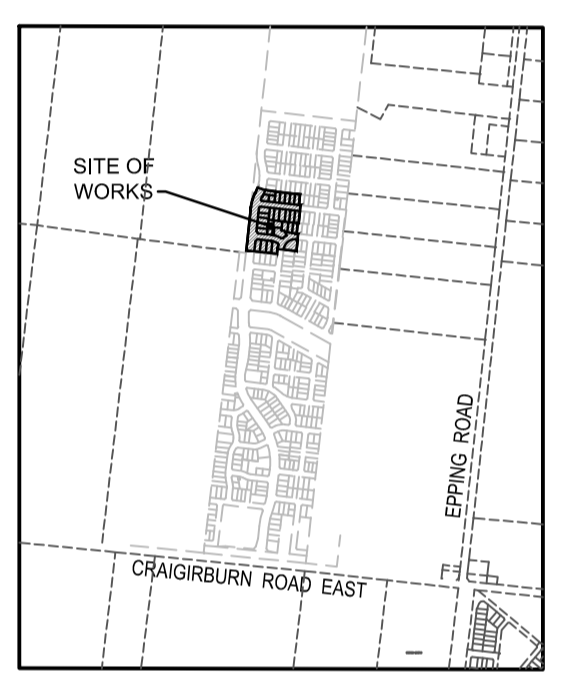


SERVICES OFFSETS AND LOCATIONS

STREET NAME	Rd RESERVE	WATER		GAS	ELECTRICITY		FIBRE TO THE HOME		Bk. of KERB	JOINT TRENCHING
		DW	NDW		CABLES	POLES	FTTH CABLES	FTTH PITS		
EQUESTRIA BOULEVARD	21.50/21.25	3.55 E	2.90 E	2.25 E	2.25 W	1.00 BOK	1.65 W	1.65W/1.85E	5.85E 3.75W/3.50W	W & G, F & E
MOSELEY WAY	16.00	3.05 N	2.55 N	2.10 N	2.60 S	1.00 BOK	1.85 S	1.70N/1.85S	4.20N/4.20S	W & G, F & E
PANAMA STREET	16.00	3.05 S	2.55 S	2.10 S	2.60 N	1.00 BOK	1.85 N	1.70S/1.85N	4.20N/4.20S	W & G, F & E
RANTERRA ROAD	16.00	3.05 N	2.55 N	2.10 N	2.60 S	1.00 BOK	1.85 S	1.70N/1.85S	4.20N/4.20S	W & G, F & E

NOTE: STREET TREES TO BE LOCATED IN THE CENTRE OF NATURE STRIPS

SHT. No.	VER	DRAWING INDEX	
		DESCRIPTION	
1	C	LAYOUT PLAN & SERVICES SCHEDULE	
2	B	NOTES, PAVEMENT COMPOSITION, DETAILS & TYPICAL SECTIONS	
3	B	INTERSECTION DETAILS & DETAIL NOTES	
4	B	LONGITUDINAL SECTIONS - EQUESTRIA BOULEVARD	
5	B	CROSS SECTIONS - EQUESTRIA BOULEVARD	
6	B	LONGITUDINAL & CROSS SECTIONS - PANAMA STREET	
7	B	LONGITUDINAL & CROSS SECTIONS - MOSELEY WAY	
8	B	LONGITUDINAL & CROSS SECTIONS - RANTERRA ROAD	
9	B	DRAINAGE LONGITUDINAL SECTIONS	
10	B	DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE	
11	B	DRAINAGE LONGITUDINAL SECTIONS	
12	B	SIGNAGE & LINEMARKING PLAN	



LOCALITY PLAN
1:20,000

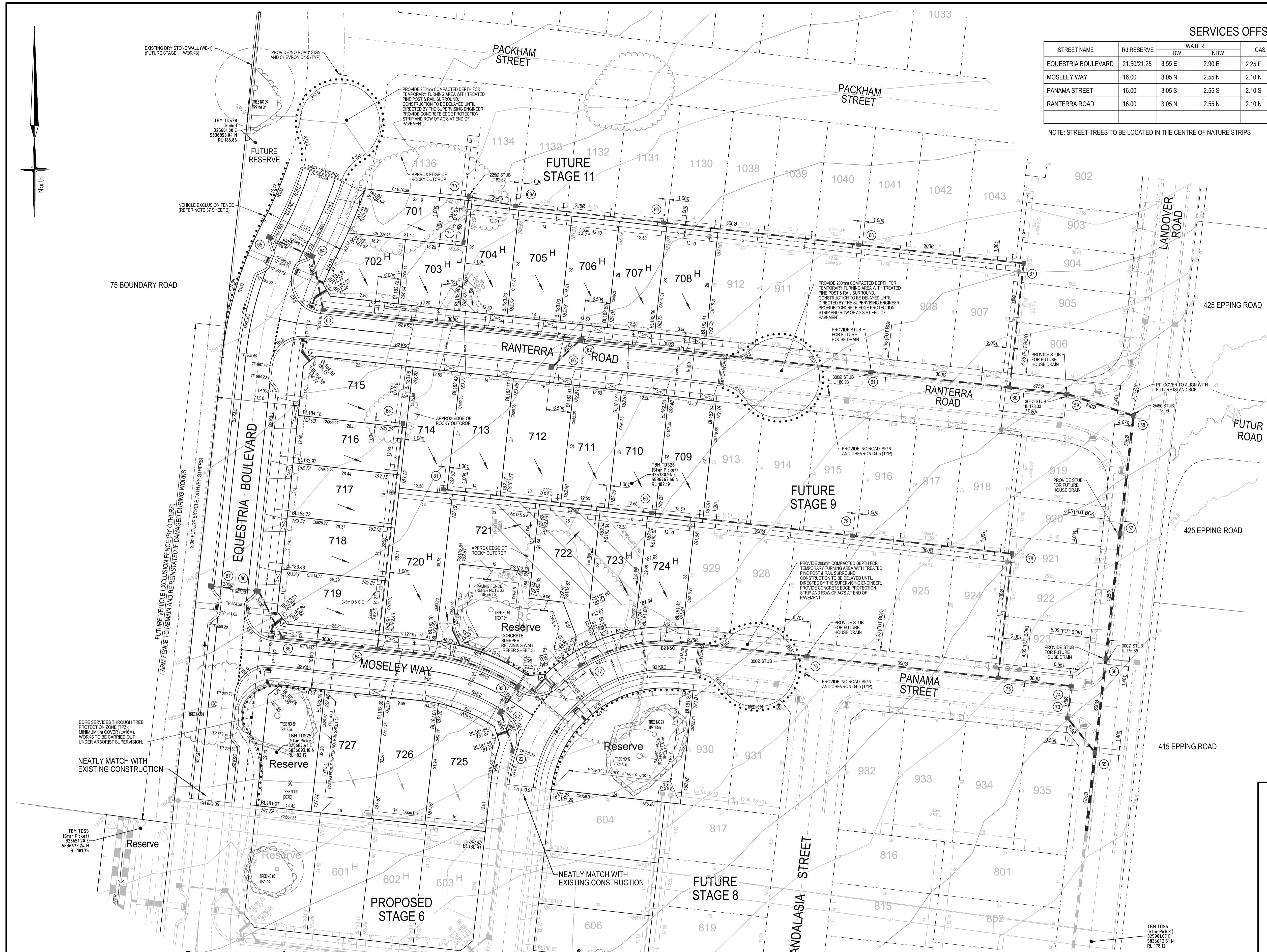
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

- 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 ABUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVED MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.

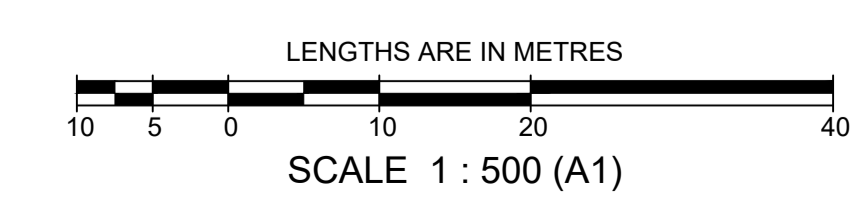
SYMBOL LEGEND

Drains	Prop	Exist	Ex/Natural/FS Level	28.87	28.87	28.87
Sewer <300	-S-	-S-	FS @ Building Line	100.27	100.27	100.27
Sewer >300	-S-	-S-	Top/Toe of Batter	100.27	100.27	100.27
Water	-W-	-W-	Top Ret. Wall Level	100.27	100.27	100.27
House Drain	-H-	-H-	100yr Flood Level	100.27	100.27	100.27
Property Inlet	-P-	-P-	Fill Prop/Ex	100.27	100.27	100.27
Street Sign	-S-	-S-	Cut Prop/Ex	100.27	100.27	100.27
PSM	-P-	-P-	ROCK RET WALL	100.27	100.27	100.27
Retaining Wall	-R-	-R-	SLEEPER RET WALL	100.27	100.27	100.27
Conduits 50mm	-G-	-G-				
Conduits 100mm	-G-	-G-				
Ex Gas/Elect/Tel	-G-	-G-				

TREE PROTECTION ZONE (TPZ) TREE TO BE REMOVED



PLAN



		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cafo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 389-B-11		SURVEY BPD		MUNICIPALITY WHITTLESEA	
DATE 3/11/21		AMENDED EASEMENT/SEWER IN LOT 719		REFERENCE 8625 E/07	
DATE 6/10/21		ESTATE NAME, DW/NDW OFFSETS EQUESTRIA, SHEET INDEX REVISED		SHEET 1 OF 12	
DATE 17/12/19		ISSUED FOR CONSTRUCTION		SCALE As Shown	
DATE		CHECKED		DATUM AHD	
DATE		REMARKS		DATE Nov'19	
DATE		CHECKED		SHEET 1 OF 12	

