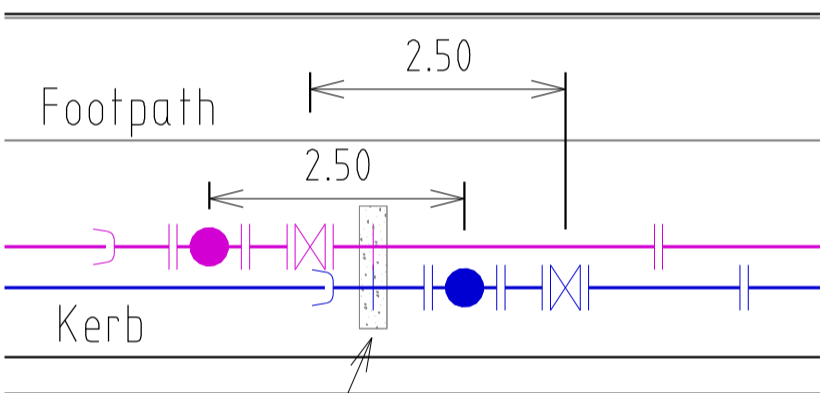


DESIGN HEAD: 67.3 m
 ZONE: RESIDENTIAL
 TEST PRESSURE: 1000 kPa



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

Typical Valve Cluster Arrangement



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

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 non-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.

- Unless otherwise informed, all NDW main to meter connections shall be inspected by the Water Agency, with the Water Agency being notified at least 5 days prior to connection .

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

- 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	Type	Class	Drinking Main	Non-Drinking Main
			Length	Length
225	PVC-O or PVC-M	16	37m	-
150	PVC-O or PVC-M	16	232m	-
100	PVC-O or PVC-M	16	169m	-
63	PE80	12.5	-	-
50	PE80	12.5	-	-
40	PE80	12.5	Property Services	Property Services
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	DW - YVW	End of Line	GRAND BLVD	Front of Future Lot
150	WASHOUT	DW - YVW	End of Line	OLEANDER PARADE	Front of Lot 358
100	WASHOUT	DW - YVW	End of Line	ABLOOM VIEW	Front of Future Lot
100	WASHOUT	DW - YVW	End of Line	TURION DRIVE	Front of Future Lot
100	WASHOUT	DW - YVW	End of Line	MUSKWOOD DRIVE	Front of Lot 355
100	HYDRANT	DW - 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 ²)	Depth (m)	Width (m)	Quantity	Fitting	AHBP (kPa) USED
A	Detail E, MRWA-W-308	1.03	N/A	N/A	1	225 CHLORIN	50
B	Detail A-D, MRWA-W-205B	0.48	N/A	N/A	4	150 TEE/CAP	50
D	Detail A-D, MRWA-W-205B	0.23	N/A	N/A	5	100 TEE/CAP	50
E	Detail A-D, MRWA-W-205B	0.30	N/A	N/A	2	150/100 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 <td>YVW REQUESTED AMENDMENTS</td> <td>2/9/13</td> <td>Z.W.L.</td>	YVW REQUESTED AMENDMENTS	2/9/13	Z.W.L.
D <td>TAPPINGS ADDED FOR FUTURE LOT NORTH OF TURION DRV</td> <td>21/8/13</td> <td>Z.W.L.</td>	TAPPINGS ADDED FOR FUTURE LOT NORTH OF TURION DRV	21/8/13	Z.W.L.
C <td>TAPPINGS ADDED FOR FUTURE LOT WEST OF MUSKWOOD DRV</td> <td>21/8/13</td> <td>Z.W.L.</td>	TAPPINGS ADDED FOR FUTURE LOT WEST OF MUSKWOOD DRV	21/8/13	Z.W.L.
B <td>SERVICE OFFSET AMENDMENTS</td> <td>14/8/13</td> <td>Z.W.L.</td>	SERVICE OFFSET AMENDMENTS	14/8/13	Z.W.L.
A <td>POTABLE WATER TAPPING ADDED FOR RESERVE</td> <td>1/08/13</td> <td>Z.W.L.</td>	POTABLE WATER TAPPING ADDED FOR RESERVE	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

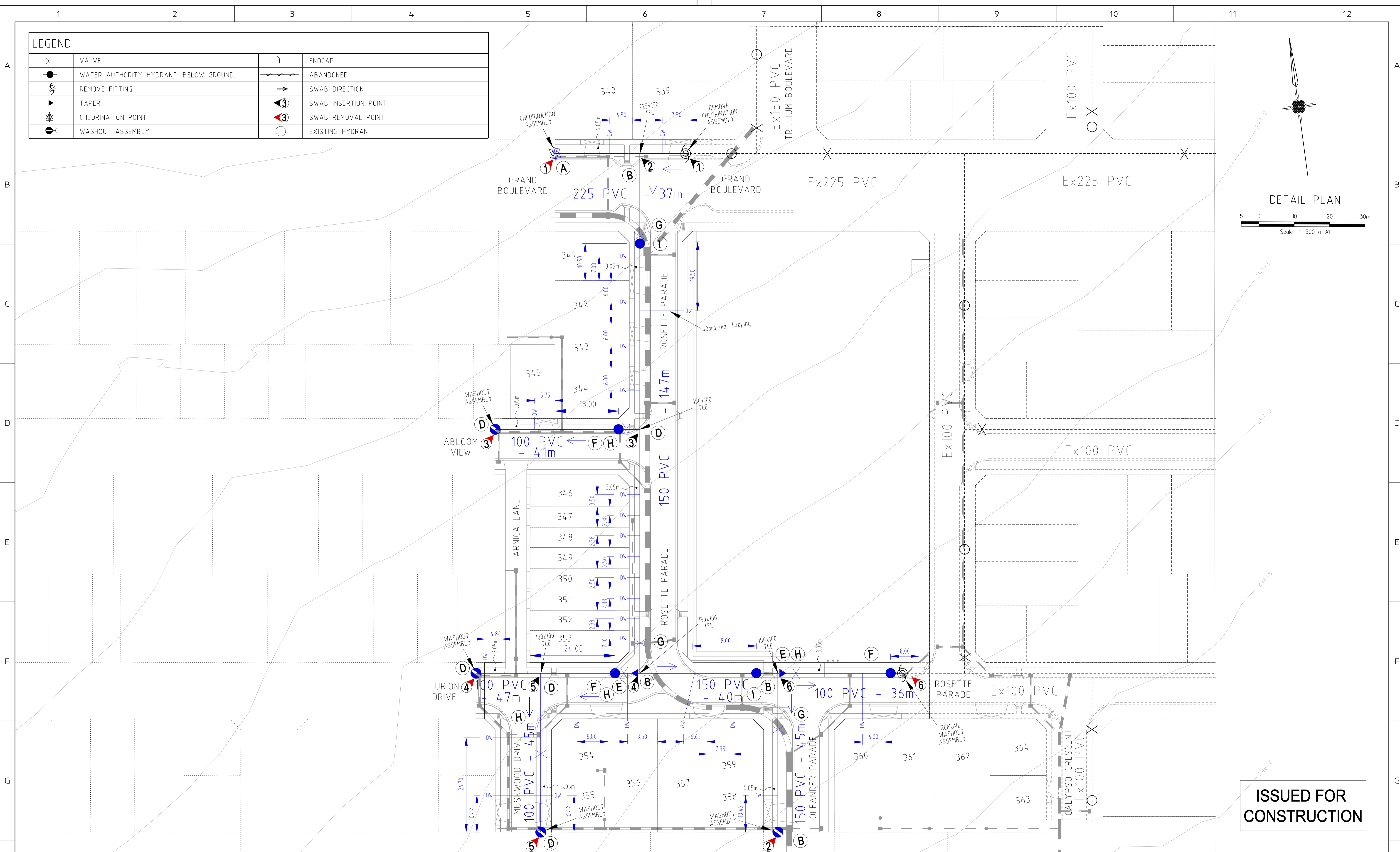
WATSONS
 CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS
 TOWN PLANNERS - URBAN DESIGNERS
 MORNINGTON 5 Main Street P.O. Box 171 3931 Phone: (03) 5975 4644 Fax: (03) 5975 3916 DX 93118 Mornington
 MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone: (03) 9697 8000 Fax: (03) 9697 8099

Yarra Valley Water

YARRA VALLEY WATER
 ACN 066 902 501
 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
	DW01


LEGEND			
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

REV	DESCRIPTION	DATE	APPROVED
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	SERVICE OFFSET AMENDMENTS	14/8/13	Z.W.L.
A	POTABLE WATER TAPPING ADDED FOR RESERVE	1/08/13	Z.W.L.

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




WATSONS
ABN 47 637 509 413

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

MORNINGTON 5 Main Street P.O. Box 171 3931 Phone: (03) 5975 4644 Fax: (03) 5975 3916 DX 93118 Mornington

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



Yarra Valley Water

YARRA VALLEY WATER
ACN 066 902 501

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

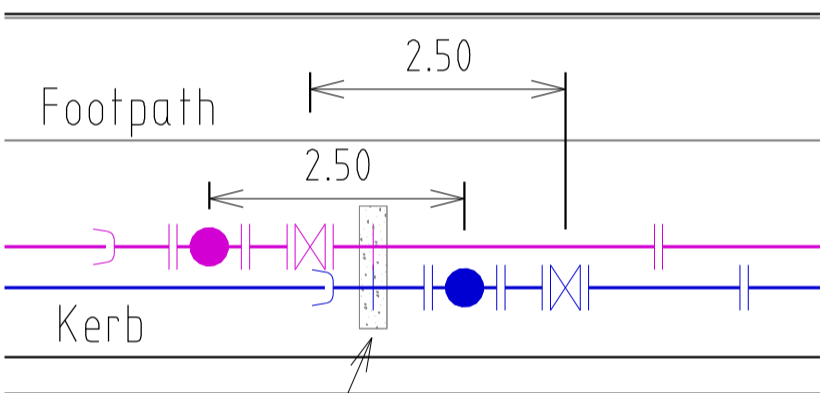
SCALE AS SHOWN	
SHEET 2 of 2	F
DRAWING No.	09/525
	DW02

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.

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.

- Unless otherwise informed, all NDW main to meter connections shall be inspected by the Water Agency, with the Water Agency being notified at least 5 days prior to connection .

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

- 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 Size (DN)	Type	Class	Drinking Main		Non-Drinking Main	
			Length	Length	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	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 ²)	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

WATSONS
 CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS
 TOWN PLANNERS - URBAN DESIGNERS
 MORNINGTON 5 Main Street P.O. Box 171 3931 Phone: (03) 5975 4644 Fax: (03) 5975 3916 DX 93118 Mornington
 MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone:(03) 9697 8000 Fax:(03) 9697 8099

Yarra Valley Water

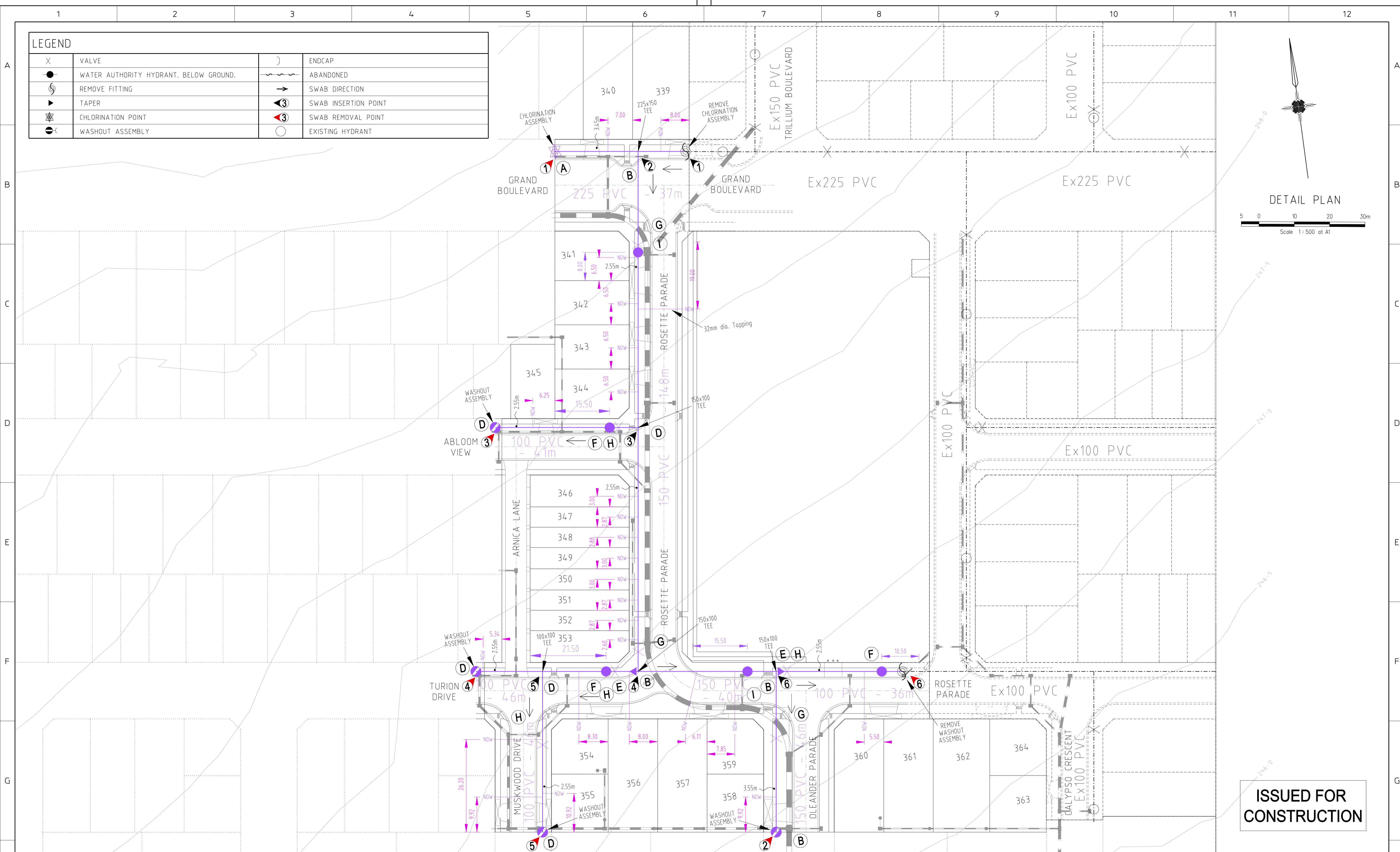
YARRA VALLEY WATER
 ACN 066 902 501
 NON DRINKING WATER MAIN PLAN
 TRILLIUM - STAGE 3B
 535 MOUNT RIDLEY ROAD, MICKLEHAM
 HUME CITY COUNCIL

SCALE AS SHOWN
 SHEET 1 of 2
 DRAWING No. 09/525 NDW01

LEGEND			
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



DETAIL PLAN
Scale 1:500 at A1



ISSUED FOR CONSTRUCTION

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

WATSONS
481 47 637 509 413

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

MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4644
Fax: (03) 5975 3916
DX 93118 Mornington

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

Yarra Valley Water

YARRA VALLEY WATER
ACN 066 902 501

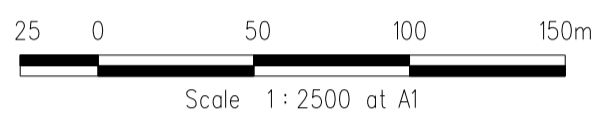
NON DRINKING WATER MAIN PLAN
TRILLIUM - STAGE 3B
535 MOUNT RIDLEY ROAD, MICKLEHAM
HUME CITY COUNCIL

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

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
9	GRAND BOULEVARD CROSS SECTIONS
10	ROSETTE PARADE LONGITUDINAL & CROSS SECTIONS
11-13	ROSETTE PARADE CROSS SECTIONS
14	ABLOOM VIEW LONGITUDINAL & CROSS SECTIONS
15	TURION DRIVE LONGITUDINAL & CROSS SECTIONS
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

LOCALITY PLAN



AS CONSTRUCTED

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: 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\R01.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
5 Main Street,
P.O. Box 173 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3936
DX: 93118 Mornington

MELBOURNE
The Melbourne, Suite 2
326 St. Kilda Road,
Melbourne, 3002
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

HUME CITY COUNCIL NOTES

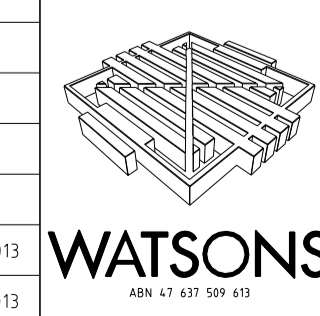
- 1 ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- 2 COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT 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
- 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
- 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
- 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
- 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
- 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
- 8 ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
- 9 ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD)
- 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
- 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
- 12 FILLING TO COMPLY WITH A S 3798-1996 APPENDIX B, LEVEL 1 (OR 2) AS SPECIFIED
- 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
- 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
- 15 NO TREE OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCIL'S SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE
- 16 BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA
- 17 THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT
- 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
- 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
- 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
- 21 ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED
- 22 ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SANDBLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED

- 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
- 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
- 25 WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY
- 26 ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE
- 27 ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- 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
- 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
- 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
- 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
- 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
- 33 AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS
- 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
- 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
- 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
- 37 ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A S 1743-2001
- 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
- 39 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.0m FROM THE LOW SIDE TITLE BOUNDARY AND PROPERTY INLETS 1.0m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN
- 40 BLASTING GENERALLY IS NOT ENCOURAGED, HOWEVER BLASTING MAY BE REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS 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

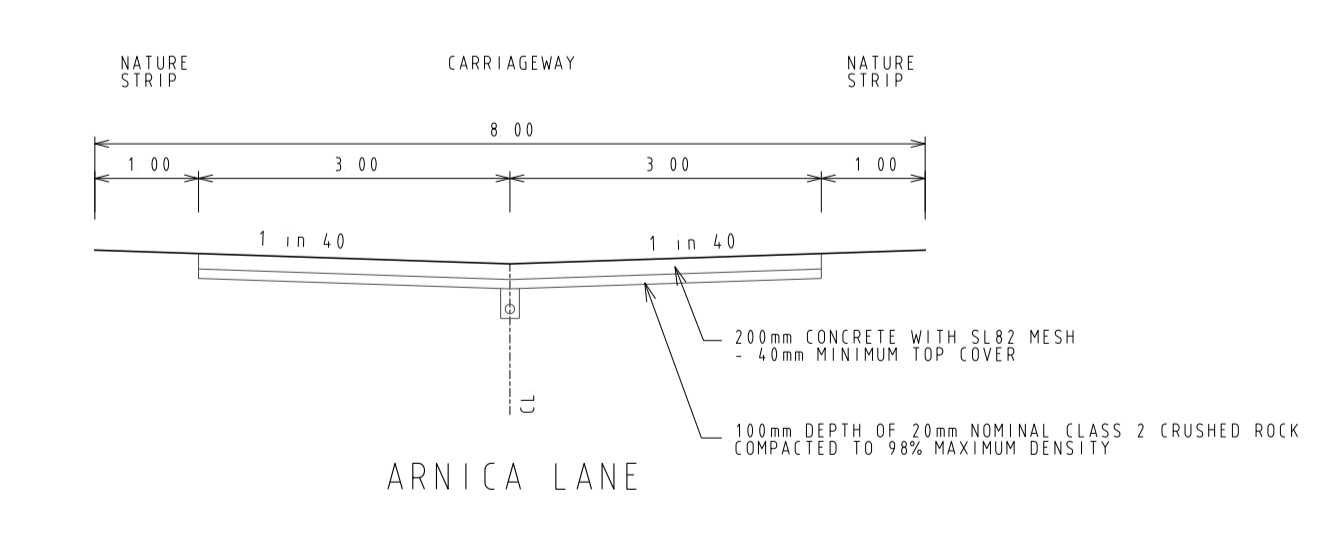
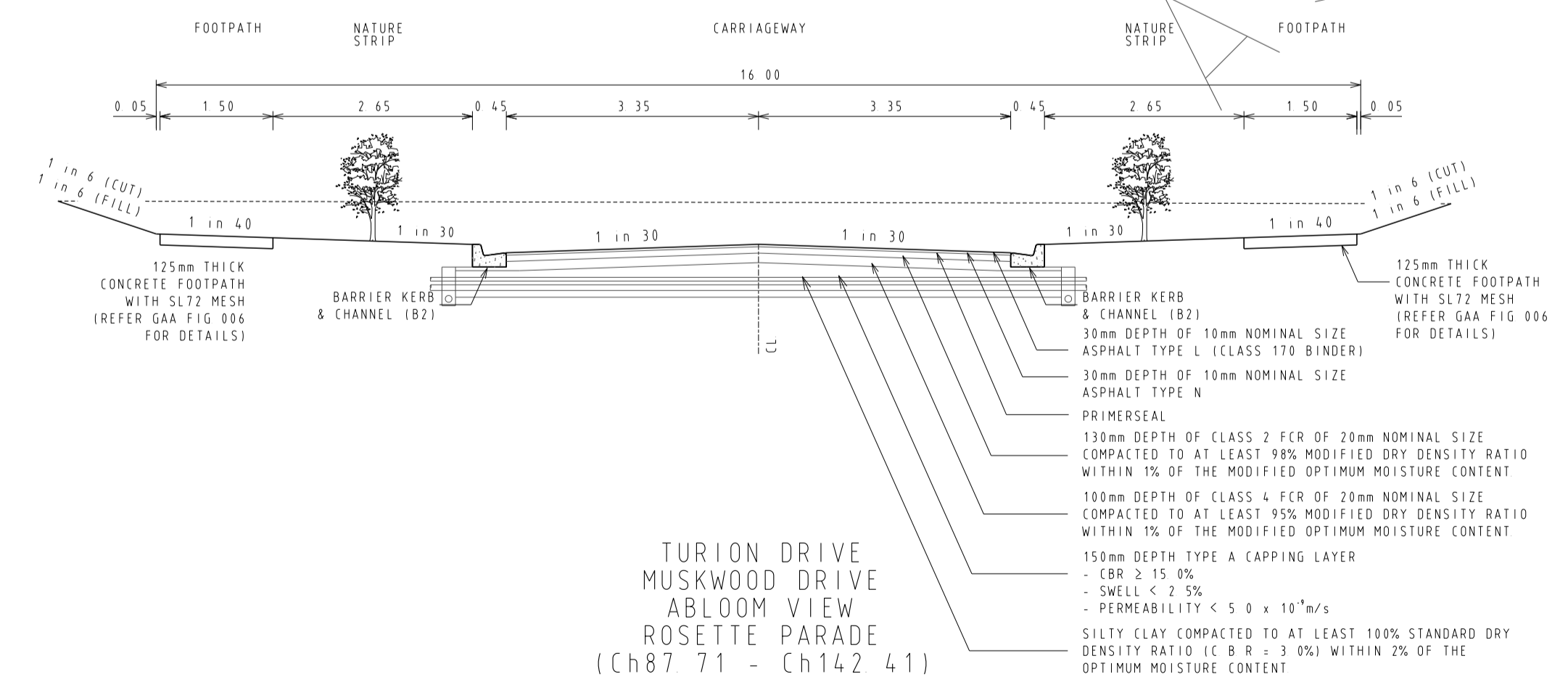
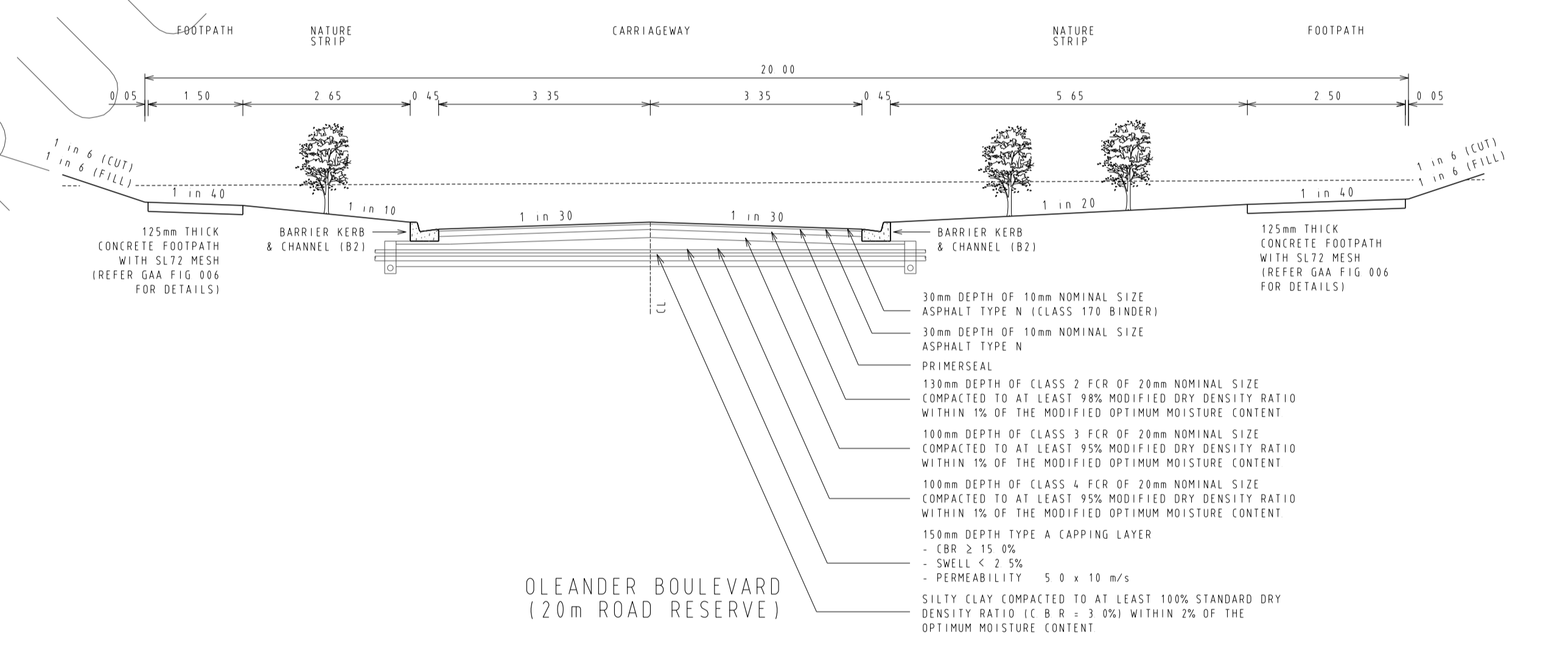
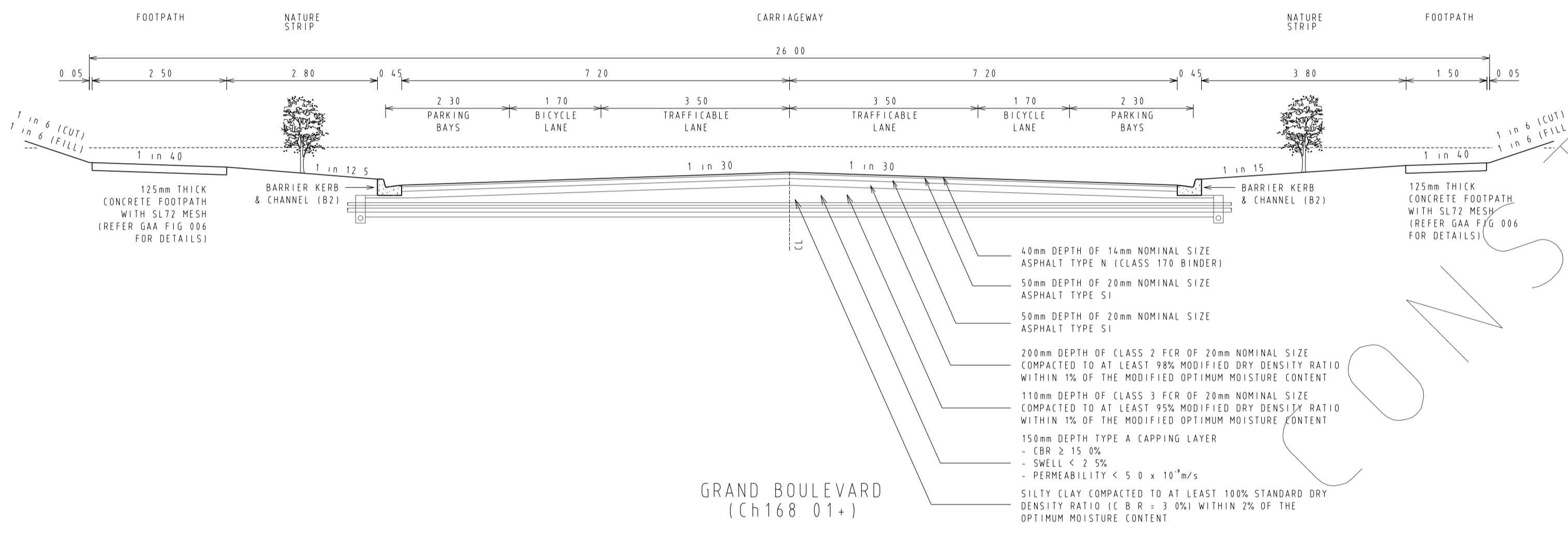
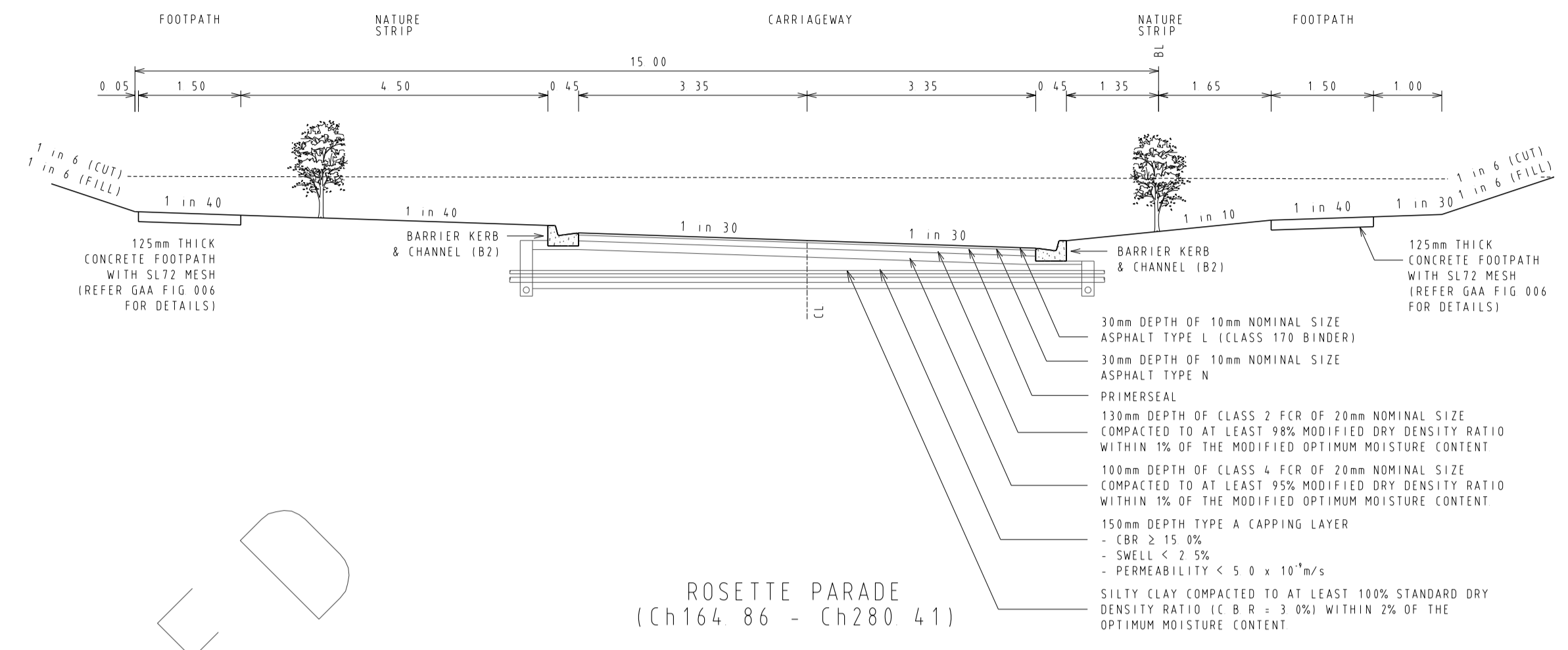
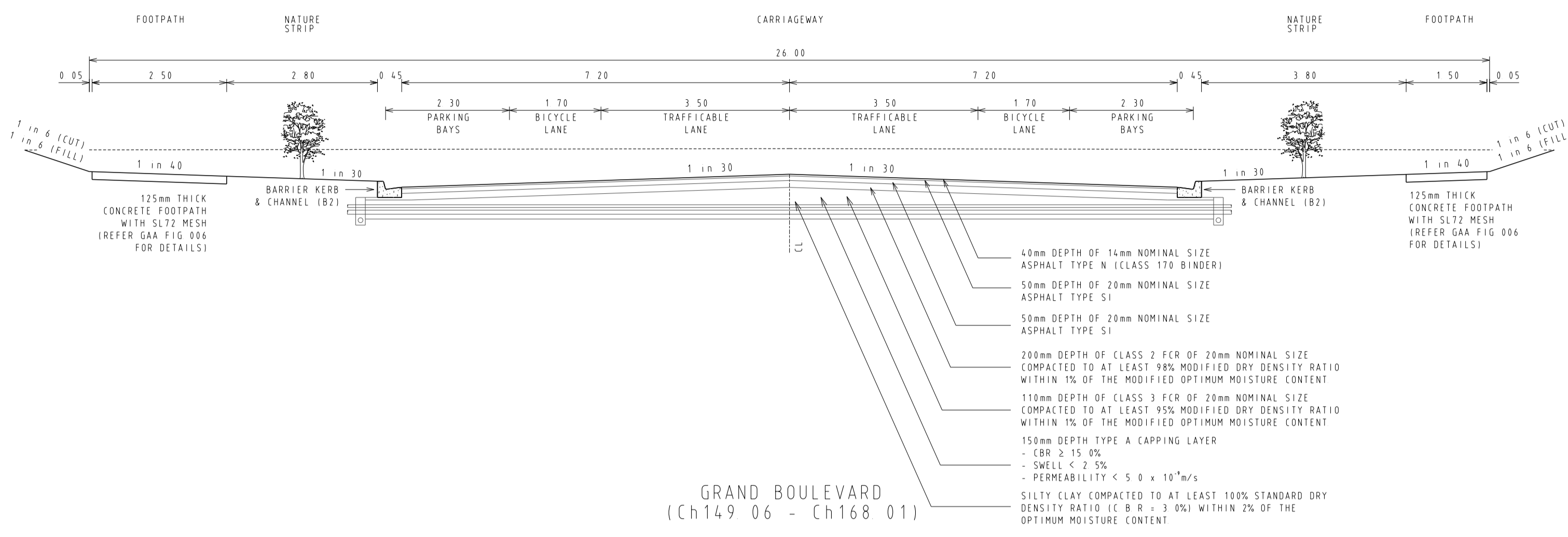
SITE SPECIFIC NOTES

- 1 ALL CONSTRUCTION TRAFFIC, STORAGE AND COMPOUNDS ARE TO BE LIMITED TO THE SITE OF WORKS. THE FUTURE STAGE AREA IS TO BE KEPT UNDISTURBED, EXCEPT FOR SPECIFIC WORKS
- 2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE SILTATION CONTROL DURING THE CONSTRUCTION AND MAINTENANCE PERIODS
- 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 ALL SERVICES TRENCHES UNDER PAVEMENT WORKS ARE TO BE BACKFILLED WITH FCR AS SPECIFIED
- 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 AG DRAIN TO BE CONSTRUCTED BEHIND ALL KERB AND CHANNEL
- 7 ALL DRAINAGE PIPES GREATER THAN 150mm TO BE R R J CLASS 2 (UNO)
- 8 ACCESS TO EXISTING RESIDENCE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION
- 9 ALL DRAINAGE LINES UNDER PAVEMENTS, PARKING BAYS, ETC AND WHERE TRENCH IS WITHIN 150mm OF BACK OF KERB ARE TO BE BACKFILLED WITH FCR AS SPECIFIED
- 10 APPROPRIATE INSPECTIONS SHALL BE ORGANISED WITH HUME CITY COUNCIL'S COUNCIL WORKS SUPERVISOR
- 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 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND BACKFILLING OF TRENCHING FOR RETICULATION ELECTRICITY AND COMMUNICATION CABLES, AND THE REMOVAL OF EXCESS SPOIL
- 13 MINIMUM FALL ON ALL LOTS TO BE 1 IN 150 LONGITUDINALLY
- 14 PAVEMENT DEPTH TO BE MODIFIED AS DIRECTED BY HUME CITY COUNCIL
- 15 USE OF ANY SOFT RIPPED ROCK IN ROAD PAVEMENT IS TO CONFORM TO SPECIFICATIONS FOR RIPPED ROCK
- 16 ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT HUME CITY COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF HUME CITY COUNCIL SUPERVISING ENGINEER
- 17 NO CUT OR FILL EXTENDS INTO BUILDING ENVELOPES, EXCEPT WHERE SHOWN
- 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 THE CONTRACTOR SHALL CONTACT TELSTRA'S NOMINATED REPRESENTATIVE, PETER FEBO (03) 9632 6384 FOR THE COORDINATION OF TELSTRA WORKS IN LAYING CONDUITS, AT LEAST 28 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF TELSTRA WORKS
- 20 TELSTRA AND ELECTRICITY CABLES ARE TO BE PLACED IN A SHARED TRENCH
- 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 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 FILLING AND THE LEVELS SHOWN ON THE 'AS-CONSTRUCTED' PLANS

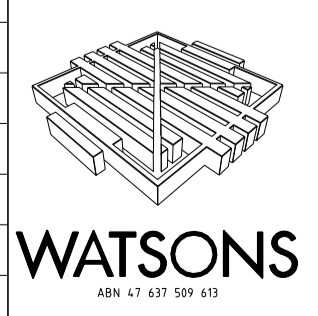
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LT00
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
07/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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



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



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LOPO
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	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\3d\3d.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



MORNINGTON
5 Main Street,
P.O. Box 171 3931
Melbourne, 3002
Phone: (03) 9375 4444
Fax: (03) 9375 3936
DX: 93118 Mornington

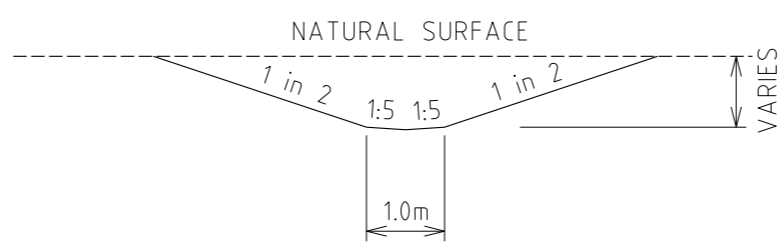
MELBOURNE
The Melbourne Suite 2
320 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9697 8000
Fax: (03) 9697 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R03
TYPICAL PAVEMENT CROSS SECTIONS		REVISION N
		SHEET 3 OF 27

SERVICE OFFSETS

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

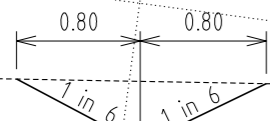
STREET NAME	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	SEWER
GRAND BOULEVARD	2.95 N	3.45 N	4.05 N	3.175 S	2.775 S	-
ABLOOM VIEW ROSETTE PARADE (E-W) TURION DRIVE	2.05 N	2.55 N	3.05 N	2.60 S (1.80 S ROSETTE PDE LOTS 357/359)	1.775 S (1.30 S ROSETTE PDE LOTS 357/359)	-
ROSETTE PARADE IN-SI	2.05 W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



**TEMPORARY OUTFALL DRAIN
(1 in 1000 LONGITUDINAL GRADE
DOWNSTREAM)
N.T.S.**

**TEMPORARY CUT OFF DRAIN
TYPICAL SECTION**

NOT TO SCALE
NOTE: DRAIN TO FOLLOW GRADE OF EXISTING SURFACE & SHOULD NOT BE FLATTER THAN 1 in 500.



CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

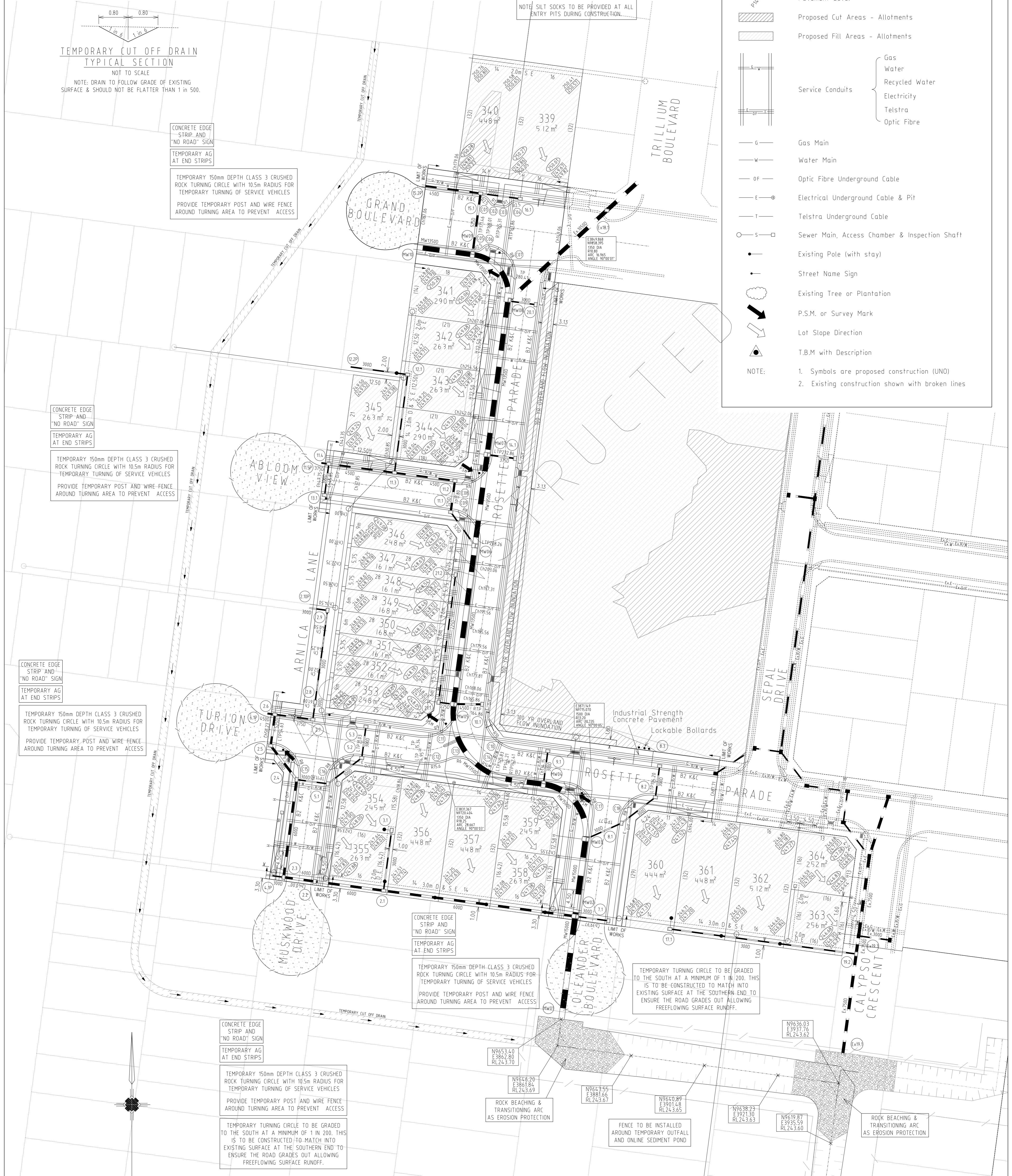
TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

TEMPORARY TURNING CIRCLE TO BE GRADED TO THE SOUTH AT A MINIMUM OF 1 in 200. THIS IS TO BE CONSTRUCTED TO MATCH INTO EXISTING SURFACE AT THE SOUTHERN END TO ENSURE THE ROAD GRADES OUT ALLOWING FREEFLOWING SURFACE RUNOFF.

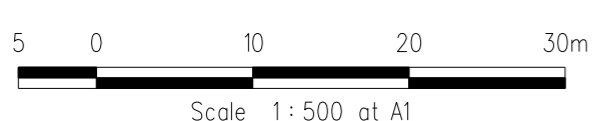
LEGEND

- 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



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	LEVEL DATA:	K\36182\36182\1\TOPO
22/01/14	M	PARK PATHWAY AMENDMENTS	DATUM:	AHD
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\R04.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



MORNINGTON
5 Main Street
P.O. Box 171 3911
Phone: (03) 5975 4444
Fax: (03) 5975 3916
24 93188 Mornington

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road
Melbourne, 3004
Phone: (03) 9647 8000
Fax: (03) 9647 8099

HUME CITY COUNCIL

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

DETAIL PLAN & SERVICE OFFSET TABLE

PLAN NUMBER: 36182/3B R04

REVISION: N

SHEET 4 OF 27

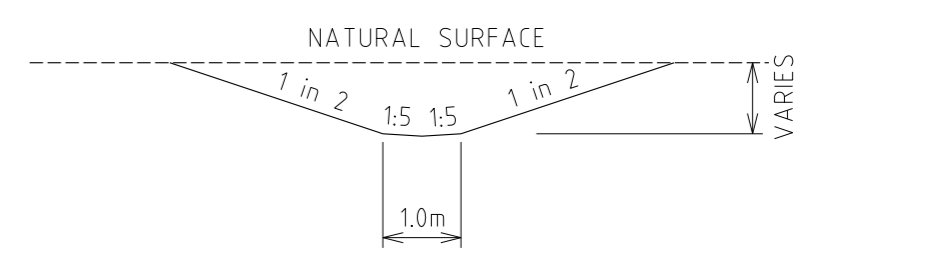
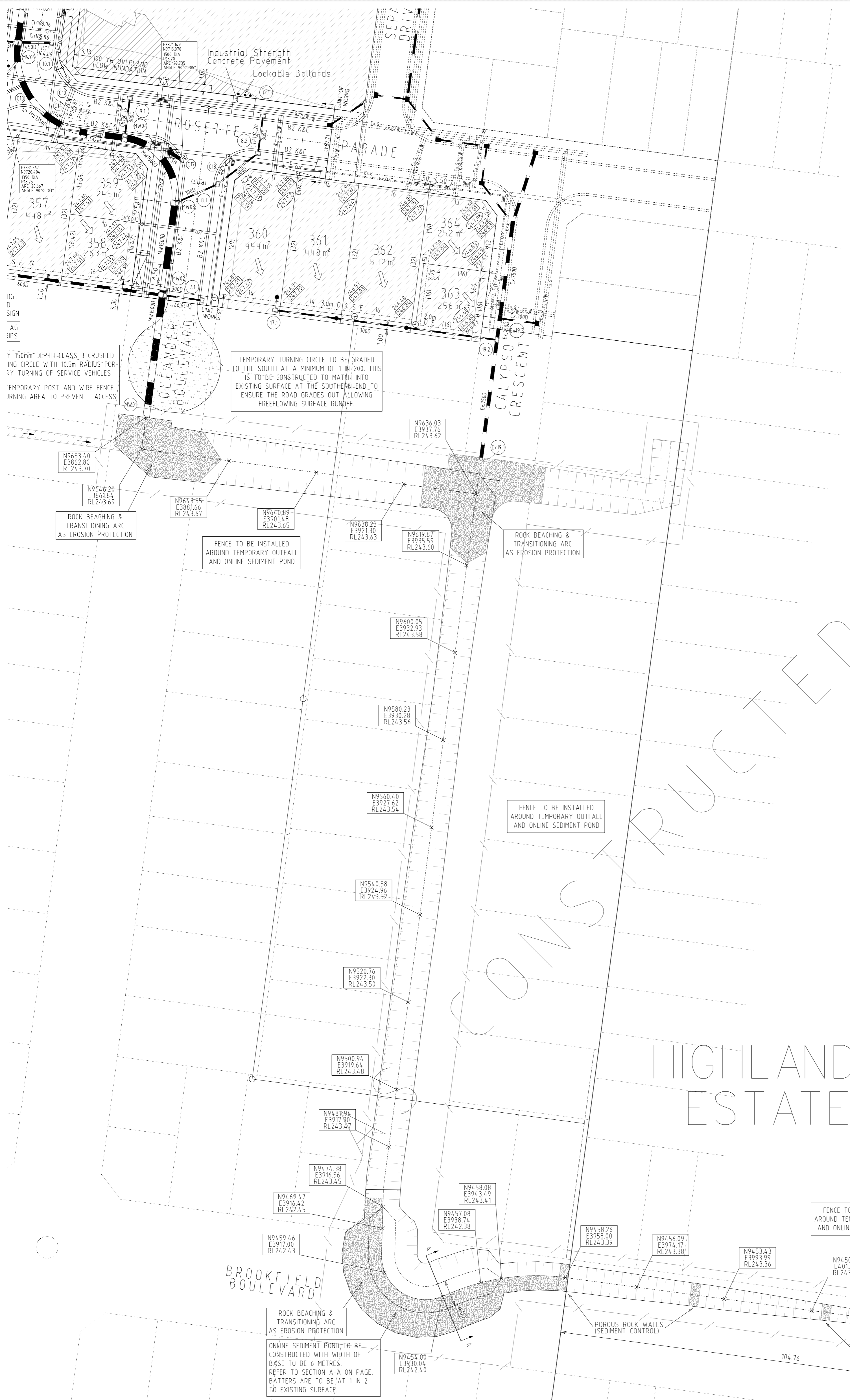
LEGEND

LEGEND

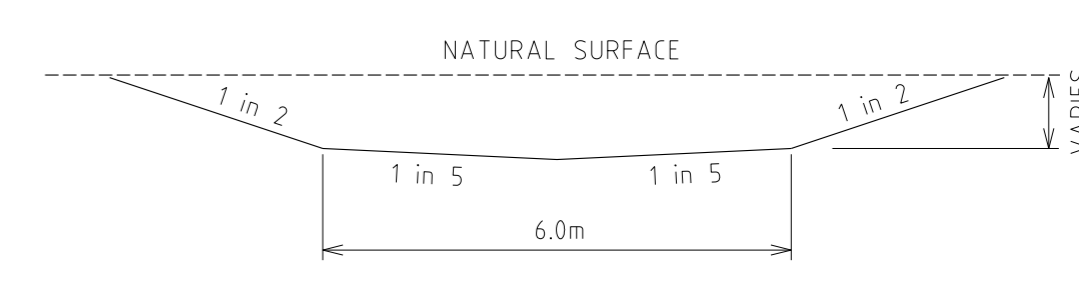
- Kerb & Channel
- Footpath, Vehicular Crossing Layback & House Drain
- Proposed Underground Drainage, Pit & Property Inlet
- Existing Underground Drainage, Pit & Property Inlet
- Drainage Pit Number
- Design Surface Level - Allotments
- Existing Surface Level - Allotments
- Top of Batter Level - Allotments (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:

- Symbols are proposed construction (UNO)
- Existing construction shown with broken lines



TEMPORARY OUTFALL DRAIN
(1 in 1000 LONGITUDINAL GRADE DOWNSTREAM)
N.T.S.



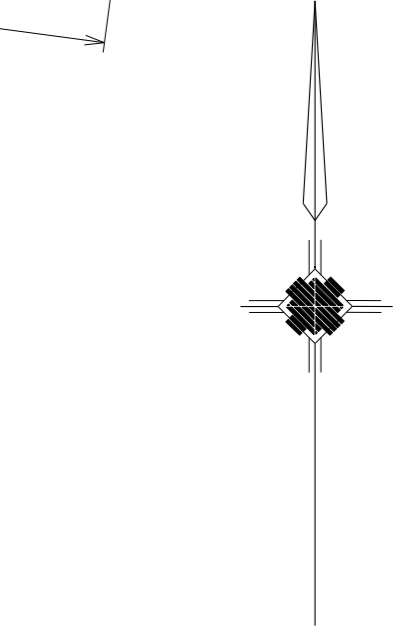
SECTION A-A
N.T.S.

HIGHLANDS ESTATE

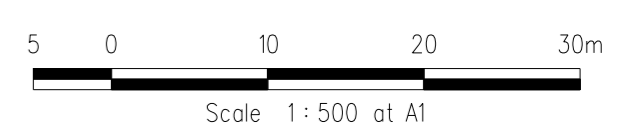
SERVICE OFFSETS

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

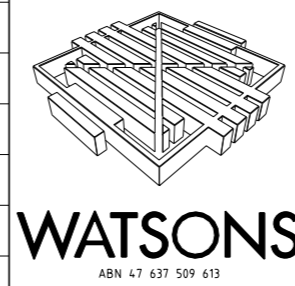
STREET NAME	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	SEWER
GRAND BOULEVARD	2.95 N	3.45 N	4.05 N	3.175 S	2.775 S	-
ABLOOM VIEW ROSETTE PARADE (E-W) TURION DRIVE	2.05 N	2.55 N	3.05 N	2.60 S (1.80 S ROSETTE PDE LOTS 357/359)	1.775 S (1.30 S ROSETTE PDE LOTS 357/359)	-
ROSETTE PARADE (N-S)	2.05 W	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



DETAIL PLAN



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K\36182\36182\1\TOPO
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\R04A.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



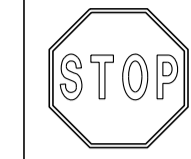
MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DA 9318 Mornington

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 R04A
DETAIL PLAN & SERVICE OFFSET TABLE		REVISION N
		SHEET 4A OF 27

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

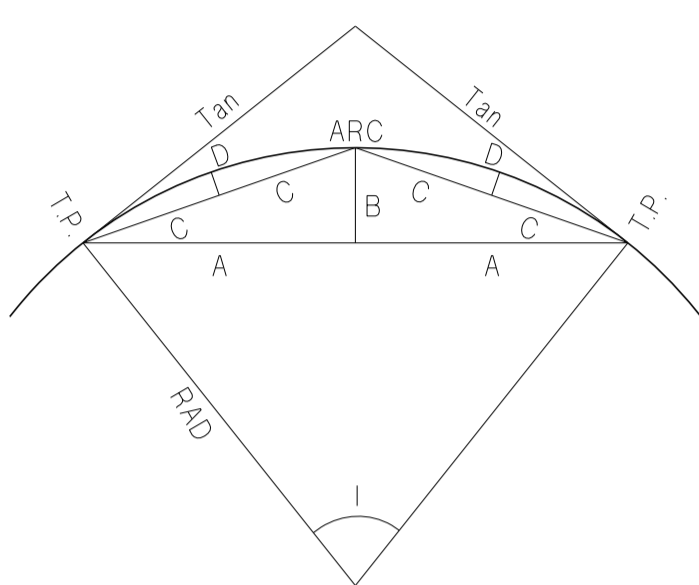
WARNING



OVERHEAD ELECTRICITY
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

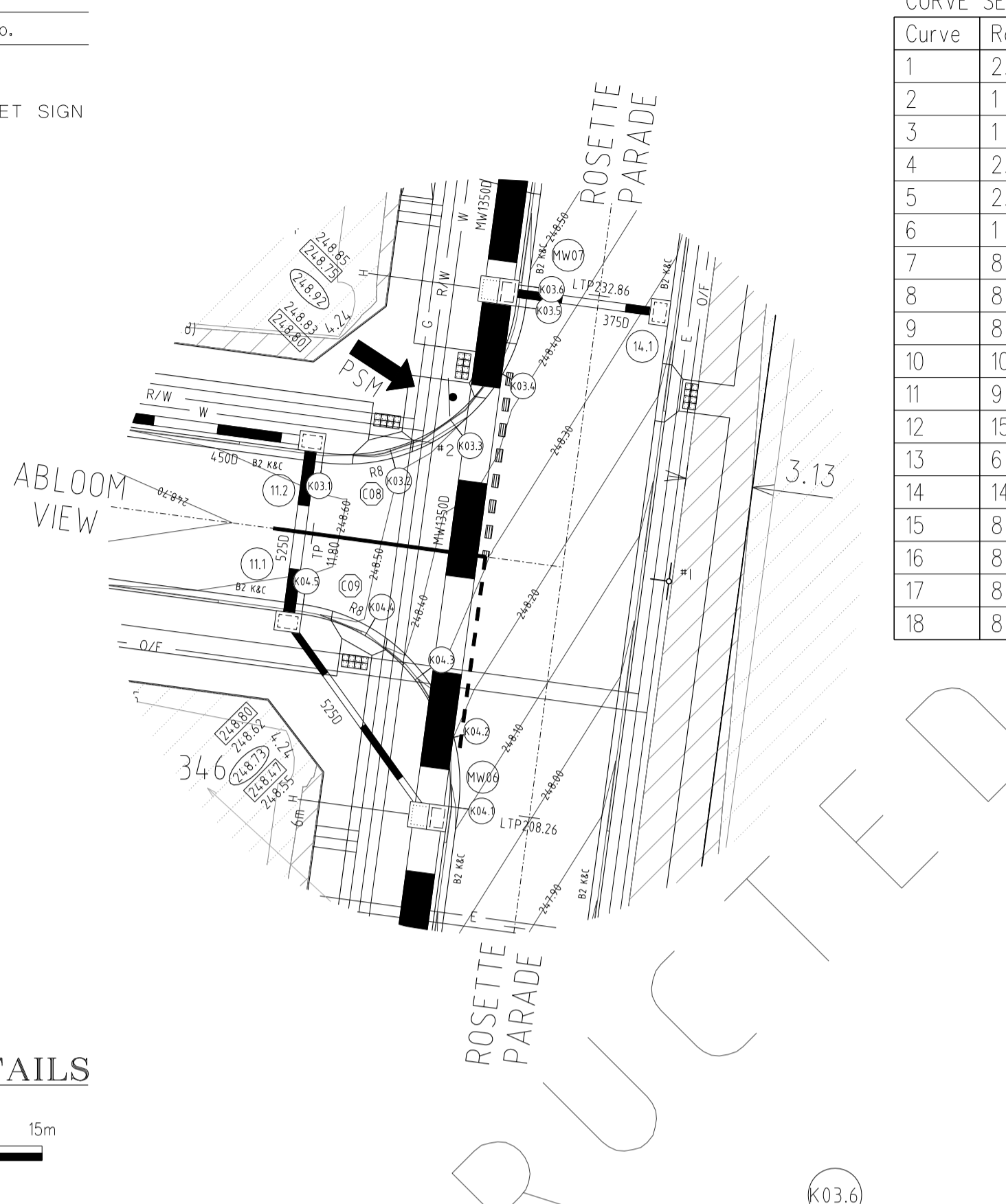
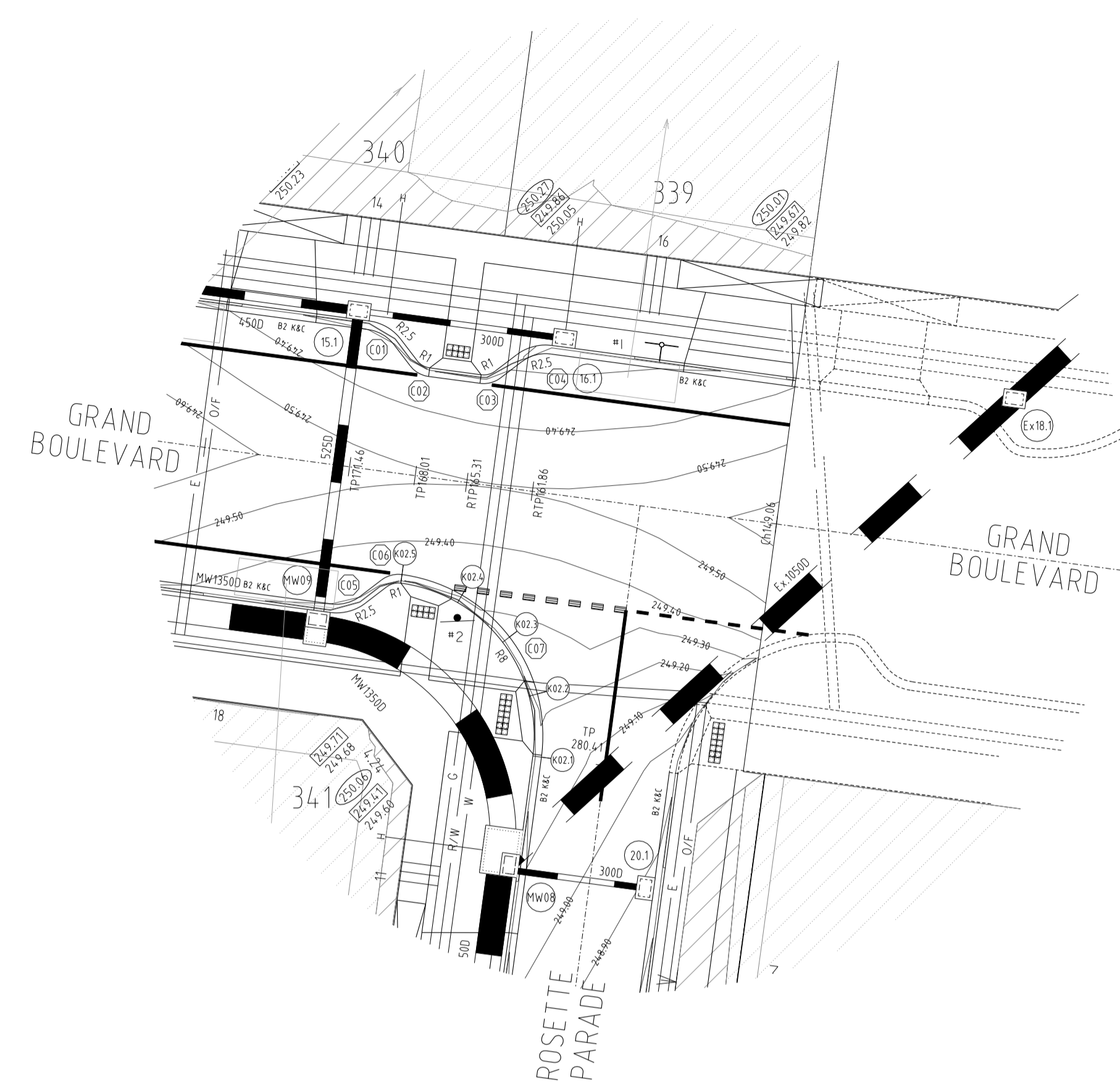
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN



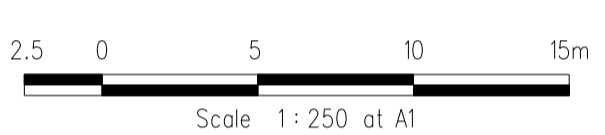
CURVE SETOUT TABLE

Curve	Radius	l	o	i	ii	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

PLAN I.D.	PICTORIAL	CODE No.
-----------	-----------	----------



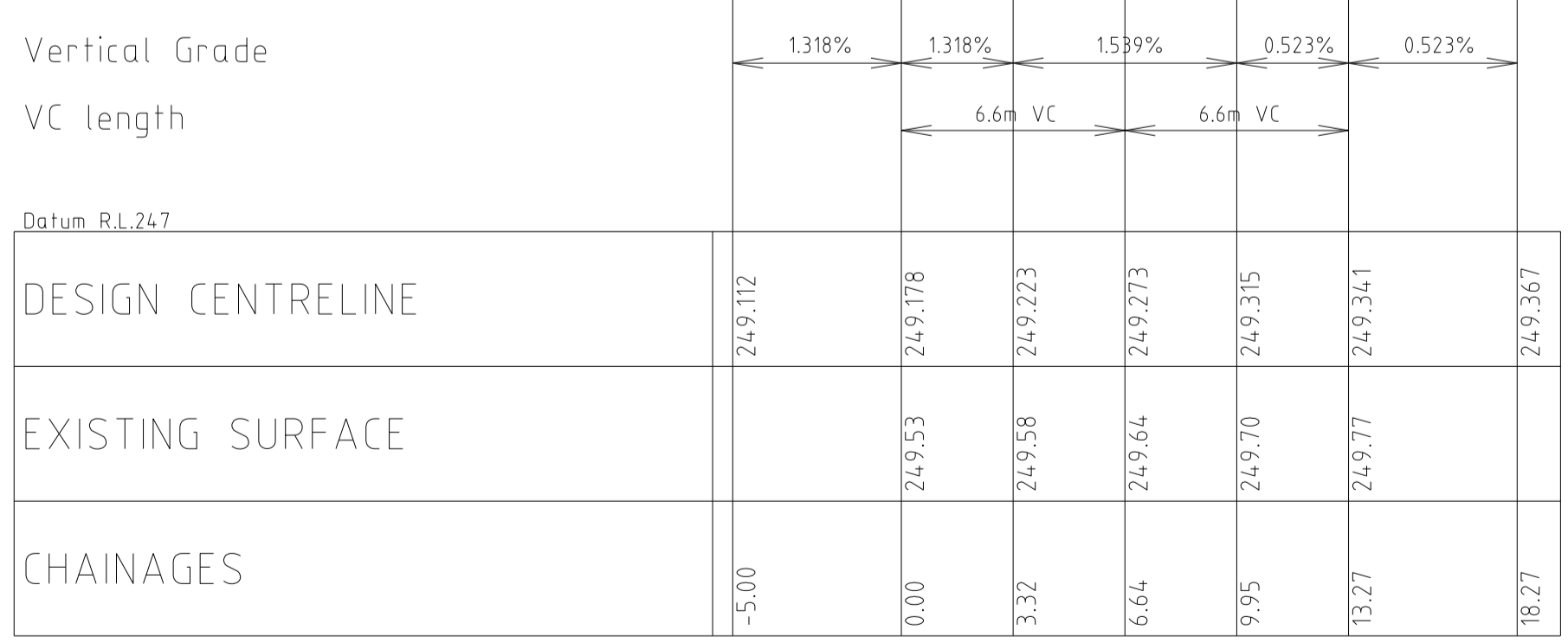
INTERSECTION DETAILS



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

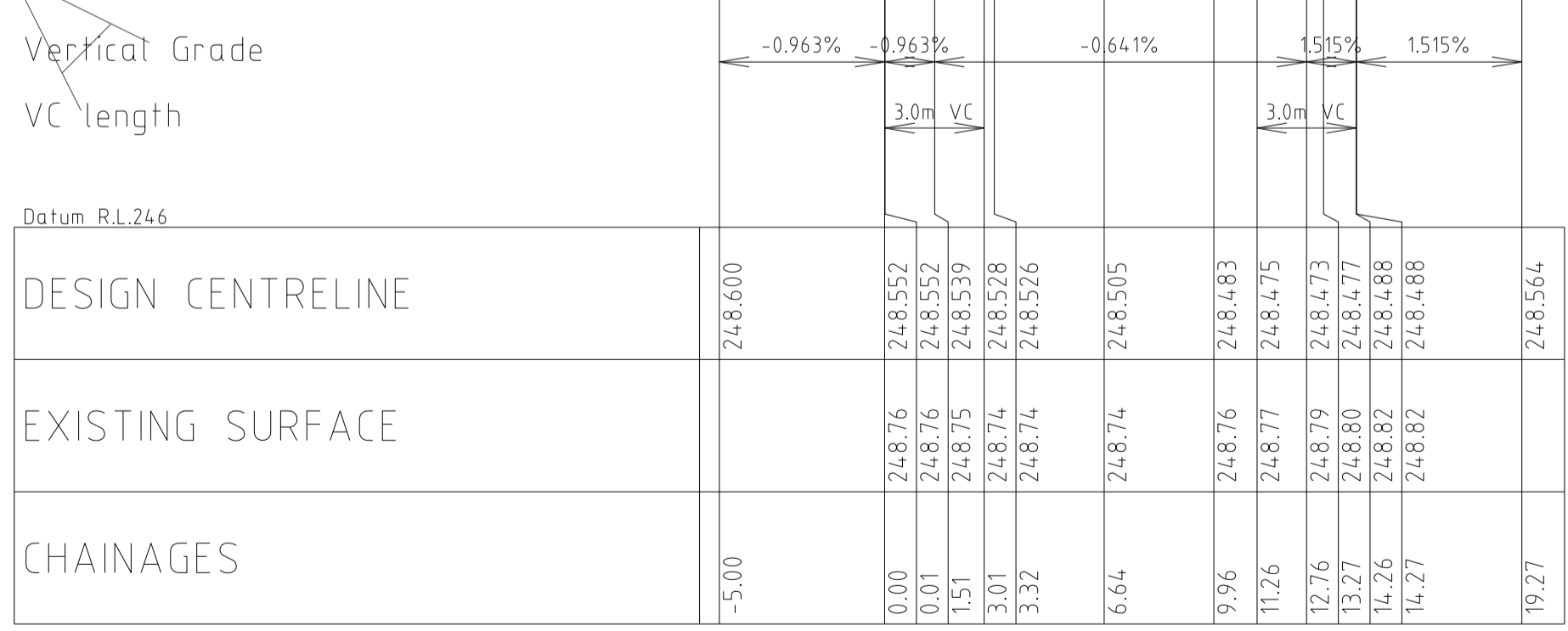


K02 LONGITUDINAL SECTION

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

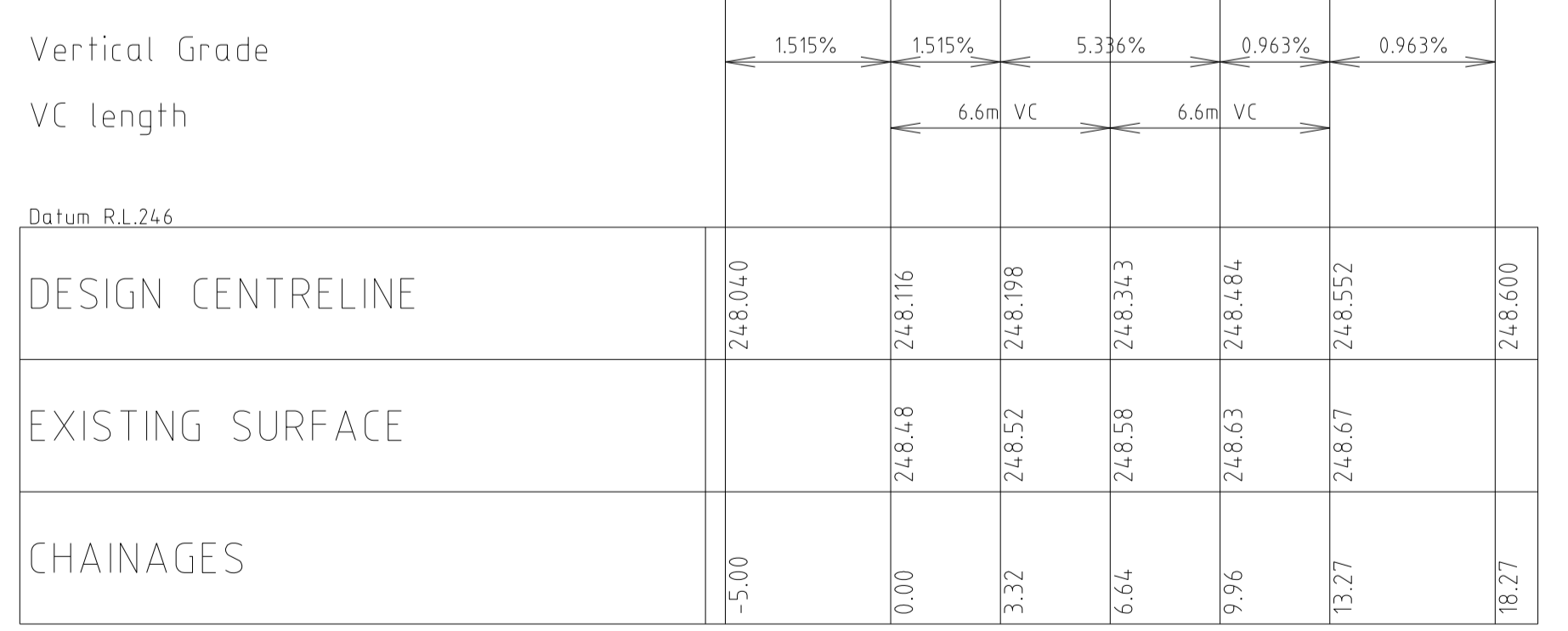


K03 LONGITUDINAL SECTION

KERB RETURN K04

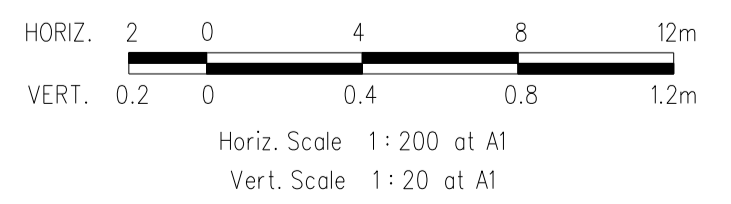
POINT NO.	EASTING	NORTHING	RL
K04.1	3840.941	9781.651	248.116
K04.2	3840.733	9784.94	248.198
K04.3	3839.282	9787.902	248.343
K04.4	3836.808	9790.081	248.484
K04.5	3833.69	9791.148	248.552

NOTE: SETOUT IS TO LIP OF KERB



K04 LONGITUDINAL SECTION

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\LT00
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
07/10/13	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\r05 dgn			AUTHORISED:	A.S.C DATE: MAY 2013

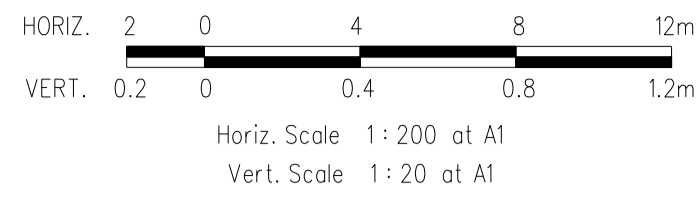


MORNINGTON
5 Main Street
P.O. Box 171 3911
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road
Melbourne, 3002
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 R05
INTERSECTION DETAILS, LIP OF KERB PROFILES & CURVE SETOUT TABLE		REVISION N
		SHEET 5 OF 27

LONGITUDINAL SECTIONS



KERB RETURN K05

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	3831.411	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

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
247.591		-5.00
247.542	247.99	0.00
247.541	247.99	0.02
247.528	247.97	1.52
247.519	247.95	3.00
247.519	247.95	3.02
247.499	247.91	6.71
247.479	247.90	10.42
247.459	247.91	14.13
247.445	247.94	16.81
247.443	247.95	17.84
247.445	247.96	18.31
247.462	247.98	19.81
247.462	247.98	19.84
247.546		24.84

K05 LONGITUDINAL SECTION

KERB RETURN K06

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

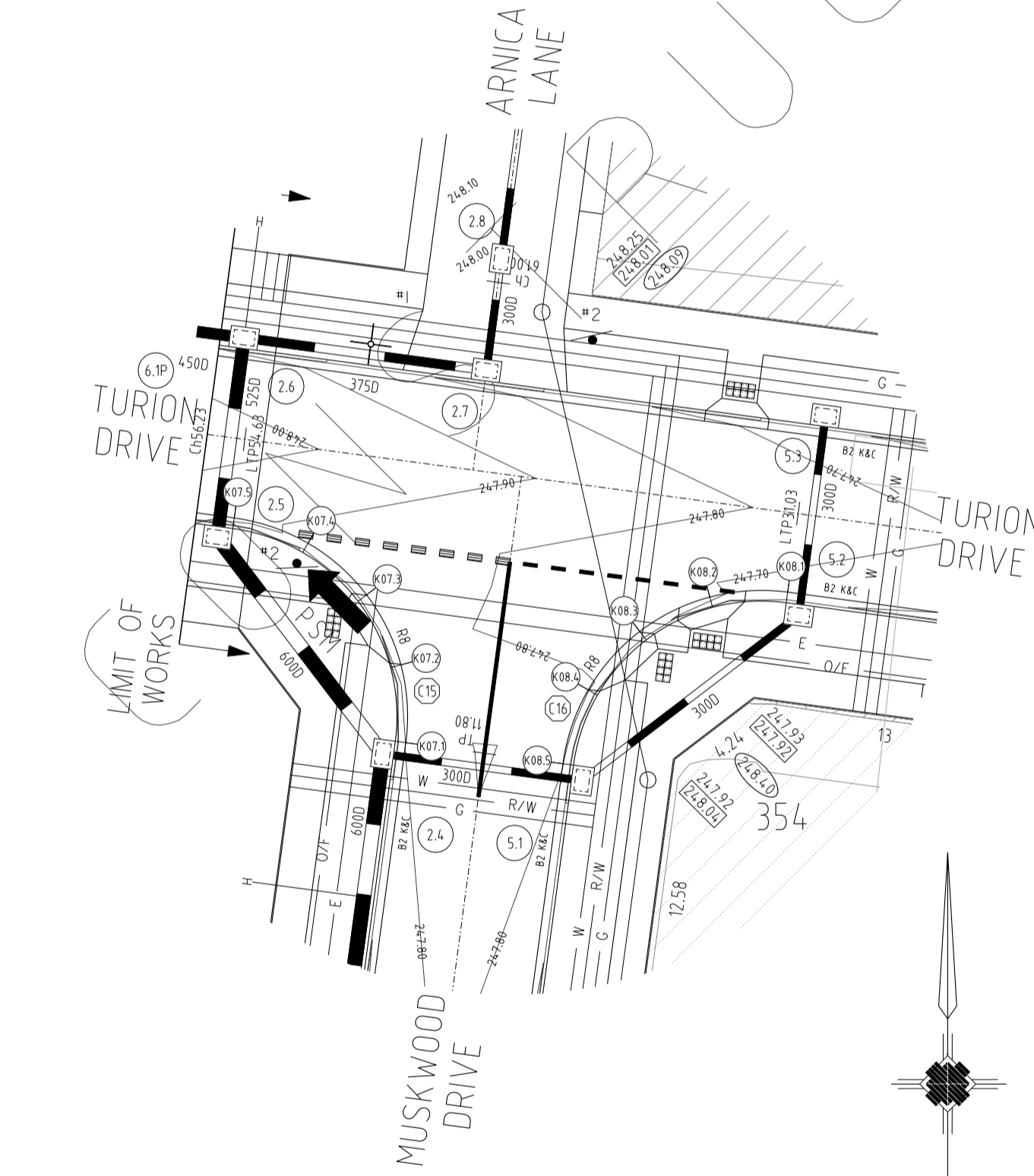
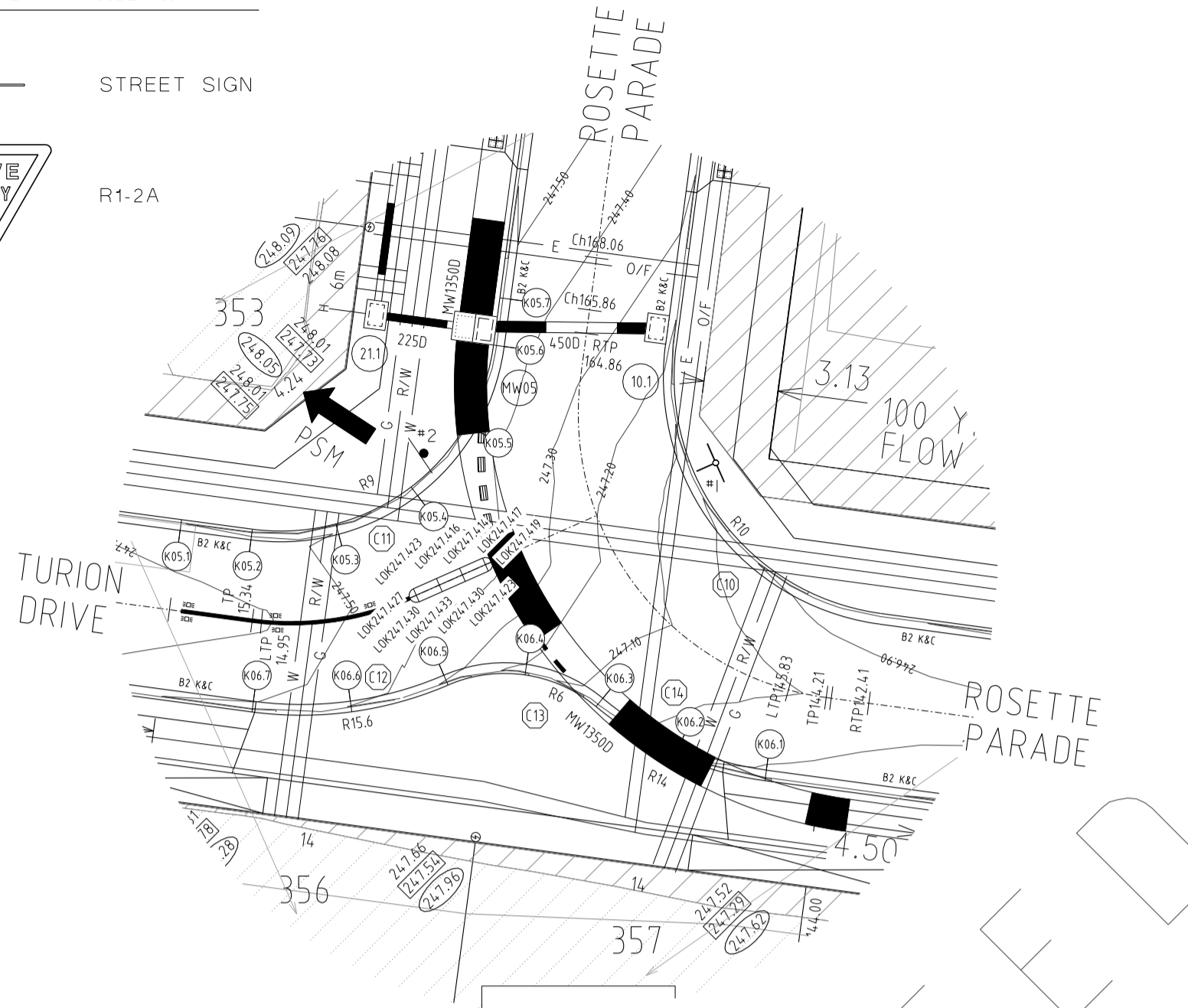
NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
246.825		-5.00
246.892	247.60	0.00
246.961	247.64	3.80
247.009	247.67	5.71
247.066	247.70	7.59
247.196	247.75	11.14
247.208	247.75	11.42
247.330	247.78	14.68
247.402	247.79	17.13
247.440	247.81	18.77
247.503	247.84	22.85
247.552		27.85

K06 LONGITUDINAL SECTION

PLAN I.D. PICTORIAL CODE No.



