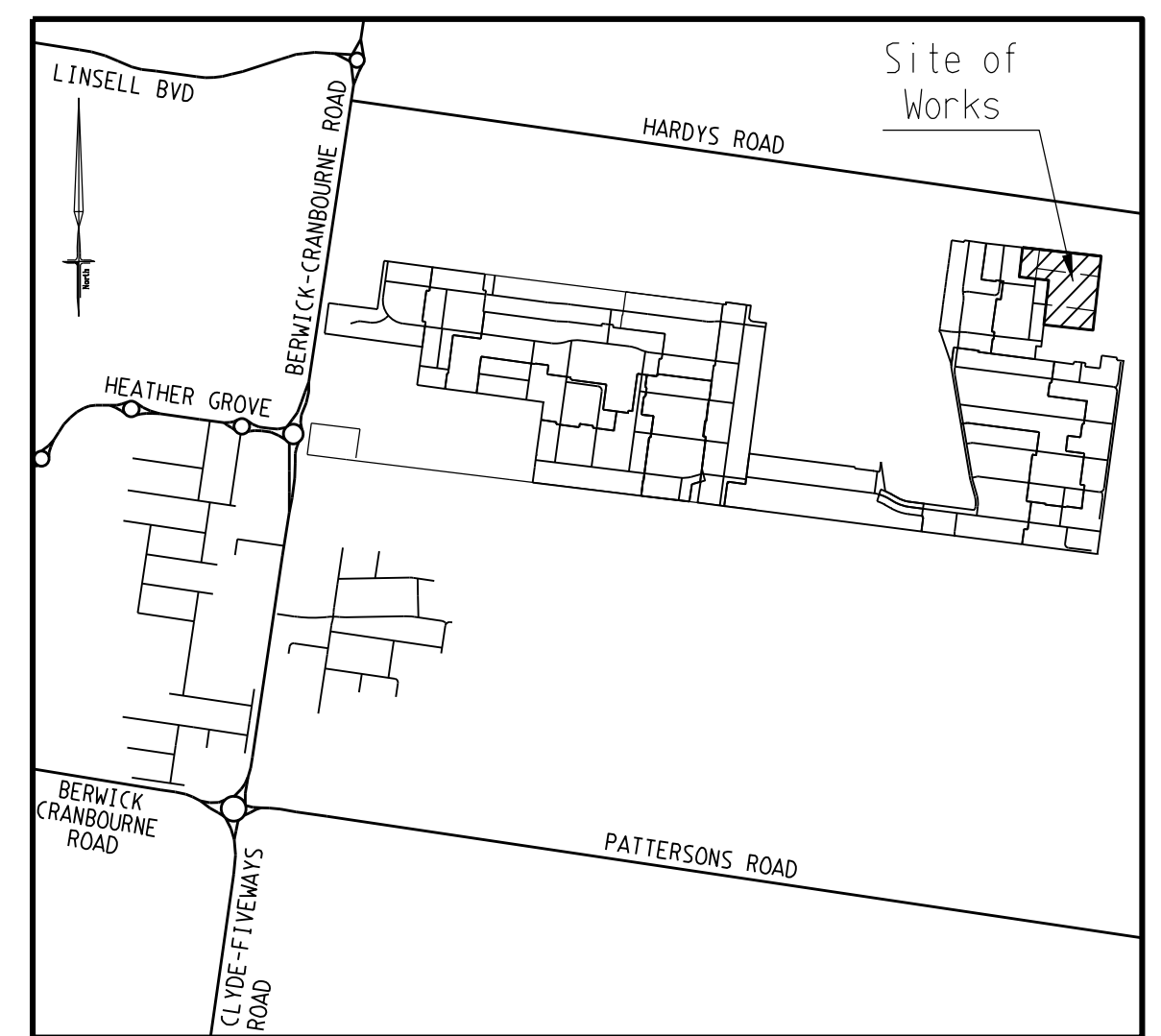




LOCALITY PLAN
NTS
MELWAYS: 135 C5

SHEET INDEX

SHT No.	VER	DESCRIPTION
1	D	DETAIL PLAN, SERVICES SCHEDULE & SHEET INDEX
2	A	NOTES, PAVEMENT DETAILS, TYPICAL SECTIONS
3	A	INTERSECTION DETAILS - SHEET 1
4	A	CLAMOROSO DRIVE - LONGITUDINAL & CROSS SECTIONS
5	A	VIELO STREET - LONGITUDINAL & CROSS SECTIONS - SHEET 1
6	A	VIELO STREET - LONGITUDINAL & CROSS SECTIONS - SHEET 2
7	A	DRAINAGE LONGITUDINAL SECTIONS
8	A	DRAINAGE LONGITUDINAL SECTIONS, PIT SCHEDULE & PIT DETAILS
9	B	SIGNAGE & LINEMARKING PLAN

SERVICES OFFSETS AND LOCATIONS

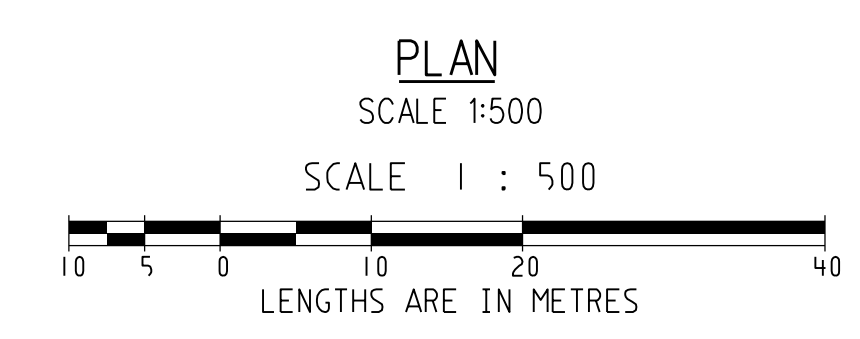
STREET NAME	Rd RESERVE	WATER		GAS	ELECTRICITY		FIBRE TO THE HOME		Bk. of KERB	JOINT TRENCHING	VICCODE STREET CLASSIFICATION
		DW	NDW		CABLES	POLES	FTTH CABLES	FTTH PITS			
CLAMOROSO DRIVE	16-00	2-85 E	2-35 E	1-90 E	2-50 W	1-00 BOX	1-85 W	1-20 E #	4-35 E 4-05 W	G & W, FTTH & E	STREET - LEVEL 1
VIELO CIRCUIT (NORTH)	16-00	3-20 S	2-70 S	2-25 S	2-35 N	1-00 BOX	1-85 N	1-78 S	4-05 N 4-35 S	G & W, FTTH & E	STREET - LEVEL 1
VIELO CIRCUIT (SOUTH)	16-00	3-20 N	2-70 N	2-25 N	2-45 S	1-00 BOX	1-85 S	1-78 N	4-35 N 4-05 S	G & W, FTTH & E	STREET - LEVEL 1

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.
- Contractor to ensure that the site is pegged and/or set out checked by the licenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
- Where concrete works about a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.



SYMBOL LEGEND	
Drains	Prop
Sewer <300	Exist
Sewer >300	
Water	
House Drain	
Property Inlet	
Street Sign	
PSM	
Retaining Wall	
Conduits 50mm	
Conduits 100mm	
Ex Gas/Elect/Tel	
Ex/Natural/FS Level	
FS @ Building Line	
Top/Toe of Batter	
Top Ret. Wall Level	
100yr Flood Level	
Fill Prop/Ex	
Cut Prop/Ex	

AMENDMENTS		MELWAY REF.	SURVEY	DESIGN	DRAWN	CHECKED	SCALE	DATUM	AHD	DATE	SHEET	OF	MUNICIPALITY	REFERENCE
VER	DATE													
D	28/08/20	SPEED HUMPS ADDED VIELO CIRCUIT NTH & STH SHEET 10 UPDATED	135-D-4	BPD	GL					JAN'20	1	OF 9	CASEY	8974 E/18
C	23/04/20	SEWER LINE LOT 1820 TO FUT 7 AMENDED												
B	08/04/20	SEWER LINE EXTENDED LOT FUT 7 & LOT 1911												
A	07/04/20	ISSUED FOR CONSTRUCTION												



breese pitt dixon pty. ltd.
land surveyors
civil engineers
1/19 coto street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