NOTES

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PLANS AND CURRENT CITY OF WHITTLESEA SPECIFICATIONS AND STANDARD DRAWINGS APPROVED BY COUNCIL AND TO THE SATISFACTION OF THE ENGINEER.
- COUNCIL TO BE NOTIFIED 2 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- DRAINAGE AND PITS TO BE SETOUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. REFER EDM601-608 FOR FURTHER DETAILS.
- ALL PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED AND SHALL BE RRIJ UP TO AND INCLUDING 750mm DIAMETER. PIPES ABOVE THIS SIZE MUST BE FLUSH, JOINTED WITH EXTERNAL SEALING BANDS. ALL DRAINS THAT CROSS UNDER ROAD PAVEMENTS ARE TO BE CLASS 4 R.C.P.
- JOINING FOR CURVED PIPE ALIGNMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS (RIR'S FOR MINOR DEFLECTIONS OR COMPLETE R.C. BANDAGES)
- PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN.
- LOTS DENOTED THUS 416H ARE TO BE PROVIDED WITH A 100mm HOUSE DRAIN PLACED 5.5m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN. HOUSE DRAINS TO BE CONNECTED TO STREET DRAINAGE WITH 27A & CAP, CLEAR OF ANY PAVING. IF CONNECTION IS WITHIN PAVING A PIT MUST BE USED.
- APPROVED GRANULAR BACKFILL TO BE PROVIDED WHERE PIPE TRENCHES ENCR OACH UNDER ROADWAY DUE TO DEEP EXCAVATIONS IN ROCK.
- SHALLOW CUT OFF DRAINS ARE TO BE PROVIDED ON SUBDIVISION BOUNDARY WHERE NECESSARY.
- 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.
- AGRICULTURAL PIPE DRAINS TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER (REFER TO STD DRG EDM202).
- ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, KERB & CHANNEL, PARKING BAYS DRIVEWAYS, FOOTPATHS AND BEHIND KERB & CHANNEL SHALL BE BACKFILLED WITH CRUSHED ROCK
- BATTERS SHALL BE 1 IN 6 FOR CUT & FILL UNLESS OTHERWISE SHOWN. BATTERS EXCEEDING 1 IN 6 MUST BE STABILISED AS PER COUNCIL REQUIREMENT.
- ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER.
- LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF RUBBISH AND SPOIL FROM SITE.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO COMMENCEMENT OF WORKS.
- ALL MATERIAL SURROUNDING SERVICE AUTHORITY PITS LOCATED IN FOOTPATHS MUST BE ADEQUATELY COMPACTED IN 150mm LAYERS AND TESTED TO THE SATISFACTION OF THE CITY OF WHITTLESEA PRIOR TO THE CONSTRUCTION OF FOOTPATH BAYS ADJACENT TO THESE PITS.
- 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.
- ALL GAS AND WATER CONDUITS FOR RESIDENTIAL LOTS TO BE PVC CLASS 12, 50mm DIAMETER & 100mm DIAMETER RESPECTIVELY.
- TELSTRA/NBN Co TO BE NOTIFIED 7 DAYS PRIOR TO CONCRETE BEING PLACED.
- CONDUITS ARE TO BE EXTENDED 450mm BEHIND FACE OF KERB AND TO BE REFERENCED ON FACE OF KERB.
- ALL STREET SIGNS TO BE CONSTRUCTED AND ERECTED TO CURRENT CITY OF WHITTLESEA STANDARDS. STREET NAME PLATES TO BE IN ACCORDANCE WITH STANDARD DRAWING SD825, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.
- 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.
- ALL DRIVEWAYS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDM601 & 502 AND ARE TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN.
- ALL DRIVEWAY RAMPS INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 6.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. FILLING TO BE CLEAN CLAY COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1289.5.2.1-2003. CONTROL TESTING TO COMPLY WITH AS3798-2007 APPENDIX B, LEVEL 1.
- 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.
- FILL REQUIRED UNDER ROADWAY KERB AND CHANNEL AND FOOTPATH TO BE UNDERTAKEN AS PER COUNCIL'S CONSTRUCTION SPECIFICATION FOR ROAD & DRAINAGE WORKS 20.6 (TYPE A MATERIAL AS PER VICROADS STANDARD SPECIFICATION 204) AND COMPACTED TO 98% AASHO IN 150mm LAYERS.
- PAVEMENT DEPTH MAY NOT BE ALTERED WITHOUT WRITTEN APPROVAL FROM CITY OF WHITTLESEA DEVELOPMENT ENGINEERING UNIT PRIOR TO THE COMMENCEMENT OF WORKS. ADDITIONAL COSTS WILL NOT BE CONSIDERED POST TENDER.
- THE CONTRACTOR IS TO ORGANISE AND PAY FOR TESTING OF PAVEMENT BASE COURSE MATERIAL AND FINAL LAYER OF CRUSHED ROCK. A COPY OF RESULTS IS TO BE FORWARDED TO THE DIRECTOR OF ENGINEERING OR HIS REPRESENTATIVE. THE RESULTS MUST MEET THE REQUIREMENTS OF THE CITY OF WHITTLESEA SPECIFICATION BEFORE ANY FURTHER WORKS ARE REQUIRED.
- 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-INSTALLMENT AT THE CONTRACTORS EXPENSE.
- 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 MW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS. THE SMP SHALL BE APPROVED BY CITY OF WHITTLESEA DEVELOPMENT ENGINEERING UNIT PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL FOOTPATHS IN ROADS TO BE OFFSET 50mm FROM PROPERTY BOUNDARY. FOOTPATHS CONSTRUCTED ABOVE EXISTING LEVEL TO BE CONSTRUCTED ON APPROVED FILL (TO AS-3798) OF F.C.R. INTO NATURAL GROUND.

- PRIOR TO COMMENCEMENT OF WORKS TREE PROTECTION ZONES (TPZ) ARE TO BE INSTALLED AS SPECIFIED IN THE ANNOTATED DETAILS FORMING PART OF THE PLANNING PERMIT TO 'TREES NOTED' TO BE RETAINED'. THIS INCLUDES THE FOLLOWING
 - RING LOCK WIRE MESH MINIMUM 1.20m HIGH (STD DRG SDL2.02)
 - MAIN POSTS 100mm TREATED PINE (TP), MINIMUM 1.80m HIGH
 - INTERMEDIATE POSTS STEEL STAR PICKETS (SP), MINIMUM 1.80m HIGH
 - THE CORNER POSTS ARE TO BE TP WITH TP STAYS
 - EVERY THIRD POST TO BE TP
 - SP TO BE PLACED INTERMEDIATELY BETWEEN THE TP AT MAX 3.0m INTERVALS
 - THE RING LOCK MESH TO ENIRCLE THE STRUCTURE AND BE FIRMLY SECURED AT EACH POST
 - POSTS MUST BE SUNK INTO THE GROUND BY 450mm (THERE IS TO BE NO CONCRETE TO SECURE POSTS AS THIS WILL AFFECT pH LEVELS)
 - HIGH VISIBILITY HAZARD MARKER TAPE SECURELY FIXED TO TOP OF WIRE MESH FENCE WITH WIRE TIES
 - THE TREE PROTECTION ZONE IS TO BE CLEARLY SIGN POSTED IN ACCORDANCE WITH CONDITION 20 OF THE PLANNING PERMIT (STD DRG SDL2.03)

NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY TREE UNTIL APPROVAL IS GIVEN BY THE ENGINEER.

- PROVIDE FENCING ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. FENCING TO BE ERECTED BY THE DEVELOPER AT NO COST TO COUNCIL. PALINGS/PICKETS TO BE ON THE RESERVE SIDE AND CONSTRUCTED GENERALLY IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SDL 3.11a & SDL 3.12a - WITH 15mm CHAMFERS AT TOP OF POSTS AND THE FOLLOWING VARIATIONS. FENCE PORTIONS TO CONSIST OF TYPES A, B & C AS DEFINED BELOW:
 - TYPE A - TO CONSIST OF A 1.2m HIGH SEMI-TRANSPARENT FENCE (SDL 3.12a). PROVIDE A 150mm GAP BETWEEN PICKETS. TYPE A IS TO COMMENCE FROM THE FRONT CORNER PEG. LENGTH IS TO BE 5m MIN UNLESS OTHERWISE SHOWN.
 - TYPE B - TO CONSIST OF A 1.8m HIGH SEMI-TRANSPARENT FENCE (SDL 3.11a). PROVIDE A 20mm GAP BETWEEN PALINGS. TYPE B IS TO COMMENCE IMMEDIATELY AFTER TYPE A FENCING. LENGTH IS TO BE 5m MIN UNLESS OTHERWISE SHOWN.
 - TYPE C - TO CONSIST OF A 1.8m HIGH SOLID FENCE (SDL 3.11a). LENGTH IS TO COMPLETE THE BALANCE OF ANY SIDE OR REAR BOUNDARY FENCING AS INDICATED ON THE LAYOUT PLANS.

- VEHICLE EXCLUSION FENCING TO BE PROVIDED ALONG THE ROAD FRONTS OF ALL RESERVES. REFER LANDSCAPE PLANS FOR FENCE DETAILS. FENCING TO BE CONSTRUCTED AS PART OF LANDSCAPE WORKS.

- EXISTING DRY STONE WALL TO BE REMOVED AND STOCKPILED IN ACCORDANCE WITH SECTION 5.2 OF COUNCIL APPROVED 'DRY STONE WALL FEATURE SURVEY AND MANAGEMENT PLAN (NOV 2017)' PREPARED BY ECOLOGY AND HERITAGE PARTNERS PTY LTD. REPLACE STONE WALL WITH A FARM FENCE (CABLE FENCE AS PER MW STD. DWG. 72518/203).

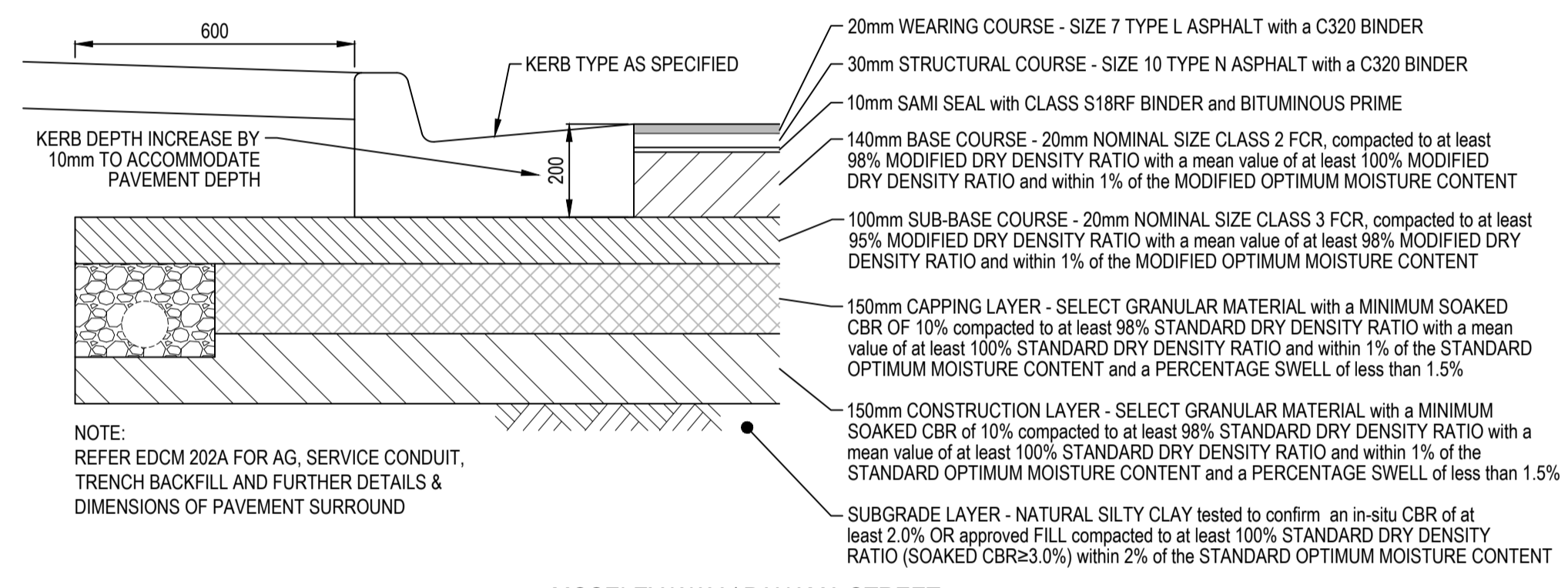
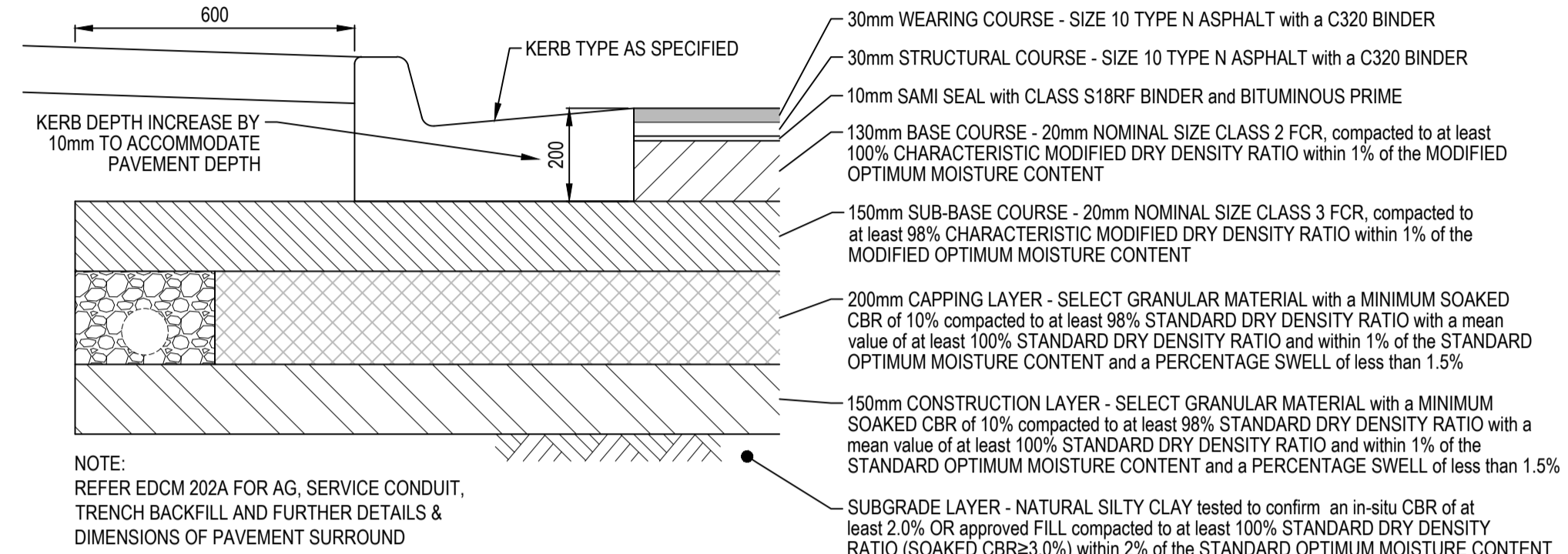
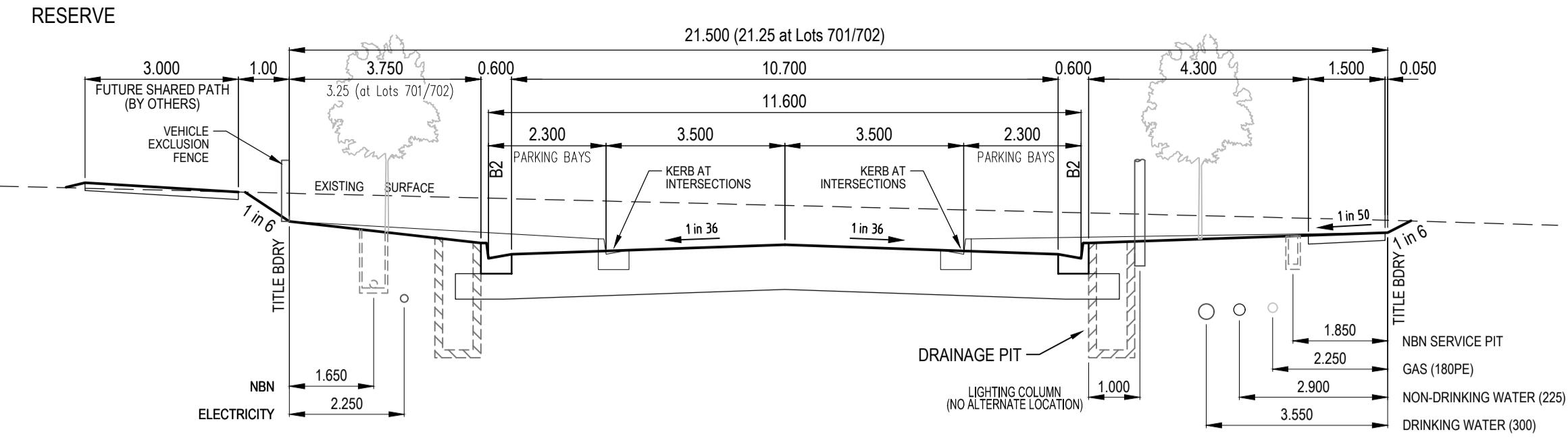
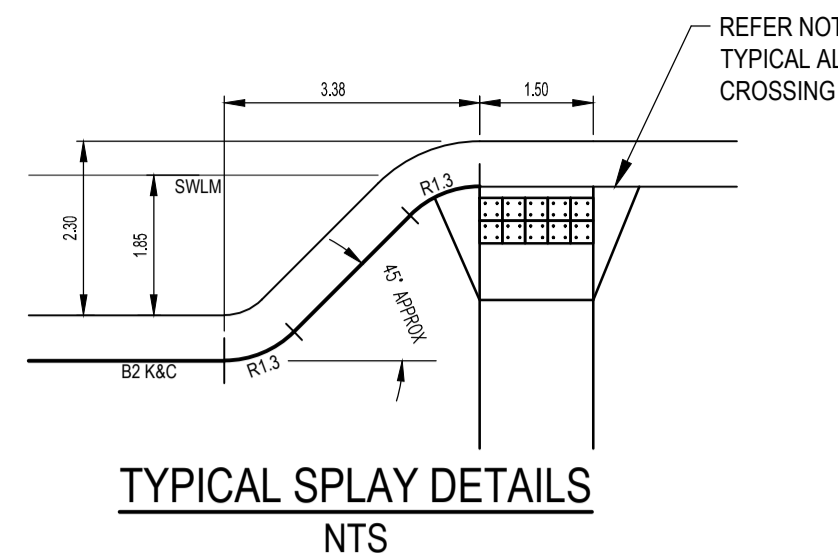
- CONTRACTOR TO ENSURE TEMPORARY FENCING IS IN PLACE DURING WORKS TO AVOID LIVESTOCK ESCAPING FROM ADJOINING FARM.

