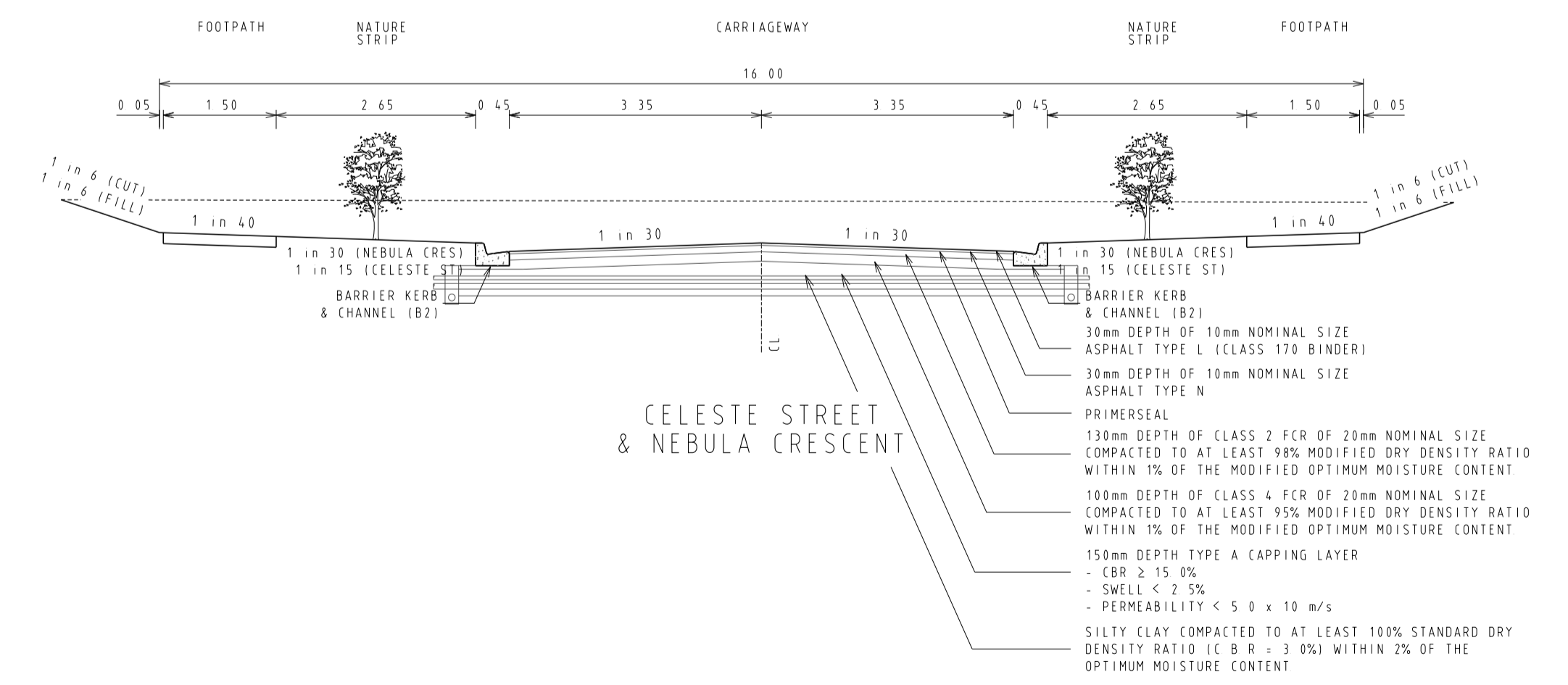
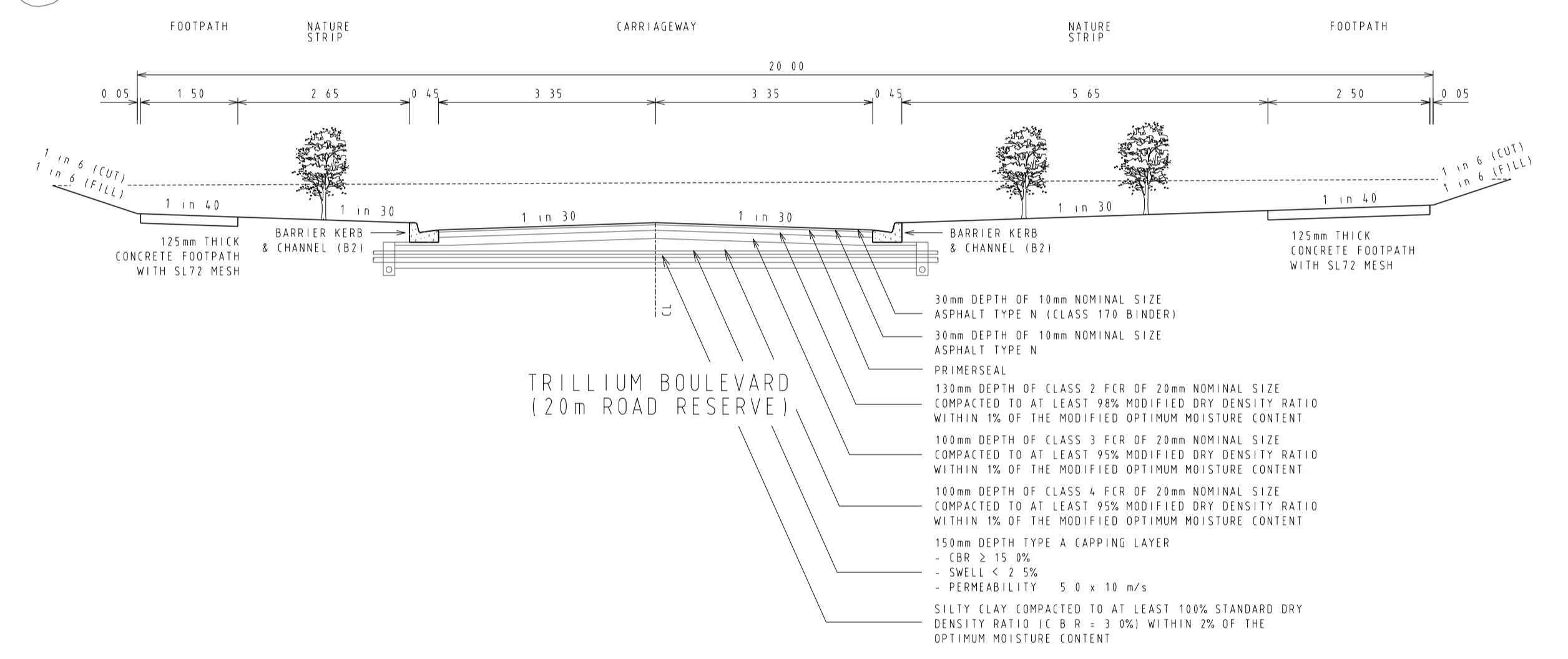
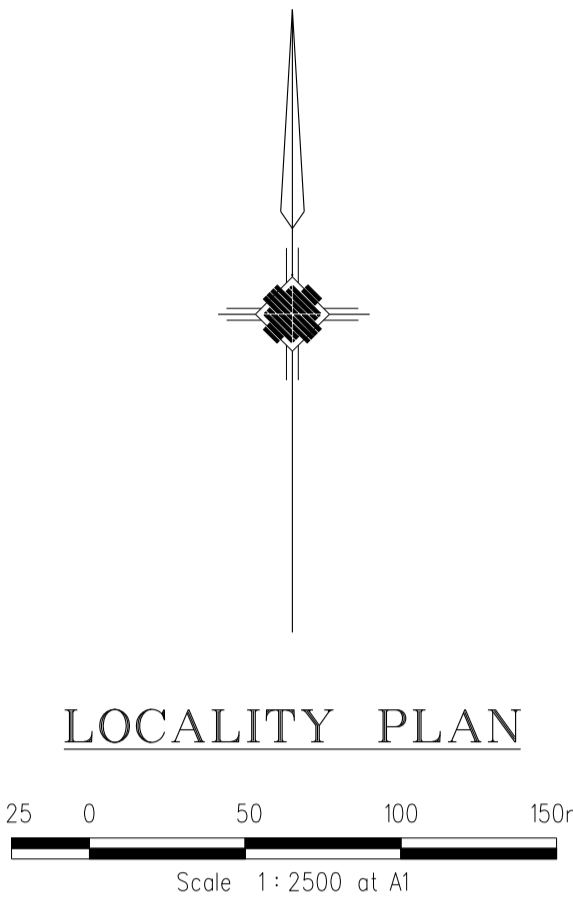
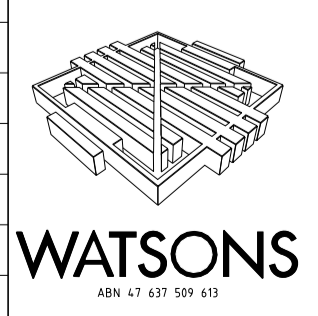


SHEET INDEX

1	LOCALITY PLAN, SHEET INDEX & TYPICAL CROSS SECTIONS
2	GENERAL NOTES, SITE SPECIFIC NOTES & HUME CITY COUNCIL NOTES
3-3A	DETAIL PLAN, SERVICE OFFSET TABLE & CURVE SETOUT TABLE
4	INTERSECTION DETAIL & LIP OF KERB PROFILES
5	NEBULA CRESCENT LONGITUDINAL & CROSS SECTIONS
6	TRILLIUM BOULEVARD LONGITUDINAL & CROSS SECTIONS
7	TRILLIUM BOULEVARD CROSS SECTIONS
8	CELESTE STREET LONGITUDINAL & CROSS SECTIONS
9-11	CELESTE STREET CROSS SECTIONS
12-15	DRAINAGE LONGITUDINAL SECTIONS
16	DRAINAGE PIT SCHEDULE
17	LINEMARKING PLAN



REVISIONS			SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	7/05/2013
7/05/13	G AS CONSTRUCTED	ZWL	LEVEL DATA:	K:\36182\36182\1\TOPO
10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	DATUM:	AHD
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30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L. DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L. DATE: APR 2012
FILENAME k:\36182\36182_2B\DGN\R01.dgn			AUTHORISED:	A.S.C. DATE: APR 2012



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R01
LOCALITY PLAN, SHEET INDEX & TYPICAL CROSS SECTIONS		REVISION G
		SHEET 1 OF 17

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

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

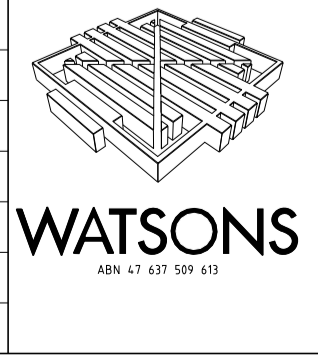
HUME CITY COUNCIL NOTES

- 1 CONSTRUCTION PLANS MUST BE ACCOMPANIED BY THE APPROVED SPECIFICATION NO WORK IS TO COMMENCE WITHOUT EVIDENCE OF POSSESSION OF EACH
- 2 ALL WORKS CARRIED OUT TO STANDARD OF DRAWINGS AND SPECIFICATION AS APPROVED BY HUME CITY COUNCIL AND TO THE SATISFACTION OF THE ENGINEER AND MUNICIPAL ENGINEER IN CASE OF DISPUTE THE SPECIFICATION MUST TAKE PRECEDENCE
- 3 IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL EXISTING SERVICES AND TO CONTACT THE LOCAL SERVICE AUTHORITIES AS REQUIRED
- 4 NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER
- 5 ALL CUT AREAS OUTSIDE ROAD RESERVES TO BE SURFACED WITH 100MM MIN COMPACTED LAYER OF TOPSOIL
- 6 ALL DISTURBED ALLOTMENTS AND RESERVES TO BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE
- 7 ALL HOUSE DRAINS SHOULD BE GENERALLY FLAT AT A GRADE OF 1:100 AND IN ACCORDANCE WITH HUME CITY COUNCIL STANDARDS
- 8 ALL TRENCHING OF DEPTH 1.5M OR GREATER MUST COMPLY WITH THE MINES AND TRENCHES REGULATIONS 1982
- 9 CONCRETE STRENGTH TO HAVE 28 DAY STRENGTH OF 25 MPA (UNO)
- 10 THE CONTRACTOR IS TO SUPPLY AND ERECT THE RELEVANT STREET SIGNAGE
- 11 KERB TYPES HAVE BEEN SPECIFIED TRANSITIONS BETWEEN DIFFERENT TYPES TO BE OVER 3.0M IF IT CANNOT BE ACHIEVED AT A PRAM CROSSING OR DRIVEWAY CROSSOVER (UNO)
- 12 ROAD OPENING PERMIT TO BE OBTAINED FOR CROSSING EXISTING PAVEMENTS AS REQUIRED
- 13 ALL FOOTPATHS TO BE 1.5m WIDE & SHARED PATHS TO BE 2.5m WIDE (UNO)
- 14 ALL FOOTPATHS & SHARED PATHS TO BE 125mm DEPTH CONCRETE
- 15 THE CONTRACTOR SHALL, TO THE SATISFACTION OF THE ENGINEER AND THE MUNICIPAL ENGINEER, PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNAGE, LIGHTING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF THE ROAD TRAFFIC REGULATIONS ACT
- 16 IF ANY EXISTING SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS A GEOTECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED
- 17 AN ENVIRONMENTAL MANAGEMENT PLAN (EMP), TRAFFIC MANAGEMENT PLAN (TMP) AND SITE MANAGEMENT PLAN (SMP) MUST BE PREPARED BY THE CONTRACTORS AND SUBMITTED TO COUNCIL FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY ON-SITE WORKS AND ALL WORKS MUST BE CARRIED OUT IN STRICT ACCORDANCE WITH THESE PLANS
- 18 REMOVAL OR RETENTION OF EXISTING TREES OR VEGETATION MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPING PLANS (OTHERWISE APPROVAL WILL BE REQUIRED FROM THE LANDSCAPE APPROVALS OFFICER)
- 19 NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS TO BE BURNT ON SITE

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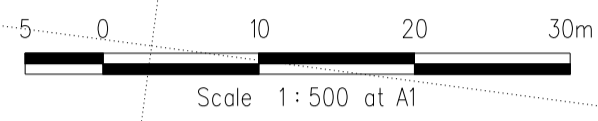
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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R02
GENERAL NOTES, SITE SPECIFIC NOTES & HUME CITY COUNCIL NOTES		REVISION G
		SHEET 2 OF 17

DETAIL PLAN



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

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SERVICE OFFSETS

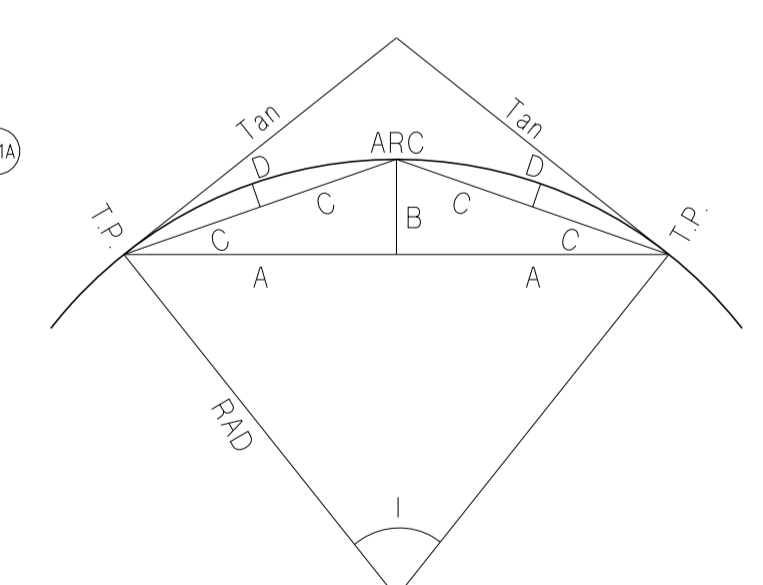
SERVICE OFFSETS (m) from building line (UNLESS NOTED OTHERWISE)

STREET NAME	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	SEWER
TRILLIUM BOULEVARD	2.05 W	2.55 W	3.05 W	3.60 E	2.775 E	Ex. 1.00 W
CELESTE STREET	2.05 E	2.55 E	3.05 E	2.60 W	1.775 W	-
NEBULA CRESCENT	2.05 N	2.55 N	3.05 N	2.60 S	1.775 S	-

TEMPORARY OUTFALL DRAIN
 1 in 500 LONGITUDINAL GRADE DOWNSTREAM
 (REFER SHEET R16 FOR FURTHER DETAILS)
 N.T.S.

LEGEND

- [Symbol] Kerb & Channel
- [Symbol] Footpath, Vehicular Crossing Layback & House Drain
- [Symbol] Proposed Underground Drainage, Pit & Property Inlet
- [Symbol] Existing Underground Drainage, Pit & Property Inlet
- [Symbol] Drainage Pit Number
- [Symbol] Design Surface Level - Allotments
- [Symbol] Existing Surface Level - Allotments
- [Symbol] Top of Batter Level - Allotments (Front)
- [Symbol] Kerb Level
- [Symbol] Pavement Level
- [Symbol] Proposed Cut Areas - Allotments
- [Symbol] Proposed Fill Areas - Allotments
- [Symbol] Service Conduits
 - Gas
 - Water
 - Recycled Water
 - Electricity
 - Telstra
 - Optic Fibre
- [Symbol] Gas Main
- [Symbol] Water Main
- [Symbol] Optic Fibre Underground Cable
- [Symbol] Electrical Underground Cable & Pit
- [Symbol] Telstra Underground Cable
- [Symbol] Sewer Main, Access Chamber & Inspection Shaft
- [Symbol] Existing Pole (with stay)
- [Symbol] Street Name Sign
- [Symbol] Existing Tree or Plantation
- [Symbol] P.S.M. or Survey Mark
- [Symbol] Lot Slope Direction
- [Symbol] T.B.M with Description
- NOTE:
 - Symbols are proposed construction (UNO)
 - Existing construction shown with broken lines
- [Symbol] Kerb Transition
- [Symbol] Vegetation to be Removed
- [Symbol] Concrete Retaining Wall



CURVE SETOUT TABLE

Curve	Radius	l	o	'	"	Arc	Tan	A	B	C	D
1	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
2	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61

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HUME CITY COUNCIL

VILLAWOOD PROPERTIES P/L
 TRILLIUM STAGE 2B
 MICKLEHAM
 ROAD AND DRAINAGE PLANS

PLAN NUMBER
**36182/2B
 R03**

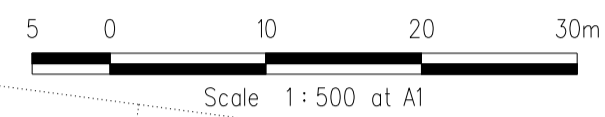
REVISION
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DETAIL PLAN, SERVICE OFFSET TABLE
 & CURVE SETOUT TABLE

SHEET 3 OF 17



DETAIL PLAN

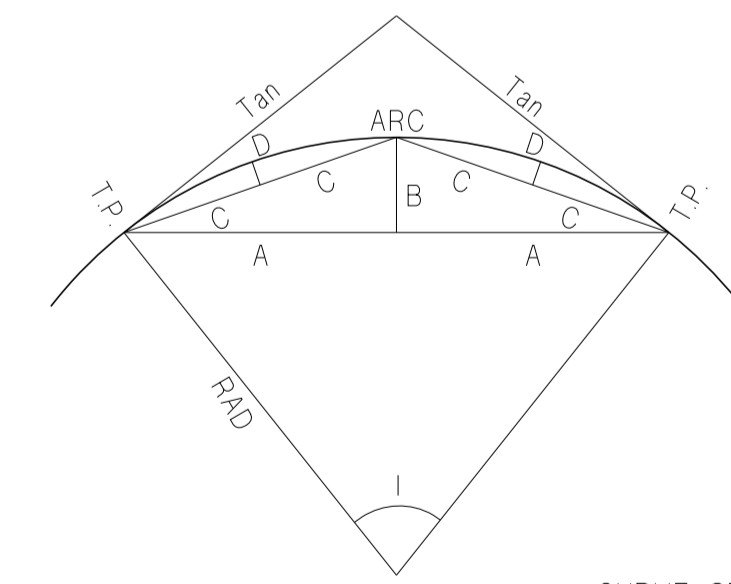


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LEGEND

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- Footpath, Vehicular Crossing Layback & House Drain
- Proposed Underground Drainage, Pit & Property Inlet
- Existing Underground Drainage, Pit & Property Inlet
- Drainage Pit Number
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- 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
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- Existing Pole (with stay)
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- T.B.M with Description
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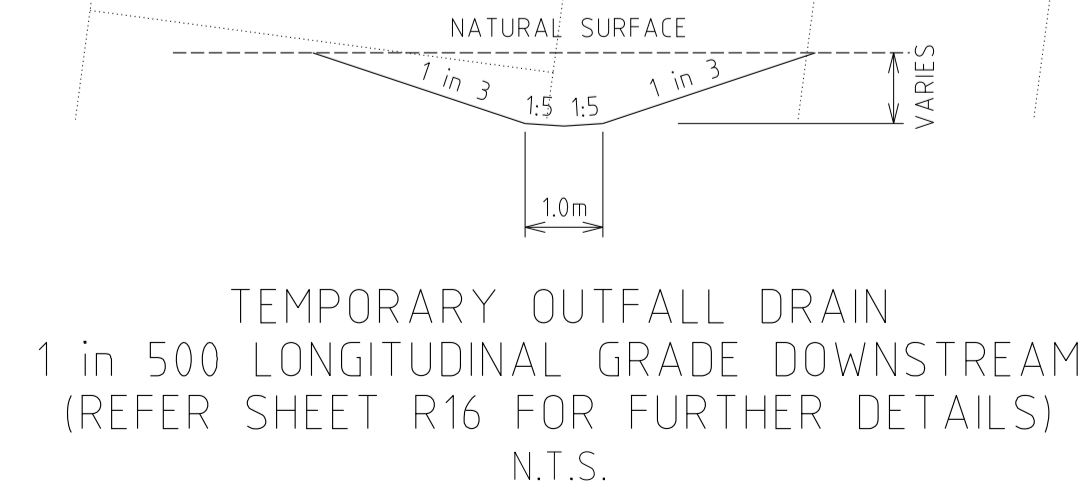


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SERVICE OFFSETS

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

STREET NAME	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	SEWER
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CELESTE STREET	2.05 E	2.55 E	3.05 E	2.60 W	1.775 W	-
NEBULA CRESCENT	2.05 N	2.55 N	3.05 N	2.60 S	1.775 S	-



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R03A
DETAIL PLAN, SERVICE OFFSET TABLE & CURVE SETOUT TABLE		REVISION G
		SHEET 34 OF 17

K1 KERB RETURN K1

POINT NO.	EASTING	NORTHING	RL
K11	3883.672	9951.629	250.599
K12	3886.644	9951.231	250.586
K13	3889.934	9951.439	250.615
K14	3892.895	9952.89	250.682
K15	3895.075	9955.364	250.744
K16	3896.142	9958.482	250.793

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

	250.619	250.599	250.586	250.591	250.615	250.649	250.682	250.731	250.744	250.793	250.858
DESIGN CENTRELINE											
EXISTING SURFACE		251.09	251.05	251.04	251.02	251.02	251.03	251.05	251.06	251.10	
CHAINAGES	-5.00	0.00	3.00	4.07	6.32	8.14	9.64	12.20	12.96	16.27	21.27

