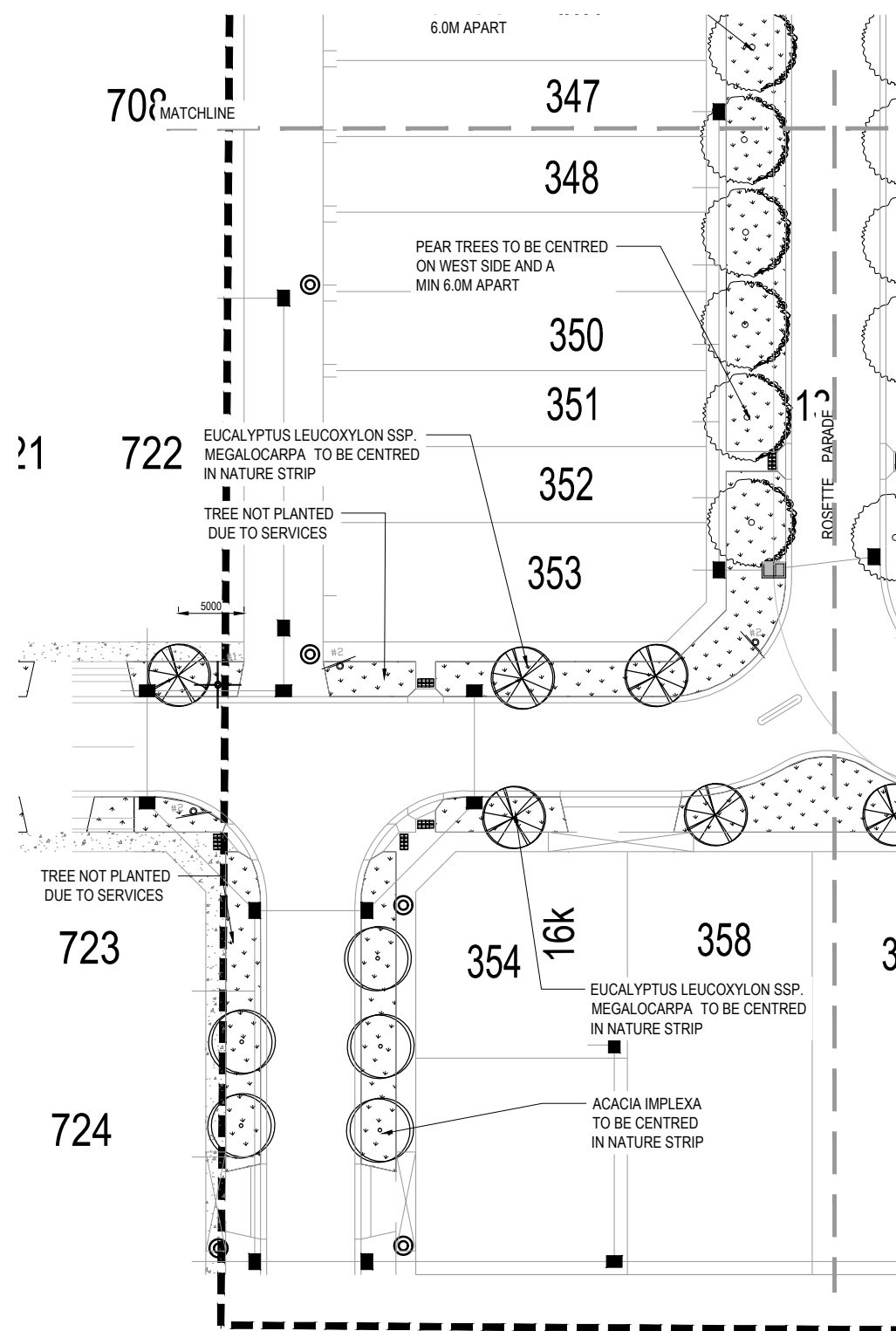
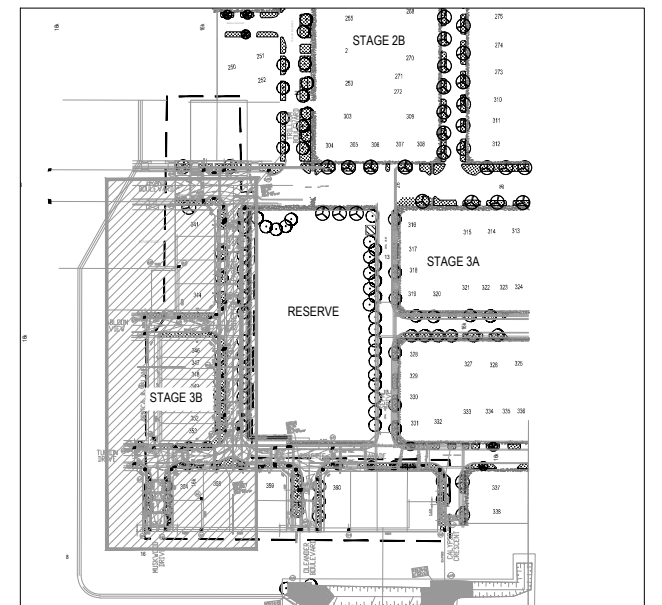


FOR CONTINUATION REFER DRAWING 31-28513-L349



PLANT SCHEDULE STAGE 3 STREET TREES					
CODE	SPECIES	COMMON NAME	PLANT	COMP	PLANT SIZE
			\$/m2	%	
ADVANCE TREE PLANTING STREETSCAPES					
AC imp	Acacia implexa	HICKORY WATTLE	AS SHOWN		45 Litre 30mm CAL 2.5m HIGH
EUC leu	Eucalyptus leucosylon ssp. megalocarpa	LARGE FRUITED SA BLUE GUM	AS SHOWN		45 Litre 30mm CAL 2.5m HIGH
LAR NA	Lagerstroemia indica x L. fauriei 'Natchez'	CREPE MYRTLE	AS SHOWN		45 Litre 30mm CAL 2.5m HIGH
PYR cal E	Pyrus calleryana x P. betulaeifolia 'Edgewood'	EDGEWOOD PEAR	AS SHOWN		45 Litre 30mm CAL 2.5m HIGH
ULM par	Ulmus parviflora 'Todd'	CHINESE ELM	AS SHOWN		45 Litre 30mm CAL 2.5m HIGH
			TOTAL PLANTS		

FOR CONTINUATION REFER DRAWING 31-28513-L346



LOCATION PLAN  
1:2000

#### LEGEND

- Eucalyptus leucosylon ssp. megalocarpa*
- Pyrus calleryana x P. betulaeifolia 'Edgewood'*
- Ulmus parviflora 'Todd'*
- Lagerstroemia indica x L. fauriei 'Natchez'*
- Acacia implexa*
- SEWER COVER
- STREET SIGN LOCATION
- CROSS OVER LOCATION



**WARNING**  
ALL SERVICES SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY AND EXACT LOCATION IS TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORKS.

0 2.5 5 7.5 10 12.5m  
SCALE 1:250 AT ORIGINAL SIZE

**AS BUILT**

A	FIRST ISSUE		GC	GC	SG
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date



#### DO NOT SCALE

Conditions of Use.  
This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.

Drawn	Designer
Drafting Check	Design Check
Approved (Project Director)	Date
Scale 1:250	This Drawing must not be used for Construction unless signed as Approved

Client	VILLAWOOD PROPERTIES
Project	TRILLIUM DEVELOPMENT
Title	STAGE 3B - STREETScape STREET TREE PLANTING SHEET 1 OF 2
Original Size	A1
Drawing No:	31-28513-L349

Rev: A

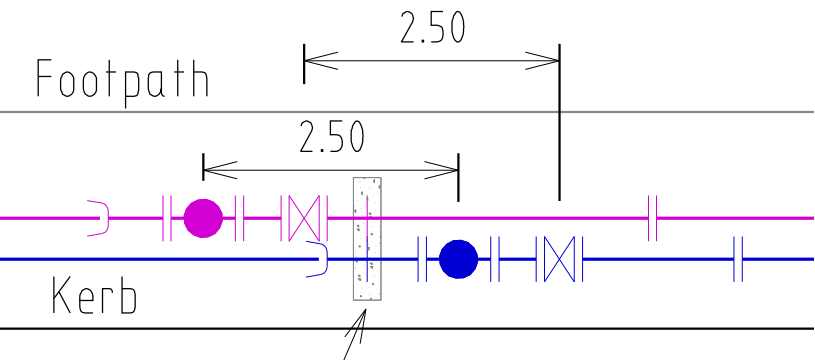


DESIGN HEAD: 67.3 m  
ZONE: RESIDENTIAL  
TEST PRESSURE: 1000 kPa



LOCALITY PLAN  
SCALE: 1:20,000  
MELWAYS: 366 B12

Typical Valve Cluster Arrangement



In Line Thrust Block.  
Refer MRWA-W-205B.



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:

- Only products approved and catalogued by the Water Agency shall be used.
- Works must be constructed according to WSA 03- 2012 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.
- DW and NDW assets shall only be constructed after deeper assets affecting the water mains have been constructed (eg: sewerage & drainage assets).
- This design is to be read in conjunction with drinking water main, road and drainage plans.
- The Contractor shall obtain a road opening permit for any works within the road reserve and comply with all requirements of the road owner.
- For interpretation of the symbols used in this design, refer to drawing MRWA-W-100.

Survey, Set Out and Asset Recording

- Temporary Bench Marks (TBM) for the set out of works to the Australian Height Datum (AHD) are provided in the design drawings.

- All levels are in metres to AHD.
- All co-ordinates are in metres to the Map Grid of Australia (MGA 55- 94) unless noted otherwise.
- 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.
- 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.
- All specific pipe materials (eg: PVC-O) shall be indicated in the As Constructed information

Products and Materials

- DW and NDW system components shall be differentiated as per section 4.2 of WSA03-2012 MRWA edition.

- For the Pipe Schedule, refer to TABLE .1.

- For the Pipe Material Schedule, refer to TABLE. 2.

Appurtenances (Fittings)

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

Water Main Alignment, Trenching & Cover

- Trench, pipe placement, embedment and backfill dimensions as per standard drawing MRWA-W-202.
- Offsets of mains from property boundaries shall be; min 600mm (mains < DN100) and min 1m (mains >=DN100).

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

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

Embedment

- For trafficable and non-trafficable embedment refer MRWA-W-201.

- Embedment shall be placed as per drawings MRWA-W-201 and MRWA-W-202.

Backfill

- For trafficable and non-trafficable backfill refer MRWA-W-201. Any other backfill material to be approved by road authority.

- Compaction trials and compaction testing shall be undertaken in accordance with the MRWA Backfill Specifications.

Thrust Restraint

- For the Thrust Restraint Schedule, refer to TABLE .6.
- Construct concrete thrust restraints as per drawings MRWA-W- 205A, 205B and 308.

- Timber / Recycled plastic blocks as per drawings MRWA-W-204 and MRWA-W-206.
- 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

- Property Services to the end of service shall be constructed as per drawings MRWA-W-110 and MRWA-W-111.
- 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)

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

Other Services

- 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.

- Offsets to other services shall be as per TABLE 5 or otherwise as per table 5.5 of WSA03- 2012 MRWA edition. These clearances shall apply to surface covers as well as underground assets.

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

Testing, Asset Acceptance and Live Connections

- Post construction activities (of both DW & NDW) such as swabbing, water quality testing, pressure testing and chlorination shall be carried out in accordance with WSA03-2012 MRWA edition and the MRWA Water Quality Compliance Specification. All test results shall be documented and reported to the Superintendent.

- The Contractor &/or Consultant shall provide 5 days notice to the Superintendent prior to testing being undertaken.

All main to meter service connections are to remain exposed until inspected by the Water Agency compliance officer.

- With each NDW connection, the Contractor must supply a signed pre-inspection checklist.

- 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.

- Valves connecting new assets to the Water Agency's live system shall not be operated by the Contractor.

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

ISSUED FOR  
CONSTRUCTION

TABLE 1. New Pipe Schedule

New Work			Drinking Main	Non-Drinking Main
Size (DN)	Type	Class	Length	Length
225	PVC-O or PVC-M	16	-	37m
150	PVC-O or PVC-M	16	-	234m
100	PVC-O or PVC-M	16	-	169m
63	PE80	12.5	-	-
50	PE80	12.5	-	-
40	PE80	12.5	-	-
25	PE80	12.5	Property Services	Property Services

TABLE 2. Pipe Material Schedule

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	Front of Future Lot
150	WASHOUT	NDW - YVW	End of Line	OLEANDER PARADE	Front of Lot 358
100	WASHOUT	NDW - YVW	End of Line	ABLOOM VIEW	Front of Future Lot
100	WASHOUT	NDW - YVW	End of Line	TURION DRIVE	Front of Future Lot
100	WASHOUT	NDW - YVW	End of Line	MUSKWOOD DRIVE	Front of Lot 355
100	HYDRANT	NDW - YVW	In Line	ABLOOM VIEW	South of Lot 344
100	HYDRANT	DW - YVW	In Line	TURION DRIVE	South of Lot 353
150	HYDRANT	DW - YVW	In Line	ROSETTE PARADE	East of Lot 341
150	HYDRANT	DW - YVW	In Line	ROSETTE PARADE	North of Lot 359
100	HYDRANT	DW - YVW	In Line	ROSETTE PARADE	North of Lot 361

TABLE 4. Curved Pipe & Deflection Schedule

Location	Method	Offset / Radius (m)	Total Pipe Length (m)	Pipe Lengths (m)

TABLE 5. Service Alignment Schedule (offsets in m)

Location	Water	ND-Water	Gas	NBN	Elec	Poles	BOK
GRAND BOULEVARD	4.05 N	3.45 N	2.95 N	2.775 S	3.175 S	-	-
ROSETTE PARADE	3.05 W/N	2.55 W/N	2.05 W/N	1.775 E/S	2.60 E/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	-	-
MUSKWOOD DRIVE	3.05 E	2.55 E	2.05 E	1.775 W	2.60 W	-	-
OLEANDER BOULEVARD	4.05 W	3.55 W	3.05 W	1.775 E	2.60 E	-	-
ARNICA LANE	-	-	-	-	-	-	-

TABLE 6. Thrust Restraint Schedule

Location	Type	Area (m <sup>2</sup> )	Depth (m)	Width (m)	Quantity	Fitting	AHBP (kPa) USED
A	Detail E, MRWA-W-308	1.06	N/A	N/A	1	225 CHLORIN	50
B	Detail A-D, MRWA-W-205B	0.50	N/A	N/A	4	150 TEE/CAP	50
D	Detail A-D, MRWA-W-205B	0.24	N/A	N/A	5	100 TEE/CAP	50
E	Detail A-D, MRWA-W-205B	0.26	N/A	N/A	2	100/150 TAPER	50
F	Detail I-K, MRWA-W-205A	0.30	N/A	N/A	3	100 HYDRANT	50
G	Detail A-D, MRWA-W-205B	0.48	N/A	N/A	3	150 VALVE	50
H	Detail A-D, MRWA-W-205B	0.30	N/A	N/A	4	100 VALVE	50
I	Detail I-K, MRWA-W-205A	0.48	N/A	N/A	2	150 HYDRANT	50

TABLE 7. Vertical Clearances

Existing or proposed Service	Minimum vertical clearance (mm)	Existing or proposed Service	Minimum vertical clearance (mm)
Water mains ≤ DN375	150	Electricity conduits and cables	225
Water mains >DN375	300	Stormwater drains & pits	150
Gas mains	150	Sewers - gravity	500
Teleco conduits and cables	150	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.

F	TAPPING LOCATION AMENDMENT	25/10/13	Z.W.L.
E	YVW REQUESTED AMENDMENTS	2/9/13	Z.W.L.
D	TAPPINGS ADDED FOR FUTURE LOT NORTH OF TURION DRV	21/8/13	Z.W.L.
C	TAPPINGS ADDED FOR FUTURE LOT WEST OF MUSKWOOD DRV	21/8/13	Z.W.L.
B	RECYCLED WATER TAPPING ADDED FOR RESERVE	14/8/13	Z.W.L.
A	SERVICE OFFSET AMENDMENTS	1/08/13	Z.W.L.
REV	DESCRIPTION	DATE	APPROVED

DESIGNED	C.M.B.	WATSONS REFERENCE	36182/3B
CHECKED	Z.W.L.	MELWAY REFERENCE	366 B12
AUTHORISED BY	Z.W.L.	YARRA VALLEY WATER REFERENCE	09/525



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TOWN PLANNERS - URBAN DESIGNERS  
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250 St. Kilda Rd.  
Phone:(03) 9697 8000  
Fax:(03) 9697 8099



YARRA VALLEY WATER  
ACN 066 902 501

NON DRINKING WATER MAIN PLAN  
TRILLIUM - STAGE 3B  
535 MOUNT RIDLEY ROAD, MICKLEHAM  
HUME CITY COUNCIL

SCALE AS SHOWN

SHEET 1 of 2	F
DRAWING No.	09/525
NDW01	



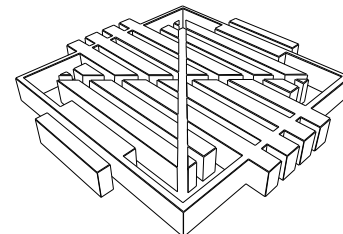
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X	VALVE	)	ENDCAP
●	WATER AUTHORITY HYDRANT, BELOW GROUND.	---	ABANDONED
⌀	REMOVE FITTING	→	SWAB DIRECTION
▶	TAPER	⚡	SWAB INSERTION POINT
⊗	CHLORINATION POINT	⚡	SWAB REMOVAL POINT
⊙	WASHOUT ASSEMBLY	○	EXISTING HYDRANT



ISSUED FOR  
CONSTRUCTION

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AUTHORISED BY	Z.W.L.	YARRA VALLEY WATER REFERENCE	09/525



**WATSONS**  
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Fax: (03) 9697 8099



YARRA VALLEY WATER  
ACN 066 902 501  
NON DRINKING WATER MAIN PLAN  
TRILLIUM - STAGE 3B  
535 MOUNT RIDLEY ROAD, MICKLEHAM  
HUME CITY COUNCIL

SCALE AS SHOWN	
SHEET 2 of 2	F
DRAWING No.	09/525
NDW02	NDW02



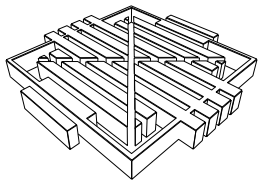
SHEET INDEX

1	LOCALITY PLAN, SHEET INDEX & GENERAL NOTES
2	SITE SPECIFIC NOTES & HUME CITY COUNCIL NOTES
3	TYPICAL PAVEMENT CROSS SECTIONS
4-4A	DETAIL PLAN & SERVICE OFFSET TABLE
5	INTERSECTION DETAILS, LIP OF KERB PROFILES & CURVE SETOUT TABLE
6-7	INTERSECTION DETAILS & LIP OF KERB PROFILES
8	GRAND BOULEVARD LONGITUDINAL & CROSS SECTIONS
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11-13	ROSETTE PARADE CROSS SECTIONS
14	ABLOOM VIEW LONGITUDINAL & CROSS SECTIONS
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16	MUSKWOOD DRIVE LONGITUDINAL & CROSS SECTIONS
17	OLEANDER BOULEVARD LONGITUDINAL & CROSS SECTIONS
18	ARNICA LANE LONGITUDINAL & CROSS SECTIONS
19-23	DRAINAGE LONGITUDINAL SECTIONS
24	DRAINAGE LONGITUDINAL SECTIONS & TYPICAL STORMWATER DRAINAGE TEMPORARY OUTLET
25	PIT SCHEDULE
26	LINEMARKING & SIGNAGE PLAN
26A	PARKINIG PLAN
26B&C	TURNING TEMPLATES
27	EARTHWORKS PLAN

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

REVISIONS			SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K\36182\36182\LTPO
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	DRAWN:	CMB DATE: MAY 2013
17/09/13	J COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED:	ZWL DATE: MAY 2013
FILENAME k \36182\36182 3B\DGN\R01.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



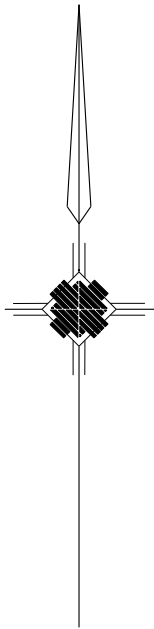
WATSONS  
ABN 47 437 509 410

MORNINGTON  
5 Main Street,  
P.O. Box 171, 3931  
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Fax: (03) 5975 3916  
OX 93118 Mornington

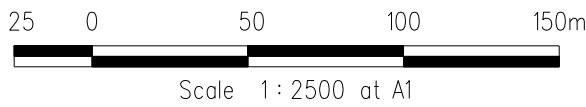
MELBOURNE  
The Melbourne, Suite 2  
250 St. Kilda Road,  
Melbourne, 3004  
Phone: (03) 9697 8000  
Fax: (03) 9697 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R01
LOCALITY PLAN,SHEET INDEX & GENERAL NOTES		REVISION N
		SHEET 1 OF 27

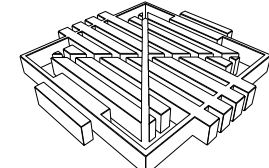
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CONSTRUCTED



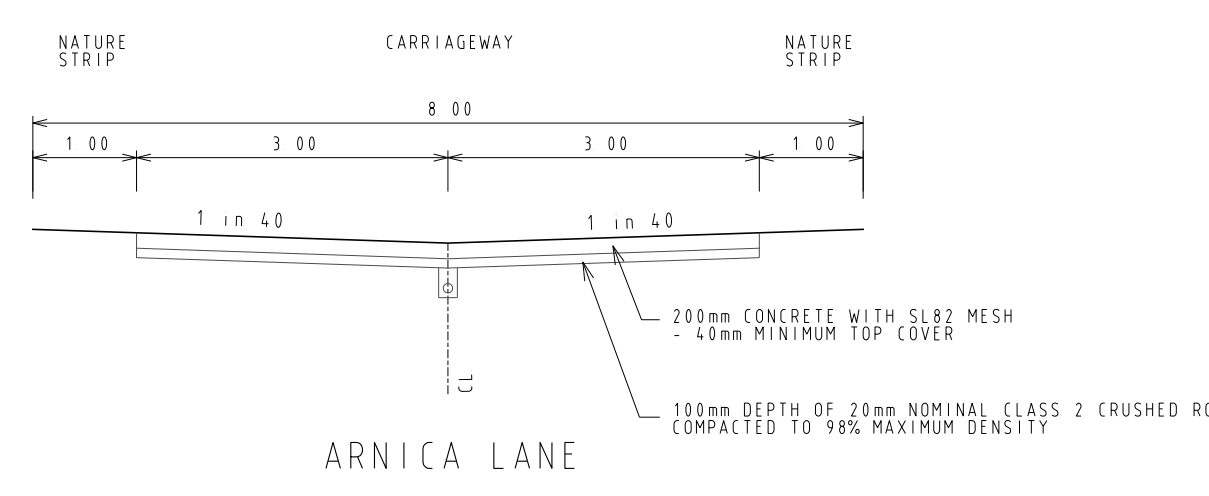
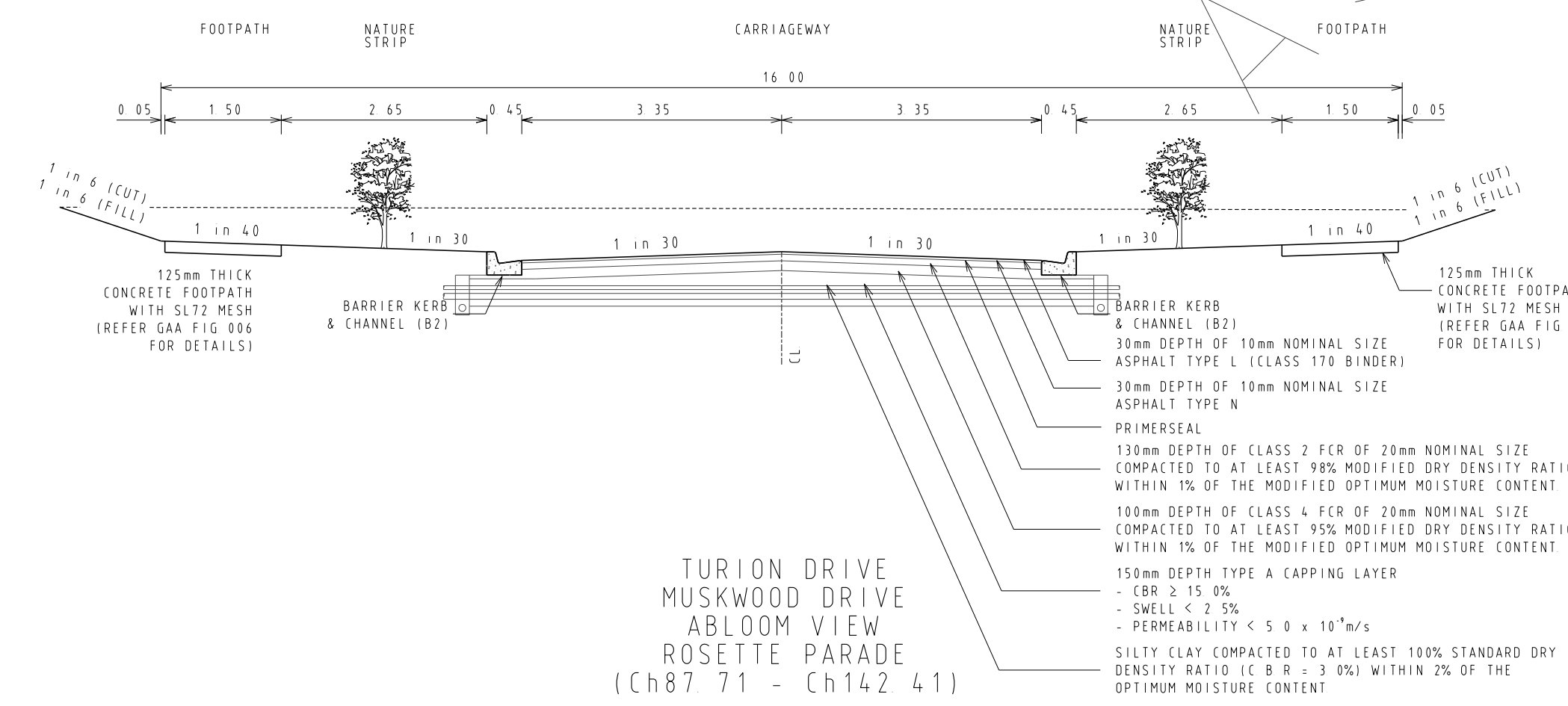
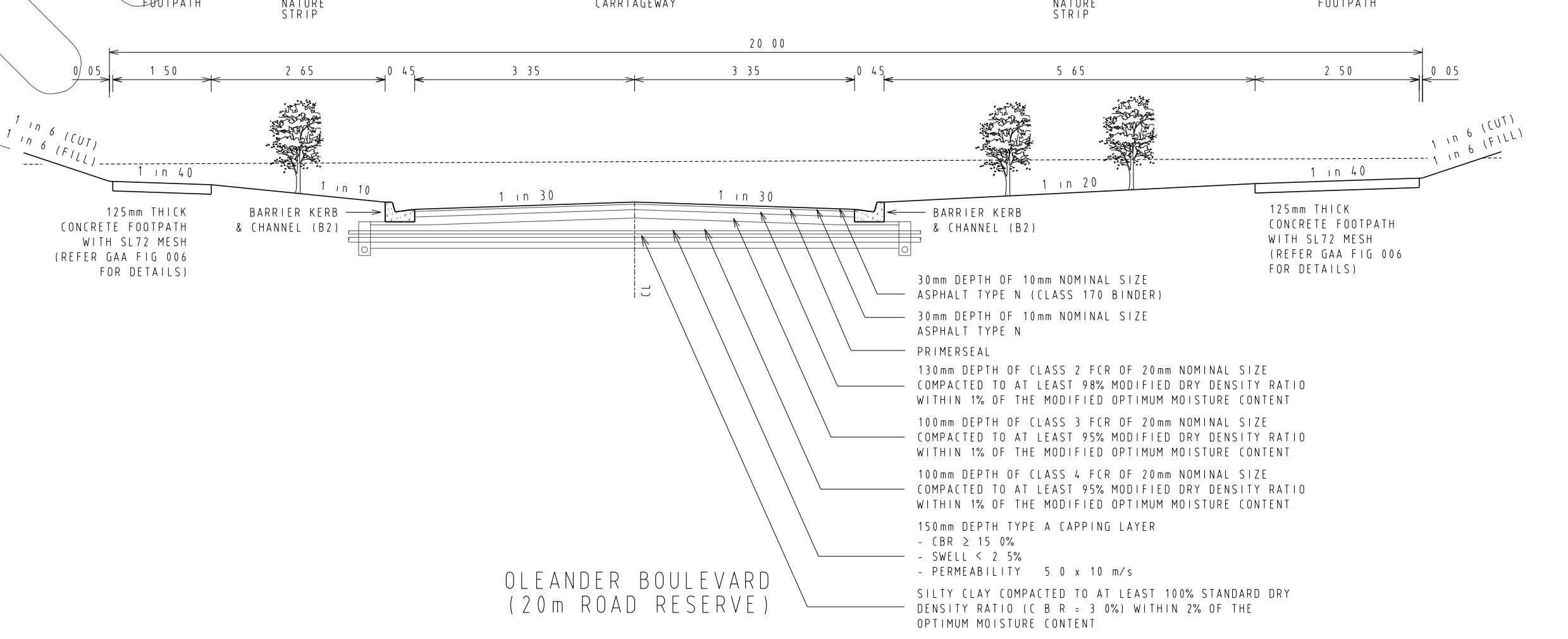
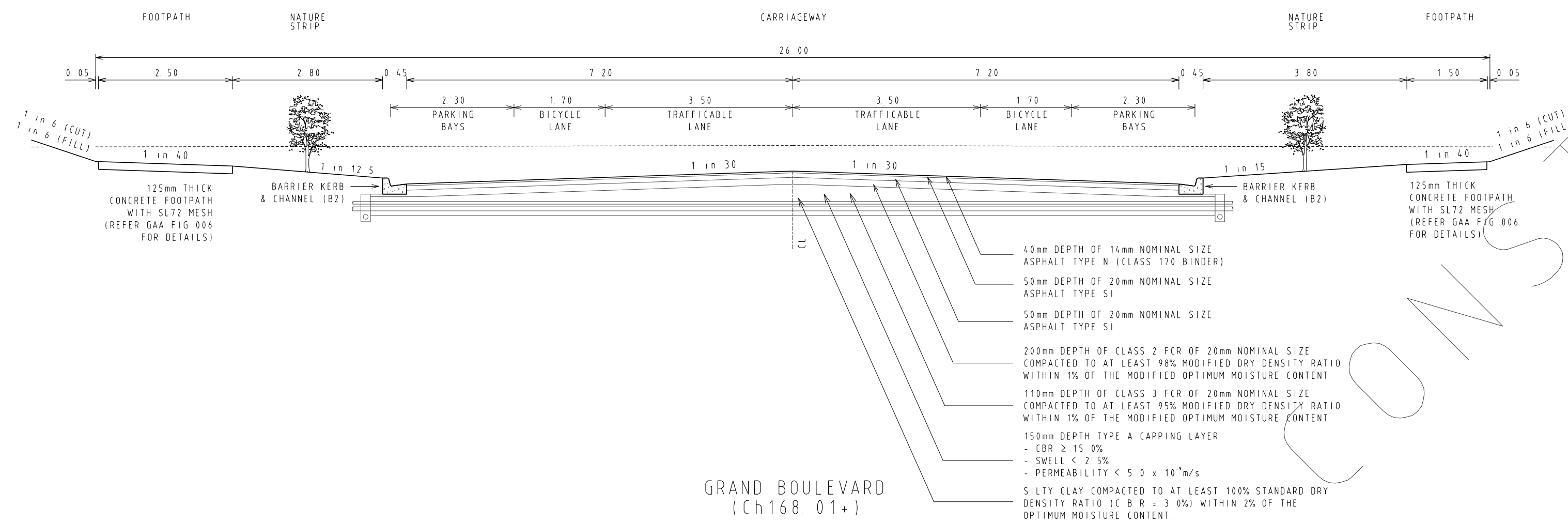
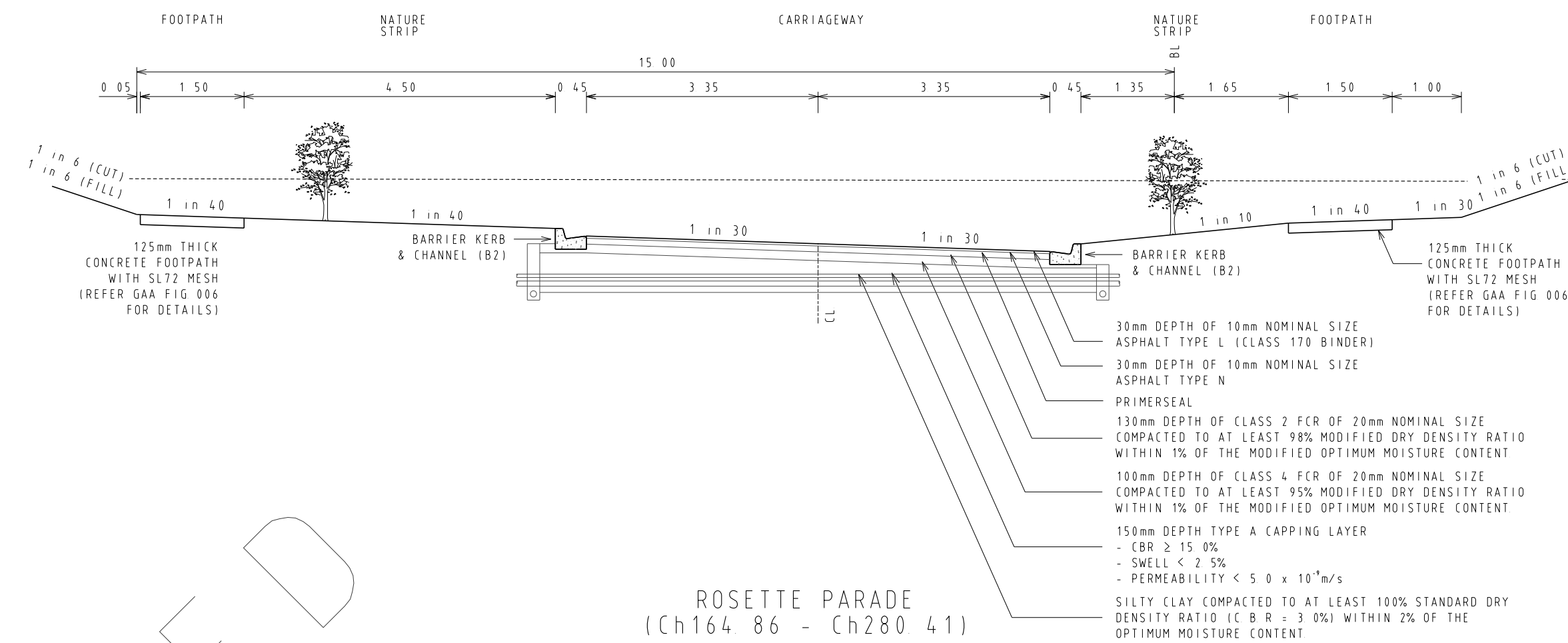
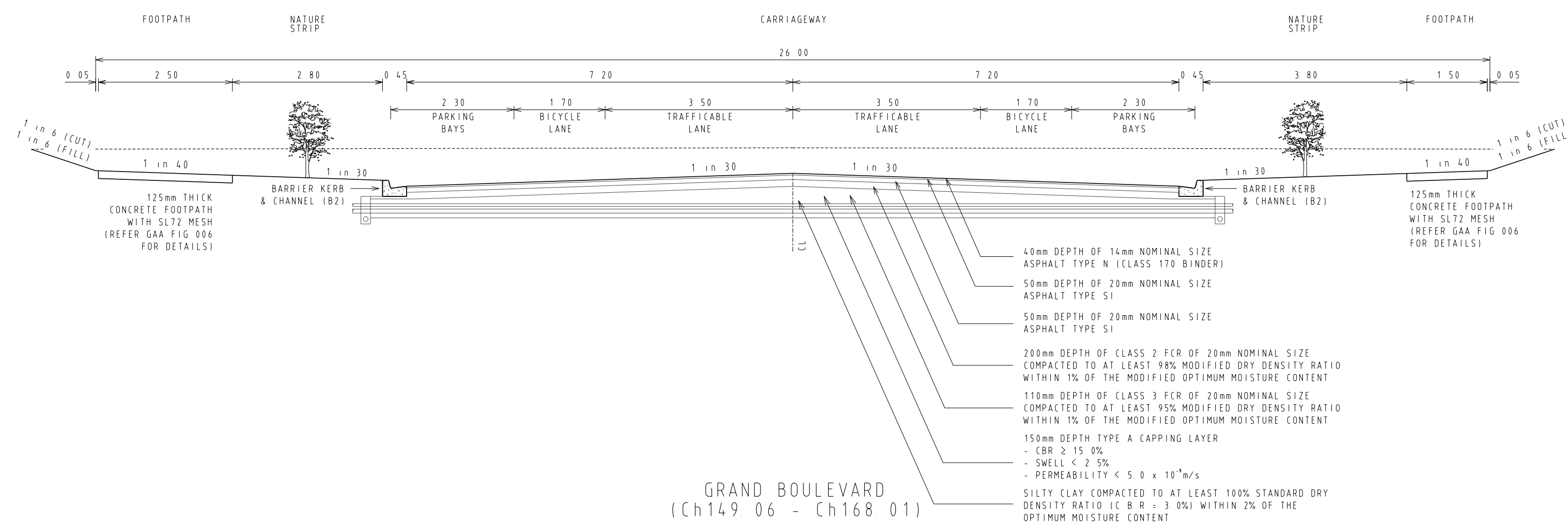
LOCALITY PLAN