- TACTILE GROUND SURFACE INDICATORS (TSGI) ARE TO BE INSTALLED WHERE SHOWN IN ACCORDANCE WITH COUNCIL STD DRG SD320 AND AS1428.
- A BUILDING PERMIT MUST BE OBTAINED FOR ANY STRUCTURAL/RETAINING WALL EXCEEDING 1.0m IN HEIGHT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA. A COPY OF BUILDING PERMITS AND 'CERTIFICATE OF COMPLIANCE - CONSTRUCTION' TO BE SUBMITTED TO COUNCIL PRIOR TO STATEMENT OF COMPLIANCE.

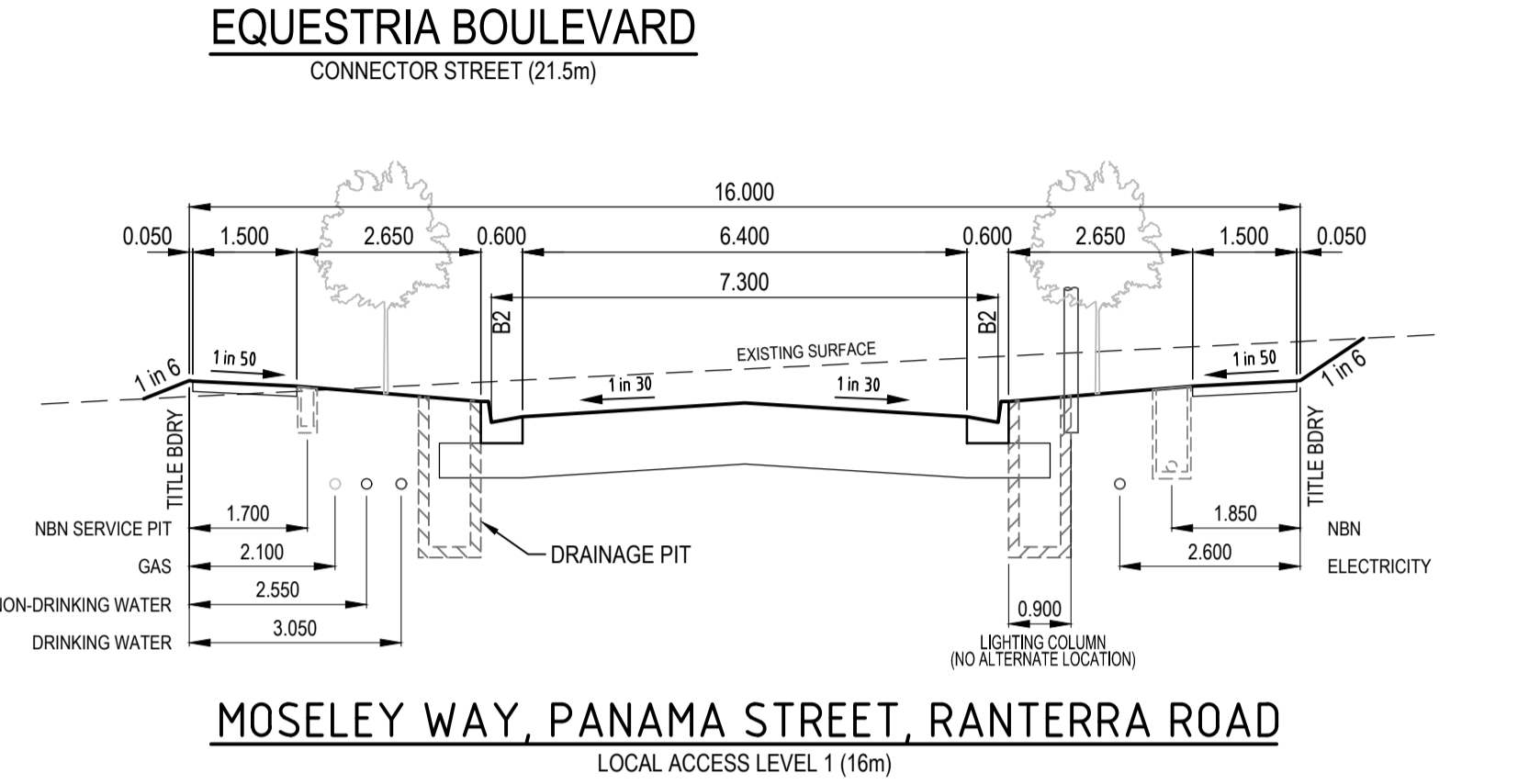
- ALL STRUCTURAL WORKS MUST BE SUPERVISED BY A QUALIFIED STRUCTURAL ENGINEER.

- ALL PEDESTRIAN CROSSINGS ARE TO BE CONSTRUCTED GENERALLY IN ACCORDANCE WITH EDM403. ALL PRAM CROSSING SPLAYS MUST BE 600mm WIDE AND NO GREATER.

- TREE REMOVAL IN ADJOINING PROPERTIES ARE TO BE REMOVED IN ACCORDANCE WITH APPROVED TREE REMOVAL PERMIT 716608 AND ARBORIST REPORT. TREES NOTED BELOW TO BE REMOVED, IF REQUIRED, IN CONSULTATION WITH COUNCIL AND PROPERTY OWNERS:
 - PROPERTY 395 EPPING ROAD - TREES 75, 76, 77 & 79
 - PROPERTY 405 EPPING ROAD - TREES 80 & 83