DELARAY ESTATE
STAGE 18

MUNICIPALITY
CASEY
REFERENCE
8974 E/18

NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT AND THE CITY OF CASEY CURRENT SPECIFICATION AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE CITY OF CASEY WORKS SUPERVISOR.
2. COUNCIL TO BE NOTIFIED TWO (2) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
3. DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES.
4. ALL 150mm DIA. PIPES TO BE P.V.C., 225mm DIA. TO BE P.V.C. OR R.C.(RRJ), 300mm TO 750mm DIA. TO BE R.C.(RRJ) AND 825mm DIA. AND GREATER TO BE R.C.(IJ). PIPES LAYED ON A CURVE TO BE RRJ.
5. R.C. PIPES TO BE CLASS 2 & P.V.C PIPES TO BE CLASS SH UNLESS OTHERWISE SPECIFIED.
6. WHERE DRAINAGE PIPES ARE LOCATED WITHIN NATURE STRIPS, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED CLASS 3 F.C.R. UP TO A LEVEL WHERE THE 45deg. INFLUENCE LINE FROM THE B.O.K. INTERSECTS WITH THE NEAREST TRENCH SIDE. PROVIDE CRUSHED ROCK BACKFILL WHERE DRAINAGE CROSSES BELOW FOOTPATHS.
7. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO A RELATIVE COMPACTION OF 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING :
i) BENEATH THE ROAD OR DRIVEWAY PAVEMENT TO THE UNDERSIDE OF THE PAVEMENT.
ii) ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE.
(TRENCHES TO BE BACKFILLED IN LAYERS NOT EXCEEDING 200mm LOOSE.)
8. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
9. PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. MINIMUM COVER TO BE 500mm. REFER GAA STD DWGS EDM703, EDM702, EDM703 & EDM704.
10. LOTS DENOTED THUS 25H ARE TO BE PROVIDED WITH A 100mm DIA. HOUSE DRAIN PLACED 5.5m FROM LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. REFER GAA STD DWGS EDM701 & EDM703.
11. AGRICULTURAL PIPE DRAINS, AS PER GAA STD DWG EDM202, TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER.
12. ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
13. LOTS TO BE GRADED (1 in 150 MIN SLOPE) & LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER. FINISHED LEVELS TO BE COMPATIBLE WITH LOTS ADJOINING THIS STAGE.
14. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM SITE. NO SURPLUS TREES, VEGETATION OR OTHER MATERIAL IS TO BE BURNT ON SITE.
15. RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE CITY ENGINEER.
16. FILL AREAS IN ALL PROPERTIES AND ROAD RESERVES TO BE STRIPPED OF TOPSOIL & VEGETABLE MATTER, FILLED USING APPROVED CLAY FILL, AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS3798-2007, SECTION 8.2, LEVEL 1 (*GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS*). ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT, FROM A NATA REGISTERED SOIL TESTING LABORATORY, NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
17. 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 PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
18. BATTERS TO BE 1 IN 6 FOR FILL AND 1 IN 6 FOR CUT UNLESS NOTED OTHERWISE.
19. CUT BATTERS ARE TO BE GRASSSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, STRAW AND BITUMEN EMULSION.
20. WHERE CUT BATTERS EXCEED 700mm AN ADDITIONAL 300mm BERM SHALL BE FORMED BEHIND FOOTPATH.
21. ACCESS RAMPS ARE TO BE CONSTRUCTED WHERE CUT BATTERS EXCEED 1.0m. THEY ARE TO BE GRADED 1 IN 10 FOR THE FIRST 2.5m FROM THE BACK OF PATH AND THEN AT A MAXIMUM OF 1 IN 4 TO NATURAL SURFACE.
22. ALL RESIDENTIAL FOOTPATHS SHALL BE 1.5m WIDE (MIN.) AND SHARED PEDESTRIAN/ CYCLE PATHS SHALL BE 3.0m (MIN.). CONCRETE PATHS ARE TO BE 125mm THICK REINFORCED WITH SL72 PLACED CENTRALLY AND UNDERLAIN BY 50mm OF CLASS 3 CR. REFER GAA STD DWG EDM401.
23. PRAM CROSSINGS ARE TO BE CONSTRUCTED WHERE FOOTPATHS CONNECT TO THE BACK OF KERB & CHANNEL. REFER GAA STD DWG EDM403.
24. ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER. A TOWN PLANNING PERMIT IS REQUIRED FOR THE REMOVAL OF NATIVE TREES AND OR VEGETATION. THE REMOVAL OR RETENTION OF ANY EXISTING TREES MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN, OR ELSE APPROVAL WILL BE REQUIRED FROM THE CASEY LANDSCAPE APPROVALS OFFICER.
25. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO THE COMMENCEMENT OF WORKS.
26. 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.
27. TELSTRA/BNB Co TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
28. ELECTRICAL DISTRIBUTION PITS WITHIN FOOTPATHS ARE TO BE A MINIMUM OF 300mm WITHIN THE EDGE OF THE PATH. CONCRETE IS TO BE PLACED AROUND DISTRIBUTION PITS TO A MINIMUM DEPTH OF 200mm.
29. ALL STREET SIGNS TO BE CONSTRUCTED AND ERECTED TO CURRENT CITY OF CASEY STANDARDS INCLUDING LOGO. COURT STREET NAMES ARE TO SHOW COURT NAME ONLY.
30. TRAFFIC CONTROL SIGNS, MARKINGS & DELINEATORS TO BE INSTALLED IN ACCORDANCE WITH AS1742.2. ALL LINE MARKING IS TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC & TRANSVERSE MARKINGS IN COLD APPLIED.

31. ALL DRIVEWAYS ARE TO BE OFFSET 0.75m FROM SIDE BOUNDARYS AND EASEMENTS UNLESS OTHERWISE SHOWN, AND CONSTRUCTED AS PER GAA STD DWGS FIG010 & FIG011.
32. ALL ROADS TO BE CONSTRUCTED WITH KERB & CHANNEL AS SHOWN. REFER GAA STD DWGS EDM301 & EDM302 AND CASEY COUNCIL STD DWGS.
33. KERB TRANSITION TO TAKE PLACE IN THE MINOR STREET OVER A 2.0m LENGTH FROM EITHER THE TANGENT POINT OR TP PIT.
34. EXISTING ROAD WORKS TO BE RECONSTRUCTED AS REQUIRED TO PROVIDE, WITHOUT DISCONTINUITY, A CONNECTION IN ACCORDANCE WITH DESIGN LEVELS AND GRADES.
35. PAVEMENT MAKEUP FOR: VIELLO STREET & CLAMOROSO DRIVE
TO CONSIST OF:
a) 30mm COMPACTED DEPTH OF 10mm TYPE N ASPHALT WITH C170 BINDER
b) 35mm COMPACTED DEPTH OF 14mm TYPE N ASPHALT WITH C170 BINDER
c) PRIME & SEAL (SIZE 7)
d) 125mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 2 FCR
e) 100mm COMPACTED DEPTH OF 40mm NOMINAL SIZE CLASS 3 FCR
f) 200mm INSITU STABILISATION WITH MINIMUM SOAKED CBR OF 10%
TOTAL PAVEMENT DEPTH: 490mm

PAVEMENT NOT TO BE FOUNDED ON CLAYEY SILT OR UNCONTROLLED FILL MATERIAL SUBGRADE. PAVEMENT TO BE AS PER SPECIFICATIONS OF CARDNO LANEPAPER GEOTECHNICAL INVESTIGATION, DOC214996, FEB 2016

EARTHWORKS MATERIALS TO BE USED AS 'INSITU STABILISATION' MUST HAVE A SOAKED CBR OF MORE THAN 10% WITH A SWELL OF LESS THAN 1.5%, A LIQUID LIMIT OF LESS THAN 50%, A PLASTICITY INDEX (PI) OF LESS THAN 25% AND A PI x % LESS THAN 0.425mm OF LESS THAN 1200. THIS MATERIAL SHOULD ALSO HAVE A HYDRAULIC CONDUCTIVITY OF LESS THAN 1×10^{-9} m/s MEASURED AT OMC PLUS OR MINUS 5% AND COMPACTED TO A STANDARD DRY DENSITY RATIO OF 98% PLUS OR MINUS 1%. THIS LAYER SHOULD INCORPORATE A PERCENTAGE OF HYDRATED LIME AND CEMENT BY MASS SPECIFIED BY THE STABILISATION WORKS SUB CONTRACTOR TO MEET THE REQUIREMENTS OF BOTH THE SUPERINTENDANT AND THE RELEVANT COUNCIL.

'IN SITU STABILISATION MATERIAL' IS TO EXTEND TO A DISTANCE OF AT LEAST 1.0m BEHIND THE BACK OF KERB.