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

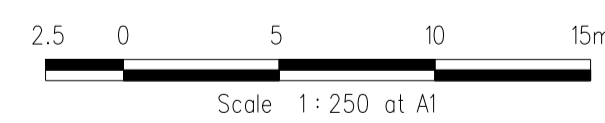
WARNING
OVERHEAD ELECTRICITY



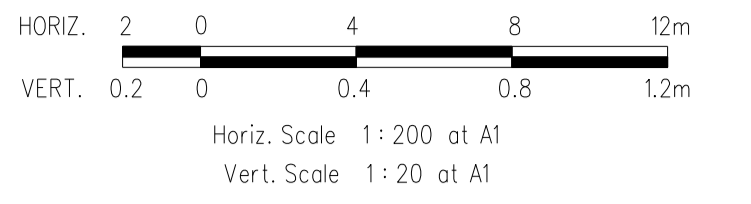
Major Cables exist in the area, if your activities are within Telstra encroachment distances (see duty of care) contact 03 9632 9961 at least 2 business days before starting activity.

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

INTERSECTION DETAILS



LONGITUDINAL SECTIONS



KERB RETURN K07

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

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

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

K07 LONGITUDINAL SECTION

KERB RETURN K08

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

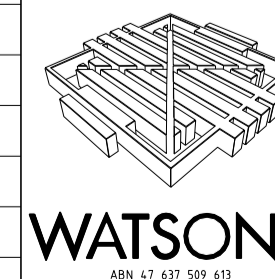
NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
247.614		-5.00
247.667	248.00	0.00
247.710	248.01	3.32
247.765	248.01	6.64
247.805	248.00	9.95
247.802	247.97	13.27
247.765		18.27

K08 LONGITUDINAL SECTION

DATE	DETAILS	AUTHORISED	SCALE:	AS SHOWN
14/02/14	N	AS CONSTRUCTED	DATE PRINTED:	14/02/2014
22/01/14	M	PARK PATHWAY AMENDMENTS	LEVEL DATA:	K:\36182\36182\LT0PO
08/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	DATUM:	AHD
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	PROJECT No.:	36182/3B
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	DRAWN:	C.M.B DATE: MAY 2013
			DESIGNED:	Z.W.L DATE: MAY 2013
			AUTHORISED:	A.S.C DATE: MAY 2013



HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R06
INTERSECTION DETAILS & LIP OF KERB PROFILES		REVISION N
		SHEET 6 OF 27

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

WARNING
OVERHEAD ELECTRICITY

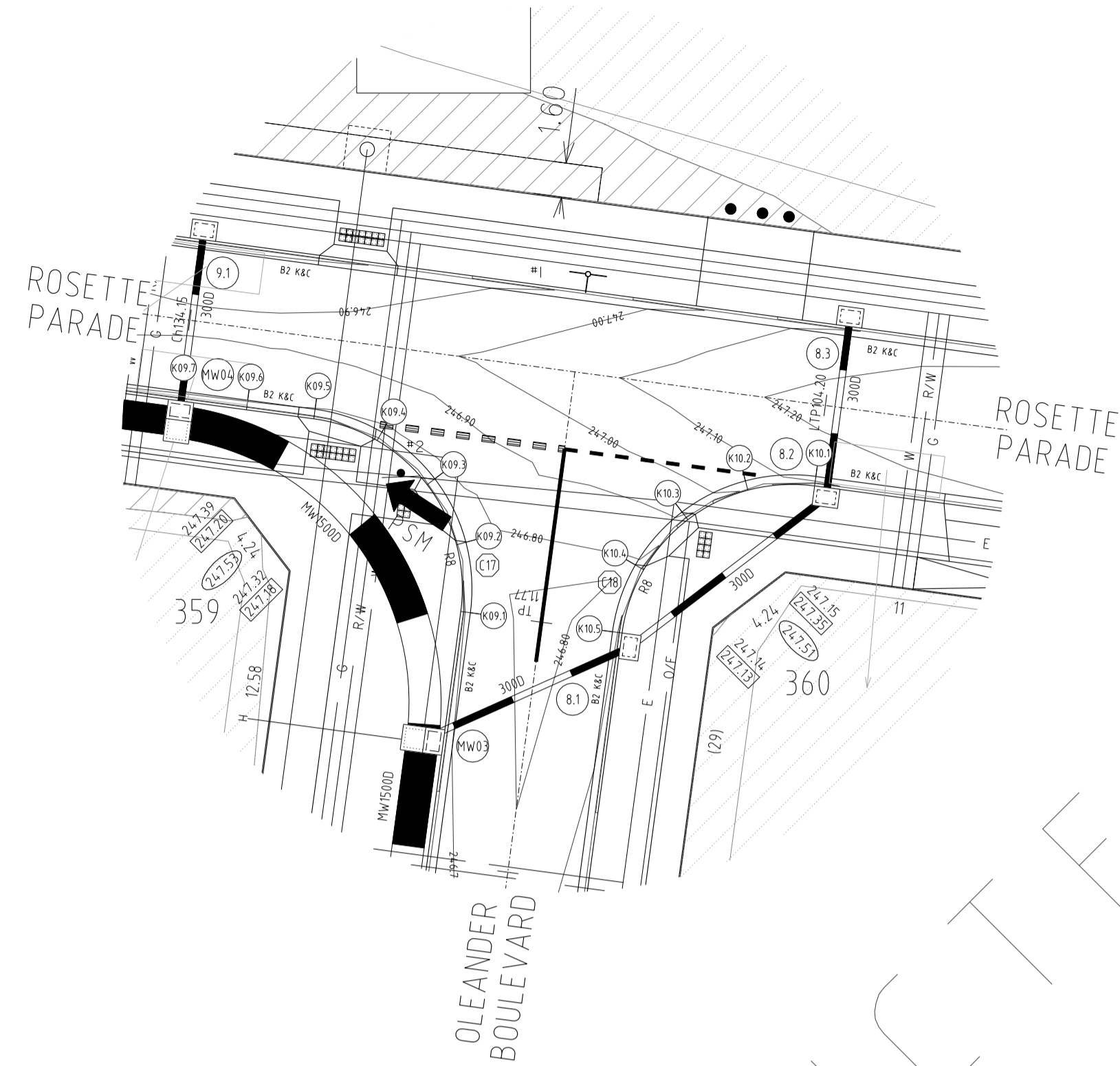


Major Cables exist in the area, if your activities are within Telstra encroachment distances (see duty of care) contact 03 9632 9961 at least 2 business days before starting activity.

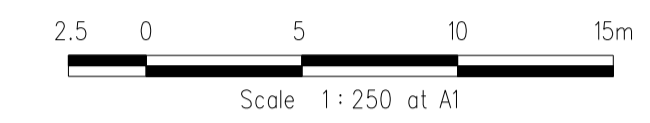
WARNING

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

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



INTERSECTION DETAILS



KERB RETURN K09

POINT NO	EASTING	NORTHING	RL
K09.1	3871.628	9707.919	246.732
K09.2	3871.42	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

	246.707	246.732	246.749	246.757	246.766	246.782	246.783	246.798	246.803	246.807	246.813	246.818
DESIGN CENTRELINE												
EXISTING SURFACE		247.23	247.28	247.31	247.34	247.38	247.39	247.42	247.44	247.45	247.48	247.51
CHAINAGES	-5.00	0.00	3.32	4.91	6.64	9.81	9.96	13.27	14.72	16.45	19.62	24.62

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

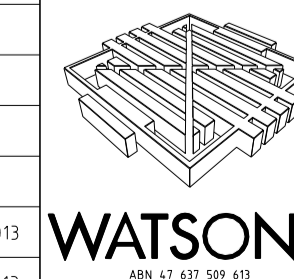
NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

	247.186	247.129	247.058	246.920	246.788	246.732	246.707
DESIGN CENTRELINE							
EXISTING SURFACE		247.20	247.23	247.23	247.21	247.18	247.17
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\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\r07.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 93118 Mornington

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

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

PLAN NUMBER
36182/3B
R07

INTERSECTION DETAILS
& LIP OF KERB PROFILES

REVISION
N
SHEET 7 OF 27

**GRAND BOULEVARD
LONGITUDINAL SECTION**

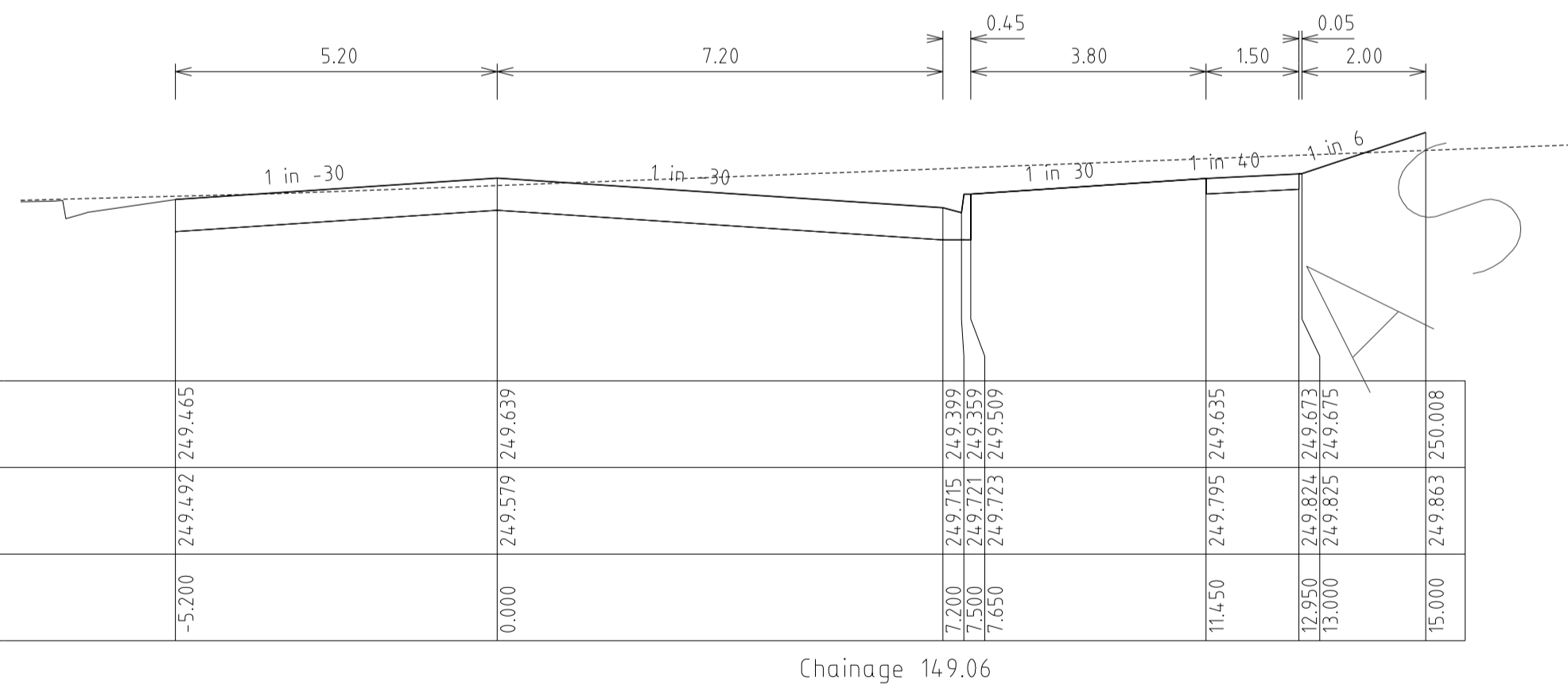
HORIZ 1 0 10 20 30m
VERT 0 5 0 1 2 3m

Horiz Scale 1 500 at A1
Vert Scale 1 50 at A1

Horizontal Geometry
Vertical Grade
VC length

Datum RL 243

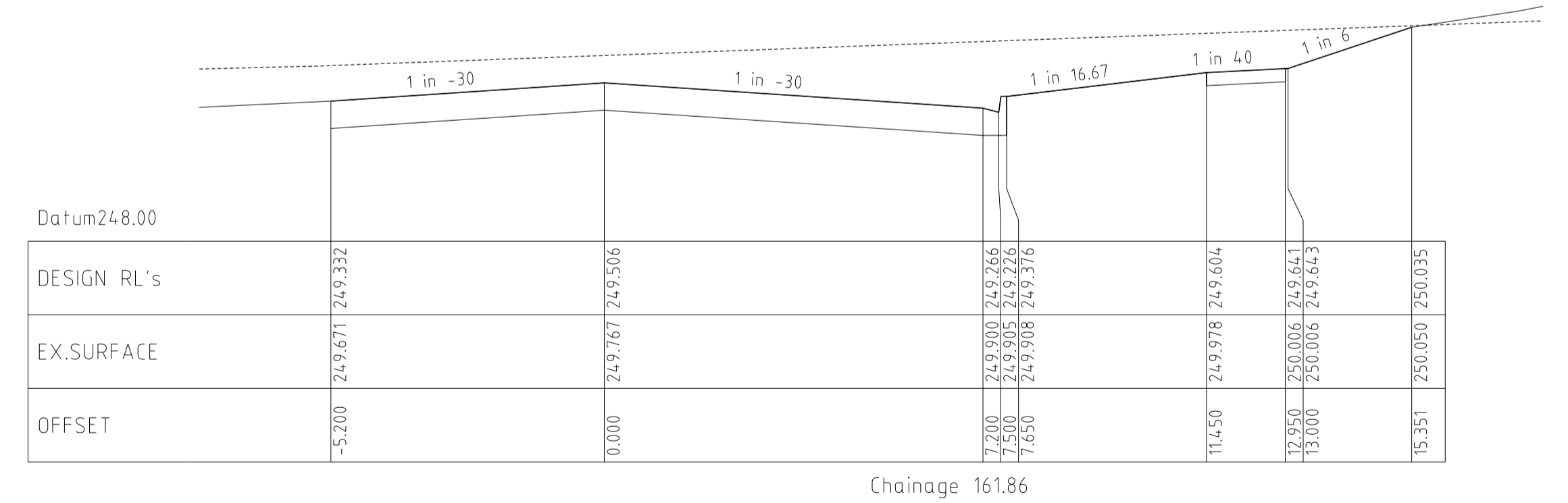
CHAINAGES	DESIGN CENTRELINE	EXISTING SURFACE
40.00	248.407	248.40
16.25	248.45	248.515
47.70	248.46	248.540
48.67	248.46	248.556
49.70	248.47	248.574
51.80	248.49	248.610
52.40	248.49	248.621
53.43	248.50	248.638
54.40	248.51	248.655
55.85	248.52	248.680
60.00	248.55	248.751
62.88	248.58	248.801
64.11	248.59	248.822
80.00	248.83	249.095
87.71	248.97	249.278
88.74	248.98	249.246
89.71	249.00	249.263
91.16	249.03	249.288
98.13	249.11	249.407
100.00	249.13	249.440
109.15	249.20	249.597
110.60	249.21	249.622
111.57	249.22	249.639
112.60	249.22	249.656
113.20	249.23	249.667
116.30	249.25	249.720
116.95	249.26	249.731
117.33	249.26	249.738
118.30	249.27	249.753
119.75	249.28	249.775
120.00	249.28	249.778
130.60	249.38	249.849
131.95	249.40	249.848
136.80	249.45	249.824
137.83	249.46	249.816
138.80	249.47	249.806
140.00	249.48	249.793
140.25	249.48	249.790
140.96	249.49	249.781
142.43	249.51	249.761
142.39	249.52	249.746
144.41	249.53	249.728
146.95	249.56	249.680
147.23	249.56	249.674
149.06	249.58	249.639
160.00	249.74	249.572
161.86	249.77	249.506
162.23	249.77	249.505
163.81	249.80	249.503
165.31	249.82	249.505
168.01	249.86	249.514
171.45	249.91	249.540
171.46	249.91	249.540
177.23	249.99	249.615
177.32	249.99	249.617
179.06	250.01	249.646
180.00	250.02	249.651
187.06	250.10	249.768
200.00	250.27	249.935
202.32	250.30	249.961
220.00	250.50	250.116
227.32	250.59	250.159
240.00	250.71	250.223
260.00	250.80	250.323
280.00	250.90	250.423
300.00	250.91	250.523



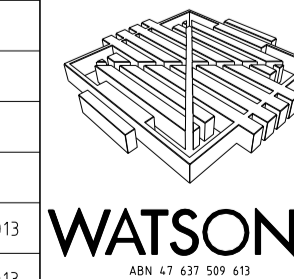
**GRAND BOULEVARD
CROSS SECTIONS**

HORIZ 1 0 2 4 6m
VERT 0 5 0 1 2 3m

Horiz Scale 1 100 at A1
Vert Scale 1 50 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\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\r08.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



MORNINGTON
15 Main Street,
P.O. Box 111 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

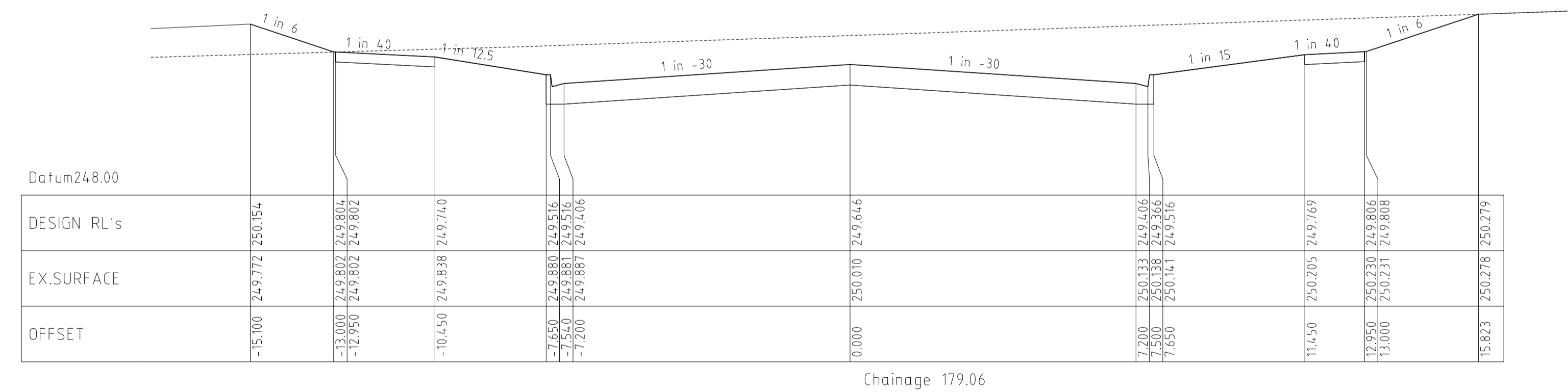
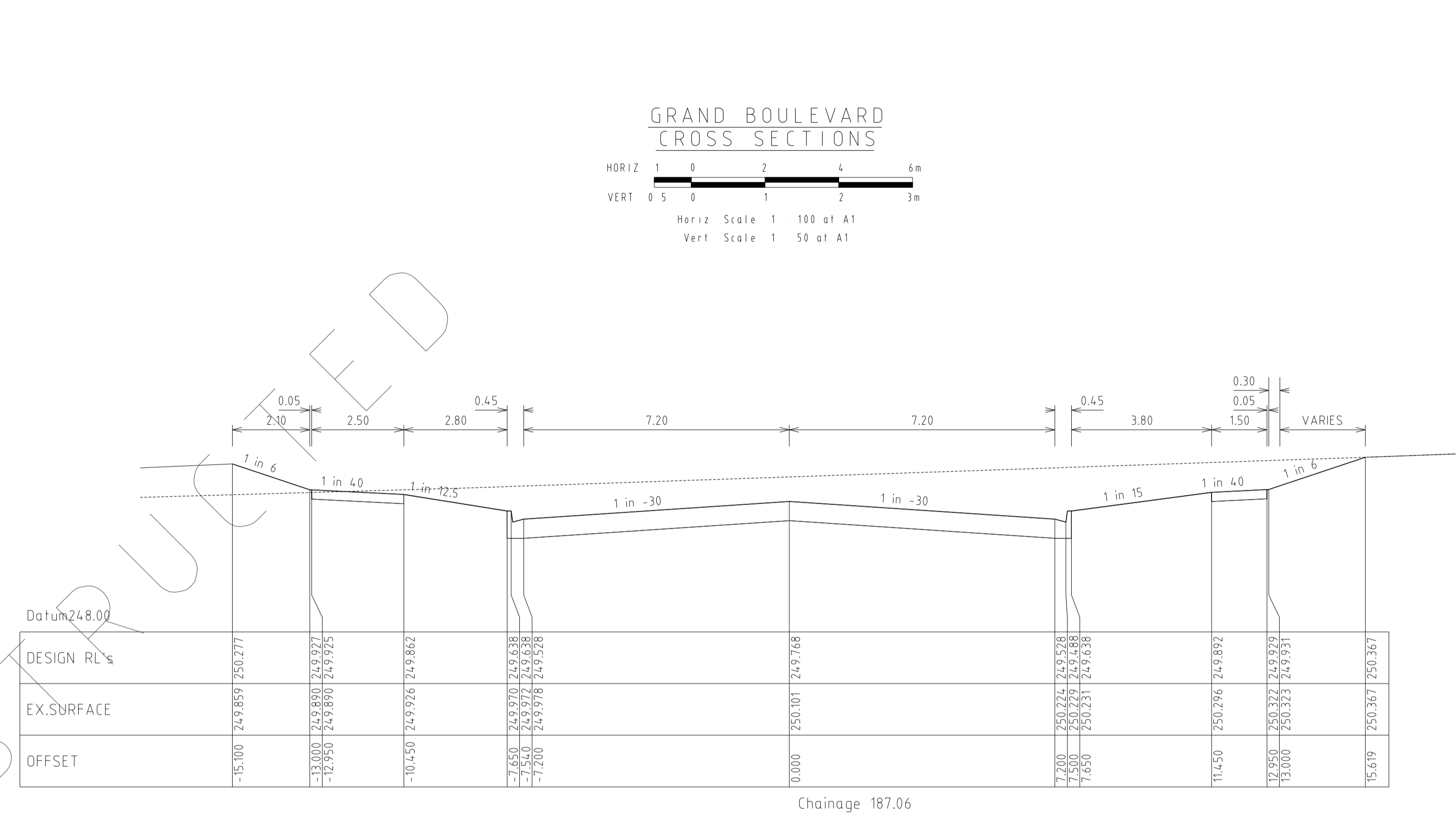
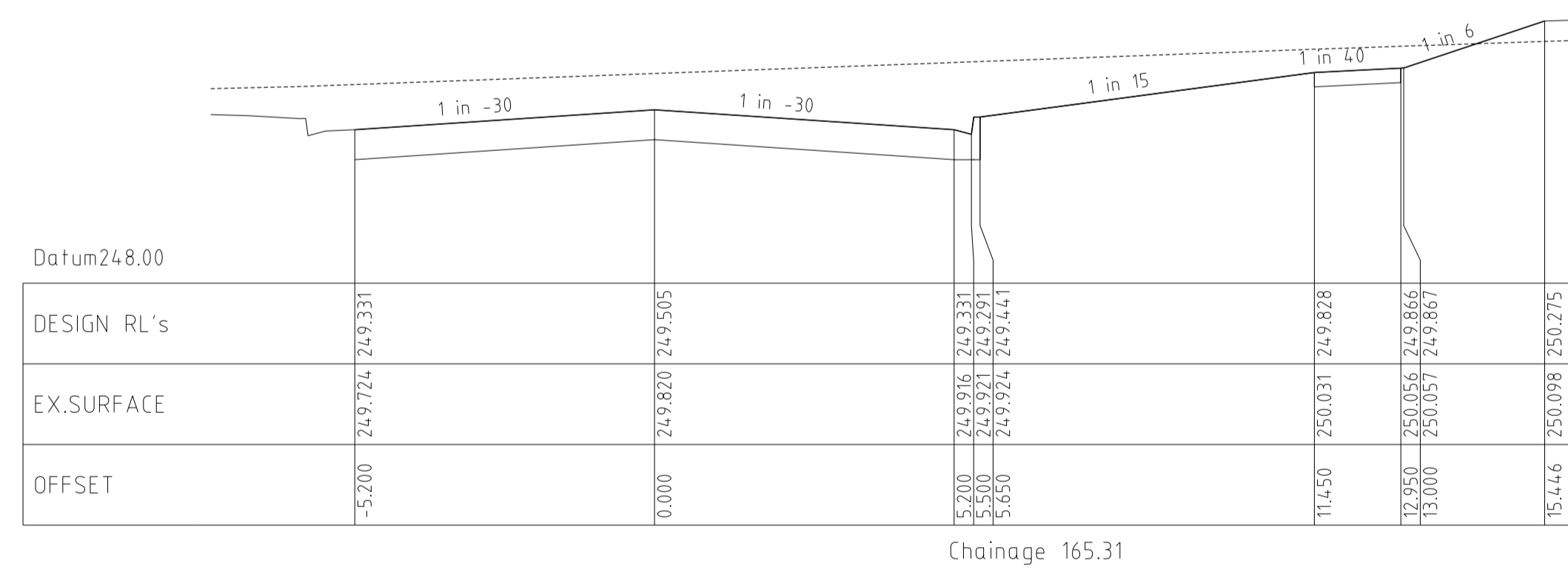
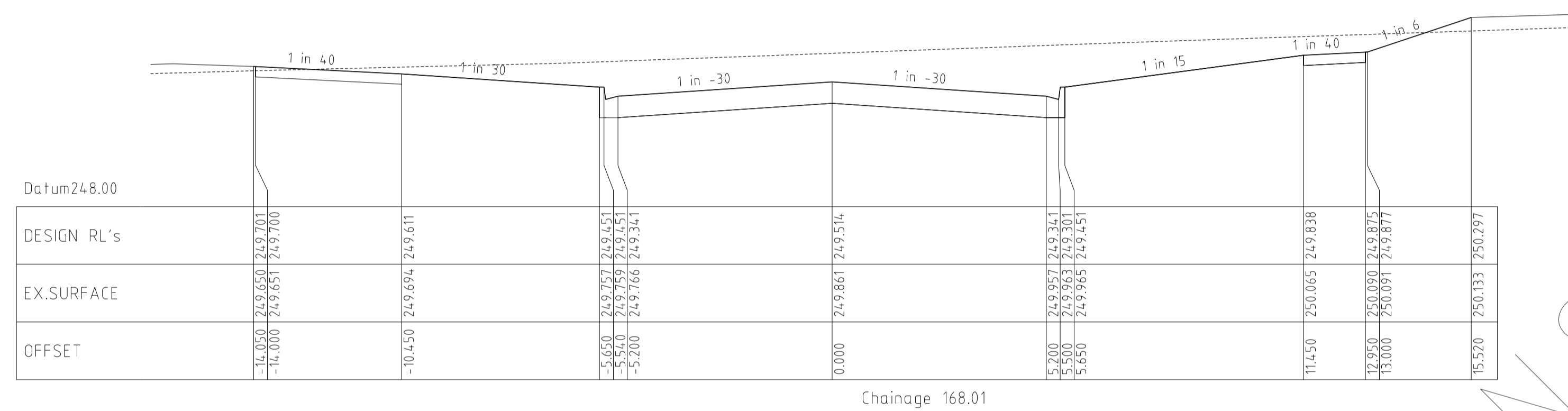
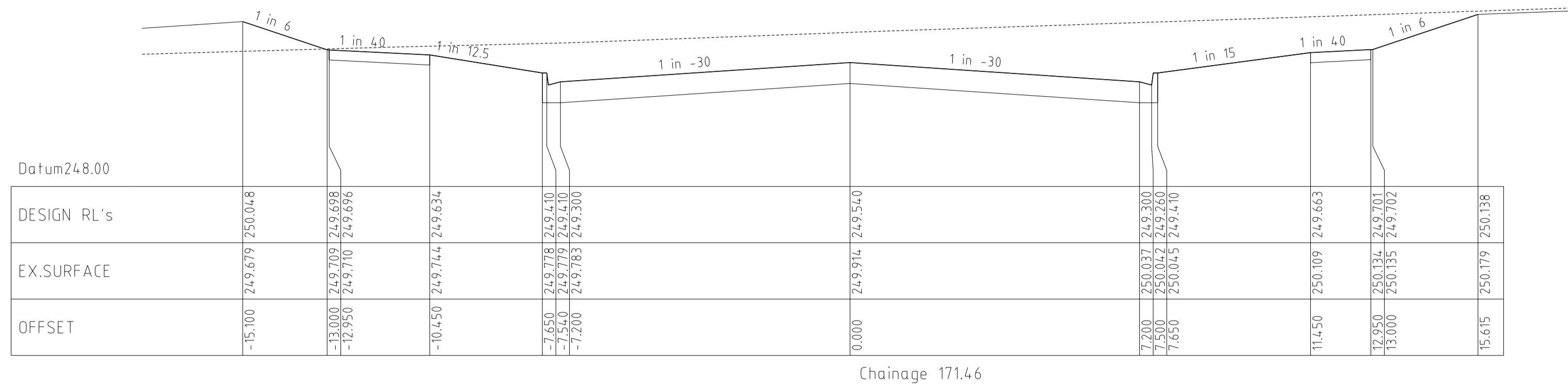
MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9697 8000
Fax: (03) 9697 8099

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

PLAN NUMBER
36182/3B
R08

GRAND BOULEVARD
LONGITUDINAL & CROSS SECTIONS

REVISION N
SHEET 8 OF 27



GRAND BOULEVARD
CROSS SECTIONS

HORIZ 1 0 2 4 6m
VERT 0 5 0 1 2 3m

Horiz Scale 1 100 at A1
Vert Scale 1 50 at A1

DRAFT

AS COMS

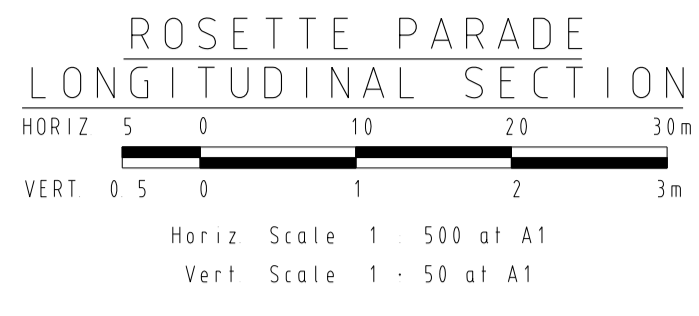
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	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\r09.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

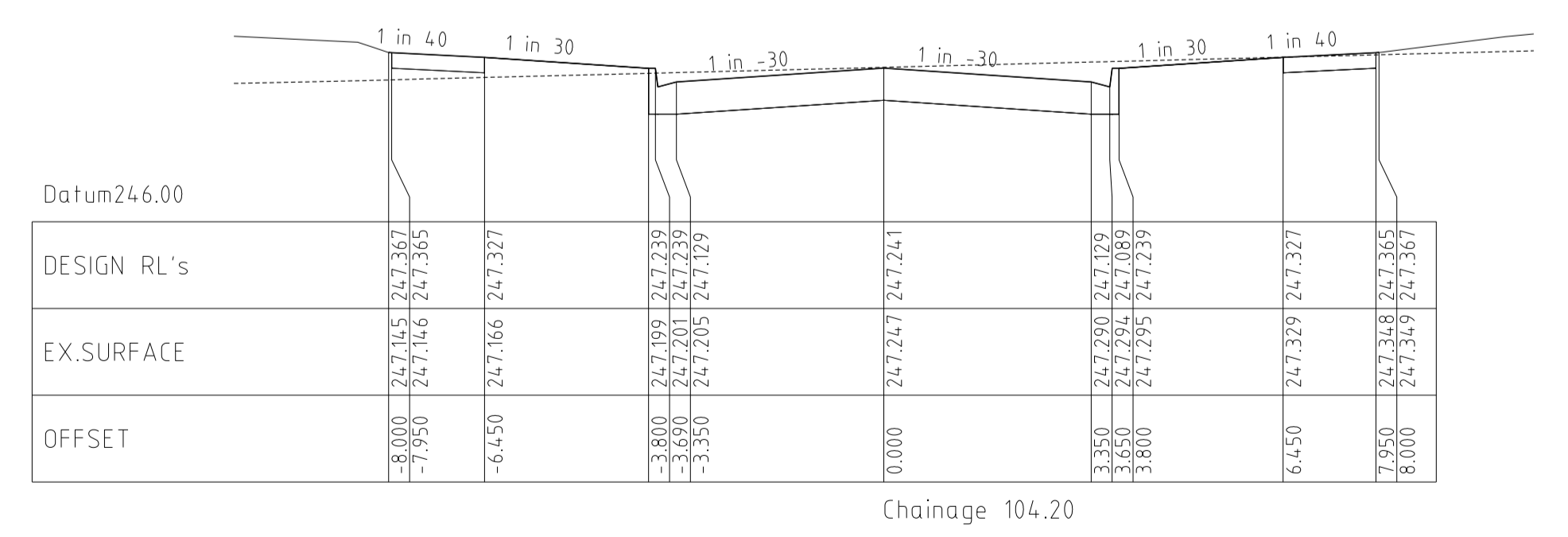
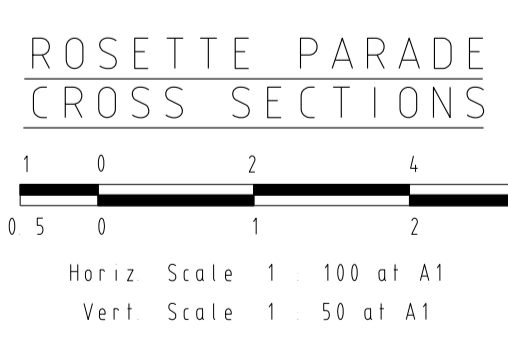
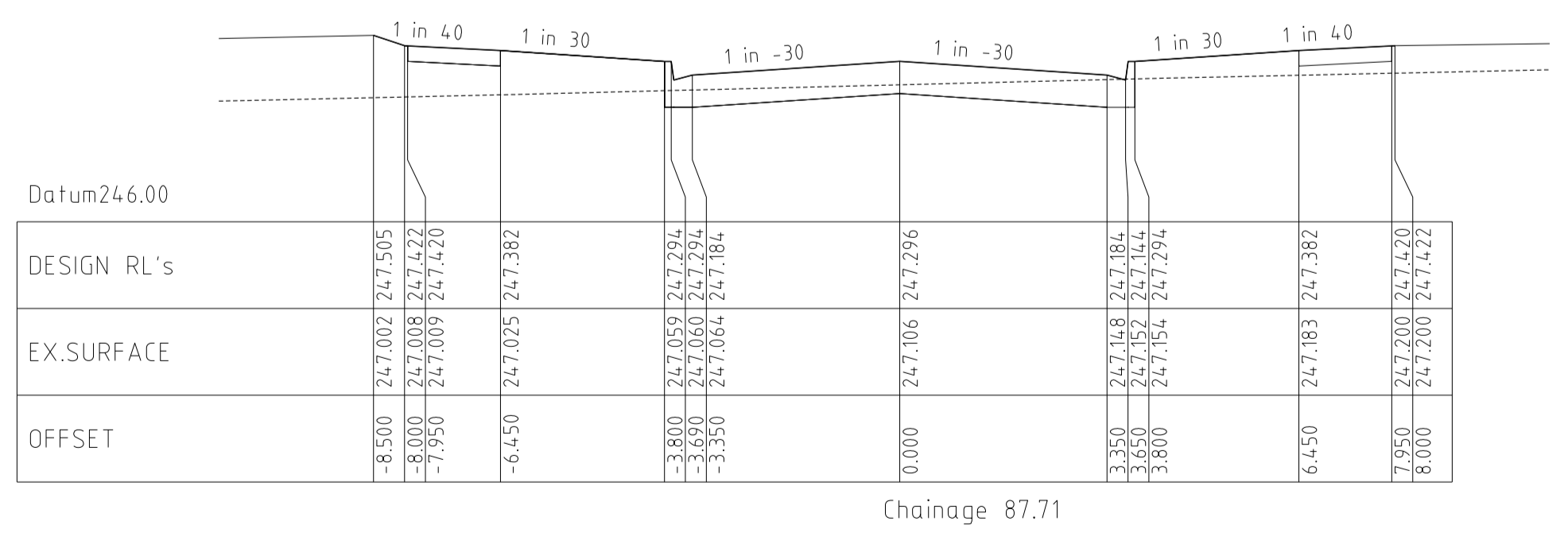
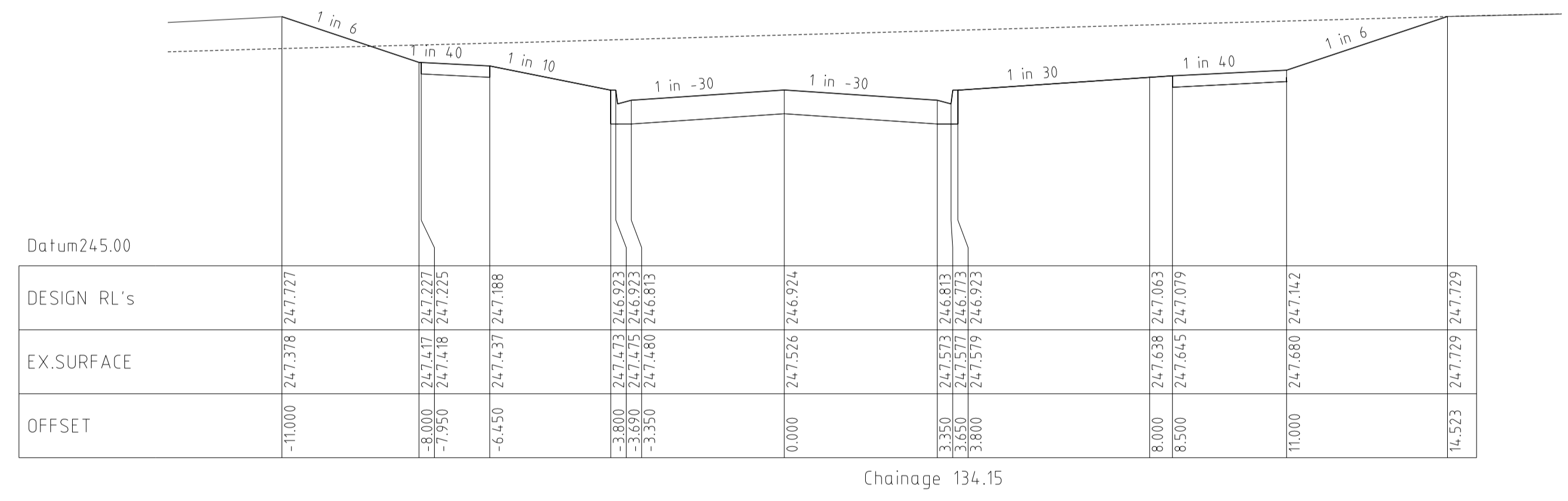
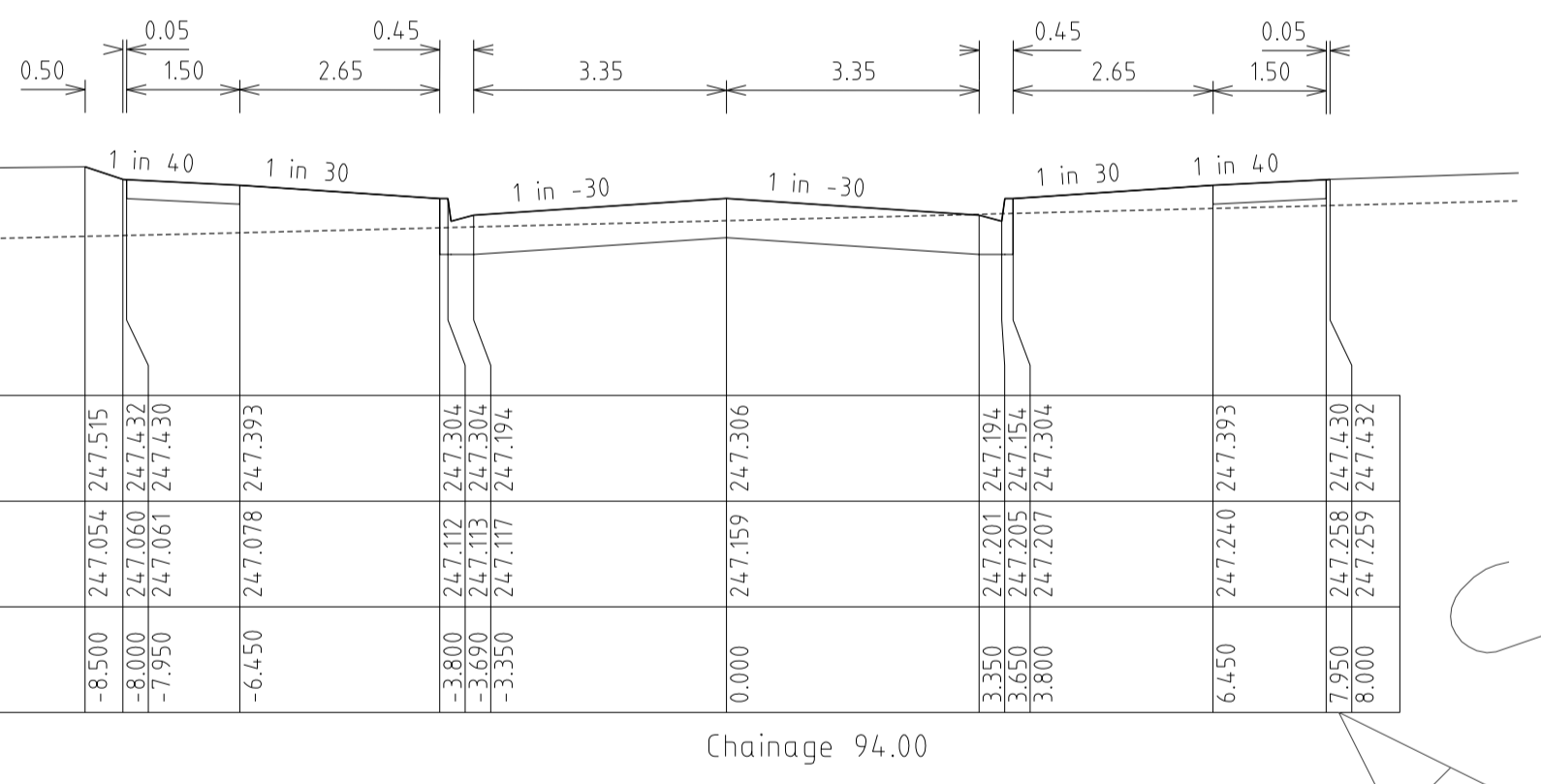
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R09
GRAND BOULEVARD CROSS SECTIONS		REVISION N
		SHEET 9 OF 27



Horizontal Geometry
Vertical Grade
VC length

Datum RL.242

CHAINAGES	DESIGN CENTRELINE	EXISTING SURFACE
0.00	246.360	246.36
8.06	246.448	246.40
16.06	246.535	246.45
20.00	246.578	246.47
26.56	246.649	246.50
28.20	246.667	246.51
40.00	246.796	246.65
51.80	246.924	246.79
53.56	246.943	246.81
60.00	247.014	246.86
64.11	247.058	246.90
80.00	247.231	247.03
81.36	247.246	247.05
87.71	247.296	247.11
92.54	247.307	247.15
94.00	247.306	247.16
96.36	247.300	247.18
100.00	247.280	247.21
104.20	247.241	247.25
111.36	247.135	247.32
111.38	247.134	247.32
120.00	247.40	247.40
120.43	247.401	247.40
133.24	246.924	247.52
134.15	246.924	247.53
135.43	246.926	247.54
140.00	246.948	247.58
142.41	246.969	247.60
144.80	246.985	247.62
144.21	246.988	247.62
145.83	247.008	247.64
150.43	247.081	247.70
150.55	247.083	247.70
160.00	247.251	247.85
163.06	247.303	247.90
164.86	247.334	247.92
165.55	247.345	247.93
165.86	247.350	247.93
168.06	247.387	247.96
173.81	247.480	248.02
179.56	247.569	248.09
180.00	247.576	248.10
180.55	247.584	248.10
185.56	247.660	248.16
191.56	247.751	248.23
197.31	247.838	248.30
200.00	247.879	248.33
203.06	247.925	248.37
208.26	248.004	248.44
220.00	248.182	248.60
232.86	248.377	248.78
240.00	248.485	248.90
242.06	248.516	248.93
250.34	248.641	249.06
254.56	248.705	249.12
260.00	248.785	249.20
265.34	248.861	249.29
267.06	248.885	249.31
280.00	249.062	249.48
280.34	249.066	249.48
280.41	249.067	249.49
294.06	249.68	249.68



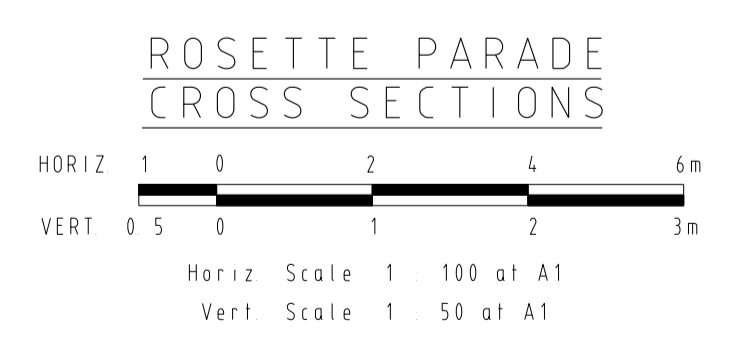
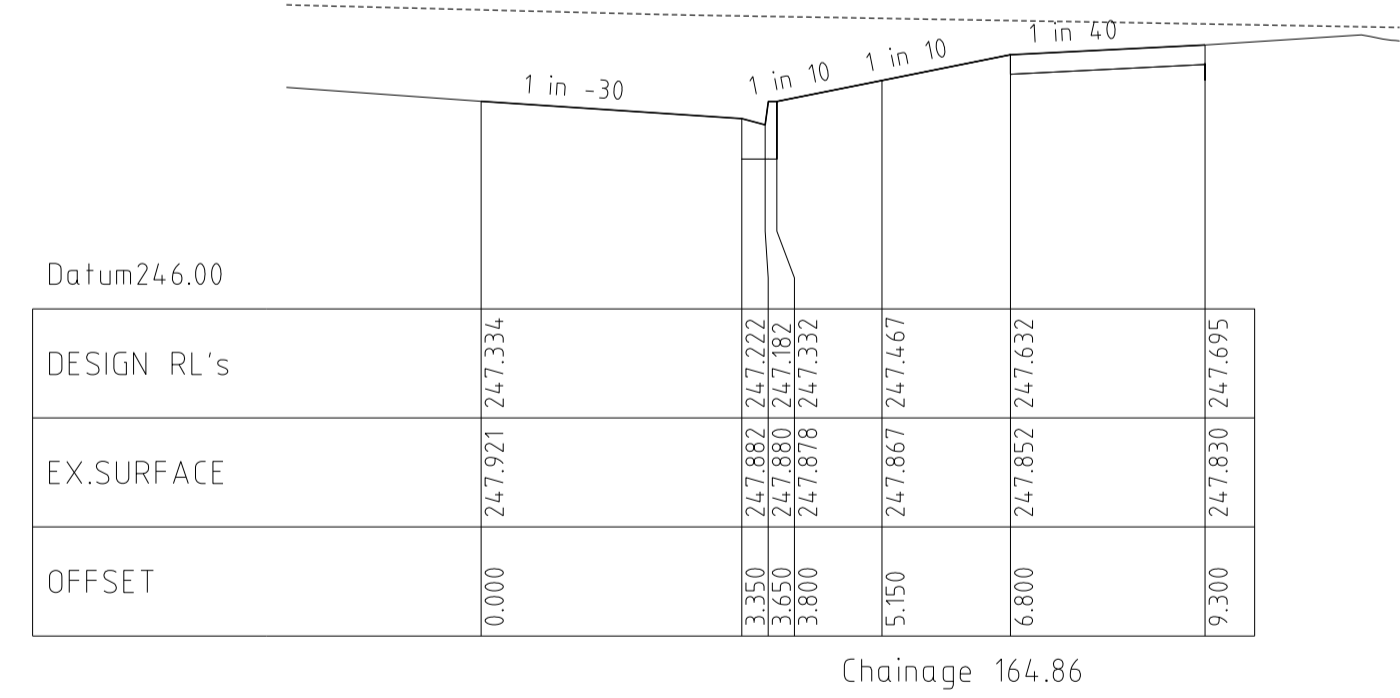
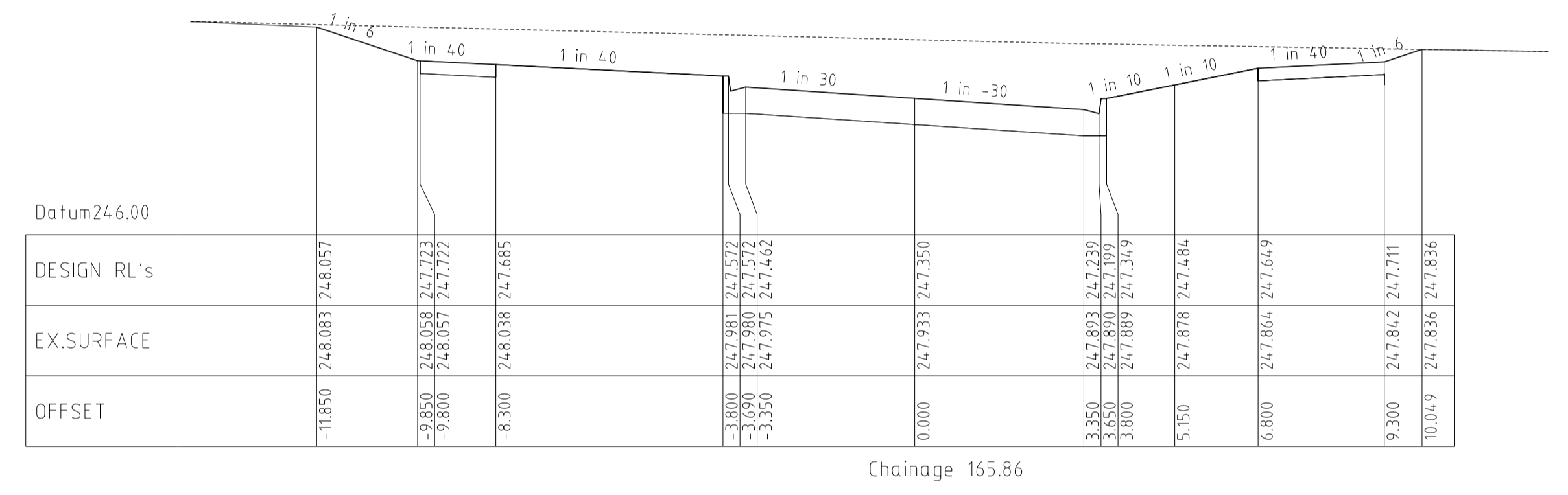
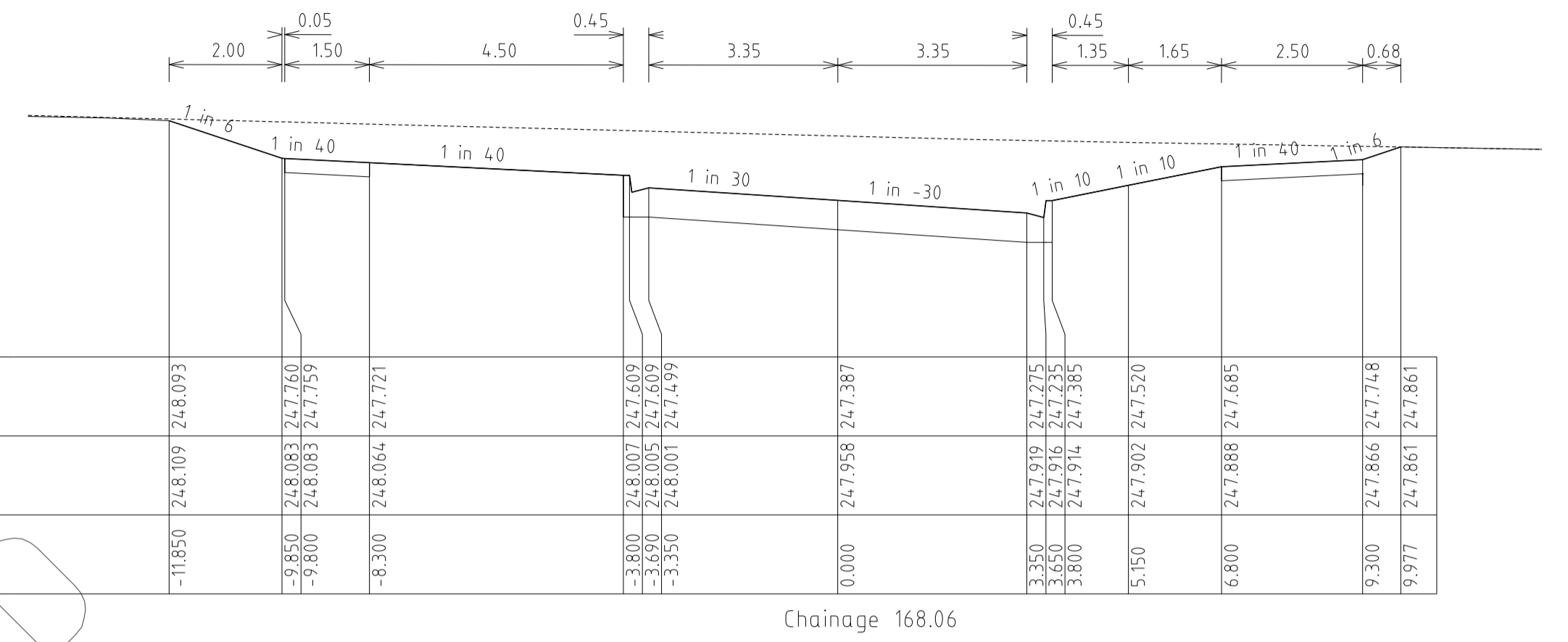
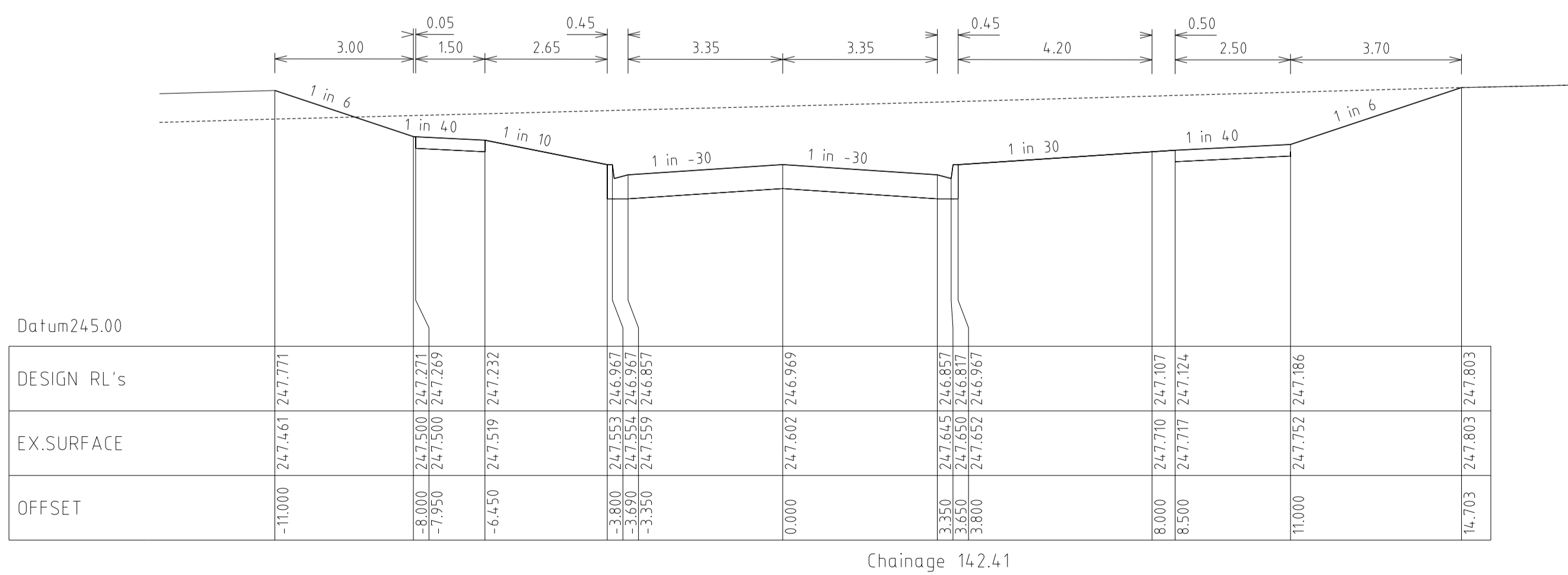
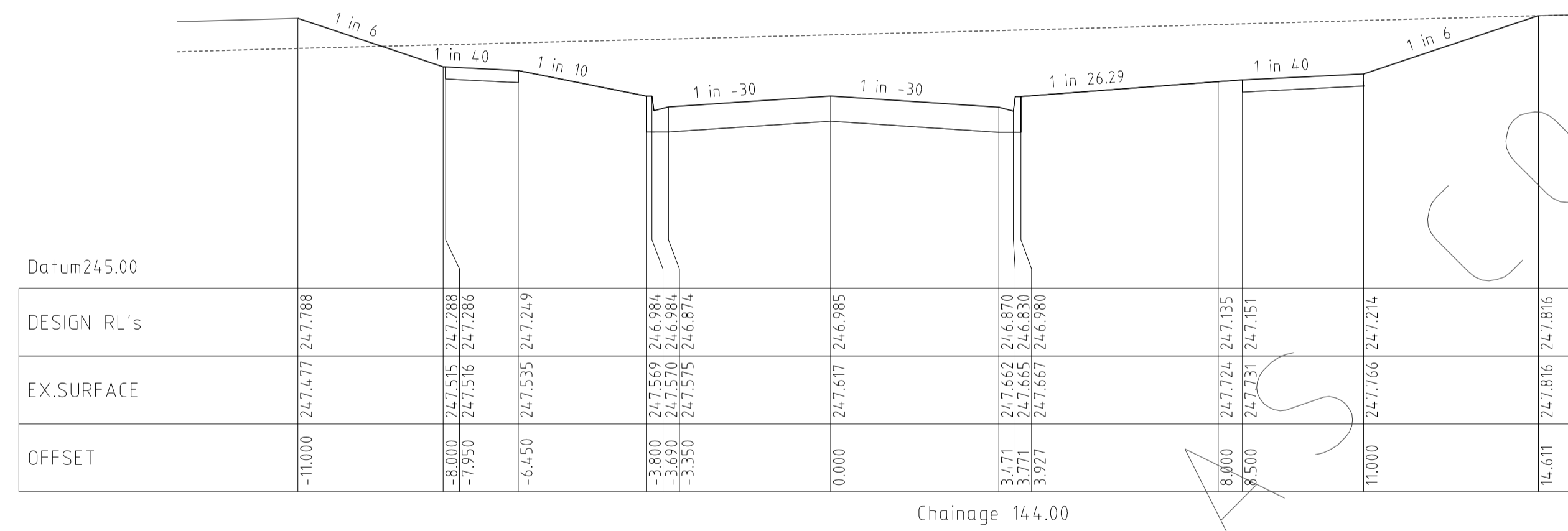
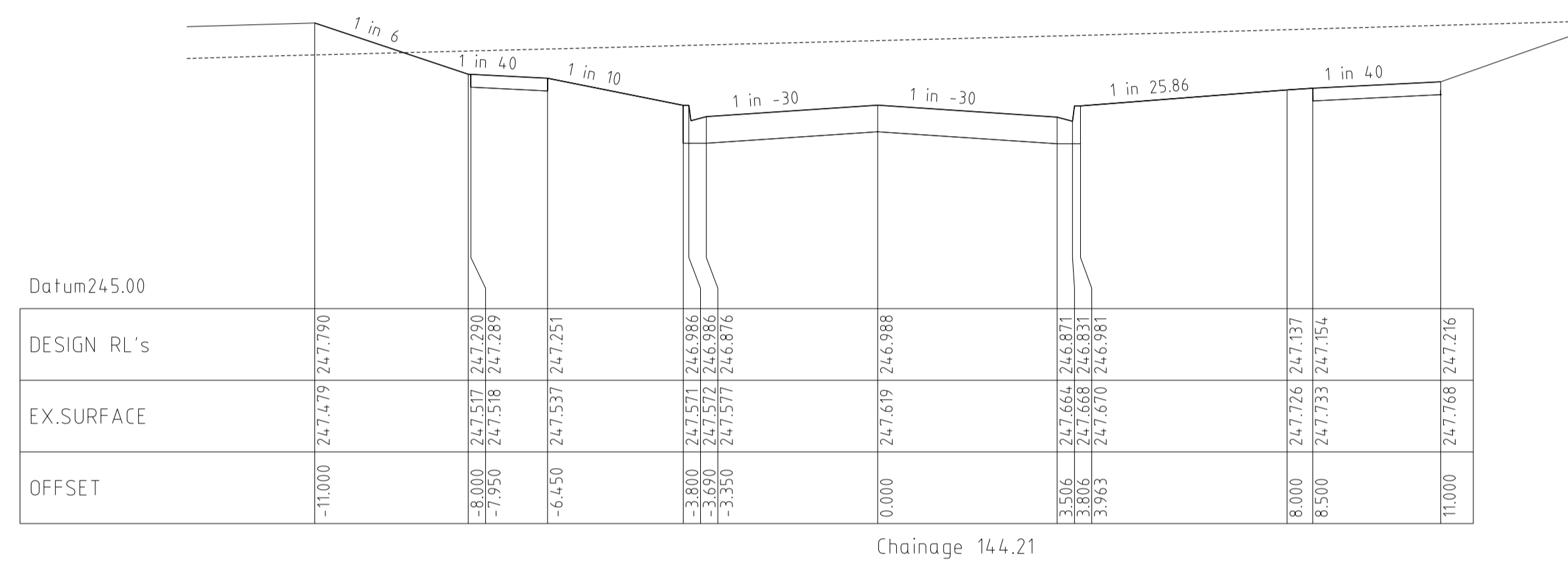
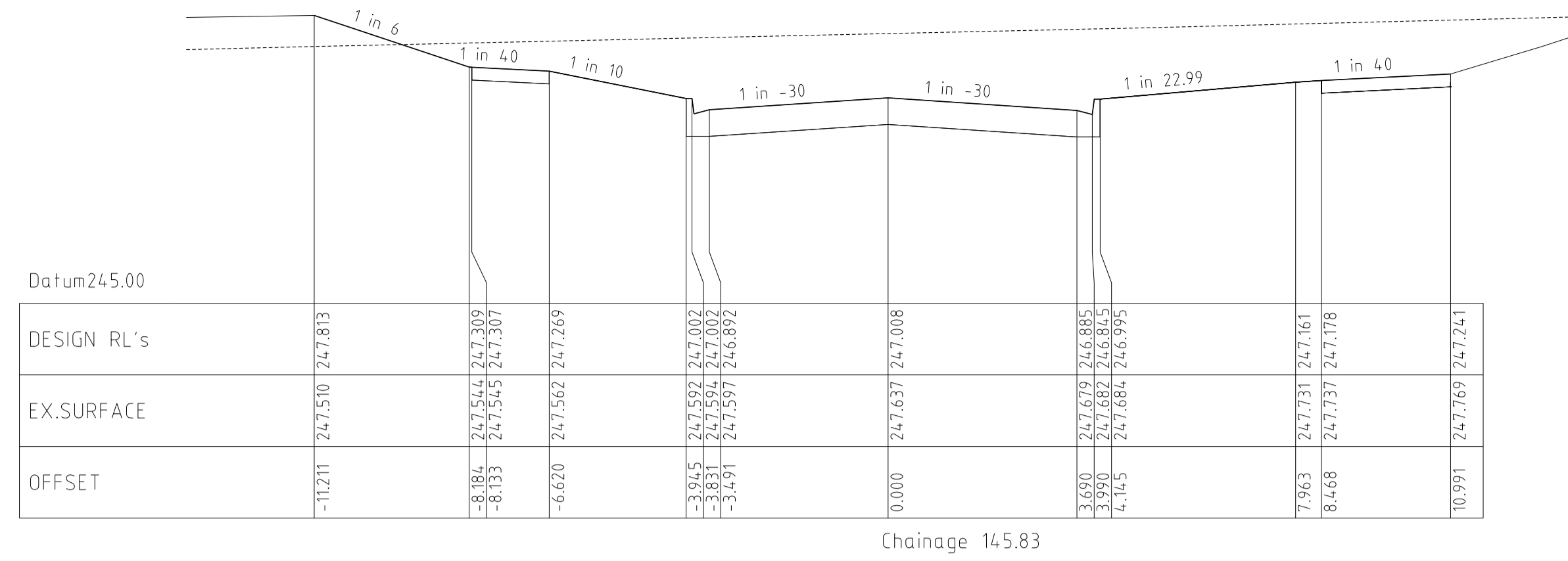
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	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\r10.dgn		AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
5 Main Street,
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 93118 Mornington

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9497 8600
Fax: (03) 9497 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R10
ROSETTE PARADE LONGITUDINAL & CROSS SECTIONS		REVISION N
		SHEET 10 OF 27



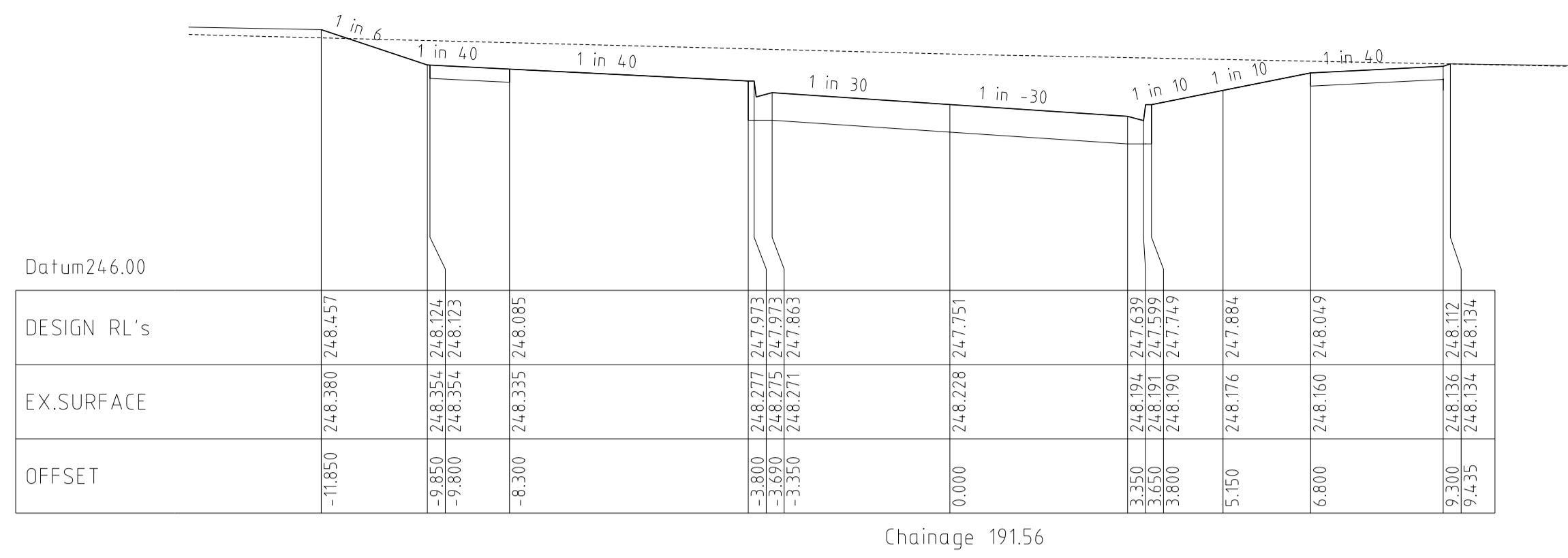
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	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\11.dgn		AUTHORISED:	A.S.C DATE: MAY 2013



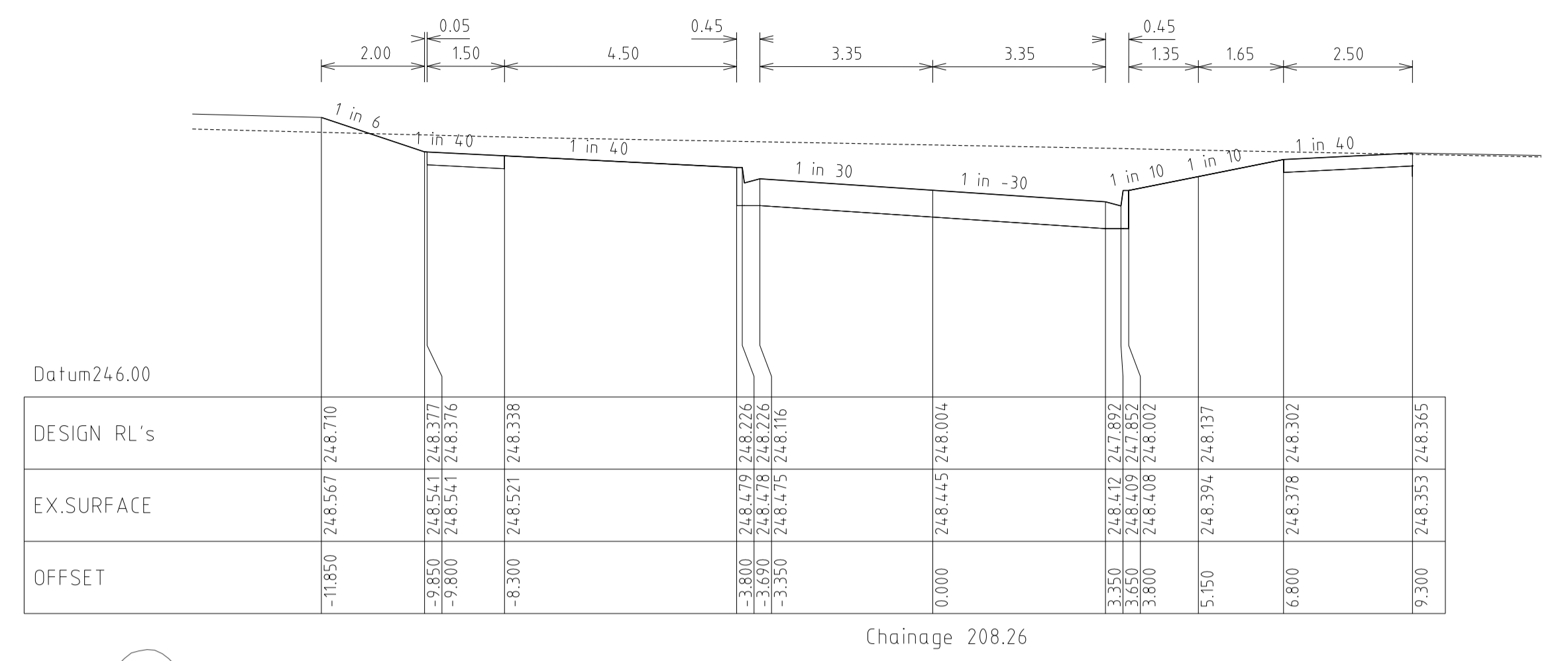
MORNINGTON
5 Main Street
P.O. Box 171 3911
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

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

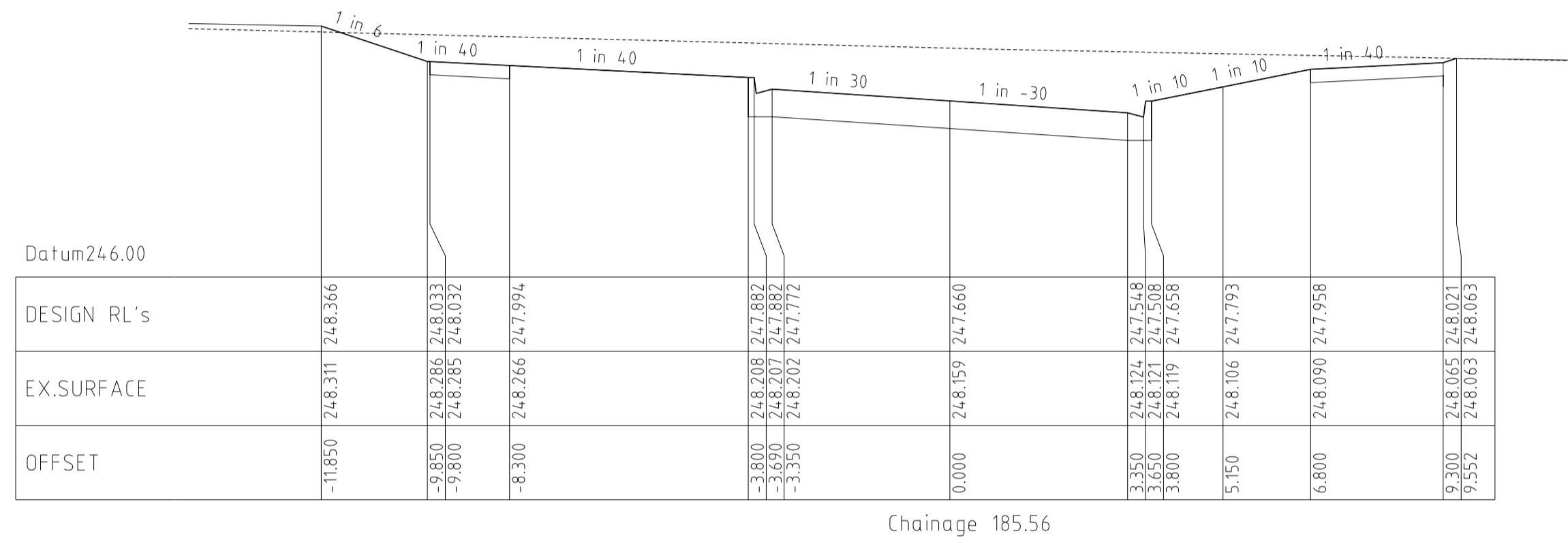
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R 11
ROSETTE PARADE CROSS SECTIONS		REVISION N
		SHEET 11 OF 27



