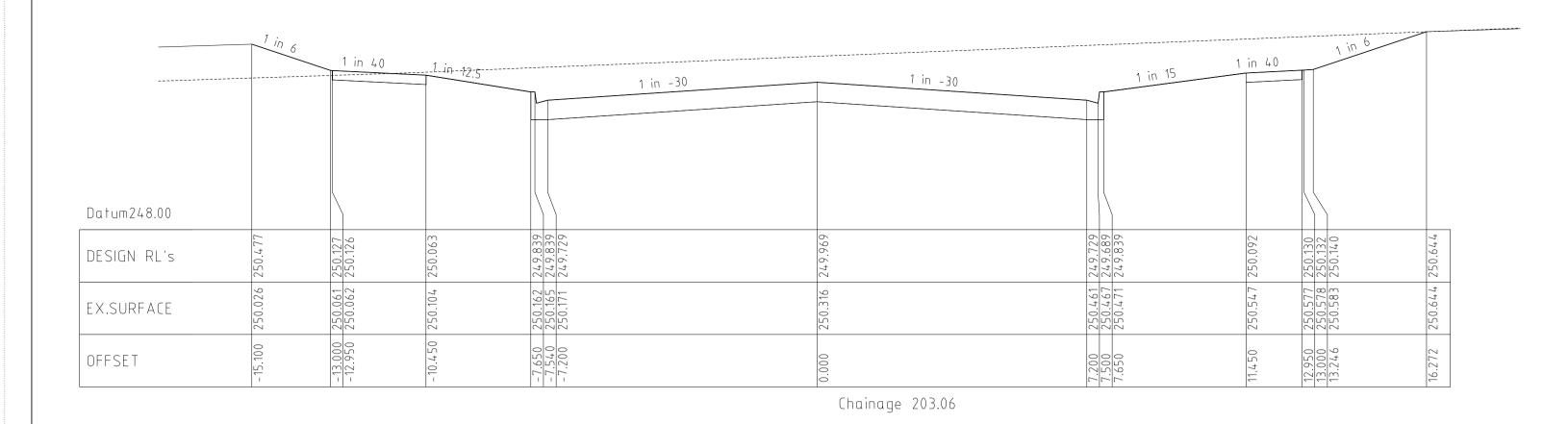
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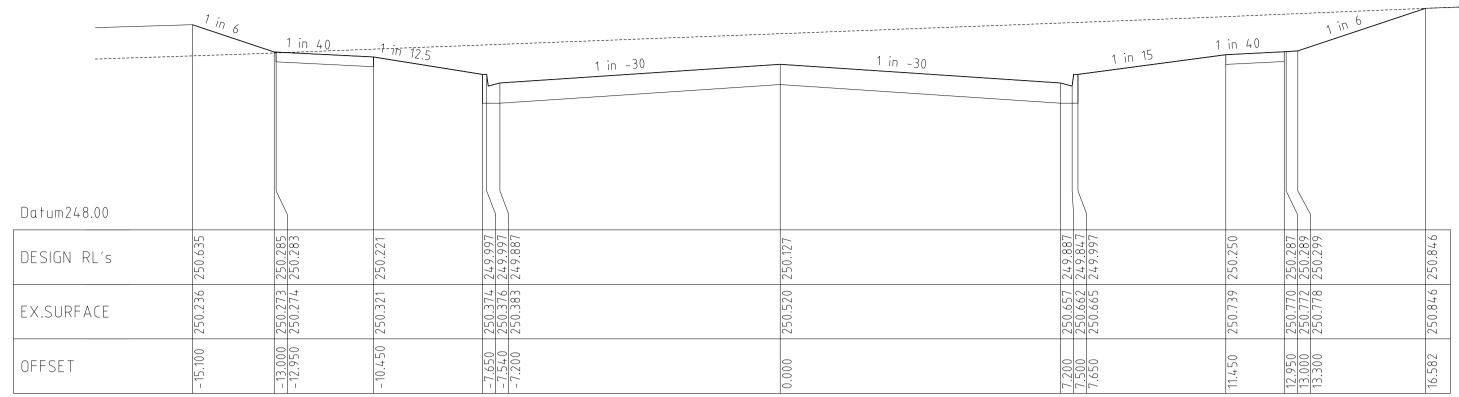
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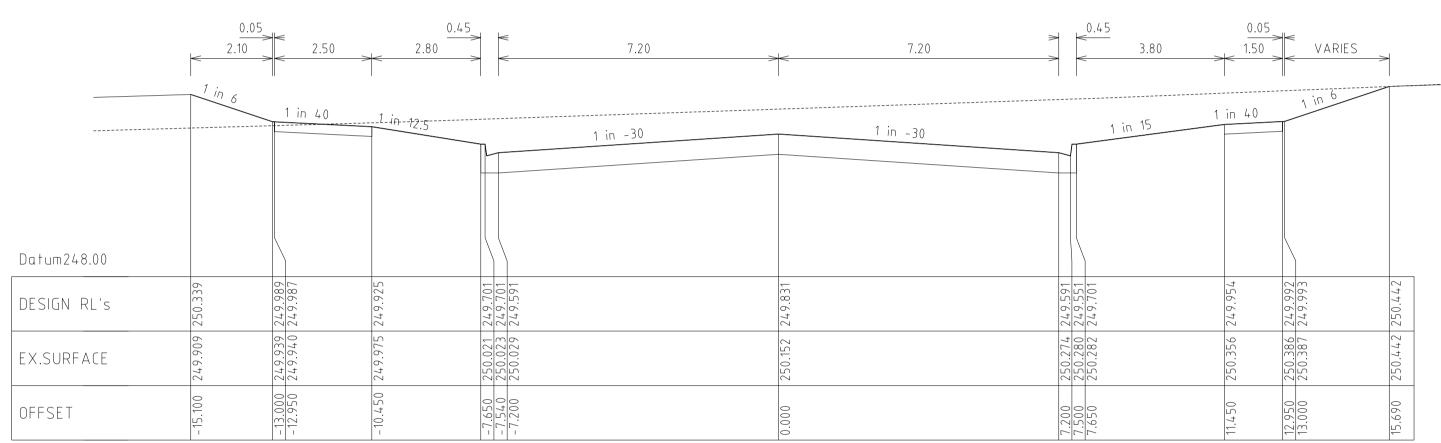


			VERSION DETAILS			SCALE:	AS SHOW	N				HUME CITY COUNCIL	PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/201	4	MORNINGTON	TOWN DIAMMEDO		VILLAWOOD PROPERTIES P/L	
						LEVEL DATA:	Ltopo.dgn		5 Main Street, Phone:(03) 5975 4644	TOWN PLANNERSCIVIL ENGINEERS		TRILLIUM - STAGE 7B	36182/7B
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916	• SURVEYORS		535 MOUNT RIDLEY ROAD	R 06
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC				MELBOURNE	 Project Managers 		MICKLEHAM	
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B		The Melburnian, Suite	2 · Urban Designers	WATSONS		_
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd. Phone:(03) 9697 8000	 Structural Engineers 	VV / (100100	GRAND BOULEVARD	revision E
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	Fax:(03) 9697 8099		CONSULTANTS & MANAGERS	LONGITUDINAL SECTION	
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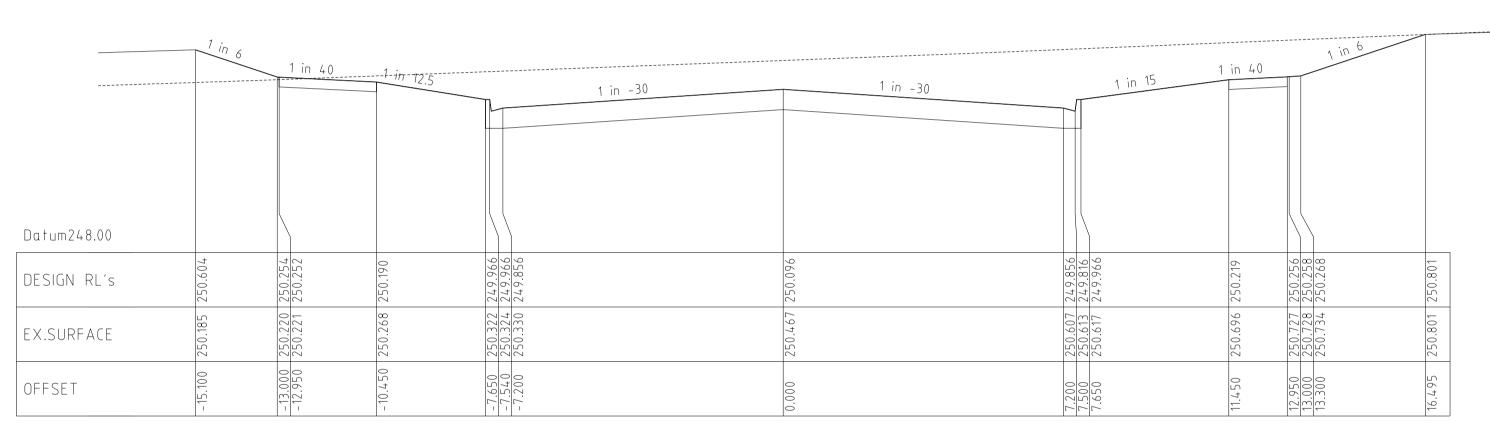




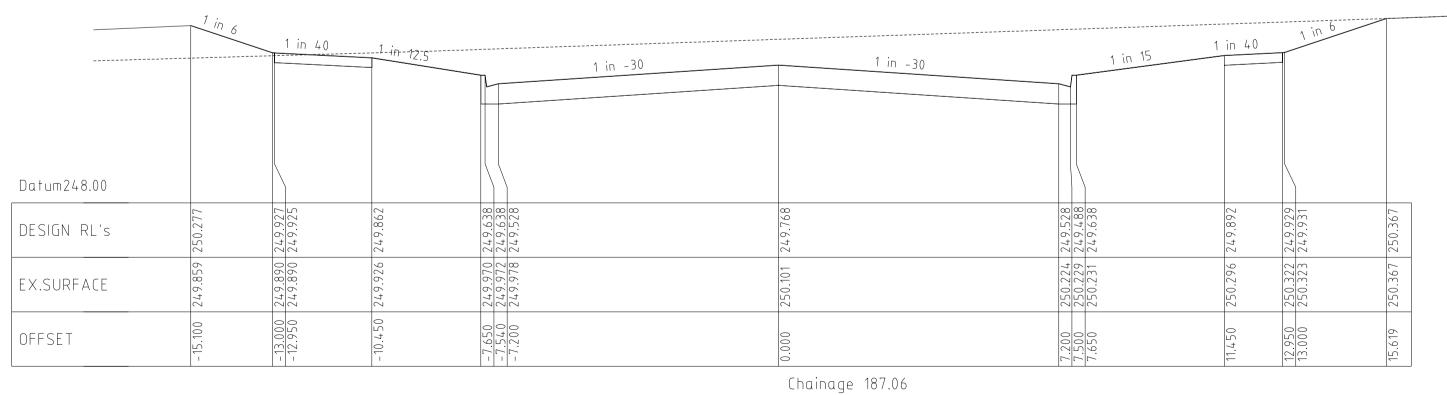
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Chainage 191.56



Chainage 217.06



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 DESIGN RL's EX.SURFACE -13.000 OFFSET Chainage 205.56

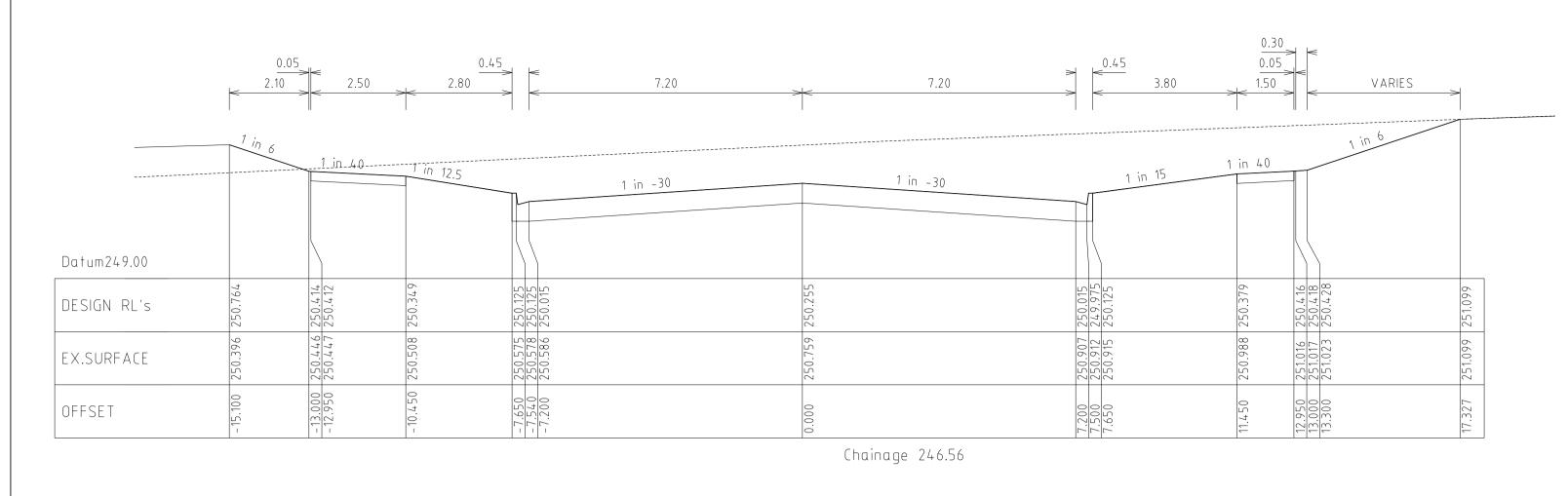
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		Vert.	Scale 1	: 50 at A1	

			VERSION DETAILS		SCALE:	AS SHOW	'N				
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D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B			MELBOURNE	 Project Managers
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PRUJECT No.:	30102/15			1	Urban Designers
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE:	MAR 2014	1 5EV C+ K;144 D4	• Structural Engineers
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE:	MAR 2014	Fax:(03) 9697 8099	
FILENAME: k:	\36182\36182 <u>_</u> 7	b∖dgn∖r07.dgn				AUTHORISED:	A.S.C.	DATE:	MAR 2014		

	0	TOWN PLANNERS CIVIL ENGINEERS SURVEYORS	
		Project Managers	•
2	۰	Urban Designers	WATSONS
	0	Structural Engineers	URBAN DEVELOPMENT CONSULTANTS & MANAGERS

ABN 47 637 509 613

HUME CITY COUNCIL	PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7B R 07
GRAND BOULEVARD	REVISION E
CROSS SECTIONS	SHEET 7 OF 27



	1 in 6	1 in 40	1-in 12 c		1 in -30 1 in -30	15	1 in 40	
			12.5		1 in -30	1 in 13		
Datum249.00								
DESIGN RL's	250.834	250.484	250.419	250.195 250.195 250.085	250.325	250.085 250.045 250.195	250.449 250.486 250.488 250.498	251.198
EX.SURFACE	250.436	250.487	250.548	250.616 250.618 250.627	250.800	250.974 250.981 250.985	251.076 251.112 251.114 251.121	251.221
OFFSET	-15.100	-13.000	-10.450	-7.650 -7.540 -7.200	0.000	7.200 7.500 7.650	11.450 12.950 13.000 13.300	17.500