K1 LONGITUDINAL SECTION

K2 KERB RETURN K2

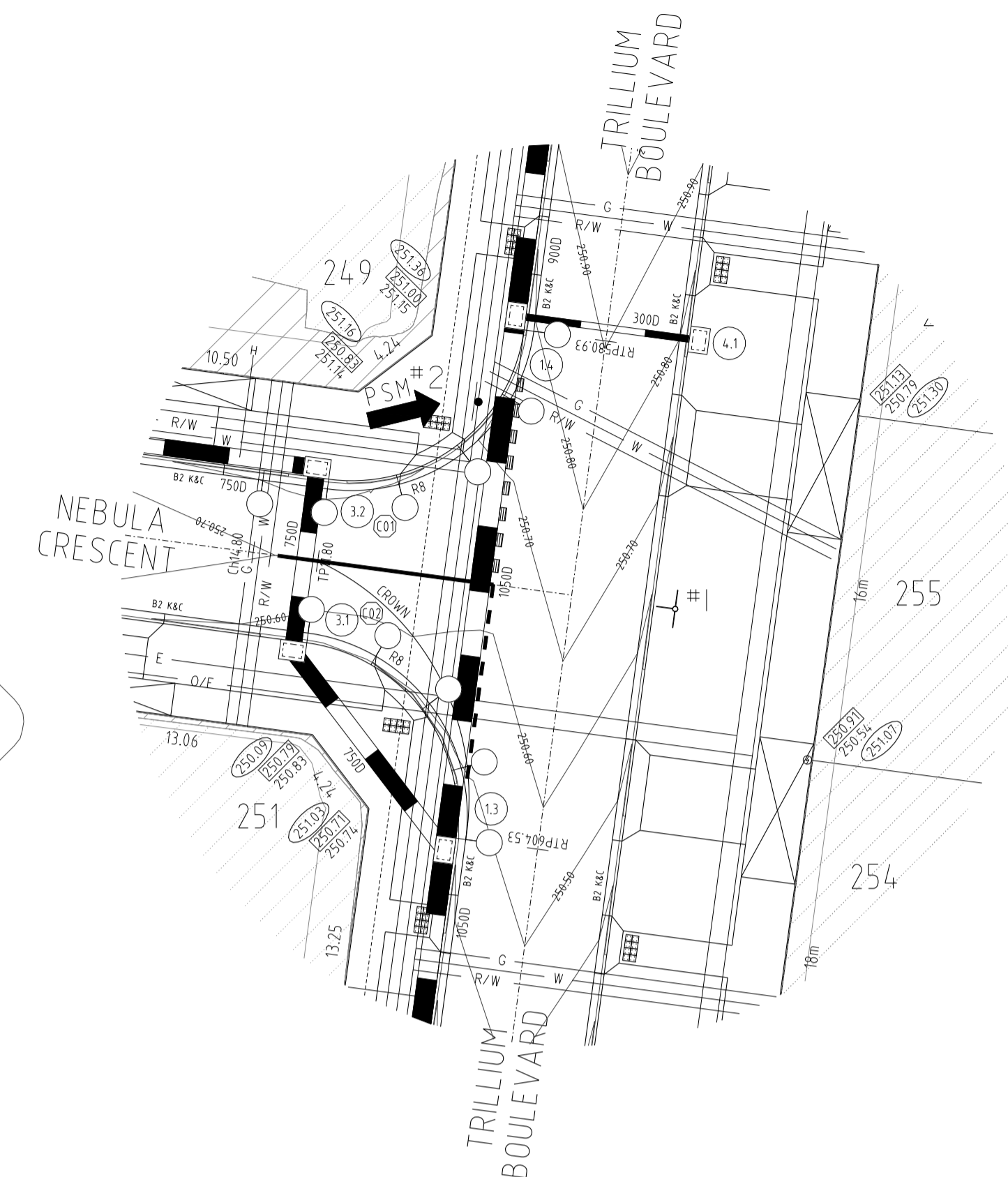
POINT NO.	EASTING	NORTHING	RL
K2.1	3893.006	9935.093	250.459
K2.2	3892.798	9938.383	250.495
K2.3	3891.347	9941.344	250.518
K2.4	3888.874	9943.523	250.54
K2.5	3885.755	9944.59	250.568

NOTE: SETOUT IS TO LIP OF KERB

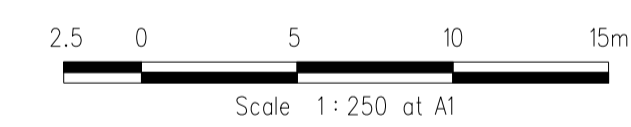
Vertical Grade
VC length

	250.382	250.459	250.459	250.479	250.495	250.518	250.540	250.542	250.554	250.568	250.568	250.619
DESIGN CENTRELINE												
EXISTING SURFACE		250.66	250.66	250.69	250.73	250.81	250.88	250.88	250.91	250.93	250.93	
CHAINAGES	-5.00	0.00	0.02	1.52	3.02	6.64	9.96	10.27	11.77	13.27	13.27	18.27

K2 LONGITUDINAL SECTION



INTERSECTION DETAILS



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

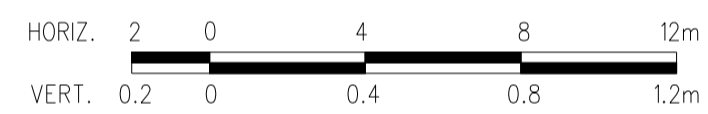
ALL WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS FOR ROAD AND DRAINAGE WORKS

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

LONGITUDINAL SECTIONS



Horiz. Scale 1:200 at A1
Vert. Scale 1:20 at A1

REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	7/05/2013
7/05/13	G AS CONSTRUCTED	ZWL	LEVEL DATA:	K:\36182\36182\LT.OPO
10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	DATUM:	AHD
7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.:	36182_2B
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L. DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L. DATE: APR 2012
FILENAME k:\36182\36182_2b\dgn\r04.dgn			AUTHORISED:	A.S.C. DATE: APR 2012

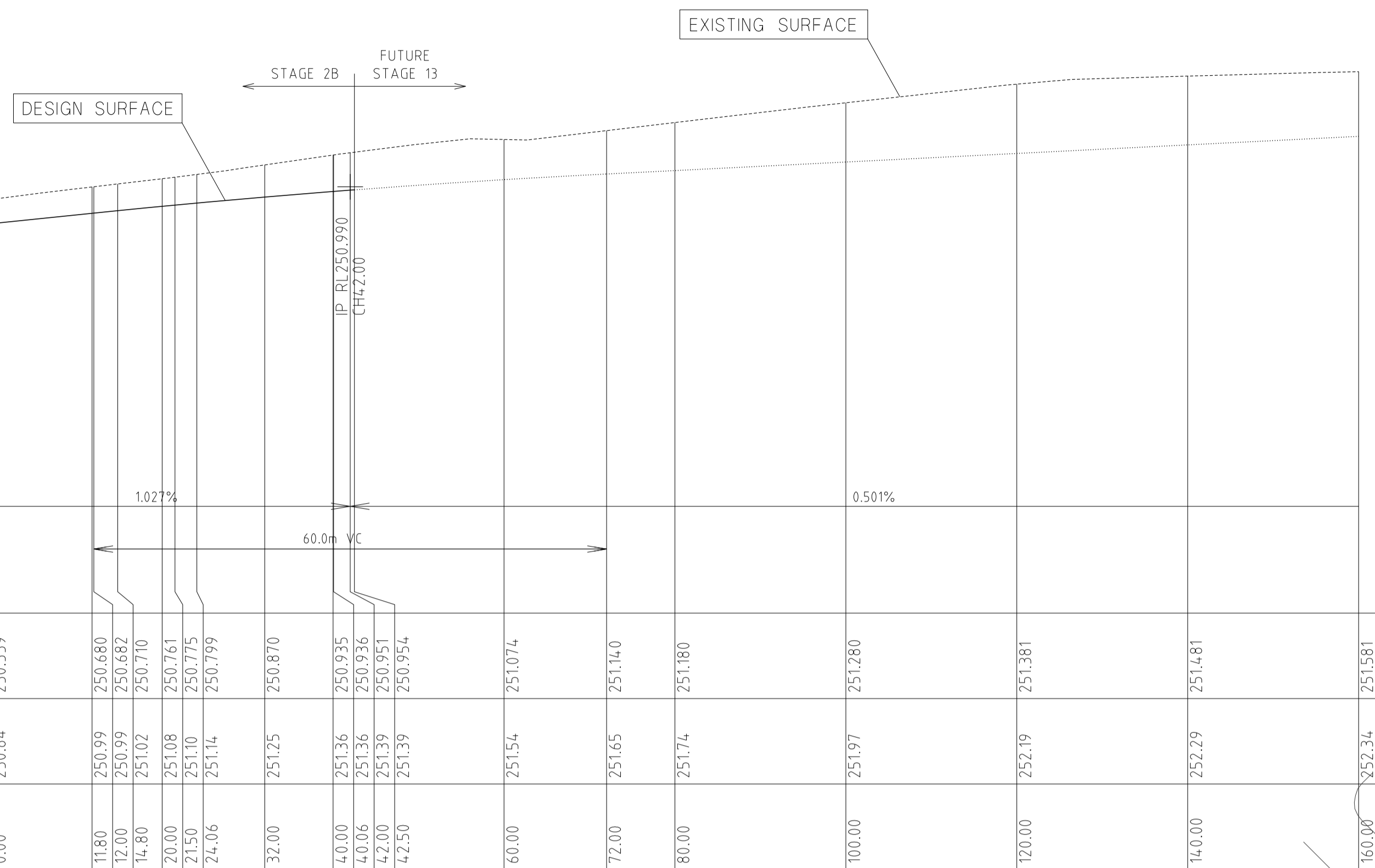
WATSONS
MORNINGTON: 5 Main Street, P.O. Box 171 3931, Phone: (03) 5975 4444, Fax: (03) 5975 1916, DX 93118 Mornington
MELBOURNE: The Melbourne, Suite 2, 326 St. Kilda Road, Melbourne, 3002, Phone: (03) 9697 8000, Fax: (03) 9697 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R04
INTERSECTION DETAILS & LIP OF KERB PROFILES		REVISION G
		SHEET 4 OF 17

NEBULA CRESCENT
LONGITUDINAL SECTION

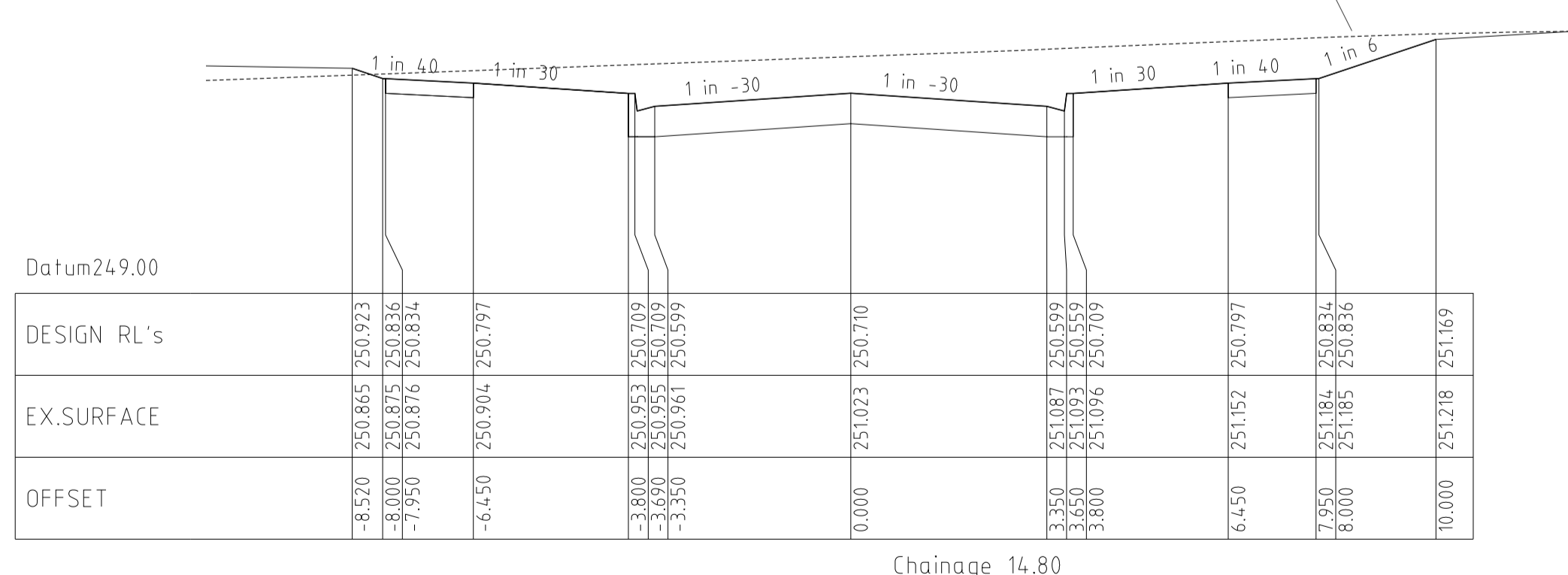
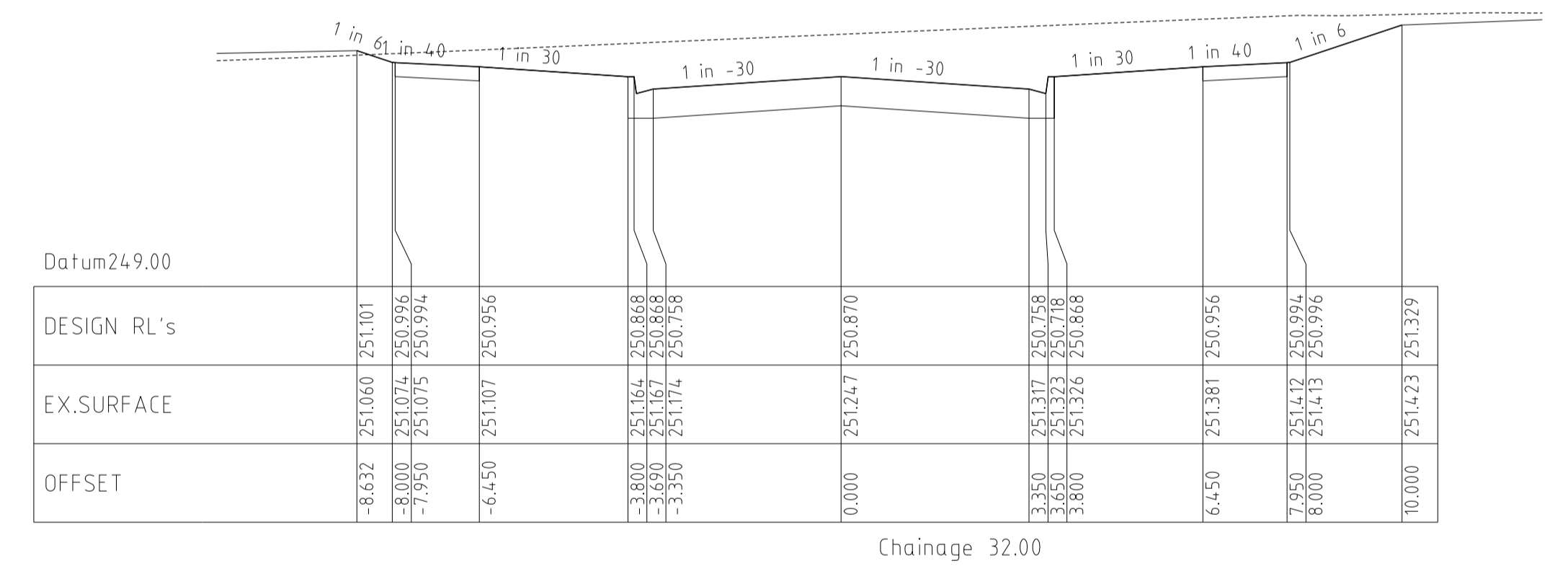
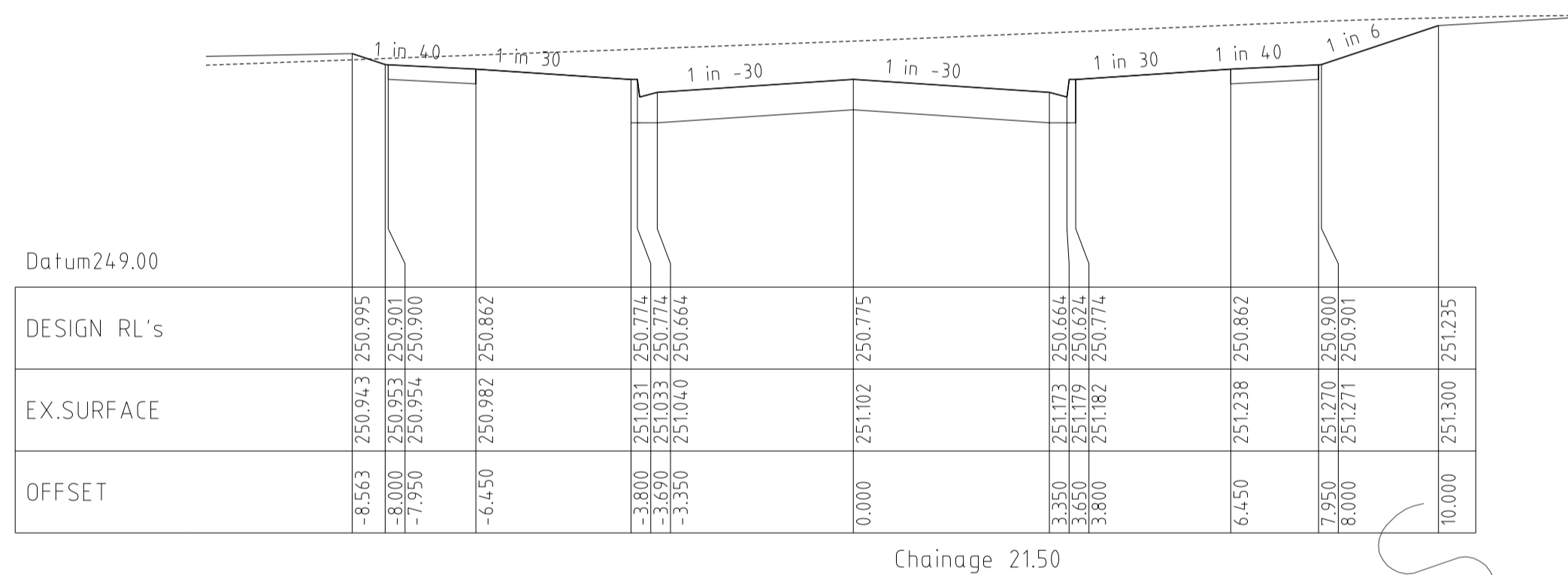
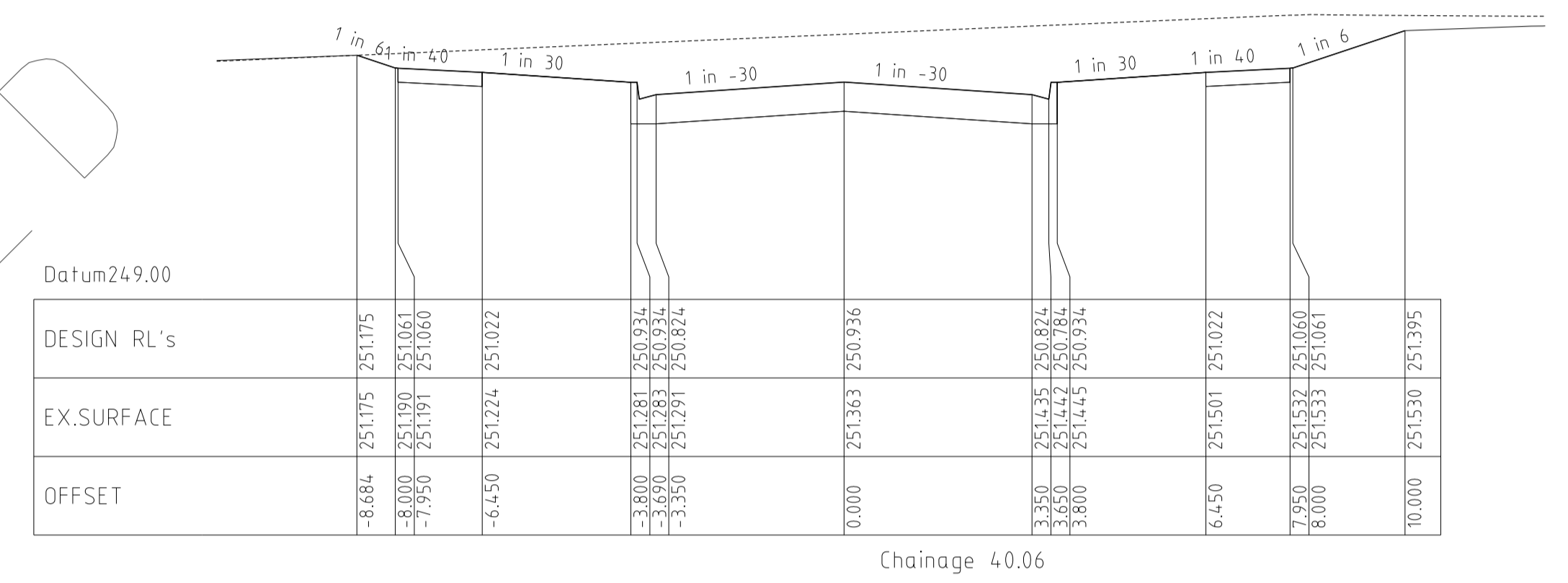
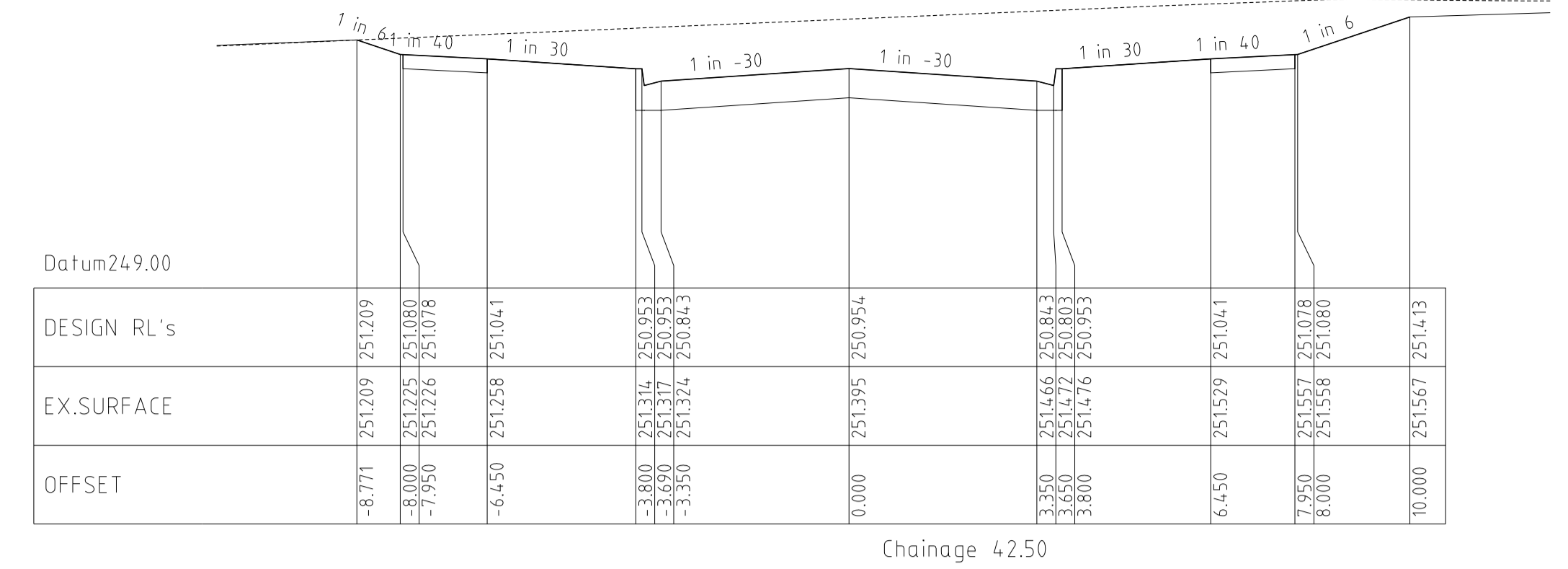
HORIZ 5 0 10 20 30m
VERT 0 5 0 1 2 3m

