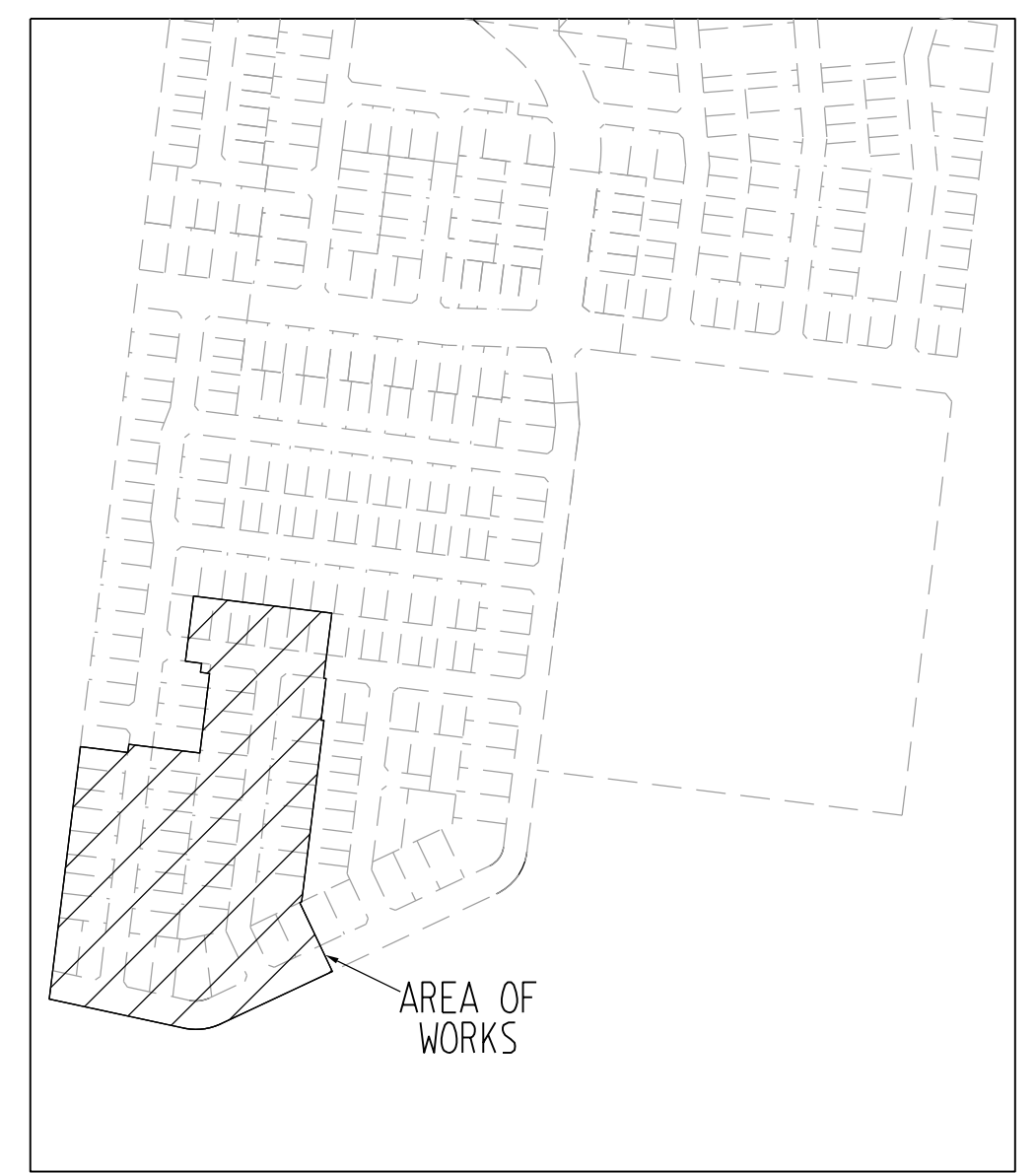
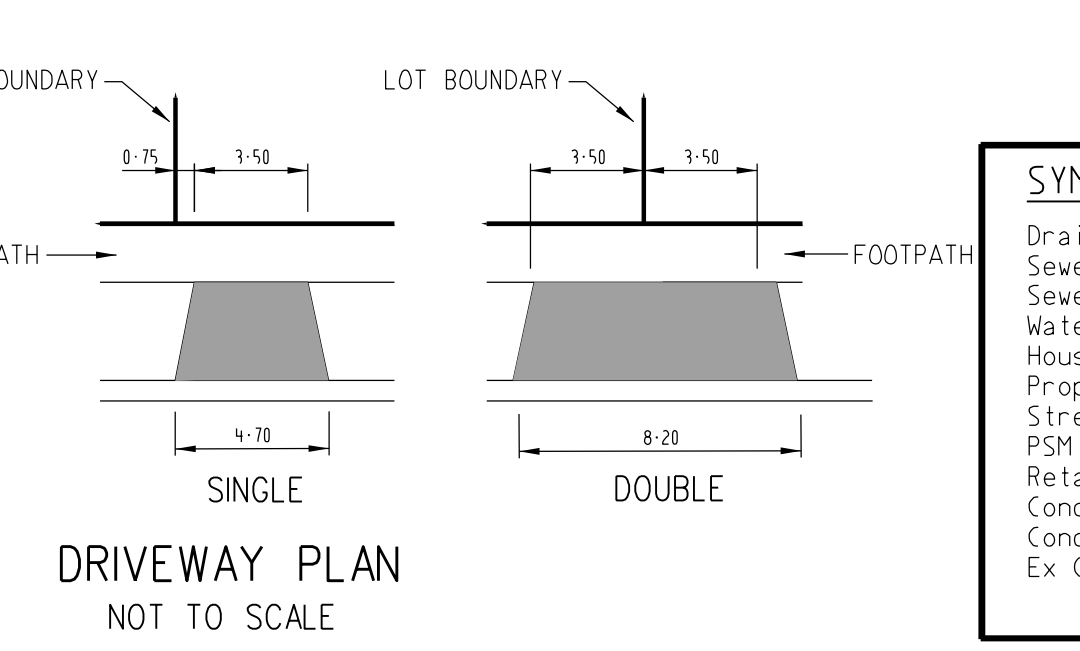
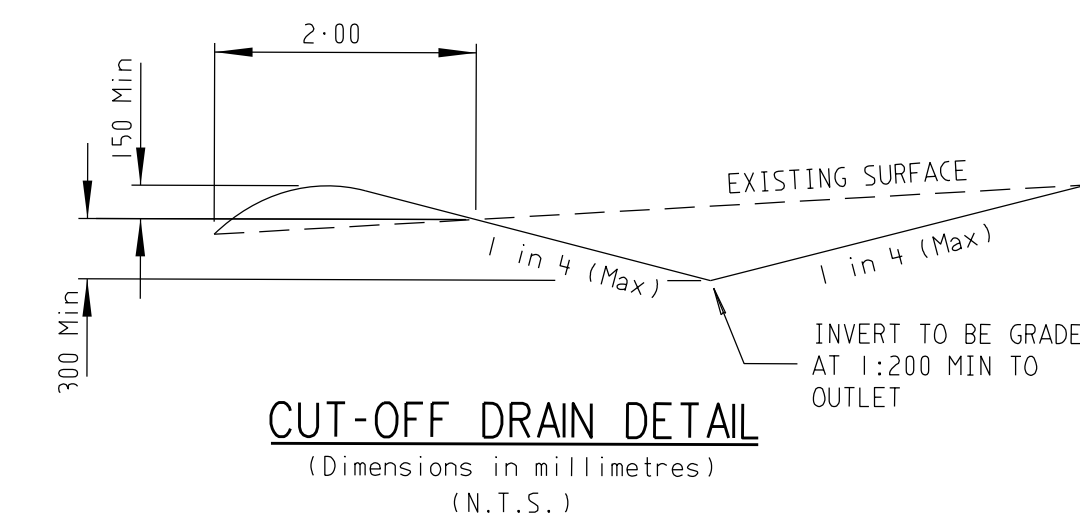




SHEET INDEX		
SHT No.	VER	DESCRIPTION
1	B	DETAIL PLAN, SHEET INDEX, SERVICES SCHEDULE & LOCALITY PLAN
2	B	TYPICAL CROSS SECTIONS, PAVEMENT DETAILS & NOTES
3	A	INTERSECTION DETAILS
4	A	LONGITUDINAL SECTION - REALM VISTA & AMBERFIELD STREET
5	A	LONGITUDINAL SECTION - BRABOURNE STREET & HEATHCOTE STREET
6	A	CROSS SECTIONS - REALM VISTA
7	A	CROSS SECTIONS - AMBERFIELD STREET
8	A	CROSS SECTIONS - HEATHCOTE STREET
9	A	CROSS SECTIONS - BRABOURNE STREET
10	A	DRAINAGE LONGITUDINAL SECTIONS-1
11	A	DRAINAGE LONGITUDINAL SECTIONS-2 & PIT SCHEDULE
12	A	PARKING AND SIGNAGE & LITEMARKING PLAN

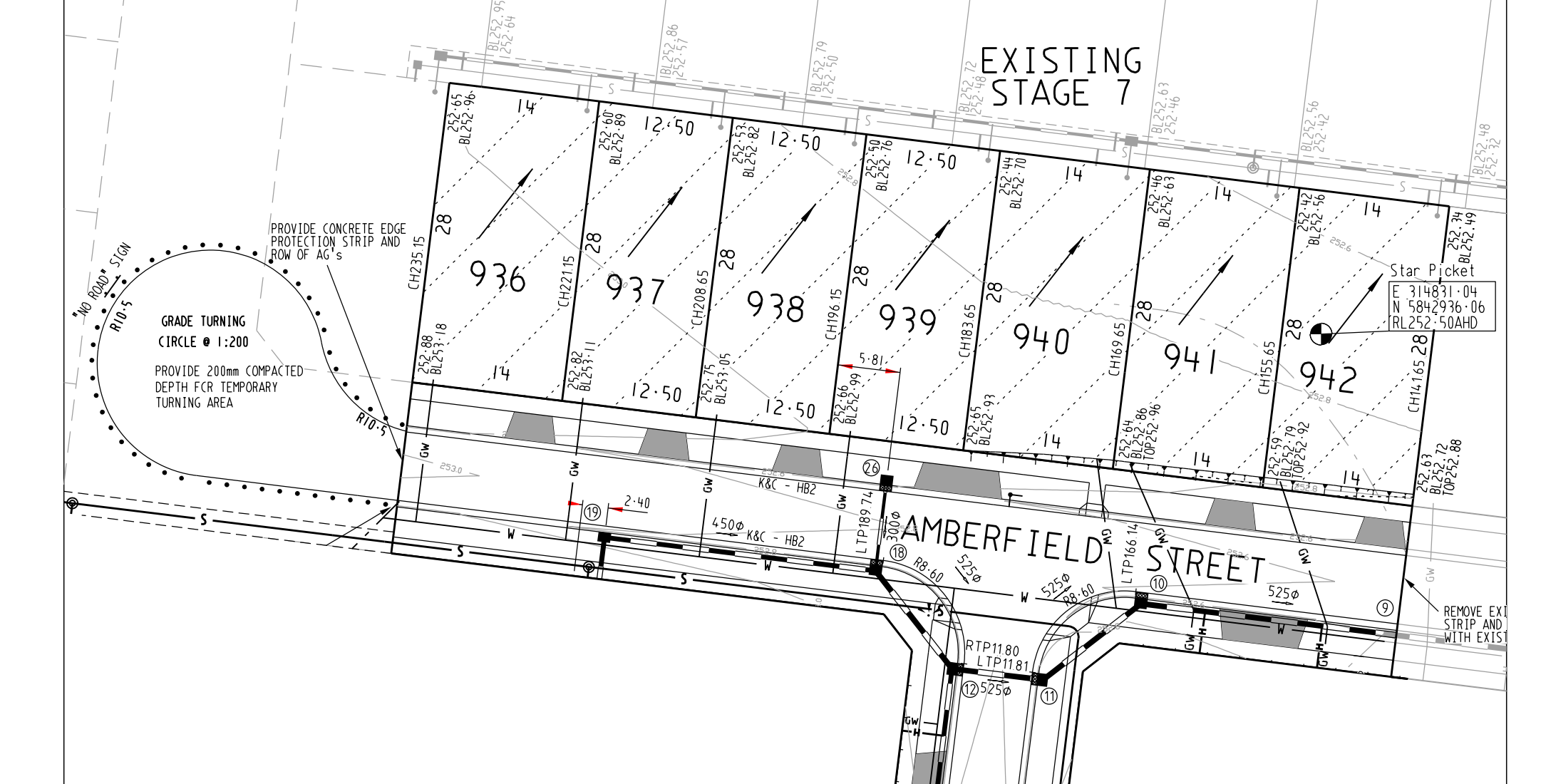


SYMBOL LEGEND		
Drains	Prop	Exist
Sewer <300	S	S
Sewer >300	S	S
Water	W	W
House Drain	H	H
Property Inlet	PI	PI
Street Sign	SS	SS
PSM	PSM	PSM
Retaining Wall	RW	RW
Conduits 50mm	C50	C50
Conduits 100mm	C100	C100
Ex Gas/Elect/Tel	G	E
Ex/Natural/FS Level	28.51	28.51
FS @ Building Line	102.51	102.51
Top/Toe of Batter	102.51	102.51
Top Ret. Wall Level	102.51	102.51
100yr Flood Level	102.51	102.51
Fill Prop/Ex	102.51	102.51
Cut Prop/Ex	102.51	102.51

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.

- ATTENTION TO CONTRACTOR**
- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
 - Where concrete works abut a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

SERVICES OFFSETS AND LOCATIONS												
STREET/LOT	NAME	Rd.RESERVE	WATER		GAS	ELECTRICITY		NBN		Bk. of KERB	JOINT TRENCHING	
			DW	NDW		CABLES	POLES	NBN CABLES	NBN PITS			
REALM VISTA		19-00	3-20 N	2-70 N	2-25 N	5-35 S	1-00 BOK	4-70 S	1-85 N	4-35 N 7-05 S	G DW NDW & E NBN	
AMBERFIELD STREET		16-00	3-20 S	2-70 S	2-25 S	2-50 N	1-00 BOK	1-85 N	1-85 S	4-35 S 4-05 N	G DW NDW & E NBN	
HEATHCOTE STREET		16-00	3-20 W	2-70 W	2-25 W	2-50 E	1-00 BOK	1-85 E	1-85 W	4-35 W 4-05 E	G DW NDW & E NBN	
BRABOURNE STREET		16-00	3-20 W	2-70 W	2-25 W	2-50 E	1-00 BOK	1-85 E	1-85 W	4-35 W 4-05 E	G DW NDW & E NBN	



AMENDMENTS

VER	DATE	REMARKS
B	05-12-17	BOLLARD & CABLE DETAILS ADDED
A	22/11/17	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.

land surveyors

civil engineers

WARATAH ESTATE

STAGE 9

MELWAY REF.