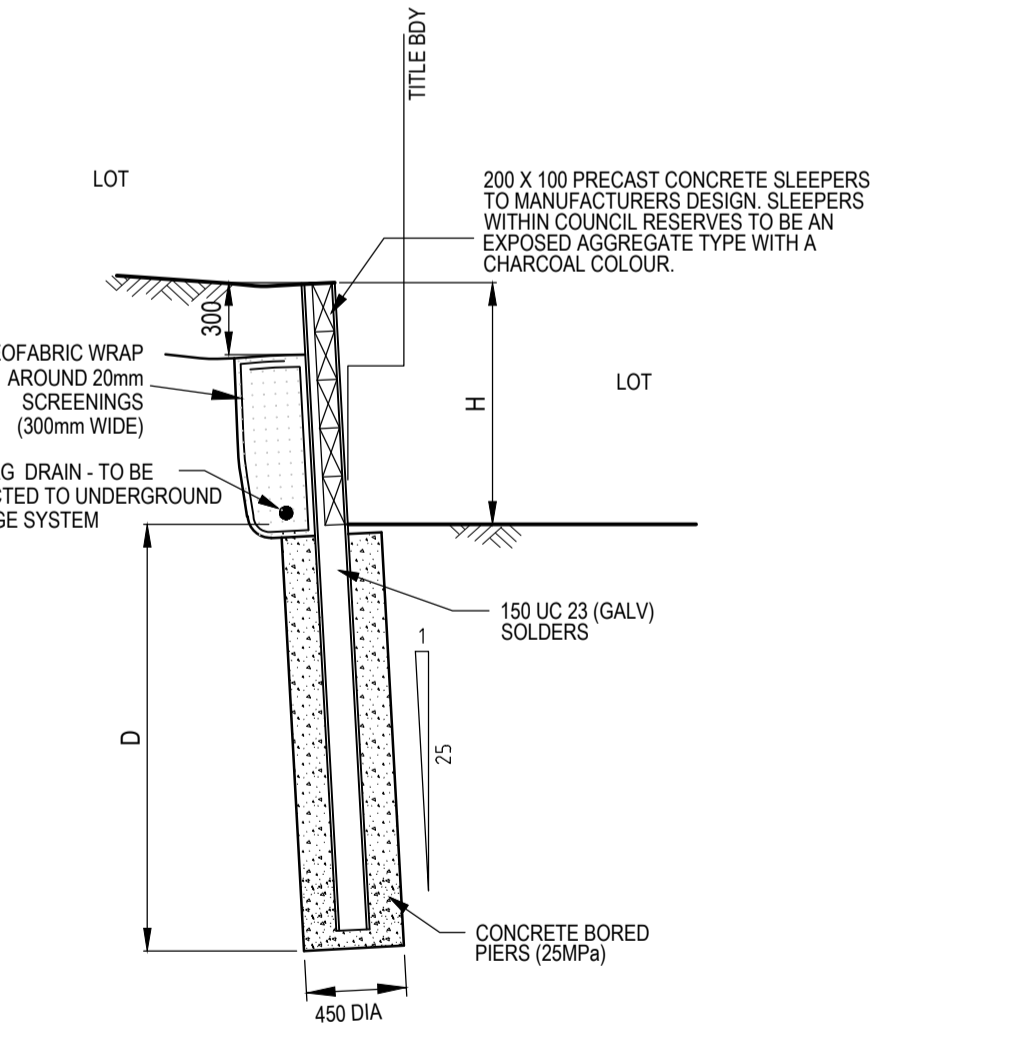


PAVEMENT COMPOSITION
NOT TO SCALE
REFER CARDNO GEOTECHNICAL REPORT 'V161524' Oct 2021



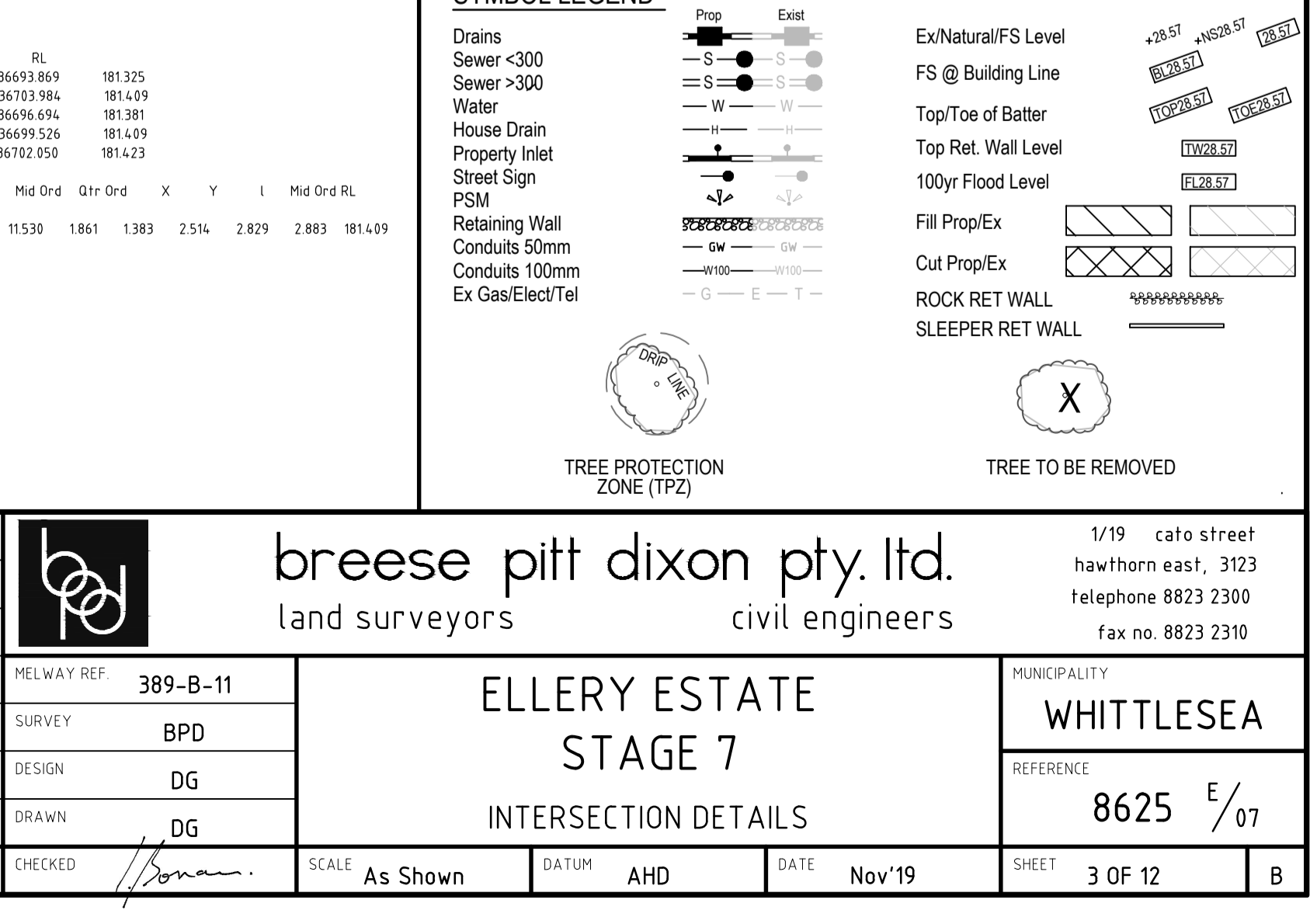
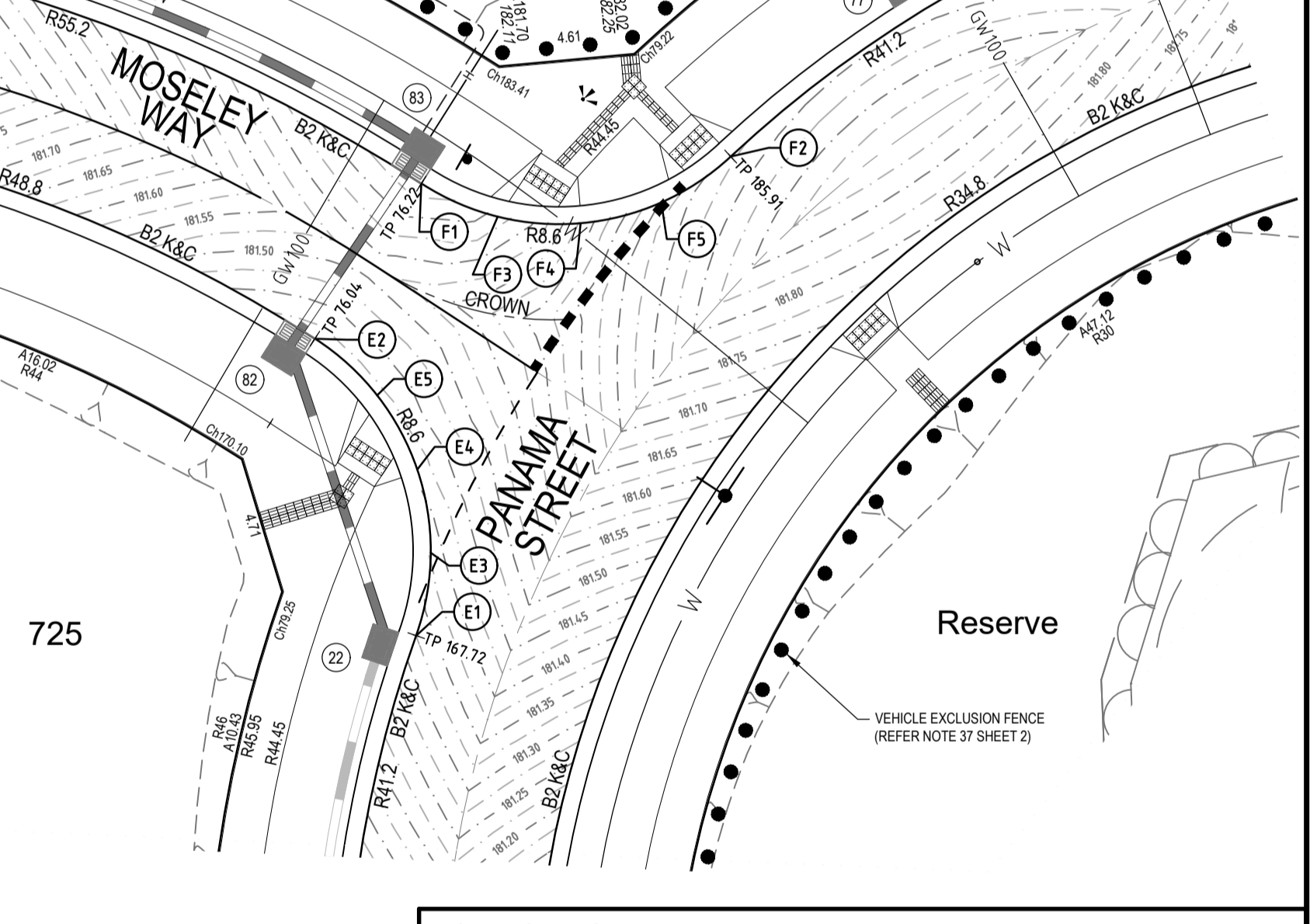
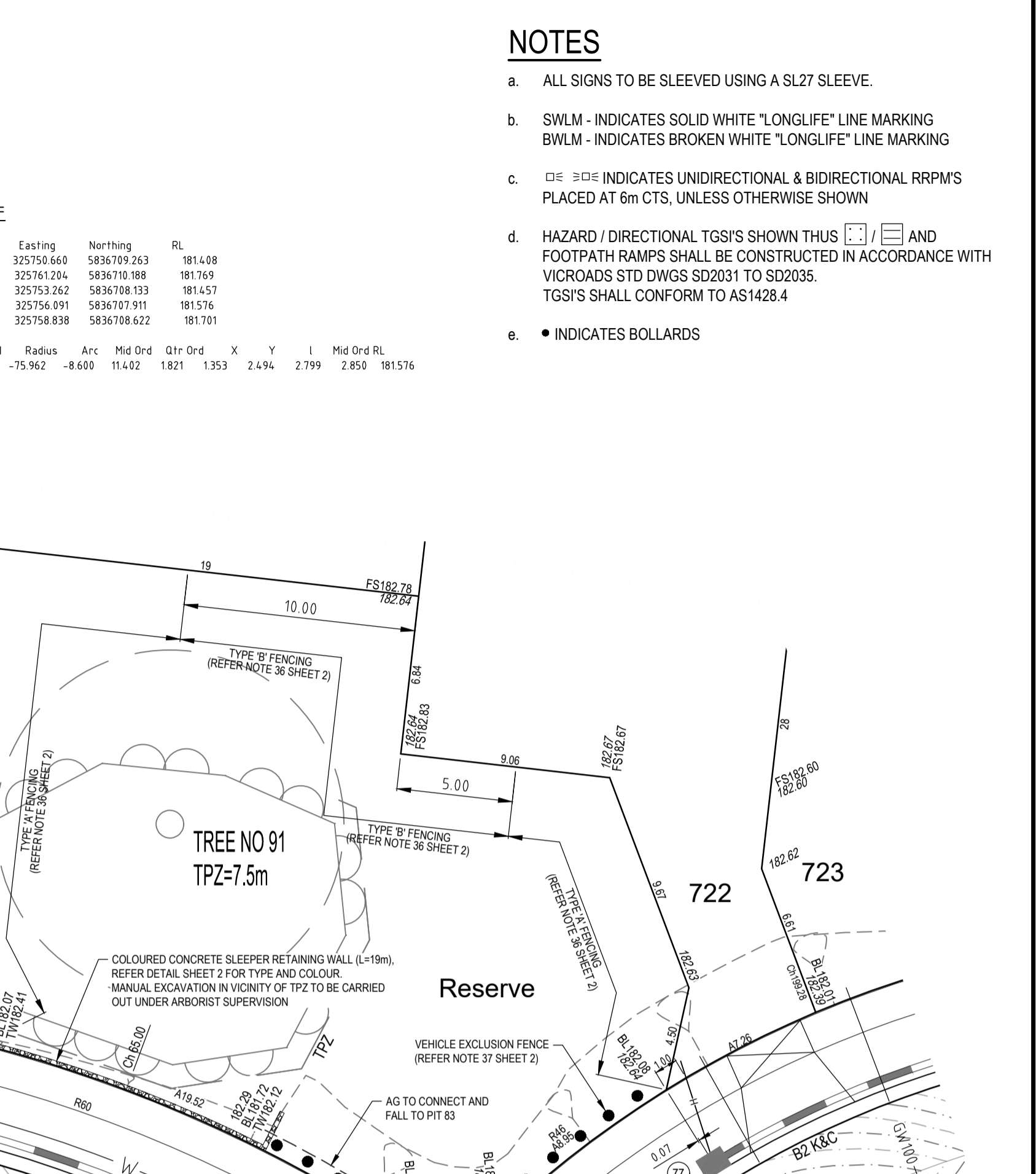
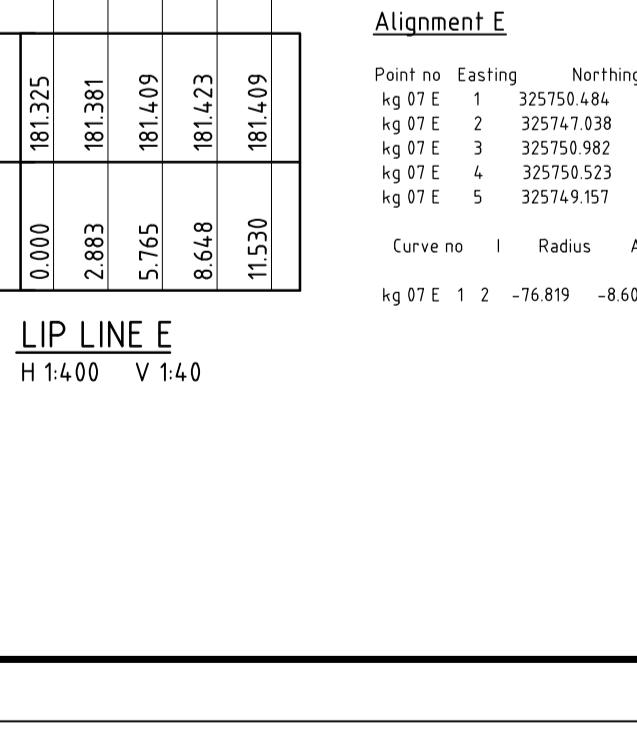
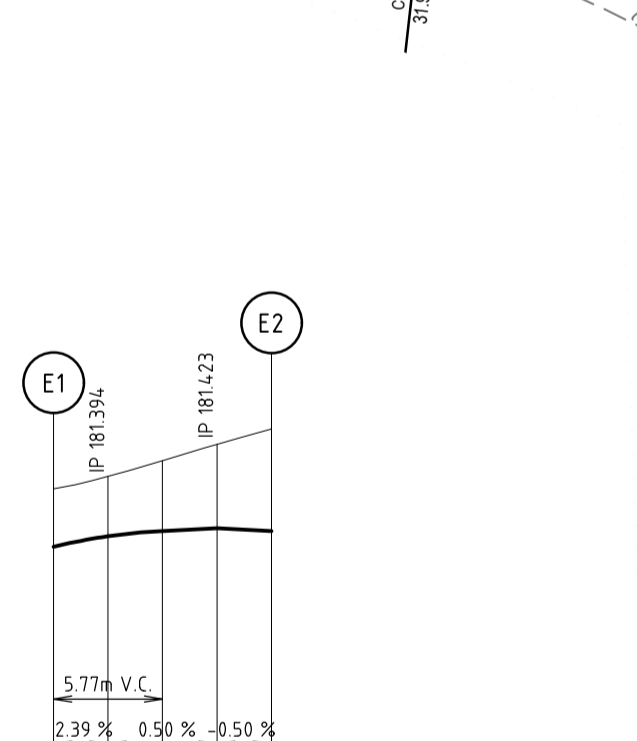
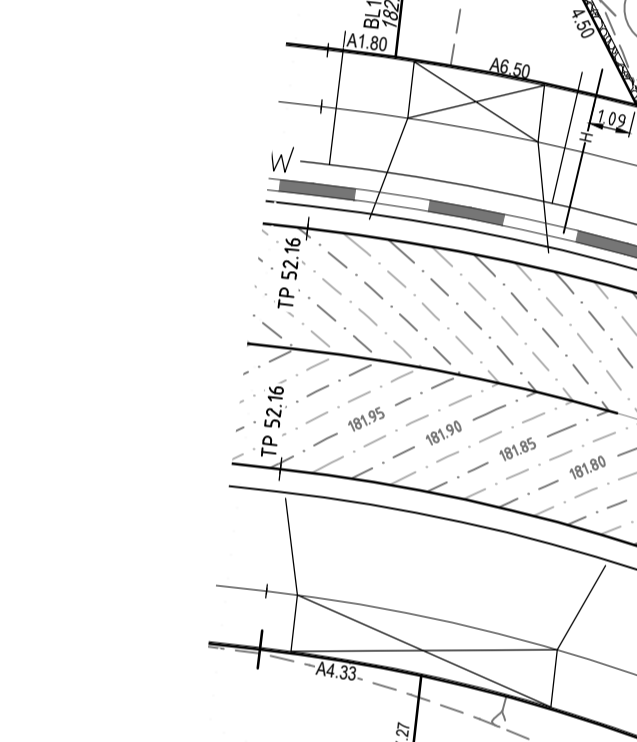