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



Horizontal Geometry
Vertical Grade
VC length

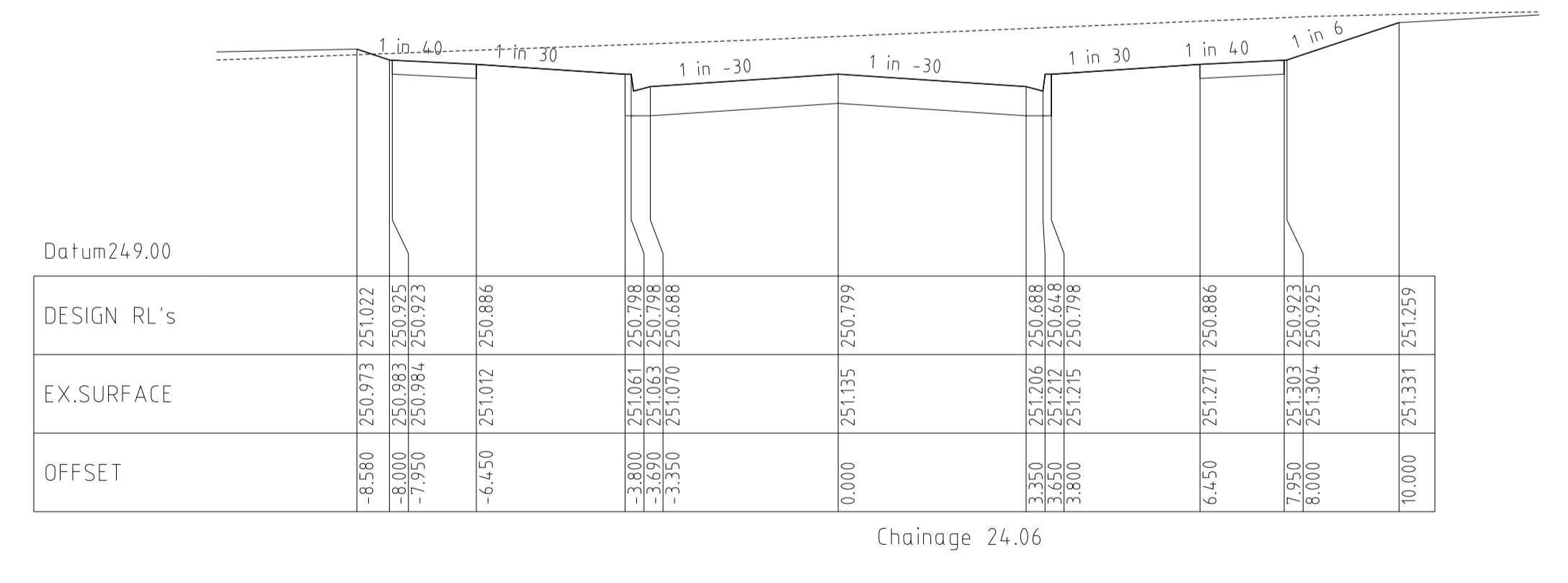
CHAINAGES	0.00	11.80	12.00	14.80	20.00	21.50	24.06	32.00	40.00	40.06	42.00	42.50	60.00	72.00	80.00	100.00	120.00	140.00	160.00
DESIGN CENTRELINE	250.559	250.680	250.662	250.710	250.761	250.795	250.799	250.870	250.935	250.936	250.931	250.954	251.074	251.140	251.180	251.280	251.381	251.481	251.581
EXISTING SURFACE	250.84	250.99	250.99	251.02	251.08	251.10	251.14	251.25	251.36	251.36	251.39	251.39	251.54	251.65	251.74	251.97	252.19	252.29	252.34



NEBULA CRESCENT
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:	7/05/2013
7/05/13	G AS CONSTRUCTED	ZWL	LEVEL DATA:	K:\36182\36182\LT00
10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	DATUM:	AHD
7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.:	36182_2B
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L. DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L. DATE: APR 2012
FILENAME k:\36182\36182 2b\dgn\r05.dgn			AUTHORISED:	A.S.C DATE: APR 2012

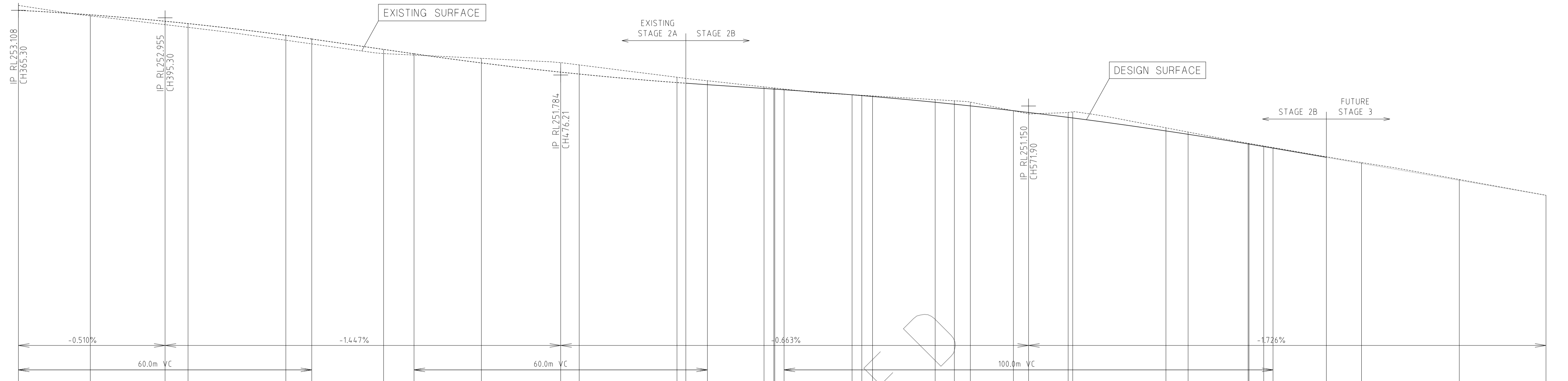
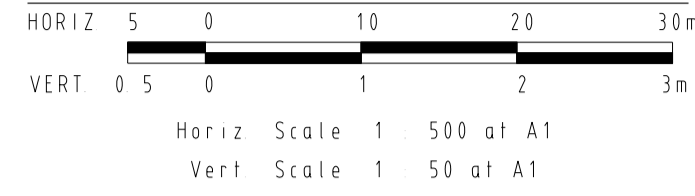


MORNINGTON
5 Main Street
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Fax: (03) 5975 3916
DX 93118 Mornington

MELBOURNE
The Melbourne, Suite 2
25 St. Kilda Road,
Melbourne, 3002
Phone: (03) 9697 8600
Fax: (03) 9697 8099

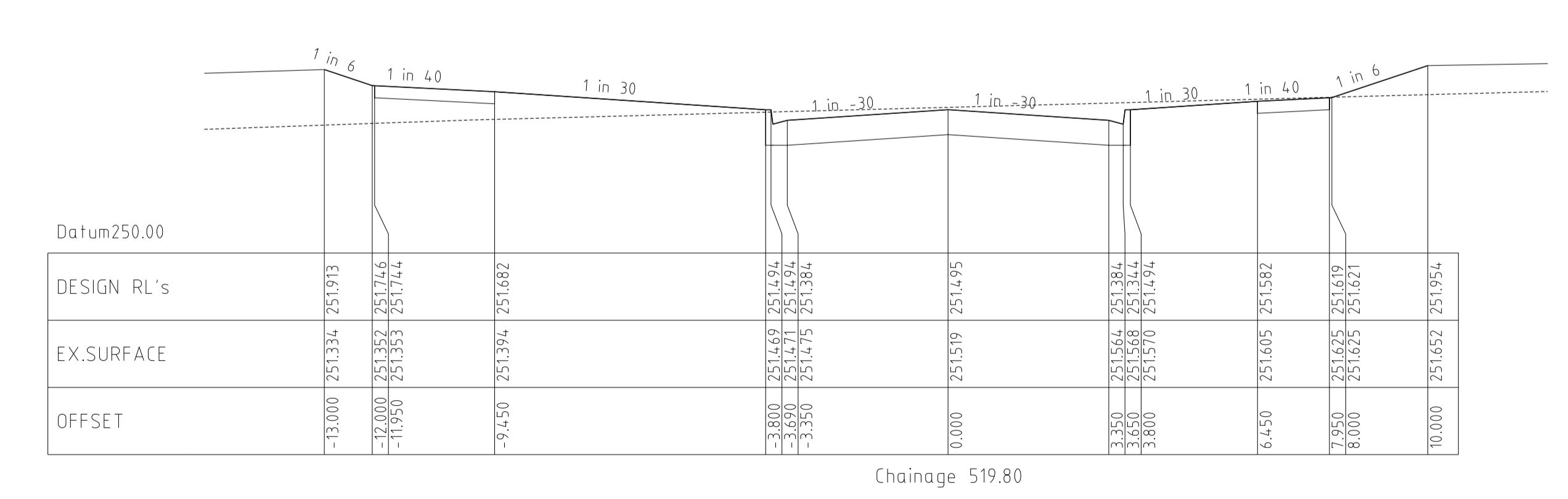
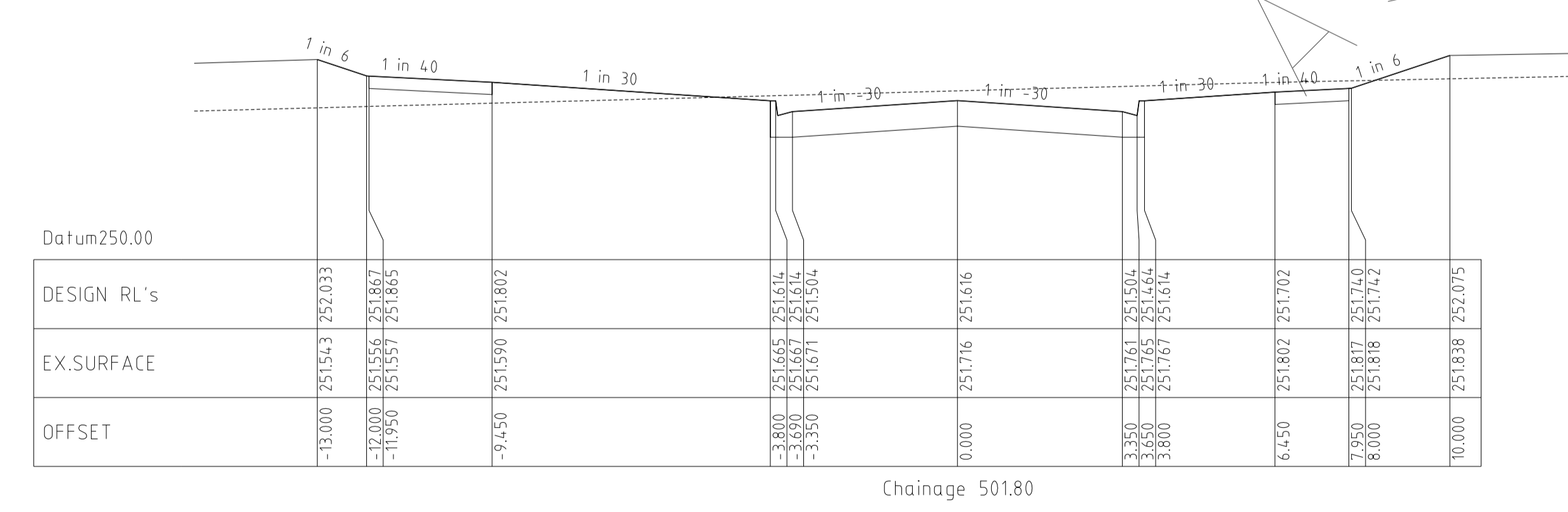
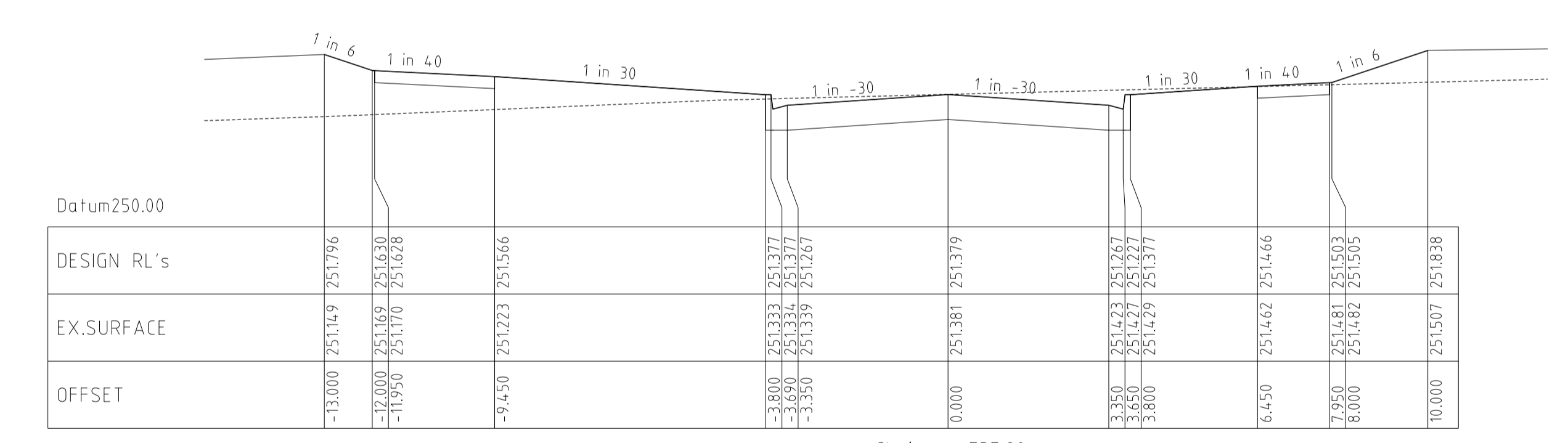
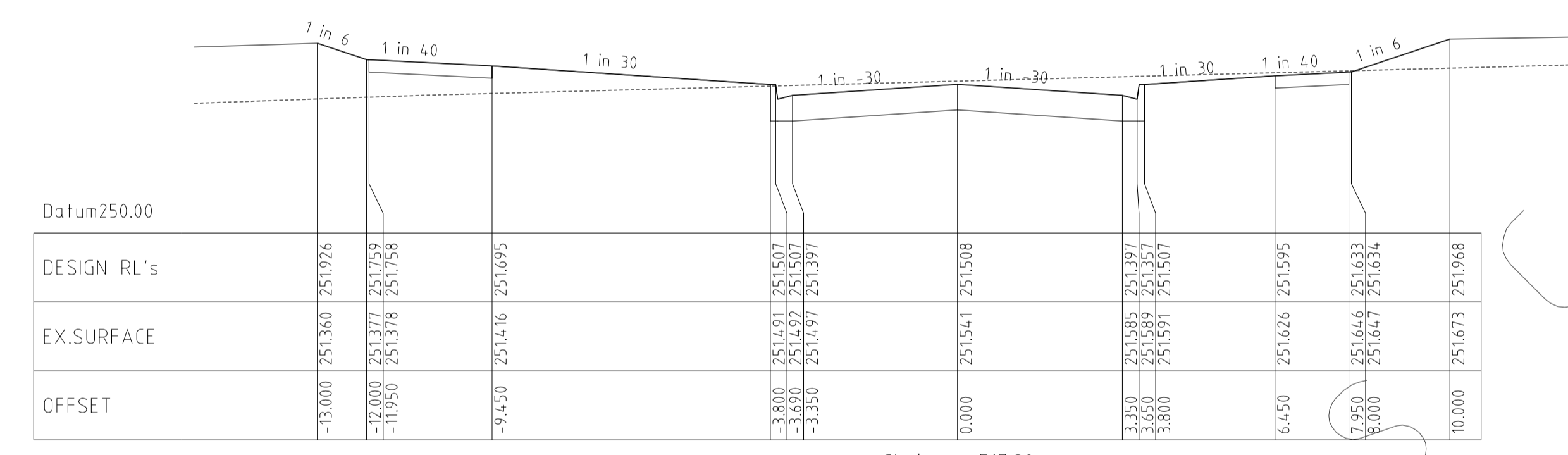
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R05
NEBULA CRESCENT LONGITUDINAL & CROSS SECTIONS		REVISION G
		SHEET 5 OF 17

TRILLIUM BOULEVARD
LONGITUDINAL SECTION

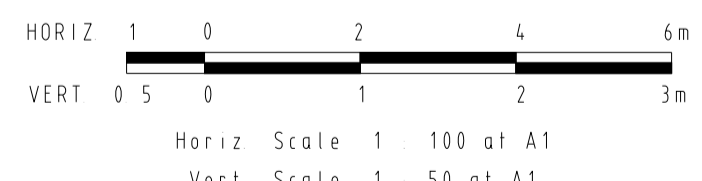


Horizontal Geometry
Vertical Grade
VC length

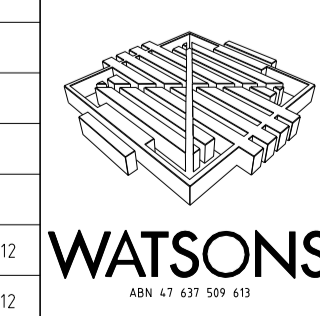
Datum RL.245	CHAINAGES	EXISTING SURFACE	DESIGN CENTRELINE
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	380.00	252.99	253.016
	395.30	252.81	252.885
	400.00	252.76	252.837
	420.00	252.50	252.595
	425.30	252.42	252.521
	440.00	252.22	252.308
	446.21	252.19	252.218
	460.00	252.12	252.031
	476.21	252.04	251.843
	480.00	251.99	251.804
	500.00	251.74	251.629
	501.80	251.72	251.616
	506.21	251.67	251.585
	517.80	251.54	251.508
	519.80	251.52	251.495
	520.00	251.52	251.494
	521.90	251.50	251.481
	535.80	251.38	251.379
	537.80	251.37	251.362
	540.00	251.36	251.344
	552.80	251.28	251.226
	556.73	251.26	251.186
	560.00	251.23	251.152
	568.80	251.05	251.054
	571.90	250.99	251.017
	580.00	251.02	250.917
	580.93	251.03	250.905
	600.00	250.70	250.639
	604.53	250.62	250.571
	616.80	250.39	250.374
	616.98	250.39	250.371
	620.00	250.33	250.320
	621.90	250.30	250.287
	632.80	250.11	250.099
	640.00	249.99	249.975
	660.00	249.65	249.629
	677.73	249.32	249.323