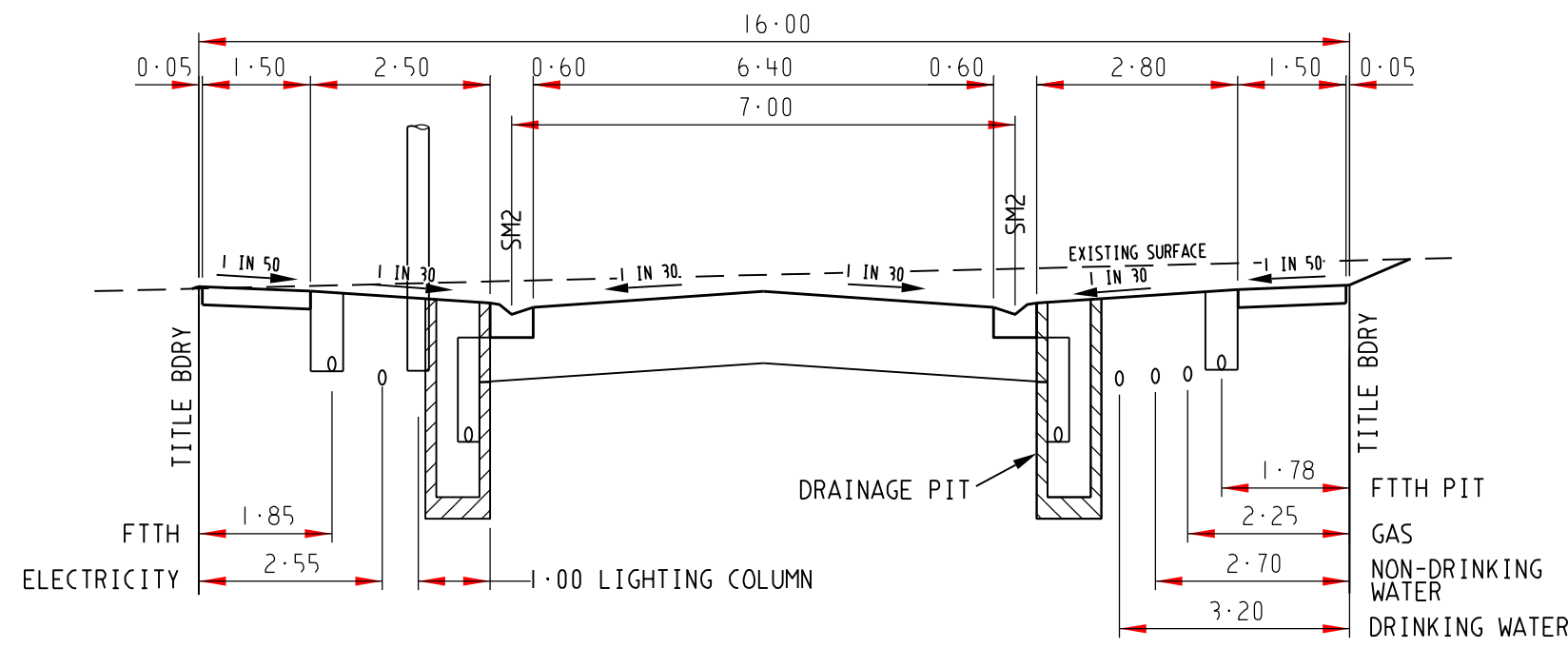
IF POOR SUBGRADE IS NOT ENCOUNTERED AND STABILIZATION NOT REQUIRED, 'SELECT GRANULAR MATERIAL' MAY BE USED AT A DEPTH OF THE SPECIFIED INSITU STABILIASATION MATERIAL MINUS 50mm SUBJECT TO APPROVAL BY THE SUPERVISING ENGINEER

EARTHWORKS MATERIALS TO BE USED AS 'SELECT GRANULAR MATERIAL' MUST HAVE A SOAKED CBR OF MORE THAN 10% WITH A SWELL OF LESS THAN 1.5%, A LIQUID LIMIT OF LESS THAN 50%, A PLASTICITY INDEX (PI) OF LESS THAN 25% AND A PI x % LESS THAN 0.425mm OF LESS THAN 1200. THIS MATERIAL SHOULD ALSO HAVE A HYDRAULIC CONDUCTIVITY OF LESS THAN 1×10^{-9} m/s MEASURED AT OMC PLUS OR MINUS 5% AND COMPACTED TO A STANDARD DRY DENSITY RATIO OF 98% PLUS OR MINUS 1%. THIS LAYER SHOULD BE A MINIMUM OF 150mm THICK OR AT LEAST 2.5 TIMES THE MAXIMUM PARTICLE SIZE IN THE LAYER. THE MATERIAL USED MUST MEET THE REQUIREMENTS OF BOTH THE SUPERINTENDANT AND THE RELEVANT COUNCIL.

'SELECT GRANULAR MATERIAL' IS TO EXTEND TO A DISTANCE OF AT LEAST 1.0m BEHIND THE BACK OF KERB.

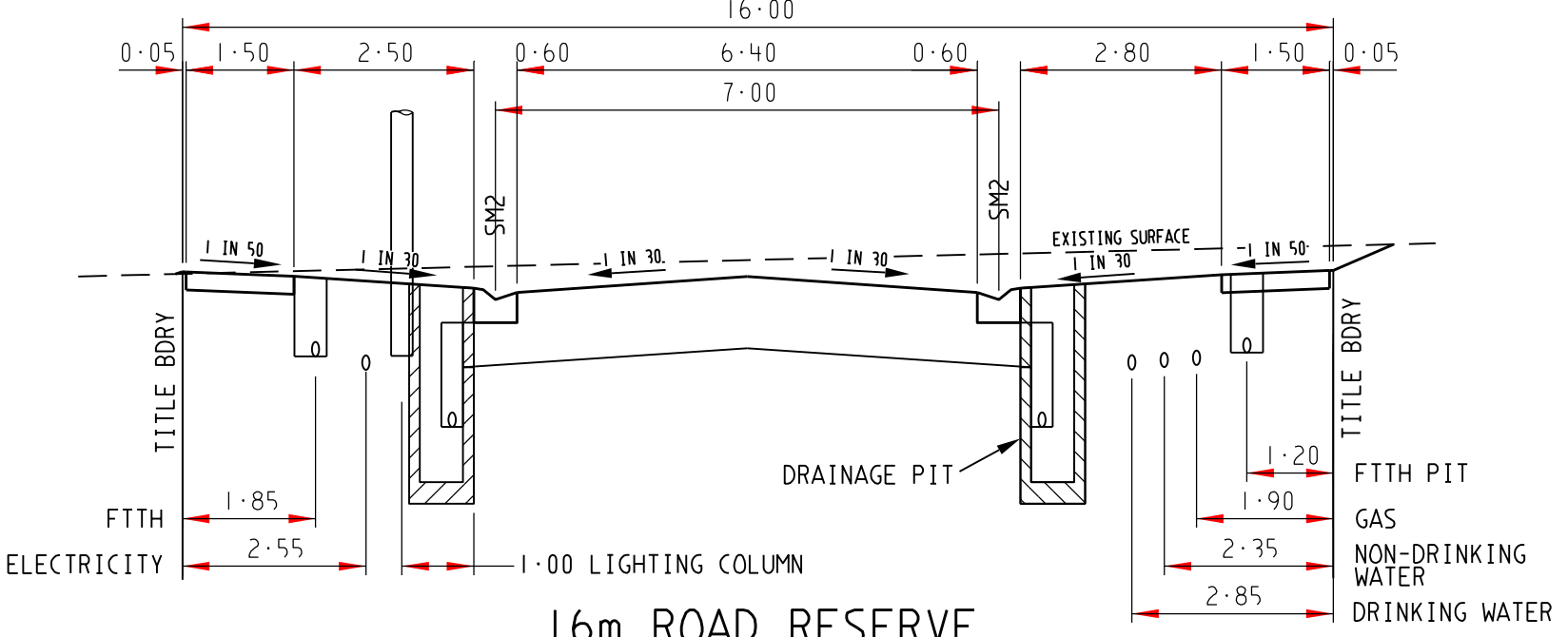
SOFT ROCK SOURCED FROM LOT SRF-2001-331 AT AIDAN GRAHAM QUARRY HAS BEEN DEEMED AS AN APPROPRIATE MATERIAL FOR THE 'SELECT GRANULAR MATERIAL' LAYER

36. MODIFICATION OF THE PAVEMENT REQUIRES APPROVAL BY THE CITY OF CASEY WORKS SUPERVISOR.
37. EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.
38. THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBM's AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.
39. 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 PMW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
40. PROVIDE PAINTED PALING FENCE ALONG ANY BOUNDARY COMMON TO LOTS & MUNICIPAL RESERVES AS PER CASEY COUNCIL STD DWG S-706. PALINGS TO BE ON THE RESERVE SIDE.
41. PROVIDE TEMPORARY SAFETY BARRIER FENCE (FARM FENCE AS PER PMW STD DWG 7251/4/203) ALONG EXTENT OF OUTFALL DRAIN WHERE THE DRAIN IS GREATER THAN 1.5m IN DEPTH AND SIDE SLOPES ARE STEEPER THAN 1 IN 3. SAFETY FENCE TO REMAIN UNTIL PERMANENT UNDERGROUND DRAINAGE IS INSTALLED.
42. A TEMPORARY FENCE SHALL BE ERECTED AND MAINTAINED AROUND EXISTING TREES. NOMINATED TO BE RETAINED, AT ALL TIMES DURING CONSTRUCTION. FOR FENCING DETAILS AND CONSTRUCTION WORKS WITHIN THE "TREE PROTECTION ZONE" REFER TO THE ARBORICULTURAL INSPECTION REPORT BY A & R TREE SURGEONS (18th MARCH 2003).
43. CONTRACTOR TO REMOVE EXISTING IRRIGATION AND DRAINAGE PIPES AND PITS ENCOUNTERED ON SITE. TRENCHES TO BE BACKFILLED IN ACCORDANCE WITH NOTES 16 & 17.
44. TACTILE GROUND SURFACE INDICATORS (TGSi) ARE TO BE INSTALLED AT ALL PRAM CROSSINGS AND PEDESTRIAN CROSS POINTS,REFER GAA STD DWG EDM403.