Chainage 260.56

	1 in 6	:-					1 in 6	
		1 in 12.5	1	in -30	1 in -30	1 in 15	1 in 40	
Datum248.00								
DESIGN RL's	250.701	250.287	250.063 250.063 249.953	250.193		249.953 249.913 250.063	250.316 250.354 250.355 250.365	250.982
EX.SURFACE	250.360	250.461	250.514 250.516 250.522	250.659		250.796 250.802 250.804	250.877 250.905 250.906 250.912	250.982
OFFSET	-15.100 -13.000 -12.950	057.	-7.650 -7.540 -7.200	0.000		7.200	11.450 12.950 13.300	17.000
		1	1 1	<u> </u>	Chainage 234.06			

	1 in 6	1 :- / 0				1 in 6	
		1 in 12.5	1 in -30	1 in -3(1 in 15	1 in 40	
Datum249.00							
DESIGN RL's	250.799	250.447	250.160 250.160 250.050	250.290	250.050 250.010 250.160	250.414 250.451 250.453 250.463	251.163
EX.SURFACE	250.415	250.467	250.595 250.598 250.606	250.779	250.953 250.960 250.964	251.050 251.078 251.079 251.085	251.165
OFFSET	-15.100	-12.950	-7.650 -7.540 -7.200	0.000	7.200	11.450 12.950 13.300	17.500
				Chainage 253	3.56		

1 in 15 1 in 40 __1_in_40-----1_in_12_5 1 in -30 1 in -30 Datum248.00 -13.000 250.384 250.336 -12.950 250.385 250.334 DESIGN RL's EX.SURFACE OFFSET

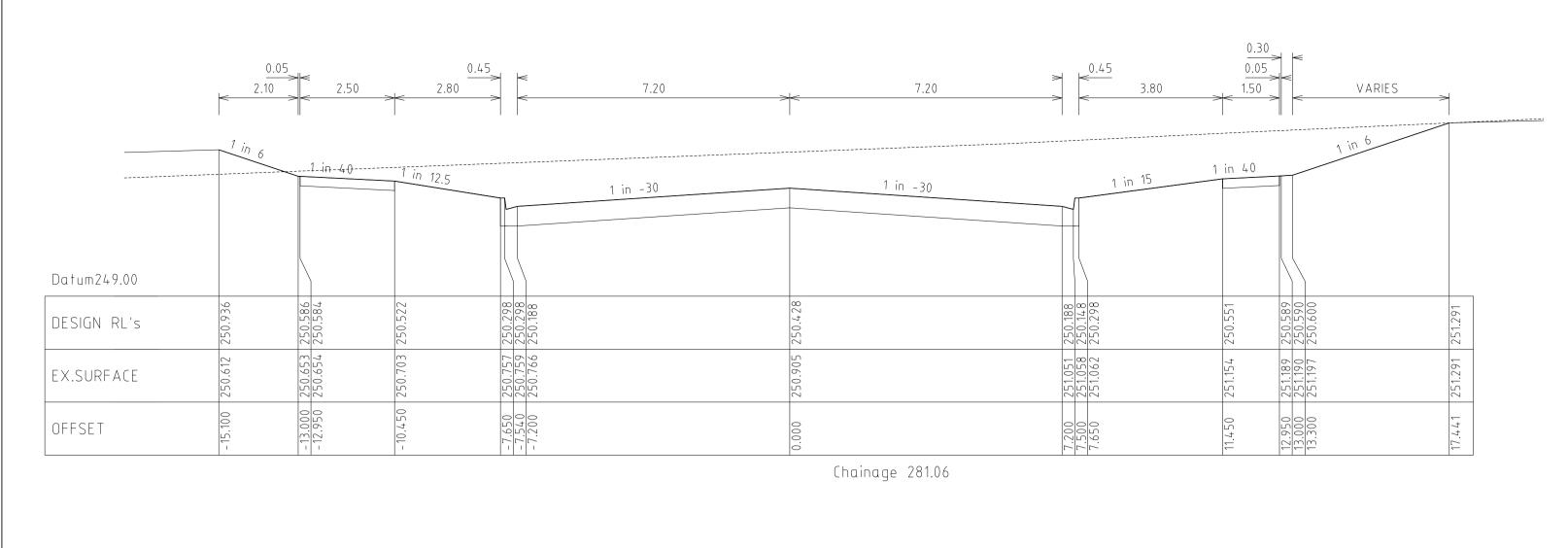
	1 in 6	1_in_40-				4 in 1	1 in 40	6
			In 12.5	1 in	-30	1 in -30		
Datum249.00								
ESIGN RL's	250.766	250.416 250.414	250.352	250.128 250.128 250.018	250.258	250.018 249.978 250.128	250.381 250.419 250.420 250.430	251.104
X.SURFACE	250.397	250.448	250.509	250.576 250.579 250.587	250.761	250.911 250.917 250.920	250.992 251.020 251.027 251.027	251.104
FFSET	-15.100	-13.000	-10.450	-7.650 -7.540 -7.200	0.00	7.200	11.450 12.950 13.300	17.341

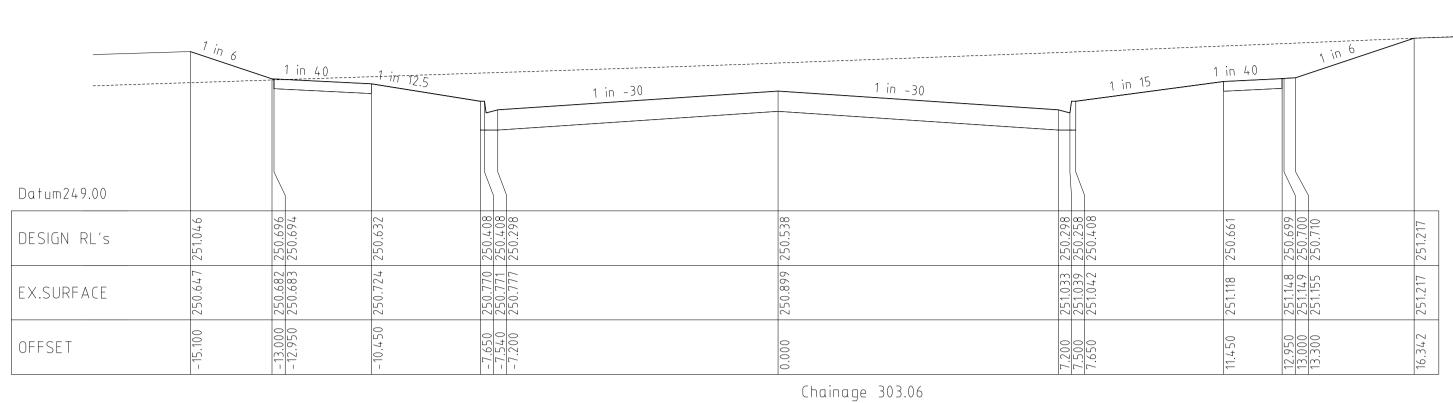
Chainage 231.06 Chainage 247.06

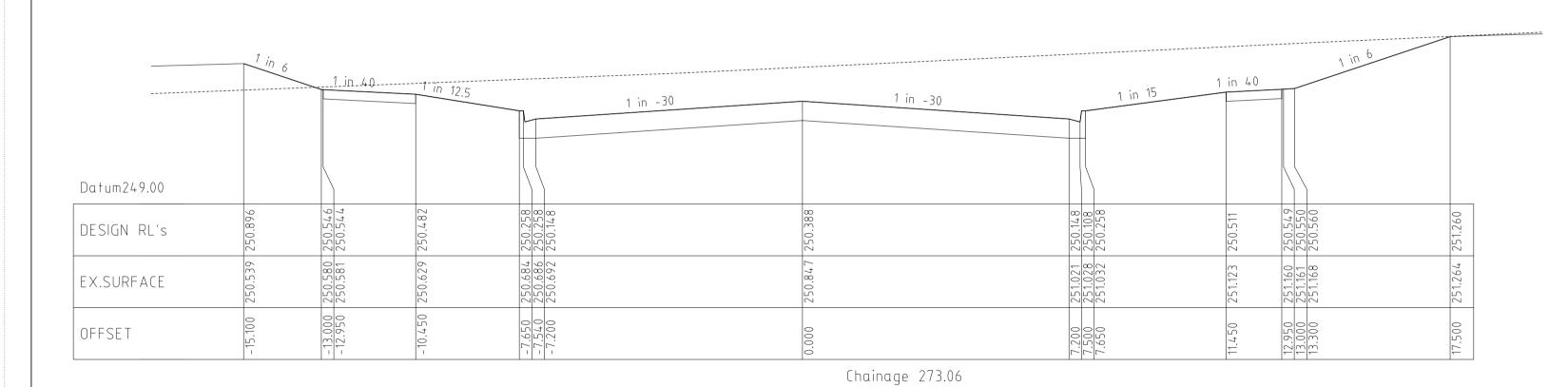
			D BU		·	ARD ONS	
HORIZ	1	0	7	<u>}</u>		4	6 m
VERT.	0. 5	0		1		2	3 m
		Horiza	Scale	1 :	100 at	A 1	
		Vert.	Scale	1 :	50 at	A 1	

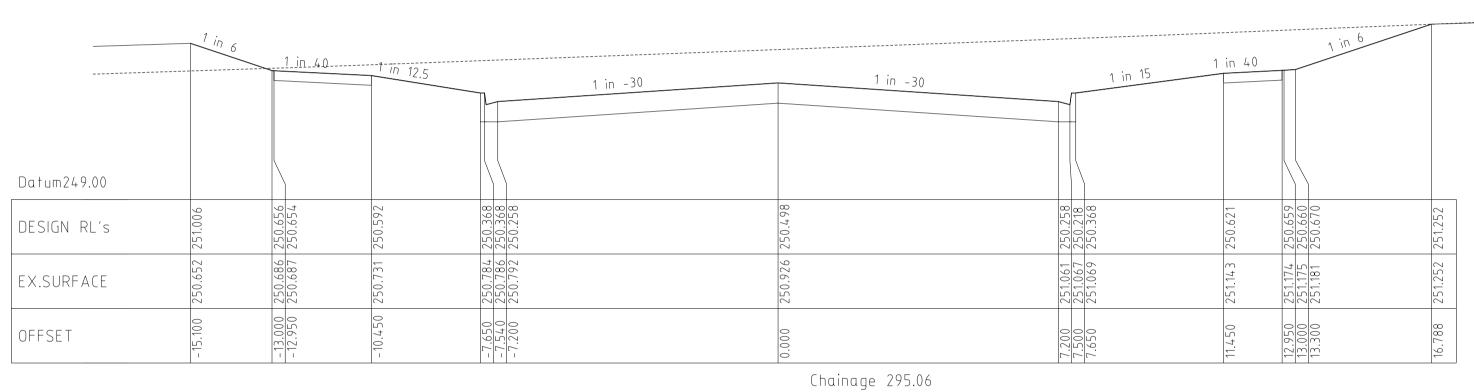
			VERSION DETAILS			SCALE:	AS SHOW	N			
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/20	4	MORNINGTON	• TOWN PLANNERS	
						LEVEL DATA:	Ltopo.dgn		5 Main Street, Phone:(03) 5975 4644	• CIVIL ENGINEERS	
Е	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916	• SURVEYORS	1
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC	DDO IECT N	3/403 /70		MELBOURNE	 Project Managers 	
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B		The Melburnian, Suite 2	Urban Designers	١,/
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	I DEN CE KILAA DA	• Structural Engineers	v
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	Fax:(03) 9697 8099		CON
FILENAME: k:	\36182\36182_7	7b∖dgn∖r08.dgn				AUTHORISED:	A.S.C.	DATE: MAR 2014			

	HUME CITY COUNCIL	PLAN NUMBER
	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7B R08
WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS	GRAND BOULEVARD	REVISION E
ABN 47 637 509 613	CROSS SECTIONS	SHEET 8 OF 27

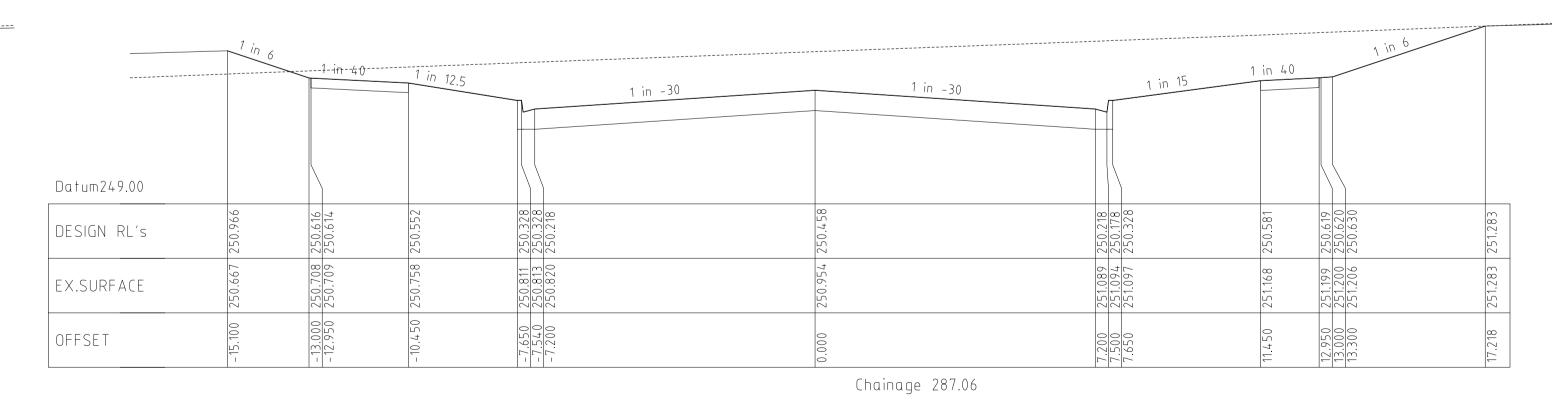








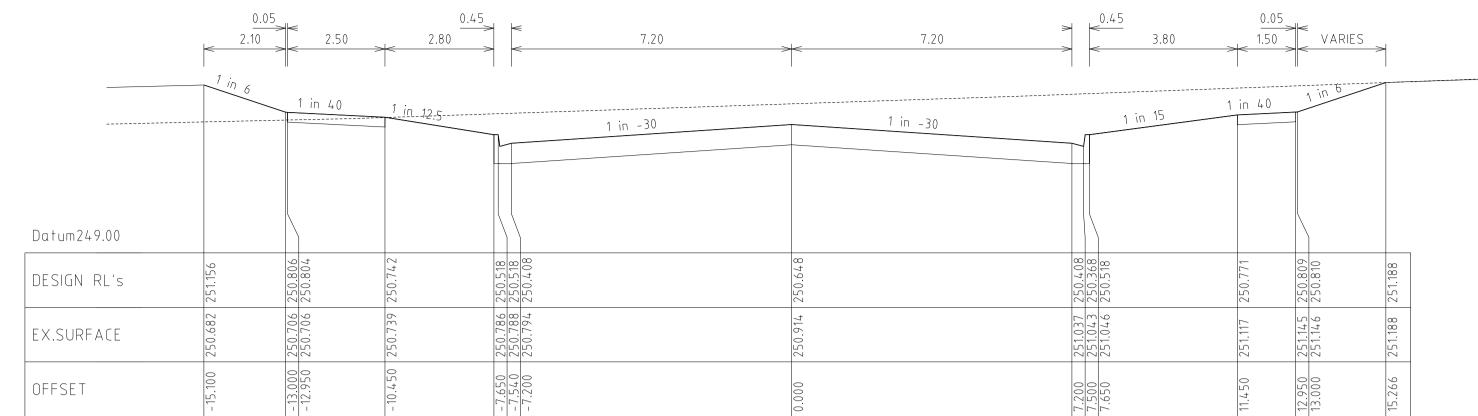
	1 in 6	1 in 40	1-in 12.5		1 in -:		1 in 40	
atum249.00				1 in -30	1 in -:	30		
ESIGN RL's	250.856	250.506	250.442	250.218 250.218 250.108	250.348	250.108 250.068 250.218	250.471 250.509 250.520 250.520	251.220
X.SURFACE	250.466	250.507	250.565	250.633 250.635 250.644	250.817	250.991 250.998 251.002	251.093 251.129 251.13 251.138	251.237
FFSET	-15.100	-13.000	-10.450	-7.650 -7.540 -7.200	0.000	7.200	11.4.50 12.950 13.300	17.500
	'				Chainage 26	55.06		