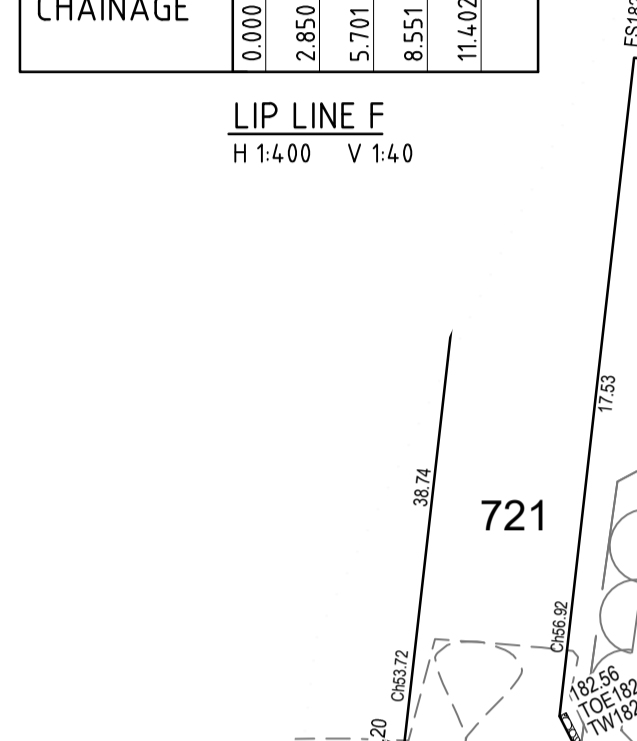
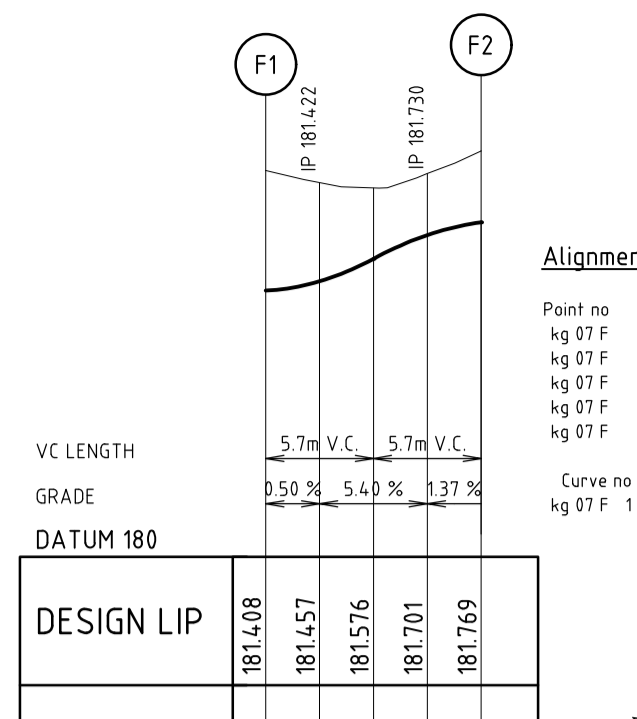
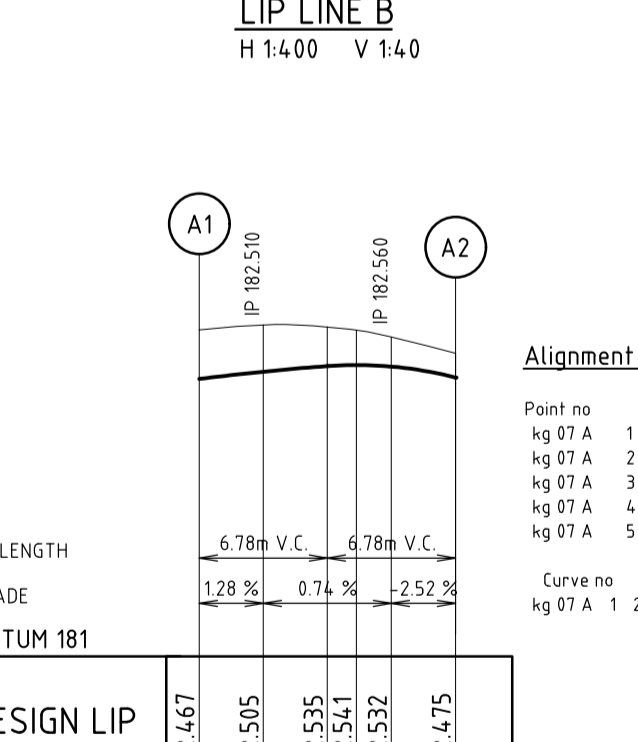
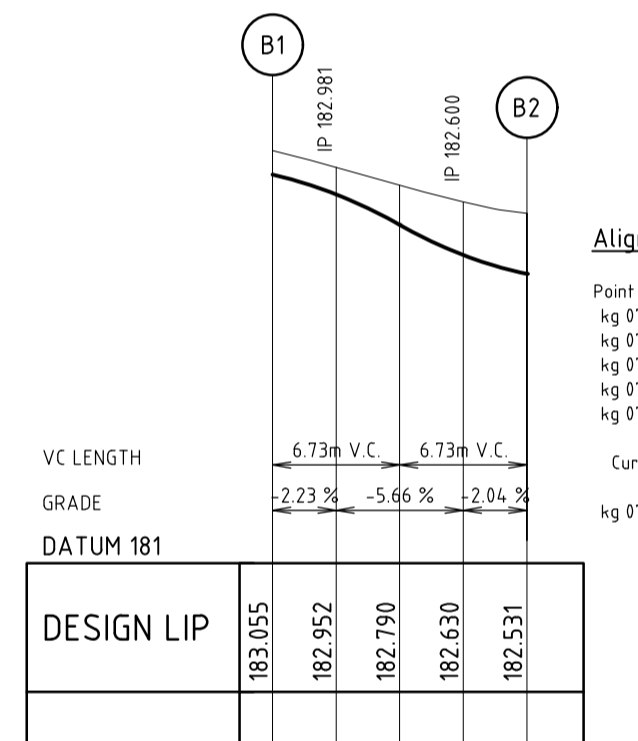
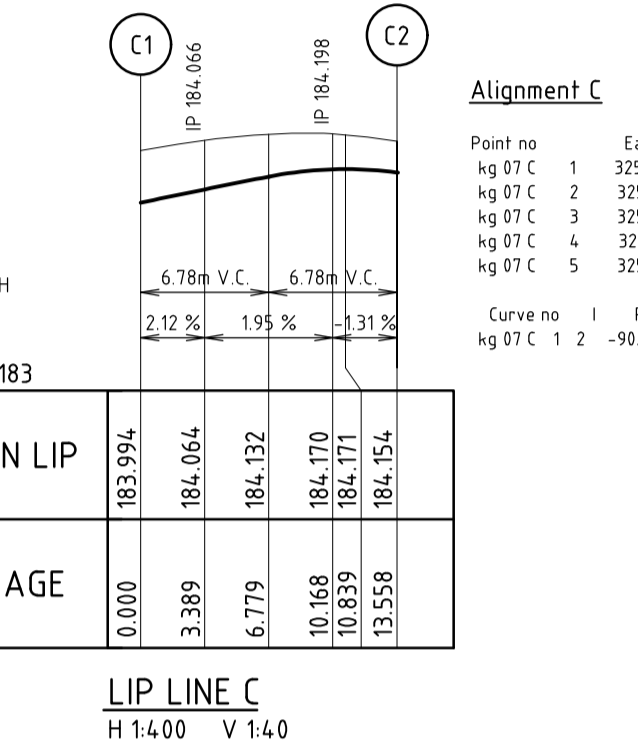
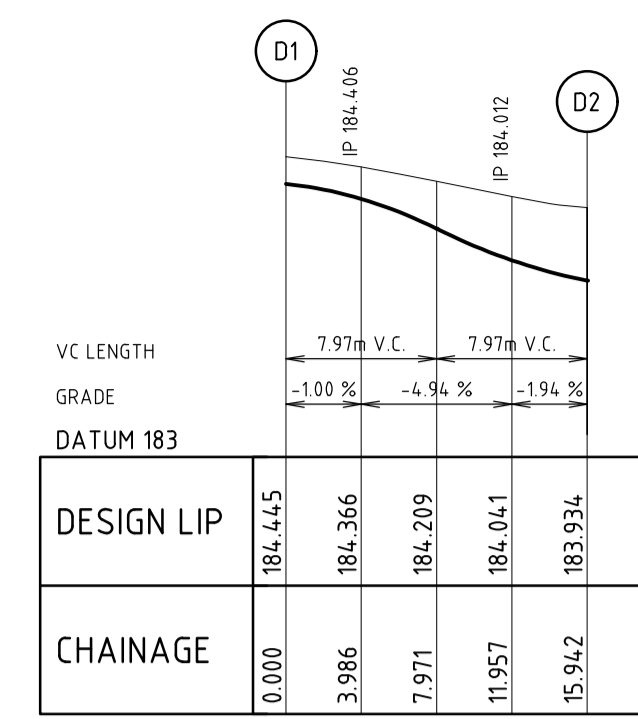
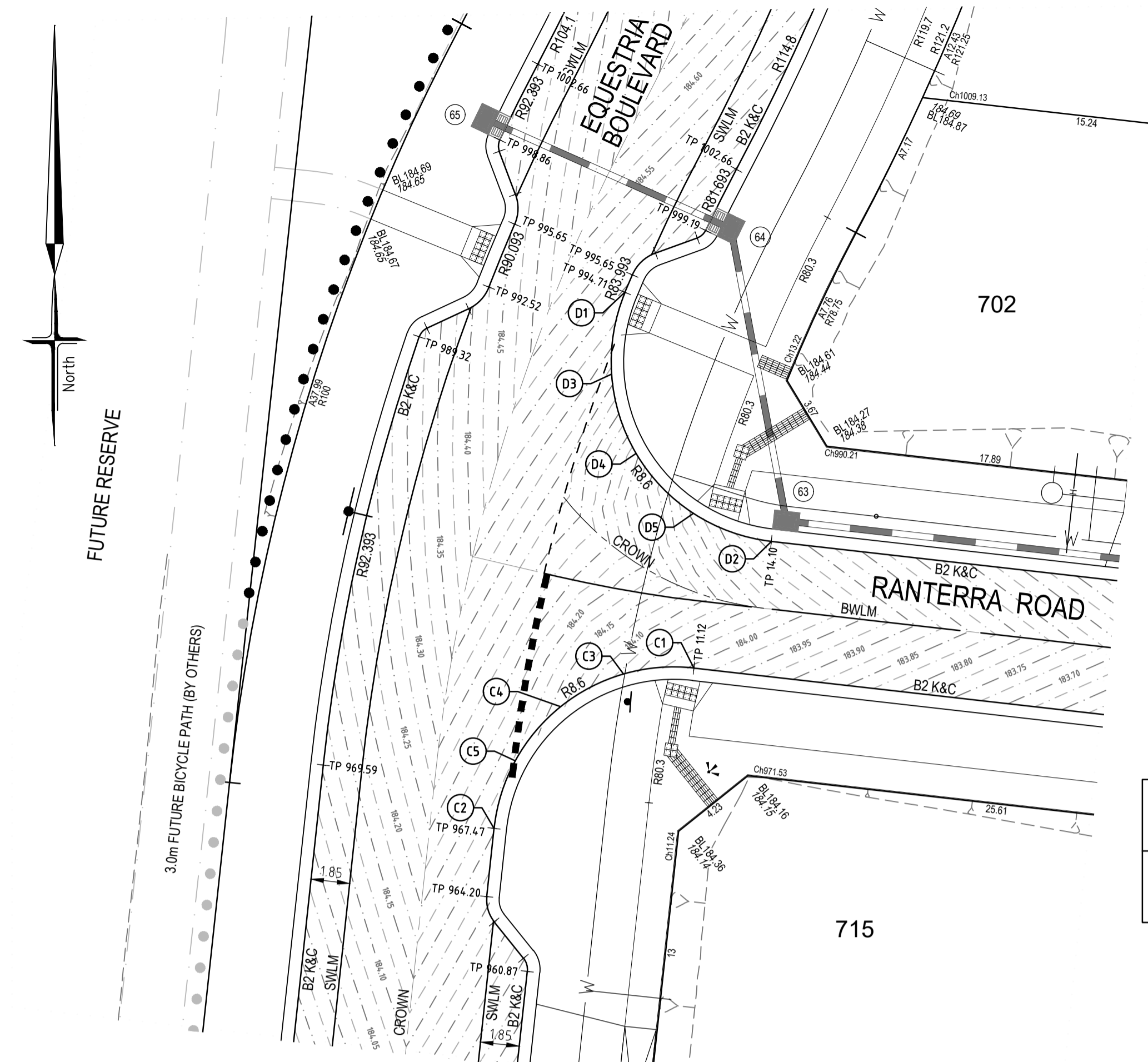
MAX WALL HEIGHT H	PIER DEPTH D ⁽¹⁾	PIER CENTER C (max)
200mm	600mm	2400mm
400mm	750mm	2400mm
600mm	900mm	2400mm