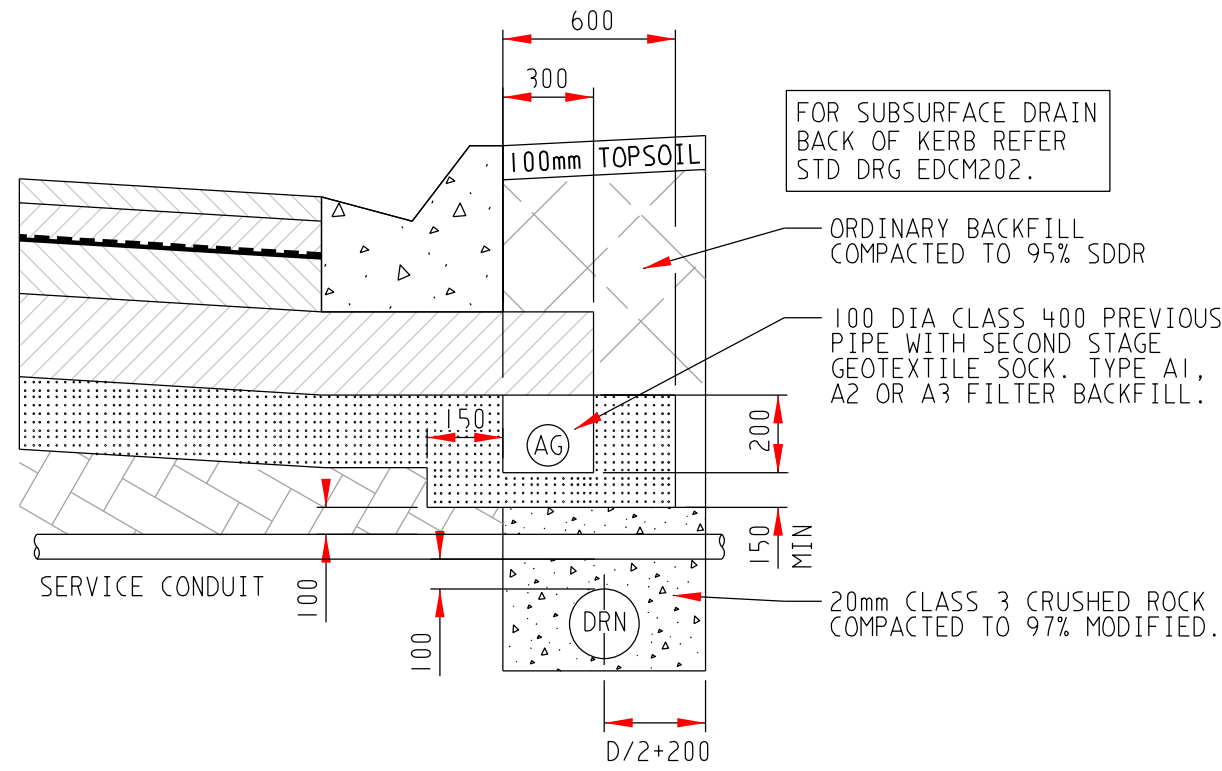
16m ROAD RESERVE
VIELO CIRCUIT

LOCAL ACCESS STREET - LEVEL 1



16m ROAD RESERVE
CLAMOROSO DRIVE

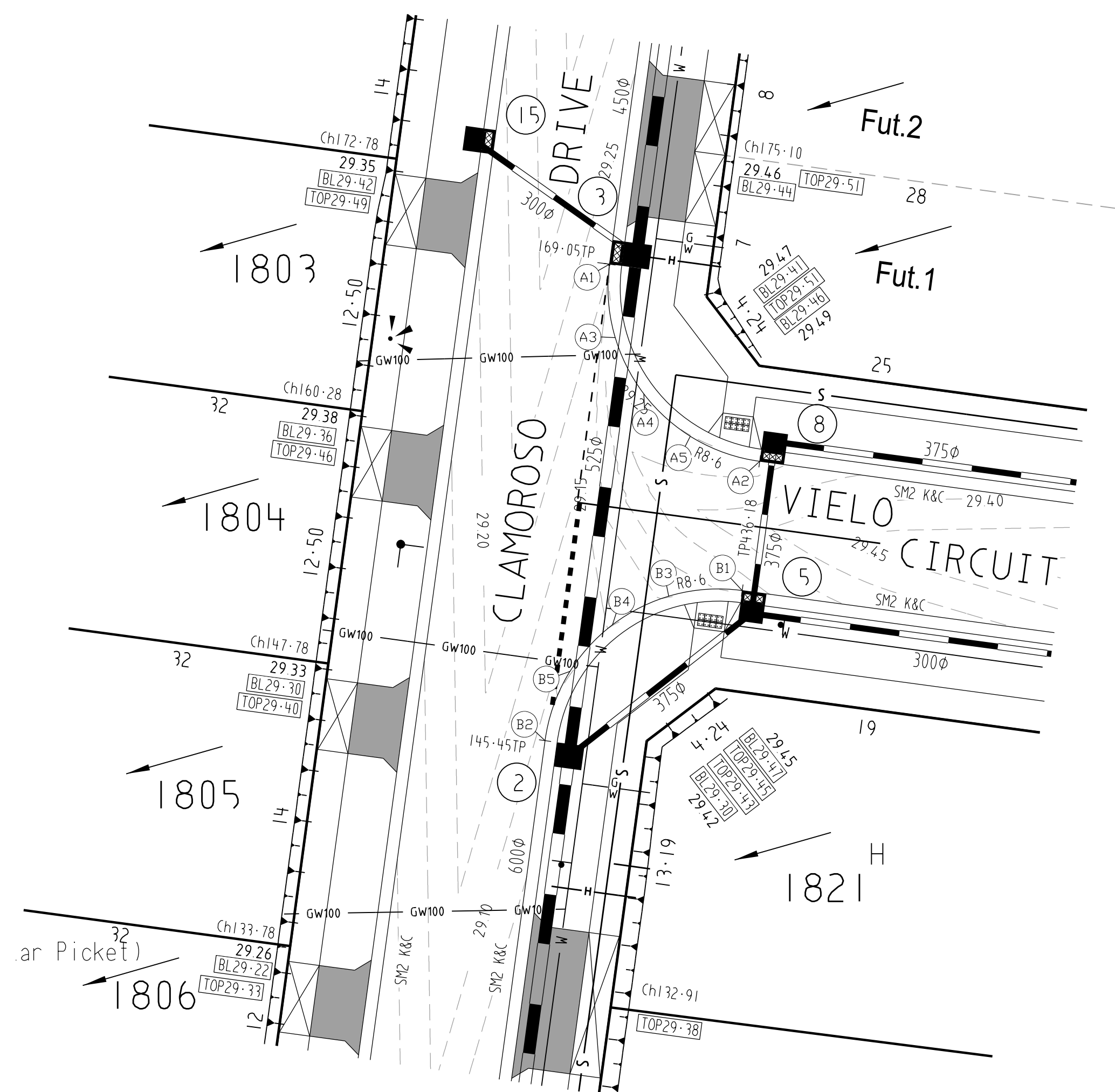
LOCAL ACCESS STREET - LEVEL 1



SUBSURFACE DRAIN

NTS

AMENDMENTS					breese pitt dixon pty. ltd. land surveyors civil engineers				1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310									
				MELWAY REF.	135-D-4		DELARAY ESTATE STAGE 18				MUNICIPALITY							
				SURVEY	BPD						CASEY							
				DESIGN	GL						REFERENCE							
				DRAWN	GL						8974 E/18							
A	07/04/20	ISSUED FOR CONSTRUCTION			DRAWN	GL						8974 E/18						
VER	DATE	REMARKS			CHECKED			SCALE	AS SHOWN	DATUM	AHD	DATE	JAN '20	SHEET	2	OF	9	A



LENGTHS ARE IN METRES

Diagram illustrating the Lip Line A profile, showing the relationship between stationing and elevation (Datum 28).

Stationing	Elevation (Datum 28)
-5.000	29.278
0.000	29.203
13.508	29.275

The profile is defined by the following segments and slopes:

- Segment 1: From station -5.000 to 0.000, slope is -0.50%.
- Segment 2: From station 0.000 to 13.508, slope is 0.50%.
- Segment 3: From station 13.508 to the end, slope is 1.50%.

DATUM 28

DESIGN LIP

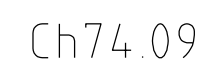
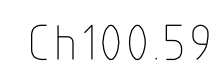
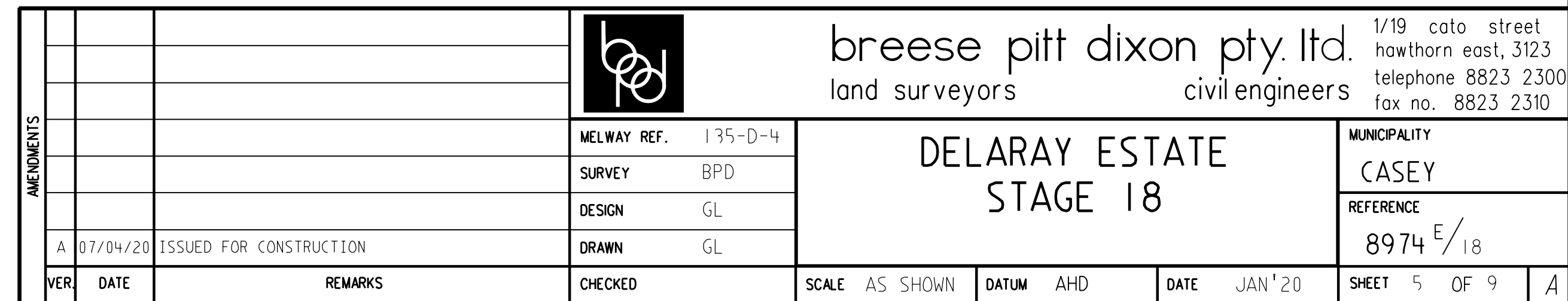
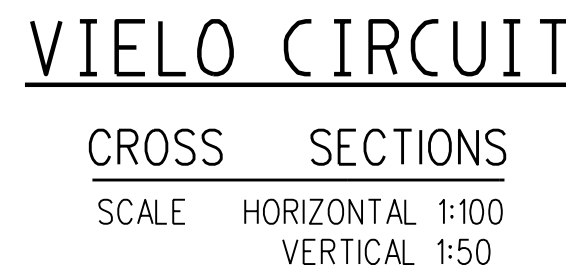
CHAINAGE