	GF	RAN[) B(LEVARD	
		ROS	S S	E (TIONS	
HORIZ	1	0	Ź)	4	6 m
VERT.	0. 5	0		1	2	3 m
		Horiza	Scale	1 :	100 at A1	
		Vert.	Scale	1 :	50 at A1	

			VERSION DETAILS			SCALE:	AS SHOW	/N		
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/20	14	MORNINGTON	TOWAL DI ANNIEDO
						LEVEL DATA:	Ltopo.dgr	ı	5 Main Street, Phone:(03) 5975 4644	TOWN PLANNERSCIVIL ENGINEERS
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916	• SURVEYORS
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC				MELBOURNE	 Project Managers
C	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B		The Melburnian, Suite 2	2 • Urhan Desimers
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd. Phone:(03) 9697 8000	 Structural Engineers
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	Fax:(03) 9697 8099	
FILENAME: k	:\36182\36182_7	7b\dgn\r09.dgn				AUTHORISED:	A.S.C.	DATE: MAR 2014		

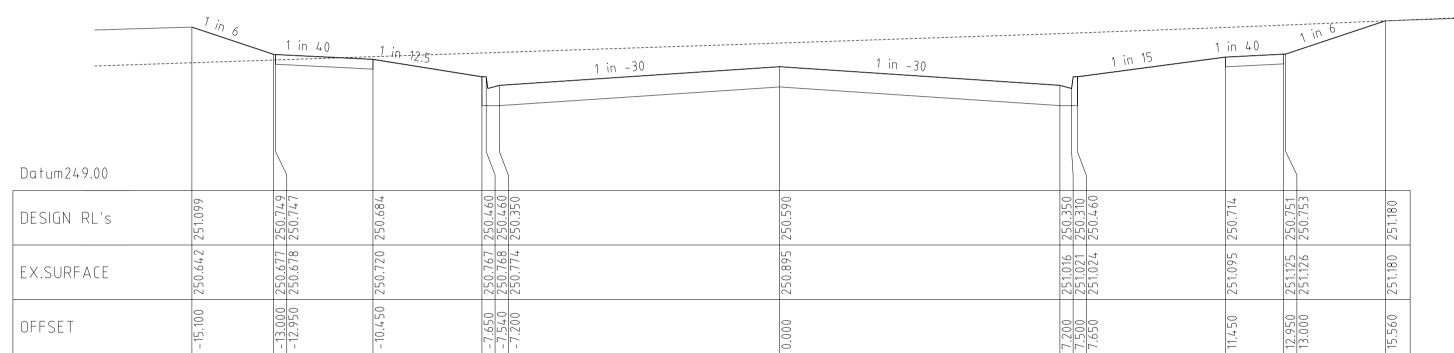
	HUME CITY COUNCIL	PLAN NUMBER
	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7E R 09
WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS	GRAND BOULEVARD	REVISION E
ABN 47 637 509 613	CROSS SECTIONS	SHEET 9 OF 27
-		





		1 in 40	1_in-12:5	1 in -30	1 in -30	1 in 15	1 in 40 1 in 0
atum249.00							
ESIGN RL's	251.236	250.886 250.884	250.822	250.598 250.598 250.488	250.728	250.488 250.448 250.598	250.851 250.889 250.890 751.187
K.SURFACE	250.802	250.826 250.826	250.855	250.887 250.892 250.892	250.974	251.056 251.061 251.063	251.127 251.152 251.153
FSET	-15.100	-13.000	-10.450	-7.650 -7.540 -7.200	0.00.0	7.200 7.500 7.650	11.450 12.950 13.000 13.000

Chainage 341.06



Chainage 313.56

		1 in 40	1_in1 ₂₋₅	1 in -30	1 in -30	1 in 15	1 in 40
atum249.00							
ESIGN RL's	251.231	250.881	250.817	250.593 250.593 250.483	250.723	250.483 250.443 250.593	250.846 250.884 250.885
X.SURFACE	250.793	250.817	250.846	250.878 250.883 250.883	250.965	251.059 251.064 251.067	251.130 251.155 251.156
FFSET	5.100	3.000	0.450	.200	000	0000	450

Chainage 340.06

		1 in 40	1-in-12:5			1 in -30	1 in 15	1 in 40	
				1 11	-30	- 111 - 30			
Datum249.00									
DECICN DL'-	976	726	662	4438 4438 328	268		288 288 438	691	735 735 192
DESIGN RL's	251.(250.	250.	250. 250. 250.	250.		250. 250. 250.	250.	250.73
X.SURFACE	779	678	.720	766	.892		013 018 021	099	135
	250.	250.	250.	250. 250. 250.	250		251. 251. 251.	251.	251.13
)FFSET	100	0000	7450	200	00		0000	50 50	28 74
JII JE I	15-	-12.	-10.	7-7-	00.00		7.50	11.4	13.128

Chainage 309.06

	1 in 6	1 in 40	1 in 12 a			·	1 in 40 1 in	
				1 in -	1 in -30	1 in 15		
Datum249.00								
DESIGN RL's	251.169	250.819	250.754	250.530 250.530 250.420	250.660	250.420 250.380 250.530	250.784 250.821 250.823	251.192
EX.SURFACE	250.700	250.724	250.753	250.790 250.792 250.798	250.919	251.042 251.048 251.050	251.121 251.149 251.150	251.192
OFFSET	-15.100	-13.000	-10.450	-7.540 -7.200	0.000	7.200	11.450 12.950 13.000	15.213

Chainage 327.56

	G	RAN[BOUI	LEVARD	
		ROS	S SEC	TIONS	_
HORIZ	1	0	2	4	6 m
VERT.	0. 5	0	1	2	3 m
			Scale 1 :		

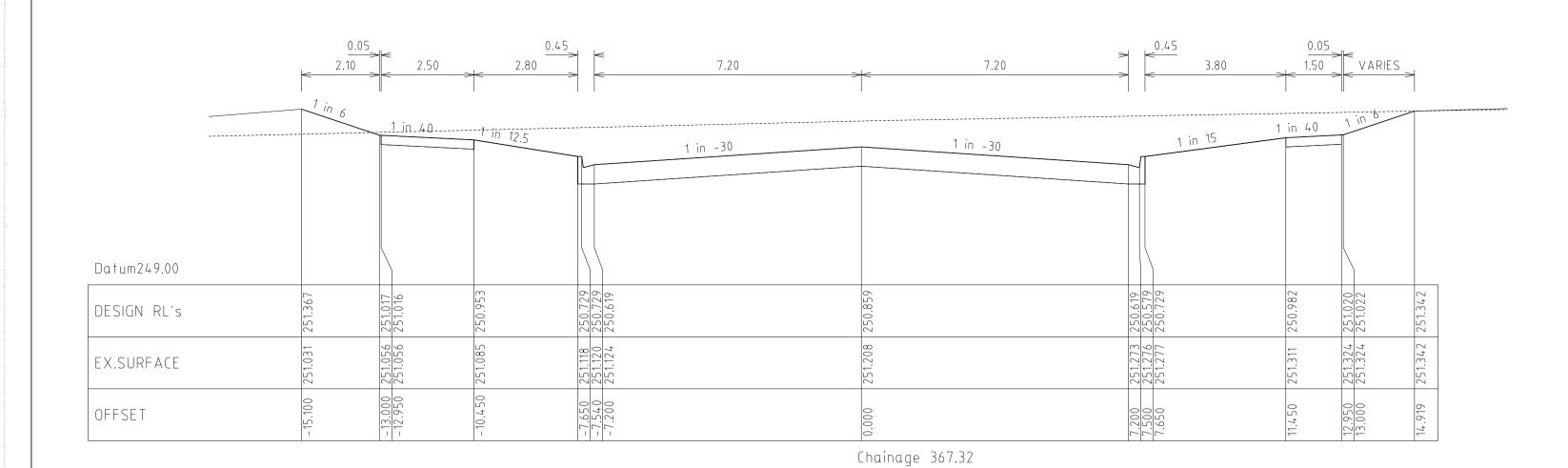
			VERSION DETAILS	SCALE:	AS SHOW	N				
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/201	14	MORNINGTON	TOWN DIANNE
						LEVEL DATA:	Ltopo.dgn		5 Main Street, Phone:(03) 5975 4644	TOWN PLANNECIVIL ENGINEE
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916	SURVEYORS
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC		36182/7B		 MELBOURNE	• Project Manag
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/75		The Melburnian, Suite 2	
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd. Phone:(03) 9697 8000	• Structural E
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014		
FILENAME: k	FILENAME: k:\36182\36182_7b\dgn\r10.dgn							DATE: MAR 2014		

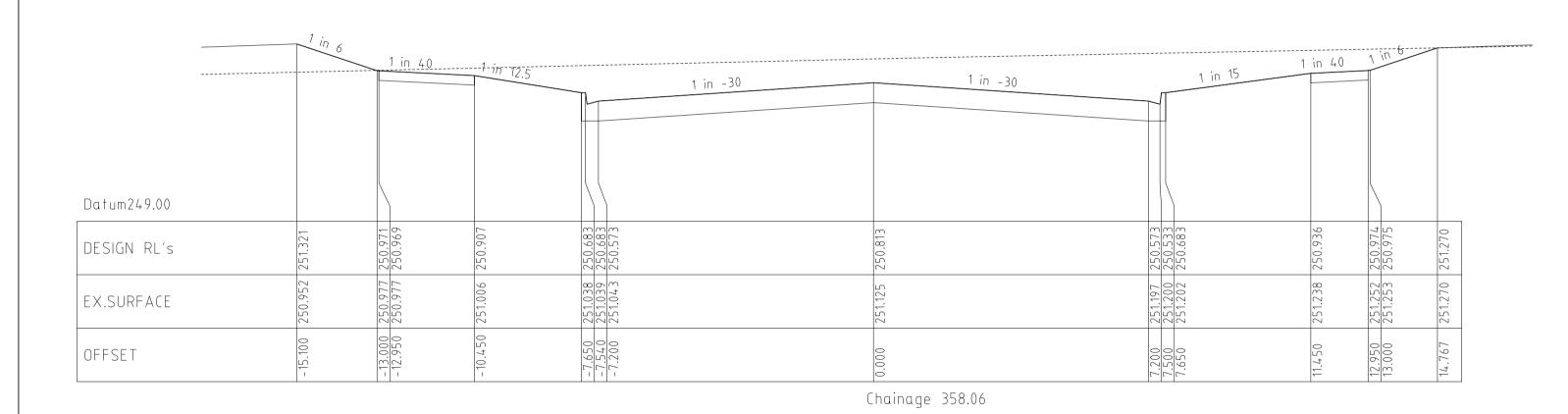
MORNINGTON 5 Main Street, Phone:(03) 5975 4644 Fax:(03) 5975 3916	o	TOWN PLANNERS CIVIL ENGINEERS SURVEYORS	
MELBOURNE The Melburnian, Suite 2 250 St. Kilda Rd. Phone:(03) 9697 8000 Fax:(03) 9697 8099	0	Project Managers Urban Designers Structural Engineers	WATS URBAN DEVEL CONSULTANTS &

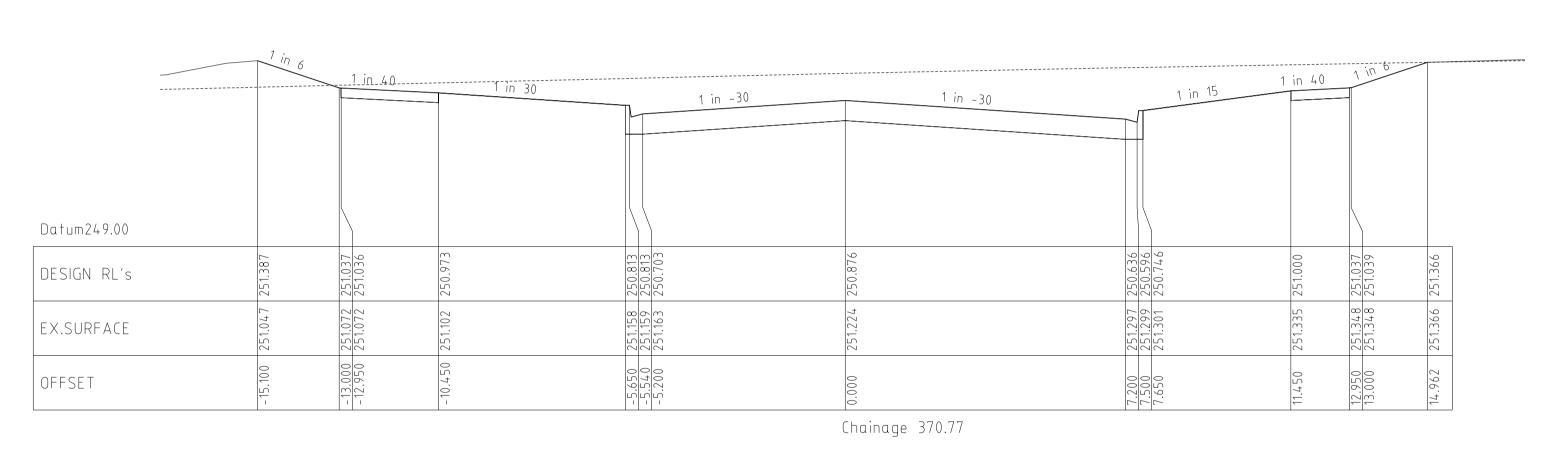
	HUME CITY COUNCIL
	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM
TSONS N DEVELOPMENT ANTS & MANAGERS 47 637 509 613	GRAND BOULEVARD CROSS SECTIONS