366-E-6

SURVEY

BPD

DESIGN

SBS

DRAWN

TVT

SCALE

AS SHOWN

DATUM

AHD

DATE

AUG' 17

SHEET

1 OF 12

B

MUNICIPALITY

HUME

REFERENCE

8711 E/9

1/19 calo street

hawthorn east, 3123

telephone 8823 2300

fax no. 8823 2310

1:V88711NENGS09VE9.B01.DWG

NTS

NTS

PAVEMENT DETAILS

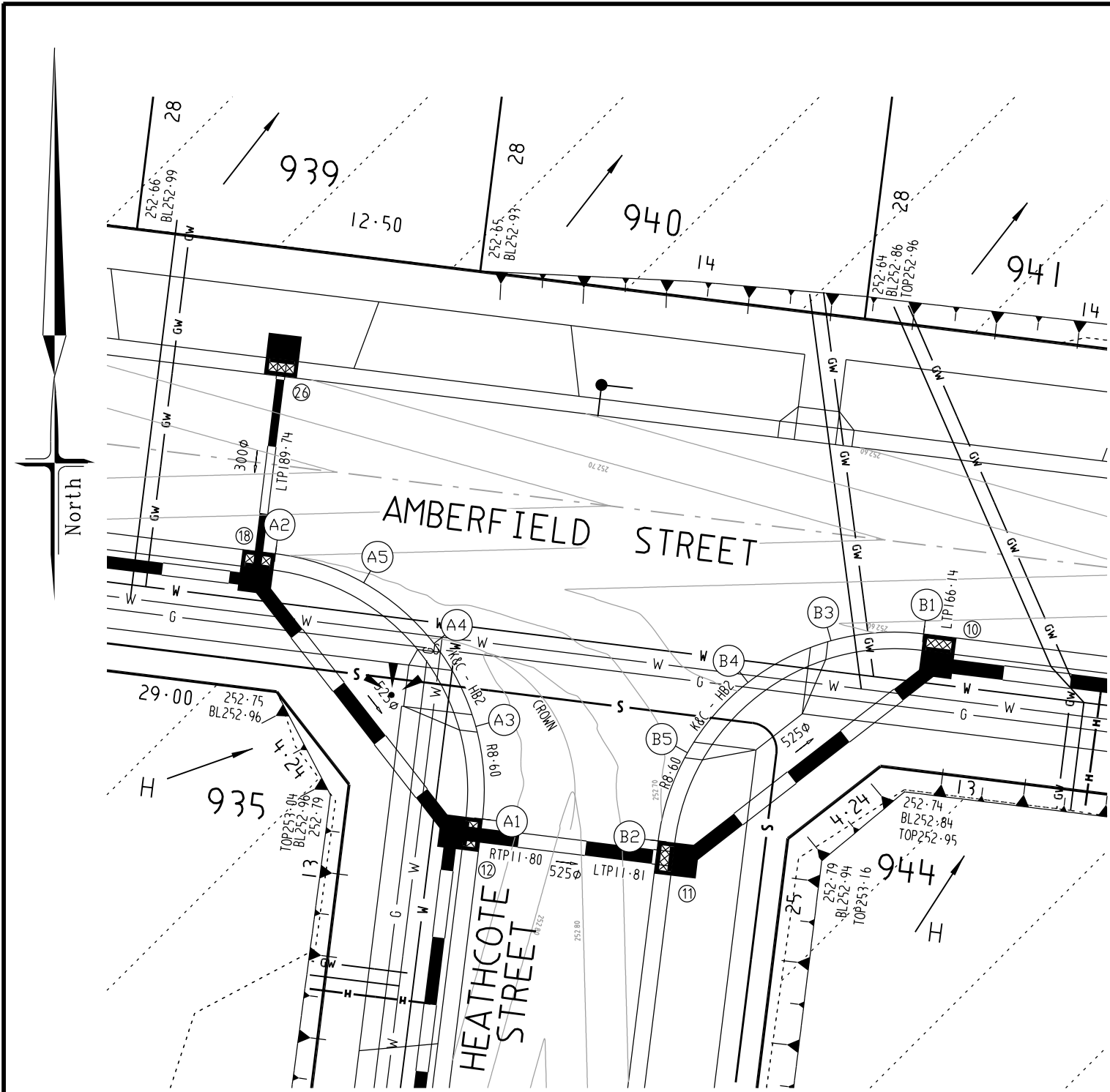
NTS

NTS

NOTES

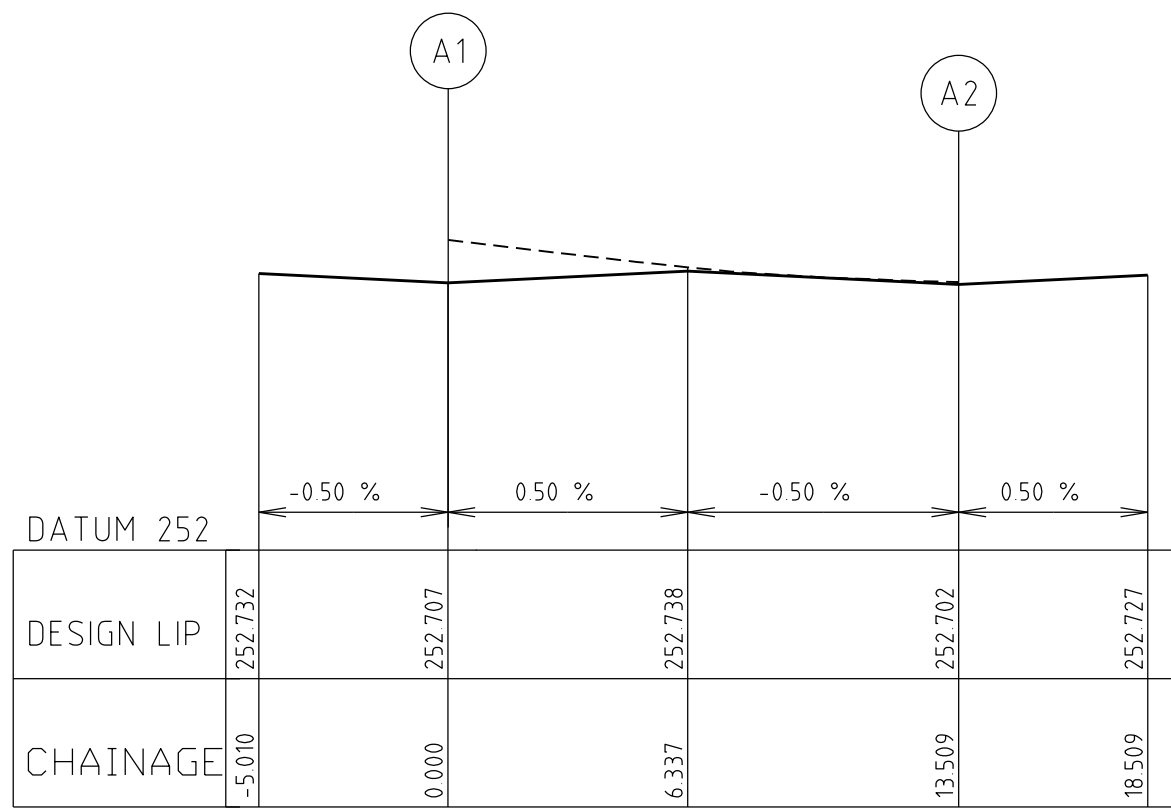
- | | | | |
|-----|---|-----|---|
| 1. | ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MPA AND HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. | 49. | ALL STORMWATER DRAINS TO BE CLASS 2 R.C. OR RIGID F.R.C. PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO & INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING/FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA. |
| 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 DEVELOPER'S 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. | 50. | WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY. |
| 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 TEST 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. | 51. | ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE. |
| 4. | PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND OHS REGULATIONS 2007 HAVE BEEN AND WILL BE COMPLIED WITH. | 52. | ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. |
| 5. | PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND NSW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS. | 53. | AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. |
| 6. | 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. | 54. | ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 3 F.C.R. COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003. ALL DRAINS, SEWERS, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT CONDUITS) ARE TO BE BACKFILLED WITH 20mm CLASS 2 F.C.R. 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. |
| 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. | 55. | PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003. |
| 8. | ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. | 56. | ALL EXISTING ASSETS AFFECTED BY THE WORKS (SIGNS, VEHICLE CROSSINGS, FOOTPATHS, KERB AND LINEMARKING) SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. |
| 9. | ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD). | 57. | ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A., M.F.E.S.B. & N.R.E.), MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST. |
| 10. | ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA). | 58. | AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD282. |
| 11. | 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 MPA MANUAL AND HUME CITY COUNCIL SPECIFICATIONS. | 59. | ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. |
| 12. | 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. | 60. | 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 AND TO BE MOUNTED ON STREET LIGHT POLES WHERE POSSIBLE. |
| 13. | FILLING TO COMPLY WITH A.S.3798-2007, LEVEL 1 UNLESS SPECIFIED OTHERWISE. | 61. | 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 PASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL. |
| 14. | 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. | 62. | ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S.1743-2001. |
| 15. | WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED. | 63. | HOUSE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE TO BE HEAVY DUTY SEWER GRADE. PVC PIPES SHALL BE BACKFILLED WITH 10mm MINUS F.C.R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS. |
| 16. | 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. | 64. | LOTS DENOTED THUS 36H ARE TO BE PROVIDED WITH A 100mm HOUSE DRAIN CONNECTION TO BE LAID AT AN OFFSET OF 6.0M FROM THE LOW SIDE TITLE BOUNDARY AND PROPERTY INLETS 1.0M FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN. |
| 17. | 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. | 65. | DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. CENTRELINE OF PITS AT KERB T.P.'s TO BE 1.20m OFF T.P. |
| 18. | THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES/FENCES AND FOR ANY RETAINING WALLS OVER 1.0M IN HEIGHT. | 66. | BATTERS SHALL BE IN 1 IN 5 FOR FILL AND 1 IN 3 FOR CUT UNLESS OTHERWISE SHOWN. |
| 19. | 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. | 67. | LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER. ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE. |
| 20. | PRIOR TO STATEMENT OF COMPLIANCE ALL DISTURBED AREAS (INCLUDING NATURE STRIPS, BATTERS, ALLOTMENTS WITH GRADES OF 1:5 AND GREATER, AND RESERVES) ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100mm LOAMY TOP SOIL FREE OF RUBBISH, DEBRIS, CLUMPS, SODS AND CLAY LUMPS), LIGHTLY COMPACTED AND HYDRO MULCHED WITH A SEED MIX OF 40KG/HA KIKUYU, 200KG/HA TURF TYPE PERENNIAL RYE, 100KG/HA CREEPING RED FESCUE AND 1,500KG/HA OF CELLULOSE FIBRE AND A SOIL BINDER, SPECIFICALLY MANUFACTURED FOR HYDROMULCHING, USED AT MANUFACTURERS RECOMMENDED RATES (E.G. ORGANIC GAUR TACKIFIERS @ 20-30KG/HA, BASED UPON SITE CONDITIONS). PLEASE NOTE BITUMEN BINDERS ARE NOT ACCEPTED BY COUNCIL. GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD, UNLESS OTHERWISE AGREED IN WRITING. | 68. | THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETE MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT. |
| 21. | FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY. | 69. | TELSTRA/BNB Co TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED. |
| 22. | ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED. | 70. | LOCATION OF GAS, WATER AND TELSTRA/BNB Co CONDUITS ARE TO BE APPROPRIATELY MARKED ON THE FACE OF THE KERB AND CHANNEL WITH G, W, T AND O RESPECTIVELY. ALL CONDUIT ENDS SHALL BE SECURELY PLUGGED. TELSTRA/BNB Co, GAS & WATER CONDUITS TO BE 50mm CLASS 12 UPVC. |
| 23. | ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED. | 71. | ALL DRIVEWAYS ARE TO BE CONSTRUCTED AS PER VPA EDM 501 AND EDM 502 UNLESS OTHERWISE SHOWN. |
| 24. | SERVICE CONDUITS TRENCHES UNDER DRIVEWAYS AND FOOTPATHS ARE TO BE 50MM P.V.C. LAYED 450mm DEEP AND EXTENDING 250mm EACH SIDE OF DRIVEWAYS/FOOTPATHS. ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003. ALL SERVICE CONDUITS TRENCHES UNDER FOOTPATH, VEHICULAR CROSSINGS, PARKING BAYS AND WITHIN 750MM OF PARKING BAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK. | 72. | ALL DRIVEWAY RAMP INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 4 TO THE SATISFACTION OF THE ENGINEER. |
| | | 73. | CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING, PLANKING, STRUTTING AND DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP THE WORKS IN A SAFE AND STABLE CONDITION AND PROTECT THE PUBLIC FROM THE WORK |

AMENDMENTS					breese pitt dixon Pty. Ltd. land surveyors civil engineers				1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310					
				MELWAY REF.	366-E-6		WARATAH ESTATE STAGE 9				MUNICIPALITY			
				SURVEY	BPD						HUME			
B	5/12/17	BOLLARD & CABLE DETAIL ADDED			DESIGN	SBS					REFERENCE			
A	22/11/17	CONSTRUCTION ISSUE			DRAWN	TVT					8711 E/9			
VER	DATE	REMARKS		CHECKED	SCALE	AS SHOWN	DATUM	AHD	DATE	AUG' 17	SHEET	2	OF 12	B



Alignment A

Point no	Easting	Northing	RL
A 1	314797.894	5842905.466	252.707
A 2	314796.413	5842915.856	252.702
A 3	314797.448	5842908.813	252.724
A 4	314796.160	5842911.810	252.736
A 5	314795.599	5842914.083	252.719

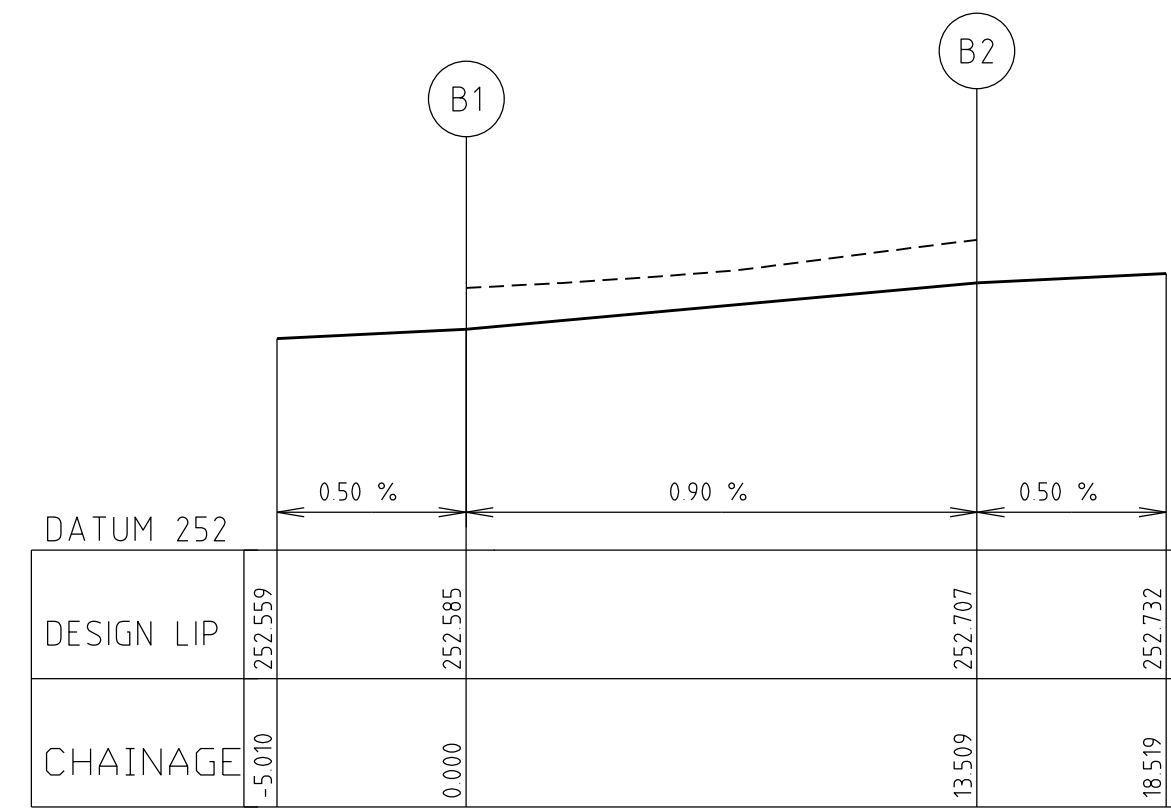


LIP LINE A

Curve no	L	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
A 1 2	-90.000	-8.600	13.509	2.519	1.864	2.790	3.291	3.377	252.736

Alignment B

Point no	Easting	Northing	RL
B 1	314813.874	5842912.155	252.585
B 2	314809.245	5842904.634	252.187
B 3	314810.488	5842911.909	252.615
B 4	314807.406	5842918.401	252.646
B 5	314805.288	5842907.860	252.676

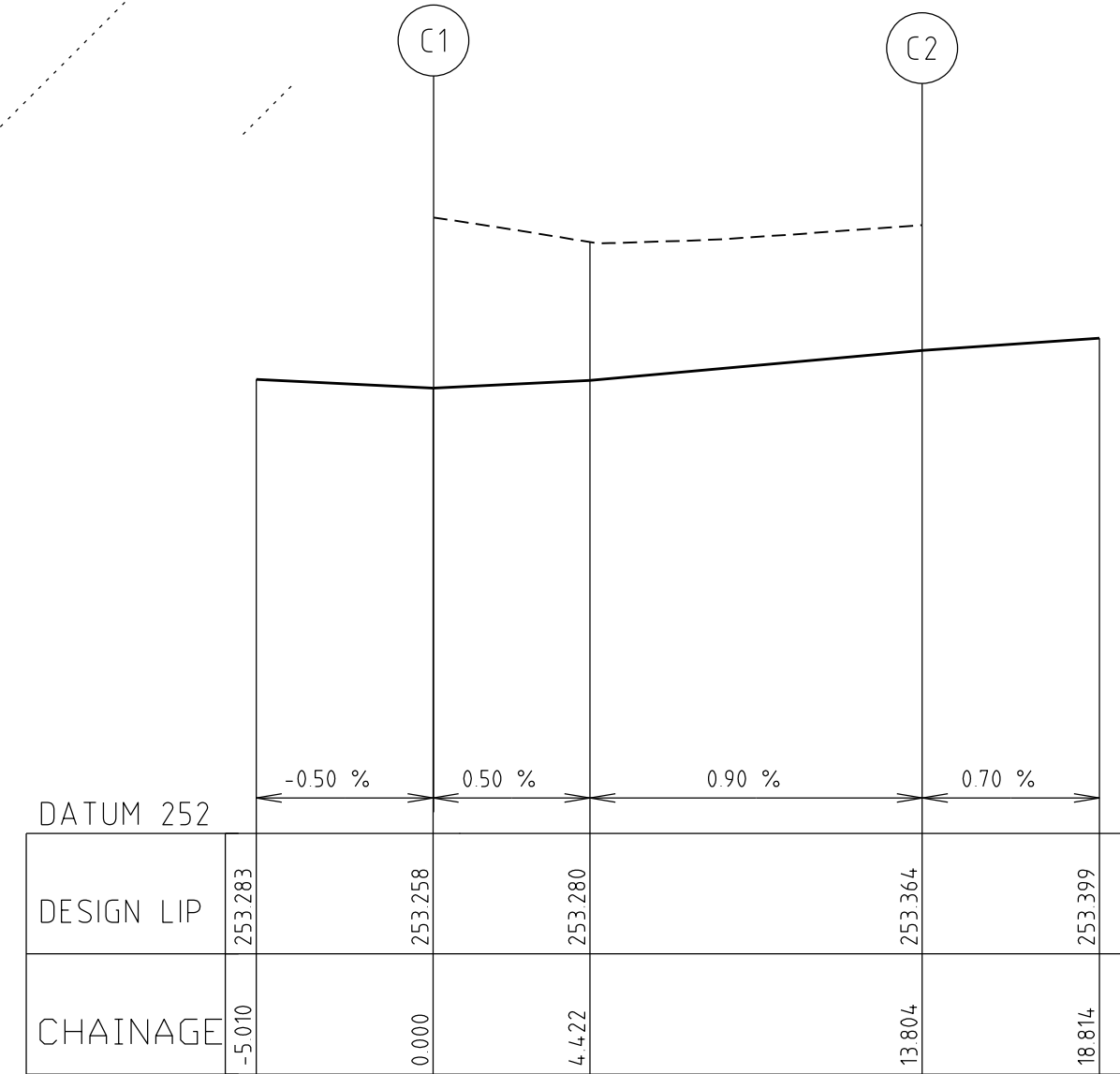


LIP LINE B

Curve no	L	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
B 1 2	-90.000	-8.600	13.509	2.519	1.864	2.790	3.291	3.377	252.646

Alignment C

Point no	Easting	Northing	RL
C 1	314789.774	5842637.089	253.258
C 2	314789.269	5842708.007	253.186
C 3	314787.575	5842699.006	253.275
C 4	314789.443	5842701.881	253.182
C 5	314780.079	5842705.216	253.193

