

SHEET INDEX

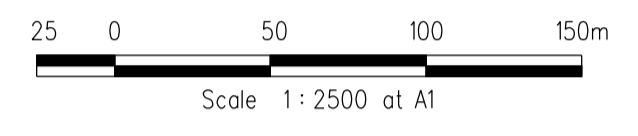
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GENERAL NOTES

- 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



LOCALITY PLAN



VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED: 15/10/2014	MORNINGTON 5 Main Street, Phone:031 5975 4644 Fax:031 5975 3916	 • TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS • Project Managers • Urban Designers • Structural Engineers		36182/8 R01
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	PROJECT No.: 36182/8	MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone:031 9697 8000 Fax:031 9697 8099			
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DRAWN: C.M.B. DATE: MAY 2014	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		SHEET 1 OF 24	
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DESIGNED: Z.W.L. DATE: MAY 2014	LOCALITY PLAN, SHEET INDEX, & GENERAL NOTES			
FILENAME: k:\36182\36182...0\dgn\01.dgn						AUTHORISED: A.S.C. DATE: MAY 2014	WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 599 613			

HUME CITY COUNCIL NOTES

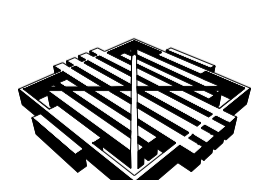
- 1 ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- 2 COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT 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

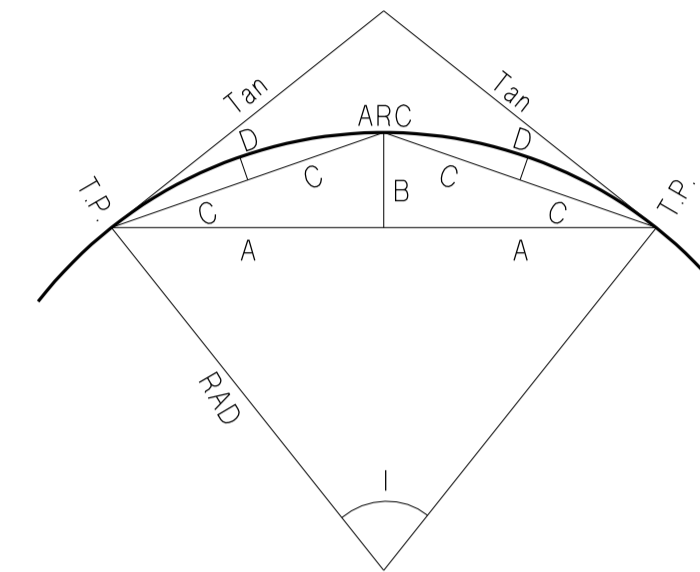
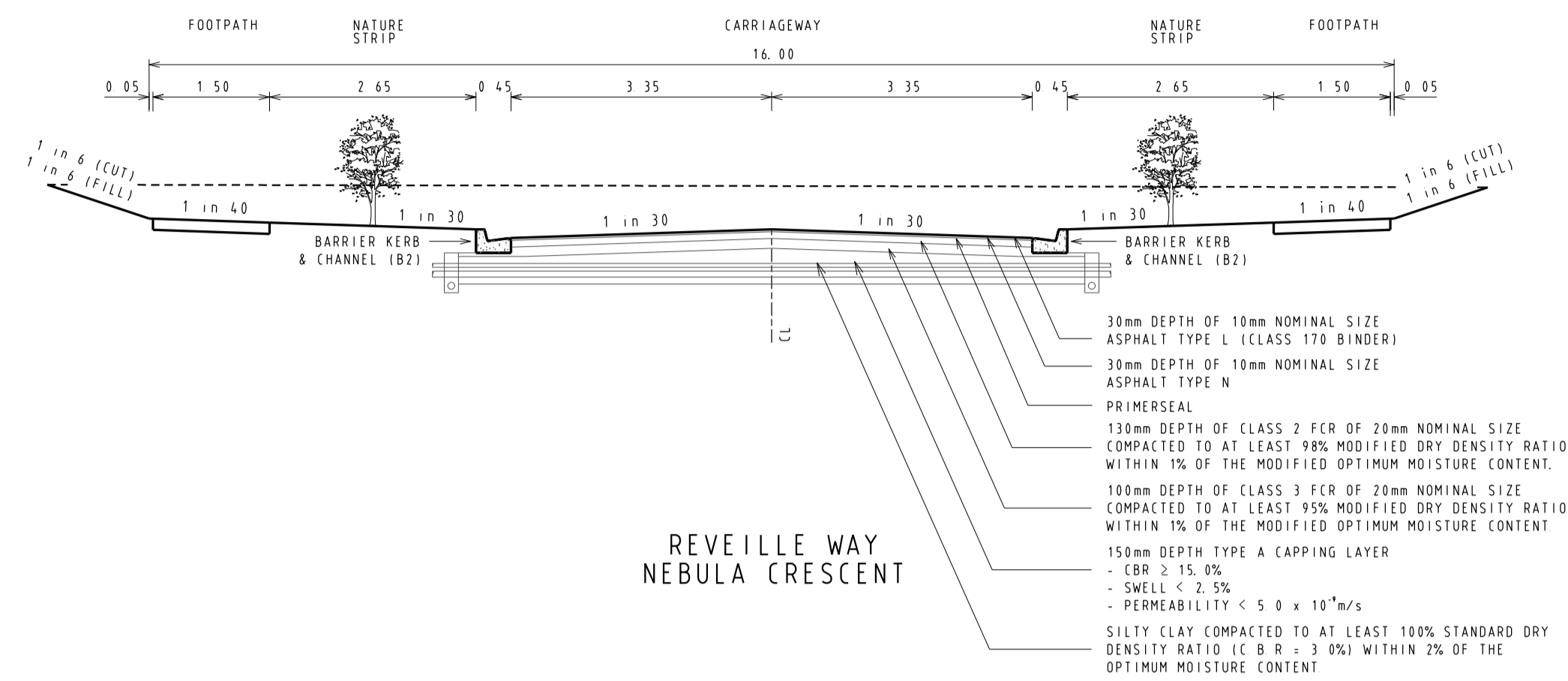
- 23 ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A S 1289 5 2 1-2003
- 24 ALL STORMWATER DRAINS ARE TO BE CLASS 2 R C OR RIGID F R C PIPES WITH ADOL 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 3 FCR COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A S 1289 5 2 1-2003. ALL DRAINS, SEWERS, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT CONDUITS) ARE TO BE BACKFILLED WITH 20mm CLASS 2 FCR COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A S 1289 5 2 1-2003
- 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 0.5M UNLESS SHOWN OTHERWISE
- 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 50MM DROP TO BE SHAPED TO ACCOMODATE DROP THROUGH PITS. NO ALLOWANCE FOR TOLERANCE HAS BEEN MADE WITH THE ILS 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

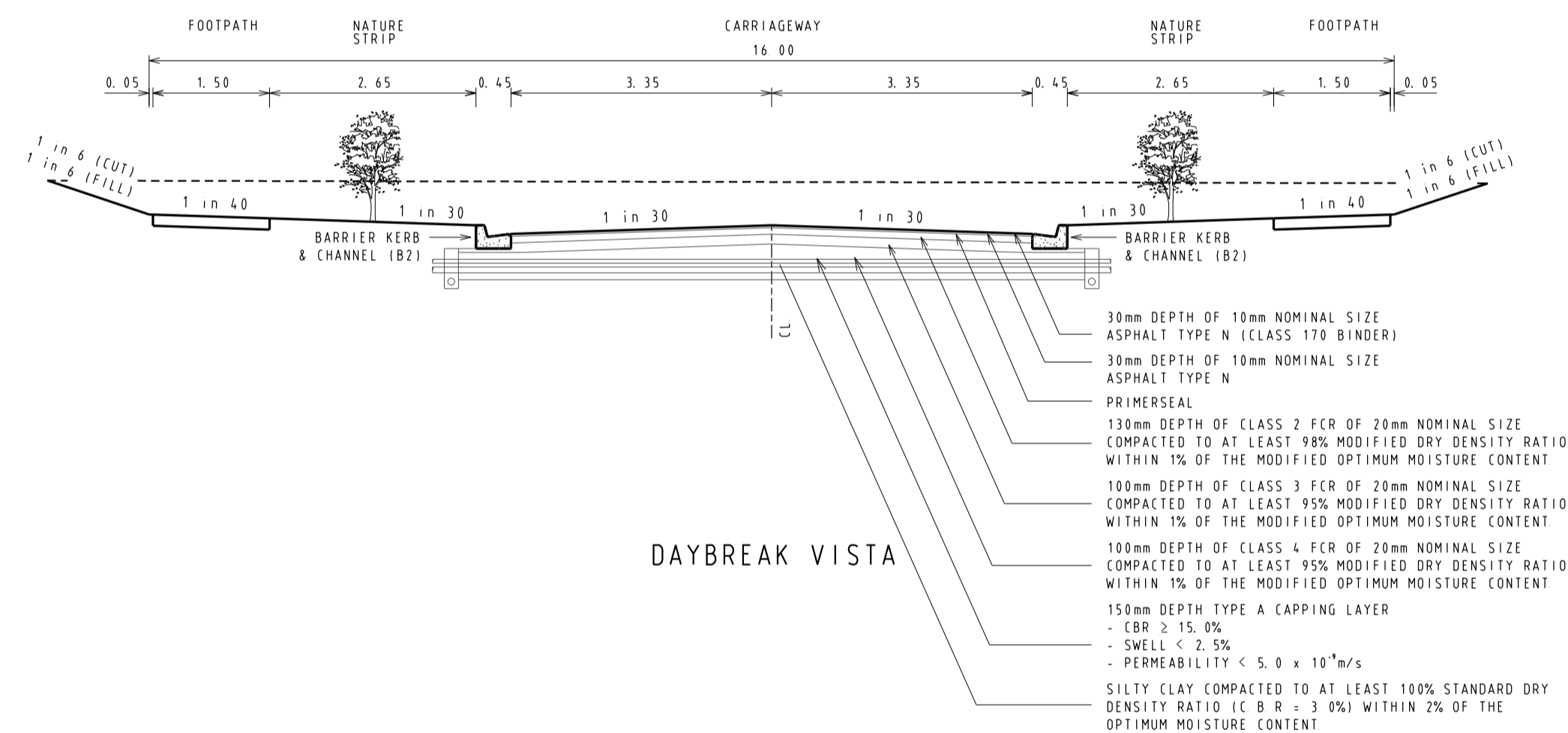
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VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		
HUME CITY COUNCIL & SITE SPECIFIC NOTES		
36182/8 R02		
REVISION: (
SHEET 2 OF 24		



CURVE SETOUT TABLE

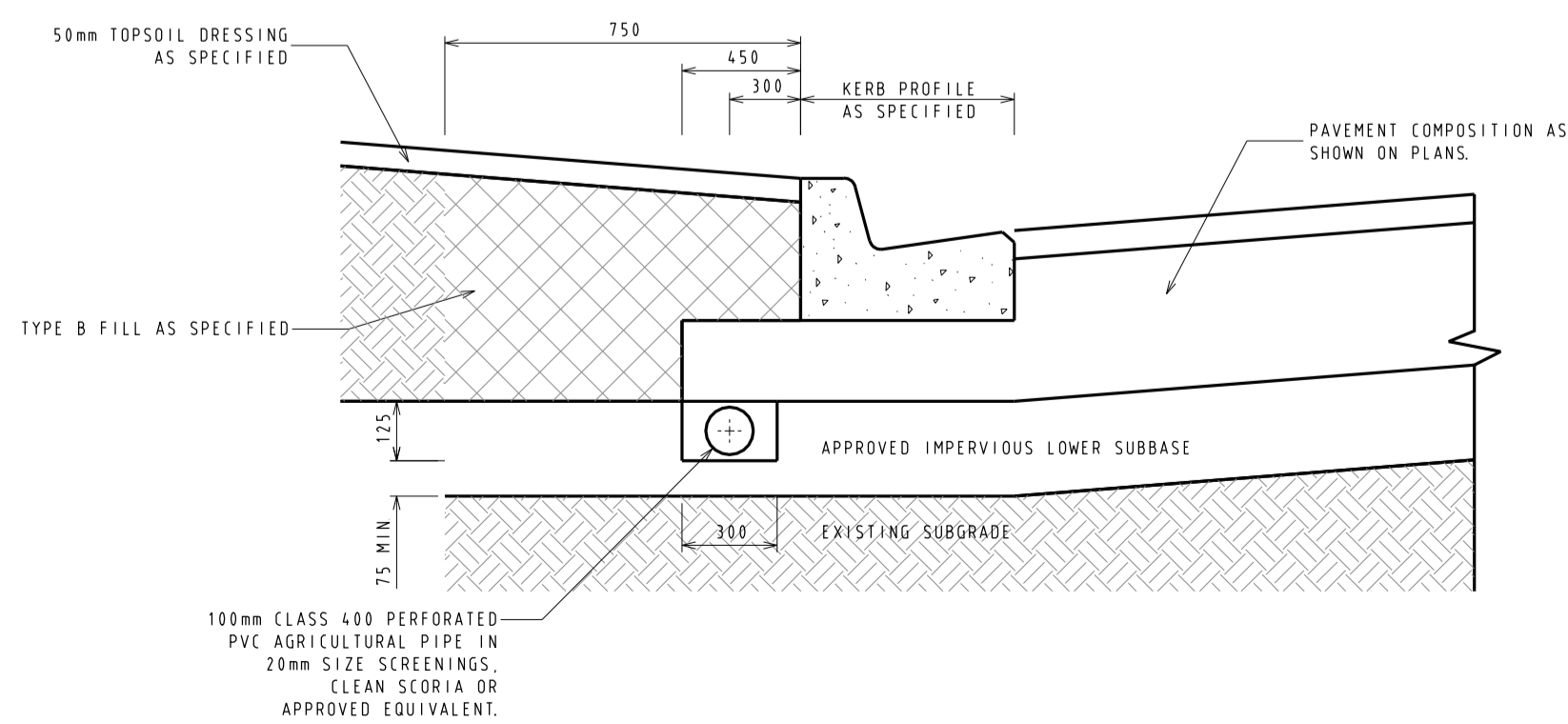
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3	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
4	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61



SERVICE OFFSETS

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

STREET NAME	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	SEWER
DAYBREAK VISTA	2.05 N	2.55 N	3.05 N	2.60 S	1.775 S	-
REVELLIE WAY	2.05 E	2.55 E	3.05 E	2.60 W	1.775 W	1.00 W
NEBULA CRESCENT	2.05 N	2.55 N	3.05 N	2.60 S	1.775 S	-



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C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	LEVEL DATA:	L10po.dgn
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DATUM:	AHD
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	PROJECT No.:	36182/8
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AUTHORISED: A.S.C. DATE: MAY 2014						FILENAME: k:\36182\36182...0.dgn\03.dgn	

MORNINGTON 5 Main Street, Phone:031 5975 4644 Fax:031 5975 3916 MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone:031 9697 8000 Fax:031 9697 8099	<ul style="list-style-type: none"> TOWN PLANNERS CIVIL ENGINEERS SURVEYORS Project Managers Urban Designers Structural Engineers 	<p>WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 67 637 589 613</p>	HUME CITY COUNCIL VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM	PLAN NUMBER 36182/8 R03
TYPICAL PAVEMENT CROSS SECTIONS, CURVE SETOUT TABLE & SERVICE OFFSET TABLE			REVISION C	SHEET 3 OF 24

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

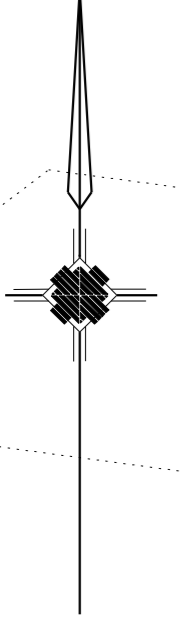


CONCRETE EDGE STRIP AND "NO ROAD" SIGN
 TEMPORARY AG AT END STRIPS
 TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
 PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

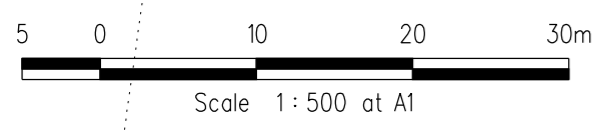
HOUSE DRAINS FOR LOTS 810 - 823 TO BE BUILT OFF EXISTING DRAIN

HOUSE DRAINS FOR LOTS 810 - 823 TO BE BUILT OFF EXISTING DRAIN

HOUSE DRAINS FOR LOTS 810 - 823 TO BE BUILT OFF EXISTING DRAIN



DETAIL PLAN



VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	AS SHOWN	VILLAWOOD PROPERTIES P/L		36182/8
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	15/10/2014		TRILLIUM - STAGE 8		R04
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC			535 MOUNT RIDLEY ROAD		REVISION C
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC			MICKLEHAM		SHEET 4 OF 24

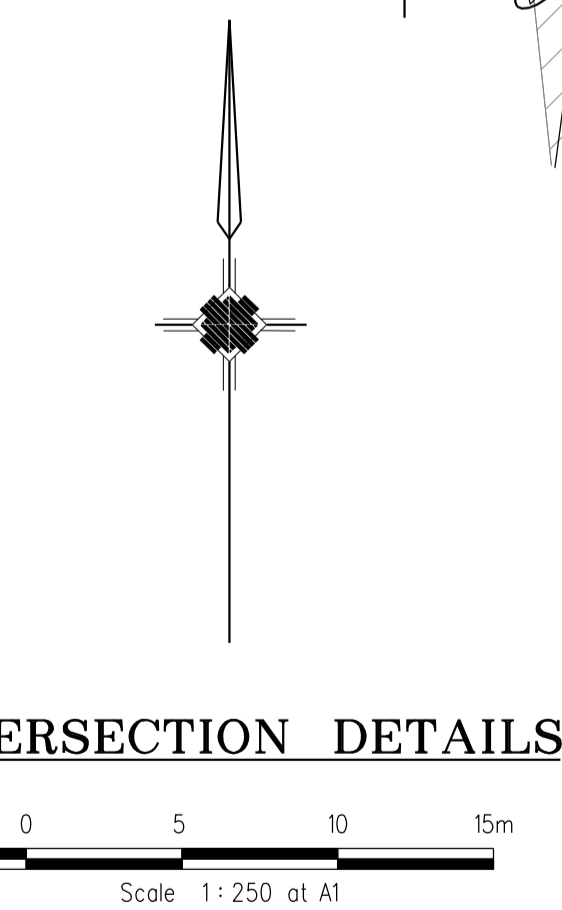
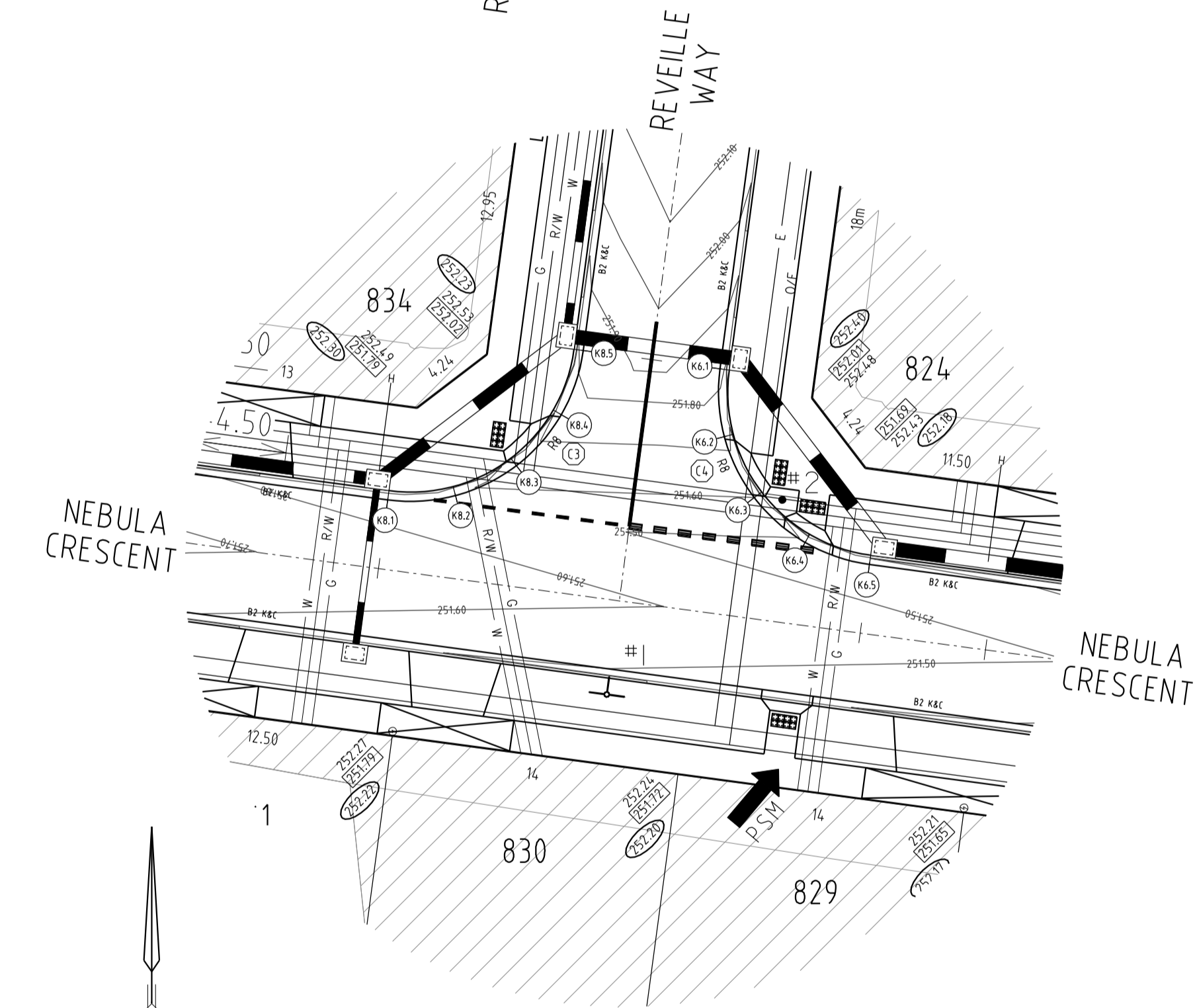
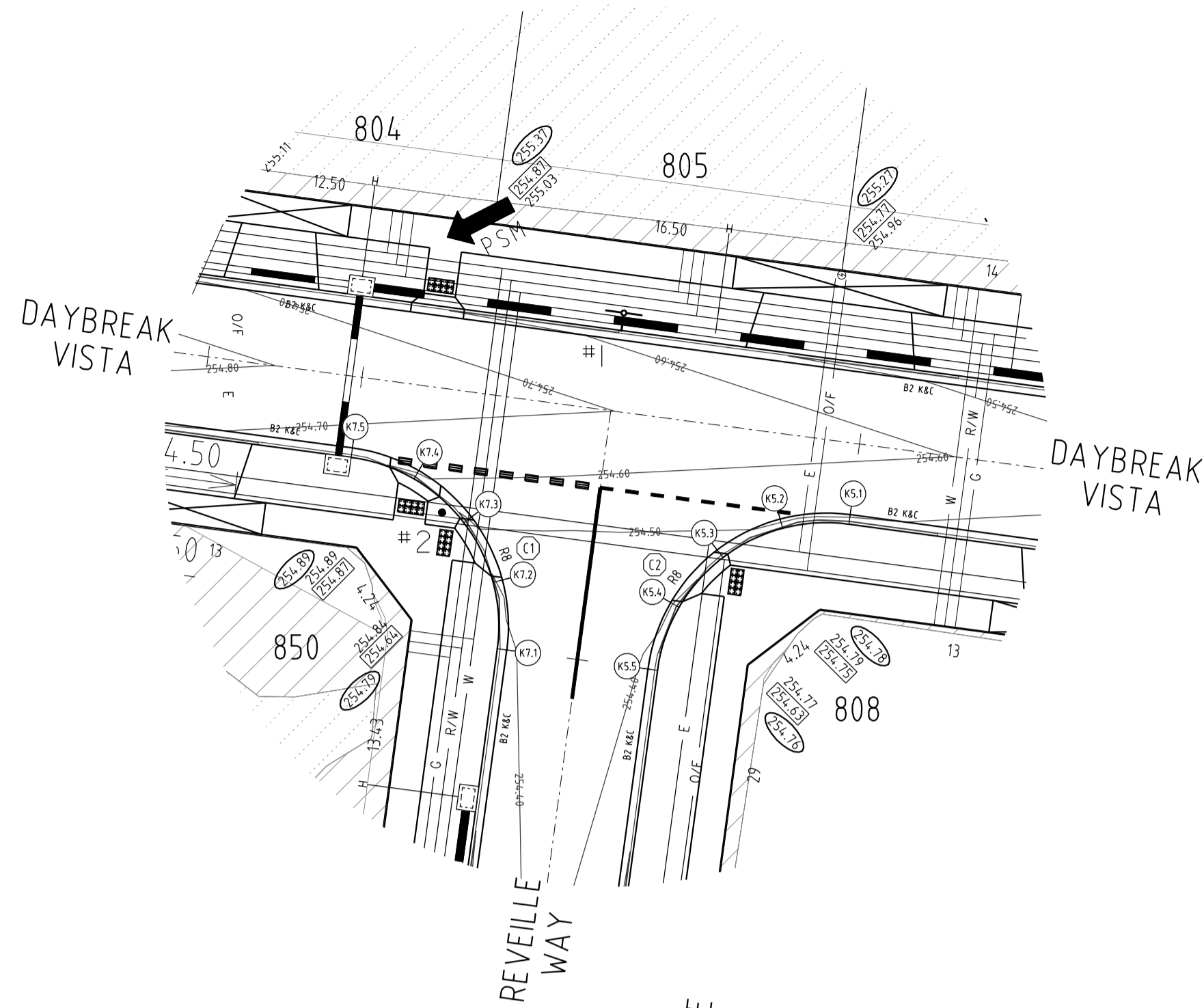
MORNINGTON
 5 Main Street,
 Phone(03) 5975 4644
 Fax(03) 5975 3916

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

• TOWN PLANNERS
 • CIVIL ENGINEERS
 • SURVEYORS
 • Project Managers
 • Urban Designers
 • Structural Engineers

WATSONS
 URBAN DEVELOPMENT
 CONSULTANTS & MANAGERS
 ABN 47 437 509 613

DETAIL PLAN

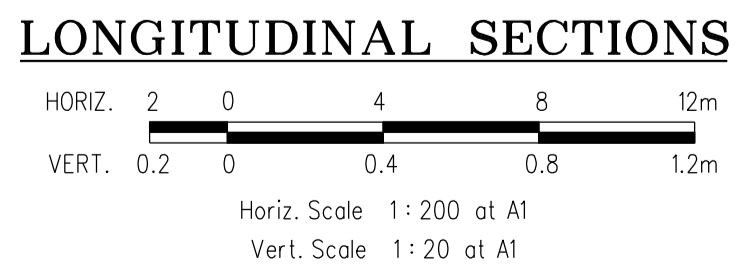


ALL WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS FOR ROAD AND DRAINAGE WORKS

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

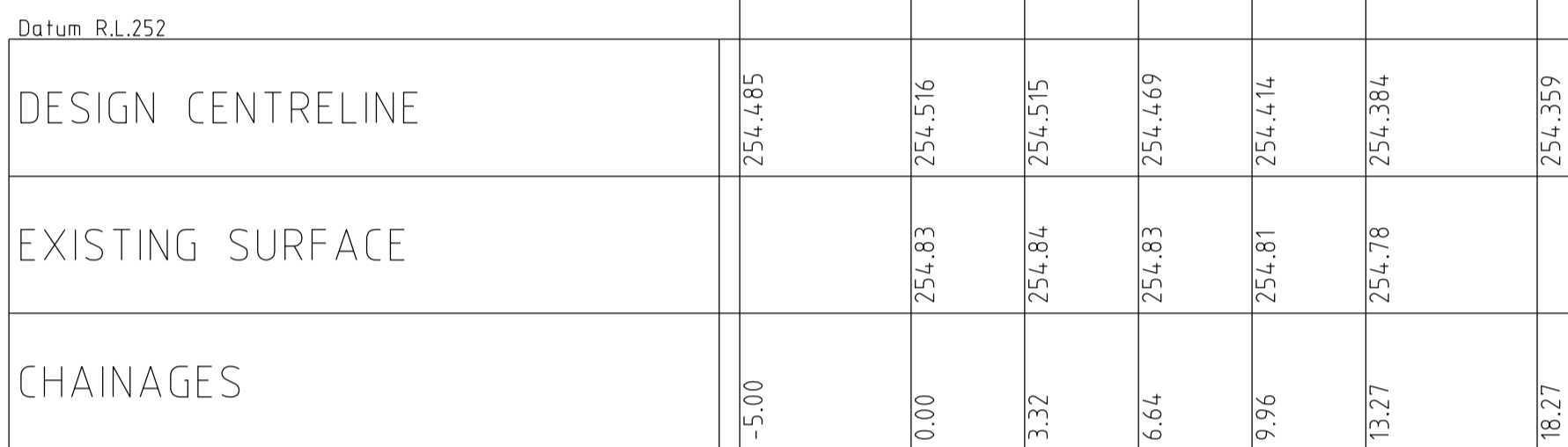


KERB RETURN K05

POINT NO.	EASTING	NORTHING	RL
K05.1	3780.154	10228.574	254.516
K05.2	3776.865	10228.366	254.515
K05.3	3773.903	10228.915	254.469
K05.4	3771.724	10224.441	254.414
K05.5	3770.657	10221.323	254.384

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length



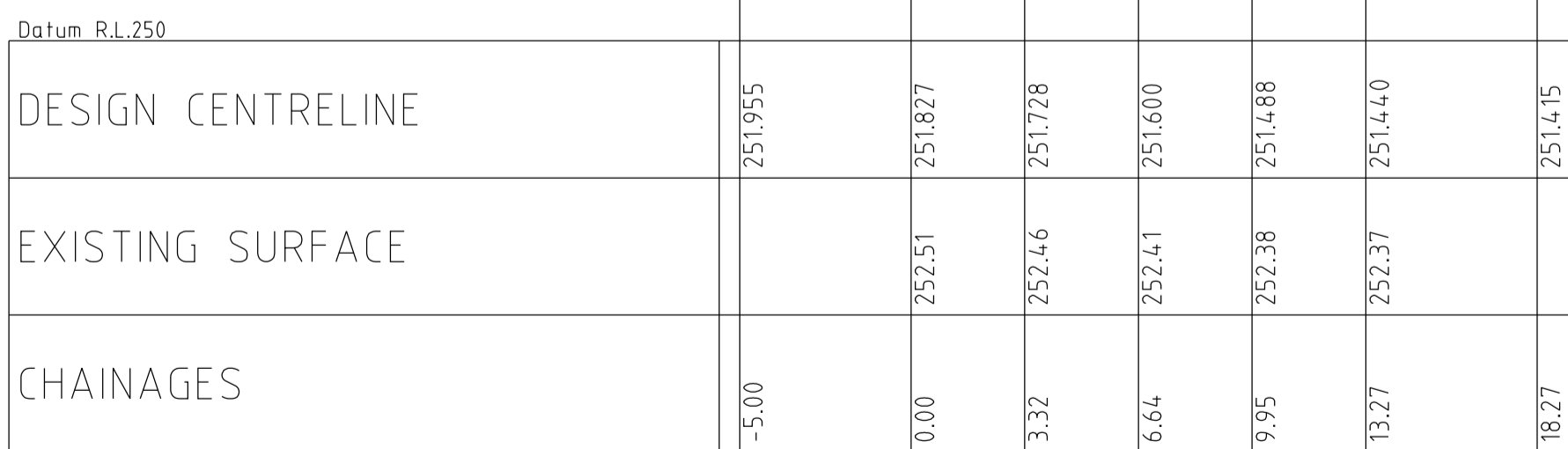
K05 LONGITUDINAL SECTION

KERB RETURN K06

POINT NO.	EASTING	NORTHING	RL
K06.1	3738.255	9979.65	251.827
K06.2	3738.462	9976.361	251.728
K06.3	3739.913	9973.401	251.6
K06.4	3742.388	9971.221	251.488
K06.5	3745.506	9970.154	251.44