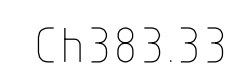
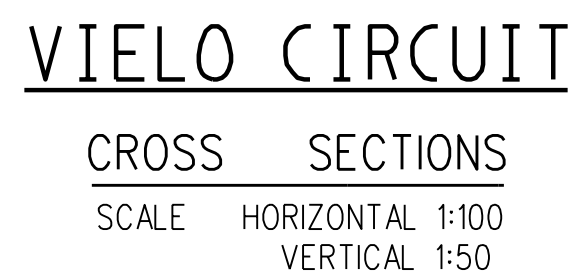
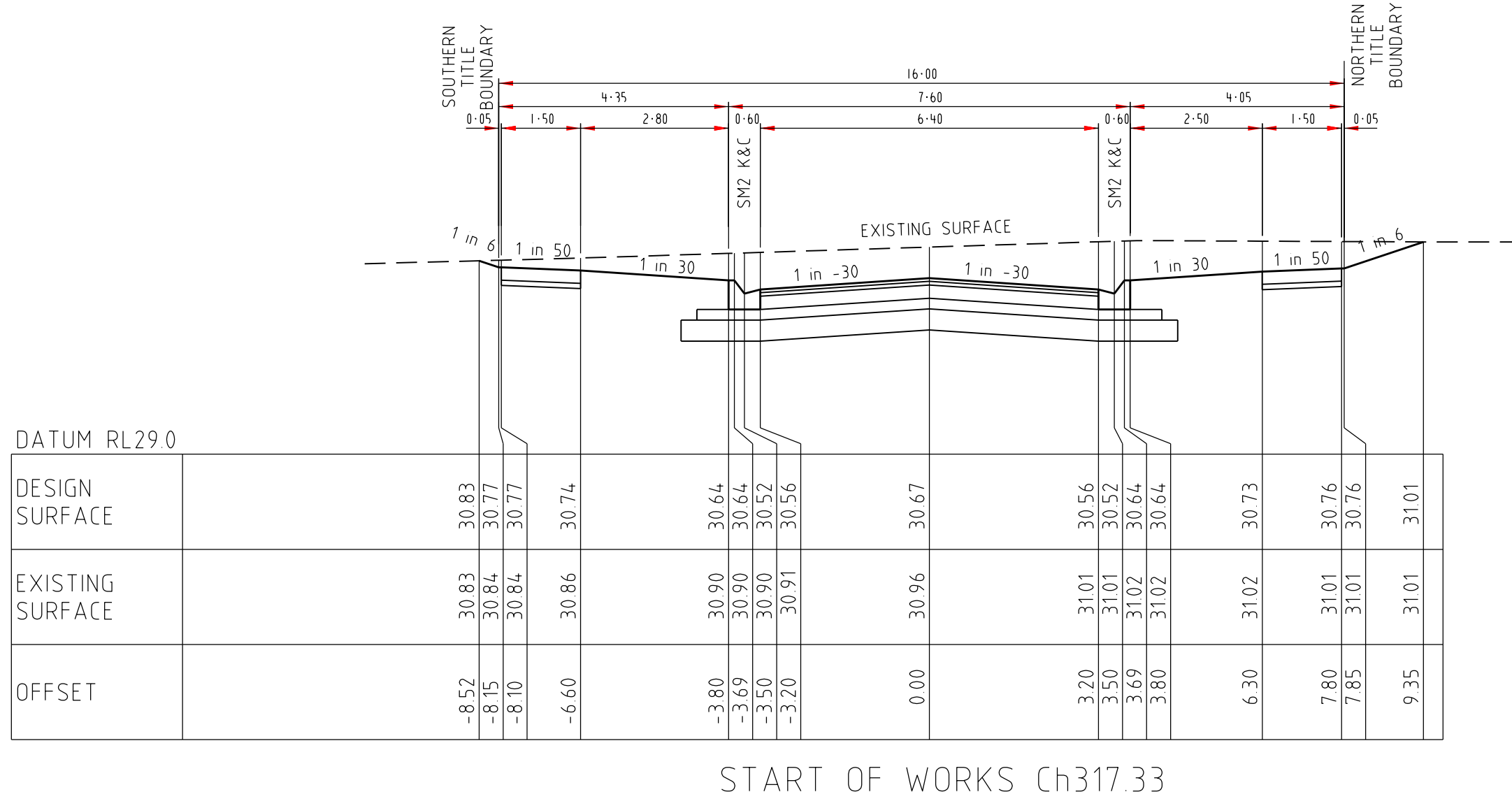
LIP LINE B

CHAINAGE	DESIGN LIP	CHAINAGE	DESIGN LIP
5 000	29 374	11 508	29 084
0 000	29 275	10 132	29 110
3 377	29 212	6 755	29 155
		29 155	29 155
		29 212	29 212
		29 275	29 275
		29 374	29 374