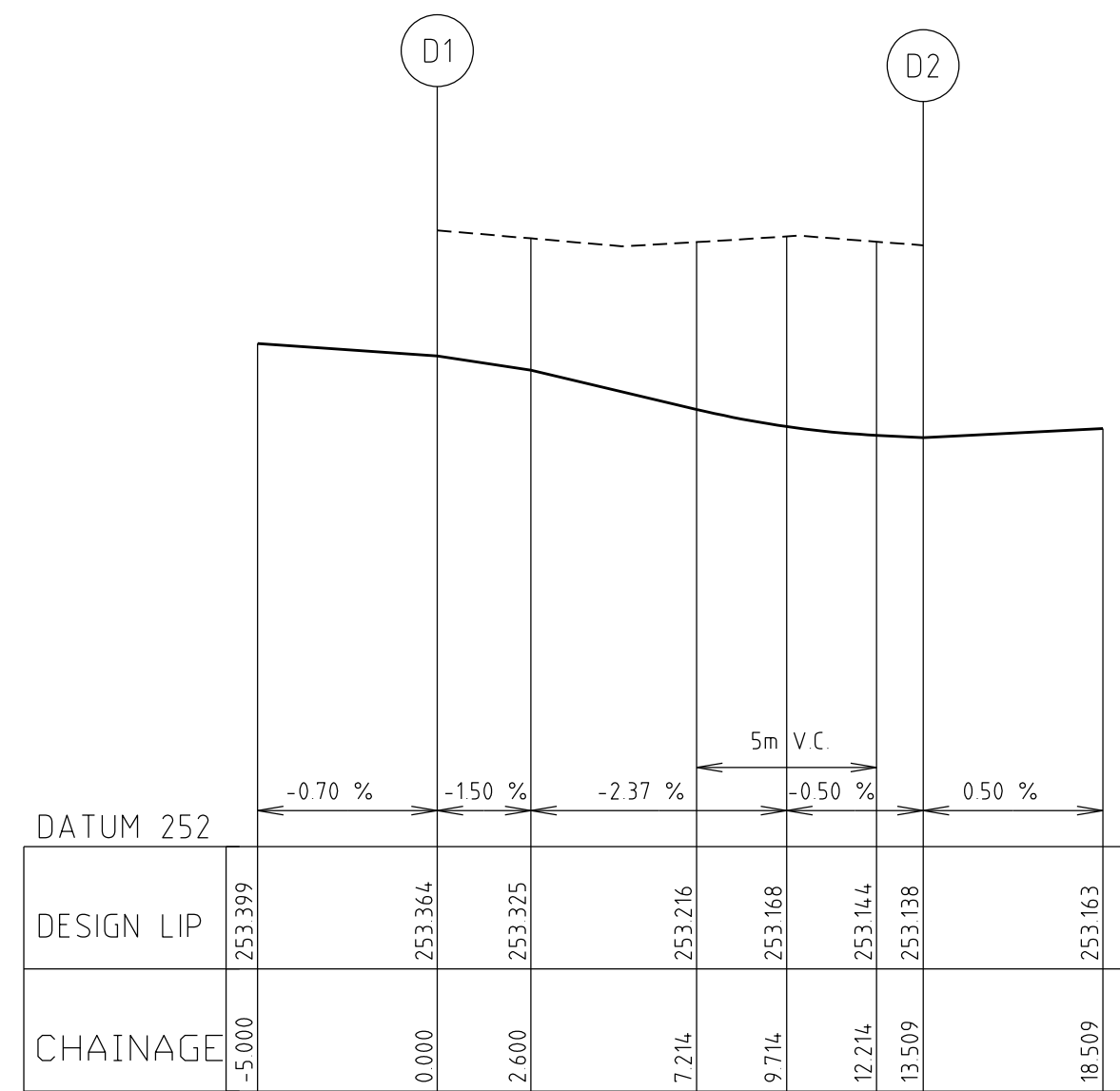


LIP LINE C

Curve no	L	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
C 1 2	-91.966	-8.600	13.804	2.624	1.941	2.825	3.359	3.451	253.182

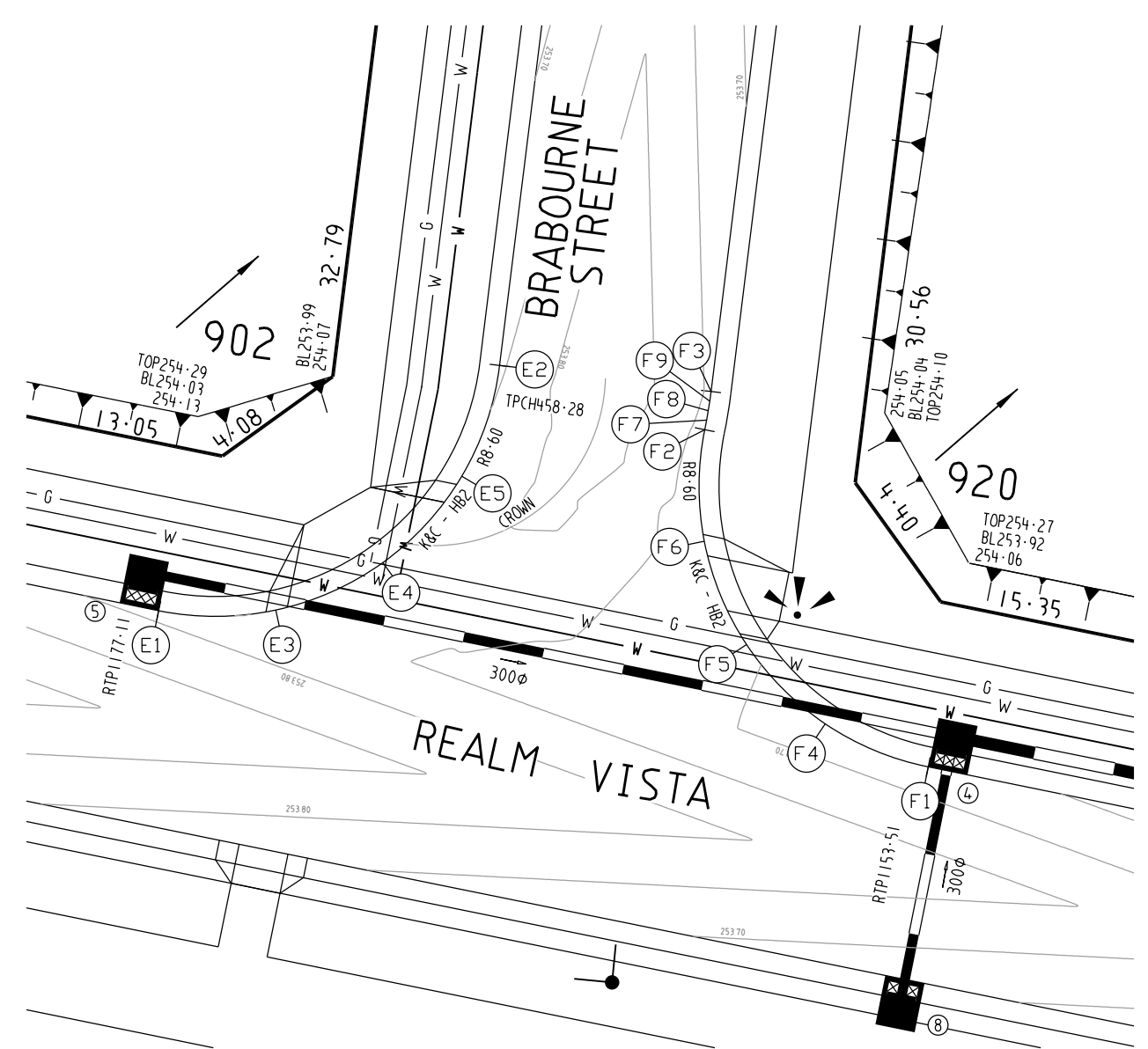
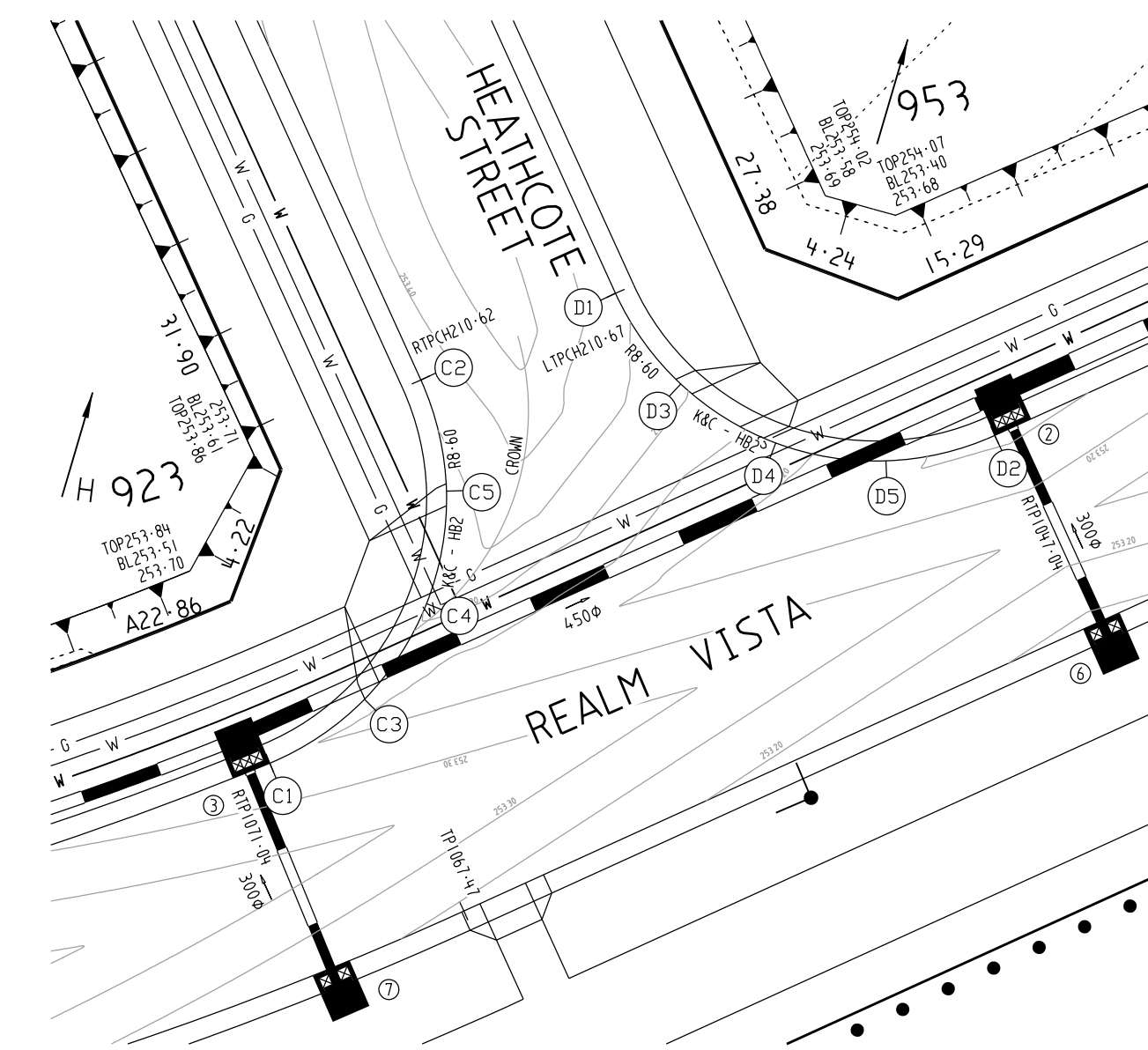
Alignment D

Point no	Easting	Northing	RL
D 1	314795.117	5842711.188	253.364
D 2	314806.107	5842706.913	253.186
D 3	314797.076	5842708.474	253.307
D 4	314799.429	5842706.707	253.227
D 5	314801.246	5842706.166	253.163



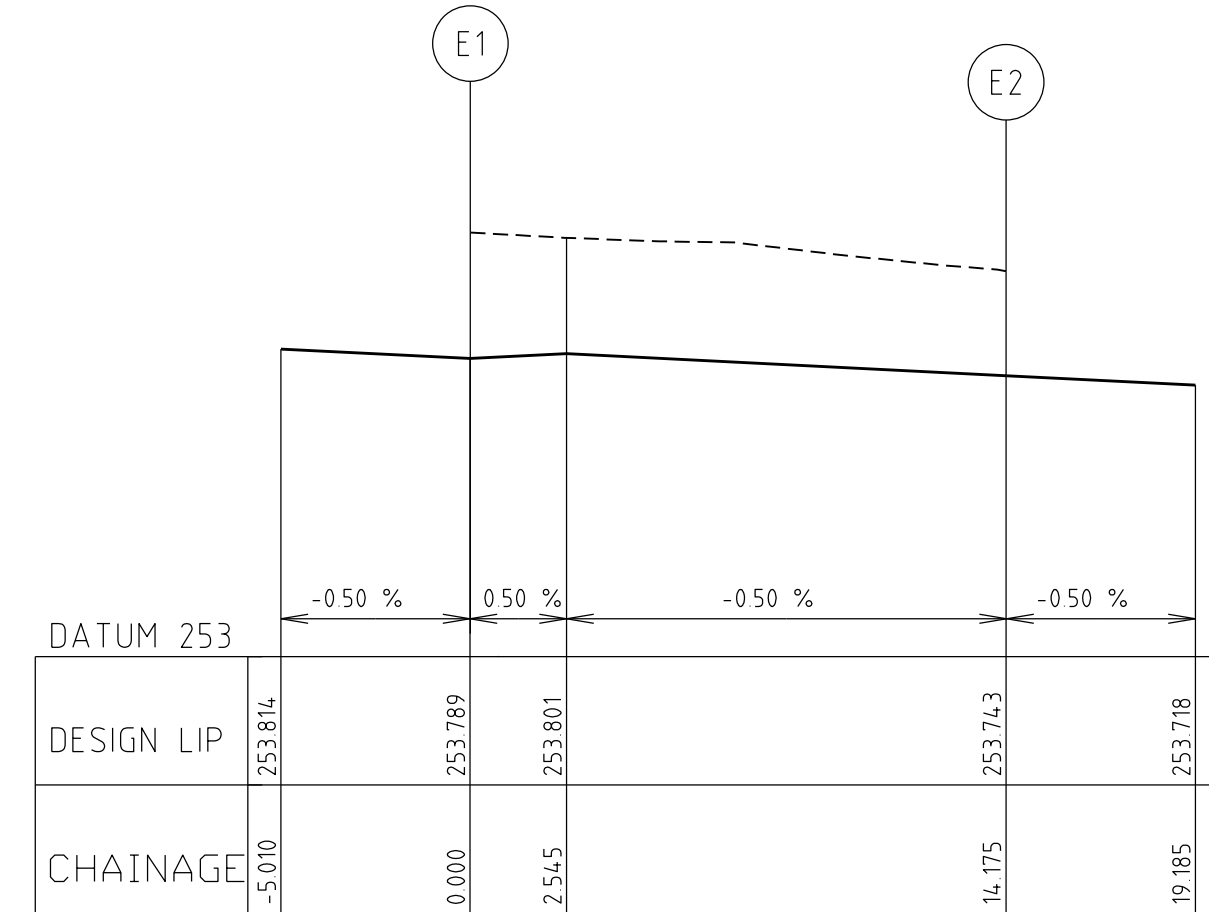
LIP LINE D

Curve no	L	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
D 1 2	-90.000	-8.600	13.509	2.519	1.864	2.790	3.291	3.377	253.227



Alignment E

Point no	Easting	Northing	RL
E 1	314682.600	5842700.238	253.389
E 2	314692.847	5842707.612	253.743
E 3	314686.118	5842700.258	253.796
E 4	314680.335	5842701.685	253.779
E 5	314691.710	5842704.281	253.761



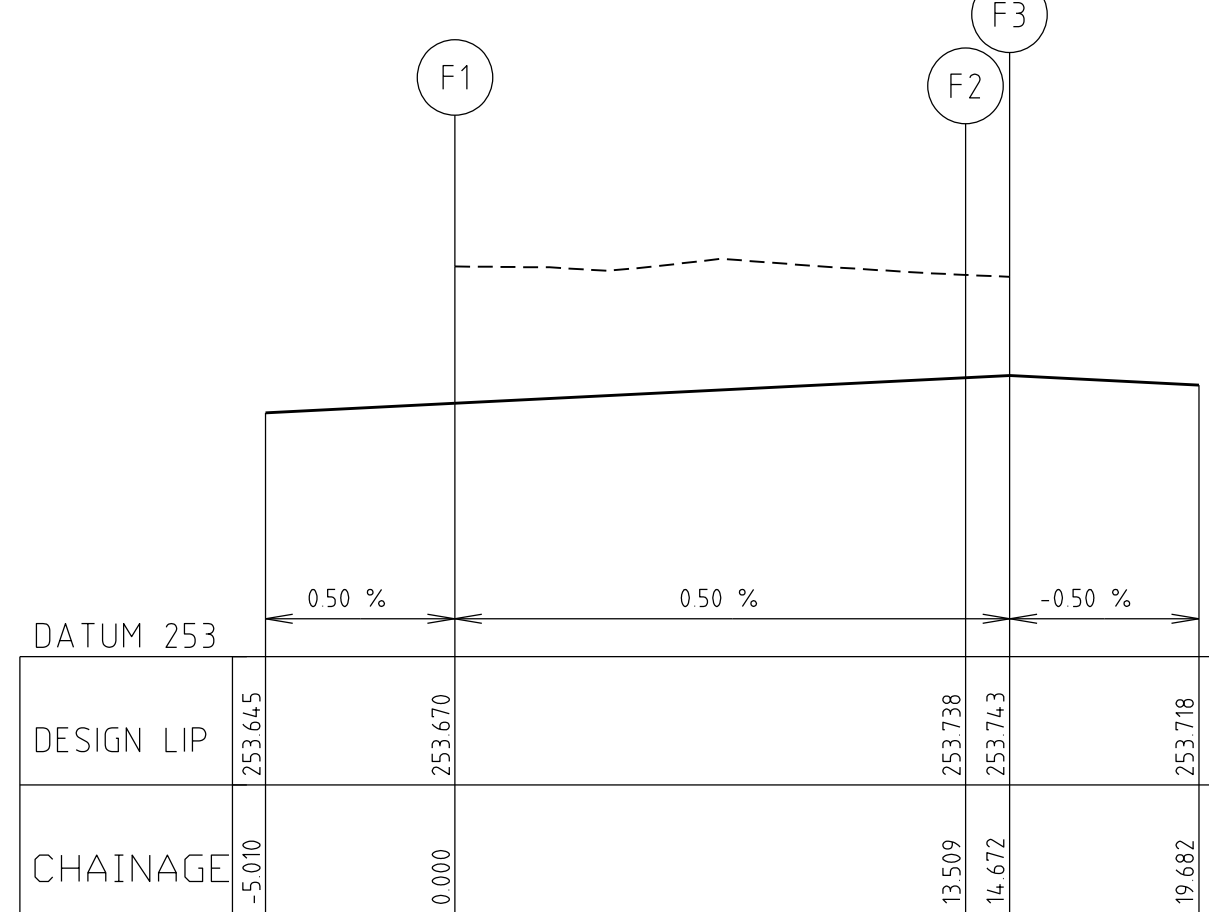
LIP LINE E

Curve no	L	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
E 1 2	-94.441	-8.600	14.175	2.759	2.039	2.868	3.444	3.544	253.779