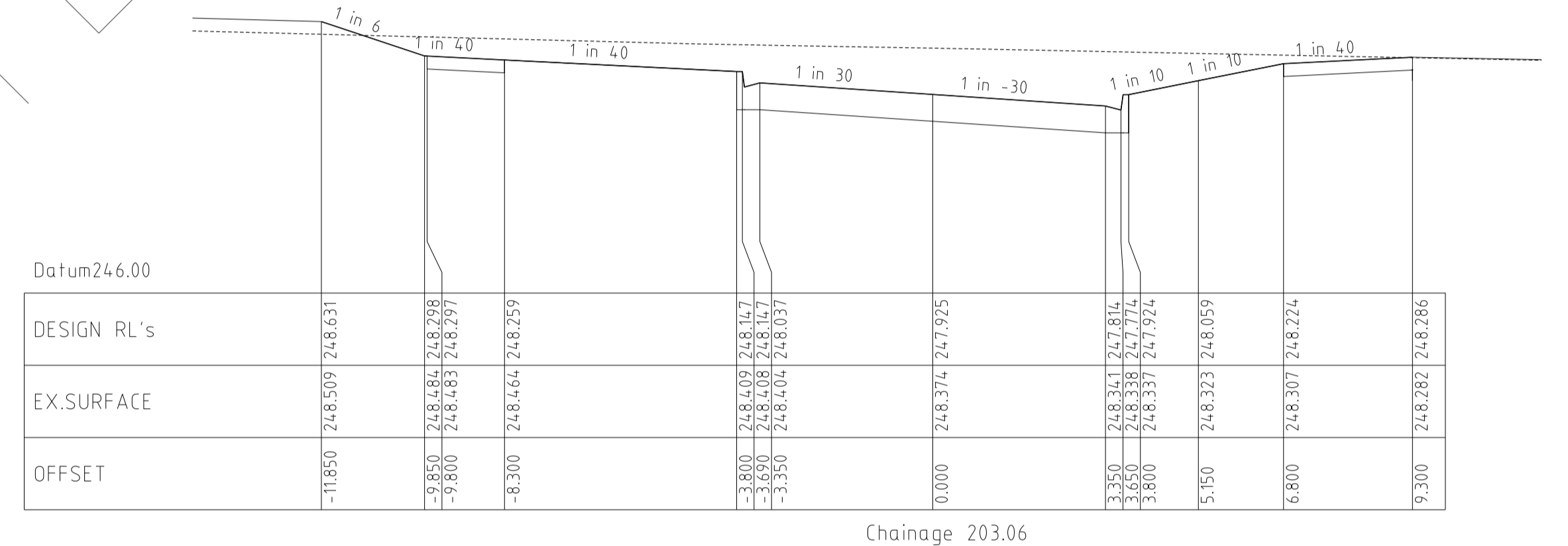
Chainage 191.56



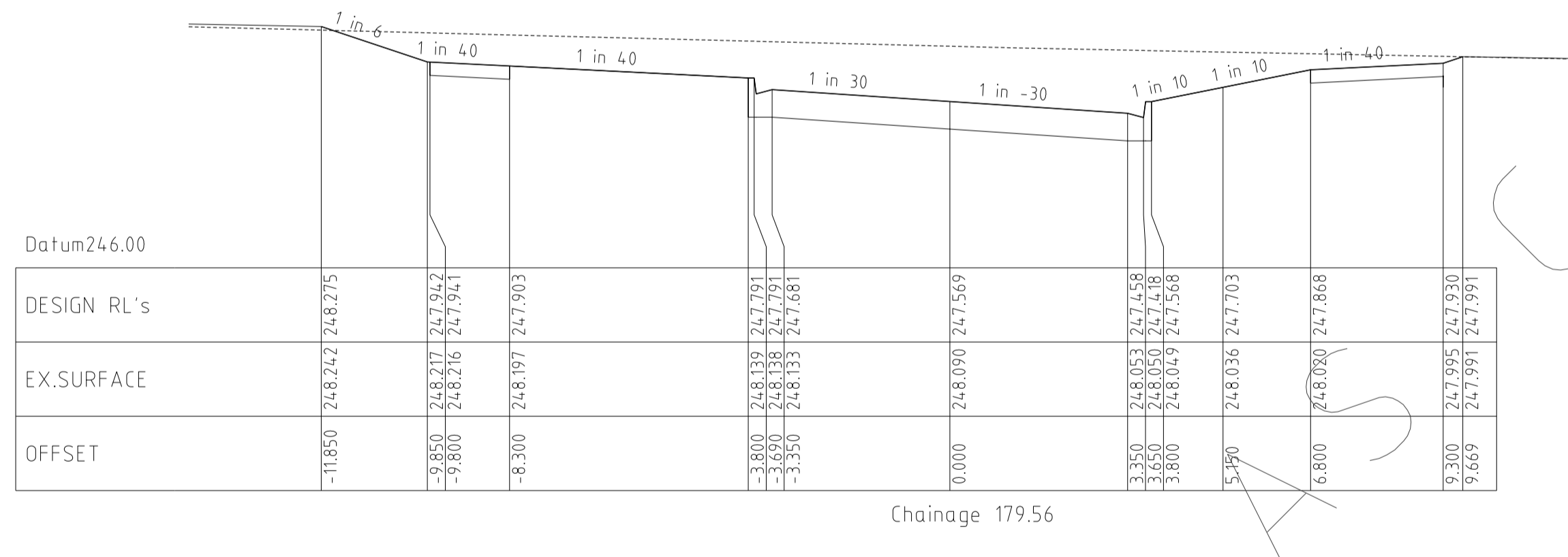
Chainage 208.26



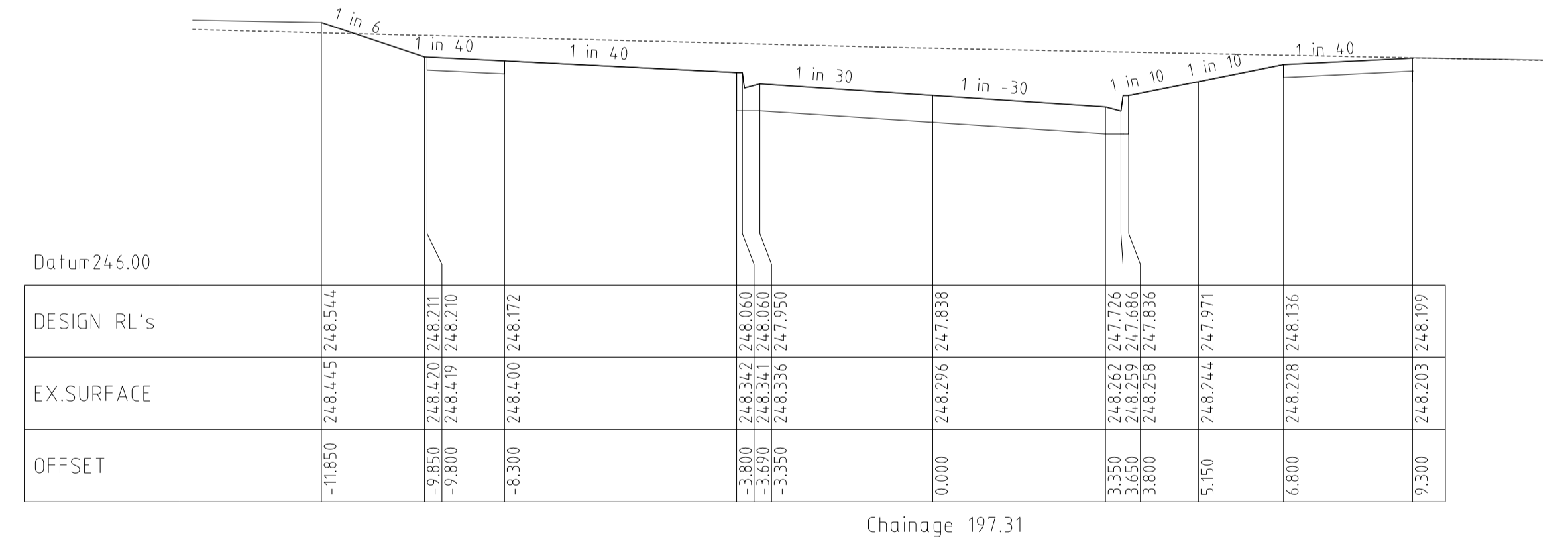
Chainage 185.56



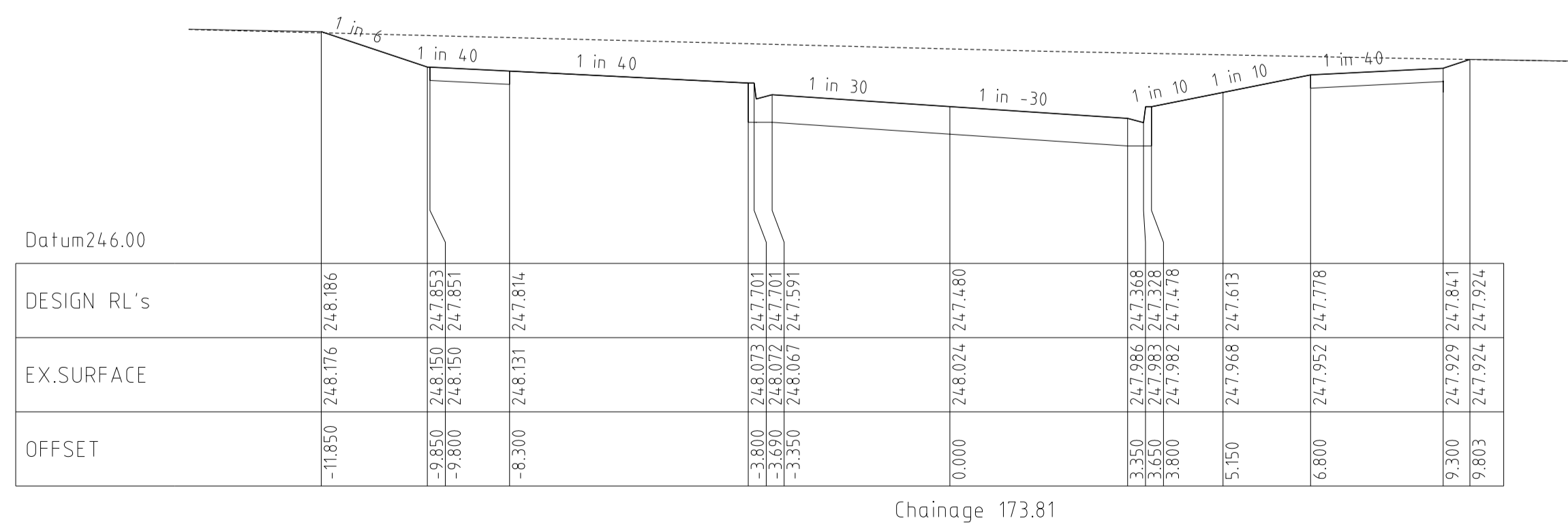
Chainage 203.06



Chainage 179.56



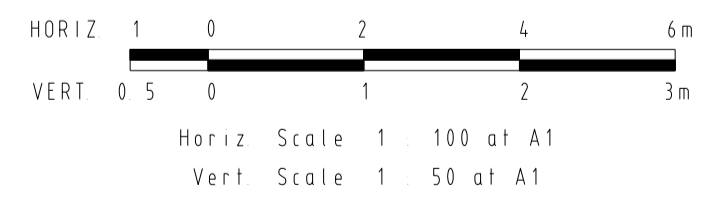
Chainage 197.31



Chainage 173.81

NOT TO BE CONSTRUCTED

ROSETTE PARADE CROSS SECTIONS

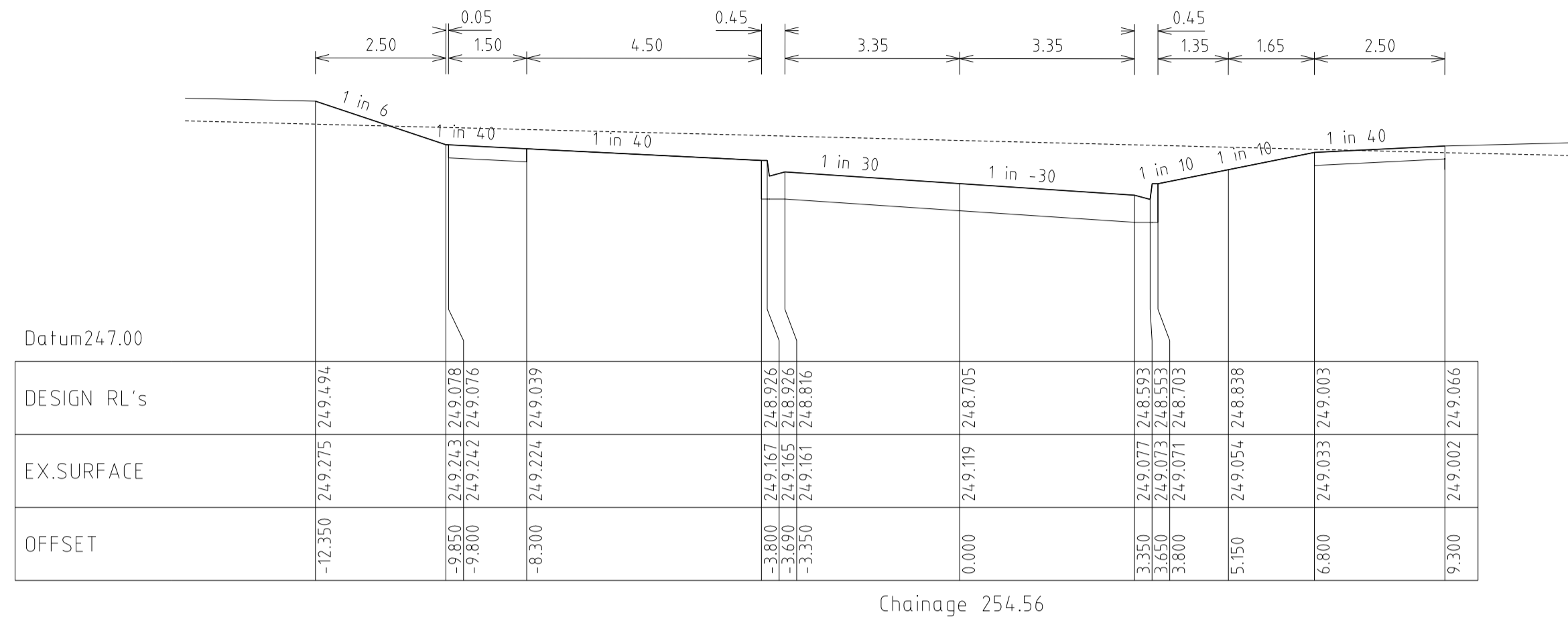


REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC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

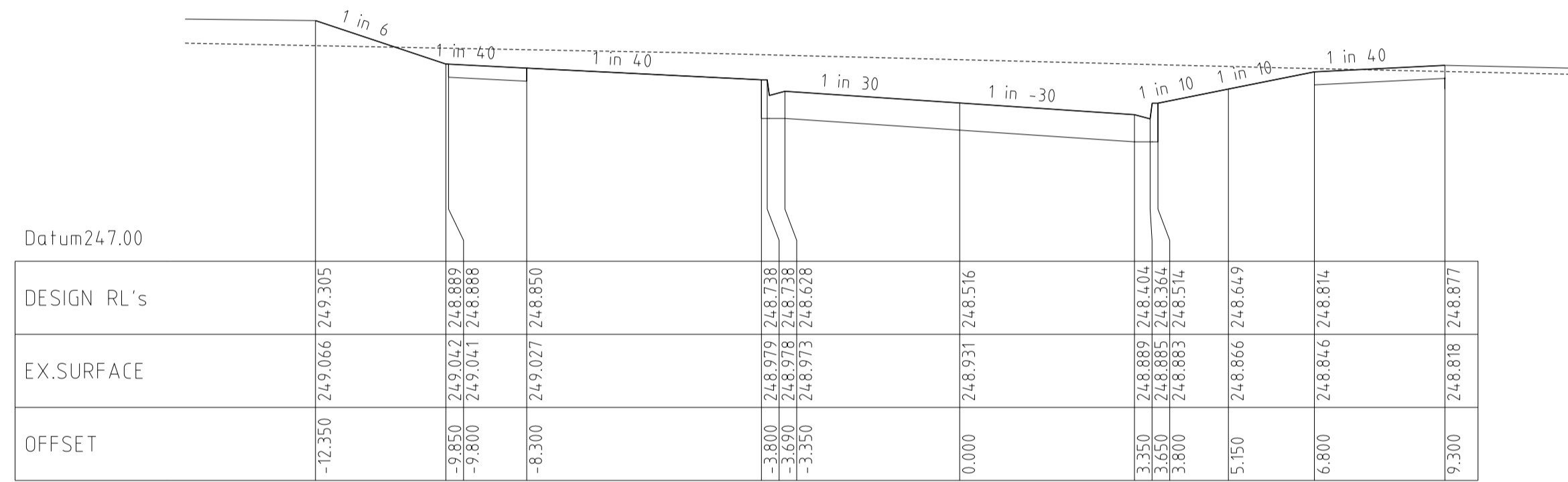


MORNINGTON
 5 Main Street
 P.O. Box 171 3911
 Phone (03) 5975 4444
 Fax (03) 5975 3916
 DX 93118 Mornington
 MELBOURNE
 The Melbourne, Suite 2
 258 St. Kilda Road
 Melbourne, 3002
 Phone (03) 9697 8000
 Fax (03) 9697 8099

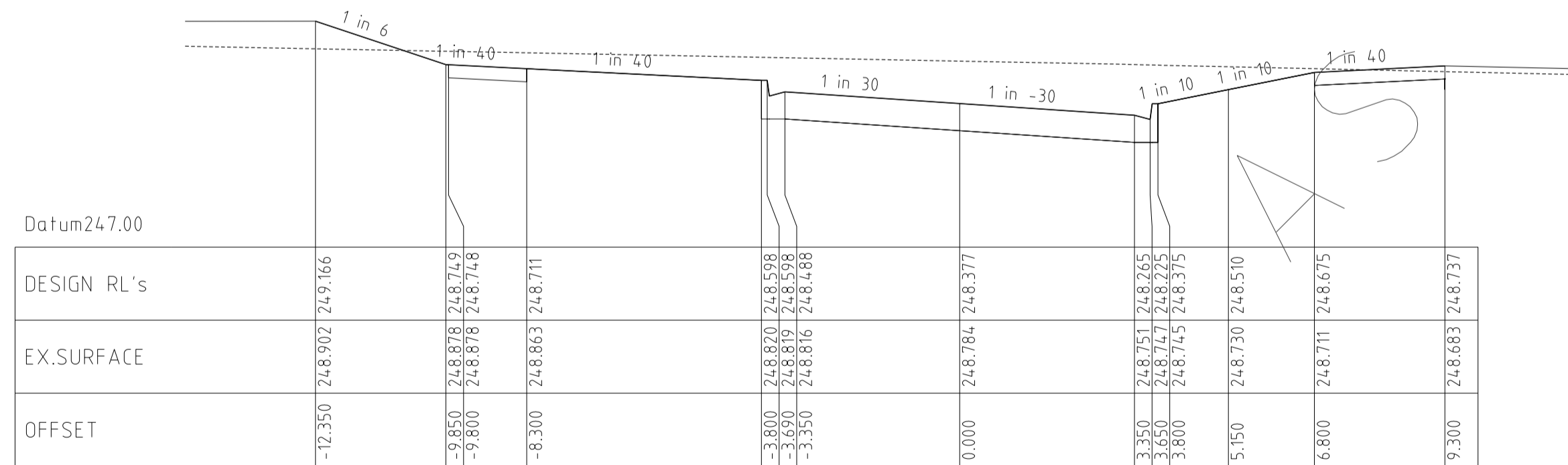
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R12
ROSETTE PARADE CROSS SECTIONS		REVISION N
		SHEET 12 OF 27



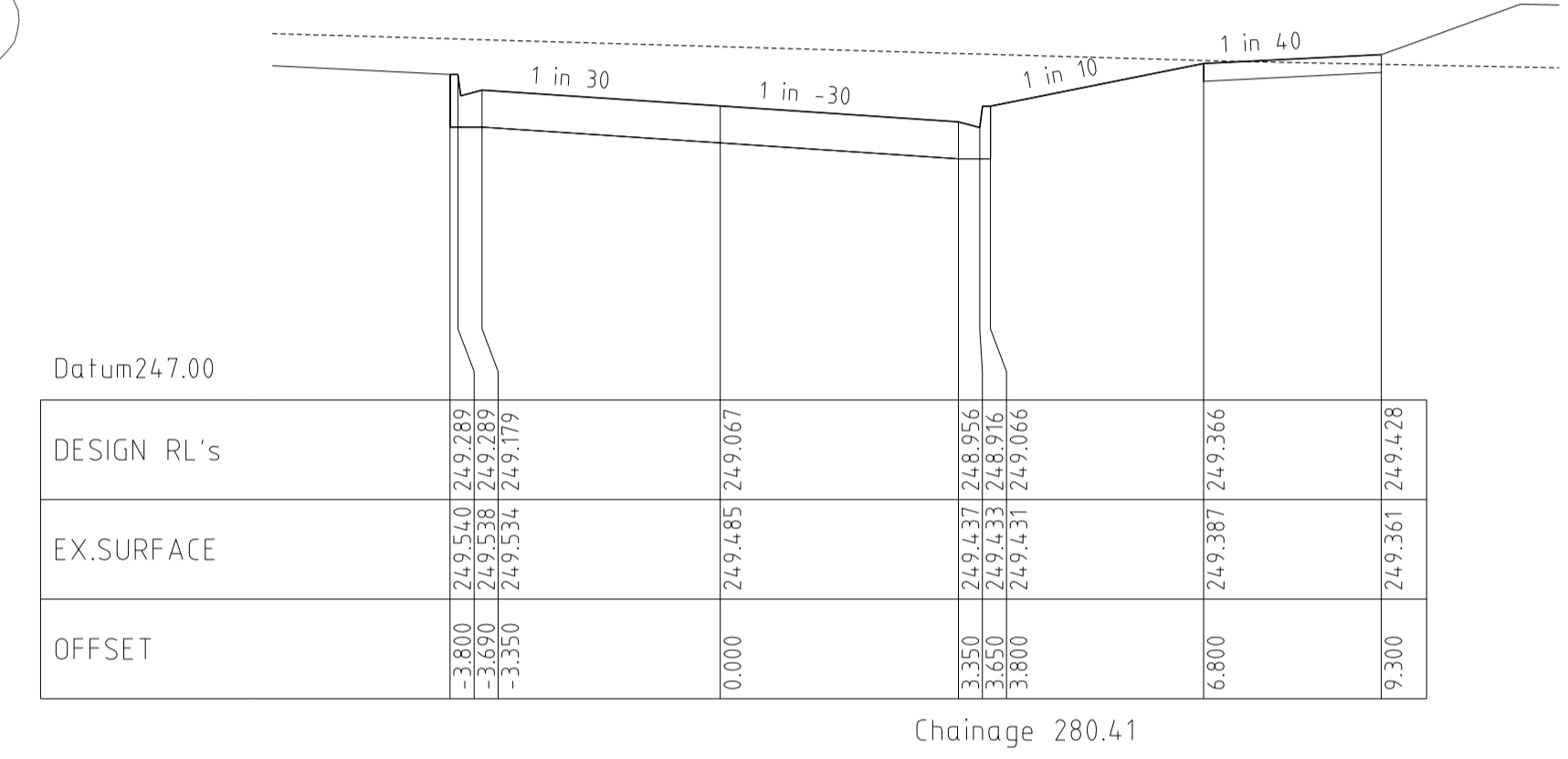
Chainage 254.56



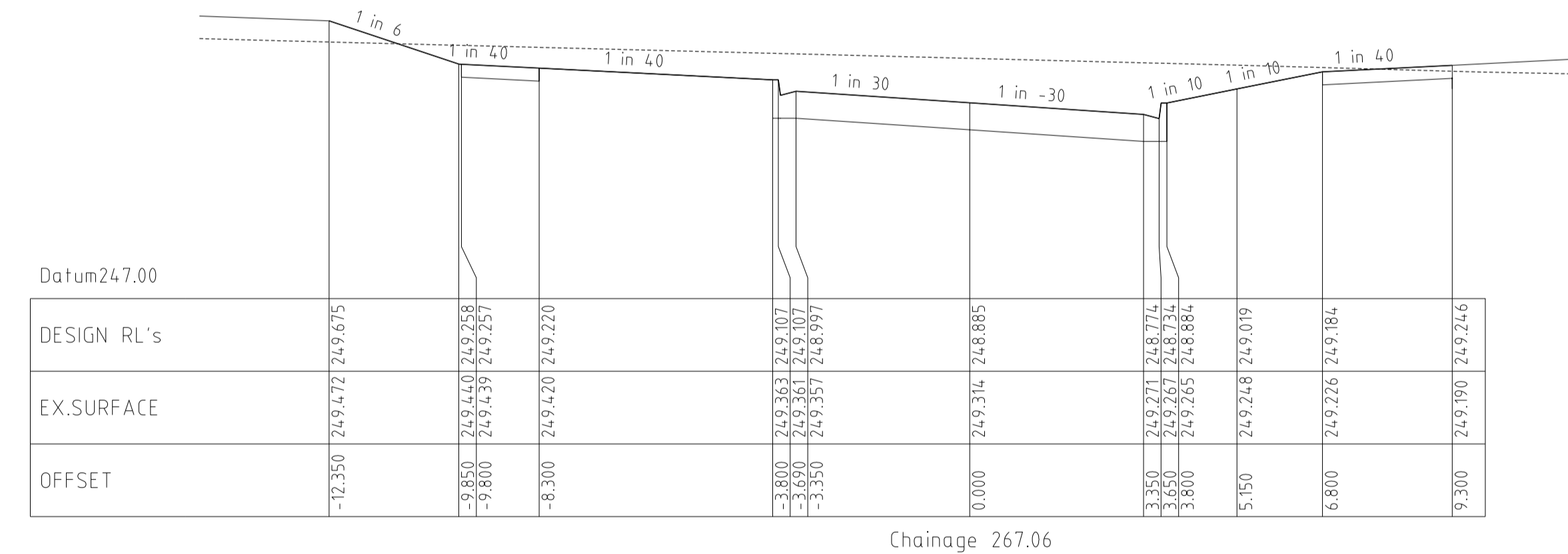
Chainage 242.06



Chainage 232.86



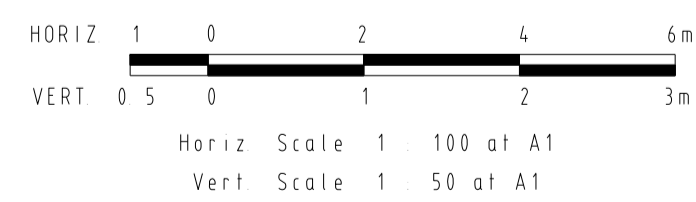
Chainage 280.41



Chainage 267.06

CONSTRACTED

ROSETTE PARADE
CROSS SECTIONS



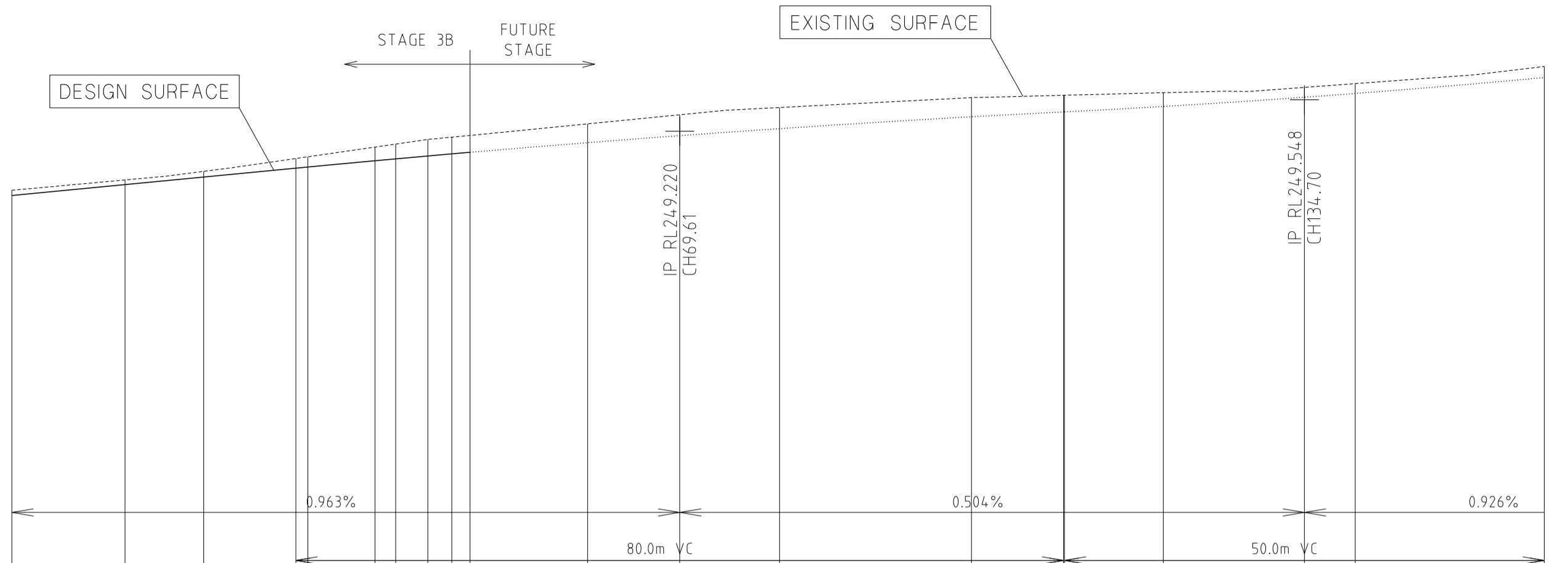
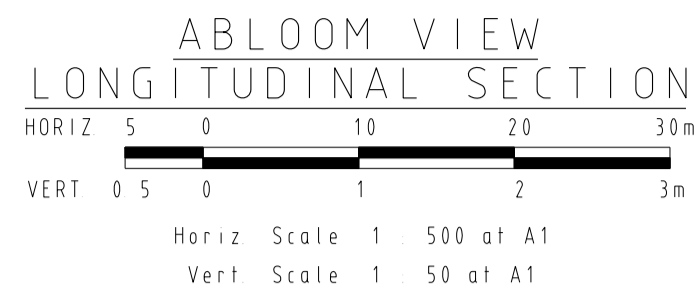
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC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



MORNINGTON
15 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road
Melbourne, 3002
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



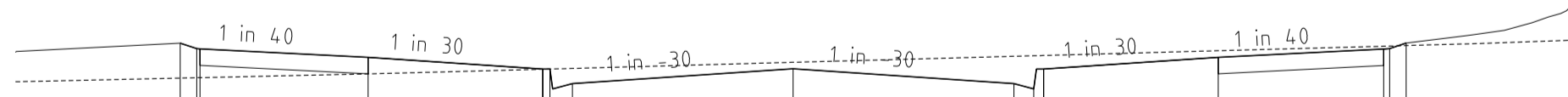
Horizontal Geometry
Vertical Grade
VC length

CHAINAGES	0.00	11.80	20.00	29.61	30.85	37.85	40.00	43.35	45.85	47.75	60.00	69.61	80.00	100.00	109.61	109.70	120.00	134.70	140.00	159.70
DESIGN CENTRELINE	248.550	248.664	248.743	248.835	248.847	248.912	248.932	248.962	248.984	249.000	249.101	249.174	249.247	249.370	249.421	249.422	249.478	249.574	249.613	249.779
EXISTING SURFACE	248.60	248.71	248.80	248.94	248.95	249.05	249.09	249.13	249.16	249.18	249.30	249.39	249.47	249.57	249.59	249.59	249.62	249.68	249.72	249.90



CHAINAGE	0.00	3.35	6.45	7.95	8.00	8.459
DESIGN RL's	248.861	249.014	248.845	248.911	248.845	248.934
EX.SURFACE	248.864	248.971	248.916	248.916	248.916	249.049
OFFSET	-8.250	-8.000	-3.800	-3.350	-3.350	6.450

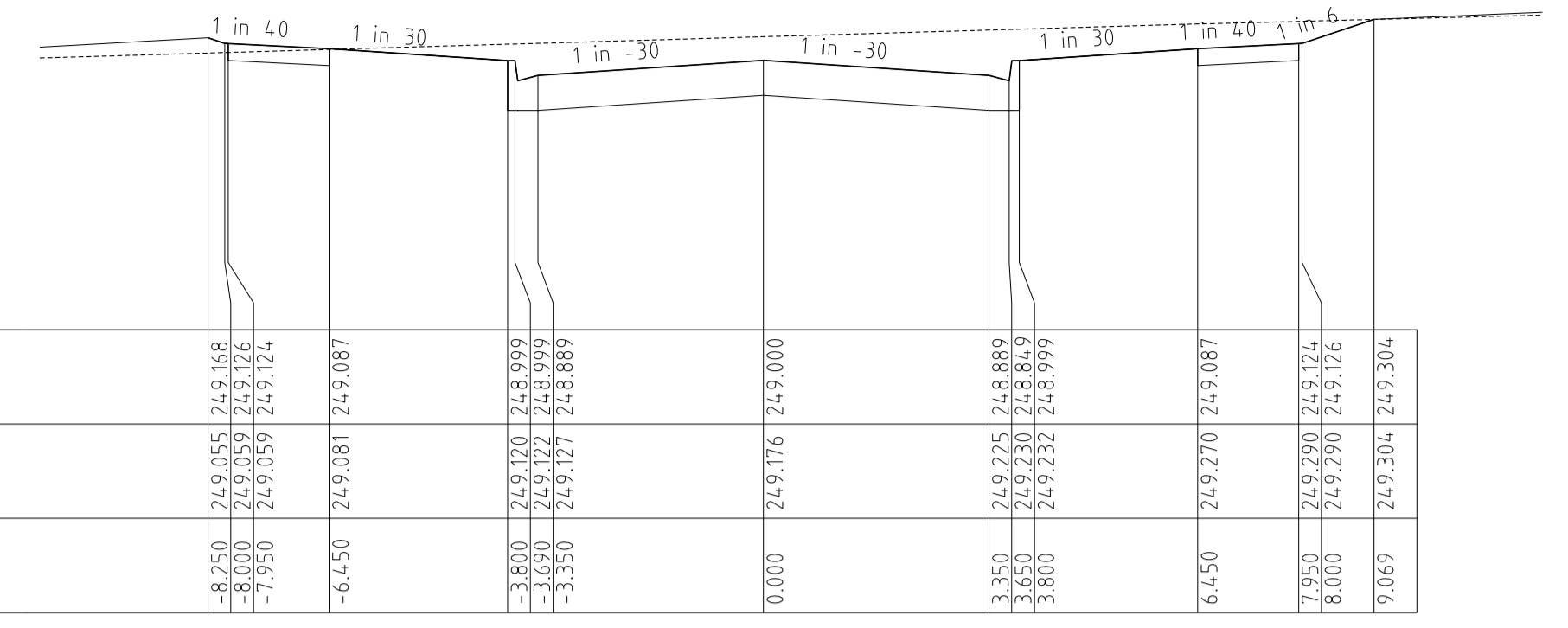
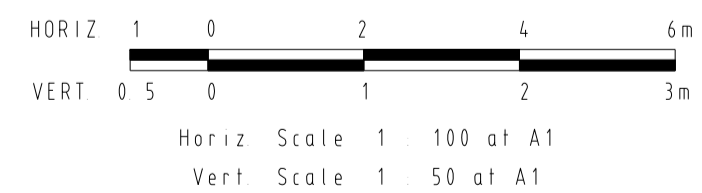
Chainage 30.85



CHAINAGE	0.00	3.35	6.45	8.95	9.300
DESIGN RL's	248.594	248.857	248.626	248.813	248.813
EX.SURFACE	248.597	248.816	248.667	248.813	248.813
OFFSET	-9.300	-9.050	-6.450	8.959	9.300

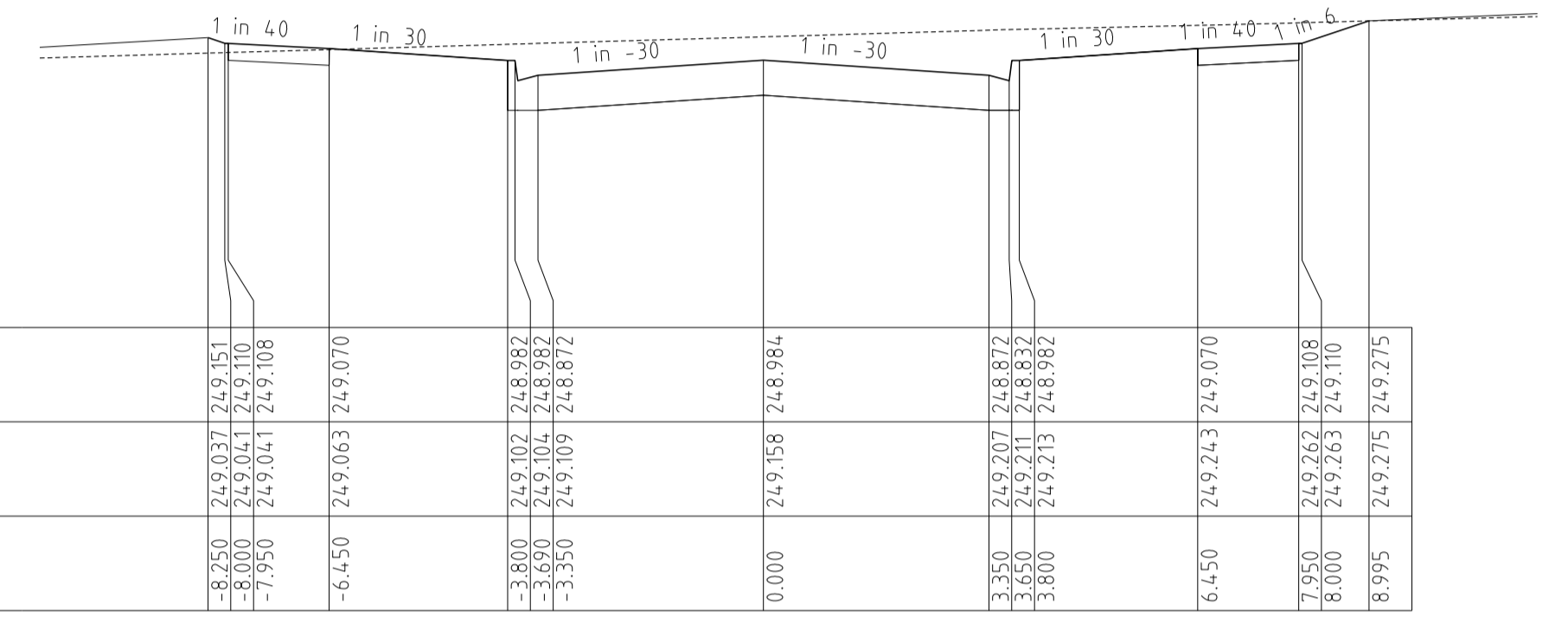
Chainage 11.80

**ABLOOM VIEW
CROSS SECTIONS**



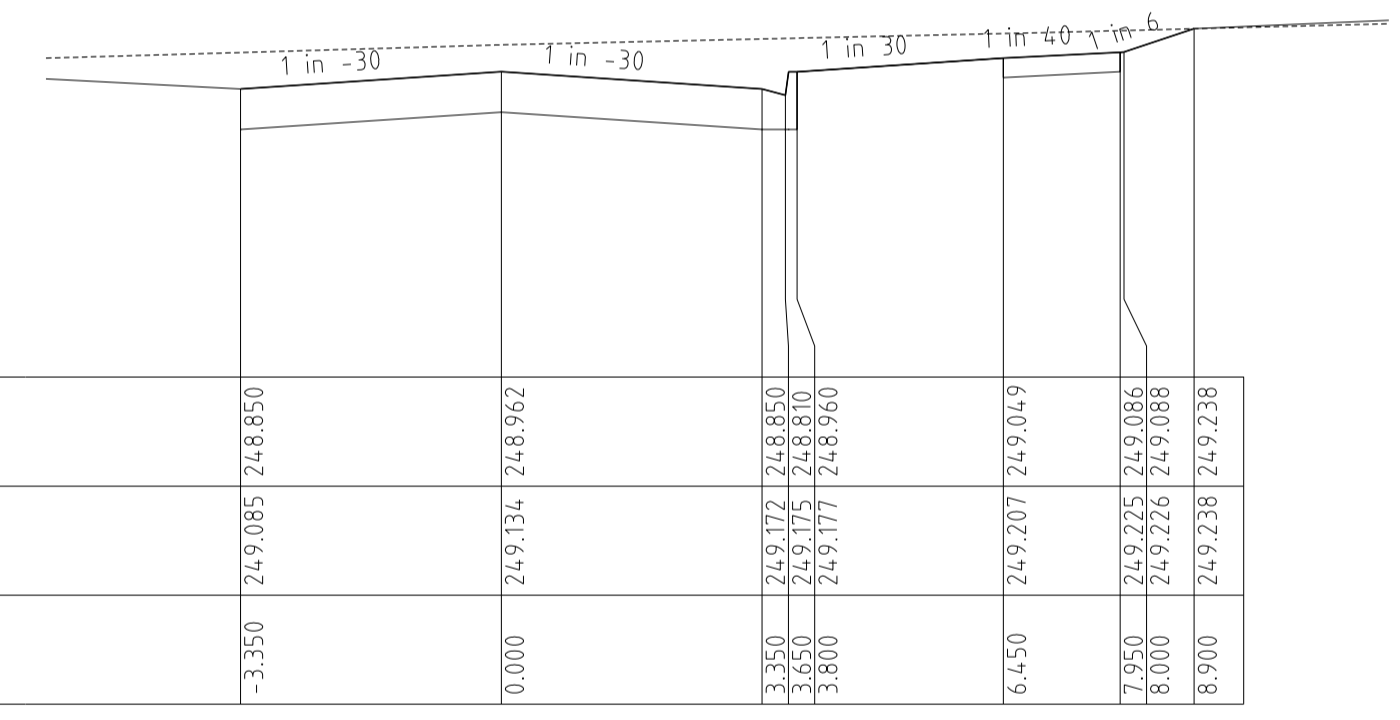
CHAINAGE	0.000	3.350	3.600	3.650	3.800	6.450	7.950	8.000	8.069
DESIGN RL's	249.000	249.168	249.168	249.168	249.168	249.000	249.168	249.168	249.304
EX.SURFACE	249.176	249.168	249.168	249.168	249.168	249.176	249.168	249.168	249.304
OFFSET	0.000	-3.350	-3.600	-3.650	-3.800	0.000	-3.350	-3.600	-9.069

Chainage 47.75



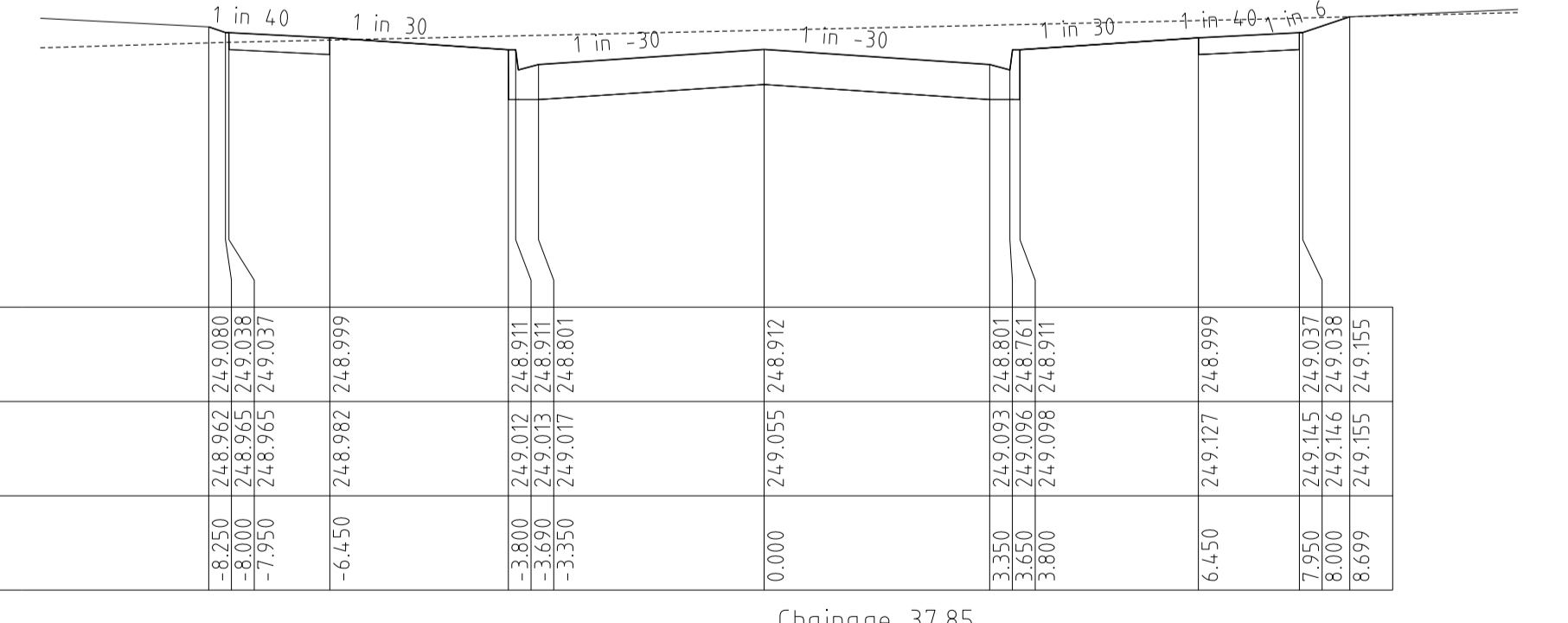
CHAINAGE	0.000	3.350	3.600	3.650	3.800	6.450	7.950	8.000	8.995
DESIGN RL's	248.984	249.070	249.070	249.070	249.070	248.984	249.070	249.070	249.275
EX.SURFACE	249.158	249.070	249.070	249.070	249.070	249.158	249.070	249.070	249.275
OFFSET	0.000	-3.350	-3.600	-3.650	-3.800	0.000	-3.350	-3.600	-8.995

Chainage 45.85



CHAINAGE	0.000	3.350	3.600	3.650	3.800	6.450	7.950	8.000	8.900
DESIGN RL's	248.962	249.085	249.085	249.085	249.085	248.962	249.085	249.085	249.238
EX.SURFACE	249.134	249.085	249.085	249.085	249.085	249.134	249.085	249.085	249.238
OFFSET	0.000	-3.350	-3.600	-3.650	-3.800	0.000	-3.350	-3.600	-8.900

Chainage 43.35



CHAINAGE	0.000	3.350	3.600	3.650	3.800	6.450	7.950	8.000	8.699
DESIGN RL's	248.912	249.031	249.031	249.031	249.031	248.912	249.031	249.031	249.155
EX.SURFACE	249.096	249.031	249.031	249.031	249.031	249.096	249.031	249.031	249.155
OFFSET	0.000	-3.350	-3.600	-3.650	-3.800	0.000	-3.350	-3.600	-8.699

Chainage 37.85

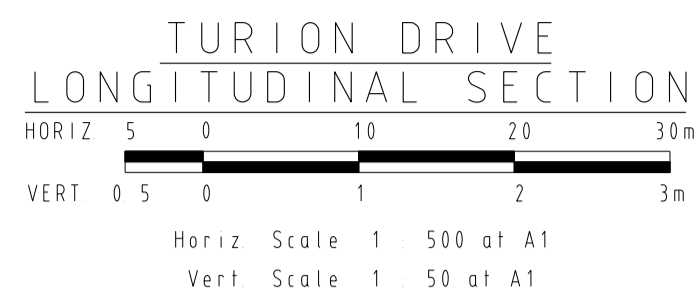
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	LEVEL DATA:	K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	DATUM:	AHD
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	PROJECT No.:	36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	DRAWN:	C.M.B DATE: MAY 2013
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	DESIGNED:	Z.W.L DATE: MAY 2013
FILENAME k:\36182\36182\3b\dgn\r14.dgn	AUTHORISED:	A.S.C	DATE:	MAY 2013



MORNINGTON
5 Main Street,
P.O. Box 113 3911
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

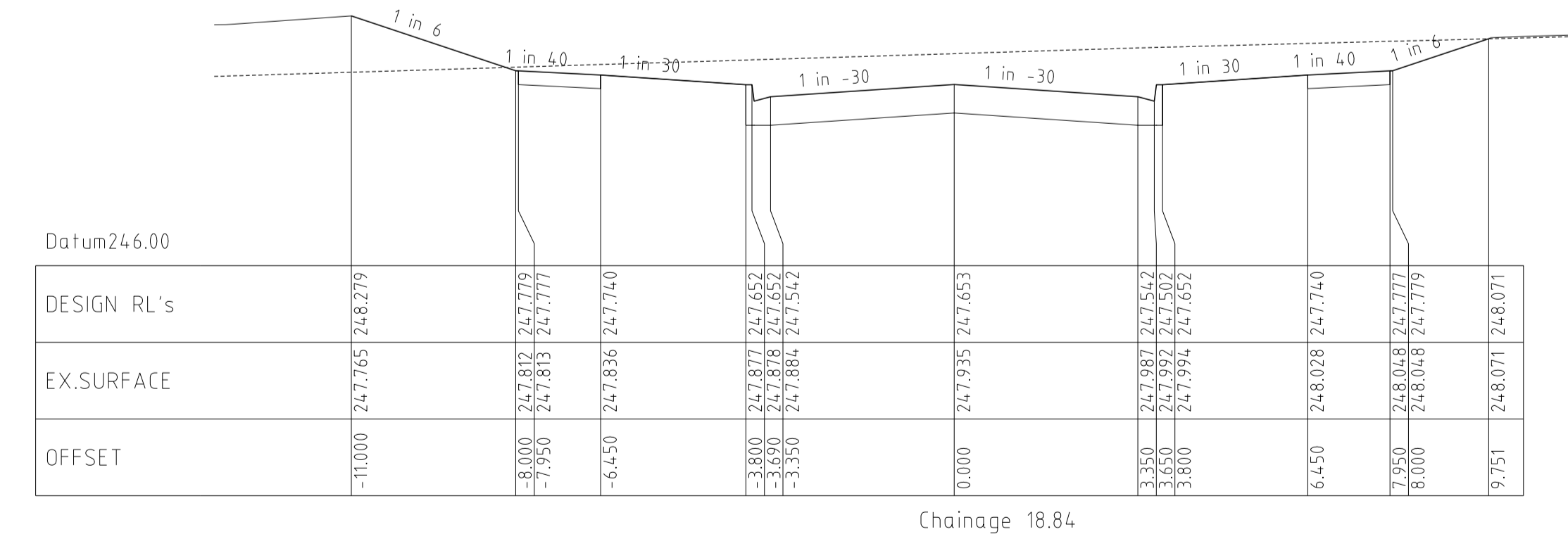
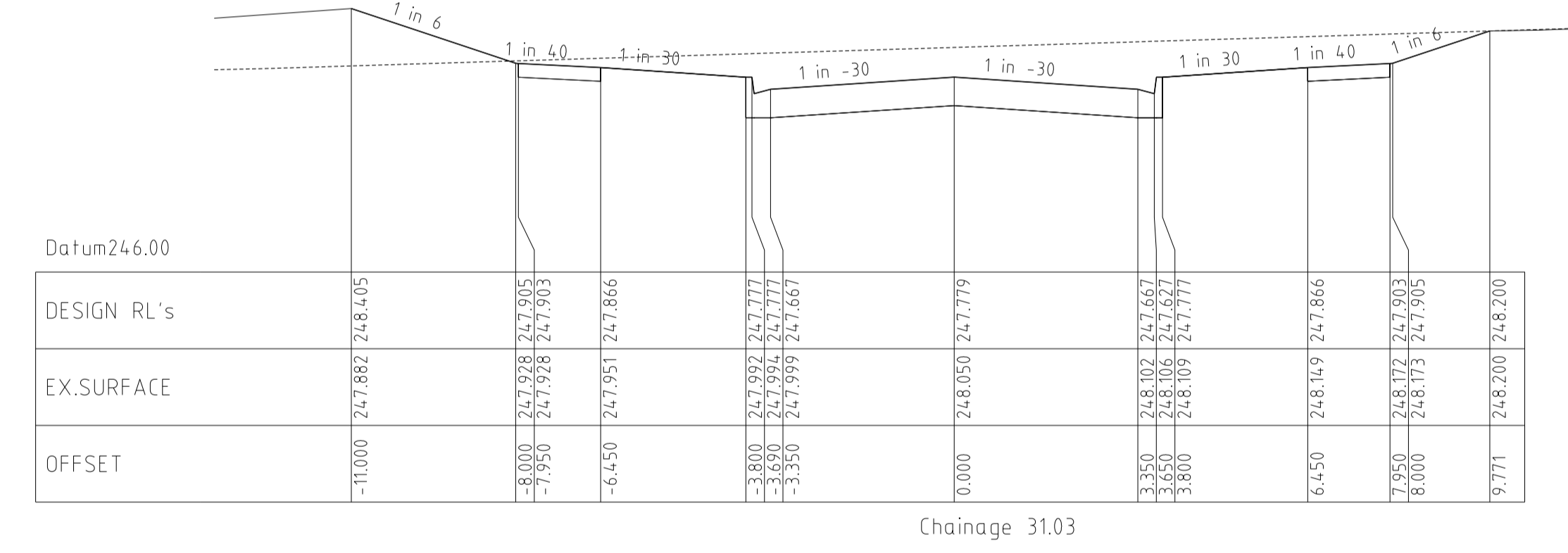
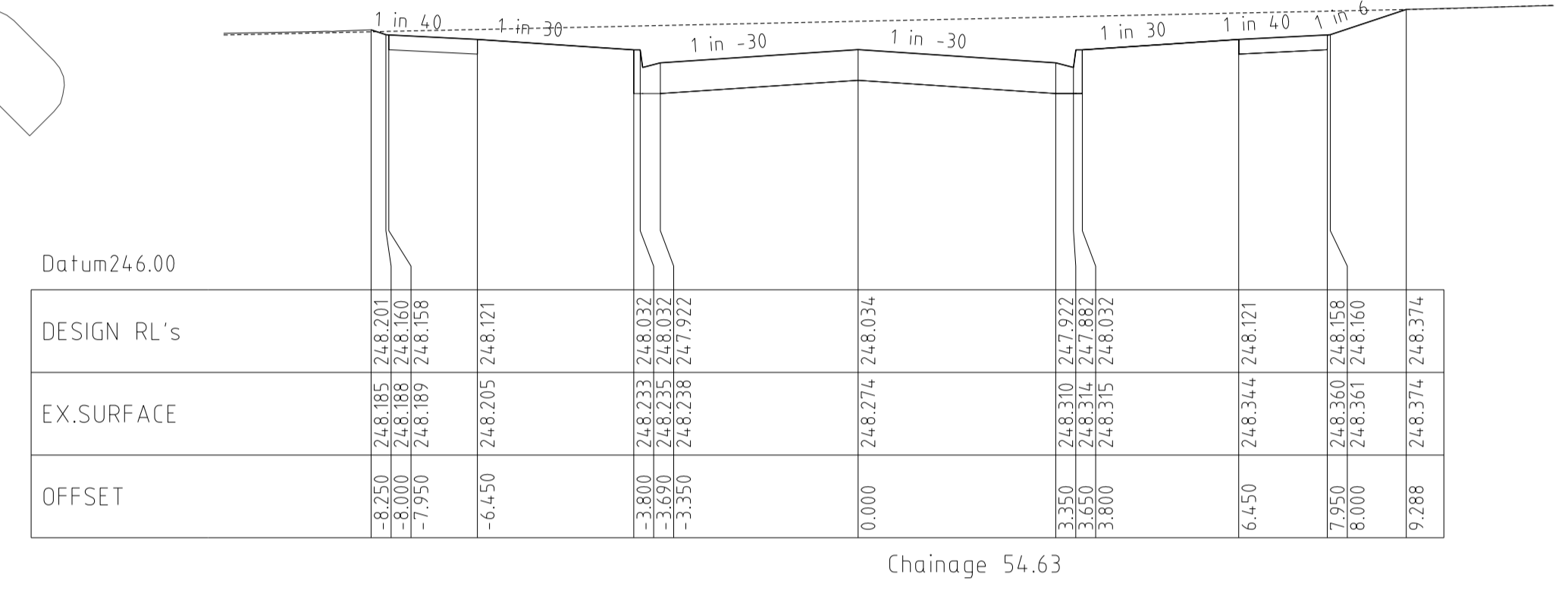
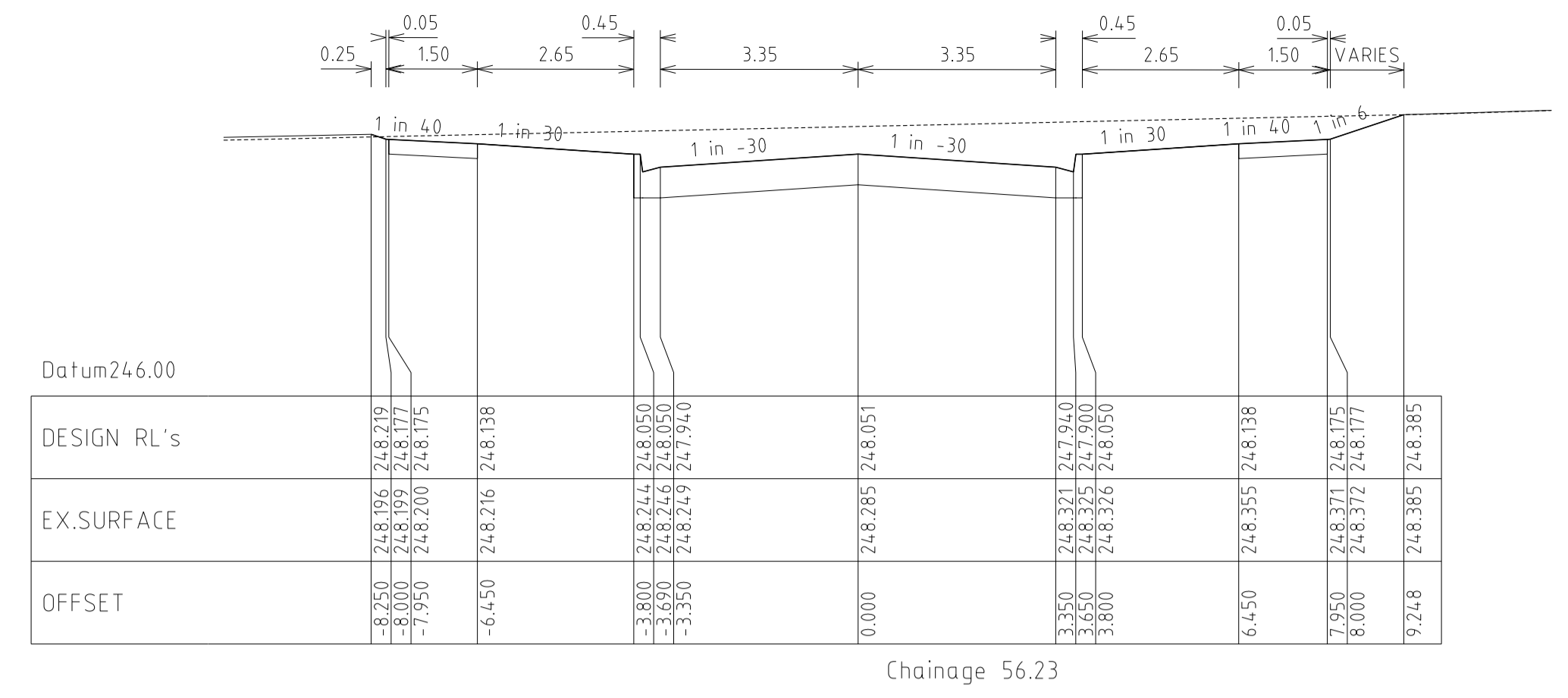
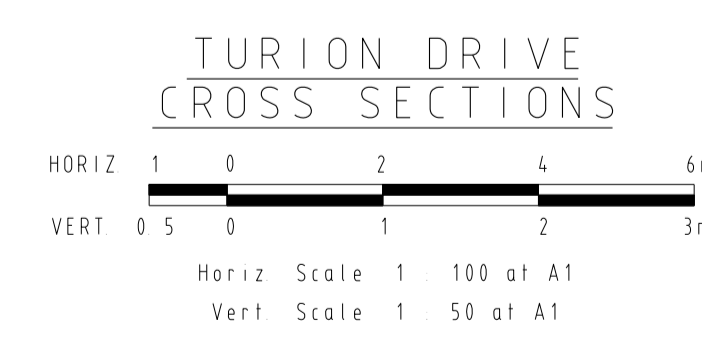
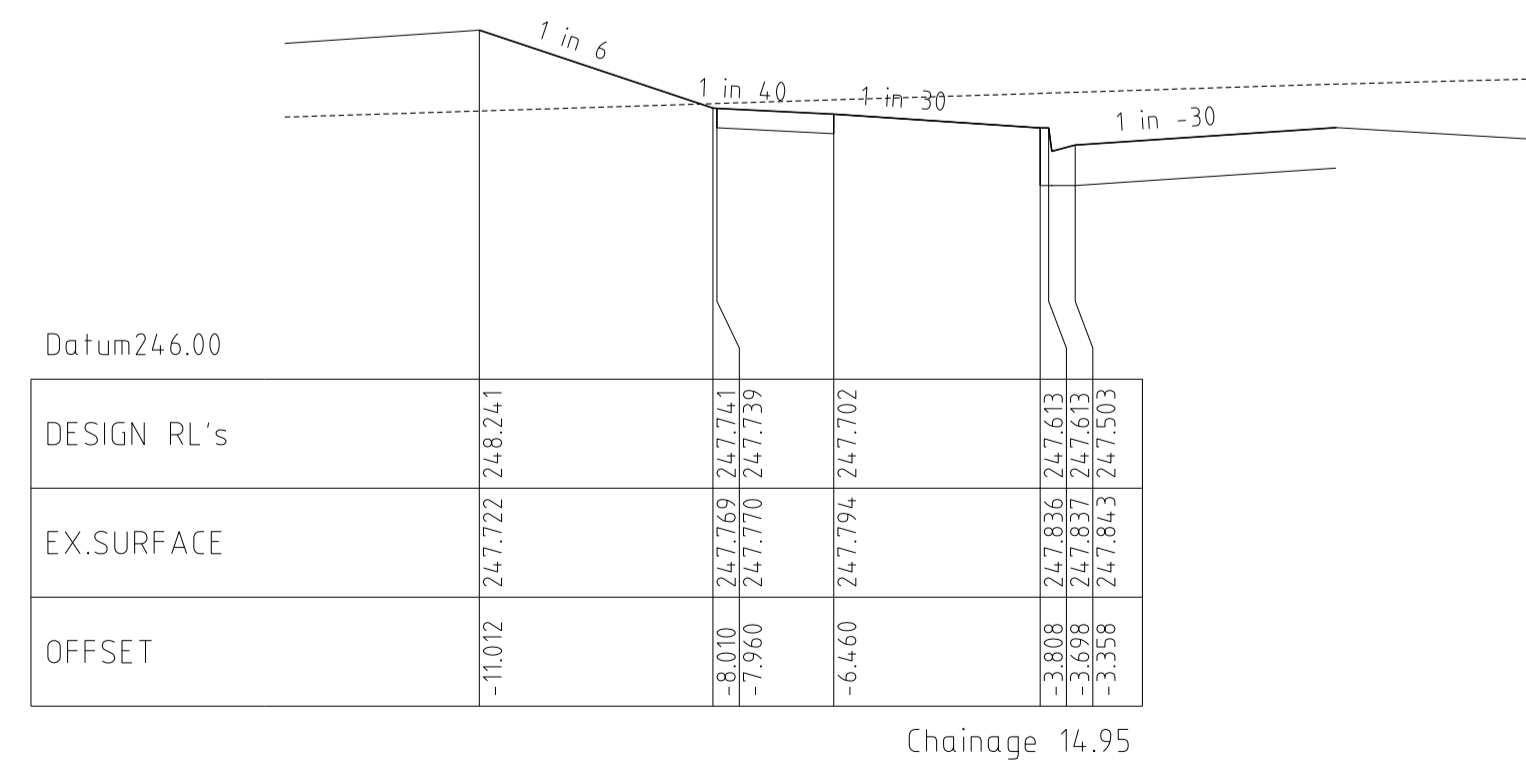
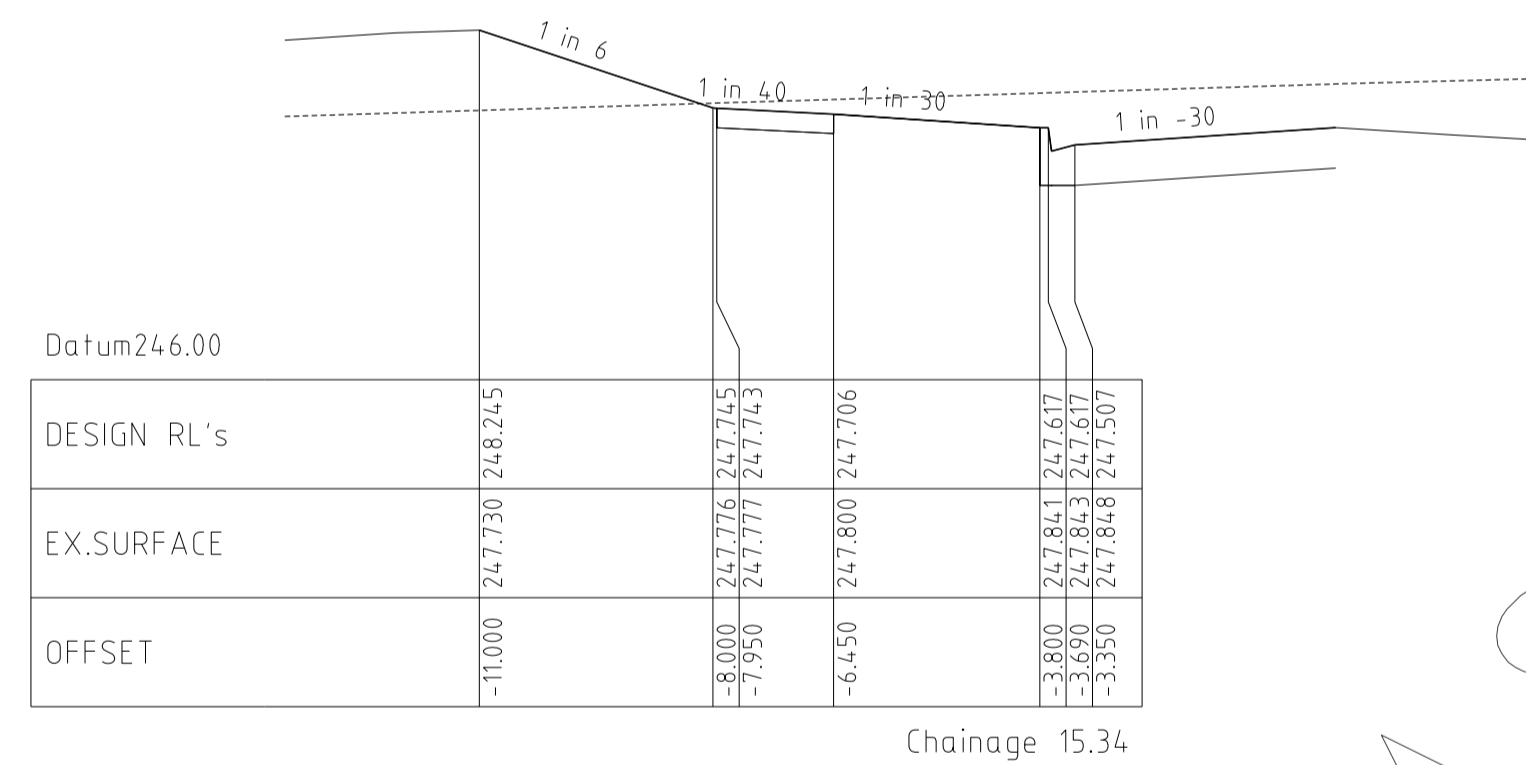
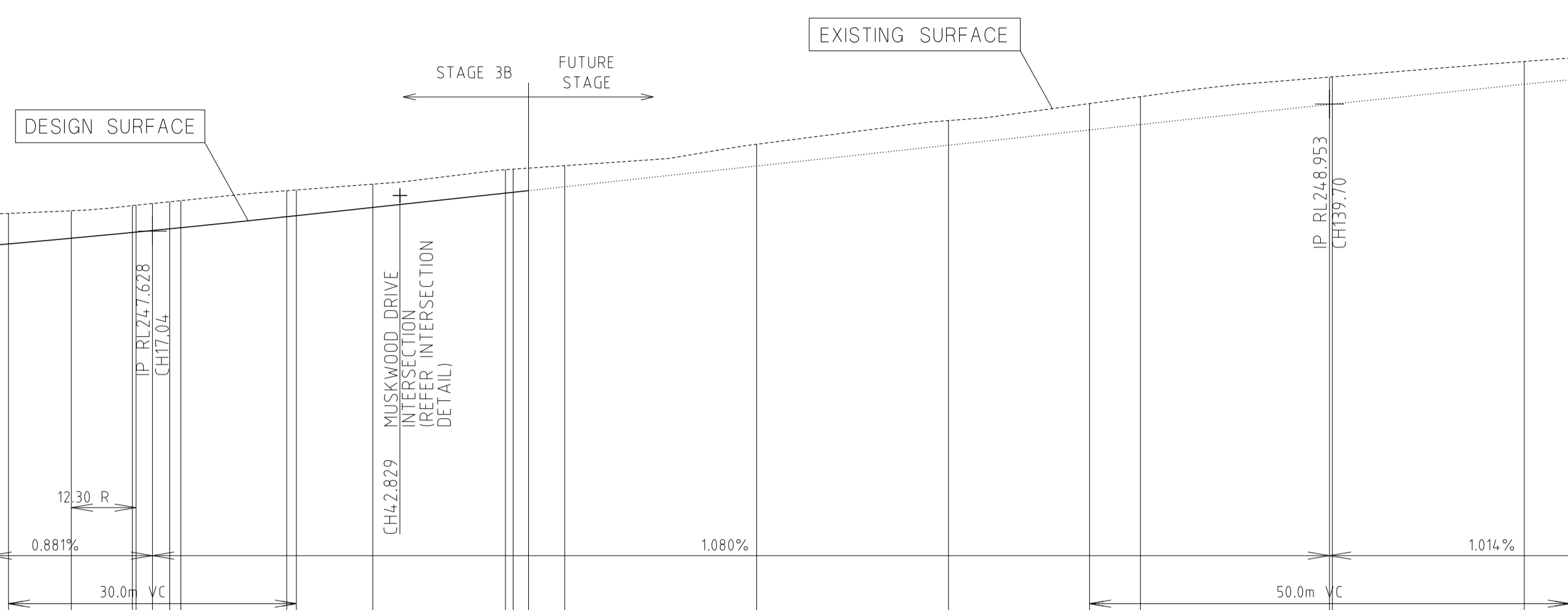
MELBOURNE
The Melbourne, Suite 2
25 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9497 8000
Fax: (03) 9497 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R14
ABLOOM VIEW LONGITUDINAL & CROSS SECTIONS		REVISION N
		SHEET 14 OF 27



Horizontal Geometry
Vertical Grade
VC length

CHAINAGES	0.00	0.13	2.04	8.58	14.95	15.34	17.04	18.84	20.00	31.03	32.04	40.00	53.83	54.53	56.23	60.00	80.00	100.00	114.70	120.00	139.70	140.00	160.00	164.70	
DESIGN CENTRELINE	24.781	24.749	24.749	24.755	24.765	24.769	24.763	24.765	24.765	24.805	24.779	24.876	24.827	24.834	24.805	24.809	24.830	24.852	24.868	24.874	24.923	24.924	24.918	24.915	24.915
EXISTING SURFACE	24.781	24.749	24.749	24.755	24.765	24.769	24.763	24.765	24.765	24.805	24.779	24.876	24.827	24.834	24.805	24.809	24.830	24.852	24.868	24.874	24.923	24.924	24.918	24.915	24.915



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
07/10/13	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\15.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



MORNINGTON
5 Main Street,
P.O. Box 173 3931
Melbourne, 3902
Phone (03) 5975 3916
Fax (03) 5975 8000

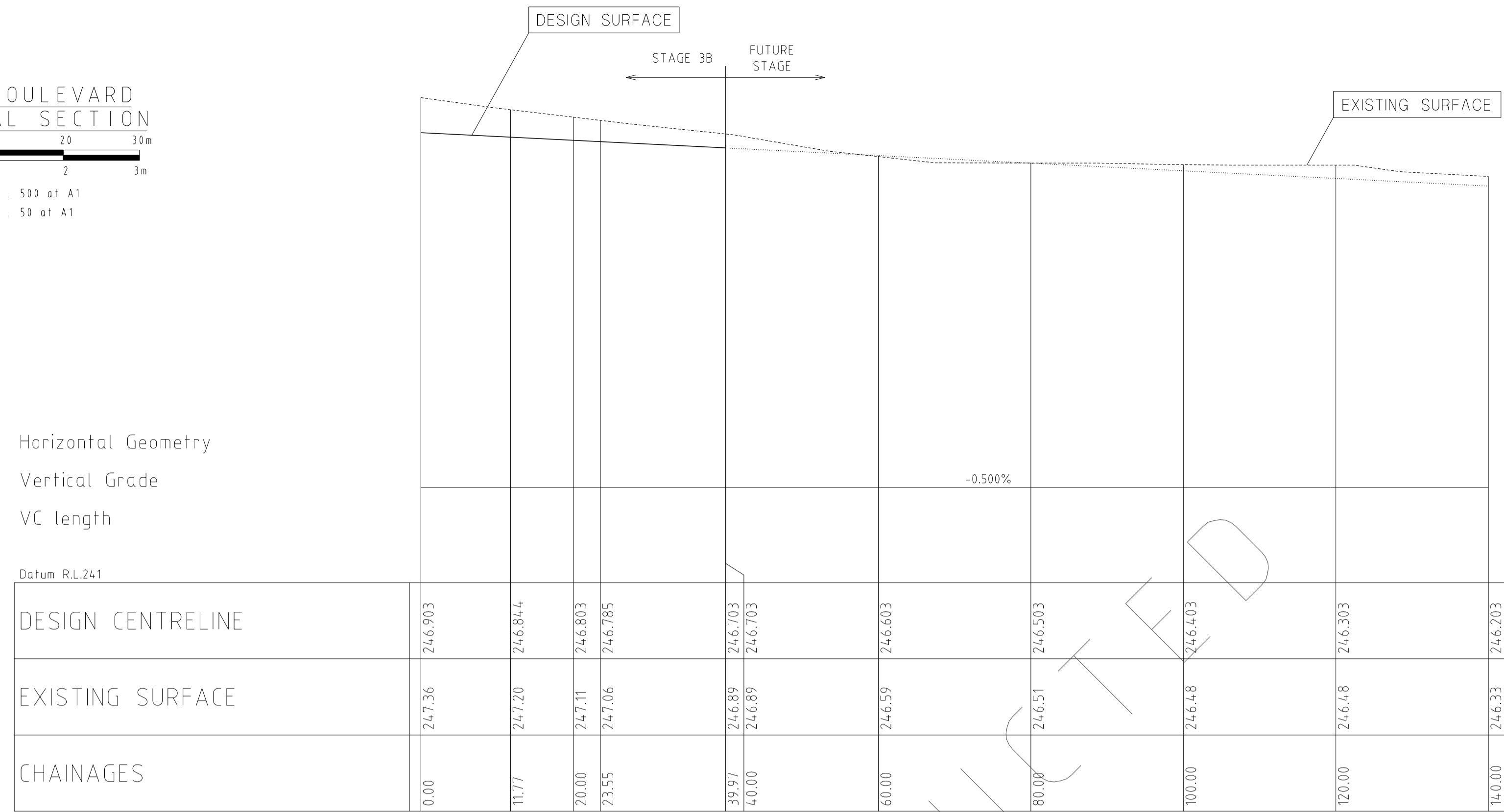
MELBOURNE
The Melbourne, Suite 2
25 St. Kilda Road,
Melbourne, 3002
Phone (03) 9697 8000
Fax (03) 9697 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R15
TURION DRIVE LONGITUDINAL & CROSS SECTIONS		REVISION N
		SHEET 15 OF 27

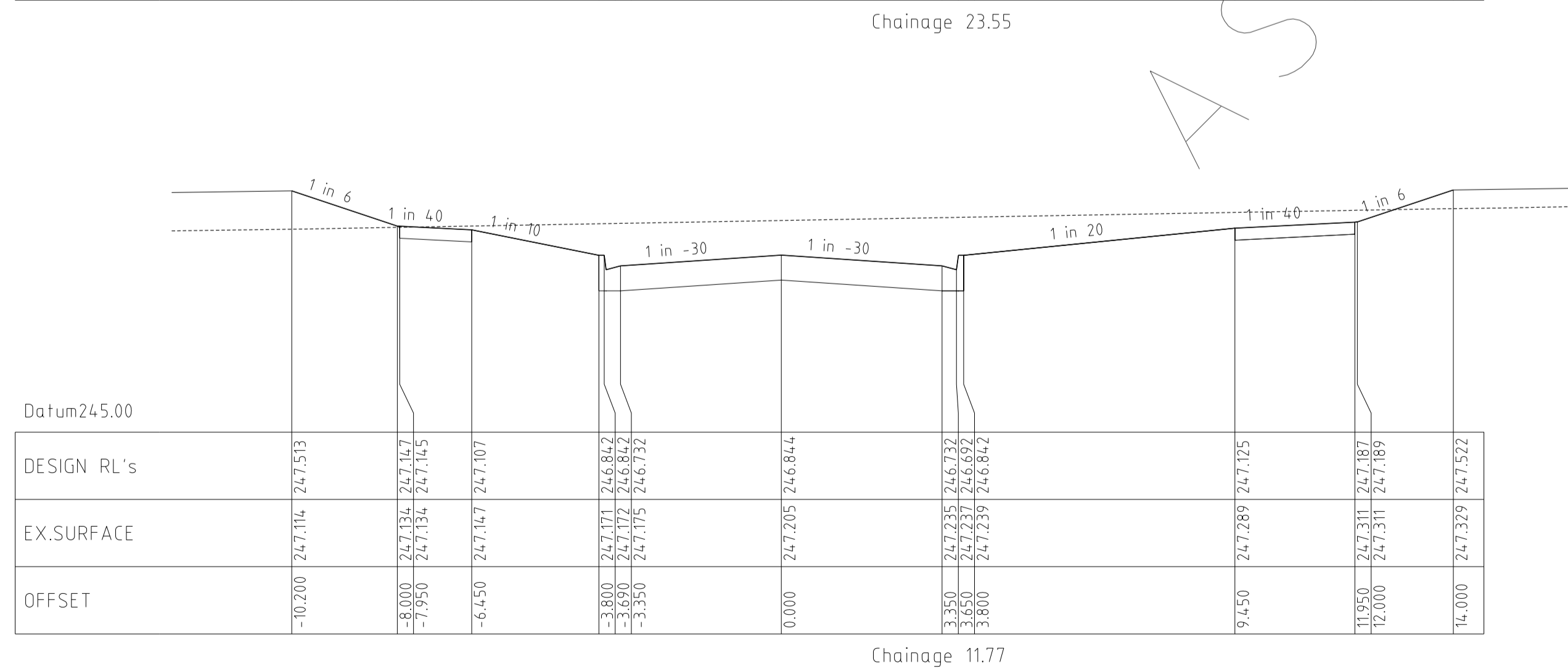
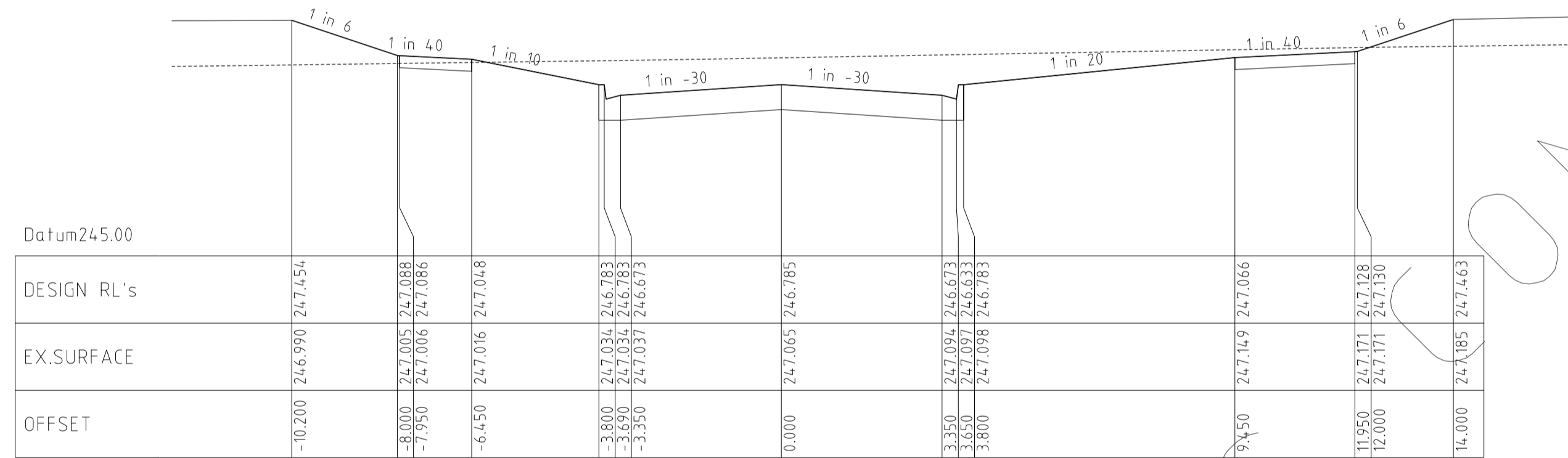
OLEANDER BOULEVARD
LONGITUDINAL SECTION

HORIZ 0 5 10 20 30m
VERT 0 5 10 20 30m

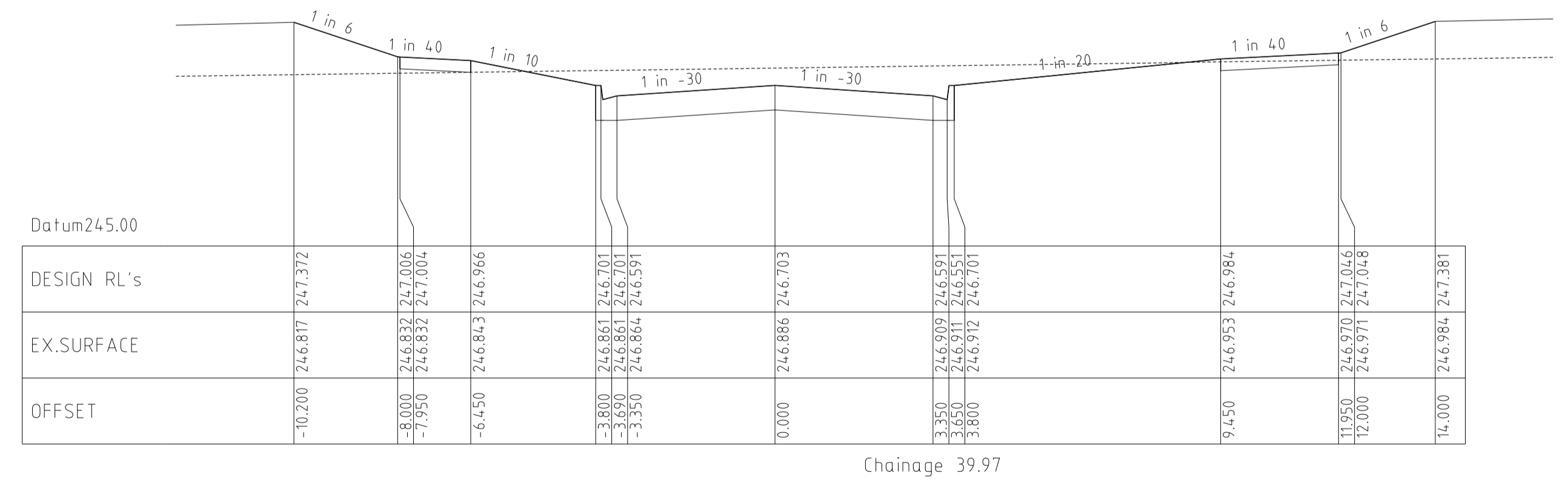
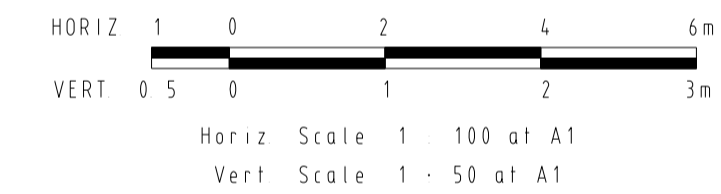
Horiz Scale 1 : 500 at A1
Vert Scale 1 : 50 at A1



DESIGN CENTRELINE	0.00	11.77	20.00	23.55	39.97	40.00	60.00	80.00	100.00	120.00	140.00
EXISTING SURFACE	24.7.36	24.7.20	24.6.84.4	24.6.80.3	24.6.78.5	24.6.70.3	24.6.60.3	24.6.50.3	24.6.40.3	24.6.30.3	24.6.20.3
CHAINAGES											