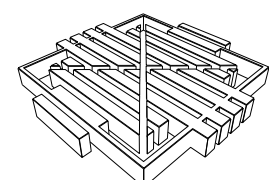




HUME CITY COUNCIL NOTES				SITE SPECIFIC NOTES																																																					
1	ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE	23	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	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																																																				
2	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	24	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	2	THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE SILTATION CONTROL DURING THE CONSTRUCTION AND MAINTENANCE PERIODS																																																				
3	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	25	WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY	3	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	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	26	ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE	4	ALL SERVICES TRENCHES UNDER PAVEMENT WORKS ARE TO BE BACKFILLED WITH FCR AS SPECIFIED																																																				
5	ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL " APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS	27	ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE	5	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	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	28	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	6	AG DRAIN TO BE CONSTRUCTED BEHIND ALL KERB AND CHANNEL																																																				
7	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	29	ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 2 F C R 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	7	ALL DRAINAGE PIPES GREATER THAN 150mm TO BE R R J CLASS 2 (UNO)																																																				
8	ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE	30	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	8	ACCESS TO EXISTING RESIDENCE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION																																																				
9	ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD)	31	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	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	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	32	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	10	APPROPRIATE INSPECTIONS SHALL BE ORGANISED WITH HUME CITY COUNCIL'S COUNCIL WORKS SUPERVISOR																																																				
11	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	33	AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS	11	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	FILLING TO COMPLY WITH A S 3798-1996 APPENDIX B, LEVEL 1 (OR 2) AS SPECIFIED	34	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	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	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	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	13	MINIMUM FALL ON ALL LOTS TO BE 1 IN 150 LONGITUDINALLY																																																				
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	36	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	14	PAVEMENT DEPTH TO BE MODIFIED AS DIRECTED BY HUME CITY COUNCIL																																																				
15	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	37	ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A S 1743 - 2001	15	USE OF ANY SOFT RIPPED ROCK IN ROAD PAVEMENT IS TO CONFORM TO SPECIFICATIONS FOR RIPPED ROCK																																																				
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	38	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	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	THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT	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	17	NO CUT OR FILL EXTENDS INTO BUILDING ENVELOPES, EXCEPT WHERE SHOWN																																																				
18	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	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 NECESSARY 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	18	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																																																				
19	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			19	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	FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY			20	TELSTRA AND ELECTRICITY CABLES ARE TO BE PLACED IN A SHARED TRENCH																																																				
21	ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED			21	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 0.7M																																																				
22	ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SANDBLASTING ONLY WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED			22	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																																																				
				24	SIGNS, MARKINGS AND DELINEATORS TO BE INSTALLED ON ROADS AS APPLICABLE IN ACCORDANCE WITH AS1742 2 ALL LINE MARKING TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED																																																				
				25	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																																																				
				27	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																																																				
				30	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																																																				
				32	ALL PIT FLOORS WITH LESS THAN 30MM 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																																																				
				33	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																																																				
<table><tr><th colspan="3">REVISIONS</th><th>SCALE:</th><th>AS SHOWN</th></tr><tr><th>DATE</th><th>DETAILS</th><th>AUTHORISED</th><th>DATE PRINTED:</th><th>14/02/2014</th></tr><tr><td>14/02/14</td><td>N</td><td>AS CONSTRUCTED</td><td>ASC</td><td>LEVEL DATA: K\36182\36182\LT0PO</td></tr><tr><td>22/01/14</td><td>M</td><td>PARK PATHWAY AMENDMENTS</td><td>ASC</td><td>DATUM: AHD</td></tr><tr><td>8/10/13</td><td>L</td><td>DRAINAGE LINE 4 &amp; 12 AMENDMENTS</td><td>ASC</td><td>PROJECT No.: 36182/3B</td></tr><tr><td>18/09/13</td><td>K</td><td>COUNCIL REQUESTED AMENDMENTS</td><td>ASC</td><td>DRAWN: C.M.B DATE: MAY 2013</td></tr><tr><td>17/09/13</td><td>J</td><td>COUNCIL REQUESTED AMENDMENTS</td><td>ASC</td><td>DESIGNED: Z.W.L DATE: MAY 2013</td></tr><tr><td colspan="3">FILENAME k \36182\36182 3b\ dgn\r02 .dgn</td><td>AUTHORISED:</td><td>A.S.C DATE: MAY 2013</td></tr></table>				REVISIONS			SCALE:	AS SHOWN	DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014	14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K\36182\36182\LT0PO	22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD	8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B	18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	DRAWN: C.M.B DATE: MAY 2013	17/09/13	J	COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED: Z.W.L DATE: MAY 2013	FILENAME k \36182\36182 3b\ dgn\r02 .dgn			AUTHORISED:	A.S.C DATE: MAY 2013	<div><div><p>MORNINGTON 5 Main Street, P.O. Box 171 3911 Phone: (03) 5975 4444 Fax: (03) 5975 3916 OX 93118 Mornington</p></div><div><p>MELBOURNE The Melbourne Suite 2 250 St. Kilda Road, Melbourne, 3004 Phone: (03) 9697 8000 Fax: (03) 9697 8099</p></div></div> <table><tr><th colspan="2">HUME CITY COUNCIL</th><th>PLAN NUMBER</th></tr><tr><td colspan="2">VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS</td><td>36182/3B R02</td></tr><tr><td colspan="2" rowspan="2">HUME CITY COUNCIL &amp; SITE SPECIFIC NOTES</td><td>REVISION N</td></tr><tr><td>SHEET 2 OF 27</td></tr></table>				HUME CITY COUNCIL		PLAN NUMBER	VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R02	HUME CITY COUNCIL & SITE SPECIFIC NOTES		REVISION N	SHEET 2 OF 27
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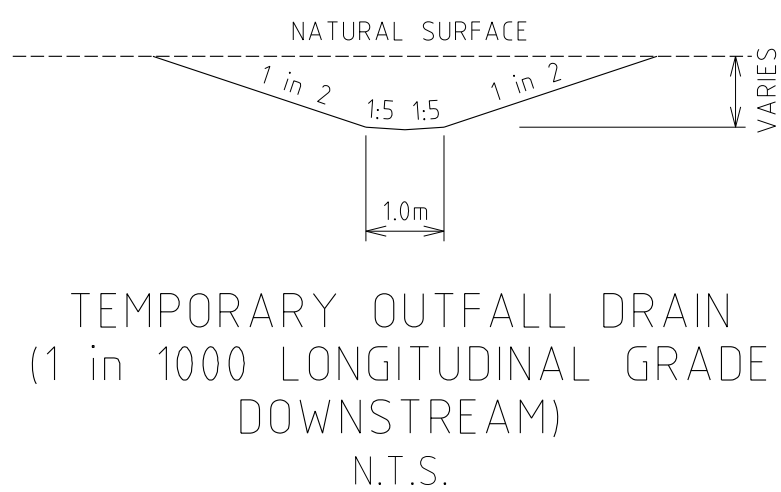


REVISIONS			SCALE: AS SHOWN		 MORNINGTON 5 Main Street, P.O. Box 171, 3931 Phone: (03) 5975 4444 Fax: (03) 5975 3906 DX 9318 Mornington MELBOURNE The Melbourne, Suite 2 250 St. Kilda Road, Melbourne, 3004 Phone: (03) 9697 8000 Fax: (03) 9697 8099		HUME CITY COUNCIL		PLAN NUMBER
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FILENAME k \36182\36182 3b\dgn\r03. dgn			AUTHORISED: A.S.C. DATE: MAY 2013						SHEET 3 OF 27



SERVICE OFFSETS  
SERVICE OFFSETS (m) from building line  
(UNLESS NOTED OTHERWISE)

STREET NAME	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	SEWER
GRAND BOULEVARD	2.95 N	3.45 N	4.05 N	3.175 S	2.775 S	-
ABLOOM VIEW ROSETTE PARADE (E-W) TURION DRIVE	2.05 N	2.55 N	3.05 N	2.60 S (1.80 S ROSETTE PDE LOTS 357/359)	1.775 S (1.30 S ROSETTE PDE LOTS 357/359)	-
ROSETTE PARADE IN-SI	2.05 W	2.55 W	3.05 W	0.85 E	0.35 E	-
MUSKWOOD DRIVE	2.05 E	2.55 E	3.05 E	2.60 W	1.775 W	1.00 E&W
OLEANDER BOULEVARD	3.05 W	3.55 W	4.05 W	2.60 E	1.775 E	1.00 W
ARNICA LANE	-	-	-	-	-	2.00 E



LEGEND

Kerb & Channel

Footpath, Vehicular Crossing Layback & House Drain

Proposed Underground Drainage, Pit & Property Inlet

Existing Underground Drainage, Pit & Property Inlet

Drainage Pit Number

Design Surface Level - Allotments

Existing Surface Level - Allotments

Top of Batter Level - Allotments (Front)

Kerb Level

Pavement Level

Proposed Cut Areas - Allotments

Proposed Fill Areas - Allotments

Service Conduits

Gas  
Water  
Recycled Water  
Electricity  
Telstra  
Optic Fibre

Gas Main

Water Main

Optic Fibre Underground Cable

Electrical Underground Cable & Pit

Telstra Underground Cable

Sewer Main, Access Chamber & Inspection Shaft

Existing Pole (with stay)

Street Name Sign

Existing Tree or Plantation

P.S.M. or Survey Mark

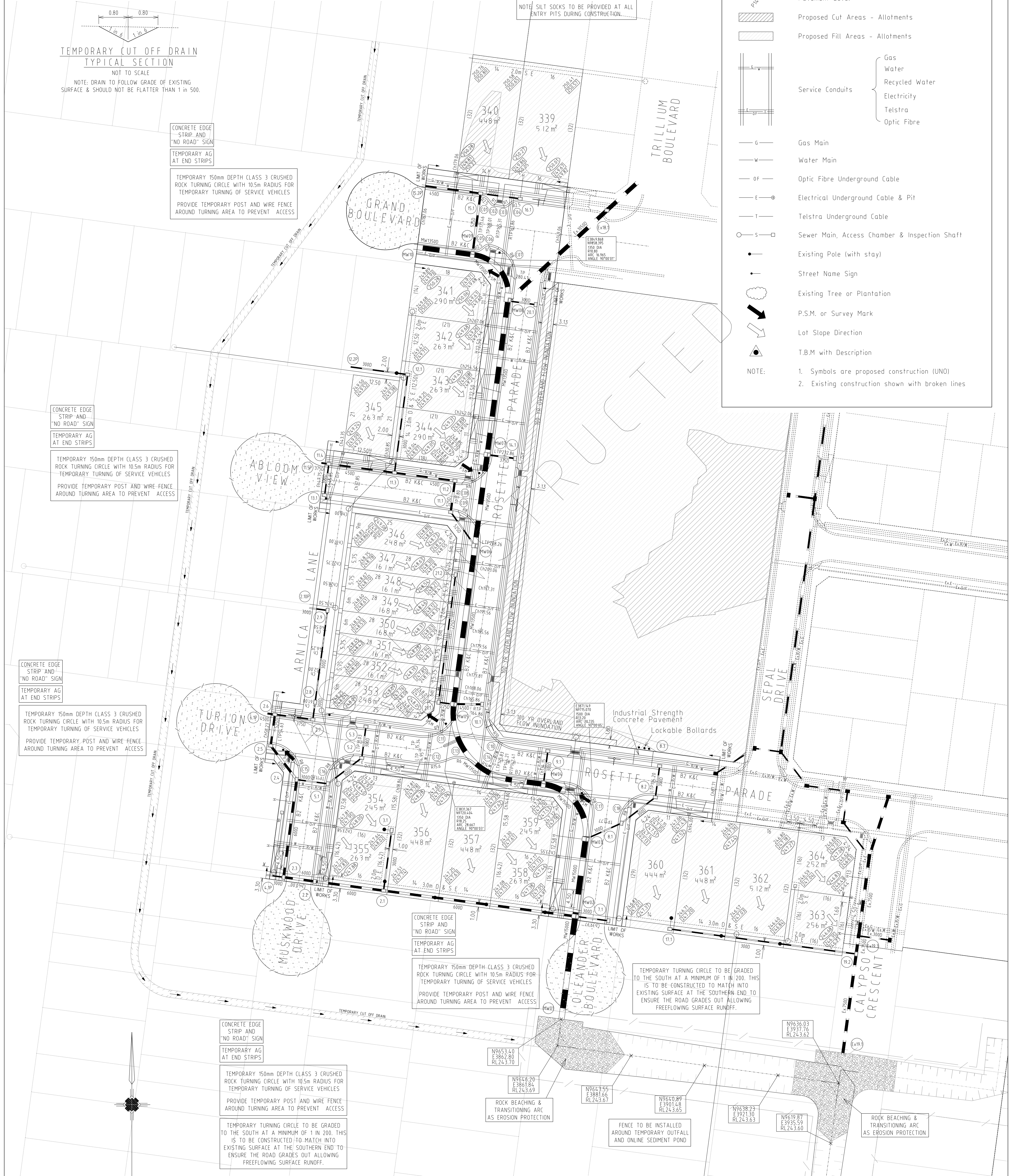
Lot Slope Direction

T.B.M with Description

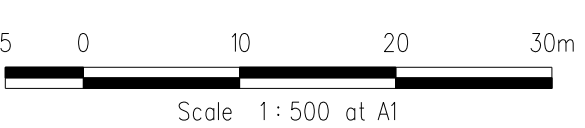
NOTE:

1. Symbols are proposed construction (UNO)

2. Existing construction shown with broken lines



DETAIL PLAN



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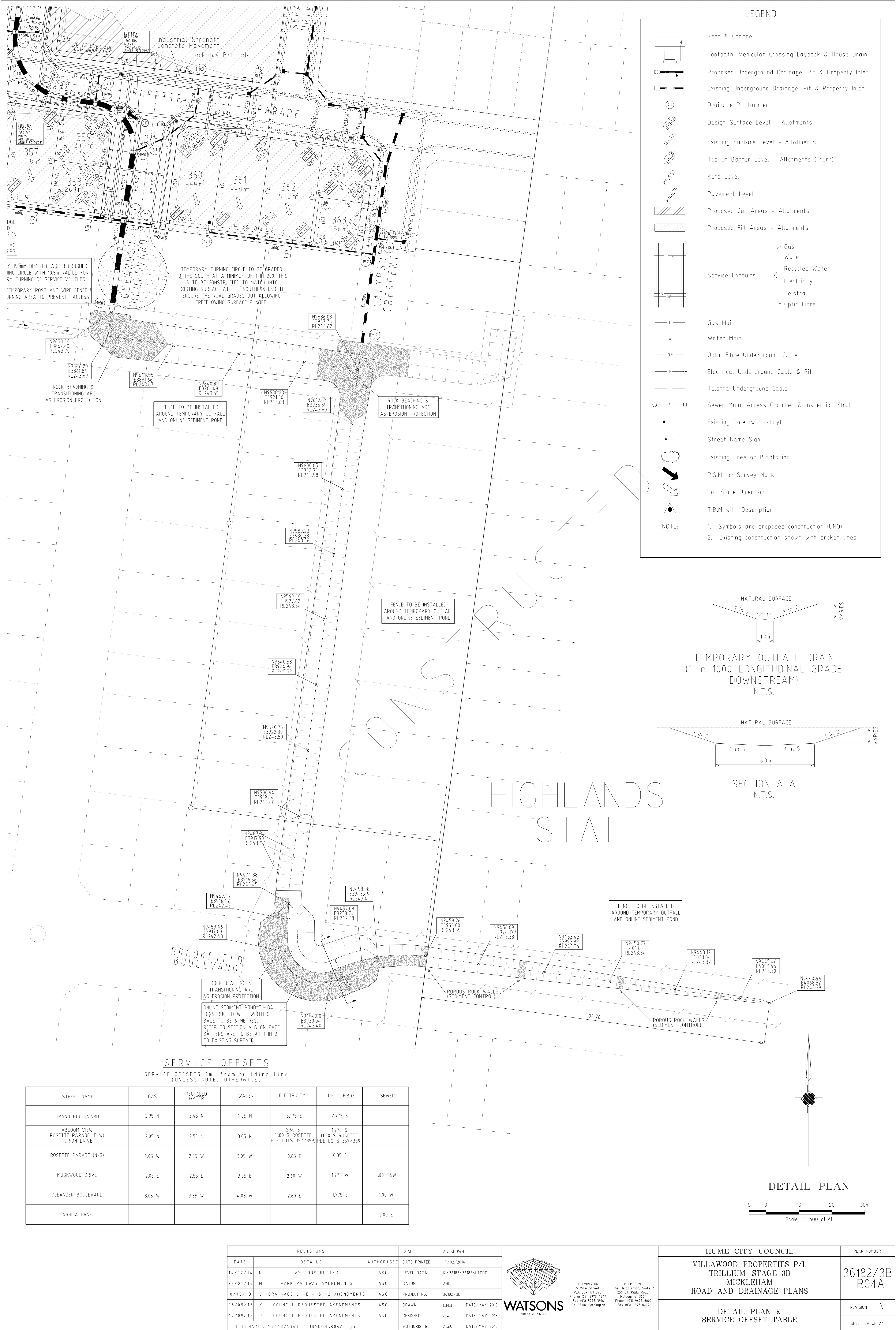


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The Melbourne, Suite 2  
250 St. Kilda Road  
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Fax: (03) 9497 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R04
DETAIL PLAN & SERVICE OFFSET TABLE		REVISION N
		SHEET 4 OF 27







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

WARNING  
OVERHEAD ELECTRICITY

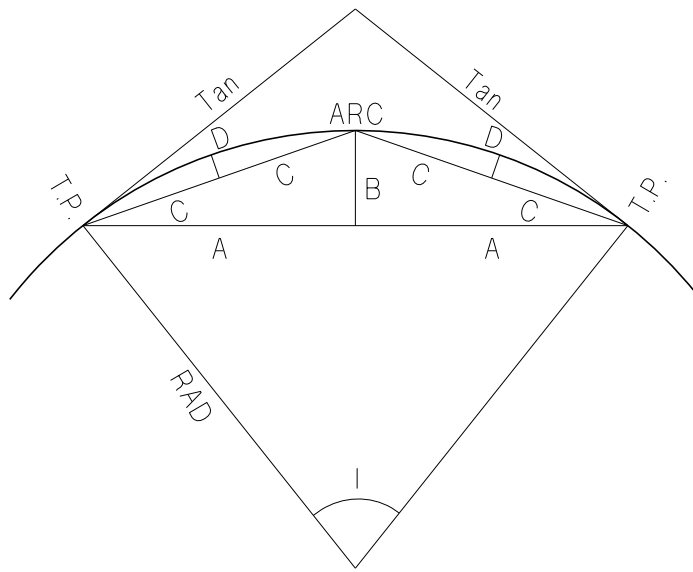


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CURVE SETOUT TABLE

Curve	Radius	L	o	'	"	Arc	Tan	A	B	C	D
1	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
2	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
3	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
4	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
5	2.5	44.67	44	40	4	1.949	1.03	0.95	0.19	0.48	0.05
6	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
7	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
8	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
9	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
10	10	90.00	90	0	1	15.708	10.00	7.07	2.93	3.83	0.76
11	9	90.00	89	59	56	14.137	9.00	6.36	2.64	3.44	0.69
12	15.6	30.87	30	52	12	8.405	4.31	4.15	0.56	2.09	0.14
13	6	62.98	62	58	40	6.595	3.68	3.13	0.88	1.63	0.23
14	14	32.11	32	6	52	7.847	4.03	3.87	0.55	1.96	0.14
15	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
16	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
17	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
18	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61

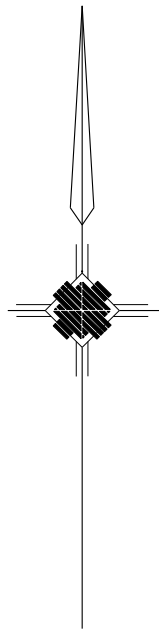
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#1 STREET SIGN

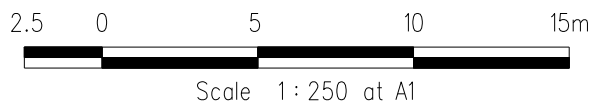


R1-2A

#2



INTERSECTION DETAILS



KERB RETURN K02

POINT NO.	EASTING	NORTHING	RL
K02.1	3850.529	9853.161	249.178
K02.2	3850.321	9856.451	249.223
K02.3	3848.869	9859.412	249.273
K02.4	3846.396	9861.591	249.315
K02.5	3843.278	9862.658	249.341

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade

VC length

Datum RL 247

DESIGN CENTRELINE

EXISTING SURFACE

CHAINAGES

K02 LONGITUDINAL SECTION

KERB RETURN K03

POINT NO.	EASTING	NORTHING	RL
K03.1	3834.58	9797.789	248.552
K03.2	3837.869	9797.997	248.526
K03.3	3840.83	9799.448	248.505
K03.4	3843.01	9801.922	248.483
K03.5	3844.077	9805.041	248.477
K03.6	3844.21	9806.031	248.488

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade

VC length

Datum RL 246

DESIGN CENTRELINE

EXISTING SURFACE

CHAINAGES

K03 LONGITUDINAL SECTION

KERB RETURN K04

POINT NO.	EASTING	NORTHING	RL
K04.1	3840.941	9781.651	248.116
K04.2	3840.733	9784.94	248.198
K04.3	3839.282	9787.902	248.343
K04.4	3836.808	9790.081	248.484
K04.5	3833.69	9791.148	248.552

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade

VC length

Datum RL 246

DESIGN CENTRELINE

EXISTING SURFACE

CHAINAGES

K04 LONGITUDINAL SECTION

LONGITUDINAL SECTIONS

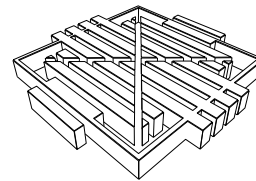
HORIZ. 2 0 4 8 12m

VERT. 0.2 0 0.4 0.8 1.2m

Horiz. Scale 1:200 at A1

Vert. Scale 1:20 at A1

REVISIONS			SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LTPOD
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	DRAWN:	CMB DATE: MAY 2013
17/09/13	J COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED:	ZWL DATE: MAY 2013
FILENAME k \36182\36182 3b\ dgn\r05. dgn			AUTHORISED:	A.S.C DATE: MAY 2013



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HUME CITY COUNCIL

VILLAWOOD PROPERTIES P/L  
TRILLIUM STAGE 3B  
MICKLEHAM  
ROAD AND DRAINAGE PLANS

INTERSECTION DETAILS,  
LIP OF KERB PROFILES  
& CURVE SETOUT TABLE

PLAN NUMBER

36182/3B  
R05

REVISION N

SHEET 5 OF 27



HORIZ. 2 0 4 8 12m  
 VERT. 0.2 0 0.4 0.8 1.2m  
 Horiz. Scale 1:200 at A1  
 Vert. Scale 1:20 at A1

POINT NO.	EASTING	NORTHING	RL
K05.1	3821.446	9729.932	247.542
K05.2	3824.419	9729.534	247.519
K05.3	3828.099	9729.766	247.499
K05.4	3831.141	9731.389	247.479
K05.5	3833.847	9734.155	247.459
K05.6	3835.041	9737.644	247.443
K05.7	3835.306	9739.625	247.462

Vertical Grade  
VC length

[illegible][illegible]

POINT NO.	EASTING	NORTHING	RL
K06.1	3846.04	9719.875	246.892
K06.2	3842.397	9720.897	246.961
K06.3	3839.178	9722.886	247.066
K06.4	3835.98	9724.311	247.196
K06.5	3832.509	9723.854	247.33
K06.6	3828.589	9722.766	247.44
K06.7	3824.52	9722.76	247.503

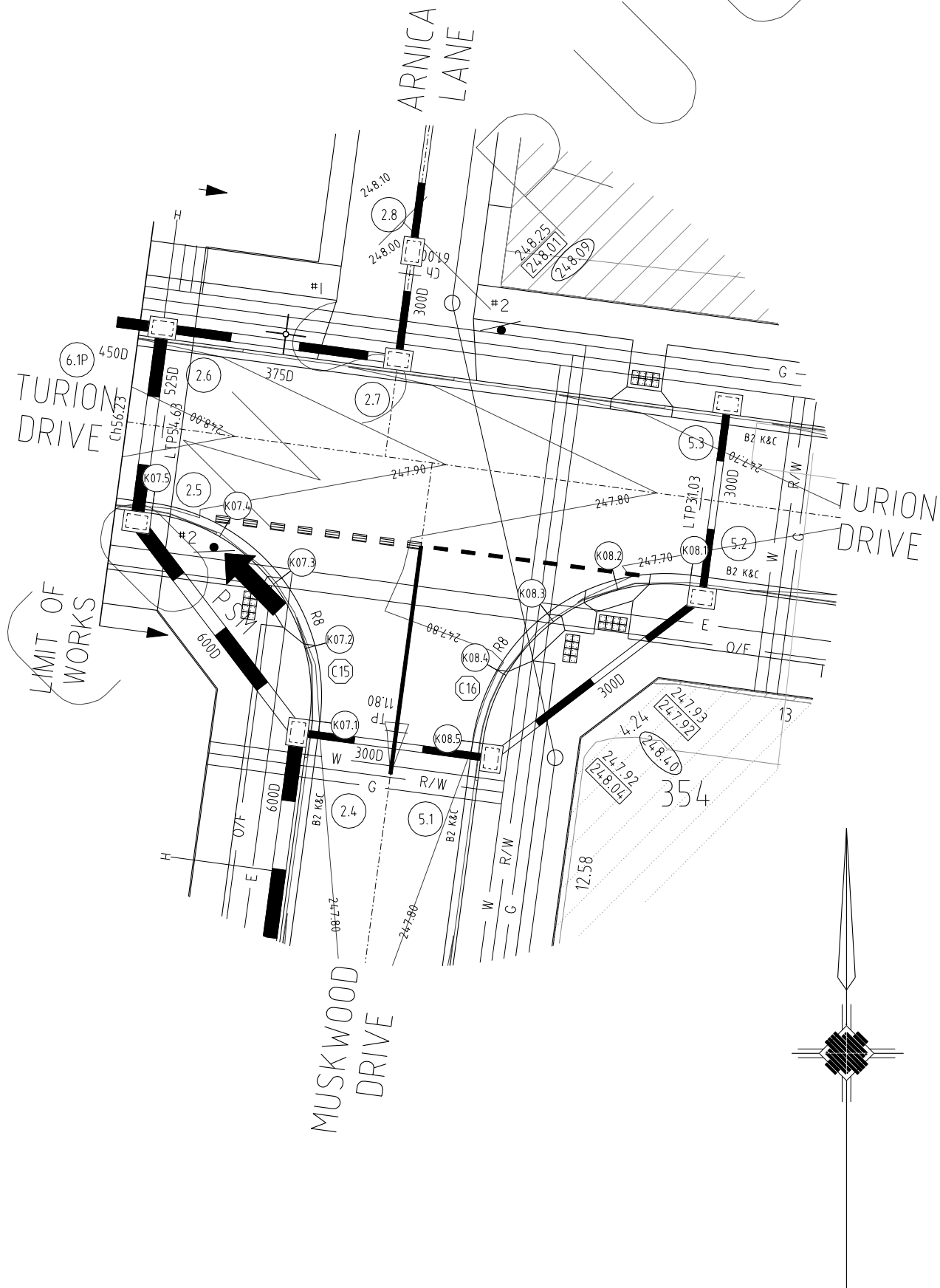
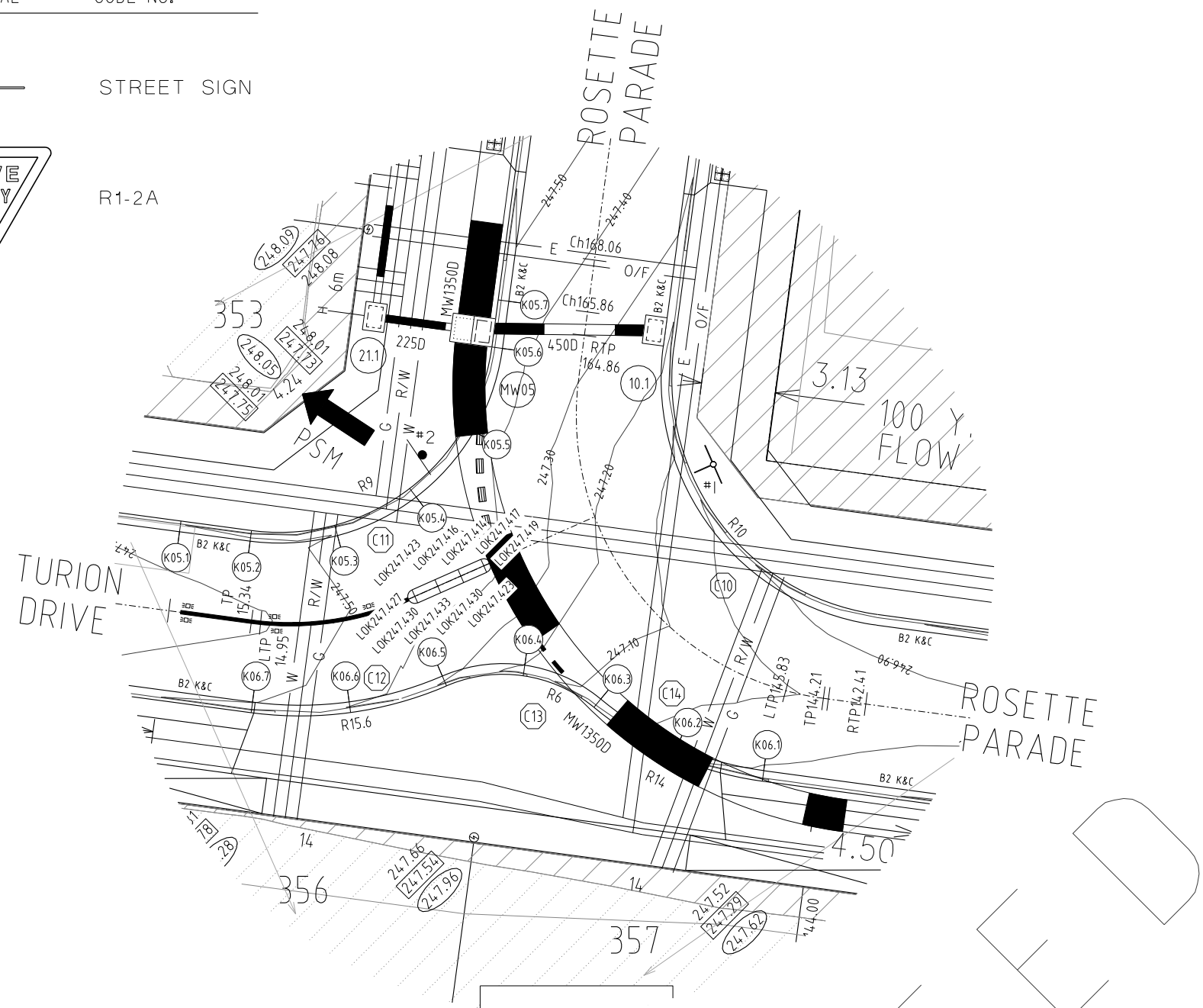
Vertical Grade  
VC length

Datum RL245																							
DESIGN CENTRELINE		246.825		246.892		246.961		247.009		247.066		247.196		247.208		247.330		247.402		247.503		247.552	
EXISTING SURFACE			247.60		247.64		247.67		247.70		247.75		247.75		247.78		247.79		247.81		247.84		
CHAINAGES		-5.00	0.00		3.80		5.71		7.59		11.14		11.42		14.68		17.13		18.77		22.85		27.85

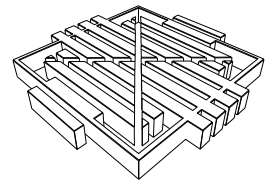
The diagram illustrates the longitudinal profile of a road section. The vertical axis represents elevation in meters, ranging from -5.00 to 27.85. The horizontal axis represents stationing, with key points marked by vertical curve (VC) and intersection (IP) labels. The profile shows a series of grades: 1.338%, 1.338%, 4.200%, 0.967%, and 0.967%. The vertical curve lengths are 11.4m and 11.4m. The intersection points are labeled IP RL 246.968 CH 5.71 and IP RL 247.448 CH 17.13. The profile is defined by a solid line, and a dashed line indicates a proposed or alternative profile. The stationing values are provided for each vertical curve start and end point, as well as for the intersection points.

Stationing	Elevation (m)	Grade (%)	Curve Type	Length (m)	IP Elevation (m)	IP Stationing (CH)
246.825	-5.00	1.338	Start			
246.892	0.00	1.338	End	11.4	246.968	5.71
246.961	3.80	4.200	Start			
247.009	5.71	4.200	End	11.4	247.448	17.13
247.066	7.59	0.967	Start			
247.196	11.14	0.967	End			
247.208	11.42					
247.330	14.68					
247.402	17.13					
247.440	18.77					
247.503	22.85					
247.552	27.85					

#2  R1-2A



REVISONS					SCALE:	AS SHOWN	
DATE	DETAILS			AUTHORISED	DATE PRINTED:	14/02/2014	
16/02/14	N	AS CONSTRUCTED		ASC	LEVEL DATA:	K\36182\36182\LOTO	
22/01/14	M	PARK PATHWAY AMENDMENTS		ASC	DATUM:	MAD	
8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS		ASC	PROJECT No.:	36182/38	
18/09/13	K	COUNCIL REQUESTED AMENDMENTS		ASC	DRAWN:	CMB	DATE: MAY 2013
17/09/13	J	COUNCIL REQUESTED AMENDMENTS		ASC	DESIGNED:	ZWL	DATE: MAY 2013
FILENAME K\36182\36182\36\dgn\06.dgn					AUTHORISED:	ASC	DATE: MAY 2013



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POINT NO	EASTING	NORTHING	RL
K07.1	3792.338	9718.55	247.802
K07.2	3792.13	9721.839	247.828
K07.3	3790.679	9724.801	247.856
K07.4	3788.205	9726.98	247.888
K07.5	3785.087	9728.047	247.922

Vertical Grade  
VC length

Datum R.L.246							
DESIGN CENTRELINE		247.765		247.802		247.828	
EXISTING SURFACE			248.05	248.09	248.15	248.20	247.922
CHAINAGES	-5.00	0.00	3.32	6.64	9.95	13.27	18.27

-5.00	247.765							
0.00	248.05	247.802						
3.32	248.09	247.828						
6.64	248.15	247.856						
9.95	248.20	247.888						
13.27	248.24	247.922						
18.27		247.976						

POINT NO.	EASTING	NORTHING	RL
K08.1	3808.475	9724.911	247.668
K08.2	3805.186	9724.703	247.71
K08.3	3802.225	9723.252	247.765
K08.4	3800.045	9720.778	247.805
K08.5	3798.978	9717.66	247.802

Vertical Grade  
VC length

Datum R.L.246							
DESIGN CENTRELINE		247.614		247.667		247.710	
EXISTING SURFACE			248.00	248.01	248.01	248.00	247.802
CHAINAGES	-5.00	0.00	3.32	6.64	9.95	13.27	18.27

-5.00	247.614	247.667	247.710	247.765	247.805	247.802	247.765
0.00	248.00	248.01	248.01	248.00	247.97		
3.32							
6.64							
9.95							
13.27							
18.27							

HUME CITY COUNCIL	PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS	36182/3B R 06
INTERSECTION DETAILS & LIP OF KERB PROFILES	REVISION N
	SHEET 6 OF 27



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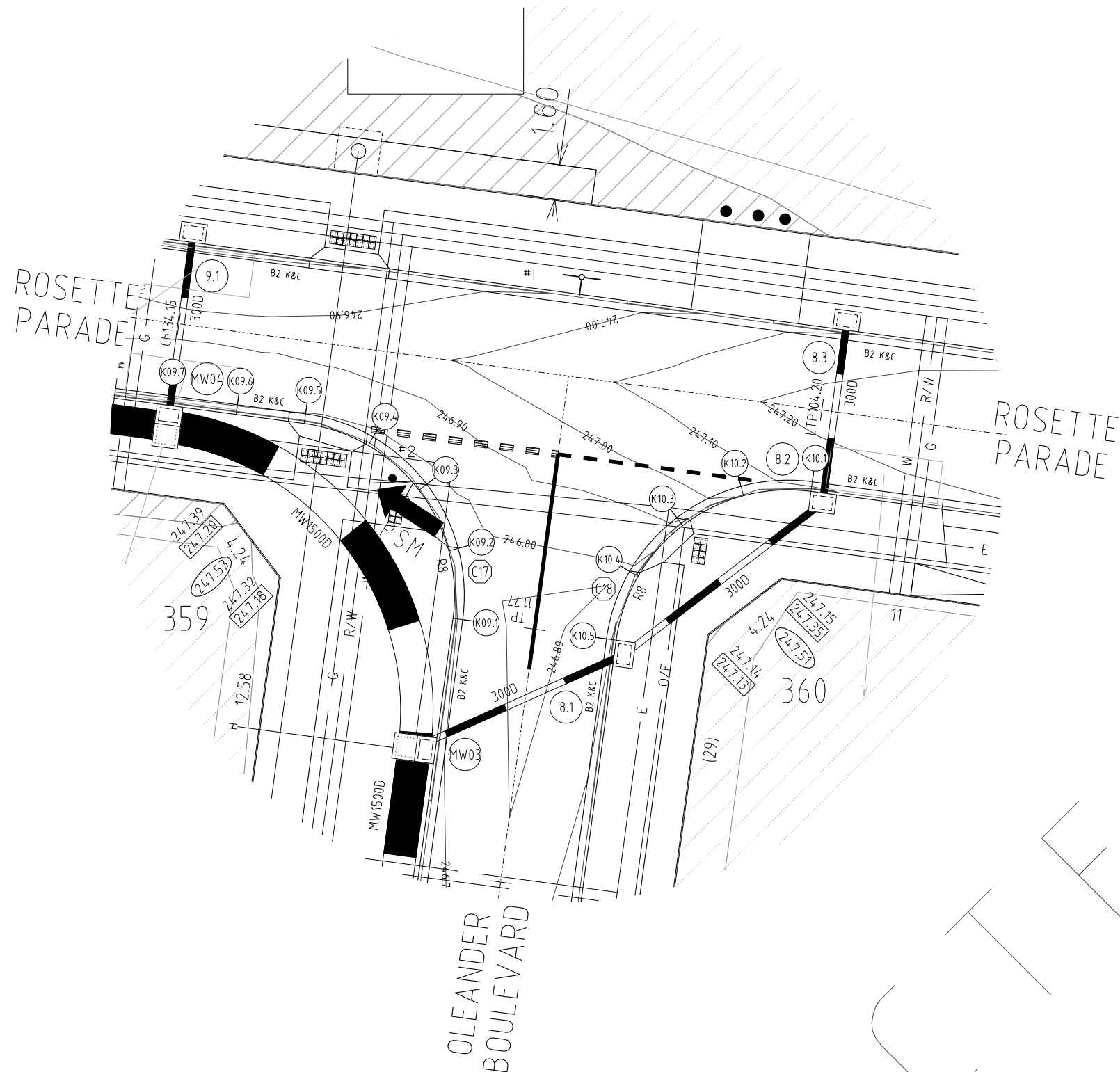
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PLAN I.D. PICTORIAL CODE No.