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length



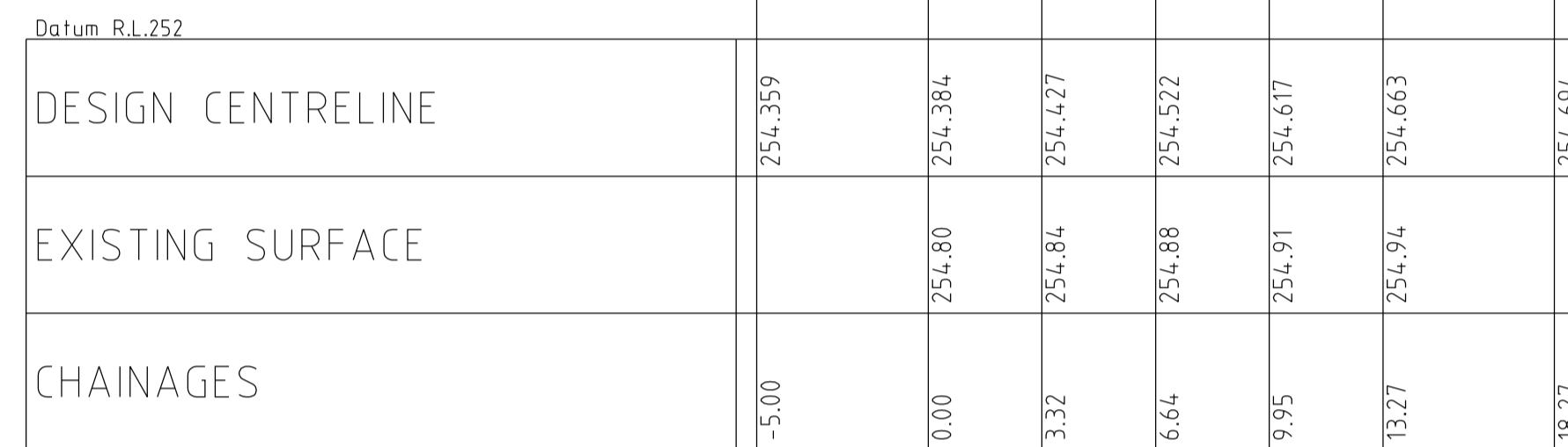
K06 LONGITUDINAL SECTION

KERB RETURN K07

POINT NO.	EASTING	NORTHING	RL
K07.1	3764.016	10222.213	254.384
K07.2	3763.808	10225.502	254.427
K07.3	3762.357	10228.463	254.522
K07.4	3759.883	10230.643	254.617
K07.5	3756.765	10231.71	254.663

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length



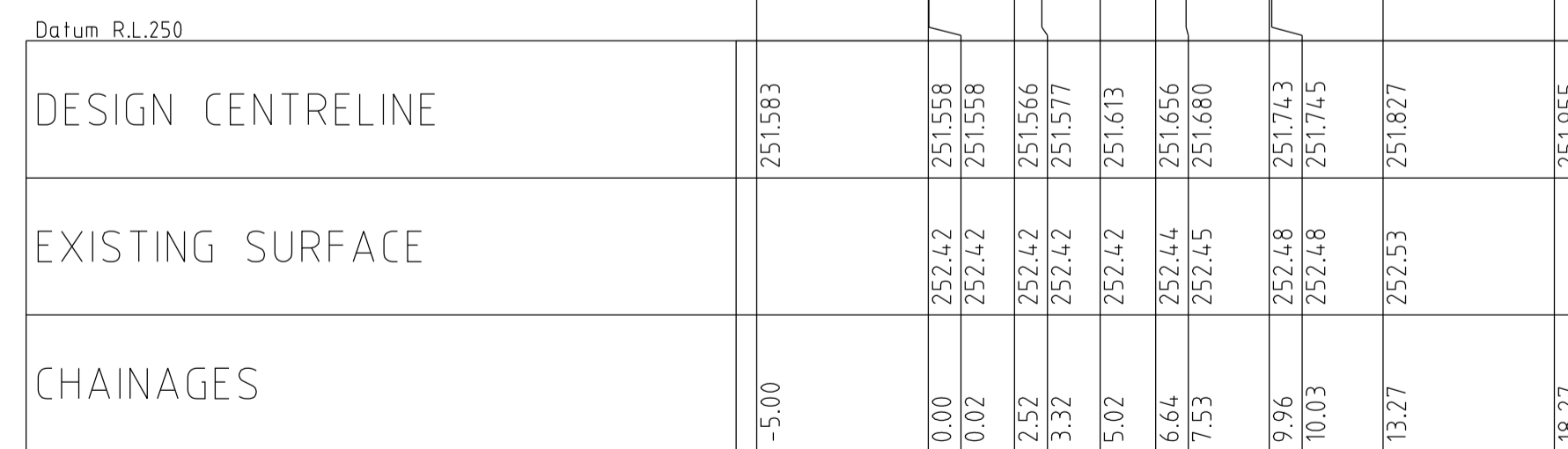
K07 LONGITUDINAL SECTION

KERB RETURN K08

POINT NO.	EASTING	NORTHING	RL
K08.1	3722.117	9973.29	251.558
K08.2	3725.407	9973.498	251.577
K08.3	3728.367	9974.948	251.656
K08.4	3730.547	9977.423	251.743
K08.5	3731.614	9980.541	251.827

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length



K08 LONGITUDINAL SECTION

VERSION DETAILS					
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC

SCALE:	AS SHOWN
DATE PRINTED:	15/10/2014
LEVEL DATA:	Ltopo.dgn
DATUM:	AHD
PROJECT No.:	36182/8
DRAWN:	C.M.B. DATE: MAY 2014
DESIGNED:	Z.W.L. DATE: MAY 2014
AUTHORISED:	A.S.C. DATE: MAY 2014

MORNINGTON
5 Main Street,
Phone:031 5975 4644
Fax:031 5975 3916

- TOWN PLANNERS
- CIVIL ENGINEERS
- SURVEYORS

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Rd.
Phone:031 9697 8000
Fax:031 9697 8099

- Project Managers
- Urban Designers
- Structural Engineers

WATSONS
URBAN DEVELOPMENT
CONSULTANTS & MANAGERS
ABN 47 637 589 613

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/8 R05
INTERSECTION DETAILS & LIP OF KERB PROFILES		REVISION
		SHEET 5 OF 24

DAYBREAK VISTA
LONGITUDINAL SECTION

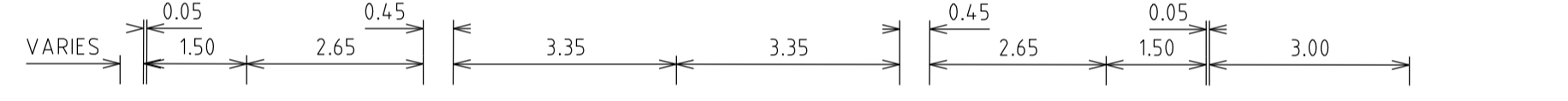
HORIZ 0 5 10 20 30m
VERT 0 5 1 2 3m

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

Horizontal Geometry
Vertical Grade
VC length

Datum RL.248

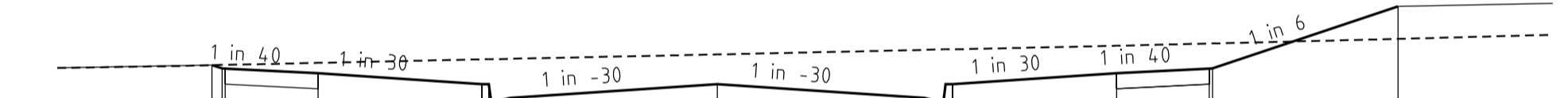
CHAINAGES	DESIGN CENTRELINE	EXISTING SURFACE
14.00	253.433	254.02
14.39	253.462	254.05
14.90	253.500	254.07
160.00	253.581	254.14
164.00	253.611	254.24
168.00	253.641	254.39
172.00	253.671	254.53
172.02	253.671	254.53
180.00	253.739	254.43
186.10	253.802	254.38
187.02	253.812	254.38
199.20	253.970	254.45
200.00	254.45	253.981
202.02	254.47	254.012
202.08	254.47	254.013
217.08	254.56	254.208
220.00	254.58	254.238
222.80	254.60	254.264
230.10	254.64	254.322
232.08	254.66	254.335
235.00	254.68	254.353
240.00	254.71	254.384
244.10	254.73	254.410
251.00	254.76	254.453
256.60	254.78	254.487
260.00	254.80	254.508
267.00	254.82	254.552
267.10	254.82	254.553
279.20	254.87	254.628
280.00	254.87	254.633
300.00	254.96	254.757
302.80	254.98	254.774
310.10	255.02	254.820
315.00	255.06	254.850
320.00	255.08	254.881
320.60	255.09	254.885
329.10	255.13	254.938
332.00	255.14	254.956
337.60	255.16	254.990
340.00	255.17	255.005
360.00	255.22	255.129
380.00	255.29	255.254
400.00	255.39	255.378
408.05	255.43	255.428



Datum 253.00

CHAINAGE	DESIGN RL'S	EX.SURFACE	OFFSET
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000
267.00	254.736	254.736	0.000

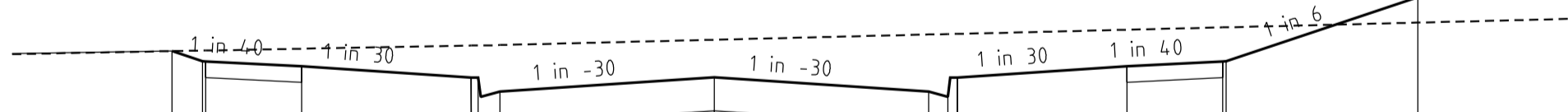
Chainage 267.00



Datum 253.00

CHAINAGE	DESIGN RL'S	EX.SURFACE	OFFSET
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000
279.20	254.781	254.781	0.000

Chainage 279.20



Datum 253.00

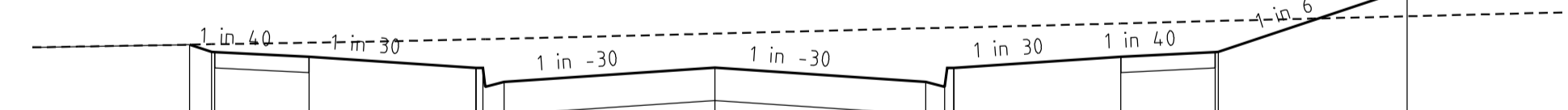
CHAINAGE	DESIGN RL'S	EX.SURFACE	OFFSET
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000
256.60	254.487	254.487	0.000

Chainage 256.60

DAYBREAK VISTA
CROSS SECTIONS

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

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

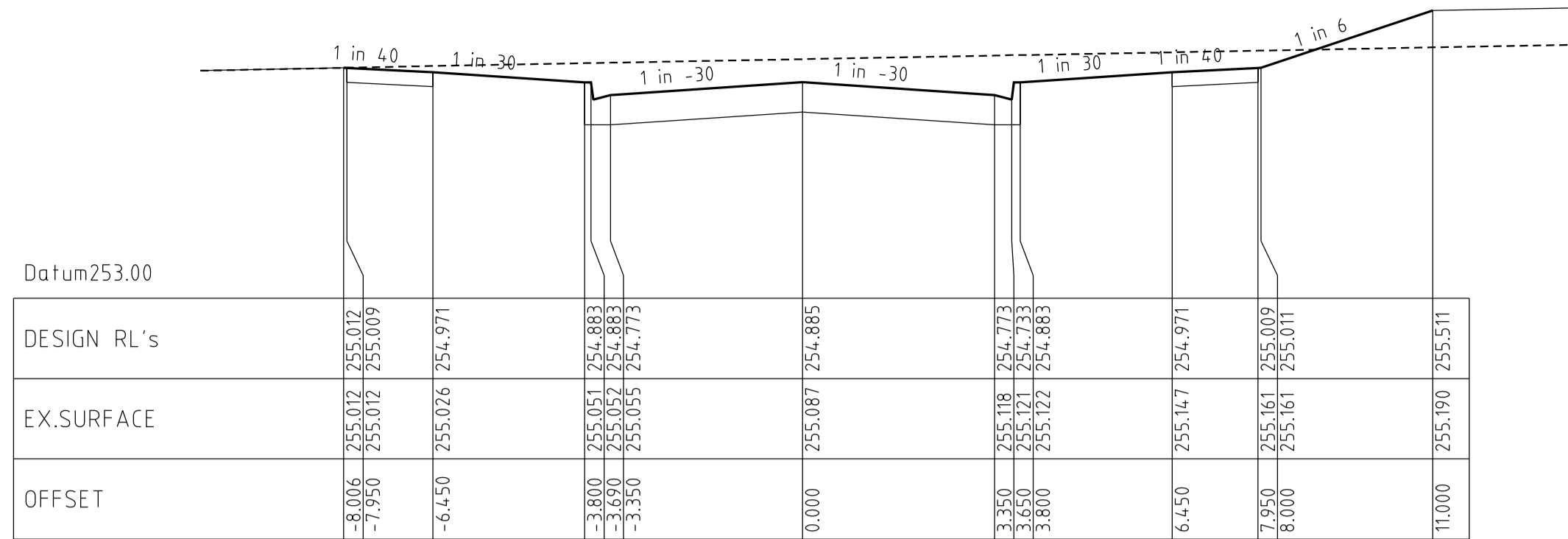


Datum 253.00

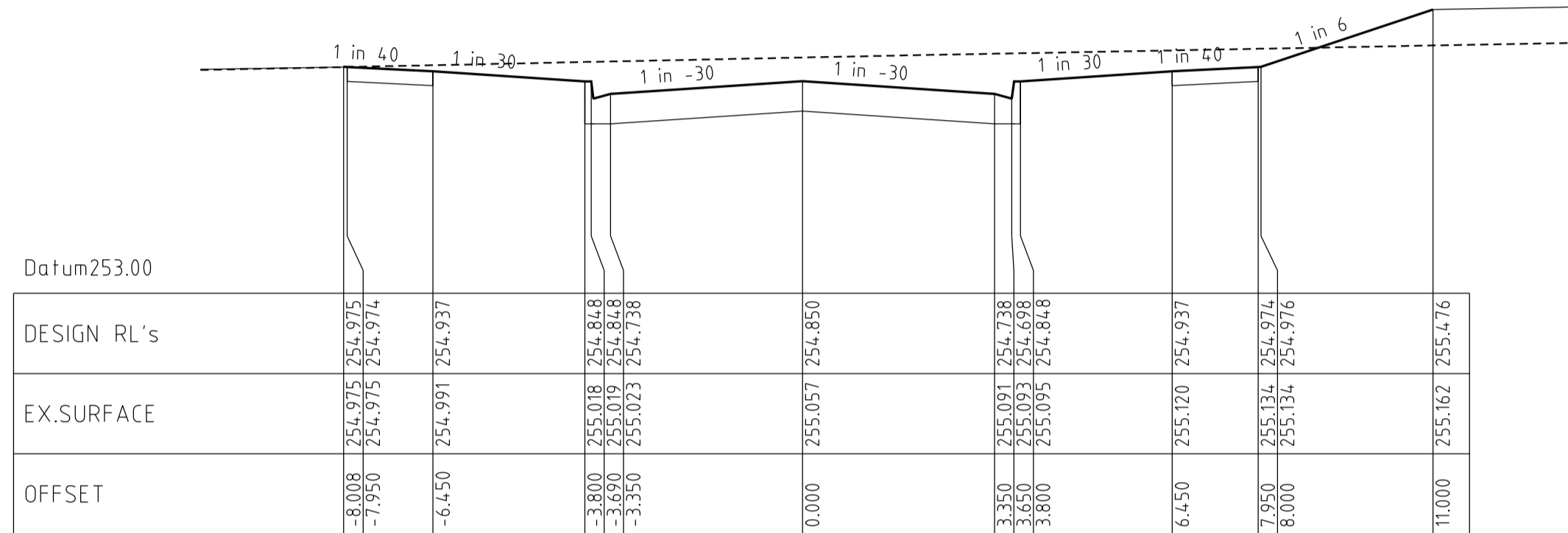
CHAINAGE	DESIGN RL'S	EX.SURFACE	OFFSET
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000
267.10	254.781	254.781	0.000

Chainage 267.10

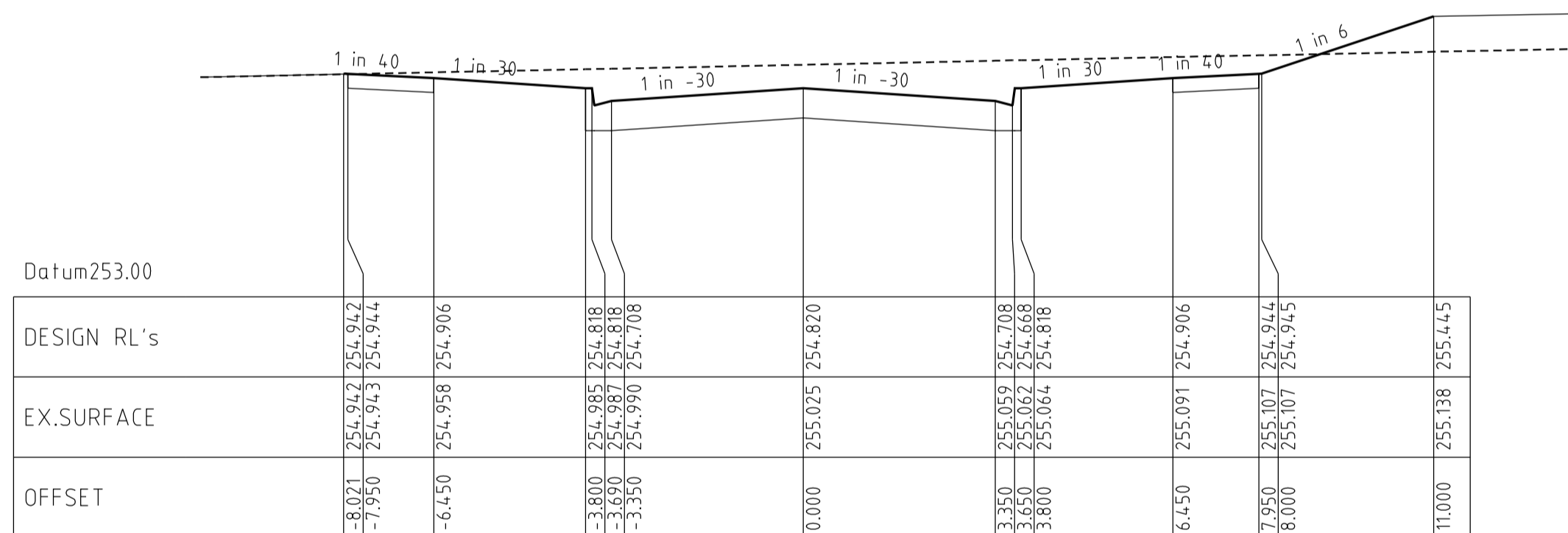
VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	15/10/2014	• TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS • Project Managers • Urban Designers • Structural Engineers		36182/8 R06
						LEVEL DATA:	Ltopo.dgn			
						DATUM:	AHD			
						PROJECT No.:	36182/8			
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAY 2014	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DESIGNED:	Z.W.L. DATE: MAY 2014			
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	AUTHORISED:	A.S.C. DATE: MAY 2014			
FILENAME: k:\36182\36182_8.dgn\06.dgn						MORNINGTON 5 Main Street, Phone: (03) 5975 4644 Fax: (03) 5975 3916		 ABN 47 637 589 613		SHEET 6 OF 24



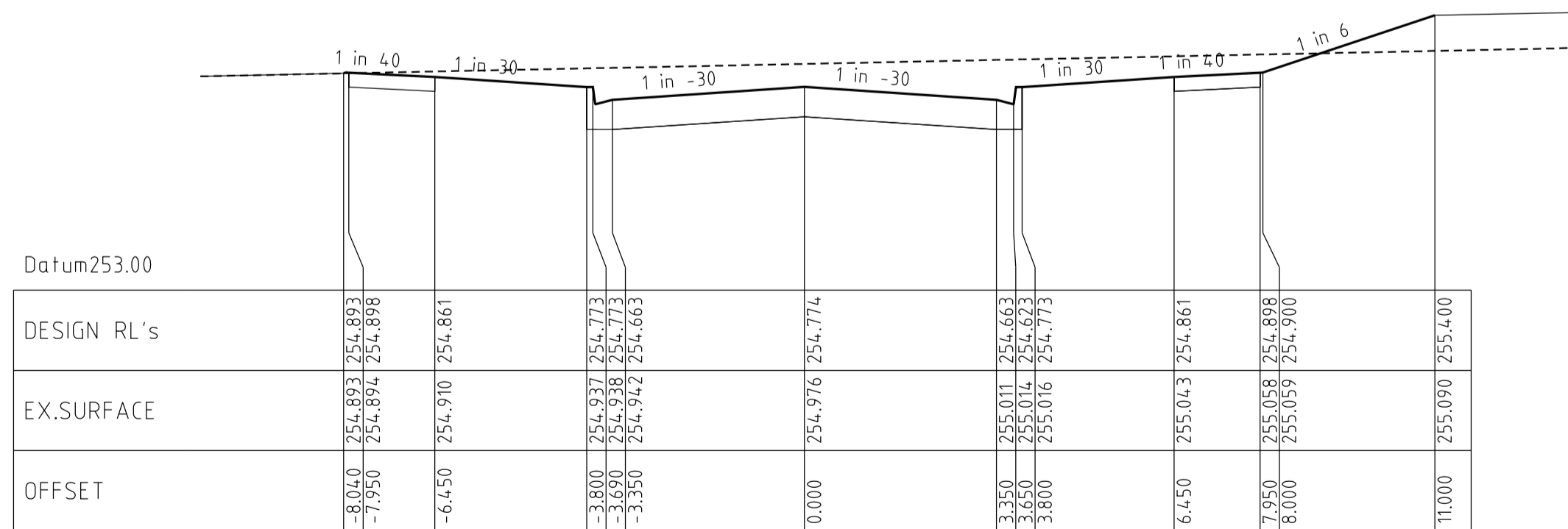
Chainage 320.60



Chainage 315.00



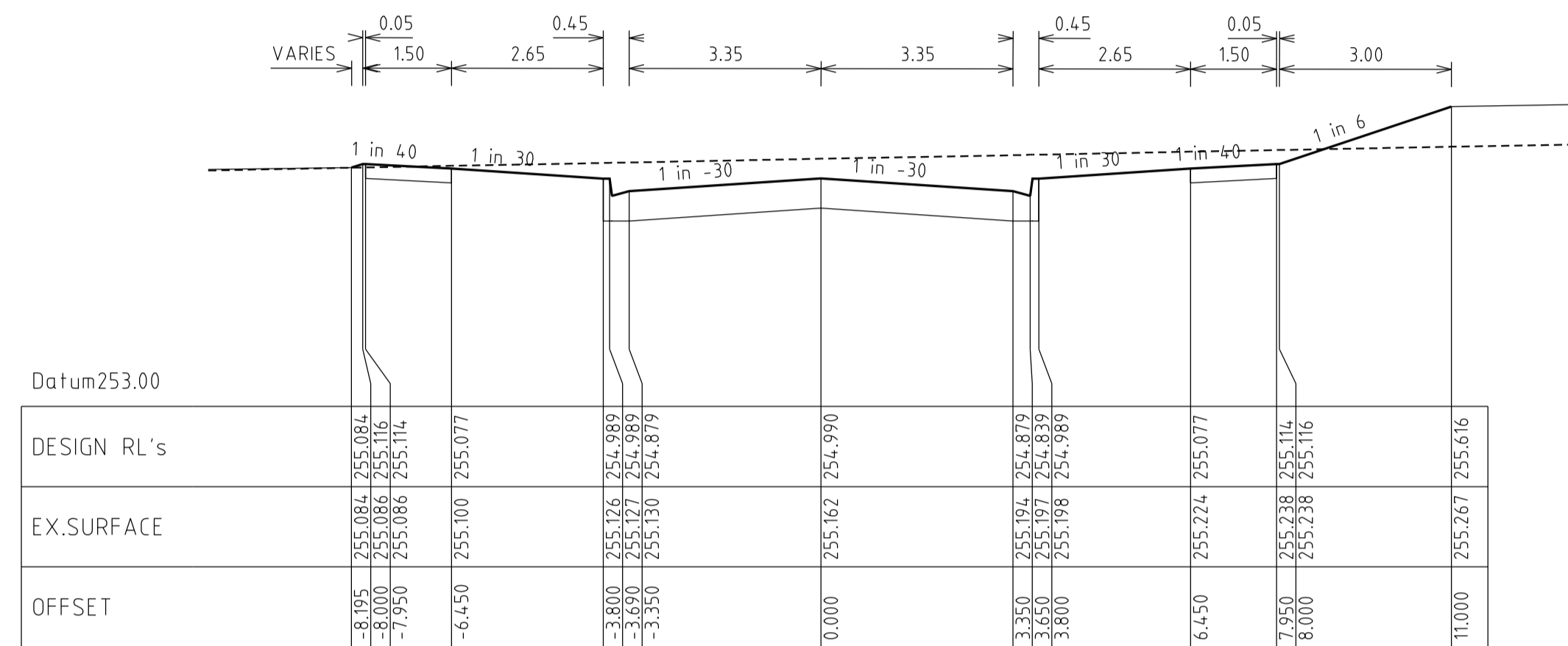
Chainage 310.10



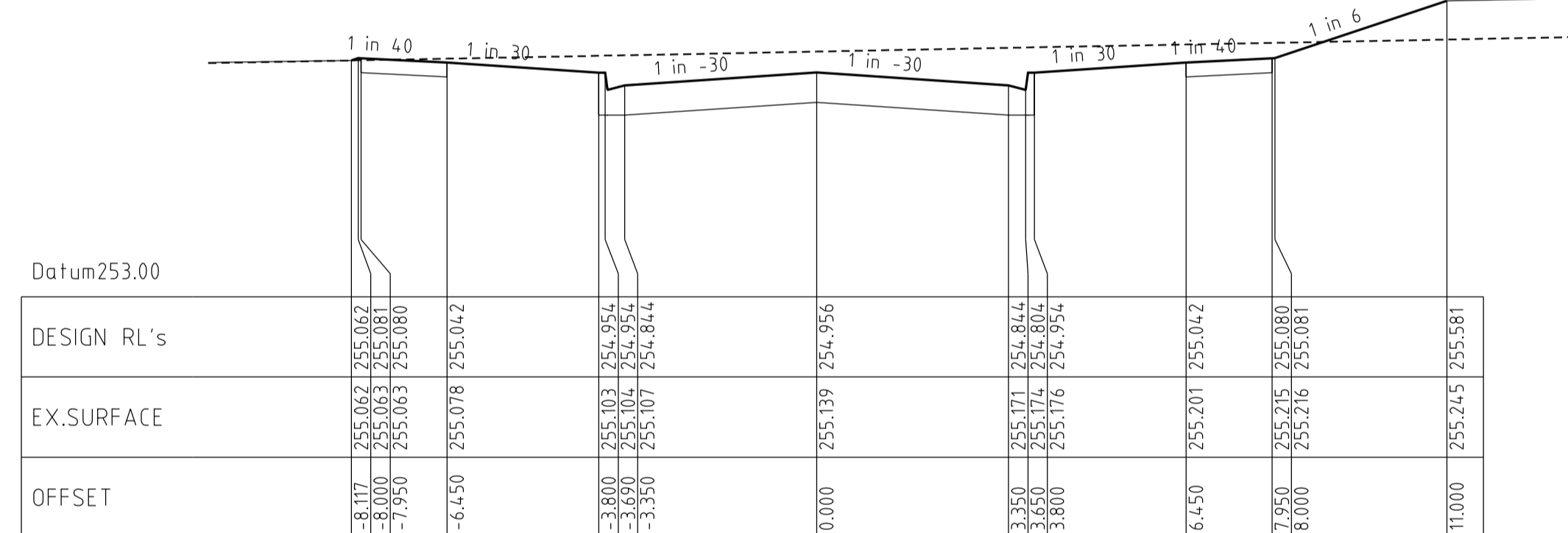
Chainage 302.80

**DAYBREAK VISTA
CROSS SECTIONS**

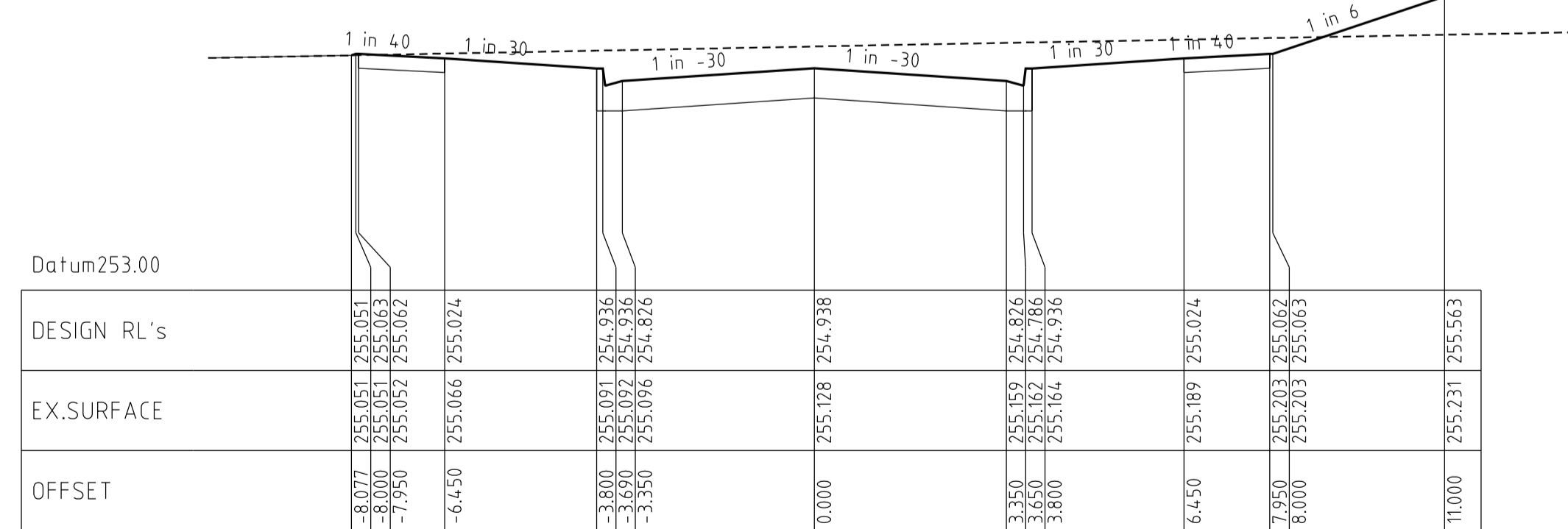
HORIZ 1 0 2 4 6m
 VERT 0 5 1 2 3m
 Horiz Scale 1 : 100 at A1
 Vert Scale 1 : 50 at A1



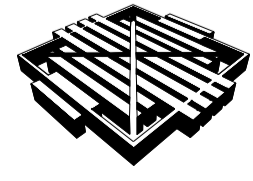
Chainage 337.60



Chainage 332.00



Chainage 329.10

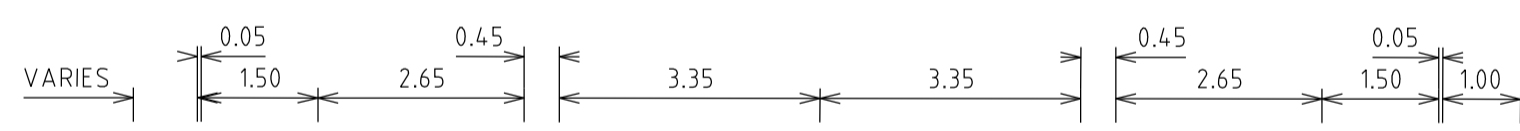
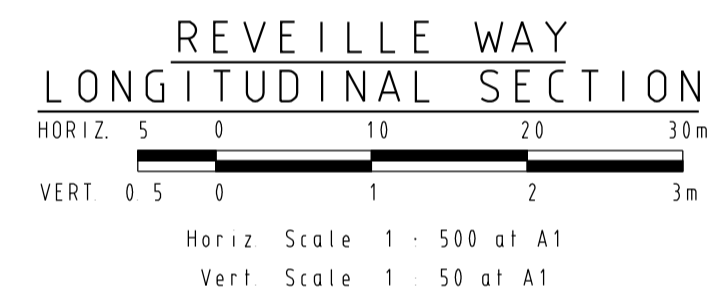
VERSION DETAILS						SCALE:		MORNINGTON 5 Main Street, Phone:031 5975 4644 Fax:031 5975 3916 MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone:031 9697 8000 Fax:031 9697 8099	HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	AS SHOWN			VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/8 R07
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	DATE PRINTED: 15/10/2014			 Project Managers Urban Designers Structural Engineers		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	LEVEL DATA: Ltopo.dgn			URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 599 613		SHEET 7 OF 24
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DATUM: AHD					
PROJECT No.: 36182/8 DRAWN: C.M.B. DATE: MAY 2014 DESIGNED: Z.W.L. DATE: MAY 2014 AUTHORISED: A.S.C. DATE: MAY 2014											