OLEANDER BOULEVARD
CROSS SECTIONS

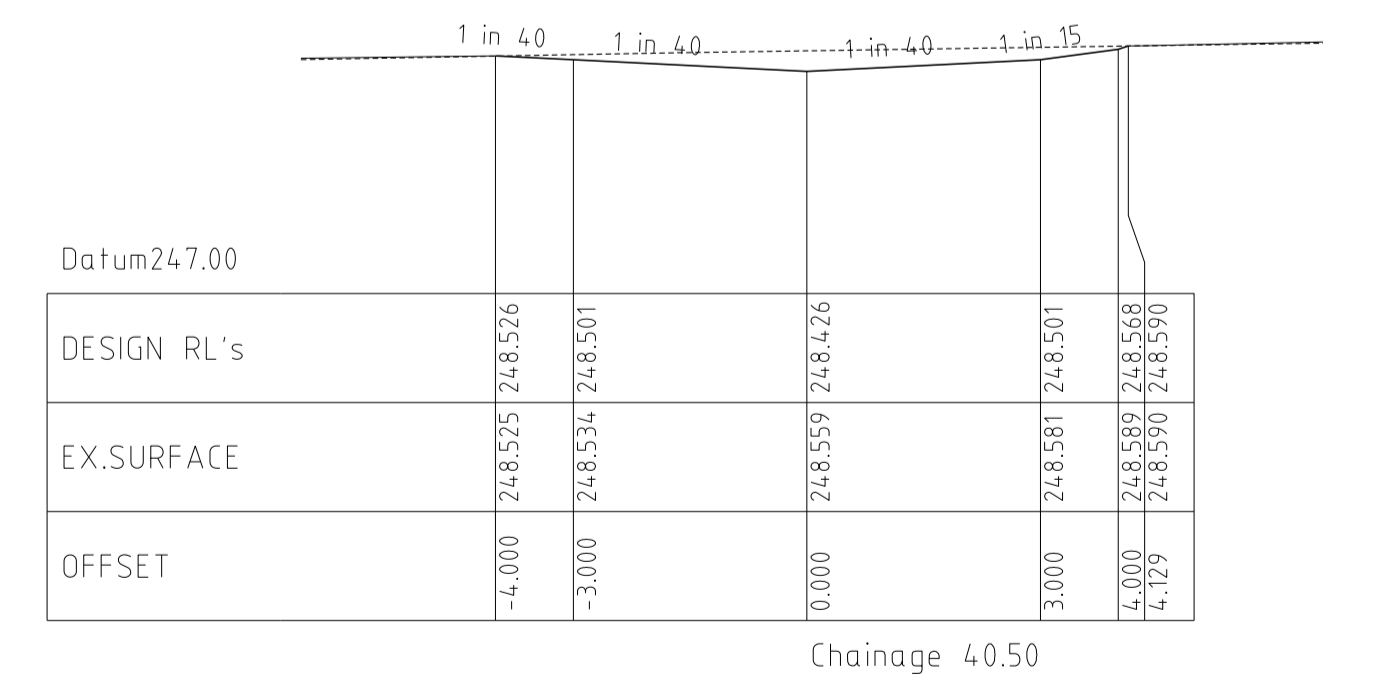
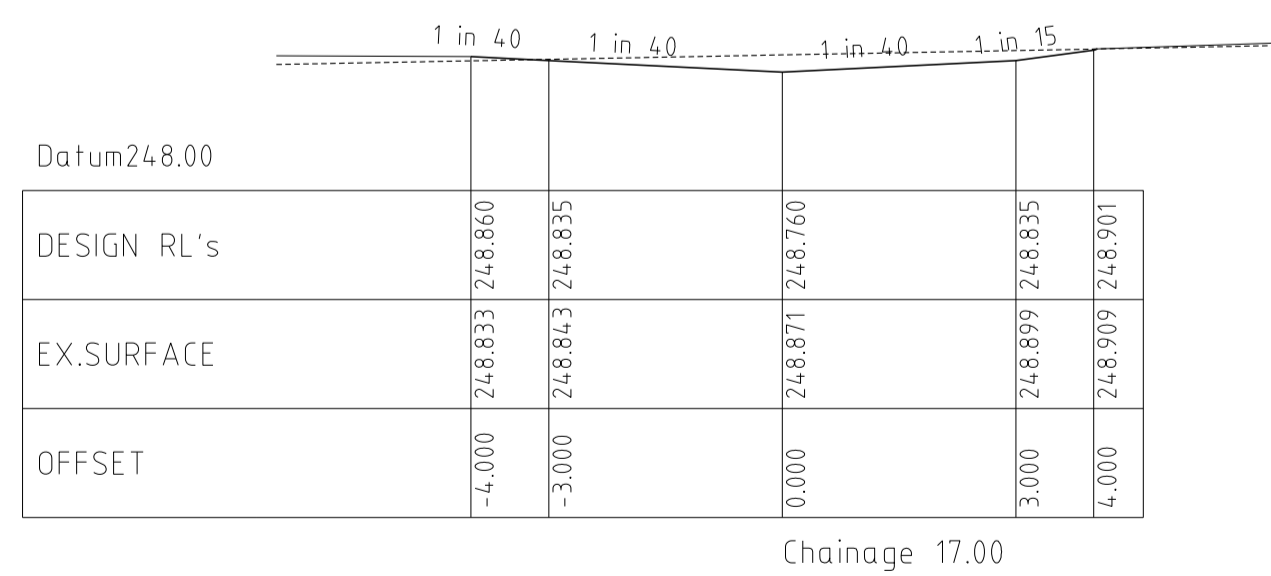
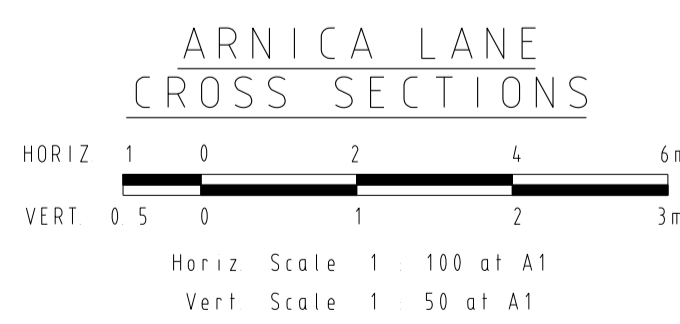
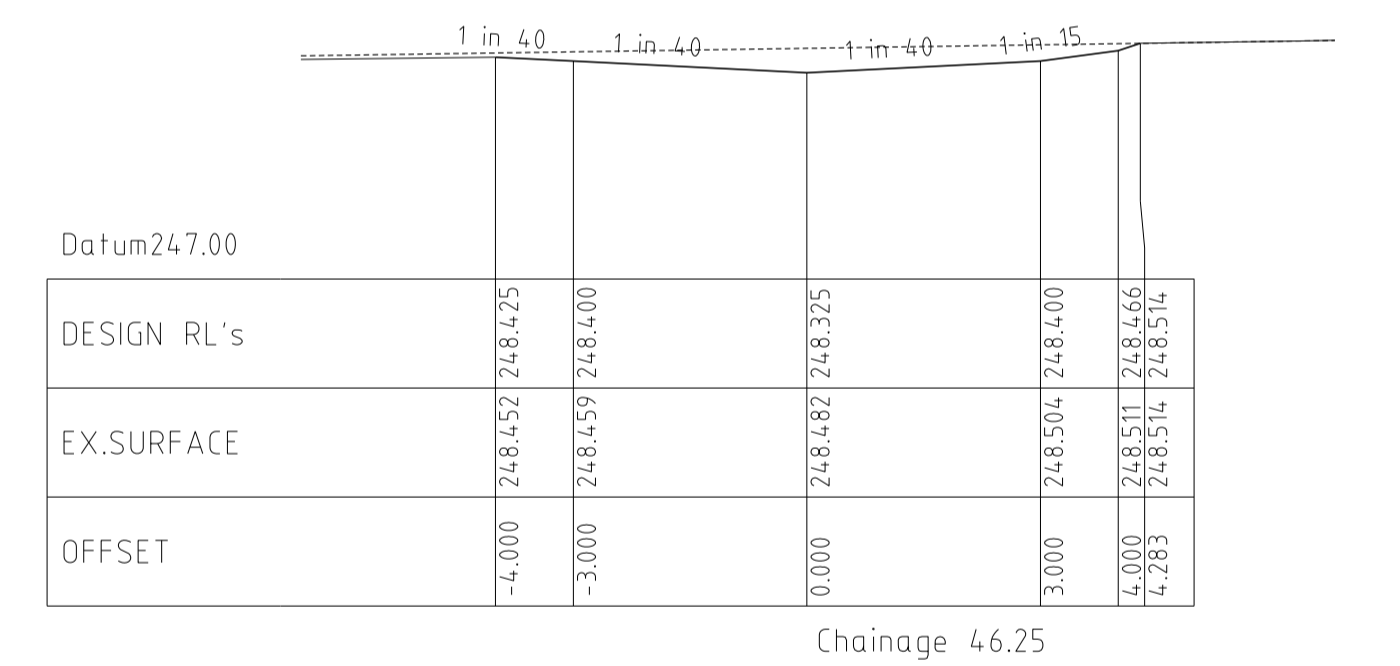
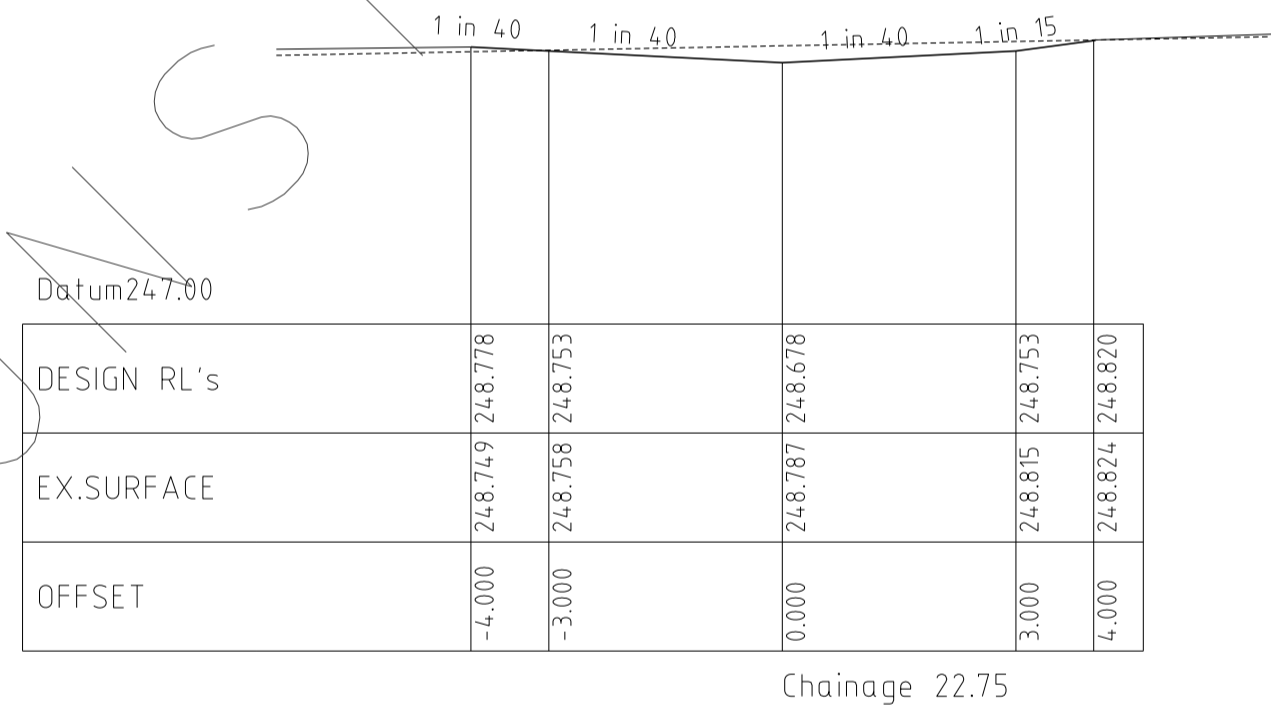
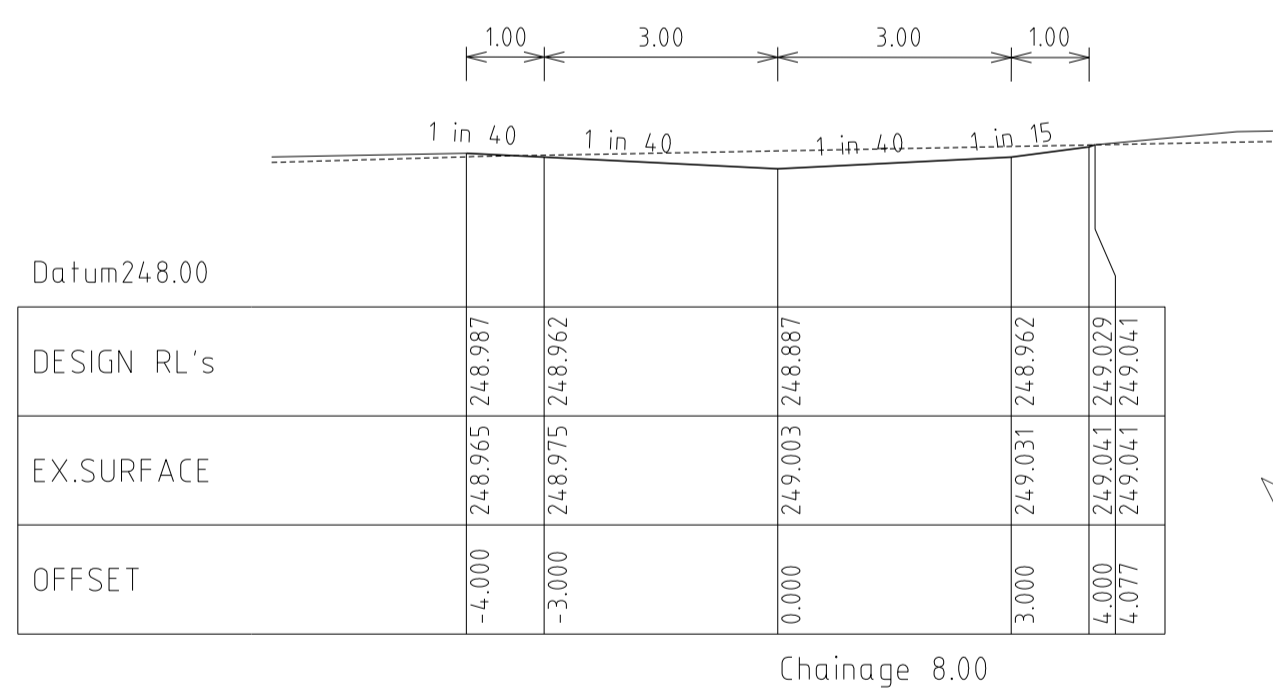
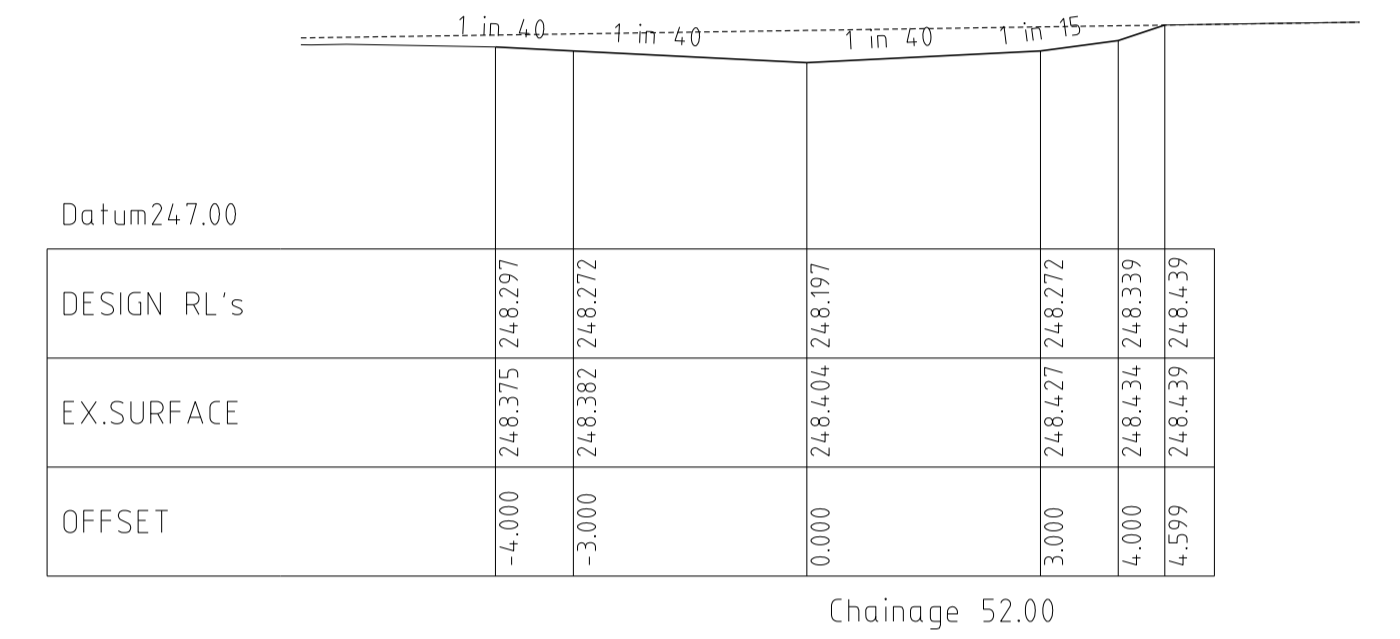
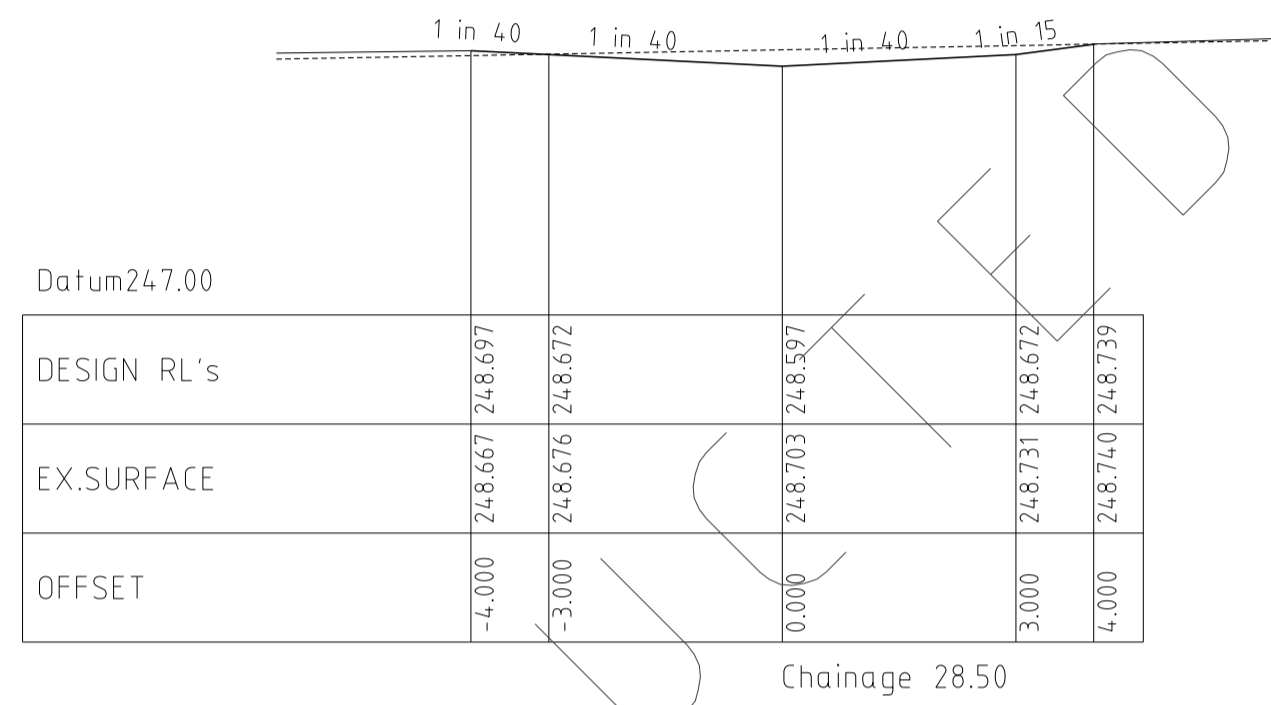
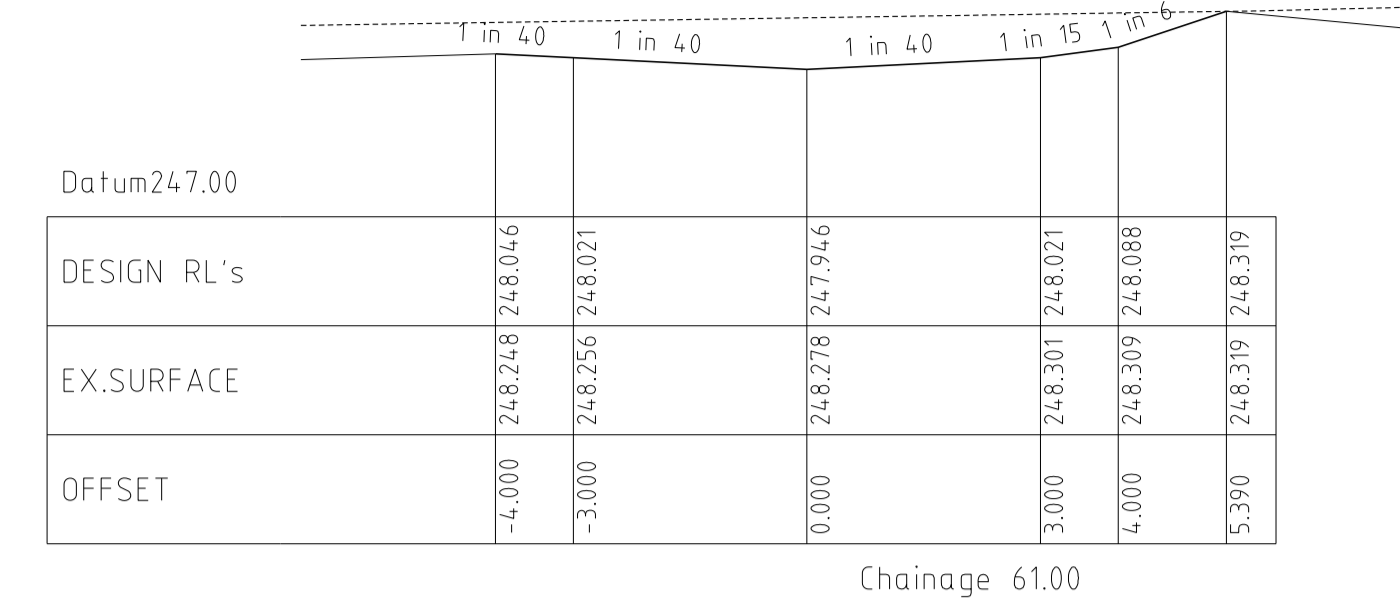
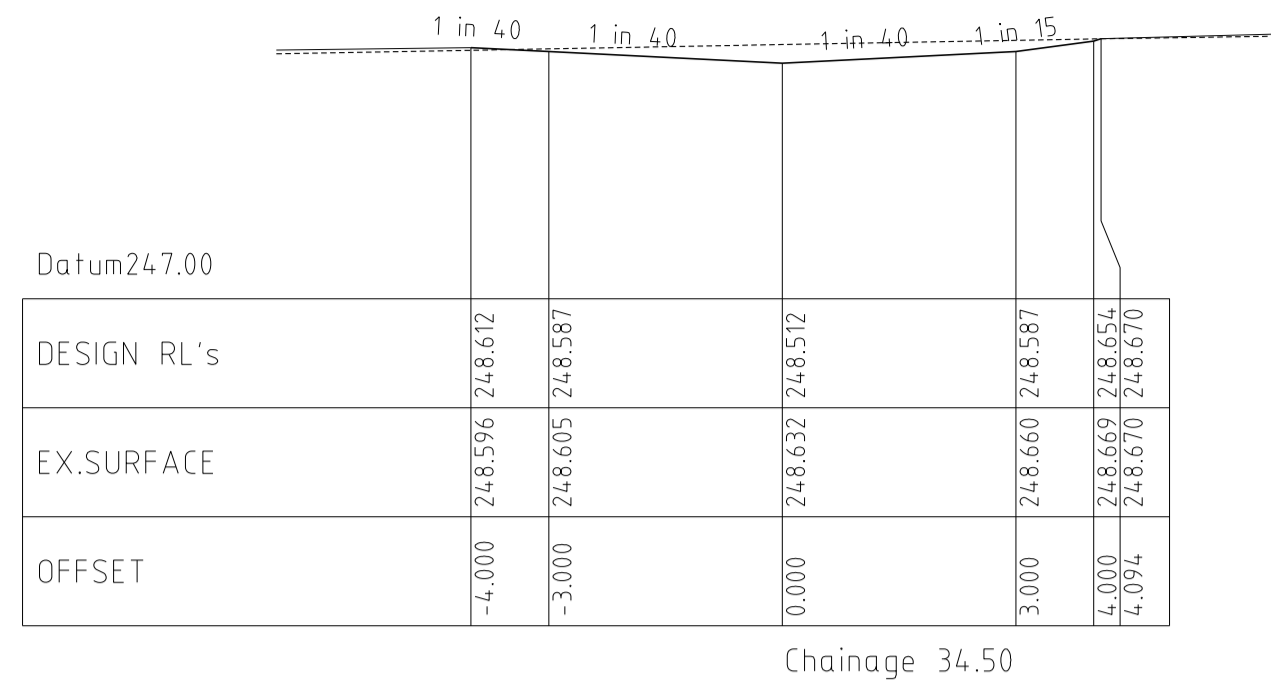
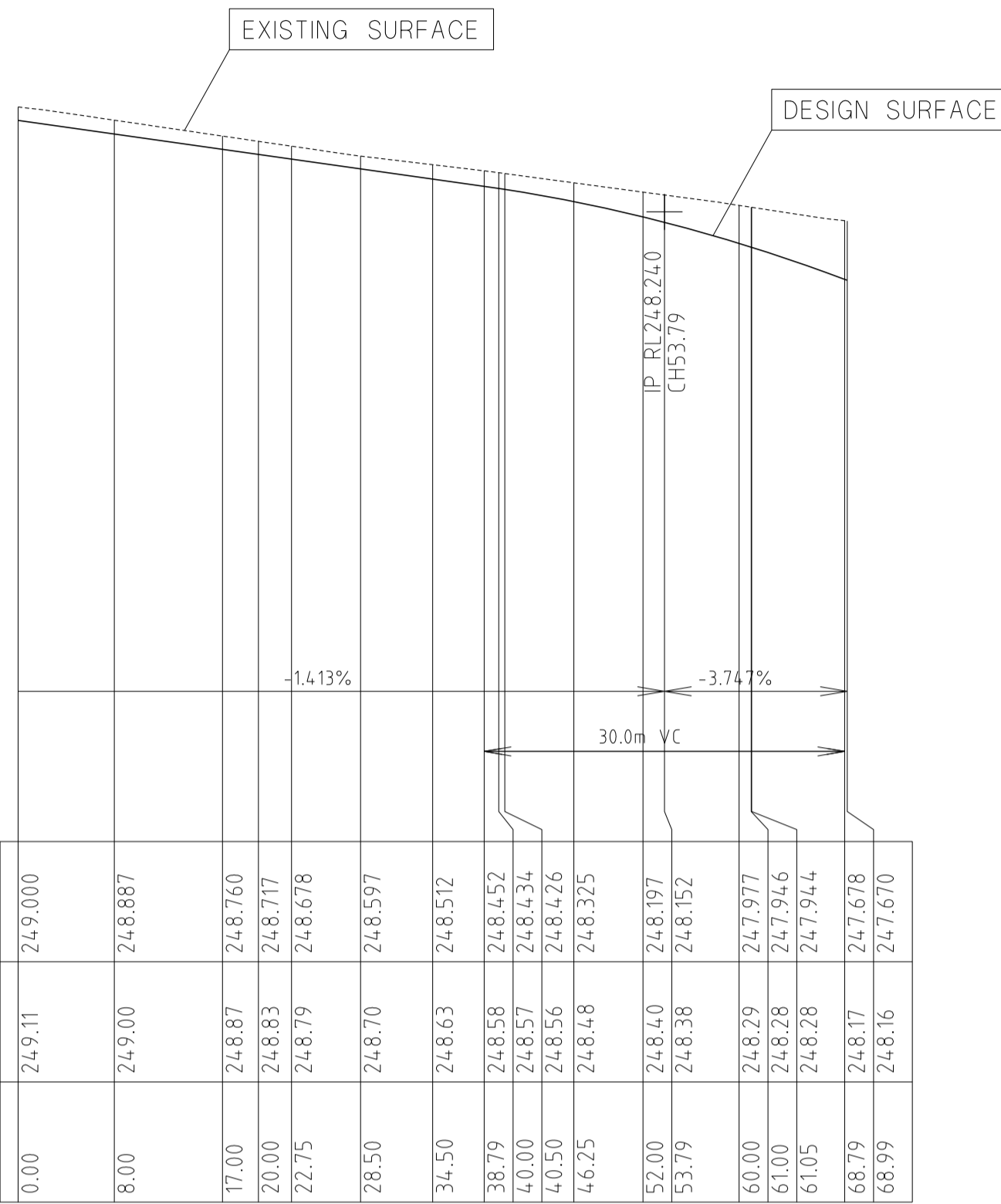
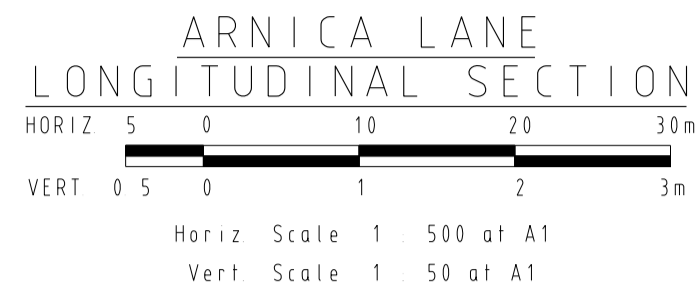


REVISIONS			SCALE:
DATE	DETAILS	AUTHORISED	AS SHOWN
14/02/14	N	ASC	DATE PRINTED: 14/02/2014
22/01/14	M	ASC	LEVEL DATA: K:\36182\36182\LT.OPO
07/10/13	L	ASC	DATUM: AHD
18/09/13	K	ASC	PROJECT No.: 36182/3B
17/09/13	J	ASC	DRAWN: C.M.B. DATE: MAY 2013
		ASC	DESIGNED: Z.W.L. DATE: MAY 2013
FILENAME k:\36182\36182\3b\dgn\17.dgn			AUTHORISED: A.S.C. DATE: MAY 2013

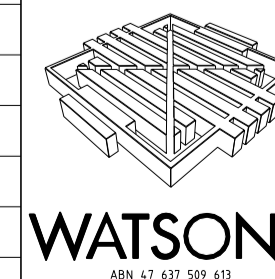
WATSONS
MORNINGTON: 5 Main Street, P.O. Box 171, 3931. Phone: (03) 5975 4444. Fax: (03) 5975 3916. DX: 93118 Mornington.

MELBOURNE: The Melbourne Suite 2, 25 St. Kilda Road, Melbourne, 3002. 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 R17
OLEANDER BOULEVARD LONGITUDINAL & CROSS SECTIONS		REVISION N
		SHEET 17 OF 27



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
07/10/13	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\r18 .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

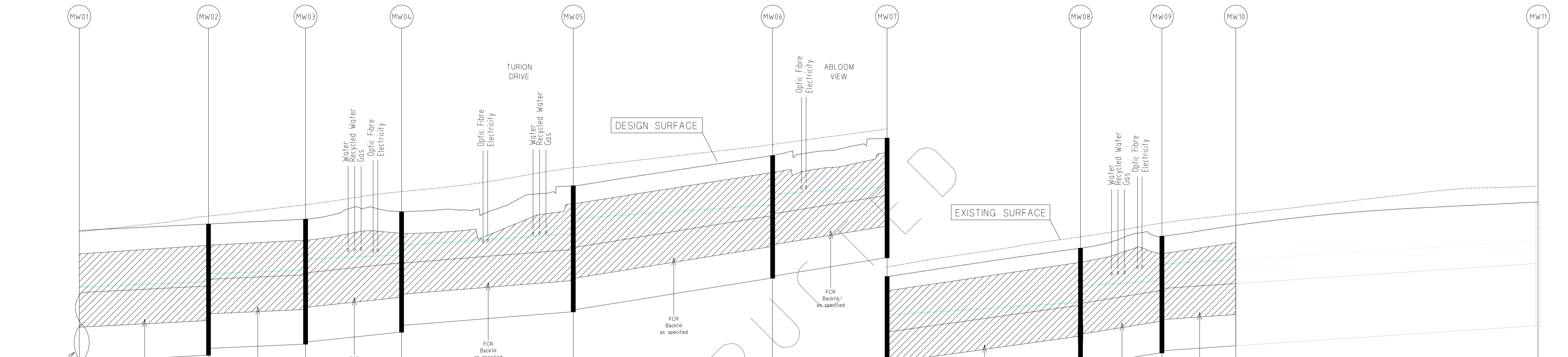
MELBOURNE
The Melbourne Suite 2
250 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9697 8000
Fax: (03) 9697 8099

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

PLAN NUMBER
36182/3B
R18

ARNICA LANE
LONGITUDINAL & CROSS SECTIONS

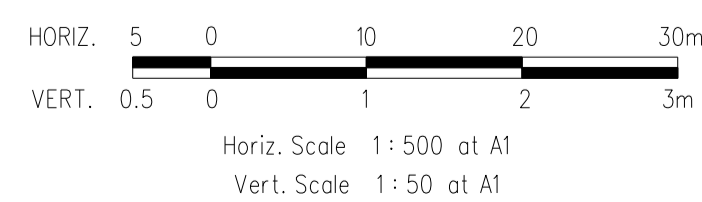
REVISION N
SHEET 18 OF 27



	MW01	MW02	MW03	MW04	MW05	MW06	MW07	MW08	MW09	MW10	MW11
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		245.220 245.388	245.505 245.675	245.754 245.999	246.078 246.293	246.543 246.876	247.164 247.401	247.557 247.782	248.049 248.411	248.524 248.887	249.386 249.605
H.G.L. LEVELS		243.720 243.770	243.910 244.060	244.150 244.200	244.410 244.560	244.850 244.900	245.580 245.630	246.020 246.070	246.640 246.690	246.960 247.010	247.550 247.605
INVERT LEVELS		243.720 243.770	243.910 244.060	244.150 244.200	244.410 244.560	244.850 244.900	245.580 245.630	246.020 246.070	246.640 246.690	246.960 247.010	247.550 247.605
FINISHED SURFACE LEVELS		246.615	246.755	246.860	247.020	247.582	248.239	248.616	249.230	249.489	250.615
CHAINAGE (LENGTH)	0.000	28.000	49.025	69.835	107.040	150.240	175.040	216.954	234.601	250.615	316.094

DRAINAGE LONGITUDINAL SECTIONS

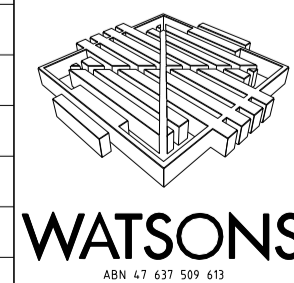
NOTE:
LOCATION OF GAS, WATER,
TELSTRA & ELECTRICITY
SERVICES INDICATIVE ONLY



REVISIONS			SCALE:
DATE	DETAILS	AUTHORISED	AS SHOWN
14/02/14	N	AS CONSTRUCTED	ASC
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	ASC

DATE PRINTED: 14/02/2014
LEVEL DATA: K:\36182\36182\LT00
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

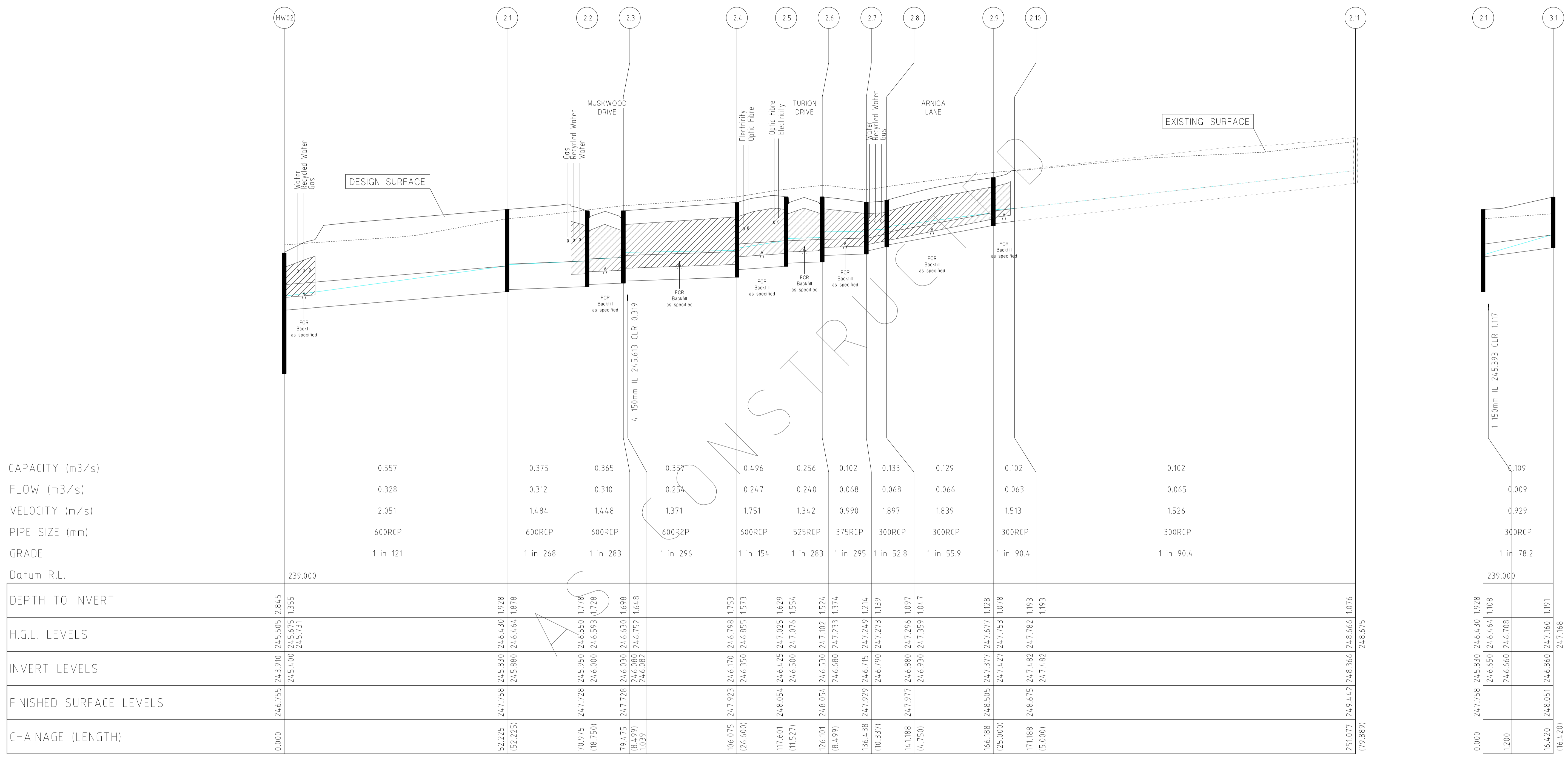
FILENAME k:\36182\36182\3b\dgn\r19.dgn



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

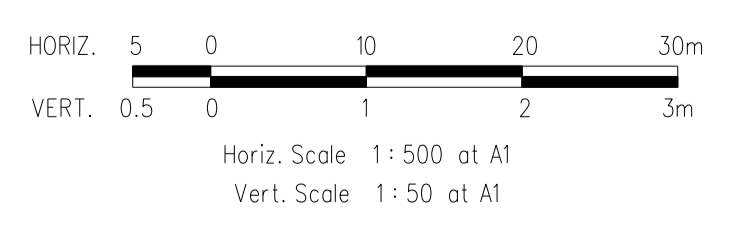
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R 19
DRAINAGE LONGITUDINAL SECTION		REVISION N
		SHEET 19 OF 27



CAPACITY (m3/s)
FLOW (m3/s)
VELOCITY (m/s)
PIPE SIZE (mm)
GRADE
Datum R.L.

DRAINAGE LONGITUDINAL SECTIONS

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



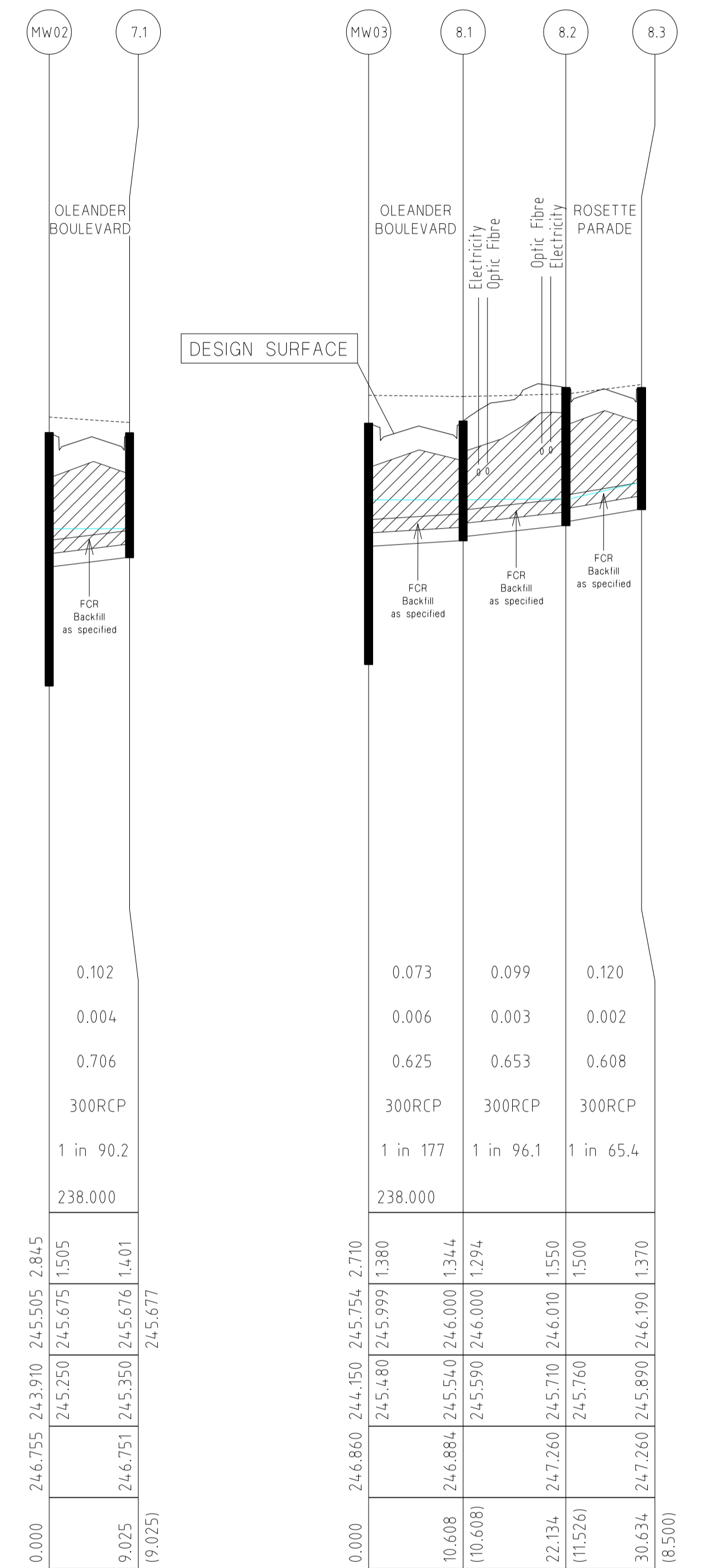
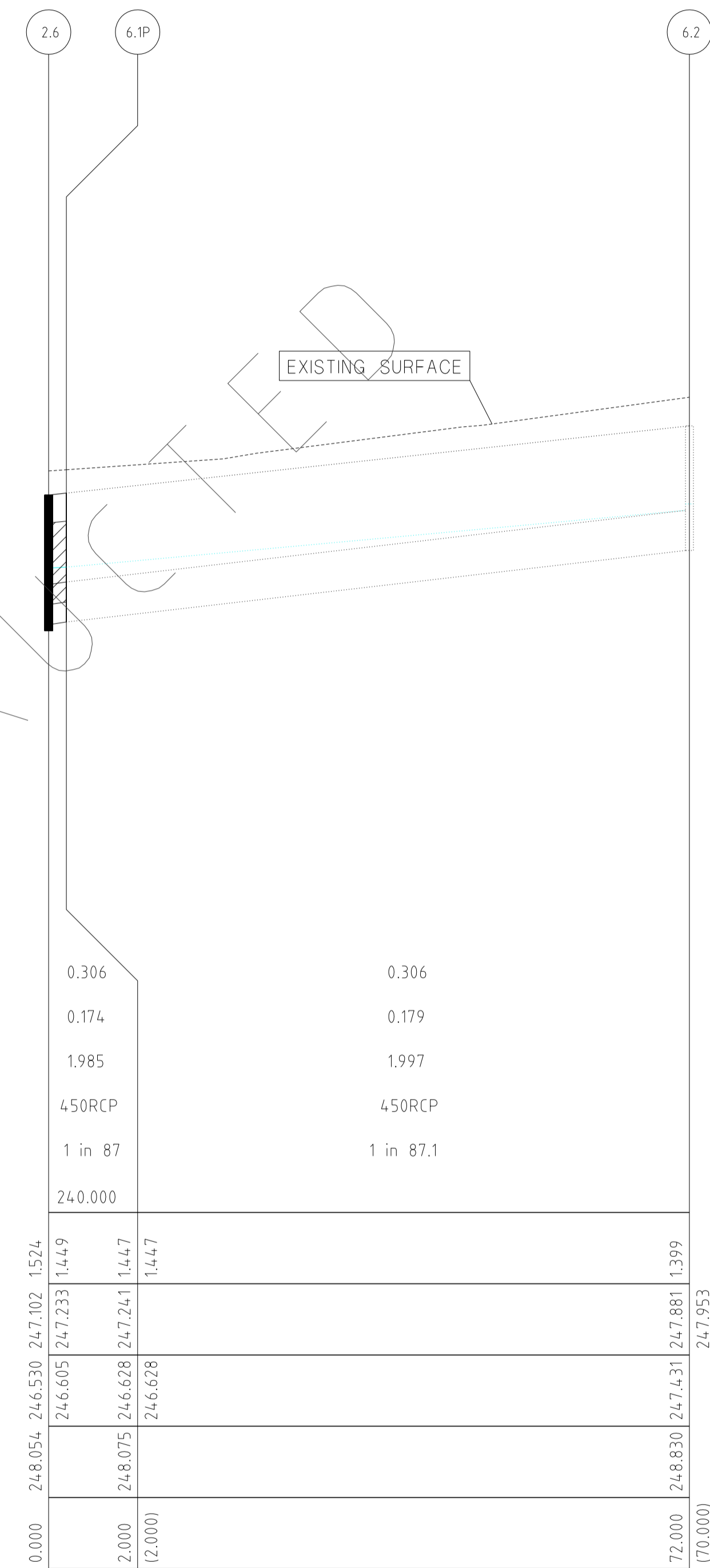
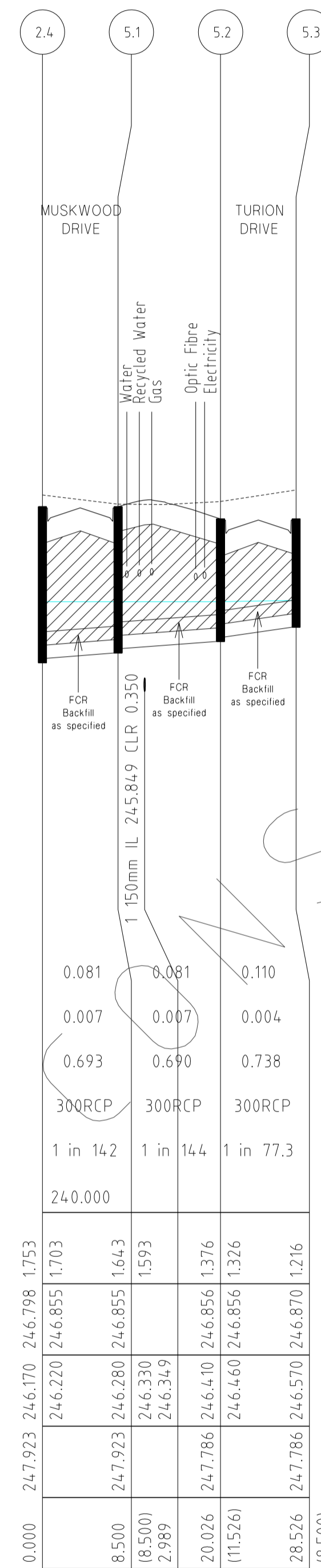
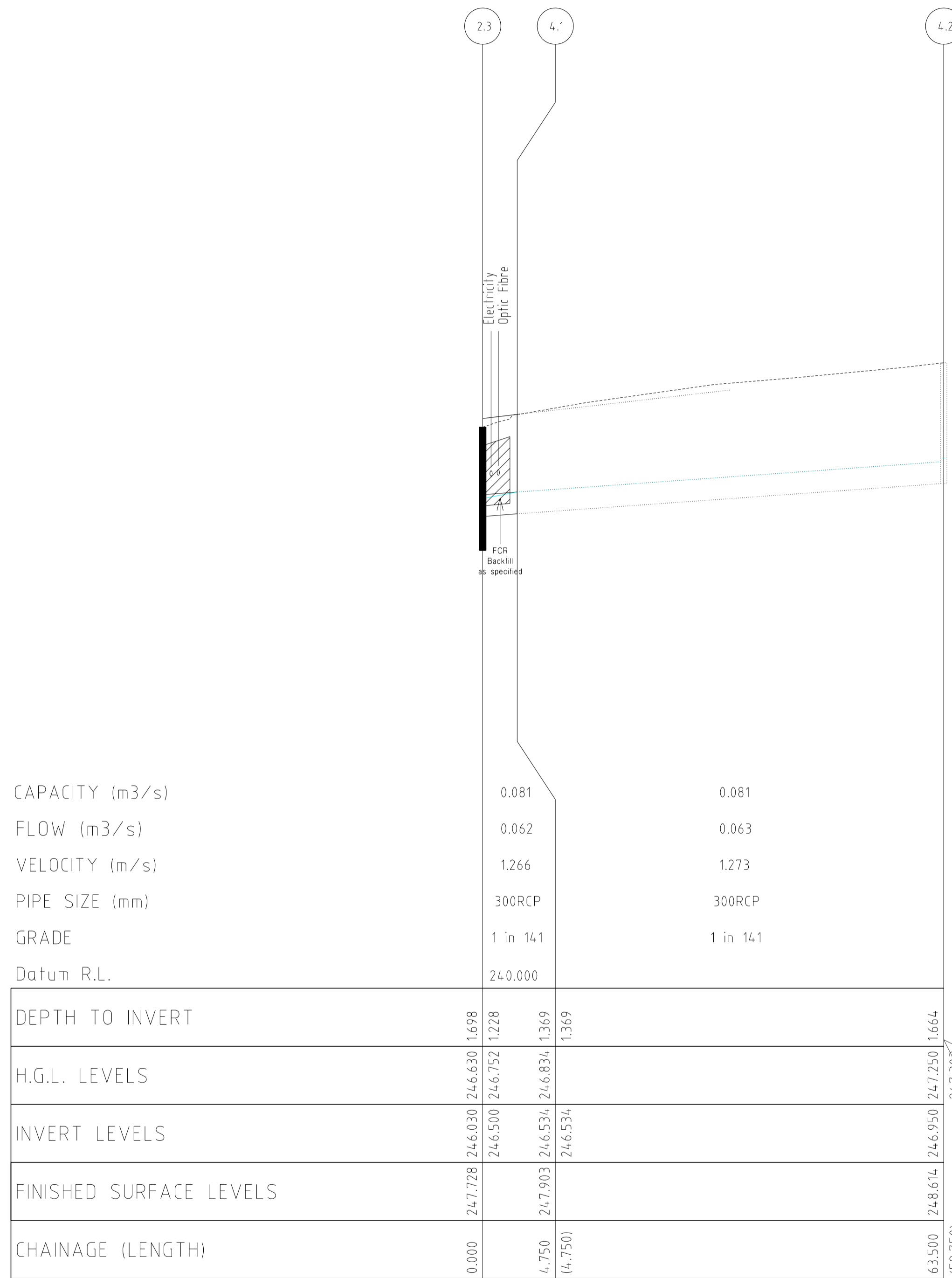
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LT00
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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\r20 .dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
15 Main Street
P.O. Box 111 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road
Melbourne, 3002
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 R20
DRAINAGE LONGITUDINAL SECTIONS		REVISION N
		SHEET 20 OF 27



CAPACITY (m3/s)
FLOW (m3/s)
VELOCITY (m/s)
PIPE SIZE (mm)
GRADE
Datum R.L.

DEPTH TO INVERT	247.728, 246.030, 246.630, 1.698, 246.500, 246.752, 1.228	247.250, 1.664, 247.305
H.G.L. LEVELS		
INVERT LEVELS	246.500, 246.752, 1.228	
FINISHED SURFACE LEVELS	247.728, 246.030, 246.630, 1.698, 246.500, 246.752, 1.228	
CHAINAGE (LENGTH)	0.000, 4.750, 14.750	63.500, 246.614, 158.750

CAPACITY (m3/s)
FLOW (m3/s)
VELOCITY (m/s)
PIPE SIZE (mm)
GRADE
Datum R.L.

DEPTH TO INVERT	246.220, 246.855, 1.703	246.280, 246.855, 1.643, 246.330, 246.349, 1.593	246.460, 246.856, 1.376, 246.460, 246.856, 1.326, 246.570, 246.870, 1.216, 18.500
H.G.L. LEVELS			
INVERT LEVELS	246.220, 246.855, 1.703	246.280, 246.855, 1.643, 246.330, 246.349, 1.593	246.460, 246.856, 1.376, 246.460, 246.856, 1.326, 246.570, 246.870, 1.216, 18.500
FINISHED SURFACE LEVELS	247.923, 246.170, 246.798, 1.753	247.923, 246.280, 246.855, 1.643, 246.330, 246.349, 1.593, 247.786, 246.410, 246.856, 1.376, 247.786, 246.460, 246.856, 1.326, 247.786, 246.570, 246.870, 1.216, 18.500	
CHAINAGE (LENGTH)	0.000	8.500, 18.500, 2.989	20.026, 111.526, 28.526, 18.500

CAPACITY (m3/s)
FLOW (m3/s)
VELOCITY (m/s)
PIPE SIZE (mm)
GRADE
Datum R.L.

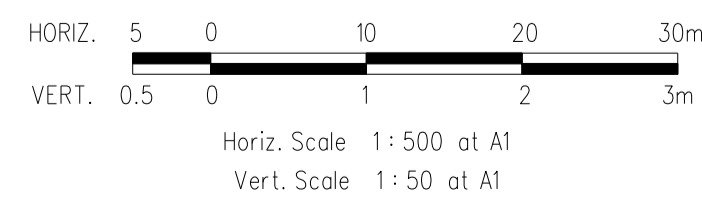
DEPTH TO INVERT	246.054, 246.530, 247.102, 1.524, 246.605, 247.233, 1.449	247.431, 247.881, 1.399, 247.953
H.G.L. LEVELS		
INVERT LEVELS	246.605, 247.233, 1.449	
FINISHED SURFACE LEVELS	248.075, 246.628, 247.241, 1.447, 246.628, 247.241, 1.447	
CHAINAGE (LENGTH)	0.000, 2.000, 12.000	72.000, 246.830, 247.431, 247.881, 1.399, 170.000

CAPACITY (m3/s)
FLOW (m3/s)
VELOCITY (m/s)
PIPE SIZE (mm)
GRADE
Datum R.L.

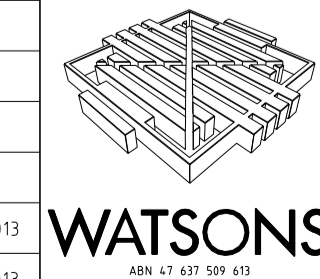
DEPTH TO INVERT	245.250, 245.675, 1.505, 245.480, 245.999, 1.380	244.150, 245.754, 2.710, 245.480, 245.999, 1.380	245.540, 246.000, 1.344, 245.590, 246.000, 1.294	245.710, 246.000, 1.550, 245.760, 1.500, 247.260, 245.890, 246.190, 1.370, 18.500
H.G.L. LEVELS				
INVERT LEVELS	245.250, 245.675, 1.505	245.480, 245.999, 1.380	245.540, 246.000, 1.344, 245.590, 246.000, 1.294	245.710, 246.000, 1.550, 245.760, 1.500, 247.260, 245.890, 246.190, 1.370, 18.500
FINISHED SURFACE LEVELS	246.755, 243.910, 245.505, 2.845, 245.250, 245.675, 1.505	246.860, 244.150, 245.754, 2.710, 245.480, 245.999, 1.380	246.884, 245.540, 246.000, 1.344, 246.751, 245.350, 245.676, 1.401, 245.677	247.260, 245.710, 246.000, 1.550, 245.760, 1.500, 247.260, 245.890, 246.190, 1.370, 18.500
CHAINAGE (LENGTH)	0.000, 9.025, 19.025	0.000, 10.608, 110.608	22.134, 111.526, 30.634	

DRAINAGE LONGITUDINAL SECTIONS

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



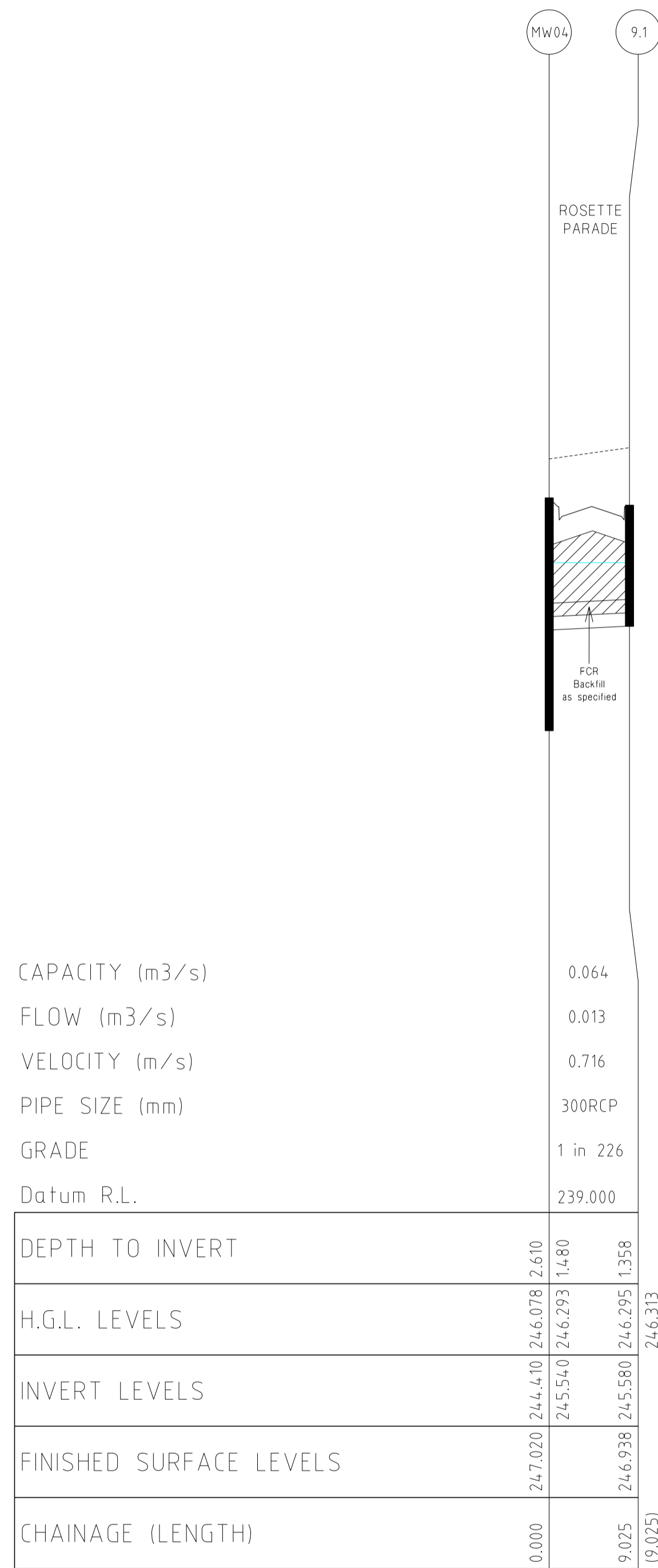
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\1\TOPO
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	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\r21.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
15 Main Street,
P.O. Box 111 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3936
DX: 93118 Mornington

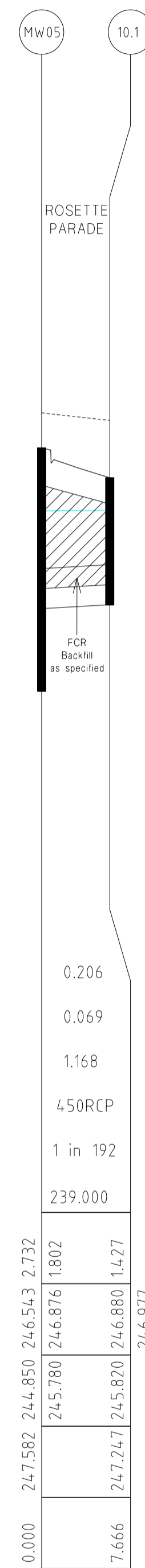
MELBOURNE
The Melbourne Suite 2
250 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9697 8000
Fax: (03) 9697 8099

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



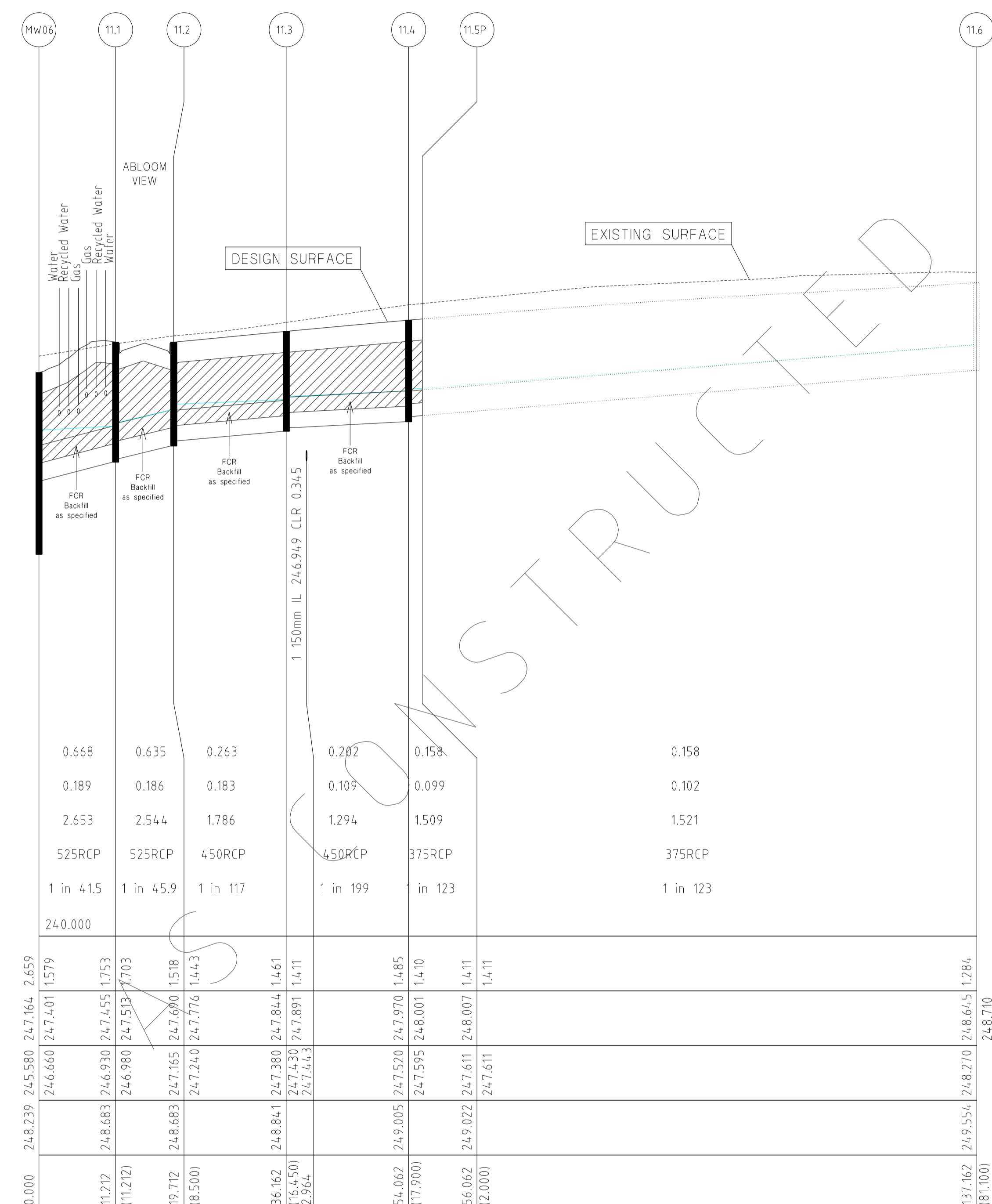
CAPACITY (m3/s)	0.064
FLOW (m3/s)	0.013
VELOCITY (m/s)	0.716
PIPE SIZE (mm)	300RCP
GRADE	1 in 226
Datum R.L.	239.000

DEPTH TO INVERT	246.078	2.610		
H.G.L. LEVELS	244.410	246.078	2.610	
INVERT LEVELS	245.540	246.293	1.480	
FINISHED SURFACE LEVELS	247.020	246.938	246.295	1.358
CHAINAGE (LENGTH)	0.000	9.025	246.313	(9.025)



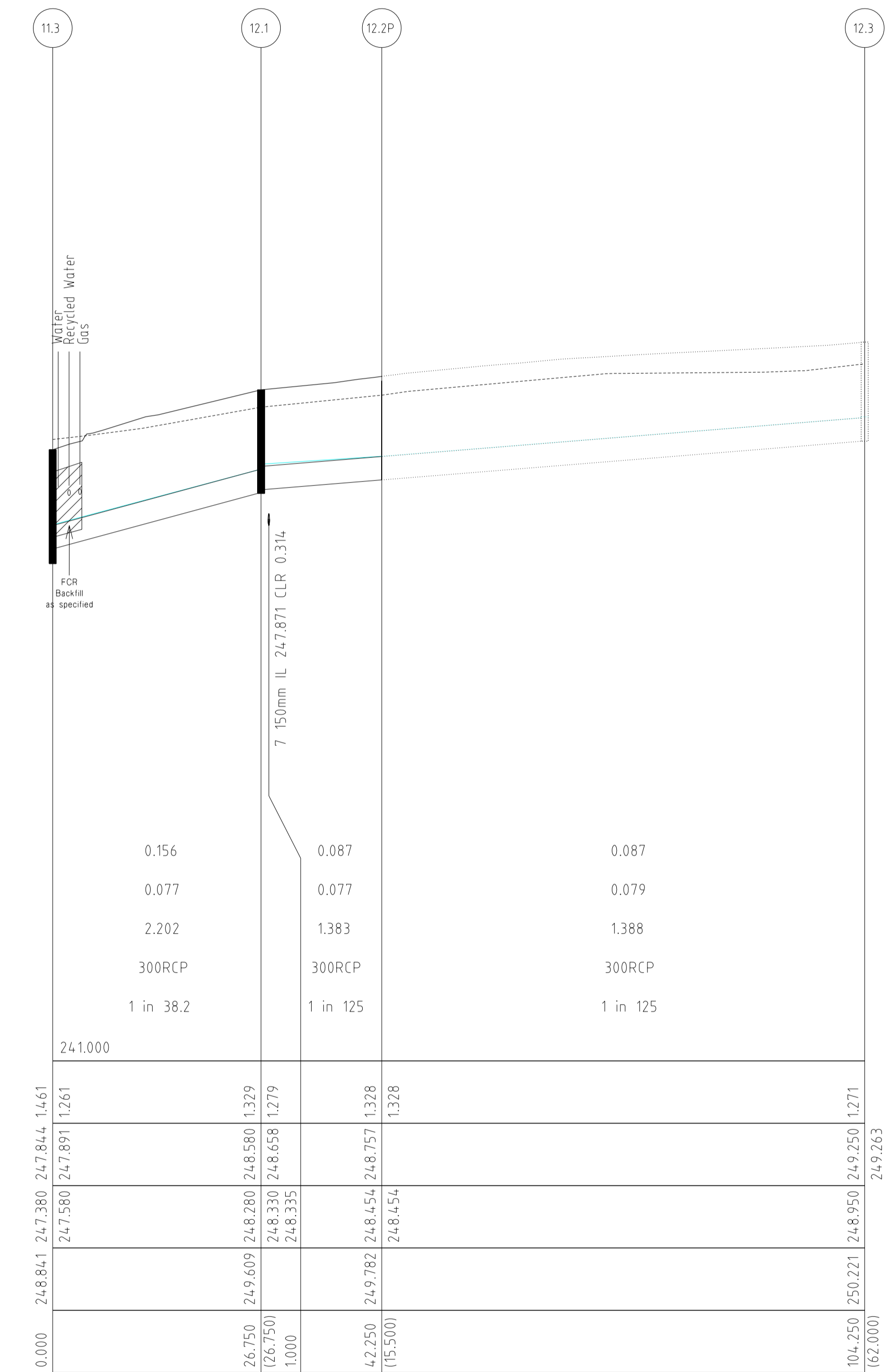
CAPACITY (m3/s)	0.206
FLOW (m3/s)	0.069
VELOCITY (m/s)	1.168
PIPE SIZE (mm)	450RCP
GRADE	1 in 192
Datum R.L.	239.000

DEPTH TO INVERT	246.876	1.802		
H.G.L. LEVELS	244.850	246.543	2.732	
INVERT LEVELS	245.780	246.876	1.802	
FINISHED SURFACE LEVELS	247.247	245.820	246.880	1.427
CHAINAGE (LENGTH)	0.000	7.666	246.977	



CAPACITY (m3/s)	0.668	0.635	0.263	0.202	0.158	0.158
FLOW (m3/s)	0.189	0.186	0.183	0.109	0.099	0.102
VELOCITY (m/s)	2.653	2.544	1.786	1.294	1.509	1.521
PIPE SIZE (mm)	525RCP	525RCP	450RCP	450RCP	375RCP	375RCP
GRADE	1 in 41.5	1 in 45.9	1 in 117	1 in 199	1 in 123	1 in 123
Datum R.L.	240.000	240.000	240.000	240.000	240.000	240.000

DEPTH TO INVERT	247.164	2.659	247.844	1.461	247.844	1.461									
H.G.L. LEVELS	248.239	245.580	247.164	2.659	247.844	1.461									
INVERT LEVELS	246.660	247.401	1.579	247.455	1.753	247.533	1.703								
FINISHED SURFACE LEVELS	248.683	246.930	247.455	1.753	247.533	1.703	247.680	1.518							
CHAINAGE (LENGTH)	0.000	11.212	11.212	19.712	18.500	36.162	16.150	2.964	54.062	17.900	56.062	2.000	137.162	181.000	248.710

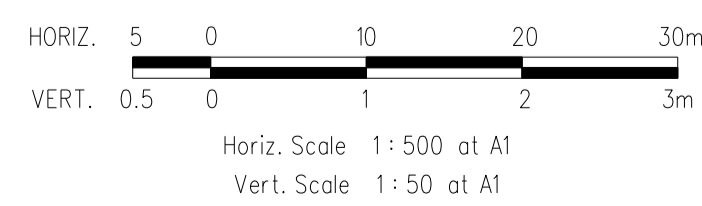


CAPACITY (m3/s)	0.156	0.087	0.087
FLOW (m3/s)	0.077	0.077	0.079
VELOCITY (m/s)	2.202	1.383	1.388
PIPE SIZE (mm)	300RCP	300RCP	300RCP
GRADE	1 in 38.2	1 in 125	1 in 125
Datum R.L.	241.000	241.000	241.000

DEPTH TO INVERT	247.844	1.461	247.844	1.461														
H.G.L. LEVELS	247.380	247.844	1.461	247.844	1.461													
INVERT LEVELS	247.580	247.891	1.261	248.280	1.329	248.330	1.279	248.335										
FINISHED SURFACE LEVELS	248.841	247.380	247.844	1.461	248.280	1.329	248.330	1.279	248.335	248.454	1.328	248.454	1.328	250.221	248.950	249.250	1.271	249.263

DRAINAGE LONGITUDINAL SECTIONS

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



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\r22 .dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



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

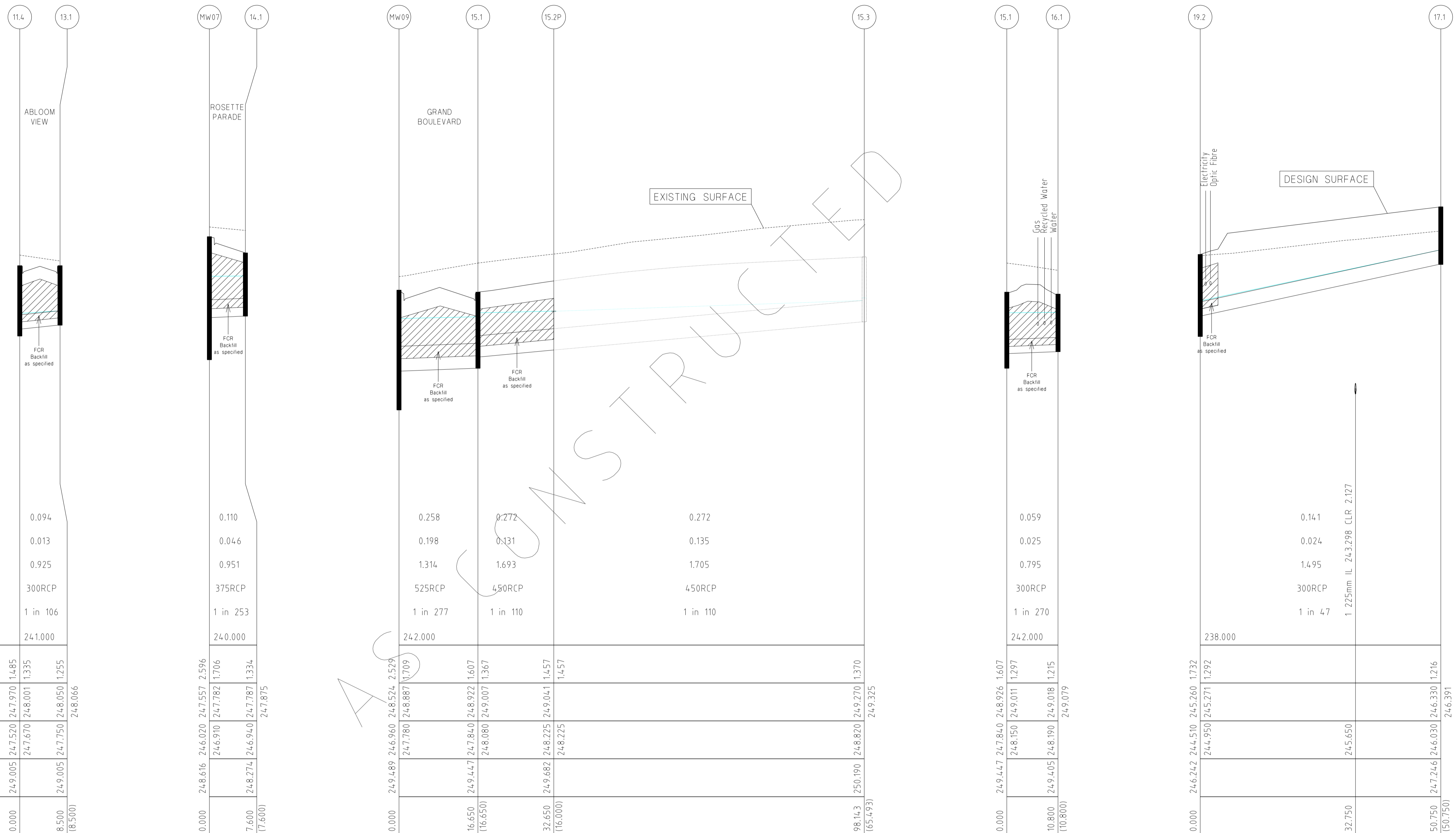
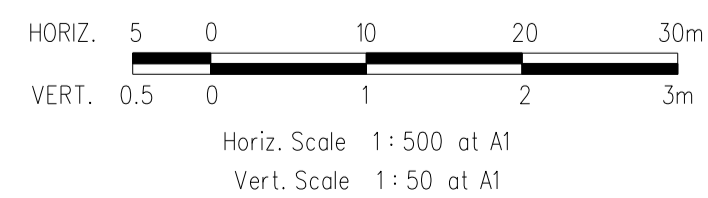
MELBOURNE
The Melbourne Suite 2
126 St. Kilda Road
Melbourne, 3004
Phone: (03) 9697 8000
Fax: (03) 9697 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R22
DRAINAGE LONGITUDINAL SECTIONS		REVISION N
		SHEET 22 OF 27

CAPACITY (m3/s)	0.094
FLOW (m3/s)	0.013
VELOCITY (m/s)	0.925
PIPE SIZE (mm)	300RCP
GRADE	1 in 106
Datum R.L.	241.000
DEPTH TO INVERT	1.485 1.335
H.G.L. LEVELS	247.970 248.001 248.050
INVERT LEVELS	247.520 247.670 247.750
FINISHED SURFACE LEVELS	249.005 249.005
CHAINAGE (LENGTH)	0.000 8.500 18.500

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	LEVEL DATA:	K:\36182\36182\LTPO
22/01/14	M	PARK PATHWAY AMENDMENTS	DATUM:	AHD
07/10/13	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\r23.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
15 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

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
		SHEET 23 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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

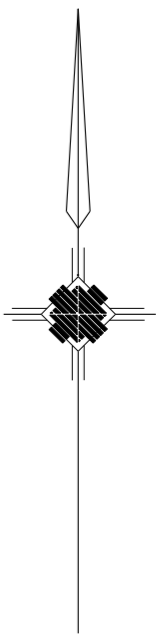
REVISIONS			SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LT00
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
07/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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\25.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



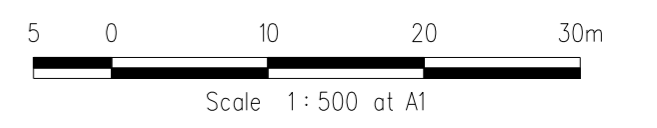
MORNINGTON
5 Main Street
P.O. Box 171 3911
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 93118 Mornington

MELBOURNE
The Melbourne Suite 2
326 St. Kilda Road
Melbourne, 3002
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 R 25
PIT SCHEDULE		REVISION N
		SHEET 25 OF 27



LINEMARKING PLAN



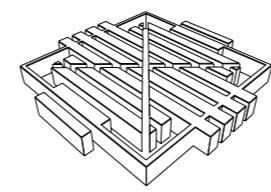
PLAN I.D.	PICTORIAL	CODE No.
-----------	-----------	----------

#1  STREET SIGN

#2  R1-2A



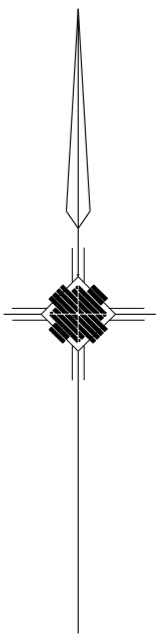
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\1\TOPO
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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\R26.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



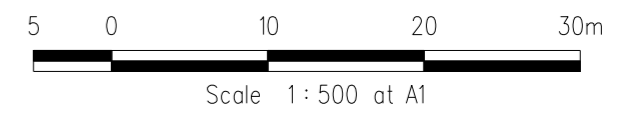
MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 93188 Mornington

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

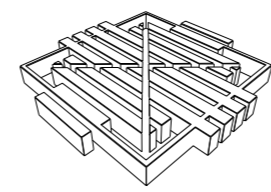
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R26
LINEMARKING & SIGNAGE PLAN		REVISION N
		SHEET 26 OF 27



PARKING PLAN



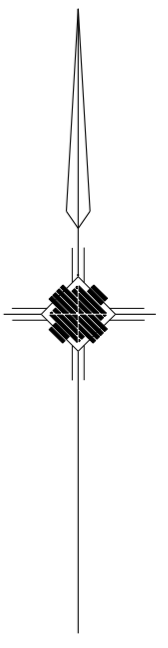
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\1\TOPO
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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\R26A.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



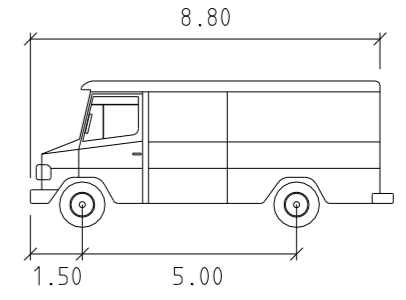
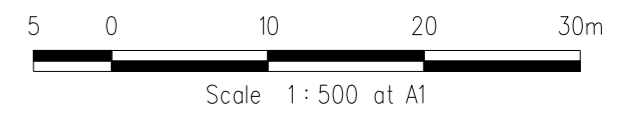
MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 9318 Mornington

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 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



CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CLASS 3 CRUSHED 10.5m RADIUS FOR SERVICE VEHICLES
POST AND WIRE FENCE TO PREVENT ACCESS

RUSHED PAVEMENT FOR TRUCKS
FENCE ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

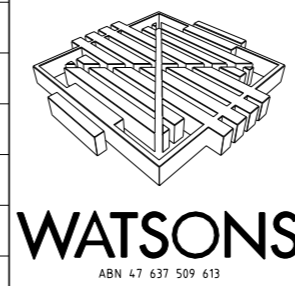
TEMPORARY TURNING CIRCLE TO BE GRADED TO THE SOUTH AT A MINIMUM OF 1 IN 200. THIS IS TO BE CONSTRUCTED TO MATCH INTO EXISTING SURFACE AT THE SOUTHERN END TO ENSURE THE ROAD GRADES OUT ALLOWING FREEFLOWING SURFACE RUNOFF.