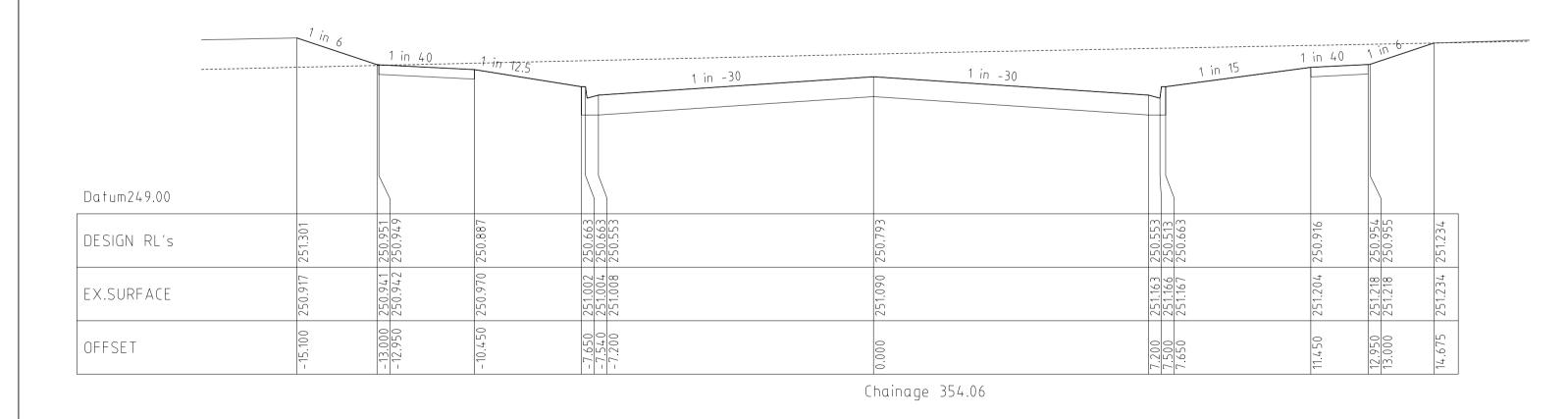
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7B R 10
GRAND BOULEVARD	revision E
CROSS SECTIONS	SHEET 10 OF 27

PLAN NUMBER









	6	1 in 40	1-in 23.32	2 1 in -3	0 1 in -30	1 in 15	1 in 40 1 in 6
atum249.00							
ESIGN RL's	251.416	251.066 251.064	251.001	250.803 250.803 250.693	250.873	250.633 250.593 250.743	250.996 251.034 251.035 251.351
(.SURFACE	251.044	251.068	251.098	251.152 251.154 251.158	251.221	251.292 251.295 251.296 251.296	251.330 251.343 251.344 251.341
FSET	-15.100	-13.000	-10.450	-5.833 -5.723 -5.383	0.00	7.200	11.450
	l		l		Chainage 370.06		

	G F	RAN[) В	U C	LEV	ARD	
		ROS	S S	E (TI	0 N S	
HORIZ	1	0		<u>?</u>		4	6 m
VERT.	0. 5	0		1		2	3 m
		Horiz	Scale	1 :	100 at	A 1	
		Vert.	Scale	1 :	50 at	A 1	

	SCALE:	AS SHOW	/N								
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/20	14		MORNINGTON	TOUAL DI ANNIEDO
						LEVEL DATA:	Ltopo.dgr	ı		5 Main Street, Phone:(03) 5975 4644	TOWN PLANNERSCIVIL ENGINEERS
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD			Fax:(03) 5975 3916	• SURVEYORS
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC		36182/7B		MELBOURNE	 Project Managers 	
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:					Urban Designers
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN: C.M.B. DATE: MAR 2014 DESIGNED: Z.W.L. DATE: MAR 2014		1 3EV C+ Kilda D4	• Structural Engineers		
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC			Fax:(03) 9697 8099			
FILENAME: k:\36182\36182_7b\dgn\r11.dgn							A.S.C.	DATE:	MAR 2014		

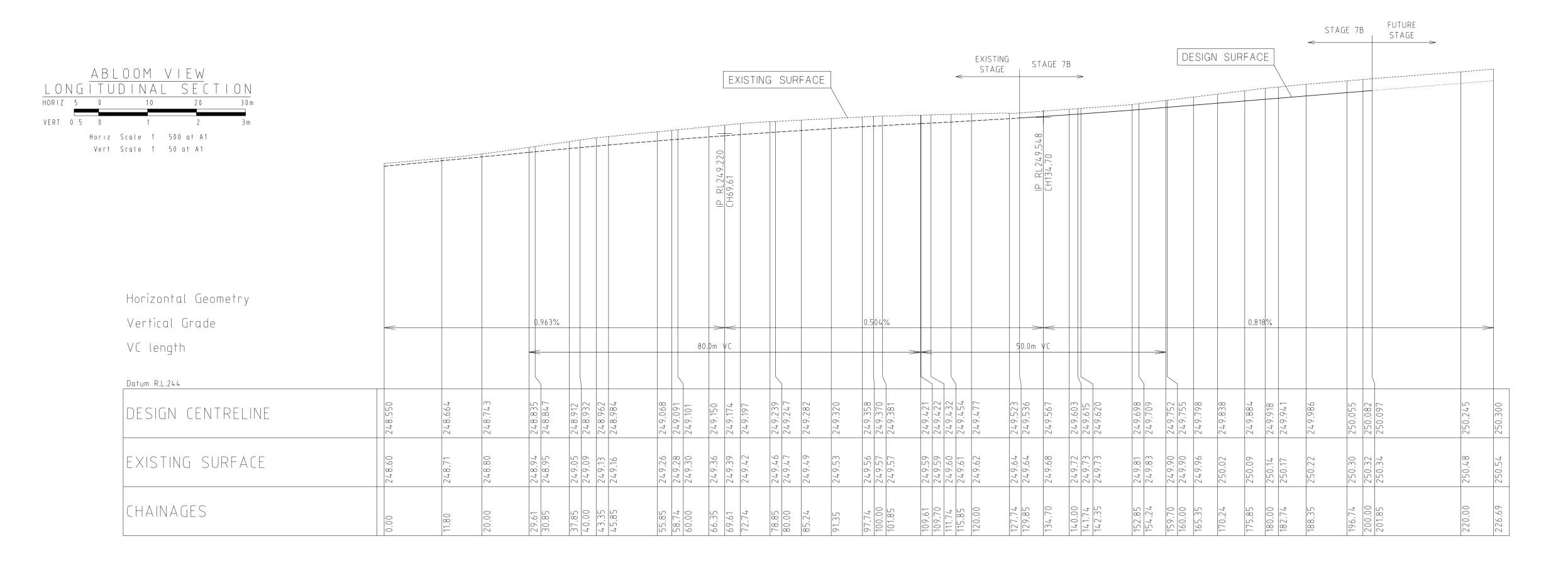
			HUME CITY COUNCIL
MORNINGTON 5 Main Street, Phone:(03) 5975 4644 Fax:(03) 5975 3916	TOWN PLANNERS CIVIL ENGINEERS SURVEYORS		VILLAWOOD PROPERTIES P/L TRILLIUM – STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM
MELBOURNE	 Project Managers 	•	THEREEITH
The Melburnian, Suite 2 250 St. Kilda Rd. Phone:(03) 9697 8000 Fax:(03) 9697 8099	 Urban Designers Structural Engineers	WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 509 613	GRAND BOULEVARD CROSS SECTIONS

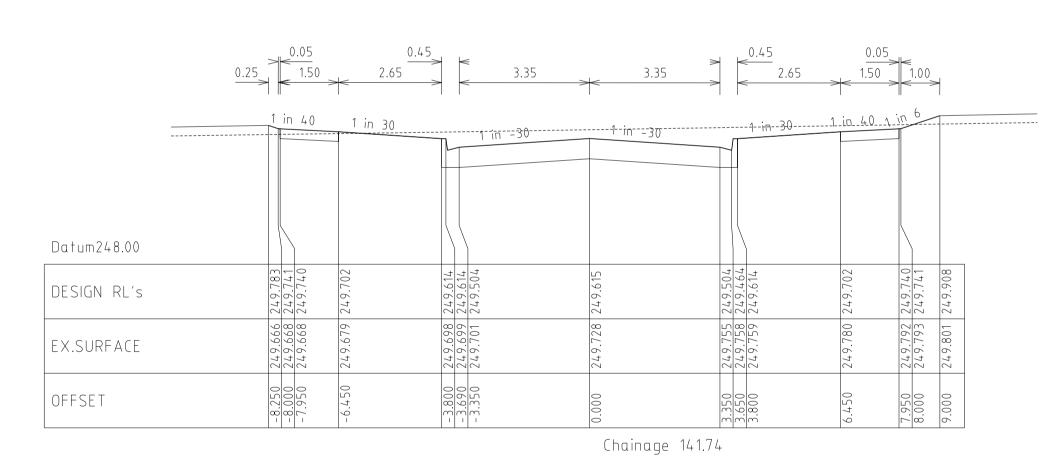
PLAN NUMBER

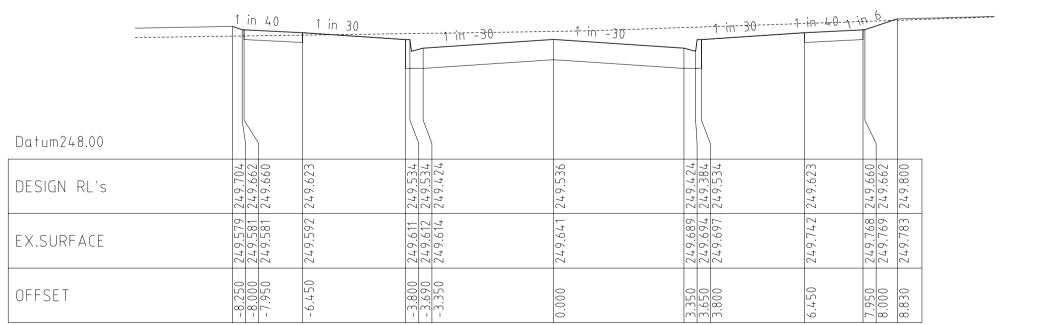
36182/7B

REVISION

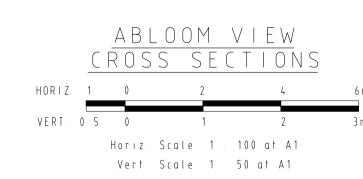
SHEET 11 OF 27







Chainage 129.85



	1 in 40	1 in 30	1-1n30-	1-in37		1_in4_0_	1-in 6
Datum248.00							
DESIGN RL's	249.865 249.824 249.824	249.784	249.696 249.696 249.586	249.698	249.586 249.546 249.696	249.784	249.822 249.824 249.990
EX.SURFACE	249.756 249.758 249.758	249.766	249.782 249.783 249.786	249.813	249.841 249.844 249.845	249.867	249.879 249.880 249.888
OFFSET	-8.250 -8.000 -7.950	-6.450	-3.800 -3.690 -3.350	0.000	3.350 3.650 3.800	6.450	7.950 8.000 9.000
				Chainag	je 152.85		<u> </u>

	1 in 40 1 in 30	1-in301-ir	n3g	1 in 40 1 in 6
Datum248.00				
DESIGN RL's	249.787 249.746 249.744 249.706	249.618 249.508 249.508	249.508 249.468 249.618	249.706 249.744 249.746 249.746
EX.SURFACE	249.671 249.673 249.673 249.684	249.702 249.703 249.706 249.733	249.760 249.762 249.763	249.785 249.797 249.797 249.805
OFFSET	-8.250 -8.000 -7.950 -6.450	-3.800 -3.690 -3.350 0.000	3.350 3.850 3.800	6.450

Structural Engineers

Chainage 1	142.35
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WATSONS

URBAN DEVELOPMENT

CONSULTANTS & MANAGERS

ABN 47 637 509 613

HUME CITY COUNCIL

VILLAWOOD PROPERTIES P/L

TRILLIUM - STAGE 7B

535 MOUNT RIDLEY ROAD

MICKLEHAM

ABLOOM VIEW

LONGITUDINAL & CROSS SECTIONS

PLAN NUMBER

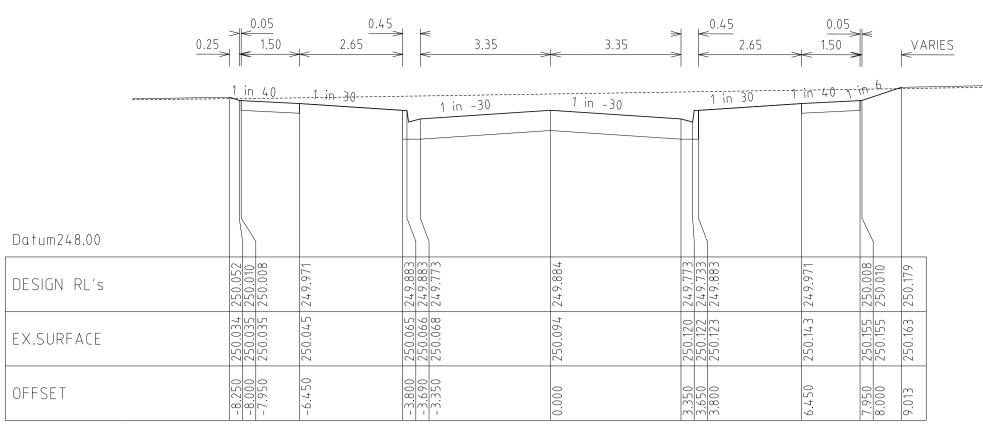
36182/7B

R 12

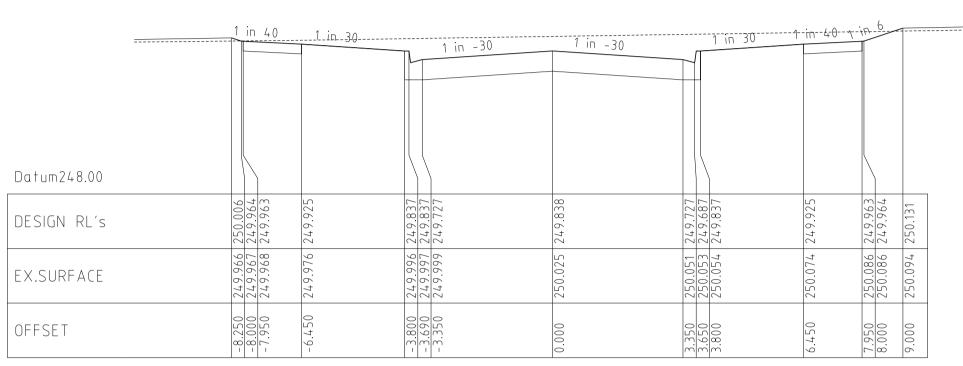
REVISION _

SHEET 12 OF 27

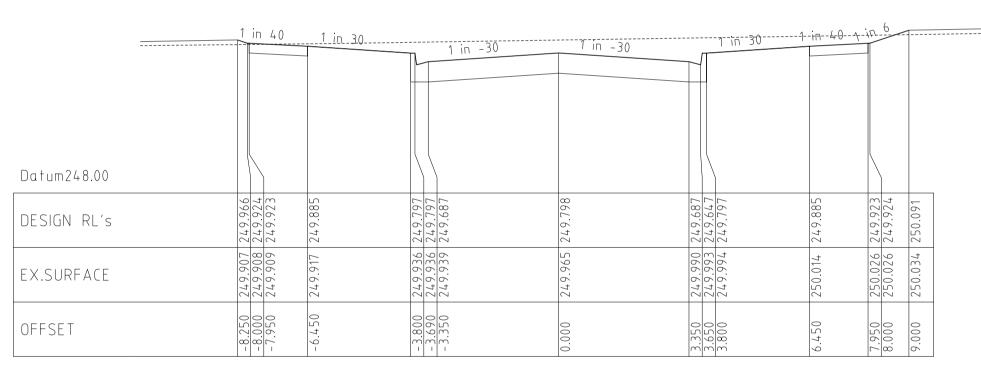
			VERSION DETAILS			SCALE:	AS SHOW	N			
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/20	14		MORNINGTON	TOUAL DI ANNIEDO
						LEVEL DATA:	Ltopo.dgn			5 Main Street, Phone:(03) 5975 4644	TOWN PLANNERSCIVIL ENGINEERS
Е	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD				• SURVEYORS
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC					MELBOURNE	- Deciest Managens
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B			The Melburnian, Suite 2	Project ManagersUrhan Designers
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE:	MAR 2014	1 750 St Kilda Da	 Structural Engineers
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE:	MAR 2014	Fax:(03) 9697 8099	
FILENAME: k:	\36182\36182 <u>_</u> 7	b∖dgn∖r12.dgn				AUTHORISED:	A.S.C.	DATE:	MAR 2014		