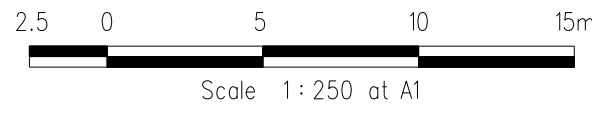
#1 STREET SIGN



R1-2A



## INTERSECTION DETAILS



## KERB RETURN K09

POINT NO.	EASTING	NORTHING	RL
K09.1	3871.628	9707.919	246.732
K09.2	3871.142	9711.209	246.749
K09.3	3869.969	9714.17	246.766
K09.4	3867.495	9716.349	246.783
K09.5	3864.376	9717.416	246.798
K09.6	3861.229	9717.838	246.807
K09.7	3858.084	9718.26	246.813

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade

VC length

Datum RL 245										
DESIGN CENTRELINE	246.707	246.732	246.749	246.757	246.766	246.782	246.783	246.798	246.803	246.807
EXISTING SURFACE		247.23	247.28	247.31	247.34	247.38	247.39	247.42	247.44	247.45
CHAINAGES	-5.00	0.00	3.32	4.91	6.64	9.81	9.96	13.27	14.72	16.45

## K09 LONGITUDINAL SECTION

## KERB RETURN K10

POINT NO.	EASTING	NORTHING	RL
K10.1	3887.766	9714.28	247.129
K10.2	3884.477	9714.073	247.058
K10.3	3881.515	9712.621	246.92
K10.4	3879.336	9710.148	246.788
K10.5	3878.269	9707.029	246.732

NOTE: SETOUT IS TO LIP OF KERB

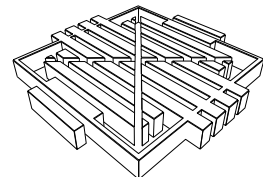
Vertical Grade

VC length

Datum RL 245										
DESIGN CENTRELINE	247.186	247.129	247.058	246.920	246.788	246.732	246.707			
EXISTING SURFACE		247.20	247.23	247.23	247.21	247.18				
CHAINAGES	-5.00	0.00	3.32	6.64	9.95	13.27	18.27			

## K10 LONGITUDINAL SECTION

REVISIONS			SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K\36182\36182\LT.OPO
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	DRAWN: C.M.B. DATE: MAY 2013
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED: Z.W.L. DATE: MAY 2013
FILENAME k \36182\36182 3b\ dgn\ r07. dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



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HUME CITY COUNCIL

VILLAWOOD PROPERTIES P/L  
TRILLIUM STAGE 3B  
MICKLEHAM  
ROAD AND DRAINAGE PLANS

INTERSECTION DETAILS  
& LIP OF KERB PROFILES


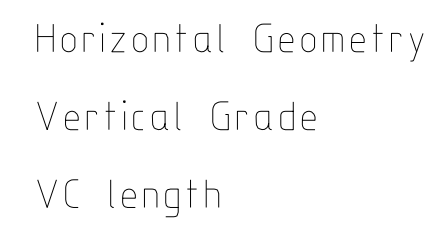
PLAN NUMBER

36182/3B  
R 07

REVISION N

SHEET 7 OF 27





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HUME CITY COUNCIL  
VILLAWOOD PROPERTIES P/L  
TRILLIUM STAGE 3B  
MICKLEHAM  
ROAD AND DRAINAGE PLANS

GRAND BOULEVARD  
LONGITUDINAL & CROSS SECTIONS

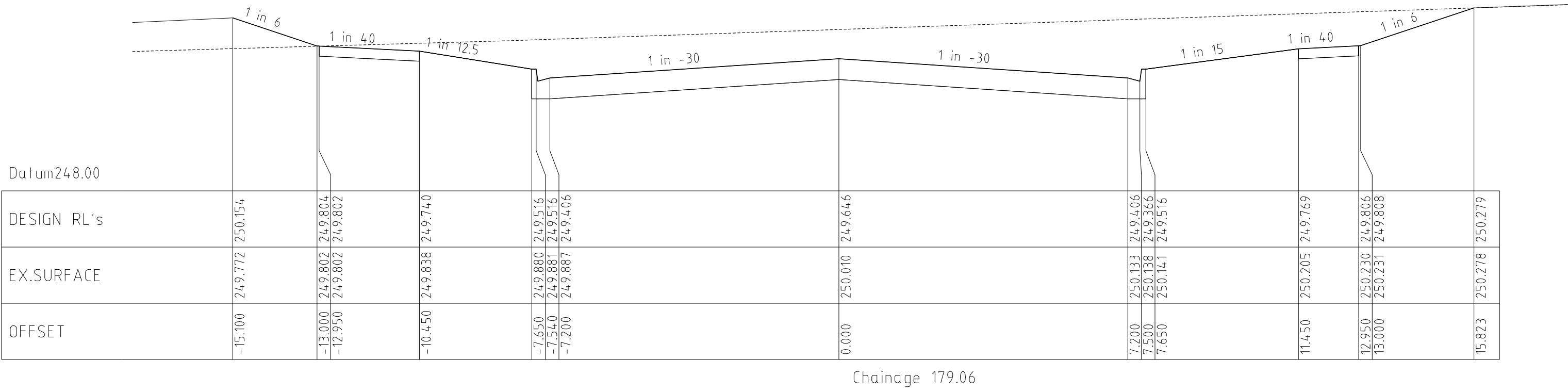
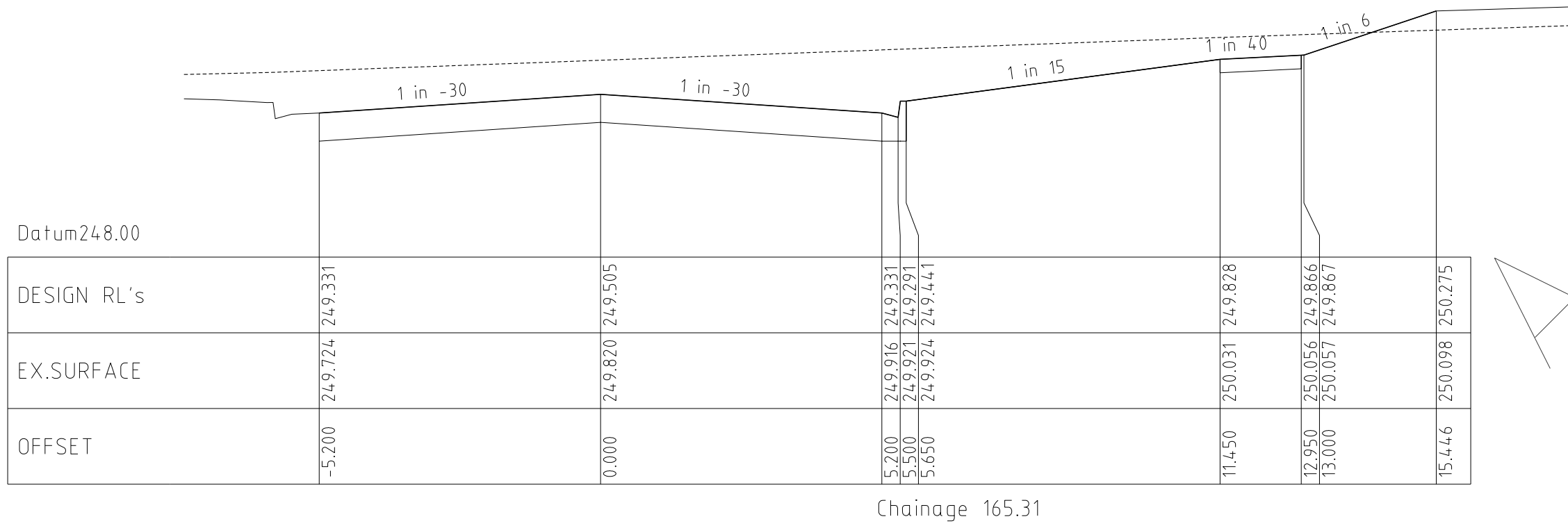
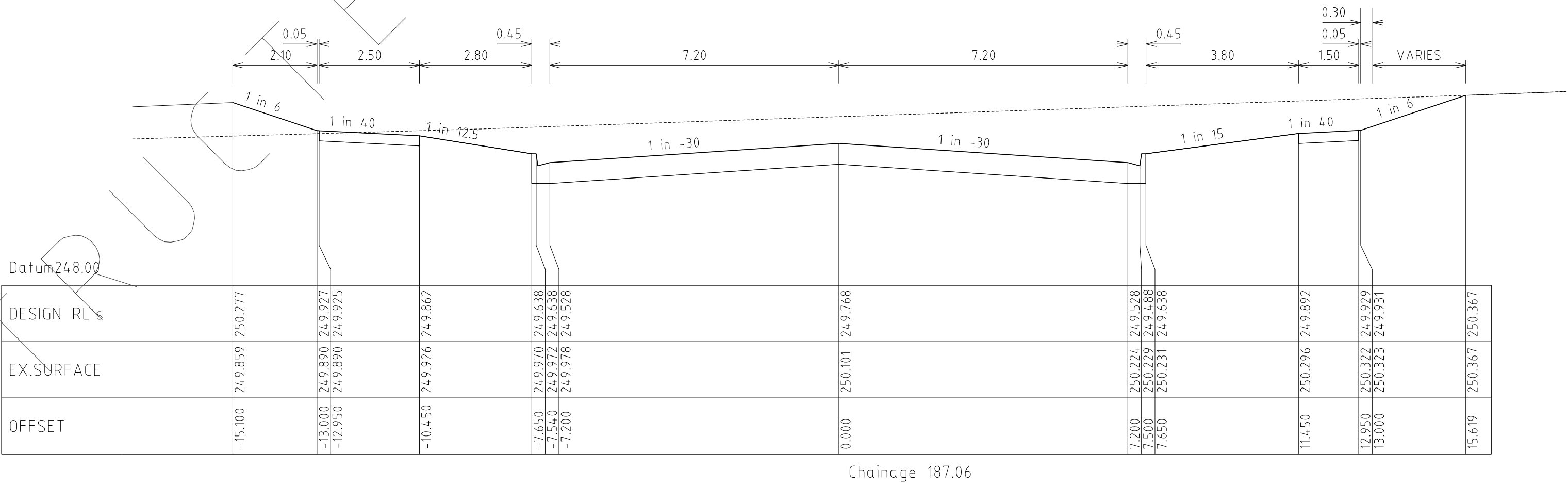
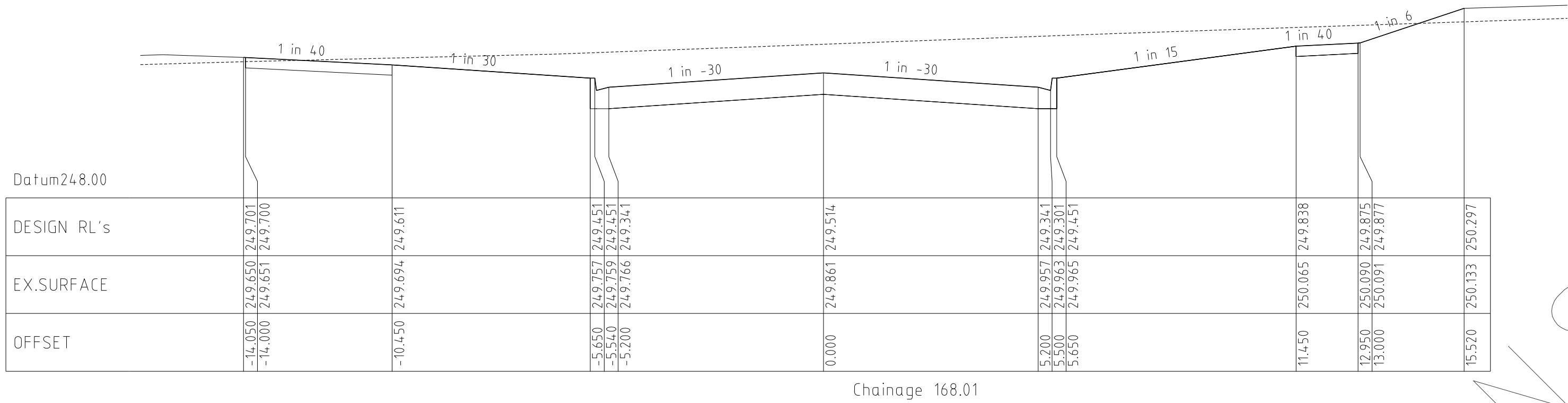
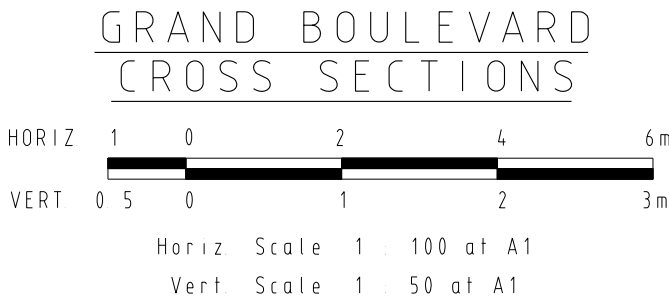
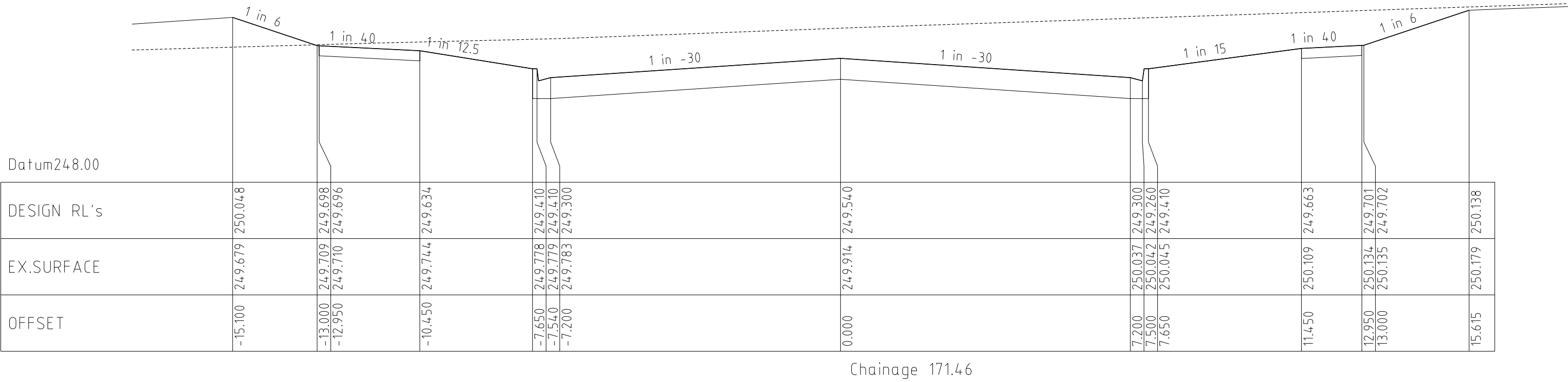
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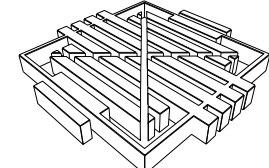
6182/3B  
R08

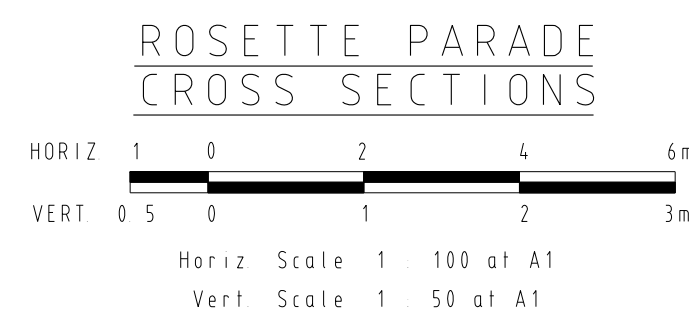
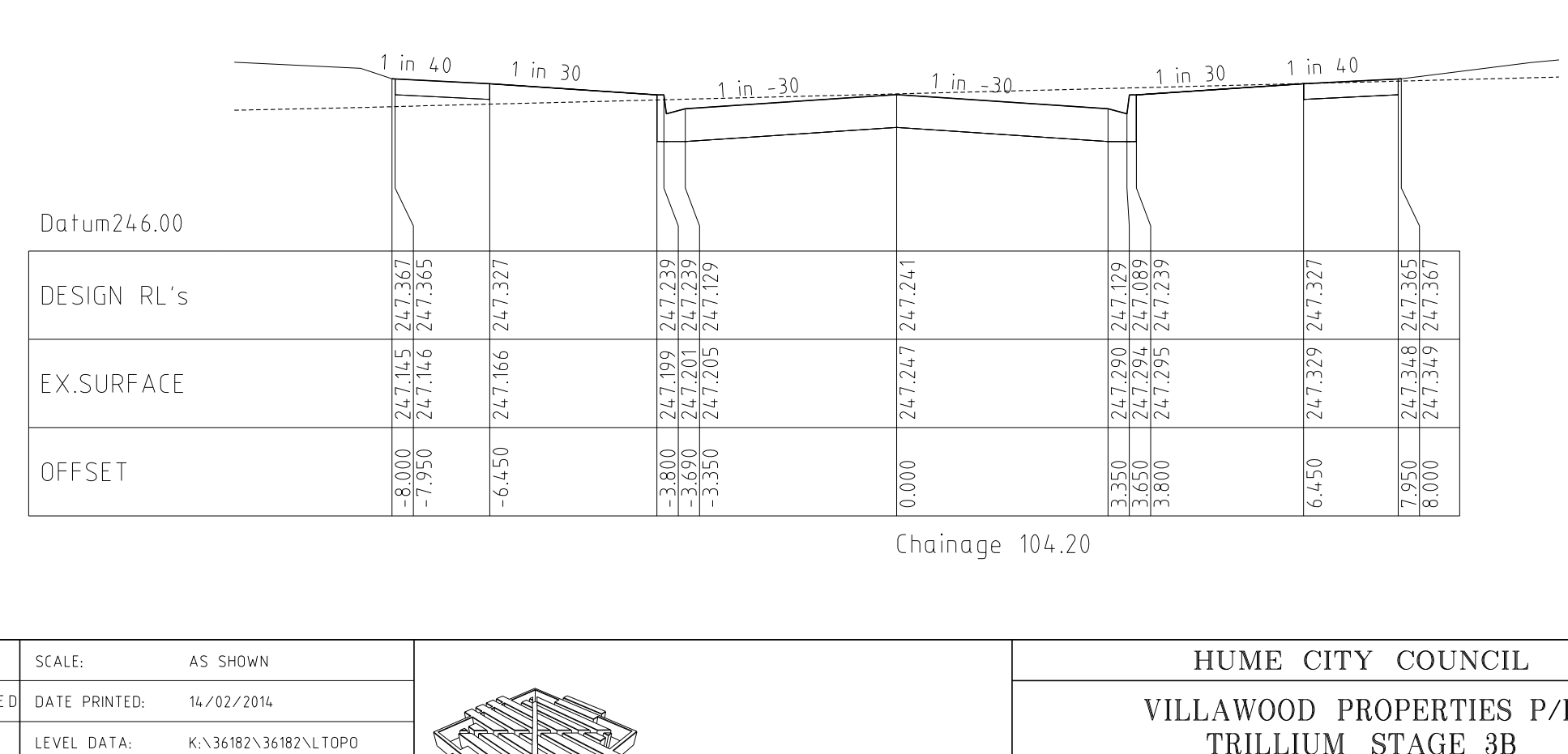
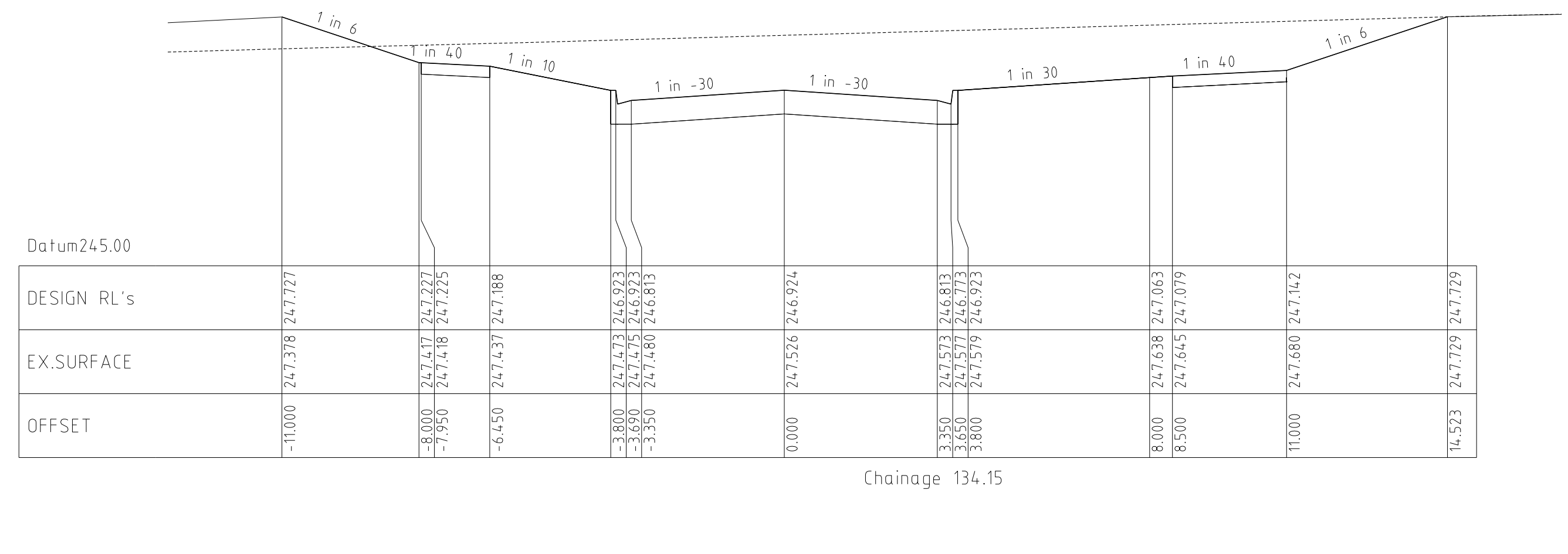
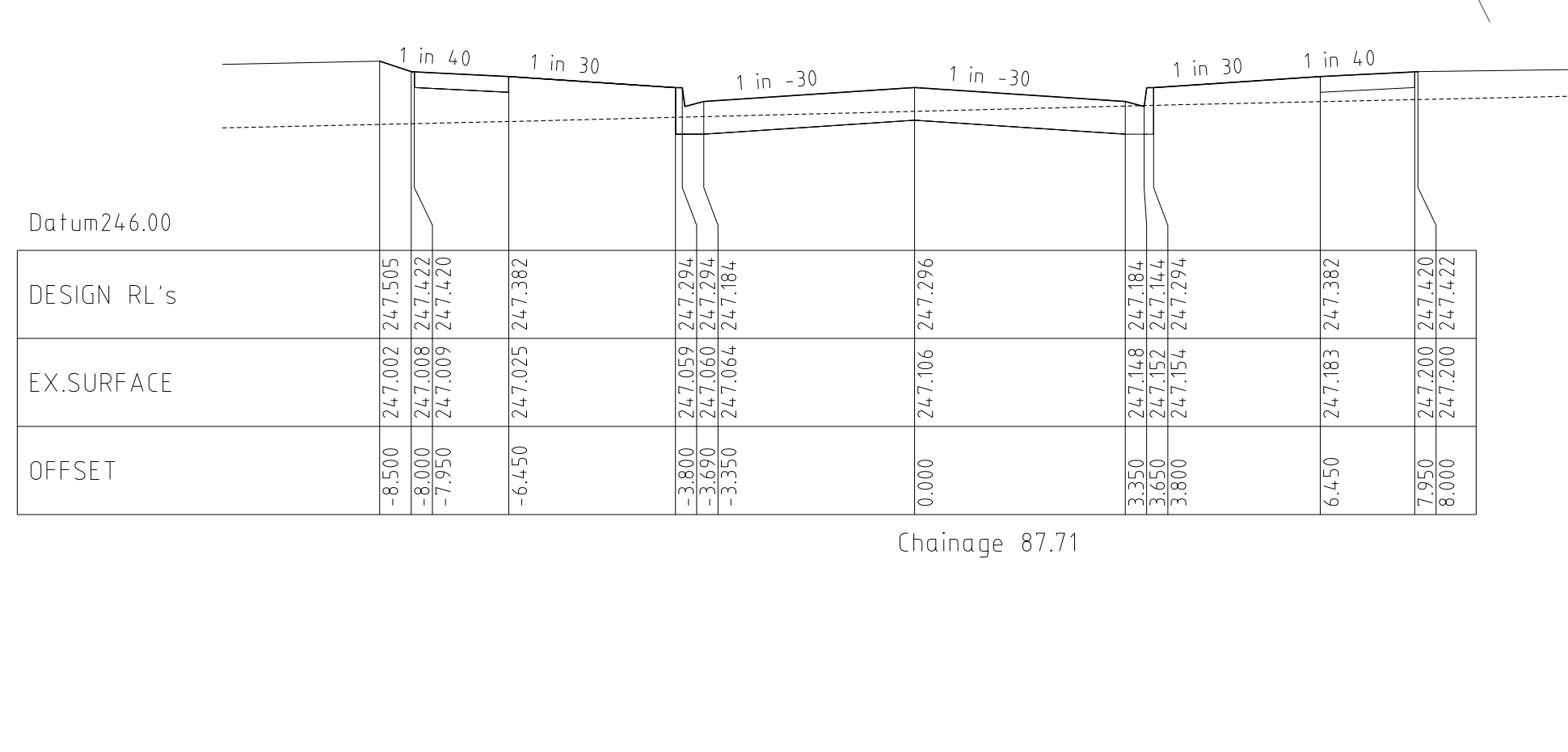
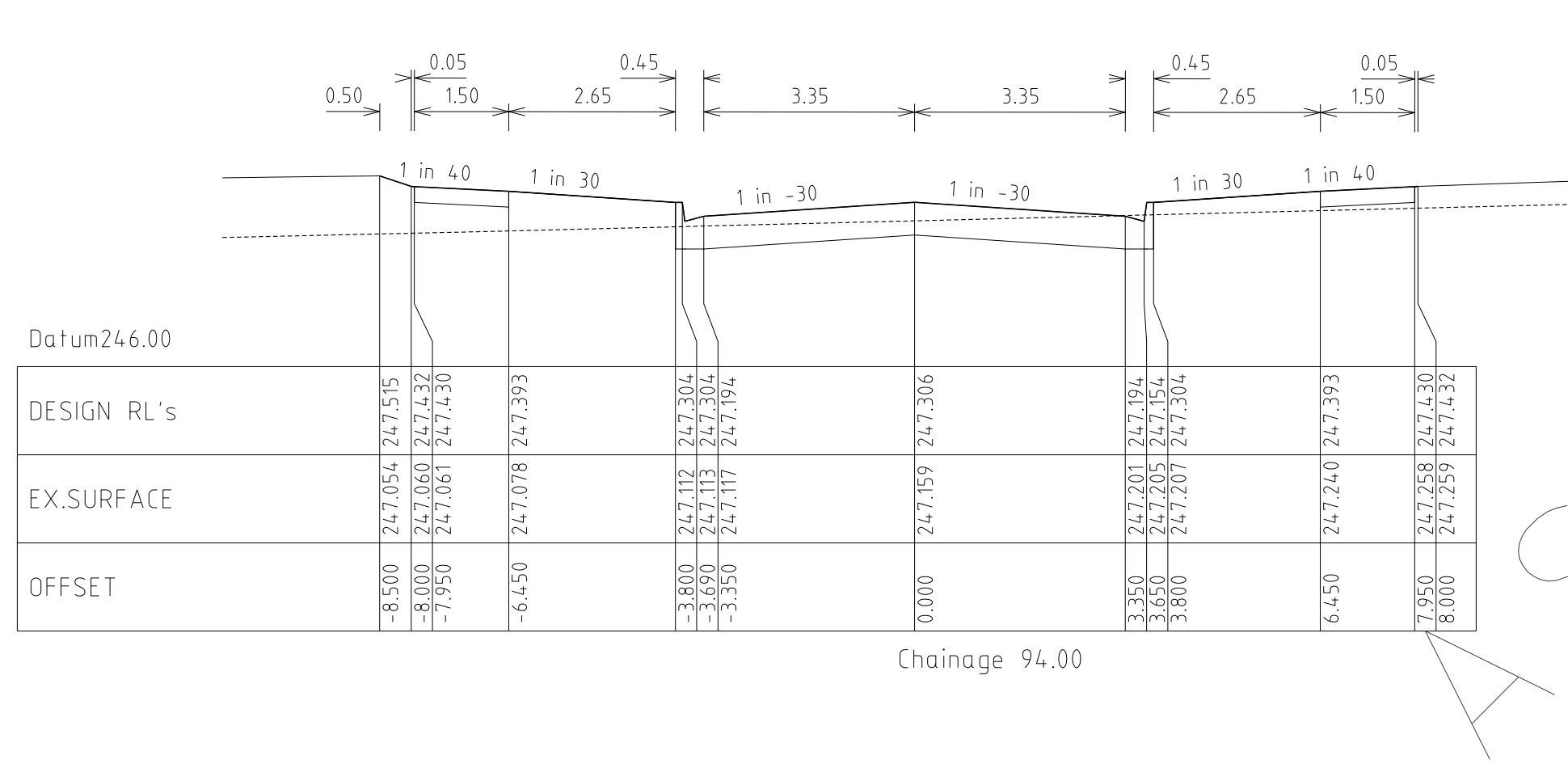
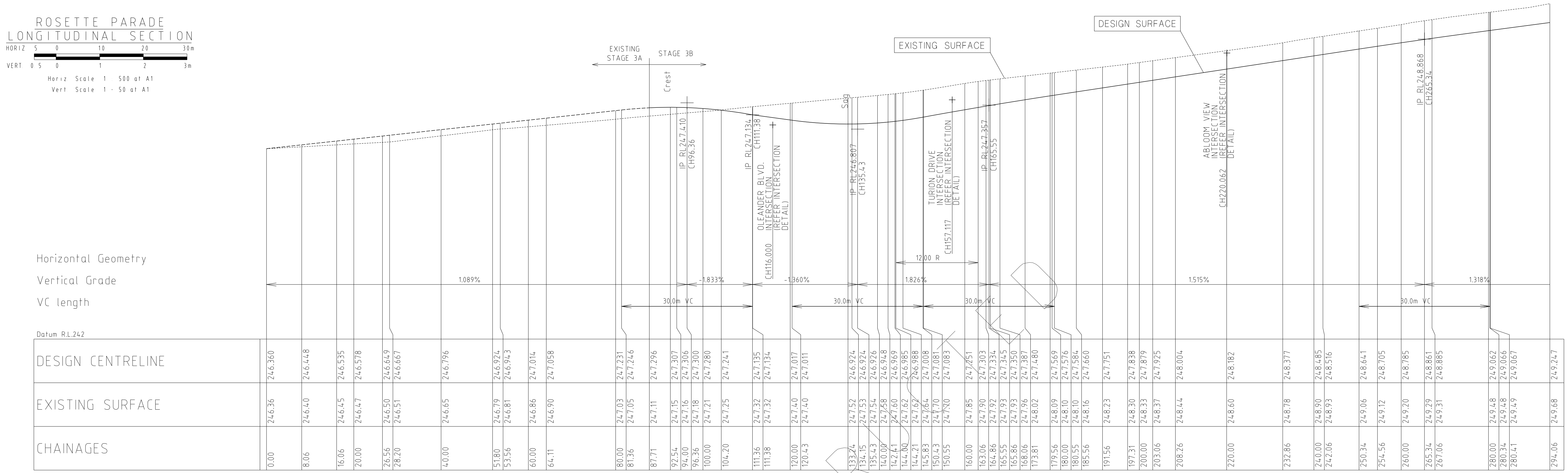
VISION N