LIP OF KERB PROFILES
SCALE: HORIZONTAL 1:200
VERTICAL 1:20

Alignment F

Point no	Easting	Northing	RL
F 1	314785.727	5842695.640	253.678
F 2	314699.011	5842705.680	253.738
F 3	314699.198	5842706.827	253.743
F 4	314702.652	5842696.837	253.687
F 5	314700.269	5842699.219	253.704
F 6	314698.086	5842702.324	253.721
F 7	314699.086	5842705.965	253.759
F 8	314699.116	5842706.252	253.740
F 9	314699.160	5842706.539	253.742



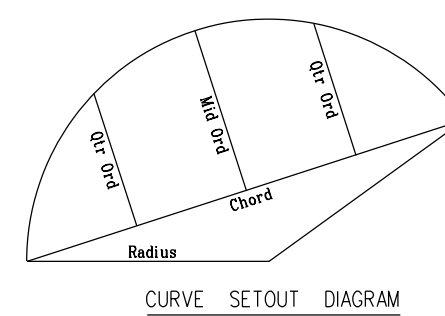
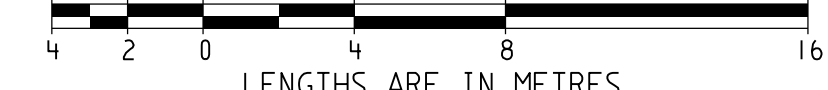
LIP LINE F

Curve no	L	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
F 1 2	90.000	8.600	13.509	2.519	1.864	2.790	3.291	3.377	253.704
F 2 3	-4.441	-15.000	1.163	0.011	0.008	0.291	0.291	0.291	253.740

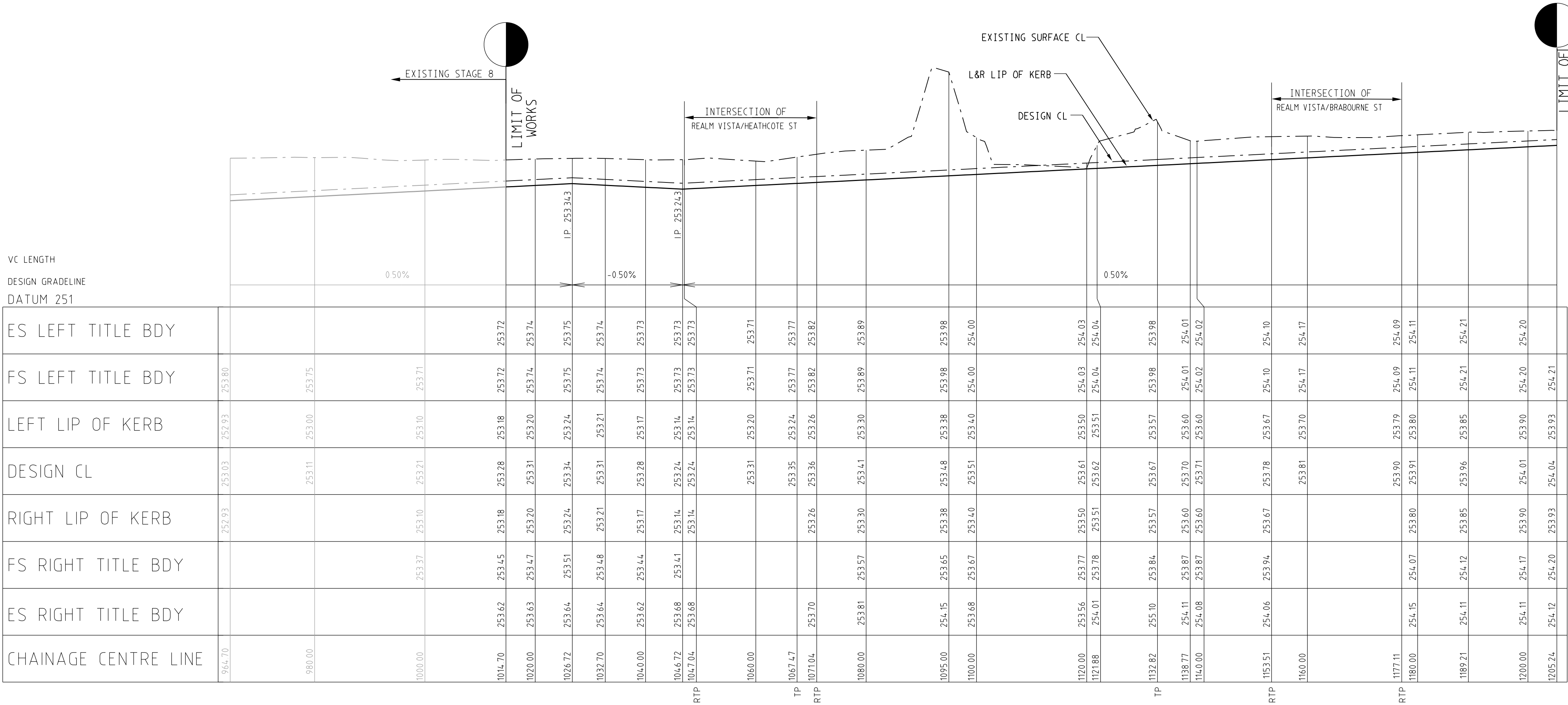
INTERSECTION DETAILS

SCALE 1:200

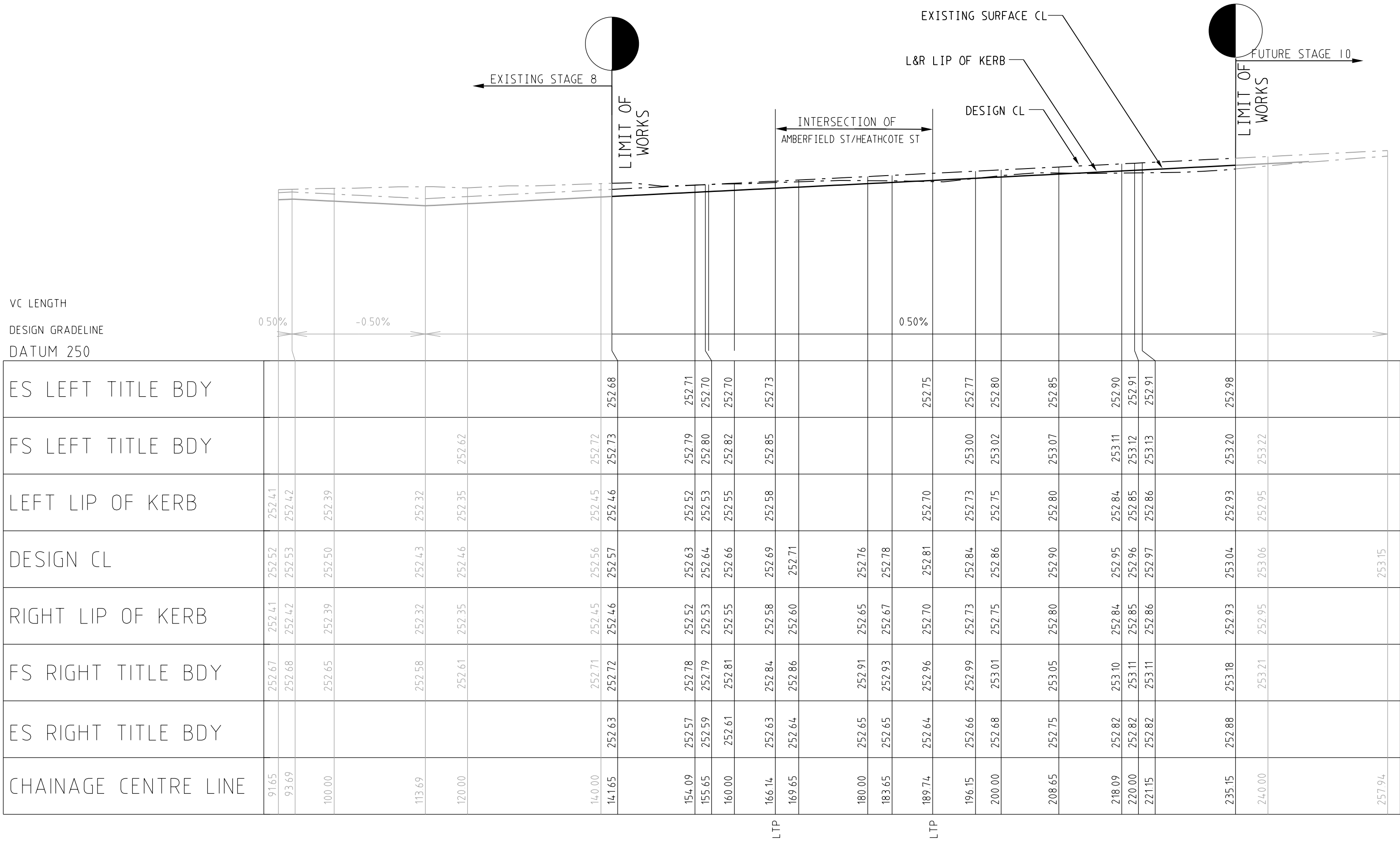
SCALE 1 : 200



AMENDMENTS				breese pitt dixon pty. ltd.		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310			
				land surveyors		civil engineers			
				MELWAY REF. 366-E-6		WARATAH ESTATE STAGE 9			
				SURVEY BPD		MUNICIPALITY HUME			
				DESIGN SBS		REFERENCE 8711 E/9			
				DRAWN TVT					
VER	DATE	REMARKS		CHECKED	SCALE AS SHOWN	DATUM AHD	DATE AUG' 17	SHEET 3 OF 12	A



REALM VISTA

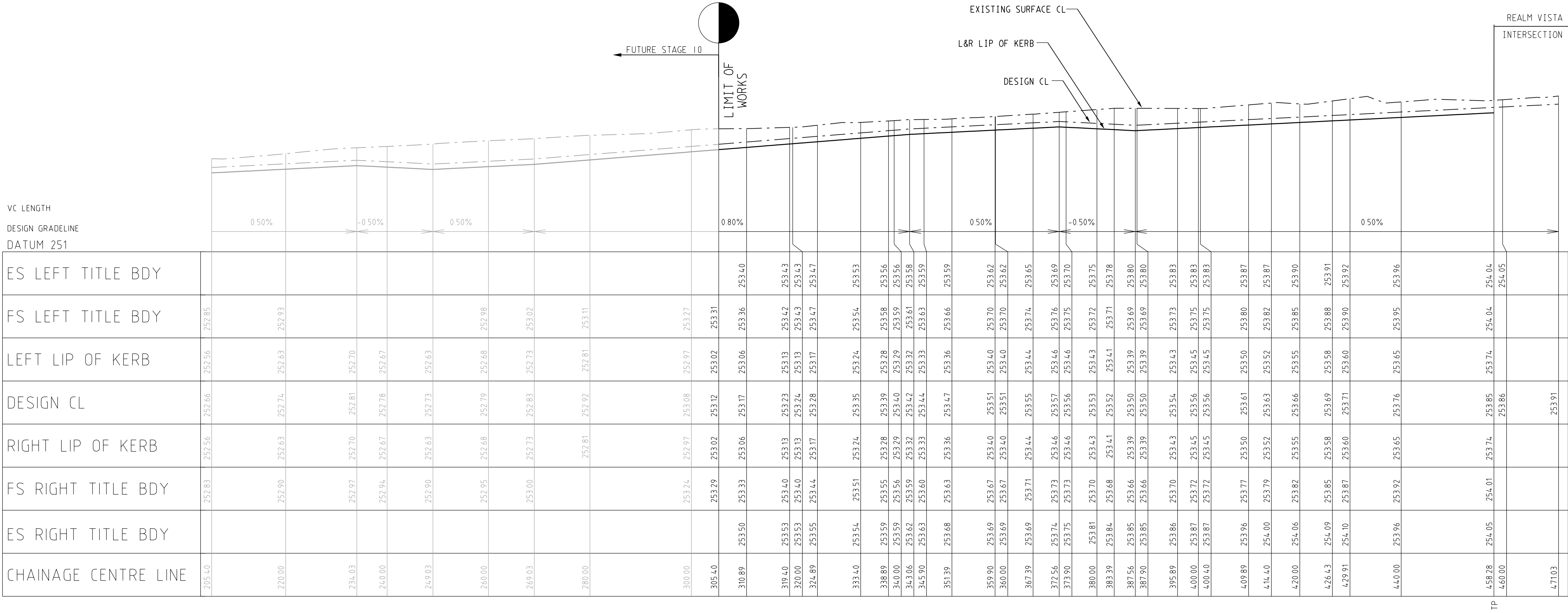


AMBERFIELD STREET

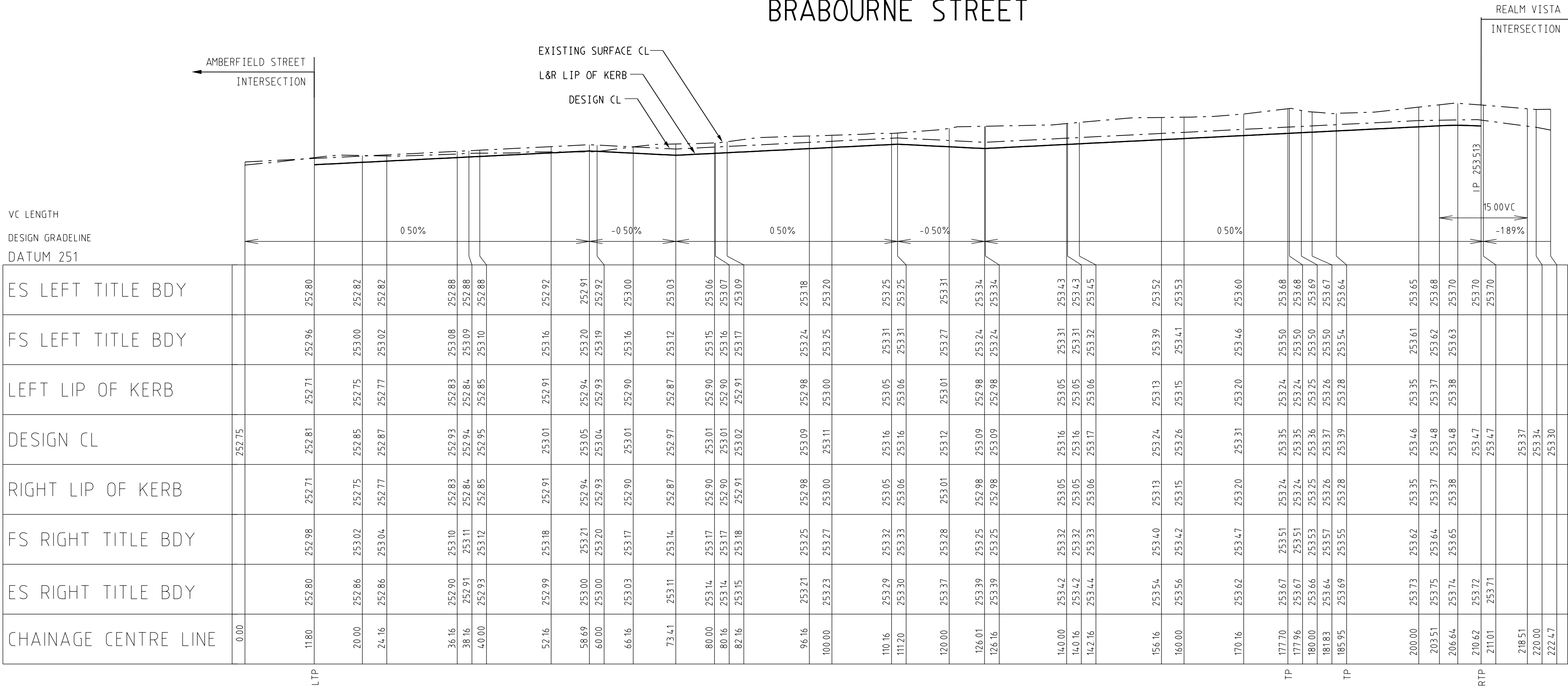
LONGITUDINAL SECTION

SCALE HORIZONTAL 1:500
VERTICAL 1:50

AMENDMENTS					breese pitt dixon pty. ltd.		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310					
					land surveyors		civil engineers					
					WARATAH ESTATE STAGE 9		MUNICIPALITY HUME					
					REFERENCE 8711 E/9							
VER	DATE	REMARKS	CHECKED	SCALE	AS SHOWN	DATUM	AHD	DATE	AUG' 17	SHEET	4 OF 12	A