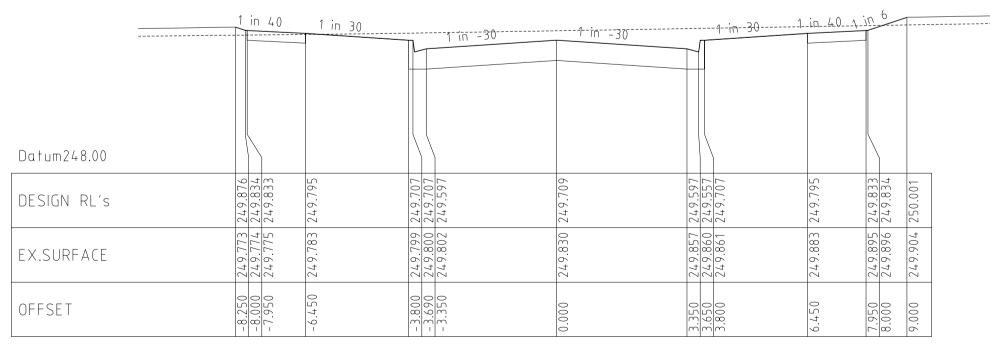
Chainage 175.85



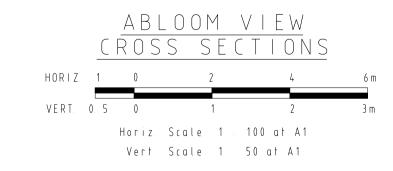
Chainage 170.24



Chainage 165.35

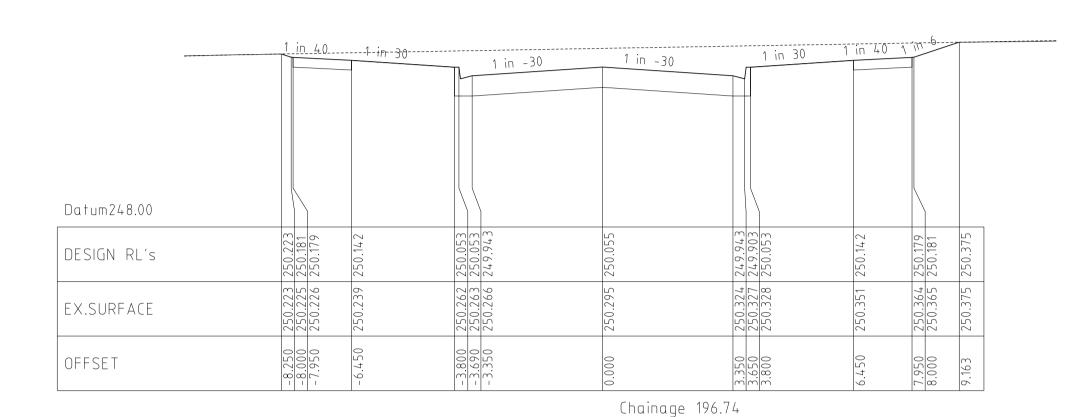


Chainage 154.24



	4.4						
	1_!n_40	1-in-30	1 in -30	1 in -30	1 in 30 1	in 40 1	m-6
Datum249.00							
DESIGN RL's	250.264 250.223 250.221 250.221	250.095 250.095	249.085	250.097	249.945 250.095	.187	250.221 250.223 250.418
EX.SURFACE	250.266 250.269 250.269 250.269	250.305 250.305		250.338	250.371	m	250.407 250.408 250.418
OFFSET	-8.250 -8.000 -7.950	-3.800	-3.350	0000	3.800	6.450	7.950 8.000 9.172

Chainage 201.85



Datum248.00

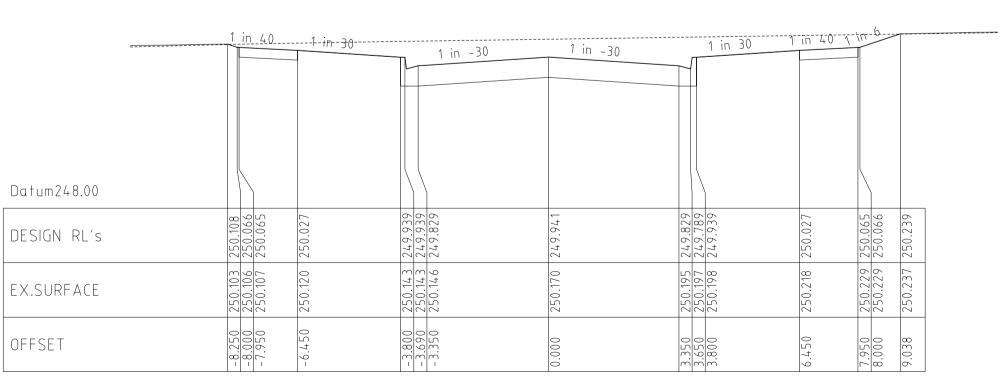
DESIGN RL'S

DESIGN RL'S

DESIGN RL S

DESIG

Chainage 188.35



Chainage 182.74

			VERSION DETAILS			SCALE:	AS SHOWN			HUME CITY COUNCIL	PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/2014	MORNINGTON TOWN DIAM	IFDC AND A	VILLAWOOD PROPERTIES P/L	
						LEVEL DATA:	Ltopo.dgn	5 Main Street, • TOWN PLAN Phone:(03) 5975 4644 • CIVIL ENGINE	ERS ERS		36182/7B
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD	Fax:(03) 5975 3916 • SURVEYORS		535 MOUNT RIDLEY ROAD	R 13
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC	DD0/56T N	2/400 /70	_ MELBOURNE		MICKLEHAM	() (
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B	MELBOURNE • Project Mar — The Melburnian, Suite 2 • Urban Desig	ners WATSONS		
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAR 2014	250 St. Kilda Rd. Phone:(03) 9697 8000 • Structural	11/1100110	ABLOOM VIEW	revision E
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L. DATE: MAR 2014	Fax:(03) 9697 8099	CONSULTANTS & MANAGERS	CROSS SECTIONS	
FILENAME: k:	\36182\36182 <u>_</u> 7	b∖dgn∖r13.dgn		·		AUTHORISED:	A.S.C. DATE: MAR 2014	1	ABN 47 637 509 613	CN033 SECTIONS	SHEET 13 OF 27

			VERSION DETAILS			SCALE:	AS SHOV	٧N			
ISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/20	114	MORNINGTON	TOURS DUANISTIC	
						LEVEL DATA:	Ltopo.dgr	١	5 Main Street, Phone:(03) 5975 4644	TOWN PLANNERSCIVIL ENGINEERS	
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916	• SURVEYORS	١
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC	DD0 IEST N	3/403 /75		MELBOURNE	 Project Managers 	
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7E	3	The Melburnian, Suite 2	Urban Designers	١.
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd. Phone:(03) 9697 8000	 Structural Engineers 	V
A	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014			(01
AME: k:	\36182\36182 <u>_</u>	7b\dgn\r14.dgn		,		AUTHORISED:	A.S.C.	DATE: MAR 2014	 ·		

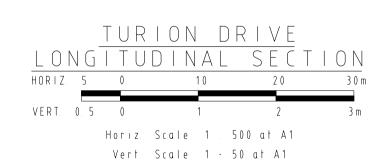
WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS	
ABN 47 637 509 613	

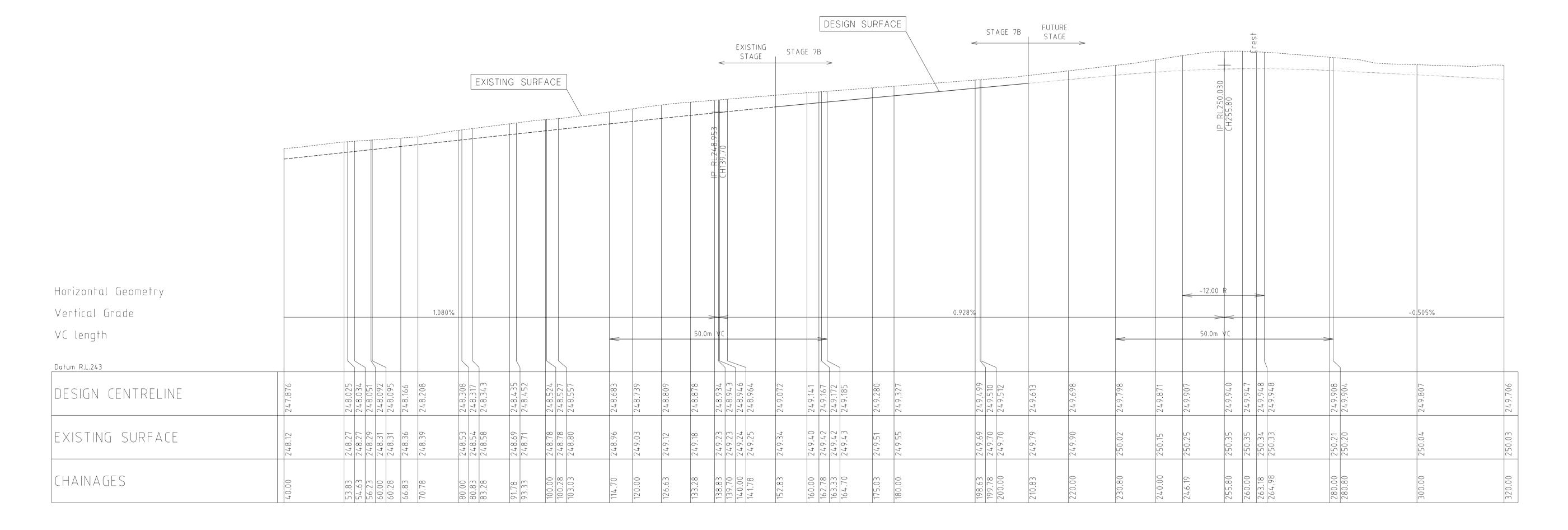
LONGITUDINAL SECTION SHEET 14 OF 27

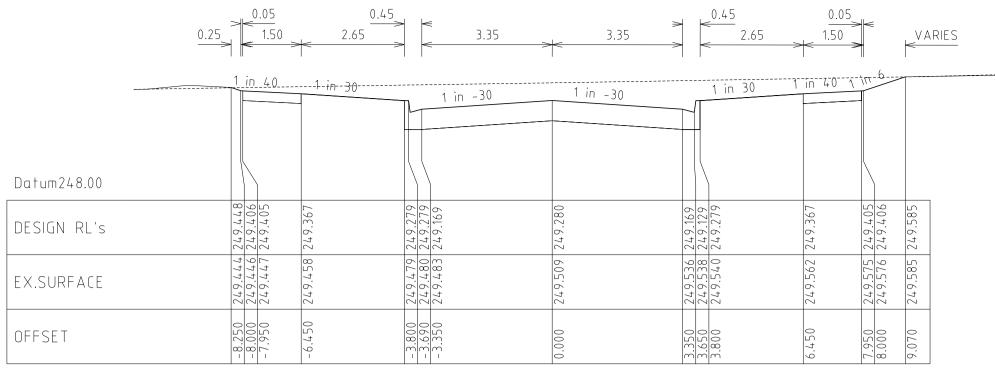
WATSONS

WATSONS	
URBAN DEVELOPMENT	1

HUME CITY COUNCIL	PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7B R14
TURION DRIVE	revision [



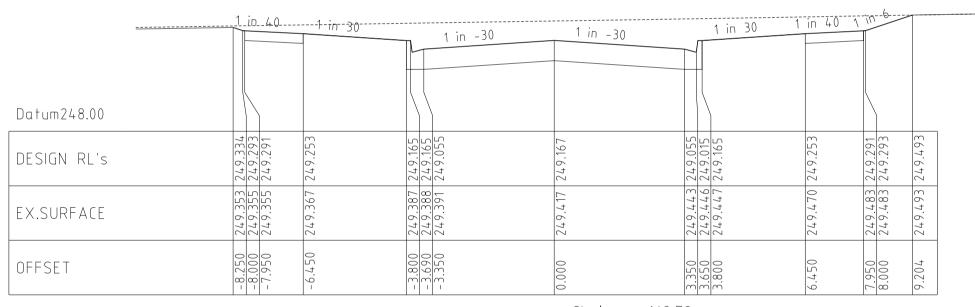




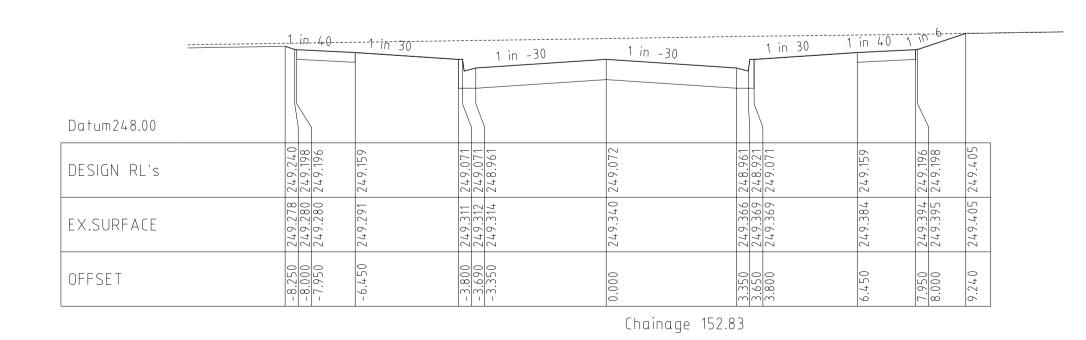
Chainage 175.03

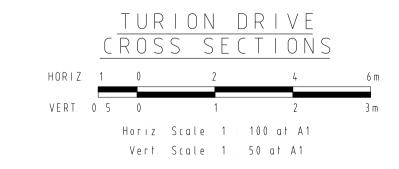
	1_io401-in-30			 1 in 30	1 in 40	170-6
		1 in -30	1 in -30	1 111 30		
Datum248.00						
DESIGN RL's	249.339 249.298 249.296 249.259	249.170 249.170 249.060	249.172	249.060 249.020 249.170	249.259	249.296 249.298 249.497
EX.SURFACE	249.357 249.359 249.359 249.371	249.391 249.392 249.395	249.421	249.447 249.450 249.451	249.474	249.487 249.487 249.497
OFFSET	-8.250 -8.000 -7.950 -6.450	-3.800 -3.690 -3.350	0.000	3.800	6.450	7.950 8.000 9.198