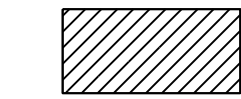
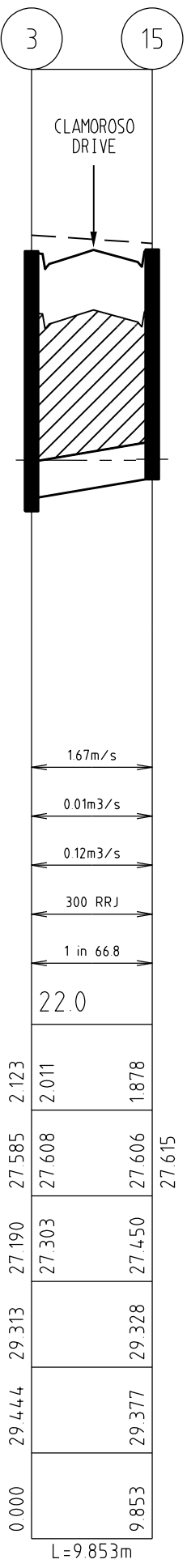
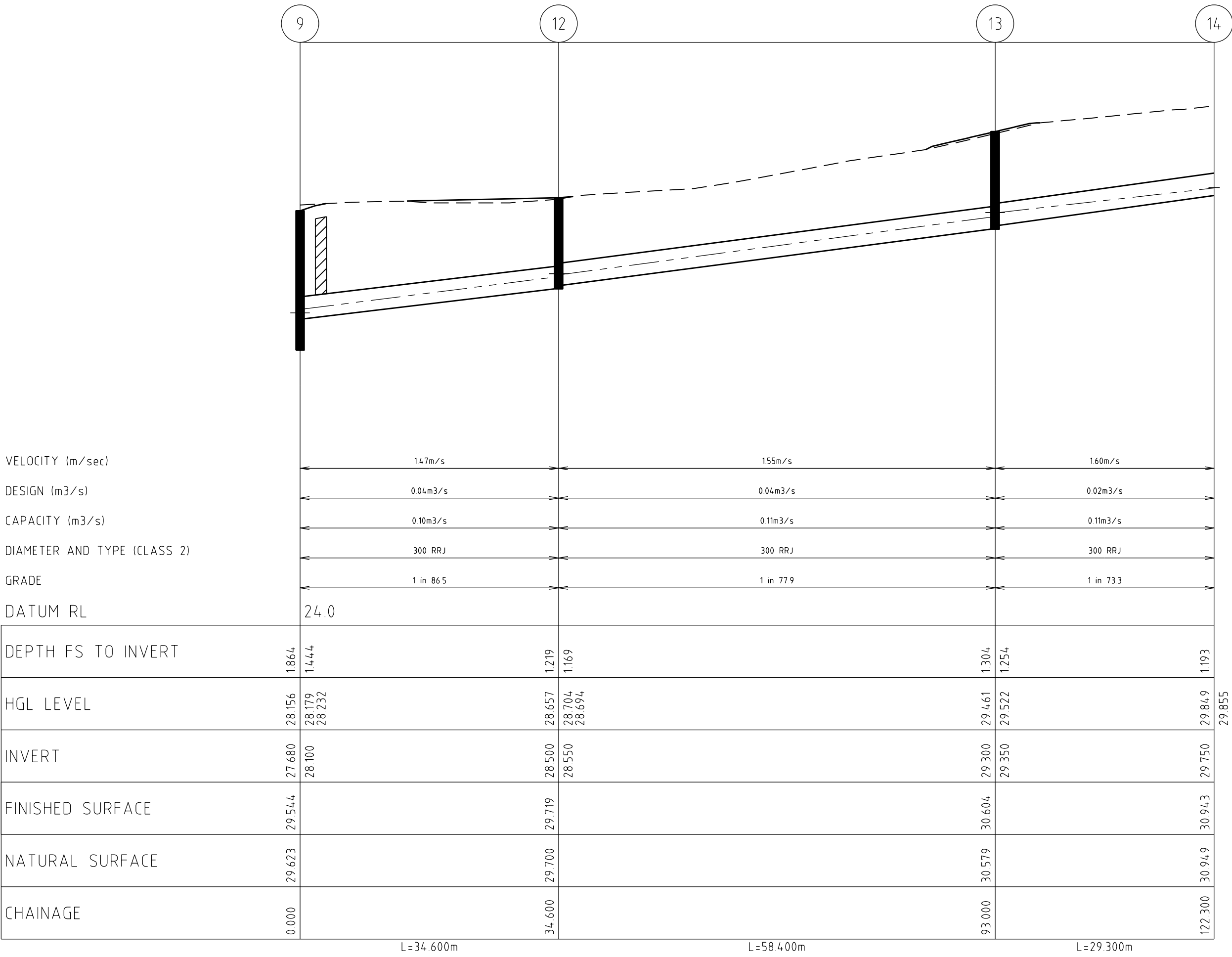
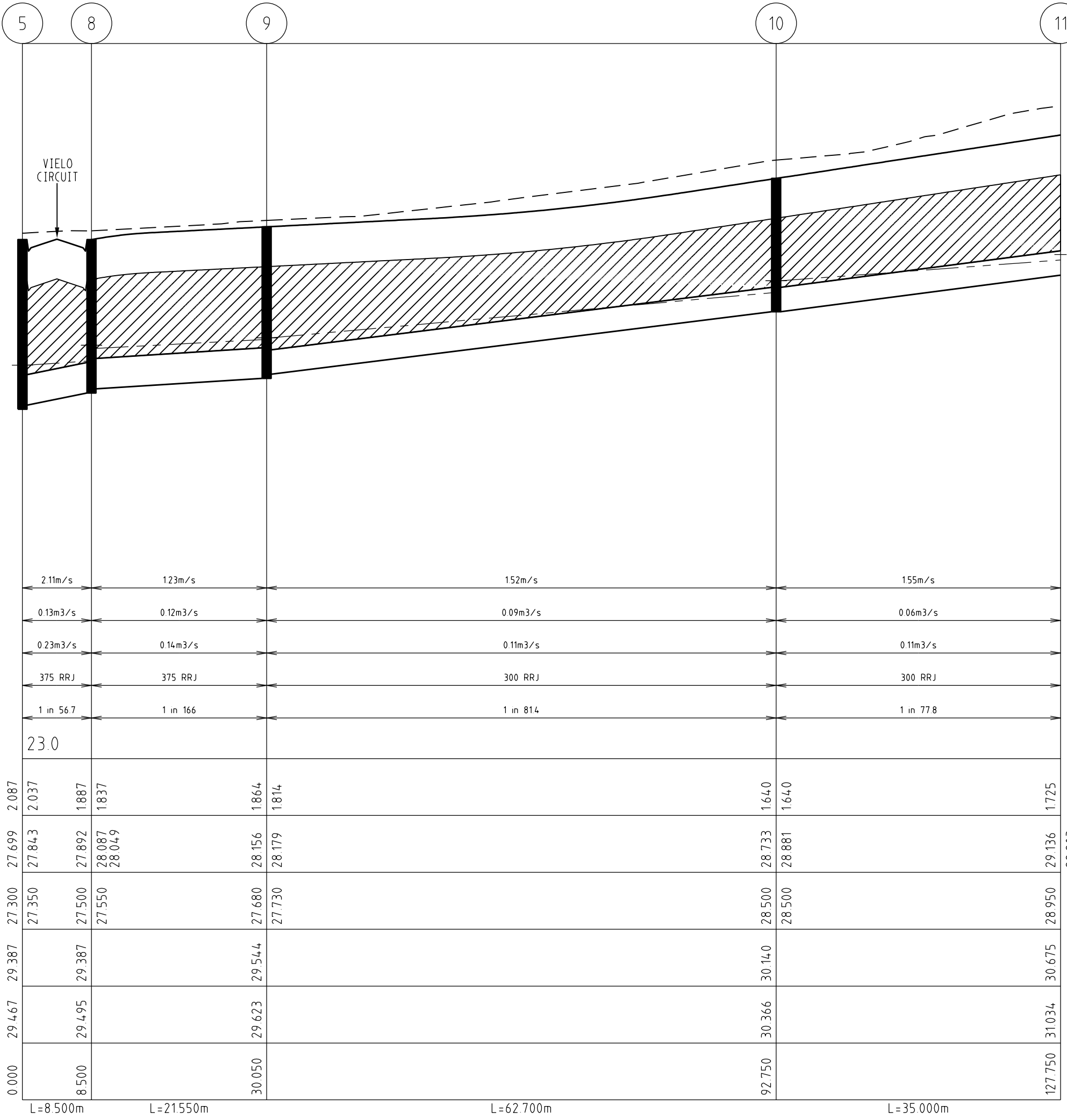
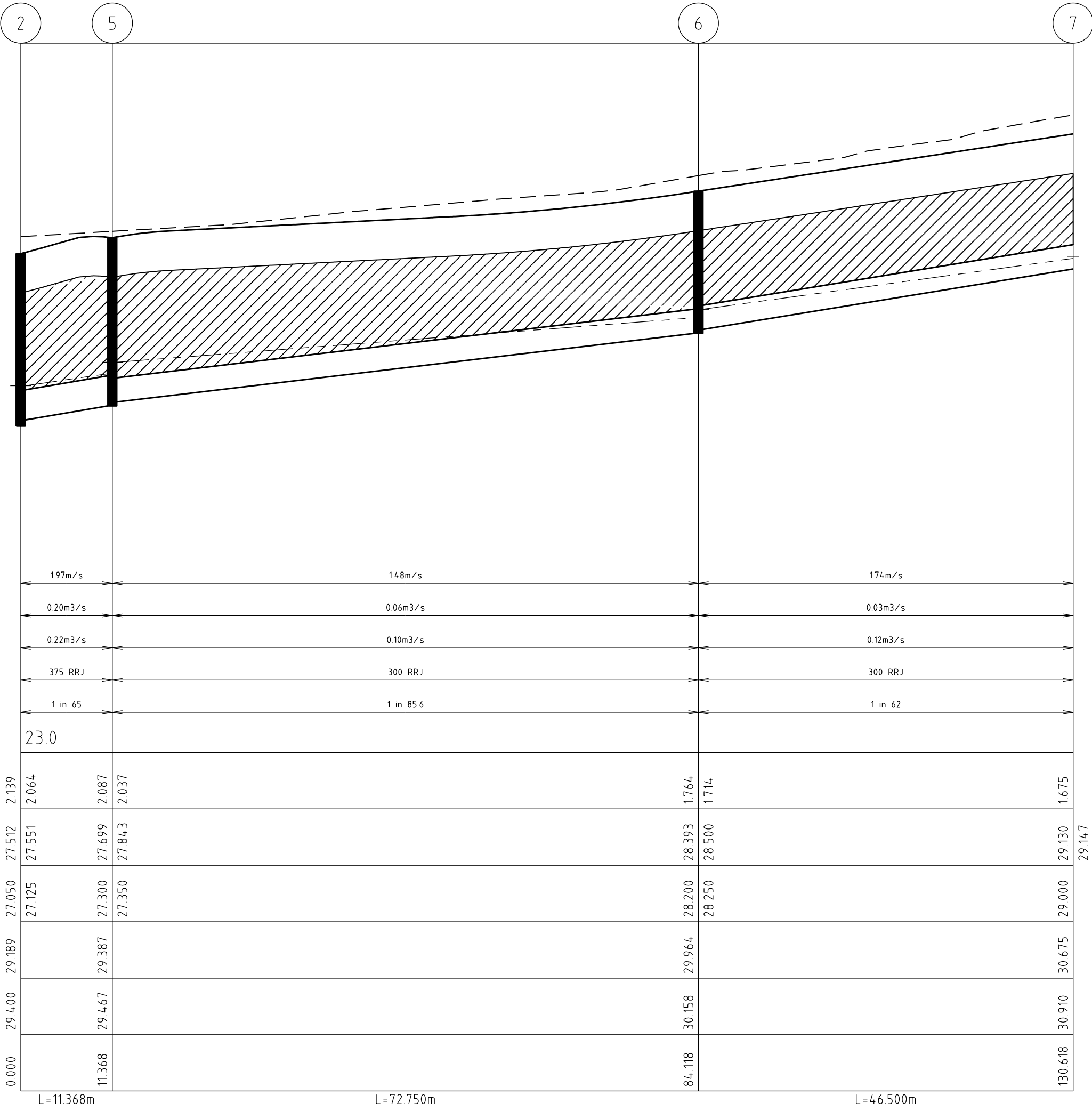
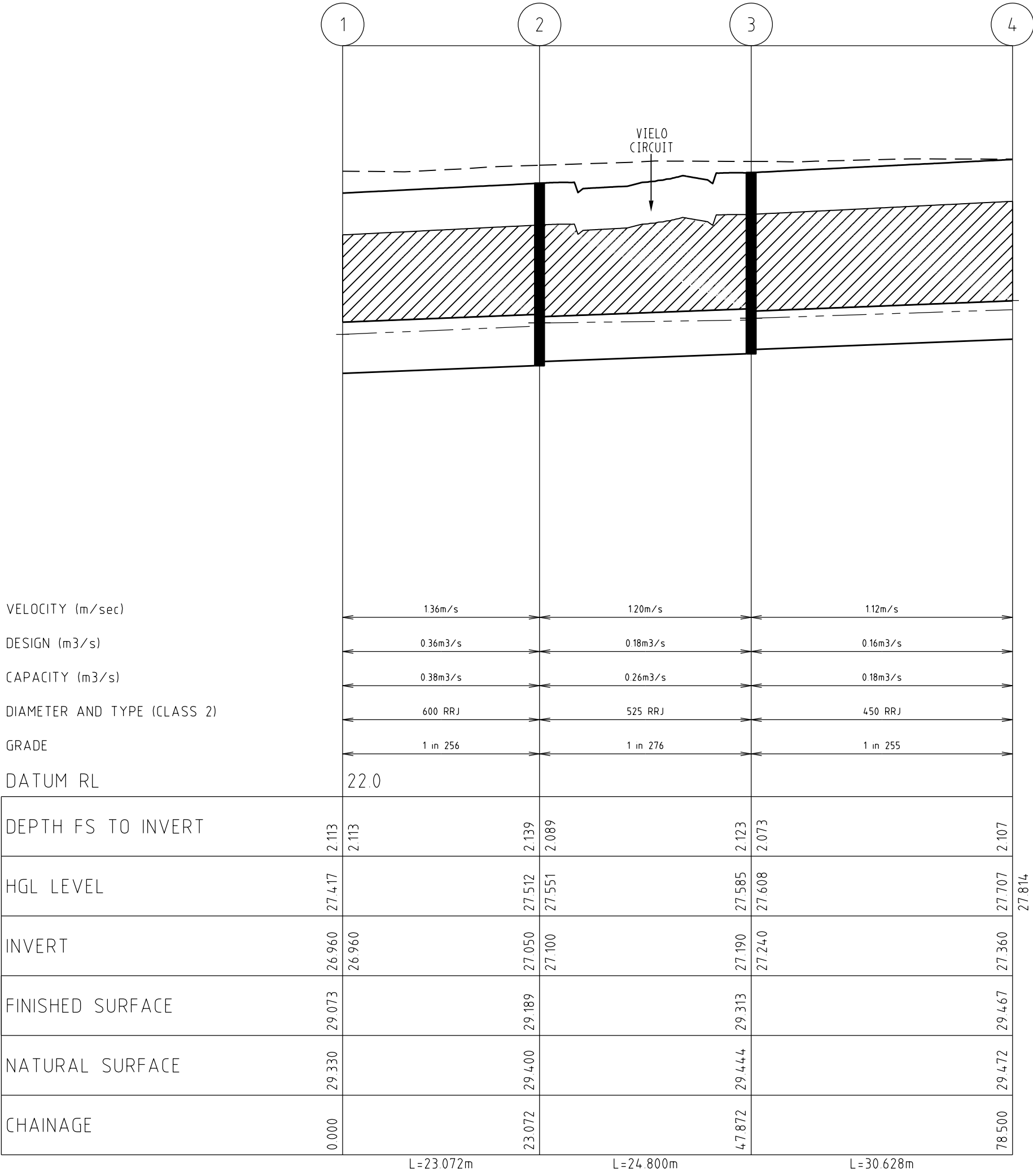
The diagram illustrates a circular segment. A central angle is labeled 'Angle'. The two radii forming this angle are labeled 'Radius'. The straight line connecting the two radii is labeled 'Chord'. The arc of the circle subtended by the angle is labeled 'Arc'. The area of the segment is divided into three regions: a central triangle with side 'a', and two smaller triangles on either side with sides 'b' and 'c'.