TRILLIUM BOULEVARD
CROSS SECTIONS



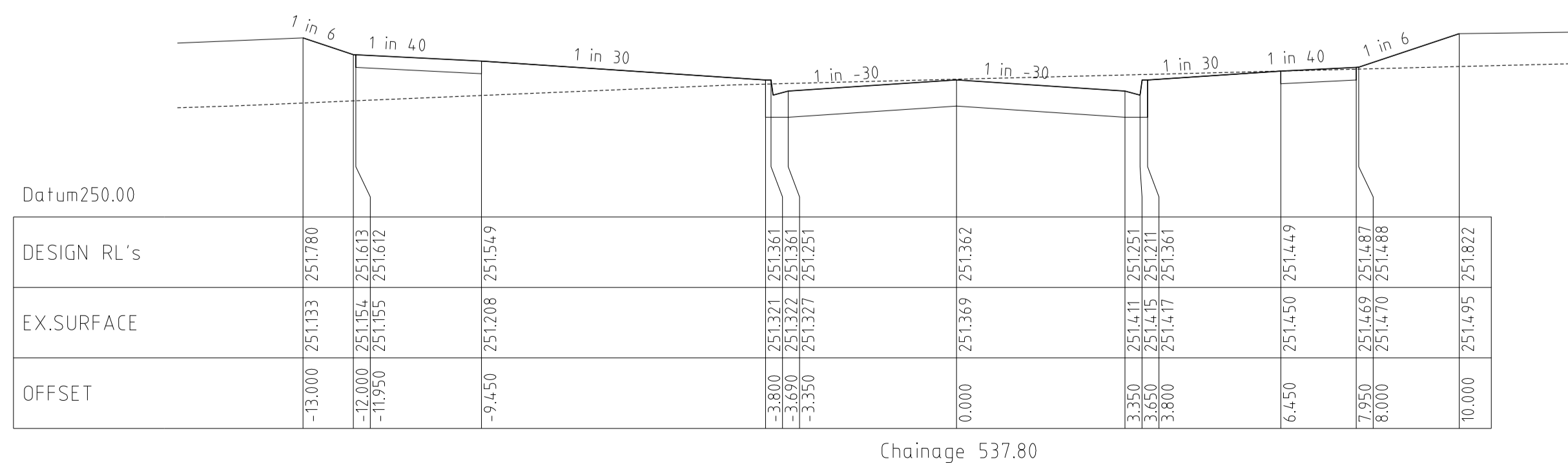
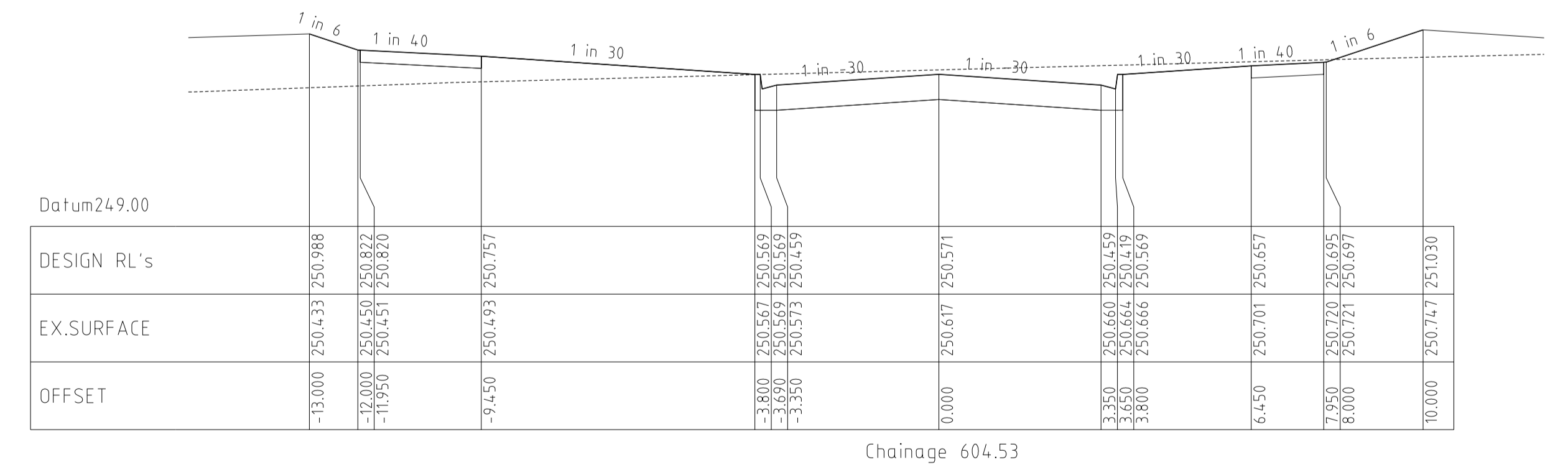
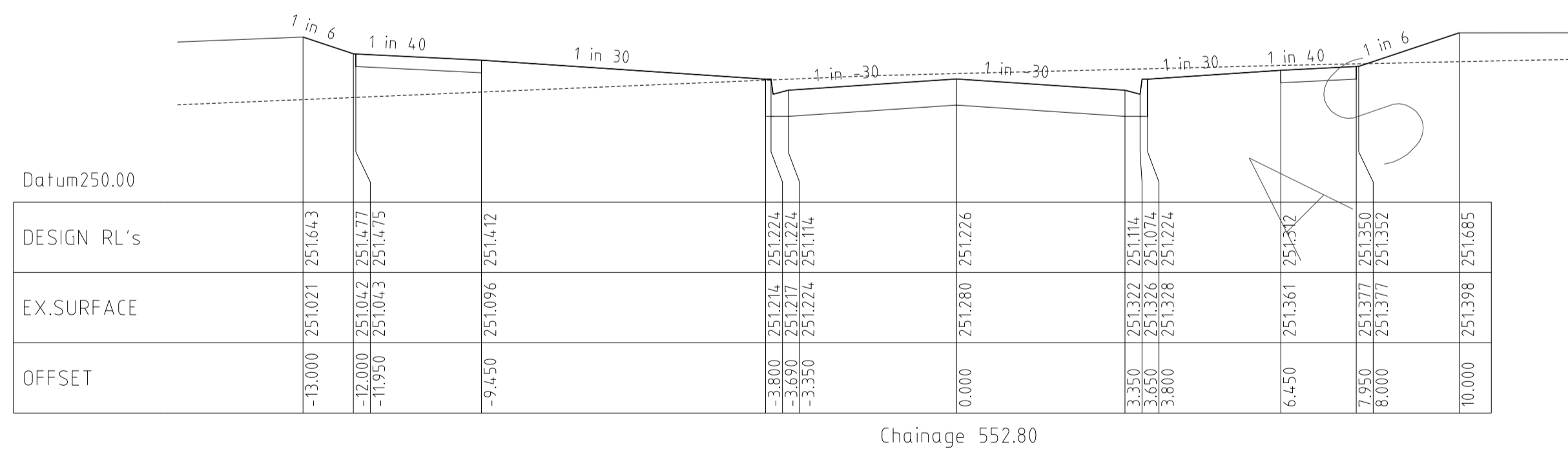
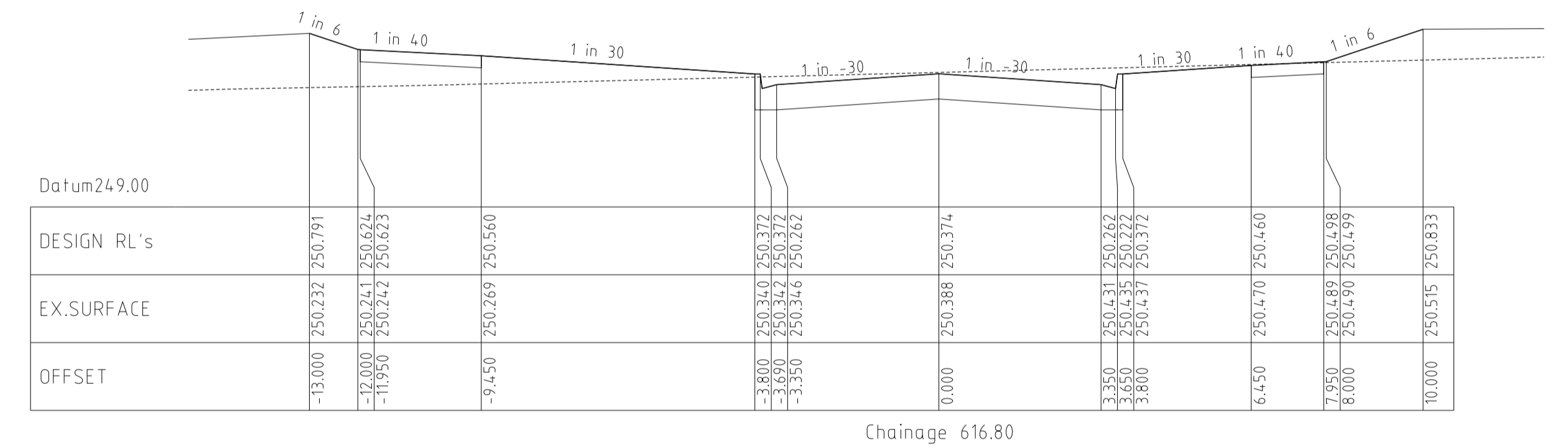
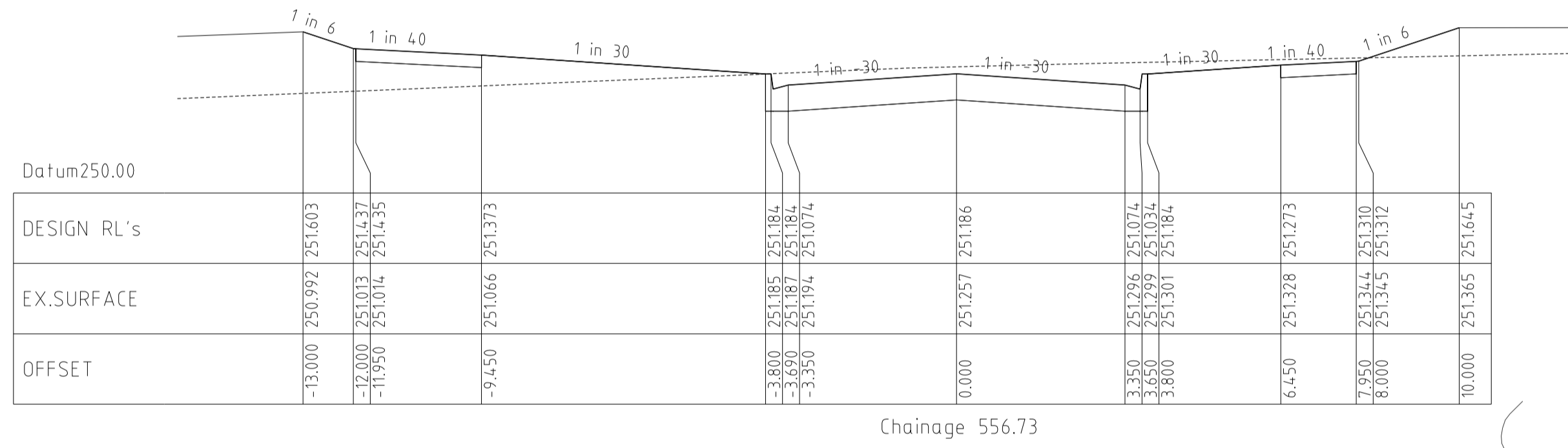
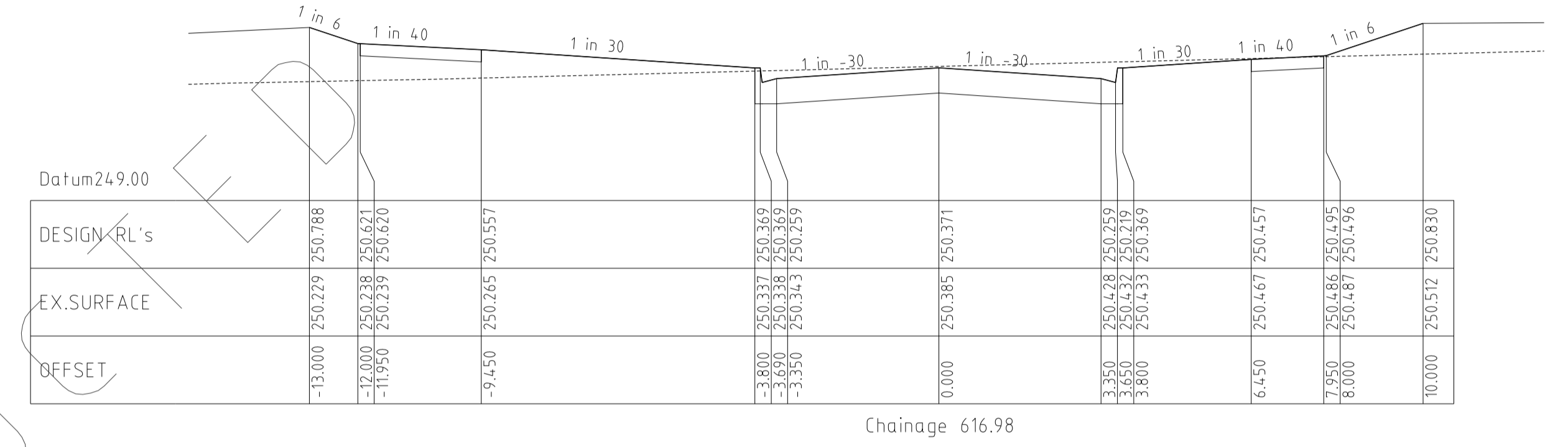
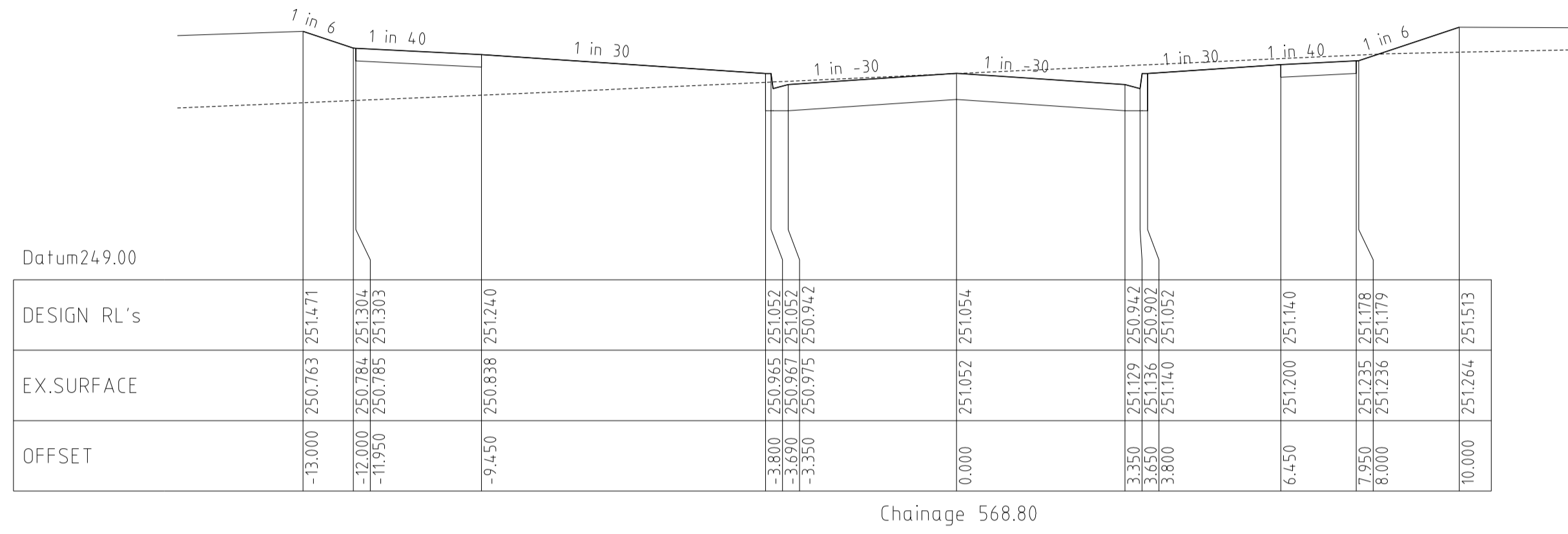
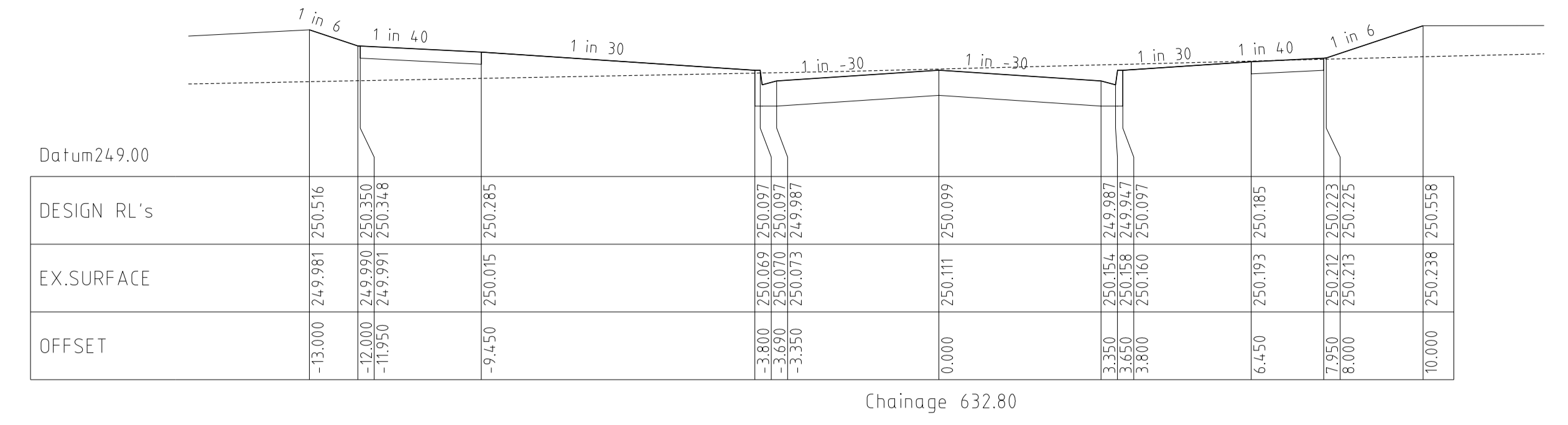
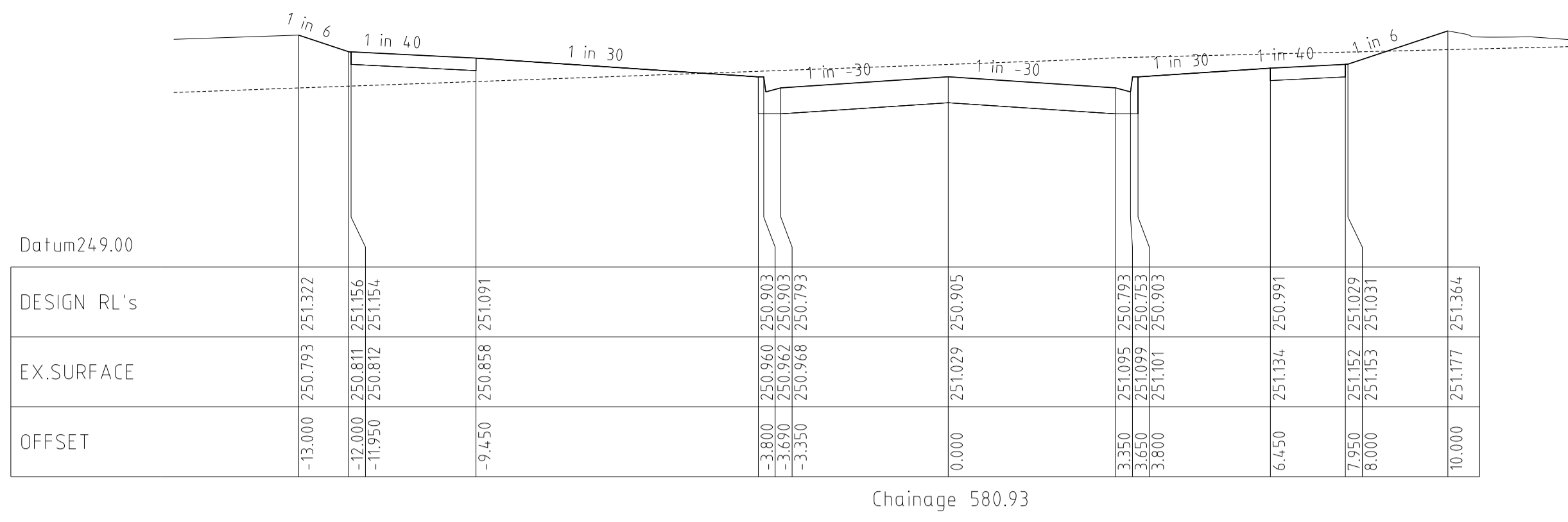
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	7/05/2013
7/05/13	G	AS CONSTRUCTED	ZWL	LEVEL DATA: K:\36182\36182\LT00
10/04/13	F	CROSSOVER AMENDMENT LOT 272	ZWL	DATUM: AHD
7/03/13	E	CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.: 36182_2B
30/11/12	D	PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN: Z.W.L. DATE: APR 2012
29/11/12	C	DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED: Z.W.L. DATE: APR 2012
FILENAME k:\36182\36182_2b\dgn\r06.dgn			AUTHORISED:	A.S.C. DATE: APR 2012



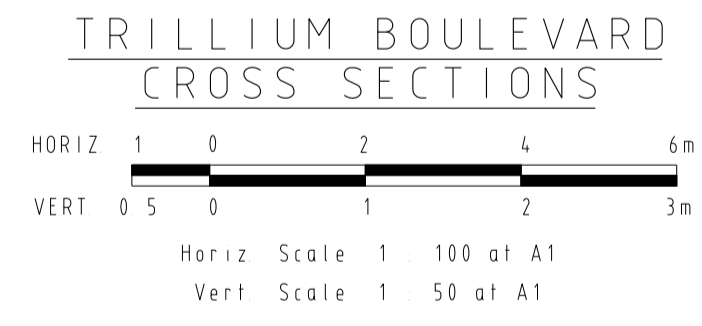
MORNINGTON
5 Main Street
P.O. Box 111 3931
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DX 93118 Mornington

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The Melbourne, Suite 2
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Melbourne, 3002
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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R06
TRILLIUM BOULEVARD LONGITUDINAL & CROSS SECTIONS		REVISION G
		SHEET 6 OF 17



CONSTRU



REVISIONS				SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	7/05/2013	
7/05/13	G AS CONSTRUCTED	ZWL	LEVEL DATA:	K:\36182\36182\LT00	
10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	DATUM:	AHD	
7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.:	36182_2B	
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L	DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L	DATE: APR 2012
FILENAME k \36182\36182 2b\dgn\r07.dgn			AUTHORISED:	A.S.C	DATE: APR 2012

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

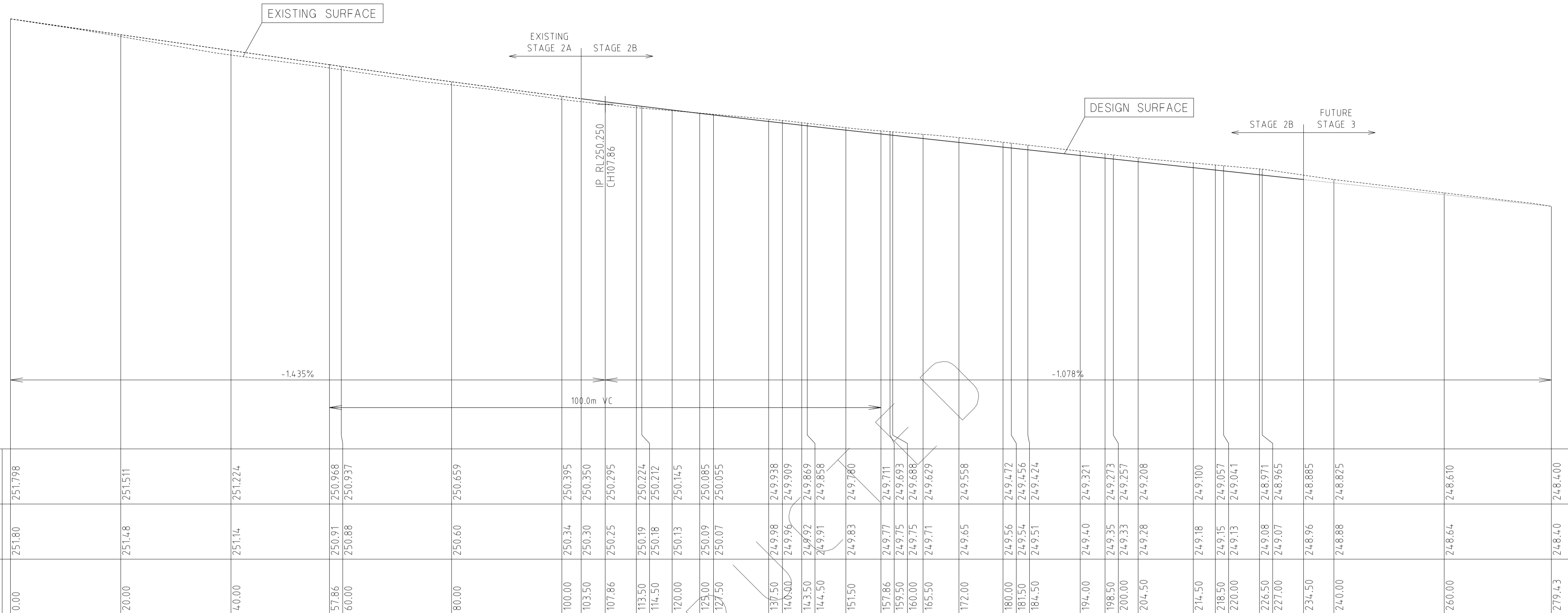
MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Road
Melbourne, 3002
Phone: (03) 9697 8000
Fax: (03) 9697 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R07
TRILLIUM BOULEVARD CROSS SECTIONS		REVISION G
		SHEET 7 OF 17

CELESTE STREET
LONGITUDINAL SECTION

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

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



Datum 249.00

CHAINAGE	DESIGN RL'S	EX. SURFACE	OFFSET
113.50	250.020	250.020	-10.513
114.50	250.439	250.439	-8.000
115.50	250.437	250.437	-7.950
116.50	250.399	250.399	-6.450
117.50	250.223	250.223	-3.800
118.50	250.223	250.223	-3.650
119.50	250.115	250.115	-3.350
120.00	250.224	250.224	0.000
121.00	250.113	250.113	3.350
122.00	250.073	250.073	3.650
123.00	250.223	250.223	3.800
124.00	250.399	250.399	6.450
125.00	250.137	250.137	7.950
126.00	250.439	250.439	8.000
127.00	251.105	251.105	12.000

Chainage 113.50

Datum 249.00

CHAINAGE	DESIGN RL'S	EX. SURFACE	OFFSET
103.50	250.129	250.129	-10.612
104.50	250.544	250.544	-8.000
105.50	250.542	250.542	-7.950
106.50	250.525	250.525	-6.450
107.50	250.348	250.348	-3.800
108.50	250.348	250.348	-3.650
109.50	250.238	250.238	-3.350
110.50	250.238	250.238	-3.350
111.50	250.350	250.350	0.000
112.50	250.350	250.350	3.350
113.50	250.348	250.348	3.800
114.50	250.525	250.525	6.450
115.50	250.399	250.399	7.950
116.50	250.562	250.562	8.000
117.50	250.564	250.564	12.000

Chainage 103.50

Datum 249.00

CHAINAGE	DESIGN RL'S	EX. SURFACE	OFFSET
125.00	249.908	249.908	-10.346
126.00	250.299	250.299	-8.000
127.00	250.297	250.297	-7.950
128.00	250.260	250.260	-6.450
129.00	250.083	250.083	-3.800
130.00	250.083	250.083	-3.650
131.00	249.973	249.973	-3.350
132.00	250.085	250.085	0.000
133.00	250.260	250.260	3.350
134.00	249.973	249.973	3.650
135.00	250.299	250.299	3.800
136.00	250.260	250.260	6.450
137.00	250.287	250.287	7.950
138.00	250.299	250.299	8.000
139.00	250.965	250.965	12.000

Chainage 125.00

Datum 249.00

CHAINAGE	DESIGN RL'S	EX. SURFACE	OFFSET
114.50	250.009	250.009	-10.505
115.50	250.426	250.426	-8.000
116.50	250.425	250.425	-7.950
117.50	250.387	250.387	-6.450
118.50	250.110	250.110	-3.800
119.50	250.110	250.110	-3.650
120.50	250.122	250.122	-3.350
121.50	250.212	250.212	0.000
122.50	250.387	250.387	6.450
123.50	250.100	250.100	7.950
124.50	250.060	250.060	8.000
125.50	250.210	250.210	12.000