NOTES:
1) ALL STEEL WORK IS TO BE HOT DIPPED GALVANISED.
2) IF BEDROCK OR BASALT BOULDER IS ENCOUNTERED DURING PIER DRILLING PROVIDE 600 MIN SOCKET.



TYPICAL CONCRETE SLEEPER RETAINING WALL
NTS

		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cafo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 389-B-11		SURVEY BPD		MUNICIPALITY WHITTLESEA	
DESIGN DG		DRAWN DG		REFERENCE 8625 E/07	
CHECKED [Signature]		SCALE As Shown		DATUM AHD	
DATE 6/10/21		REMARKS ESTATE NAME, ALL PAVEMENT COMPOSITIONS, TYP SECT (EQUESTRIA) DW/NDW OFFSETS REVISED		DATE Nov'19	
DATE 17/12/19		REMARKS ISSUED FOR CONSTRUCTION		SHEET 2 OF 12	
VER.		REMARKS		B	



- NOTES**
- ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.
 - SWLM - INDICATES SOLID WHITE "LONG LIFE" LINE MARKING
BWLM - INDICATES BUNKER WHITE "LONG LIFE" LINE MARKING
 - ○ ○ ○ INDICATES UNIDIRECTIONAL & BIDIRECTIONAL RRPMS PLACED AT 6m CTS, UNLESS OTHERWISE SHOWN
 - HAZARD / DIRECTIONAL TGS'S SHOWN THUS [Symbol] AND FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGS'S SHALL CONFORM TO AS1428.4
 - INDICATES BOLLARDS

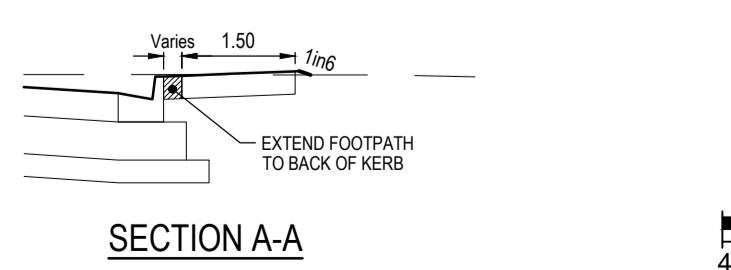
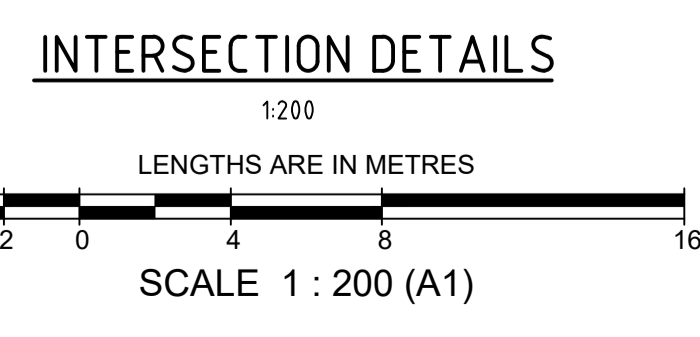
SYMBOL LEGEND

Prop	Exist
Drains	— S —
Sewer <300	— S —
Sewer >300	— S —
Water	— W —
House Drain	— H —
Property Inlet	— P —
Street Sign	— S —
PSM	— P —
Retaining Wall	— R —
Conduits 50mm	— G —
Conduits 100mm	— G —
Ex Gas/Elect/Tel	— G —

Ex/Natural/FS Level	— 28.87 —
FS @ Building Line	— 28.87 —
Top/Toe of Batter	— 28.87 —
Top Ret. Wall Level	— 28.87 —
100yr Flood Level	— 28.87 —
Fill Prop/Ex	— 28.87 —
Cut Prop/Ex	— 28.87 —
ROCK RET WALL	— 28.87 —
SLEEPER RET WALL	— 28.87 —

TREE PROTECTION ZONE (TPZ)

TREE TO BE REMOVED



breese pitt dixon pty. ltd.
land surveyors civil engineers

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

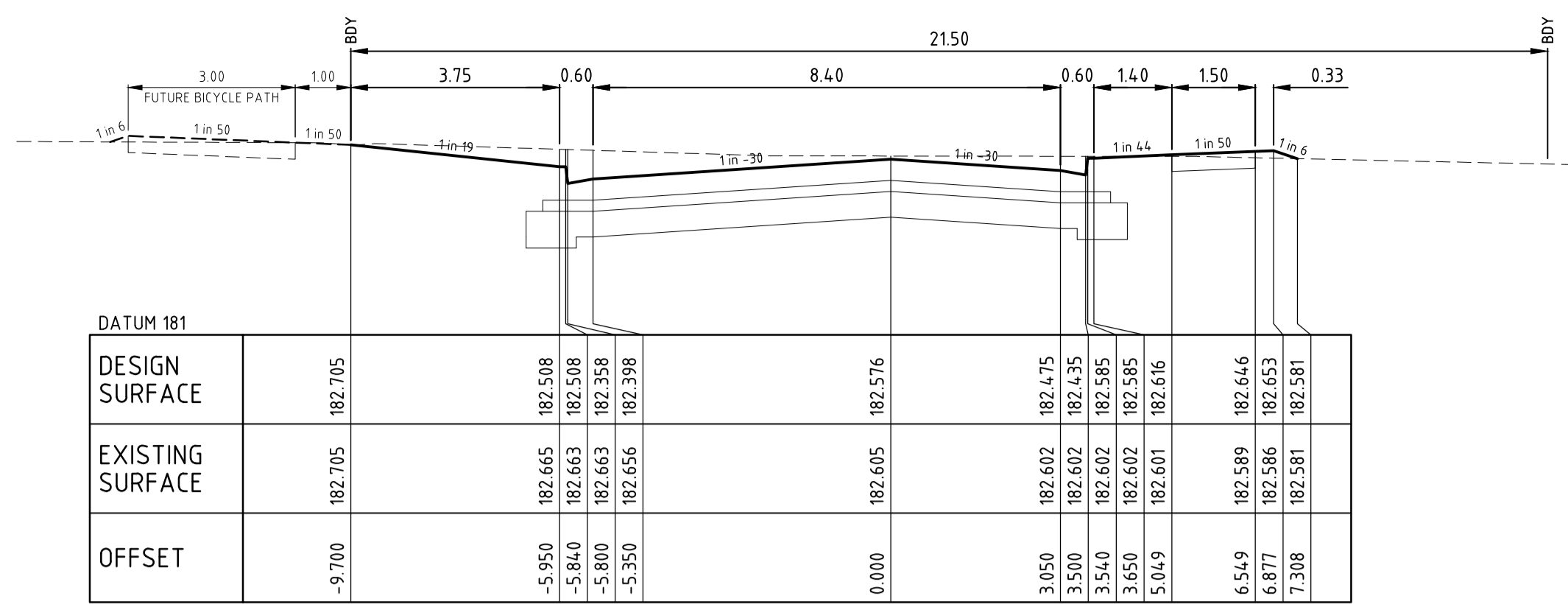
ELLERY ESTATE STAGE 7
INTERSECTION DETAILS

MELWAY REF: 389-B-11
SURVEY: BPD
DESIGN: DG
DRAWN: DG
CHECKED: [Signature]