FILENAME: k:\36182\36182_8.dgn\07.dgn

Horizontal Geometry
Vertical Grade
VC length

Datum RL.247

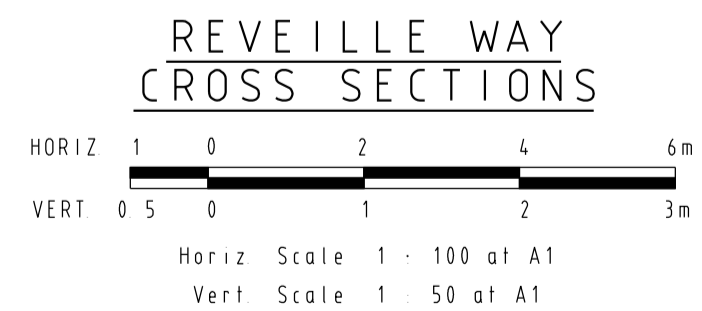
DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
254.557	254.92	0.00
254.496	254.79	11.80
254.454	254.72	20.00
254.431	254.69	24.43
254.351	254.58	40.00
254.349	254.56	40.43
254.341	254.57	41.87
254.268	254.47	54.43
254.258	254.46	56.00
254.230	254.43	60.00
254.179	254.38	66.87
254.154	254.35	70.00
254.151	254.35	70.43
254.067	254.25	80.00
254.025	254.20	84.43
254.010	254.19	86.00
253.950	254.13	91.87
253.864	254.04	100.00
253.860	254.03	100.43
253.843	254.02	102.00
253.728	253.95	112.93
253.711	253.94	114.50
253.654	253.90	120.00
253.581	253.85	126.93
253.543	253.82	130.50
253.443	253.74	140.00
253.412	253.71	142.93
253.396	253.69	144.50
253.281	253.57	155.43
253.218	253.54	158.50
253.233	253.52	160.00
253.133	253.46	169.43
253.117	253.45	171.00
253.022	253.40	180.00
252.986	253.38	183.43
252.969	253.38	185.00
252.839	253.28	197.43
252.838	253.28	197.50
252.811	253.25	200.00
252.707	253.16	209.93
252.706	253.16	210.00
252.629	253.09	217.32
252.600	253.06	220.00
252.550	253.01	224.00
252.503	252.96	227.43
252.320	252.79	238.43
252.290	252.77	240.00
252.244	252.73	242.32
252.220	252.71	243.48
251.939	252.52	255.63
251.824	252.45	260.00
251.614	252.35	267.32
251.611	252.35	267.43



Datum 253.00

DESIGN RL's	EX.SURFACE	OFFSET
254.759	254.759	-8.822
254.622	254.762	-8.000
254.620	254.762	-7.950
254.583	254.767	-6.450
254.494	254.794	-3.800
254.494	254.794	-3.650
254.494	254.794	-3.350
254.496	254.789	0.000
254.620	254.839	7.950
254.622	254.830	8.000
254.788	254.836	9.000

Chainage 11.80

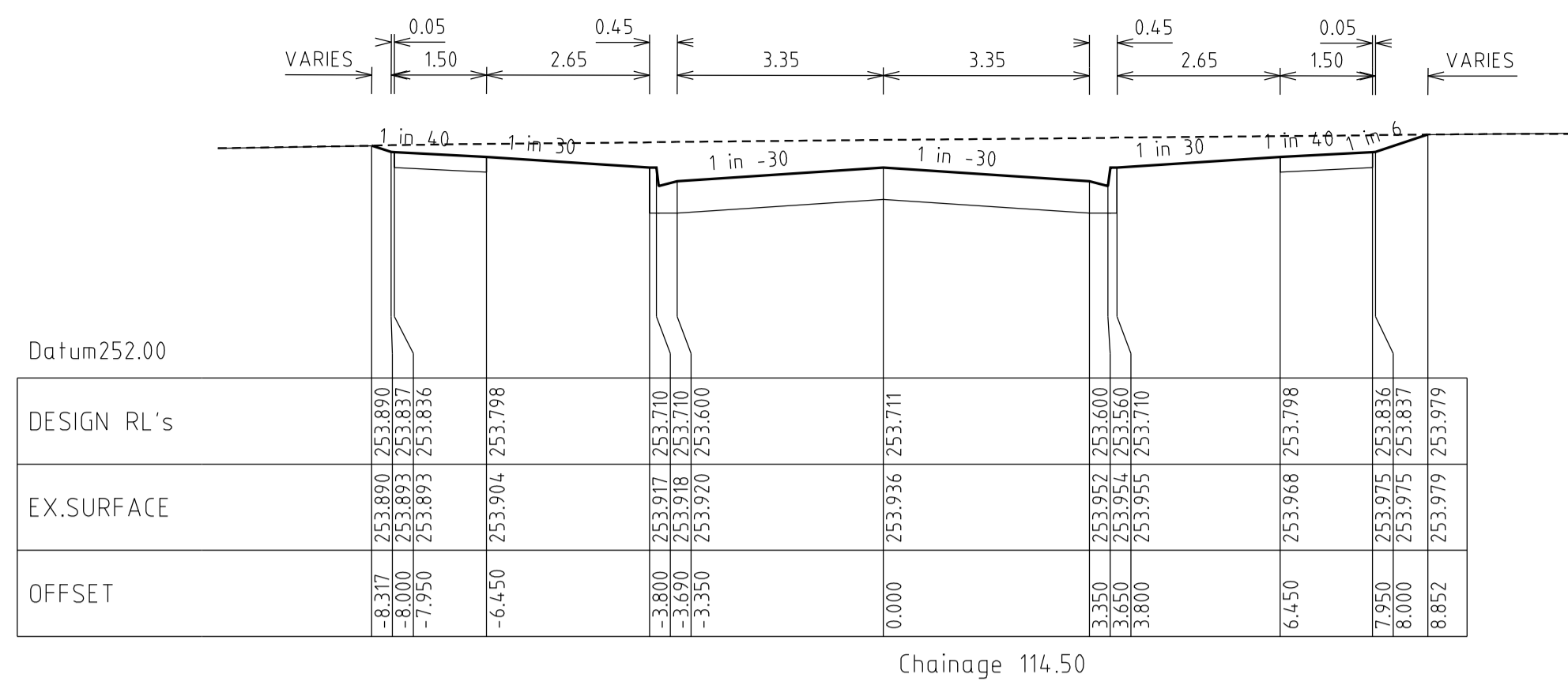


Datum 253.00

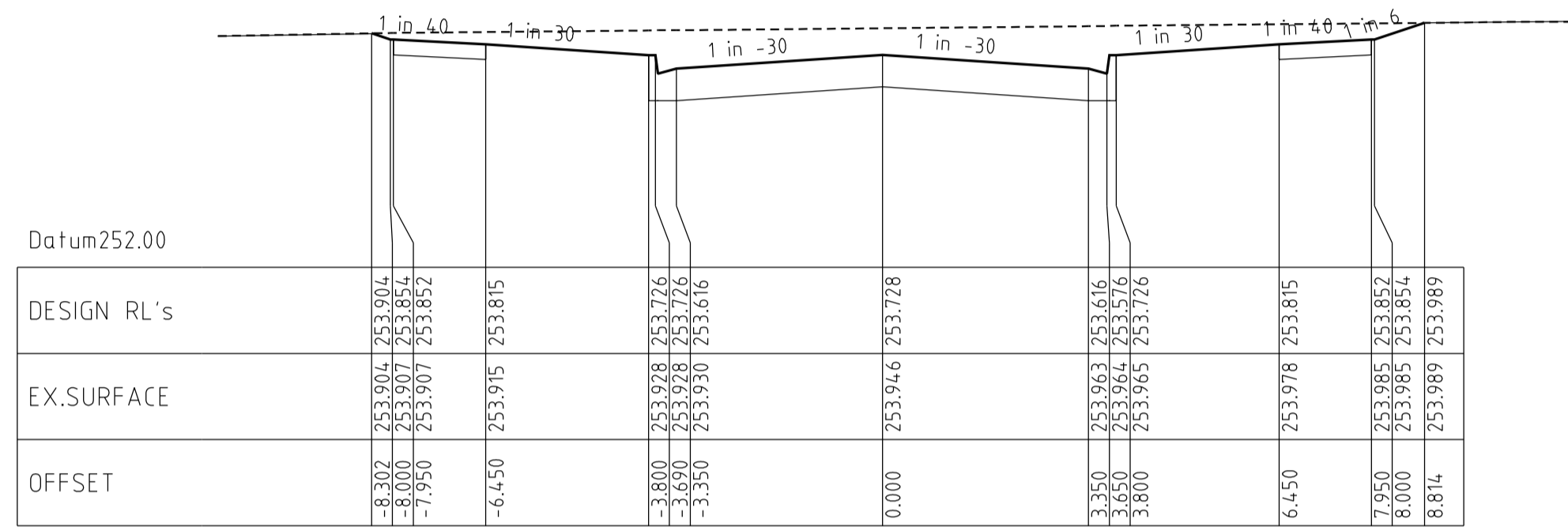
DESIGN RL's	EX.SURFACE	OFFSET
254.652	254.652	-8.571
254.551	254.654	-8.000
254.555	254.654	-7.950
254.518	254.659	-6.450
254.429	254.668	-3.800
254.429	254.669	-3.650
254.429	254.670	-3.350
254.431	254.689	0.000
254.518	254.724	6.450
254.555	254.732	7.950
254.557	254.732	8.000
254.724	254.738	9.000

Chainage 24.43

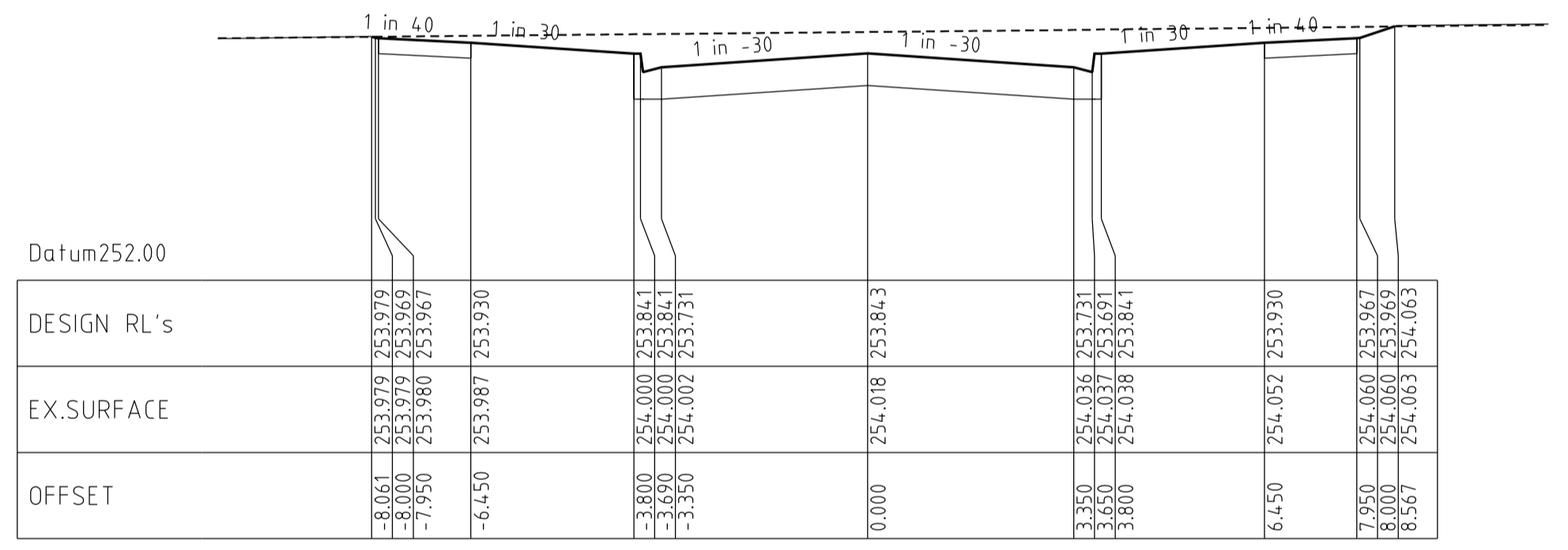
VERSION DETAILS						SCALE: AS SHOWN		MORNINGTON		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	15/10/2014	5 Main Street, Phone:031 5975 4644 Fax:031 5975 3916	TOWN PLANNERS CIVIL ENGINEERS SURVEYORS	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/8 R08
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	PROJECT No.:	36182/8	MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone:031 9697 8000 Fax:031 9697 8099	Project Managers Urban Designers Structural Engineers	REVELLE WAY LONGITUDINAL & CROSS SECTIONS		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAY 2014	WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 589 613				SHEET 8 OF 24
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DESIGNED:	Z.W.L. DATE: MAY 2014					
FILENAME: k:\36182\36182_8.dgn\08.dgn						AUTHORISED:	A.S.C. DATE: MAY 2014					