Chainage 114.50

CELESTE STREET
CROSS SECTIONS

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

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

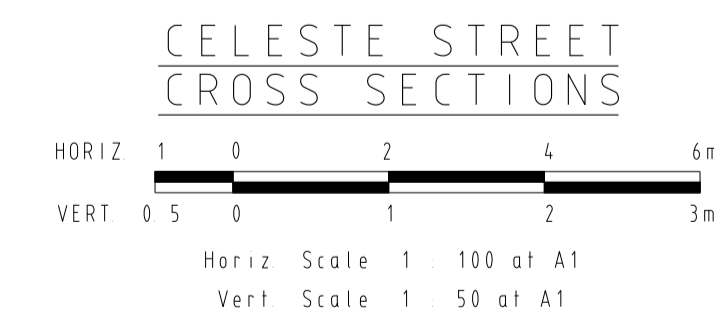
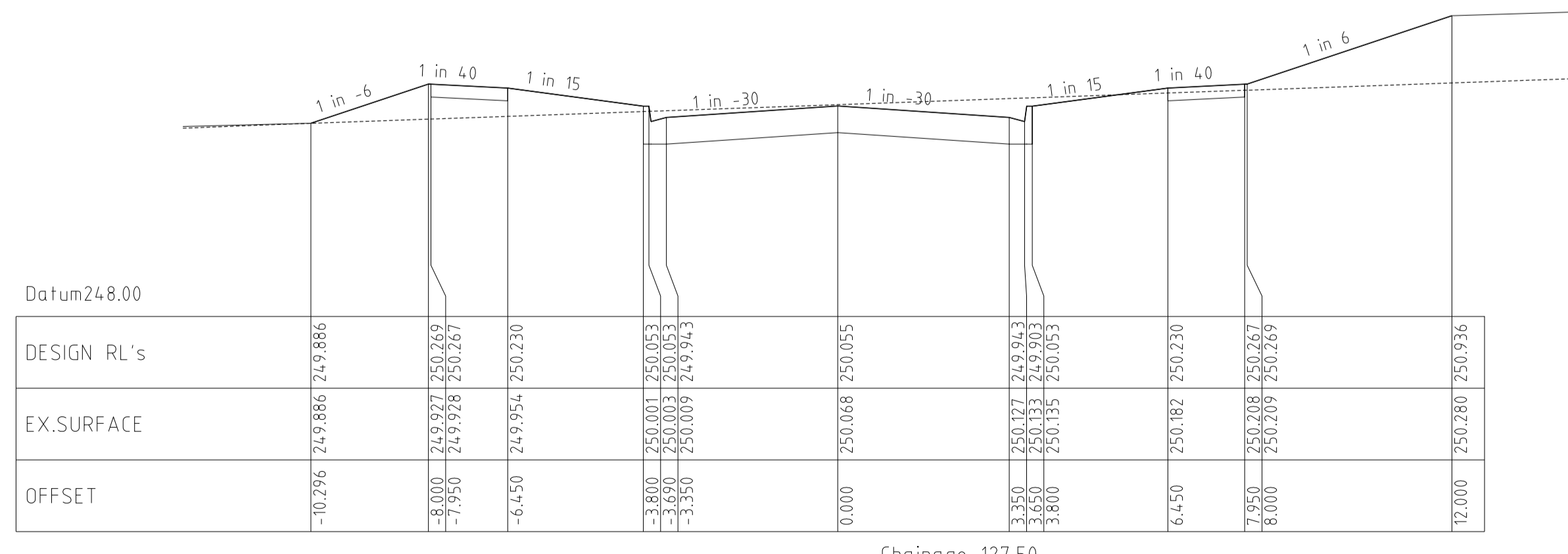
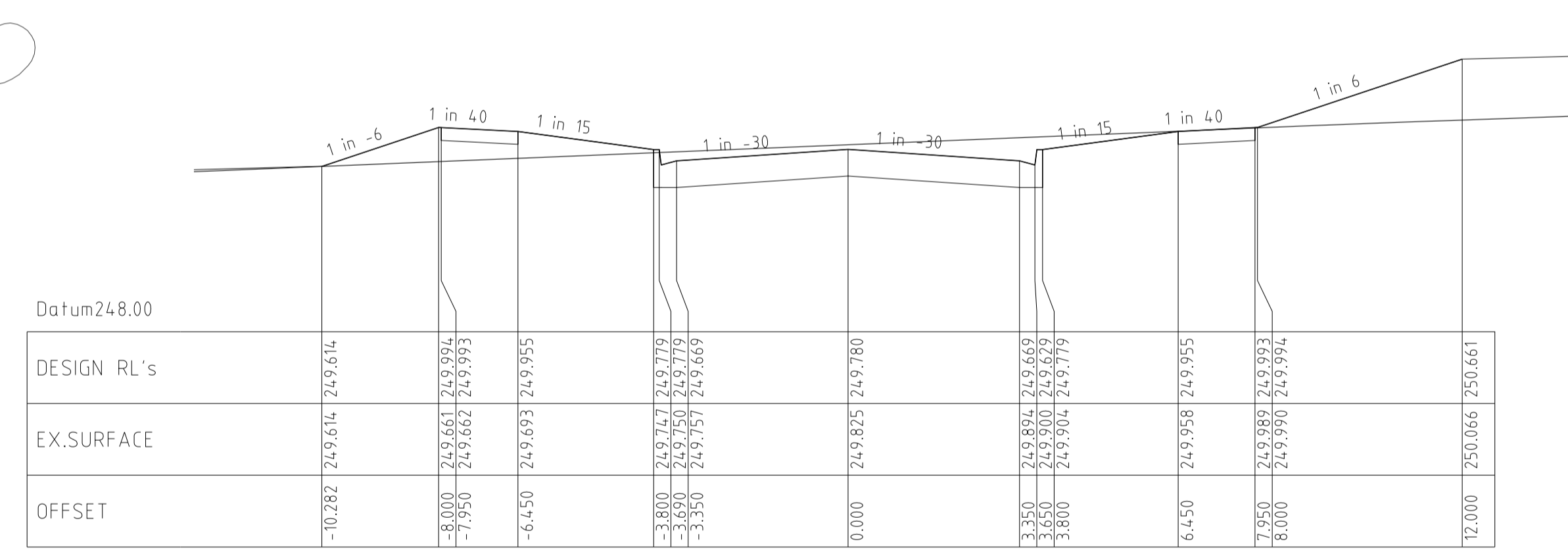
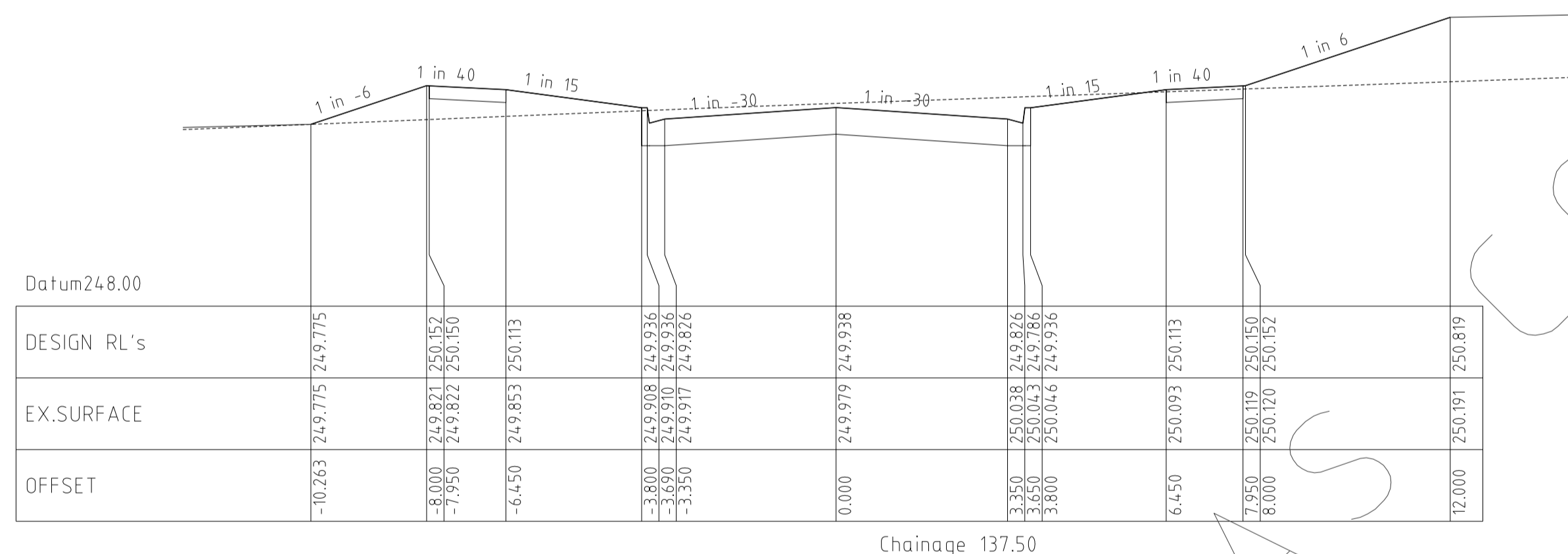
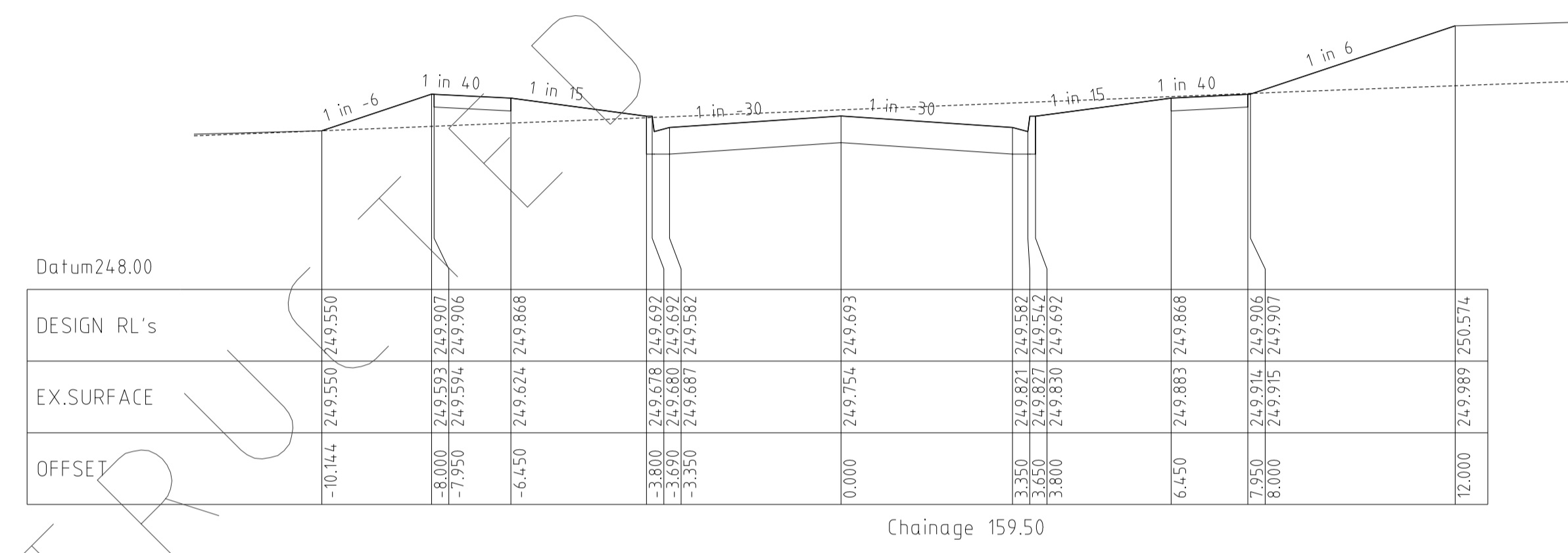
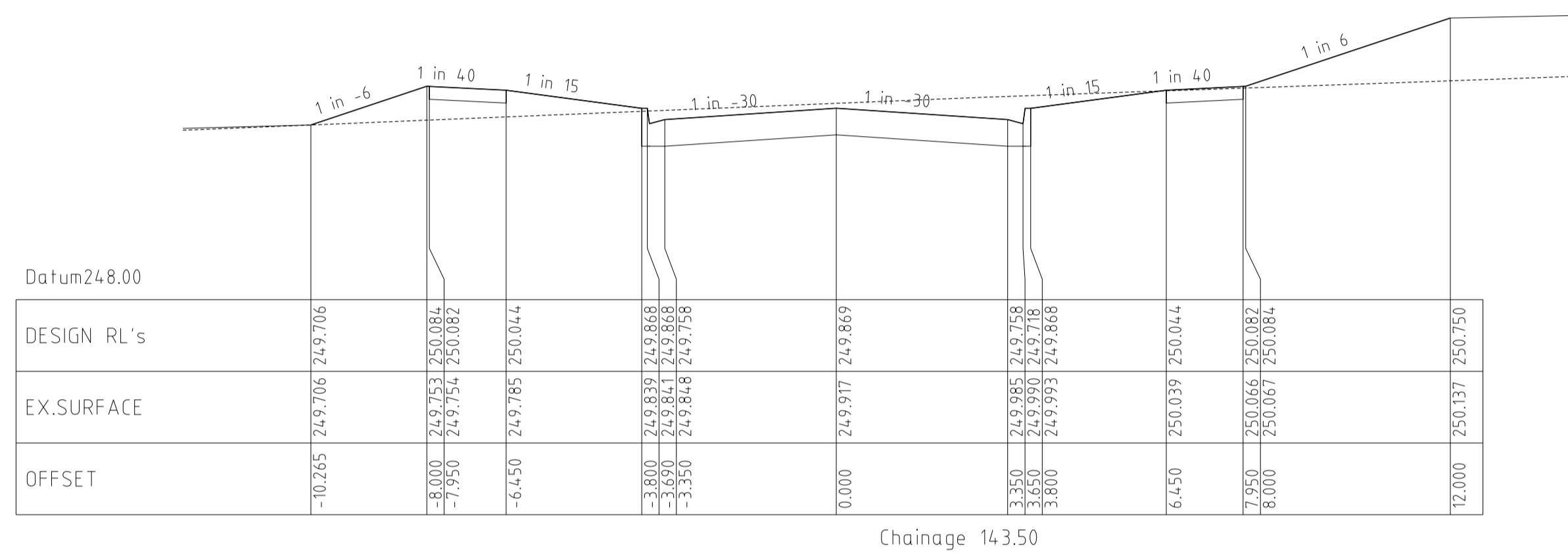
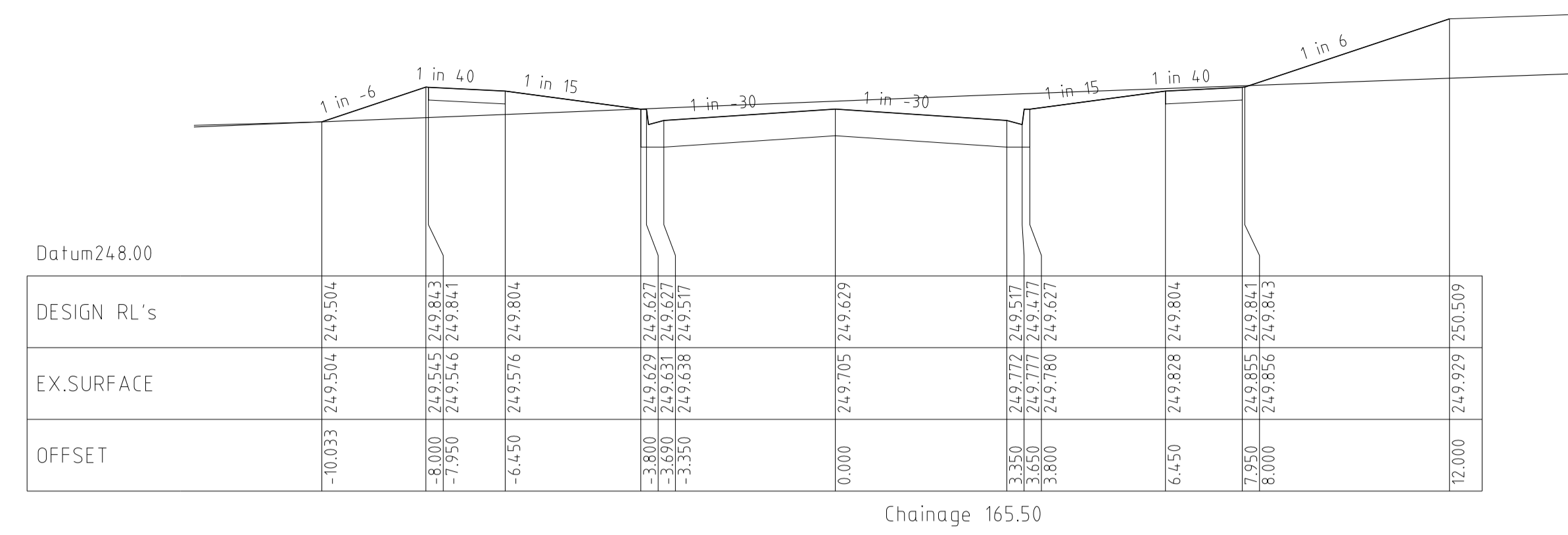
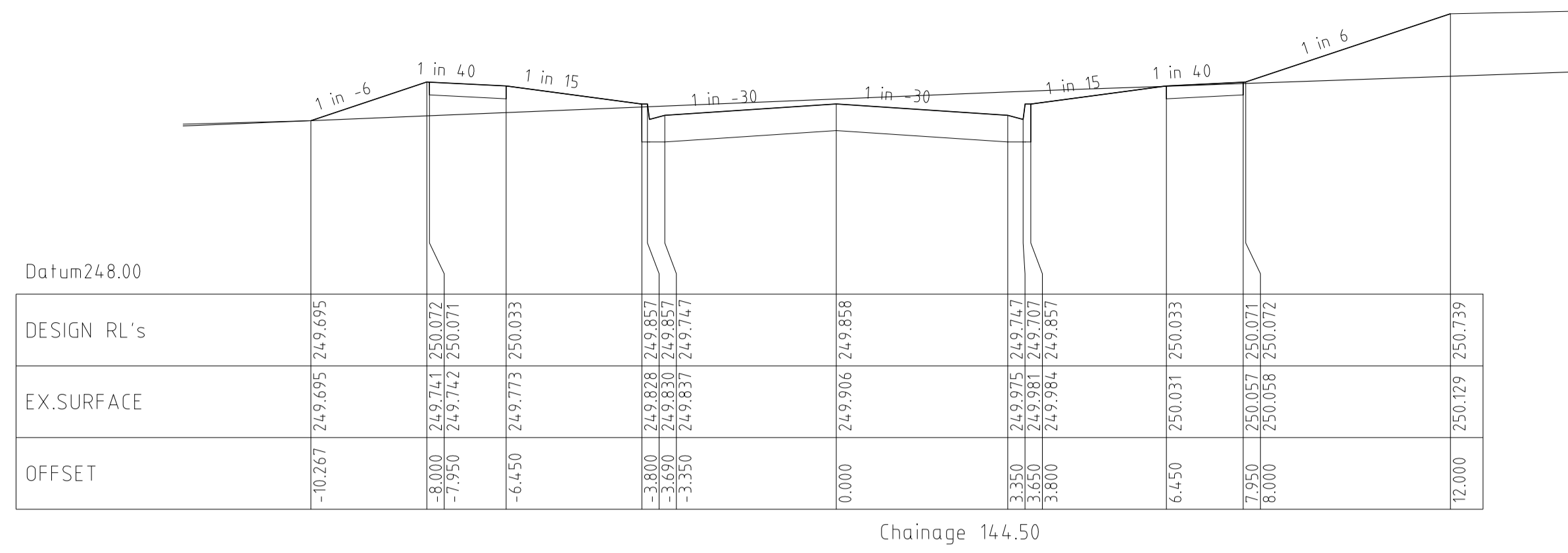
REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	7/05/2013
7/05/13	G AS CONSTRUCTED	ZWL	LEVEL DATA:	K:\36182\36182\LT00
10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	DATUM:	AHD
7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.:	36182_2B
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L. DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L. DATE: APR 2012
FILENAME k:\36182\36182_2b\dgn\r08.dgn			AUTHORISED:	A.S.C. DATE: APR 2012



MORNINGTON
5 Main Street
P.O. Box 111 3911
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DX 93118 Mornington

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The Melbourne Suite 2
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Melbourne, 3002
Phone: (03) 9697 8000
Fax: (03) 9697 8099

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R08
CELESTE STREET LONGITUDINAL & CROSS SECTIONS		REVISION G
		SHEET 8 OF 17