DATE: 5/10/21
REMARKS: ESTATE NAME REVISED
DATE: 17/12/19
REMARKS: ISSUED FOR CONSTRUCTION

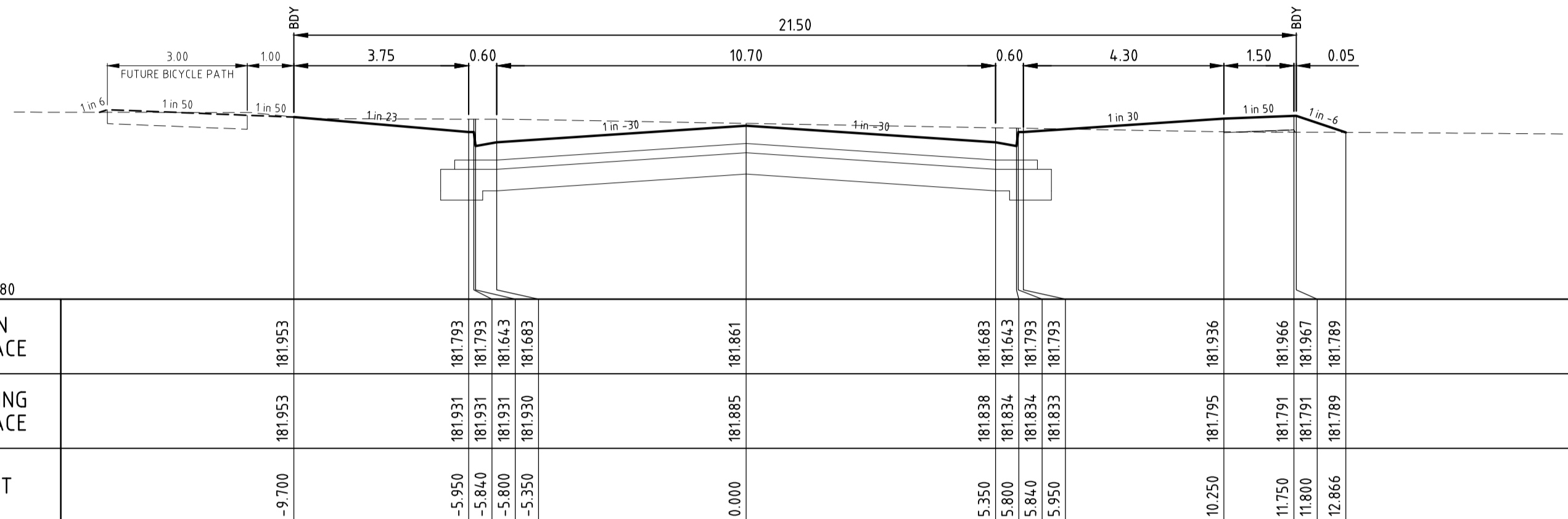
SCALE: As Shown
DATUM: AHD
DATE: Nov'19

MUNICIPALITY: WHITTLESEA
REFERENCE: 8625 E/07
SHEET: 3 OF 12



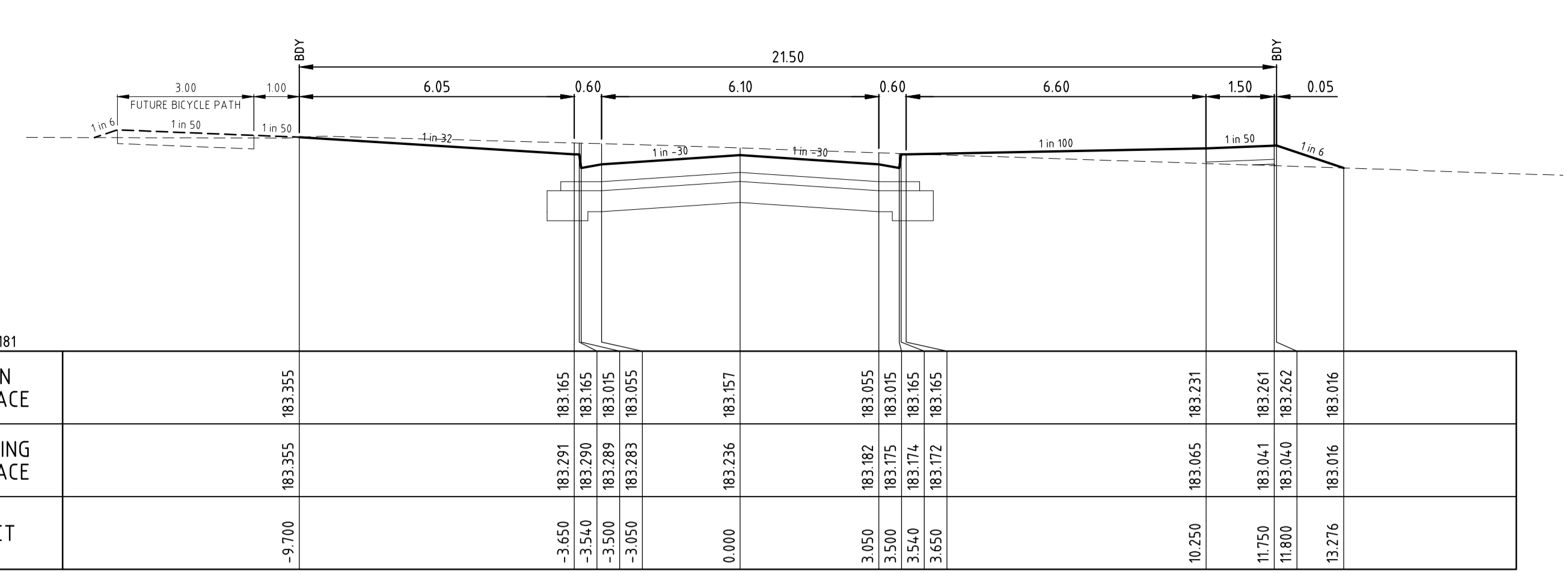
DATUM 181	
DESIGN SURFACE	182.705
EXISTING SURFACE	182.705
OFFSET	-9.700
	182.665
	182.508
	182.508
	182.508
	182.508
	182.516
	182.475
	182.435
	182.585
	182.516
	182.646
	182.653
	182.581

CHA 880.752



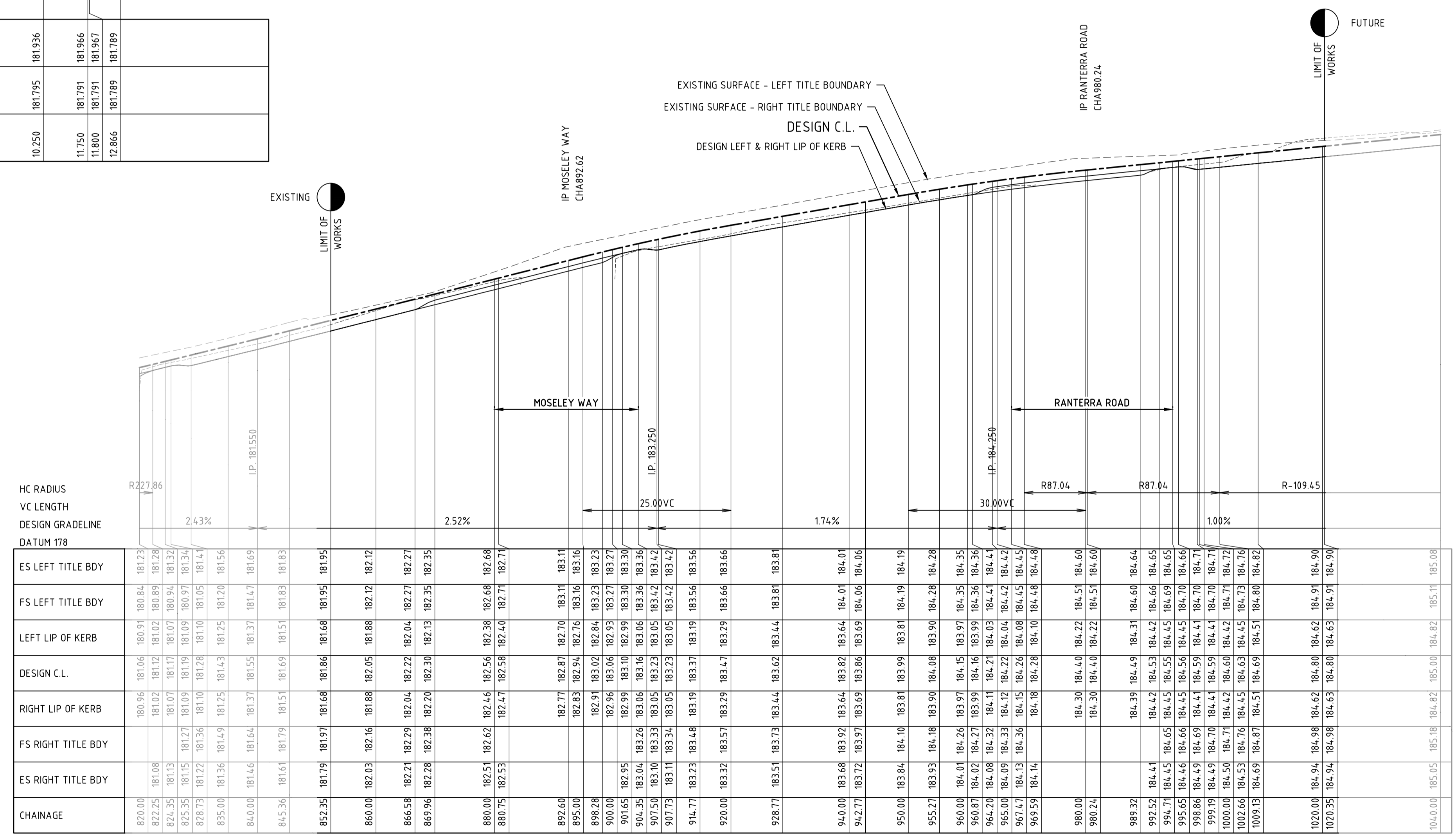
DATUM 180	
DESIGN SURFACE	181.953
EXISTING SURFACE	181.953
OFFSET	-9.700
	181.931
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	181.793
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	181.683
	181.683
	181.838
	181.643
	181.793
	181.793
	181.793
	181.936
	181.861
	181.895
	181.795
	181.795
	181.966
	181.967
	181.789
	181.789

CHA 852.351
CROSS SECTIONS (Rd10)
H 1:100 V 1:50



DATUM 181	
DESIGN SURFACE	183.355
EXISTING SURFACE	183.355
OFFSET	-9.700
	183.355
	183.165
	183.165
	183.165
	183.015
	183.055
	183.055
	183.157
	183.236
	183.157
	183.055
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	183.165
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	183.231
	183.065
	183.231
	183.261
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	183.016

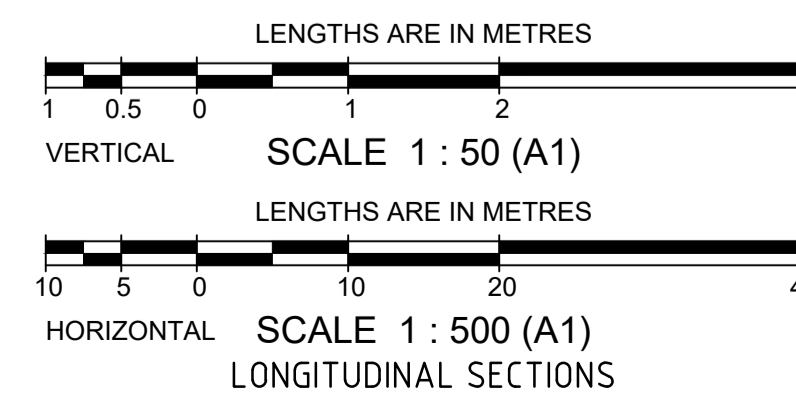
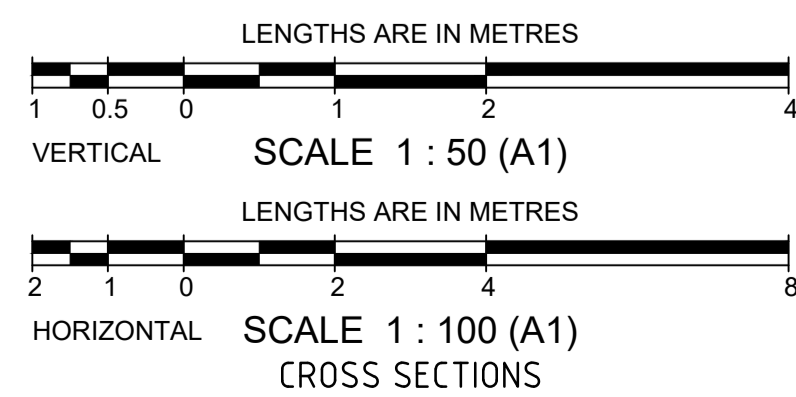
CHA 904.353