4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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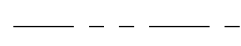




AMENDMENTS					breese pitt dixon pty. ltd. land surveyors				civil engineers				1/19 cato street howthorn east, 3123 telephone 8823 2300 fax no. 8823 2310						
				MELWAY REF.	135-D-4		DELARAY ESTATE STAGE 18						MUNICIPALITY						
			SURVEY	BPD		CASEY													
			DESIGN	GL		REFERENCE													



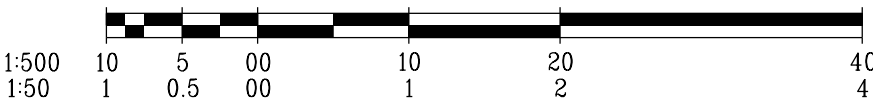
INDICATES CRUSHED ROCK BACKFILL



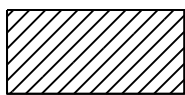
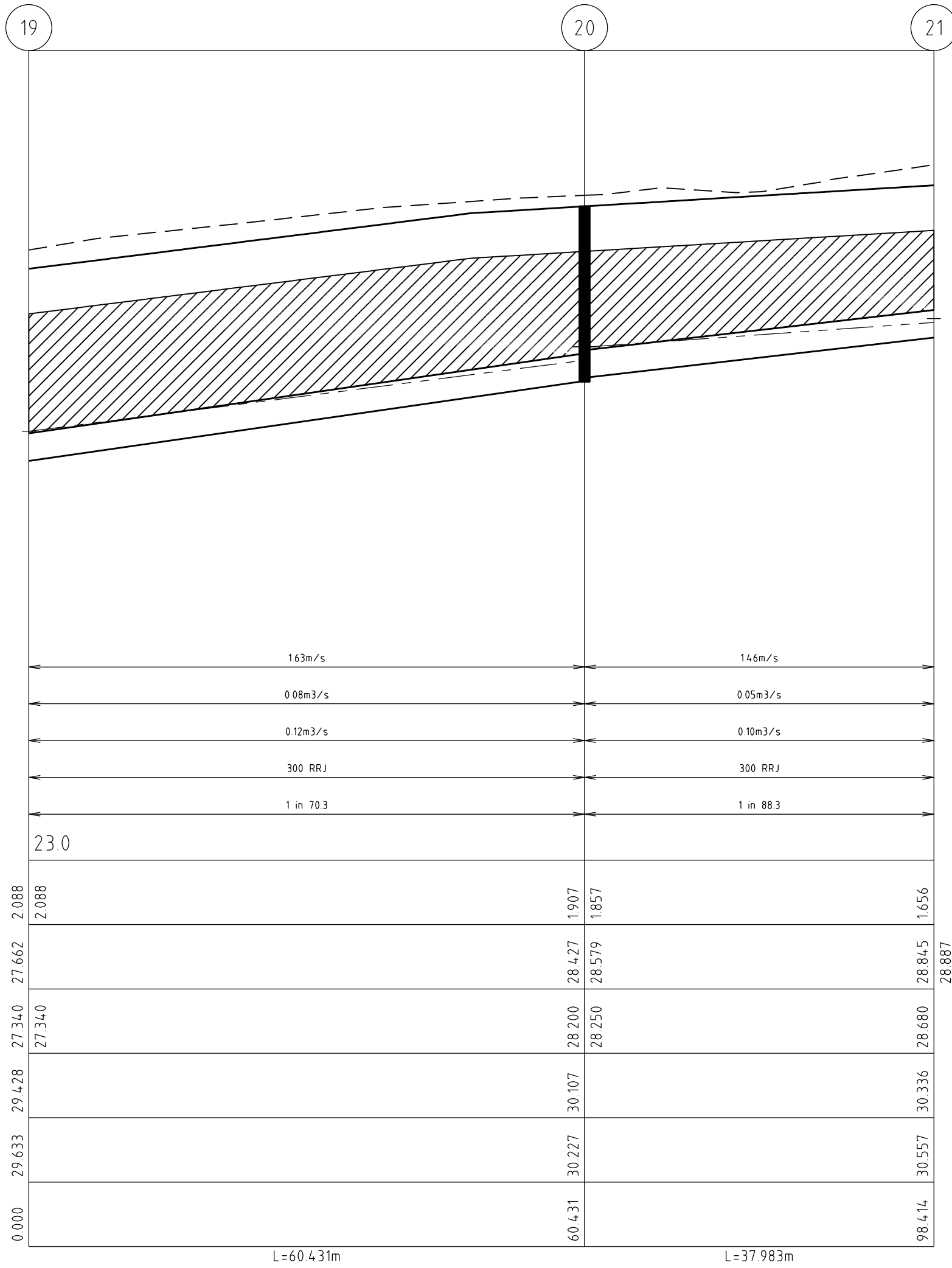
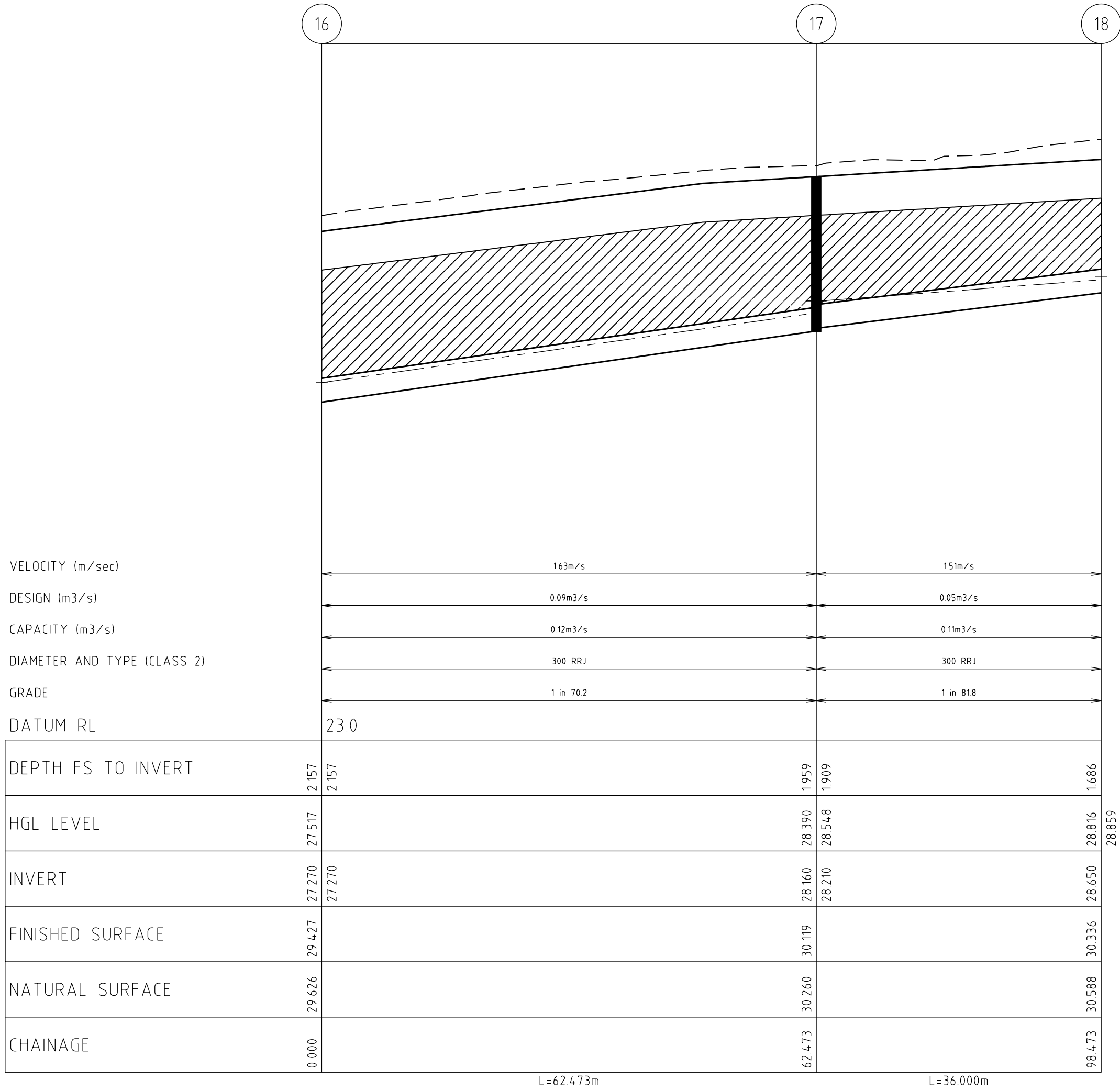
INDICATES 5YR HGL