ROCK BEACHING & TRANSITIONING ARC AS EROSION PROTECTION

FENCE TO BE INSTALLED AROUND TEMPORARY OUTFALL AND ONLINE SEDIMENT POND

ROCK BEACHING & TRANSITIONING ARC AS EROSION PROTECTION

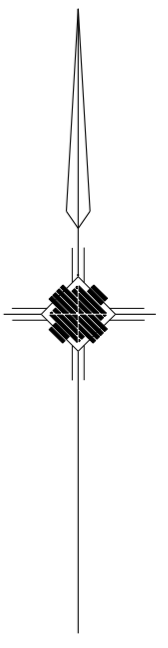
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K\36182\36182\1\TOPO
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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\R26B.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



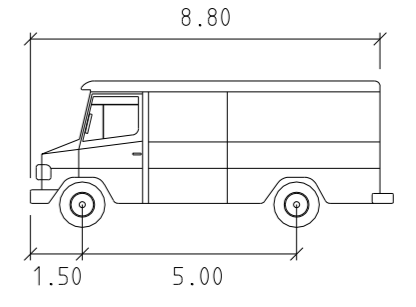
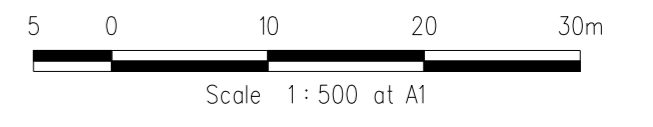
MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 93188 Mornington

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

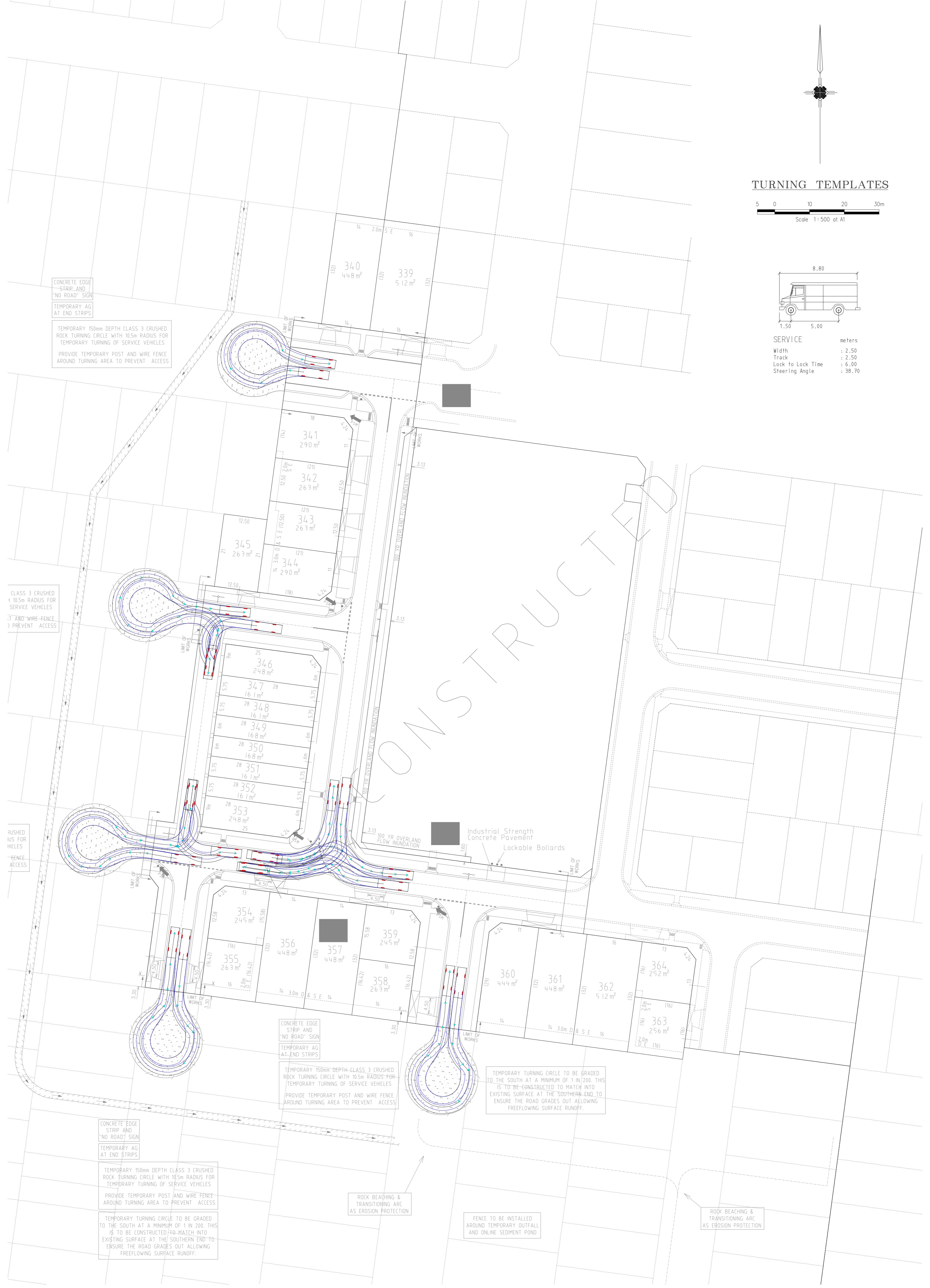
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R26B
TURNING TEMPLATES		REVISION N
		SHEET 26B OF 27



TURNING TEMPLATES



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



CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CLASS 3 CRUSHED 10.5m RADIUS FOR SERVICE VEHICLES
POST AND WIRE FENCE TO PREVENT ACCESS

RUSHED PAVEMENT FOR VEHICLES
FENCE ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

TEMPORARY TURNING CIRCLE TO BE GRADED TO THE SOUTH AT A MINIMUM OF 1 IN 200. THIS IS TO BE CONSTRUCTED TO MATCH INTO EXISTING SURFACE AT THE SOUTHERN END TO ENSURE THE ROAD GRADES OUT ALLOWING FREEFLOWING SURFACE RUNOFF.

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

TEMPORARY TURNING CIRCLE TO BE GRADED TO THE SOUTH AT A MINIMUM OF 1 IN 200. THIS IS TO BE CONSTRUCTED TO MATCH INTO EXISTING SURFACE AT THE SOUTHERN END TO ENSURE THE ROAD GRADES OUT ALLOWING FREEFLOWING SURFACE RUNOFF.

ROCK BEACHING & TRANSITIONING ARC AS EROSION PROTECTION

FENCE TO BE INSTALLED AROUND TEMPORARY OUTFALL AND ONLINE SEDIMENT POND

ROCK BEACHING & TRANSITIONING ARC AS EROSION PROTECTION

REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K\36182\36182\1\TOPO
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\R26C.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



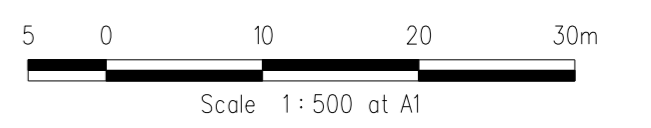
MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 9318 Mornington

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 R26C
TURNING TEMPLATES		REVISION N
		SHEET 26C OF 27



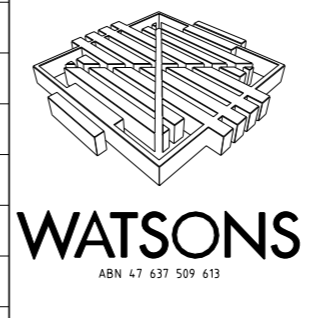
EARTHWORKS PLAN



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



MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DK 93188 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

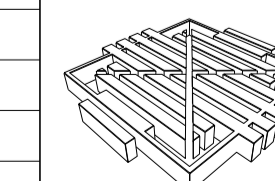
SHEET INDEX

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
9	GRAND BOULEVARD CROSS SECTIONS
10	ROSETTE PARADE LONGITUDINAL & CROSS SECTIONS
11-13	ROSETTE PARADE CROSS SECTIONS
14	ABLOOM VIEW LONGITUDINAL & CROSS SECTIONS
15	TURION DRIVE LONGITUDINAL & CROSS SECTIONS
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:	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\R01.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



WATSONS
MHN 41 431 501 410

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
326 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9697 8000
Fax: (03) 9697 8099

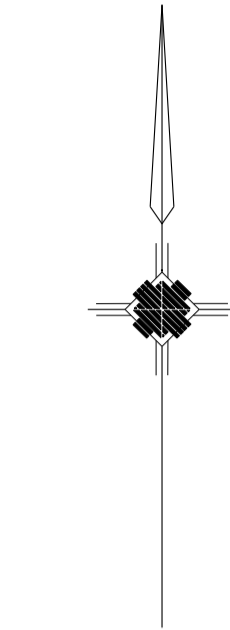
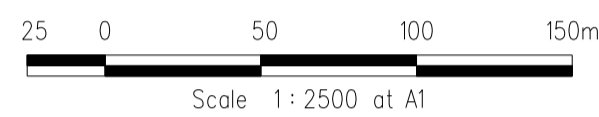
HUME CITY COUNCIL
VILLAWOOD PROPERTIES P/L
TRILLIUM STAGE 3B
MICKLEHAM
ROAD AND DRAINAGE PLANS

PLAN NUMBER
36182/3B
R01

LOCALITY PLAN, SHEET INDEX
& GENERAL NOTES

REVISION N
SHEET 1 OF 27

LOCALITY PLAN



AS CONSTRUCTED

HUME CITY COUNCIL NOTES

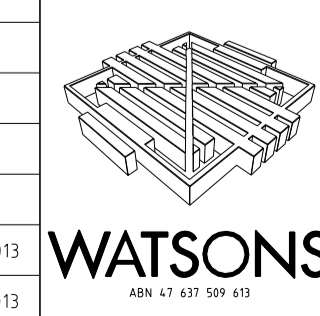
- 1 ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- 2 COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT 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
- 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
- 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
- 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
- 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
- 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
- 8 ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
- 9 ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD)
- 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
- 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
- 12 FILLING TO COMPLY WITH A S 3798-1996 APPENDIX B, LEVEL 1 (OR 2) AS SPECIFIED
- 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
- 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
- 15 NO TREE OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCIL'S SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE
- 16 BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA
- 17 THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT
- 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
- 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
- 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
- 21 ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED
- 22 ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SANDBLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED

- 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
- 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
- 25 WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY
- 26 ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE
- 27 ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- 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
- 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
- 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
- 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
- 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
- 33 AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS
- 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
- 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
- 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
- 37 ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A S 1743-2001
- 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
- 39 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.0m FROM THE LOW SIDE TITLE BOUNDARY AND PROPERTY INLETS 1.0m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN
- 40 BLASTING GENERALLY IS NOT ENCOURAGED, HOWEVER BLASTING MAY BE REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS 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

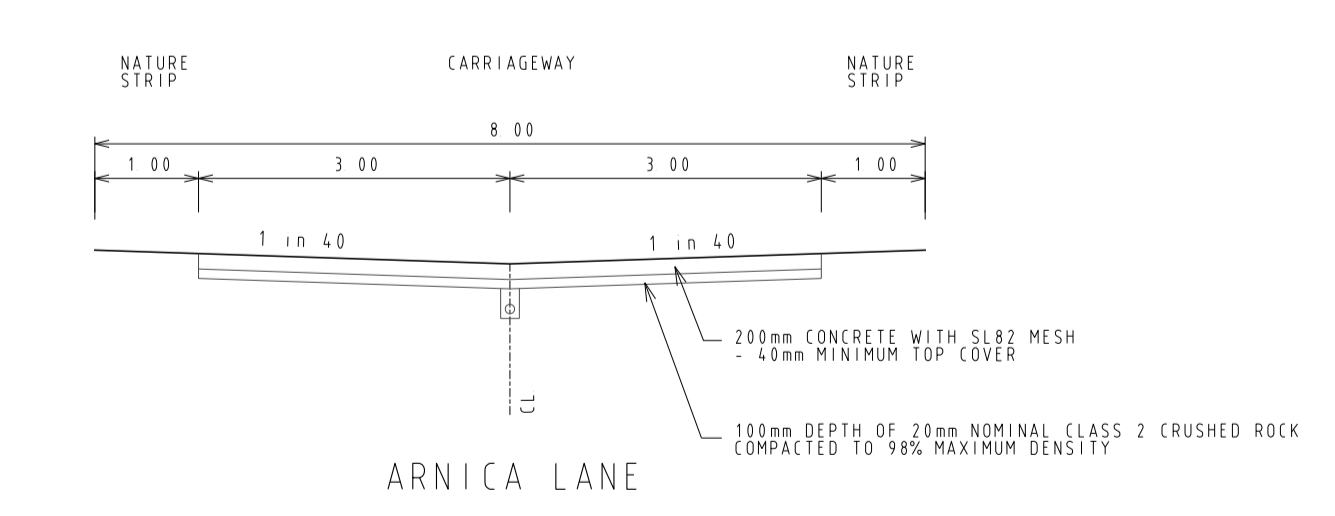
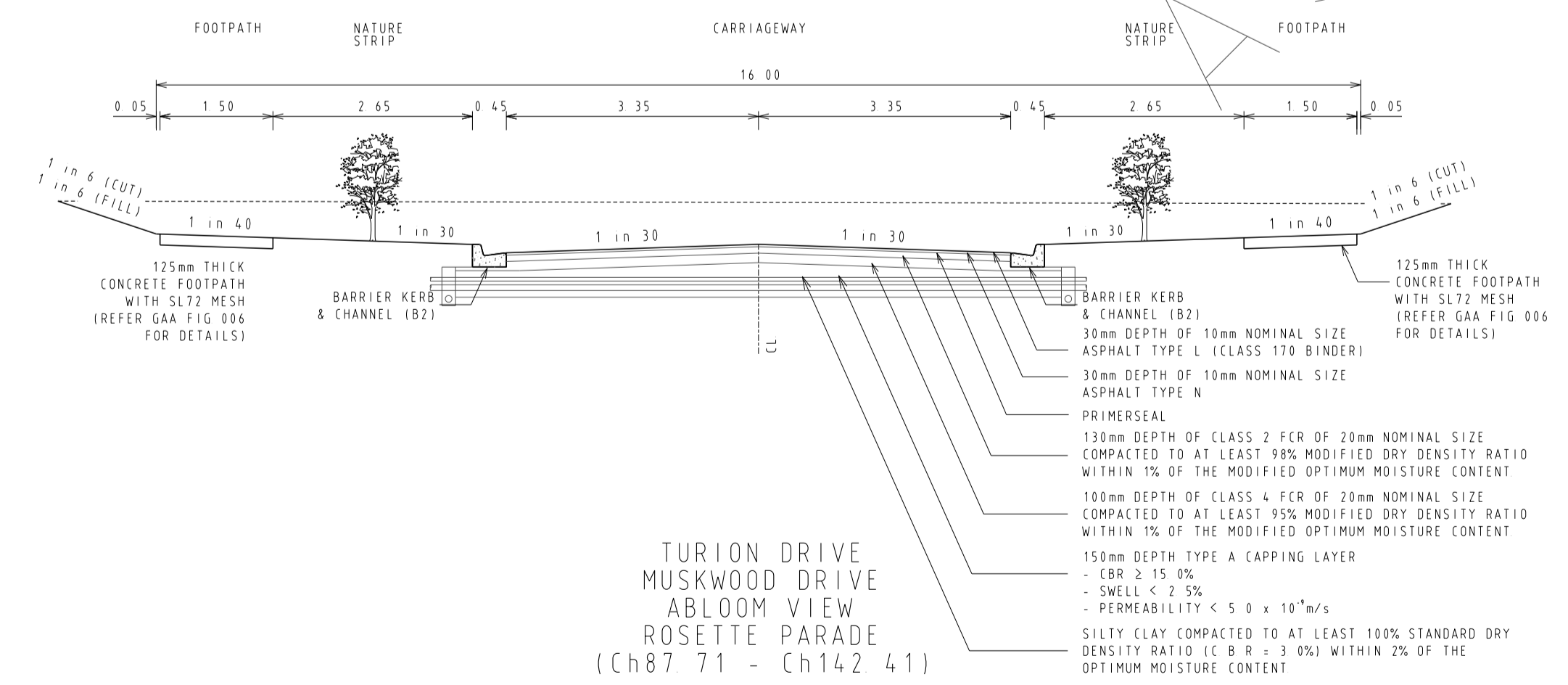
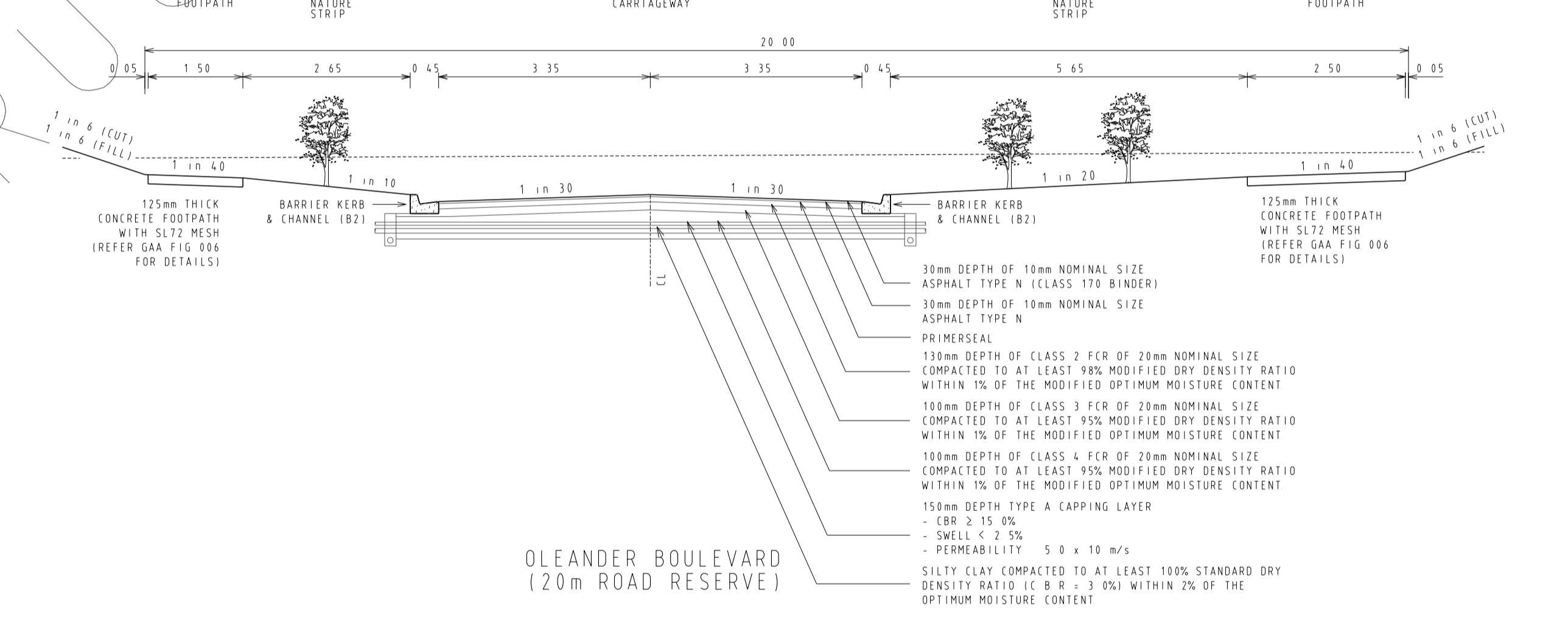
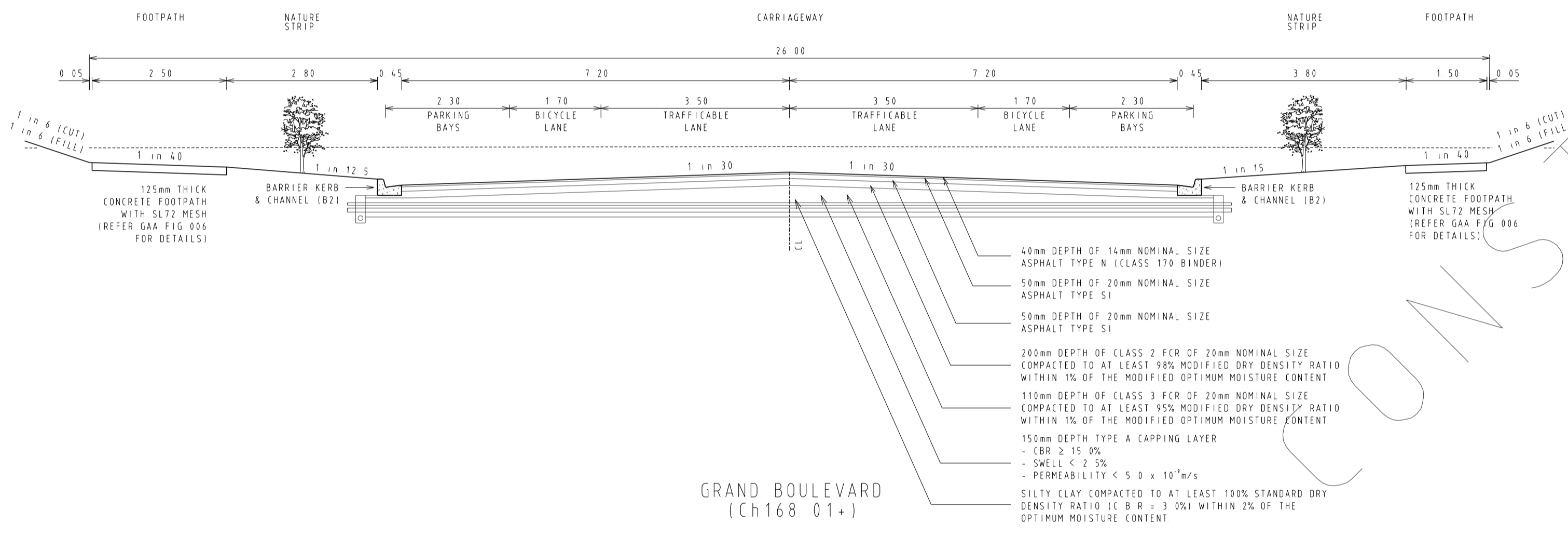
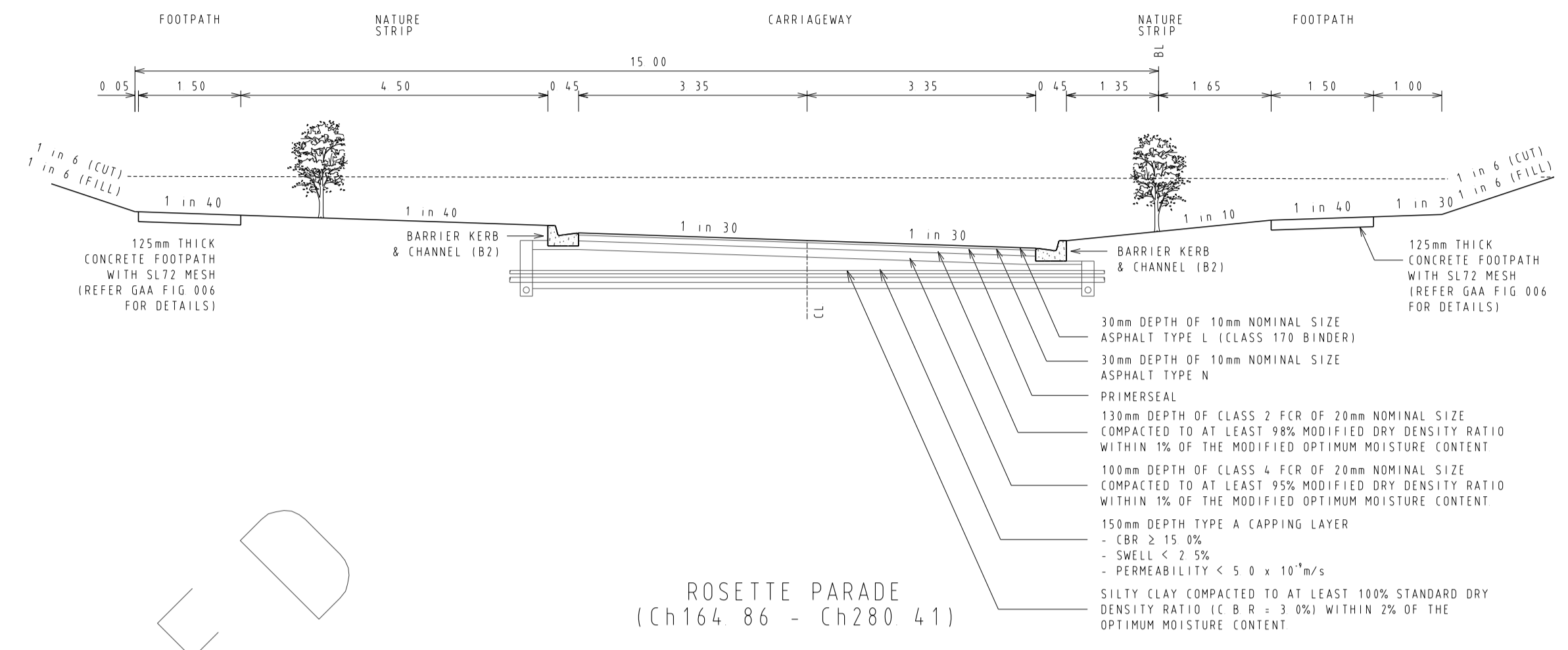
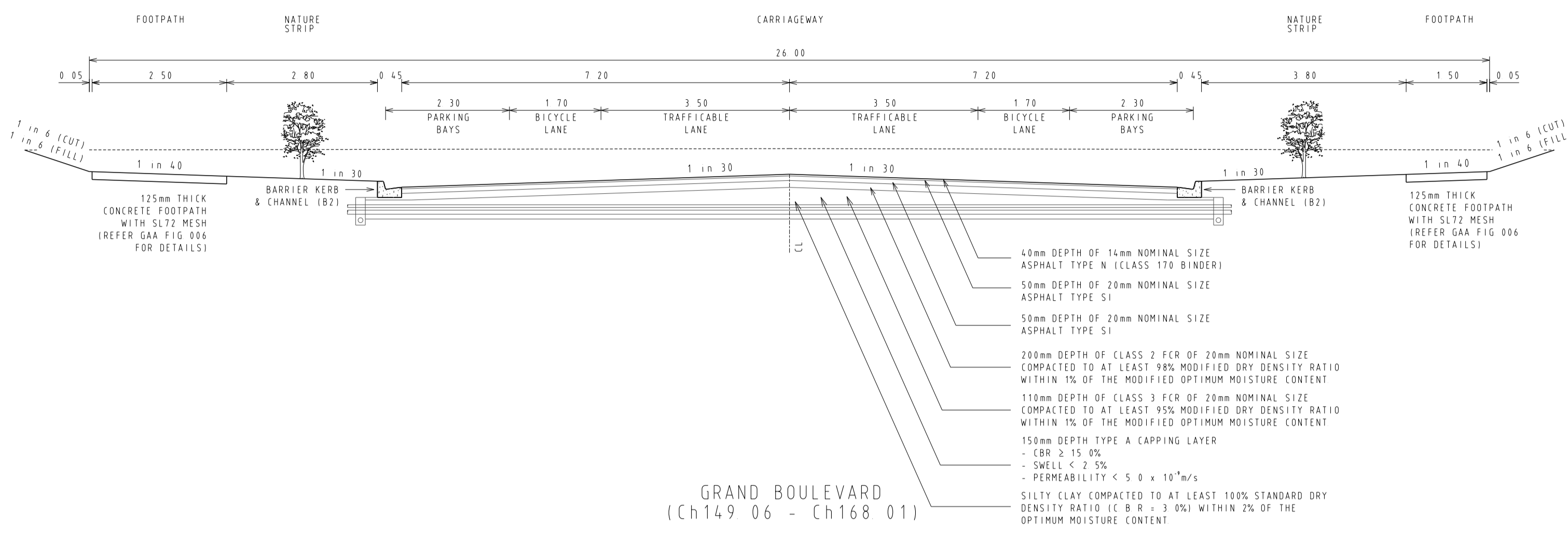
SITE SPECIFIC NOTES

- 1 ALL CONSTRUCTION TRAFFIC, STORAGE AND COMPOUNDS ARE TO BE LIMITED TO THE SITE OF WORKS. THE FUTURE STAGE AREA IS TO BE KEPT UNDISTURBED, EXCEPT FOR SPECIFIC WORKS
- 2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE SILTATION CONTROL DURING THE CONSTRUCTION AND MAINTENANCE PERIODS
- 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 ALL SERVICES TRENCHES UNDER PAVEMENT WORKS ARE TO BE BACKFILLED WITH FCR AS SPECIFIED
- 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 AG DRAIN TO BE CONSTRUCTED BEHIND ALL KERB AND CHANNEL
- 7 ALL DRAINAGE PIPES GREATER THAN 150mm TO BE R R J CLASS 2 (UNO)
- 8 ACCESS TO EXISTING RESIDENCE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION
- 9 ALL DRAINAGE LINES UNDER PAVEMENTS, PARKING BAYS, ETC AND WHERE TRENCH IS WITHIN 150mm OF BACK OF KERB ARE TO BE BACKFILLED WITH FCR AS SPECIFIED
- 10 APPROPRIATE INSPECTIONS SHALL BE ORGANISED WITH HUME CITY COUNCIL'S COUNCIL WORKS SUPERVISOR
- 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 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND BACKFILLING OF TRENCHING FOR RETICULATION ELECTRICITY AND COMMUNICATION CABLES, AND THE REMOVAL OF EXCESS SPOIL
- 13 MINIMUM FALL ON ALL LOTS TO BE 1 IN 150 LONGITUDINALLY
- 14 PAVEMENT DEPTH TO BE MODIFIED AS DIRECTED BY HUME CITY COUNCIL
- 15 USE OF ANY SOFT RIPPED ROCK IN ROAD PAVEMENT IS TO CONFORM TO SPECIFICATIONS FOR RIPPED ROCK
- 16 ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT HUME CITY COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF HUME CITY COUNCIL SUPERVISING ENGINEER
- 17 NO CUT OR FILL EXTENDS INTO BUILDING ENVELOPES, EXCEPT WHERE SHOWN
- 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 THE CONTRACTOR SHALL CONTACT TELSTRA'S NOMINATED REPRESENTATIVE, PETER FEBO (03) 9632 6384 FOR THE COORDINATION OF TELSTRA WORKS IN LAYING CONDUITS, AT LEAST 28 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF TELSTRA WORKS
- 20 TELSTRA AND ELECTRICITY CABLES ARE TO BE PLACED IN A SHARED TRENCH
- 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 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 FILLING AND THE LEVELS SHOWN ON THE 'AS-CONSTRUCTED' PLANS

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
07/10/13	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



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



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LOPO
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	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\3d\3d.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013

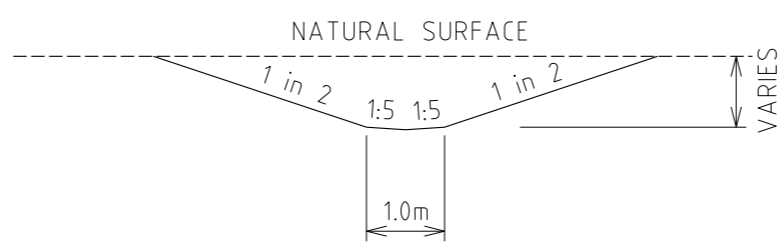


HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R03
TYPICAL PAVEMENT CROSS SECTIONS		REVISION N
		SHEET 3 OF 27

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



TEMPORARY OUTFALL DRAIN
(1 in 1000 LONGITUDINAL GRADE
DOWNSTREAM)
N.T.S.

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

**TEMPORARY CUT OFF DRAIN
TYPICAL SECTION**

NOT TO SCALE
NOTE: DRAIN TO FOLLOW GRADE OF EXISTING SURFACE & SHOULD NOT BE FLATTER THAN 1 IN 500.

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

TEMPORARY TURNING CIRCLE TO BE GRADED TO THE SOUTH AT A MINIMUM OF 1 IN 200. THIS IS TO BE CONSTRUCTED TO MATCH INTO EXISTING SURFACE AT THE SOUTHERN END TO ENSURE THE ROAD GRADES OUT ALLOWING FREEFLOWING SURFACE RUNOFF.

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

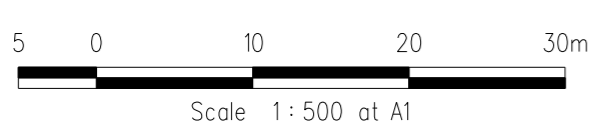
TEMPORARY TURNING CIRCLE TO BE GRADED TO THE SOUTH AT A MINIMUM OF 1 IN 200. THIS IS TO BE CONSTRUCTED TO MATCH INTO EXISTING SURFACE AT THE SOUTHERN END TO ENSURE THE ROAD GRADES OUT ALLOWING FREEFLOWING SURFACE RUNOFF.

ROCK BEACHING & TRANSITIONING ARC AS EROSION PROTECTION

FENCE TO BE INSTALLED AROUND TEMPORARY OUTFALL AND ONLINE SEDIMENT POND

ROCK BEACHING & TRANSITIONING ARC AS EROSION PROTECTION

DETAIL PLAN



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K\36182\36182\1\TOPO
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\R04.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



MORNINGTON
5 Main Street
P.O. Box 171 3911
Phone: (03) 5975 4444
Fax: (03) 5975 3916
24 93188 Mornington

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road
Melbourne, 3004
Phone: (03) 9647 8000
Fax: (03) 9647 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

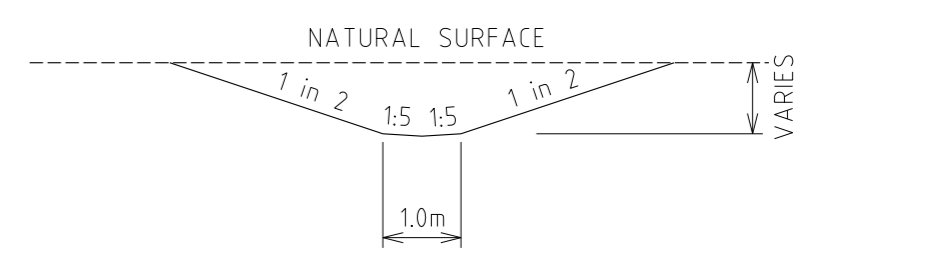
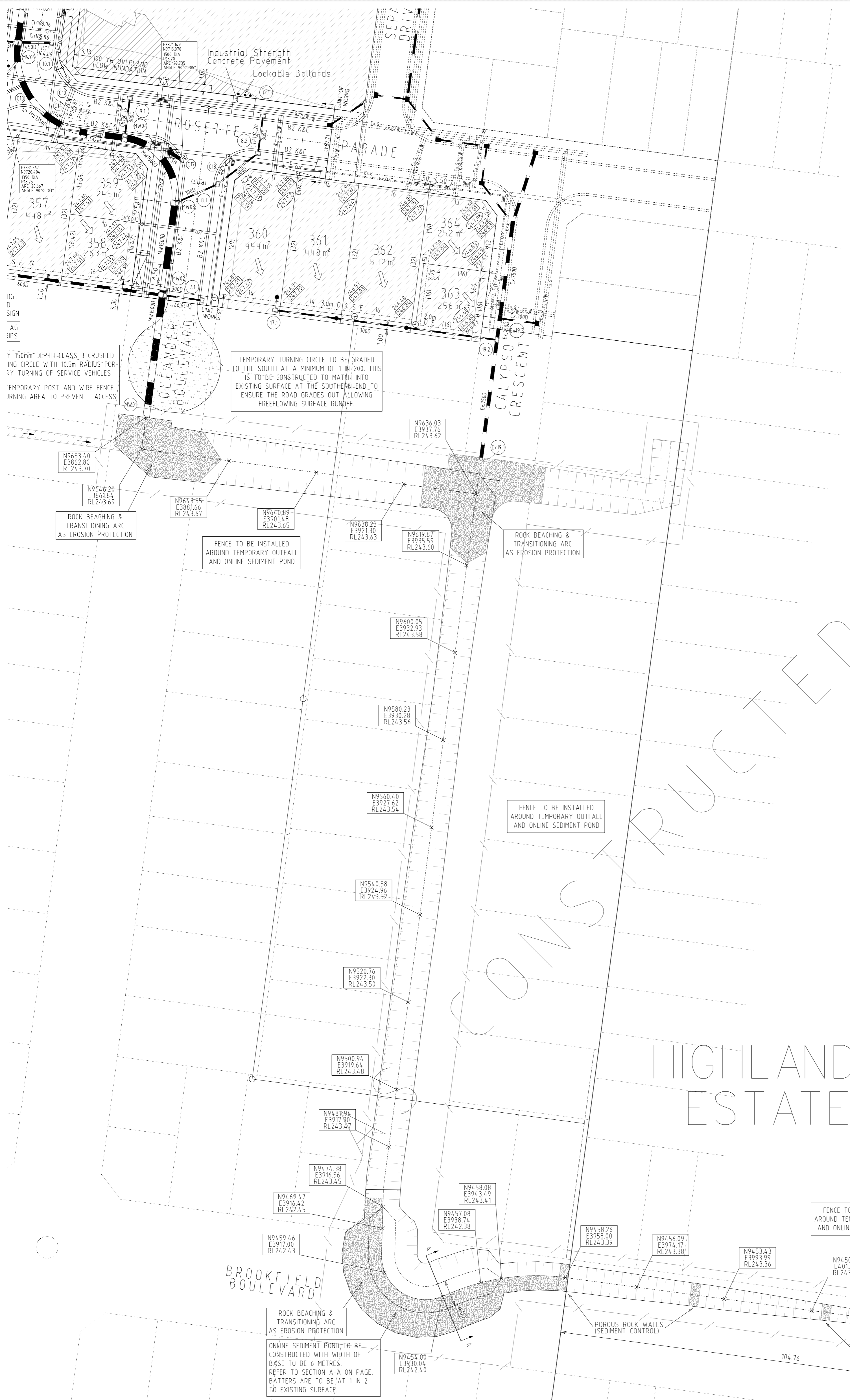
LEGEND

LEGEND

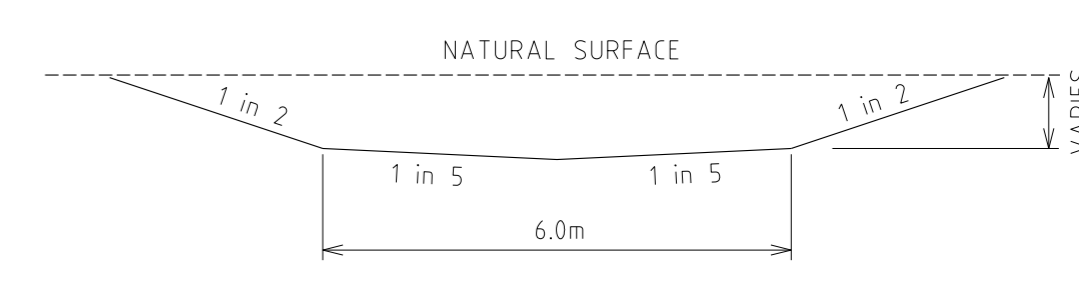
- Kerb & Channel
- Footpath, Vehicular Crossing Layback & House Drain
- Proposed Underground Drainage, Pit & Property Inlet
- Existing Underground Drainage, Pit & Property Inlet
- Drainage Pit Number
- Design Surface Level - Allotments
- Existing Surface Level - Allotments
- Top of Batter Level - Allotments (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:

- Symbols are proposed construction (UNO)
- Existing construction shown with broken lines



TEMPORARY OUTFALL DRAIN
(1 in 1000 LONGITUDINAL GRADE DOWNSTREAM)
N.T.S.

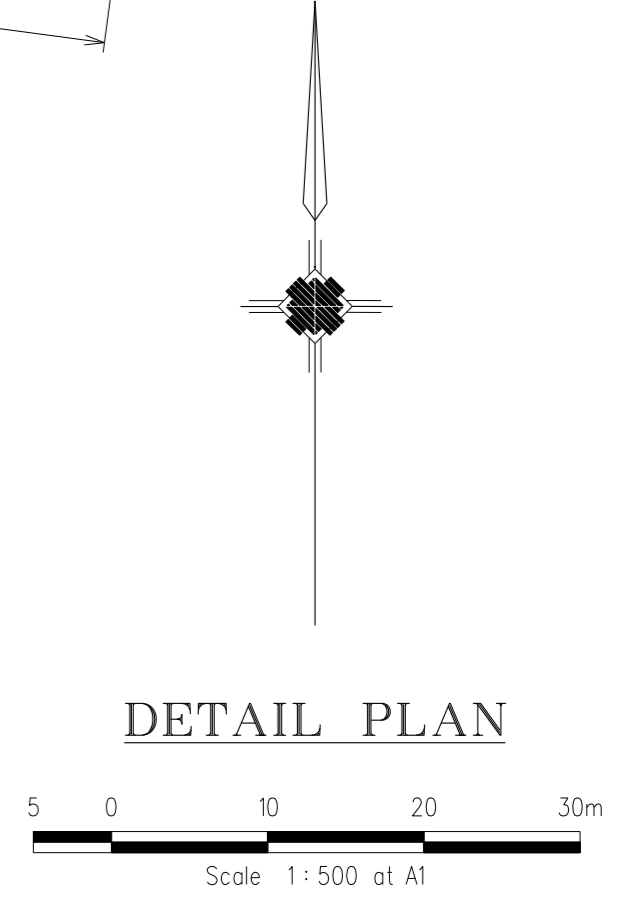


SECTION A-A
N.T.S.

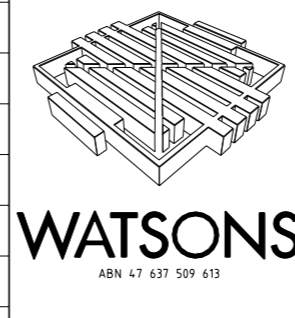
HIGHLANDS ESTATE

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 (N-S)	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



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	LEVEL DATA:	K\36182\36182\1\TOPO
22/01/14	M	PARK PATHWAY AMENDMENTS	DATUM:	AHD
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\R04A.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DA 9318 Mornington

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

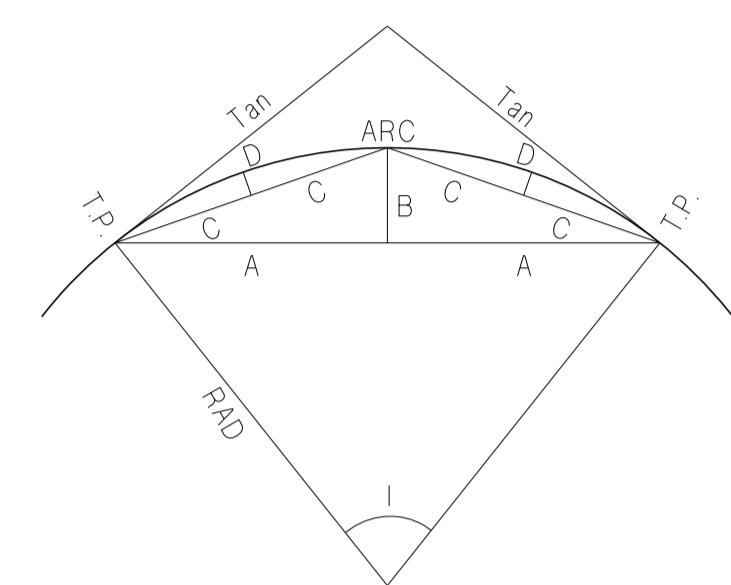
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R04A
DETAIL PLAN & SERVICE OFFSET TABLE		REVISION N
		SHEET 4A OF 27

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

WARNING
OVERHEAD ELECTRICITY

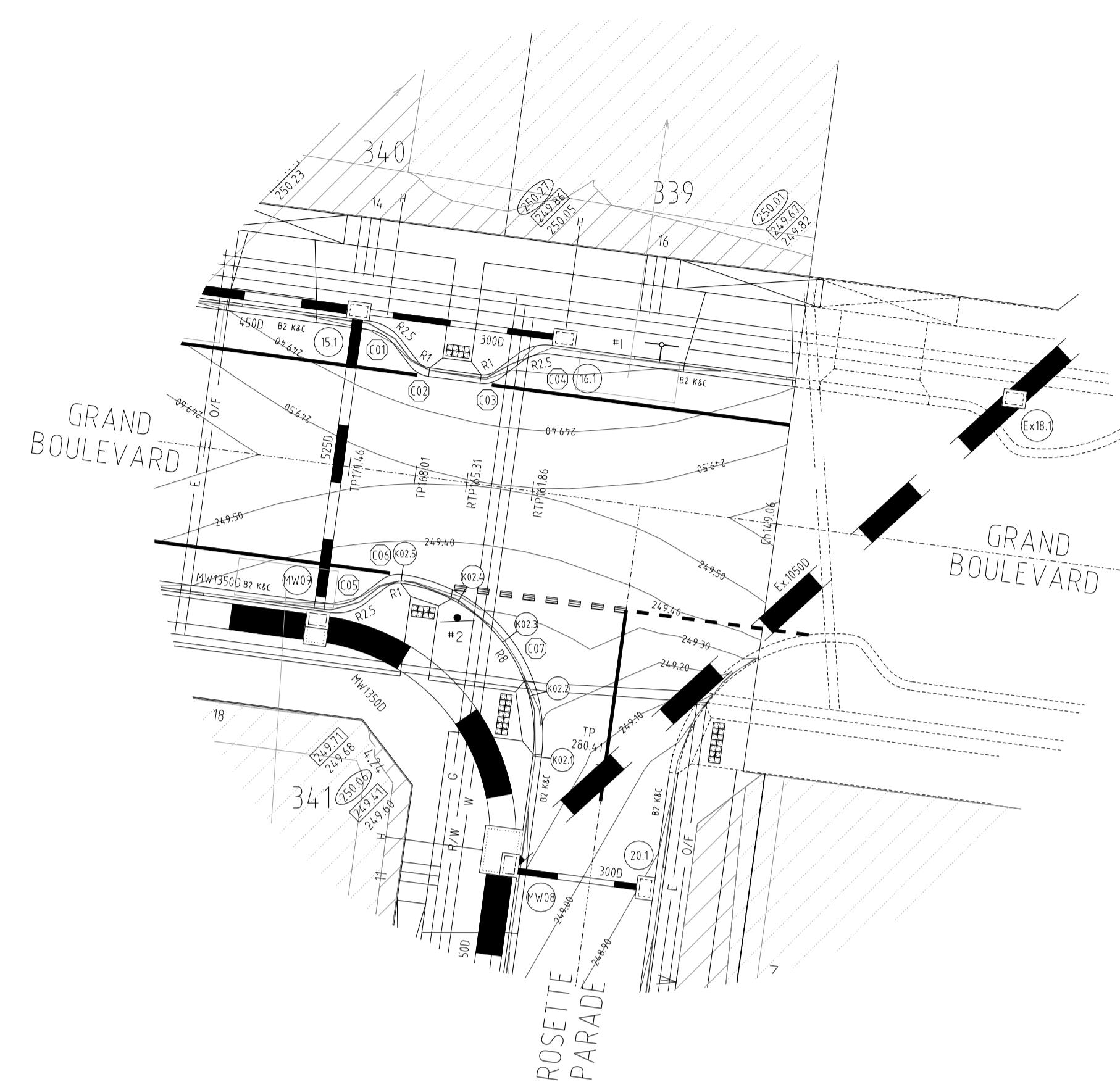
STOP
Major Cables exist in the area, if your activities are within Telstra encroachment distances (see duty of care) contact 03 9632 9961 at least 2 business days before starting activity.

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

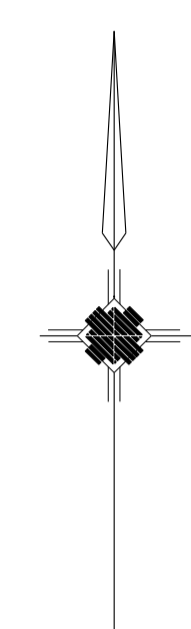


CURVE SETOUT TABLE

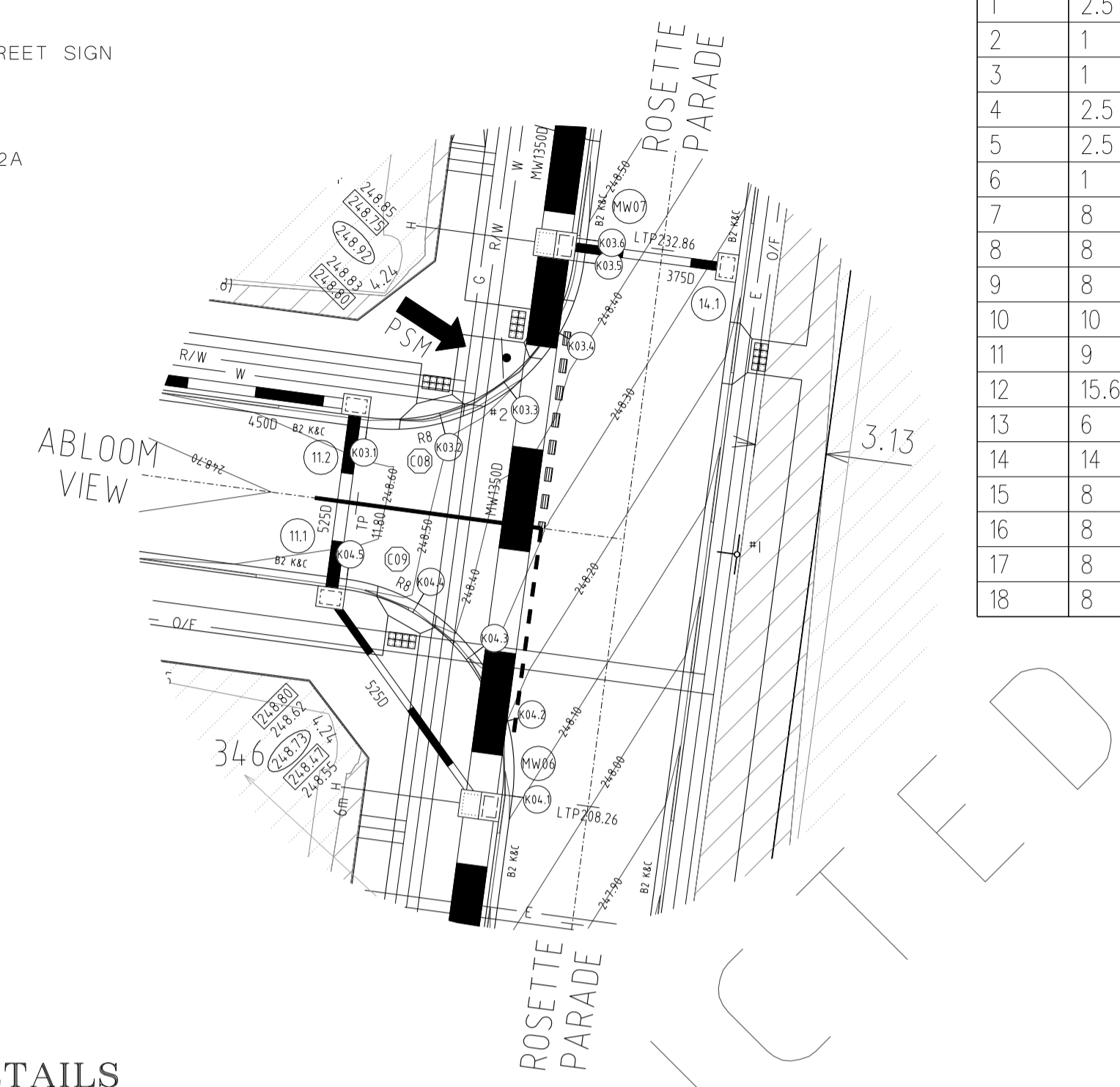
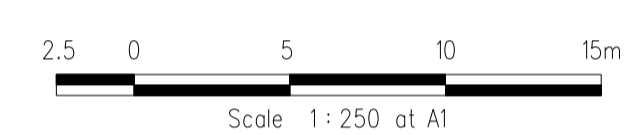
Curve	Radius	l	o	i	ii	Arc	Tan	A	B	C	D
1	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
2	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
3	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
4	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
5	2.5	44.67	44	40	4	1.949	1.03	0.95	0.19	0.48	0.05
6	1	44.98	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



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



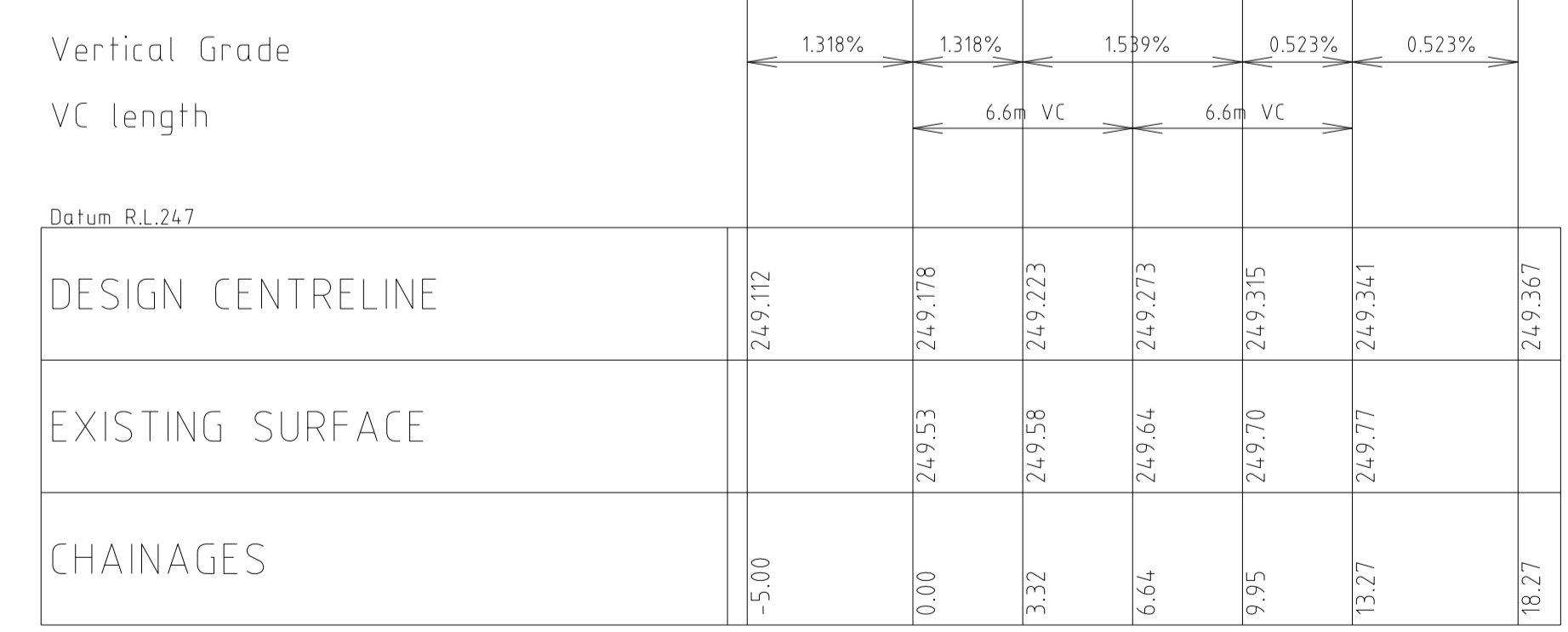
INTERSECTION DETAILS



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

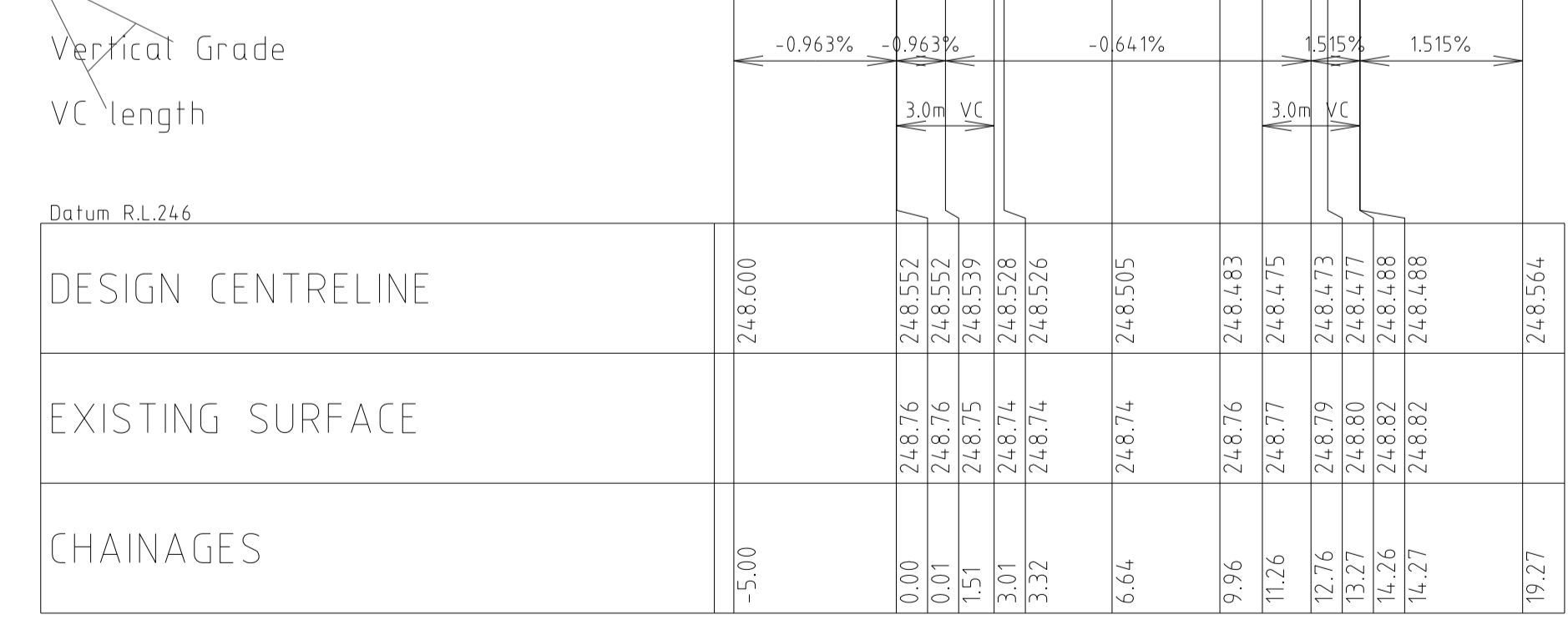


K02 LONGITUDINAL SECTION

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

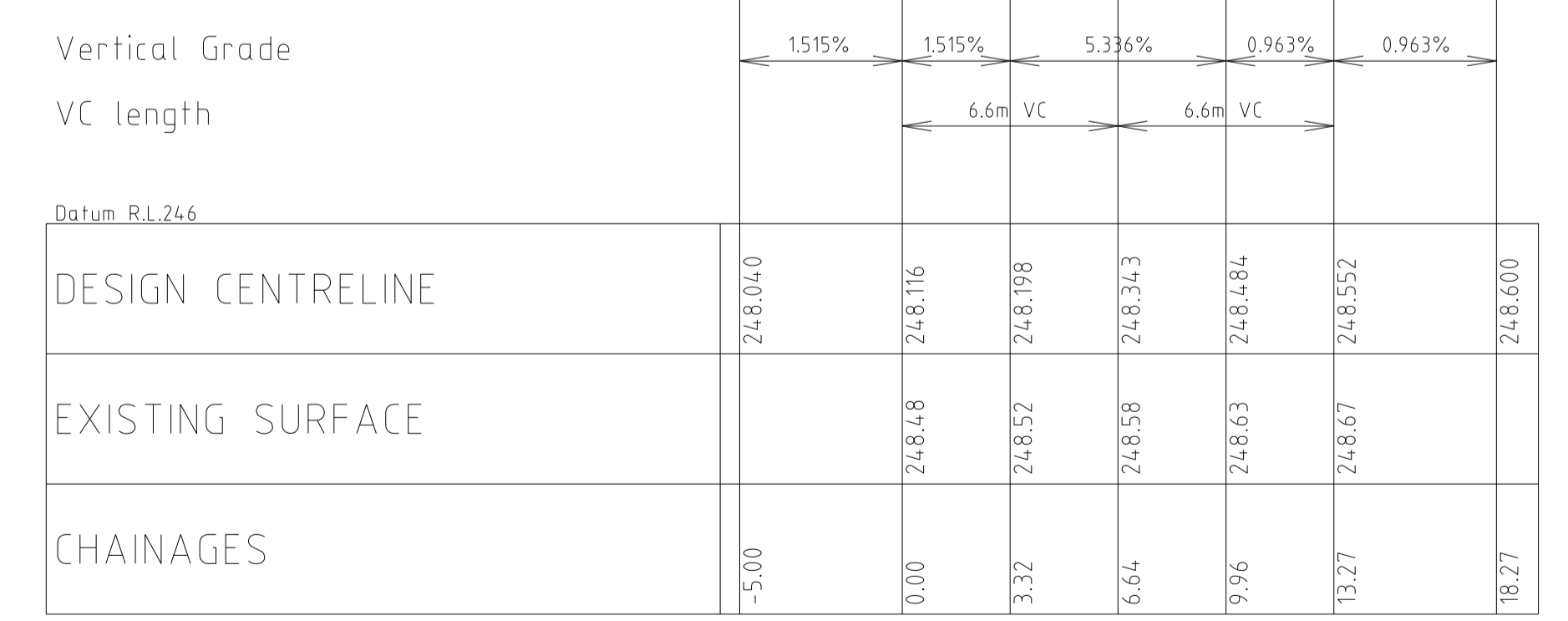


K03 LONGITUDINAL SECTION

KERB RETURN K04

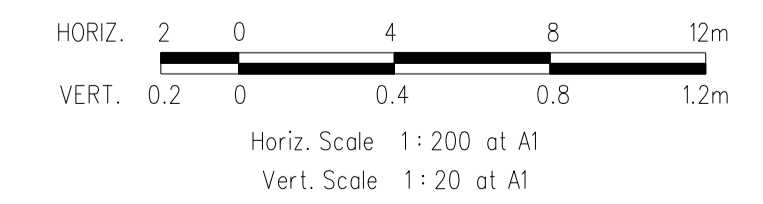
POINT NO.	EASTING	NORTHING	RL
K04.1	3840.941	9781.651	248.116
K04.2	3840.733	9784.94	248.198
K04.3	3839.282	9787.902	248.343
K04.4	3836.808	9790.081	248.484
K04.5	3833.69	9791.148	248.552

NOTE: SETOUT IS TO LIP OF KERB



K04 LONGITUDINAL SECTION

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\LT00
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
07/10/13	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\r05 dgn			AUTHORISED:	A.S.C DATE: MAY 2013

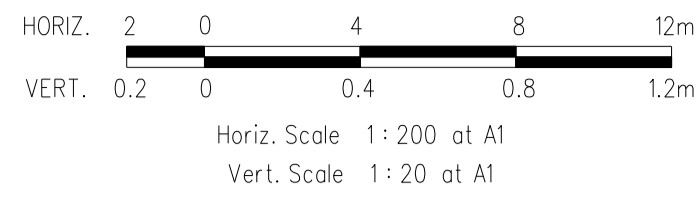


MORNINGTON
5 Main Street
P.O. Box 171 3911
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road
Melbourne, 3002
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 R05
INTERSECTION DETAILS, LIP OF KERB PROFILES & CURVE SETOUT TABLE		REVISION N
		SHEET 5 OF 27

LONGITUDINAL SECTIONS



KERB RETURN K05

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	3831.411	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

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
247.591		-5.00
247.542	247.99	0.00
247.541	247.99	0.02
247.528	247.97	1.52
247.519	247.95	3.00
247.519	247.95	3.02
247.499	247.91	6.71
247.479	247.90	10.42
247.459	247.91	14.13
247.445	247.94	16.81
247.443	247.95	17.84
247.445	247.96	18.31
247.462	247.98	19.81
247.462	247.98	19.84
247.546		24.84

K05 LONGITUDINAL SECTION

KERB RETURN K06

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

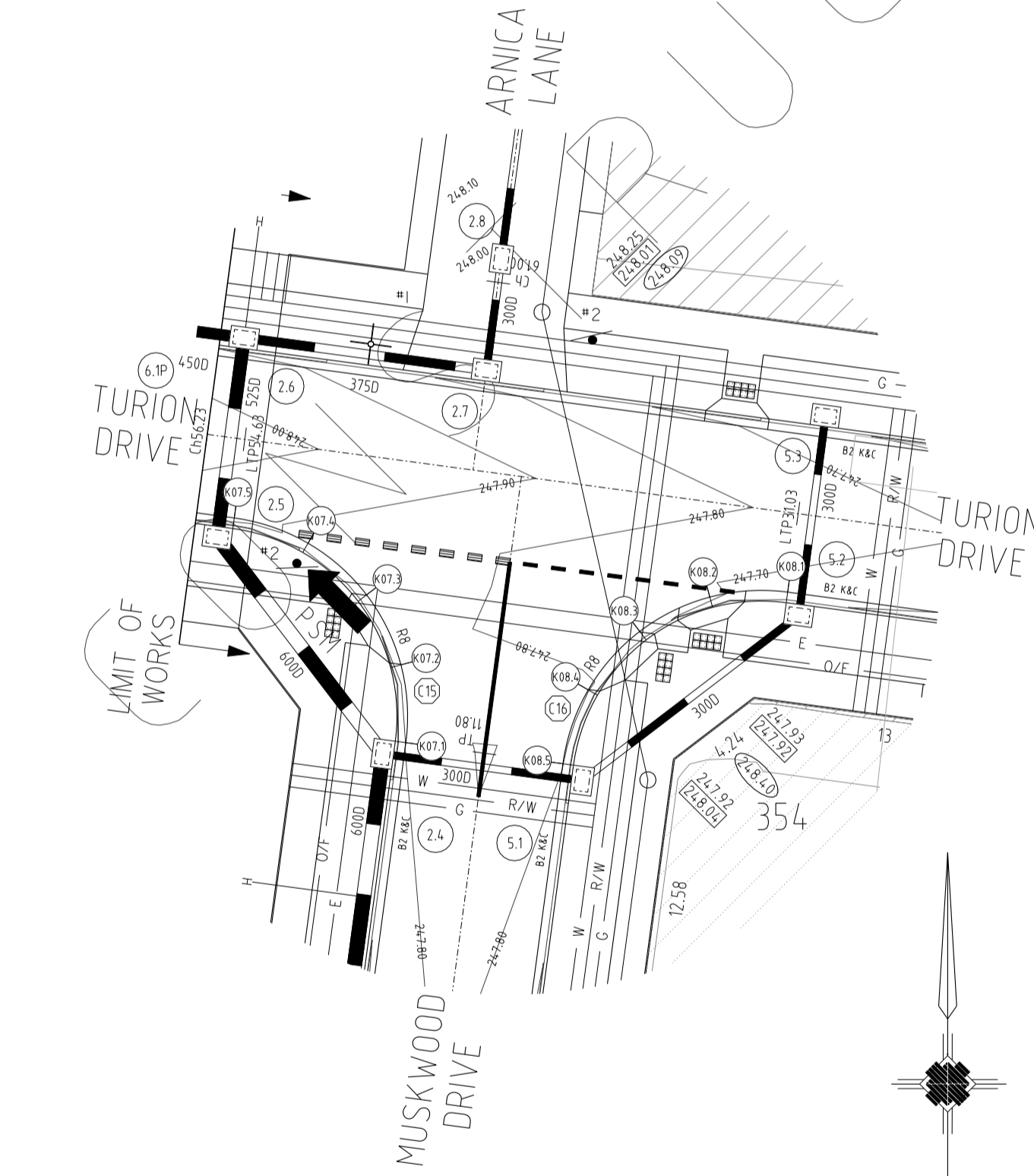
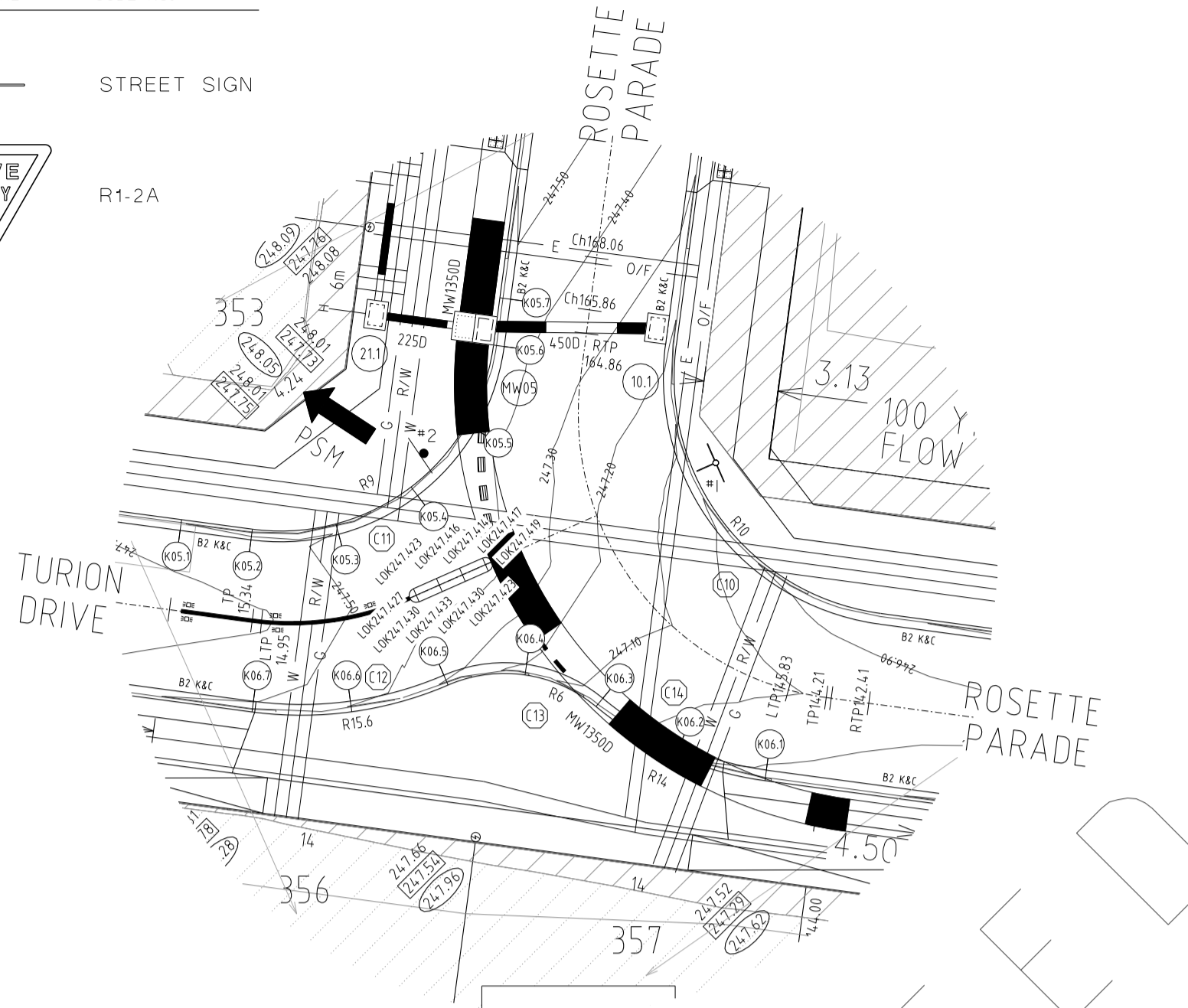
NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
246.825		-5.00
246.892	247.60	0.00
246.961	247.64	3.80
247.009	247.67	5.71
247.066	247.70	7.59
247.196	247.75	11.14
247.208	247.75	11.42
247.330	247.78	14.68
247.402	247.79	17.13
247.440	247.81	18.77
247.503	247.84	22.85
247.552		27.85

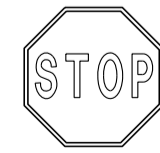
K06 LONGITUDINAL SECTION

PLAN I.D. PICTORIAL CODE No.



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

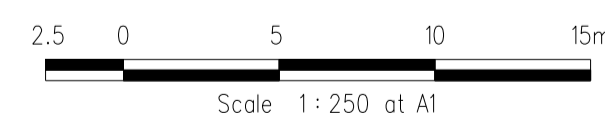
WARNING
OVERHEAD ELECTRICITY



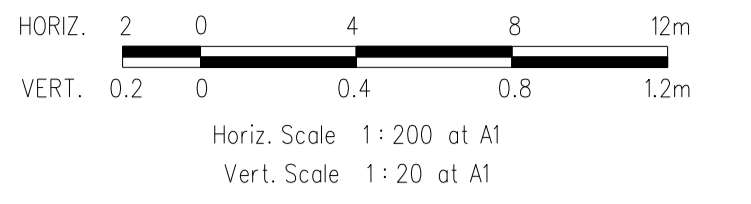
Major Cables exist in the area, if your activities are within Telstra encroachment distances (see duty of care) contact 03 9632 9961 at least 2 business days before starting activity.

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

INTERSECTION DETAILS



LONGITUDINAL SECTIONS



KERB RETURN K07

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

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

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

K07 LONGITUDINAL SECTION

KERB RETURN K08

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

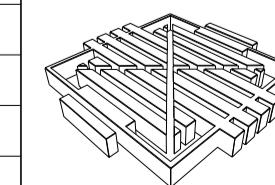
NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
247.614		-5.00
247.667	248.00	0.00
247.710	248.01	3.32
247.765	248.01	6.64
247.805	248.00	9.95
247.802	247.97	13.27
247.765		18.27

K08 LONGITUDINAL SECTION

DATE	DETAILS	AUTHORISED	SCALE:	AS SHOWN
14/02/14	N	AS CONSTRUCTED	DATE PRINTED:	14/02/2014
22/01/14	M	PARK PATHWAY AMENDMENTS	LEVEL DATA:	K:\36182\36182\LT0PO
08/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	DATUM:	AHD
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	PROJECT No.:	36182/3B
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	DRAWN:	C.M.B DATE: MAY 2013
			DESIGNED:	Z.W.L DATE: MAY 2013
			AUTHORISED:	A.S.C DATE: MAY 2013



WATSONS
ENR 41 431 501 410

MORNINGTON
5 Main Street,
P.O. Box 171 3931
Melbourne, 3902
Phone: (03) 5975 4444
Fax: (03) 5975 1916
DX: 93118 Mornington

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

PLAN NUMBER
**36182/3B
R06**

**INTERSECTION DETAILS
& LIP OF KERB PROFILES**

REVISION
N
SHEET 6 OF 27

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

WARNING
OVERHEAD ELECTRICITY

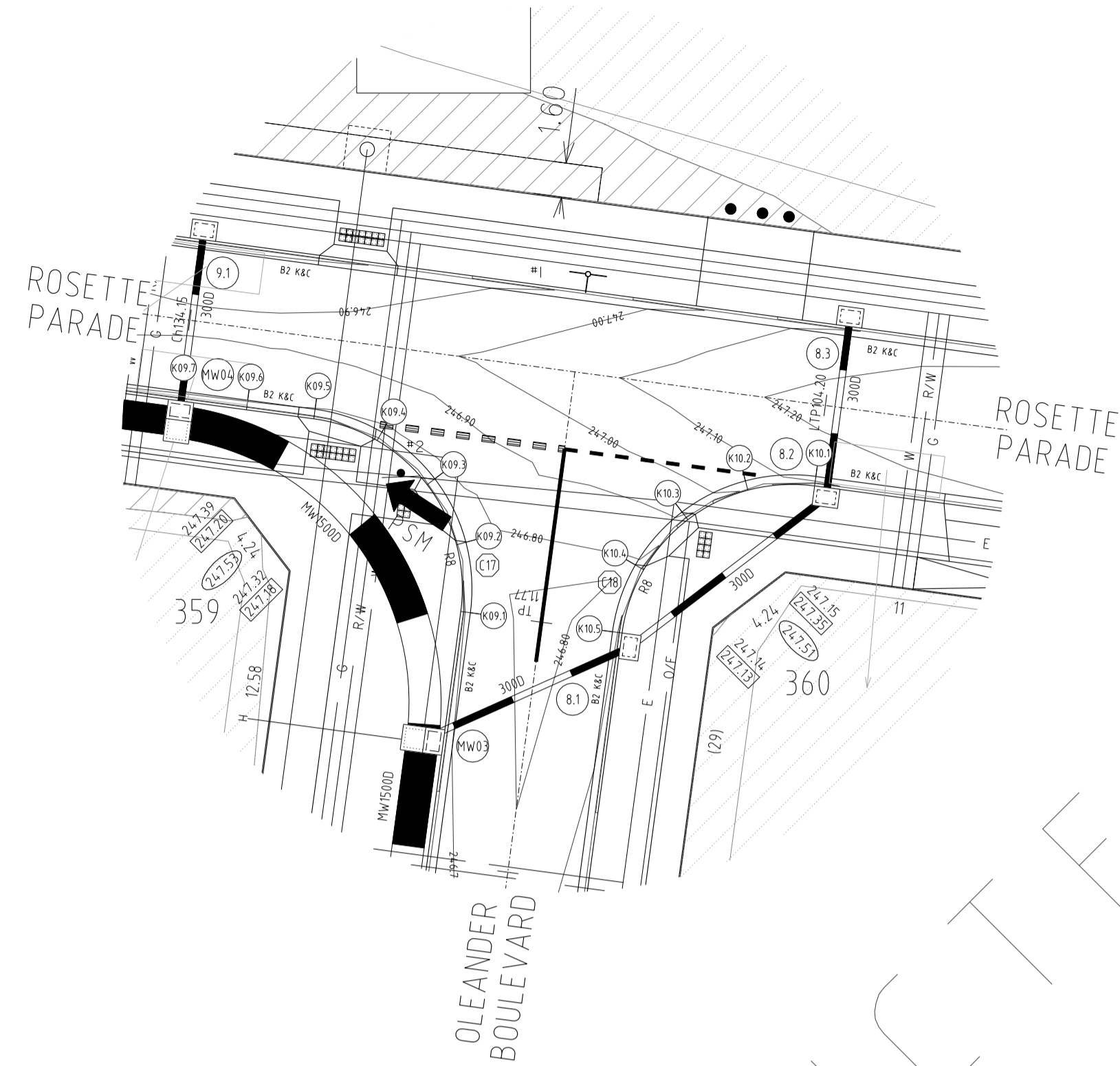


Major Cables exist in the area, if your activities are within Telstra encroachment distances (see duty of care) contact 03 9632 9961 at least 2 business days before starting activity.