BRABOURNE STREET

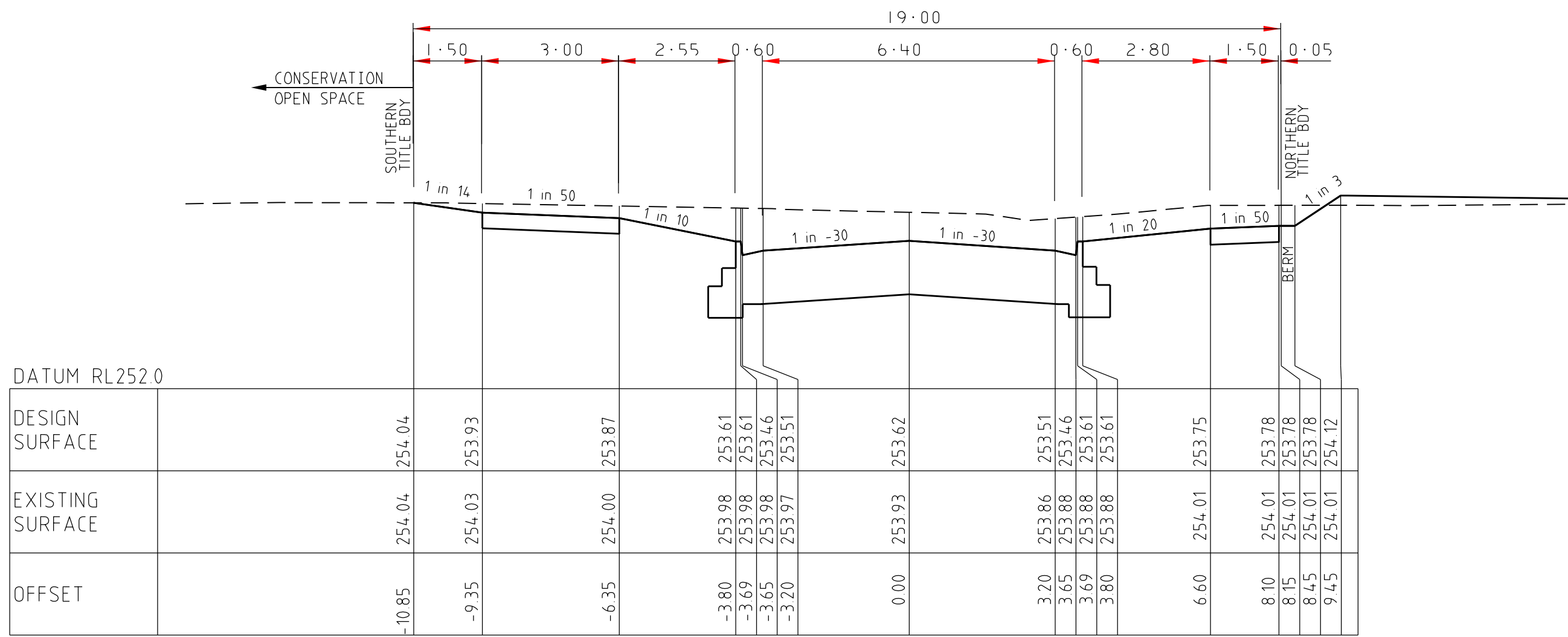


HEATHCOTE STREET

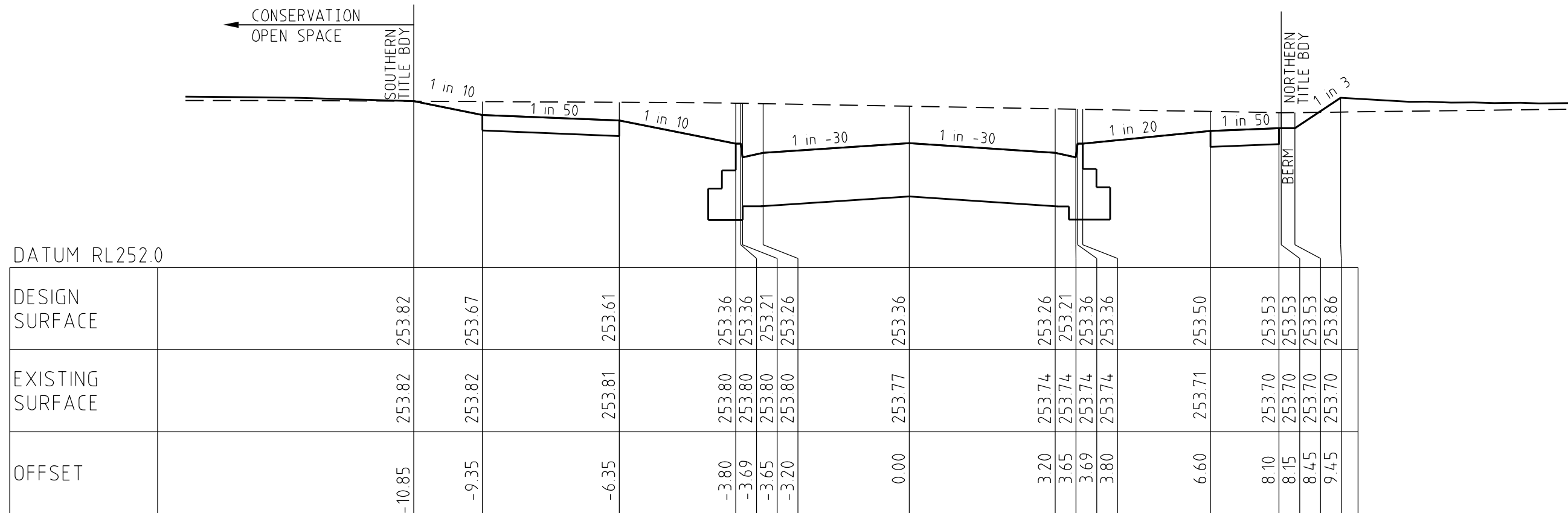
LONGITUDINAL SECTION

SCALE HORIZONTAL 1:500
VERTICAL 1:50

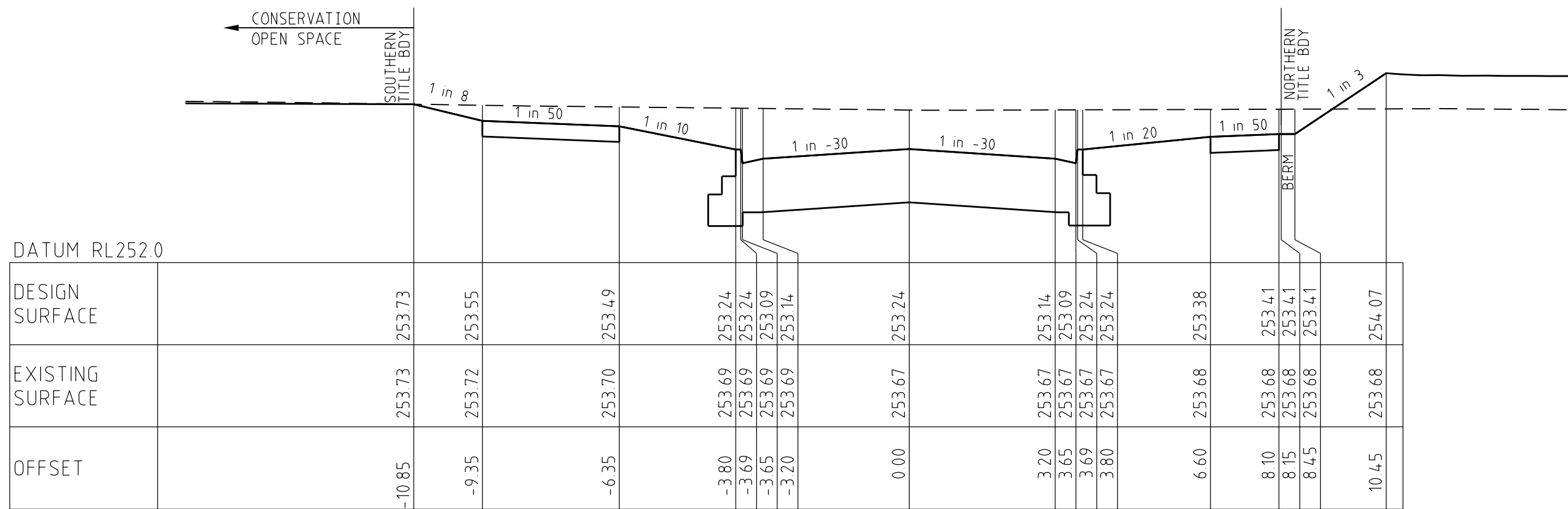
AMENDMENTS		MELWAY REF. 366-E-6		breese pitt dixon pty. ltd. land surveyors		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		SURVEY BPD		WARATAH ESTATE STAGE 9		MUNICIPALITY HUME	
		DESIGN SBS				REFERENCE 8711 E/9	
		DRAWN TVT				SHEET 5 OF 12	
A 22/11/17		CONSTRUCTION ISSUE		CHECKED		DATE AUG' 17	
VER		DATE		REMARKS		SCALE AS SHOWN	
						DATUM AHD	
						DATE AUG' 17	
						SHEET 5 OF 12	
						A	



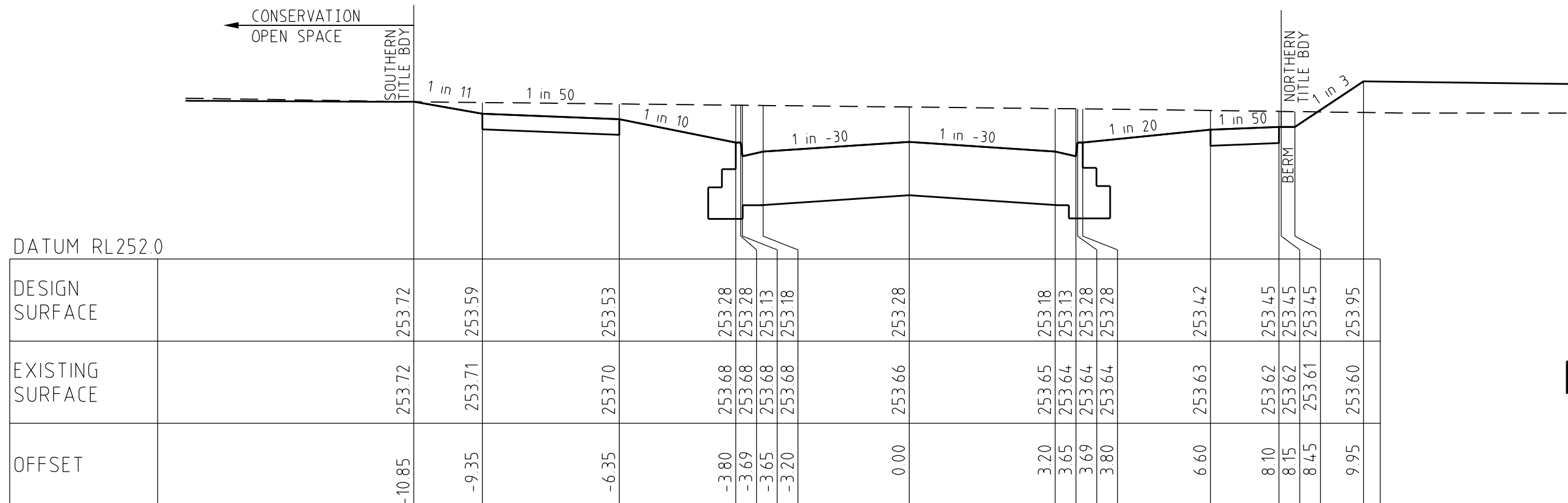
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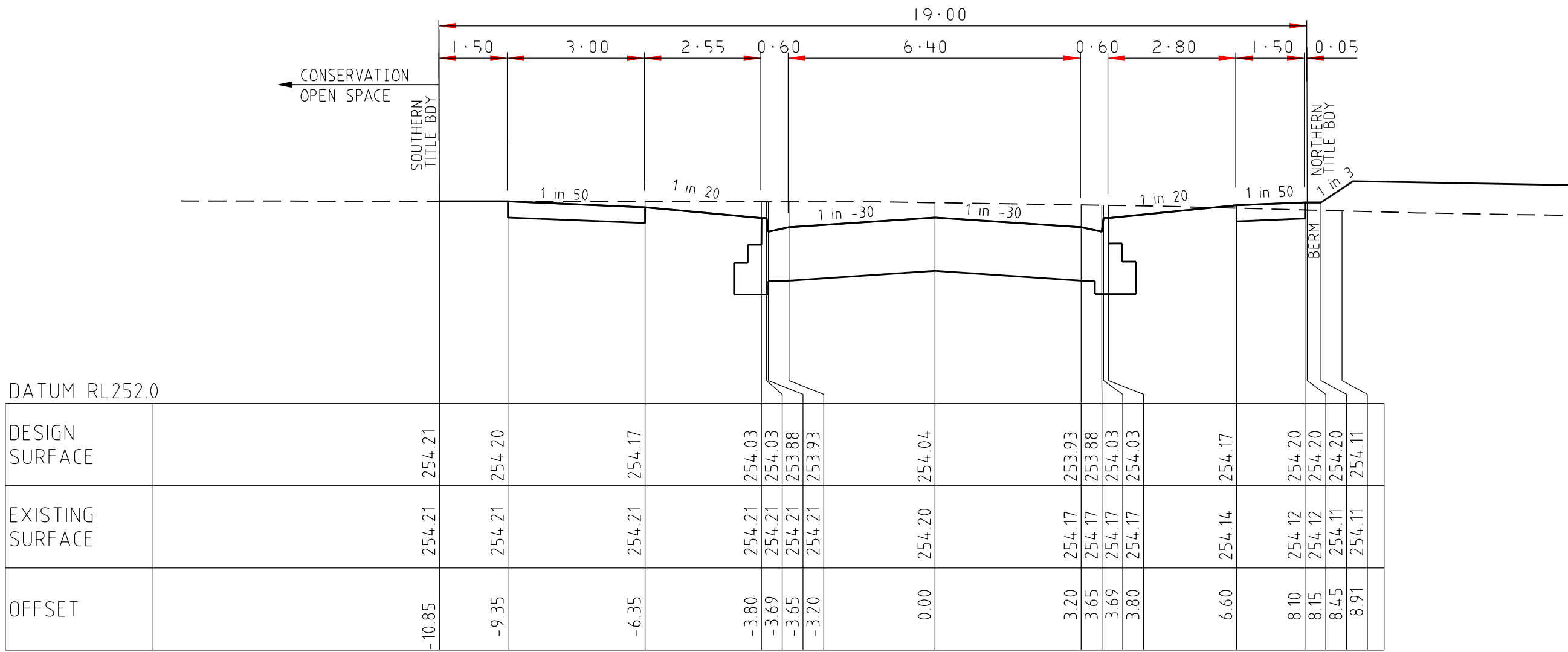


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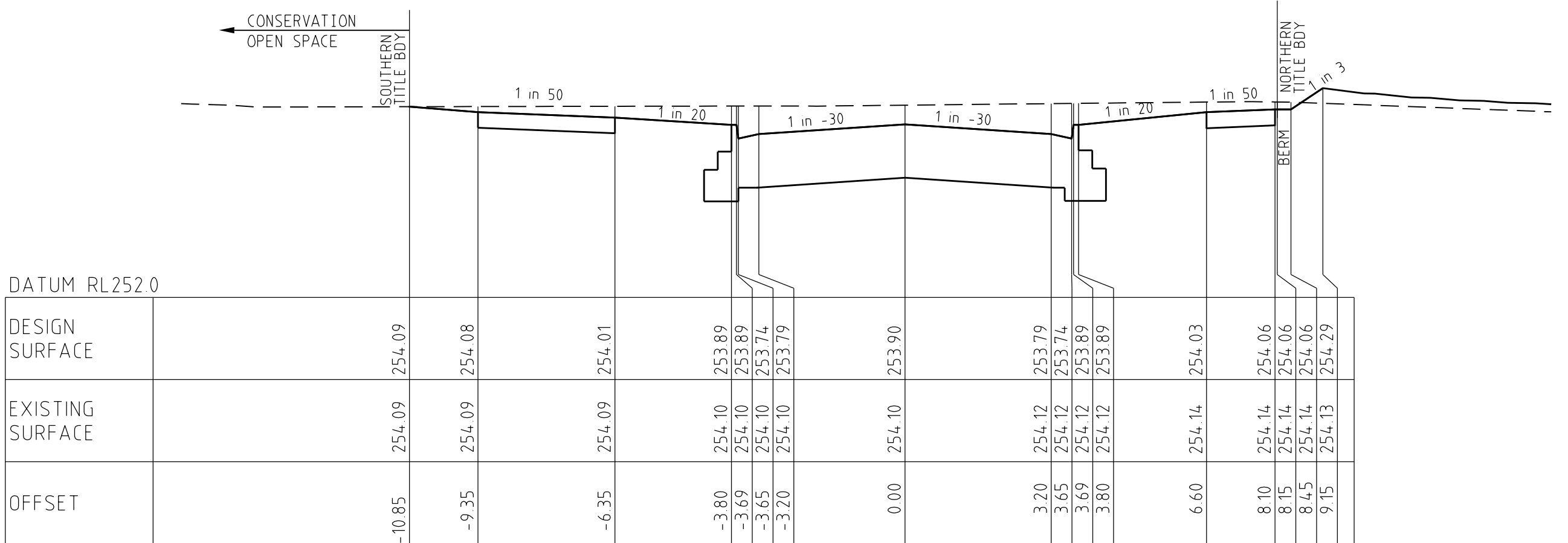
REALM VISTA