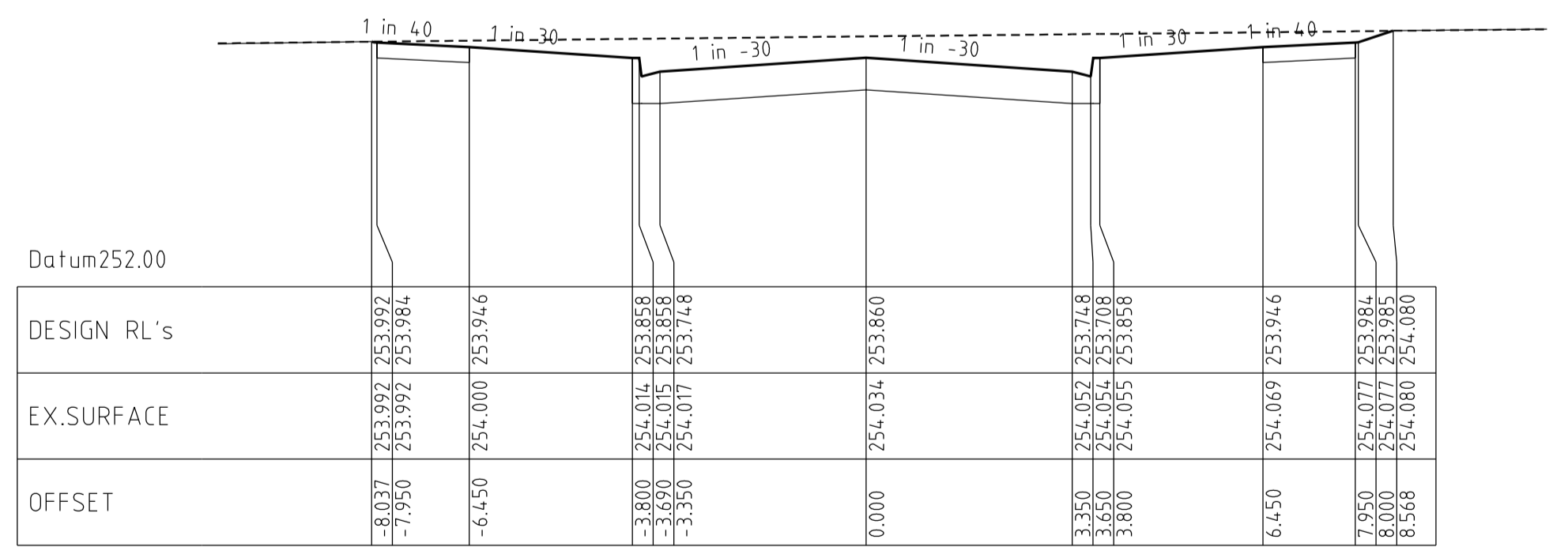
Chainage 114.50



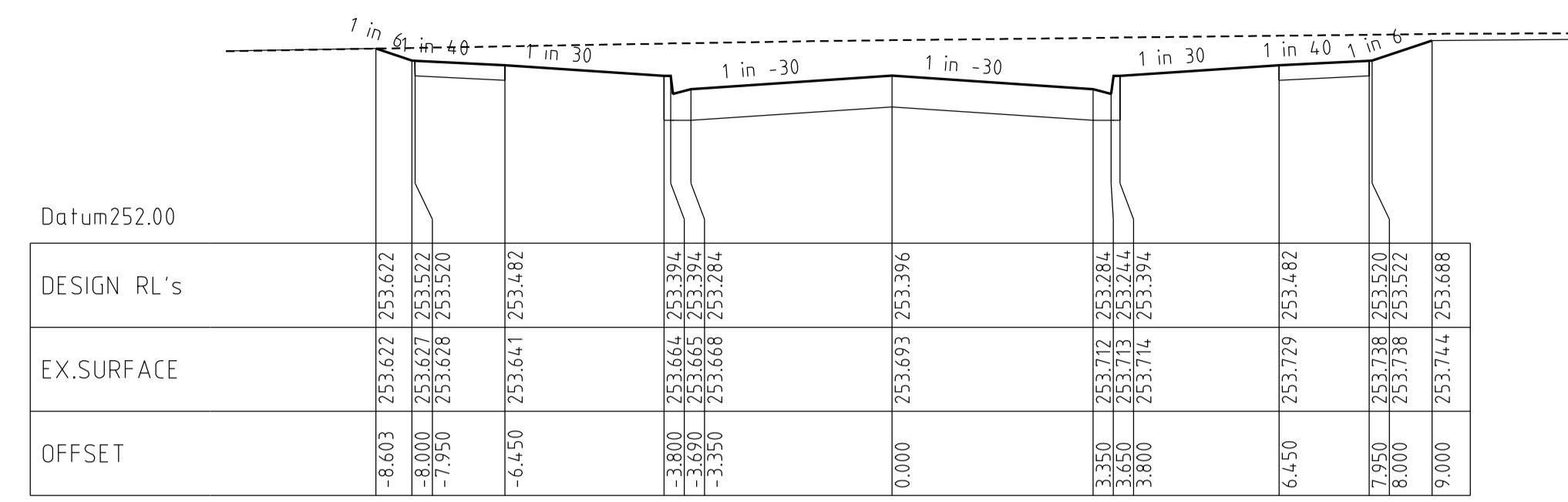
Chainage 112.93



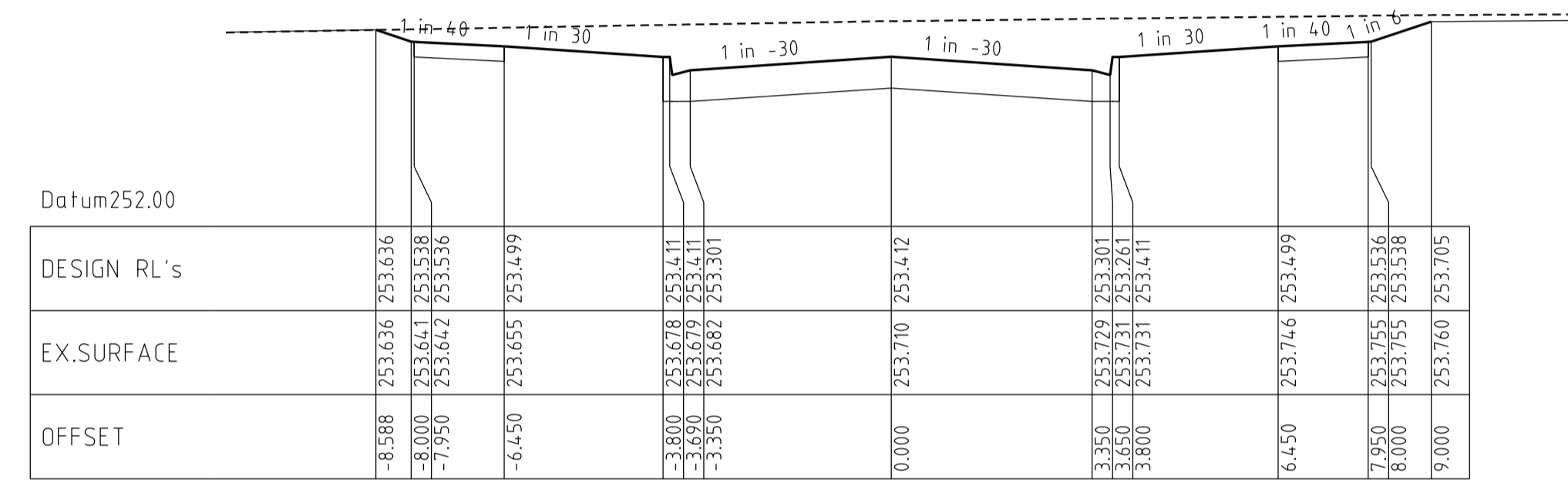
Chainage 102.00



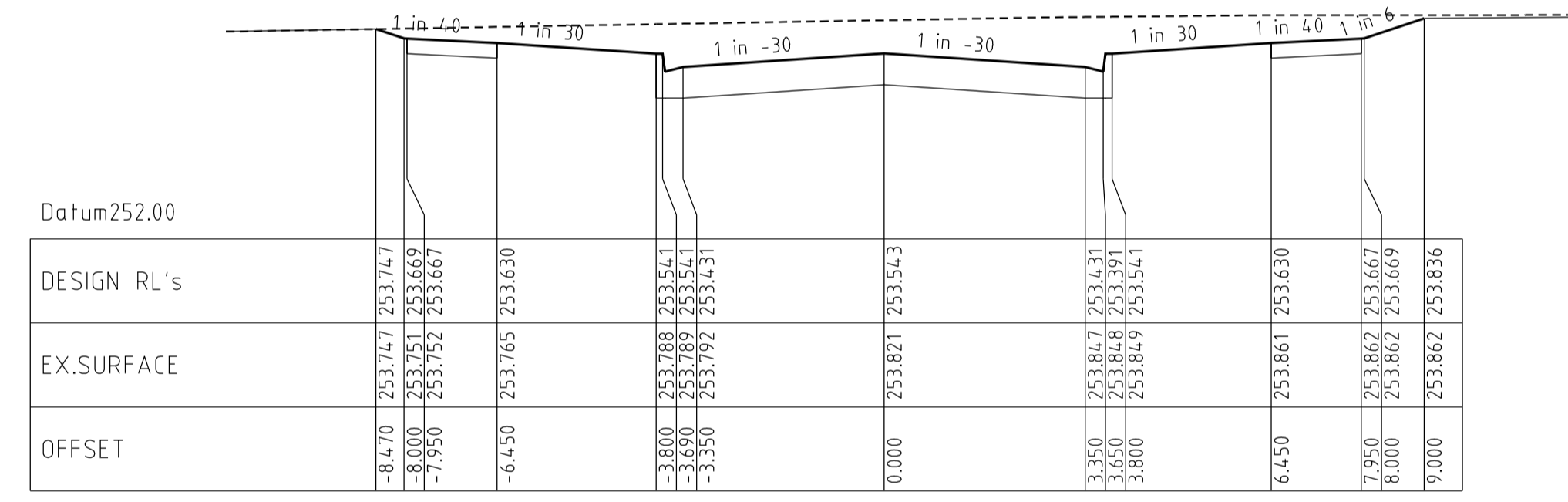
Chainage 100.43



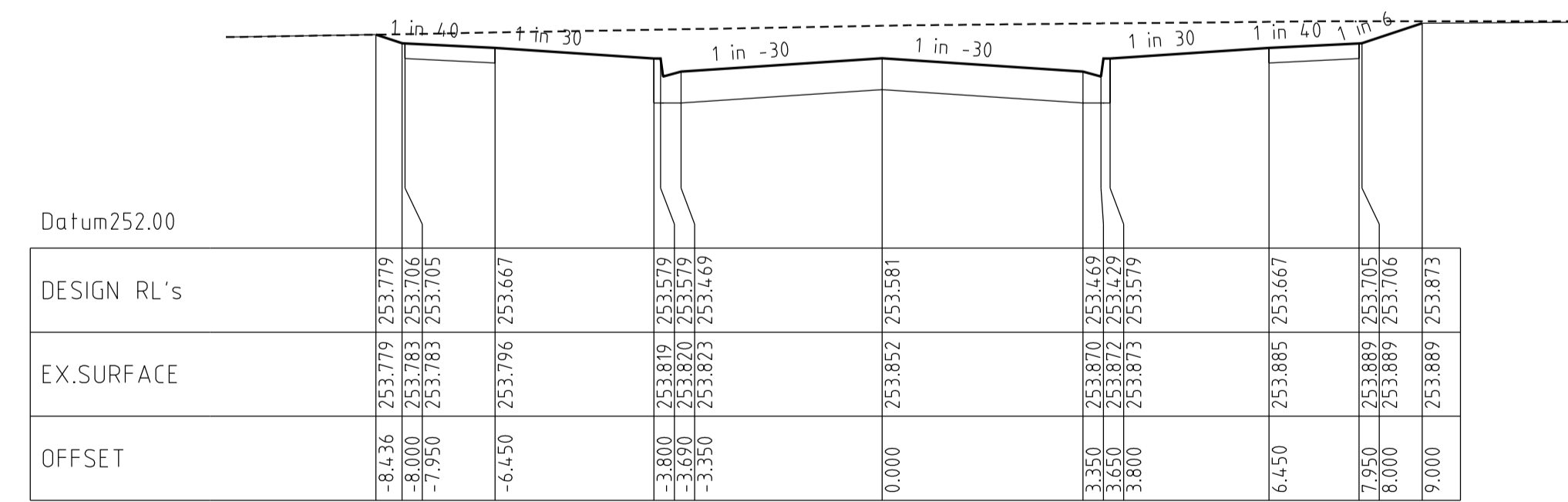
Chainage 144.50



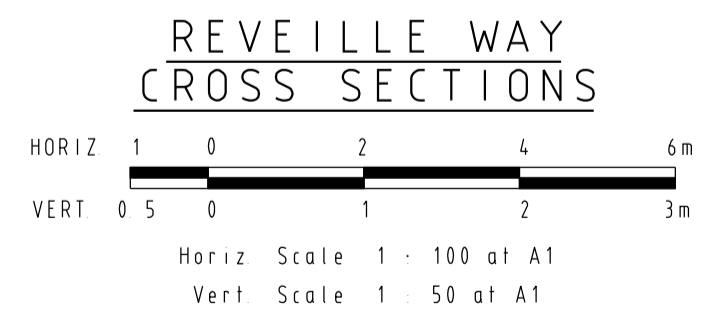
Chainage 142.93



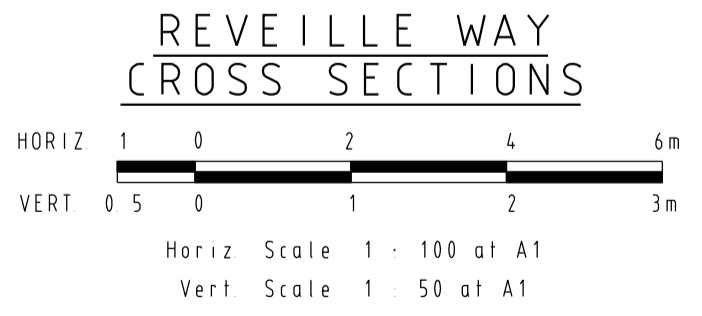
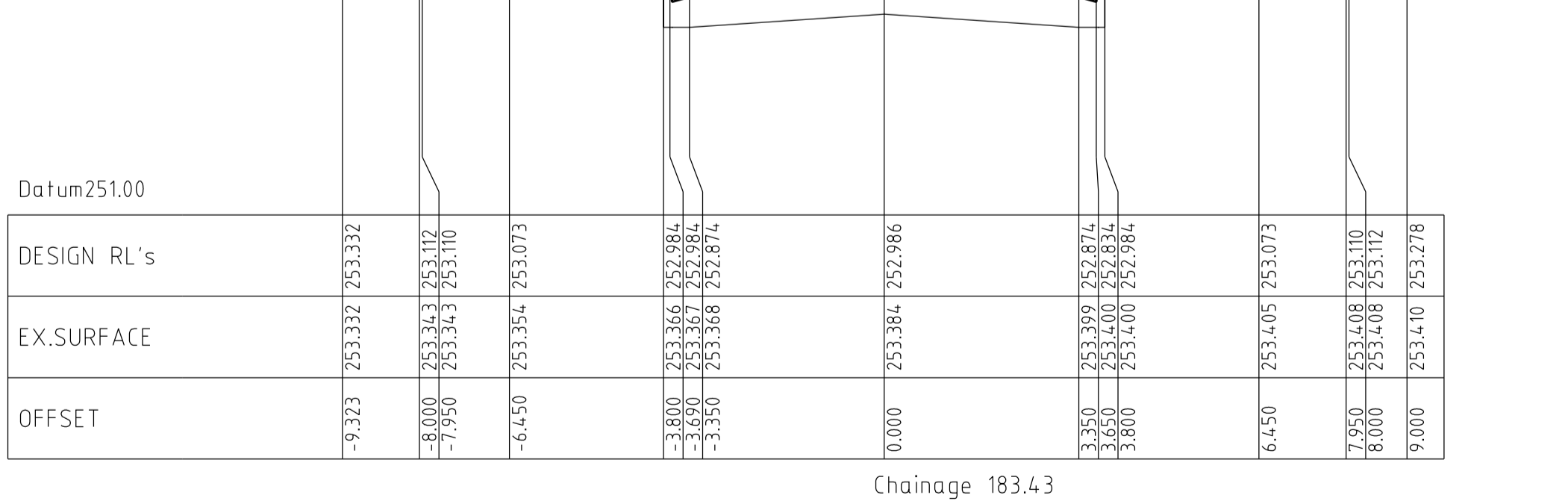
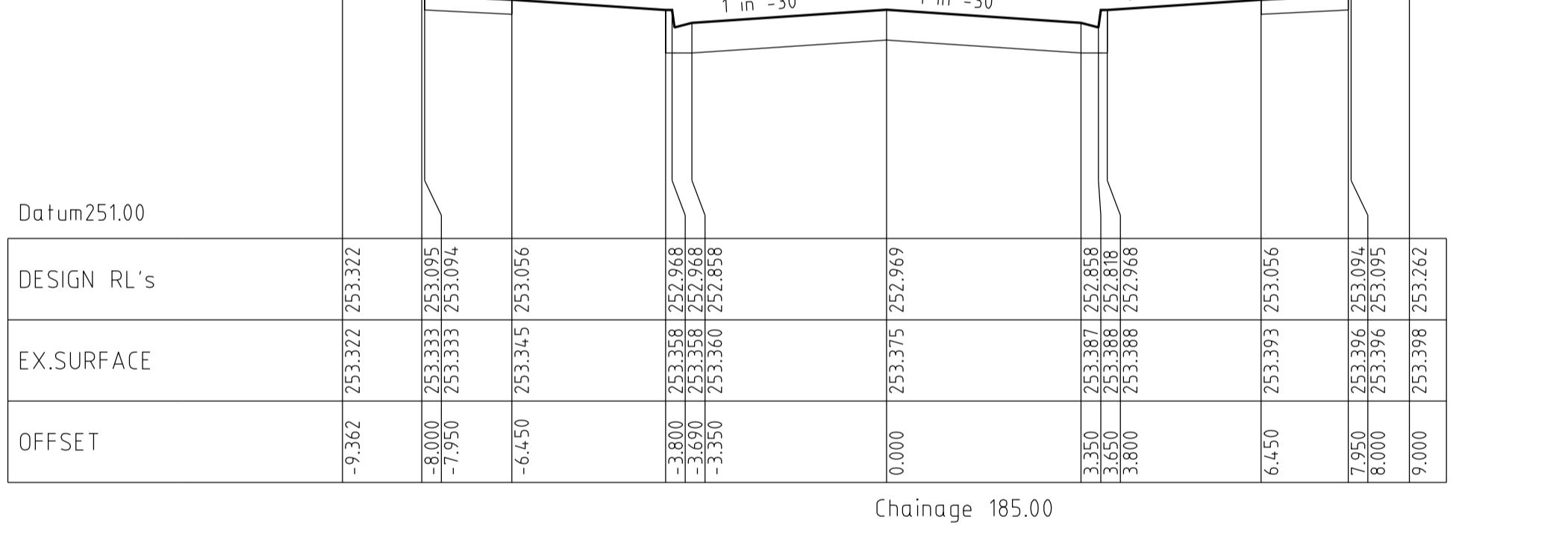
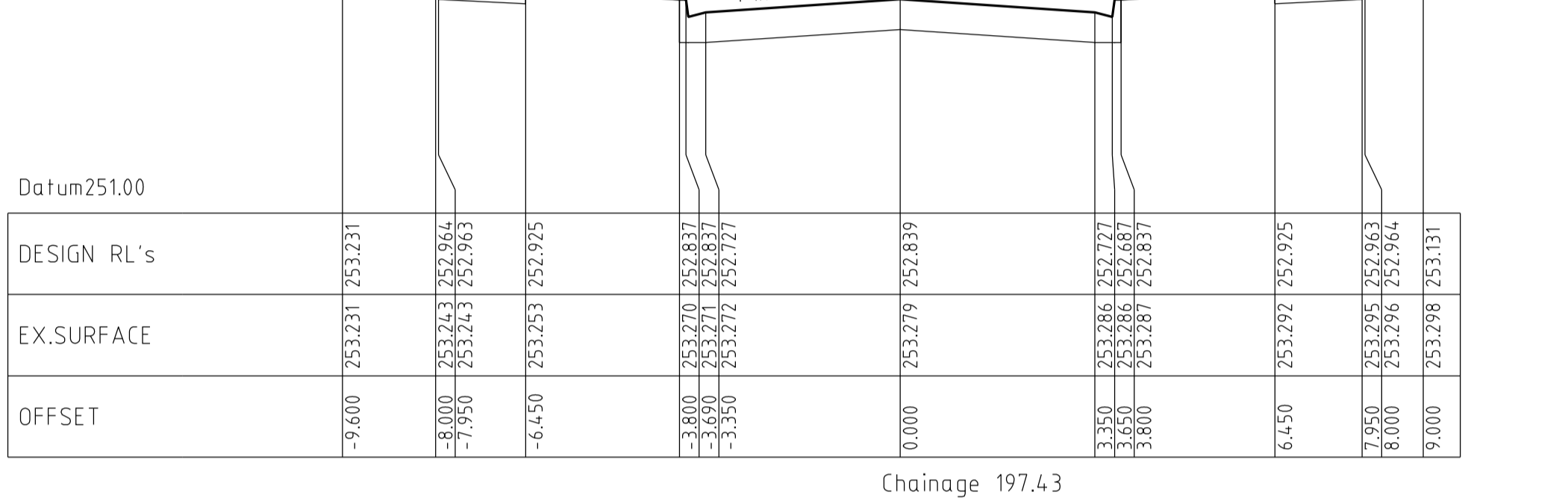
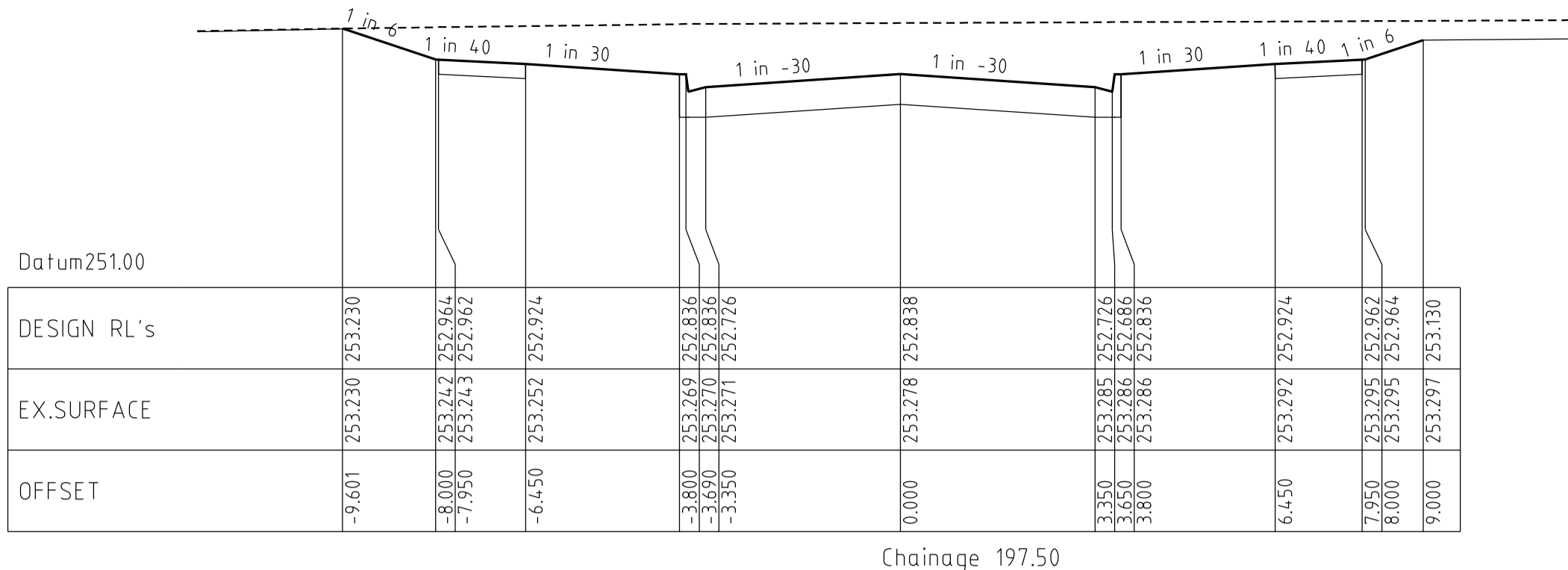
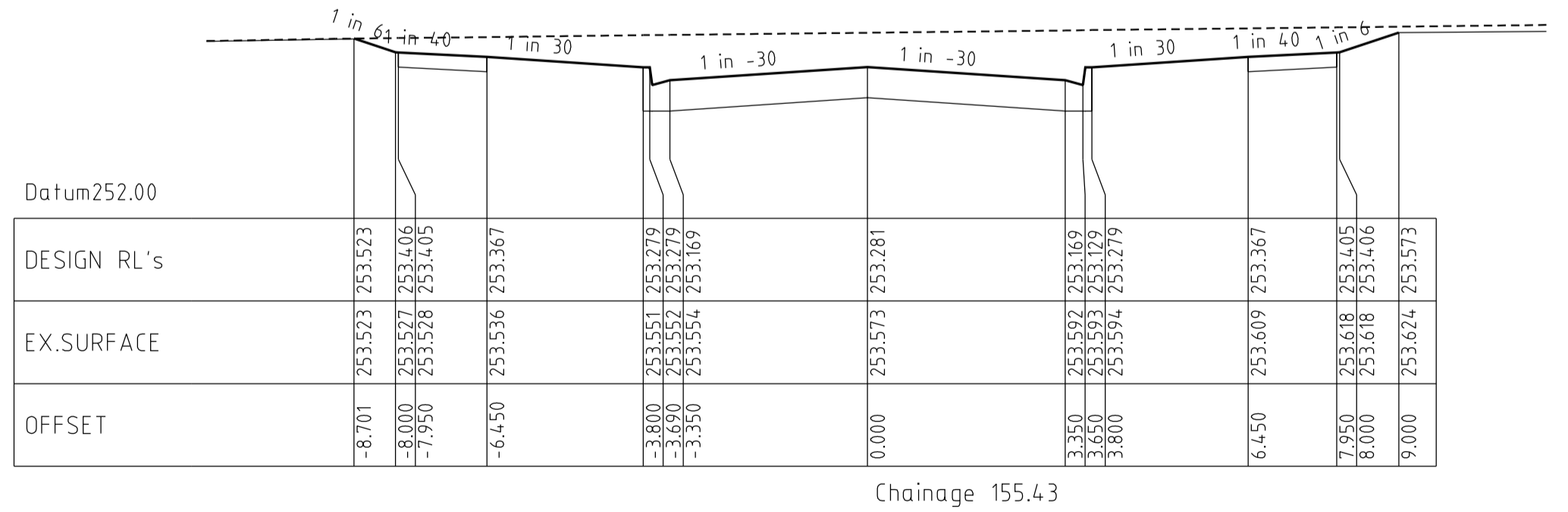
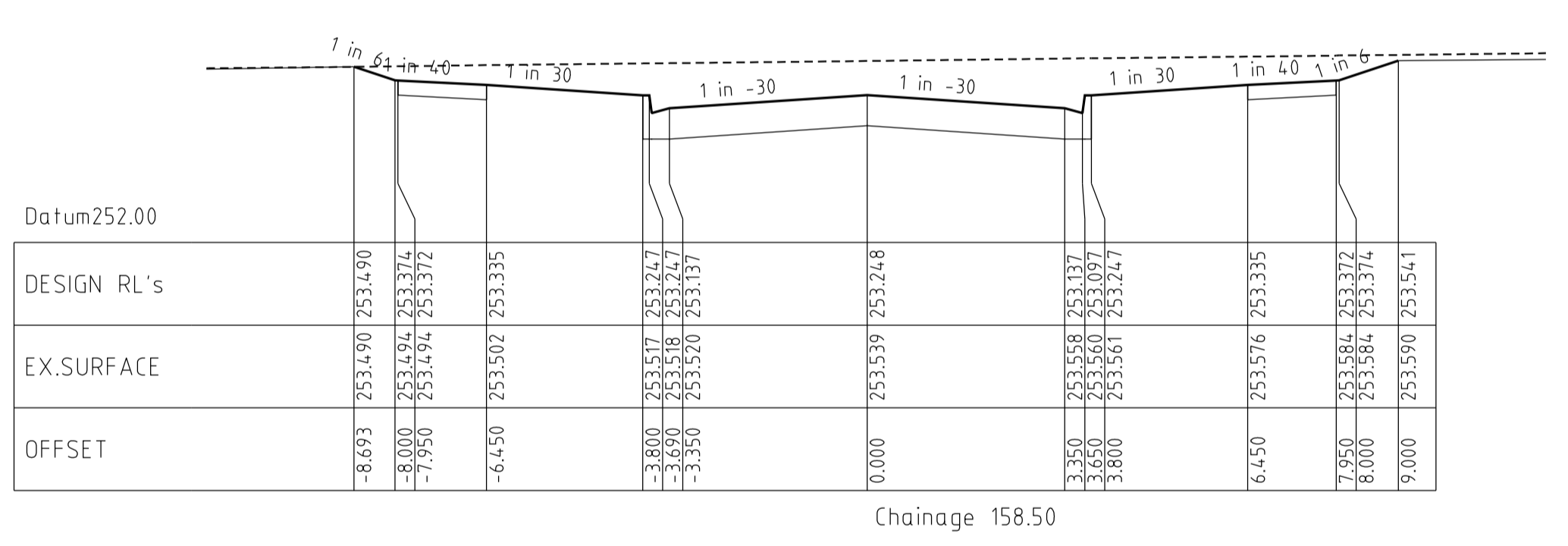
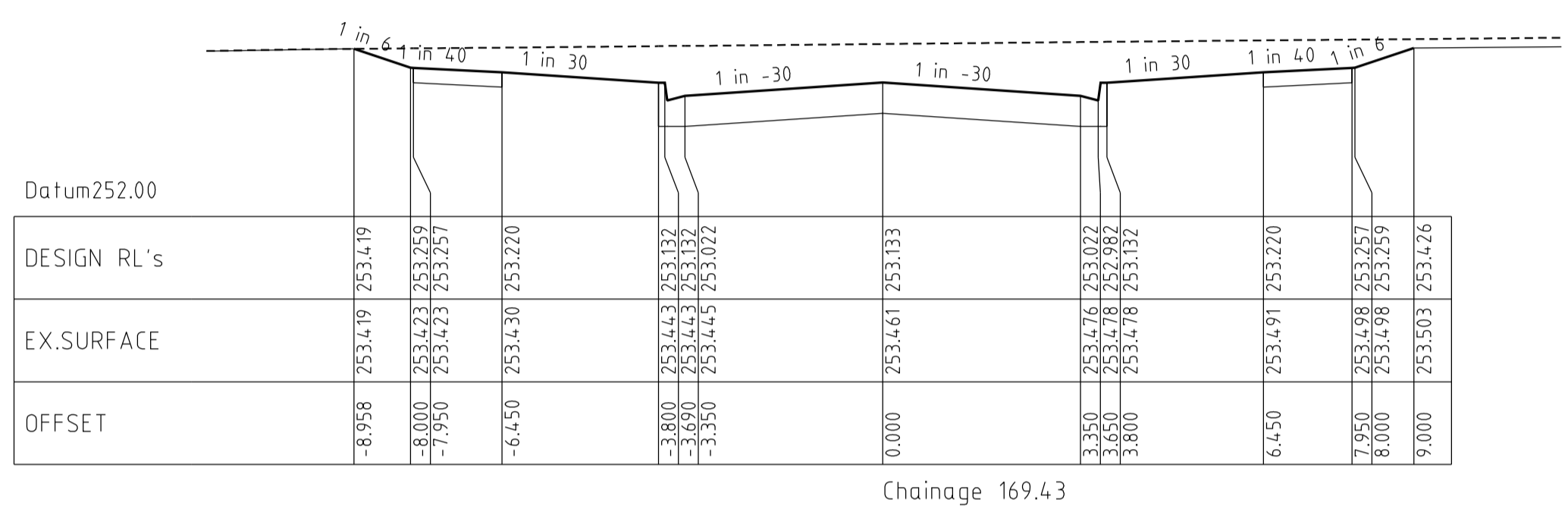
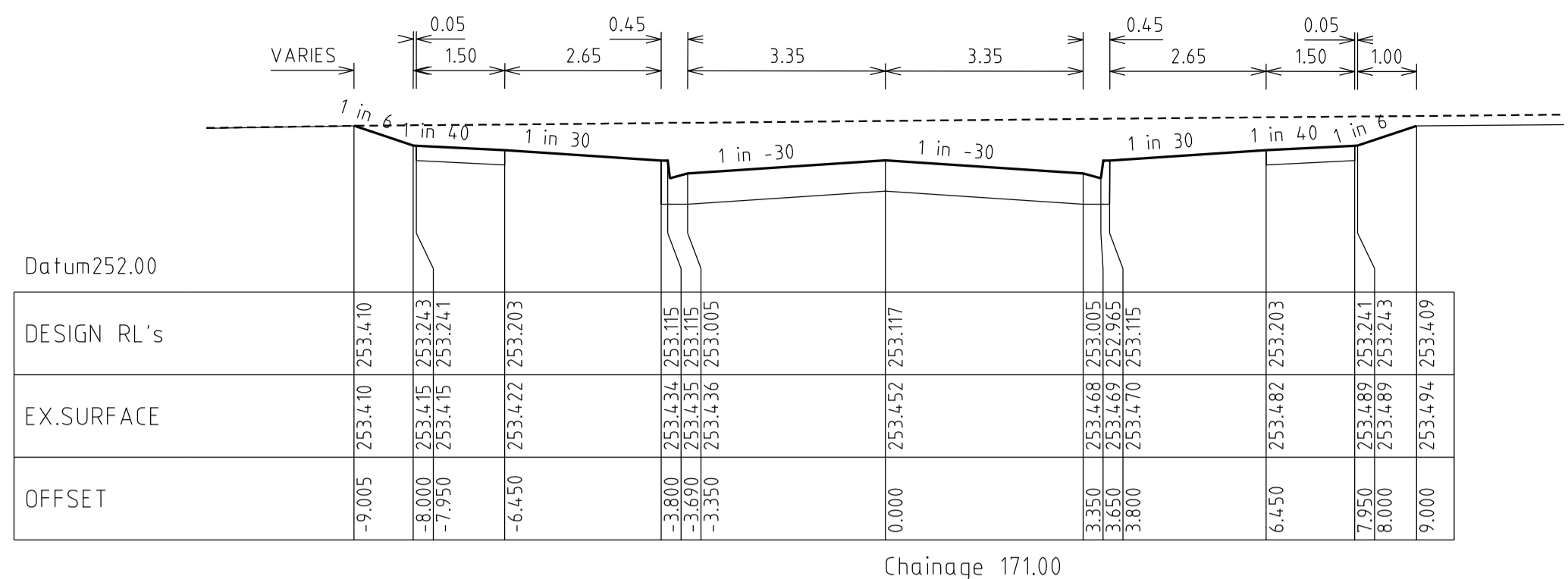
Chainage 130.50



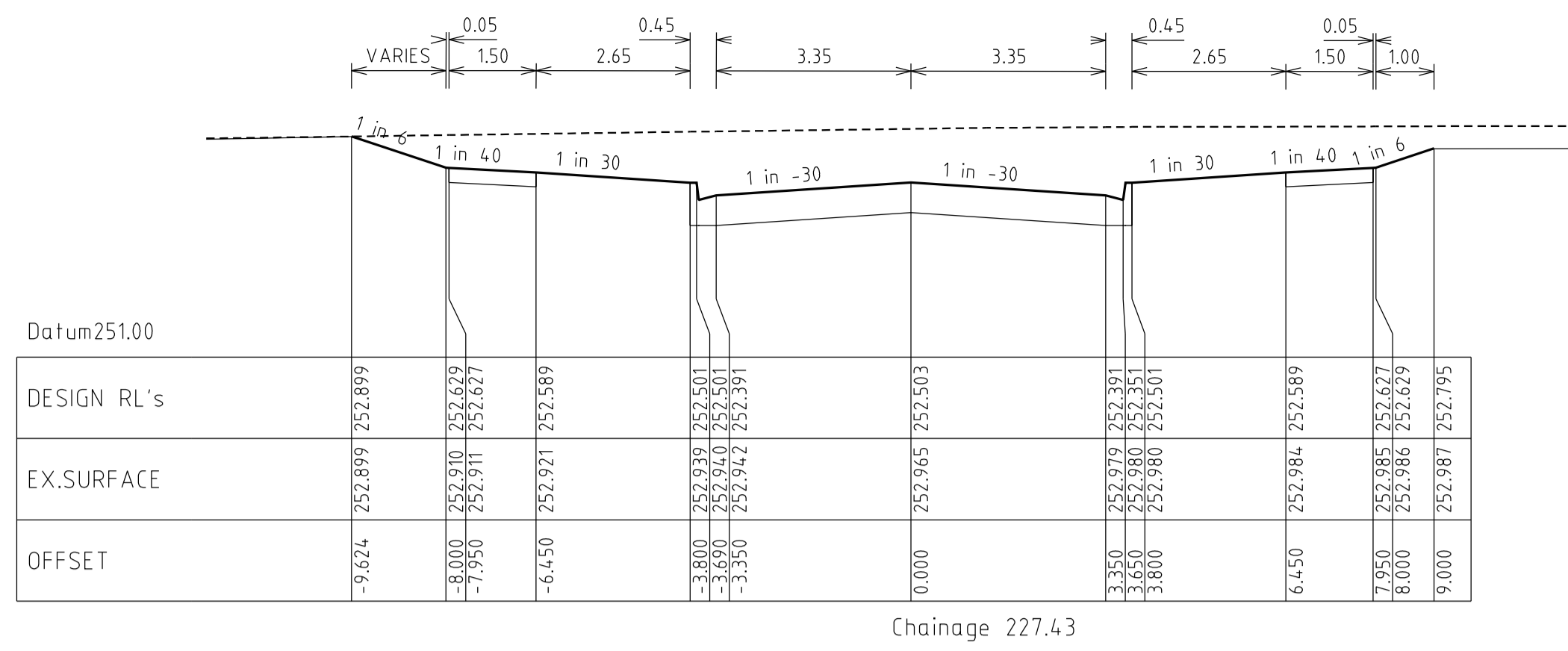
Chainage 126.93



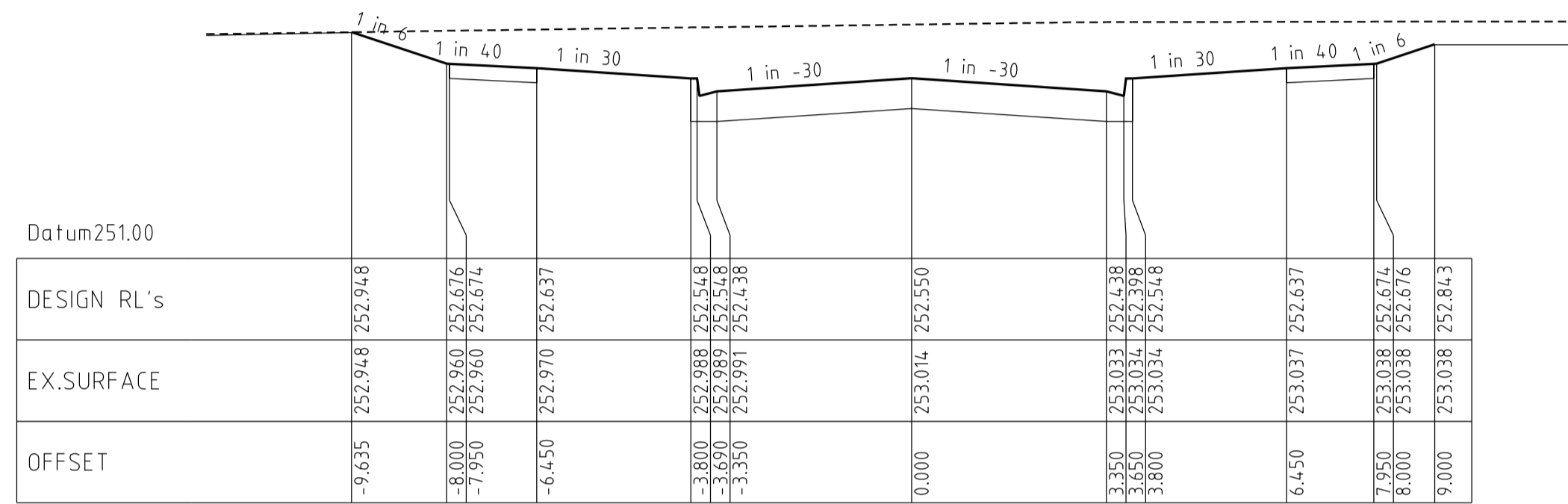
VERSION DETAILS						SCALE: AS SHOWN	MORNINGTON		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED: 15/10/2014	5 Main Street, Phone:031 5975 4644 Fax:031 5975 3916	TOWN PLANNERS CIVIL ENGINEERS SURVEYORS	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/8 R10
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	PROJECT No.: 36182/8	MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone:031 9697 8000 Fax:031 9697 8099	Project Managers Urban Designers Structural Engineers	REVELLE WAY CROSS SECTIONS		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DRAWN: C.M.B. DATE: MAY 2014	WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 589 613				SHEET 10 OF 24
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DESIGNED: Z.W.L. DATE: MAY 2014					
FILENAME: k:\36182\36182_8.dgn						AUTHORISED: A.S.C. DATE: MAY 2014					



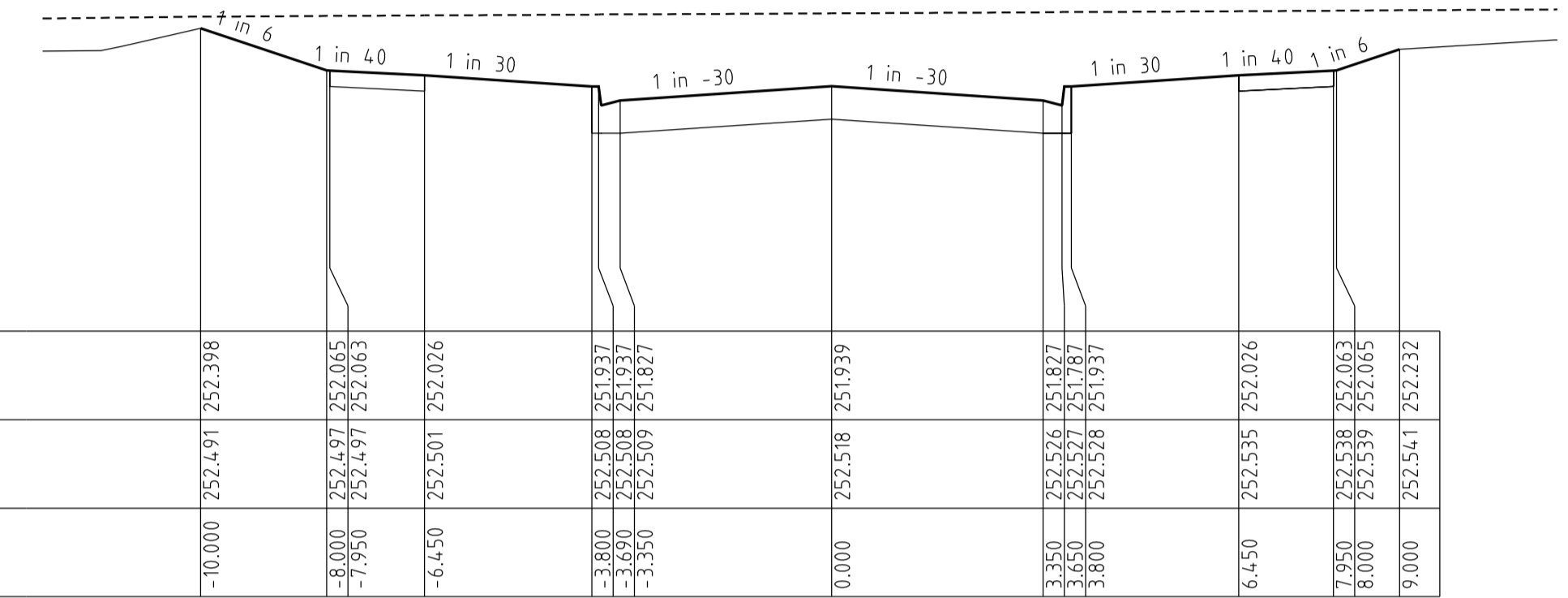
VERSION DETAILS						SCALE: AS SHOWN	MORNINGTON 5 Main Street, Phone:031 5975 4644 Fax:031 5975 3916		• TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS • Project Managers • Urban Designers • Structural Engineers		HUME CITY COUNCIL		PLAN NUMBER	
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED: 15/10/2014					URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 509 613		VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM	
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	PROJECT No.: 36182/8	REVELLIE WAY CROSS SECTIONS							
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DRAWN: C.M.B. DATE: MAY 2014								
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DESIGNED: Z.W.L. DATE: MAY 2014								
						AUTHORISED: A.S.C. DATE: MAY 2014								
FILENAME: k:\36182\36182_08.dgn\11.dgn											SHEET 11 OF 24			