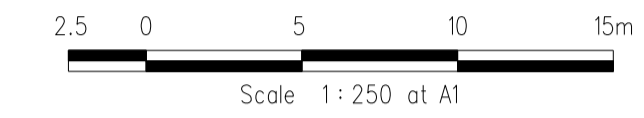
WARNING

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

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



INTERSECTION DETAILS



KERB RETURN K09

POINT NO	EASTING	NORTHING	RL
K09.1	3871.628	9707.919	246.732
K09.2	3871.42	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

	246.707	246.732	246.749	246.757	246.766	246.782	246.783	246.798	246.803	246.807	246.813	246.818
DESIGN CENTRELINE												
EXISTING SURFACE		247.23	247.28	247.31	247.34	247.38	247.39	247.42	247.44	247.45	247.48	247.51
CHAINAGES	-5.00	0.00	3.32	4.91	6.64	9.81	9.96	13.27	14.72	16.45	19.62	24.62

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

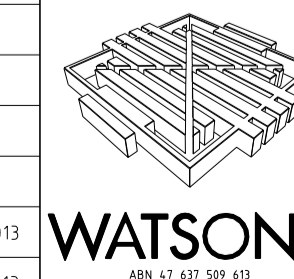
VC length

Datum RL 245

	247.186	247.129	247.058	246.920	246.788	246.732	246.707
DESIGN CENTRELINE							
EXISTING SURFACE		247.20	247.23	247.23	247.21	247.18	247.17
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\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\r07.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 93118 Mornington

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

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

PLAN NUMBER

36182/3B
R07

INTERSECTION DETAILS
& LIP OF KERB PROFILES

REVISION N

SHEET 7 OF 27

**GRAND BOULEVARD
LONGITUDINAL SECTION**

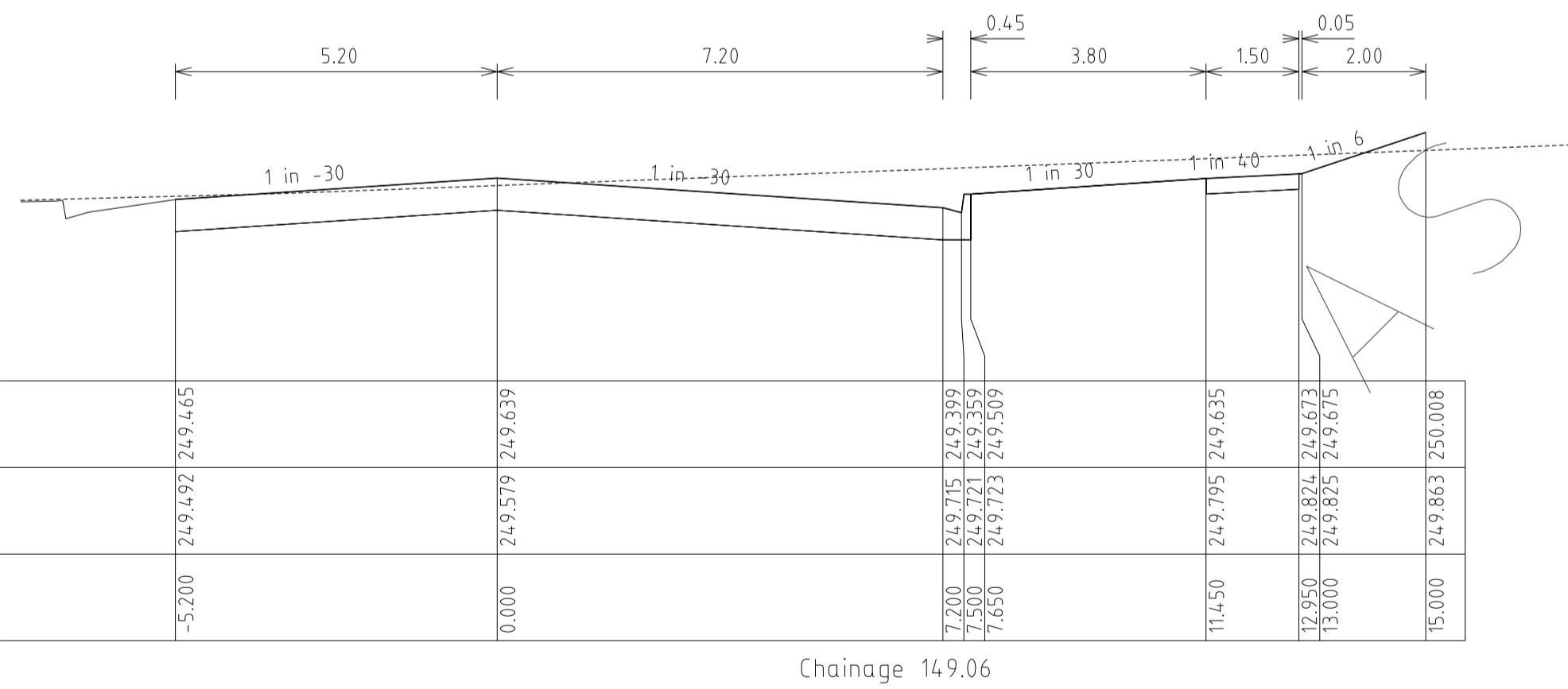
HORIZ 1 0 10 20 30m
VERT 0 5 0 1 2 3m

Horiz Scale 1 500 at A1
Vert Scale 1 50 at A1

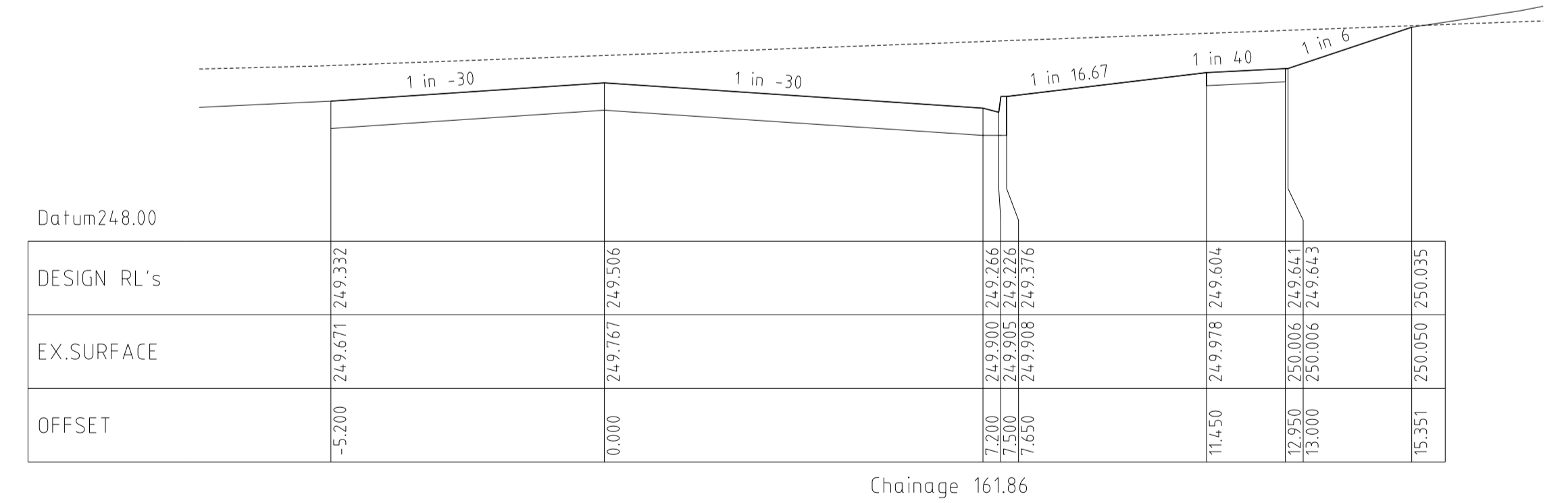
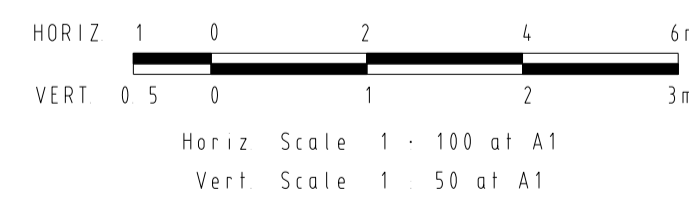
Horizontal Geometry
Vertical Grade
VC length

Datum RL 243

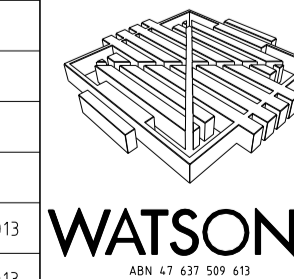
CHAINAGES	DESIGN CENTRELINE	EXISTING SURFACE
40.00	248.407	248.40
16.25	248.45	248.515
47.70	248.46	248.540
48.67	248.46	248.556
49.70	248.47	248.574
51.80	248.49	248.610
52.40	248.49	248.621
53.43	248.50	248.638
54.40	248.51	248.655
55.85	248.52	248.680
60.00	248.55	248.751
62.88	248.58	248.801
64.11	248.59	248.822
80.00	248.83	249.095
87.71	248.97	249.278
88.74	248.98	249.246
89.71	249.00	249.263
91.16	249.03	249.288
98.13	249.11	249.407
100.00	249.13	249.440
109.15	249.20	249.597
110.60	249.21	249.622
111.57	249.22	249.639
112.60	249.22	249.656
113.20	249.23	249.667
116.30	249.25	249.720
116.95	249.26	249.731
117.33	249.26	249.738
118.30	249.27	249.753
119.75	249.28	249.775
120.00	249.28	249.778
130.60	249.38	249.849
131.95	249.40	249.848
136.80	249.45	249.824
137.83	249.46	249.816
138.80	249.47	249.806
140.00	249.48	249.793
140.25	249.48	249.790
140.96	249.49	249.781
142.43	249.51	249.761
142.39	249.52	249.746
144.41	249.53	249.728
146.95	249.56	249.680
147.23	249.56	249.674
149.06	249.58	249.639
160.00	249.74	249.572
161.86	249.77	249.506
162.23	249.77	249.505
163.81	249.80	249.503
165.31	249.82	249.505
168.01	249.86	249.514
171.45	249.91	249.540
171.46	249.91	249.540
177.23	249.99	249.615
177.32	249.99	249.617
179.06	250.01	249.646
180.00	250.02	249.651
187.06	250.10	249.768
200.00	250.27	249.935
202.32	250.30	249.961
220.00	250.50	250.116
227.32	250.59	250.159
240.00	250.71	250.223
260.00	250.80	250.323
280.00	250.90	250.423
300.00	250.91	250.523



**GRAND BOULEVARD
CROSS 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\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\r08.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



MORNINGTON
15 Main Street,
P.O. Box 111 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3936
DX: 93118 Mornington

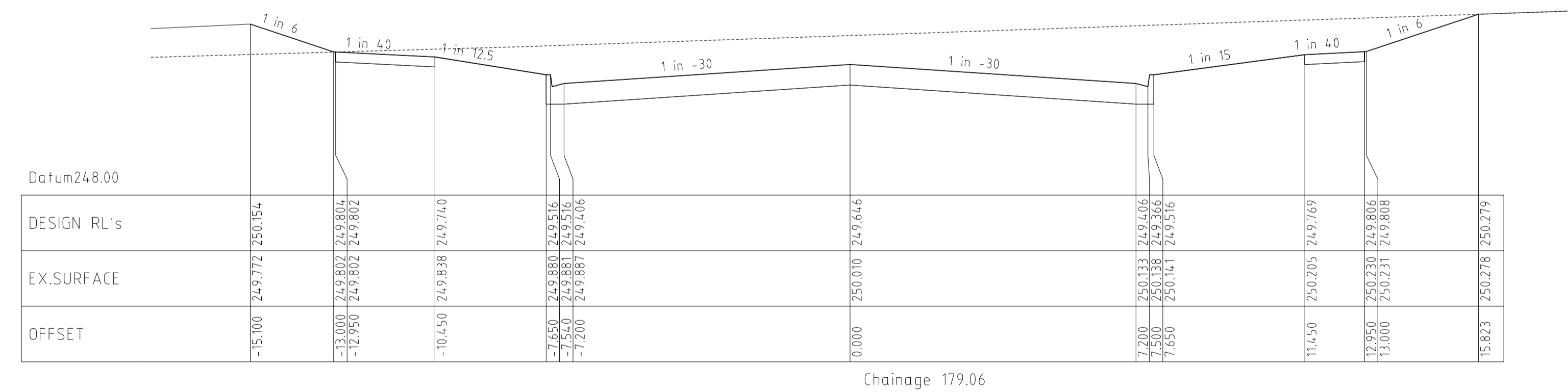
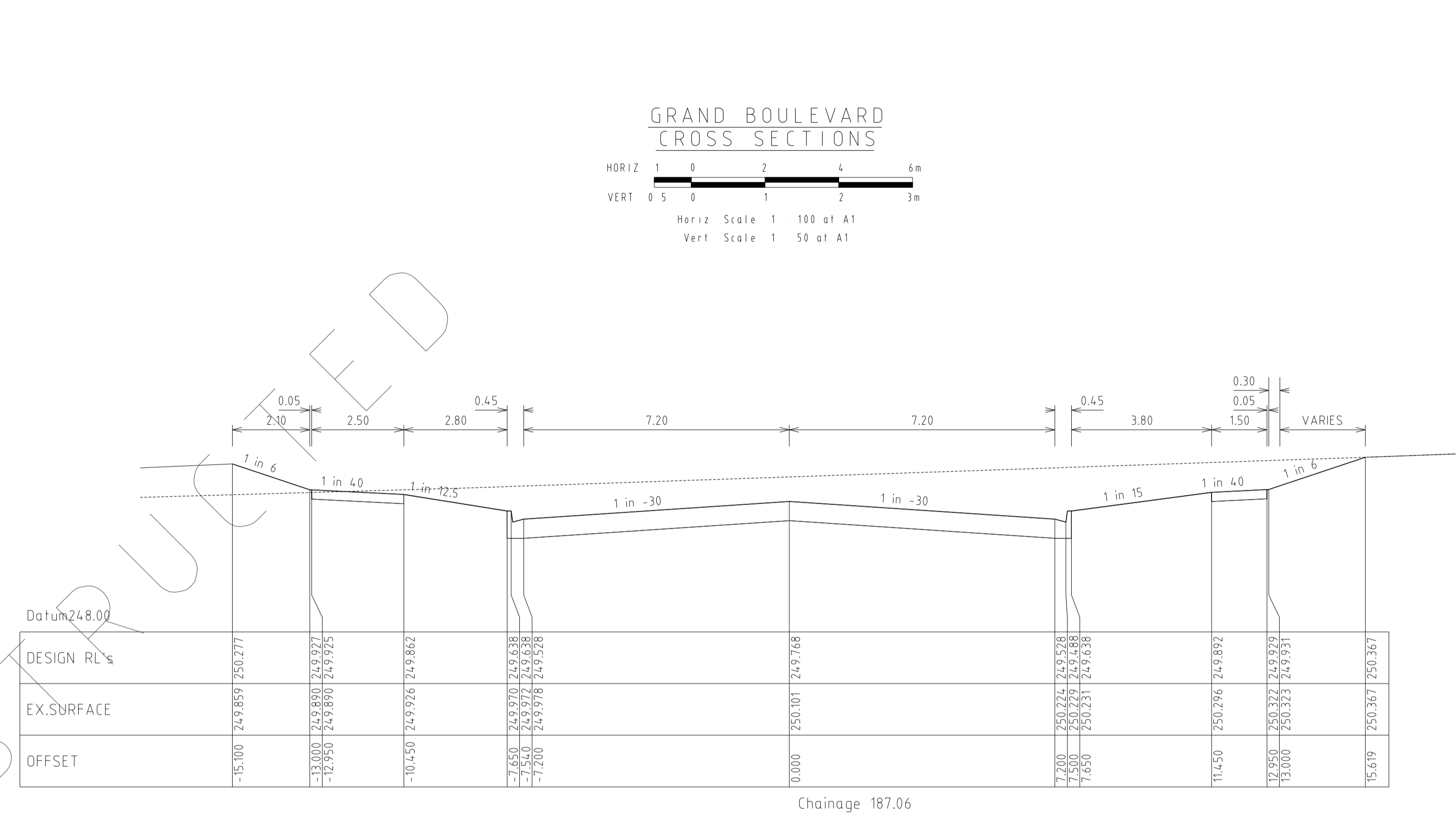
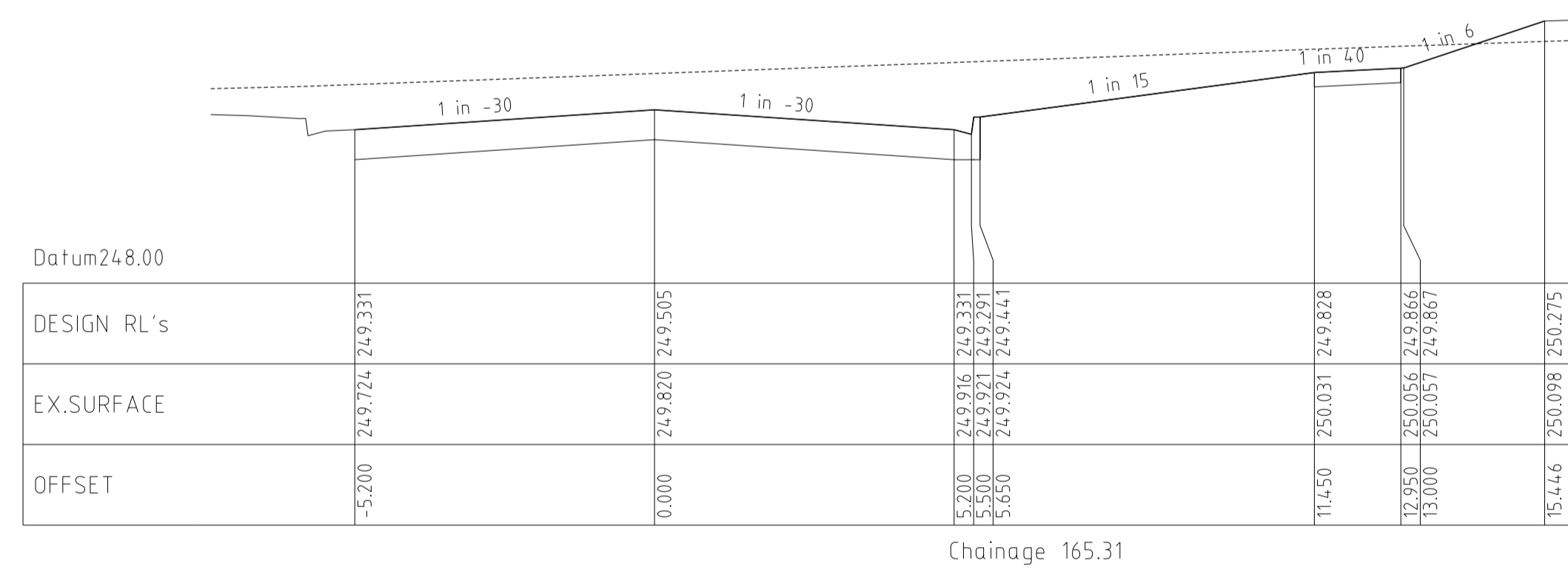
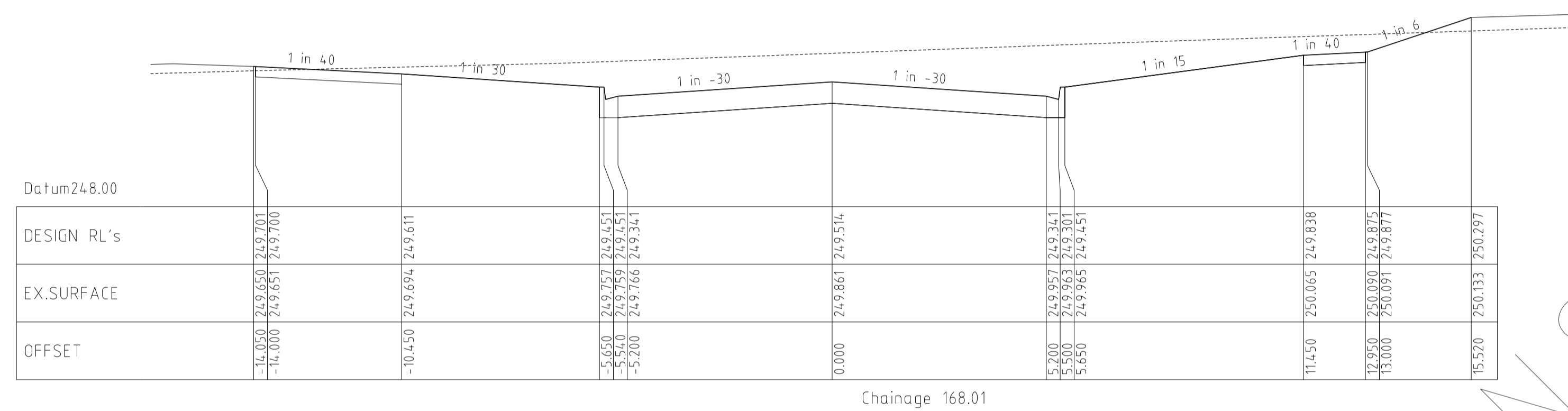
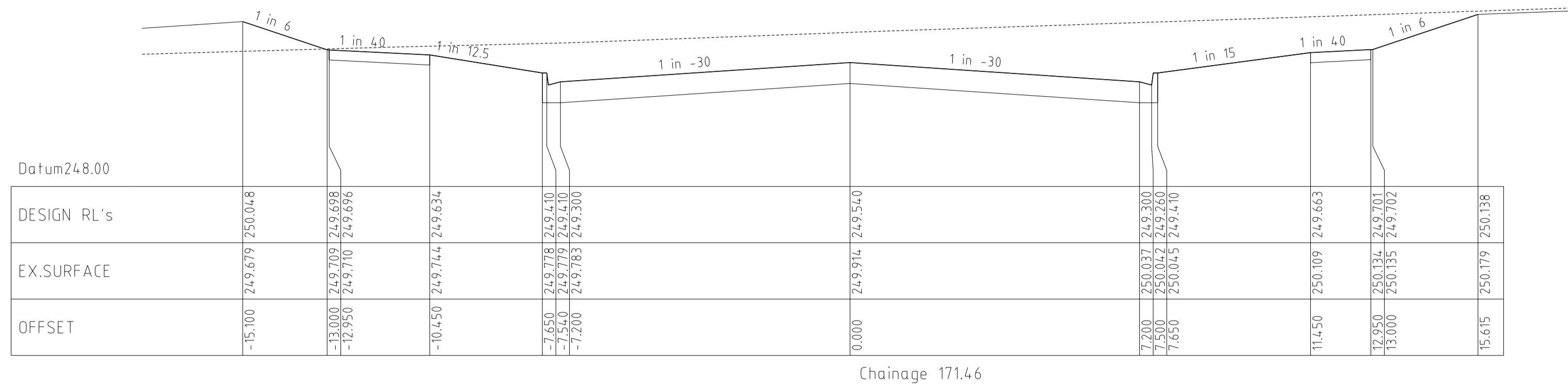
MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9697 8000
Fax: (03) 9697 8099

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

PLAN NUMBER
36182/3B
R08

GRAND BOULEVARD
LONGITUDINAL & CROSS SECTIONS

REVISION N
SHEET 8 OF 27



GRAND BOULEVARD
CROSS SECTIONS

HORIZ 1 0 2 4 6m
VERT 0 5 0 1 2 3m

Horiz Scale 1 100 at A1
Vert Scale 1 50 at A1

DRAFT

AS COMS

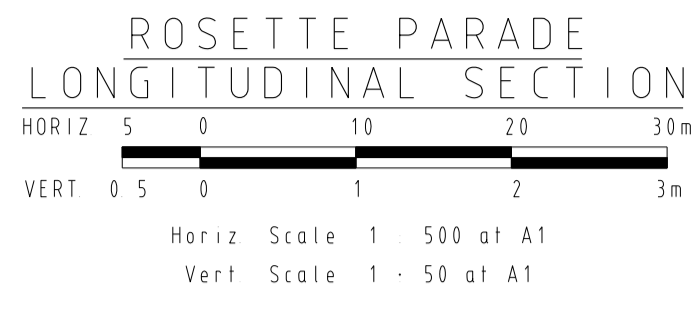
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	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\r09.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

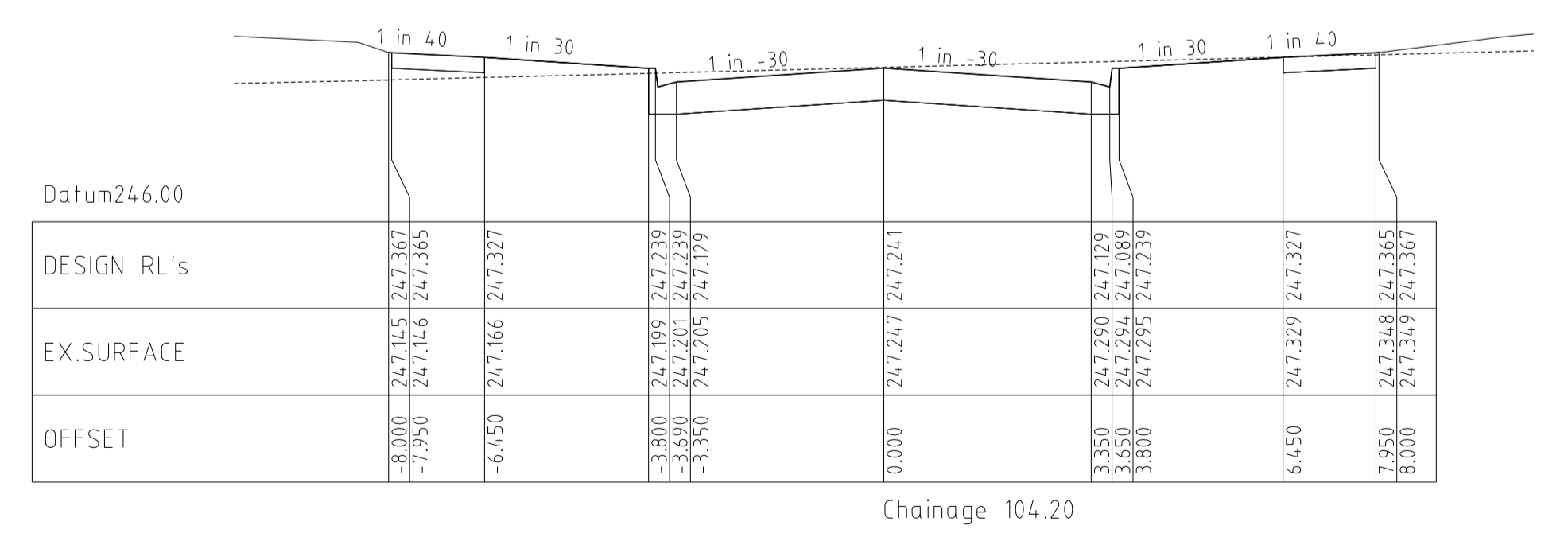
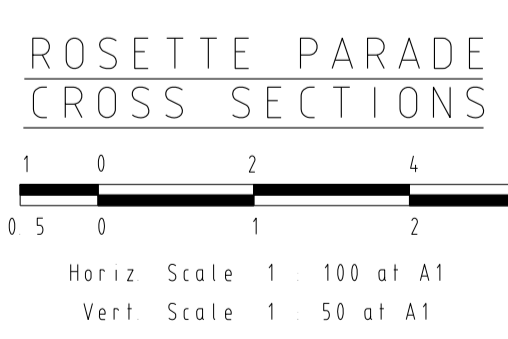
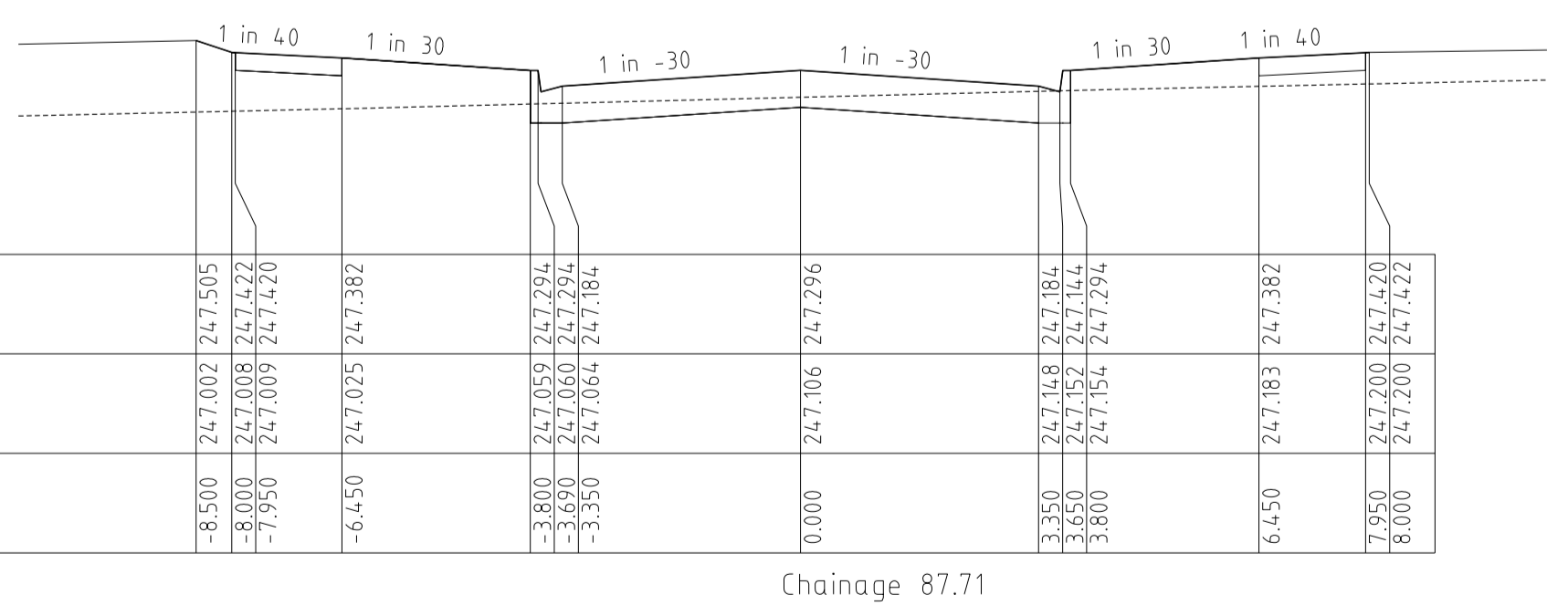
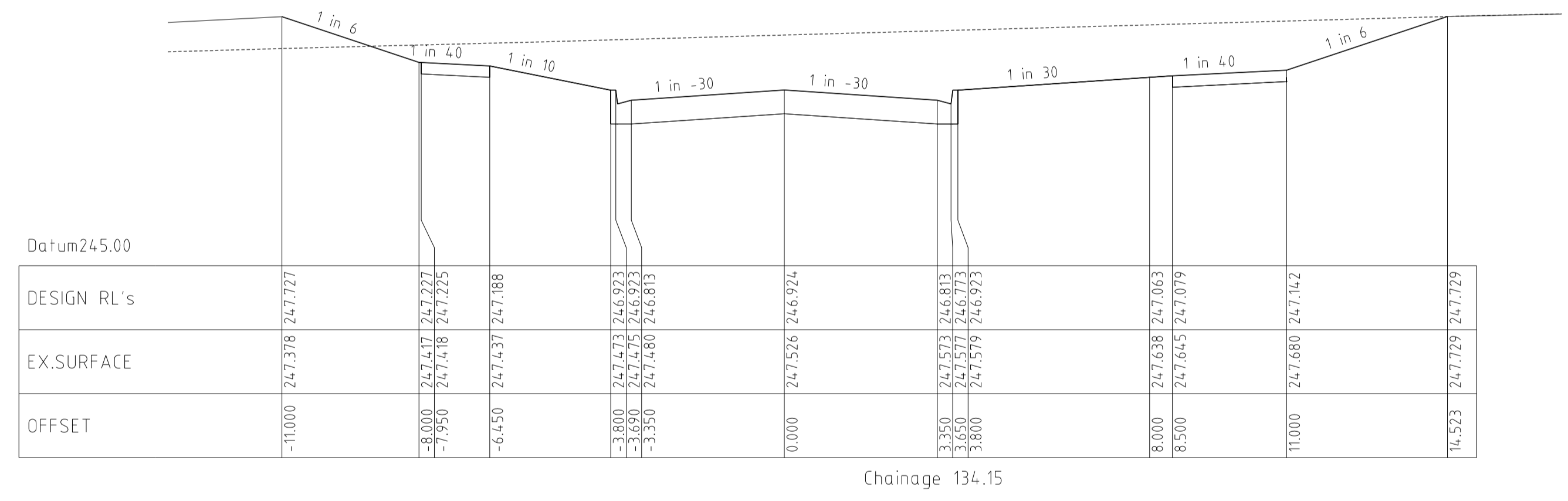
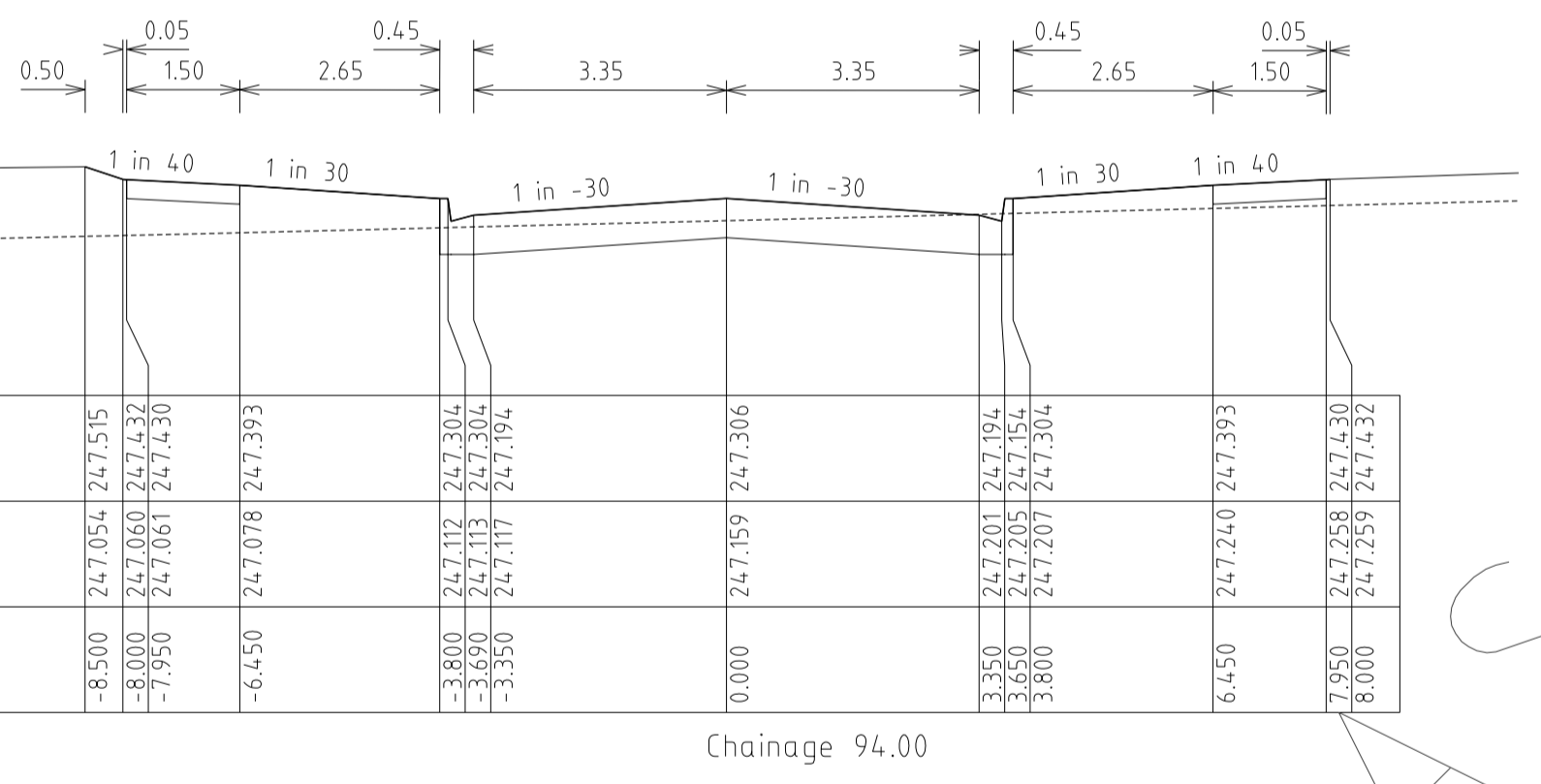
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R09
GRAND BOULEVARD CROSS SECTIONS		REVISION N
		SHEET 9 OF 27



Horizontal Geometry
Vertical Grade
VC length

Datum RL.242

CHAINAGES	DESIGN CENTRELINE	EXISTING SURFACE
0.00	246.360	246.36
8.06	246.448	246.40
16.06	246.535	246.45
20.00	246.578	246.47
26.56	246.649	246.50
28.20	246.667	246.51
40.00	246.796	246.65
51.80	246.924	246.79
53.56	246.943	246.81
60.00	247.014	246.86
64.11	247.058	246.90
80.00	247.231	247.03
81.36	247.246	247.05
87.71	247.296	247.11
92.54	247.307	247.15
94.00	247.306	247.16
96.36	247.300	247.18
100.00	247.280	247.21
104.20	247.241	247.25
111.36	247.135	247.32
111.38	247.134	247.32
120.00	247.40	247.40
120.43	247.401	247.40
133.24	246.924	247.52
134.15	246.924	247.53
135.43	246.926	247.54
140.00	246.948	247.58
142.41	246.969	247.60
144.80	246.985	247.62
144.21	246.988	247.62
145.83	247.008	247.64
150.43	247.081	247.70
150.55	247.083	247.70
160.00	247.251	247.85
163.06	247.303	247.90
164.86	247.334	247.92
165.55	247.345	247.93
165.86	247.350	247.93
168.06	247.387	247.96
173.81	247.480	248.02
179.56	247.569	248.09
180.00	247.576	248.10
180.55	247.584	248.10
185.56	247.660	248.16
191.56	247.751	248.23
197.31	247.838	248.30
200.00	247.879	248.33
203.06	247.925	248.37
208.26	248.004	248.44
220.00	248.182	248.60
232.86	248.377	248.78
240.00	248.485	248.90
242.06	248.516	248.93
250.34	248.641	249.06
254.56	248.705	249.12
260.00	248.785	249.20
265.34	248.861	249.29
267.06	248.885	249.31
280.00	249.062	249.48
280.34	249.066	249.48
280.41	249.067	249.49
294.06	249.68	249.68



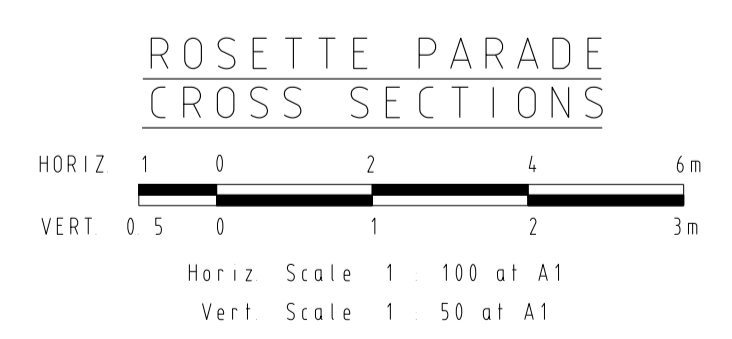
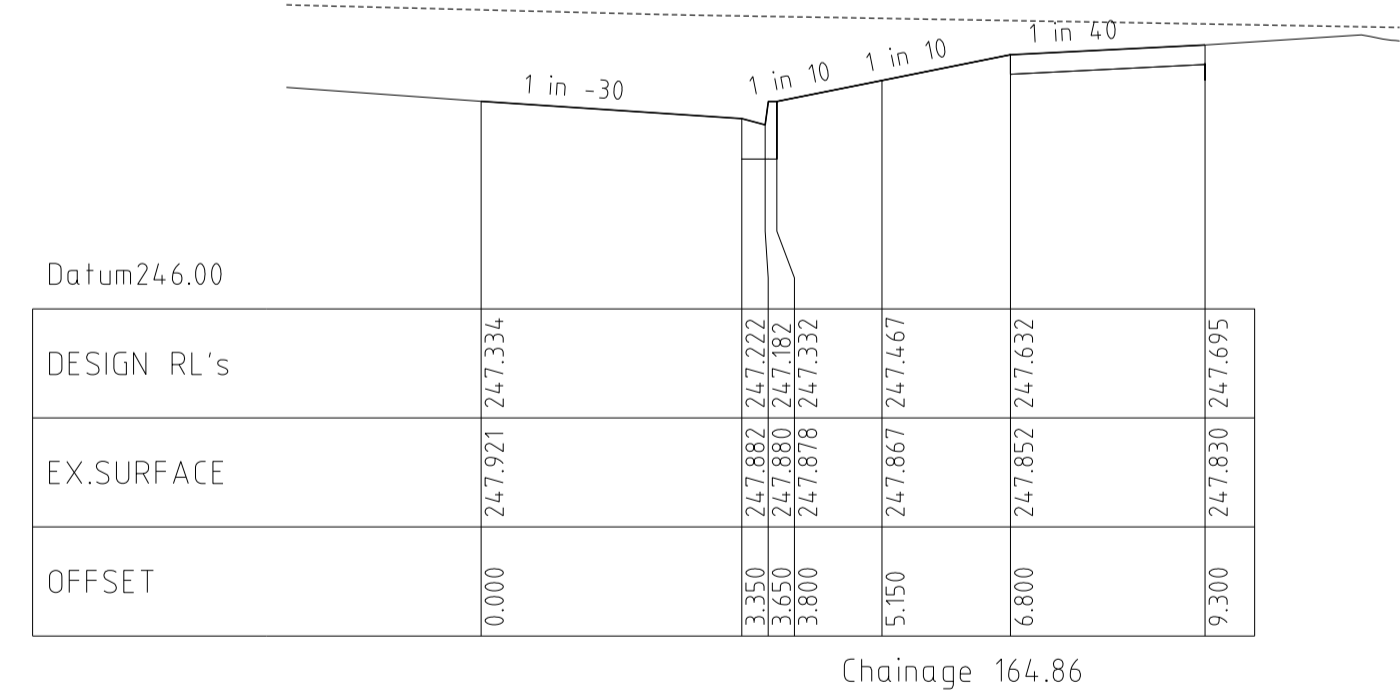
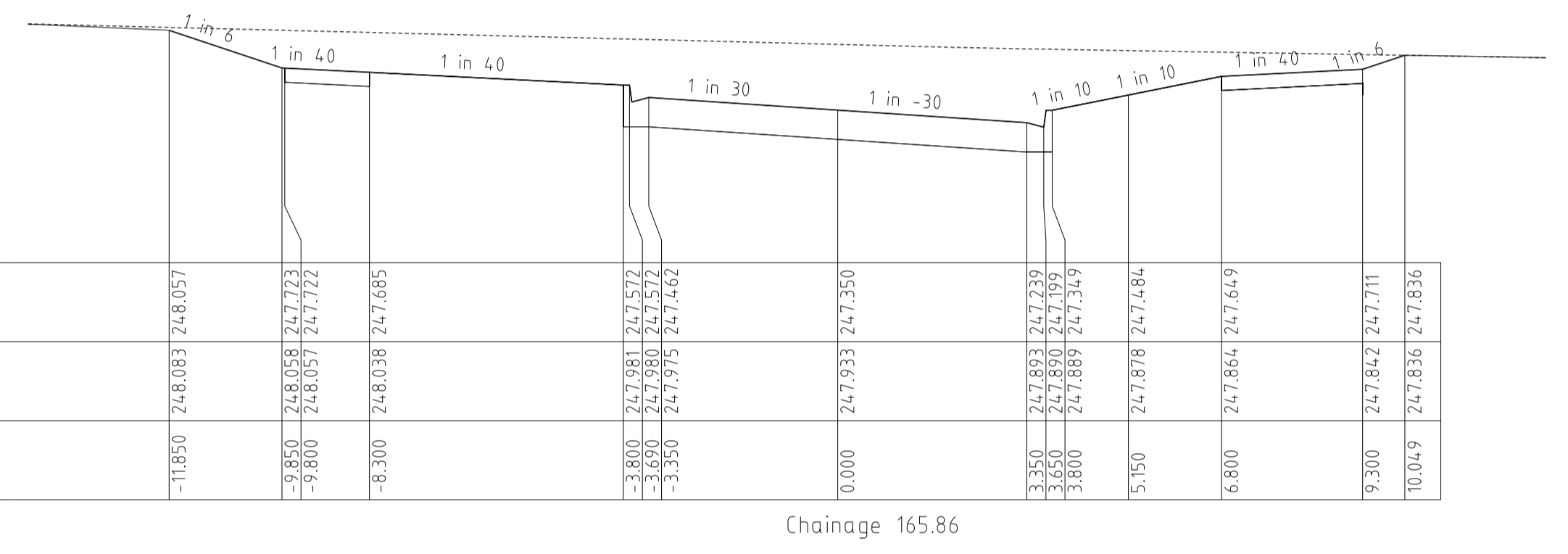
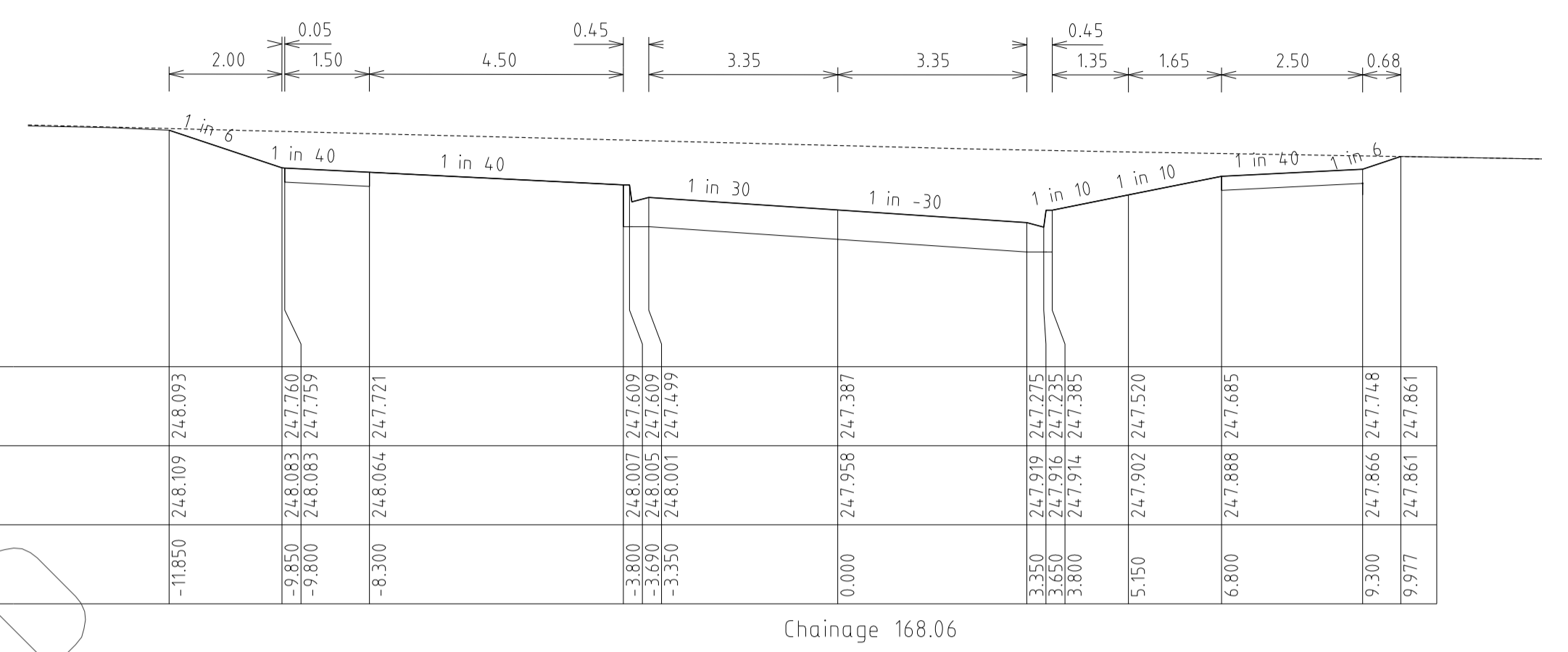
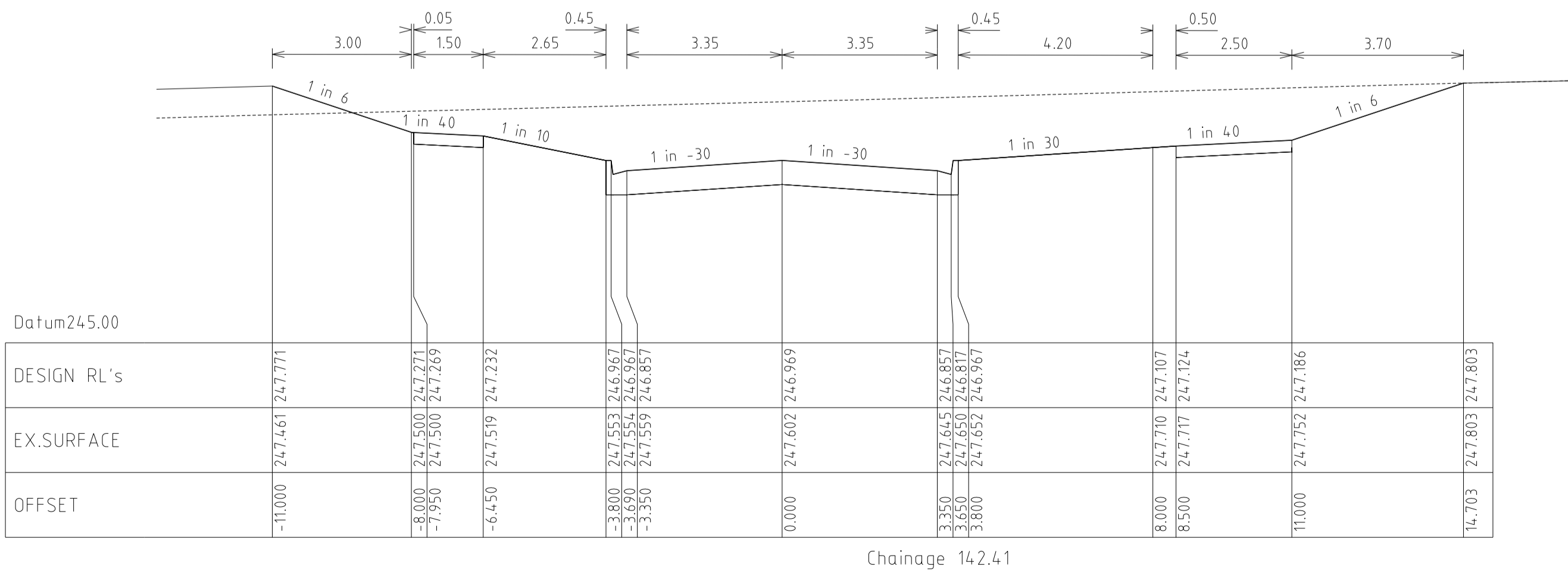
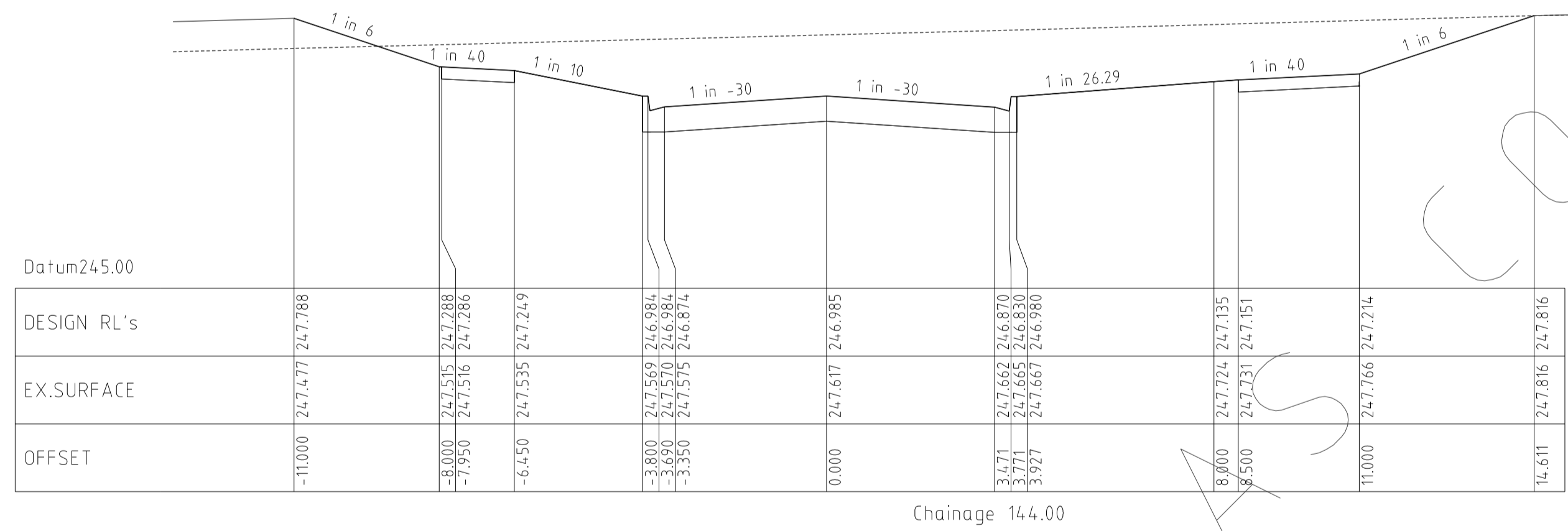
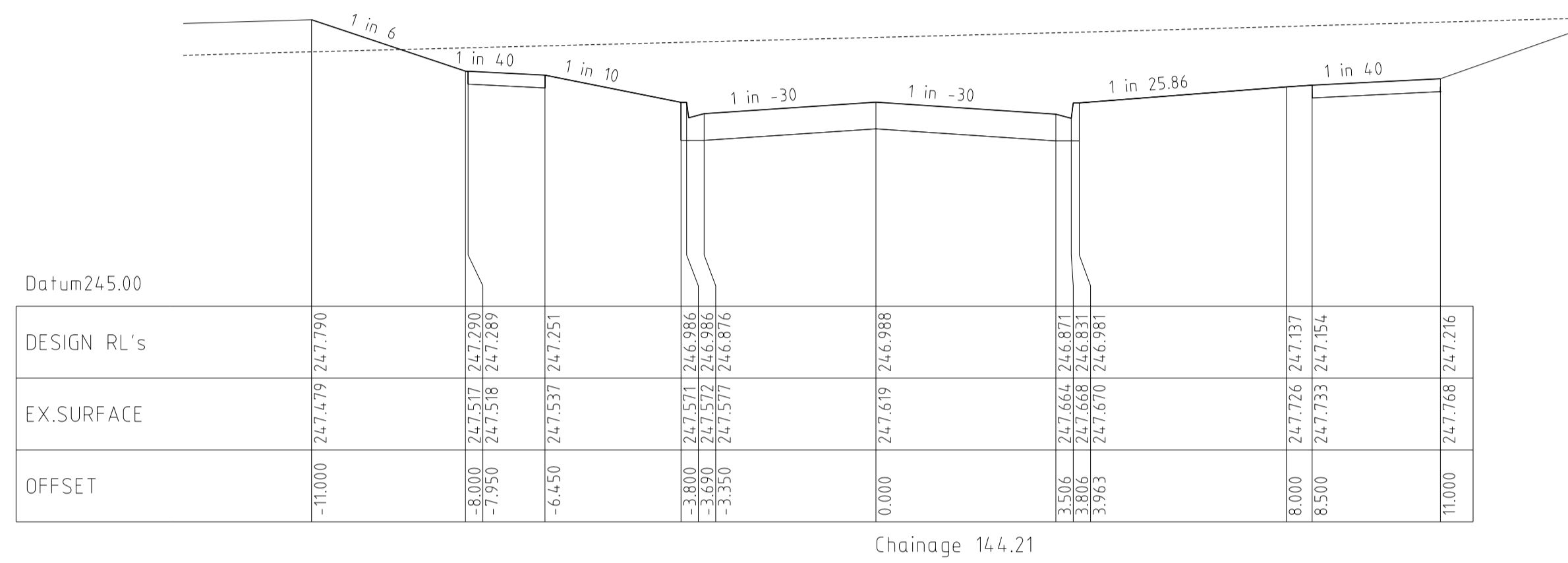
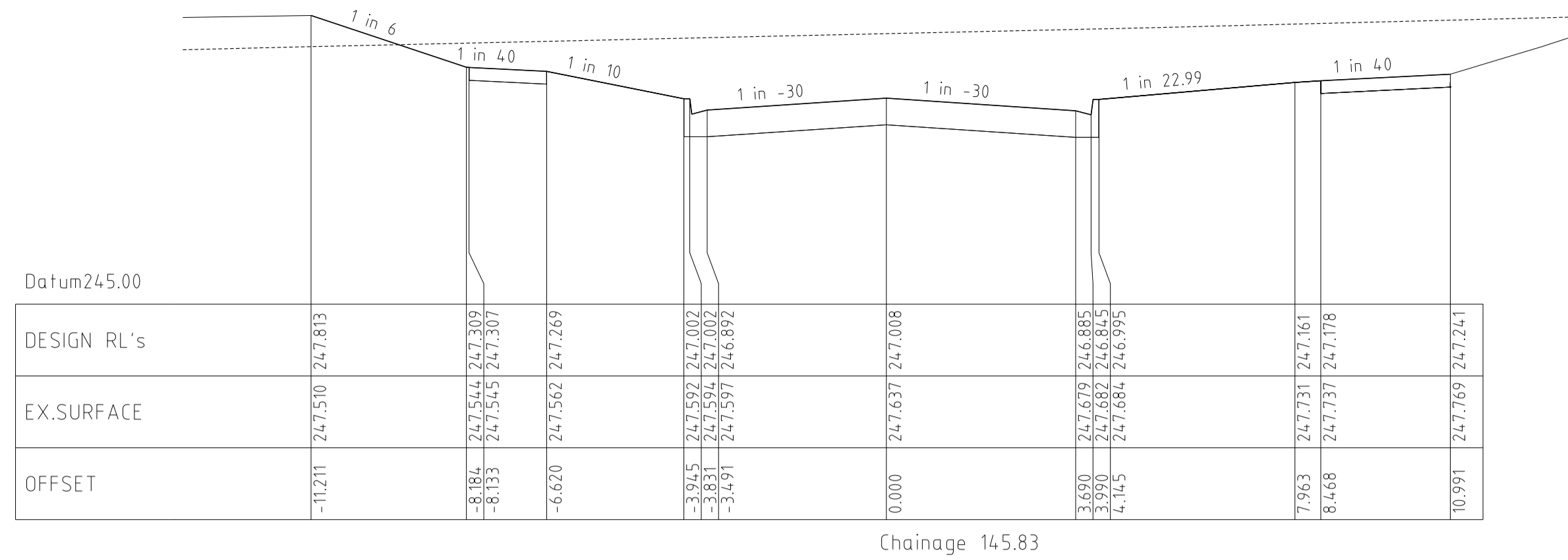
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	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\r10.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



MORNINGTON
5 Main Street,
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9497 8600
Fax: (03) 9497 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R10
ROSETTE PARADE LONGITUDINAL & CROSS SECTIONS		REVISION N
		SHEET 10 OF 27



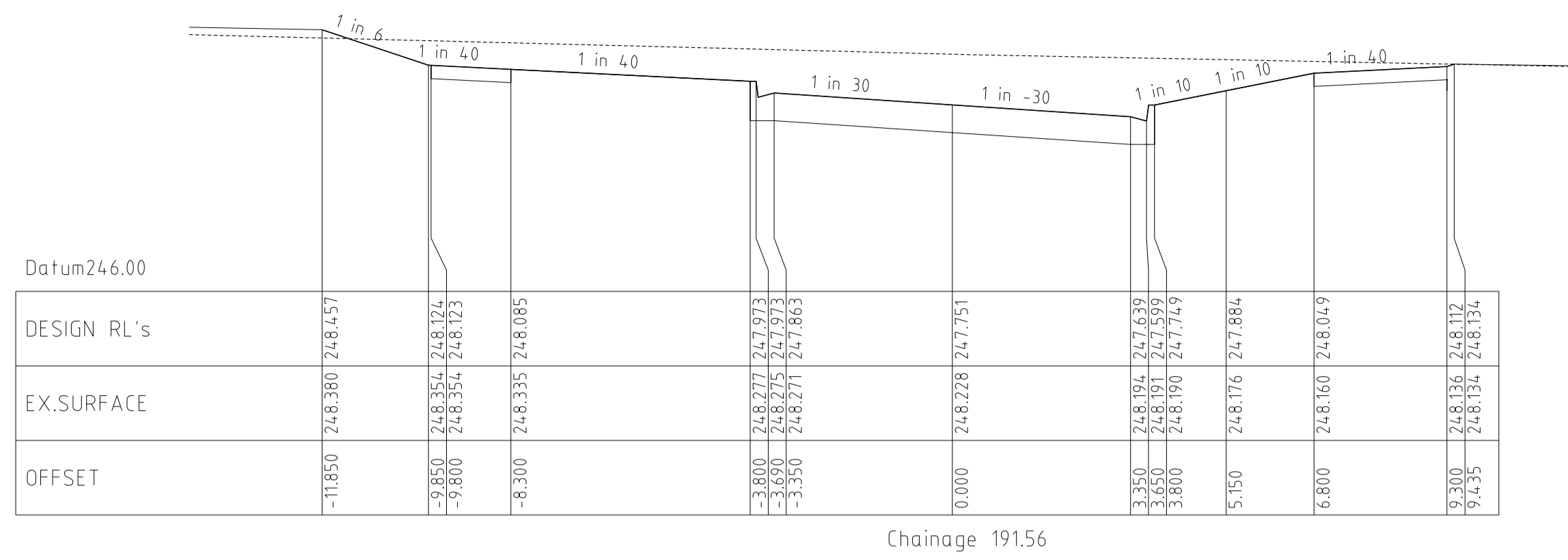
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	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\11.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



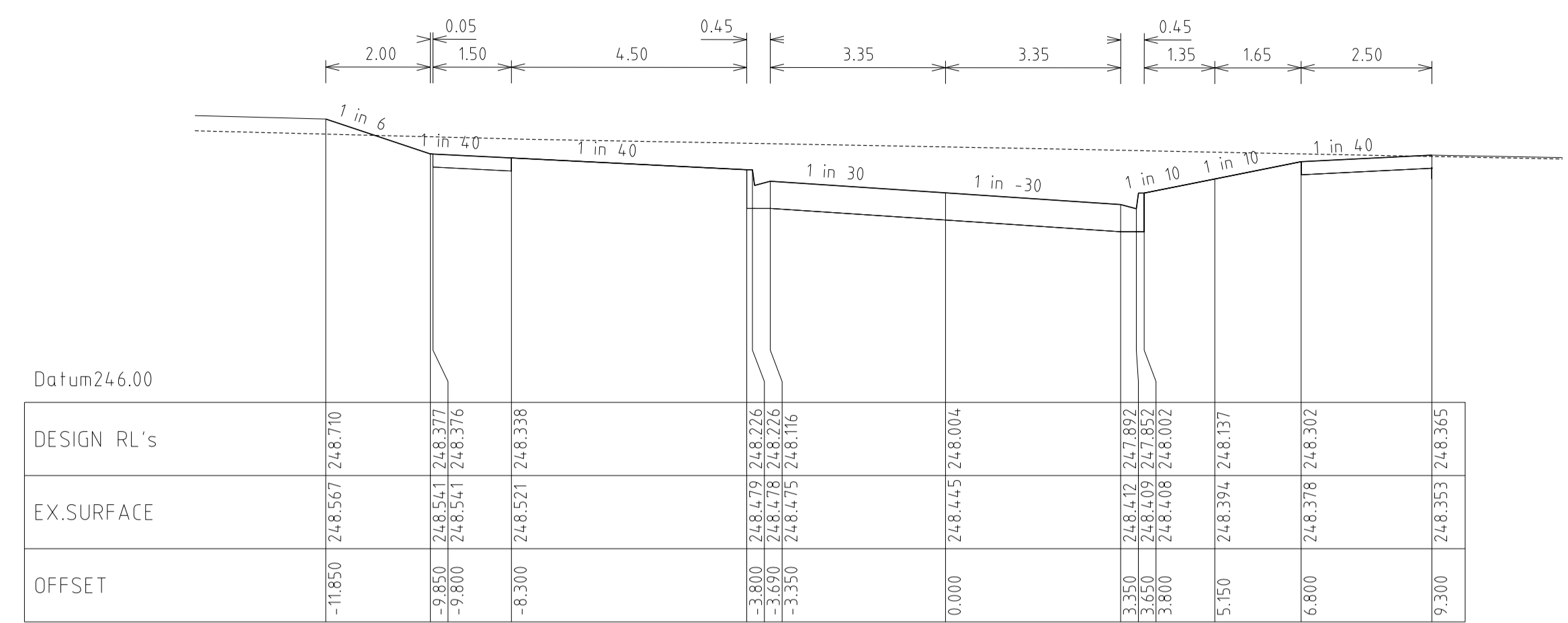
MORNINGTON
5 Main Street
P.O. Box 171 3911
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 93118 Mornington

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

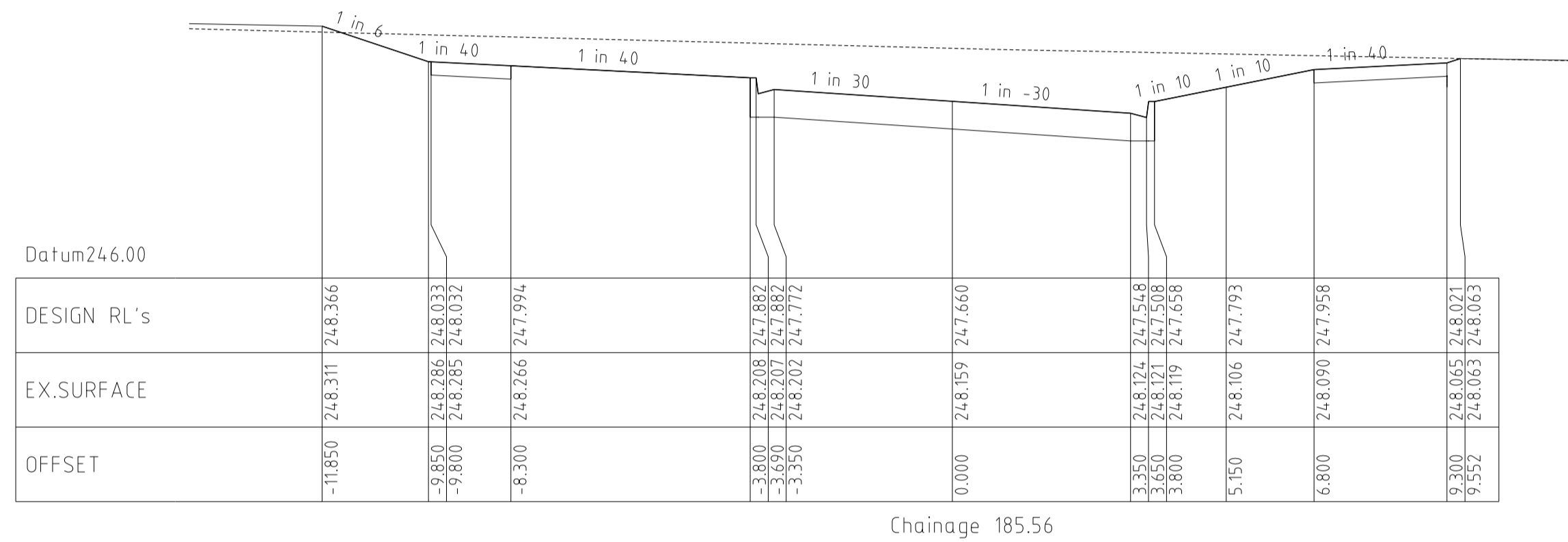
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R 11
ROSETTE PARADE CROSS SECTIONS		REVISION N
		SHEET 11 OF 27



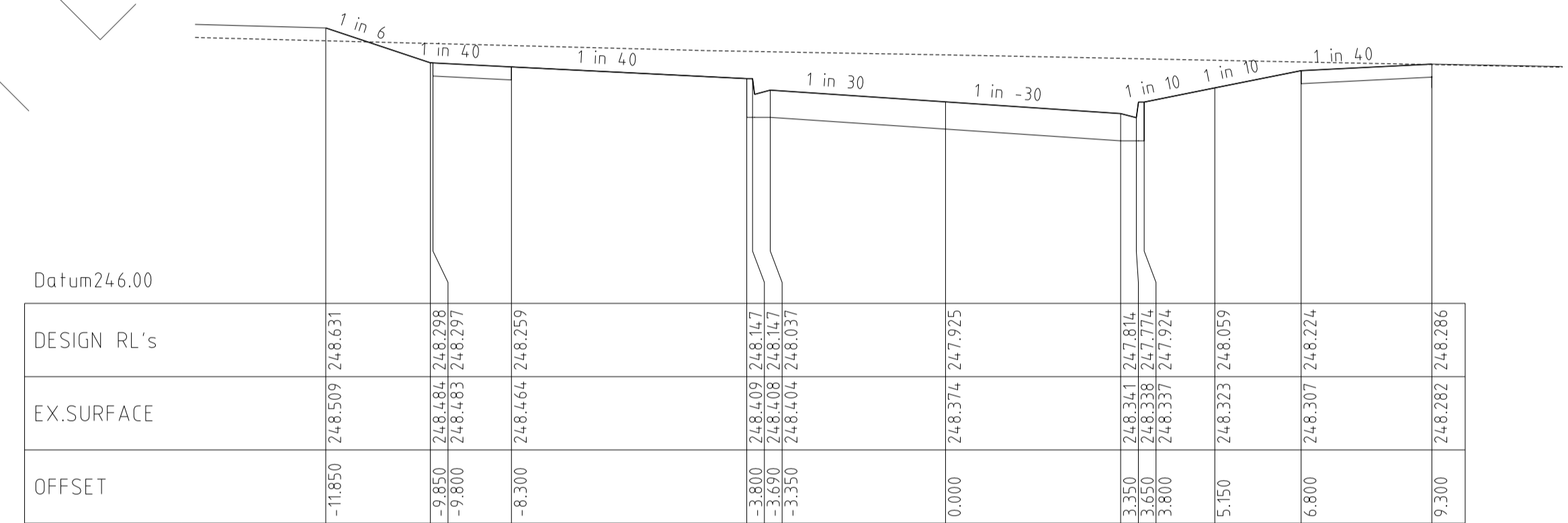
Chainage 191.56



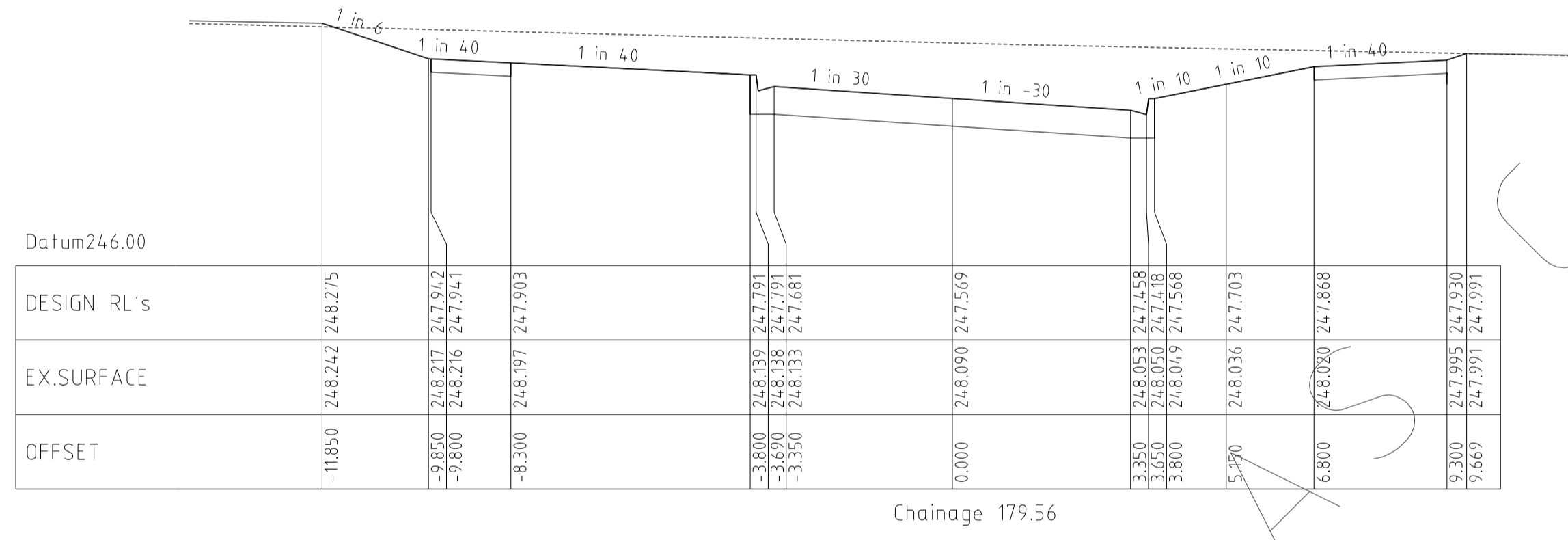
Chainage 208.26



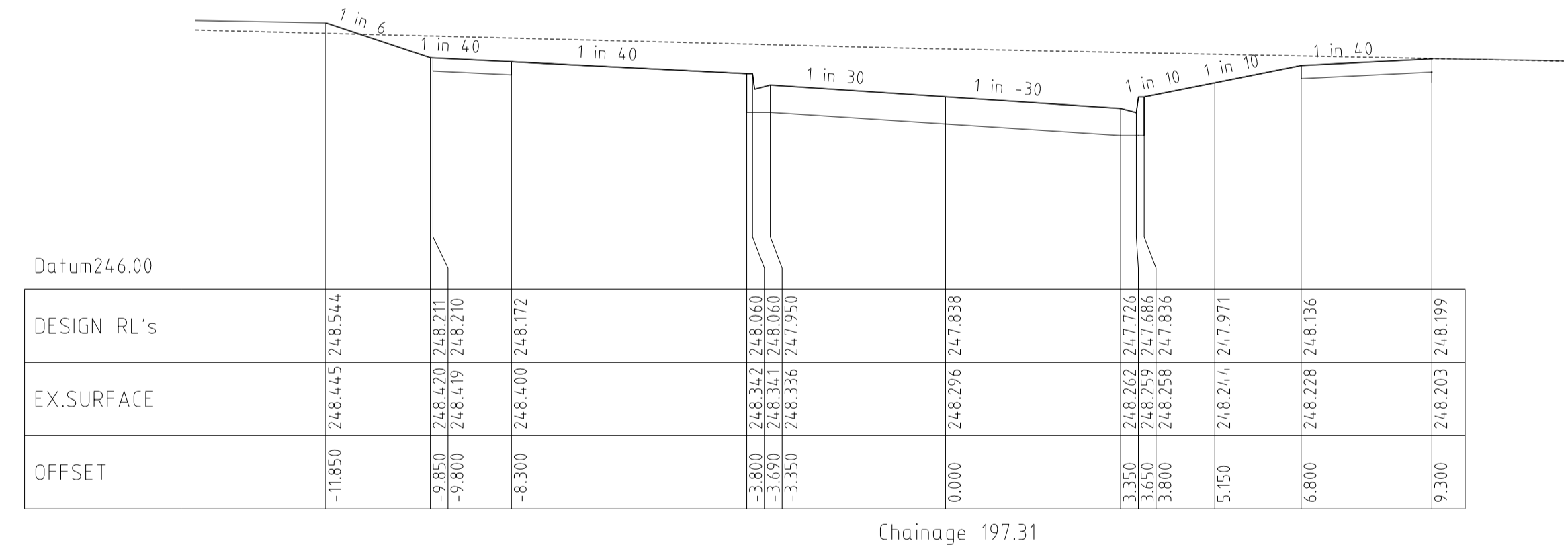
Chainage 185.56



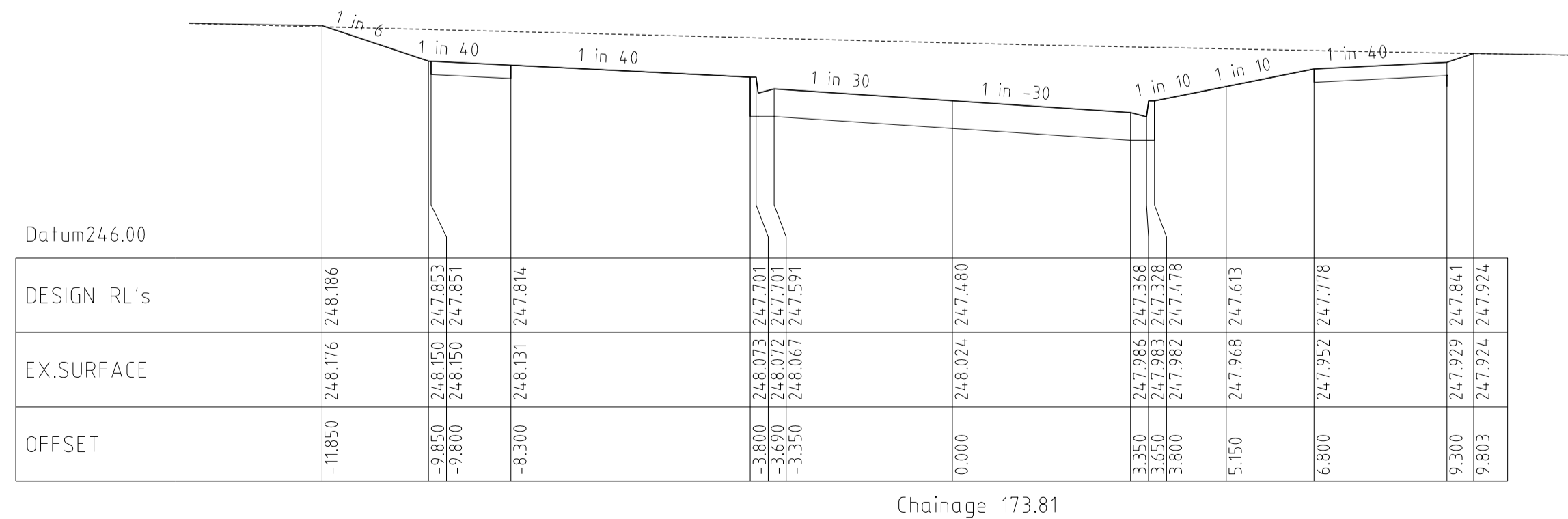
Chainage 203.06



Chainage 179.56



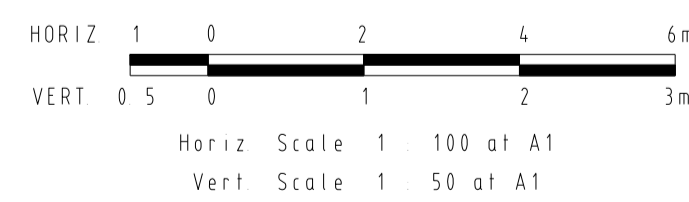
Chainage 197.31



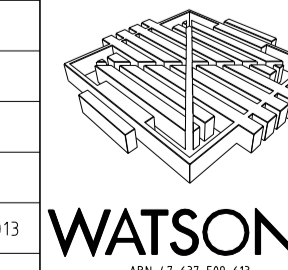
Chainage 173.81

NOT TO BE CONSTRUCTED

ROSETTE PARADE CROSS SECTIONS



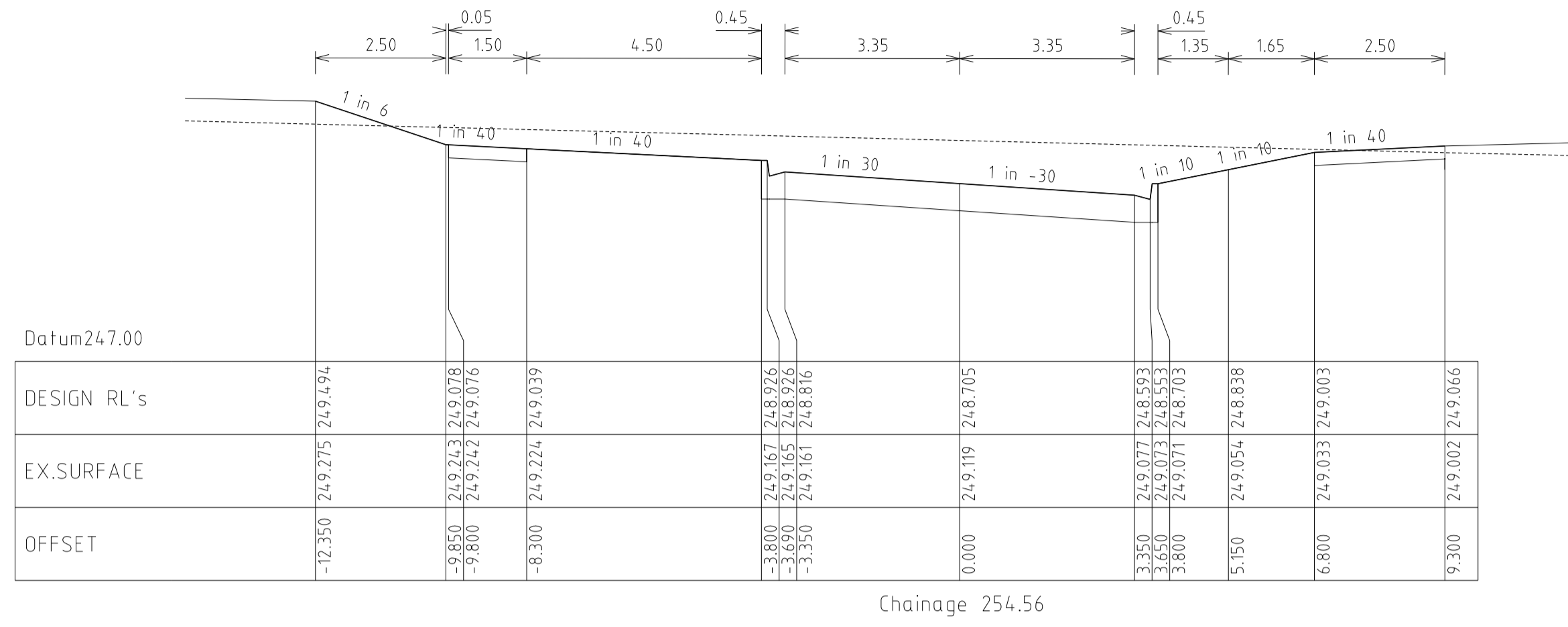
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
8/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC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



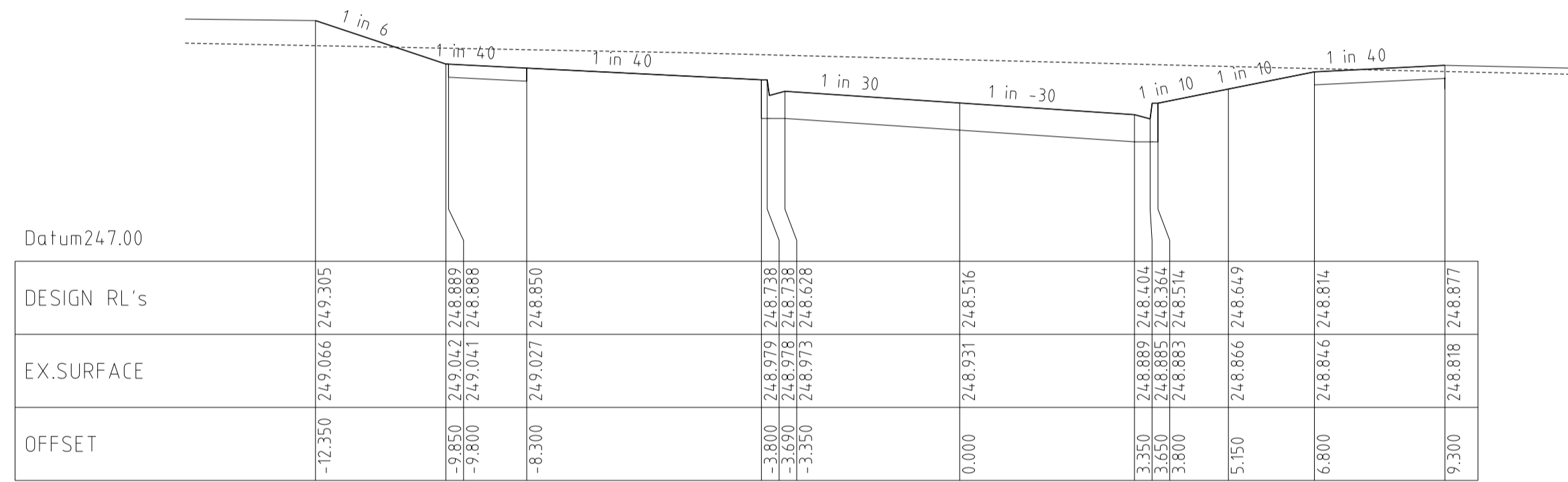
MORNINGTON
 5 Main Street
 P.O. Box 171 3911
 Phone (03) 5975 4444
 Fax (03) 5975 3916
 DX 93118 Mornington

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

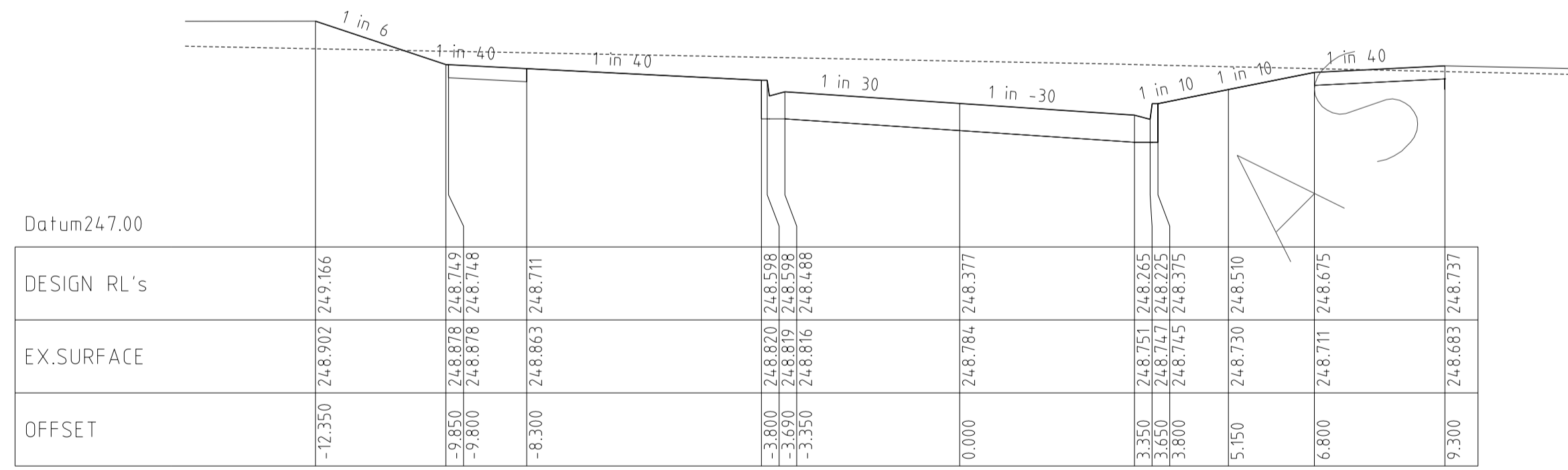
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R12
ROSETTE PARADE CROSS SECTIONS		REVISION N
		SHEET 12 OF 27