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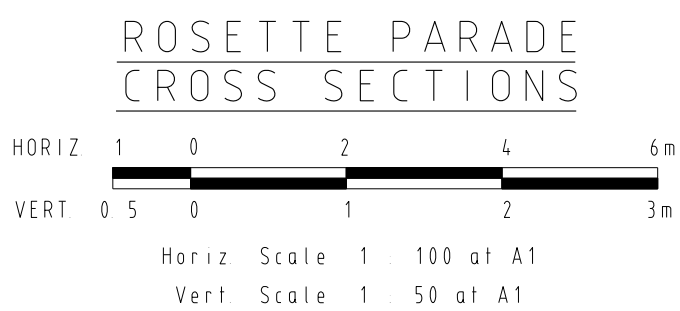
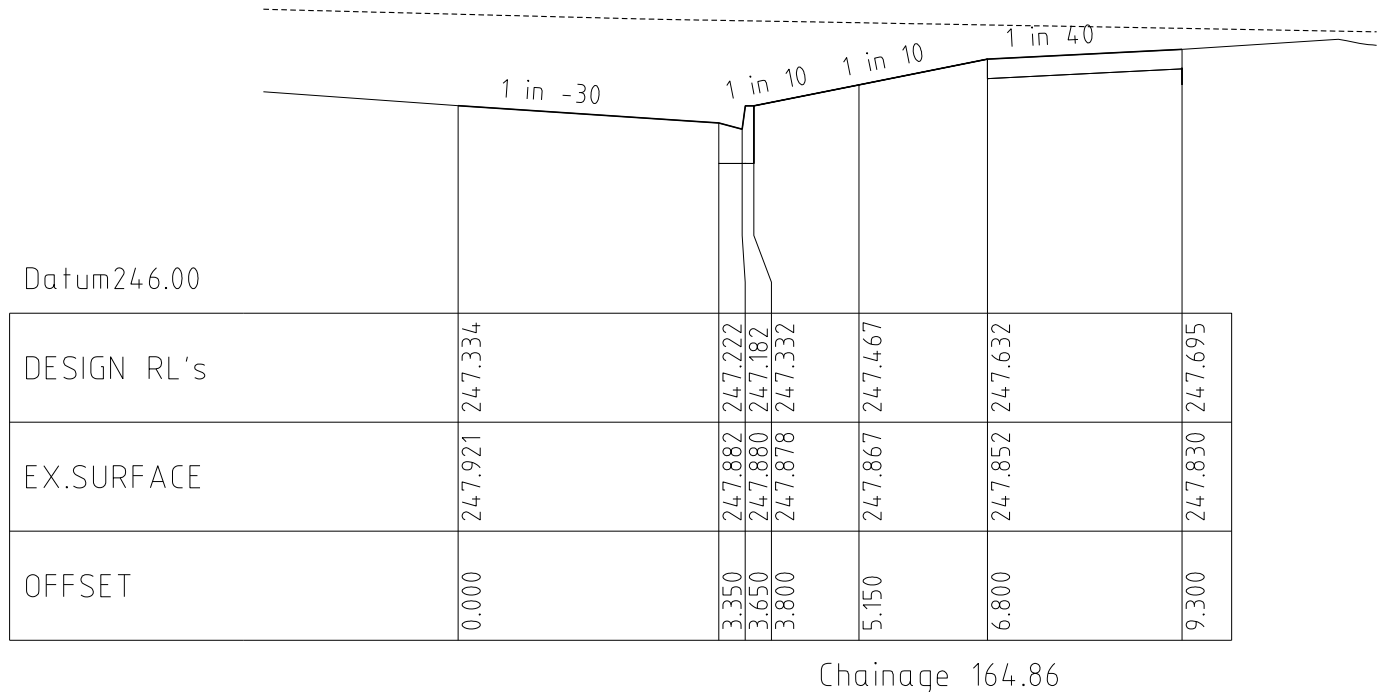
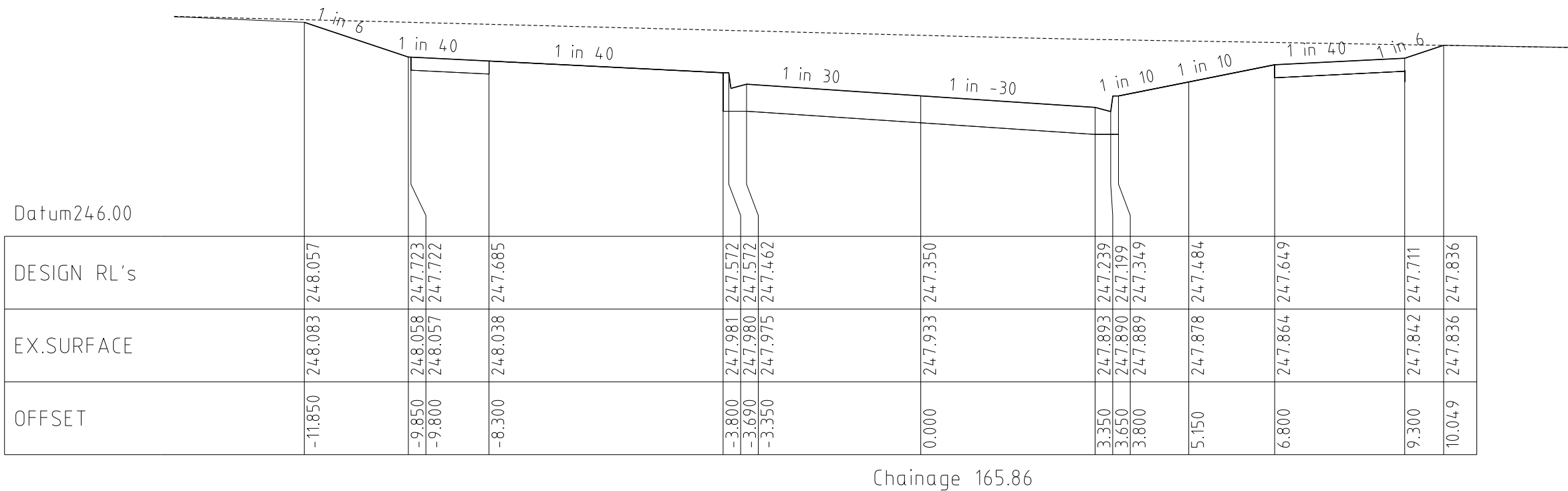
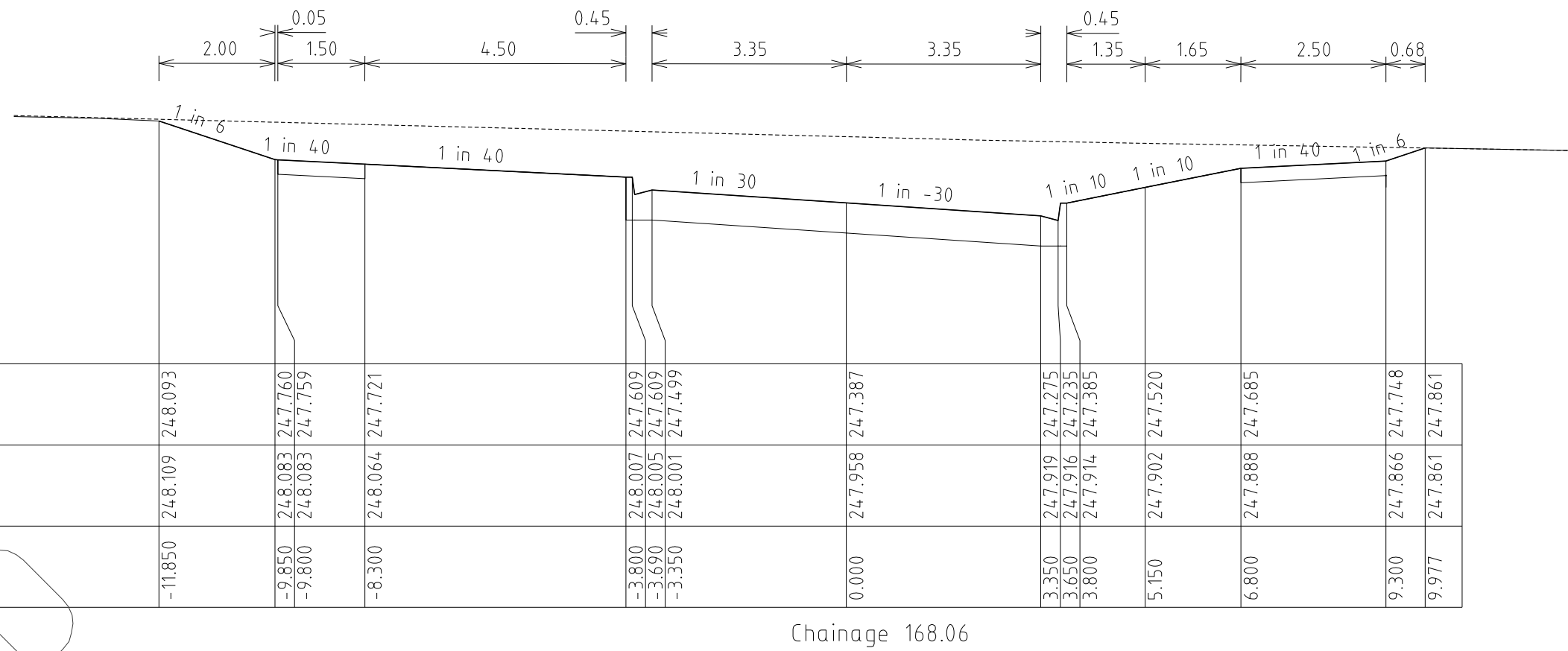
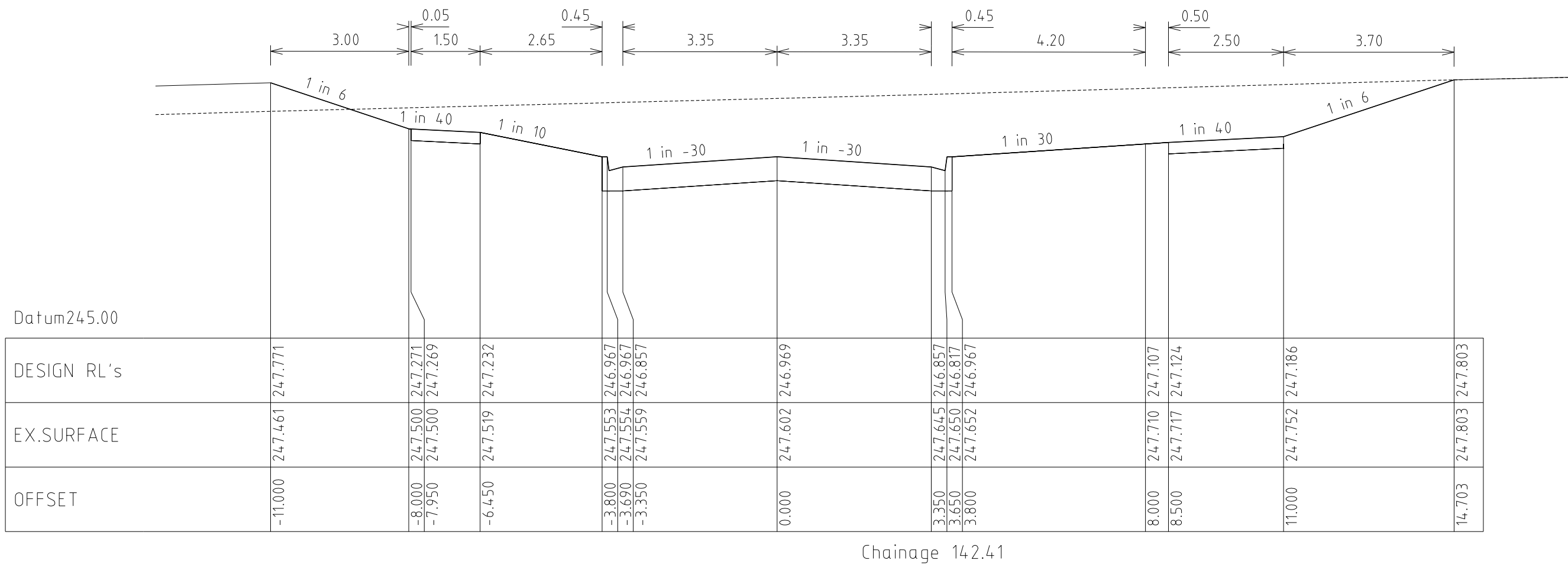
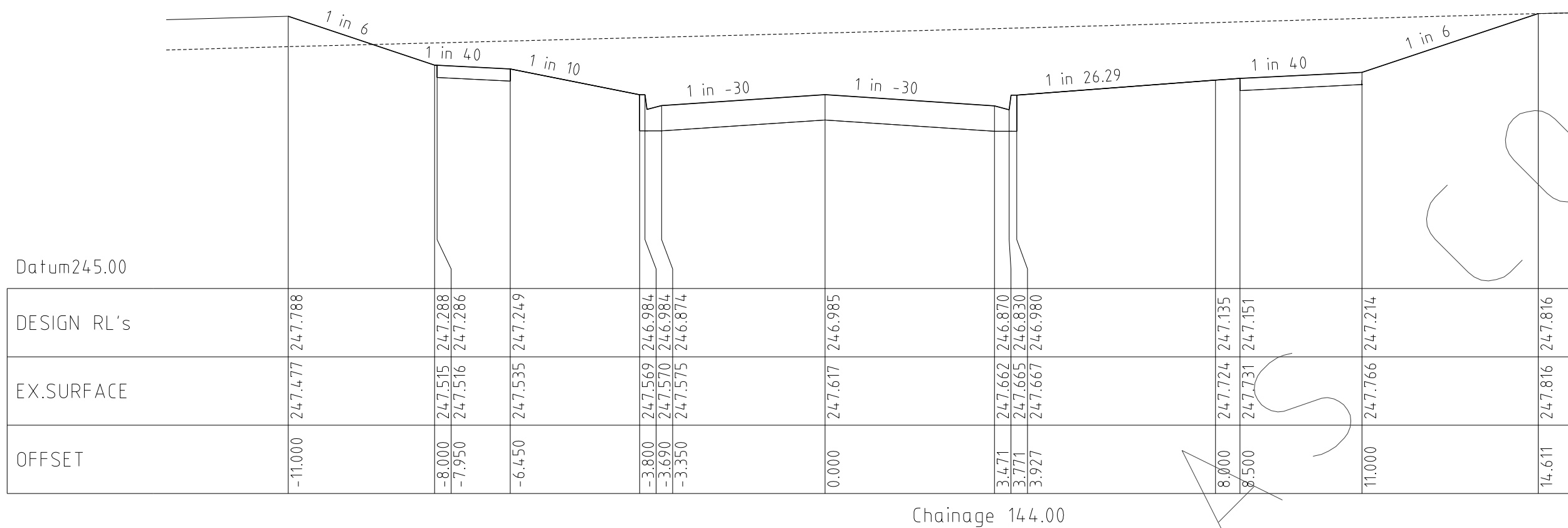
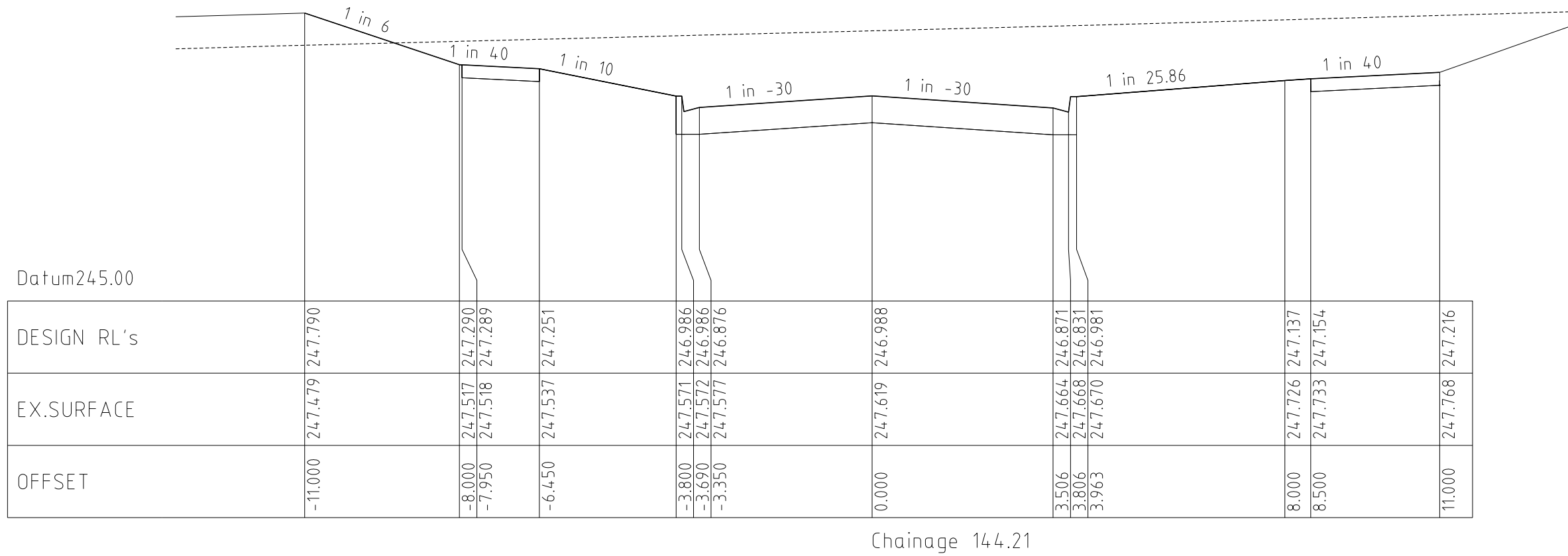
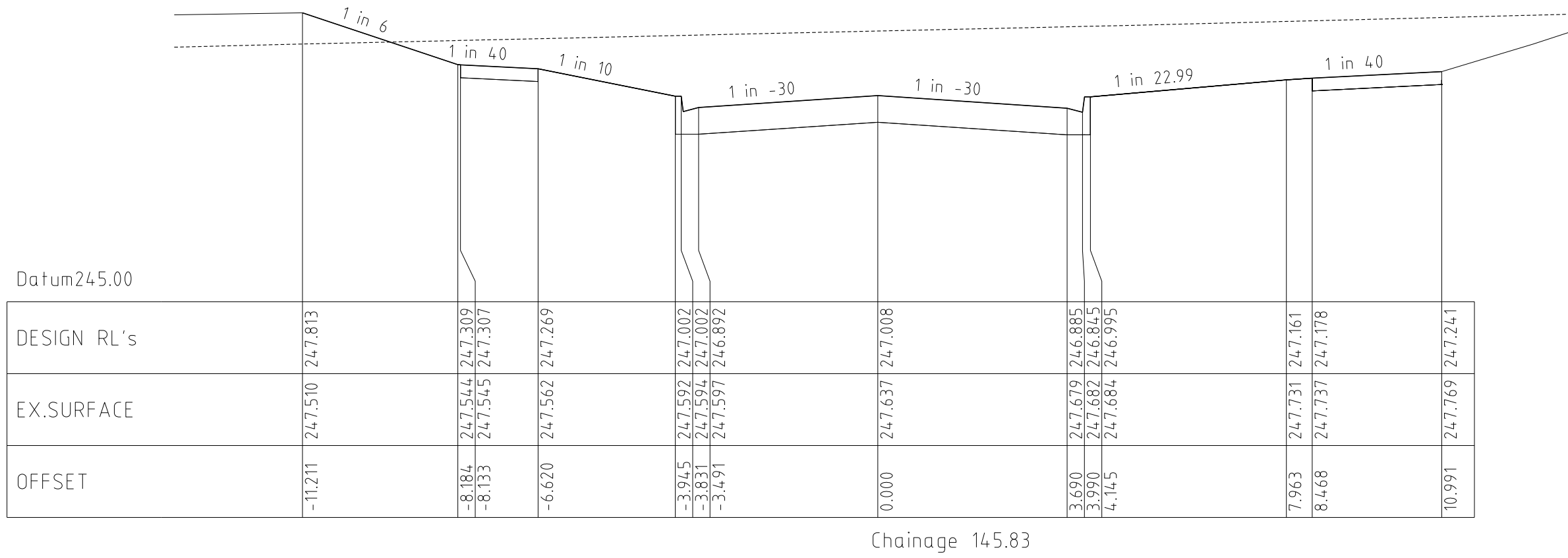


REVISIONS				SCALE: AS SHOWN		<div> WATSONS ABN 47 437 509 410</div>		HUME CITY COUNCIL		PLAN NUMBER
DATE		DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014			VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R09
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22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD					
8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B					
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	DRAWN:	C.M.B DATE: MAY 2013			GRAND BOULEVARD CROSS SECTIONS		REVISION N
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: MAY 2013			SHEET 9 OF 27		
FILENAME k \36182\36182 3b\ dgn\r09 .dgn				AUTHORISED:	A.S.C DATE: MAY 2013					

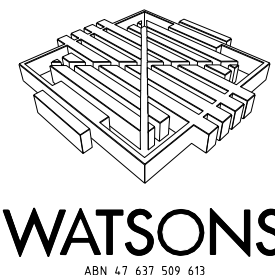


REVISIONS			SCALE: AS SHOWN		 <p>MORNINGTON 5 Main Street, P.O. Box 171, 3931 Phone: (03) 5975 4644 Fax: (03) 5975 3916 DX 93118 Mornington</p> <p>MELBOURNE The Melbourne Suite 2 250 St. Kilda Road, Melbourne, 3004 Phone: (03) 9667 8000 Fax: (03) 9667 8999</p> <p><b>WATSONS</b> ANALYTICAL</p>		HUME CITY COUNCIL		PLAN NUMBER				
DATE	DETAILS	AUTHORISED	DATE PRINTED: 14/02/2014	LEVEL DATA: K:\36182\36182\LTPOD			DATUM: AHD	PROJECT No.: 36182/3B	DRAWN: C.M.B DATE: MAY 2013	DESIGNED: Z.W.L DATE: MAY 2013	AUTHORISED: A.S.C DATE: MAY 2013	VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS	36182/3B R10
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8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC											
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC											
17/09/13	J COUNCIL REQUESTED AMENDMENTS	ASC											
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REVISIONS			SCALE: AS SHOWN	
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8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	PROJECT No.:	36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	DRAWN:	C.M.B DATE: MAY 2013
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	DESIGNED:	Z.W.L DATE: MAY 2013
FILENAME k \36182\36182 3b\dgn\c11.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



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Melbourne, 3002  
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Fax: (03) 9697 8099

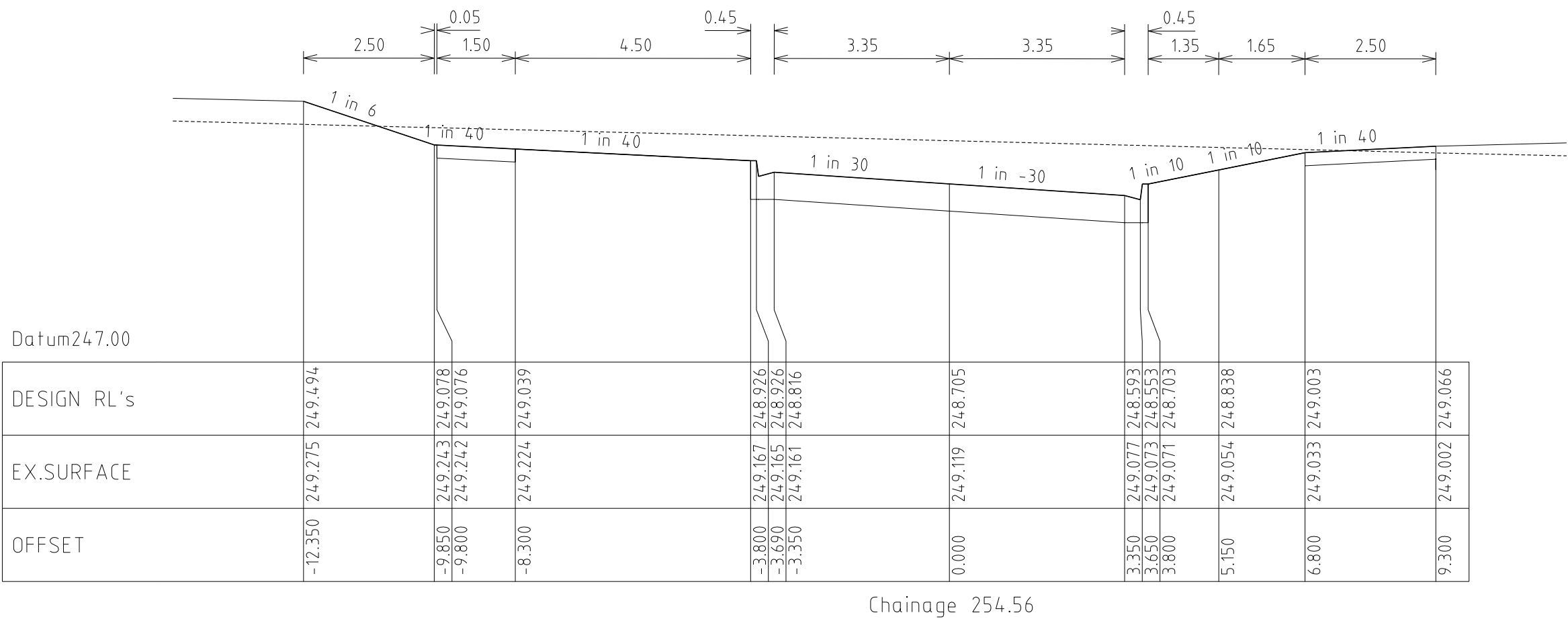
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TRILLIUM STAGE 3B  
MICKLEHAM  
ROAD AND DRAINAGE PLANS

ROSETTE PARADE  
CROSS SECTIONS

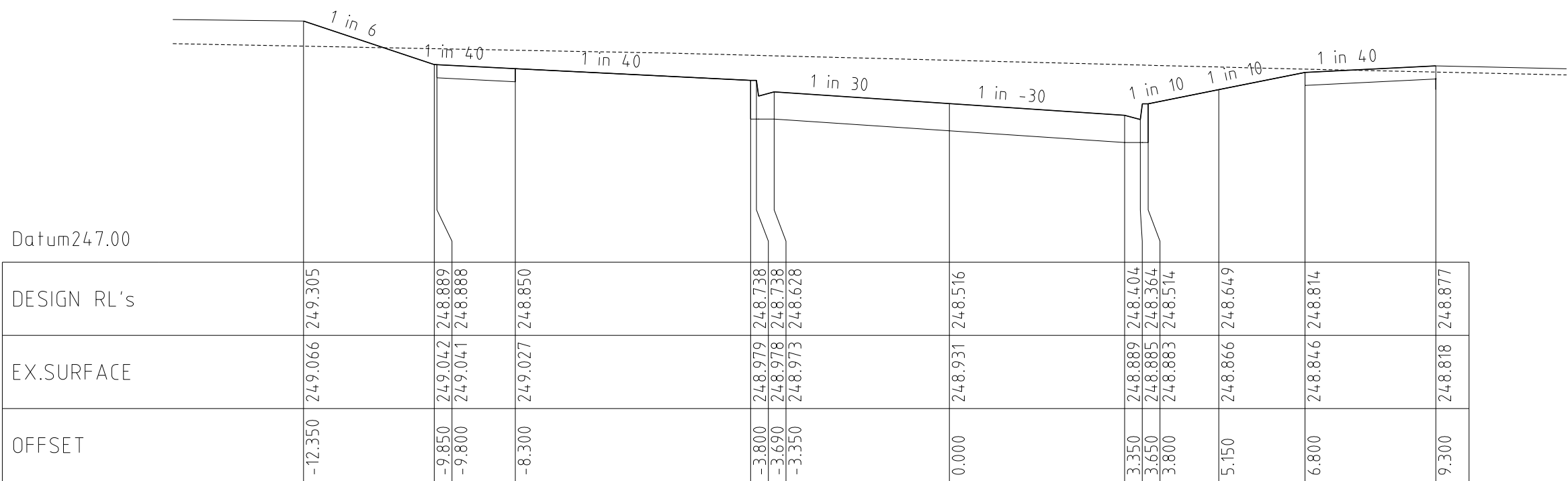
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36182/3B  
R 11  
REVISION  
N  
SHEET 11 OF 27