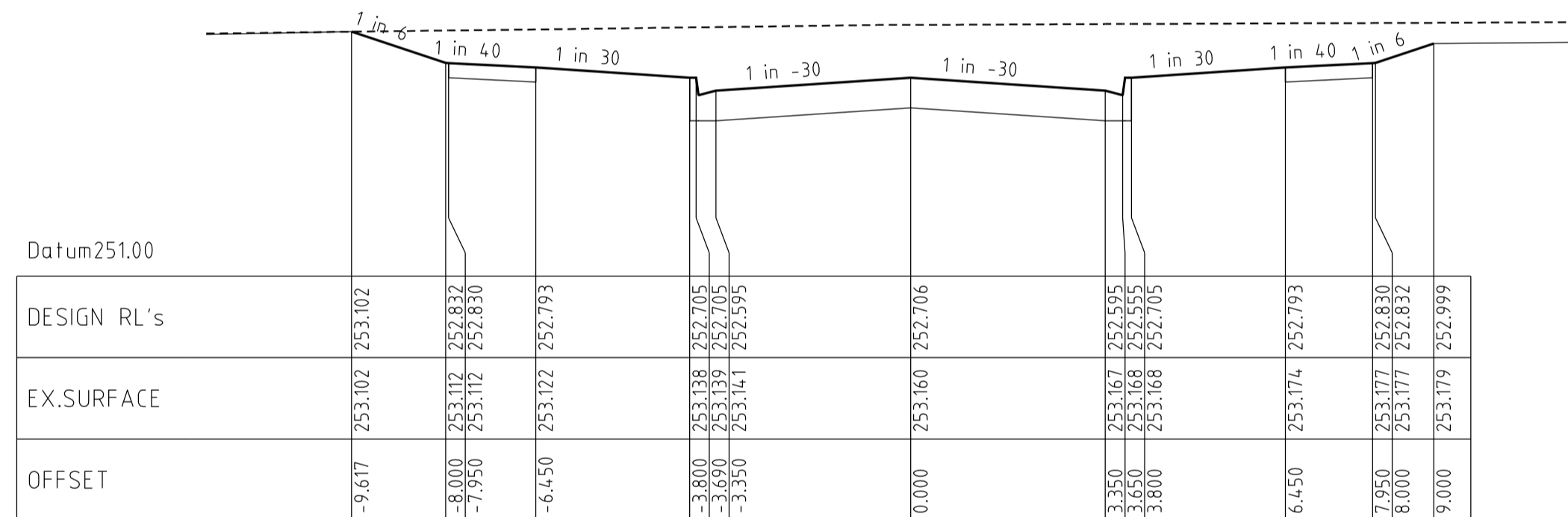
Chainage 227.43



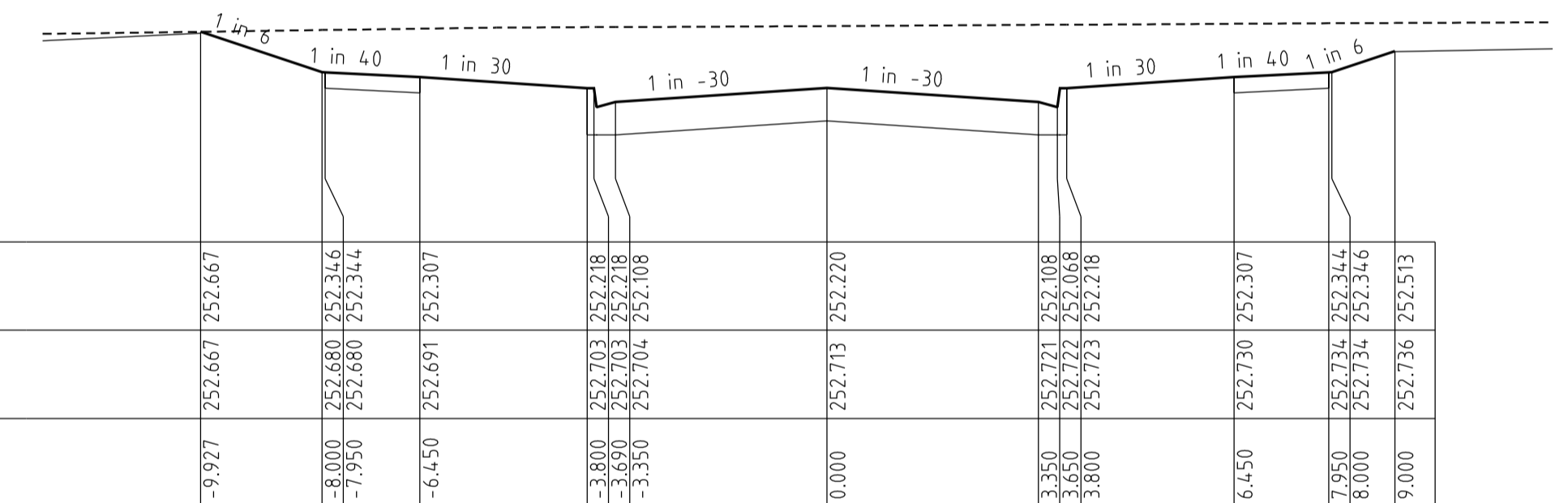
Chainage 224.00



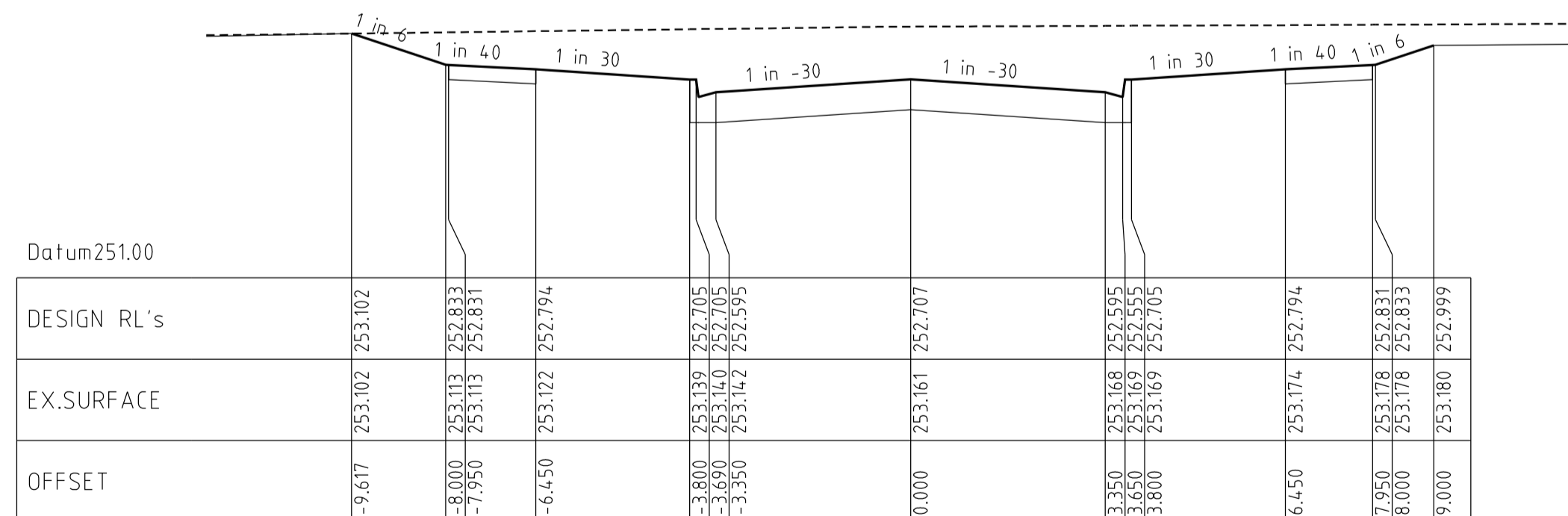
Chainage 255.63



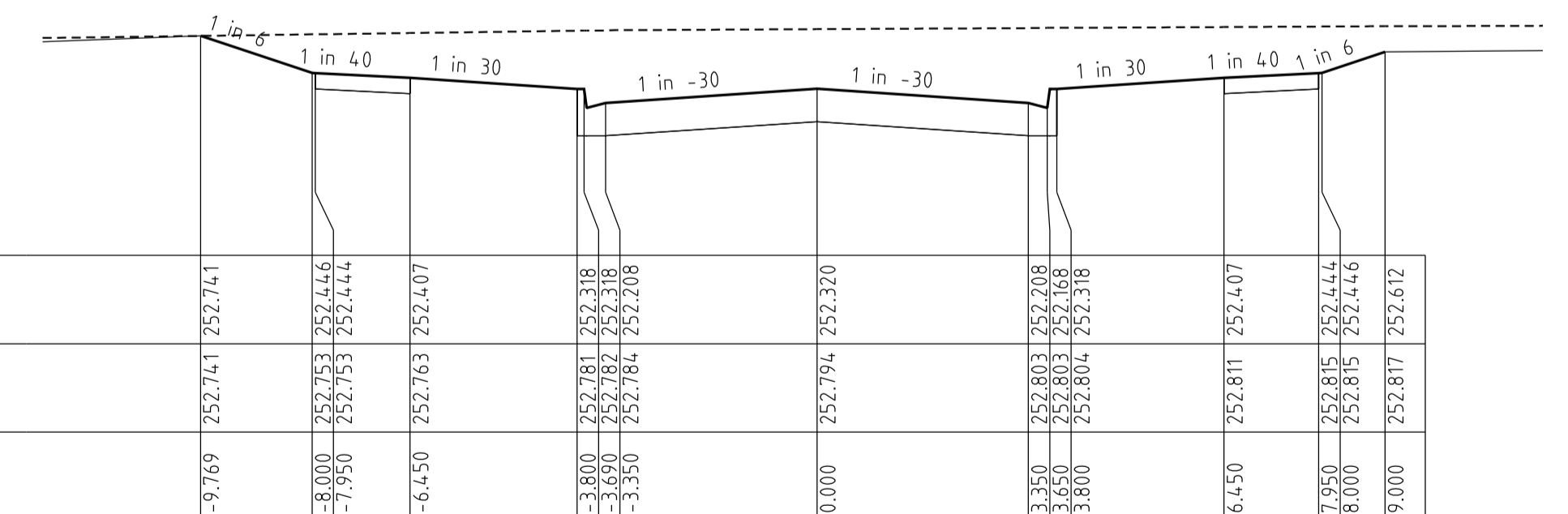
Chainage 210.00



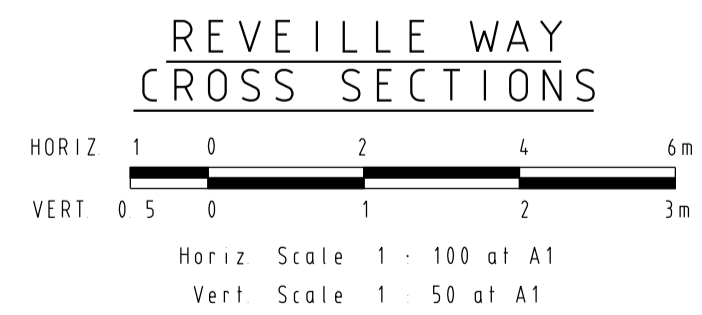
Chainage 243.48



Chainage 209.93



Chainage 238.43



VERSION DETAILS						SCALE:	HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	AS SHOWN	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/8 R12
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	DATE PRINTED: 15/10/2014	<ul style="list-style-type: none"> TOWN PLANNERS CIVIL ENGINEERS SURVEYORS 		 WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 589 613
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	LEVEL DATA: L1topo.dgn	<ul style="list-style-type: none"> Project Managers Urban Designers Structural Engineers 		
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DATUM: AHD	MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone:031 9697 8000 Fax:031 9697 8099		
FILENAME: k:\36182\36182...0.dgn\vr12.dgn						PROJECT No.: 36182/8	REVELLE WAY CROSS SECTIONS		
						DRAWN: C.M.B. DATE: MAY 2014			SHEET 12 OF 24
						DESIGNED: Z.W.L. DATE: MAY 2014			
						AUTHORISED: A.S.C. DATE: MAY 2014			

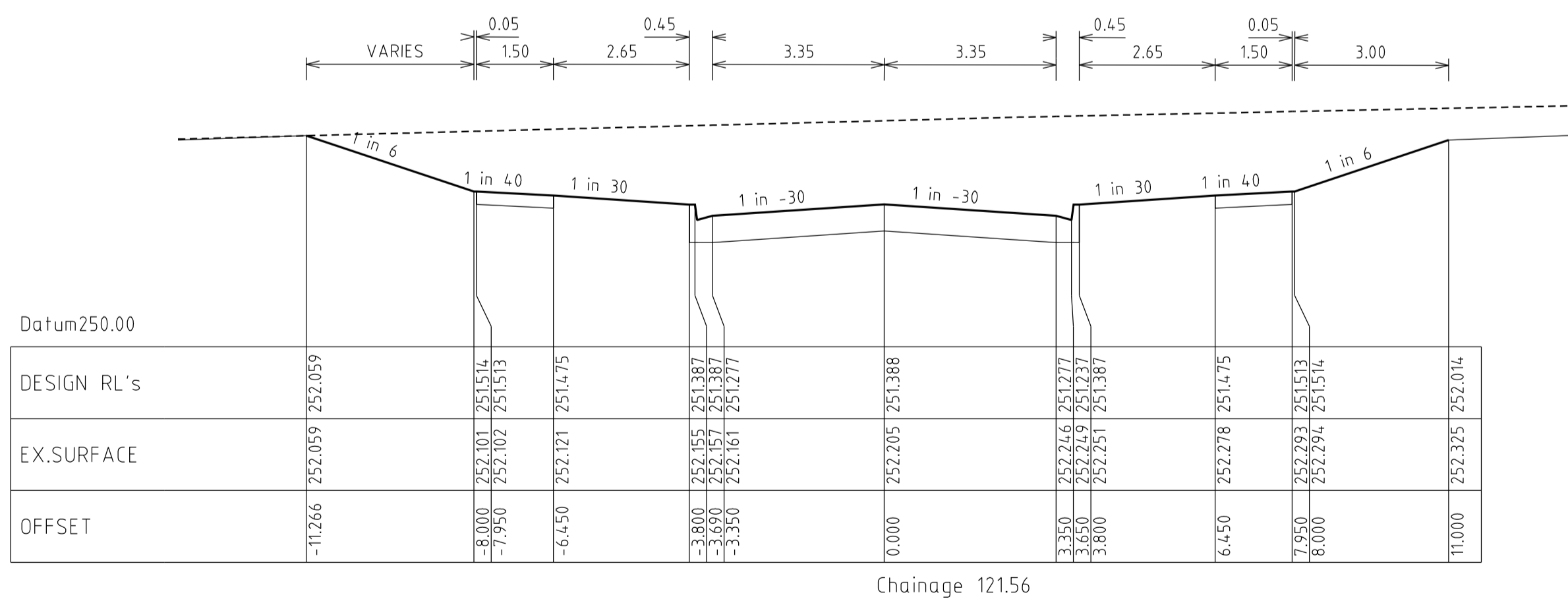
Horizontal Geometry
Vertical Grade
VC length

Datum RL246

CHAINAGES	DESIGN CENTRELINE	EXISTING SURFACE
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11.80	250.680	250.99
12.00	250.682	250.99
14.80	250.710	251.02
20.00	250.761	251.08
21.50	250.775	251.10
24.06	250.799	251.14
32.00	250.870	251.25
40.00	250.935	251.36
40.06	250.936	251.36
42.00	250.951	251.39
42.50	250.954	251.39
54.06	251.036	251.53
55.00	251.042	251.54
60.00	251.074	251.54
65.50	251.106	251.57
66.56	251.112	251.58
72.00	251.140	251.65
74.20	251.151	251.67
80.00	251.180	251.74
97.80	251.269	251.95
100.00	251.280	251.97
108.00	251.320	252.06
109.06	251.326	252.07
120.00	251.381	252.19
120.50	251.383	252.20
121.56	251.386	252.20
131.00	251.436	252.26
135.56	251.458	252.27
140.00	251.481	252.29
143.50	251.498	252.30
148.06	251.521	252.31
154.20	251.552	252.32
160.00	251.581	252.34
177.80	251.670	252.38
180.00	251.681	252.38
188.56	251.724	252.37
190.00	251.731	252.37
200.00	251.781	252.37
202.56	251.794	252.37
220.00	251.881	252.36
240.00	251.981	252.32
260.00	252.082	252.27
280.00	252.182	252.23
290.01	252.232	252.23

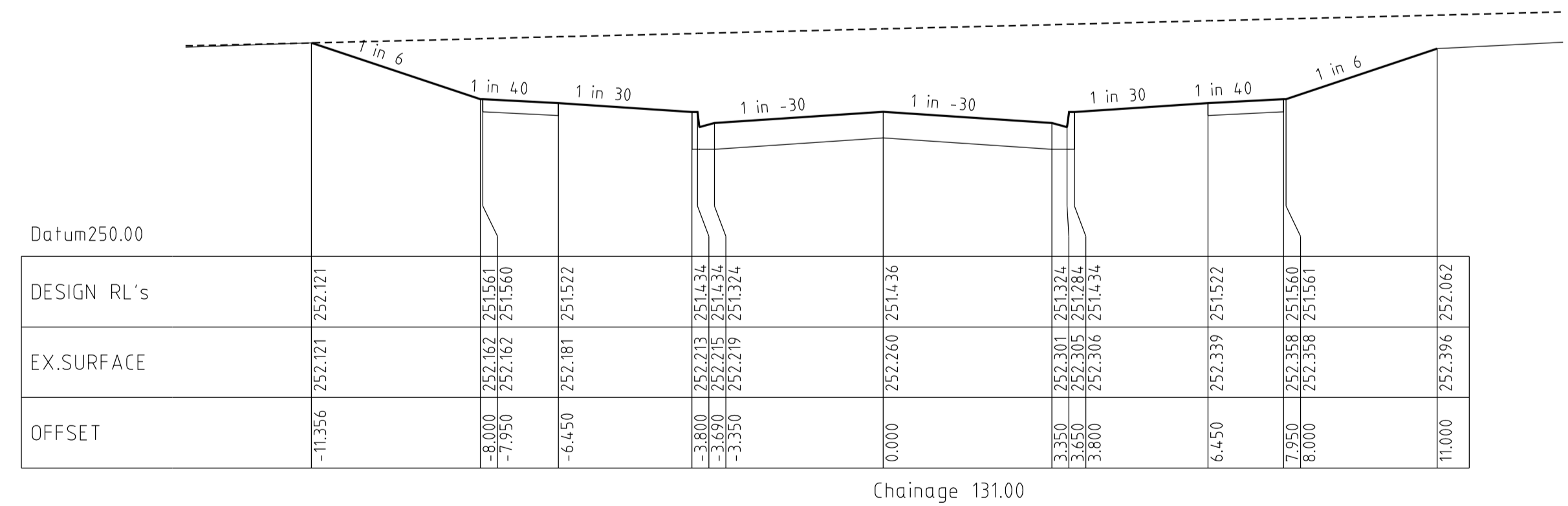
NEBULA CRESCENT
LONGITUDINAL SECTION

HORIZ 1 : 500 at A1
VERT 1 : 50 at A1

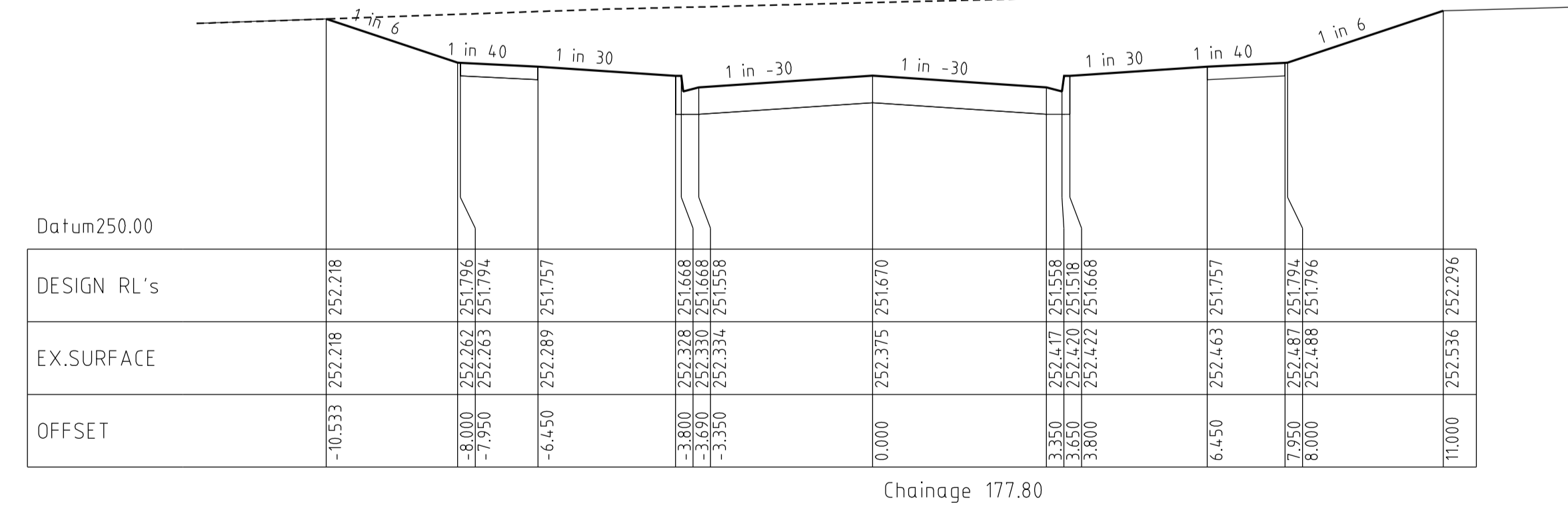
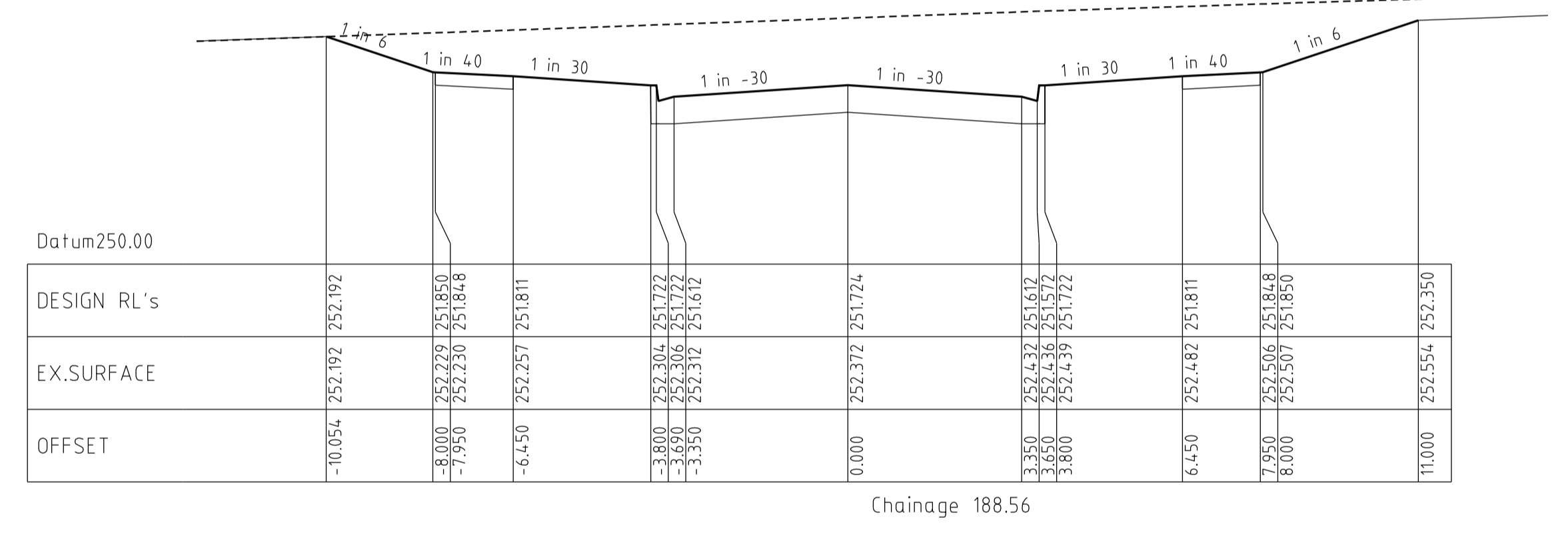
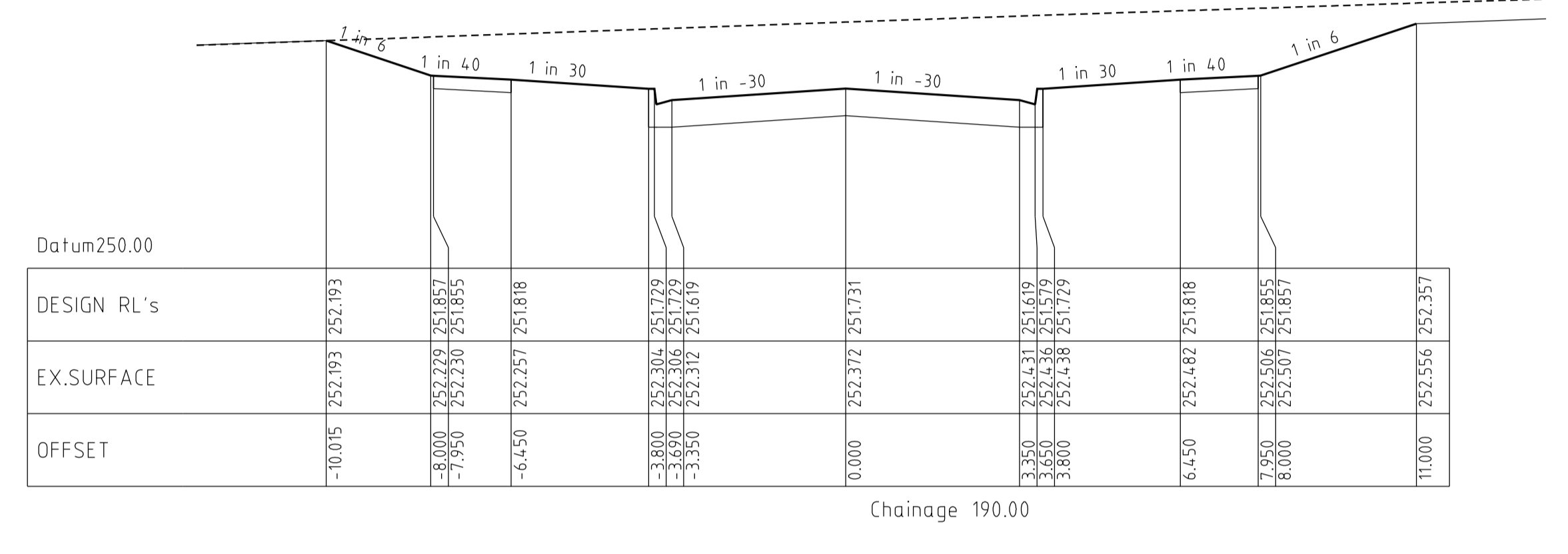
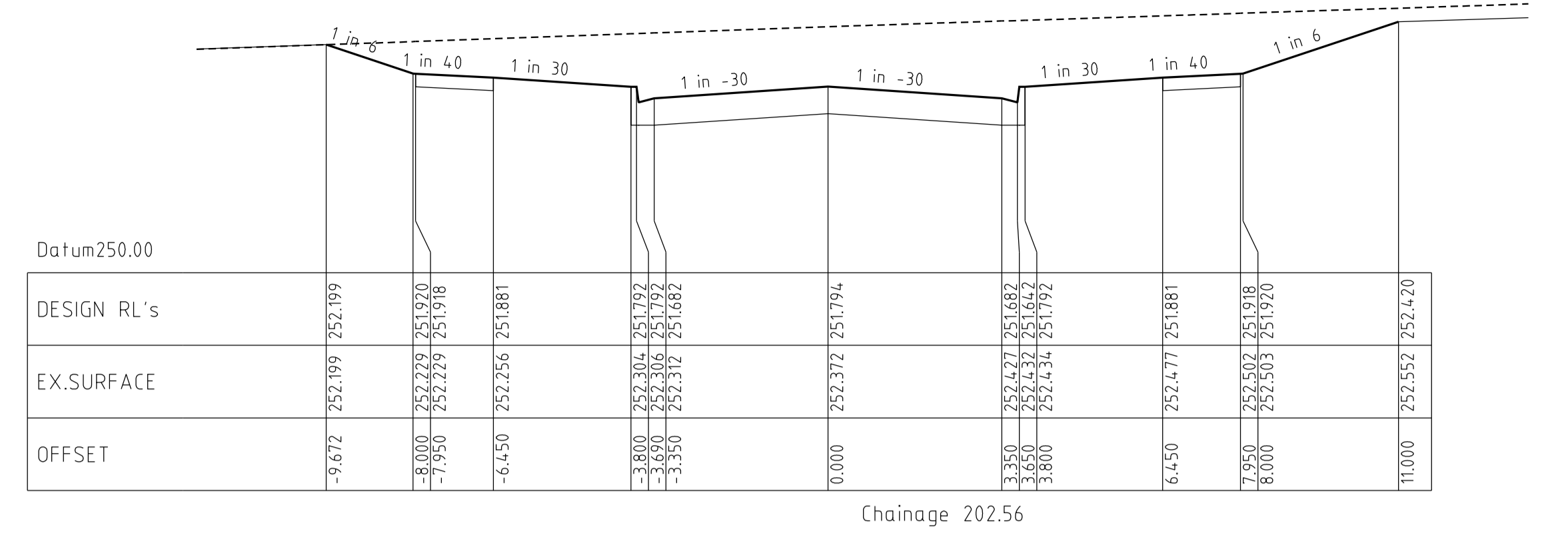
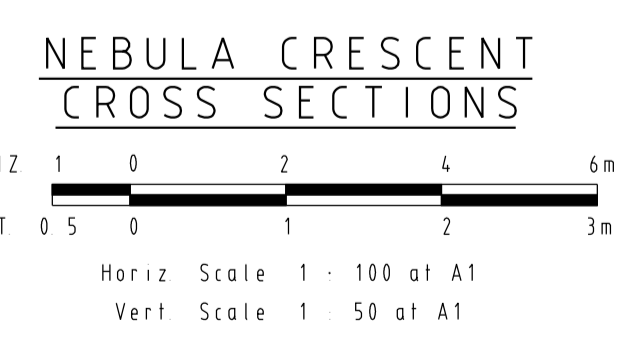
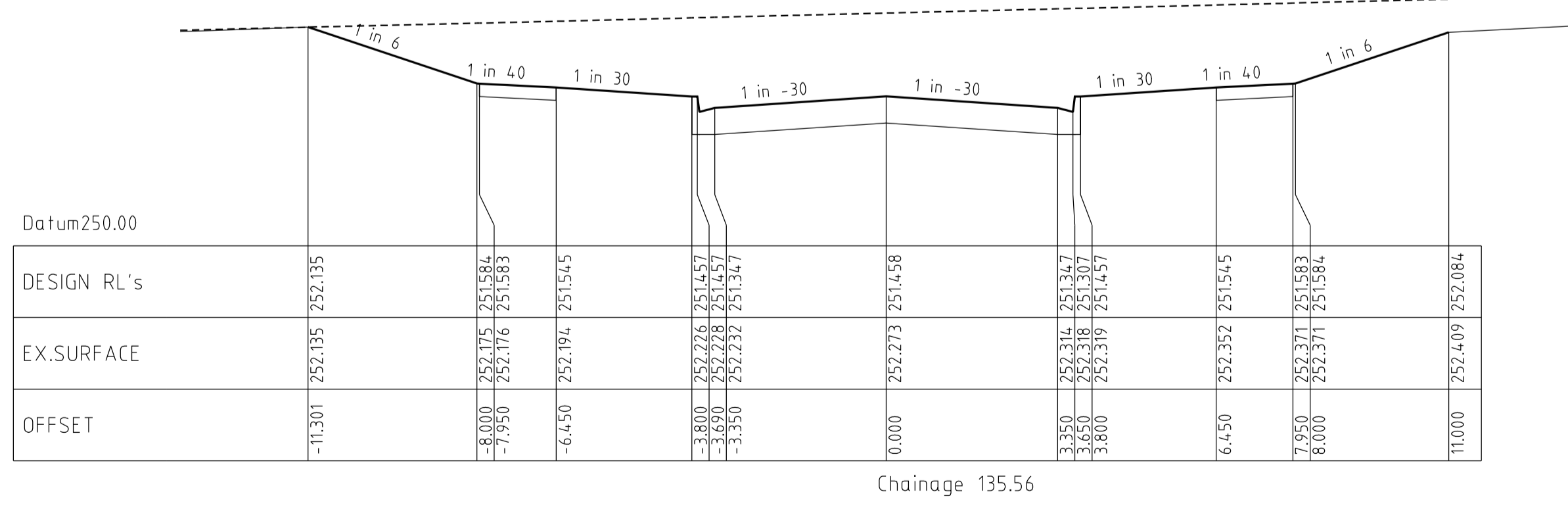
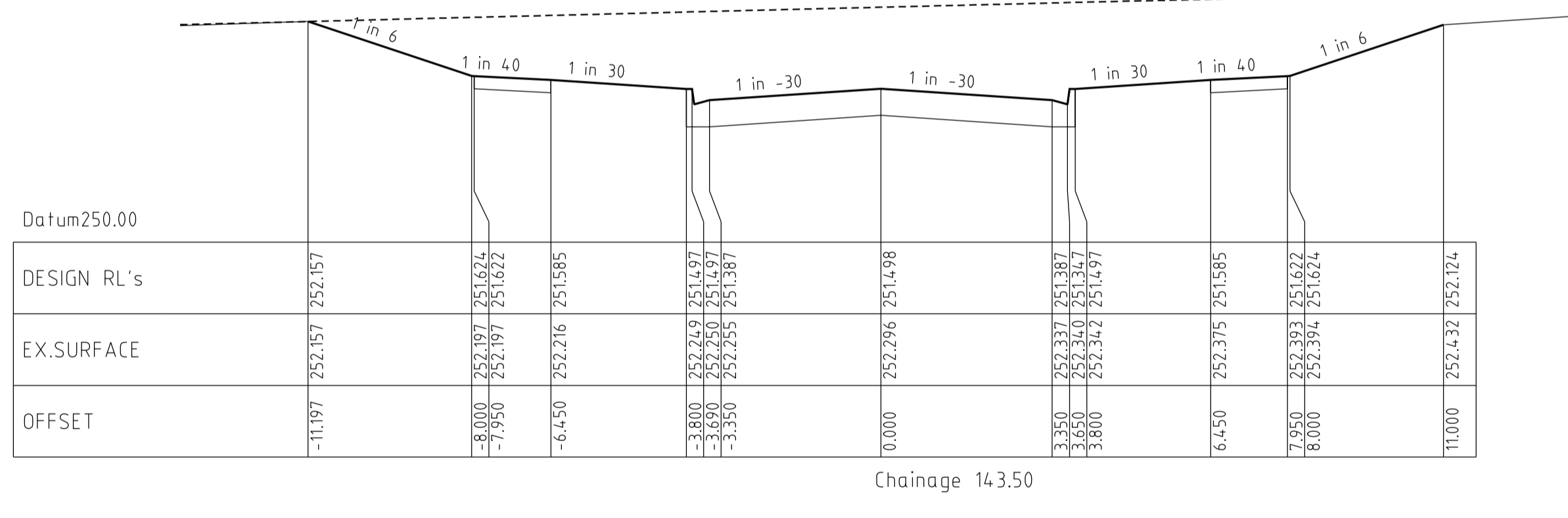
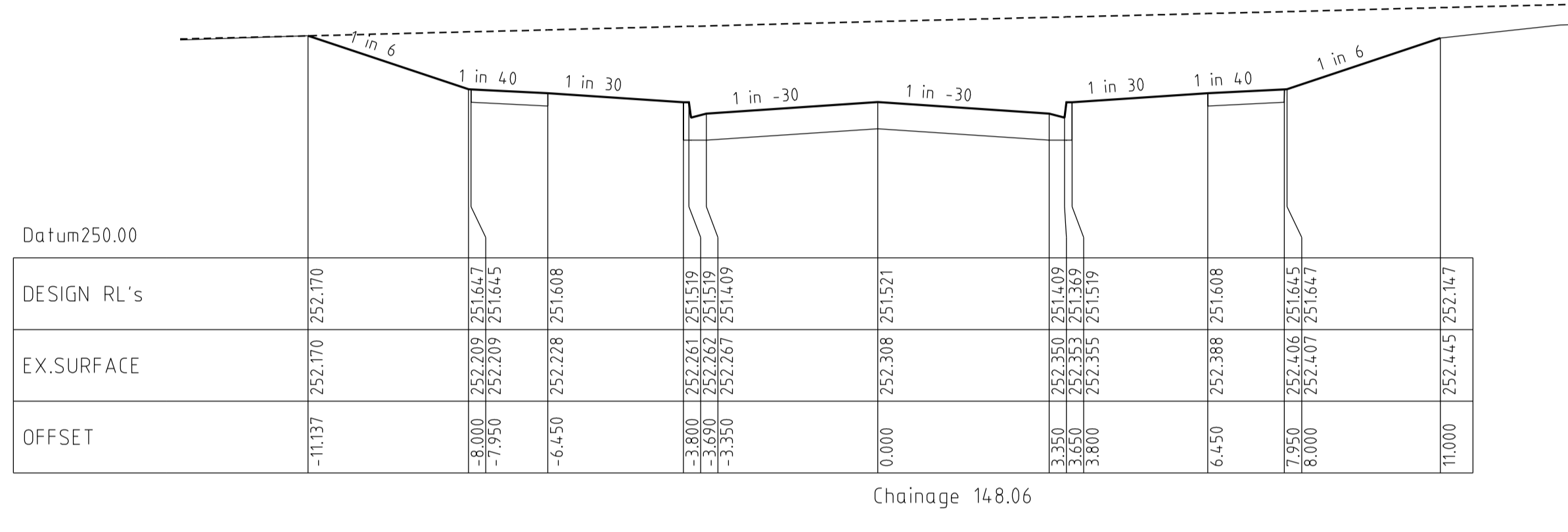
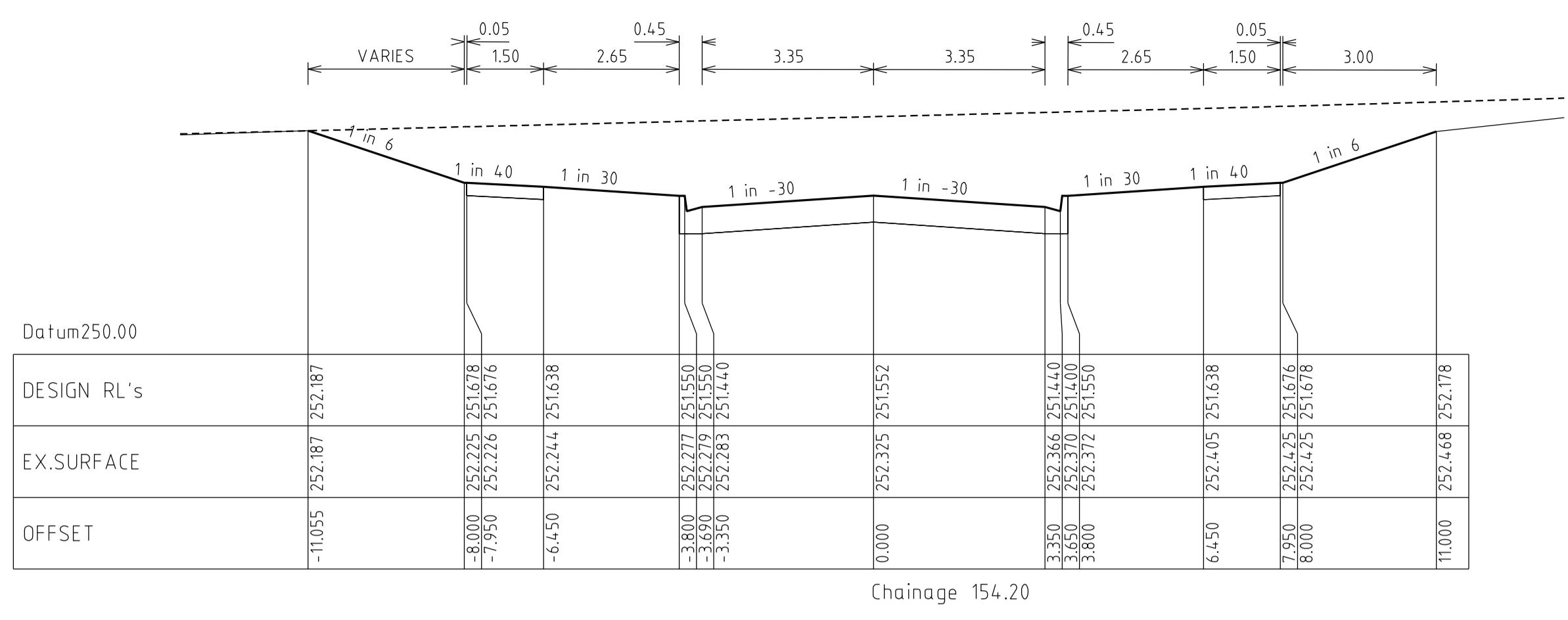