Chainage 163.33



Chainage 162.78





	1 in 40	1_in30		1 in -30	1 in -30		1 in 30	1-in40- <u>-</u> -	in-6-	
Datum248.00										
DESIGN RL's	249.780 249.739 249.737	249.699	249.611	249.501	249.613	249.501	249.461	249.699	249.737	∞
EX.SURFACE	249.728 249.730 249.731	249.743	249.764		249.793		249.827 249.827	249.850	249.862	249.869
DFFSET	-8.250 -8.000 -7.950	-6.450	-3.800	-3.350	0.00.0	3.350	3.800	9:450	7.950	8.785
					Chainaae 210.8	3				

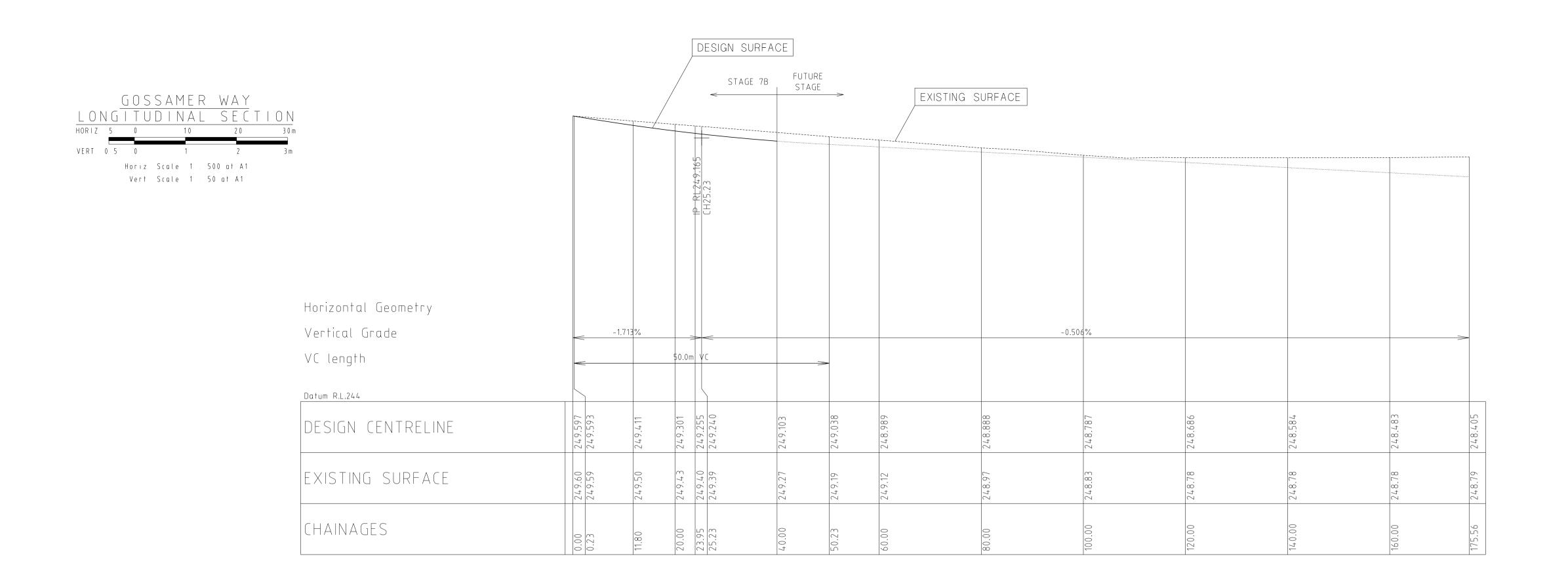
Chainage 210.83

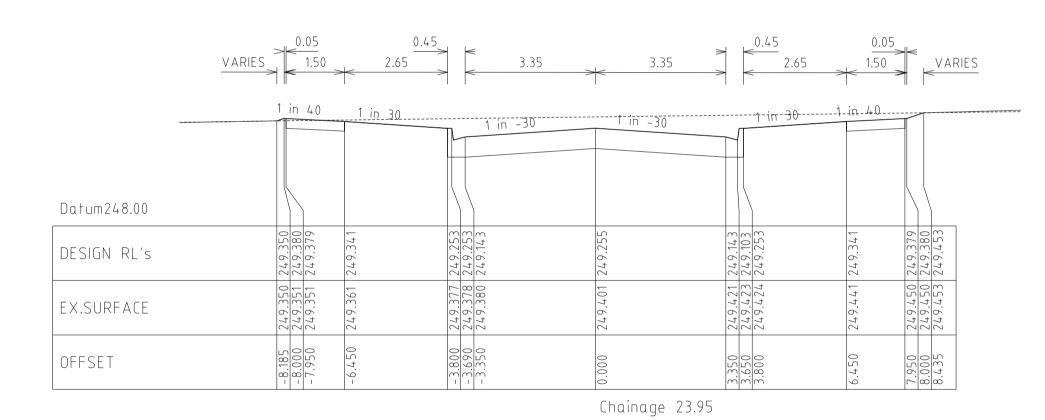
	1 in 40 1	1_in_30	1 in -30	1 in -30	1-in-301-	in-4-0-7-in-9)
Datum248.00							
DESIGN RL's	249.678 249.636 249.634 249.597	249.508 249.508	249.398	01 C. 7 + 7	249.398 249.358 249.508	249.597	49.6
EX.SURFACE	249.623 249.625 249.625 249.639	249.663	249.667	0	249.121 249.730 249.732	249.756	49.77
OFFSET	-8.250 -8.000 -7.950	-3.800	-3.350		3.800	0.450	8.000

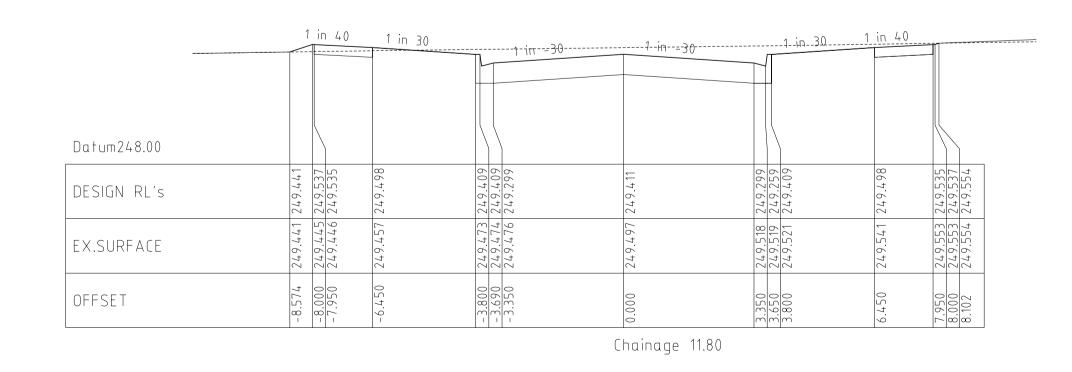
Chainage 199.78

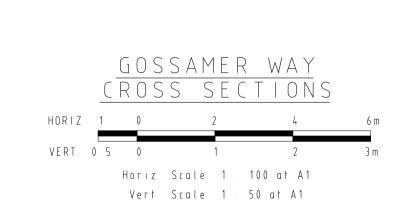
	1 in 40 1 in 30-	1 in -30	1 in -30	1 in 30	1-in40	
Datum248.00						
DESIGN RL's	249.667 249.625 249.624 249.586	249.498 249.498 249.388	249.499	249.388 249.498	249.586	249.624 249.625 249.769
EX.SURFACE	249.614 249.616 249.617 249.630	249.654 249.655 249.658	249.688	249.719 249.721 249.723	249.747	249.761 249.761 249.769
OFFSET	-8.250 -8.000 -7.950 -6.450	-3.800 -3.690 -3.350	000.0	3.350 3.800 3.800	6.450	7.950 8.000 8.864
			Chainage	198.63		

						_					
			VERSION DETAILS			SCALE:	AS SHOWN			HUME CITY COUNCIL	PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/2014	MORNINGTON TOWAR BLANNEDS		VILLAWOOD PROPERTIES P/L	
						LEVEL DATA:	L†opo.dgn	5 Main Street, • TOWN PLANNERS Phone:(03) 5975 4644 • CIVIL ENGINEERS		TRILLIUM - STAGE 7B	36182/7B
Е	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD	Fax:(03) 5975 3916 • SURVEYORS		535 MOUNT RIDLEY ROAD	R 15
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B	MELBOURNE		MICKLEHAM	
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:		The Melburnian, Suite 2 . Urban Designers	WATSONS		
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAR 2014	250 St. Kilda Rd. • Structural Engineers	URBAN DEVELOPMENT	TURION DRIVE	revision [
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L. DATE: MAR 2014	Fax:(03) 9697 8099	CONSULTANTS & MANAGERS	CROSS SECTIONS	
FILENAME: k:	\36182\36182_7t	b\dgn\r15.dgn				AUTHORISED:	A.S.C. DATE: MAR 2014		ABN 47 637 509 613	CN033 SECTIONS	SHEET 15 OF 27





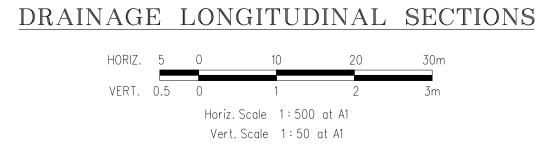




	1 in 40 1	in_301 in -30	1 in -30		1-ip4+0	
Datum248.00						
DESIGN RL's	249.227 249.227 249.189	249.101 249.101 248.991	249.103	248.991 248.951 249.101	249.189	249.227 249.228 249.326
EX.SURFACE	249.221 249.222 249.232	249.249 249.250 249.252	249.272	249.293 249.295 249.296	249.312	249.322 249.322 249.326
OFFSET	-8.045 -7.950 -6.450	-3.800 -3.690 -3.350	0.000	3.350 3.650 3.800	6.450	7.950 8.000 8.583
		' ' '	Ch = :			1. ∞ ∞

Chainage	40.00

			VERSION DETAILS			SCALE:	AS SHOW	N				HUME CITY COUNCIL	PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/201	14	MORNINGTON	TOWN DIANNEDC		VILLAWOOD PROPERTIES P/L	
						LEVEL DATA:	Ltopo.dgn		5 Main Street, Phone:(03) 5975 4644	TOWN PLANNERSCIVIL ENGINEERS		TRILLIUM - STAGE 7B	36182/7B
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916	SURVEYORS		535 MOUNT RIDLEY ROAD	R 16
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC		34400 (77		MEI BOUDNE	- Daniert Managens		MICKLEHAM	
C	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B		MELBOURNE The Melburnian, Suite	 Project Managers Urban Designers 	WATSONS		
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd. Phone:(03) 9697 8000	Cl1	**/ (0 0	GOSSAMER WAY	revision E
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	Fax:(03) 9697 8099		CONSULTANTS & MANAGERS	LONGITUDINAL & CROSS SECTIONS	
FILENAME: k	:\36182\36182_7t	ı b∖dgn∖r16.dgn				AUTHORISED:	A.S.C.	DATE: MAR 2014	1		ABN 47 637 509 613	LUNUITUDINAL & CRUSS SECTIONS	SHEET 16 OF 27



			VERSION DETAILS			SCALE:	AS SHOV	/N		
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/20	14		MORN
						LEVEL DATA: Ltopo.dgn		dgn		5 Mai Phone
Е	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD			Fax:(0
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC		2/400 /70			MELBI
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7E	1		The N
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE:	MAR 2014	250 S
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE:	MAR 2014	Phone Fax:(0
FILENAME: k	:\36182\36182_	7b\dgn\r17.dgn				AUTHORISED:	A.S.C.	DATE:	MAR 2014	
						ı				1

1 110110.(05) 5775 4044	TOWN CIVIL E SURVE
The Melburnian, Suite 2 .	Project Urban Structi

TOWN PLANNERS
CIVIL ENGINEERS
SURVEYORS

Project Managers
Urban Designers
Structural Engineers
URBAN DEVELOPMENT
CONSULTANTS & MANAGERS