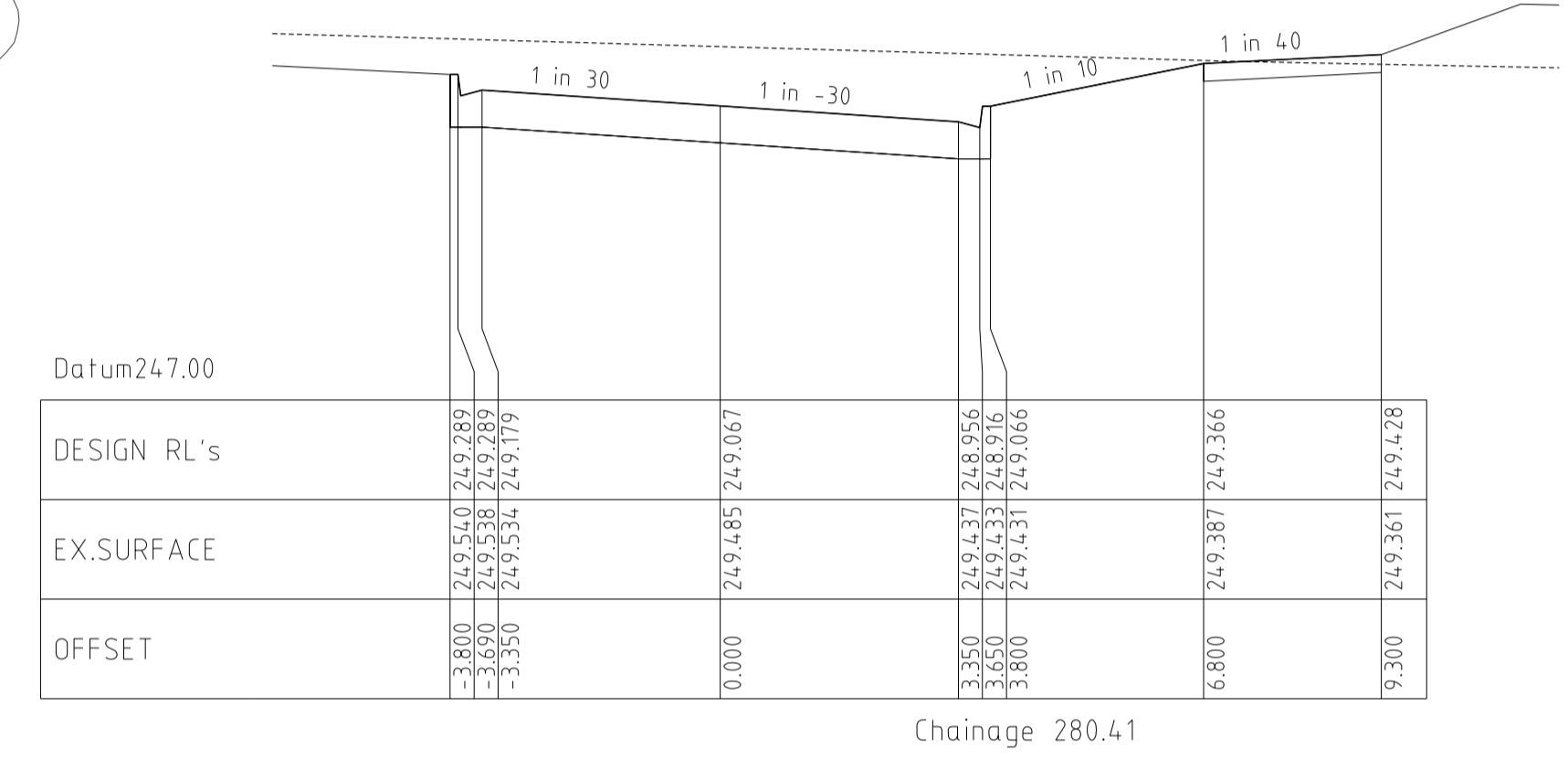
Chainage 254.56



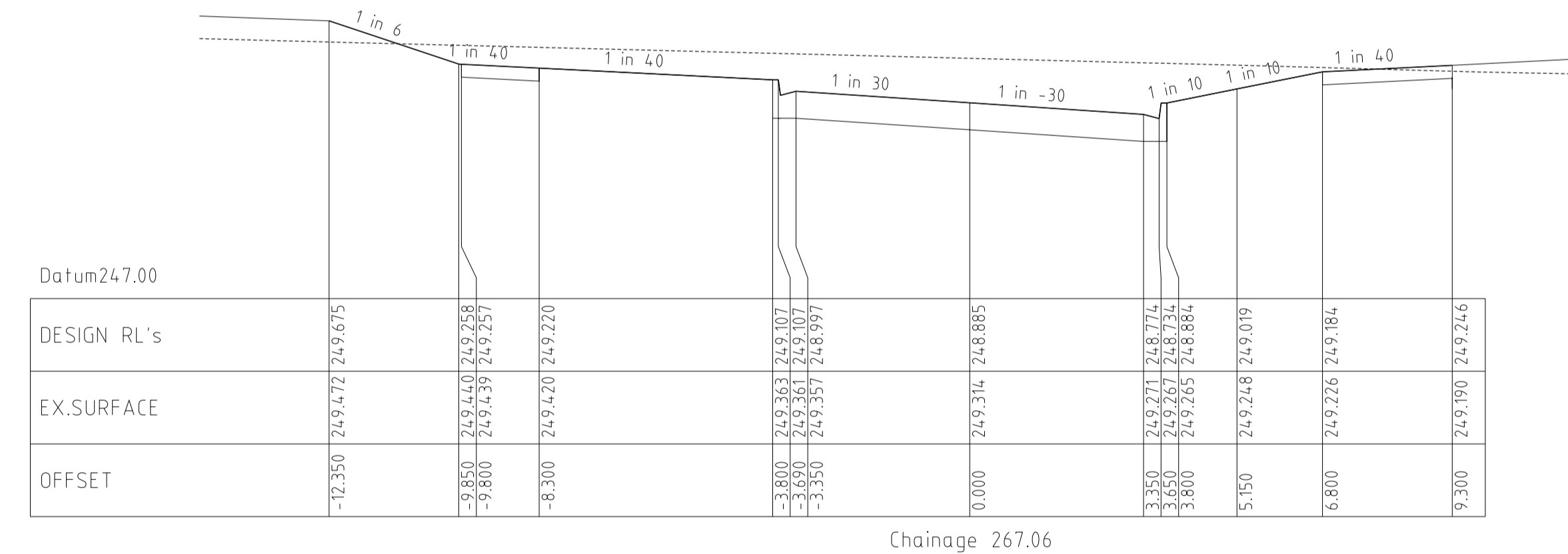
Chainage 242.06



Chainage 232.86



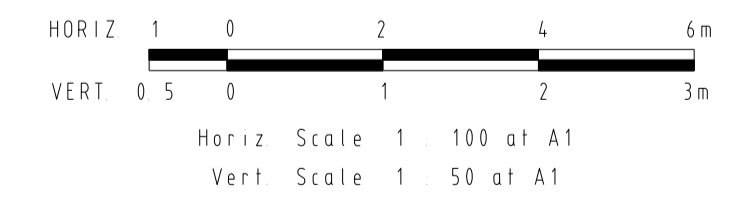
Chainage 280.41



Chainage 267.06

CONSTRACTED

ROSETTE PARADE CROSS SECTIONS



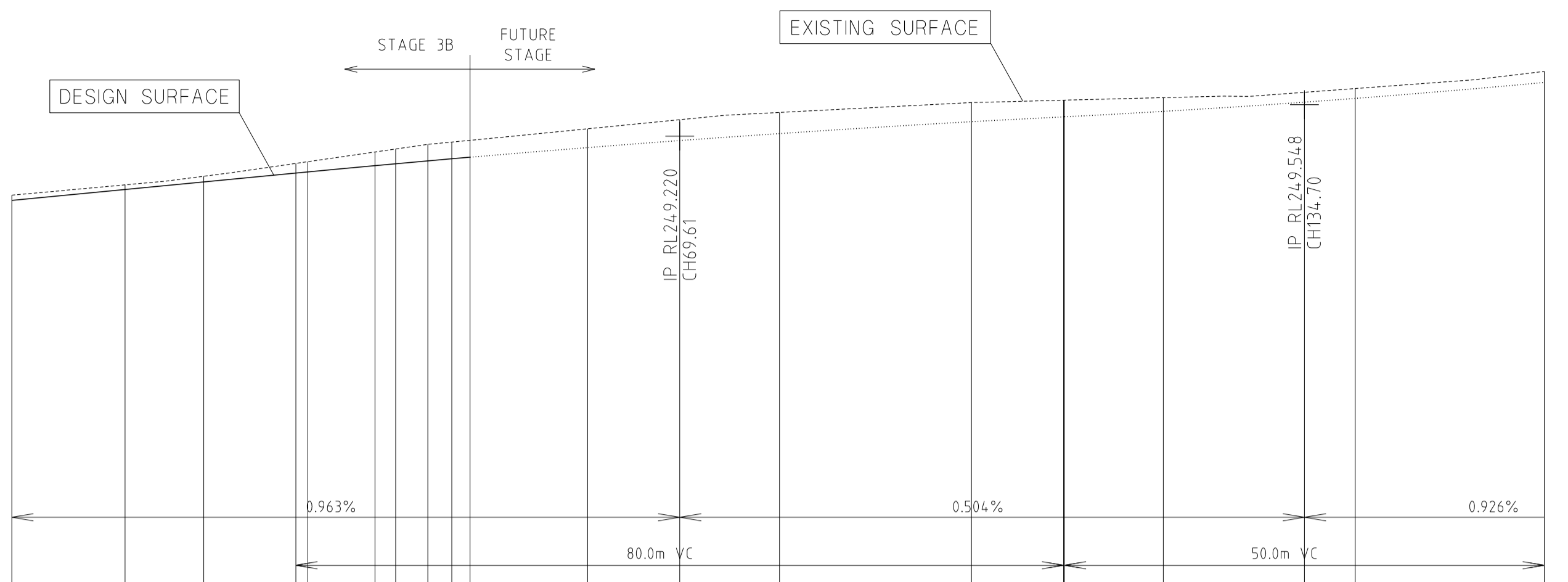
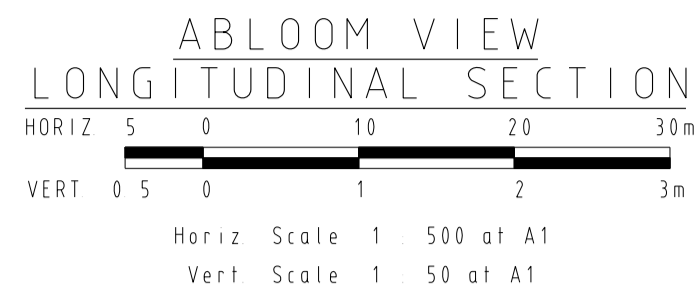
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LT00
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
07/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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\13.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
 15 Main Street
 P.O. Box 171 3911
 Phone: (03) 5975 4444
 Fax: (03) 5975 3916
 DX: 93118 Mornington

MELBOURNE
 The Melbourne, Suite 2
 25 St. Kilda Road
 Melbourne, 3002
 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



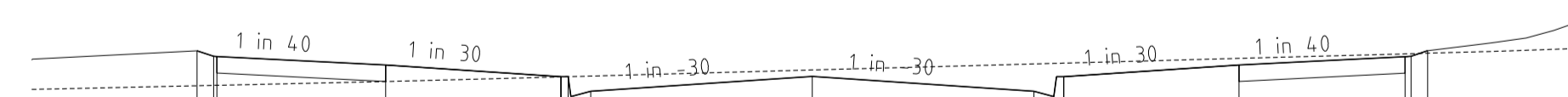
Horizontal Geometry
Vertical Grade
VC length

CHAINAGES	0.00	11.80	20.00	29.61	30.85	37.85	40.00	43.35	45.85	47.75	60.00	69.61	80.00	100.00	109.61	109.70	120.00	134.70	140.00	159.70
DESIGN CENTRELINE	248.550	248.664	248.743	248.835	248.847	248.912	248.932	248.962	248.984	249.000	249.101	249.174	249.247	249.370	249.421	249.422	249.478	249.574	249.613	249.779
EXISTING SURFACE	248.60	248.71	248.80	248.94	248.95	249.05	249.09	249.13	249.16	249.18	249.30	249.39	249.47	249.57	249.59	249.59	249.62	249.68	249.72	249.90



CHAINAGE	0.00	3.35	6.45	7.95	8.45
DESIGN RL's	248.847	248.845	248.934	248.971	249.049
EX.SURFACE	248.847	248.845	248.934	248.971	249.049
OFFSET	0.000	-3.800	-6.450	-7.950	-8.459

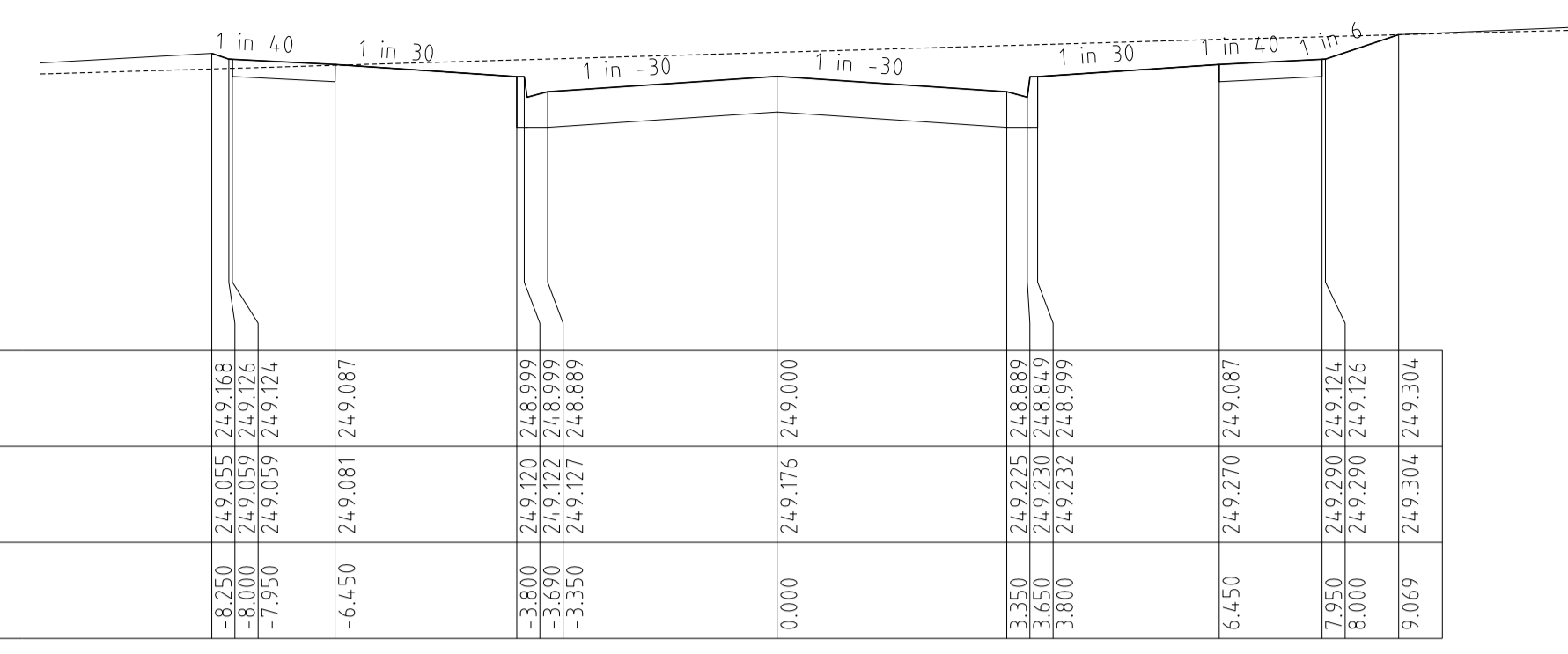
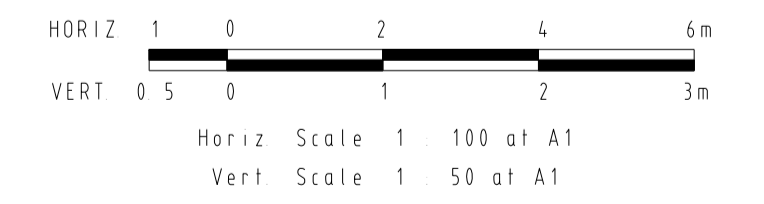
Chainage 30.85



CHAINAGE	0.00	3.35	6.45	8.95	9.30
DESIGN RL's	248.664	248.652	248.730	248.813	248.898
EX.SURFACE	248.664	248.652	248.730	248.813	248.898
OFFSET	0.000	-3.350	-6.450	-8.959	-9.300

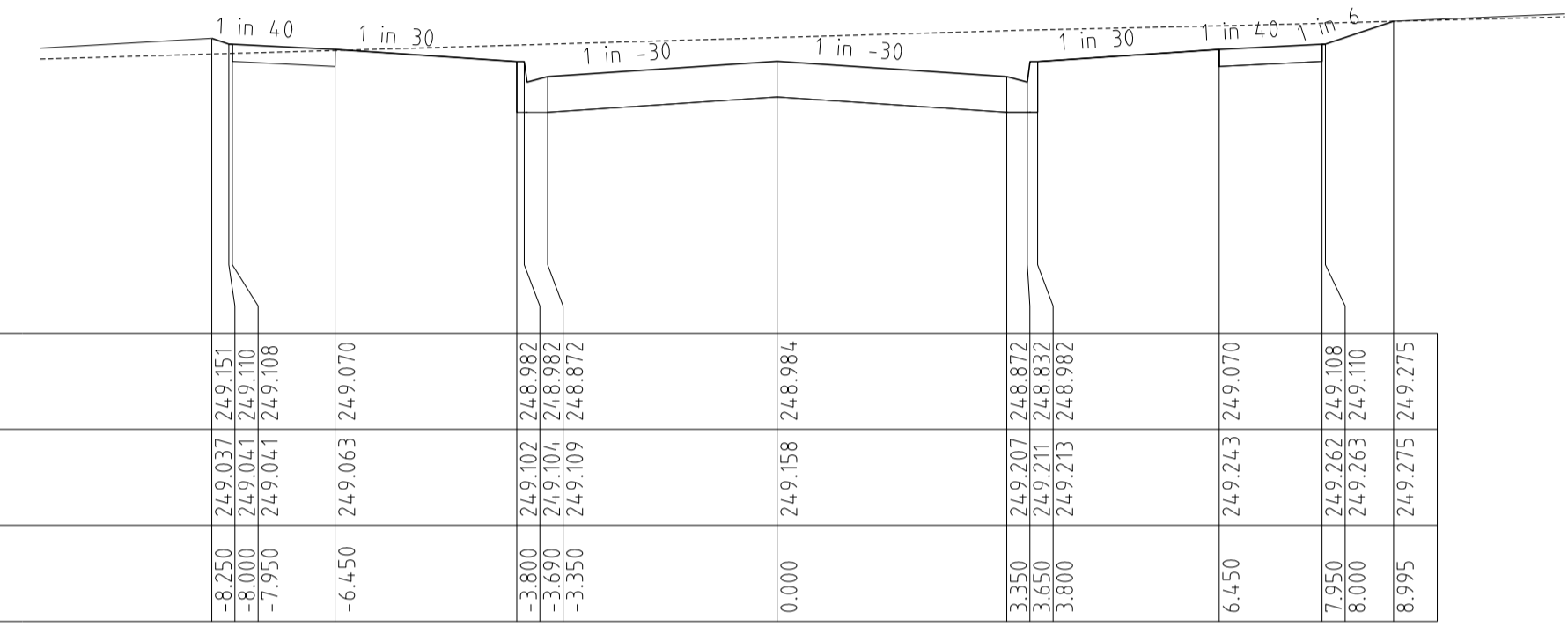
Chainage 11.80

**ABLOOM VIEW
CROSS SECTIONS**



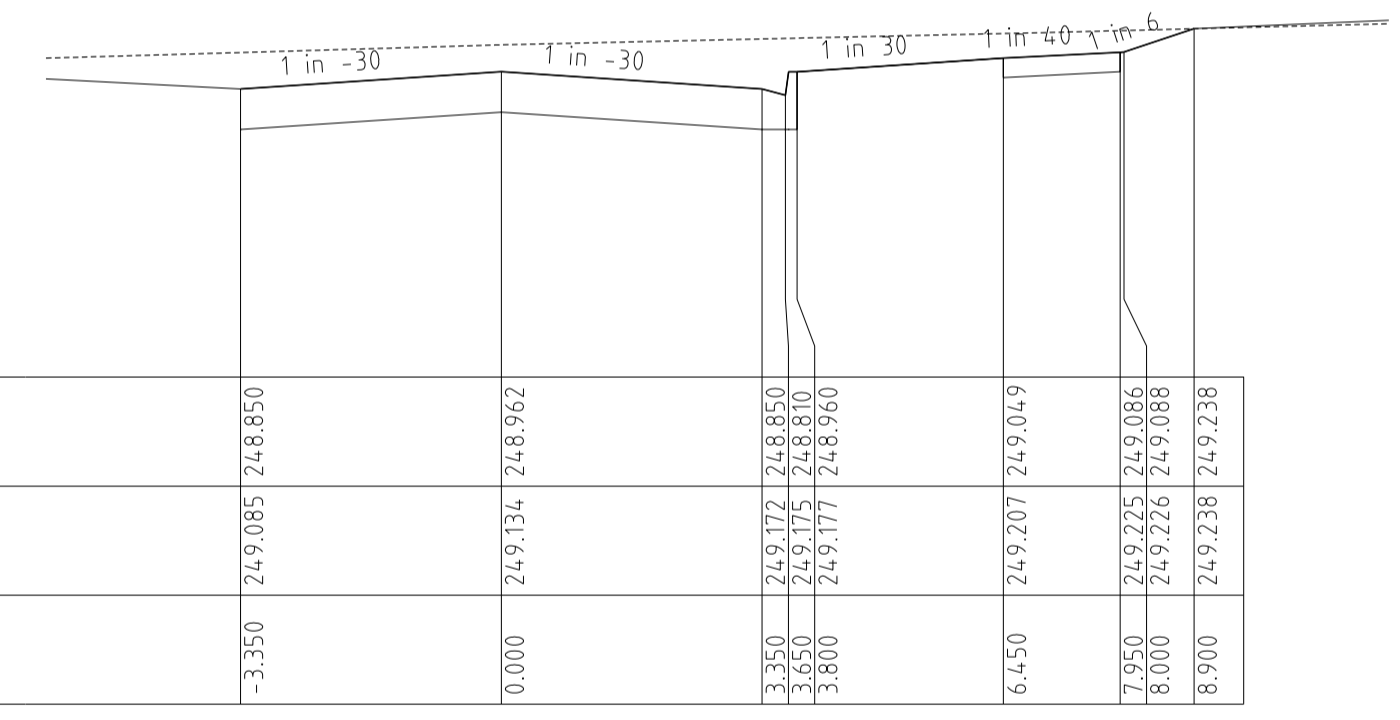
CHAINAGE	0.000	3.350	3.600	3.650	3.800	6.450	7.950	8.000	8.069
DESIGN RL's	249.000	249.166	249.087	249.087	249.087	249.087	249.166	249.166	249.304
EX.SURFACE	249.000	249.166	249.087	249.087	249.087	249.087	249.166	249.166	249.304
OFFSET	0.000	-3.350	-3.600	-3.650	-3.800	0.000	-6.450	-8.000	-9.069

Chainage 47.75



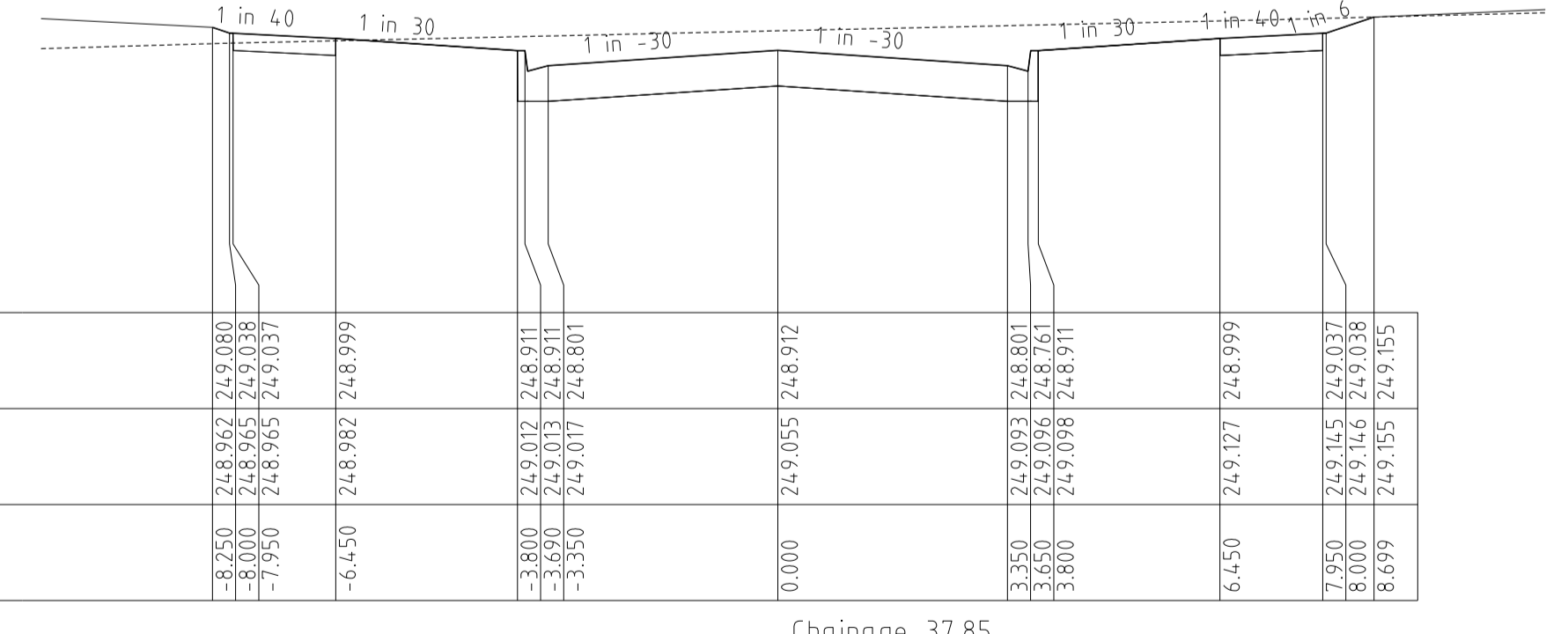
CHAINAGE	0.000	3.350	3.600	3.650	3.800	6.450	7.950	8.000	8.995
DESIGN RL's	248.984	249.070	249.070	249.070	249.070	249.070	249.070	249.110	249.275
EX.SURFACE	248.984	249.070	249.070	249.070	249.070	249.070	249.070	249.110	249.275
OFFSET	0.000	-3.350	-3.600	-3.650	-3.800	0.000	-6.450	-8.000	-8.995

Chainage 45.85



CHAINAGE	0.000	3.350	3.800	6.450	7.950	8.000	8.900
DESIGN RL's	248.962	248.962	248.962	249.049	249.086	249.086	249.238
EX.SURFACE	248.962	248.962	248.962	249.049	249.086	249.086	249.238
OFFSET	0.000	-3.350	-3.800	6.450	7.950	8.000	8.900

Chainage 43.35



CHAINAGE	0.000	3.350	3.600	3.650	3.800	6.450	7.950	8.000	8.699
DESIGN RL's	248.999	248.912	248.912	248.912	248.912	248.999	248.999	249.037	249.155
EX.SURFACE	248.999	248.912	248.912	248.912	248.912	248.999	248.999	249.037	249.155
OFFSET	0.000	-3.350	-3.600	-3.650	-3.800	6.450	7.950	8.000	8.699

Chainage 37.85

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
07/10/13	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\14.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
5 Main Street,
P.O. Box 113 3911
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

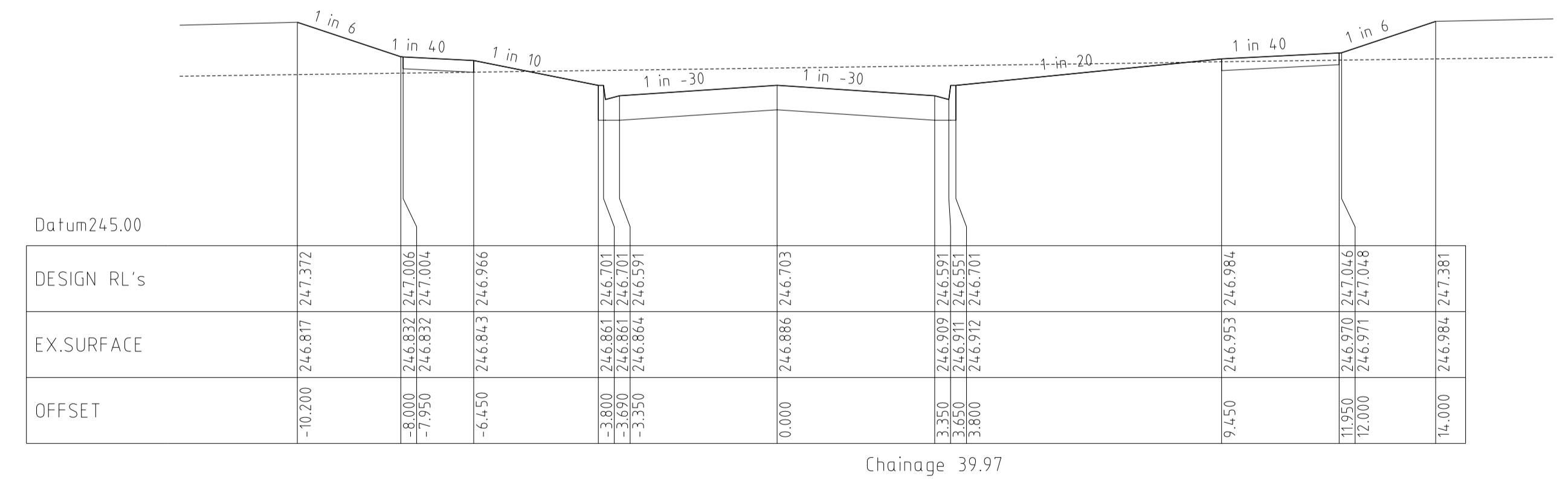
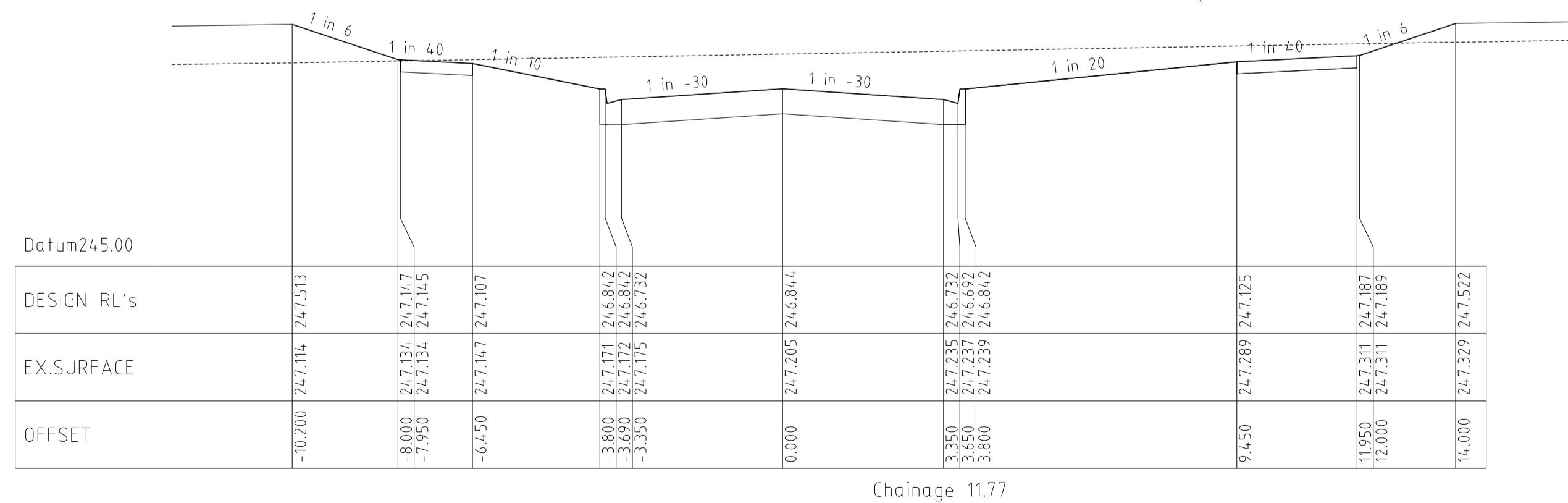
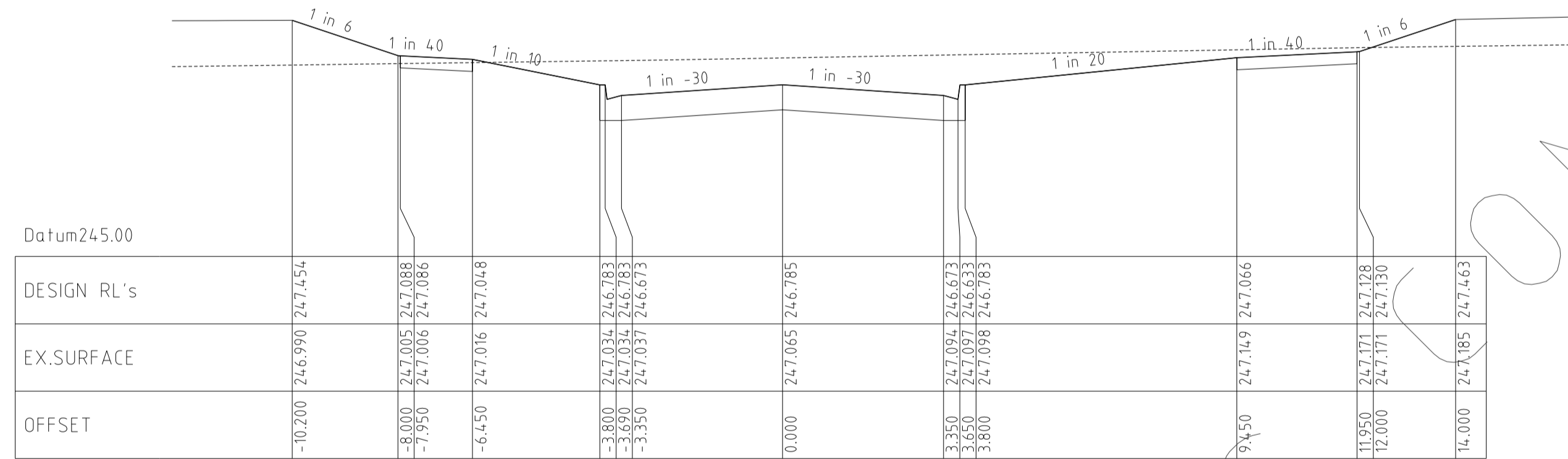
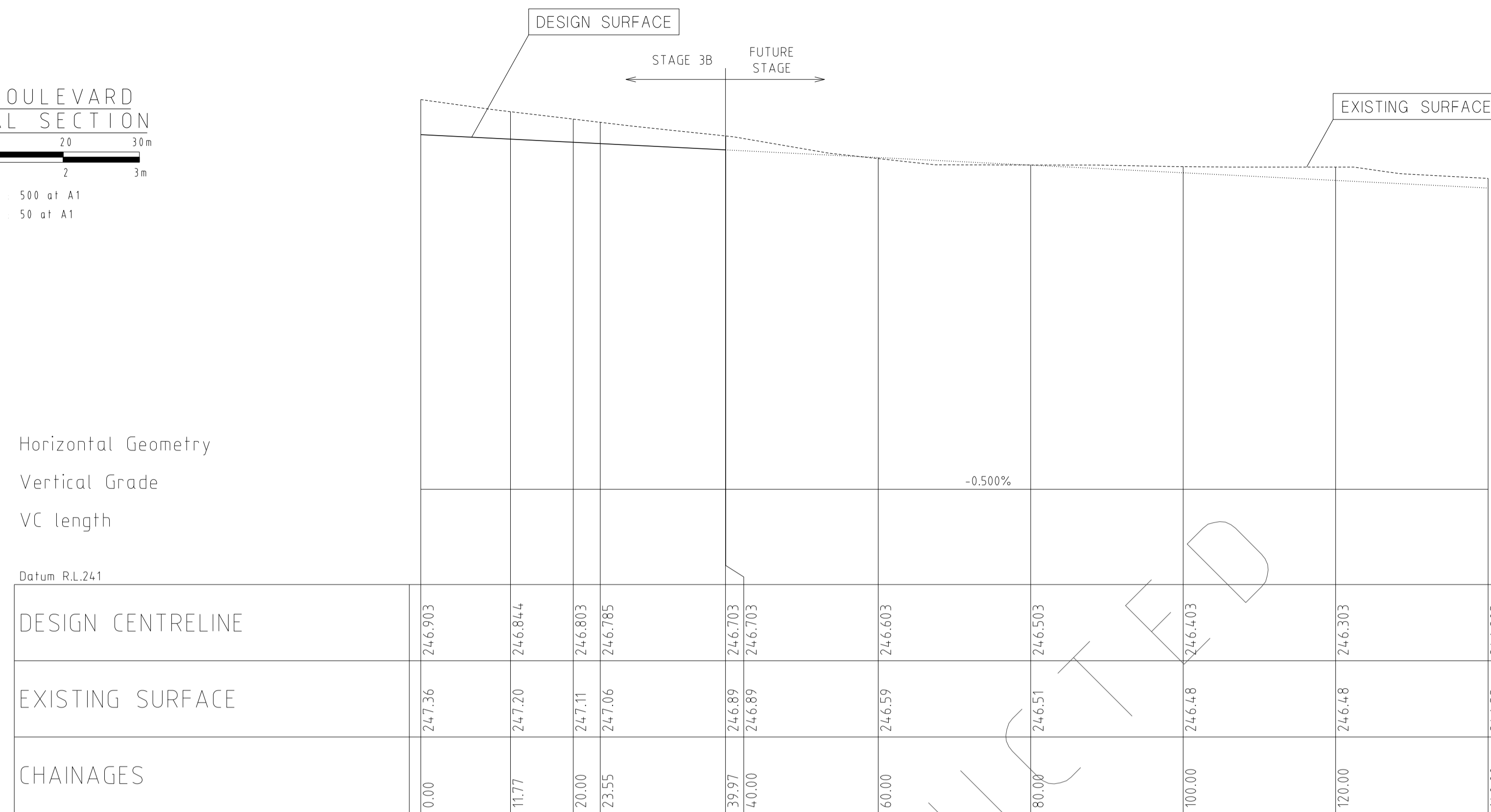
MELBOURNE
The Melbourne, Suite 2
25 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9497 8000
Fax: (03) 9497 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R14
ABLOOM VIEW LONGITUDINAL & CROSS SECTIONS		REVISION N
		SHEET 14 OF 27

OLEANDER BOULEVARD
LONGITUDINAL SECTION

HORIZ 0 5 10 20 30m
VERT 0 5 10 20 30m

Horiz Scale 1 : 500 at A1
Vert Scale 1 : 50 at A1

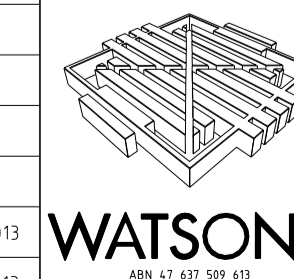


OLEANDER BOULEVARD
CROSS SECTIONS

HORIZ 0 1 2 4 6m
VERT 0 5 10 20 30m

Horiz Scale 1 : 100 at A1
Vert Scale 1 : 50 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\LT.OPO
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	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\17.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
5 Main Street
P.O. Box 111 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

MELBOURNE
The Melbourne Suite 2
250 St. Kilda Road
Melbourne, 3002
Phone: (03) 9497 8000
Fax: (03) 9497 8099

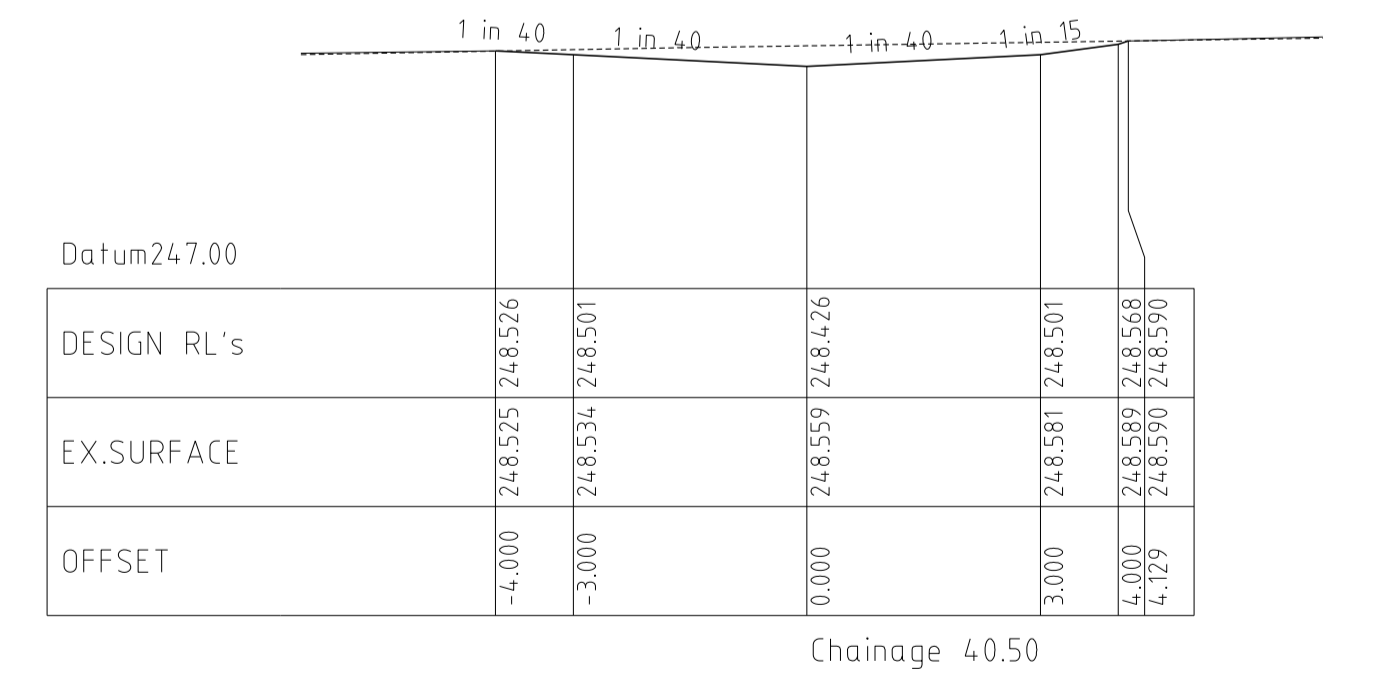
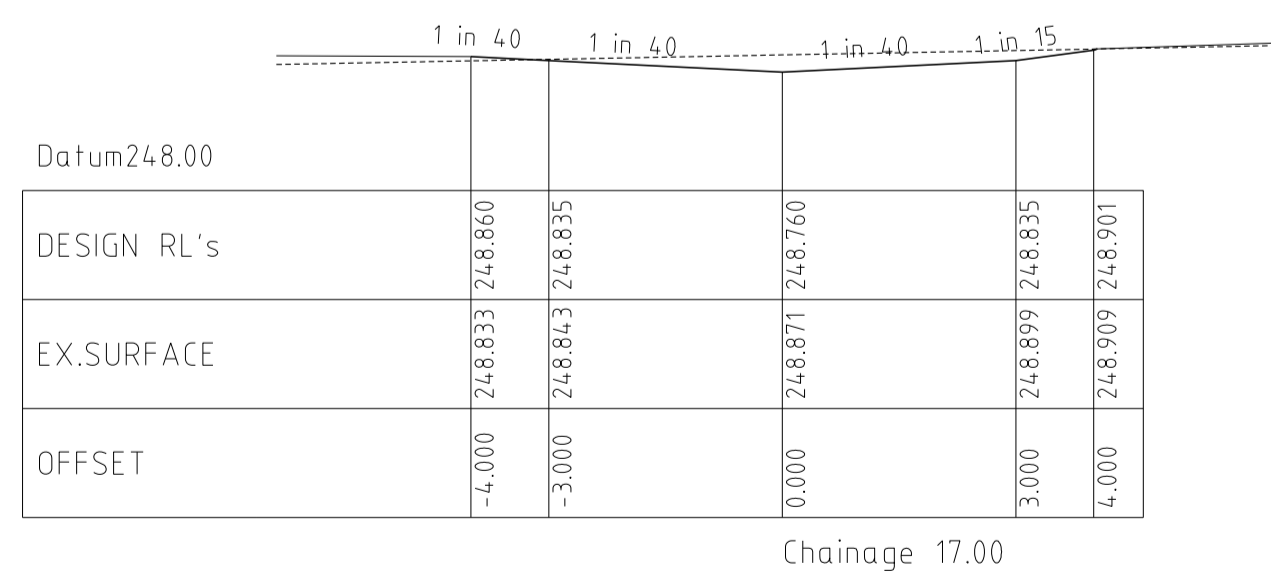
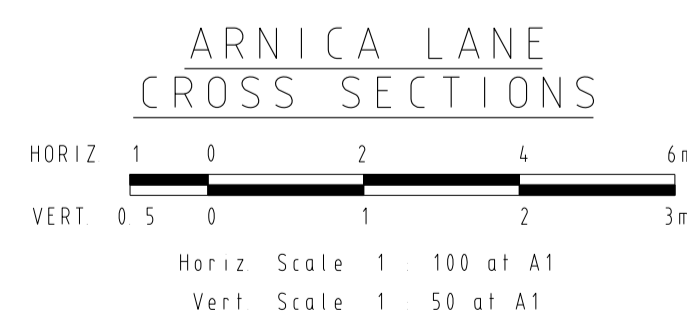
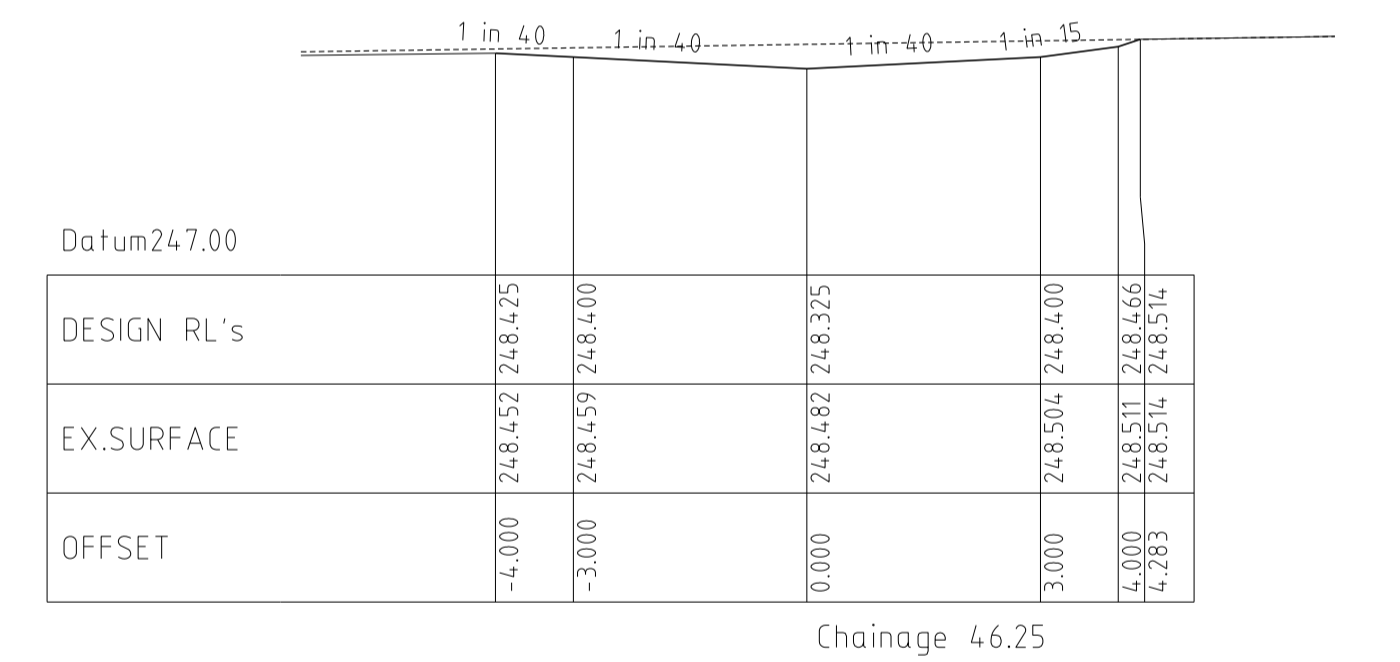
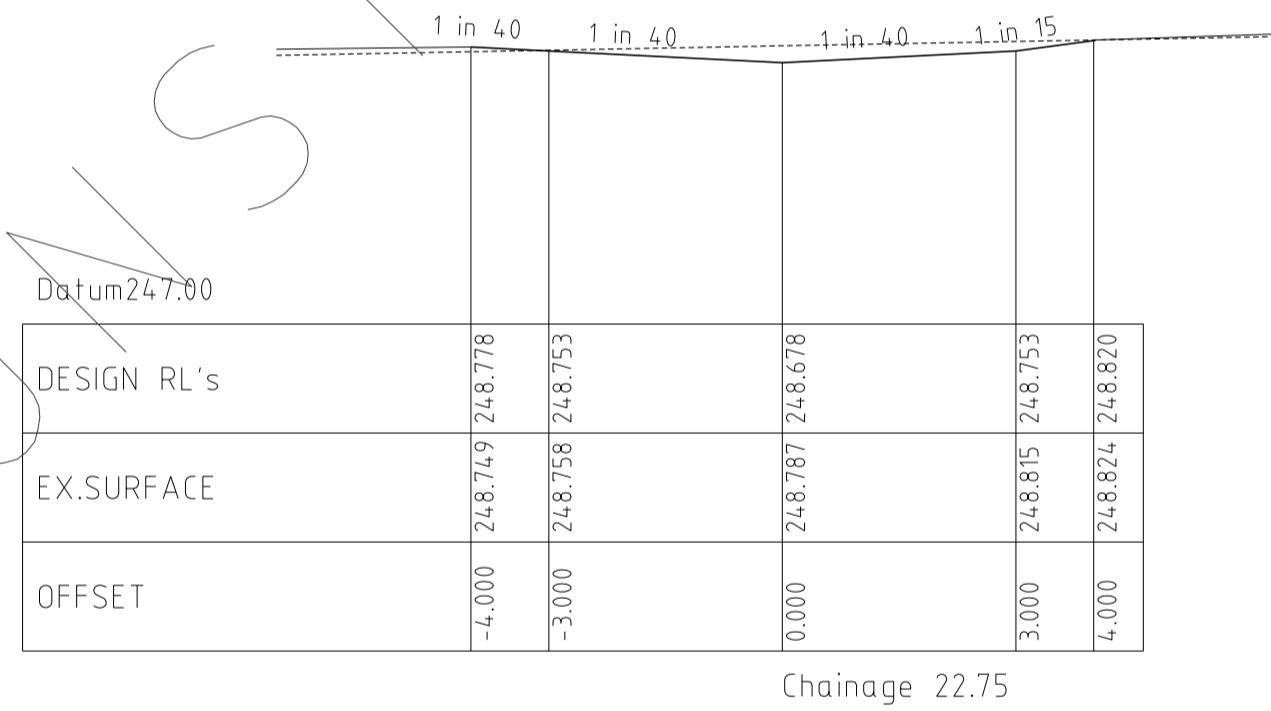
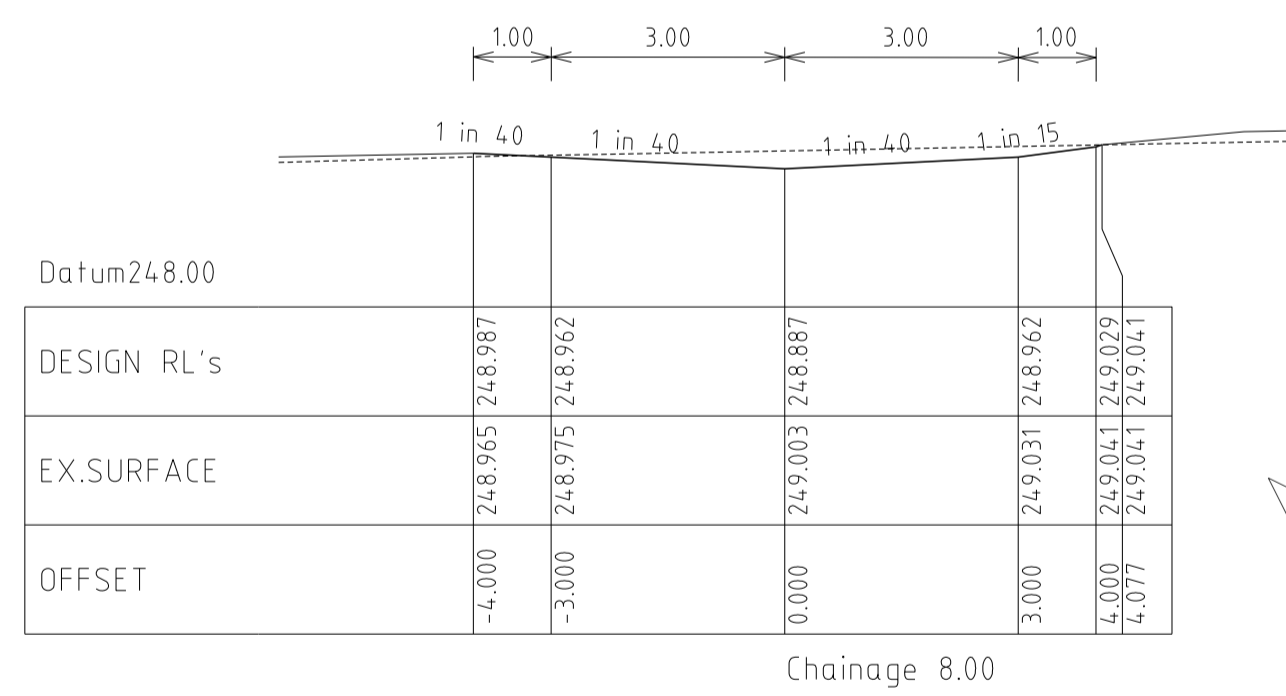
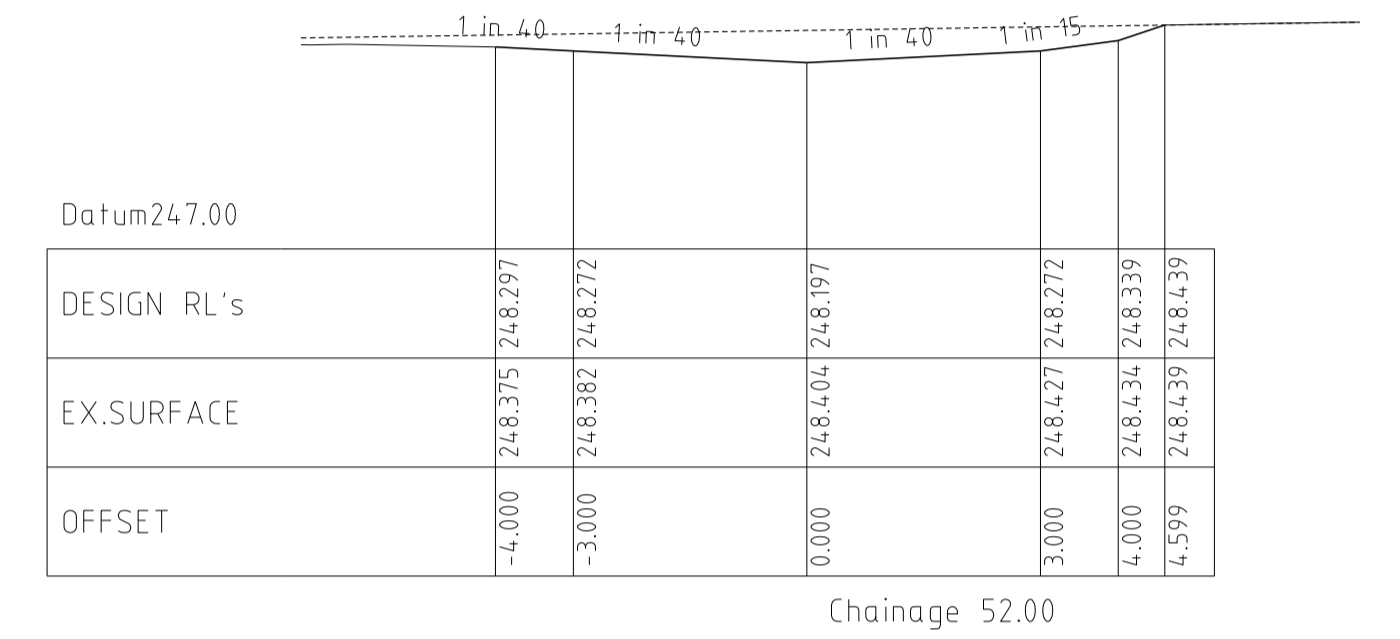
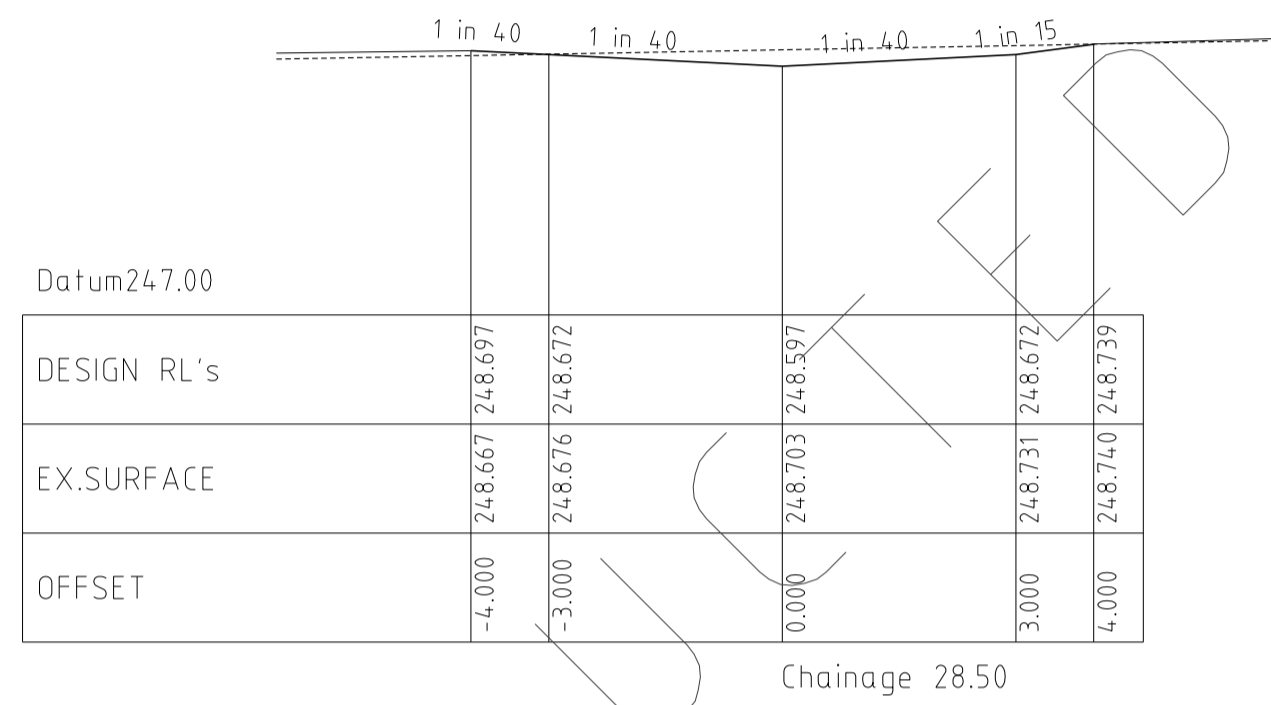
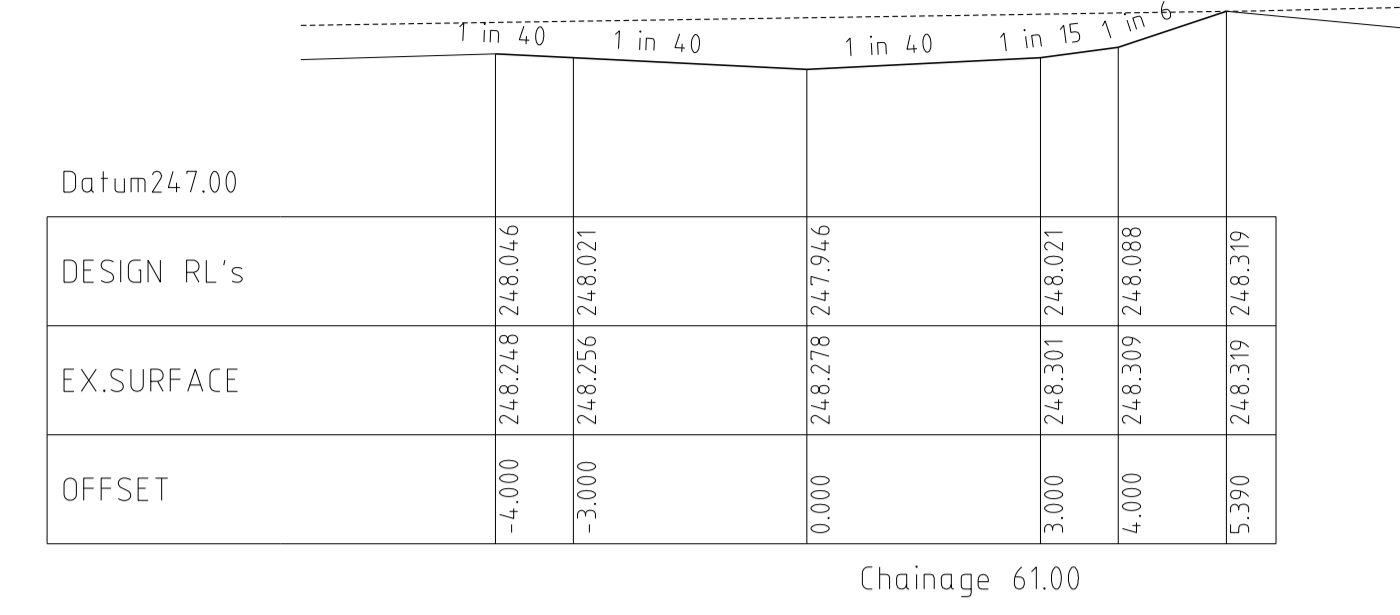
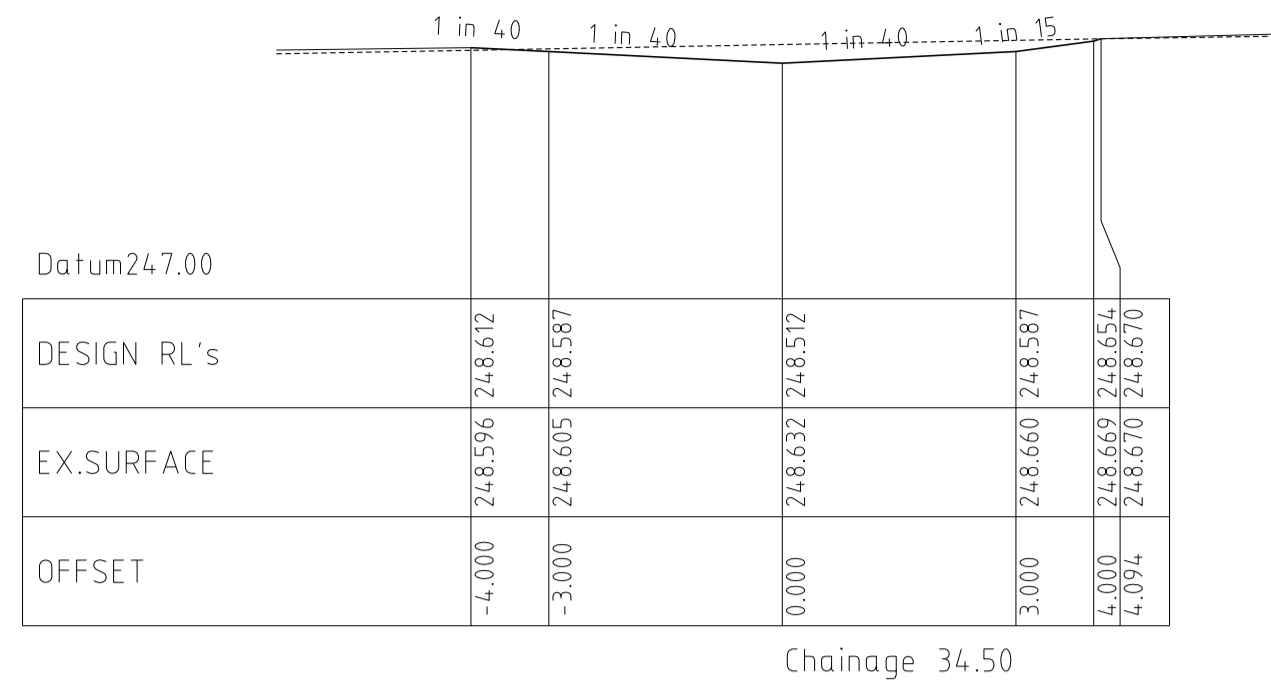
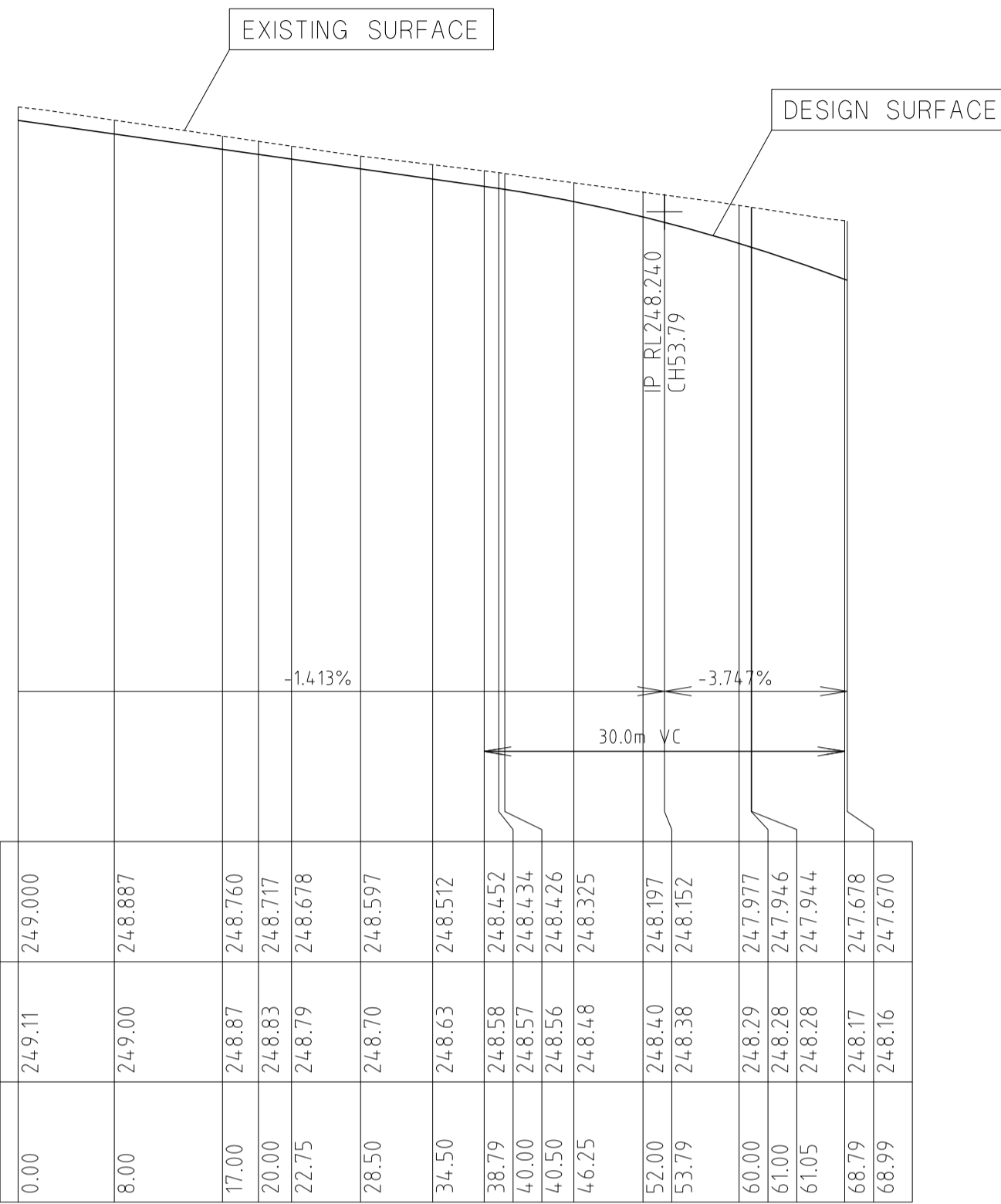
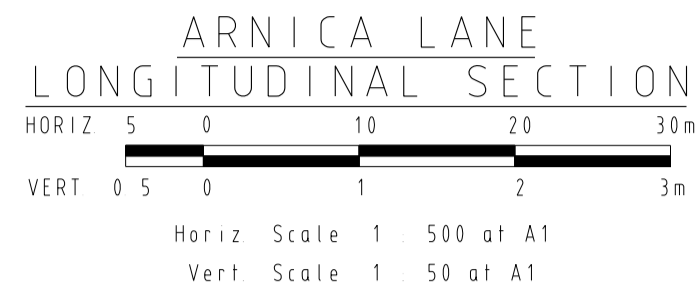
HUME CITY COUNCIL
VILLAWOOD PROPERTIES P/L
TRILLIUM STAGE 3B
MICKLEHAM
ROAD AND DRAINAGE PLANS

PLAN NUMBER
36182/3B
R17

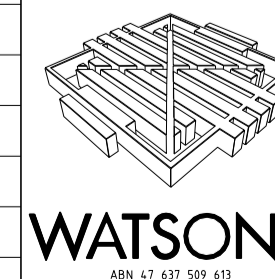
OLEANDER BOULEVARD
LONGITUDINAL & CROSS SECTIONS

REVISION N

SHEET 17 OF 27



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\r18.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

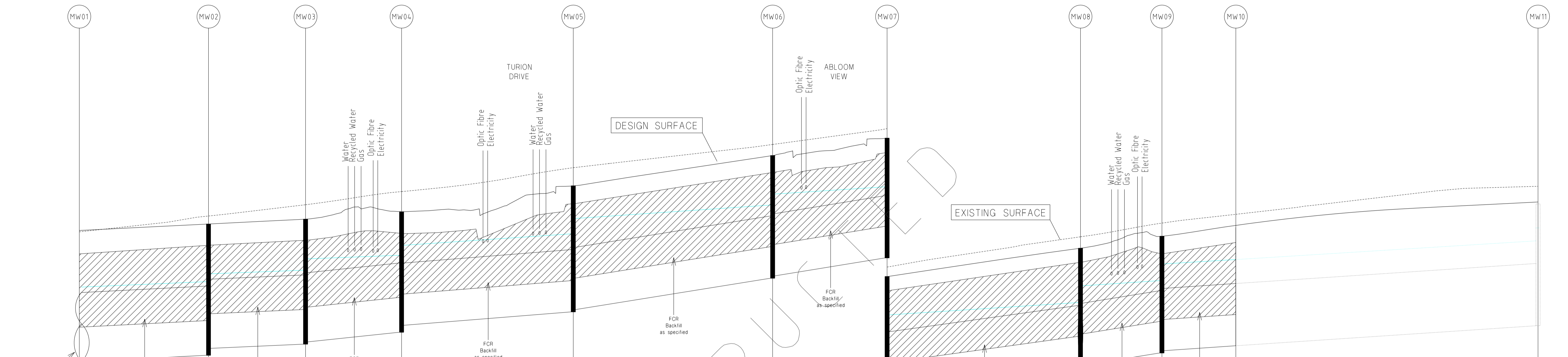
MELBOURNE
The Melbourne Suite 2
250 St. Kilda Road
Melbourne, 3002
Phone: (03) 9497 8000
Fax: (03) 9497 8099

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

PLAN NUMBER
36182/3B
R18

ARNICA LANE
LONGITUDINAL & CROSS SECTIONS

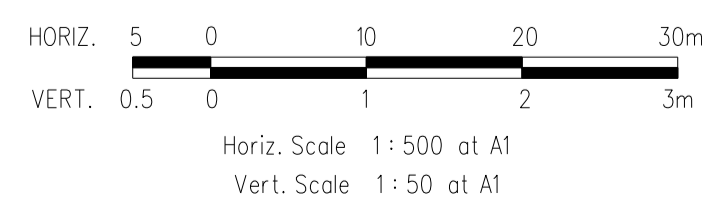
REVISION **N**
SHEET 18 OF 27



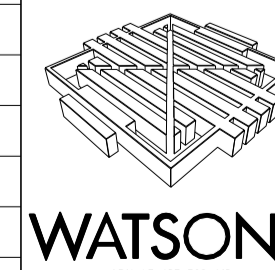
	MW01	MW02	MW03	MW04	MW05	MW06	MW07	MW08	MW09	MW10	MW11
CAPACITY (m3/s)		5.001	4.627	7.104	4.714	6.699	6.696	6.227	6.605	4.346	4.347
FLOW (m3/s)		4.568	4.330	4.341	4.371	4.377	4.244	4.265	4.266	4.117	4.195
VELOCITY (m/s)		3.207	2.975	4.219	3.738	4.987	4.950	4.683	4.904	3.453	3.458
PIPE SIZE (mm)		1500RCP	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		245.220 245.388	245.505 245.675	245.754 245.999	246.078 246.293	246.543 246.876	247.164 247.401	247.557 247.782	248.049 248.411	248.524 248.887	249.386 249.605
H.G.L. LEVELS		243.720 243.770	243.910 244.060	244.150 244.200	244.410 244.560	244.850 244.900	245.580 245.630	246.020 246.070	246.640 246.690	246.960 247.010	247.550 247.605
INVERT LEVELS		243.720 243.770	243.910 244.060	244.150 244.200	244.410 244.560	244.850 244.900	245.580 245.630	246.020 246.070	246.640 246.690	246.960 247.010	247.550 247.605
FINISHED SURFACE LEVELS		246.615	246.755	246.860	247.020	247.582	248.239	248.616	249.230	249.489	250.615
CHAINAGE (LENGTH)	0.000	28.000	49.025	69.835	107.040	150.240	175.040	216.954	234.601	250.615	316.094

DRAINAGE LONGITUDINAL SECTIONS

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



REVISIONS			SCALE:
DATE	DETAILS	AUTHORISED	AS SHOWN
14/02/14	N	AS CONSTRUCTED	DATE PRINTED: 14/02/2014
22/01/14	M	PARK PATHWAY AMENDMENTS	LEVEL DATA: K:\36182\36182\1\TOPO
08/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	DATUM: AHD
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	PROJECT No.: 36182/3B
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	DRAWN: C.M.B. DATE: MAY 2013
			DESIGNED: Z.W.L. DATE: MAY 2013
			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

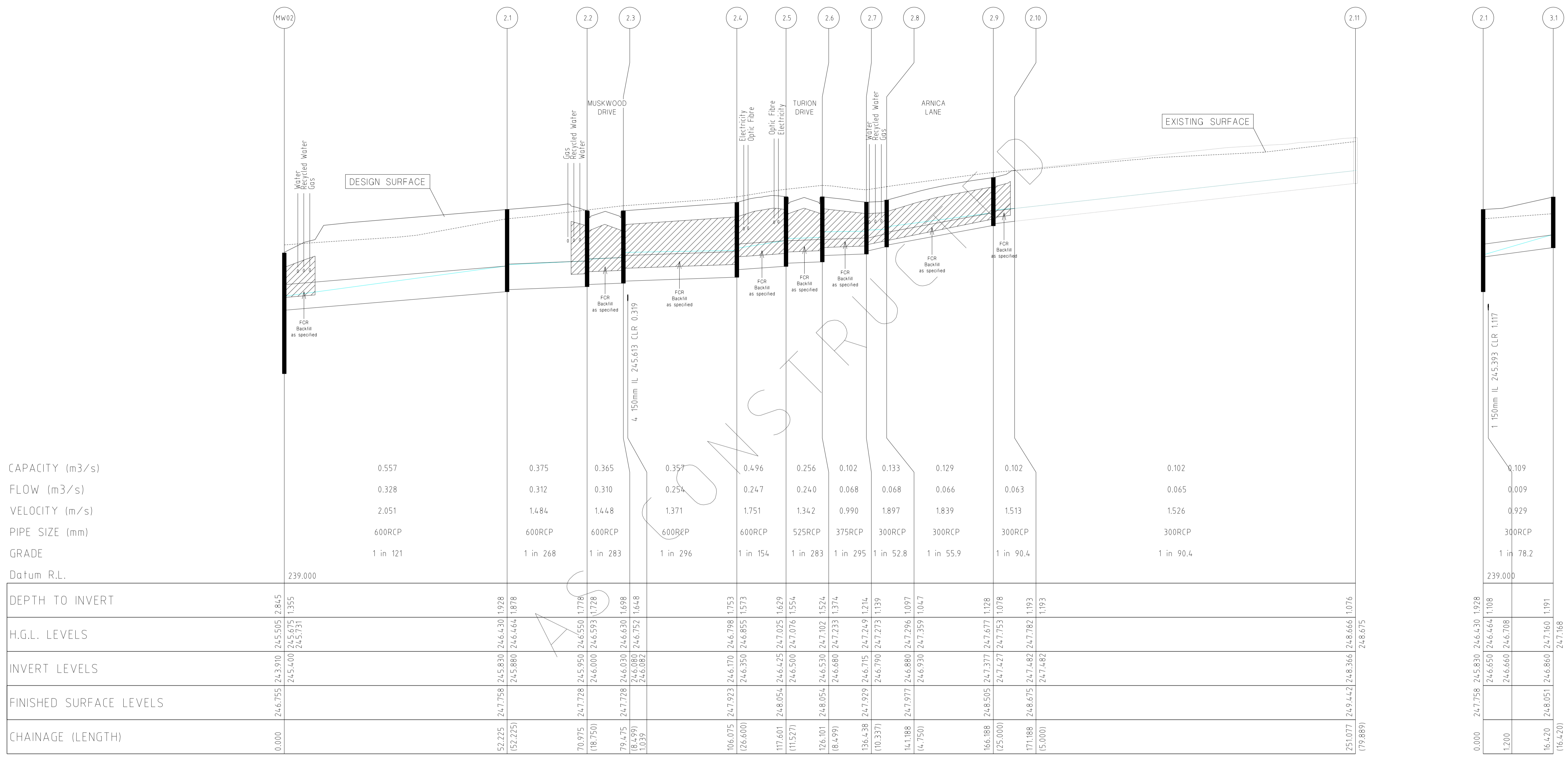
MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road
Melbourne, 3002
Phone: (03) 9697 8000
Fax: (03) 9697 8099

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

PLAN NUMBER
36182/3B
R 19

DRAINAGE LONGITUDINAL SECTION

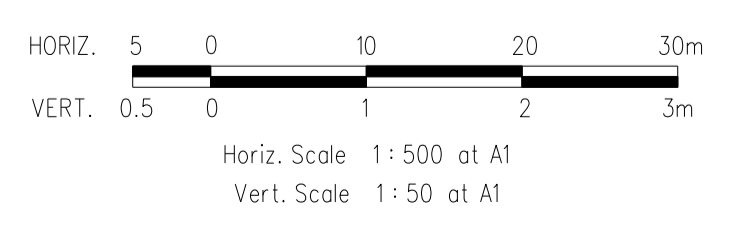
REVISION N
SHEET 19 OF 27



CAPACITY (m3/s)
FLOW (m3/s)
VELOCITY (m/s)
PIPE SIZE (mm)
GRADE
Datum R.L.