CROSS SECTIONS

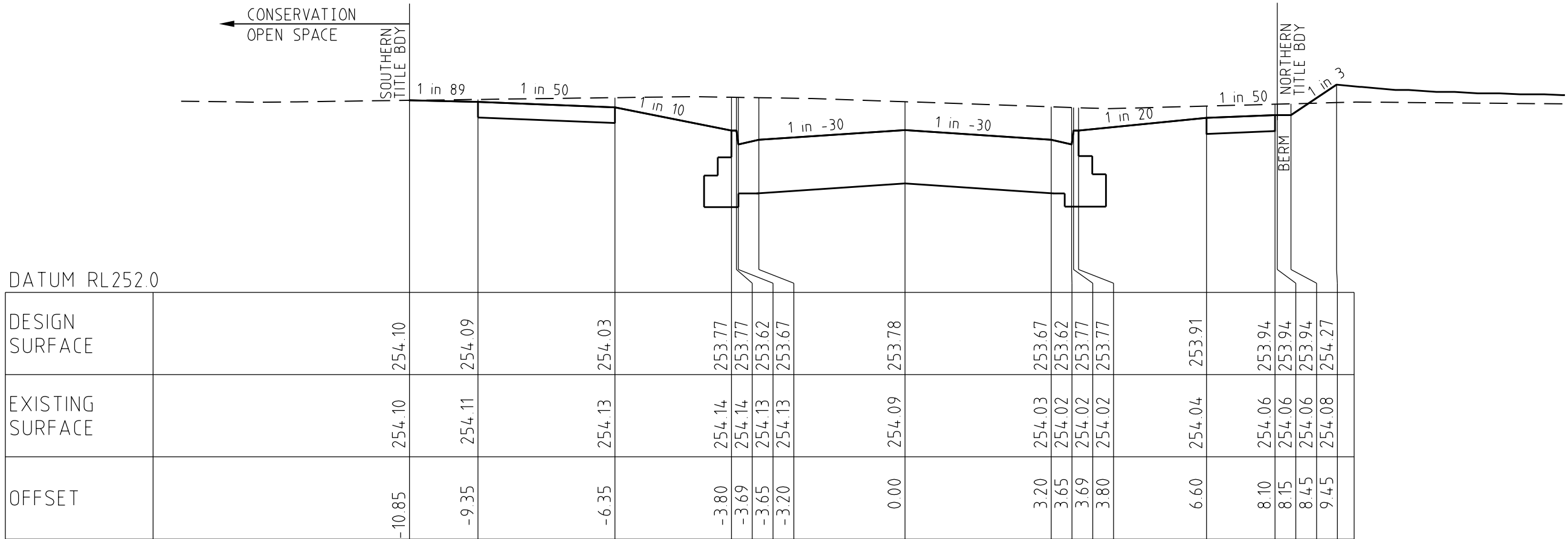
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VERTICAL 1:50



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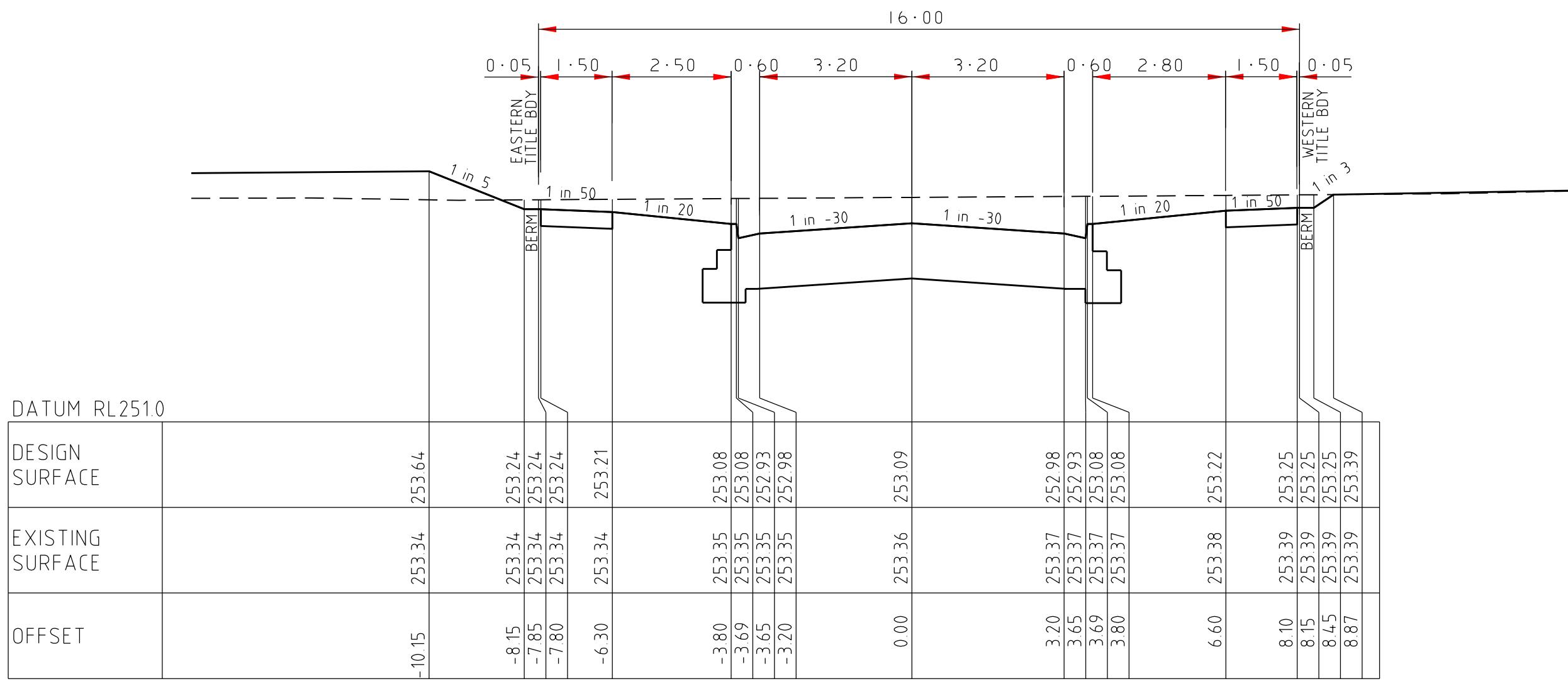


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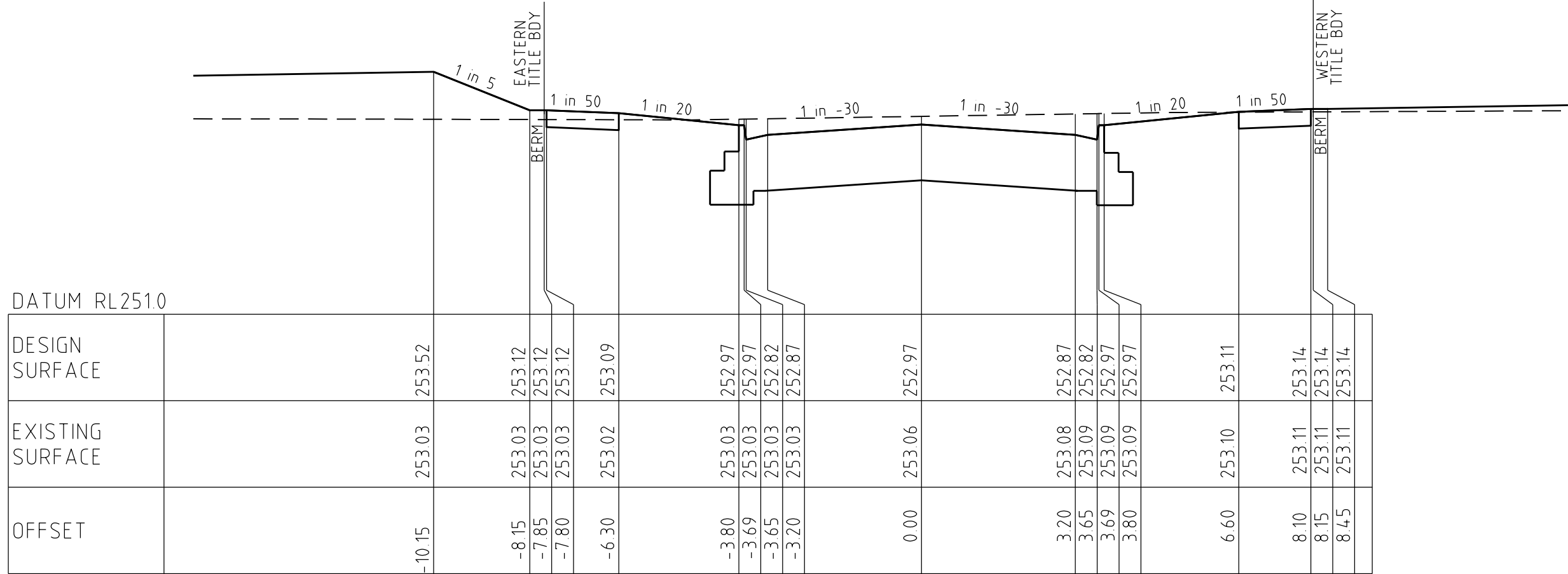


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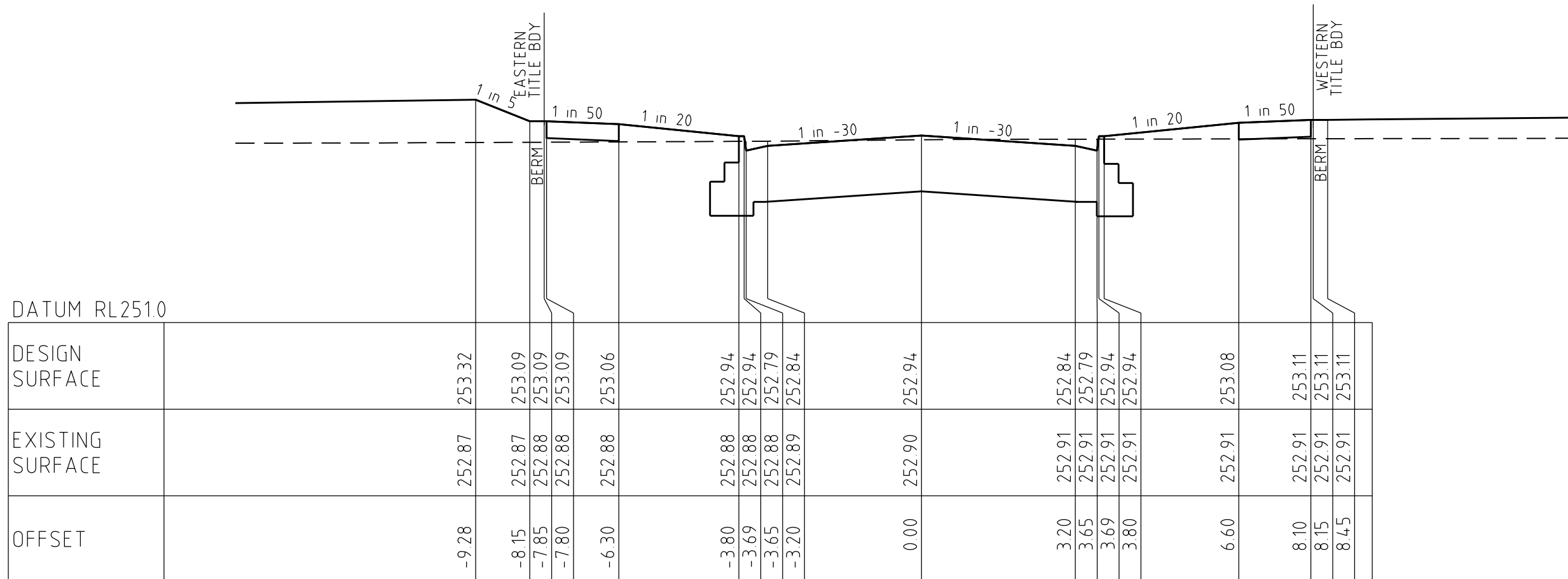
AMENDMENTS				breese pitt dixon Pty. Ltd.		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310								
				land surveyors		civil engineers								
				WARATAH ESTATE STAGE 9		MUNICIPALITY HUME								
						REFERENCE 8711 E/9								
VER	DATE	REMARKS	CHECKED	SCALE	AS SHOWN	DATUM	AHD	DATE	AUG' 17	SHEET	6	OF	12	A
A	22/11/17	CONSTRUCTION ISSUE		MELWAY REF.	366-E-6									
				SURVEY	BPD									
				DESIGN	SBS									
				DRAWN	TVT									



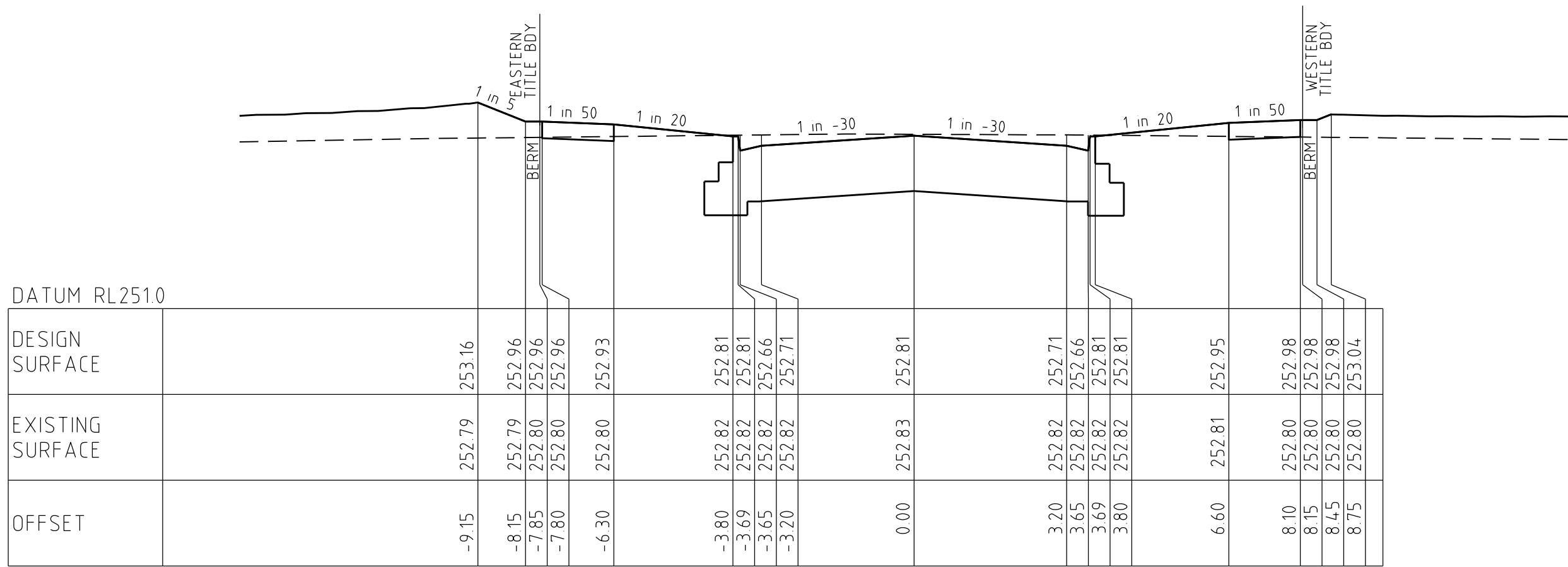
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OFFSET	10.15