ABN 47 637 509 613

HUME CITY COUNCIL

PLAN NUMBER

VILLAWOOD PROPERTIES P/L

TRILLIUM - STAGE 7B

535 MOUNT RIDLEY ROAD

MICKLEHAM

PLAN NUMBER

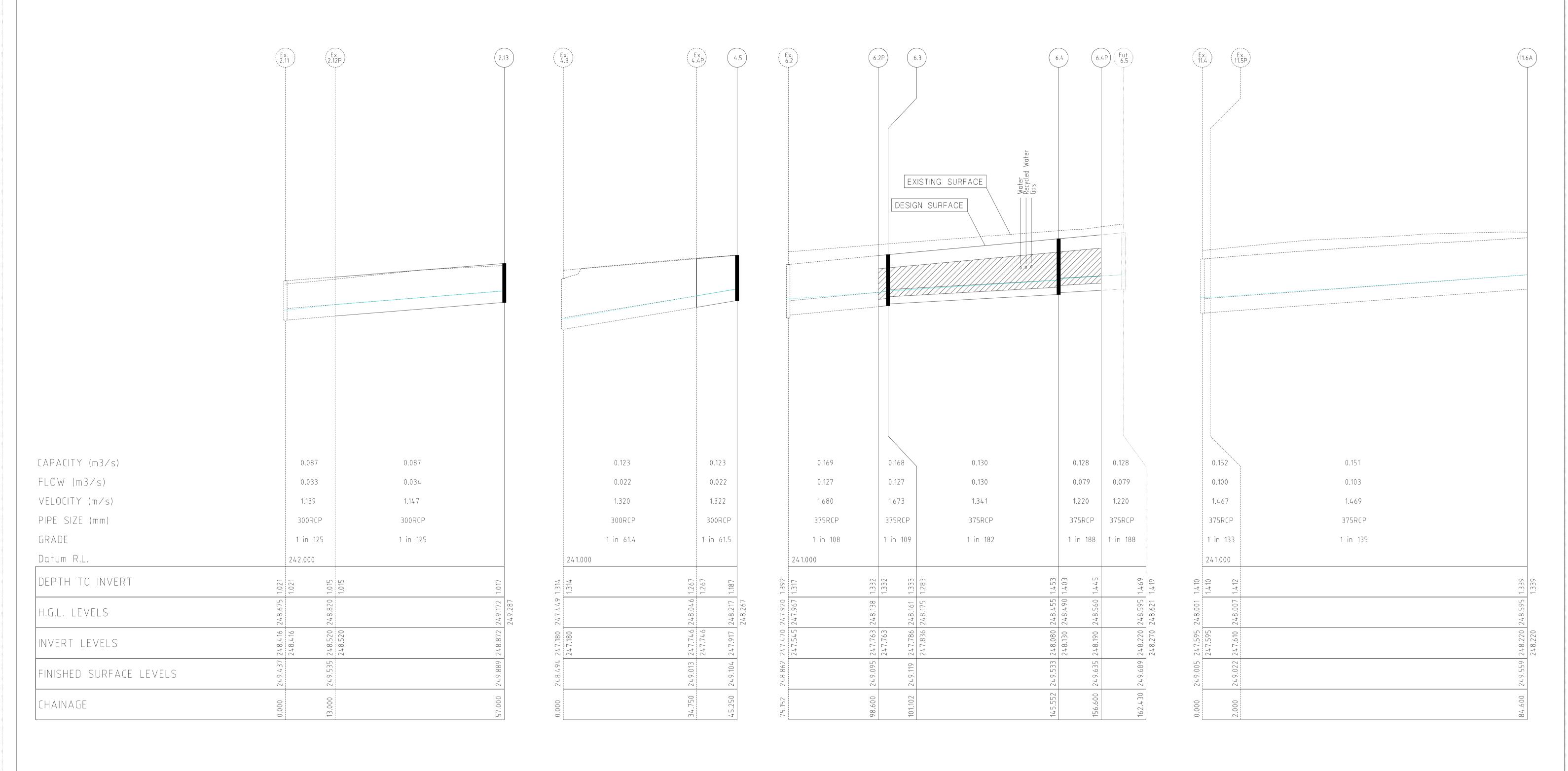
36182/7B

R17

REVISION E

SHEET 17 OF 27

	(Ex.) (MW10P)	(MW11)	MW 12		(MW13)	MW14P
			EXISTING SURFACE			
			DESIGN SURFACE			
CAPACITY (m3/s)	4.344	4.347	4.342	4.549	4.343	
FLOW (m3/s)	4.042	4.098	4.180	4.271	4.289	
VELOCITY (m/s)	3.446	3.452	3.454	3.612	3.458	
PIPE SIZE (mm)	1350RCP	1350RCP	1350RCP	1350RCP	1350RCP	
GRADE	1 in 151	1 in 151	1 in 151	1 in 138	1 in 151	1
Datum R.L.	242.000					
DEPTH TO INVERT	2.479 2.479 2.609 2.609	2.708	2.530		2.269	2.615
H.G.L. LEVELS	248.887	249.271	249.883 2.530 250.014 2.480		250.534	250.787
INVERT LEVELS	247.010 247.010 247.116 247.116	247.445	248.020		248.660	248.830
FINISHED SURFACE LEVELS	249.489	250.153	250.550		250.979	251.445
CHAINAGE	0.000	65.662	145.061		226.349	244.486



DRAINAGE LONGITUDINAL SECTIONS VERT. 0.5 0 Horiz. Scale 1:500 at A1 Vert. Scale 1:50 at A1

		SCALE:	AS SHOW	ΝN					
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/20)14	
						LEVEL DATA:	L†opo.dgr	٦	
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		ī
D	22/09/14	<i>L</i> ₊	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC				_
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7E	3	4
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	4
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	4 1
FILENAME: k	:\36182\36182_	7b∖dgn∖r18.dgn				AUTHORISED:	A.S.C.	DATE: MAR 2014	4

	SCALE:	AS SHOWN	1			
AUTHORISED	DATE PRINTED:	16/12/2014	+			MORNINGT
	LEVEL DATA:	Ltopo.dgn				5 Main St Phone:(03)
ZWL	DATUM:	AHD				Fax:(03) 5
ASC	DDO IECT N	2/102/70				MELBOURN
ASC	PROJECT No.:	36182/7B				The Melbu
ASC	DRAWN:	C.M.B.	DATE:	MAR	2014	250 St. K Phone:(03)
ASC	DESIGNED:	Z.W.L.	DATE:	MAR	2014	Fax:(03) 9
	ALITHODISED.	۸۶۲	DATE.	MAR	201/.	

) 5975 3916 • SURVEYORS Project Managers lelburnian, Suite 2 • Urban Designers



	HUME CITY COUNCIL	PLAN NUMBER
	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7B R 18
WATSONS URBAN DEVELOPMENT DISSULTANTS & MANAGERS	DRAINAGE LONGITUDINAL SECTION	revision E
ABN 47 637 509 613	DRAMAGE LUNGITUDINAL SECTION	SHEET 18 OF 27

CAPACITY (m3/s)

FLOW (m3/s)

VELOCITY (m/s)

PIPE SIZE (mm)

DEPTH TO INVERT

H.G.L. LEVELS

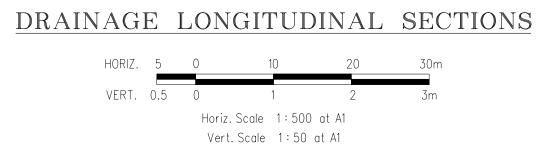
INVERT LEVELS

CHAINAGE

FINISHED SURFACE LEVELS

GRADE

Datum R.L.



0.153

0.103

1.487

375RCP

1 in 131

241.000

EXISTING SURFACE

DESIGN SURFACE

0.073

0.052

1.117

300RCP

1 in 177

0.073

0.052

1.117

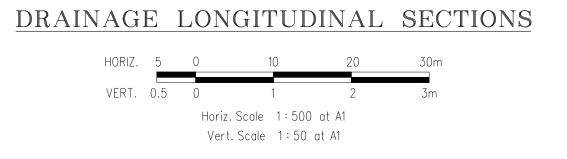
300RCP

1 in 177

		15	0.0					79		
			VERSION DETAILS			SCALE:	AS SHOV	٧N		
REVISION	DATE	SHEETS REVISED	VERSION DETAILS DESCRIPTIONS	STATUS	AUTHORISED	SCALE: DATE PRINTED:	AS SHOW			MORNII
REVISION	DATE	SHEETS REVISED		STATUS	AUTHORISED)14		5 Main
REVISION E	DATE 16/12/14	SHEETS REVISED ALL		AS CONSTRUCTED	AUTHORISED ZWL	DATE PRINTED: LEVEL DATA:	16/12/20 Ltopo.dgr)14		5 Main Phone:(
REVISION E D			DESCRIPTIONS	AS CONSTRUCTED ISSUED FOR CONSTRUCTION		DATE PRINTED: LEVEL DATA: DATUM:	16/12/20 Ltopo.dgr)14		5 Main Phone:(Fax:(03
E	16/12/14	ALL	DESCRIPTIONS -	AS CONSTRUCTED ISSUED FOR CONSTRUCTION	ZWL	DATE PRINTED: LEVEL DATA:	16/12/20 Ltopo.dgr)14		5 Main Phone:(Fax:(03 MELBOU The Me
E D	16/12/14 22/09/14	ALL 4	DESCRIPTIONS - LOT 765 CROSSOVER RELOCATED	AS CONSTRUCTED	ZWL ASC	DATE PRINTED: LEVEL DATA: DATUM:	16/12/20 Ltopo.dgr)14 n	MAR 2014	5 Main Phone:(Fax:(03 MELBOU The Me 250 St
E D C	16/12/14 22/09/14 7/07/14	ALL 4 4, 18, 19, 20 & 22	DESCRIPTIONS - LOT 765 CROSSOVER RELOCATED DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	AS CONSTRUCTED ISSUED FOR CONSTRUCTION ISSUED FOR CONSTRUCTION	ZWL ASC ASC	DATE PRINTED: LEVEL DATA: DATUM: PROJECT No.:	16/12/20 Ltopo.dgr AHD 36182/7E	014 3 DATE:	MAR 2014 MAR 2014	MORNIN 5 Main Phone:(Fax:(03) MELBOU The Me 250 St. Phone:(Fax:(03)

2.2 /		(<u>1</u> 2.3)	(12.4P)		
	0.083	0.075		0.075	
	0.082	0.050		0.052	
	1.336	1.132		1.140	
	300RCP	300RC	P	300RCP	
	1 in 136	1 in 16	8	1 in 168	
242.000					
1.158		1.143	1.040		1095
		249.460 1.	249.656 1.		1 276 972 1
		249.	5 249.		672
248.705		249.160	249.356		249672
7		303 2	396 2		
		250.303	250.396		250.767
		62.000	86.500		139,500

			VERSION DETAILS			SCALE:	AS SHOWN				HUME CITY COUNCIL	PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/2014	MORNINGTON	∘ TOWN PLANNERS		VILLAWOOD PROPERTIES P/L	
						LEVEL DATA:	Ltopo.dgn	J Hulli Sireer,	· CIVIL ENGINEERS		TRILLIUM - STAGE 7B	36182/7
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		• SURVEYORS		535 MOUNT RIDLEY ROAD	R 19
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC		2/400 /70	MELBOURNE •	· Project Managers		MICKLEHAM	
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B	The Melburnian, Suite 2 .	· IIrhan Desianers	WATSONS		
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAR 2014	L OKNICE KITAA DA	 Structural Engineers 	URBAN DEVELOPMENT		revision [
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L. DATE: MAR 2014	Fax:(03) 9697 8099		CONSULTANTS & MANAGERS	DRAINAGE LONGITUDINAL SECTION	
FILENAME: k:\	.36182\36182_7	b∖dgn∖r19.dgn		,		AUTHORISED:	A.S.C. DATE: MAR 2014			ABN 47 637 509 613		SHEET 19 OF 27



			VERSION DETAILS			SCALE:	AS SHO	WN	
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/2	014	1
						LEVEL DATA:	L†opo.dg	n	
Е	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		'F
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC				
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7	В	
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2	014 2
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2	014 F
	\36182\36182_ <i>'</i>	7b\dgn\r20.dgn		1	1	AUTHORISED:	A.S.C.	DATE: MAR 2	014

MORNINGTON 5 Main Street, Phone:(03) 5975 4644 • CIVIL ENGINEERS Fax:(03) 5975 3916 • SURVEYORS MELBOURNE • Project Managers
The Melburnian, Suite 2 • Urban Designers
250 St. Kilda Rd.
Phone:(03) 9697 8000
Fax:(03) 9697 8099

WAT

URBAN
CONSULTAN

TOWN PLANNERS

HUME CITY COUNCIL PLAN NUMBER 36182/7B R20 REVISION

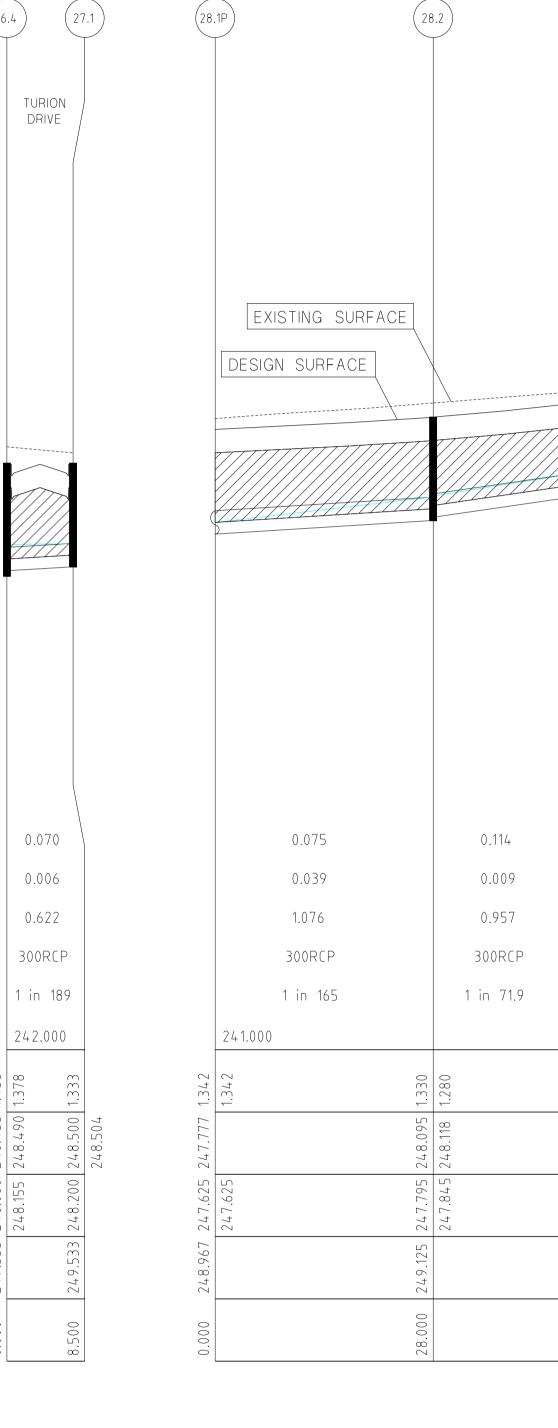
SHEET 20 OF 27

VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM
DRAINAGE LONGITUDINAL SECTION

	(Ex.) (MW09) (Ex.) (15.1) (Ex.)	15.3	15.4	15.5	Fut. 11.6 23.1
					ABLOOM
			XISTING SURFACE GN SURFACE		
APACITY (m3/s) _OW (m3/s)	0.258 0.272 0.216 0.180	0.272 0.185	0.201	0.124 0.0 0.086 0.0	
ELOCITY (m/s)	1.336 1.825	1.837	1.374	1.213	
E SIZE (mm)	525RCP 450RCP	450RCP	450RCP	375RCP 300I	200000
ADE	1 in 277 1 in 110	1 in 110	1 in 202	1 in 200 1 in	
um R.L.	242.000				242.000
PTH TO INVERT	1.709 2.4.79 1.709 1.607 1.4.57 1.4.57	1.435	1.388	1.313	
i.L. LEVELS	248.887 249.031 249.095	249.303	249.570	249.840	249.950 1.254 249.954 248.625 1.335 248.692 1.260 248.693 1.205
VERT LEVELS	247.780 247.010 247.780 247.840 248.080 248.225 248.225	248.676 249.303 1.435 248.726 249.337 1.385	249.120	249.465 249.840	249.650
NISHED SURFACE LEVELS	249.489	250.111	250.508	250.778	250.904
HAINAGE	.650	.297	1.697	5.649	900.6