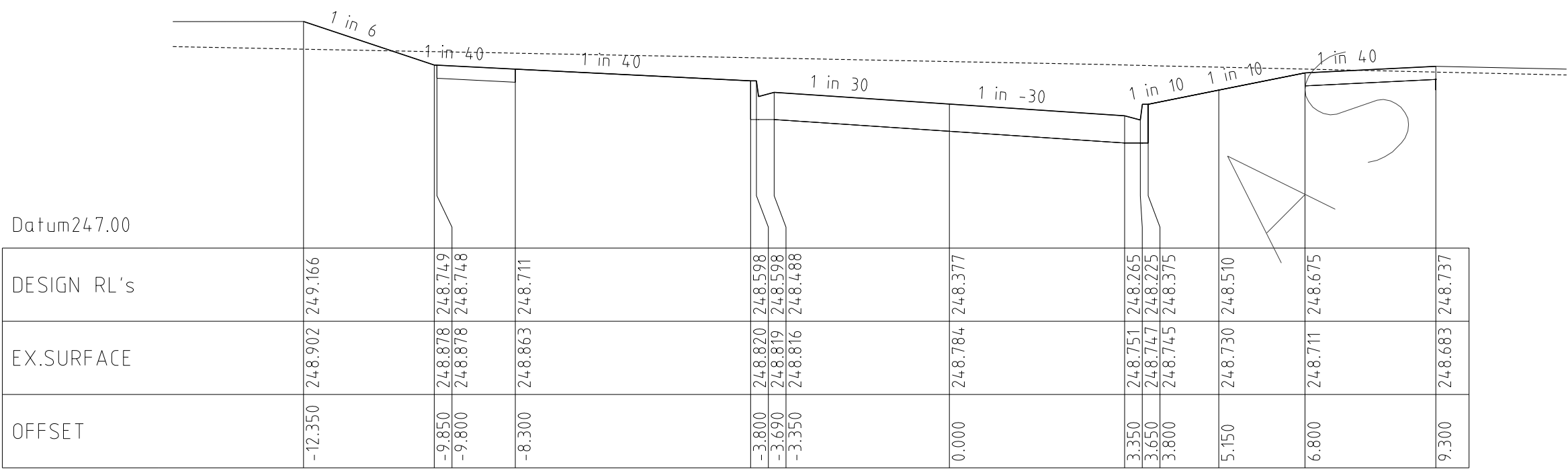




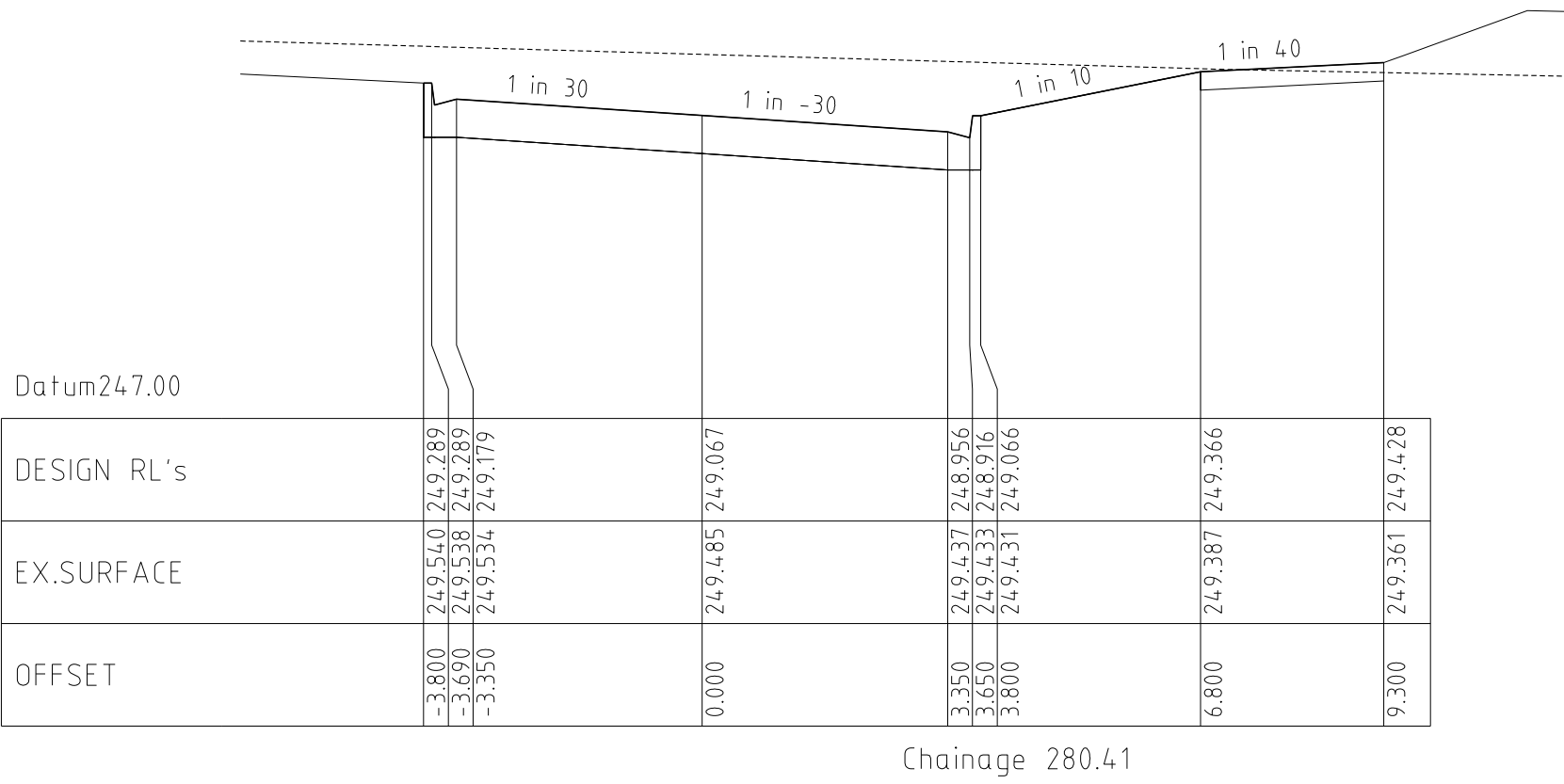
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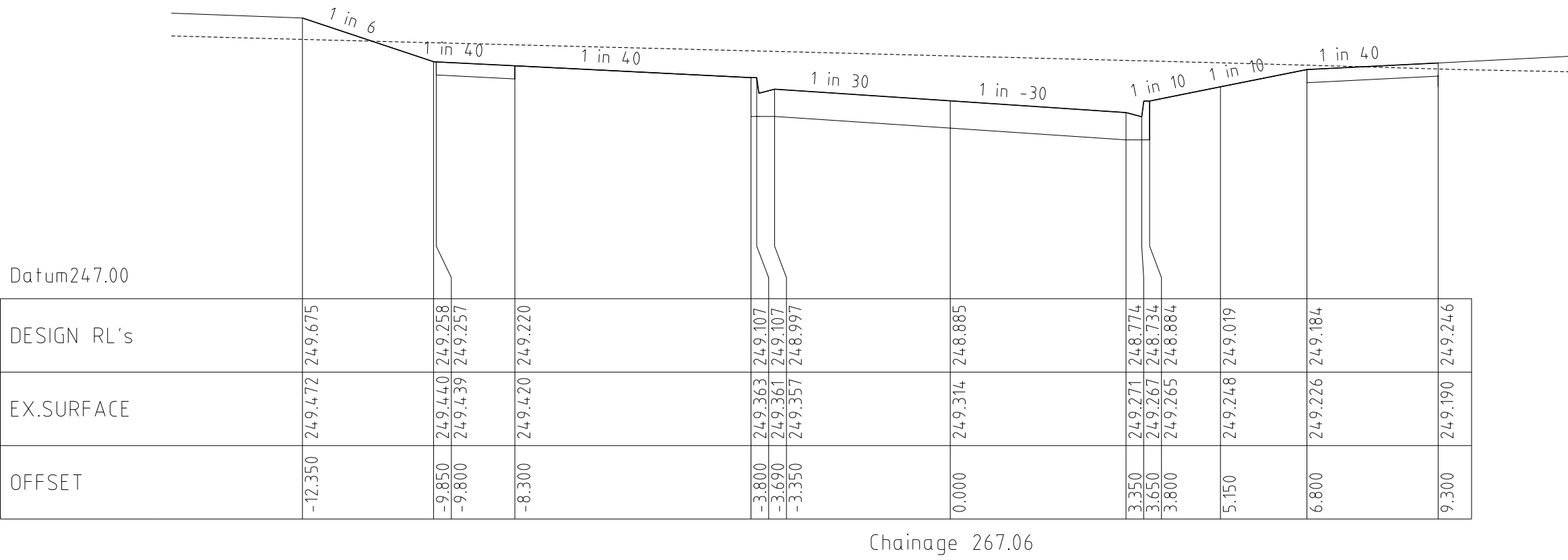
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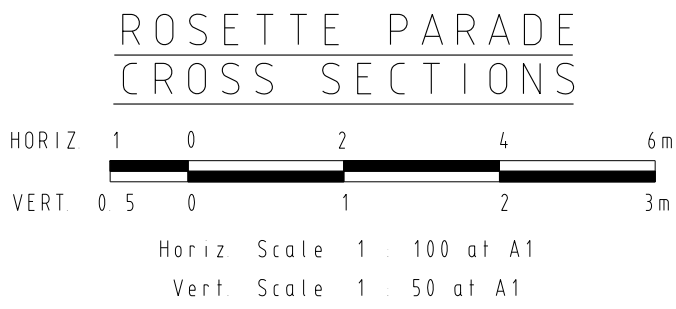
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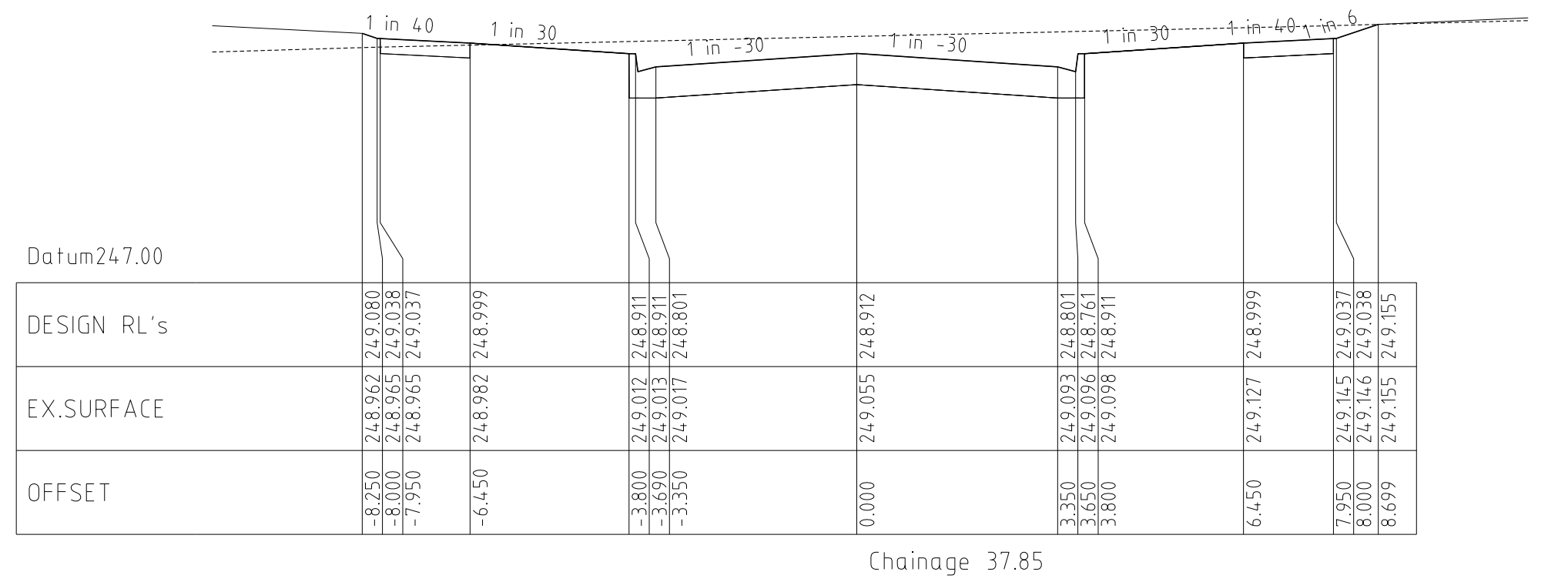
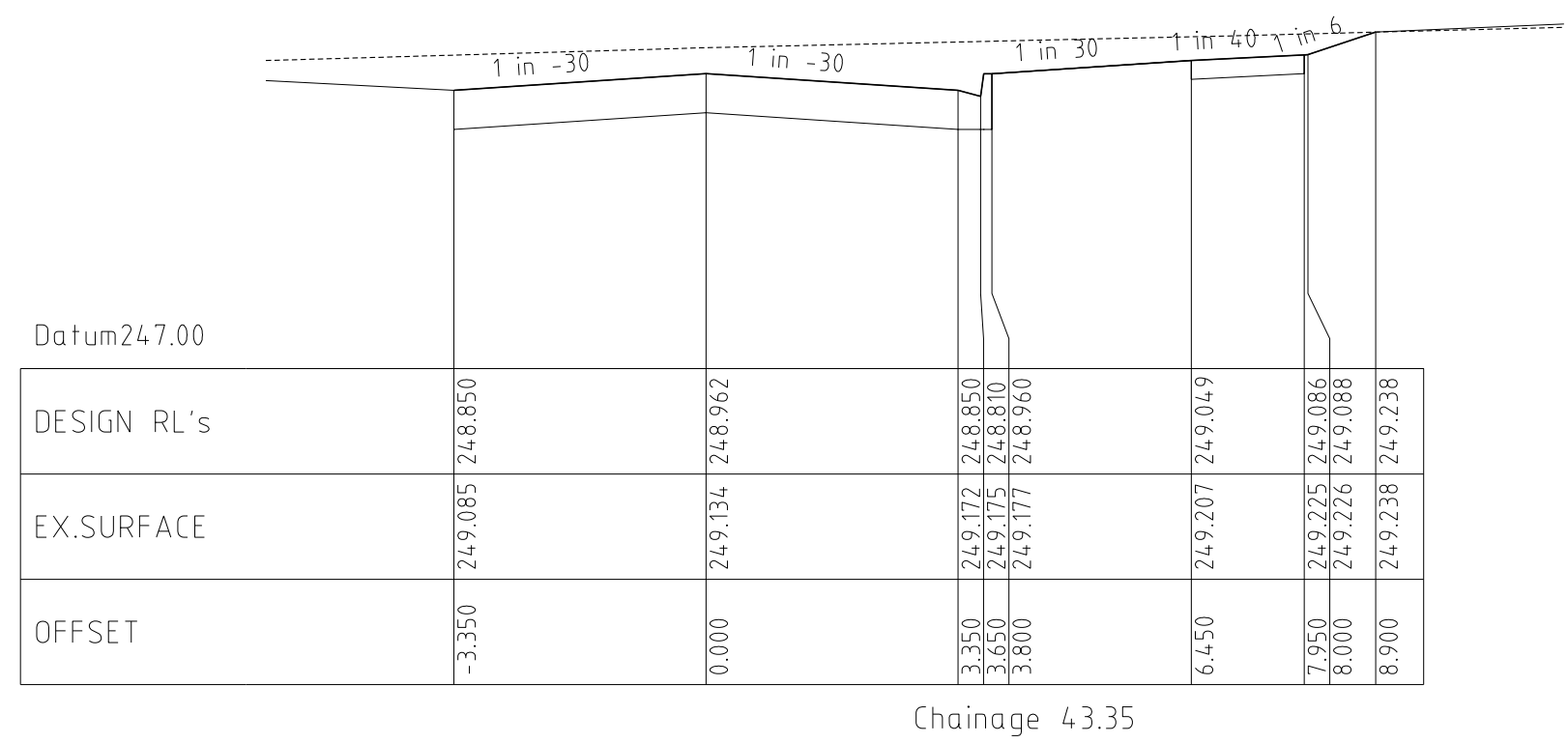
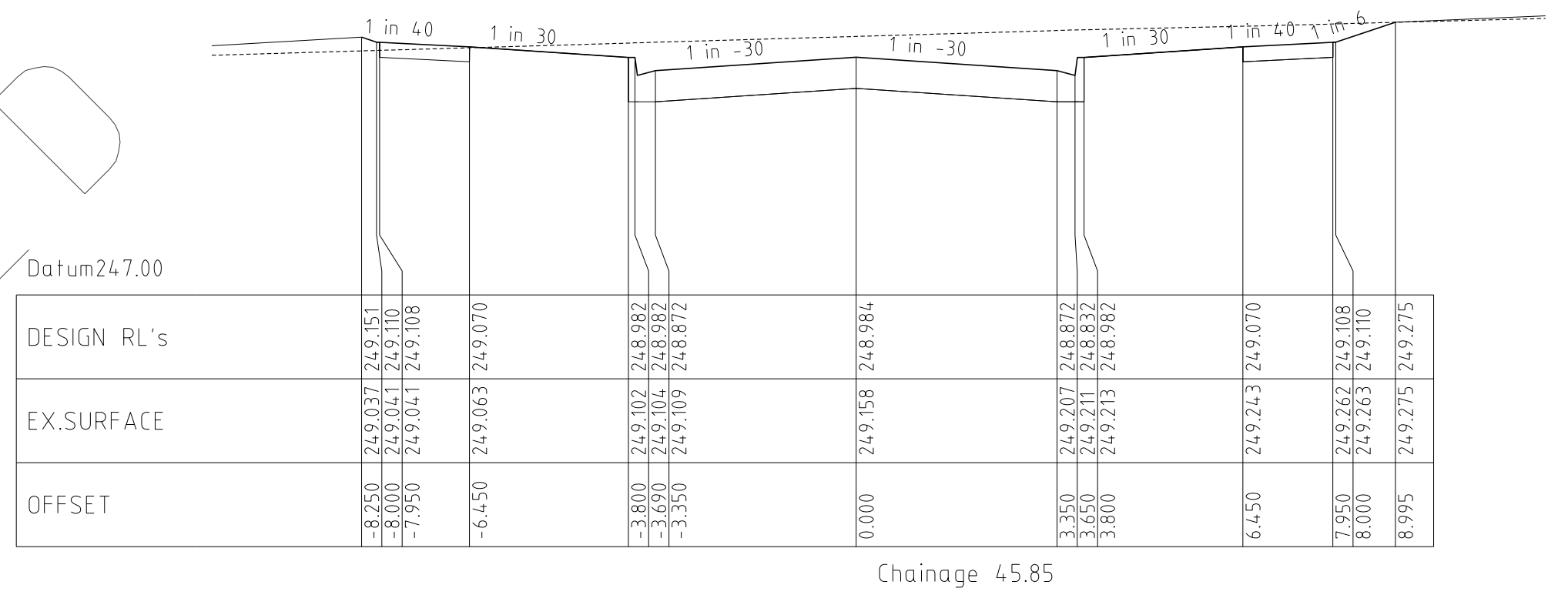
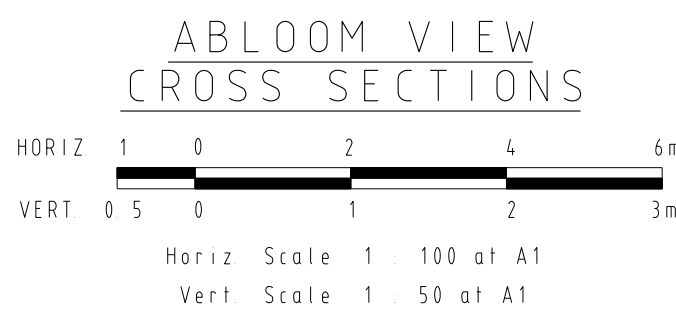
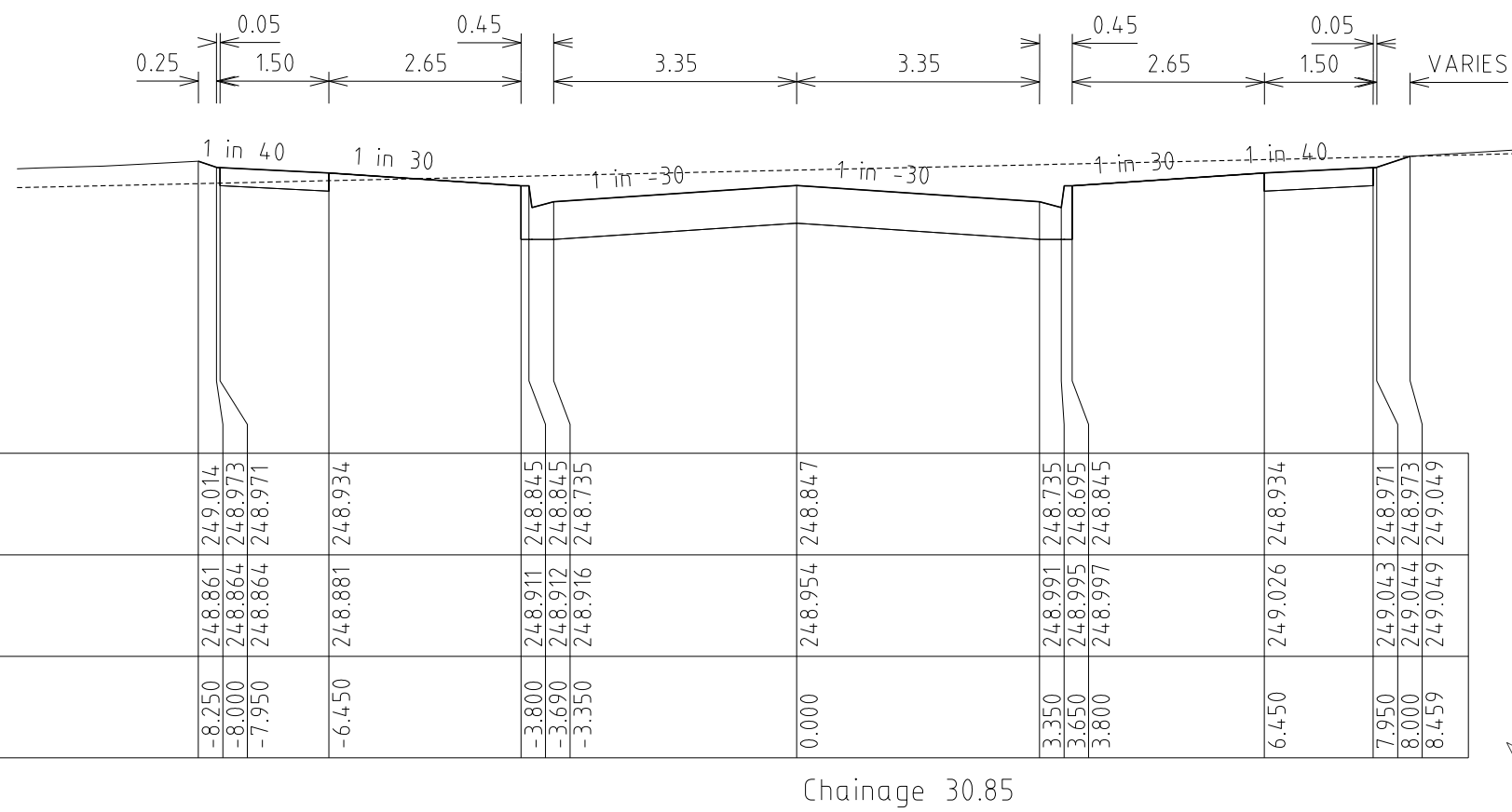
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18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	DRAWN: C.M.B. DATE: MAY 2013
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED: Z.W.L. DATE: MAY 2013
FILENAME k \36182\36182 3b\ dgn\ r13. dgn			AUTHORISED:	A.S.C. DATE: MAY 2013




MORNINGTON  
5 Main Street,  
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OX 93118 Mornington

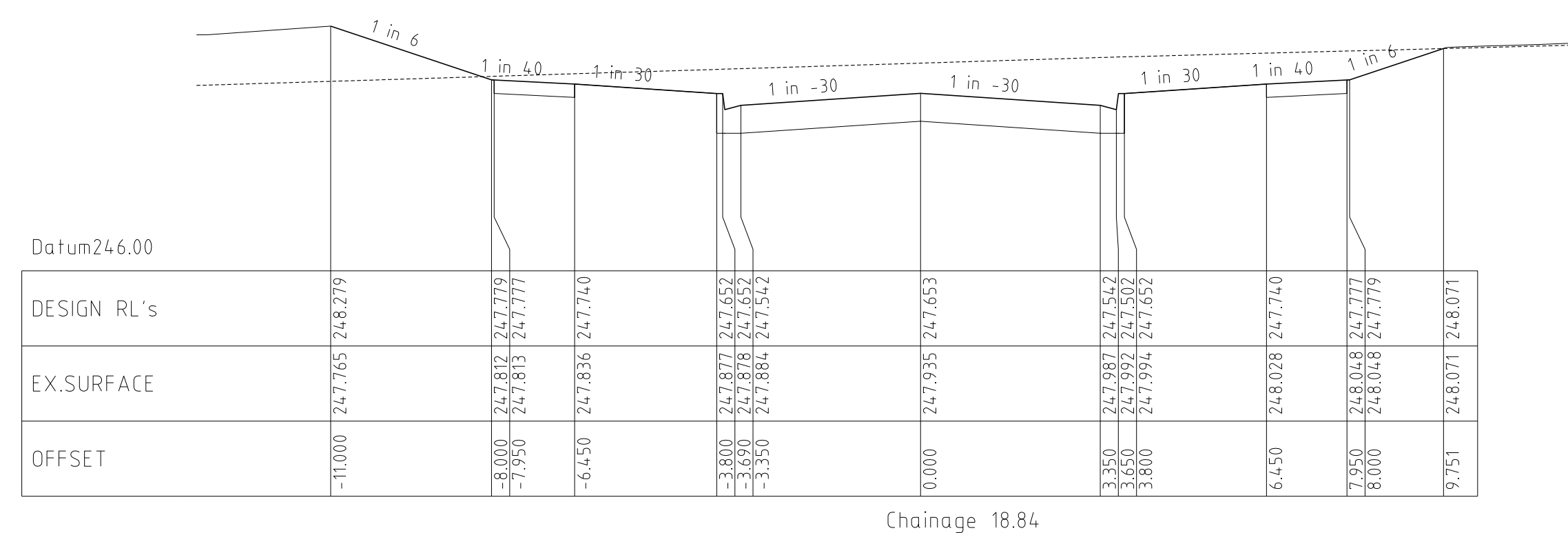
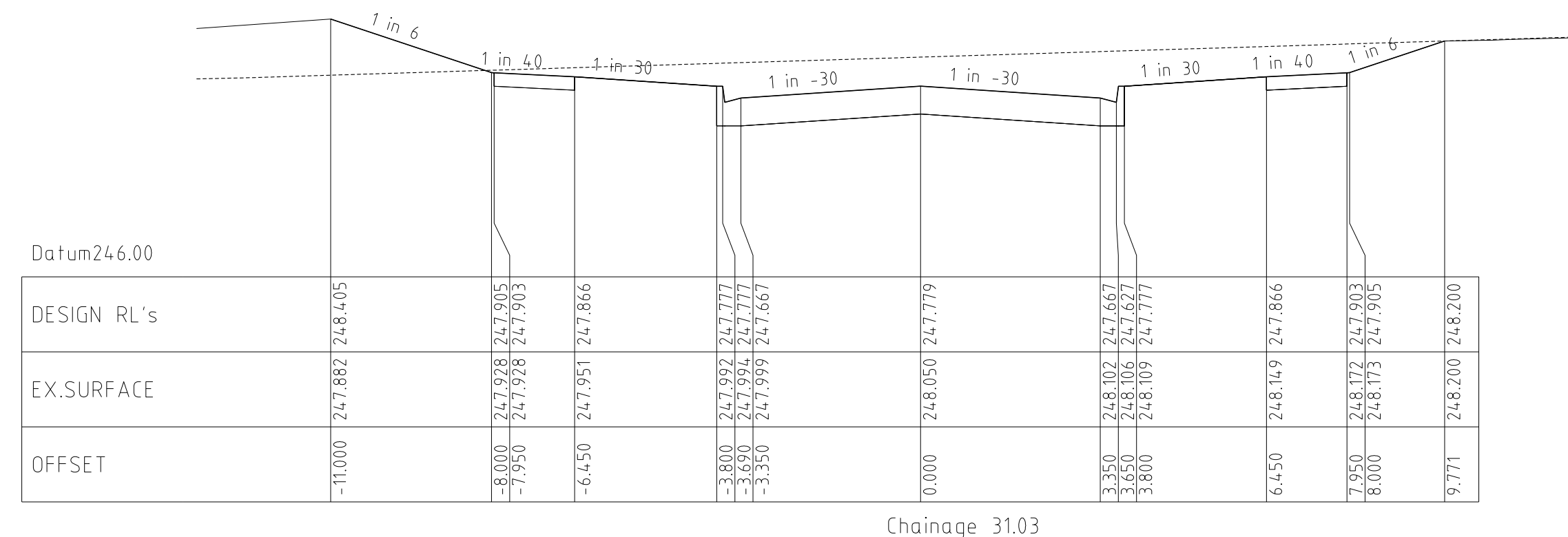
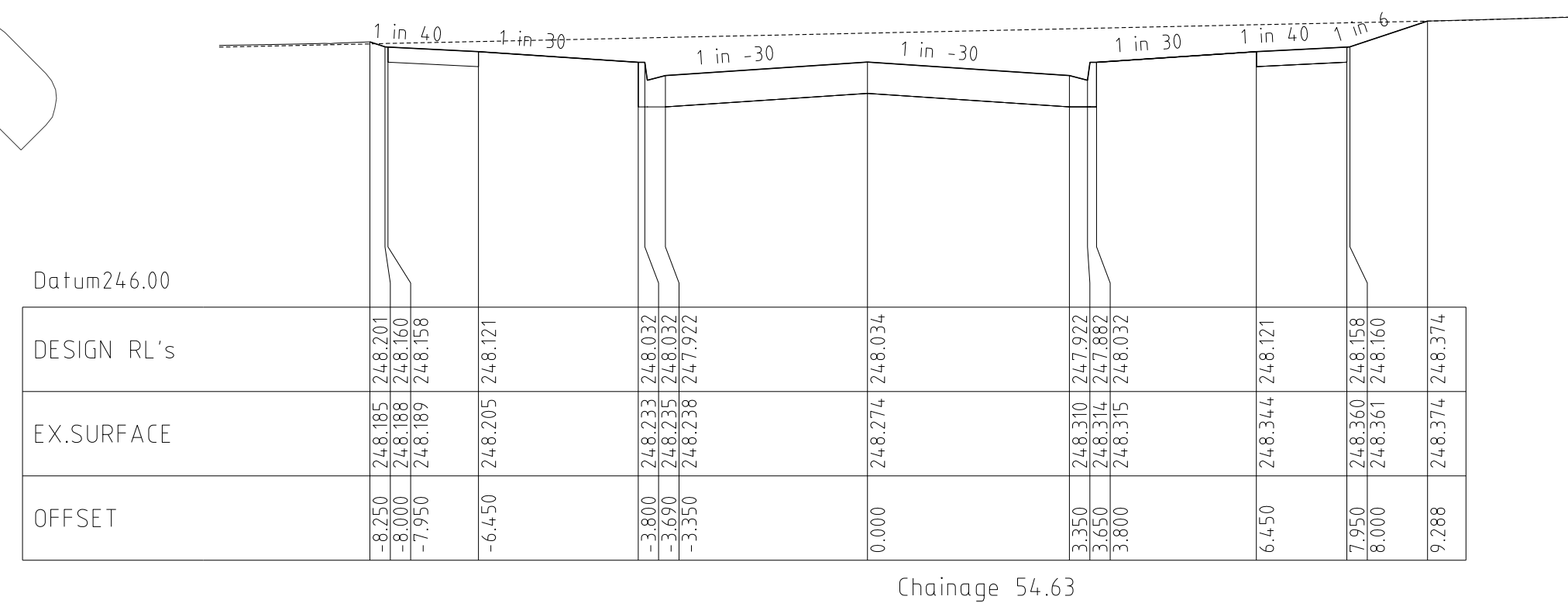
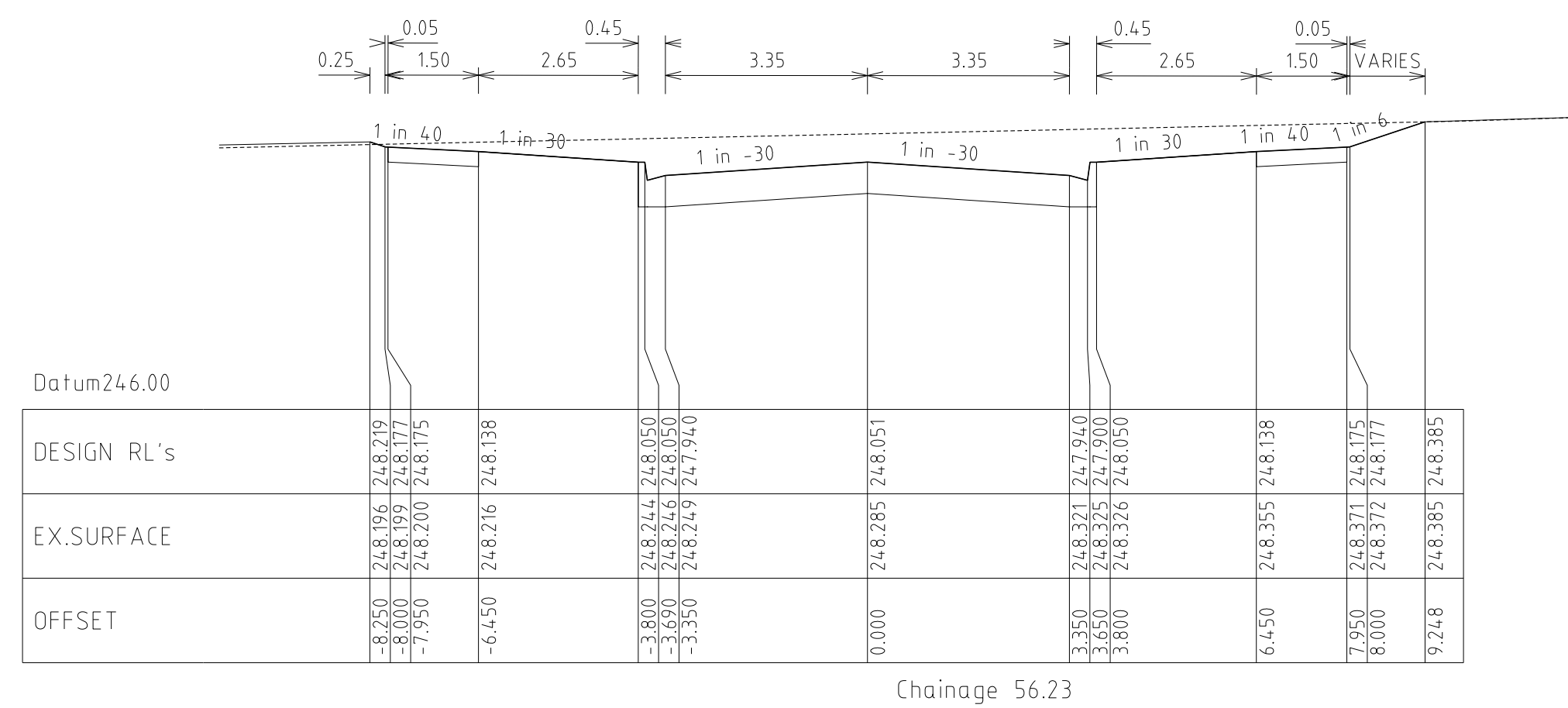
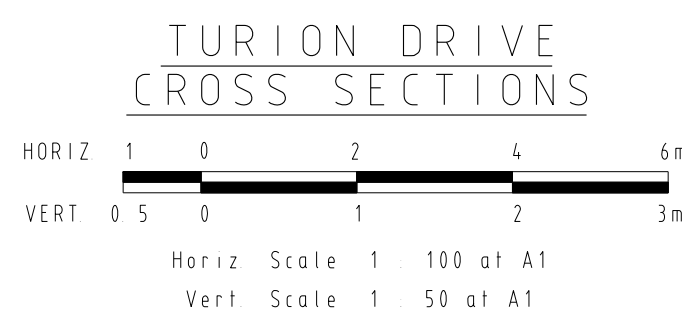
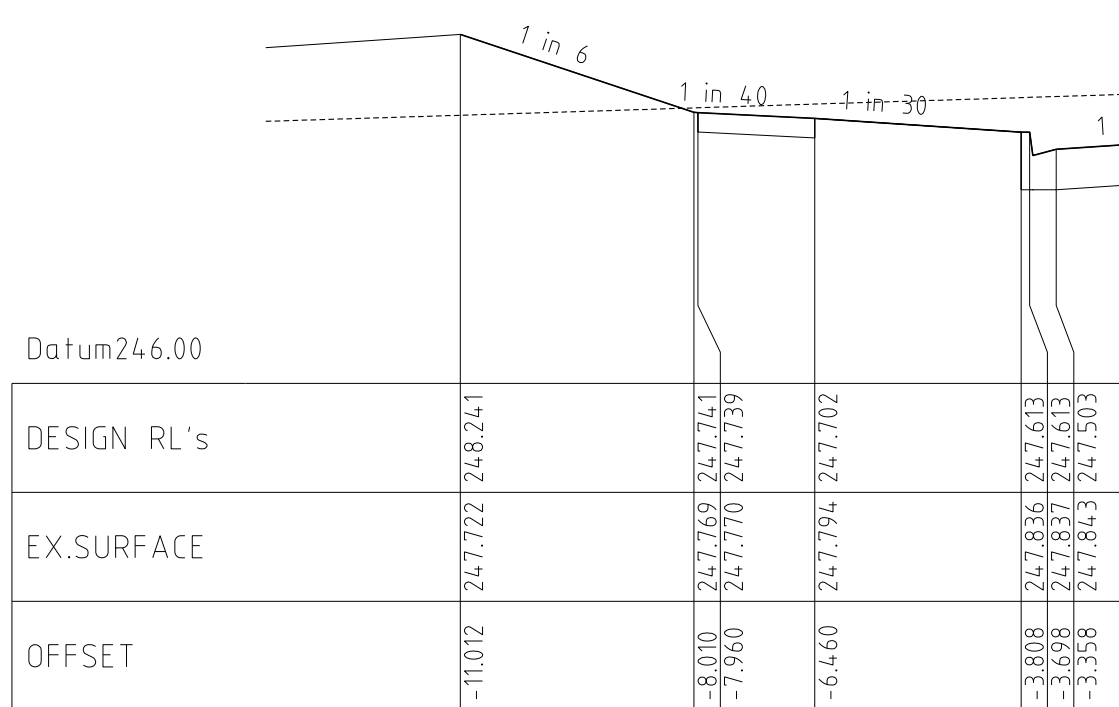
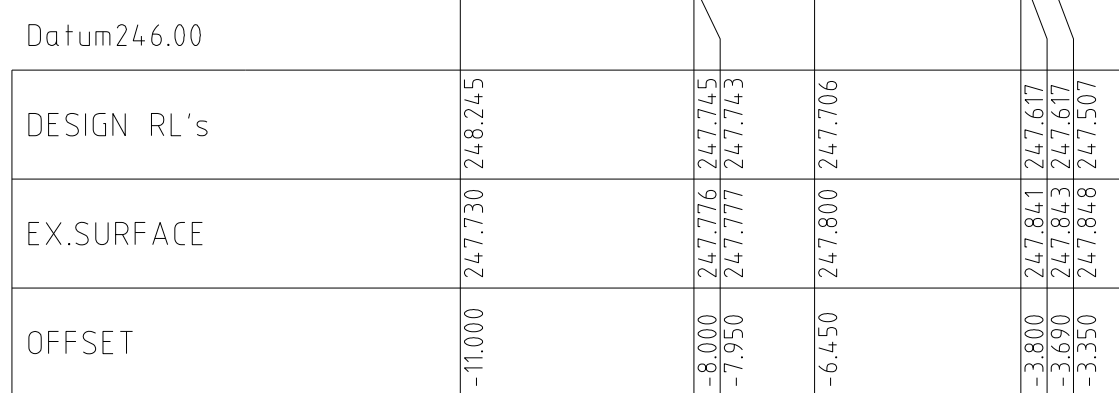
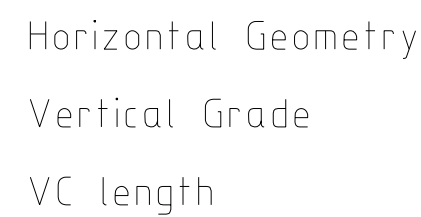
MELBOURNE  
The Melbourne, Suite 2  
250 St. Kilda Road,  
Melbourne, 3004  
Phone: (03) 9697 8000  
Fax: (03) 9697 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R13
ROSETTE PARADE CROSS SECTIONS		REVISION N
		SHEET 13 OF 27

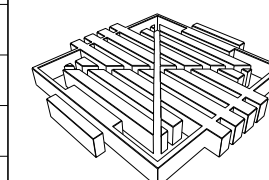


REVISIONS				SCALE: AS SHOWN		 <p><b>WATSONS</b> ARCHITECTS BOX 17 637 200 473</p> <p><b>MORNINGTON</b> 5 Main Street P.O. Box 171 3937 Phone: (03) 5975 4664 Fax: (03) 5975 3916 DX: 93118 Mornington</p> <p><b>MELBOURNE</b> The Melbourne, Suite 2 250 St. Kilda Road Melbourne, 3004 Phone: (03) 9697 8099 Fax: (03) 9697 8099</p> <th colspan="2">HUME CITY COUNCIL</th> <th>PLAN NUMBER</th>		HUME CITY COUNCIL		PLAN NUMBER					
DATE		DETAILS	AUTHORISED	DATE PRINTED: 14/02/2014	LEVEL DATA: K:\36182\36182\LTGPO			DATE:	AHD	PROJECT No.: 36182/3B	DRAWN: C.M.B DATE: MAY 2013	DESIGNED: Z.W.L DATE: MAY 2013	AUTHORISED: ASC DATE: MAY 2013	VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS	
14/02/14	N	AS CONSTRUCTED	ASC												REVISION N
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC												SHEET 14 OF 27
8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC												
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC												
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	ASC												
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REVISIONS					SCALE:	AS SHOWN	
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17/09/13	J	COUNCIL REQUESTED AMENDMENTS		ASC	DESIGNED:	ZWL	DATE: MAY 2013
FILENAME\K\36182\36182\3b\ dgn\ r15_ dgn					AUTHORISED:	ASC	DATE: MAY 2013



**WATSON'S**  
JBN 47 637 592 613

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HUME CITY COUNCIL  
VILLAWOOD PROPERTIES P/L  
TRILLIUM STAGE 3B  
MICKLEHAM  
ROAD AND DRAINAGE PLANS

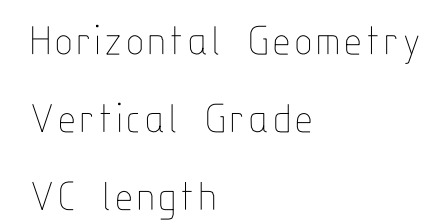
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LONGITUDINAL & CROSS SECTIONS

PLAN NUMBER

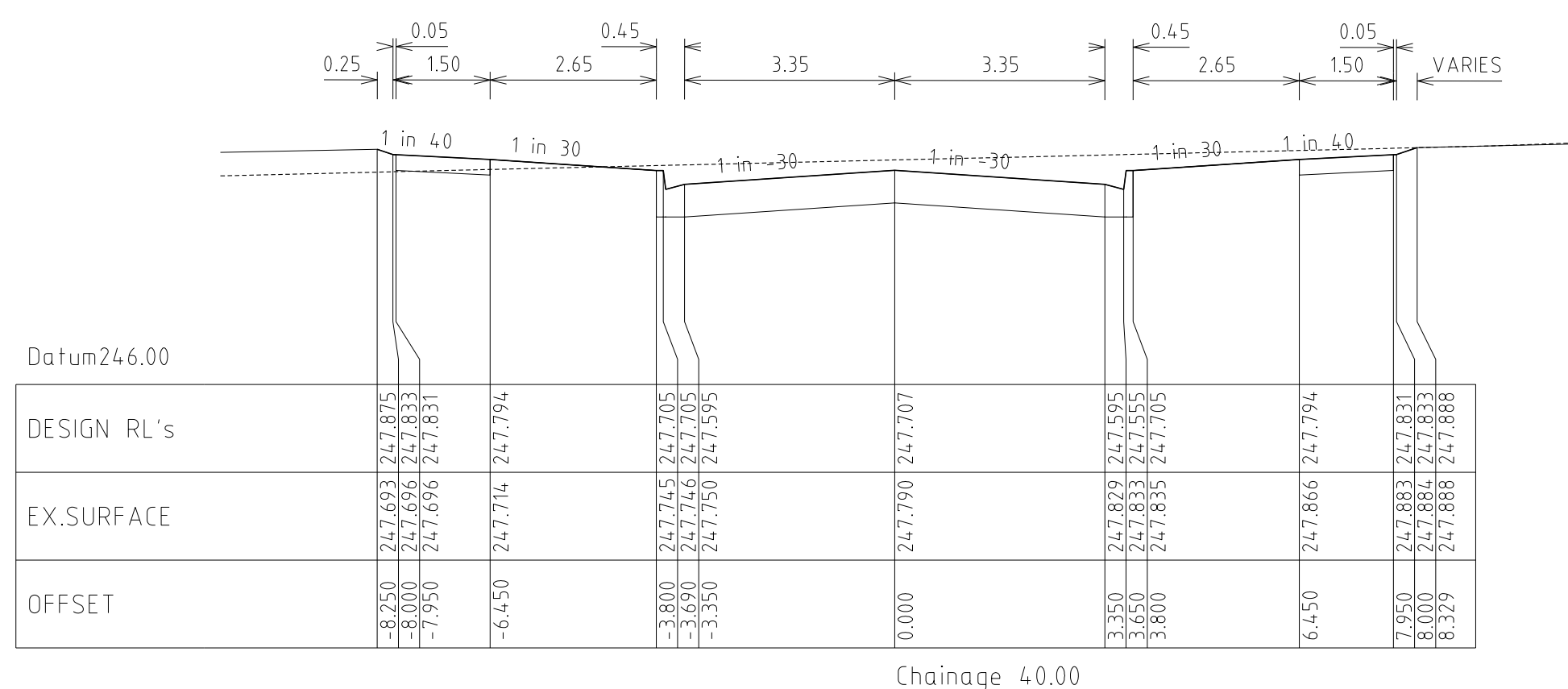
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R15

REVISION N

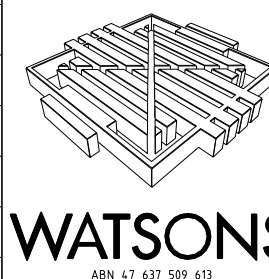
SHEET 15 OF 27



CHAINAGES	EXISTING SURFACE	DESIGN CENTRELINE
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23.58	247.90	247.827
40.00	247.79	247.707
60.00	247.62	247.561
80.00	247.46	247.414
100.00	247.23	247.268
114.27	247.07	247.163
120.00	247.01	247.122
139.27	246.89	246.994
140.00	246.89	246.989
160.00	246.85	246.875
164.27	246.86	246.853