DRAINAGE LONGITUDINAL SECTIONS

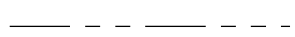
SCALE HORIZONTAL 1:500
VERTICAL 1:50



AMENDMENTS					breese pitt dixon pty. ltd. land surveyors		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310			
					MELWAY REF. 135-D-4	DELARAY ESTATE STAGE 18		MUNICIPALITY CASEY		
					SURVEY BPD			REFERENCE 8974 E/18		
					DESIGN GL					
A	07/04/20	ISSUED FOR CONSTRUCTION		DRAWN GL	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE JAN '20	SHEET 7 OF 9	A



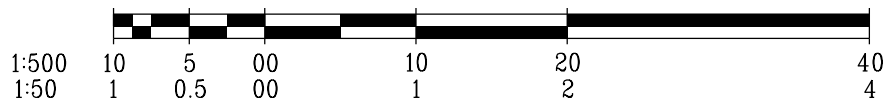
INDICATES CRUSHED ROCK BACKFILL



INDICATES 5YR HGL

DRAINAGE LONGITUDINAL SECTIONS

SCALE HORIZONTAL 1:500
VERTICAL 1:50



PIT SCHEDULE

PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET		OUTLET		TOP PIT RL	DEPTH INVERT	REMARKS
				INVERT	DIA	INVERT	DIA			
1	END OF PIPE			26.96	600			29.07	2.11	CONNECT TO EXISTING PIPE
2	JUNCTION PIT	900	900	27.10	525	27.05	600	29.19	2.14	EDCM STD DWG 605 (HAUNCHED)
3	GRADED ENTRY PIT (SM2)	900	900	27.13	375					
				27.24	450	27.19	525	29.31	2.12	EDCM STD DWG 603 (HAUNCHED)
4	END OF PIPE			27.30	300					
						27.36	450	29.47	2.11	
5	GRADED ENTRY PIT (SM2)	900	600	27.35	300	27.30	375	29.39	2.09	EDCM STD DWG 603
6	GRADED ENTRY PIT (SM2)	900	600	27.35	375					
				28.25	300	28.20	300	29.96	1.76	EDCM STD DWG 603
7	END OF PIPE					29.00	300	30.68	1.68	
8	GRADED ENTRY PIT (SM2)	900	600	27.55	375	27.50	375	29.39	1.89	EDCM STD DWG 603
9	JUNCTION PIT	900	600	27.73	300	27.68	375	29.54	1.86	EDCM STD DWG 605
10	GRADED ENTRY PIT (SM2)	900	600	28.10	300					
				28.50	300	28.50	300	30.14	1.64	EDCM STD DWG 603
11	END OF PIPE					28.95	300	30.68	1.73	
12	JUNCTION PIT	900	600	28.55	300	28.50	300	29.72	1.22	EDCM STD DWG 605
13	JUNCTION PIT	900	600	29.35	300	29.30	300	30.60	1.30	EDCM STD DWG 605
14	END OF PIPE					29.75	300	30.94	1.19	
15	GRADED ENTRY PIT (SM2)	900	600			27.45	300	29.33	1.88	EDCM STD DWG 603
16	END OF PIPE			27.27	300			29.43	2.16	CONNECT TO EXISTING PIPE
17	GRADED ENTRY PIT (SM2)	900	600	28.21	300	28.16	300	30.12	1.96	EDCM STD DWG 603
18	END OF PIPE					28.65	300	30.34	1.69	
19	END OF PIPE			27.34	300			29.43	2.09	CONNECT TO EXISTING PIPE
20	GRADED ENTRY PIT (SM2)	900	600	28.25	300	28.20	300	30.11	1.91	EDCM STD DWG 603
21	END OF PIPE					28.68	300	30.34	1.66	

AMENDMENTS					breese pitt dixon Pty. Ltd.		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310							
					land surveyors		civil engineers							
					MELWAY REF. 135-D-4		DELARAY ESTATE STAGE 18							
					SURVEY BPD									
					DESIGN GL									
						REFERENCE		MUNICIPALITY						
						DRAWN GL		CASEY						
A	07/04/20	ISSUED FOR CONSTRUCTION				8974 E/18								
VER	DATE	REMARKS	CHECKED	SCALE	AS SHOWN	DATUM	AHD	DATE	JAN '20	SHEET	8	OF	9	A

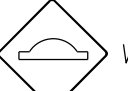


SIGNAGE LEGEND

[A] STREET SIGNS

[B] 'NO ROAD SIGN' AND OBSTRUCTION MARKER SIGN  D4-5

[C] GIVE WAY SIGN

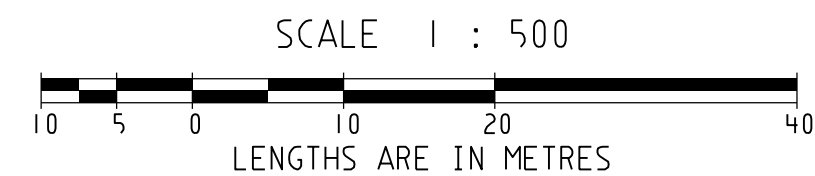
[D] ROAD HUMP SIGN - CLASS 1 & 20km/h ADVISORY SIGN - CLASS 1  W5-10A  W8-2A

NOTES

a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.

b) SWLM - INDICATES SOLID WHITE "LONGLIFE" LINE MARKING
BWM - INDICATES BROKEN WHITE "LONGLIFE" LINE MARKING

SIGNAGE AND LINEMARKING PLAN
SCALE 1:500



				breese pitt dixon pty. ltd. land surveyors		civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310							
			MELWAY REF.	135-D-4		DELARAY ESTATE STAGE 18			MUNICIPALITY						
			SURVEY	BPD					CASEY						
			DESIGN	GL					REFERENCE						
B	28/08/20	SPEED HUMPS ADDED VIELO CIRCUIT NTH & STH					8974 E/18								
A	07/04/20	ISSUED FOR CONSTRUCTION													
VER.	DATE	REMARKS	CHECKED	SCALE	AS SHOWN	DATUM	AHD	DATE	JAN '20		SHEET	9	OF	9	B