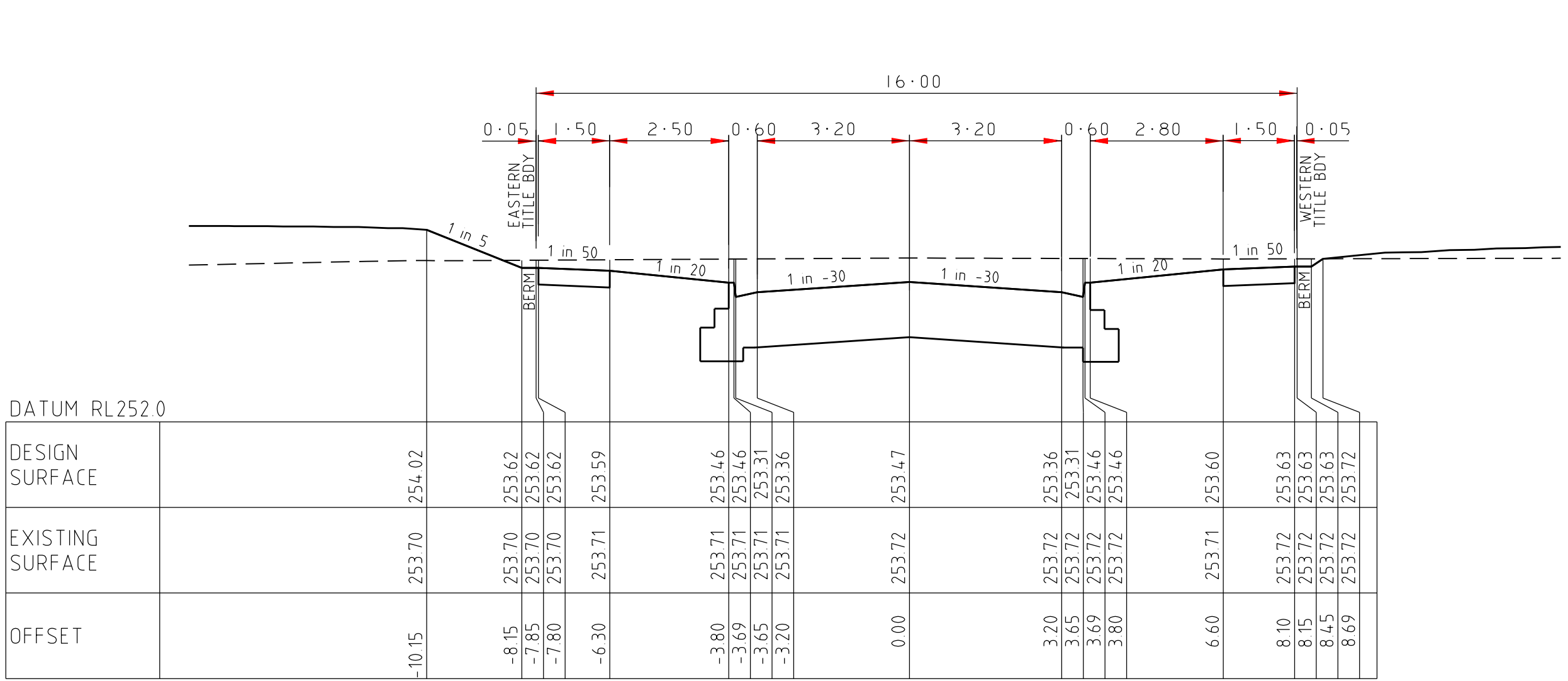
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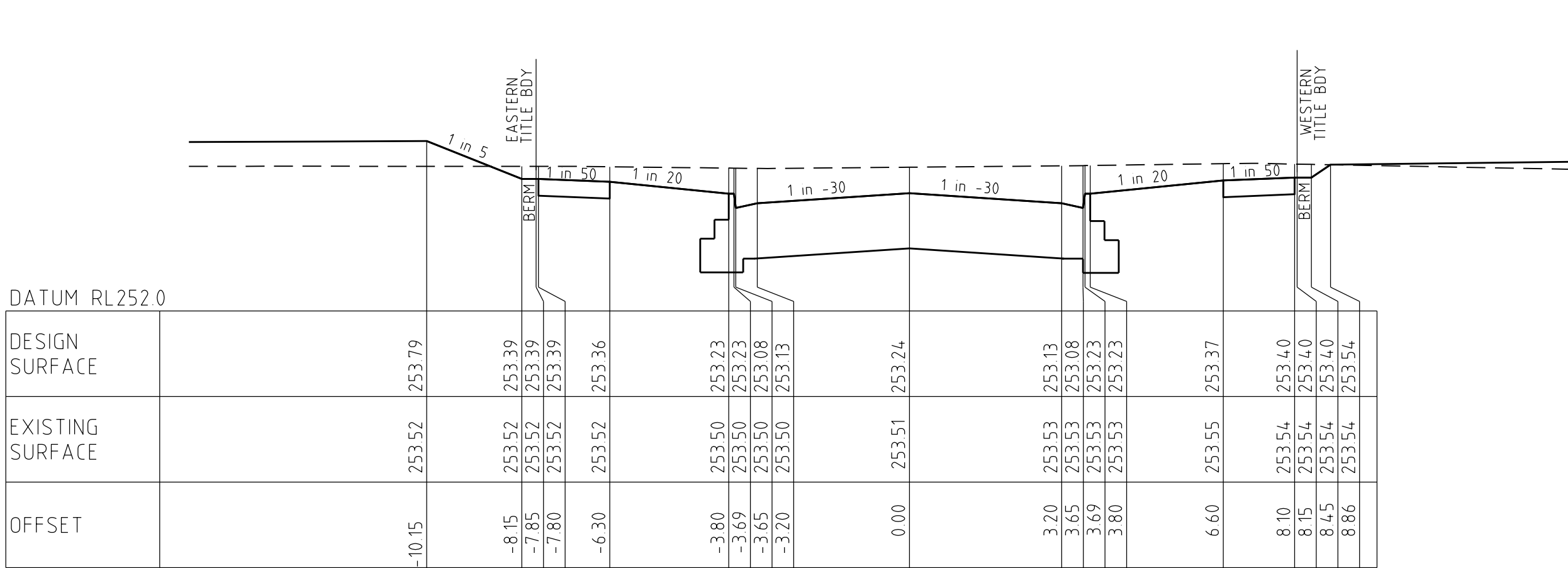
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OFFSET	10.15



DATUM RL2520	
DESIGN SURFACE	254.02
EXISTING SURFACE	253.70
OFFSET	10.15



DATUM RL2520	
DESIGN SURFACE	253.79
EXISTING SURFACE	253.52
OFFSET	10.15

HEATHCOTE STREET

CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

AMENDMENTS

VER	DATE	REMARKS
A	22/11/17	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
land surveyors

MELWAY REF. 366-E-6

SURVEY BPD

DESIGN SBS

DRAWN TVT

CHECKED

SCALE AS SHOWN

DATUM AHD

DATE AUG' 17

WARATAH ESTATE
STAGE 9

MUNICIPALITY HUME

REFERENCE 8711 E/9

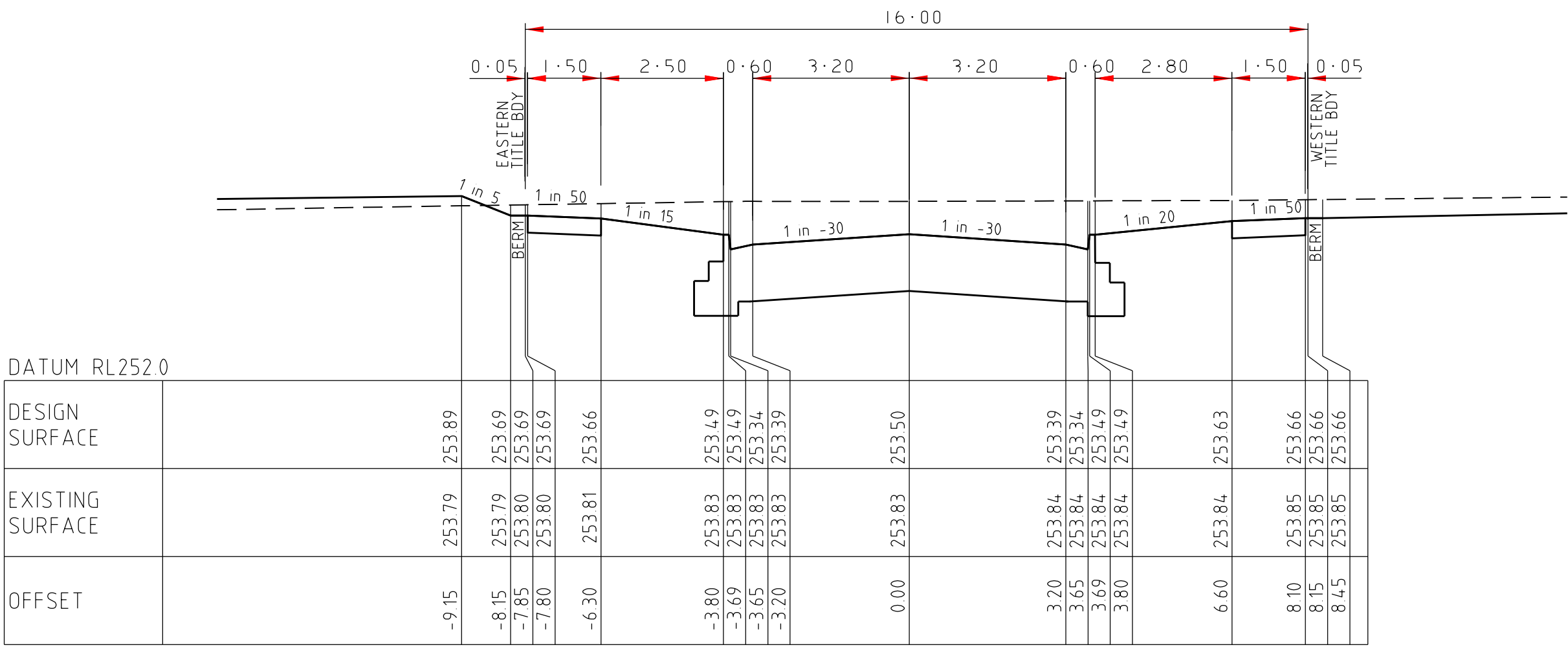
SHEET 8 OF 12

A

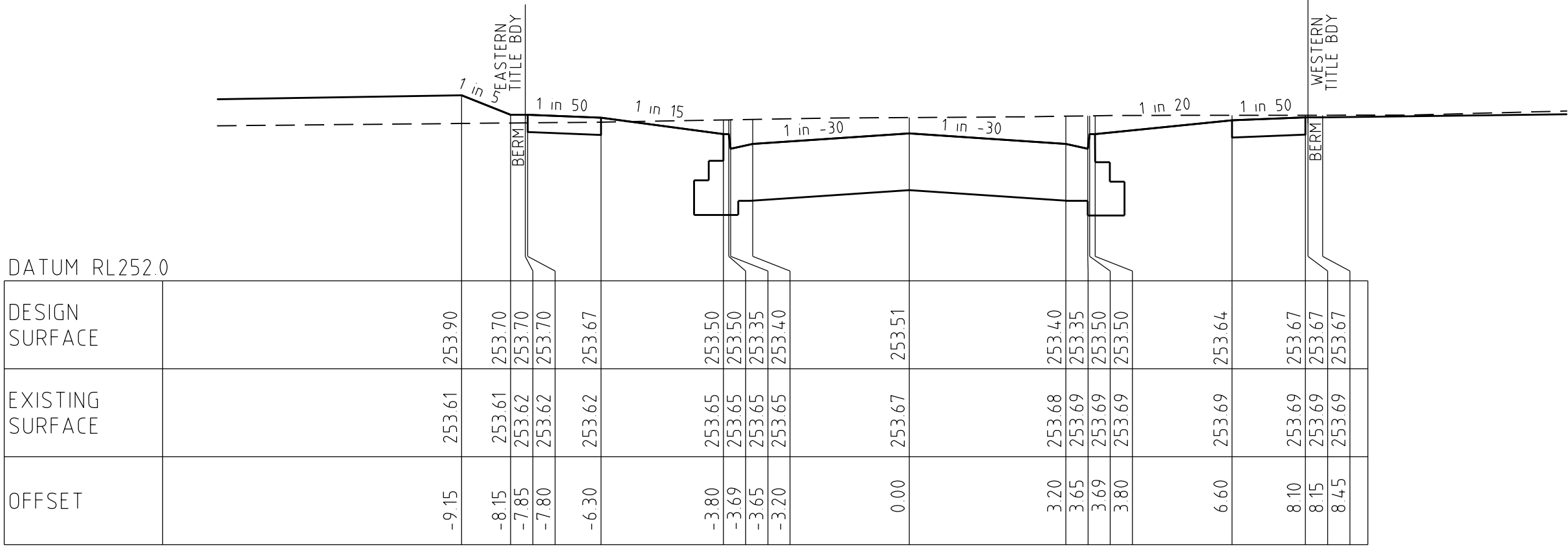
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

Page 22/11/2017

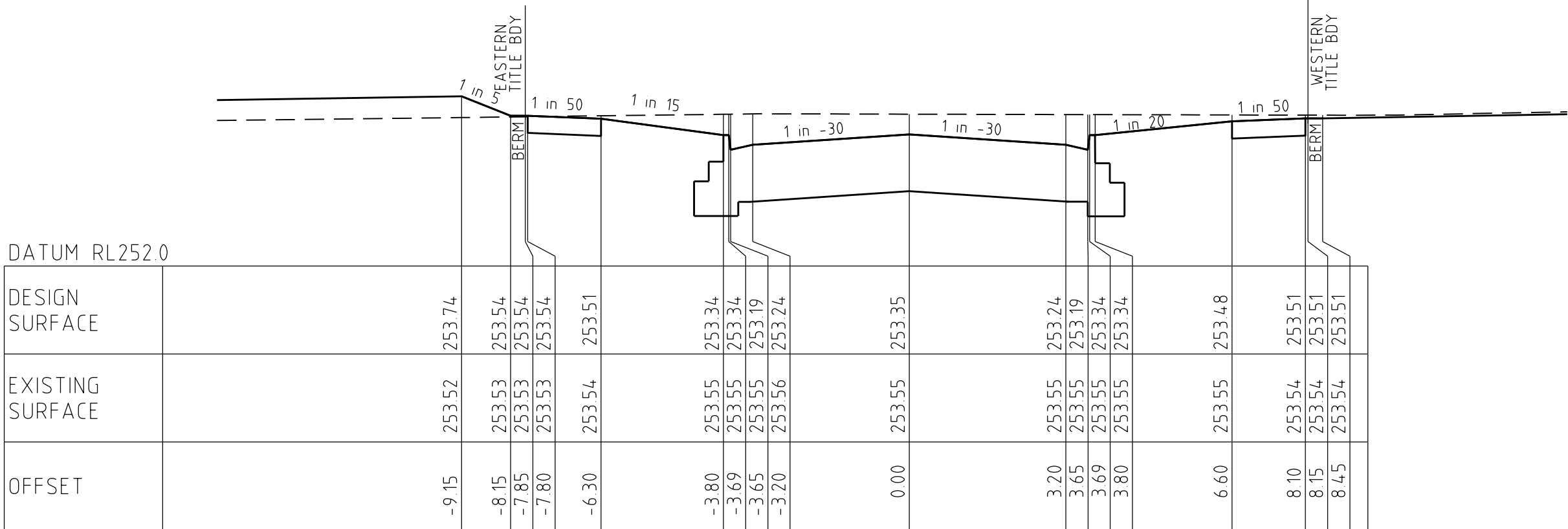
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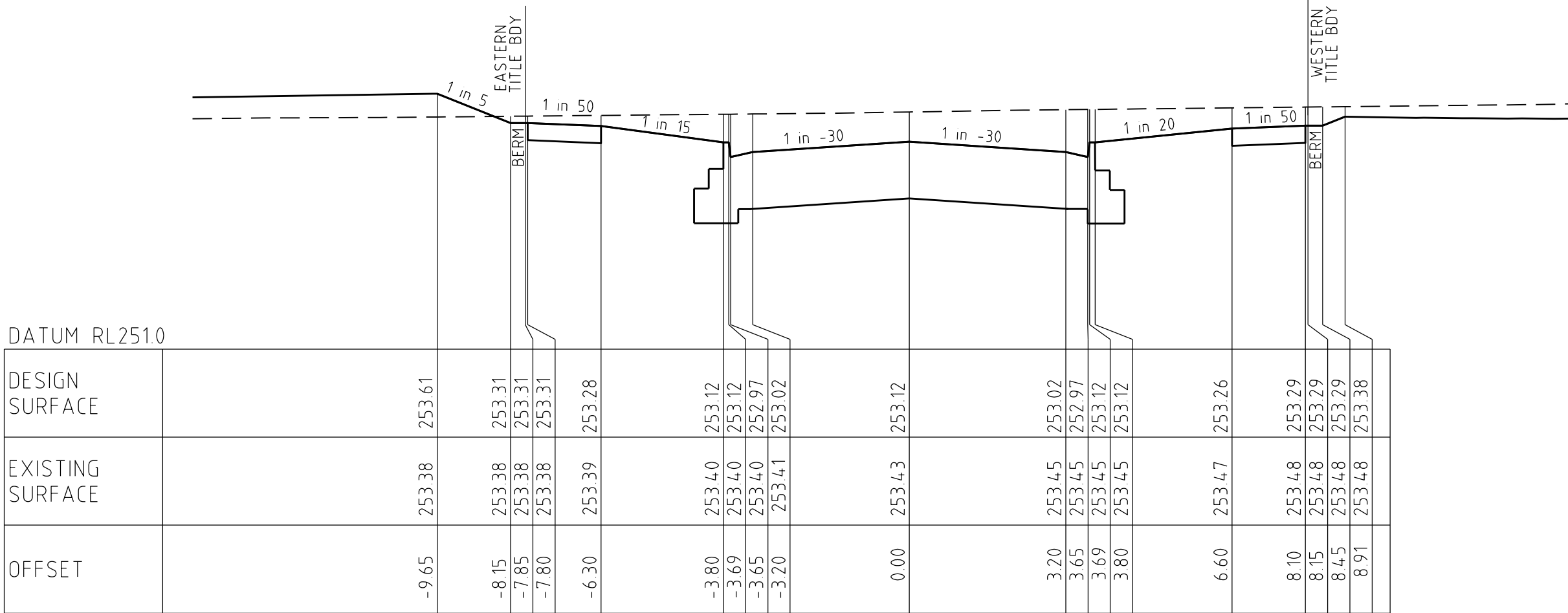
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OFFSET	