REVISONS				SCALE: AS SHOWN	
DATE	DETAILS		AUTHORISED	DATE PRINTED:	14/02/2014
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HUME CITY COUNCIL  
VILLAWOOD PROPERTIES P/L  
TRILLIUM STAGE 3B  
MICKLEHAM  
ROAD AND DRAINAGE PLANS

PLAN NUMBER

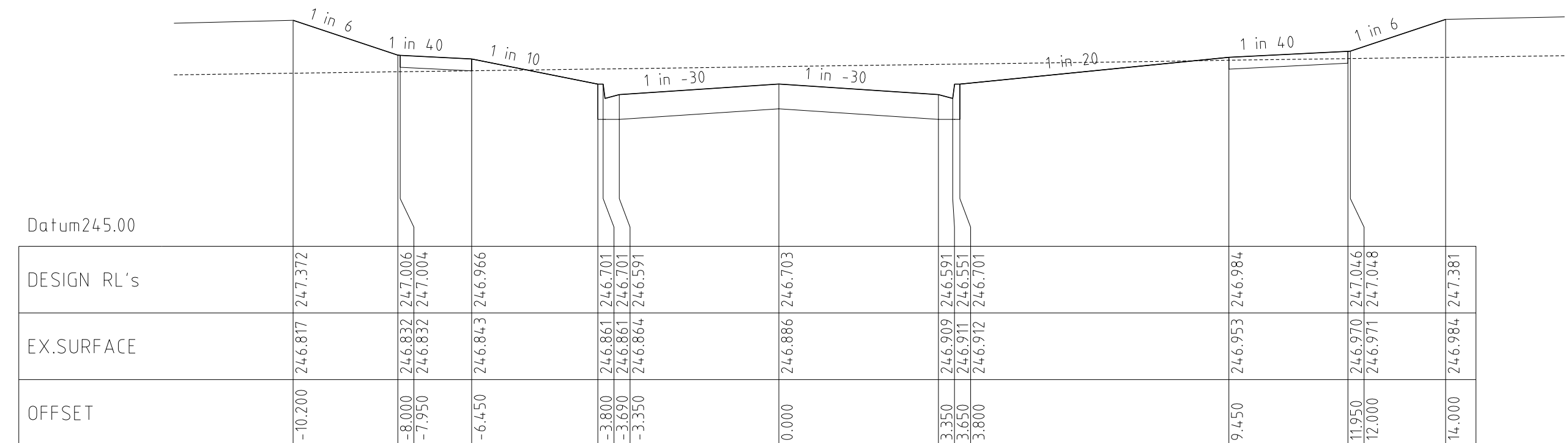
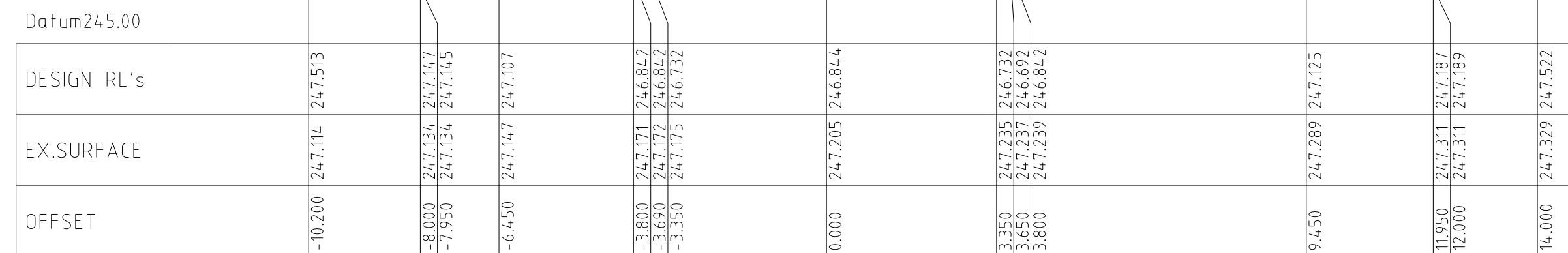
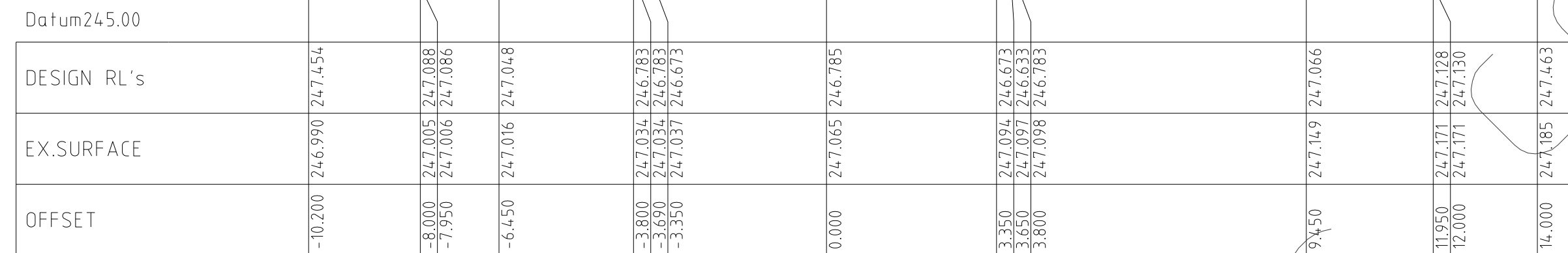
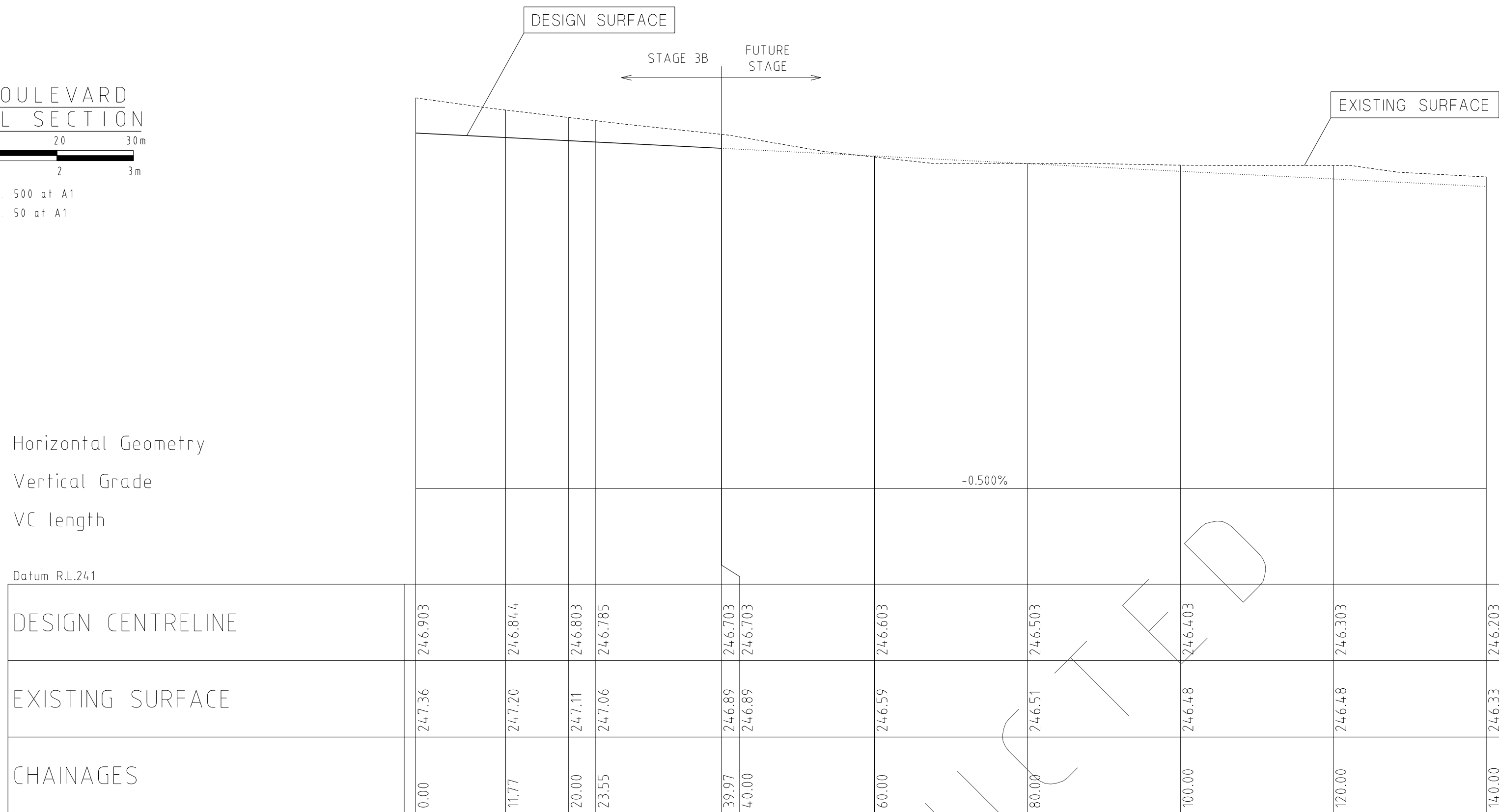
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R16

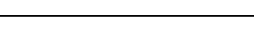
MUSKWOOD DRIVE  
LONGITUDINAL & CROSS SECTIONS

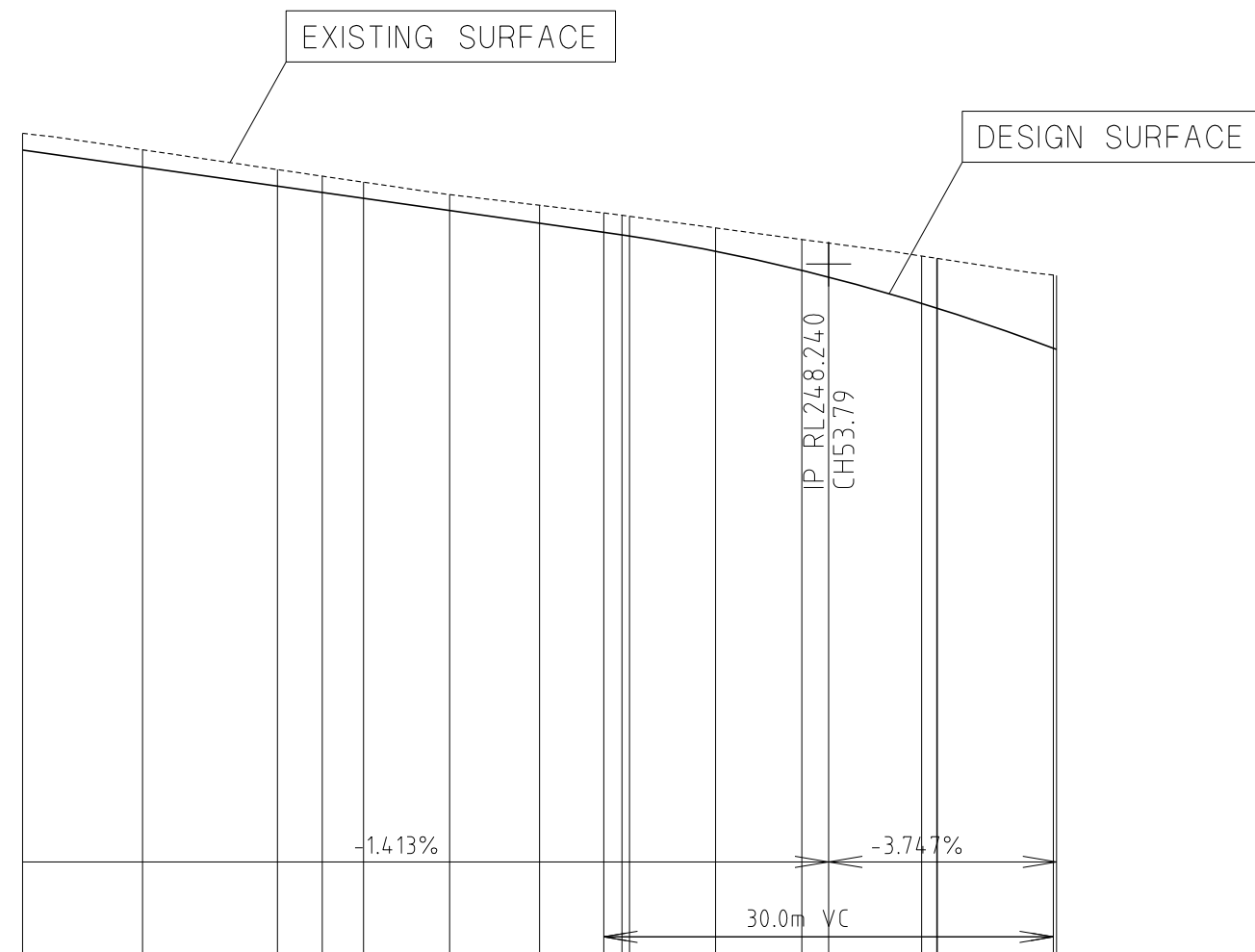
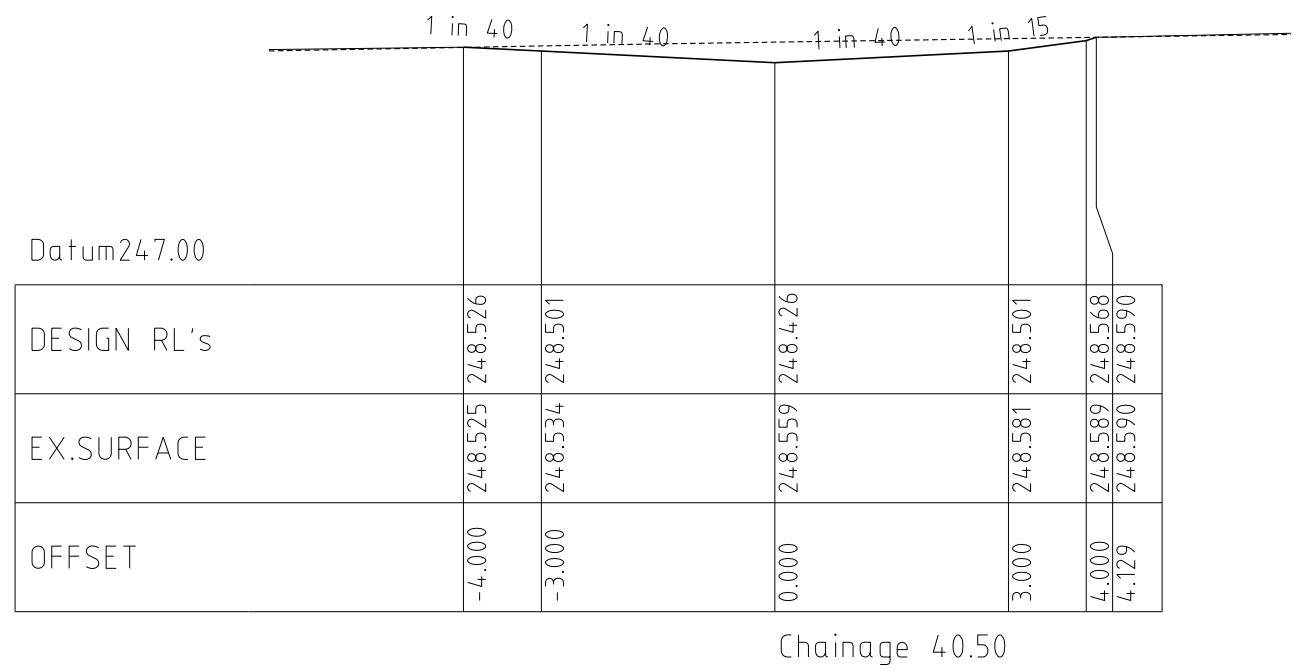
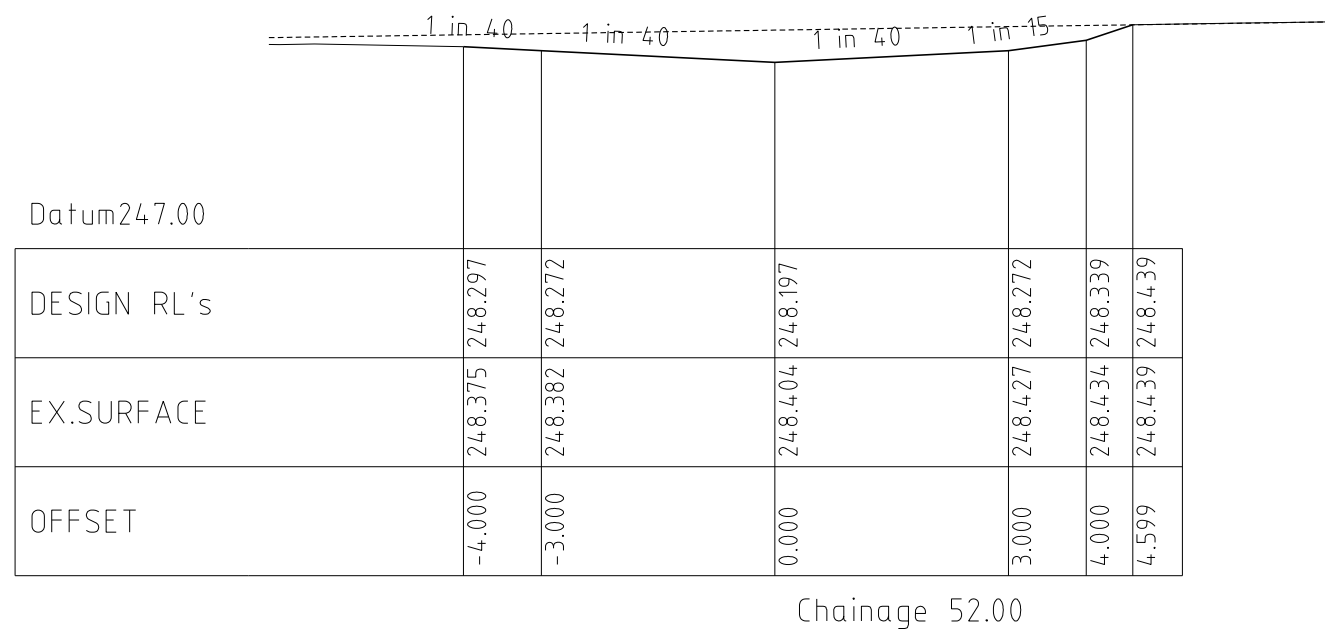
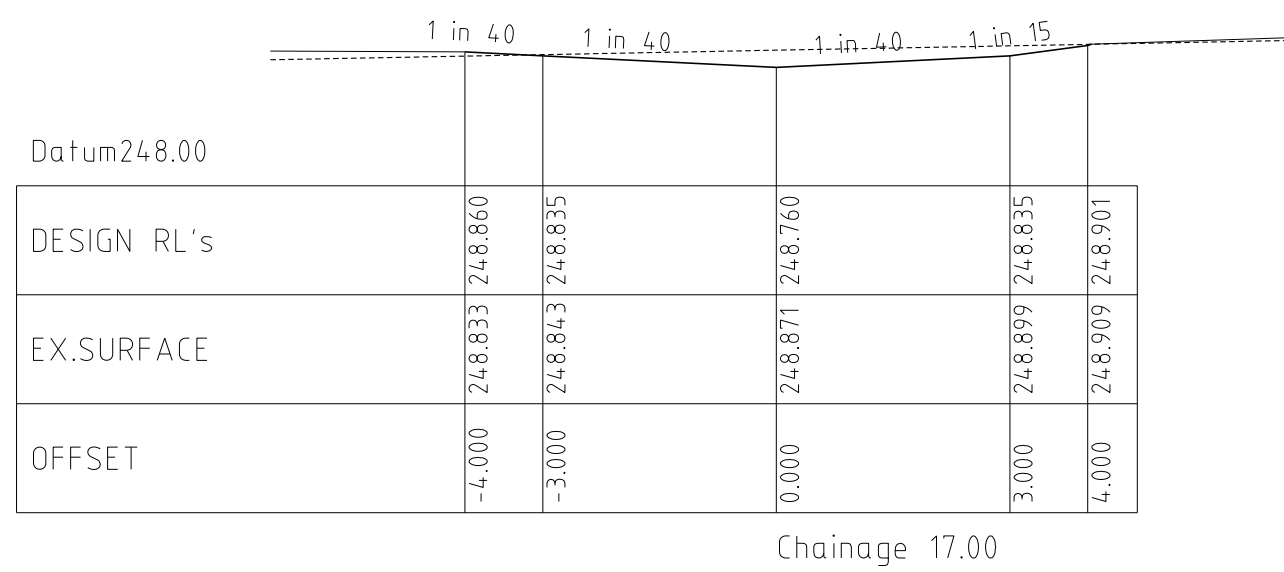
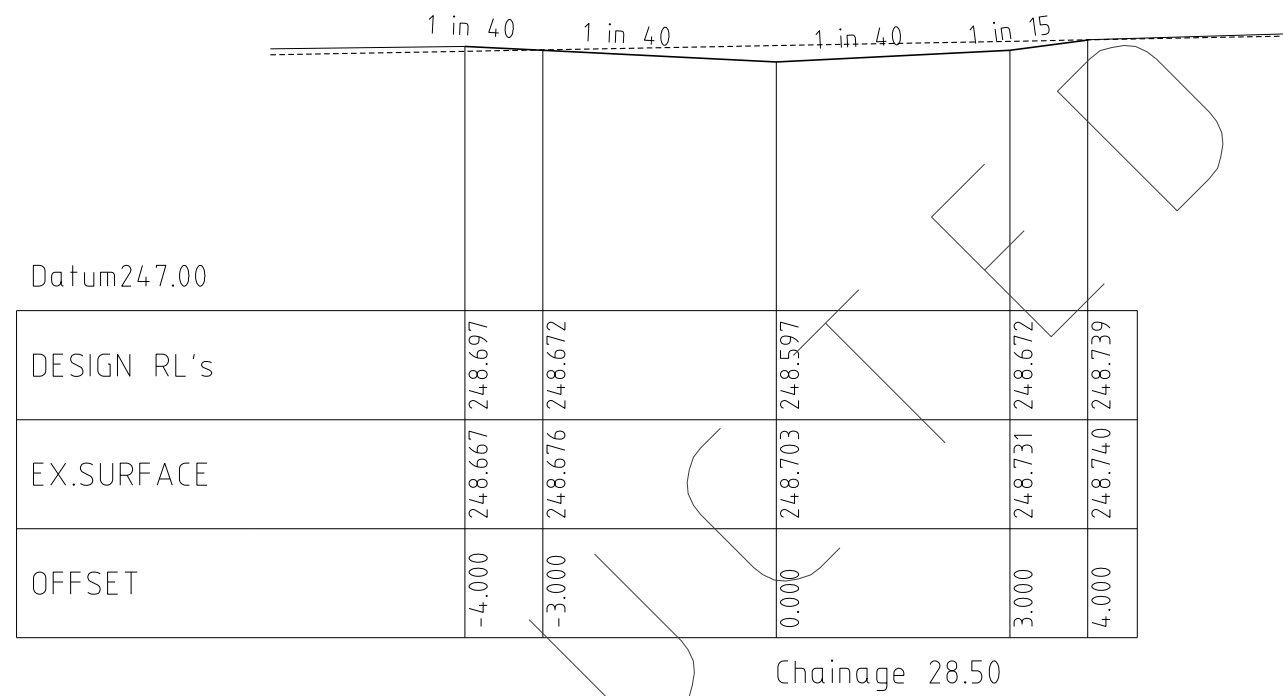
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SHEET 16 OF 27





REVISIONS			SCALE: AS SHOWN		 <p>MORNINGTON 5 Main Street P.O. Box 171 3913 Phone: (03) 5975 4644 Fax: (03) 5975 3916 DX: 93118 Mornington</p> <p>MELBOURNE The Melbourne, Suite 2 350 St. Kilda Road Melbourne, 3004 Phone: (03) 9697 8000 Fax: (03) 9697 8099</p>		HUME CITY COUNCIL		PLAN NUMBER			
DATE	DETAILS	AUTHORISED	DATE PRINTED: 14/02/2014	LEVEL DATA: K:\36182\36182\LI10P0			DATUM: AHD	PROJECT No.: 36182/3B	DRAWN: C.M.B DATE: MAY 2013	DESIGNED: Z.W.L DATE: MAY 2013	AUTHORISED: A.S.C DATE: MAY 2013	VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS
14/02/14	N AS CONSTRUCTED	ASC										REVISION N
22/01/14	M PARK PATHWAY AMENDMENTS	ASC										SHEET 17 OF 27
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC										
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HUME CITY COUNCIL  
VILLAWOOD PROPERTIES P/L  
TRILLIUM STAGE 3B  
MICKLEHAM  
ROAD AND DRAINAGE PLANS

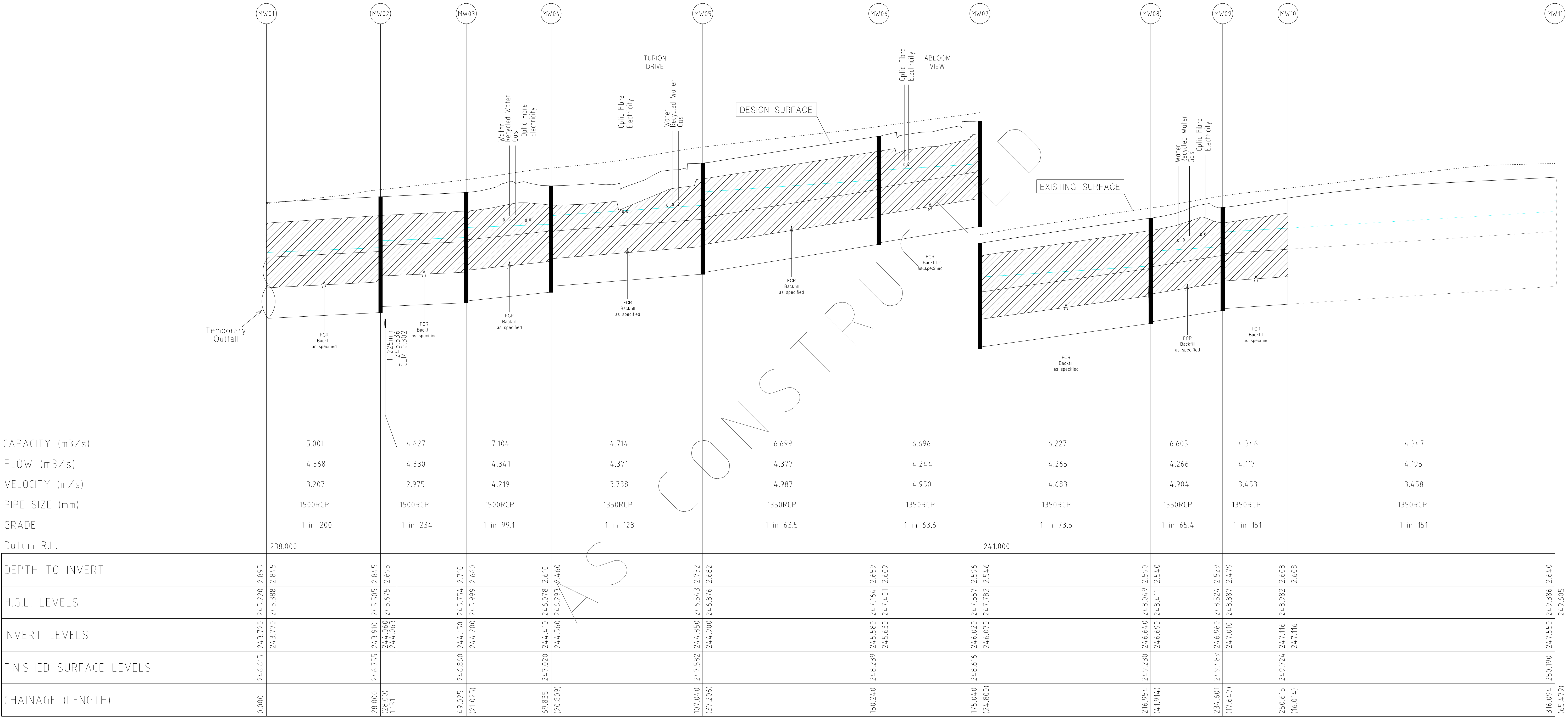
ARNICA LANE  
LONGITUDINAL & CROSS SECTIONS

PLAN NUMBER

36182/3B  
R18

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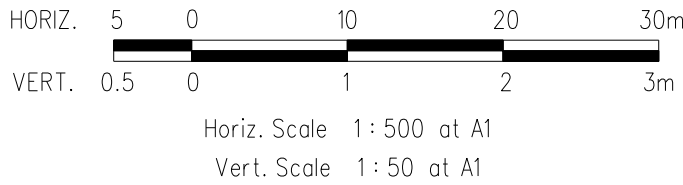
SHEET 18 OF 27




CAPACITY (m3/s)		5.001		4.627		7.104		4.714		6.699		6.696		6.227		6.605		4.346		4.347
FLOW (m3/s)		4.568		4.330		4.341		4.371		4.377		4.244		4.265		4.266		4.117		4.195
VELOCITY (m/s)		3.207		2.975		4.219		3.738		4.987		4.950		4.683		4.904		3.453		3.458
PIPE SIZE (mm)		1500RCP		1500RCP		1500RCP		1350RCP		1350RCP		1350RCP		1350RCP		1350RCP		1350RCP		1350RCP
GRADE		1 in 200		1 in 234		1 in 99.1		1 in 128		1 in 63.5		1 in 63.6		1 in 73.5		1 in 65.4		1 in 151		1 in 151
Datum R.L.		238.000											241.000							
DEPTH TO INVERT			243.720 245.220 2.895																	
H.G.L. LEVELS			243.770 245.388 2.845																	
INVERT LEVELS			243.720 245.220 2.895																	
FINISHED SURFACE LEVELS			243.770 245.388 2.845																	
CHAINAGE (LENGTH)		0.000		28.000		49.025		69.835		107.040		175.040		216.954		234.601		250.615		316.094

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

DRAINAGE LONGITUDINAL SECTIONS



REVISIONS			SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LTPO
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	DRAWN: C.M.B. DATE: MAY 2013
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED: Z.W.L. DATE: MAY 2013
FILENAME k \36182\36182 3b\ dgn\ r 19. dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



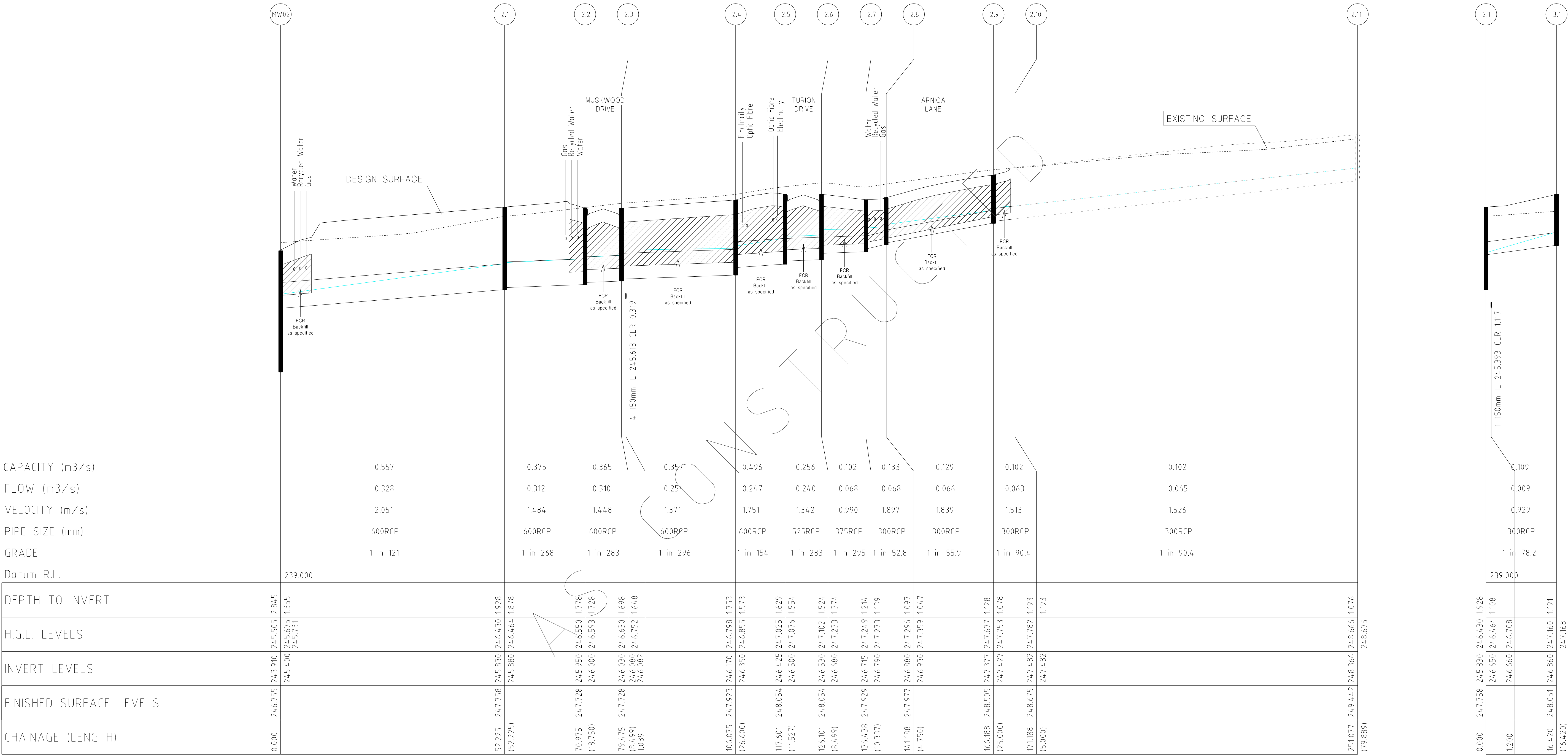
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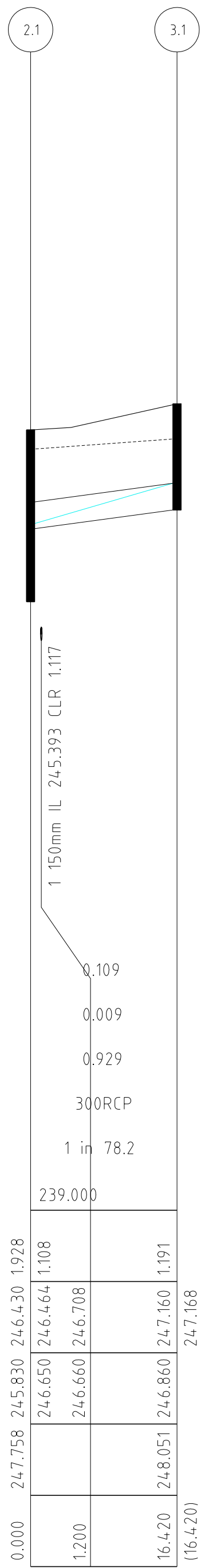
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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R 19
DRAINAGE LONGITUDINAL SECTION		REVISION N
		SHEET 19 OF 27





CAPACITY (m3/s)	0.557	0.375	0.365	0.357	0.496	0.256	0.102	0.133	0.129	0.102	0.102
FLOW (m3/s)	0.328	0.312	0.310	0.254	0.247	0.240	0.068	0.068	0.066	0.063	0.065
VELOCITY (m/s)	2.051	1.484	1.448	1.371	1.751	1.342	0.990	1.897	1.839	1.513	1.526
PIPE SIZE (mm)	600RCP	600RCP	600RCP	600RCP	600RCP	525RCP	375RCP	300RCP	300RCP	300RCP	300RCP
GRADE	1 in 121	1 in 268	1 in 283	1 in 296	1 in 154	1 in 283	1 in 295	1 in 52.8	1 in 55.9	1 in 90.4	1 in 90.4
Datum R.L.	239.000										
DEPTH TO INVERT	243.910 245.505 245.675 245.731	245.830 246.430 246.464 246.482	245.950 246.550 246.593 246.630	246.030 246.630 246.652 246.682	246.170 246.798 246.855 246.880	246.350 246.980 247.025 247.076	246.500 247.102 247.139 247.173	246.680 247.233 247.273 247.296	246.715 247.249 247.273 247.296	246.790 247.323 247.359 247.382	246.830 247.366 247.402 247.428
H.G.L. LEVELS	243.910 245.505 245.675 245.731	245.830 246.430 246.464 246.482	245.950 246.550 246.593 246.630	246.030 246.630 246.652 246.682	246.170 246.798 246.855 246.880	246.350 246.980 247.025 247.076	246.500 247.102 247.139 247.173	246.680 247.233 247.273 247.296	246.715 247.249 247.273 247.296	246.790 247.323 247.359 247.382	246.830 247.366 247.402 247.428
INVERT LEVELS	243.910 245.505 245.675 245.731	245.830 246.430 246.464 246.482	245.950 246.550 246.593 246.630	246.030 246.630 246.652 246.682	246.170 246.798 246.855 246.880	246.350 246.980 247.025 247.076	246.500 247.102 247.139 247.173	246.680 247.233 247.273 247.296	246.715 247.249 247.273 247.296	246.790 247.323 247.359 247.382	246.830 247.366 247.402 247.428
FINISHED SURFACE LEVELS	246.755	247.758	247.728	247.728	247.923	248.054	248.054	247.929	247.977	248.505	249.442
CHAINAGE (LENGTH)	0.000	52.225	70.975	79.475	106.075	117.601	126.101	136.438	141.188	166.188	251.077