NEBULA CRESCENT
CROSS SECTIONS

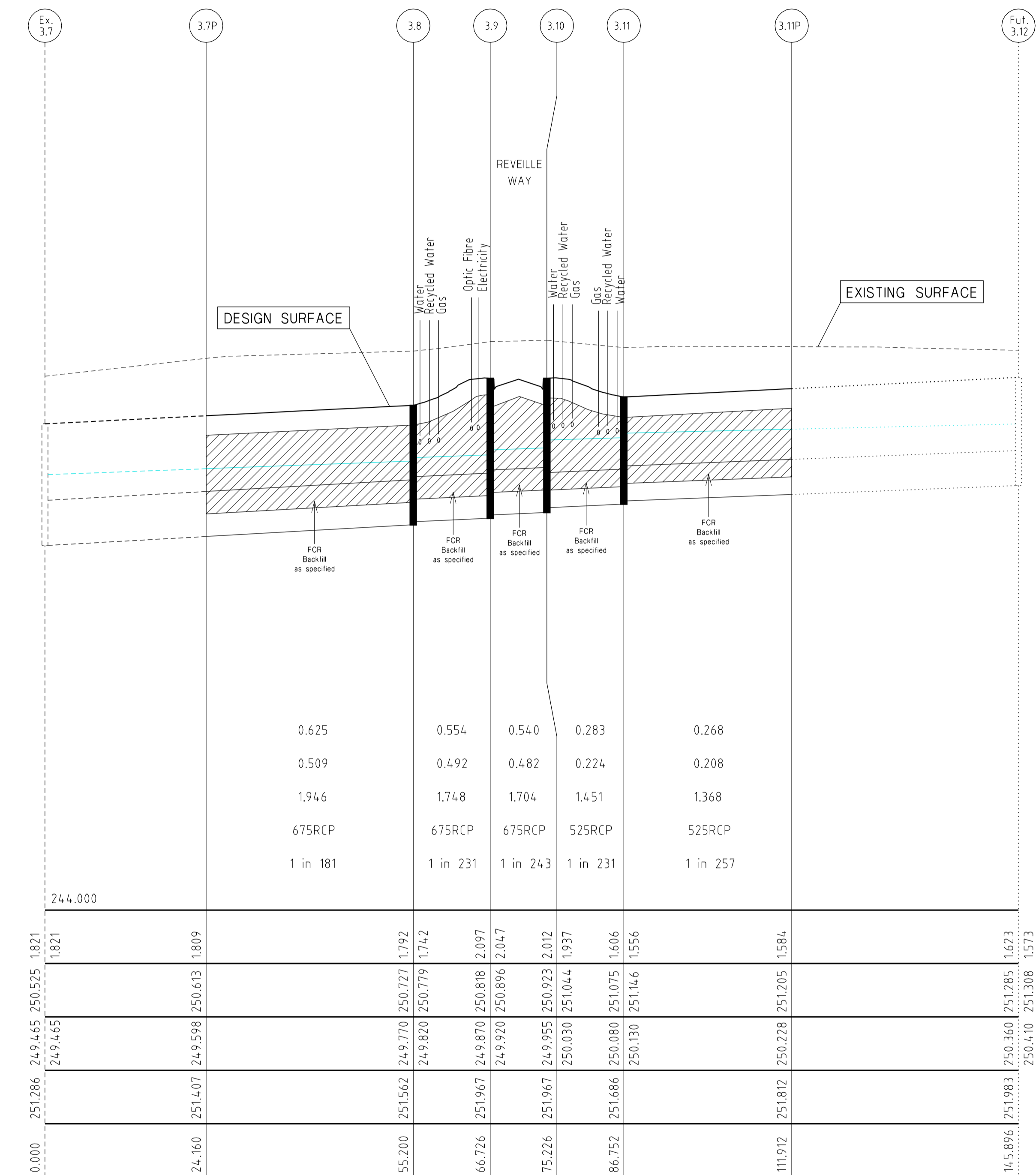
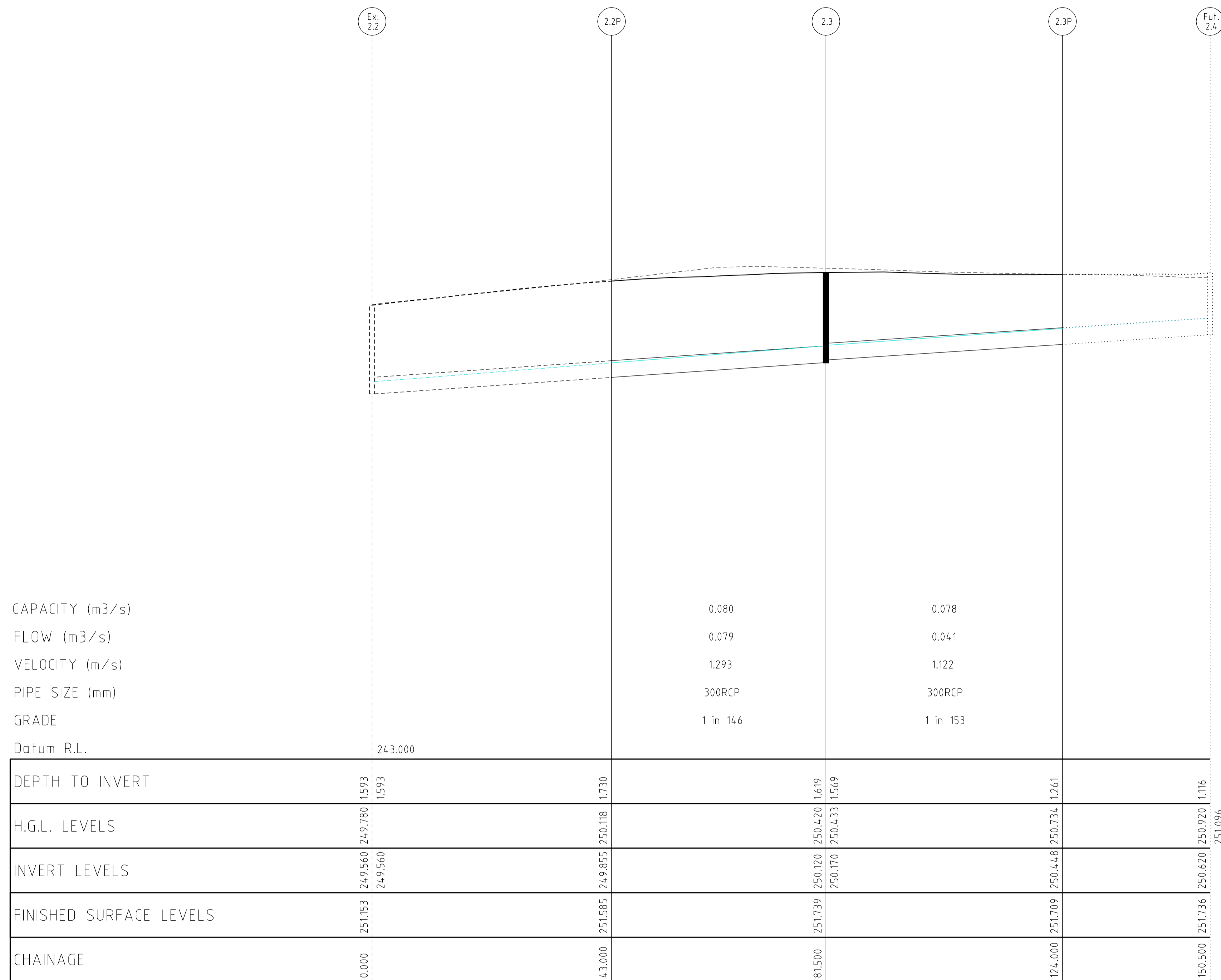
HORIZ 1 : 100 at A1
VERT 1 : 50 at A1



VERSION DETAILS						SCALE:	HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	AS SHOWN	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/8 R13
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	DATE PRINTED: 15/10/2014	• TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	LEVEL DATA: Ltopo.dgn	• Project Managers • Urban Designers • Structural Engineers		
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DATUM: AHD	WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 599 613		
FILENAME: k:\36182\36182...8.dgn\vr13.dgn						PROJECT No.: 36182/8	NEBULA CRESCENT LONGITUDINAL & CROSS SECTIONS		SHEET 13 OF 24
						DRAWN: C.M.B. DATE: MAY 2014			
						DESIGNED: Z.W.L. DATE: MAY 2014			
						AUTHORISED: A.S.C. DATE: MAY 2014			



VERSION DETAILS						SCALE: AS SHOWN		MORNINGTON		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	15/10/2014	5 Main Street, Phone:031 5975 4644 Fax:031 5975 3916	TOWN PLANNERS CIVIL ENGINEERS SURVEYORS	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/8 R14
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	PROJECT No.:	36182/8	MELBOURNE The Melbourne, Suite 2 Phone:031 9697 8000 Fax:031 9697 8099	Project Managers Urban Designers Structural Engineers	NEBULA CRESCENT CROSS SECTIONS		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAY 2014					SHEET 14 OF 24
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DESIGNED:	Z.W.L. DATE: MAY 2014					
FILENAME: k:\36182\36182_08.dgn v14.dgn						AUTHORISED:	A.S.C. DATE: MAY 2014	WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 589 613				



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

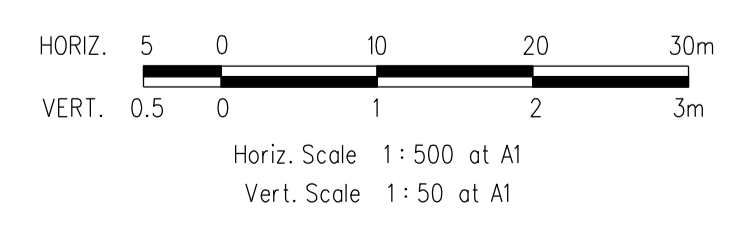
DEPTH TO INVERT	1.593		
H.G.L. LEVELS	249.780	250.420	250.920
INVERT LEVELS	249.560	250.120	250.620
FINISHED SURFACE LEVELS	251.153	251.739	251.736
CHAINAGE	0.000	81.500	150.500

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

DEPTH TO INVERT	1.821					
H.G.L. LEVELS	249.465	250.525	250.727	250.818	250.923	251.285
INVERT LEVELS	249.465	249.770	250.779	250.896	251.044	251.308
FINISHED SURFACE LEVELS	251.286	251.407	251.562	251.967	251.967	251.983
CHAINAGE	0.000	24.160	55.200	66.726	75.226	145.896

DRAINAGE LONGITUDINAL SECTIONS

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



VERSION DETAILS						SCALE: AS SHOWN	
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	15/10/2014
						LEVEL DATA:	Ltopo.dgn
						DATUM:	AHD
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	PROJECT No.:	36182/8
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAY 2014
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DESIGNED:	Z.W.L. DATE: MAY 2014
FILENAME: k:\36182\36182_8.dgn\vr15.dgn						AUTHORISED:	A.S.C. DATE: MAY 2014

MORNINGTON
 5 Main Street,
 Phone: (03) 5975 4644
 Fax: (03) 5975 3916

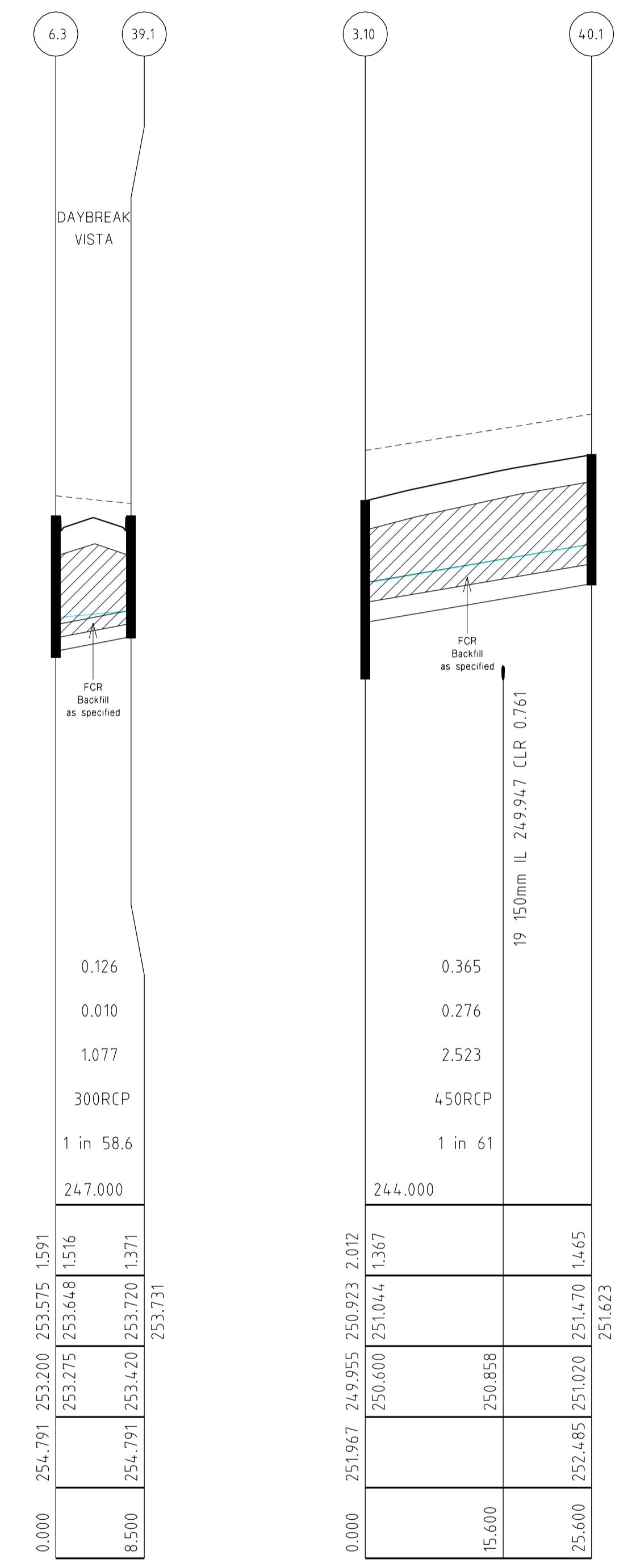
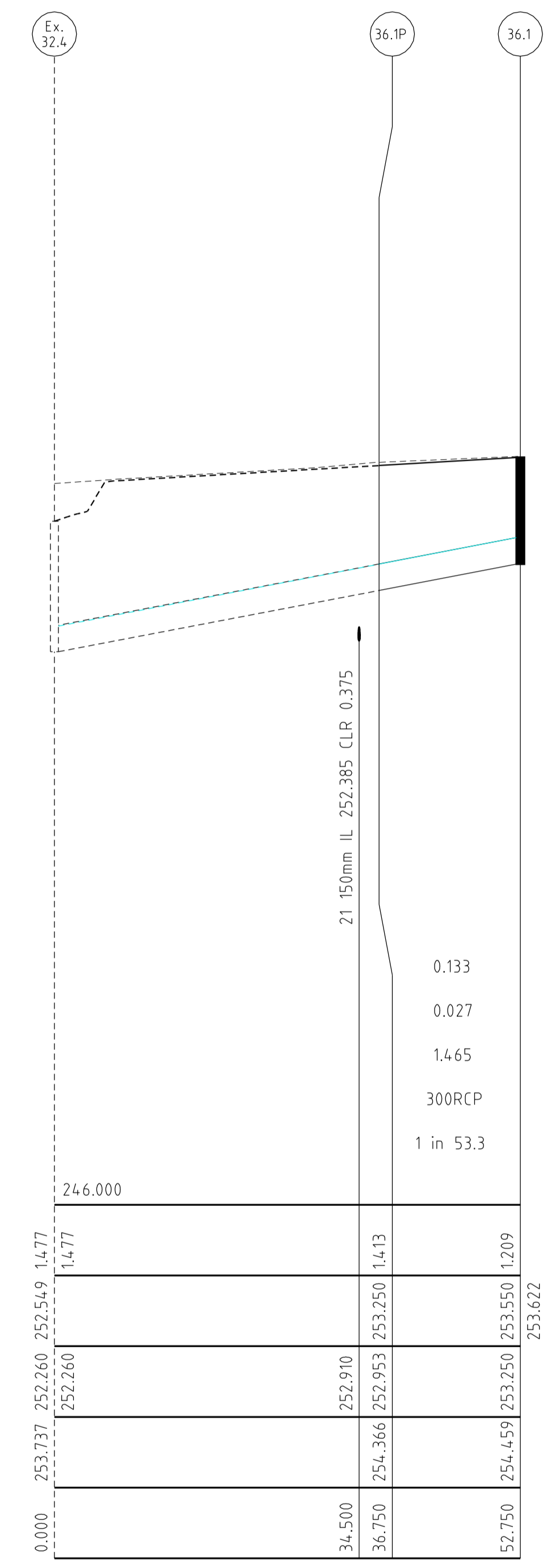
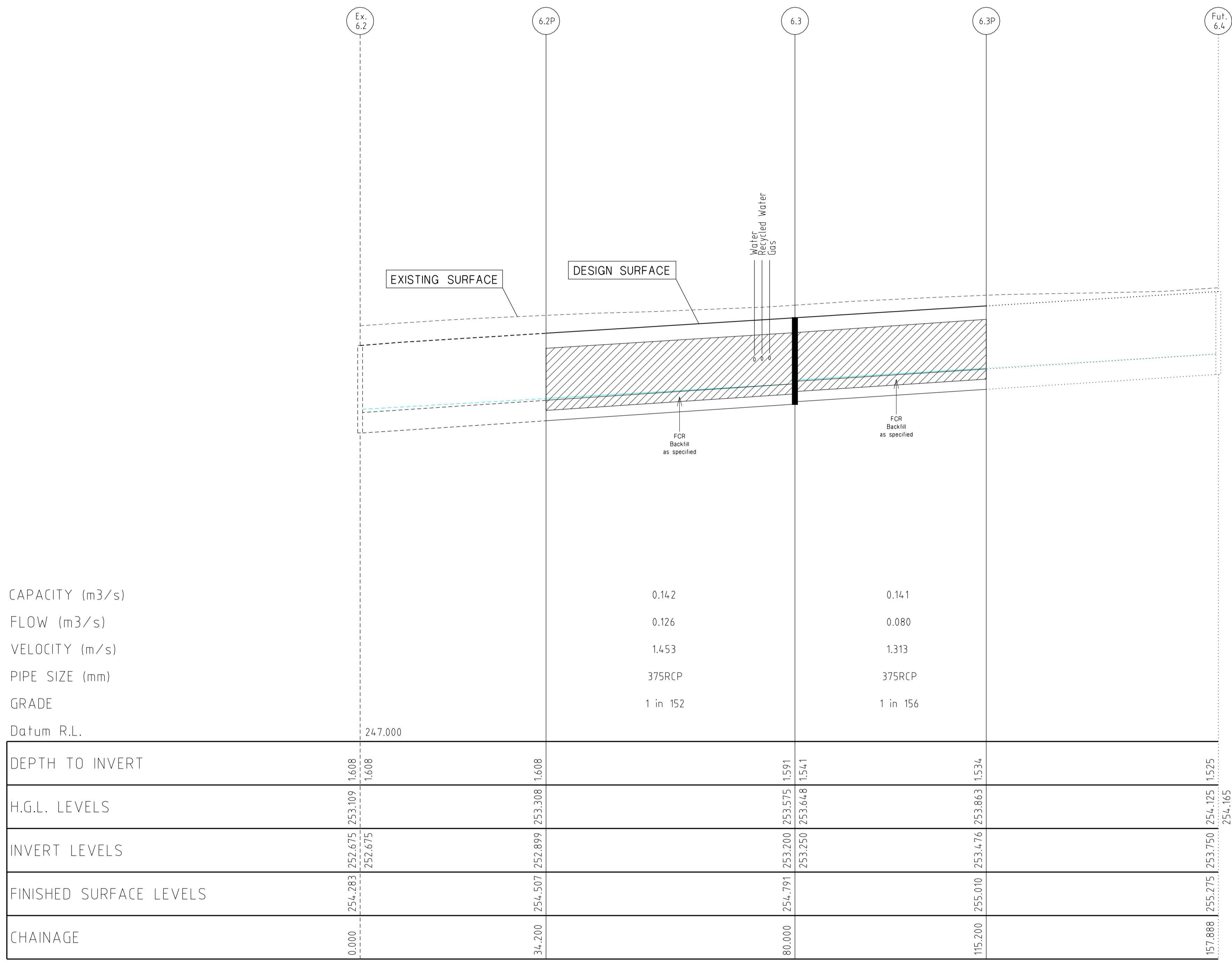
- TOWN PLANNERS
- CIVIL ENGINEERS
- SURVEYORS

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

- Project Managers
- Urban Designers
- Structural Engineers

WATSONS
 URBAN DEVELOPMENT
 CONSULTANTS & MANAGERS
 ABN 47 637 599 613

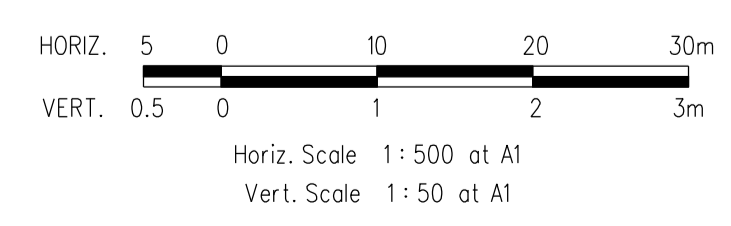
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/8 R15
DRAINAGE LONGITUDINAL SECTION		REVISION C
		SHEET 15 OF 24



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

DRAINAGE LONGITUDINAL SECTIONS

NOTE:
LOCATION OF GAS, WATER,
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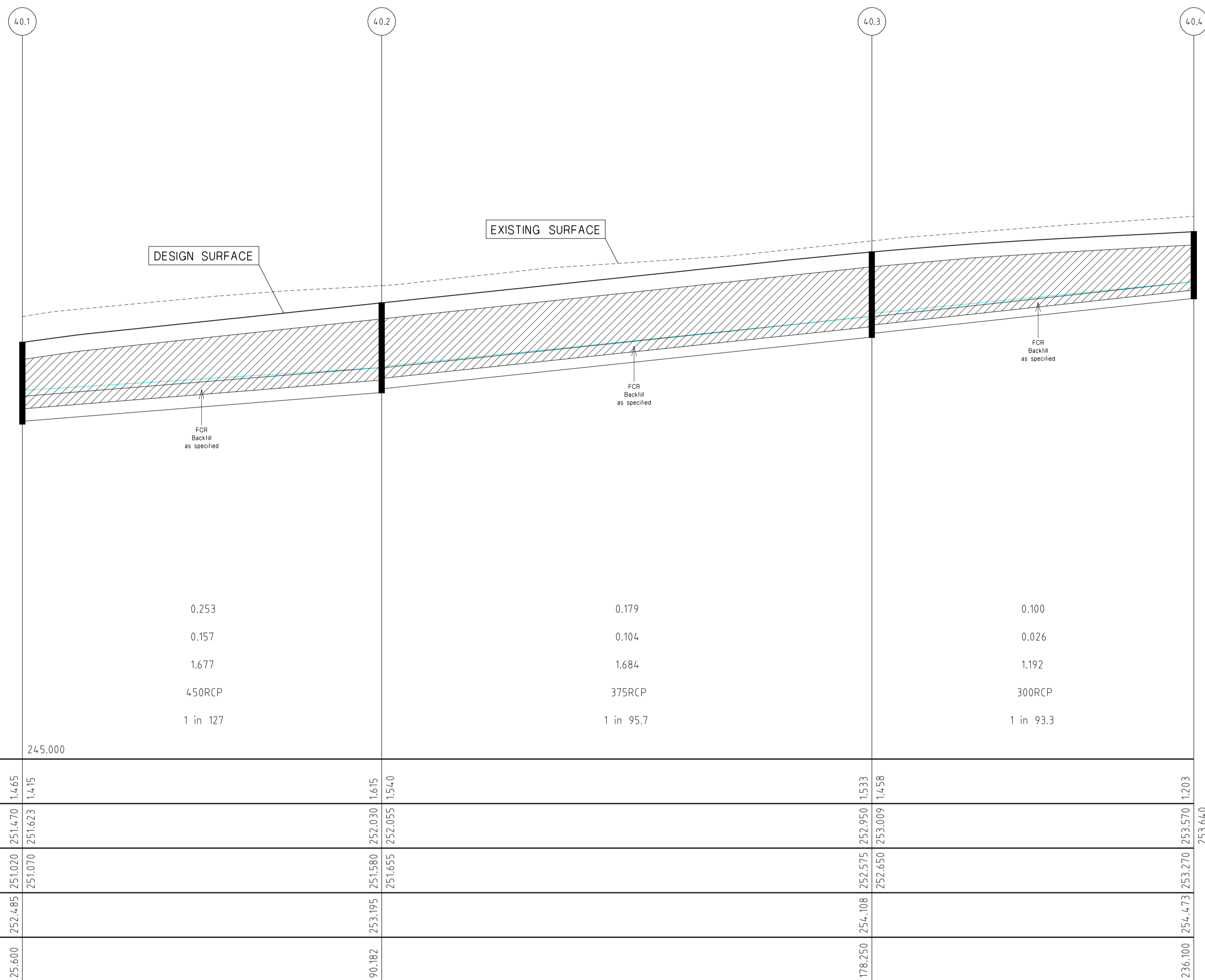
VERSION DETAILS					
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC

SCALE:	AS SHOWN
DATE PRINTED:	15/10/2014
LEVEL DATA:	Ltopo.dgn
DATUM:	AHD
PROJECT No.:	36182/8
DRAWN:	C.M.B. DATE: MAY 2014
DESIGNED:	Z.W.L. DATE: MAY 2014
AUTHORISED:	A.S.C. DATE: MAY 2014

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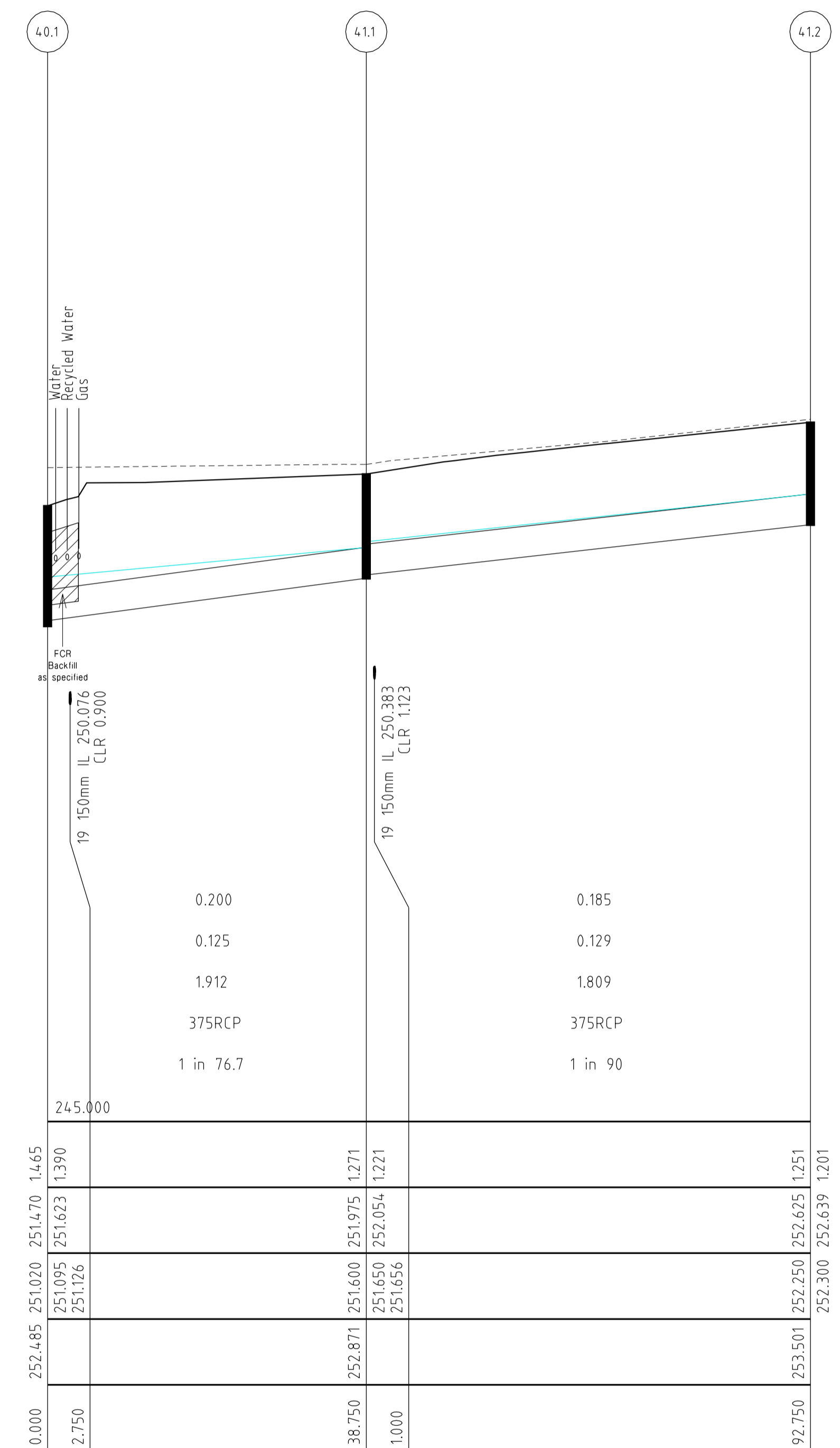