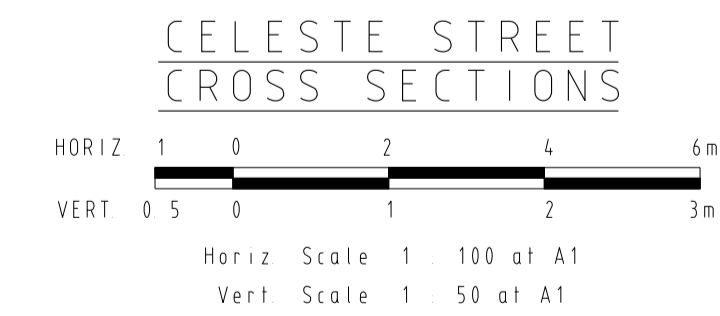
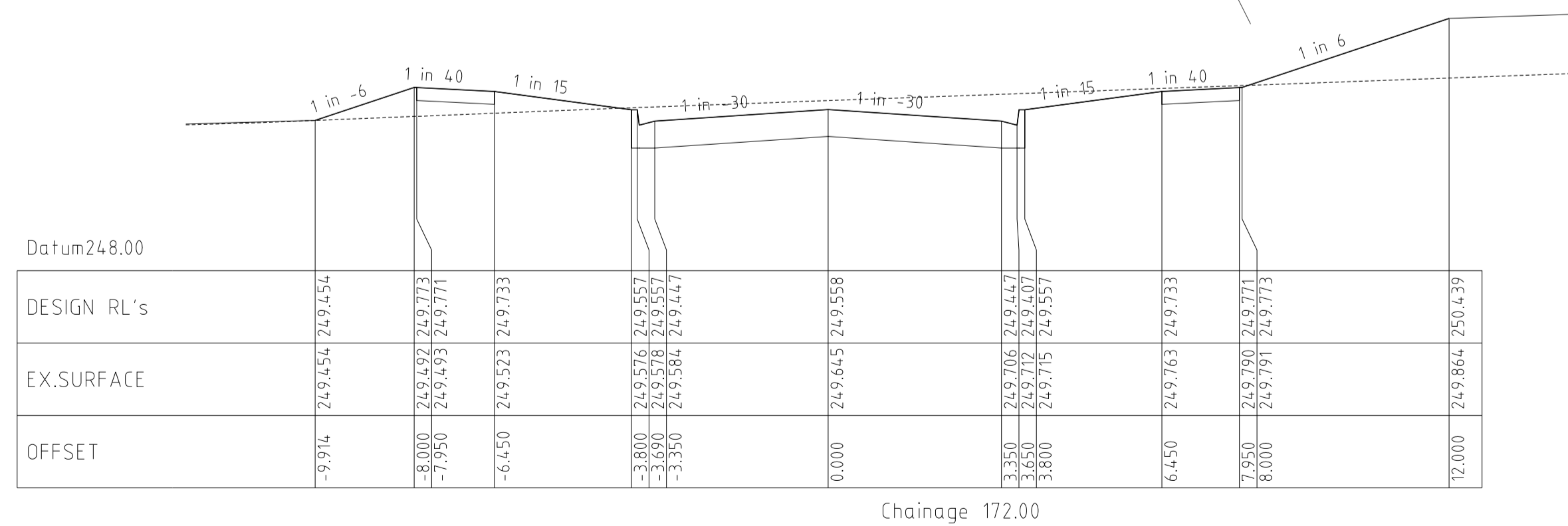
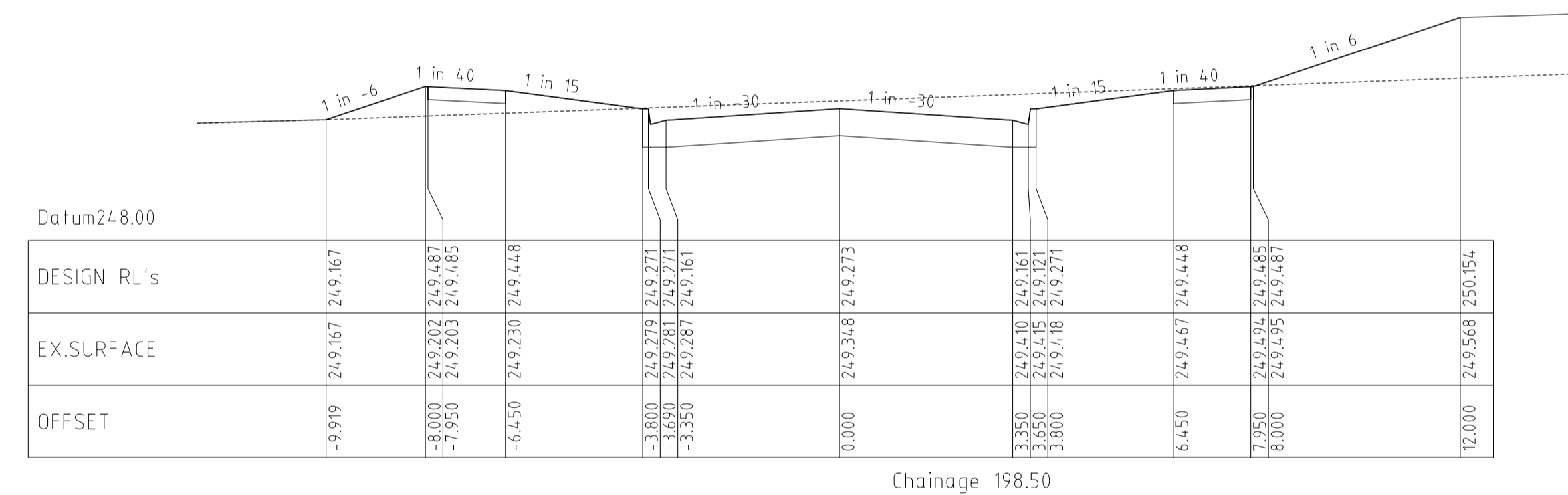
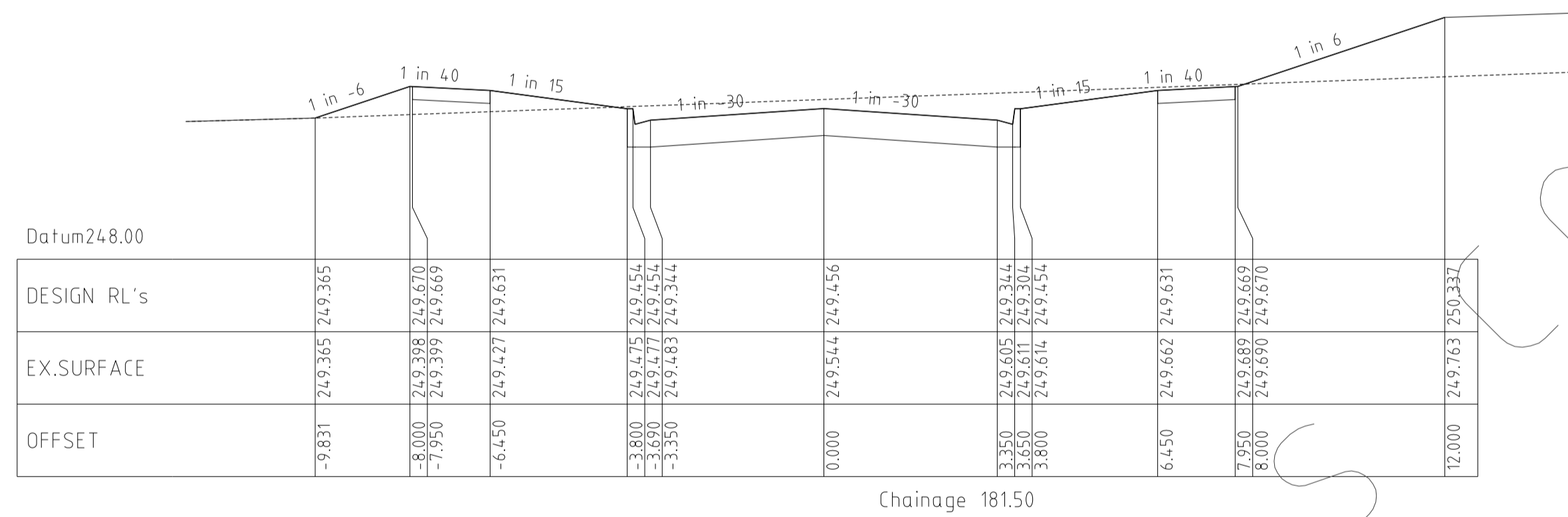
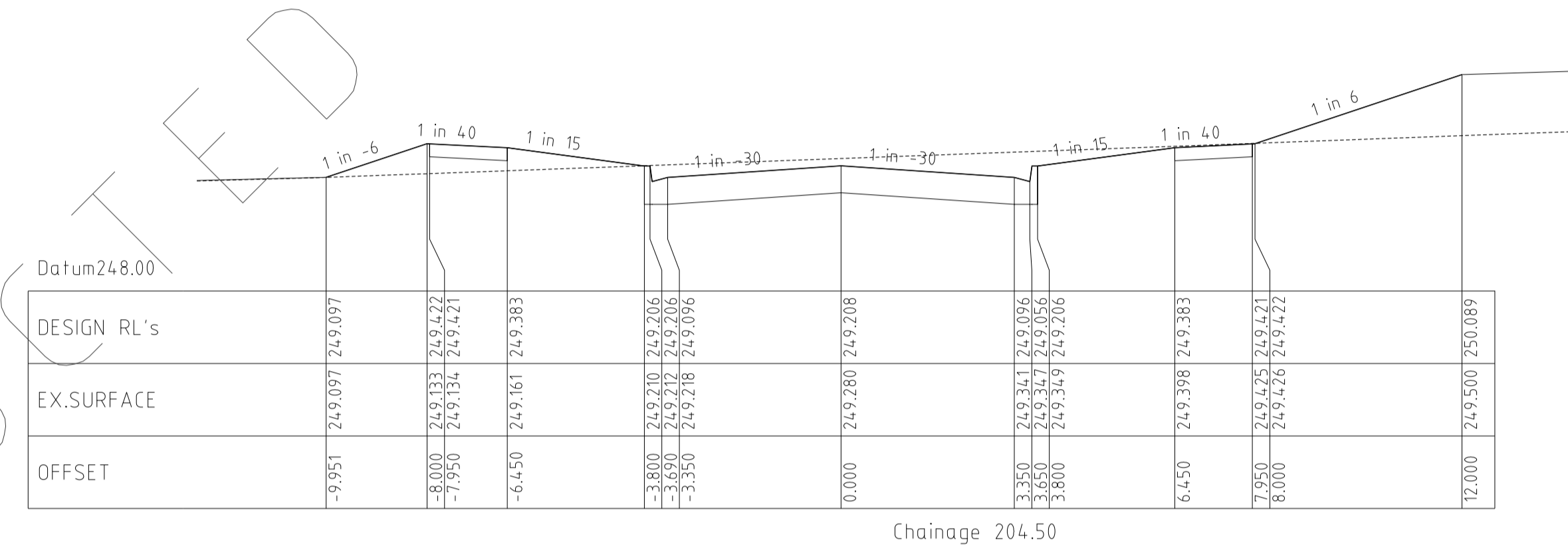
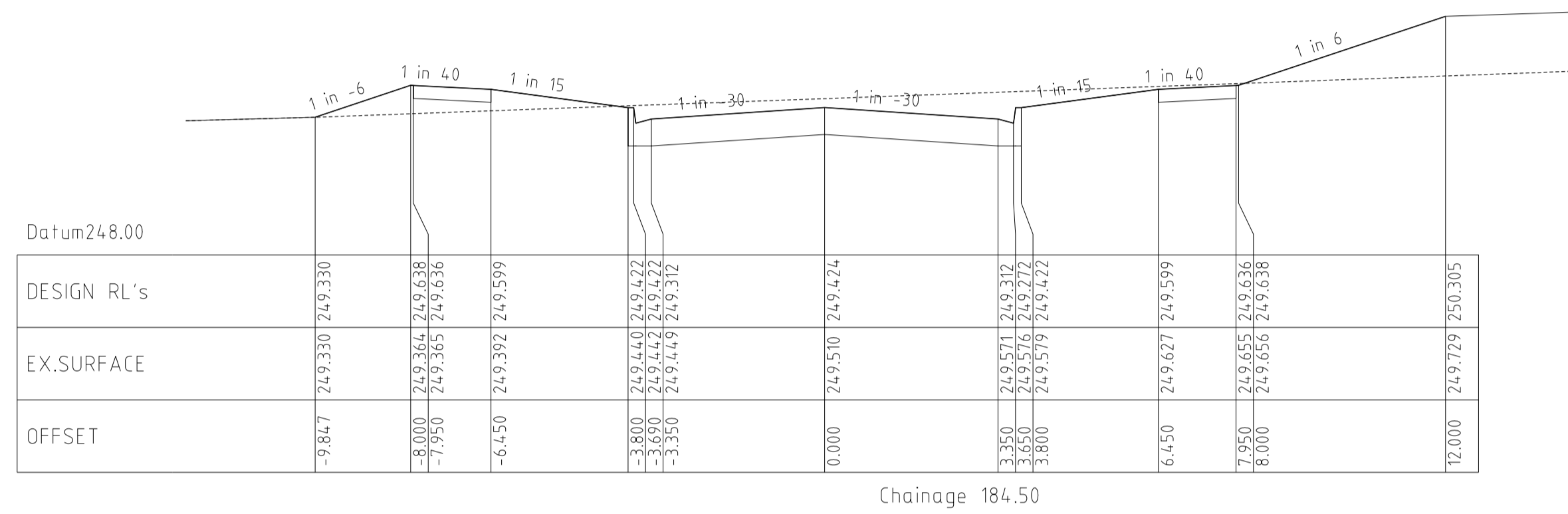
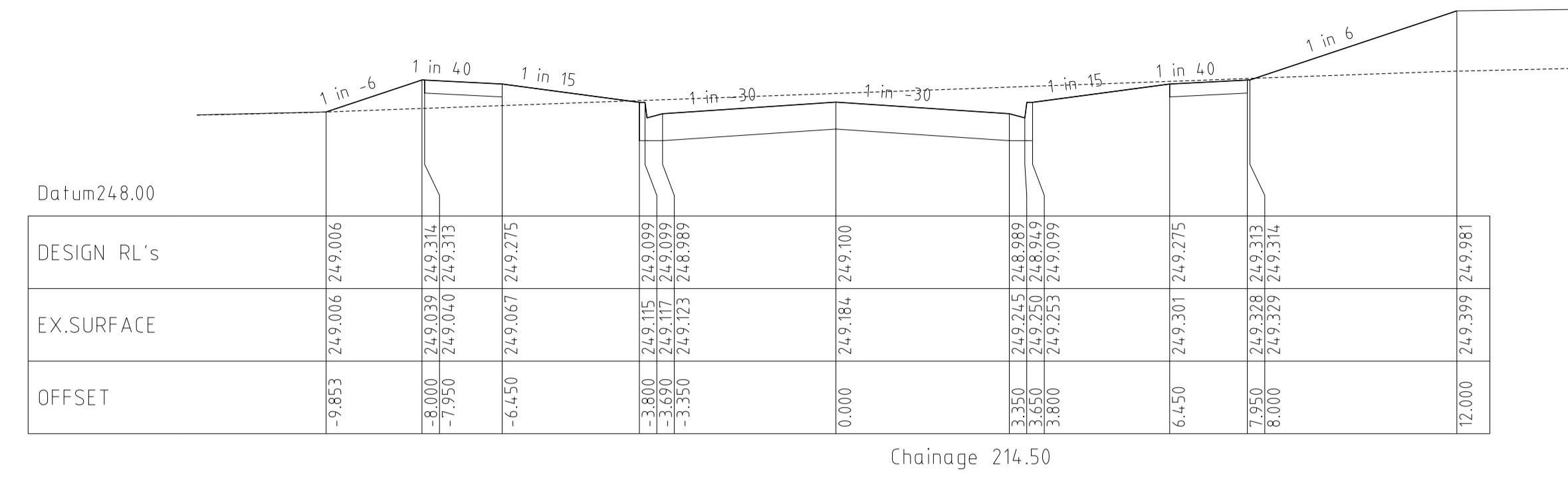
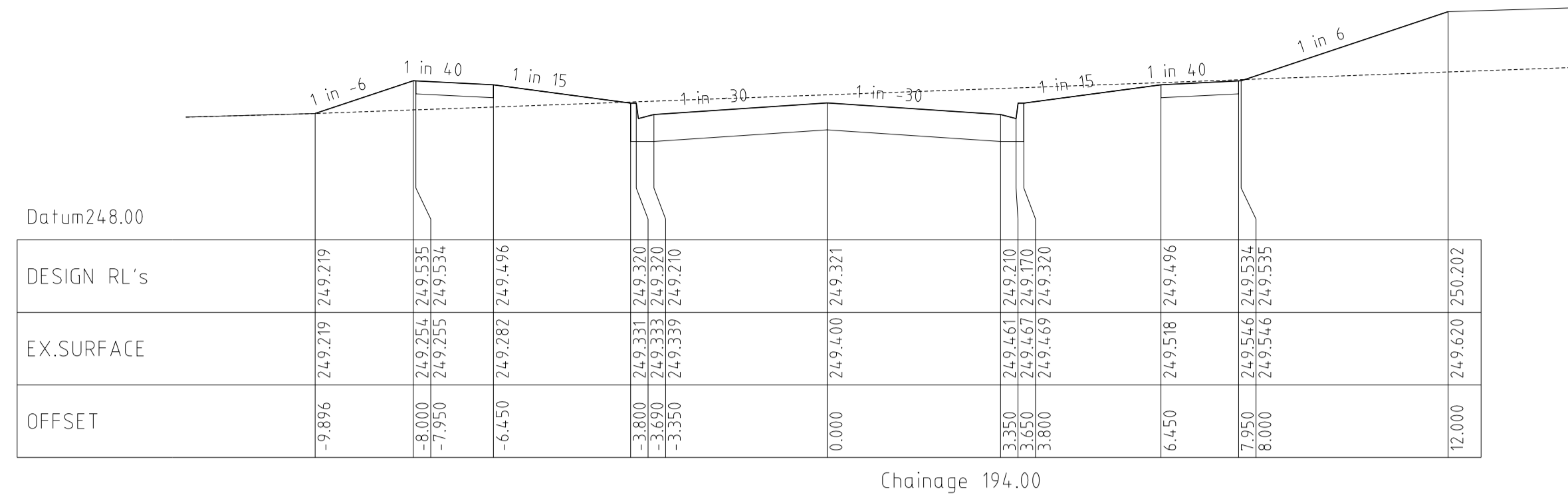
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DATE	DETAILS	AUTHORISED	DATE PRINTED: 7/05/2013
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10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	DATUM: AHD
7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.: 36182_2B
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN: Z.W.L DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED: Z.W.L DATE: APR 2012
FILENAME k:\36182\36182_2b\dgn\r09.dgn		AUTHORISED:	A.S.C DATE: APR 2012



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R09
CELESTE STREET CROSS SECTIONS		REVISION G
		SHEET 9 OF 17



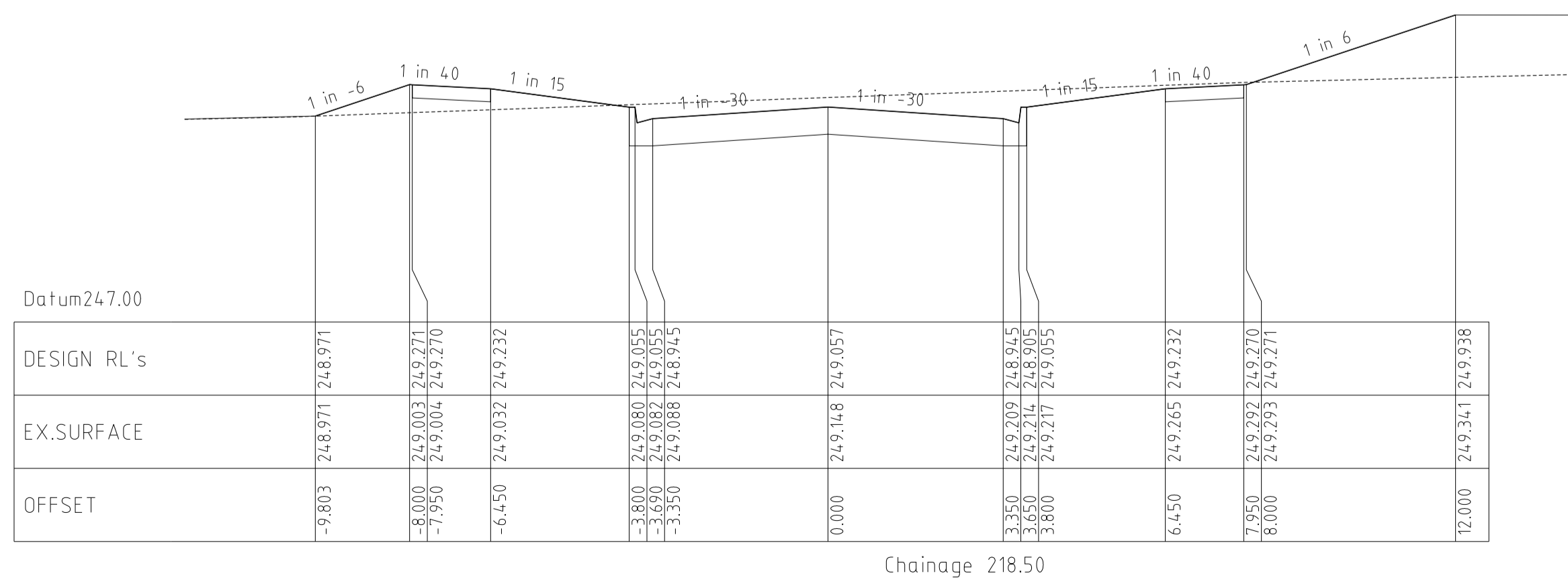
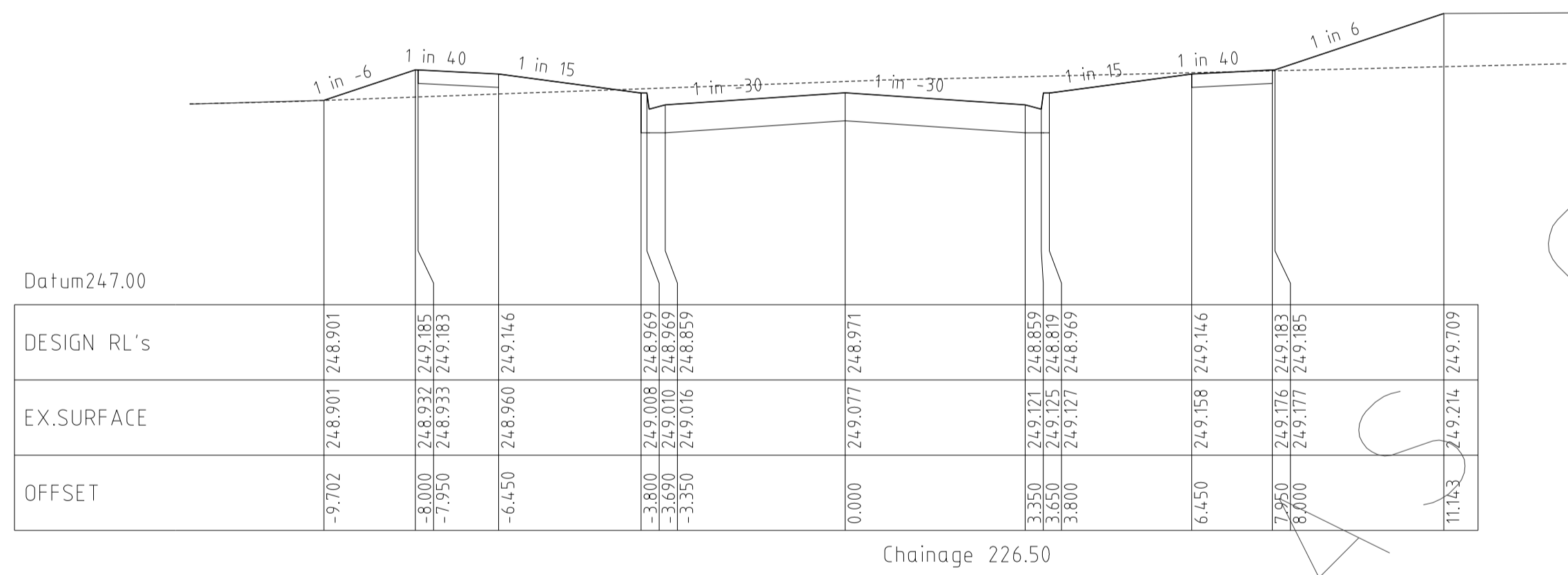
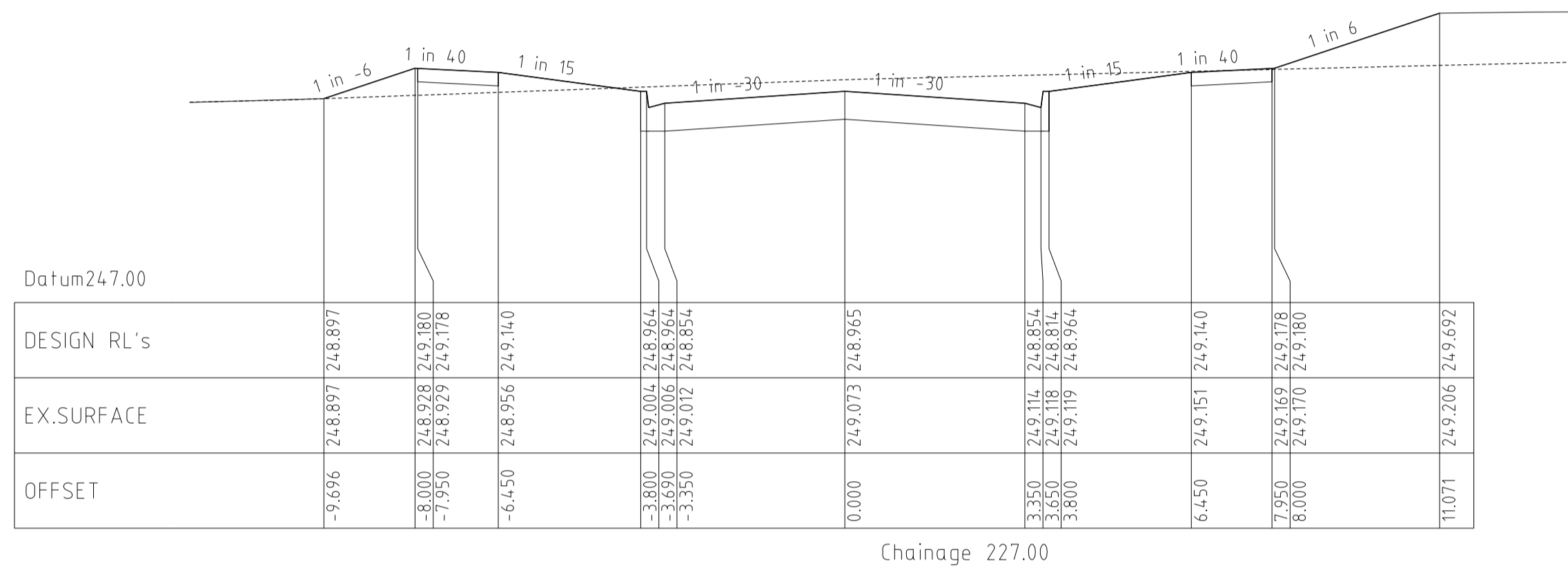
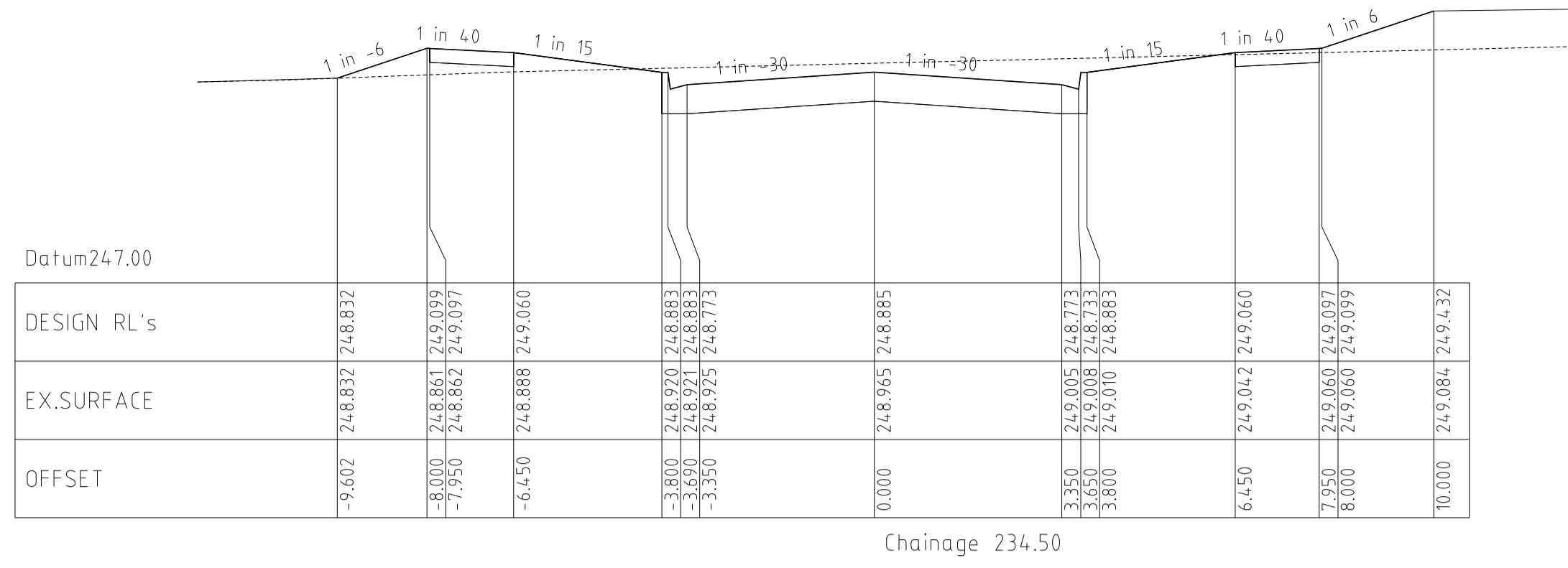
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DATE	DETAILS	AUTHORISED	DATE PRINTED:	7/05/2013	
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10/04/13	F	CROSSOVER AMENDMENT LOT 272	ZWL	DATUM:	AHD
7/03/13	E	CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.:	36182_2B
30/11/12	D	PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L DATE: APR 2012
29/11/12	C	DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L DATE: APR 2012
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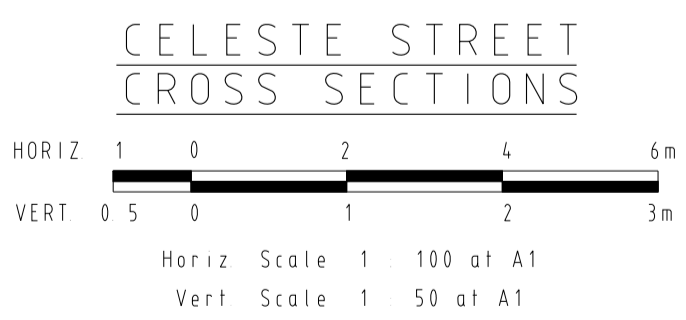
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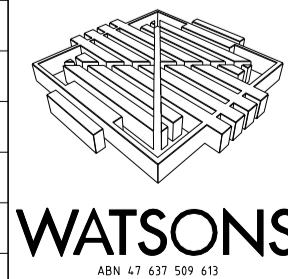
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R10
CELESTE STREET CROSS SECTIONS		REVISION G
		SHEET 10 OF 17