CAPACITY (m3/s)	0.109
FLOW (m3/s)	0.009
VELOCITY (m/s)	0.929
PIPE SIZE (mm)	300RCP
GRADE	1 in 78.2
Datum R.L.	239.000
DEPTH TO INVERT	246.650 246.660 246.670 246.680
H.G.L. LEVELS	246.650 246.660 246.670 246.680
INVERT LEVELS	246.650 246.660 246.670 246.680
FINISHED SURFACE LEVELS	248.051
CHAINAGE (LENGTH)	16.420

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

DRAINAGE LONGITUDINAL SECTIONS



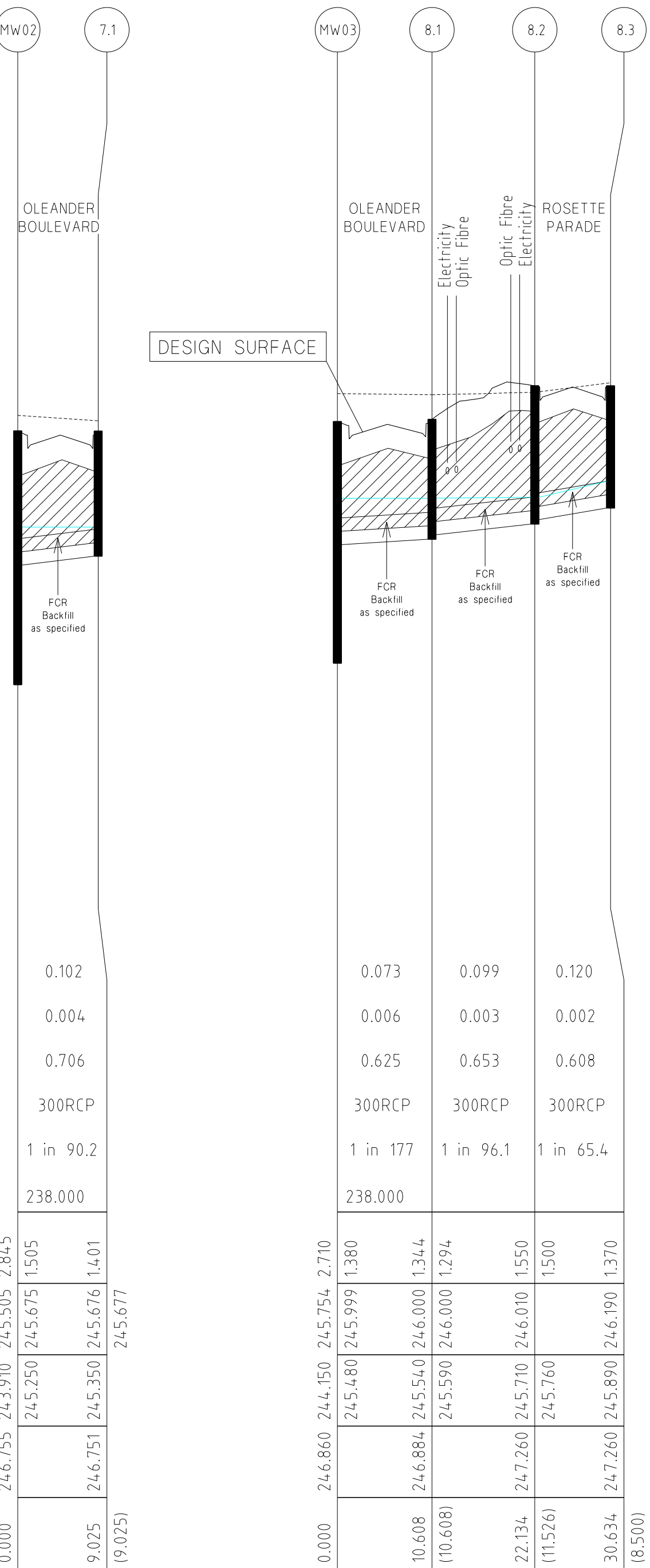
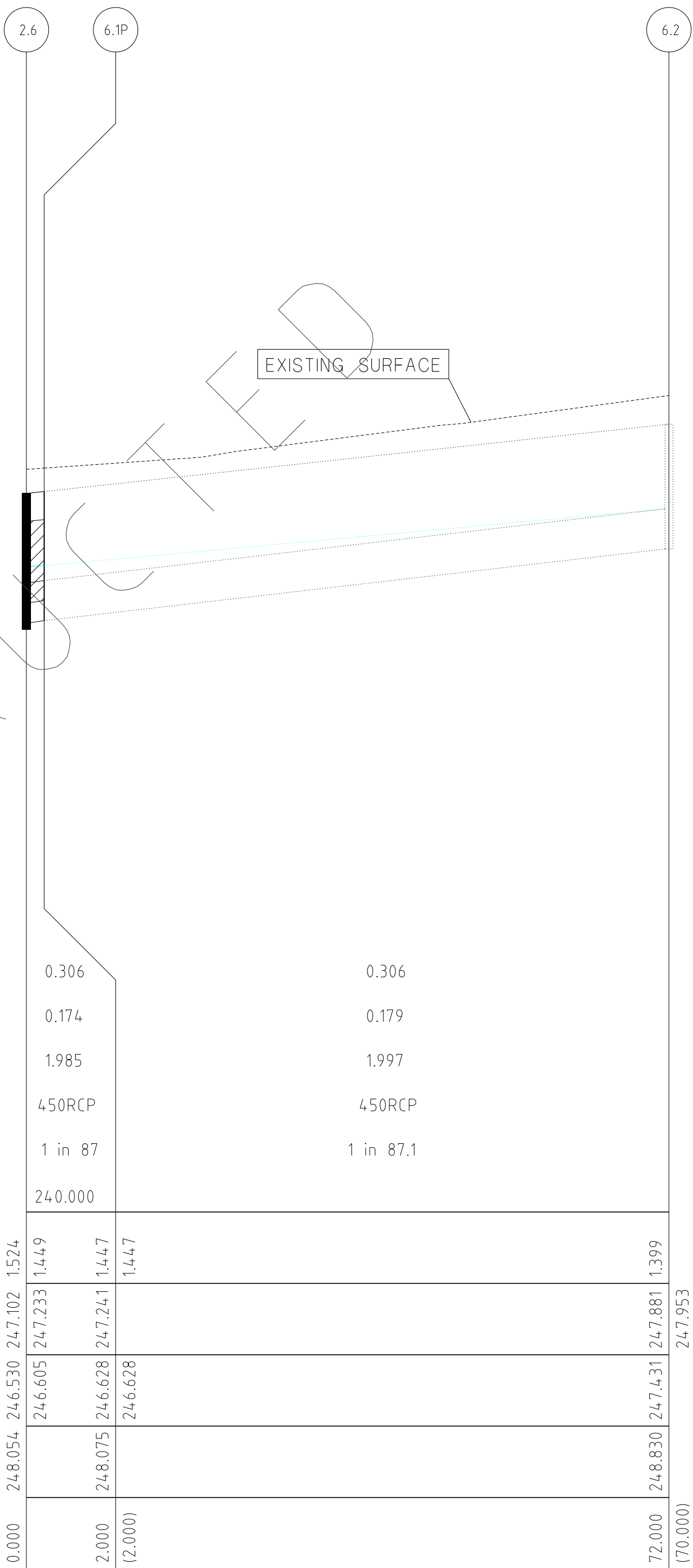
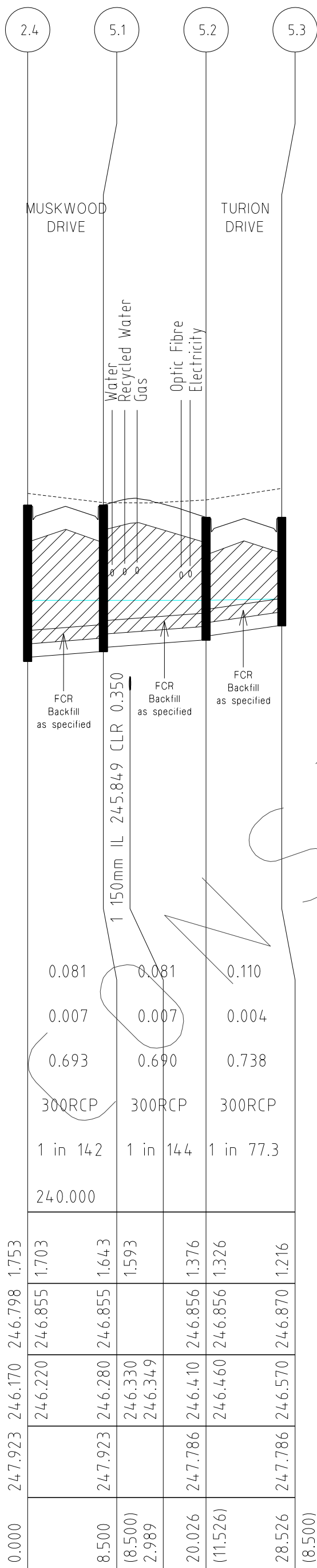
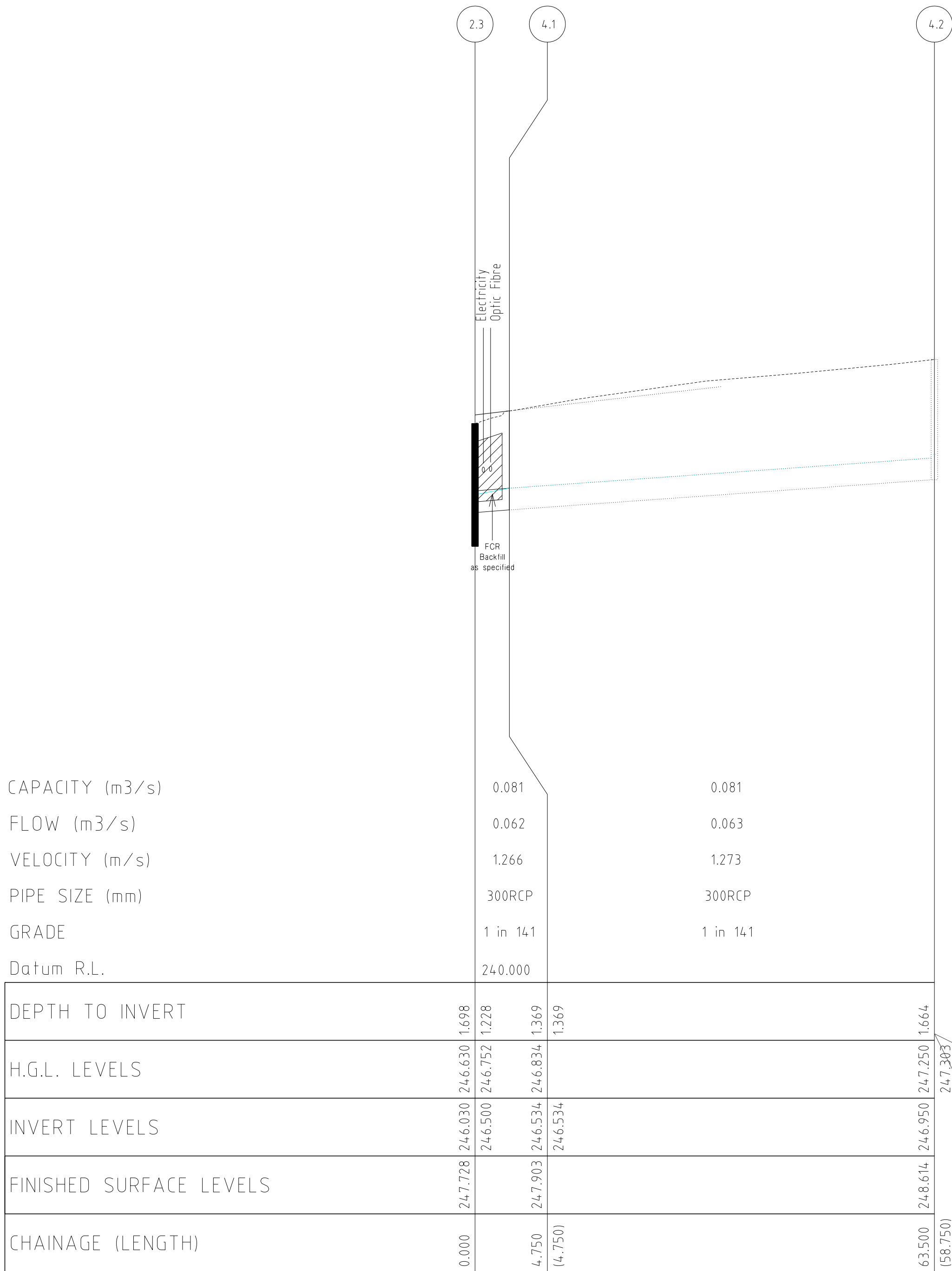
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17/09/13	J COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED:	Z.W.L. DATE: MAY 2013
FILENAME k \36182\36182 3b\dgn\20_dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R20
DRAINAGE LONGITUDINAL SECTIONS		REVISION N
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CAPACITY (m3/s)	0.081	0.081
FLOW (m3/s)	0.062	0.063
VELOCITY (m/s)	1.266	1.273
PIPE SIZE (mm)	300RCP	300RCP
GRADE	1 in 141	1 in 141
Datum R.L.	240.000	
DEPTH TO INVERT	247.728 246.030 246.630 1.698	247.250 1.664
H.G.L. LEVELS	246.500 246.752 1.228	
INVERT LEVELS	246.534 246.834 1.369	
FINISHED SURFACE LEVELS	247.903 246.534	
CHAINAGE (LENGTH)	0.000 4.750 14.750	63.500 158.750

NOTE:  
LOCATION OF GAS, WATER,  
TELSTRA & ELECTRICITY  
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### DRAINAGE LONGITUDINAL SECTIONS



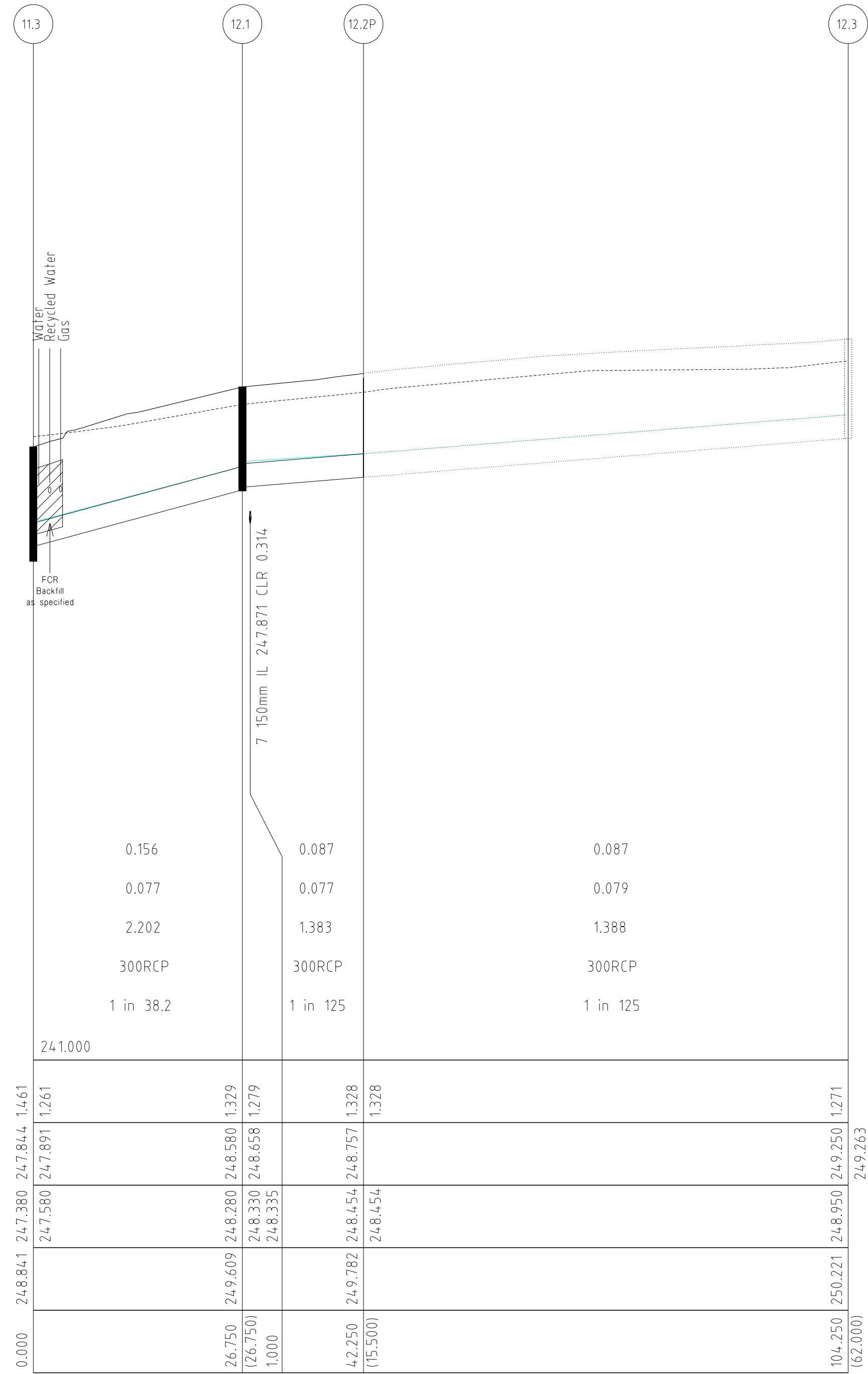
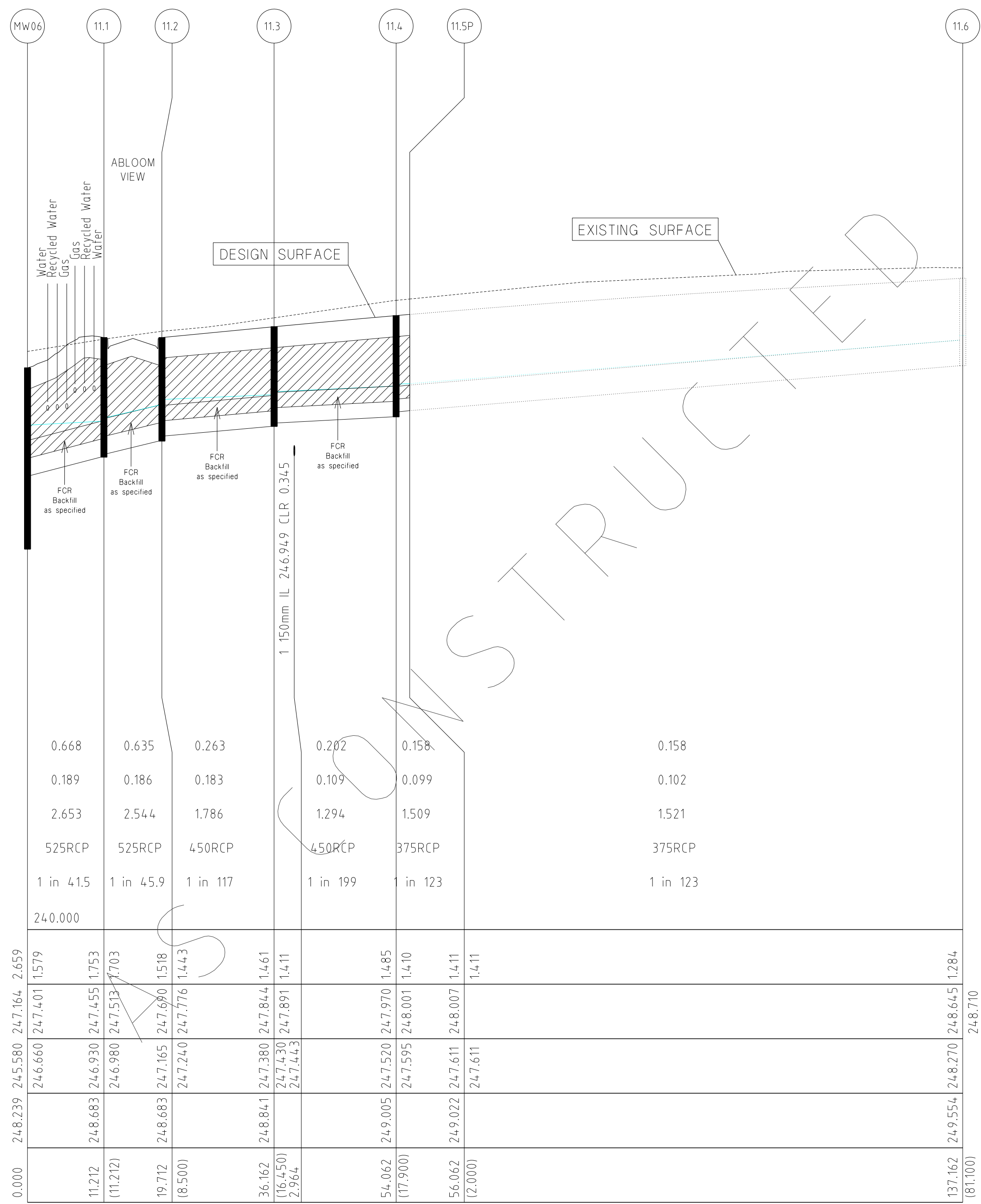
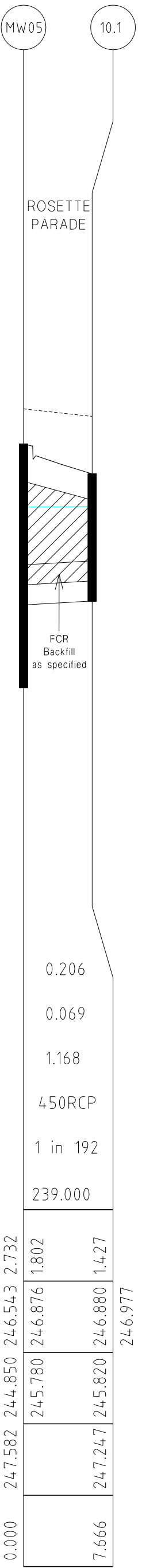
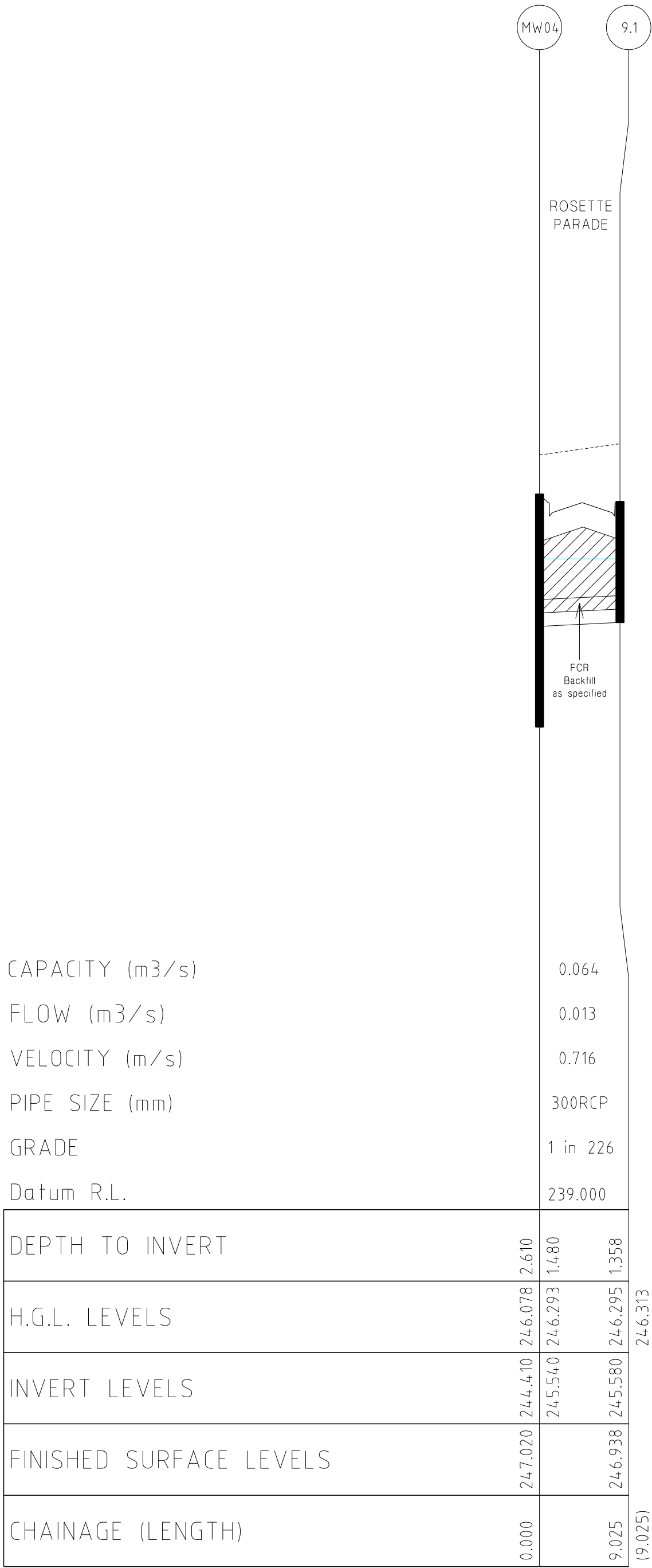
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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R21
DRAINAGE LONGITUDINAL SECTIONS		REVISION N
		SHEET 21 OF 27




NOTE:  
LOCATION OF GAS, WATER,  
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### DRAINAGE LONGITUDINAL SECTIONS



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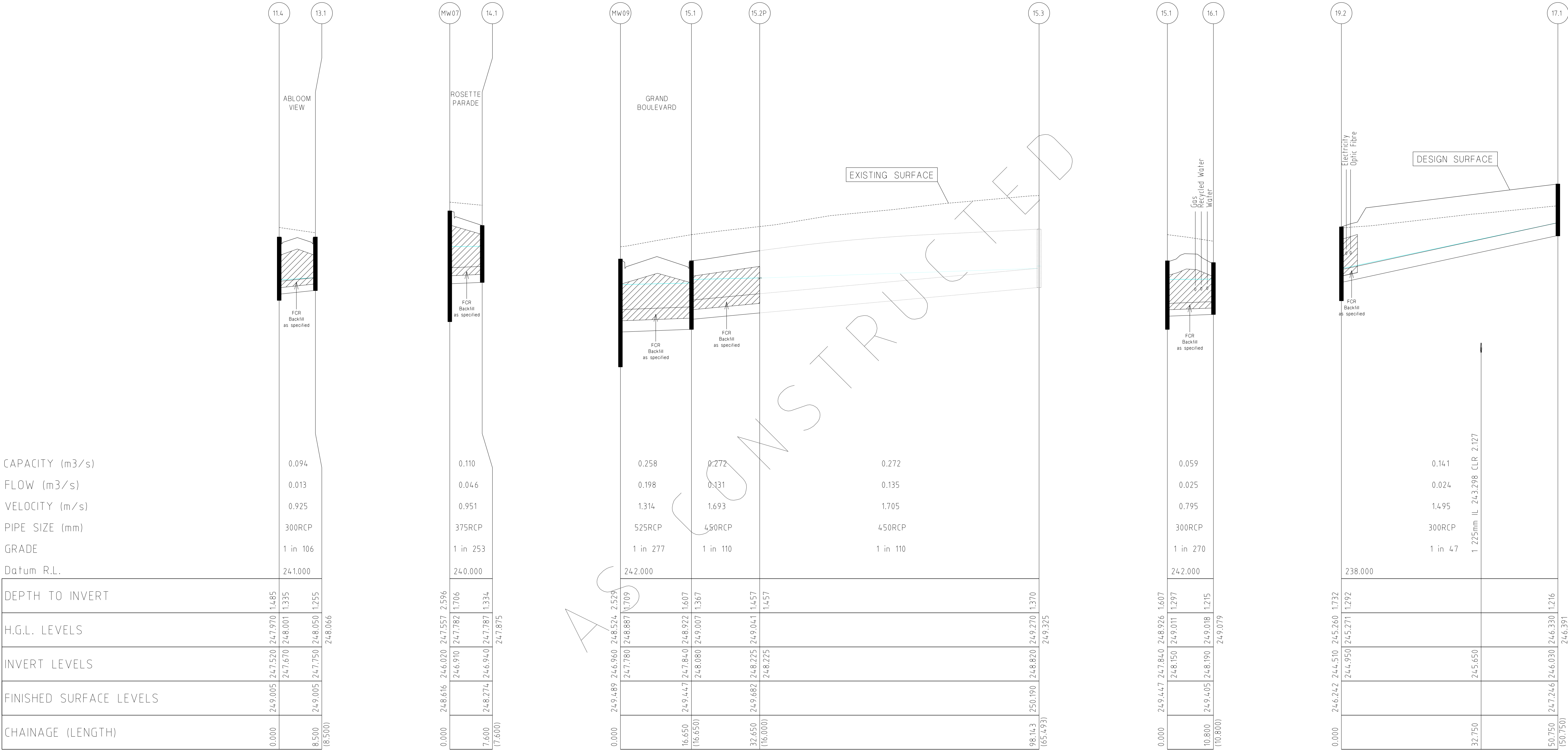
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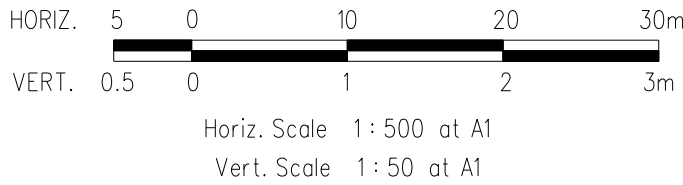
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R22
DRAINAGE LONGITUDINAL SECTIONS		REVISION N
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NOTE:  
LOCATION OF GAS, WATER,  
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DRAINAGE LONGITUDINAL SECTIONS



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FILENAME k \36182\36182 3b\ dgn\ r23. dgn			AUTHORISED:	A.S.C. DATE: MAY 2013

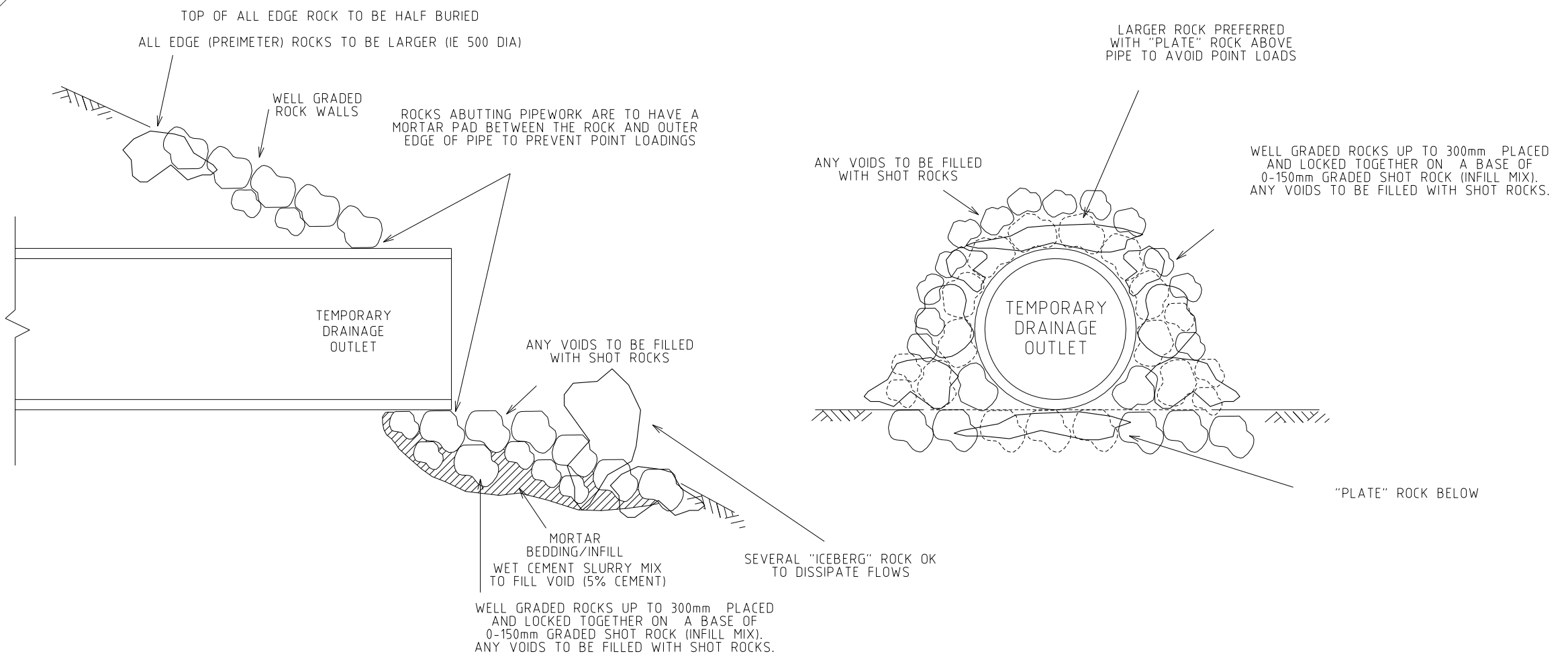
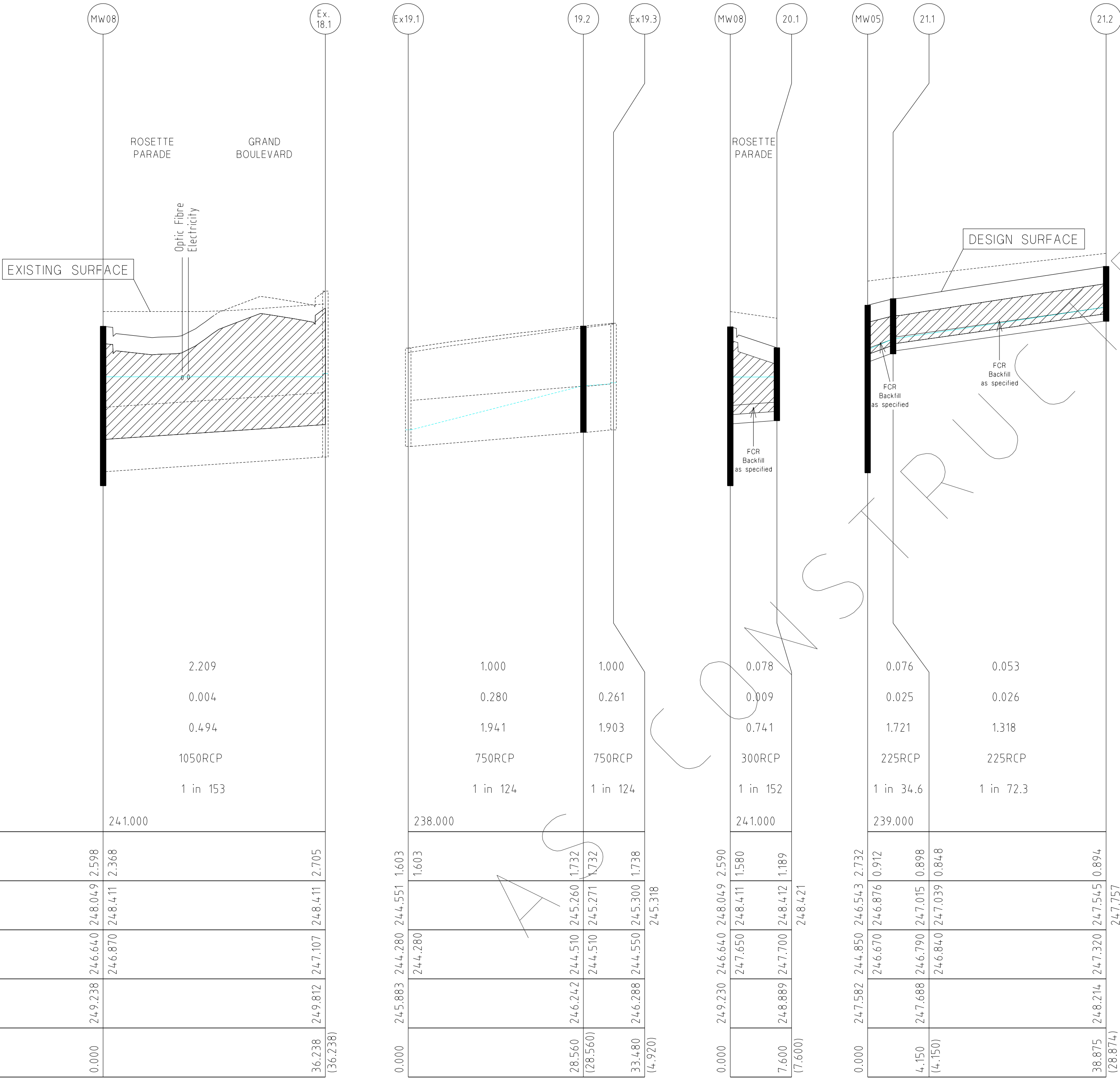