HUME CITY COUNCIL	PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/8 R16
DRAINAGE LONGITUDINAL SECTION	REVISION C
	SHEET 16 OF 24



CAPACITY (m3/s)	0.253	0.179	0.100
FLOW (m3/s)	0.157	0.104	0.026
VELOCITY (m/s)	1.677	1.684	1.192
PIPE SIZE (mm)	450RCP	375RCP	300RCP
GRADE	1 in 127	1 in 95.7	1 in 93.3
Datum R.L.	245.000		

DEPTH TO INVERT	1.465	1.415	1.615	1.540	1.533	1.458	1.203
H.G.L. LEVELS	251.020	251.470	251.623	251.623	252.030	252.055	253.570
INVERT LEVELS	251.020	251.070	251.580	252.030	252.575	252.950	253.270
FINISHED SURFACE LEVELS	252.485	253.195	254.108	254.108	254.108	254.108	254.473
CHAINAGE	25.600	90.182	178.250	254.108	252.575	252.950	253.270

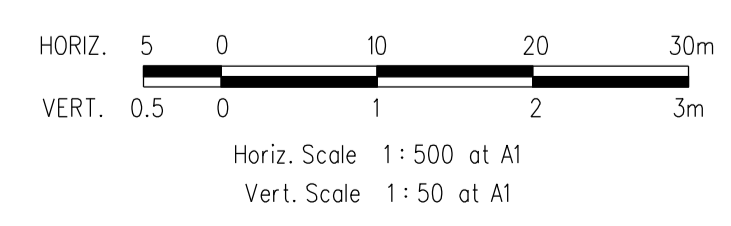


CAPACITY (m3/s)	0.200	0.185
FLOW (m3/s)	0.125	0.129
VELOCITY (m/s)	1.912	1.809
PIPE SIZE (mm)	375RCP	375RCP
GRADE	1 in 76.7	1 in 90
Datum R.L.	245.000	

DEPTH TO INVERT	1.465	1.201
H.G.L. LEVELS	251.020	252.625
INVERT LEVELS	251.020	252.250
FINISHED SURFACE LEVELS	252.485	253.501
CHAINAGE	25.600	92.750

NOTE:
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DRAINAGE LONGITUDINAL SECTIONS



VERSION DETAILS						SCALE: AS SHOWN	
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	15/10/2014
						LEVEL DATA:	Ltopo.dgn
						DATUM:	AHD
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	PROJECT No.:	36182/8
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAY 2014
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DESIGNED:	Z.W.L. DATE: MAY 2014
FILENAME: k:\36182\36182...8\dgn\vr17.dgn						AUTHORISED:	A.S.C. DATE: MAY 2014

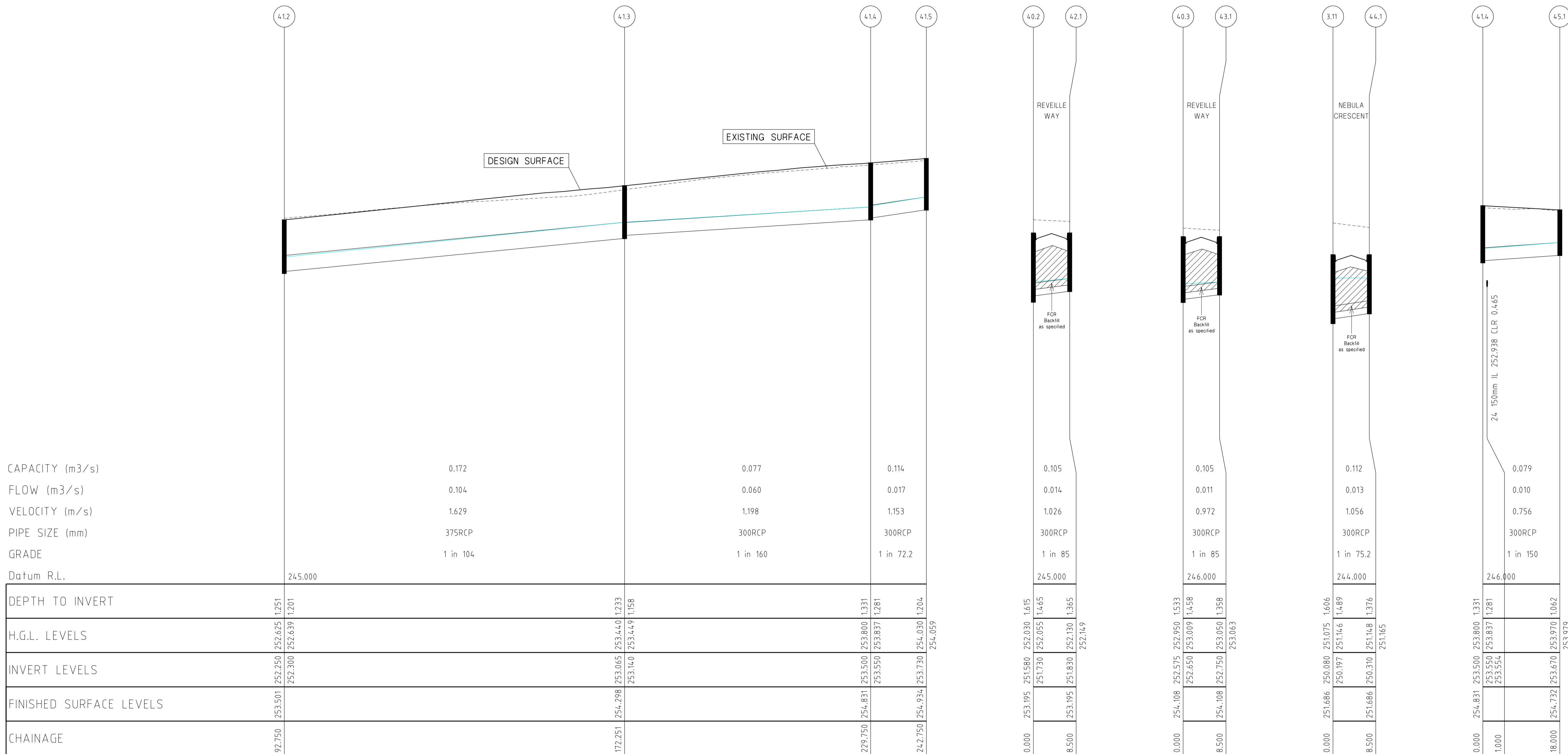
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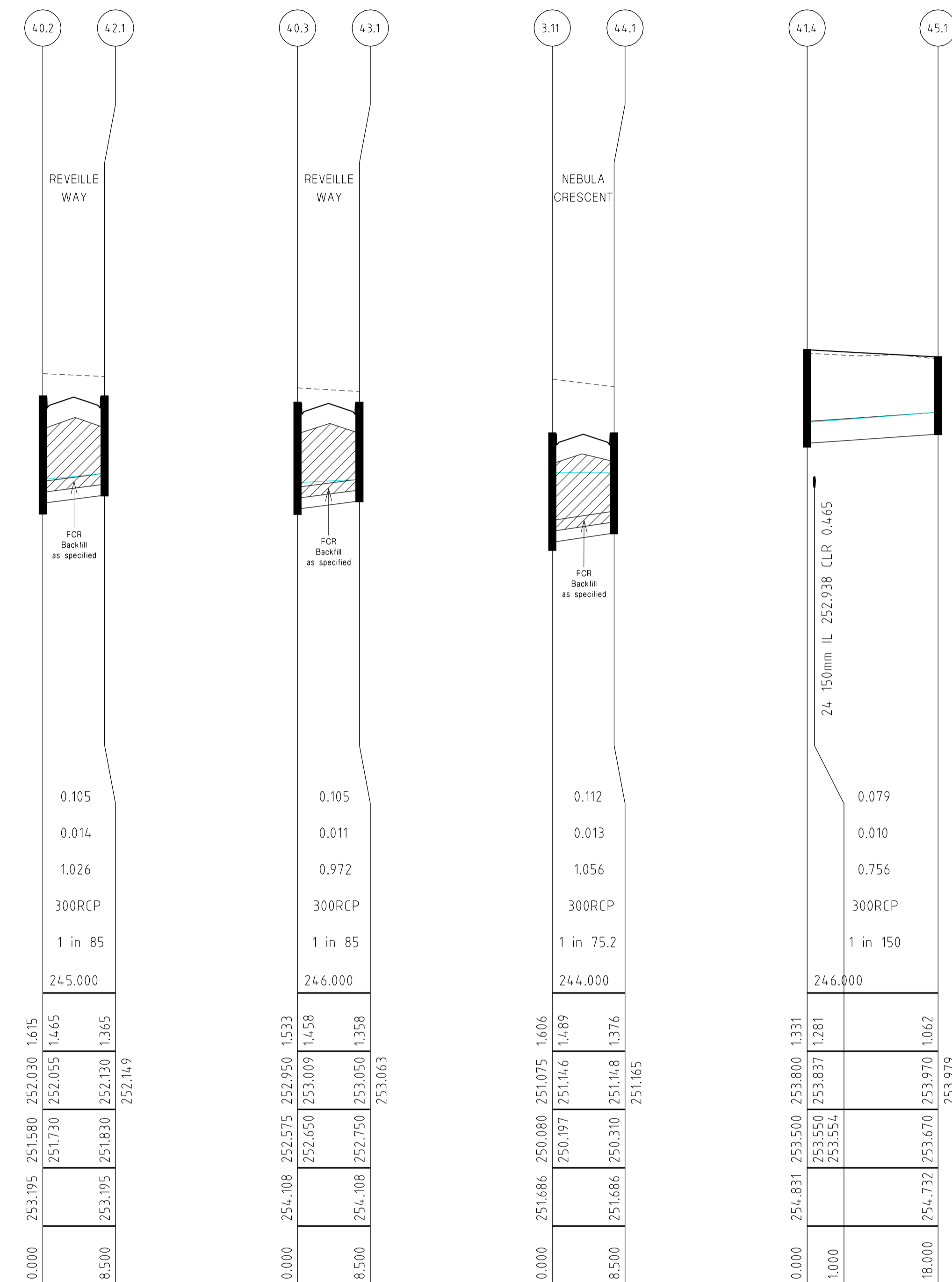


HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/8 R17
DRAINAGE LONGITUDINAL SECTION		REVISION
		SHEET 17 OF 24



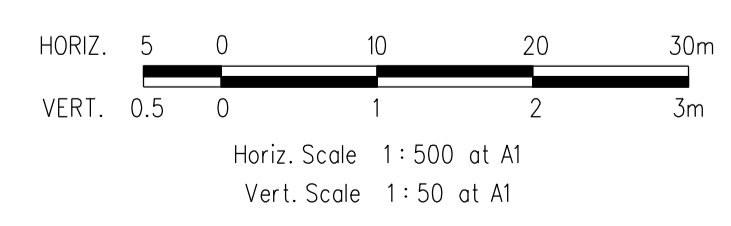
CAPACITY (m3/s)	0.172	0.077	0.114
FLOW (m3/s)	0.104	0.060	0.017
VELOCITY (m/s)	1.629	1.198	1.153
PIPE SIZE (mm)	375RCP	300RCP	300RCP
GRADE	1 in 104	1 in 160	1 in 72.2
Datum R.L.	245.000		

DEPTH TO INVERT	252.250 252.625 1.251 252.300 252.639 1.201	253.065 253.440 1.233 253.140 253.449 1.158	253.500 253.800 1.331 253.550 253.837 1.281	253.730 254.030 1.204 254.059
H.G.L. LEVELS				
INVERT LEVELS	253.501	254.298	254.831	254.934
FINISHED SURFACE LEVELS				
CHAINAGE	92.750	172.251	229.750	242.750



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

DRAINAGE LONGITUDINAL SECTIONS



VERSION DETAILS					
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC
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A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC

SCALE:	AS SHOWN
DATE PRINTED:	15/10/2014
LEVEL DATA:	Ltopo.dgn
DATUM:	AHD
PROJECT No.:	36182/8
DRAWN:	C.M.B. DATE: MAY 2014
DESIGNED:	Z.W.L. DATE: MAY 2014
AUTHORISED:	A.S.C. DATE: MAY 2014

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HUME CITY COUNCIL	PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/8 R18
DRAINAGE LONGITUDINAL SECTION	REVISION C
	SHEET 18 OF 24

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
Fut.2.4 JP	Future	3664.692	9938.26			300	250.62	251.736	1.116	Future Pit
2.3 P	-	3690.957	9934.739	300	250.448	300	250.448	251.709	1.261	End Copped (Future Pipe to Pipe Connection)
2.3 JP	900 x 600	3733.08	9929.091	300	250.17	300	250.12	251.739	1.619	GAA014; SD275(CIRCULAR PIT LID)
2.2 P	-	3771.239	9923.975	300	249.855	300	249.855	251.585	1.73	Pipe to Pipe Connection
Ex.2.2 JP	Existing	3813.857	9918.261	300	249.56			251.153	1.593	Existing Pit
Fut.3.12 JP	Future	3663.022	9982.121	525	250.41	525	250.36	251.983	1.623	Future Pit
3.11 P	-	3696.704	9977.605	525	250.228	525	250.228	251.812	1.584	End Copped (Future Pipe to Pipe Connection)
3.11 SEP	900 x 750	3721.641	9974.262	525	250.13	525	250.08	251.686	1.606	GAA012(HAUNCHED); SD275(CIRCULAR PIT LID)
				300	250.197			251.686	1.606	Line 44 Enters
3.10 SEP	900 x 900	3730.802	9981.256	525	250.03	675	249.955	251.967	2.012	GAA012(HAUNCHED); SD275(CIRCULAR PIT LID)
				450	250.6			251.967	2.012	Line 40 Enters
3.9 SEP	900 x 900	3739.226	9980.127	675	249.92	675	249.87	251.967	2.097	GAA012(HAUNCHED); SD275(CIRCULAR PIT LID)
3.8 JP	900 x 900	3746.221	9970.966	675	249.82	675	249.77	251.562	1.792	GAA014(HAUNCHED); SD275(CIRCULAR PIT LID)
3.7 P	-	3776.986	9966.841	675	249.598	675	249.598	251.407	1.809	Pipe to Pipe Connection
Ex.3.7 SEP	Existing	3800.932	9963.631	675	249.465			251.286	1.821	Existing Pit
Fut.6.4 SEP	Future	3679.981	10249.673			375	253.75	255.275	1.525	Future Pit
6.3 P	-	3722.291	10244	375	253.476	375	253.476	255.01	1.534	End Copped (Future Pipe to Pipe Connection)
6.3 SEP	900 x 600	3757.179	10239.322	375	253.25	375	253.2	254.791	1.591	GAA012; SD275(CIRCULAR PIT LID)
				300	253.275			254.791	1.591	Line 39 Enters
6.2 P	-	3802.573	10233.236	375	252.899	375	252.899	254.507	1.608	Pipe to Pipe Connection
Ex.6.2 SEP	Existing	3836.469	10228.692	375	252.675			254.283	1.608	Existing Pit
36.1 JP	900 x 600	3786.518	10191.752			300	253.25	254.459	1.209	GAA014; SD275(CIRCULAR PIT LID)
36.1 P	-	3802.376	10189.626	300	252.953	300	252.953	254.366	1.413	Pipe to Pipe Connection
Ex.32.4 JP	Existing	3838.8	10184.742	300	252.26			253.737	1.477	Existing Pit
39.1 SEP	900 x 600	3756.049	10230.898			300	253.42	254.791	1.371	GAA012; SD275(CIRCULAR PIT LID)
40.4 JP	900 x 600	3762.176	10215.263			300	253.27	254.473	1.203	GAA014; SD275(CIRCULAR PIT LID)
40.3 SEP	900 x 600	3754.489	10157.925	300	252.65	375	252.575	254.108	1.533	GAA012; SD275(CIRCULAR PIT LID)
				300	252.65			254.108	1.533	Line 43 Enters
40.2 SEP	900 x 600	3742.786	10070.639	375	251.655	450	251.58	253.195	1.615	GAA012; SD275(CIRCULAR PIT LID)
				300	251.73			253.195	1.615	Line 42 Enters
40.1 JP	900 x 600	3734.204	10006.629	450	251.07	450	251.02	252.485	1.465	GAA014; SD275(CIRCULAR PIT LID); HEAVY DUTY LID - CLASS D
				375	251.095			252.485	1.465	Line 41 Enters
41.5 JP	900 x 600	3722.906	10213.97			300	253.73	254.934	1.204	GAA014; SD275(CIRCULAR PIT LID)
41.4 JP	900 x 600	3721.179	10201.085	300	253.55	300	253.5	254.831	1.331	GAA014; SD275(CIRCULAR PIT LID)
				300	253.55			254.831	1.331	Line 45 Enters
41.3 JP	900 x 600	3713.538	10144.095	300	253.14	375	253.065	254.298	1.233	GAA014; SD275(CIRCULAR PIT LID)
41.2 JP	900 x 600	3702.973	10065.3	375	252.3	375	252.25	253.501	1.251	GAA014; SD275(CIRCULAR PIT LID)
41.1 JP	900 x 600	3695.797	10011.779	375	251.65	375	251.6	252.871	1.271	GAA014; SD275(CIRCULAR PIT LID)

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
42.1 SEP	900 x 600	3751.21	10069.509			300	251.83	253.195	1.365	GAA012; SD275(CIRCULAR PIT LID)
43.1 SEP	900 x 600	3762.913	10156.796			300	252.75	254.108	1.358	GAA012; SD275(CIRCULAR PIT LID)
44.1 SEP	900 x 600	3720.512	9965.837			300	250.31	251.686	1.376	GAA012; SD275(CIRCULAR PIT LID)
45.1 JP	900 x 600	3739.019	10198.693			300	253.67	254.732	1.062	GAA014; SD275(CIRCULAR PIT LID)

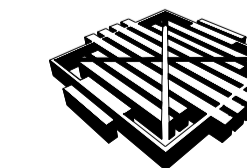
NOTE:

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

VERSION DETAILS						SCALE:	HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	AS SHOWN	VILLAWOOD PROPERTIES P/L		36182/8
						DATE PRINTED: 15/10/2014	TRILLIUM - STAGE 8		R19
						LEVEL DATA: L1topo.dgn	535 MOUNT RIDLEY ROAD		
						DATUM: AHD	MICKLEHAM		
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	PROJECT No.: 36182/8	DRAINAGE PIT SCHEDULE		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DRAWN: C.M.B. DATE: MAY 2014			SHEET 19 OF 24
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DESIGNED: Z.W.L. DATE: MAY 2014			
FILENAME: k:\36182\36182_8.dgn\19.dgn						AUTHORISED: A.S.C. DATE: MAY 2014			

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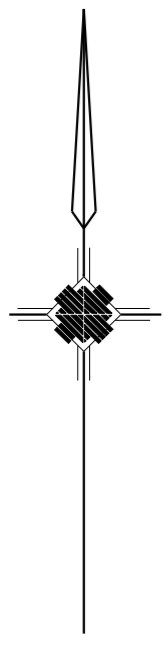
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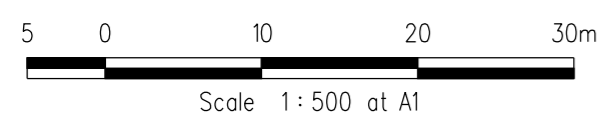
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• Project Managers
• Urban Designers
• Structural Engineers



LINEMARKING PLAN



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



VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	15/10/2014	VILLAWOOD PROPERTIES P/L		36182/8
						LEVEL DATA:	Ltopo.dgn	TRILLIUM - STAGE 8		R20
						DATUM:	AHD	535 MOUNT RIDLEY ROAD		
						PROJECT No.:	36182/8	MICKLEHAM		
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAY 2014	LINEMARKING & SIGNAGE PLAN		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DESIGNED:	Z.W.L. DATE: MAY 2014			SHEET 20 OF 24
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	AUTHORISED:	A.S.C. DATE: MAY 2014			

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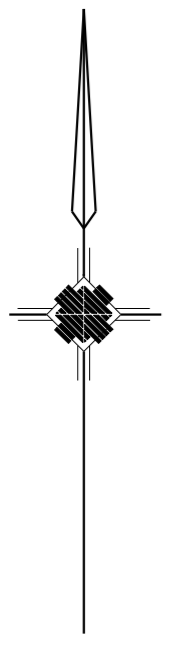
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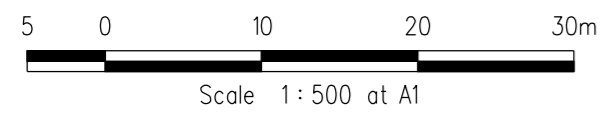


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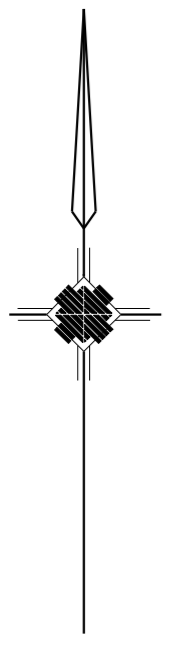
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 8 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/8 R20
LINEMARKING & SIGNAGE PLAN		REVISION C
		SHEET 20 OF 24



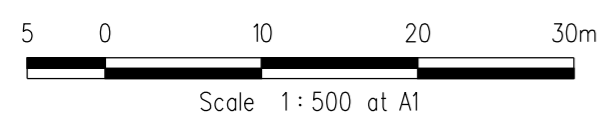
LINEMARKING PLAN



VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	LEVEL DATA:	VILLAWOOD PROPERTIES P/L		36182/8
						15/10/2014	Ltopo.dgn	TRILLIUM - STAGE 8		R 21
							AHD	535 MOUNT RIDLEY ROAD		
								MICKLEHAM		
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	PROJECT No.: 36182/8		PARKING PLAN		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DRAWN: C.M.B. DATE: MAY 2014				SHEET 21 OF 24
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DESIGNED: Z.W.L. DATE: MAY 2014				
FILENAME: k:\36182\36182_8\dgn\21.dgn						AUTHORISED: A.S.C. DATE: MAY 2014	MORNINGTON 5 Main Street, Phone(03) 5975 4644 Fax(03) 5975 3916 • TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone(03) 9697 8000 Fax(03) 9697 8099 • Project Managers • Urban Designers • Structural Engineers WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 437 509 613			



LINEMARKING 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

HOUSE DRAINS FOR LOTS 810 - 823 TO BE BUILT OFF EXISTING DRAIN

HOUSE DRAINS FOR LOTS 810 - 823 TO BE BUILT OFF EXISTING DRAIN

HOUSE DRAINS FOR LOTS 810 - 823 TO BE BUILT OFF EXISTING DRAIN

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
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VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	15/10/2014	VILLAWOOD PROPERTIES P/L		36182/8
						LEVEL DATA:	Ltopo.dgn	TRILLIUM - STAGE 8		R22
						DATUM:	AHD	535 MOUNT RIDLEY ROAD		
						PROJECT No.:	36182/8	MICKLEHAM		
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAY 2014	TURNING TEMPLATES		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DESIGNED:	Z.W.L. DATE: MAY 2014			SHEET 22 OF 24
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	AUTHORISED:	A.S.C. DATE: MAY 2014			

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 ABN 47 437 509 613

HUME CITY COUNCIL

VILLAWOOD PROPERTIES P/L
 TRILLIUM - STAGE 8
 535 MOUNT RIDLEY ROAD
 MICKLEHAM

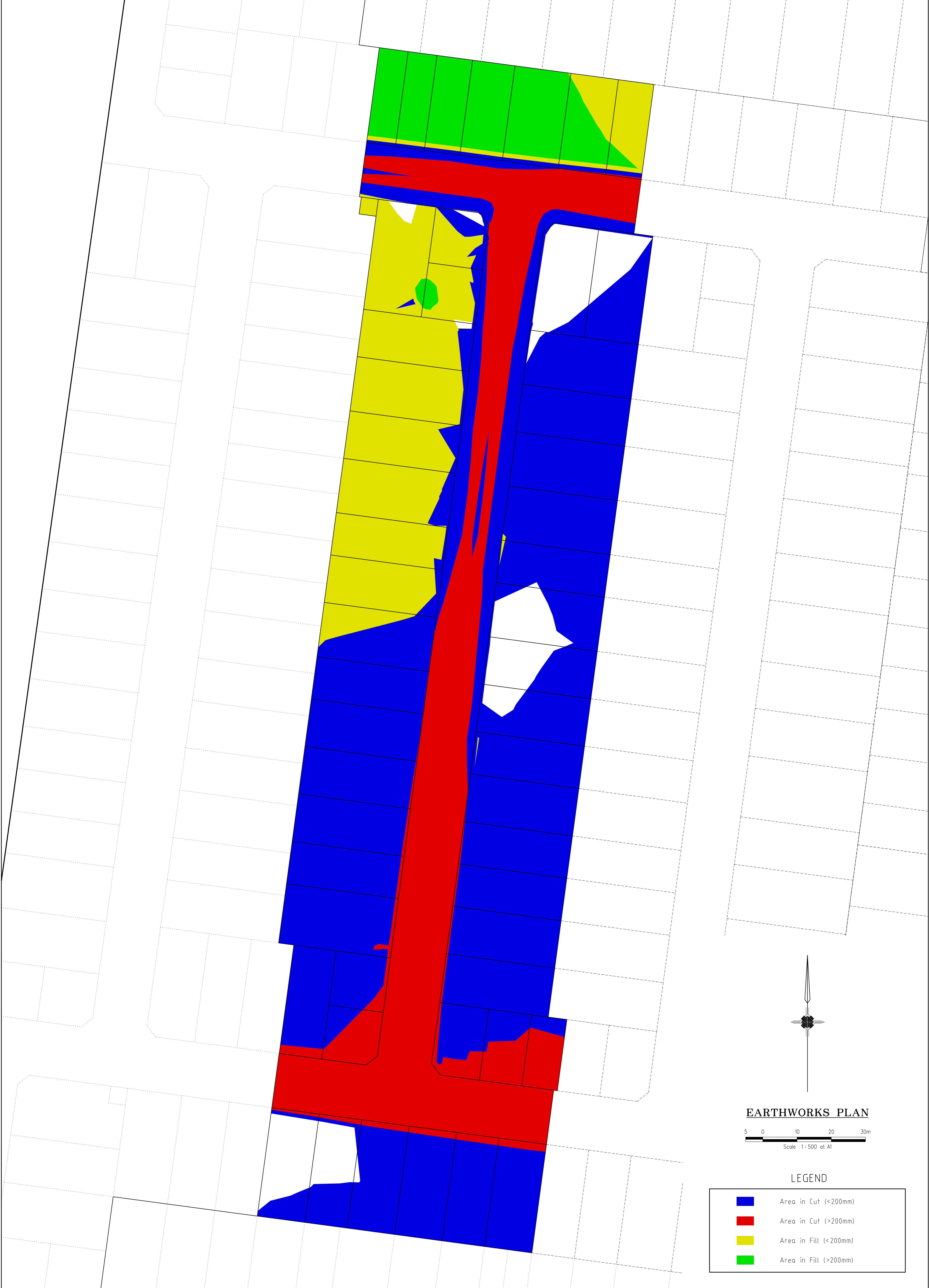
TURNING TEMPLATES

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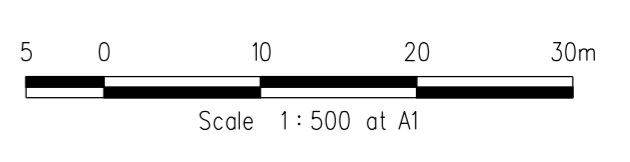
36182/8
 R22

REVISION C

SHEET 22 OF 24




EARTHWORKS PLAN

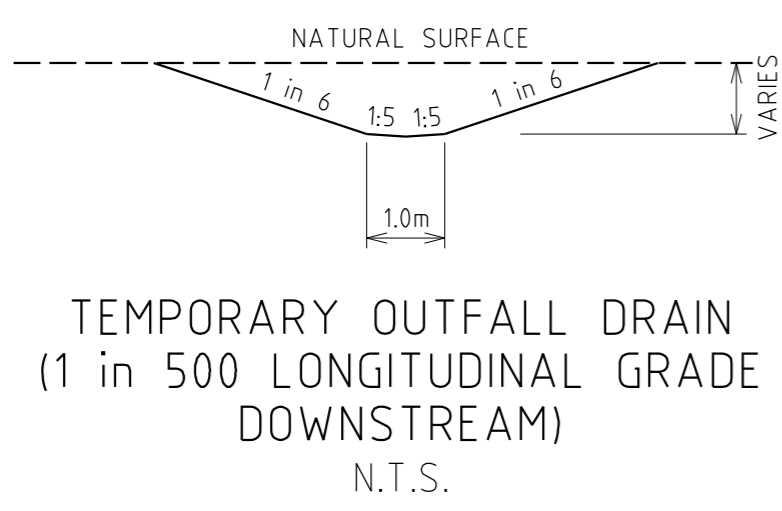
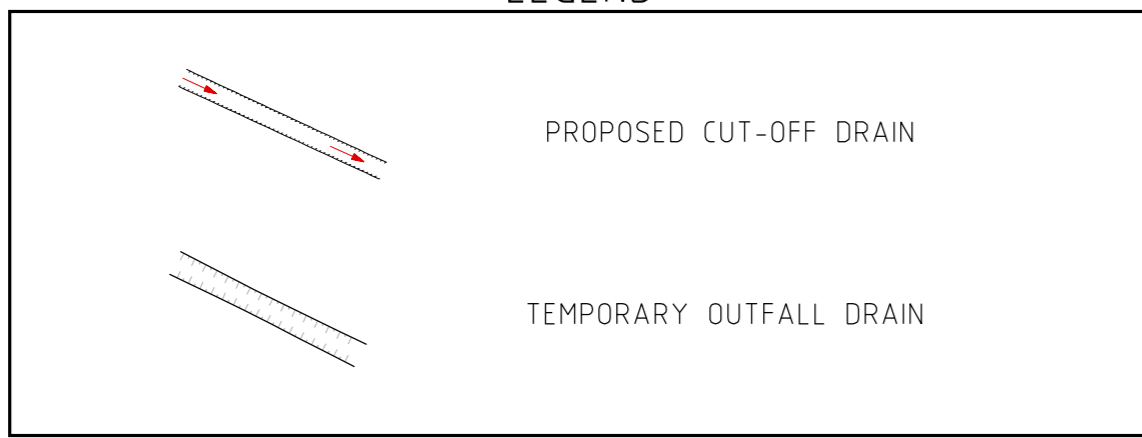


LEGEND

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

VERSION DETAILS						SCALE:	AS SHOWN	MORNINGTON		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	15/10/2014	5 Main Street,	• TOWN PLANNERS	VILLAWOOD PROPERTIES P/L		36182/8
						LEVEL DATA:	Ltopo.dgn	Phone(03) 9975 4644	• CIVIL ENGINEERS	TRILLIUM - STAGE 8		R 23
						DATUM:	AHD	Fax(03) 9975 3916	• SURVEYORS	535 MOUNT RIDLEY ROAD		
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	PROJECT No.:	36182/8		• Project Managers	MICKLEHAM		
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DRAWN:	C.M.B.	DATE: MAY 2014	• Urban Designers			REVISION
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	DESIGNED:	Z.W.L.	DATE: MAY 2014	• Structural Engineers	EARTHWORKS PLAN		C
FILENAME: k:\36182\36182_8\dgn\vr23.dgn						AUTHORISED:	A.S.C.	DATE: MAY 2014	 WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 437 509 613		SHEET 23 OF 24	

LEGEND



VERSION DETAILS						SCALE:	AS SHOWN	HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	15/10/2014	VILLAWOOD PROPERTIES P/L		36182/8
						LEVEL DATA:	Ltopo.dgn	TRILLIUM - STAGE 8		R24
						DATUM:	AHD	535 MOUNT RIDLEY ROAD		
						PROJECT No.:	36182/8	MICKLEHAM		
C	26/08/14	4	LOT 810 CROSSOVER RELOCATION & LOT 849 PROPERTY SERVICE AMENDMENTS	APPROVED	ASC	DRAWN:	C.M.B. DATE: MAY 2014	TEMPORARY CUTOFF DRAIN		REVISION C
B	26/06/14	-	COUNCIL COMMENTS DATED 3/06/14	APPROVED	ASC	DESIGNED:	Z.W.L. DATE: MAY 2014	& TEMPORARY OUTFALL		
A	28/05/14	4, 5 & 19	LOT 834, 835, 849 & 850 CROSSOVER RELOCATION	PRELIMINARY	ASC	AUTHORISED:	A.S.C. DATE: MAY 2014			SHEET 24 OF 24

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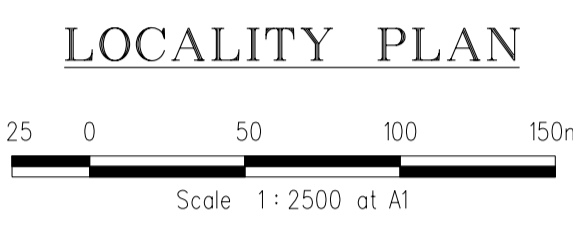
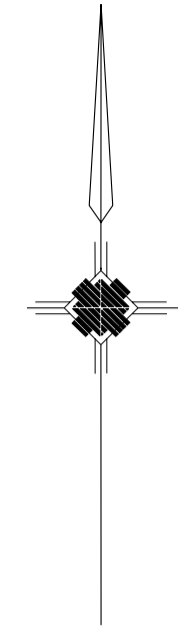
VILLAWOOD PROPERTIES P/L
TRILLIUM - STAGE 8
535 MOUNT RIDLEY ROAD
MICKLEHAM

TEMPORARY CUTOFF DRAIN
& TEMPORARY OUTFALL

36182/8
R24

REVISION C

SHEET 24 OF 24



- NOTES:**
- All levels are in metres to Australian Height Datum (AHD).
 - Coordinates for setting out are to Map Grid of Australia (MGA85-94) unless otherwise noted.
 - 51 No properties sewered.
 - Length of sewers to be constructed: 150mm dia PVC - 354m
 - 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.