CONSTRUCTED



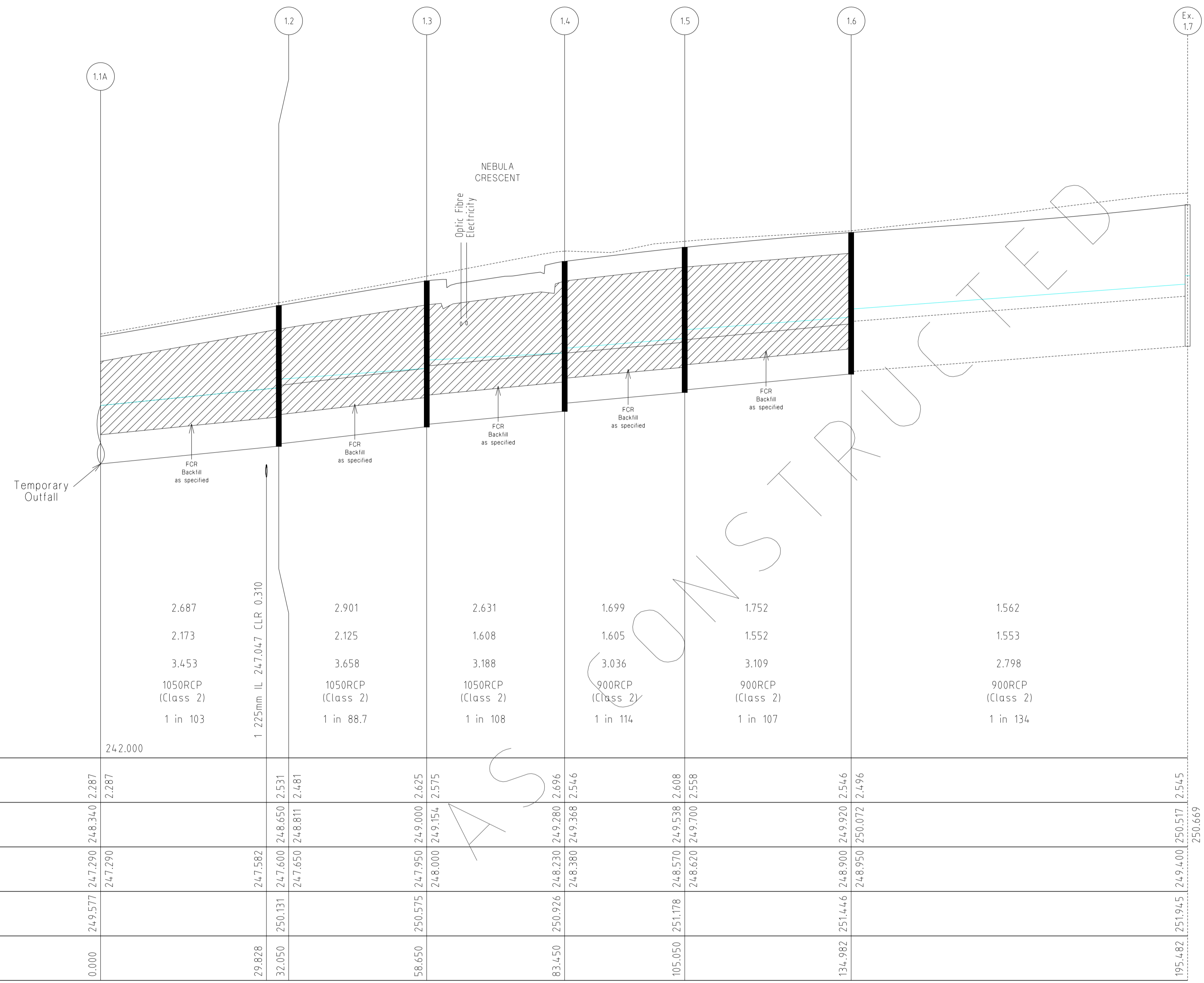
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DATE	DETAILS	AUTHORISED	DATE PRINTED:
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10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	LEVEL DATA: K:\36182\36182\LTPO
7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	DATUM: AHD
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	PROJECT No.: 36182_2B
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DRAWN: Z.W.L. DATE: APR 2012
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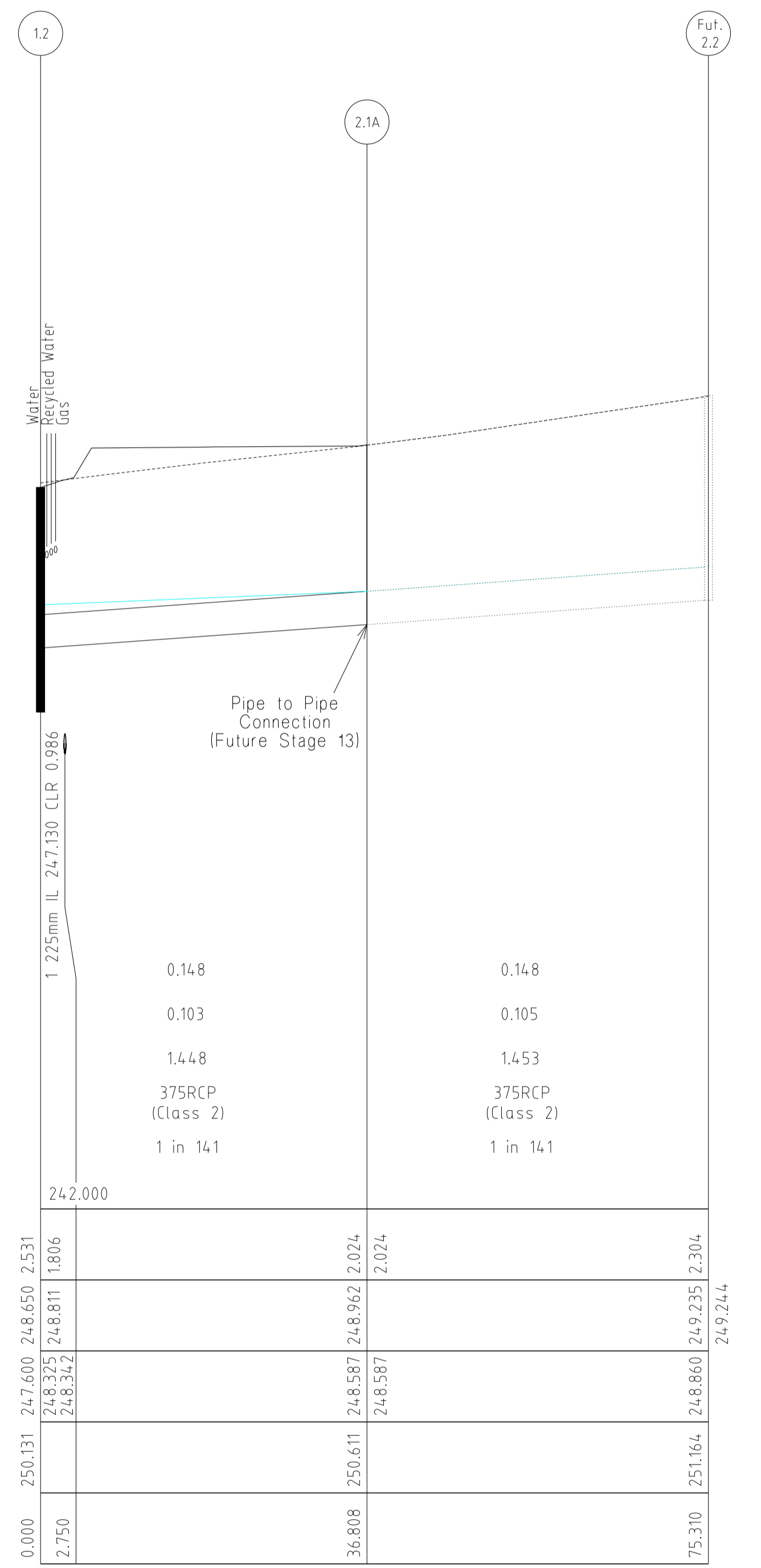
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R 11
CELESTE STREET CROSS SECTIONS		REVISION G
		SHEET 11 OF 17



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

	2.687	2.901	2.631	1.699	1.752	1.562
	2.173	2.125	1.608	1.605	1.552	1.553
	3.453	3.658	3.188	3.036	3.109	2.798
	1050RCP (Class 2)	1050RCP (Class 2)	1050RCP (Class 2)	900RCP (Class 2)	900RCP (Class 2)	900RCP (Class 2)
	1 in 103	1 in 88.7	1 in 108	1 in 114	1 in 107	1 in 134
Datum R.L.	24.2.000					

DEPTH TO INVERT	24.7.290 24.7.290	24.7.582 24.7.600 24.7.650	24.9.000 24.9.000 24.9.154	24.9.280 24.9.280 24.9.368	24.9.538 24.9.538 24.9.700	25.0.517 25.0.517 25.0.669
H.G.L. LEVELS	24.8.340 24.8.340	24.8.650 24.8.650 24.8.811	24.9.000 24.9.000 24.9.154	24.9.280 24.9.280 24.9.368	24.9.538 24.9.538 24.9.700	25.0.517 25.0.517 25.0.669
INVERT LEVELS	24.7.290 24.7.290	24.7.582 24.7.600 24.7.650	24.9.000 24.9.000 24.9.154	24.9.280 24.9.280 24.9.368	24.9.538 24.9.538 24.9.700	25.0.517 25.0.517 25.0.669
FINISHED SURFACE LEVELS	24.9.517 24.9.517	25.0.131 25.0.131	25.0.575 25.0.575	25.0.926 25.0.926	25.1.178 25.1.178	25.1.945 25.1.945
CHAINAGE	0.000	29.828 32.050	58.650	83.450	105.050	134.982

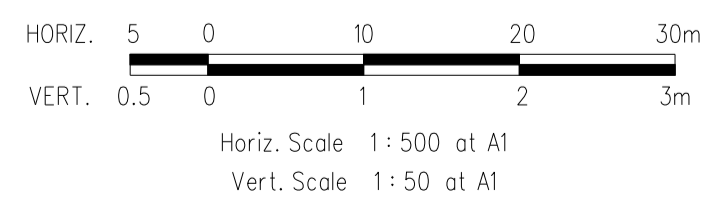


Water Merged Water
 Pipe to Pipe Connection (Future Stage 13)

DEPTH TO INVERT	24.7.600 24.8.336 24.8.342	24.8.962 24.8.962	24.9.235 24.9.235
H.G.L. LEVELS	24.8.650 24.8.811 24.8.342	24.8.962 24.8.962	24.9.235 24.9.235
INVERT LEVELS	24.7.600 24.8.336 24.8.342	24.8.962 24.8.962	24.9.235 24.9.235
FINISHED SURFACE LEVELS	25.0.131 25.0.131	25.0.611	25.1.164
CHAINAGE	0.000 2.750	36.808	75.310

DRAINAGE LONGITUDINAL SECTIONS

NOTE:
 LOCATION OF GAS, WATER,
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 SERVICES INDICATIVE ONLY



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	7/05/2013
7/05/13	G AS CONSTRUCTED	ZWL	LEVEL DATA:	K:\36182\36182\LT00
10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	DATUM:	AHD
7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.:	36182_2B
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L. DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L. DATE: APR 2012
FILENAME k:\36182\36182_2b\dgn\r12.dgn			AUTHORISED:	A.S.C. DATE: APR 2012



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R12
DRAINAGE LONGITUDINAL SECTIONS		REVISION G
		SHEET 12 OF 17

AS CONSTRUCTED

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

	13	3.1	3.2	Fut. 3.4
				3.3A
	1.225mm IL 247.5/40 CLR 0.581			
	1.227	1.081	0.915	0.908
	0.800	0.796	0.796	0.805
	2.959	2.673	2.333	2.320
	750RCP (Class 2)	750RCP (Class 2)	750RCP (Class 2)	750RCP (Class 2)
	1 in 82.3	1 in 106	1 in 148	1 in 150
Datum R.L.	242.000			
DEPTH TO INVERT	247.950 249.000 2.625	248.300 249.154 2.275	248.440 249.213 2.259	248.830 249.797 2.145
H.G.L. LEVELS	248.300 249.154 2.275	248.490 249.347 2.209	248.570 249.390 2.141	248.830 249.954 2.492
INVERT LEVELS	248.345		248.620 249.639 2.091	
FINISHED SURFACE LEVELS	250.575	250.699	250.711	251.162
CHAINAGE	-20.026 250.575	3.889	-8.500 250.699	-0.000 250.711
				31.100 250.975
				61.200 251.162

	14	4.1
	0.156	0.156
	0.012	0.012
	1.305	1.305
	300RCP (Class 2)	300RCP (Class 2)
	1 in 38.6	1 in 38.6
Datum R.L.	242.000	249.515
DEPTH TO INVERT	248.230 249.280 2.696	248.980 249.368 1.946
H.G.L. LEVELS	248.980 249.368 1.946	249.200 249.500 1.726
INVERT LEVELS	248.830	
FINISHED SURFACE LEVELS	250.926	250.926
CHAINAGE	0.000 250.926	8.500 250.926

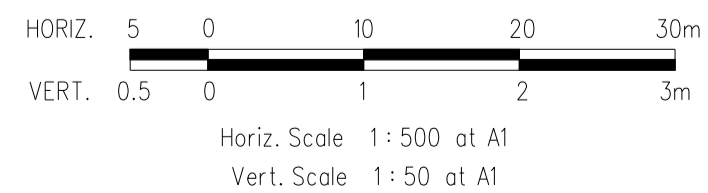
	15	5.1
	0.174	0.174
	0.106	0.106
	1.651	1.651
	375RCP (Class 2)	375RCP (Class 2)
	1 in 102	1 in 102
Datum R.L.	243.000	250.355
DEPTH TO INVERT	249.570 249.538 2.608	250.300 250.675 1.492
H.G.L. LEVELS	249.700 249.700 1.278	250.350 250.736 1.442
INVERT LEVELS	249.923	250.355
FINISHED SURFACE LEVELS	251.178	251.792
CHAINAGE	0.000 251.178	4.0750 251.792

	Fut. 5.2
	0.162
	0.110
	1.574
	375RCP (Class 2)
	1 in 117
Datum R.L.	251.355
DEPTH TO INVERT	250.980 251.355 1.531
H.G.L. LEVELS	250.980 251.355 1.531
INVERT LEVELS	250.980
FINISHED SURFACE LEVELS	252.511
CHAINAGE	114.751 252.511

	16	6.1
	0.159	0.159
	0.014	0.014
	1.390	1.390
	300RCP (Class 2)	300RCP (Class 2)
	1 in 37	1 in 37
Datum R.L.	243.000	250.100
DEPTH TO INVERT	248.900 249.920 2.546	249.550 250.072 1.896
H.G.L. LEVELS	248.900 249.920 2.546	249.550 250.072 1.896
INVERT LEVELS	248.830	249.780 250.080 1.666
FINISHED SURFACE LEVELS	251.446	251.446
CHAINAGE	0.000 251.446	8.499 251.446

DRAINAGE LONGITUDINAL SECTIONS

NOTE:
 LOCATION OF GAS, WATER,
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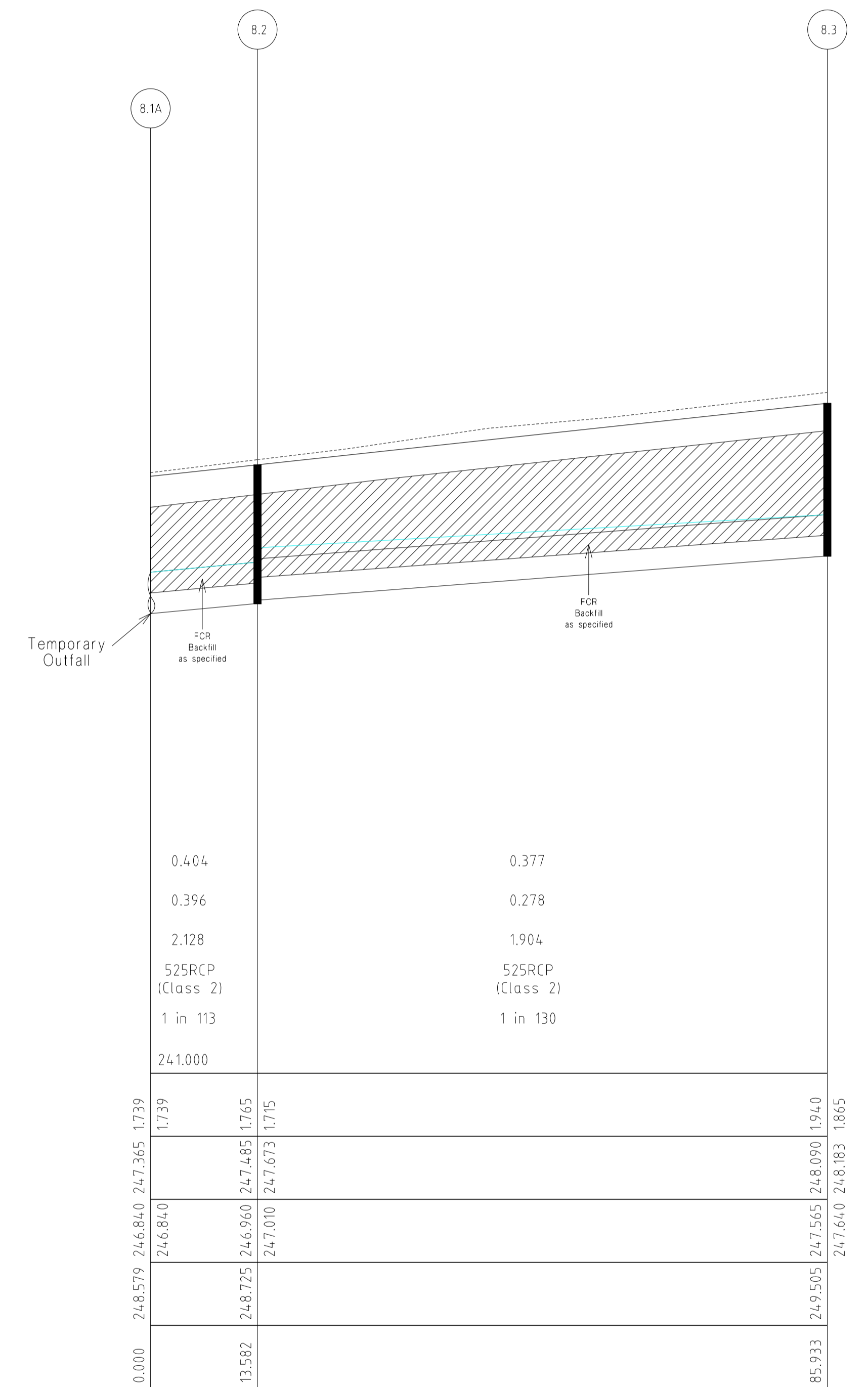
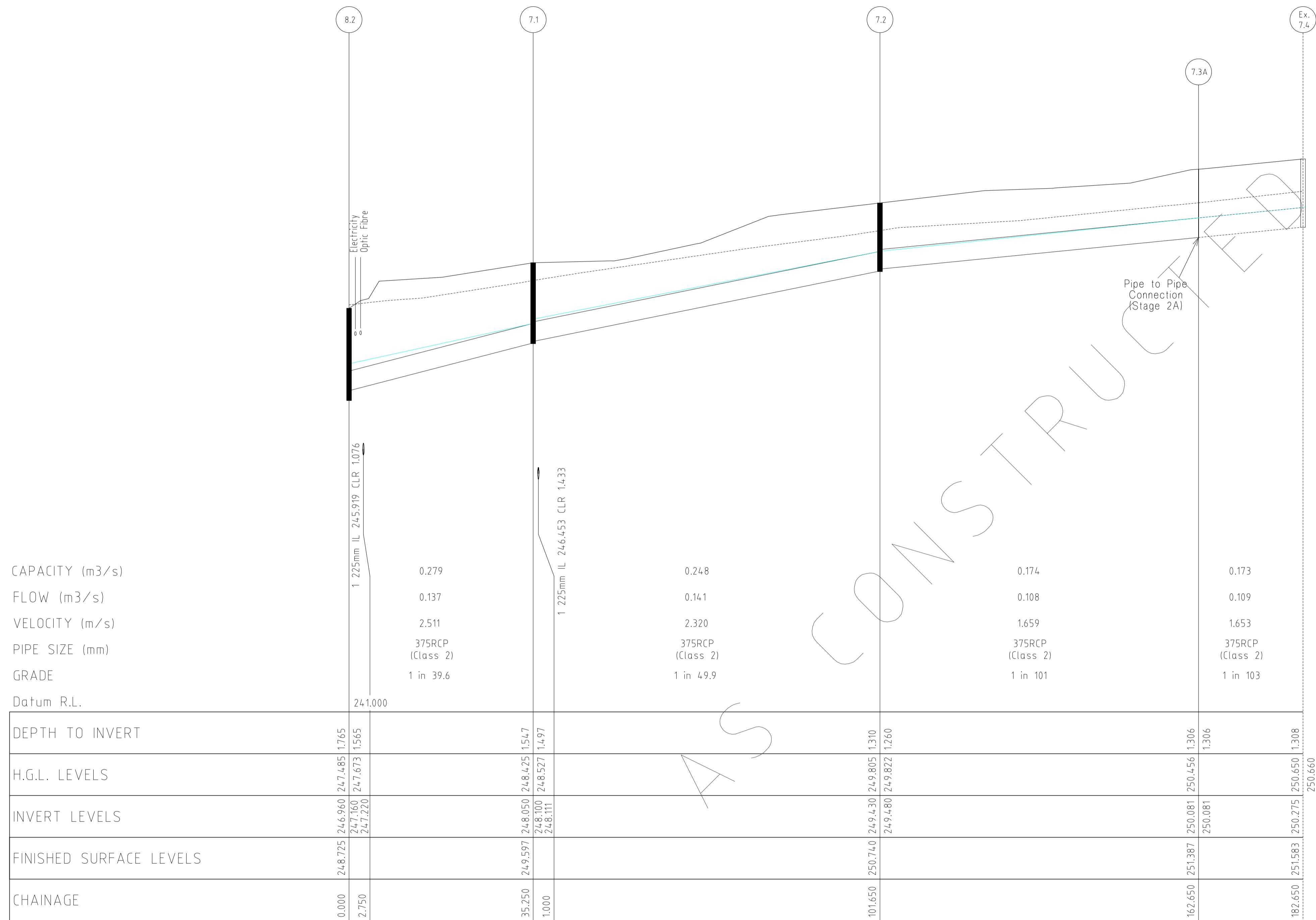
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DATE	DETAILS	AUTHORISED	DATE PRINTED:	7/05/2013
7/05/13	G AS CONSTRUCTED	ZWL	LEVEL DATA:	K:\36182\36182\LTPO
10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	DATUM:	AHD
7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.:	36182_2B
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L. DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L. DATE: APR 2012
FILENAME k:\36182\36182_2b\dgn\r13.dgn			AUTHORISED:	A.S.C. DATE: APR 2012