CAPACITY (m3/s) 0.136 0.136 FLOW (m3/s) 0.036 0.036 VELOCITY (m/s) 1.616 1.616 PIPE SIZE (mm) 300RCP GRADE 1 in 50.9 1 in 50.9 Datum R.L. 243.000 DEPTH TO INVERT H.G.L. LEVELS INVERT LEVELS FINISHED SURFACE LEVELS CHAINAGE

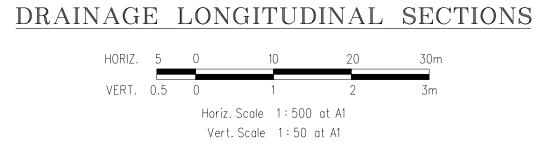
6.4	26.1P			Fut. 26.1
۵				
Water Recycled Water Gas				
Water Recyclo				
000		annan an		
			0.356	
			6 150mm IL 248.247 CLR 0.356	
	\		48.247	
0.134		0.134	1 2	
0.020		0.020	150mm	
1.369 300RC		1.369 300RCP	9	
1 in 51				
242.000				
78	8 7			8
248.490 1.378	71 1.548			00 1.1
248.490	248.571			249.3
	248.240		248.753	9.000
248.155	88 24		54	18 24
7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	249.788			43.750 250.118 249.000 249.300 1.118
	4.750		30.750	.750
5	4		30	6.43



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249.339 248.149 248.257 1.190
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— Water Recycled Water — Gas				
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0.02	22	0	.022	
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300F	RCP	30	0RCP	
	68.8	1 in	68.8	
1 in (
1 in 6				
	00			0.0
241.00	1.190			9.050 1.088
248.118 1.040 248.173 248.173 1.040	248.257 1.190			50 249.050 1.088
241.00	1.190			248.750 249.050 1.088
248.118 1.040 248.173 248.173 1.040	248.257 1.190			249.838 248.750 249.050 1.088

NOTE: LOCATION OF GAS, WATER, TELSTRA & ELECTRICITY SERVICES INDICATIVE ONLY



			VERSION DETAILS			SCALE:	AS SHOW	'N	
EVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/20	14	MORNINGTON
						LEVEL DATA:	Ltopo.dgn		5 Main Street, Phone:(03) 5975 4644
E	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916
D	22/09/14	4	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC				MELBOURNE
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B		The Melburnian, Suite
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd. Phone:(03) 9697 8000
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	Fax:(03) 9697 8099
ENAME: k:	\36182\36182 <u>_</u> 7	b∖dgn\r21.dgn				AUTHORISED:	A.S.C.	DATE: MAR 2014	

NINGTON ain Street, ne:(03) 5975 4644 (03) 5975 3916	0	TOWN PLANNERS CIVIL ENGINEERS SURVEYORS	
BOURNE Melburnian, Suite 2 St. Kilda Rd. ne:(03) 9697 8000 (03) 9697 8099	0	Project Managers Urban Designers Structural Engineers	WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGE
			ADN 17 427 EAO 412

	HUME CITY COUNCIL	PLAN NUMBER
	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7B 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7E R 21
WATSONS URBAN DEVELOPMENT ONSULTANTS & MANAGERS	DRAINAGE LONGITUDINAL SECTION	revision E
ABN 47 637 509 613	DRAINAGE LONGITODINAL SECTION	SHEET 21 OF 27

PIT SCHEDULE

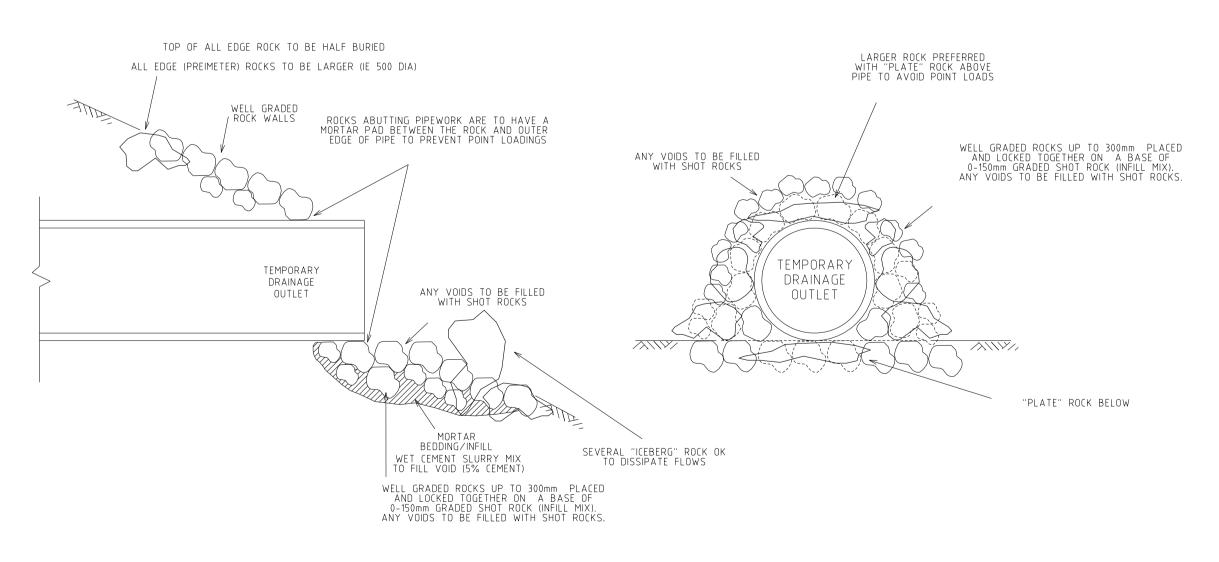
				PIT	SCHEDU.					
PIT NO. & TYPE	INTERNAL DIMENSIONS	EASTING	NORTHING	INLET DIA.	INLET I.L.	OUTLET DIA.	OUTLET I.L.	COVER LEVEL	DEPTH TO INVERT	REMARKS
MW14 PC	-	3596.514	9892.363			1350	248.83	251.445	2.615	End Capped (Future Pipe to Pipe Connection)
MW13 SEP	900 x 1500	3614.49	9889.953	1350	248.71	1350	248.66	250.979	2.319	GAA012(HAUNCHED); SD275(CIRCULAR PIT LID)
MW12 SEP	900 x 1500	3695.057	9879.151	1350	248.07	1350	248.02	250.55	2.53	GAA012(HAUNCHED); SD275(CIRCULAR PIT LID)
MW11 SEP	900 x 1500	3773.752	9868.6	1350	247.495	1350	247.445	250.153	2.708	GAA012(HAUNCHED); SD275(CIRCULAR PIT LID)
Ex. MW10 PC	-	3822.959	9862.002	1350	247.116	1350	247.116	249.725	2.609	Pipe to Pipe Connection
Ex. MW09 SEP	Existing	3838.832	9859.874	1350	247.01	1350	246.96	249.489	2.479	Existing Pit
				525	247.78			249.489	2.479	Line 15 Enters
2.13 JP	900 x 600	3659.068	9782.627			300	248.872	249.889	1.017	GAA014; SD275(CIRCULAR PIT LID)
Ex. 2.12 PC	-	3702.678	9776.78	300	248.52	300	248.52	249.535	1.015	Pipe to Pipe Connection
Ex. 2.11 JP	Existing	3715.563	9775.053	300	248.416			249.437	1.021	Existing Pit
4.5 JP	900 x 600	3671.621	9707.291			300	247.917	249.104	1.187	GAA014; SD275(CIRCULAR PIT LID)
Ex. 4.4 PC	-	3682.028	9705.896	300	247.746	300	247.746	249.013	1.267	Pipe to Pipe Connection
Ex. 4.3 SEP	Existing	3716.47	9701.278	300	247.18			248.494	1.314	Existing Pit
Fut. 6.5 SEP	Future	3624.511	9757.244	375	248.27	375	248.22	249.689	1.469	Future Pit
6.4 PC	-	3630.29	9756.469	375	248.19	375	248.19	249.635	1.445	End Capped (Future Pipe to Pipe Connection)
6.4 JP	900 × 600	3641.239	9755.001	375	248.13	375	248.08	249.533	1.453	GAA014; SD275(CIRCULAR PIT LID)
				300	248.155			249.533	1.453	Line 26 Enters
				300	248.155			249.533	1.453	Line 27 Enters
6.3 JP	900 x 600	3685.295	9749.095	375	247.836	375	247.786	249.119	1.333	GAA014; SD275(CIRCULAR PIT LID)
6.2 PC	-	3687.775	9748.762	375	247.763	375	247.763	249.095	1.332	Pipe to Pipe Connection
Ex. 6.2 SEP	Existing	3711.015	9745.646	375	247.545	450	247.47	248.862	1.392	Existing Pit
				300	247.545			248.862	1.392	Line 22 Enters
Fut. 11.7 SEP	Future	3634.066	9825.581	300	248.82	300	248.77	250.211	1.441	Future Pit
11.6 PC	ruture		9824.069	300	248.707	300	248.707	250.211	1.411	
	000 4 600	3645.343						249.585		End Capped (Future Pipe to Pipe Connection)
11.6 SEP	900 x 600	3712.305	9815.091	300	248.325	375	248.25		1.335	GAA012; SD275(CIRCULAR PIT LID)
11.64.00		7710 200	0014 507	300	248.325	775	248.22	249.585	1.335	Line 23 Enters
11.6A PC	-	3716.209	9814.567	375	248.22	375	248.22	249.559	1.339	Pipe to Pipe Connection
Ex. 11.5 PC	- -	3798.076	9803.591	375	247.61	375	247.61	249.022	1.412	Pipe to Pipe Connection
Ex. 11.4 SEP	Existing	3800.059	9803.325	375	247.595			249.005	1.41	Existing Pit
12.5 JP	900 x 600	3667.729	9848.057			300	249.672	250.767	1.095	GAA014; SD275(CIRCULAR PIT LID)
Ex. 12.4 PC	-	3720.259	9841.014	300	249.356	300	249.356	250.396	1.04	Pipe to Pipe Connection
Ex. 12.3 JP	Existing	3744.542	9837.758	300	249.21	300	249.16	250.303	1.143	Existing Pit
Ex. 12.2 JP	Existing	3805.992	9829.519	300	248.705			249.863	1.158	Existing Pit

NOTE:

1. xy setout to pit centre

2. setout level to pit cover level

PIT NO. & TYPE	INTERNAL DIMENSIONS	EASTING	NORTHING	INLET DIA.	INLET I.L.	OUTLET DIA.	OUTLET I.L.	COVER LEVEL	DEPTH TO INVERT	REMARKS
Fut. 15.6 SEP	Future	3620.645	9905.926			300	249.65	250.904	1.254	Future Pit
15.5 JP	900 x 600	3643.796	9902.823	300	249.54	375	249.465	250.778	1.313	GAA014; SD275(CIRCULAR PIT LID)
				300	249.74			250.778	1.313	Line 24 Enters
15.4 SEP	900 x 600	3697.269	9895.653	375	249.195	450	249.12	250.508	1.388	GAA012; SD275(CIRCULAR PIT LID)
15.3 SEP	900 x 600	3775.965	9885.102	450	248.726	450	248.676	250.111	1.435	GAA012; SD275(CIRCULAR PIT LID)
Ex. 15.2 PC	-	3825.172	9878.504	450	248.225	450	248.225	249.682	1.457	Pipe to Pipe Connection
Ex. 15.1 SEP	Existing	3841.03	9876.378	450	248.08	525	247.84	249.447	1.607	Existing Pit
				300	248.15			249.447	1.607	Line 16 Enters
23.1 SEP	900 x 600	3711.175	9806.666			300	248.38	249.585	1.205	GAA012; SD275(CIRCULAR PIT LID)
Fut. 24.1 JP	Future	3650.427	9952.28			300	250.72	251.924	1.204	Future Pit
24.1 PC	-	3644.58	9908.67	300	249.849	300	249.849	251.207	1.358	End Capped (Future Pipe to Pipe Connection)
Fut. 26.1 JP	Future	3647.053	9798.363			300	249	250.118	1.118	Future Pit
26.1 PC	-	3641.871	9759.709	300	248.24	300	248.24	249.788	1.548	End Capped (Future Pipe to Pipe Connection)
27.1 SEP	900 x 600	3640.11	9746.577			300	248.2	249.533	1.333	GAA012; SD275(CIRCULAR PIT LID)
28.3 JP	900 x 600	3647.832	9731.164			300	248.13	249.335	1.205	GAA014; SD275(CIRCULAR PIT LID)
28.2 SEP	900 x 600	3645.108	9710.846	300	247.845	300	247.795	249.125	1.33	GAA012; SD275(CIRCULAR PIT LID)
				300	247.845			249.125	1.33	Line 29 Enters
				300	248.085			249.125	1.33	Line 30 Enters
28.1 PC	-	3641.387	9683.094	300	247.625			248.967	1.342	Temporary Outfall
29.1 SEP	900 x 600	3653.533	9709.716			300	247.91	249.125	1.215	GAA012; SD275(CIRCULAR PIT LID)
Fut. 30.1 JP	Future	3599.764	9716.925			300	248.75	249.838	1.088	Future Pit
30.1 PC	-	3640.4	9711.477	300	248.149	300	248.149	249.339	1.19	End Capped (Future Pipe to Pipe Connection)



TYPICAL STORMWATER DRAINAGE TEMPORARY OUTLET

N.T.S.

			VERSION DETAILS		SCALE:	AS SHOWI	N				HUME CITY COUNCIL	PLAN NUMBER	
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	16/12/201	4	MORNINGTON 5 Main Street,	• TOWN PLANNERS		VILLAWOOD PROPERTIES P/L	2/402/70
						LEVEL DATA:	Ltopo.dgn		Phone:(03) 5975 4644	• CIVIL ENGINEERS		trillium – stage 7b	36182/7B
Е	16/12/14	ALL	-	AS CONSTRUCTED	ZWL	DATUM:	AHD		Fax:(03) 5975 3916	SURVEYORS		535 MOUNT RIDLEY ROAD	R 2 2
D	22/09/14	L ₊	LOT 765 CROSSOVER RELOCATED	ISSUED FOR CONSTRUCTION	ASC	PROJECT No.:	36182/7B			 Project Managers 		MICKLEHAM	
С	7/07/14	4, 18, 19, 20 & 22	DRAINAGE PITS 6.3, 11.6 & 23.1 RELOCATED	ISSUED FOR CONSTRUCTION	ASC				The Melburnian, Suite	2 · Urban Designers	WATSONS		_
В	23/06/14	4, 17, 18 & 22	MW DRAINAGE LINE AMENDED	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAR 2014	250 St. Kilda Rd. Phone:(03) 9697 8000	• Structural Engineers	URBAN DEVELOPMENT		REVISION
А	01/05/14	ALL	COUNCIL COMMENTS DATED 22/04/14	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAR 2014	Fax:(03) 9697 8099		CONSULTANTS & MANAGERS	PIT SCHEDULE	
FILENAME: k	:\36182\36182_7	b\dgn\r22.dgn		1	AUTHORISED:	A.S.C.	DATE: MAR 2014	1		ABN 47 637 509 613		SHEET 22 OF 27	