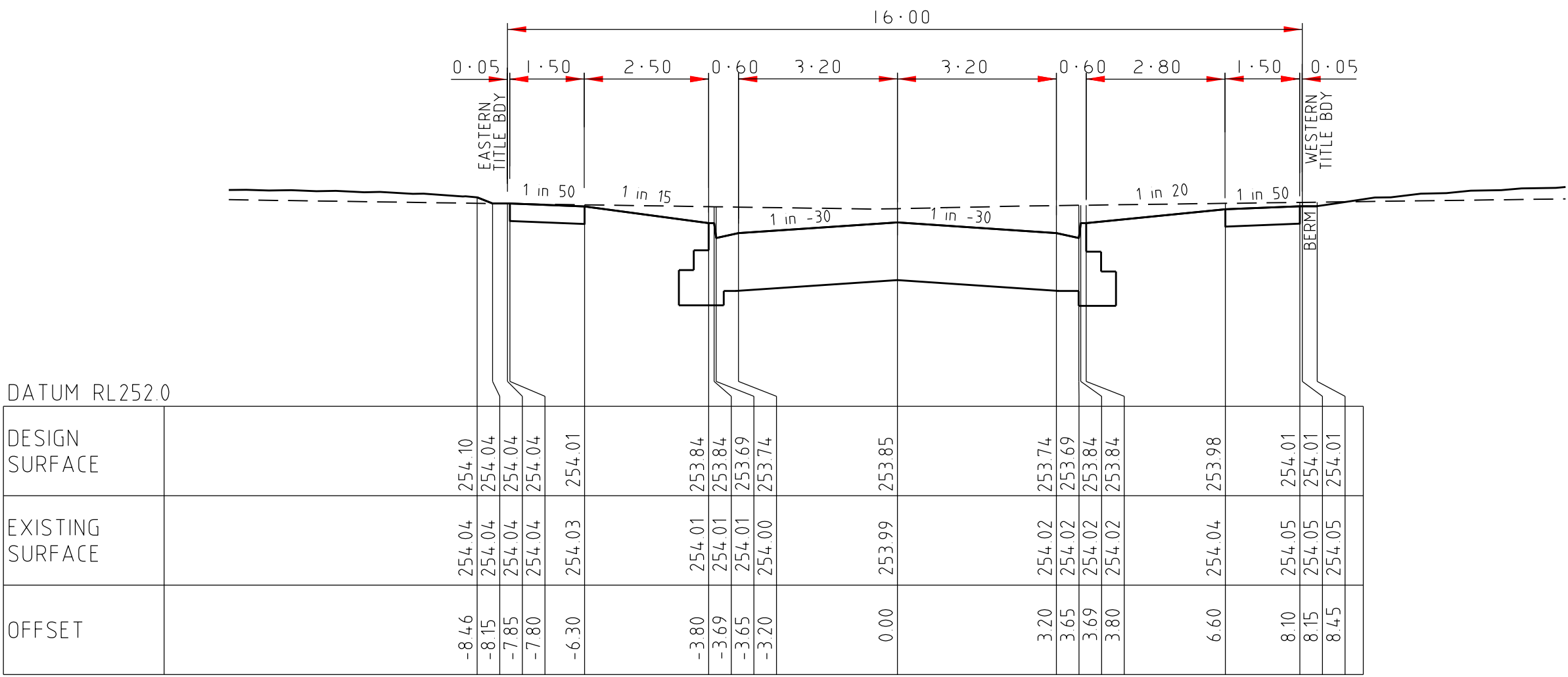
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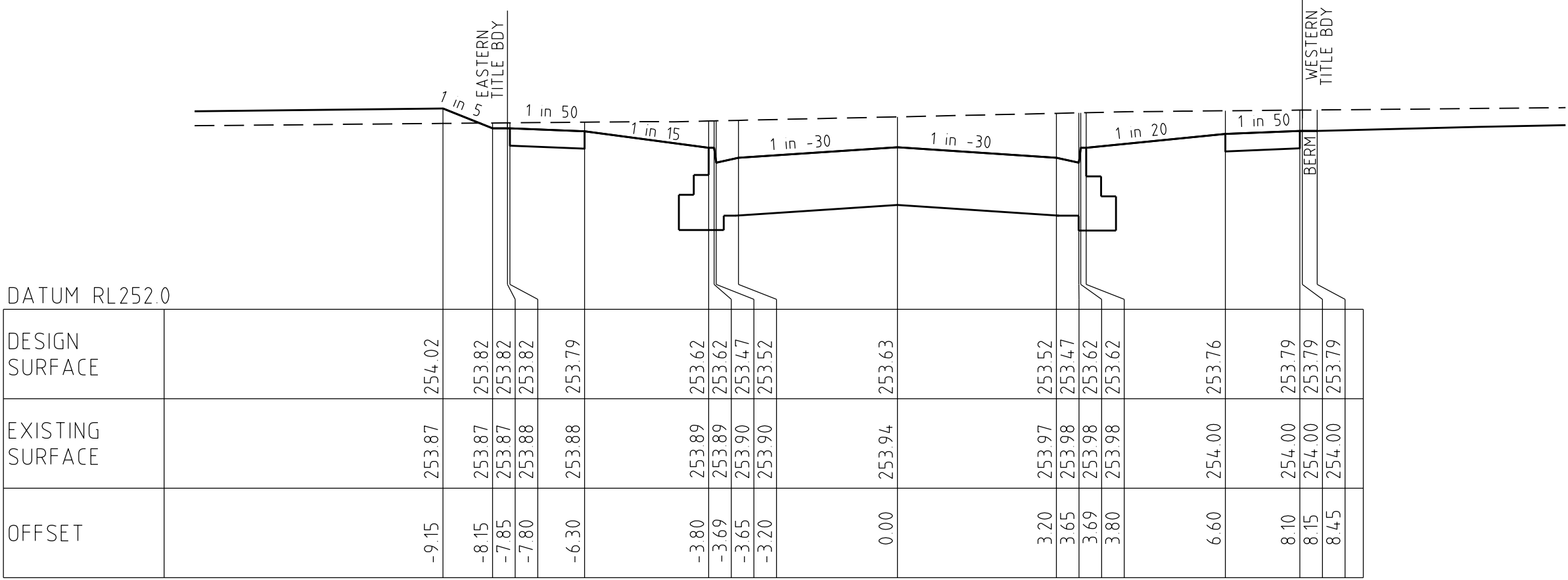
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DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	



DATUM RL251.0	
DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	



DATUM RL252.0	
DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	



DATUM RL252.0	
DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	

BRABOURNE STREET
CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50

AMENDMENTS

VER	DATE	REMARKS
A	22/11/17	CONSTRUCTION ISSUE

MELWAY REF. 366-E-6

SURVEY BPD

DESIGN SBS

DRAWN TVT

CHECKED

breese pitt dixon pty. ltd.

land surveyors

civil engineers

1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

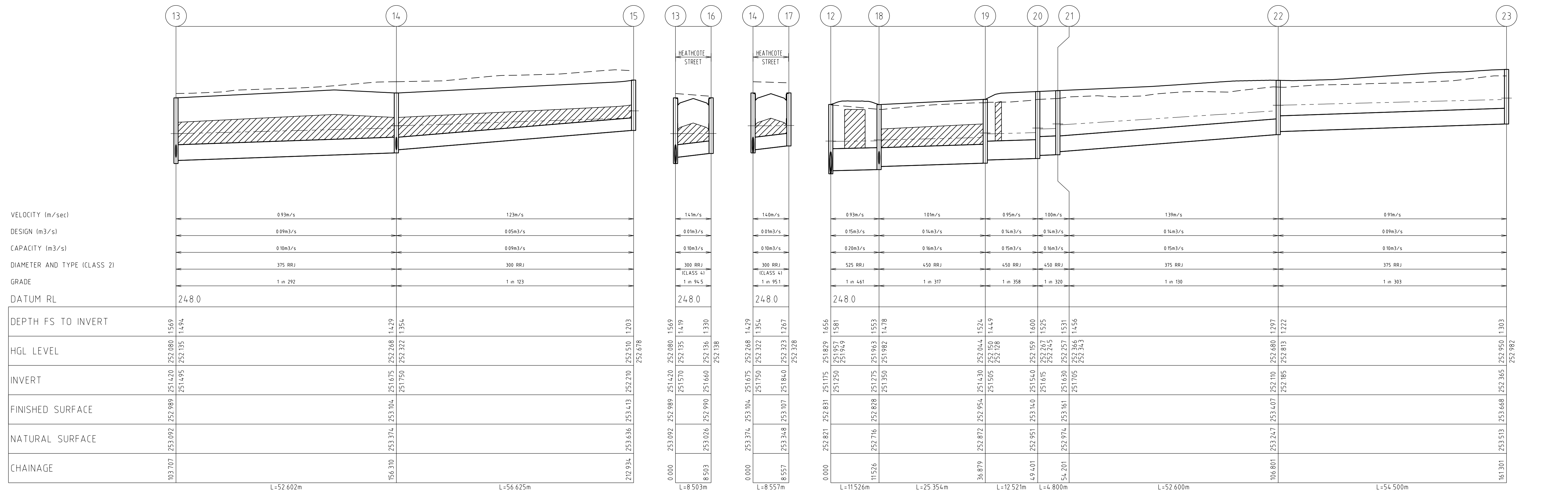
WARATAH ESTATE
STAGE 9

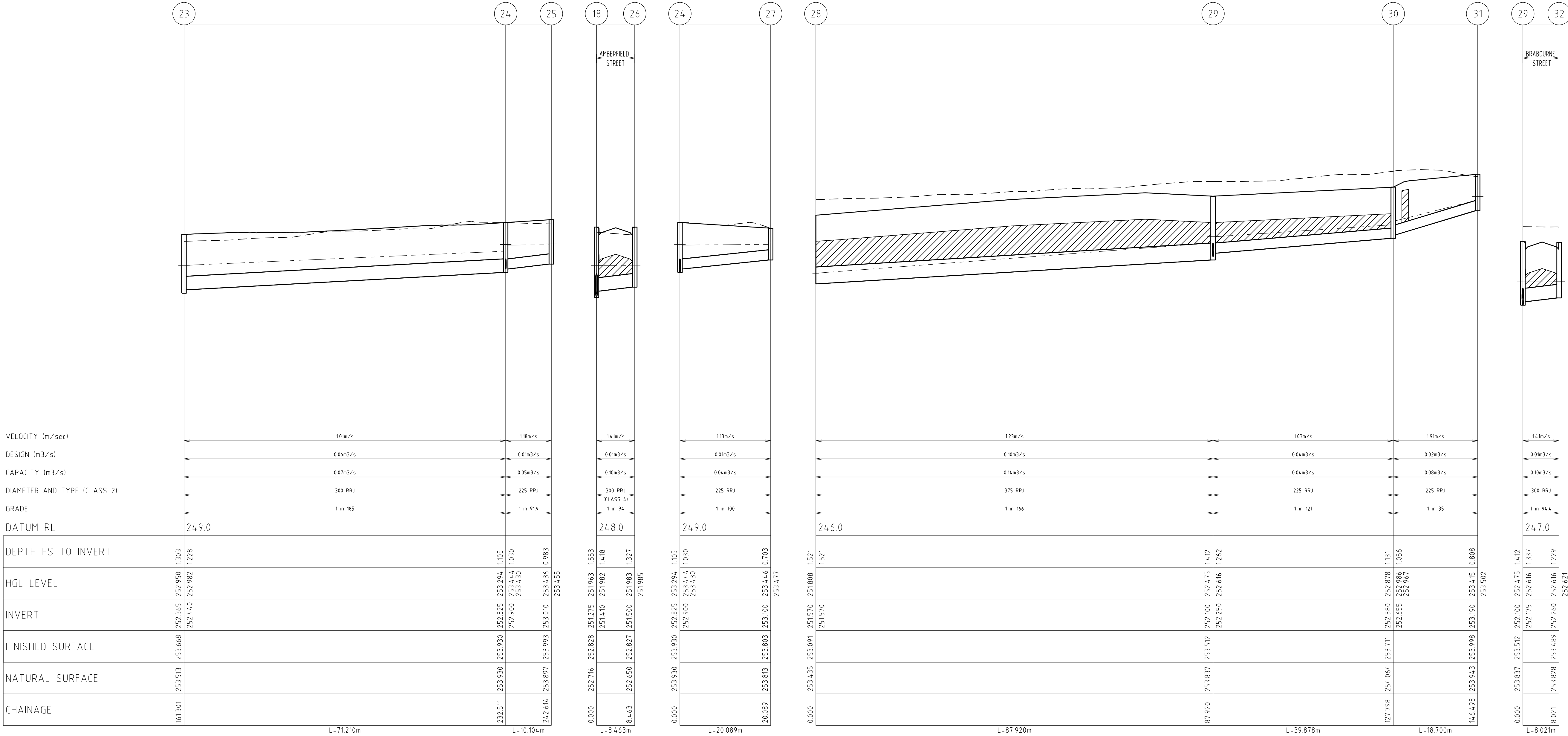
REFERENCE 8711 E/9

MUNICIPALITY HUME

SHEET 9 OF 12

A



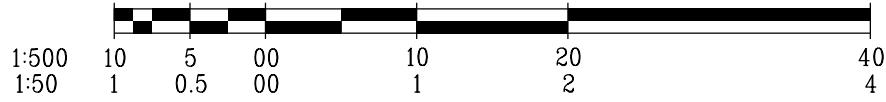


PIT SCHEDULE										
PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET		OUTLET		TOP	DEPTH	REMARKS
				INVERT	DIA	INVERT	DIA	PIT RL	INVERT	
1	END PIPE			251.490	525			253.304	1.814	CONNECT TO EXISTING ENDPipe
2	GRATED ENTRY PIT (HB2)	900	900	251.700	450	251.625	525	253.260	1.635	VPA GAA STD DWG EDCM603&607
				251.850	300					HAUNCHED PIT, COVER TO 900 x 600
3	GRATED ENTRY PIT (HB2)	900	600	251.895	375	251.820	450	253.384	1.564	VPA GAA STD DWG EDCM603
				251.974	300					
4	GRATED ENTRY PIT (HB2)	900	600	252.225	300	252.150	375	253.790	1.640	VPA GAA STD DWG EDCM603
				252.225	300					
5	GRATED ENTRY PIT (HB2)	900	600			252.475	300	253.914	1.439	VPA GAA STD DWG EDCM603
6	GRATED ENTRY PIT (HB2)	900	600			251.940	300	253.279	1.339	VPA GAA STD DWG EDCM603
7	GRATED ENTRY PIT (HB2)	900	600			252.120	300	253.402	1.282	VPA GAA STD DWG EDCM603
8	GRATED ENTRY PIT (HB2)	900	600			252.320	300	253.813	1.493	VPA GAA STD DWG EDCM603
9	END PIPE			250.820	525			252.591	1.771	CONNECT TO EXISTING ENDPipe
10	GRATED ENTRY PIT (HB2)	900	900	251.005	525	250.930	525	252.703	1.773	VPA GAA STD DWG EDCM603&607
11	GRATED ENTRY PIT (HB2)	900	900	251.135	525	251.060	525	252.832	1.772	VPA GAA STD DWG EDCM603&607
12	GRATED ENTRY PIT (HB2)	900	900	251.250	450	251.175	525	252.832	1.657	VPA GAA STD DWG EDCM603&607
				251.250	525					HAUNCHED PIT, COVER TO 900 x 600
13	GRATED ENTRY PIT (HB2)	900	600	251.495	375	251.420	450	252.989	1.569	VPA GAA STD DWG EDCM603
				251.570	300					
14	GRATED ENTRY PIT (HB2)	900	600	251.750	300	251.675	375	253.104	1.429	VPA GAA STD DWG EDCM603
				251.750	300					
15	JUNCTION PIT	900	600			252.210	300	253.413	1.203	VPA GAA STD DWG EDCM605
16	GRATED ENTRY PIT (HB2)	900	600			251.660	300	252.990	1.330	VPA GAA STD DWG EDCM603
17	GRATED ENTRY PIT (HB2)	900	600			251.840	300	253.107	1.267	VPA GAA STD DWG EDCM603
18	GRATED ENTRY PIT (HB2)	900	900	251.350	450	251.275	525	252.828	1.553	VPA GAA STD DWG EDCM603&607
				251.410	300					HAUNCHED PIT, COVER TO 900 x 600
19	JUNCTION PIT	900	600	251.505	450	251.430	450	252.954	1.524	VPA GAA STD DWG EDCM605
20	JUNCTION PIT	900	600	251.615	450	251.540	450	253.141	1.601	VPA GAA STD DWG EDCM605
21	JUNCTION PIT	900	600	251.705	375	251.630	450	253.161	1.531	VPA GAA STD DWG EDCM605
22	GRATED ENTRY PIT (HB2)	900	600	252.185	375	252.110	375	253.407	1.297	VPA GAA STD DWG EDCM603
23	JUNCTION PIT	900	600	252.440	300	252.365	375	253.668	1.303	VPA GAA STD DWG EDCM605
24	JUNCTION PIT	900	600	252.900	225	252.825	300	253.929	1.104	VPA GAA STD DWG EDCM605
				252.900	225					
25	EASEMENT PIT	900	600			253.010	225	253.992	0.982	GAA STD DWG EDCM605
26	GRATED ENTRY PIT (HB2)	900	600			251.500	300	252.827	1.327	VPA GAA STD DWG EDCM603
27	EASEMENT PIT	900	600			253.100	225	253.802	0.702	GAA STD DWG EDCM605
28	END PIPE			251.570	375			253.091	1.521	
29	GRATED ENTRY PIT (HB2)	900	600	252.250	225	252.100	375	253.512	1.412	VPA GAA STD DWG EDCM603
				252.175	300					
30	JUNCTION PIT	900	600	252.655	225	252.580	225	253.711	1.131	VPA GAA STD DWG EDCM605
31	EASEMENT PIT	900	600			253.190	225	253.998	0.808	VPA GAA STD DWG EDCM605
32	GRATED ENTRY PIT (HB2)	900	600			252.260	300	253.489	1.229	VPA GAA STD DWG EDCM603

INDICATES CRUSHED ROCK BACKFILL

INDICATES 5YR HGL

NOTE:
ALL DRAINS LAID UNDER BACK OF KERB AND FOOTPATH TO
TO BE CLASS 3 AND UNDER ROAD PAVEMENT TO BE MINIMUM
CLASS 2 F.C.R.



DRAINAGE LONGITUDINAL SECTIONS
SCALE HORIZONTAL 1:500
VERTICAL 1:50

AMENDMENTS

VER	DATE	REMARKS
A	22/11/17	CONSTRUCTION ISSUE

breesepitt dixon pty. ltd.
land surveyors

MELWAY REF. 366-E-6

SURVEY BPD

DESIGN SBS

DRAWN TVT

WARATAH ESTATE
STAGE 9

1/19 calo street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MUNICIPALITY
HUME

REFERENCE
8711 E/9

SCALE AS SHOWN

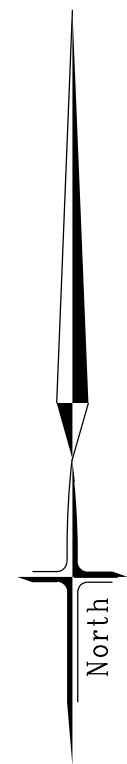
DATUM AHD

DATE AUG' 17

SHEET 11 OF 12

A

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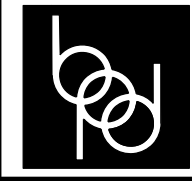
PARKING AND SIGNAGE & LINEMARKING PLAN

SCALE 1:500

SIGN SCHEDULE

- (A) "STREET NAME" SIGN
- (B)  R1-2
- (C) "NO ROAD" SIGN (HCC SD407)

NOTE:
• STREET NAME SIGN TO MOUNT ON LIGHTING POLE WHERE POSSIBLE
• STREET SIGNS TO HAVE MINIMUM 2 WEDGES IN THE POLE SLEEVES

AMENDMENTS					breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
				MELWAY REF.	366-E-6	WARATAH ESTATE STAGE 9		MUNICIPALITY
				SURVEY	BPD			HUME
				DESIGN	SBS			REFERENCE
				DRAWN	TVT			8711 E/9
A	22/11/17	CONSTRUCTION ISSUE						
VER	DATE	REMARKS	CHECKED	SCALE	AS SHOWN	DATUM	AHD	DATE
								AUG' 17
								SHEET 12 OF 12
								A