DRAINAGE LONGITUDINAL SECTIONS

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



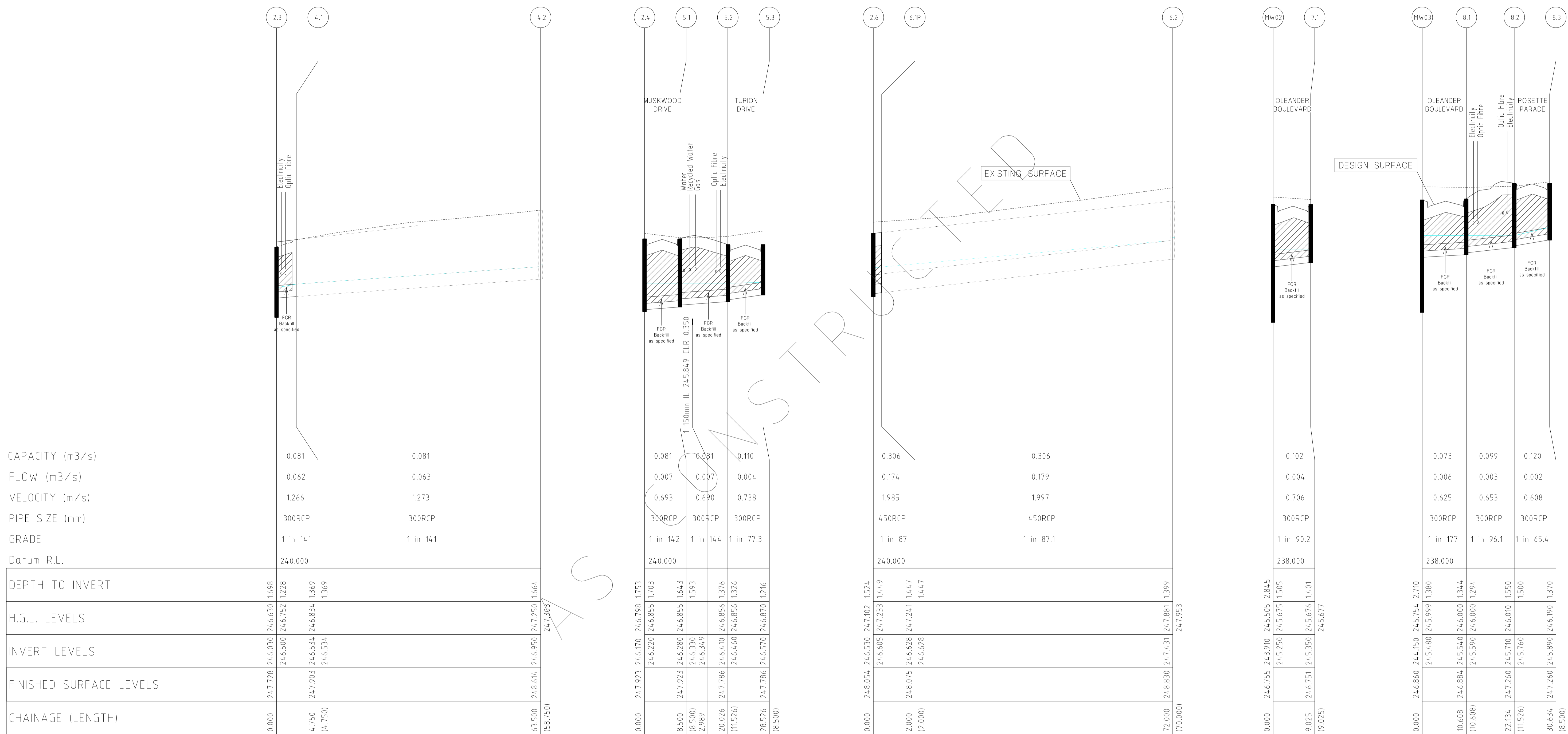
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LT00
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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\r20 .dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
15 Main Street
P.O. Box 111 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX: 93118 Mornington

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road
Melbourne, 3002
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 R20
DRAINAGE LONGITUDINAL SECTIONS		REVISION N
		SHEET 20 OF 27



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
H.G.L. LEVELS	246.500	246.752	1.228	
INVERT LEVELS	246.534	246.534	1.369	
FINISHED SURFACE LEVELS	247.923	246.614	247.250	1.664
CHAINAGE (LENGTH)	0.000	4.750	14.750	63.500

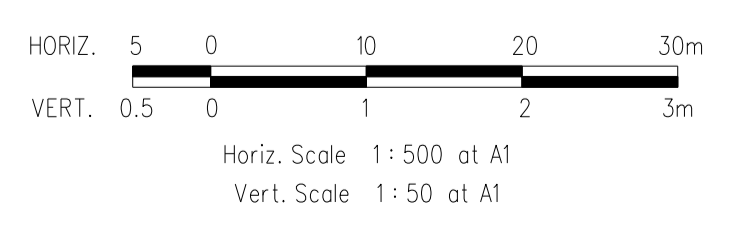
DEPTH TO INVERT	246.220	246.855	1.703	
H.G.L. LEVELS	246.280	246.855	1.643	
INVERT LEVELS	246.330	246.349	1.593	
FINISHED SURFACE LEVELS	247.923	246.410	246.856	1.376
CHAINAGE (LENGTH)	8.500	20.026	28.526	

DEPTH TO INVERT	246.605	247.233	1.449	
H.G.L. LEVELS	246.628	247.241	1.447	
INVERT LEVELS	246.628	246.628	1.447	
FINISHED SURFACE LEVELS	248.054	246.530	247.102	1.524
CHAINAGE (LENGTH)	2.000	12.000	72.000	

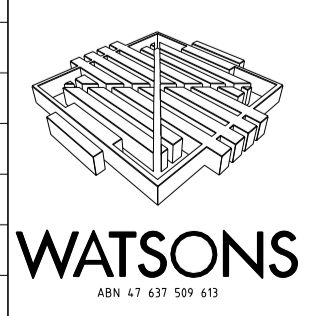
DEPTH TO INVERT	245.250	245.675	1.505	
H.G.L. LEVELS	245.250	245.675	1.505	
INVERT LEVELS	245.350	245.676	1.401	
FINISHED SURFACE LEVELS	246.755	243.910	245.505	2.845
CHAINAGE (LENGTH)	9.025	30.634	18.500	

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

DRAINAGE LONGITUDINAL SECTIONS



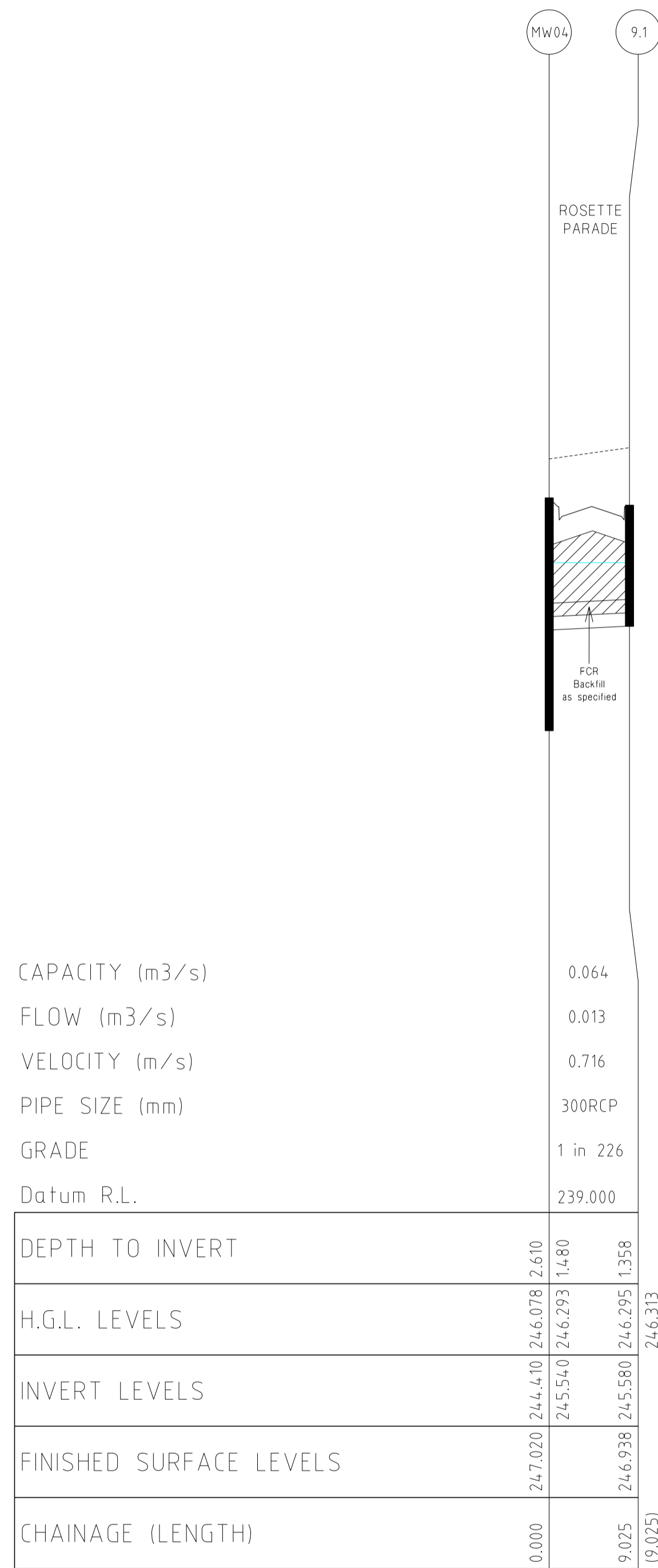
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	ASC	DATUM: AHD
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.: 36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	ASC	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\r21.dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
41-47 5th Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3936
DX: 93118 Mornington

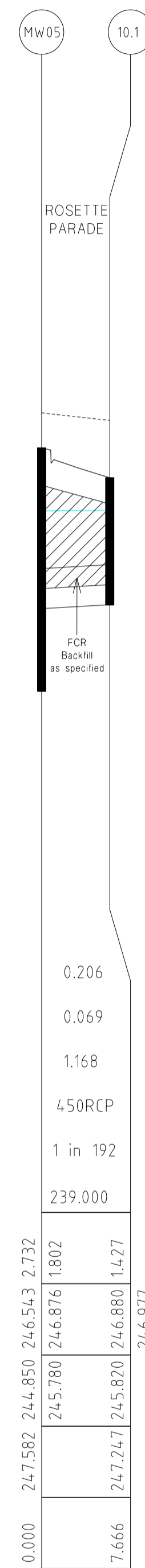
MELBOURNE
The Melbourne Suite 2
250 St. Kilda Road
Melbourne, 3002
Phone: (03) 9697 8000
Fax: (03) 9697 8099

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



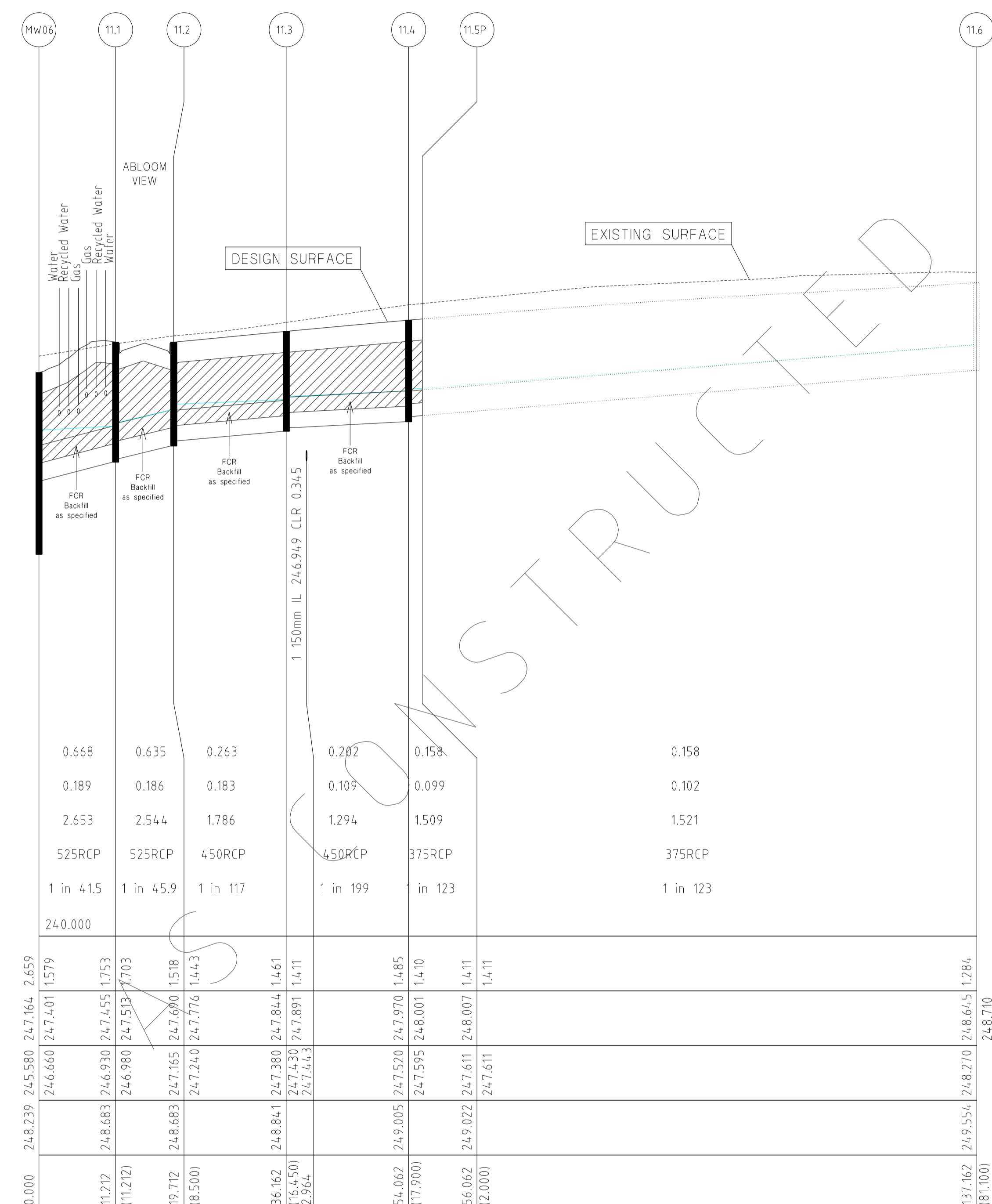
CAPACITY (m3/s)	0.064
FLOW (m3/s)	0.013
VELOCITY (m/s)	0.716
PIPE SIZE (mm)	300RCP
GRADE	1 in 226
Datum R.L.	239.000

DEPTH TO INVERT	246.078	2.610		
H.G.L. LEVELS	244.410	246.078	2.610	
INVERT LEVELS	245.540	246.293	1.480	
FINISHED SURFACE LEVELS	247.020	246.938	246.295	1.358
CHAINAGE (LENGTH)	0.000	9.025	246.313	(9.025)



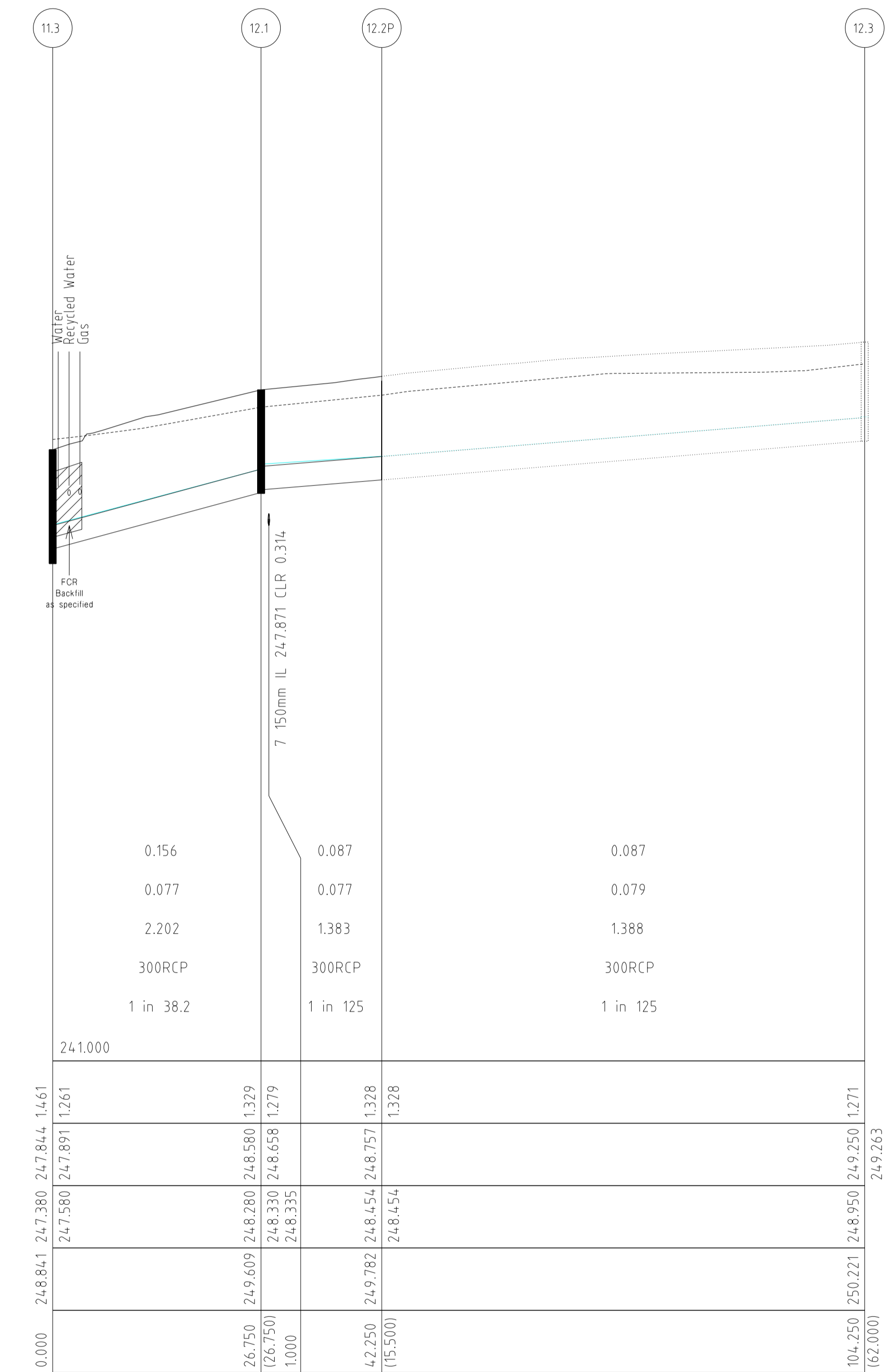
CAPACITY (m3/s)	0.206
FLOW (m3/s)	0.069
VELOCITY (m/s)	1.168
PIPE SIZE (mm)	450RCP
GRADE	1 in 192
Datum R.L.	239.000

DEPTH TO INVERT	246.876	1.802		
H.G.L. LEVELS	244.850	246.543	2.732	
INVERT LEVELS	245.780	246.876	1.802	
FINISHED SURFACE LEVELS	247.247	245.820	246.880	1.427
CHAINAGE (LENGTH)	0.000	7.666	246.977	



CAPACITY (m3/s)	0.668	0.635	0.263	0.202	0.158	0.158
FLOW (m3/s)	0.189	0.186	0.183	0.109	0.099	0.102
VELOCITY (m/s)	2.653	2.544	1.786	1.294	1.509	1.521
PIPE SIZE (mm)	525RCP	525RCP	450RCP	450RCP	375RCP	375RCP
GRADE	1 in 41.5	1 in 45.9	1 in 117	1 in 199	1 in 123	1 in 123
Datum R.L.	240.000	240.000	240.000	240.000	240.000	240.000

DEPTH TO INVERT	247.164	2.659	247.844	1.461	248.007	1.411	248.645	1.284
H.G.L. LEVELS	248.239	245.580	247.401	1.579	247.891	1.411	248.645	1.284
INVERT LEVELS	246.660	246.930	247.455	1.753	247.891	1.411	248.645	1.284
FINISHED SURFACE LEVELS	248.683	246.980	247.533	1.703	247.891	1.411	248.645	1.284
CHAINAGE (LENGTH)	0.000	11.212	11.212	19.712	36.162	54.062	56.062	137.162

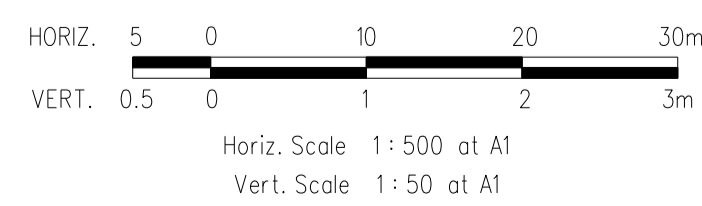


CAPACITY (m3/s)	0.156	0.087	0.087
FLOW (m3/s)	0.077	0.077	0.079
VELOCITY (m/s)	2.202	1.383	1.388
PIPE SIZE (mm)	300RCP	300RCP	300RCP
GRADE	1 in 38.2	1 in 125	1 in 125
Datum R.L.	241.000	241.000	241.000

DEPTH TO INVERT	247.844	1.461	249.250	1.271
H.G.L. LEVELS	247.380	247.891	248.280	1.329
INVERT LEVELS	247.580	248.280	248.580	1.329
FINISHED SURFACE LEVELS	248.841	247.844	248.558	1.328
CHAINAGE (LENGTH)	0.000	26.750	104.250	162.000

DRAINAGE LONGITUDINAL SECTIONS

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



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\ r22 .dgn			AUTHORISED:	A.S.C. DATE: MAY 2013

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

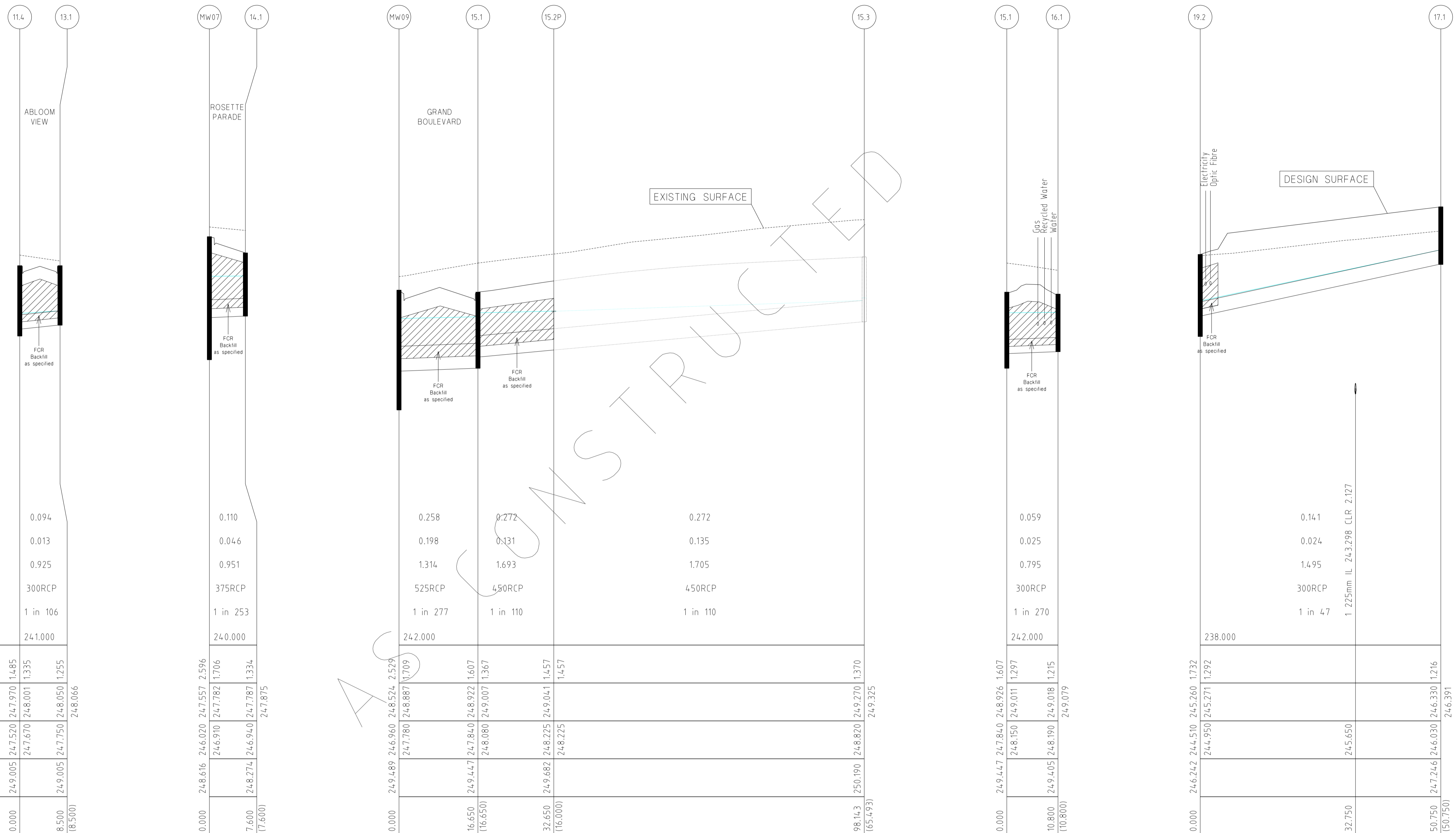
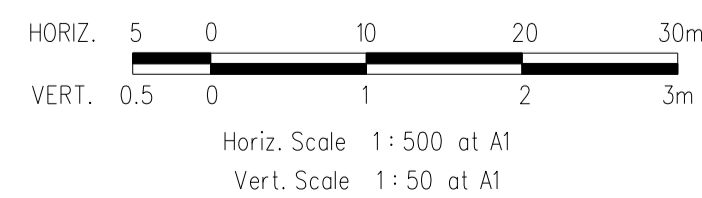
MELBOURNE
The Melbourne Suite 2
126 St. Kilda Road
Melbourne, 3004
Phone: (03) 9497 8000
Fax: (03) 9497 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R22
DRAINAGE LONGITUDINAL SECTIONS		REVISION N
		SHEET 22 OF 27

CAPACITY (m3/s)	0.094
FLOW (m3/s)	0.013
VELOCITY (m/s)	0.925
PIPE SIZE (mm)	300RCP
GRADE	1 in 106
Datum R.L.	241.000
DEPTH TO INVERT	1.485 1.335
H.G.L. LEVELS	247.970 248.001 248.050
INVERT LEVELS	247.520 247.670 247.750
FINISHED SURFACE LEVELS	249.005 249.005
CHAINAGE (LENGTH)	0.000 8.500 18.500

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

DRAINAGE LONGITUDINAL SECTIONS



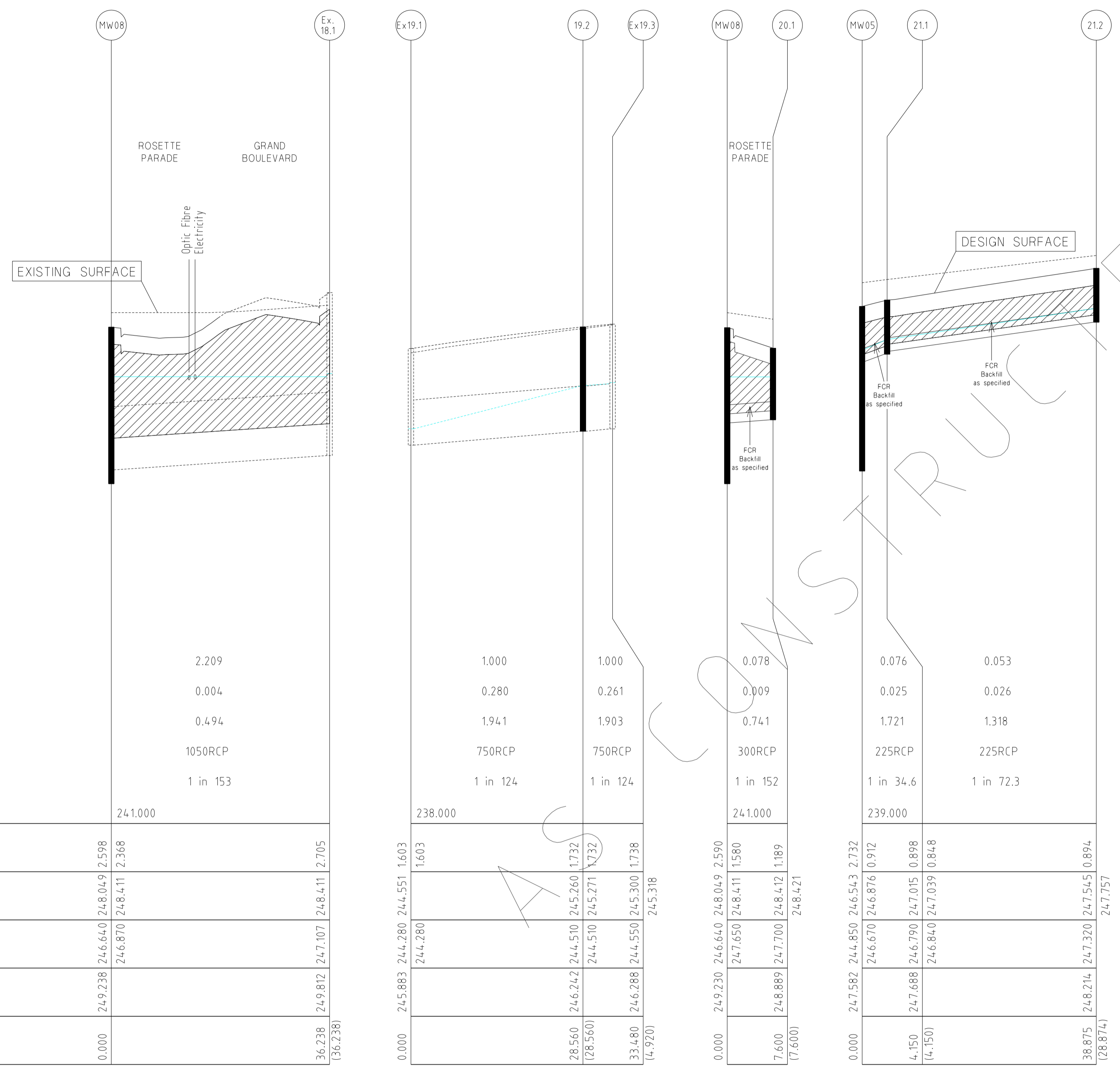
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	LEVEL DATA:	K:\36182\36182\LTPO
22/01/14	M	PARK PATHWAY AMENDMENTS	DATUM:	AHD
07/10/13	L	DRAINAGE LINE 4 & 12 AMENDMENTS	PROJECT No.:	36182/3B
18/09/13	K	COUNCIL REQUESTED AMENDMENTS	DRAWN:	C.M.B DATE: MAY 2013
17/09/13	J	COUNCIL REQUESTED AMENDMENTS	DESIGNED:	Z.W.L DATE: MAY 2013
FILENAME k:\36182\36182_3b\dgn\r23_dgn			AUTHORISED:	A.S.C DATE: MAY 2013



MORNINGTON
15 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

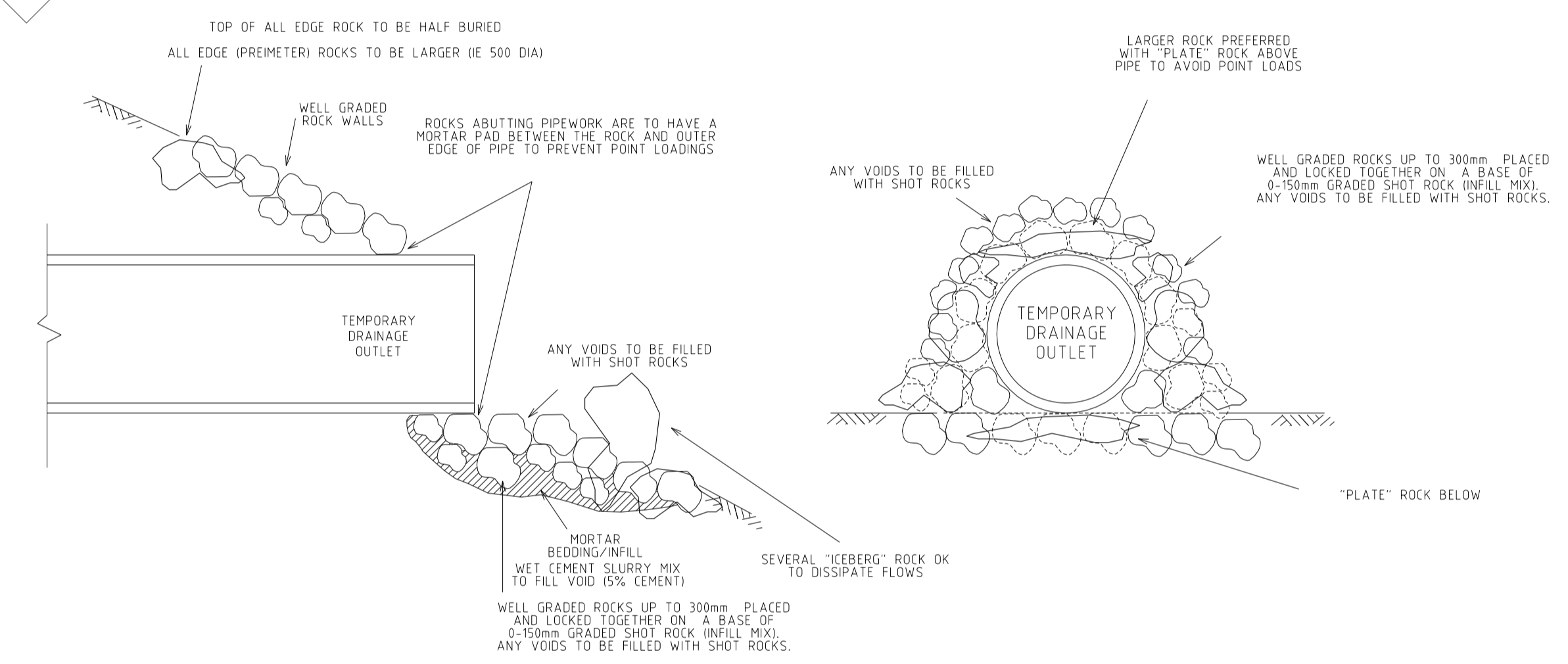
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R23
DRAINAGE LONGITUDINAL SECTIONS		REVISION N
		SHEET 23 OF 27



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		2.368	2.705
H.G.L. LEVELS	246.640	248.411	248.411
INVERT LEVELS	246.870	247.107	248.411
FINISHED SURFACE LEVELS	249.238	249.812	247.107
CHAINAGE (LENGTH)	0.000	36.238	156.238

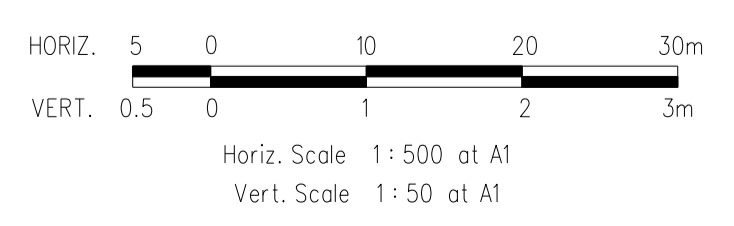
DEPTH TO INVERT		1.603	1.732	1.732	1.738	1.738
H.G.L. LEVELS	244.280	244.551	244.551	245.260	245.271	245.303
INVERT LEVELS	244.280	244.280	244.280	244.510	244.510	244.550
FINISHED SURFACE LEVELS	249.230	246.640	248.049	246.640	247.700	248.412
CHAINAGE (LENGTH)	0.000	7.600	17.600	28.560	33.480	44.920



TYPICAL STORMWATER DRAINAGE TEMPORARY OUTLET
 N.T.S.

DRAINAGE LONGITUDINAL SECTIONS

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



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N	AS CONSTRUCTED	LEVEL DATA:	K:\36182\36182\LT00
22/01/14	M	PARK PATHWAY AMENDMENTS	DATUM:	AHD
07/10/13	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\r24_dgn			AUTHORISED:	A.S.C DATE: MAY 2013

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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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(HAUNCHED); 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

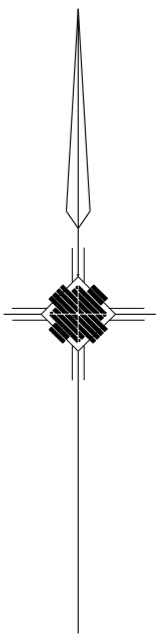
REVISIONS			SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LT00
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
07/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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



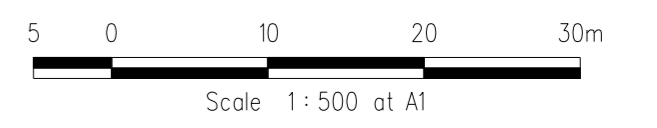
MORNINGTON
5 Main Street
P.O. Box 171 3911
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 93118 Mornington

MELBOURNE
The Melbourne Suite 2
326 St. Kilda Road
Melbourne, 3002
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 R 25
PIT SCHEDULE		REVISION N
		SHEET 25 OF 27



LINEMARKING PLAN



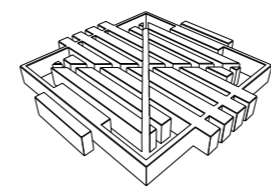
PLAN I.D.	PICTORIAL	CODE No.
-----------	-----------	----------

#1  STREET SIGN

#2  R1-2A



REVISIONS				SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014	
14/02/14	N	AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\1\TOPO
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\R26.dgn				AUTHORISED:	A.S.C. DATE: MAY 2013



WATSONS
404 41 427 001 411

MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 93188 Mornington

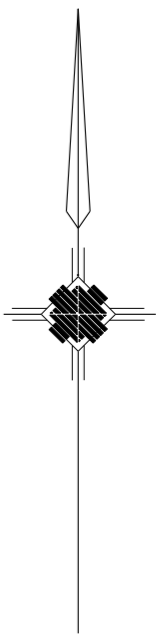
MELBOURNE
The Melbourne Suite 2
250 St. Kilda Road
Melbourne, 3004
Phone: (03) 9497 8000
Fax: (03) 9497 8099

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

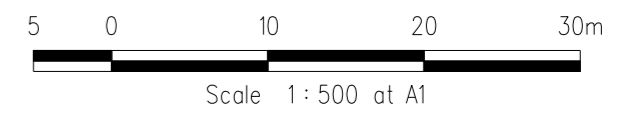
PLAN NUMBER
36182/3B
R26

LINEMARKING & SIGNAGE PLAN

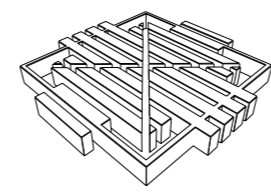
REVISION N
SHEET 26 OF 27



PARKING PLAN



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\1\TOPO
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\R26A.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



WATSONS
404 11 407 001 411

MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 9318 Mornington

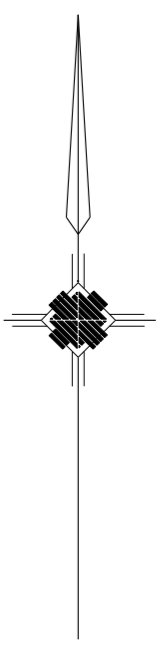
MELBOURNE
The Melbourne Suite 2
250 St. Kilda Road
Melbourne, 3004
Phone: (03) 9497 8000
Fax: (03) 9497 8099

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

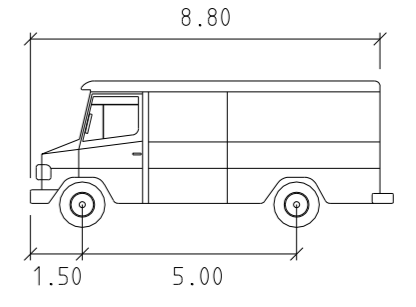
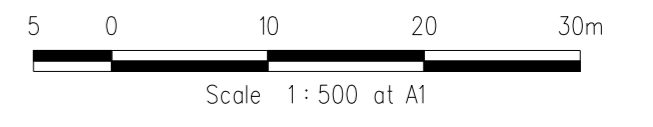
PLAN NUMBER
36182/3B
R26A

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



CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CLASS 3 CRUSHED 10.5m RADIUS FOR SERVICE VEHICLES
POST AND WIRE FENCE TO PREVENT ACCESS

RUSHED PAVEMENT FOR TRUCKS
FENCE ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

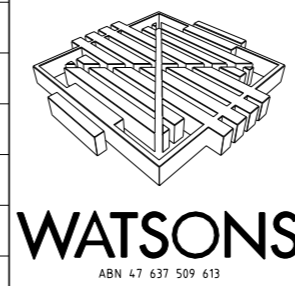
TEMPORARY TURNING CIRCLE TO BE GRADED TO THE SOUTH AT A MINIMUM OF 1 IN 200. THIS IS TO BE CONSTRUCTED TO MATCH INTO EXISTING SURFACE AT THE SOUTHERN END TO ENSURE THE ROAD GRADES OUT ALLOWING FREEFLOWING SURFACE RUNOFF.

ROCK BEACHING & TRANSITIONING ARC AS EROSION PROTECTION

FENCE TO BE INSTALLED AROUND TEMPORARY OUTFALL AND ONLINE SEDIMENT POND

ROCK BEACHING & TRANSITIONING ARC AS EROSION PROTECTION

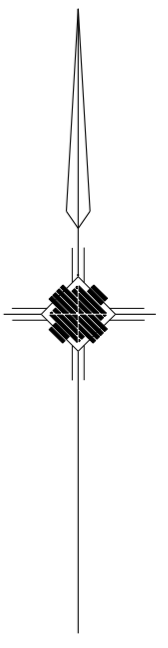
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K\36182\36182\1\TOPO
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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\R26B.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



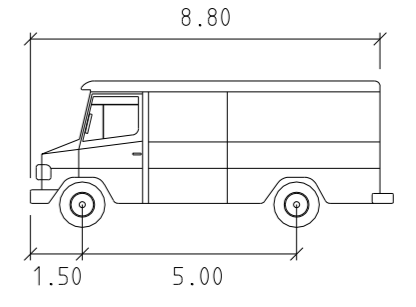
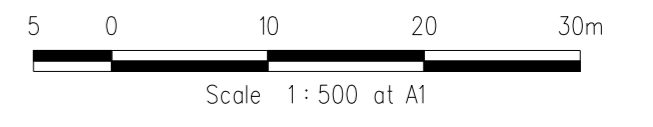
MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DX 93188 Mornington

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

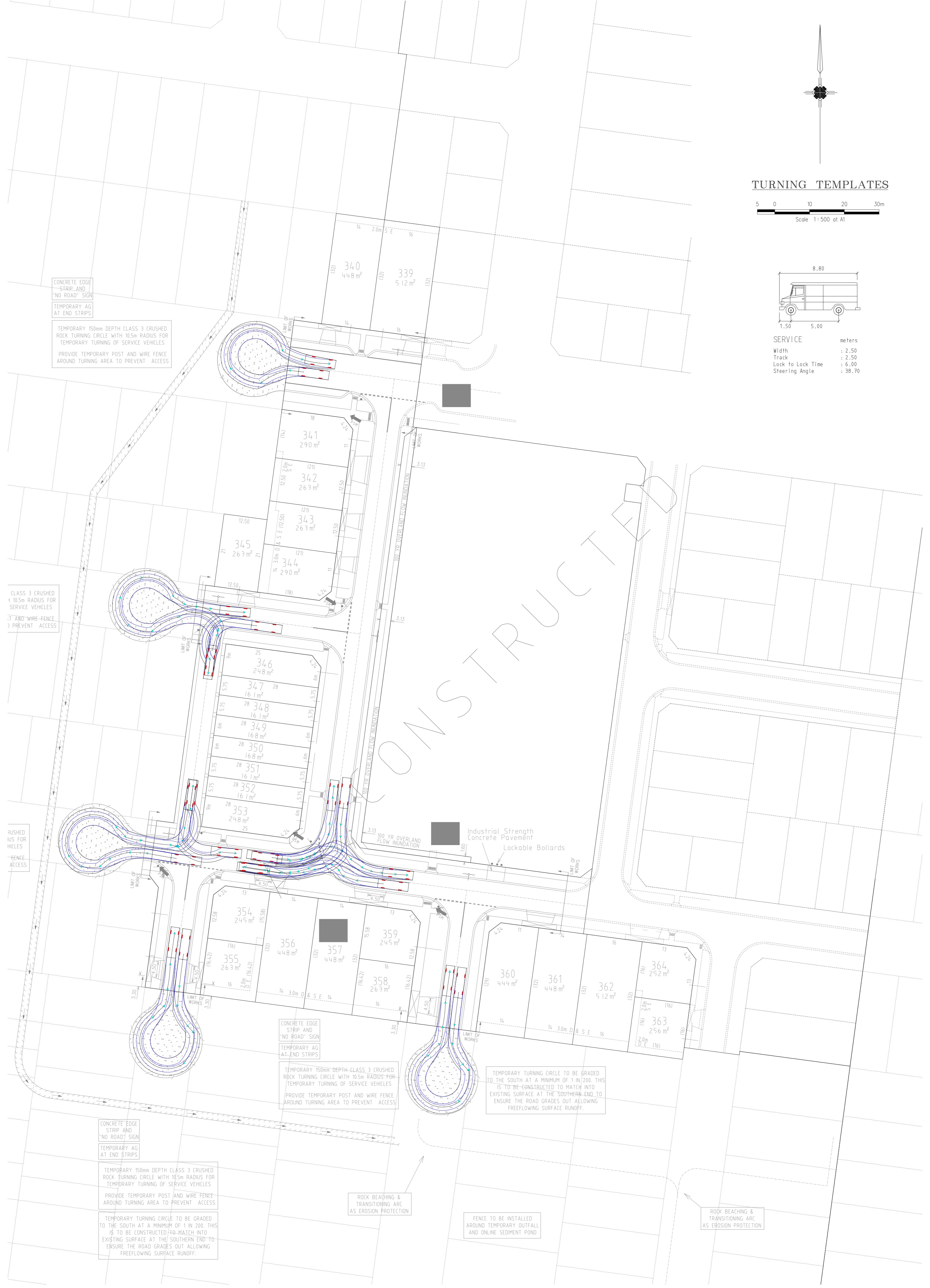
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3B R26B
TURNING TEMPLATES		REVISION N
		SHEET 26B OF 27



TURNING TEMPLATES



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



CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CLASS 3 CRUSHED 10.5m RADIUS FOR SERVICE VEHICLES
POST AND WIRE FENCE TO PREVENT ACCESS

RUSHED PAVEMENT FOR VEHICLES
FENCE ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

TEMPORARY TURNING CIRCLE TO BE GRADED TO THE SOUTH AT A MINIMUM OF 1 IN 200. THIS IS TO BE CONSTRUCTED TO MATCH INTO EXISTING SURFACE AT THE SOUTHERN END TO ENSURE THE ROAD GRADES OUT ALLOWING FREEFLOWING SURFACE RUNOFF.

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS

TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

TEMPORARY TURNING CIRCLE TO BE GRADED TO THE SOUTH AT A MINIMUM OF 1 IN 200. THIS IS TO BE CONSTRUCTED TO MATCH INTO EXISTING SURFACE AT THE SOUTHERN END TO ENSURE THE ROAD GRADES OUT ALLOWING FREEFLOWING SURFACE RUNOFF.

ROCK BEACHING & TRANSITIONING ARC AS EROSION PROTECTION

FENCE TO BE INSTALLED AROUND TEMPORARY OUTFALL AND ONLINE SEDIMENT POND

ROCK BEACHING & TRANSITIONING ARC AS EROSION PROTECTION

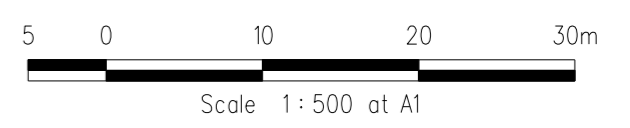
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K\36182\36182\1\TOPO
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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\R26C.dgn			AUTHORISED:	A.S.C. DATE: MAY 2013



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



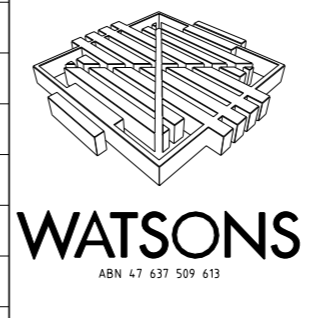
EARTHWORKS PLAN



LEGEND

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

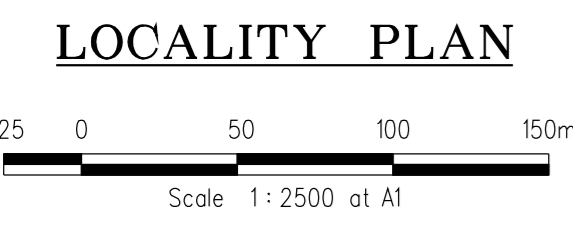
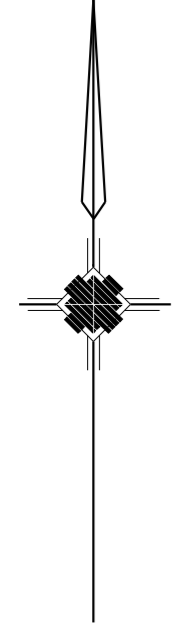
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	14/02/2014
14/02/14	N AS CONSTRUCTED	ASC	LEVEL DATA:	K:\36182\36182\LTPO
22/01/14	M PARK PATHWAY AMENDMENTS	ASC	DATUM:	AHD
8/10/13	L DRAINAGE LINE 4 & 12 AMENDMENTS	ASC	PROJECT No.:	36182/3B
18/09/13	K COUNCIL REQUESTED AMENDMENTS	ASC	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



MORNINGTON
5 Main Street
P.O. Box 171 3931
Phone: (03) 5975 4444
Fax: (03) 5975 3916
DK 93188 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 R27
EARTHWORKS PLAN		REVISION N
		SHEET 27 OF 27



- NOTES:
- All levels are in metres to Australian Height Datum (AHD).
 - Coordinates for setting out are to Map Grid of Australia (MGA55-94) unless otherwise noted.
 - No properties sewered.
 - Length of sewers to be constructed: 150mm dia PVC - 387m, 225mm dia PVC - 300m.
 - Works must be constructed according to WSA 02-2002 MRWA Edition specifications and standard drawings, technical and construction requirements. Contractor shall ensure they are conversant with all the current revisions, amendments and updates that Yarra Valley Water have made to their construction standards.

ACCESS CHAMBER SETOUT

ACCESS CHAMBER	EASTING	NORTHING	COVER LEVEL	DIAMETER	COVER CLASS	MANHOLE TYPE
Fut.WAT1-14	3758.285	9834.906	250.112	1050	B	TRUNCATED TYPE A
WAT1-13	3820.231	9826.601	249.594	1050	B	TRUNCATED TYPE A
WAT1-12	3817.174	9803.805	248.938	1050	B	CONCAL
WAT1-11	3805.402	9791.258	248.936	1050	D	CONCAL
WAT1-10	3801.815	9764.497	248.569	1050	D	CONCAL
WAT1-9	3798.094	9736.746	247.952	1050	D	CONCAL
WAT1-BMS	3802.569	9716.976	248.013	-	B	-
WAT1-7	3799.141	9691.405	247.824	1050	B	CONCAL
WAT1-6	3860.591	9683.166	247.034	1050	B	CONCAL
WAT1-5MS	3878.405	9680.575	246.99	-	B	-
WAT1-4	3910.121	9676.323	247.032	1050	B	CONCAL
WAT1-3MS	3898.494	9589.599	246.252	-	B	-
WAT1-2	3886.924	9503.307	245.923	1050	B	CONCAL
ExWAT1-4	3962.25	9493.208	244.83	-	-	-
WAT2-2IS	3925.99	9689.33	247.044	-	B	-
WAT2-1	3923.997	9674.463	246.859	1050	B	TRUNCATED TYPE A
WAT3-IMS	3866.81	9729.551	247.112	-	B	-
Fut.WAT4-2	3713.877	9702.635	248.747	1050	B	TRUNCATED TYPE A
WAT4-1	3785.238	9693.067	247.822	1200	B	CONCAL
WAT5-IS	3787.398	9709.173	247.941	-	B	-
Fut.WAT6-1	3717.678	9775.778	249.438	1050	B	TRUNCATED TYPE A
WAT7-IS	3822.623	9844.441	250.031	-	B	-
Fut.WAT8-1	3797.733	9918.405	251.244	1050	B	CONCAL
ExWAT8-1P	3847.944	9911.673	250.643	-	-	-
WAT22-2IS	3920.252	9789.985	247.981	-	B	-
ExWAT22-IS	3946.517	9786.463	247.688	-	B	-

PIPELINE CONSTRUCTION:

6 Refer to Standard Drawings as per WSA 02-2002 MRWA Edition.

7. Pipeline Material:

Diameter	Pipe Type	Pipe Class	Australian Standard
300mm	PVC	SN8	AS/NZS 1260-2002
225mm	PVC	SN8	AS/NZS 1260-2002
150mm	PVC	SN8	AS/NZS 1260-2002
100mm	PVC	SN10	AS/NZS 1260-2002

- Pipe jointing shall be made with solvent cement for PVC pipes (175mm dia, 300mm dia, 225mm dia, 150mm dia, 100mm dia) to comply with AS/NZS3879.
 - Use SBR rubber jointing rings to AS1646 for first pipe joint on each side of maintenance hole. All rubber pipe jointing rings must contain an approved root inhibitor.
- PROPERTY BRANCH SEWERS:
- All branches to be 100mm dia PVC pipes.
 - Boundary traps for properties are not required UNO, or as specified.
 - Property branches connecting into new sewers are to be constructed with standard PVC pipes and fittings.
 - Property branch connection ties shown on the detail plan are from the appropriate title page and the invert of the branch is shown opposite the branch position. All property sewer connections are to be marked by a coloured tape brought to the surface.
 - Property branches must extend a minimum of 300mm and a maximum of 600mm beyond the property line or any services.

- MAINTENANCE HOLES AND SHAFTS:
- Refer to YVW Technical Addendums & relevant WITS Drawings (SCH032&SCH033 RevB) and as per WSA 02-2002-23 MRWA Edition.
 - Cranked design galvanised steel step irons to be used in maintenance holes.
 - Covers in roadways to be Class D, all other covers shall be circular Class B Covers and frames to be greased upon installation.
 - Maintenance hole and shaft covers shall be level with and shall conform to slope and crossfall of the finished surface. The finished surface levels shown are approximate only and shall not be used for the fixing of any maintenance hole or shaft cover levels. The main Contractor shall provide levels to maintenance hole and shafts which comply with constructed levels to abutting infrastructure.
 - WSA 02-2002 MRWA Edition WN25 grade concrete - GP Type cement must be used in all construction.
 - All Maintenance Hole Types are shown on Manhole schedule.

- EARTHWORKS:
- In areas subject to earthworks, the construction of sewers must not commence until earthworks have been completed or the superintendent gives notice to commence. Where such direction is given to construct "Type 13" support and "Crushed Rock" backfill shall be placed around all sewers where clear cover does not exceed 600mm. Under road pavement where clearance between the bottom of the boxing and top of the sewer is less than 900mm "Type 13" support and "Crushed Rock" backfill shall be placed around sewers.

- OUTLET:
- These works depend on existing sewer levels which are to be confirmed by Contractor prior to commencement of any works. Any discrepancies are to be reported to the Superintendent immediately.

- WORK ON LIVE SEWERS:
- Contractor is not permitted to break-in to an existing live pipeline, enter a live maintenance hole or remove the cover to a live maintenance hole.
 - All works on live sewers to be carried out by a Yarra Valley Water authorised contractor. The contractor is to notify the consultant at least two (2) working days before proceeding.
 - Contractor to supply plugs required by Yarra Valley Water authorised contractor for plugging.

- TESTING:
- Testing of sewers in accordance with WSA 02-2002 MRWA Edition. All testing must be undertaken under the direction of the consultant. Contractor to give a minimum of two (2) clear days notice to the consultant prior to the testing being undertaken.

- BORING:
- Any boring to be undertaken using laser guided machine in accordance with WSA 02-2002 MRWA Edition specifications and standard drawings.

- ATTENTION TO CONTRACTOR:
- In accordance with clause 15 of AS4000-1997, the contractor must ensure the safety of the contractor's employees and all other people who are on or adjacent to the site. The contractor must comply with the Victorian Occupational Health and Safety Act.
 - The contractor must ensure that all people employed on the site wear approved safety apparel. This includes safety helmets, vests, safety boots, ear and eye protection where appropriate.
 - Changes shown on detail plan are discontinuous. Chainages shown on longitudinal sections are continuous.
 - Principal contractor is responsible for setting out lines and levels for all sewers including works on live sewers.
 - Principal contractor to determine the finished surface level and slope for all maintenance holes and shafts.
 - Backfilling and compaction of trenches to be in accordance with Yarra Valley Water's requirements specification for developer works and backfill specification 02-163.2 Earth backfill to be used unless noted otherwise.
 - Contractor to engage an independent soil testing authority with NATA accreditation to undertake testing of fill compaction and density testing in accordance with AS1289.
 - Contractor must obtain written permission from Yarra Valley Water for accessing water from fire hydrants for construction purposes.
 - Cross-contamination may occur when drawing water from a stand-pipe hydrant. Yarra Valley Water requires the contractor who draws water from hydrant to provide a method statement on how they propose to address the issue of cross-contamination.
 - Due to flat grades no allowance has been made for adverse tolerance. As constructed survey will be required at regular intervals during construction to ensure design levels and grades are achieved.
 - These works are to be carried out in accordance with geotechnical investigation report prepared by Site Geotechnical (provided).

- NOTE:
- xy setout to pit centre
 - setout level to pit cover level

- TRENCHING AND EMBEDMENT DETAILS
- Refer to WSA drawing SEW 1201-Y for trench/width details and MRWA Backfill Specification 04-03 for backfill design specification details.
 - Refer to WSA Sections 16.1 & 21.1 for trench floor preparation requirements and trench fill compaction requirements.
 - Refer to WSA Sections 20 and 30.5 for particle size requirements and grading limits for embedment material.
 - Refer to WSA drawings SEW 1202 - SEW 1205 for embedment details. All embedment to be Type 3 UNO.
 - Embedment product to be South East Water 7mm bedding Product Specification WSA PS-359.
 - Backfill under loop/pipe to be in accordance with MRWA Backfill Specification 04-03. Any other backfill material (sand) to be approved by road authority.

REF.	ZONE	REVISION	DATE	APP'D.
F		WAT5-IS AMENDED.	24/08/13	Z.W.L.
E		WAT1-3 & WAT1-1 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.

SYMBOLS AND GENERAL NOTES

— EX. SEW 225mm DIAM & UNDER	● ACCESS CHAMBER CIRCULAR	Sq/J	SQUARE JUNCTION
— EX. SEW 300mm DIAM & OVER	● ACCESS CHAMBER GAS CHECK	Ob	OBLIQUE JUNCTION
— PROP. SEW 225mm DIAM & UNDER	● ACCESS CHAMBER FLAT TOP	— W	WATER MAINS
— PROP. SEW 300mm DIAM & OVER	D DROP IN ACCESS CHAMBER	— G	GAS MAINS
■ IS/TMS/MS	L LADDER IN ACCESS CHAMBER	— E	ELECT. CABLES
— E.P. END OF PIPE	Lg LANDING IN ACCESS CHAMBER	— T	TPHONE 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 9318 Mornington

MELBOURNE
 Level 2, 470 St. Kilda Road
 P.O. Box 1223
 Melbourne, 3006
 Phone (03) 9820 8144
 Fax (03) 9820 3574

YARRA VALLEY WATER

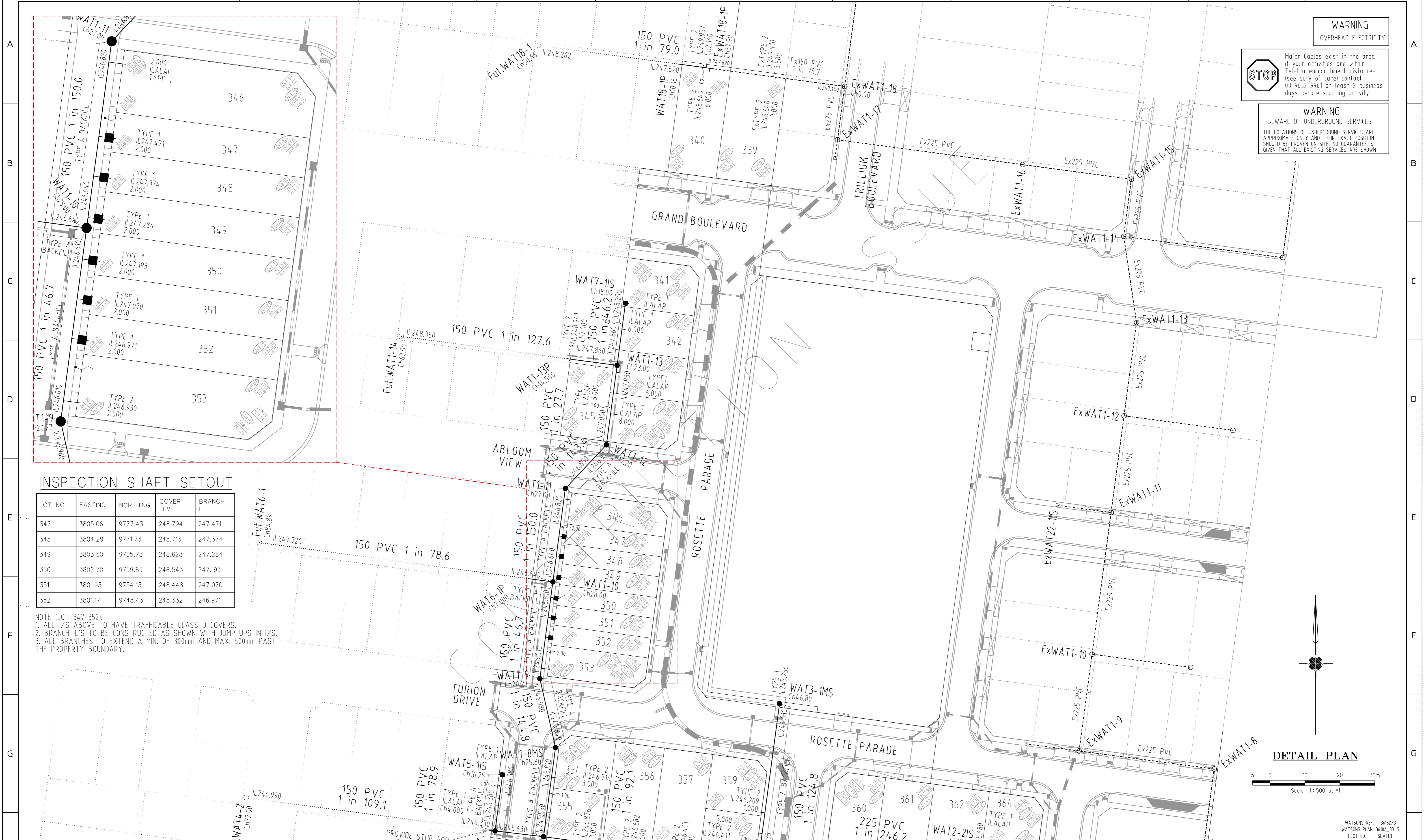
HUME CITY COUNCIL
 SEWER RETIC. EXTN. No. 09/525
 TRILLIUM MICKLEHAM STAGE 3B
 LOCALITY PLAN

SCALE AS SHOWN

SHEET 1 OF 5

DRAWING No. 09/525/S01

WATSONS REF. 36182/3
 WATSONS PLAN 36182_3B_S
 PLOTTED: 04/08/13





WARNING
OVERHEAD ELECTRICITY

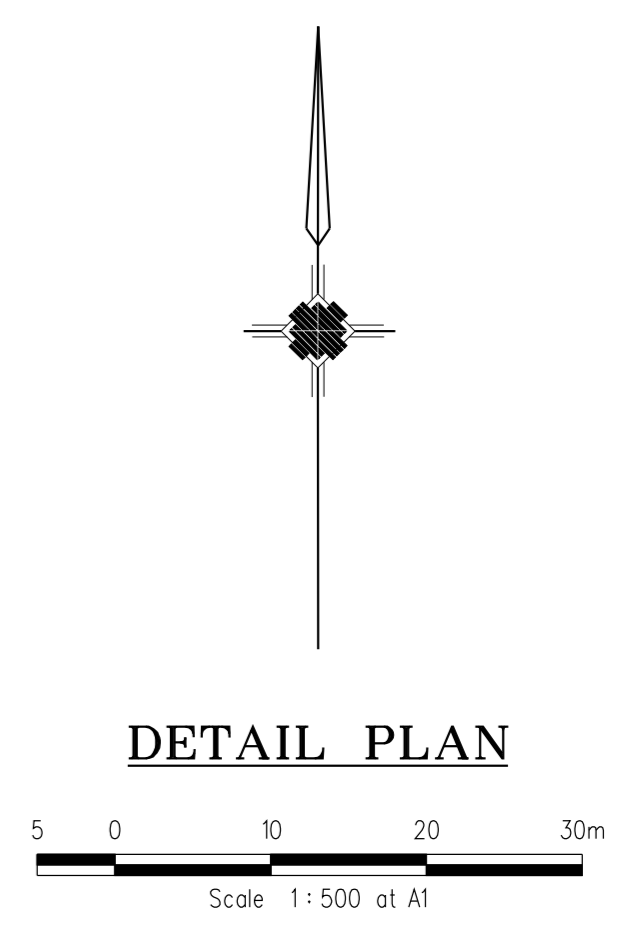
Major Cables exist in the area, if your activities are within Telstra encroachment distances (see duty of care) contact 03 9632 9961 at least 2 business days before starting activity.

STOP

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.

CONSTRUCTED



DETAIL PLAN

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

REF.	ZONE	REVISION	DATE	APPD.
F		WATS-1S AMENDED.	24/08/13	Z.W.L.
E		WAT1-3 & WAT1-1 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.

SYMBOLS AND GENERAL NOTES

—	EX. SEW. 225mm DIAM & UNDER	●	ACCESS CHAMBER CIRCULAR	SqJ	SQUARE JUNCTION
—	EX. SEW. 300mm DIAM & OVER	●	ACCESS CHAMBER GAS CHECK	Ob	OBLIQUE JUNCTION
—	PROP. SEW. 225mm DIAM & UNDER	F	ACCESS CHAMBER FLAT TOP	—W—	WATER MAINS
—	PROP. SEW. 300mm DIAM & OVER	D	DROP IN ACCESS CHAMBER	—G—	GAS MAINS
■	IS/TMS/MS	L	LADDER IN ACCESS CHAMBER	—E—	ELECT. CABLES
—	E.P.	Lg	LANDING IN ACCESS CHAMBER	—T—	TPHONE 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

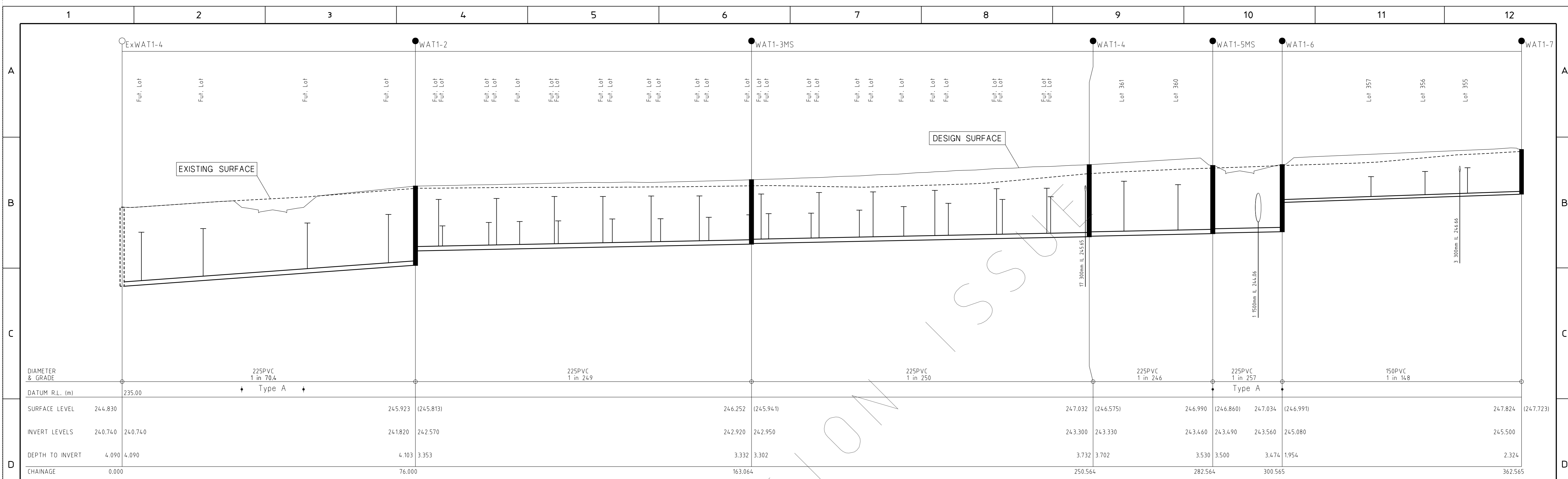
WATSONS
CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS
TOWN PLANNERS - URBAN DESIGNERS

MORNINGTON
5 Main Street
P.O. Box 131 3931
Phone (03) 5975 4444
Fax (03) 5975 3916
DX 9318 Mornington

MELBOURNE
Level 2, 470 St. Kilda Road
P.O. Box 1223
Melbourne, 3004
Phone (03) 9820 8544
Fax (03) 9820 3574

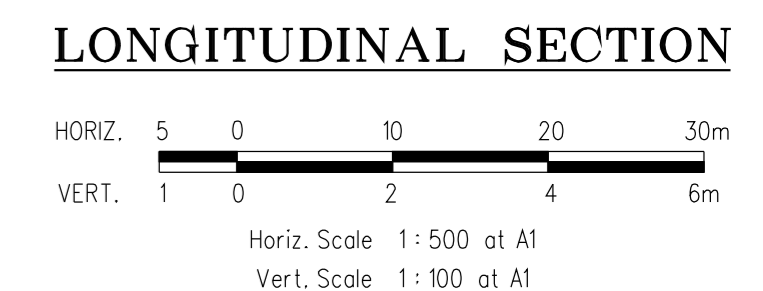
YARRA VALLEY WATER
HUME CITY COUNCIL
SEWER RETIC. EXTN. No. 09/525
TRILLIUM MICKLEHAM STAGE 3B
DETAIL PLAN

SCALE AS SHOWN	F
SHEET 3 OF 5	F
DRAWING No.	F
09/525/S03	F



DIAMETER & GRADE	225PVC 1 in 70.4		225PVC 1 in 24.9		225PVC 1 in 25.0		225PVC 1 in 24.6		225PVC 1 in 25.7		150PVC 1 in 14.8	
DATUM R.L. (m)	235.00		235.00		235.00		235.00		235.00		235.00	
SURFACE LEVEL	244.830	245.923 (245.813)	246.252 (245.941)	247.032 (246.575)	246.990 (246.860)	247.034 (246.991)	247.824 (247.723)					
INVERT LEVELS	240.740	241.820	242.570	242.920	242.950	243.300	243.330	243.460	243.490	243.560	245.080	245.500
DEPTH TO INVERT	4.090	4.103	3.353	3.332	3.302	3.732	3.702	3.530	3.500	3.474	1.954	2.324
CHAINAGE	0.000	76.000	163.064	250.564	282.564	300.565	362.565					

DIAMETER & GRADE	150PVC 1 in 92.1		150PVC 1 in 14.5		150PVC 1 in 46.7		150PVC 1 in 15.0		150PVC 1 in 14.3		150PVC 1 in 27.7		150PVC 1 in 77.8		150PVC 1 in 78.9		150PVC 1 in 12.5								
DATUM R.L. (m)	238.00		238.00		238.00		238.00		238.00		238.00		236.00		236.00		236.00								
SURFACE LEVEL	247.824 (247.723)	248.013 (247.922)	247.952 (248.248)	248.569 (248.620)	248.936 (248.999)	248.938 (249.018)	249.594 (249.379)	246.758 (246.528)	250.112 (249.844)	247.032 (246.575)	246.859 (246.418)	247.044 (246.593)	247.034 (246.991)	247.112 (247.589)											
INVERT LEVELS	245.500	245.530	245.810	245.840	245.980	246.010	246.610	246.640	246.820	246.850	246.970	247.000	247.830	247.860	247.971	248.350	243.300	245.280	245.460	245.490	245.680	243.560	243.635	244.010	
DEPTH TO INVERT	2.324	2.294	2.203	2.173	1.972	1.942	1.959	1.929	2.116	2.086	1.968	1.938	1.764	1.734	1.213	1.762	3.732	1.752	1.399	1.369	1.364	3.474	3.399	3.102	
CHAINAGE	362.565	388.365	408.636	436.636	463.636	480.840	503.840	518.340	566.340	0.000	14.000	29.000	0.000	46.800											



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.

REF.	ZONE	REVISION	DATE	APP'D.
F		WATS-15 AMENDED.	24/08/13	Z.W.L.
E		WAT1-3 & WAT1-1 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.

SYMBOLS AND GENERAL NOTES

—	EX. SEW. 225mm DIAM & UNDER	●	ACCESS CHAMBER CIRCULAR	SqJ	SQUARE JUNCTION
—	EX. SEW. 300mm DIAM & OVER	●	ACCESS CHAMBER GAS CHECK	Ob	OBLIQUE JUNCTION
—	PROP. SEW. 225mm DIAM & UNDER	●	ACCESS CHAMBER FLAT TOP	—W—	WATER MAINS
—	PROP. SEW. 300mm DIAM & OVER	●	DROP IN ACCESS CHAMBER	—G—	GAS MAINS
—	IS/TMS/MS	L	LADDER IN ACCESS CHAMBER	—E—	ELECT. CABLES
—	E.P.	Lg	LANDING IN ACCESS CHAMBER	—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

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

MORNINGTON
5 Main Street
P.O. Box 111 3931
Phone (03) 5975 4444
Fax (03) 5975 3916
DX 9318 Mornington

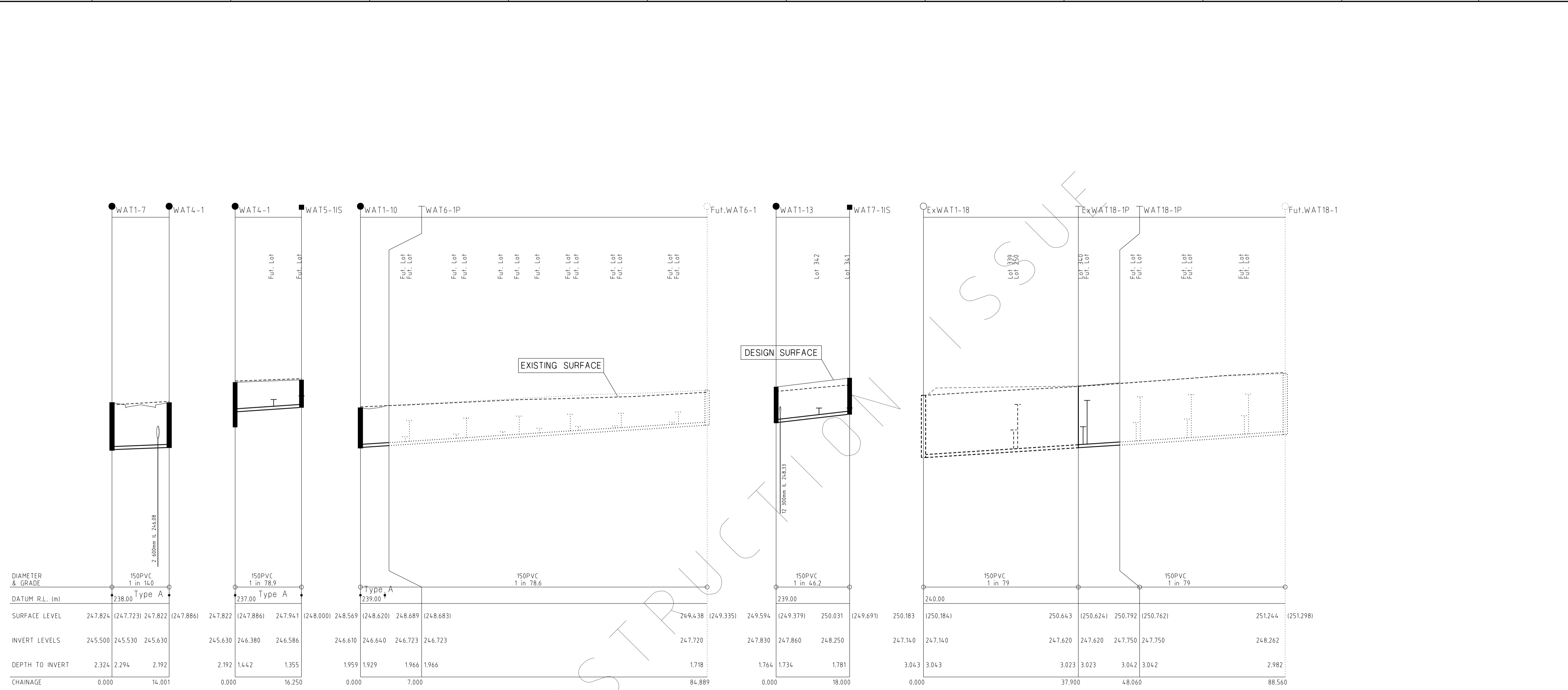
MELBOURNE
Level 2, 470 St. Kilda Road
P.O. Box 1223
Melbourne, 3004
Phone (03) 9820 8144
Fax (03) 9820 3574

YARRA VALLEY WATER

HUME CITY COUNCIL
SEWER RETIC. EXTN. No. 09/525
TRILLIUM MICKLEHAM STAGE 3B
LONGITUDINAL SECTIONS

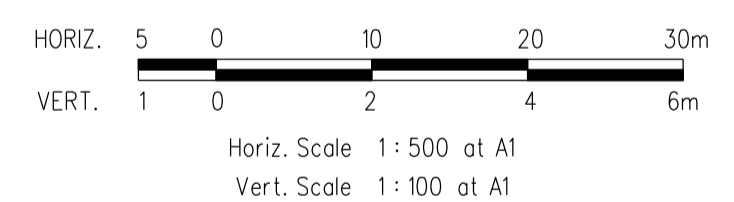
SCALE AS SHOWN	
SHEET 4 OF 5	F
DRAWING No.	09/525/S04

WATSONS REF. 36182/3
WATSONS PLAN 36182_3B_5
PLOTTED: 5/04/2014



DIAMETER & GRADE	150PVC 1 in 14.0		150PVC 1 in 78.9			150PVC 1 in 78.6										150PVC 1 in 46.2		150PVC 1 in 79																				
DATUM R.L. (m)	238.00		237.00			239.00										239.00		240.00																				
SURFACE LEVEL	247.824	(247.723)	247.822	(247.886)	247.822	(247.886)	247.941	(248.000)	248.569	(248.620)	248.689	(248.683)	249.438	(249.335)	249.594	(249.379)	250.031	(249.691)	250.183	(250.184)	250.643	(250.624)	250.792	(250.762)	251.244	(251.298)												
INVERT LEVELS	245.500	245.530	245.630	245.630	245.630	246.380	246.586	246.610	246.640	246.723	246.723	247.720	247.720	247.830	247.860	248.250	247.140	247.140	247.620	247.620	247.750	247.750	248.262	248.262	248.262	248.262												
DEPTH TO INVERT	2.324	2.294	2.192		2.192	1.442	1.355	1.959	1.929	1.966	1.966	1.718	1.764	1.734	1.781		3.043	3.043	3.023	3.023	3.042	3.042	2.982	2.982	2.982	2.982												
CHAINAGE	0.000		14.001			0.000			7.000				84.889				0.000		18.000				0.000				37.900				48.060				88.560			

LONGITUDINAL SECTION



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

REF.	ZONE	REVISION	DATE	APP'D.
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.

SYMBOLS AND GENERAL NOTES

— EX. SEW. 225mm DIAM & UNDER	● ACCESS CHAMBER CIRCULAR	Sq/J	SQUARE JUNCTION
— EX. SEW. 300mm DIAM & OVER	● ACCESS CHAMBER GAS CHECK	Ob	OBLIQUE JUNCTION
— PROP. SEW. 225mm DIAM & UNDER	F ACCESS CHAMBER FLAT TOP	— W	WATER MAINS
— PROP. SEW. 300mm DIAM & OVER	D DROP IN ACCESS CHAMBER	— G	GAS MAINS
— IS/TMS/MS	L LADDER IN ACCESS CHAMBER	— E	ELECT. CABLES
— E.P.	Lg. LANDING IN ACCESS CHAMBER	— T	TPHONE CABLES

DESIGNED	Z.W.L.	PLAN REFERENCE	36182/3B
CHECKED	A.S.C.	MELWAY REFERENCE	36612
AUTHORISED	A.S.C.	YARRA VALLEY WATER OFFER FILE No.	09/525

WATSONS
CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS
TOWN PLANNERS - URBAN DESIGNERS
MORNINGTON
5 Main Street,
P.O. Box 171 3931
Phone: (03) 5975 4644
Fax: (03) 5975 3916
DX 9318 Mornington

MELBOURNE
Level 2, 470 St. Kilda Road,
P.O. Box 7223
Melbourne, 3004
Phone: (03) 9820 8144
Fax: (03) 9820 3574

YARRA VALLEY WATER
HUME CITY COUNCIL
SEWER RETIC. EXTN. No. 09/525
TRILLIUM MICKLEHAM STAGE 3B
LONGITUDINAL SECTIONS

SCALE AS SHOWN	F
SHEET 5 OF 5	L
DRAWING No.	09/525/S05
	B