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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R23
DRAINAGE LONGITUDINAL SECTIONS		REVISION N
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CAPACITY (m3/s)		2.209
FLOW (m3/s)		0.004
VELOCITY (m/s)		0.494
PIPE SIZE (mm)		1050RCP
GRADE		1 in 153
Datum R.L.	241.000	
DEPTH TO INVERT		
H.G.L. LEVELS		
INVERT LEVELS		
FINISHED SURFACE LEVELS		
CHAINAGE (LENGTH)		



NOTE:  
LOCATION OF GAS, WATER,  
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#### DRAINAGE LONGITUDINAL SECTIONS



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R24
DRAINAGE LONGITUDINAL SECTIONS & TYPICAL STORMWATER DRAINAGE TEMPORARY OUTLET		REVISION N
		SHEET 24 OF 27


PIT SCHEDULE

PIT NO. & TYPE	INTERNAL DIMENSIONS	EASTING	NORTHING	INLET DIA.	INLET I.L.	OUTLET DIA.	OUTLET I.L.	COVER LEVEL	DEPTH TO INVERT	REMARKS
MW11 SEP	Future	3758.061	9870.703			1350	247.55	250.232	2.682	Future Pit
MW10 PC	-	3822.959	9862.002	1350	247.116	1350	247.116	249.724	2.608	End Capped (Future Pipe to Pipe Connection)
MW09 SEP	900 x 1500	3838.832	9859.874	1350	247.01	1350	246.96	249.489	2.529	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
				525	247.78			249.489	2.529	Line 15 Enters
MW08 SEP	3100 x 1650	3848.389	9847.358	1350	246.69	1350	246.64	249.230	2.590	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID); Refer 4486/01/6 for Pit Details.
				1050	246.87			249.230	2.590	Existing Line 18 Enters
				300	247.65			249.230	2.590	Line 20 Enters
MW07 SEP	900 x 1500	3842.819	9805.815	1350	246.07	1350	246.02	248.616	2.596	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
				375	246.91			248.616	2.596	Line 14 Enters
MW06 SEP	900 x 1500	3839.523	9781.235	1350	245.63	1350	245.58	248.239	2.659	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
				525	246.66			248.239	2.659	Line 11 Enters
MW05 SEP	900 x 1500	3833.782	9738.418	1350	244.9	1350	244.85	247.582	2.732	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
				450	245.78			247.582	2.732	Line 10 Enters
				225	246.67			247.582	2.732	Line 21 Enters
MW04 SEP	900 x 1650	3857.992	9716.835	1350	244.56	1500	244.41	247.02	2.61	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
				300	245.54			247.02	2.61	Line 9 Enters
MW03 SEP	900 x 1650	3869.395	9701.988	1500	244.2	1500	244.15	246.86	2.71	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
				300	245.48			246.86	2.71	Line 8 Enters
MW02 SEP	900 x 1650	3866.601	9681.149	1500	244.06	1500	243.91	246.755	2.845	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
				600	245.4			246.755	2.845	Line 2 Enters
				300	245.25			246.755	2.845	Line 7 Enters
MW01 OUT	-	3862.881	9653.397	1500	243.77	1500	243.72	246.615	2.895	Temporary Outfall
2.11 JP	Future	3715.563	9775.053			300	248.366	249.442	1.076	Future Pit
2.10 PC	-	3794.744	9764.436	300	247.482	300	247.482	248.675	1.193	End Capped (Future Pipe to Pipe Connection)
2.9 GP	900 x 600	3799.699	9763.772	300	247.427	300	247.377	248.505	1.128	GAA014; GRATED PIT LID (CLASS D)
2.8 GP	900 x 600	3796.377	9738.994	300	246.93	300	246.88	247.977	1.097	GAA014; GRATED PIT LID (CLASS D)
2.7 JP	900 X 600	3795.746	9734.286	300	246.79	375	246.715	247.929	1.214	GAA014; SD275(CIRCULAR PIT LID)
2.6 SEP	900 x 750	3785.501	9735.659	375	246.68	525	246.53	248.054	1.524	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID); HEAVY DUTY LID - CLASS D
				450	246.605			248.054	1.524	Line 6 Enters
2.5 SEP	900 x 750	3784.371	9727.235	525	246.5	600	246.425	248.054	1.629	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
2.4 SEP	900 x 750	3791.366	9718.074	600	246.35	600	246.17	247.923	1.753	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
				300	246.22			247.923	1.753	Line 5 Enters
2.3 SEP	900 x 750	3787.831	9691.71	600	246.08	600	246.03	247.728	1.698	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
				300	246.5			247.728	1.698	Line 4 Enters
2.2 SEP	900 x 750	3796.256	9690.581	600	246	600	245.95	247.728	1.778	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
2.1 JP	900 x 750	3814.84	9688.089	600	245.88	600	245.83	247.758	1.928	GAA014(HAUNCHD); SD275(CIRCULAR PIT LID)
				300	246.65			247.758	1.928	Line 3 Enters
3.1 JP	900 x 600	3817.021	9704.363			300	246.86	248.051	1.191	GAA014; SD275(CIRCULAR PIT LID)
4.2 SEP	Future	3724.894	9700.148			300	246.950	248.614	1.664	Future Pit
4.1 PC	-	3783.123	9692.341	300	246.534	300	246.534	247.903	1.369	End Capped (Future Pipe to Pipe Connection)
5.3 SEP	900 x 600	3810.081	9732.364			300	246.57	247.786	1.216	GAA012; SD275(CIRCULAR PIT LID)
5.2 SEP	900 x 600	3808.951	9723.94	300	246.46	300	246.41	247.786	1.376	GAA012; SD275(CIRCULAR PIT LID)
5.1 JP	900 x 600	3799.79	9716.945	300	246.33	300	246.28	247.923	1.643	GAA014; SD275(CIRCULAR PIT LID)
6.2 SEP	Future	3714.139	9745.227			450	247.431	248.83	1.399	Future Pit
6.1 PC	-	3783.518	9735.925	450	246.628	450	246.628	248.075	1.447	End Capped (Future Pipe to Pipe Connection)

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
7.1 SEP	900 x 600	3875.546	9679.95			300	245.35	246.751	1.401	GAA012; SD275(CIRCULAR PIT LID)
8.3 SEP	900 x 600	3889.372	9721.733			300	245.89	247.26	1.37	GAA012; SD275(CIRCULAR PIT LID)
8.2 SEP	900 x 600	3888.242	9713.309	300	245.76	300	245.71	247.26	1.55	GAA012; SD275(CIRCULAR PIT LID)
8.1 SEP	900 x 600	3879.081	9706.314	300	245.59	300	245.54	246.884	1.344	GAA012; SD275(CIRCULAR PIT LID)
9.1 SEP	900 x 600	3859.191	9725.78			300	245.58	246.938	1.358	GAA012; SD275(CIRCULAR PIT LID)
10.1 SEP	900 x 600	3841.448	9738.399			450	245.82	247.247	1.427	GAA012; SD275(HEAVY DUTY LID - CLASS D); Pit to be Constructed at Lip of Kerb.
11.6 SEP	Future	3717.695	9814.368			375	248.27	249.554	1.284	Future Pit
11.5 PC	-	3798.076	9803.591	375	247.611	375	247.611	249.022	1.411	End Capped (Future Pipe to Pipe Connection)
11.4 SEP	900 x 600	3800.059	9803.325	375	247.595	450	247.52	249.005	1.485	GAA012; SD275(CIRCULAR PIT LID)
				300	247.67			249.005	1.485	Line 13 Enters
11.3 JP	900 x 600	3817.8	9800.947	450	247.43	450	247.38	248.841	1.461	GAA014; SD275(CIRCULAR PIT LID)
				300	247.58			248.841	1.461	Line 12 Enters
11.2 SEP	900 x 750	3834.104	9798.76	450	247.24	525	247.165	248.683	1.518	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
11.1 SEP	900 x 750	3832.974	9790.336	525	246.98	525	246.93	248.683	1.753	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
12.3 JP	Future	3744.542	9837.758			300	248.95	250.221	1.271	Future Pit
12.2 PC	-	3805.992	9829.519	300	248.454	300	248.454	249.782	1.328	End Capped (Future Pipe to Pipe Connection)
12.1 JP	900 x 600	3821.355	9827.459	300	248.33	300	248.28	249.609	1.329	GAA014; SD275(CIRCULAR PIT LID)
13.1 SEP	900 x 600	3798.929	9794.901			300	247.75	249.005	1.255	GAA012; SD275(CIRCULAR PIT LID)
14.1 SEP	900 x 600	3850.351	9804.805			375	246.94	248.274	1.334	GAA012; SD275(HEAVY DUTY LID - CLASS D); Pit to be Constructed at Lip of Kerb.
15.3 SEP	Future	3760.26	9887.208			450	248.82	250.19	1.37	Future Pit
15.2 PC	-	3825.172	9878.504	450	248.225	450	248.225	249.682	1.457	End Capped (Future Pipe to Pipe Connection)
15.1 SEP	900 x 750	3841.03	9876.378	450	248.08	525	247.84	249.447	1.607	GAA012(HAUNCHD); SD275(CIRCULAR PIT LID)
				300	248.15			249.447	1.607	Line 16 Enters
16.1 SEP	900 x 600	3851.734	9874.943			300	248.19	249.405	1.215	GAA012; SD275(CIRCULAR PIT LID)
17.1 JP	900 x 600	3892.148	9677.724			300	246.03	247.246	1.216	GAA014; SD275(CIRCULAR PIT LID)
18.1 JP	Existing	3875.138	9871.805			1050	247.107	249.812	2.705	Existing Pit
19.3 SEP	Existing	3943.102	9675.856			750	244.55	246.288	1.738	Existing Pit
19.2 JP	900 x 900	3942.448	9670.98	750	244.51	750	244.51	246.242	1.732	GAA014; SD275(CIRCULAR PIT LID)
				300	244.95			246.242	1.732	Line 17 Enters
19.1 OUT	Existing	3938.653	9642.673	750	244.28			245.883	1.603	Existing Temporary Outfall
20.1 SEP	900 x 600	3855.921	9846.348			300	247.7	248.889	1.189	GAA012; SD275(HEAVY DUTY LID - CLASS D); Pit to be Constructed at Lip of Kerb.
21.2 JP	600 x 600	3834.284	9773.387			225	247.32	248.214	0.894	SD235; SD275(CIRCULAR PIT LID); HEAVY DUTY LID - CLASS D
21.1 JP	600 x 600	3829.669	9738.97	225	246.84	225	246.79	247.688	0.898	SD235; SD275(CIRCULAR PIT LID); HEAVY DUTY LID - CLASS D

REVISIONS				SCALE: AS SHOWN	
DATE	DETAILS		AUTHORISED	DATE PRINTED: 14/02/2014	
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00	
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD	
8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B	
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	DRAWN: C.M.B	DATE: MAY 2013
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED: Z.W.L	DATE: MAY 2013
FILENAME k \36182\36182 3b\ dgn\ r25 .dgn				AUTHORISED: A.S.C DATE: MAY 2013	



MORNINGTON  
5 Main Street,  
P.O. Box 171, 3931  
Phone: (03) 5975 4444  
Fax: (03) 5975 3936  
DX 93118 Mornington

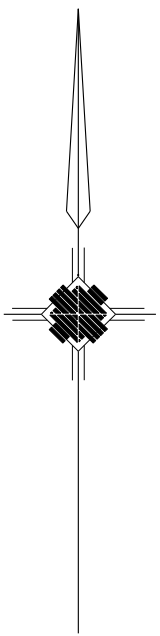
MELBOURNE  
The Melbourne Suite 2  
250 St. Kilda Road,  
Melbourne, 3002  
Phone: (03) 9697 8000  
Fax: (03) 9697 8099

VILLAWOOD PROPERTIES P/L  
TRILLIUM STAGE 3B  
MICKLEHAM  
ROAD AND DRAINAGE PLANS

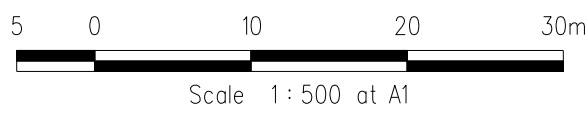
PIT SCHEDULE

PLAN NUMBER  
36182/3B  
R 25  
REVISION  
N  
SHEET 25 OF 27





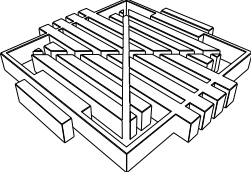
LINEMARKING PLAN



PLAN I.D.	PICTORIAL	CODE No.
#1		STREET SIGN
#2		R1-2A

UNCONSTRUCTED

REVISIONS			SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
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22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
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17/09/13	J COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED:	Z.W.L. DATE: MAY 2013
FILENAME k \36182\36182 3B\DGN\R26 .dgn			AUTHORISED:	A.S.C. DATE: MAY 2013

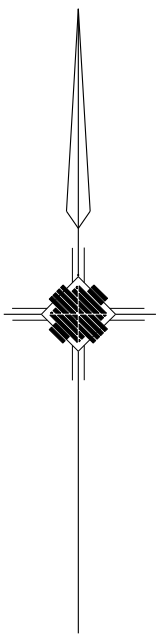


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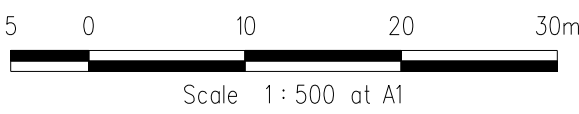
MORNINGTON  
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DX 9318 Mornington

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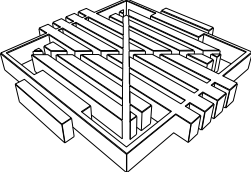
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R26
LINEMARKING & SIGNAGE PLAN		REVISION N
		SHEET 26 OF 27



PARKING PLAN



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DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LTPO
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18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	DRAWN:	C.M.B. DATE: MAY 2013
17/09/13	J COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED:	Z.W.L. DATE: MAY 2013
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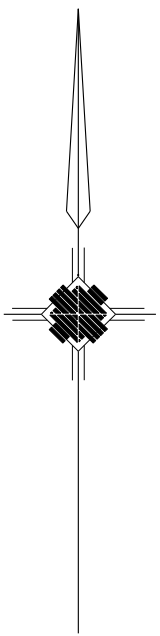
**WATSONS**  
ARCHITECTS

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5 Main Street  
P.O. Box 111 3931  
Phone: (03) 5975 4444  
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DX 9318 Mornington

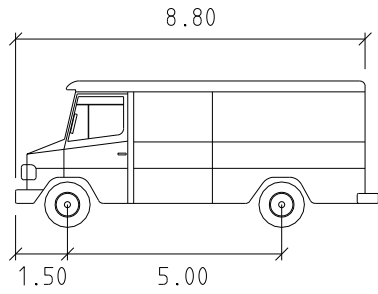
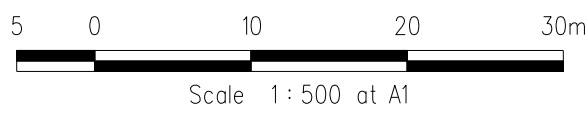
MELBOURNE  
The Melbourne, Suite 2  
250 St. Kilda Road  
Melbourne, 3004  
Phone: (03) 9697 8000  
Fax: (03) 9697 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R26A
LINEMARKING & SIGNAGE PLAN		REVISION N
		SHEET 26A OF 27





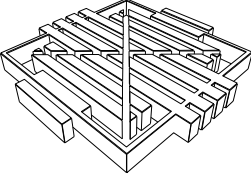
TURNING TEMPLATES



SERVICE	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.00
Steering Angle	: 38.70



REVISIONS			SCALE: AS SHOWN	
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14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LT0P0
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17/09/13	J COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED:	Z.W.L. DATE: MAY 2013
FILENAME k \36182\36182 3B\DGN\R26B.dgn		AUTHORISED:	ASC	DATE: MAY 2013



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5 Main Street  
P.O. Box 171 3931  
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MELBOURNE  
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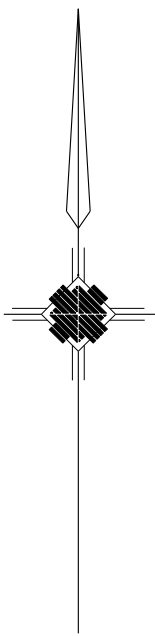
HUME CITY COUNCIL  
VILLAWOOD PROPERTIES P/L  
TRILLIUM STAGE 3B  
MICKLEHAM  
ROAD AND DRAINAGE PLANS

PLAN NUMBER  
36182/3B  
R26B

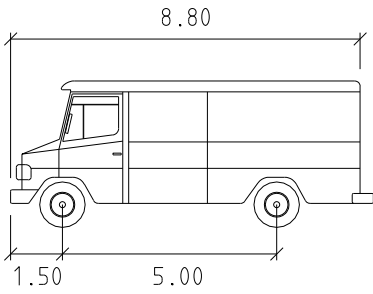
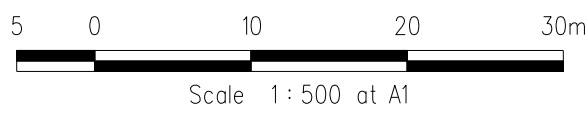
TURNING TEMPLATES

REVISION N  
SHEET 26B OF 27

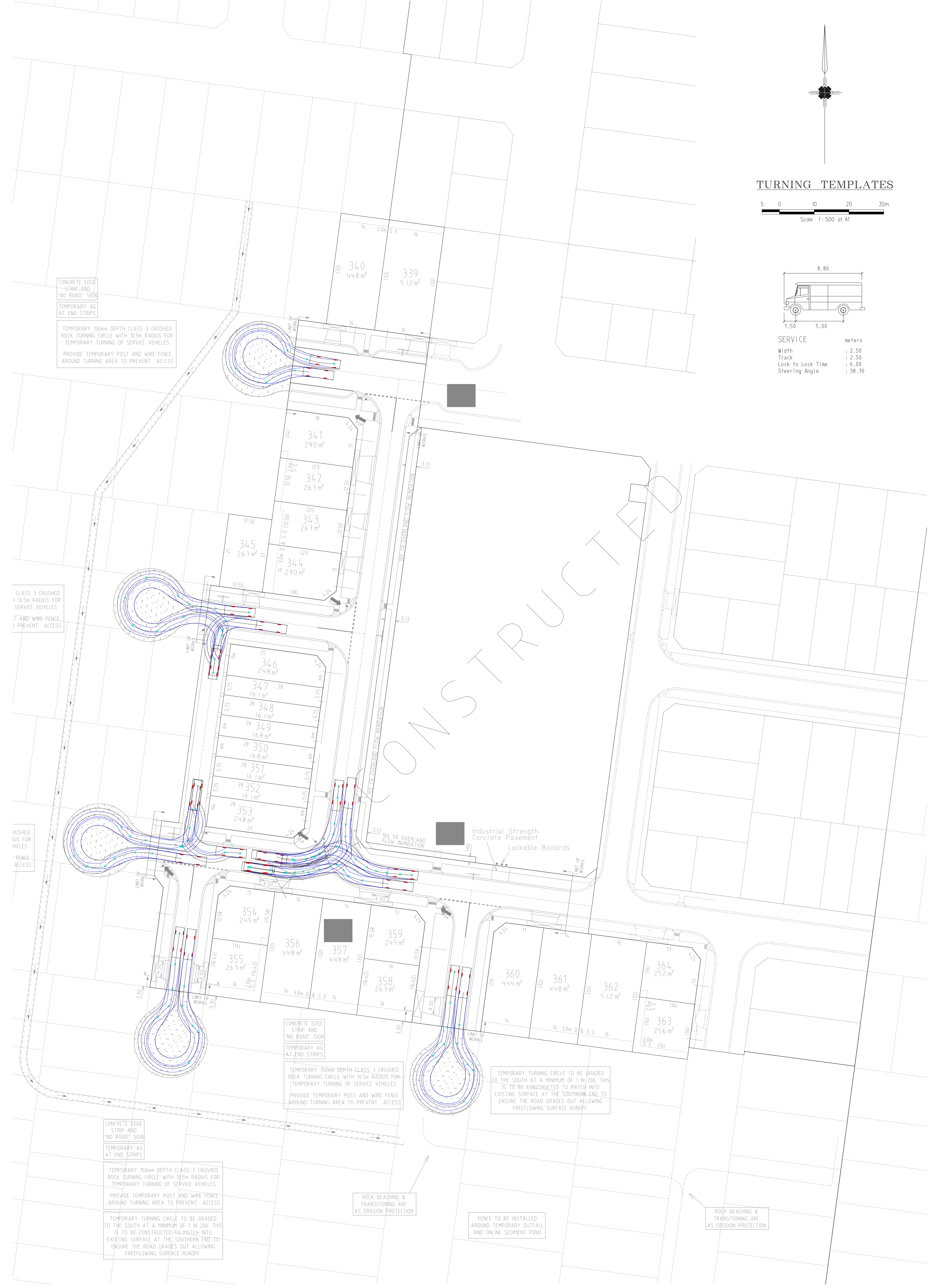




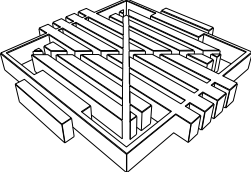
TURNING TEMPLATES



SERVICE	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.00
Steering Angle	: 38.70



REVISIONS			SCALE: AS SHOWN	
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FILENAME k \36182\36182 3B\DGN\R26C.dgn		AUTHORISED:	ASC	DATE: MAY 2013



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401 47 437 500 417

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5 Main Street  
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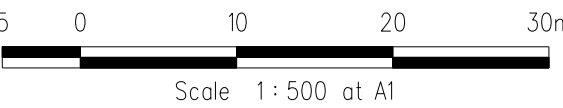
MELBOURNE  
The Melbourne, Suite 2  
250 St. Kilda Road  
Melbourne, 3004  
Phone: (03) 9697 8000  
Fax: (03) 9697 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R26C
TURNING TEMPLATES		REVISION N
		SHEET 26C OF 27





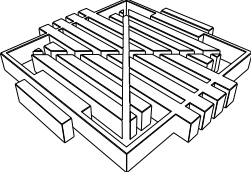
EARTHWORKS PLAN



LEGEND

- Area in Cut
- Area in Fill (<200mm)
- Area in Fill (>200mm)

REVISIONS				SCALE: AS SHOWN	
DATE		DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LTPO
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No:	36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	DRAWN:	C.M.B. DATE: MAY 2013
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	ASC	DESIGNED:	Z.W.L. DATE: MAY 2013
FILENAME k \36182\36182 3B\DGN\R27 .dgn				AUTHORISED:	A.S.C. DATE: MAY 2013



WATSONS  
Aust 61 437 500 411

MORNINGTON  
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Fax: (03) 5975 316  
DK 9318 Mornington

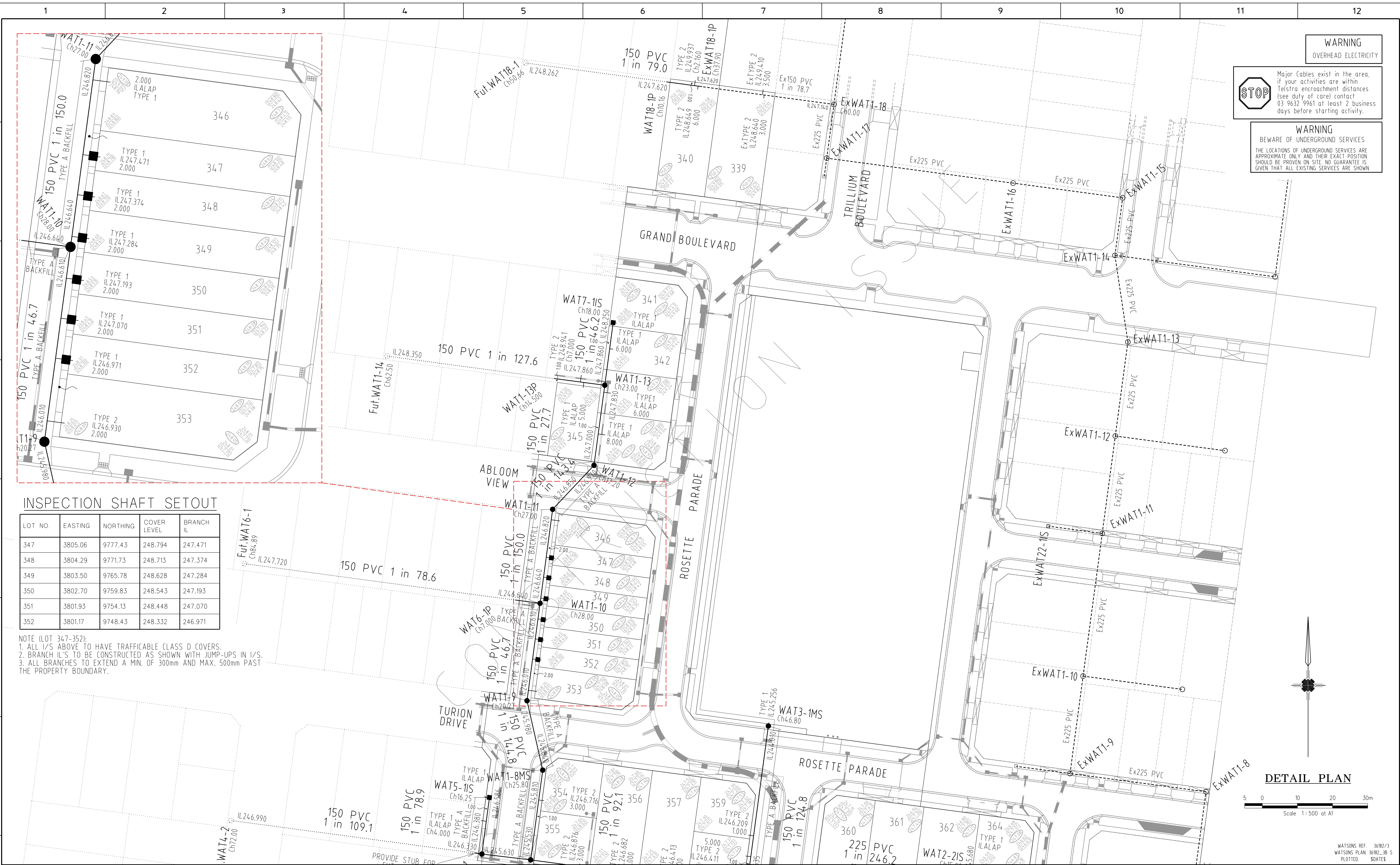
MELBOURNE  
The Melbourne, Suite 2  
250 St. Kilda Road  
Melbourne, 3004  
Phone: (03) 9497 8000  
Fax: (03) 9497 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R27
EARTHWORKS PLAN		REVISION N
		SHEET 27 OF 27









**WARNING**  
OVERHEAD ELECTRICITY

**STOP**

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.

**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

INSPECTION SHAFT SETOUT

LOT NO.	EASTING	NORTHING	COVER LEVEL	BRANCH IL
347	3805.06	9777.43	248.794	247.471
348	3804.29	9771.73	248.713	247.374
349	3803.50	9765.78	248.628	247.284
350	3802.70	9759.83	248.543	247.193
351	3801.93	9754.13	248.448	247.070
352	3801.17	9748.43	248.332	246.971

NOTE (LOT 347-352):  
1. ALL I/S ABOVE TO HAVE TRAFFICABLE CLASS D COVERS.  
2. BRANCH ILS TO BE CONSTRUCTED AS SHOWN WITH JUMP-UPS IN I/S.  
3. ALL BRANCHES TO EXTEND A MIN. OF 300mm AND MAX. 500mm PAST THE PROPERTY BOUNDARY.

F	WAT5-1S AMENDED.	24/08/13	Z.W.L.
E	WAT1-3 & WAT4-1 AMENDED.	24/08/13	Z.W.L.
D	LINE 3 & EXISTING LINE 22 AMENDED. WAT1-5, 1-8 & 3-1 AMENDED.	13/08/13	Z.W.L.
C	MINOR AMENDMENTS	13/08/13	Z.W.L.
B	SEWER MAIN EXTENSION (LINE 22)	1/08/13	Z.W.L.
A	SEWER OFFSET TEXT AT THE BACK OF LOTS 355-358 AMENDED	13/06/13	Z.W.L.
REF.	ZONE	REVISION	APP'D.

**SYMBOLS AND GENERAL NOTES**

— EX. SEW. 225mm DIAM & UNDER

— EX. SEW. 300mm DIAM & OVER

— PROP. SEW. 225mm DIAM & UNDER

— PROP. SEW. 300mm DIAM & OVER

— IS/TMS/MS

— E.P. END OF PIPE

● ACCESS CHAMBER CIRCULAR

● ACCESS CHAMBER GAS CHECK

● ACCESS CHAMBER FLAT TOP

● DROP IN ACCESS CHAMBER

● LADDER IN ACCESS CHAMBER

● LANDING IN ACCESS CHAMBER

Sq/J SQUARE JUNCTION

Ob OBLIQUE JUNCTION

W WATER MAINS

G GAS MAINS

E ELECT CABLES

T T-PHONE CABLES

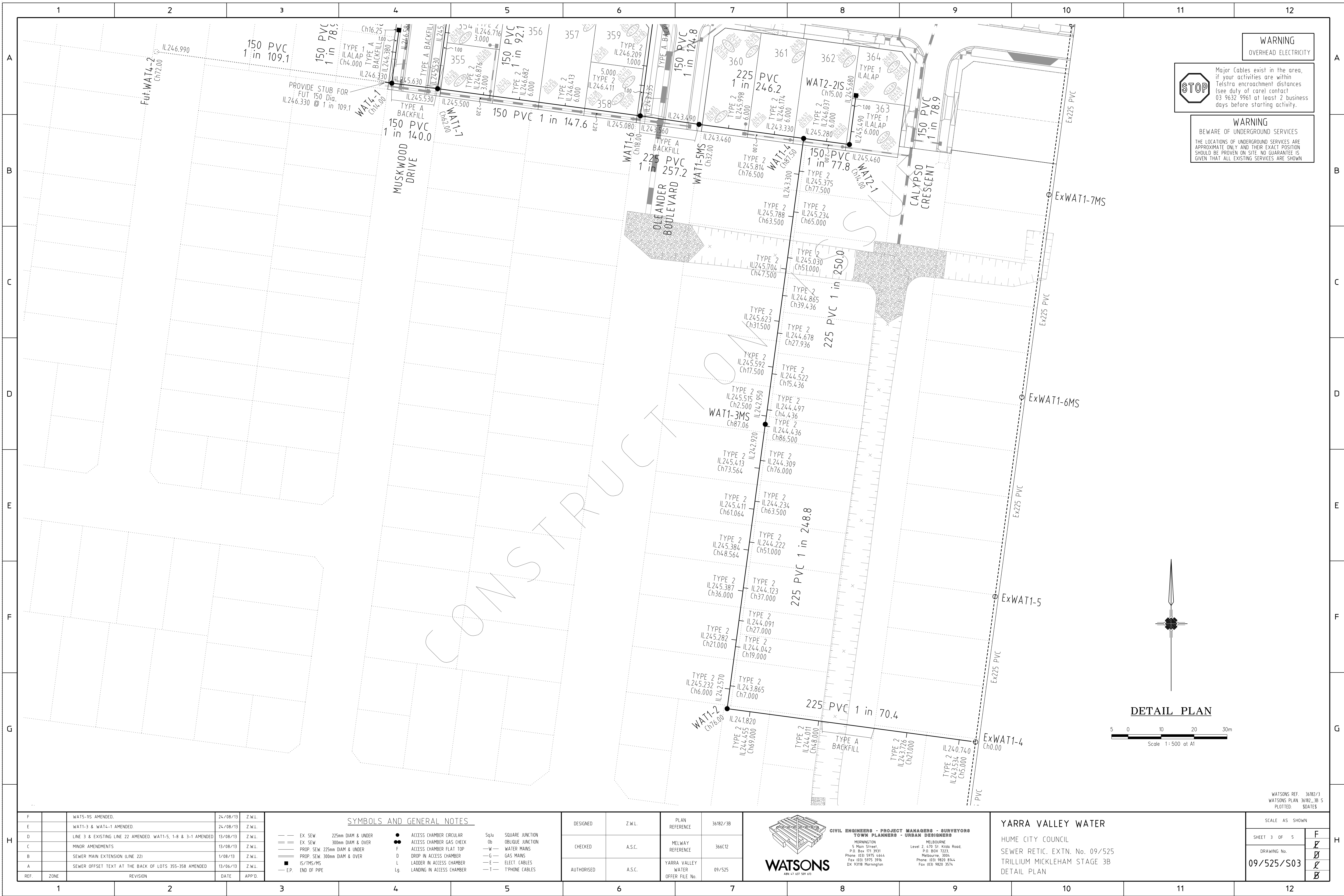
DESIGNED	Z.W.L.	PLAN REFERENCE	36182/3B
CHECKED	A.S.C.	MELWAY REFERENCE	366C12
AUTHORISED	A.S.C.	YARRA VALLEY WATER OFFER FILE NO.	09/525

**CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS**  
**TOWN PLANNERS - URBAN DESIGNERS**  
MORNINGTON  
5 Main Street  
P.O. Box 171 3931  
Phone (03) 5975 4444  
Fax (03) 5975 3916  
DX 93198 Mornington  
MELBOURNE  
Level 2, 470 St. Kilda Road  
P.O. Box 1223  
Melbourne, 3004  
Phone (03) 9820 8544  
Fax (03) 9820 3574

**YARRA VALLEY WATER**  
HUME CITY COUNCIL  
SEWER RETIC. EXTN. No. 09/525  
TRILLIUM MICKLEHAM STAGE 3B  
DETAIL PLAN

SCALE AS SHOWN	
SHEET 2 OF 5	F
DRAWING No.	09/525/S02
	09/525/S02





WARNING

OVERHEAD ELECTRICITY

STOP

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WARNING

BEWARE OF UNDERGROUND SERVICES

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DETAIL PLAN

502030

Scale 1:500 at A1

F		WATS-1S AMENDED.	24/08/13	Z.W.L.	<div><div>— EX. SEW. 225mm DIAM &amp; UNDER</div><div>— EX. SEW. 300mm DIAM &amp; OVER</div><div>— PROP. SEW. 225mm DIAM &amp; UNDER</div><div>— PROP. SEW. 300mm DIAM &amp; OVER</div><div>— IS/TMS/MS</div><div>— E.P. END OF PIPE</div><div>● ACCESS CHAMBER CIRCULAR</div><div>● ACCESS CHAMBER GAS CHECK</div><div>● ACCESS CHAMBER FLAT TOP</div><div>○ DROP IN ACCESS CHAMBER</div><div>— LADDER IN ACCESS CHAMBER</div><div>— LANDING IN ACCESS CHAMBER</div><div>Sq/J SQUARE JUNCTION</div><div>Ob OBLIQUE JUNCTION</div><div>— W WATER MAINS</div><div>— G GAS MAINS</div><div>— E ELECT CABLES</div><div>— T PHONE CABLES</div></div>	DESIGNED	Z.W.L.	PLAN REFERENCE	36182/3B	<div><div></div><div>CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS TOWN PLANNERS - URBAN DESIGNERS</div><div>MORNINGTON 5 Main Street P.O. Box 111 3931 Phone (03) 5975 4444 Fax (03) 5975 3916 DX 93198 Mornington</div><div>MELBOURNE Level 2, 470 St. Kilda Road, P.O. Box 1223 Melbourne, 3004 Phone (03) 9820 8644 Fax (03) 9820 3574</div></div>	YARRA VALLEY WATER	SCALE AS SHOWN	SHEET 3 OF 5	F	
E		WAT1-3 & WAT4-1 AMENDED.	24/08/13	Z.W.L.		CHECKED	A.S.C.	MELWAY REFERENCE	366C12		<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>				
D		LINE 3 & EXISTING LINE 22 AMENDED. WAT1-5, 1-8 & 3-1 AMENDED	13/08/13	Z.W.L.		AUTHORISED	A.S.C.	YARRA VALLEY WATER OFFER FILE No.	09/525						
C		MINOR AMENDMENTS	13/08/13	Z.W.L.											
B		SEWER MAIN EXTENSION (LINE 22)	1/08/13	Z.W.L.											
A		SEWER OFFSET TEXT AT THE BACK OF LOTS 355-358 AMENDED	13/06/13	Z.W.L.											
REF.	ZONE	REVISION	DATE	APP'D.											

WATSONS REF. 36182/3  
WATSONS PLAN 36182\_3B 5  
PLOTTED: 5/04/2015

SHEET 3 OF 5		F
DRAWING No.  09/525/S03		E
		D
		C
		B