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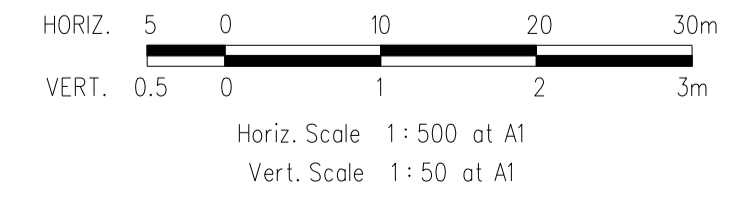
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R13
DRAINAGE LONGITUDINAL SECTIONS		REVISION G
		SHEET 13 OF 17



DEPTH TO INVERT	H.G.L. LEVELS	INVERT LEVELS	FINISHED SURFACE LEVELS	CHAINAGE
0.000	248.725	246.960	247.485	0.000
2.750	247.160	247.673	247.220	2.750
				35.250
				1.000
				101.650
				162.650
				182.650

DRAINAGE LONGITUDINAL SECTIONS

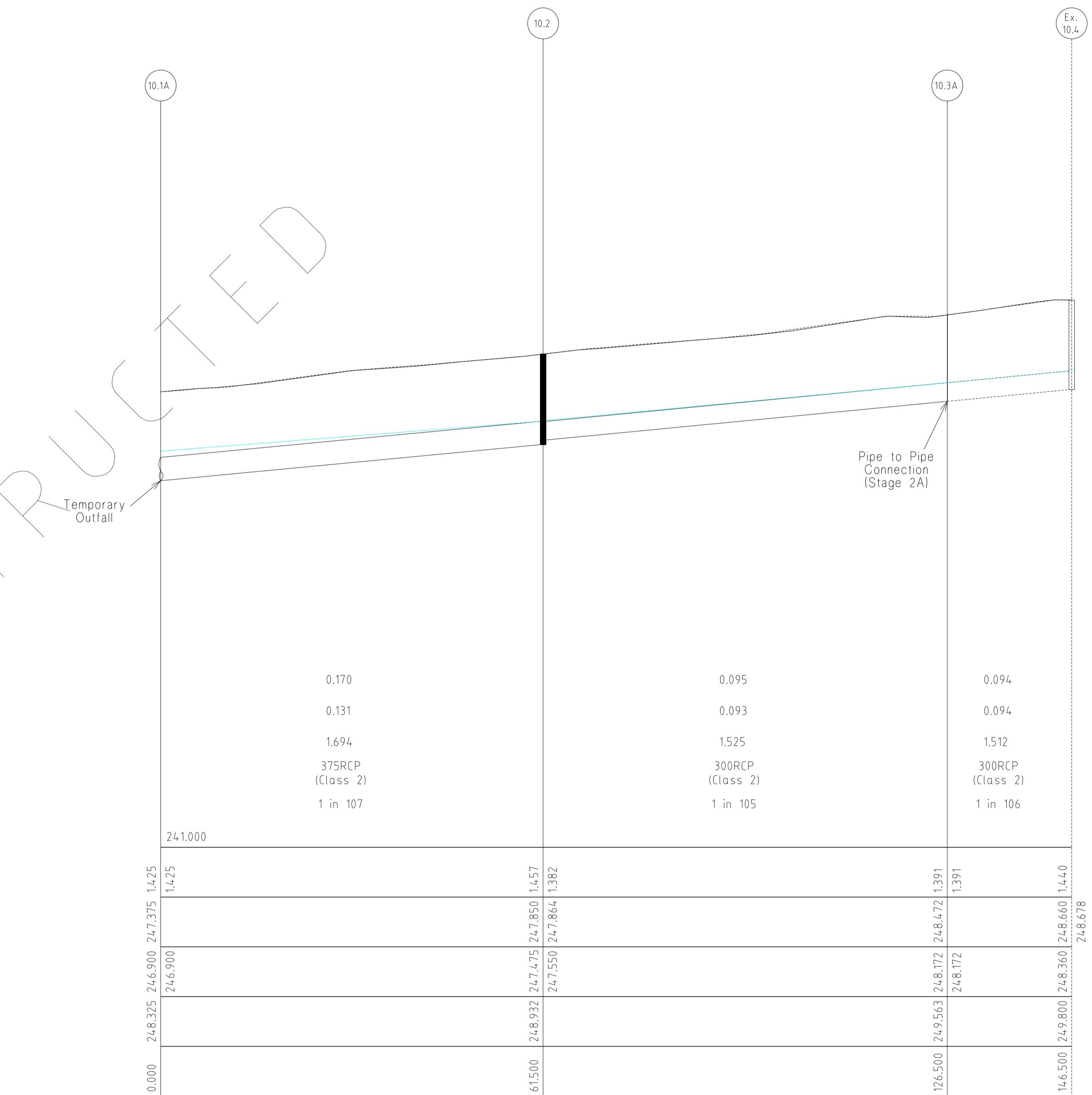
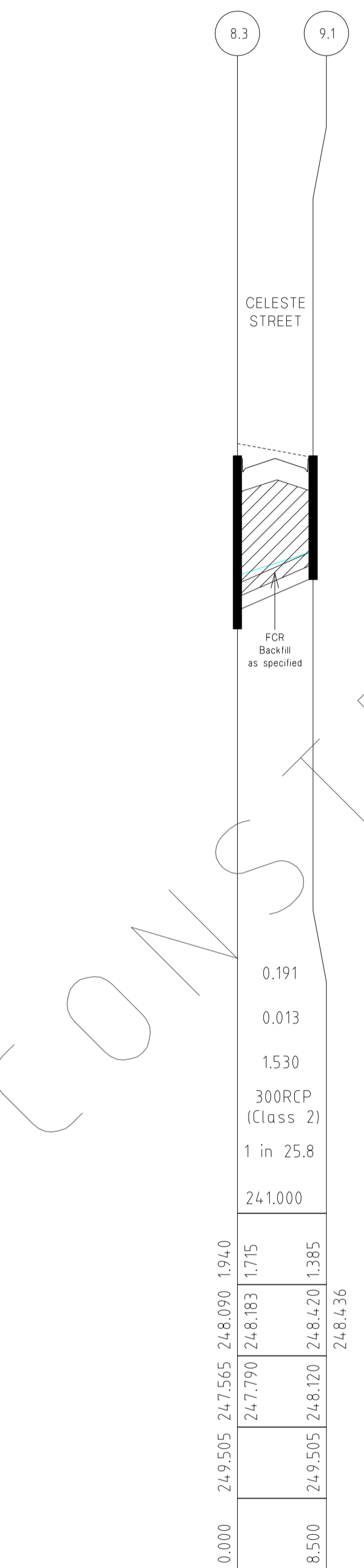
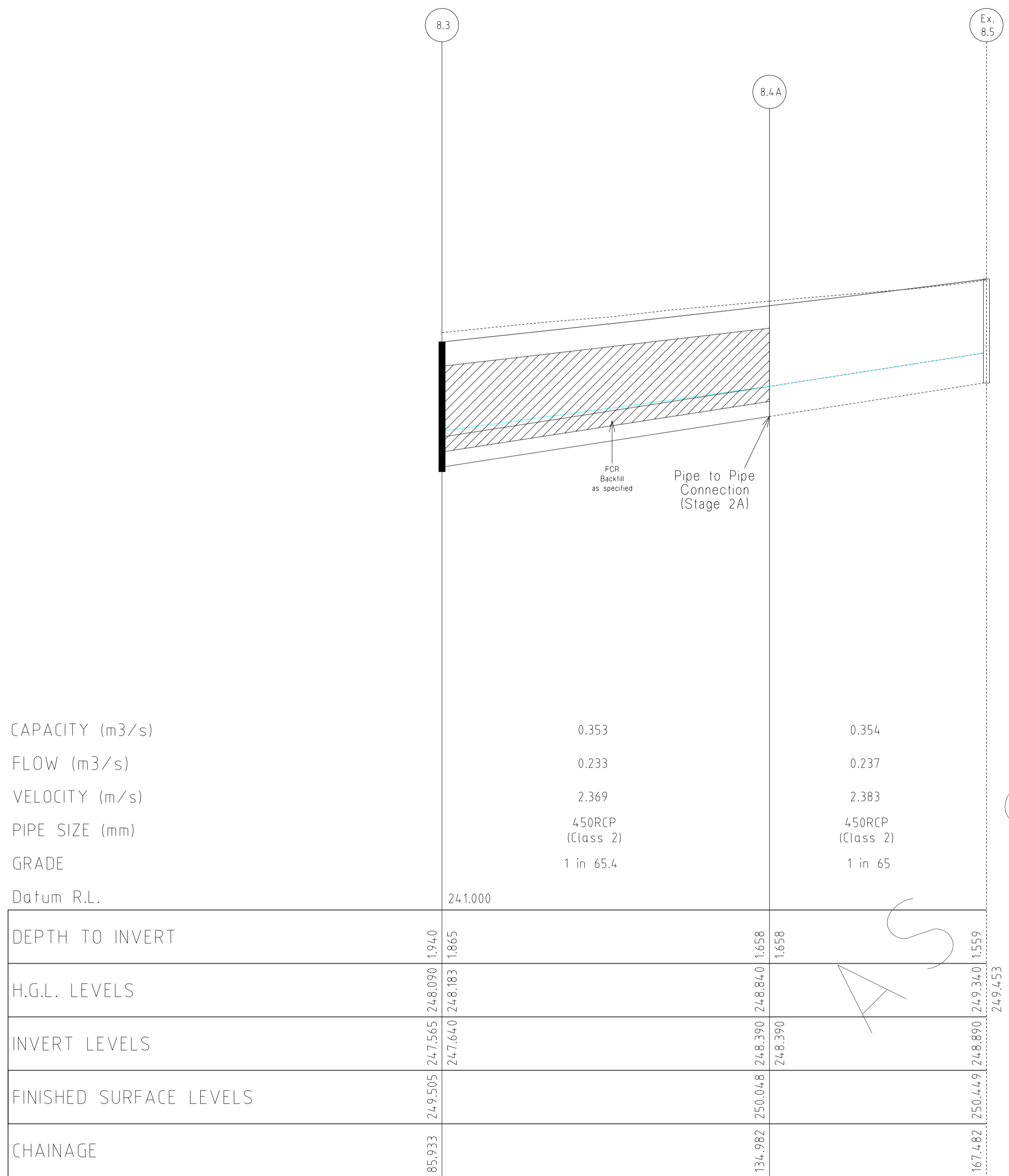
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DATE	DETAILS	AUTHORISED	DATE PRINTED:	7/05/2013
7/05/13	G AS CONSTRUCTED	ZWL	LEVEL DATA:	K:\36182\36182\1\TOPO
10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	DATUM:	AHD
7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.:	36182_2B
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L. DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L. DATE: APR 2012
FILENAME k:\36182\36182_2b\dgn\r14.dgn			AUTHORISED:	A.S.C. DATE: APR 2012

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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R 14
DRAINAGE LONGITUDINAL SECTIONS		REVISION G
		SHEET 14 OF 17



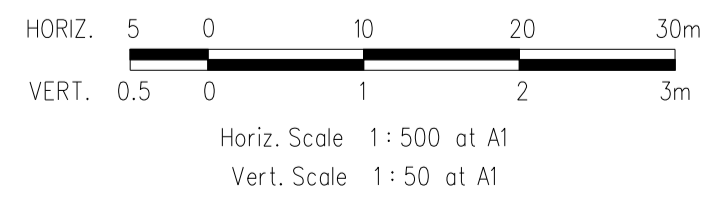
CONSTRAINTED

AS

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

DRAINAGE LONGITUDINAL SECTIONS

NOTE:
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7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.:	36182_2B	
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L.	DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L.	DATE: APR 2012
FILENAME k:\36182\36182_2b\dgn\r15.dgn				AUTHORISED:	A.S.C DATE: APR 2012



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R 15
DRAINAGE LONGITUDINAL SECTIONS		REVISION G
		SHEET 15 OF 17

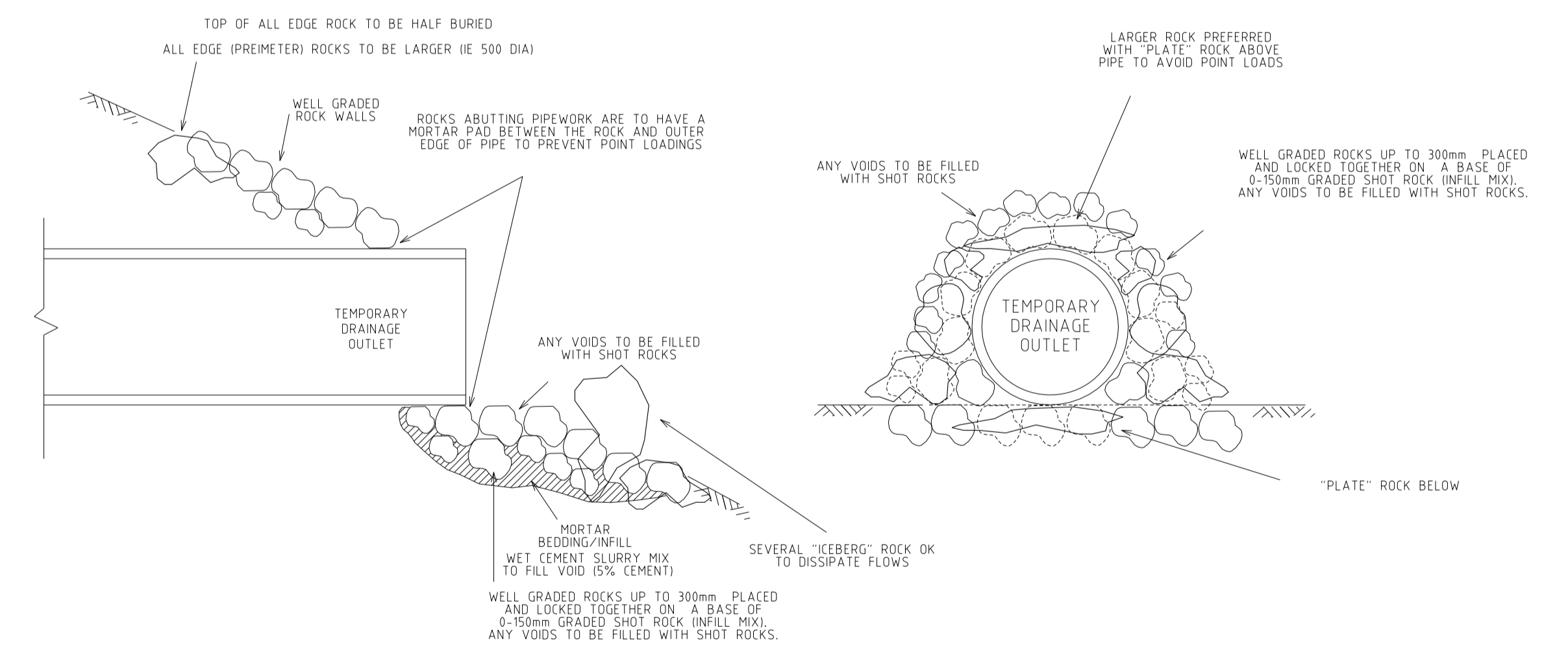
PIT SCHEDULE

PIT NO. & TYPE	INTERNAL DIMENSIONS	EASTING	NORTHING	INLET DIA.	INLET I.L.	OUTLET DIA.	OUTLET I.L.	COVER LEVEL	DEPTH TO INVERT	REMARKS
Ex. 1.7 SEP	900 x 1050	3910.218	10070.236			900	249.4	251.945	2.545	Existing Pit
1.6 SEP	900 x 1050	3902.178	10010.273	900	248.95	900	248.9	251.446	2.546	GAA012; SD275(CIRCULAR PIT LID)
				300	249.55					Line 6 Enters
1.5 JP	900 x 1050	3898.2	9980.606	900	248.62	900	248.57	251.178	2.608	GAA014; SD275(CIRCULAR PIT LID)
				375	249.9					Line 5 Enters
1.4 SEP	900 x 1200	3895.33	9959.198	900	248.38	1050	248.23	250.926	2.696	GAA012; SD275(CIRCULAR PIT LID)
				300	248.98					Line 4 Enters
1.3 SEP	900 x 1200	3892.034	9934.617	1050	248	1050	247.95	250.575	2.625	GAA012; SD275(CIRCULAR PIT LID)
				750	248.3					Line 3 Enters
1.2 JP	900 x 1200	3888.5	9908.253	1050	247.65	1050	247.6	250.131	2.531	GAA014; SD275(CIRCULAR PIT LID)
				375	248.325					Line 2 Enters
1.1A OUT	-	3884.241	9876.488	1050	247.29			249.577	2.287	Temporary Outfall
Fut. 2.2 JP	900 x 600	3813.857	9918.261			375	248.86	251.164	2.304	Future Pit
2.1A PP	-	3852.018	9913.145	375	248.587	375	248.587	250.611	2.024	Pipe to Pipe Connection
Fut. 3.4 SEP	900 x 900	3825.512	9960.335			750	249.03	251.162	2.132	Future Pit
3.3A PP	-	3855.345	9956.335	750	248.83	750	248.83	250.975	2.145	Pipe to Pipe Connection
3.2 SEP	900 x 900	3886.169	9952.203	750	248.62	750	248.57	250.711	2.141	GAA012; SD275(CIRCULAR PIT LID)
3.1 SEP	900 x 900	3885.039	9943.778	750	248.49	750	248.44	250.699	2.259	GAA012; SD275(CIRCULAR PIT LID)
4.1 SEP	900 x 600	3903.754	9958.068			300	249.2	250.926	1.726	GAA012; SD275(CIRCULAR PIT LID)
Fut. 5.2 JP	900 x 600	3867.645	10059.365			375	250.98	252.511	1.531	Future Pit
5.1 JP	900 x 600	3857.811	9986.021	375	250.35	375	250.3	251.792	1.492	GAA014; SD275(CIRCULAR PIT LID)
6.1 SEP	900 x 600	3910.602	10009.143			300	249.78	251.446	1.666	GAA012; SD275(CIRCULAR PIT LID)
Ex. 7.4 JP	900 x 600	3954.941	10029.431			375	250.275	251.583	1.308	Existing Pit
7.3A PP	-	3952.284	10009.609	375	250.081	375	250.081	251.387	1.306	Pipe to Pipe Connection
7.2 JP	900 x 600	3944.178	9949.15	375	249.48	375	249.43	250.74	1.31	GAA014; SD275(CIRCULAR PIT LID)
7.1 JP	900 x 600	3935.354	9883.338	375	248.1	375	248.05	249.597	1.547	GAA014; SD275(CIRCULAR PIT LID)

PIT SCHEDULE

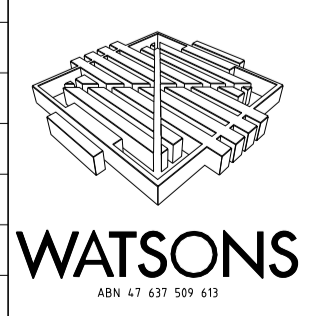
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Ex. 8.5 SEP	900 x 600	3990.743	10031.189			450	248.89	250.449	1.559	Existing Pit
8.4A PP	-	3986.424	9998.978	450	248.39	450	248.39	250.048	1.658	Pipe to Pipe Connection
8.3 SEP	900 x 750	3979.906	9950.363	450	247.64	525	247.565	249.505	1.94	GAA012; SD275(CIRCULAR PIT LID)
				300	247.79					Line 9 Enters
8.2 JP	900 x 750	3970.292	9878.654	525	247.01	525	246.96	248.725	1.765	GAA014; SD275(CIRCULAR PIT LID)
				375	247.16					Line 7 Enters
8.1A OUT	-	3968.487	9865.192	525	246.84			248.579	1.739	Temporary Outlet
9.1 SEP	900 x 600	3988.33	9949.233			300	248.12	249.505	1.385	GAA012; SD275(CIRCULAR PIT LID)
Ex. 10.4 JP	900 x 600	4032.286	10023.097			300	248.36	249.8	1.44	Existing Pit
10.3A PP	-	4029.628	10003.275	300	248.172	300	248.172	249.563	1.391	Pipe to Pipe Connection
10.2 JP	900 x 600	4020.99	9938.851	300	247.55	375	247.475	248.932	1.457	GAA014; SD275(CIRCULAR PIT LID)
10.1A OUT	-	4012.818	9877.897	375	246.9			248.325	1.425	Temporary Outfall

- NOTE:
1. xy setout to pit centre
 2. setout level to pit cover level



TYPICAL STORMWATER DRAINAGE TEMPORARY OUTLET
N.T.S.

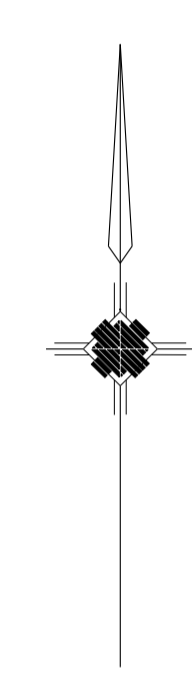
REVISIONS			SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	7/05/2013
7/05/13	G AS CONSTRUCTED	ZWL	LEVEL DATA:	K:\36182\36182\LT00
10/04/13	F CROSSOVER AMENDMENT LOT 272	ZWL	DATUM:	AHD
7/03/13	E CROSSOVER RELOCATION LOT 279	ZWL	PROJECT No.:	36182_2B
30/11/12	D PAVEMENT MAKEUP AMENDMENTS	ZWL	DRAWN:	Z.W.L. DATE: APR 2012
29/11/12	C DRAINAGE LINE 10 AMENDMENTS	ZWL	DESIGNED:	Z.W.L. DATE: APR 2012
FILENAME k:\36182\36182_2B\DGN\R16.dgn			AUTHORISED:	A.S.C. DATE: APR 2012



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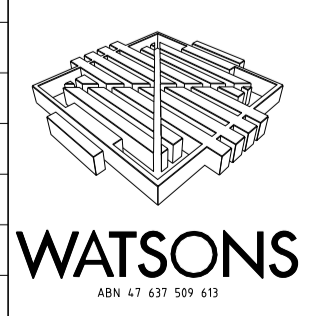
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R16
DRAINAGE PIT SCHEDULE & TEMPORARY OUTFALL / ROCK BEACHING DETAILS		REVISION G
		SHEET 16 OF 17



LINEMARKING PLAN
 Scale 1:500 at A1

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

REVISIONS			SCALE:	AS SHOWN
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FILENAME k \36182\36182 2b\dgn\17 dgn			AUTHORISED:	A.S.C. DATE: APR 2012



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 2B MICKLEHAM ROAD AND DRAINAGE PLANS		36182/2B R17
LINEMARKING & SIGNAGE PLAN		REVISION G
		SHEET 17 OF 17