PIPELINE CONSTRUCTION:

- Refer to Standard Drawings as per WSA 02-2002 MRWA Edition.
- 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 (225mm dia, 150mm dia, 100mm dia) to comply with AS/NZS3879 UNO.
- 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 tile peg 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 (SCH 032&SCH 033 RevB) and as per WSA 02-2002:2.3 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.

- 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 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.
- Chainages 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 02-16.3.2 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).

MAINTENANCE STRUCTURE SETOUT

ACCESS CHAMBER	EASTING	NORTHING	COVER LEVEL	DIAMETER	COVER CLASS	MANHOLE TYPE
Fut.WAT19-7	3662.439	10017.26	252.826	-	-	-
WAT19-6	3696.921	10012.637	252.883	1050	B	CONICAL
WAT19-5	3731.611	10007.986	252.586	1050	D	CONICAL
WAT19-4	3730.149	9997.083	252.401	1050	D	CONICAL
Ex.WAT19-3	3777.971	9990.672	252.367	-	-	-
WAT22-1S	3788.633	10192.477	254.457	-	B	TRUNCATED TYPE A
Ex.WAT21-3	3804.339	10190.318	254.363	-	-	-
WAT23-1S	3729.345	9991.087	252.273	-	D	TRUNCATED TYPE A
WAT24-4S	3724.19	10216.018	254.947	-	B	TRUNCATED TYPE A
WAT24-3	3722.037	10199.961	254.817	1050	B	CONICAL
WAT24-2MS	3715.924	10154.369	254.403	-	B	CONICAL
WAT24-1MS	3705.825	10079.043	253.643	-	B	CONICAL
WAT25-2S	3742.994	10213.294	254.841	-	B	TRUNCATED TYPE A
WAT25-1	3740.868	10197.436	254.713	1050	B	TRUNCATED TYPE A

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

- TRENCHING AND EMBEDMENT DETAILS**
- Refer to WSA02 MRWA drawing SEW 1201-V for trench/width details and MRWA Backfill Specification 04-03 for backfill design specification details.
 - Refer to WSA02 MRWA Sections 16.1 & 21.1 for trench floor preparation requirements and trench fill compaction requirements.
 - Refer to WSA02 MRWA Sections 20 and 30.5 for particle size requirements and grading limits for embedment material.
 - Refer to WSA02 MRWA drawings SEW 1202 - SEW 1205 for embedment details. All embedment to be Type 3 UNO.
 - Embedment product to be Yarra Valley Water 7mm bedding Product Specification. WSA PS-359
 - Backfill under footpath to be in accordance with MRWA Backfill Specification 04-03. Any other backfill material (sand) to be approved by road authority.

SYMBOLS AND GENERAL NOTES

—	EX. SEW. 225mm DIAM & UNDER	⊙	ACCESS CHAMBER CIRCULAR	Sq/U	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. END OF PIPE	Lg	LANDING IN ACCESS CHAMBER	—T—	TPHONE CABLES

REGARDING THE ACCURACY OF POSITIONS OF UNDERGROUNDS AND OVERHEAD STRUCTURES AND SERVICES SEE SPECIFICATIONS

DESIGNED	Z.W.L.	PLAN REFERENCE	36182/8
CHECKED	A.S.C.	MELWAY REFERENCE	366 A12
AUTHORISED	A.S.C.	YARRA VALLEY WATER FILE No.	09/1032

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YARRA VALLEY WATER
HUME CITY COUNCIL
SEWER RETIC. EXTN. No. 09/1032
TRILLIUM ESTATE - STAGE 8
LOCALITY PLAN

SCALE AS SHOWN
PLOTTED: 9/09/2014
SHEET 1 OF 3
DRAWING No.
09/1032/S01

WARNING
OVERHEAD ELECTRICITY

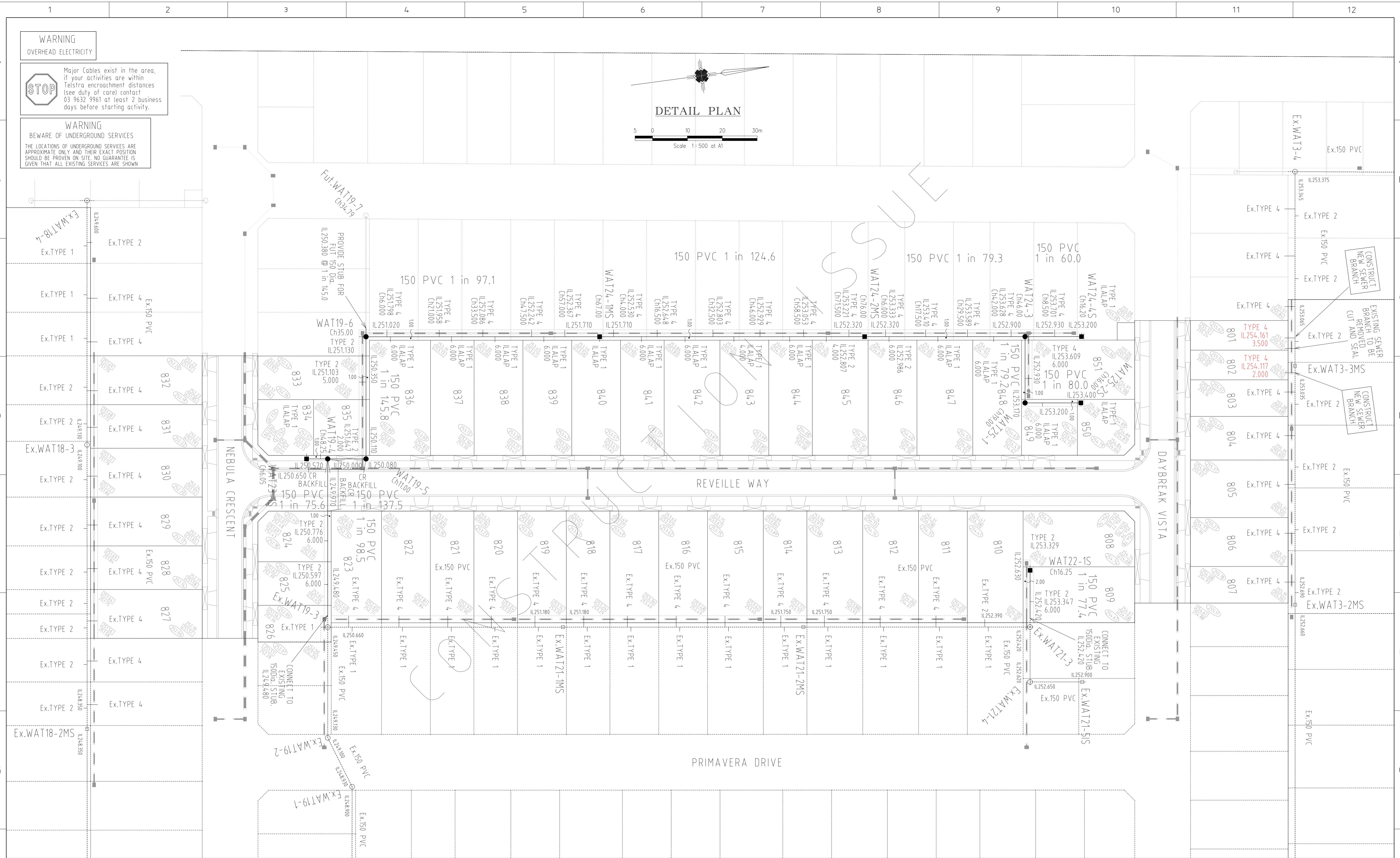
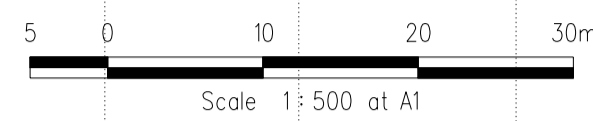


Major Cables exist in the area, if your activities are within Telstra encroachment distances (see duty of care) contact 03 9632 9961 at least 2 business days before starting activity.

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

DETAIL PLAN



SYMBOLS AND GENERAL NOTES

—	EX. SEW. 225mm DIAM & UNDER	⊙	ACCESS CHAMBER CIRCULAR	Sq	SQUARE JUNCTION
—	EX. SEW. 300mm DIAM & OVER	⊙	ACCESS CHAMBER GAS CHECK	Ob	OBLIQUE JUNCTION
—	PROP. SEW. 225mm DIAM & UNDER	F	ACCESS CHAMBER FLAT TOP	—	WATER MAINS
—	PROP. SEW. 300mm DIAM & OVER	D	DROP IN ACCESS CHAMBER	—	GAS MAINS
—	IS/TMS/MS	L	LADDER IN ACCESS CHAMBER	—	ELECT. CABLES
—	END OF PIPE	Lg	LANDING IN ACCESS CHAMBER	—	TPHONE CABLES

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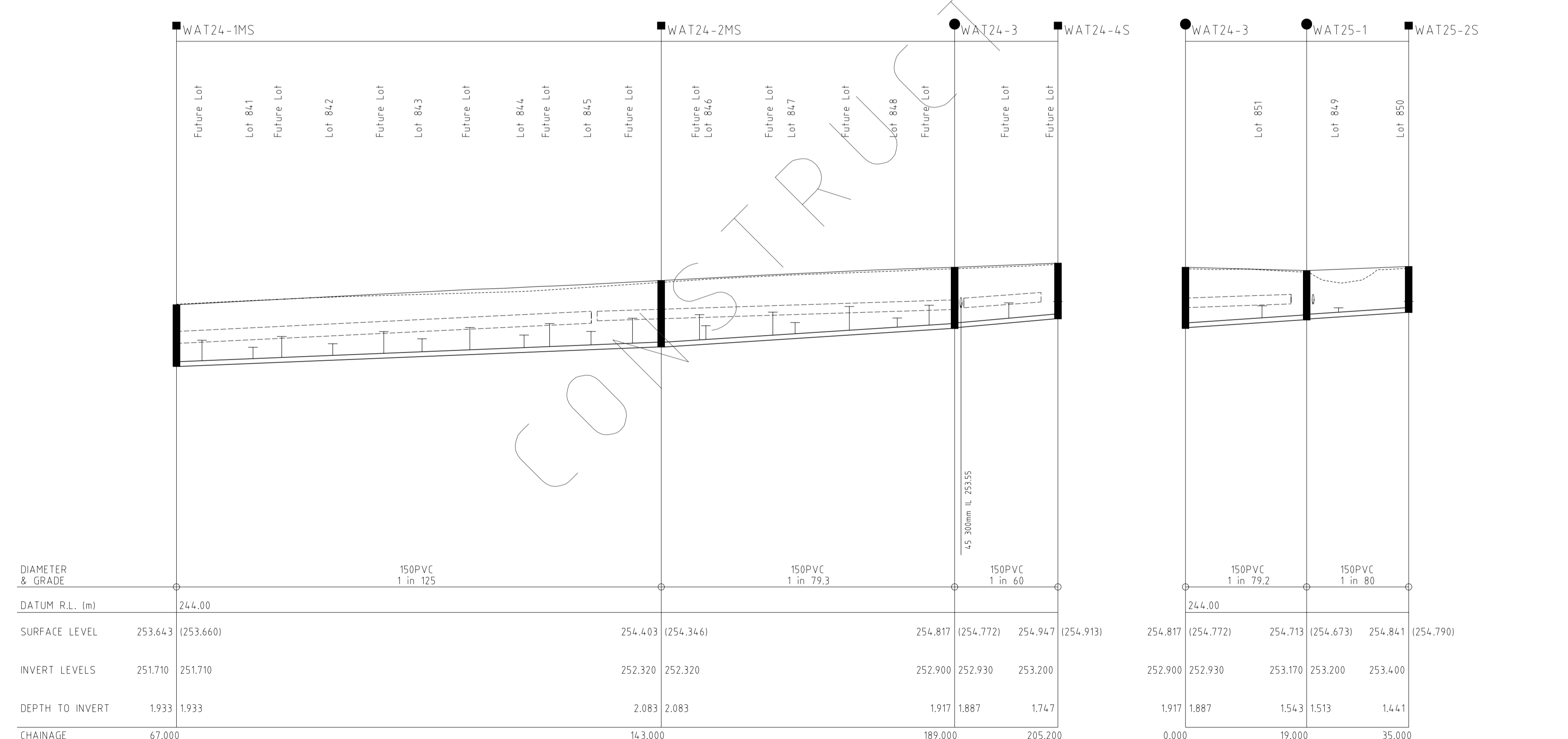
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YARRA VALLEY WATER
HUME CITY COUNCIL
SEWER RETIC. EXTN. No. 09/1032
TRILLIUM ESTATE - STAGE 8
DETAIL PLAN

SCALE AS SHOWN
PLOTTED: 9/09/2014
SHEET 2 OF 3
DRAWING No.
09/1032/S02

B	YARRA VALLEY WATER REFERENCE NUMBER ADDED	09/09/14	ASC
A	TENDER ISSUE LOT 835 PROPERTY CONNECTION AMENDED	28/05/14	ASC
REF.	STATUS	REVISION	APP'D.

FILENAME: k:\36182\36182_8\vdgn\502.dgn



LONGITUDINAL SECTION

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

Horiz. Scale 1: 500 at A1
 Vert. Scale 1: 100 at A1

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.

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REF.	STATUS	REVISION	DATE	APP'D.
B		YARRA VALLEY WATER REFERENCE NUMBER ADDED	09/09/14	ASC
A	TENDER ISSUE	LOT 835 PROPERTY CONNECTION AMENDED	28/05/14	ASC

FILENAME: k:\36182\36182_8\dgm\S03.dgn

SYMBOLS AND GENERAL NOTES

EX. SEW. 225mm DIAM & UNDER
 EX. SEW. 300mm DIAM & OVER
 PROP. SEW. 225mm DIAM & UNDER
 PROP. SEW. 300mm DIAM & OVER
 IS/TMS/MS
 E.P. END OF PIPE

ACCESS CHAMBER CIRCULAR
 ACCESS CHAMBER GAS CHECK
 ACCESS CHAMBER FLAT TOP
 DROP IN ACCESS CHAMBER
 L LANDING IN ACCESS CHAMBER
 Lg. LANDING IN ACCESS CHAMBER

SQUARE JUNCTION
 OBLIQUE JUNCTION
 WATER MAINS
 GAS MAINS
 ELECT. CABLES
 TPHONE CABLES

REGARDING THE ACCURACY OF POSITIONS OF UNDERGROUND AND OVERHEAD STRUCTURES AND SERVICES SEE SPECIFICATIONS

DESIGNED	Z.W.L.	PLAN REFERENCE	36182/8
CHECKED	A.S.C.	MELWAY REFERENCE	366 A12
AUTHORISED	A.S.C.	YARRA VALLEY WATER FILE No.	09/1032

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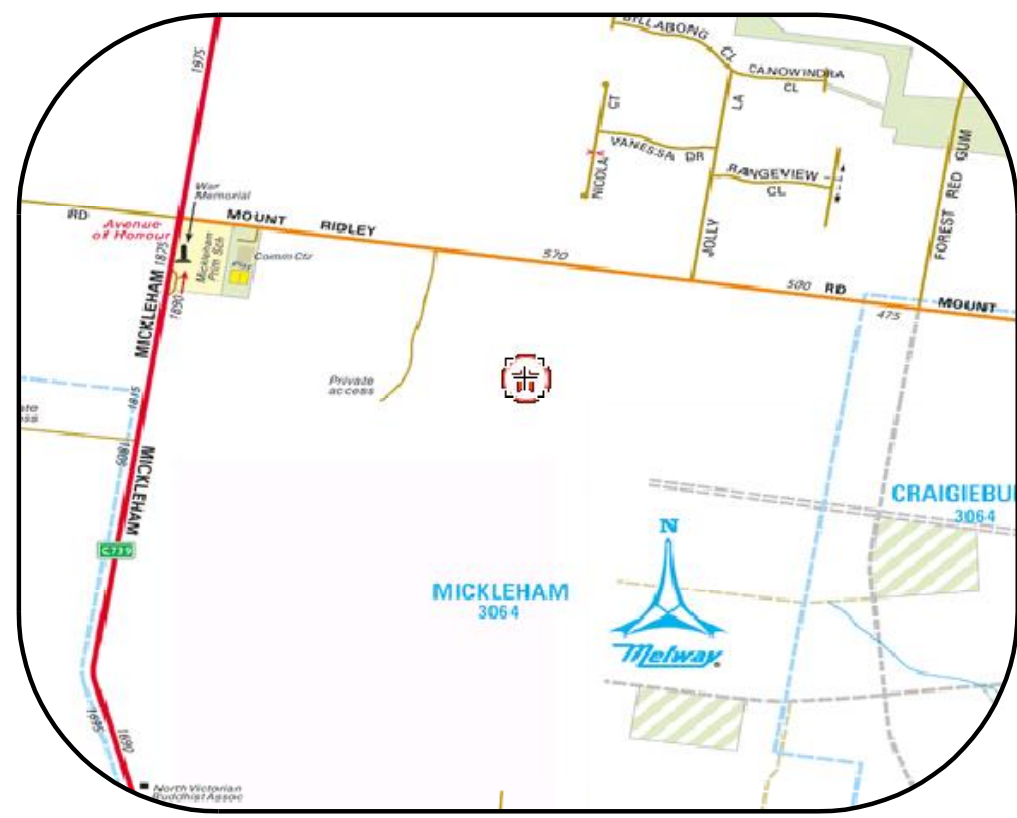
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YARRA VALLEY WATER
 HUME CITY COUNCIL
 SEWER RETIC. EXTN. No. 09/1032
 TRILLIUM ESTATE - STAGE 8
 LONGITUDINAL SECTIONS

SCALE AS SHOWN
PLOTTED: 9/09/2014
SHEET 3 OF 3
DRAWING No.
09/1032/S03

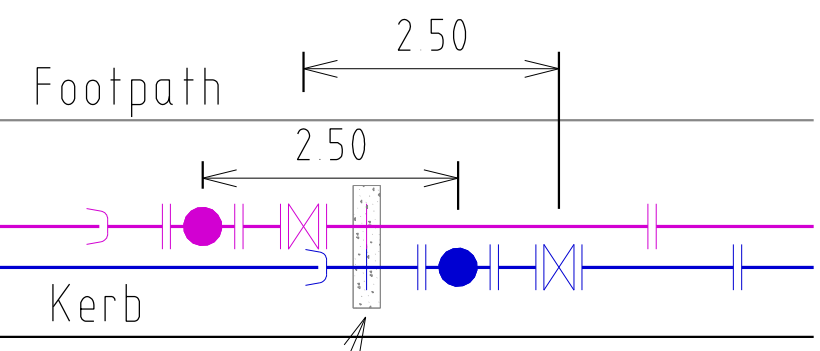
DESIGN HEAD: 62.4 m
ZONE: RESIDENTIAL
TEST PRESSURE: 1000 kPa



LOCALITY PLAN

SCALE: N.T.S.
MELWAYS: 366 A12

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- 2011 MRWA edition. The Contractor shall ensure that they are conversant with all current revisions, amendments and updates that the relevant Water Agency has made to their standards.
 - 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 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 WSA03-2011 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.
- Water and Gas to be in shared trench.
- 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- 204, 205A and 205B.
- 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 WSA03-2011 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 WSA03-2011 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.
- Pressure test pipeline systems using the method and duration specified in Table MRWA19.2.

TABLE 1. New Pipe Schedule

New Work			Drinking Main	Non-Drinking Main
Size (DN)	Type	Class	Length	Length
150	PVC-O	16	84m	84m
100	PVC-O	16	349m	349m
63	PE80	12.5	-	-
50	PE80	12.5	-	-
40	PE80	12.5	-	-
25	PE80	12.5	Property Services	Property Services

TABLE 2. Pipe Material Schedule

MATERIAL	Reference	MATERIAL	Reference
PVC-M	WSA-PS-209	PE (retic & submain)	WSA-PS-207
PVC-O	WSA-PS-210	PE (property services)	WSA-PS-215

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

Main Size	Fitting Type	Ownership	Location	Street	Location
150	HYDRANT	DW - YVW	End of Line	DAYBREAK VISTA	2.5m W of WBL Lot 801
150	HYDRANT	NDW - YVW	End of Line	DAYBREAK VISTA	5m W of WBL Lot 801
100	HYDRANT	DW - YVW	In Line	REVEILLE WAY	NBL Lot 850
100	HYDRANT	NDW - YVW	In Line	REVEILLE WAY	NBL Lot 850
100	HYDRANT	DW - YVW	In Line	REVEILLE WAY	8.5m N of SBL Lot 842
100	HYDRANT	NDW - YVW	In Line	REVEILLE WAY	6m N of SBL Lot 842
100	WASHOUT	DW - YVW	End of Line	NEBULA CRESCENT	WBL of Lot 833
100	WASHOUT	NDW - YVW	End of Line	NEBULA CRESCENT	2.5m W of WBL Lot 833

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
DAYBREAK VISTA	3.05 N	2.55 N	2.05 N	1.775 S	2.60 S	-	-
REVEILLE WAY	3.05 E	2.55 E	2.05 E	1.775 W	2.60 W	-	-
NEBULA CRESCENT	3.05 N	2.55 N	2.05 N	1.775 S	2.60 S	-	-

TABLE 6. Thrust Restraint Schedule

Location	Type	Area (m ²)	Depth (m)	Width (m)	Quantity	Fitting	AHBP (kPa) USED
A	Detail E, MRWA-W-205A	0.48	N/A	N/A	2	150 WASHOUT	50
B	Detail F, MRWA-W-205B	0.48	N/A	N/A	2	150 x 100 TEE	50
C	Detail E, MRWA-W-205A	0.23	N/A	N/A	2	100 WASHOUT	50
D	Detail F, MRWA-W-205B	0.23	N/A	N/A	2	100 x 100 TEE	50
E	Detail K, MRWA-W-205A	0.23	N/A	N/A	4	100 HYDRANT	50
F	Detail J, MRWA-W-205A	0.30	N/A	N/A	2	100 VALVE	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.

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.

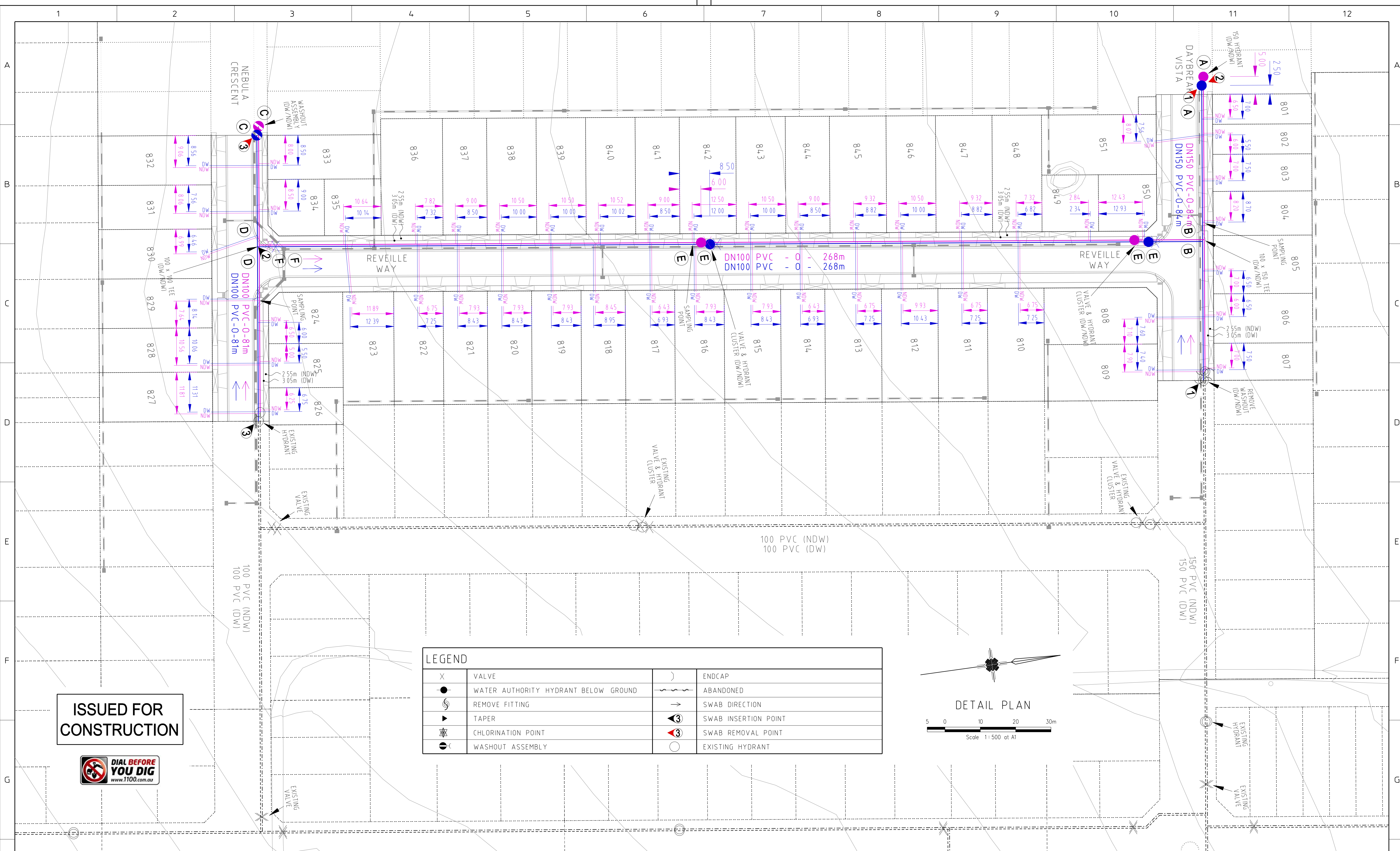
WARNING
BEWARE OF ASBESTOS
SOME UNDERGROUND SERVICES MAYBE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD

ISSUED FOR CONSTRUCTION



FOR THE DURATION OF PROCLAIMED WATER RESTRICTIONS, THE CONTRACTOR SHALL CONFORM WITH THE RESTRICTIONS AND ANY OTHER WATER CONSERVATION REQUIREMENTS IMPOSED BY THE WATER AGENCY.

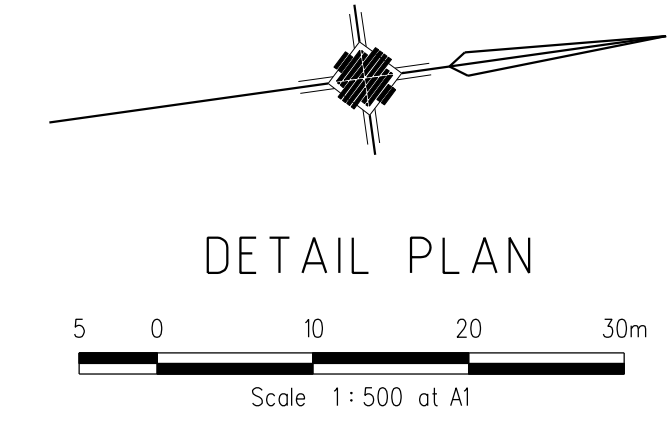
REV	DESCRIPTION	DATE	APPROVED	DESIGNED	C M B	WATSONS REFERENCE	36182/8	 WATSONS <small>ABN 47 637 509 613</small>	CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS TOWN PLANNERS - URBAN DESIGNERS MORNINGTON 5 Main Street, P.O. Box 171 3931 Phone (03) 5975 4644 Fax (03) 5975 3916 DX 93118 Mornington MELBOURNE 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		SCALE AS SHOWN			
B	YYW REF NO. THRUST RESTRAINT SCHEDULE. DESIGN HEAD & TEST PRESSURE AMENDED	09/09/14	A S C	CHECKED	A S C	MELWAY REFERENCE	366 A12								SHEET 1 of 2	
A	LOT 849 PROPERTY SERVICE OFFSET AMENDMENTS	26/8/14	A S C	AUTHORISED BY	A S C	YARRA VALLEY WATER REFERENCE	09/1032								DRAWING No	
															09/1032 W01	B A



ISSUED FOR CONSTRUCTION



LEGEND	
X	VALVE
●	WATER AUTHORITY HYDRANT BELOW GROUND
⊘	REMOVE FITTING
▶	TAPER
⊙	CHLORINATION POINT
⊕	WASHOUT ASSEMBLY
⌋	ENDCAP
⋯	ABANDONED
→	SWAB DIRECTION
③	SWAB INSERTION POINT
③	SWAB REMOVAL POINT
○	EXISTING HYDRANT



REV	DESCRIPTION	DATE	APPROVED
B	YYW REF NO, THRUST RESTRAINT SCHEDULE, DESIGN HEAD & TEST PRESSURE AMENDED	09/09/14	A S C
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DESIGNED	CMB	WATSONS REFERENCE	36182/8
CHECKED	A S C	MELWAY REFERENCE	366 A12
AUTHORISED BY	A S C	YARRA VALLEY WATER REFERENCE	09/1032

WATSONS
ABN 47 637 509 613

CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS
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YARRA VALLEY WATER
ACN 066 902 501

WATER MAIN PLAN
TRILLIUM ESTATE - STAGE 8
535 MOUNT RIDLEY ROAD, MICKLEHAM
HUME CITY COUNCIL

SCALE AS SHOWN	
SHEET 2 of 2	
DRAWING No	09/1032
	W02