CHAINAGE	ES LEFT TITLE BDY	FS LEFT TITLE BDY	LEFT LIP OF KERB	DESIGN C.L.	RIGHT LIP OF KERB	FS RIGHT TITLE BDY	ES RIGHT TITLE BDY
820.00	180.96	181.06	180.91	180.84	181.23	181.23	181.23
822.25	181.08	181.02	181.12	181.02	180.89	181.28	181.28
824.35	181.13	181.07	181.17	181.07	180.94	181.37	181.37
825.35	181.15	181.27	181.09	181.19	180.97	181.34	181.34
828.73	181.22	181.36	181.10	181.28	181.10	181.05	181.14
835.00	181.36	181.49	181.25	181.43	181.25	181.20	181.56
840.00	181.46	181.64	181.37	181.55	181.37	181.47	181.69
845.36	181.61	181.79	181.51	181.69	181.51	181.63	181.83
852.35	181.79	181.97	181.68	181.86	181.68	181.95	181.95
860.00	182.03	182.16	181.88	182.05	181.88	182.12	182.12
866.58	182.21	182.29	182.04	182.22	182.04	182.27	182.27
869.96	182.28	182.38	182.20	182.30	182.13	182.35	182.35
880.00	182.51	182.62	182.46	182.56	182.38	182.68	182.68
880.75	182.53	182.47	182.58	182.40	182.71	182.71	182.71
892.60	182.77	182.87	182.70	182.70	183.11	183.11	183.11
895.00	182.83	182.94	182.76	182.76	183.16	183.16	183.16
898.28	182.91	183.02	182.84	183.23	183.23	183.23	183.23
900.00	182.96	183.06	182.93	183.27	183.27	183.27	183.27
904.35	183.04	183.26	183.06	183.06	183.36	183.36	183.36
907.50	183.30	183.33	183.05	183.23	183.42	183.42	183.42
907.73	183.11	183.34	183.23	183.05	183.42	183.42	183.42
914.71	183.23	183.48	183.19	183.37	183.19	183.56	183.56
920.00	183.32	183.57	183.47	183.29	183.66	183.66	183.66
928.77	183.51	183.73	183.44	183.62	183.44	183.81	183.81
940.00	183.68	183.92	183.64	183.92	183.64	184.01	184.01
942.77	183.72	183.97	183.69	183.86	183.69	184.06	184.06
950.00	183.84	184.10	183.81	184.19	184.19	184.19	184.19
955.27	183.93	184.18	183.90	184.08	183.90	184.28	184.28
960.00	184.01	184.26	183.97	184.15	183.97	184.35	184.35
960.81	184.02	184.27	183.99	184.16	183.99	184.36	184.36
964.20	184.08	184.32	184.11	184.21	184.03	184.41	184.41
965.00	184.09	184.33	184.12	184.22	184.04	184.42	184.42
967.47	184.13	184.36	184.15	184.26	184.08	184.45	184.45
969.59	184.14	184.18	184.28	184.10	184.48	184.48	184.48
980.00	184.30	184.40	184.22	184.51	184.60	184.60	184.60
980.24	184.30	184.40	184.22	184.51	184.60	184.60	184.60
989.30	184.39	184.49	184.31	184.60	184.64	184.64	184.64
992.52	184.41	184.42	184.53	184.42	184.66	184.65	184.65
994.71	184.45	184.65	184.45	184.55	184.69	184.65	184.65
995.65	184.46	184.66	184.45	184.56	184.70	184.66	184.66
998.86	184.49	184.69	184.44	184.59	184.41	184.70	184.71
999.19	184.49	184.70	184.41	184.59	184.41	184.71	184.71
1000.00	184.50	184.71	184.42	184.60	184.42	184.72	184.72
1002.66	184.53	184.76	184.45	184.63	184.45	184.76	184.76
1003.13	184.69	184.87	184.51	184.69	184.51	184.80	184.82
1020.00	184.94	184.98	184.62	184.80	184.62	184.91	184.90
1020.35	184.94	184.98	184.63	184.80	184.63	184.91	184.90
1040.00	185.05	185.18	184.82	185.00	184.82	185.11	185.08

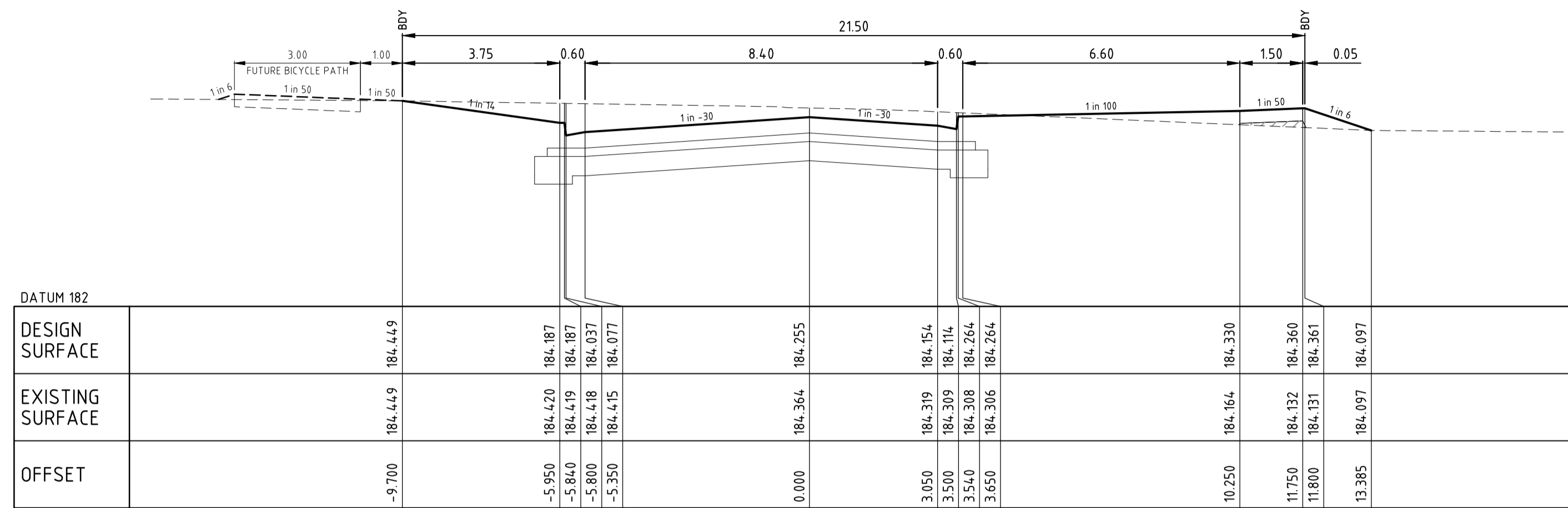
LONGITUDINAL SECTION (Rd10)
H 1:500 V 1:50

EQUESTRIA BOULEVARD

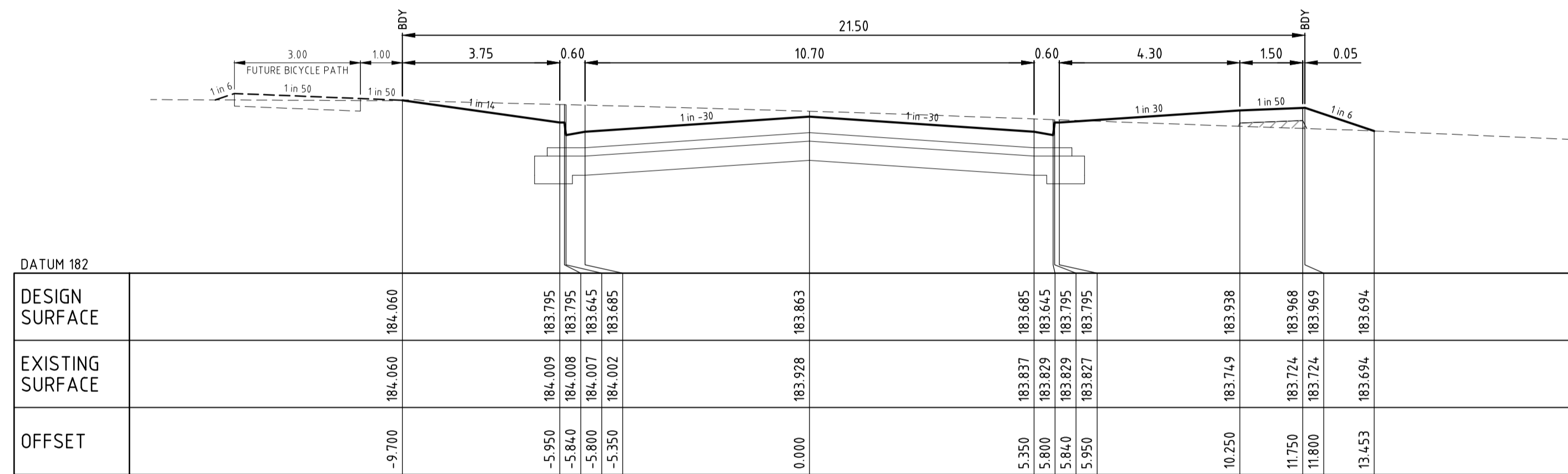


TYPE A STRUCTURAL MATERIAL
(REFER NOTE 29 SHEET 2) PLACED
AT 45° ANGLE OF REPOSE

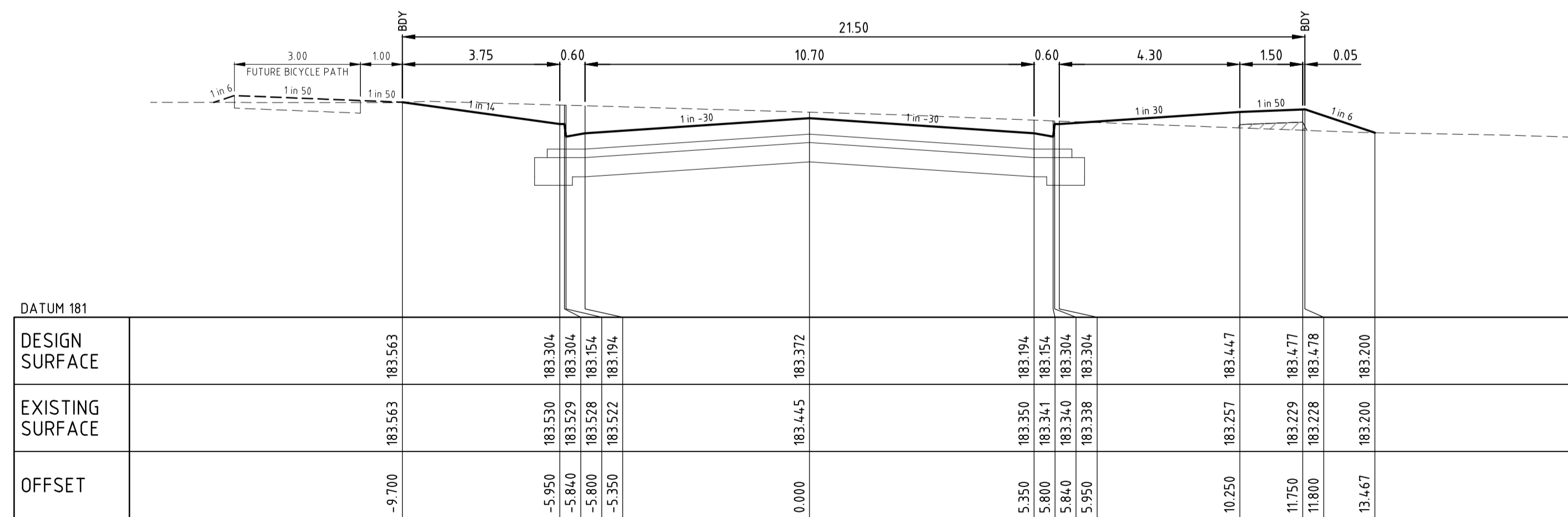
breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cafo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
MELWAY REF. 389-B-11 SURVEY BPD DESIGN DG DRAWN DG CHECKED <i>[Signature]</i>		ELLERY ESTATE STAGE 7 EQUESTRIA BOULEVARD MUNICIPALITY WHITTLESEA REFERENCE 8625 E/07
AMENDMENTS B 5/10/21 ESTATE NAME REVISED A 17/12/19 ISSUED FOR CONSTRUCTION	DATE 5/10/21 17/12/19	REMARKS ESTATE NAME REVISED ISSUED FOR CONSTRUCTION
SCALE As Shown DATUM AHD DATE Nov'19	SHEET 4 OF 12	B



CHA 967.467



CHA 942.770

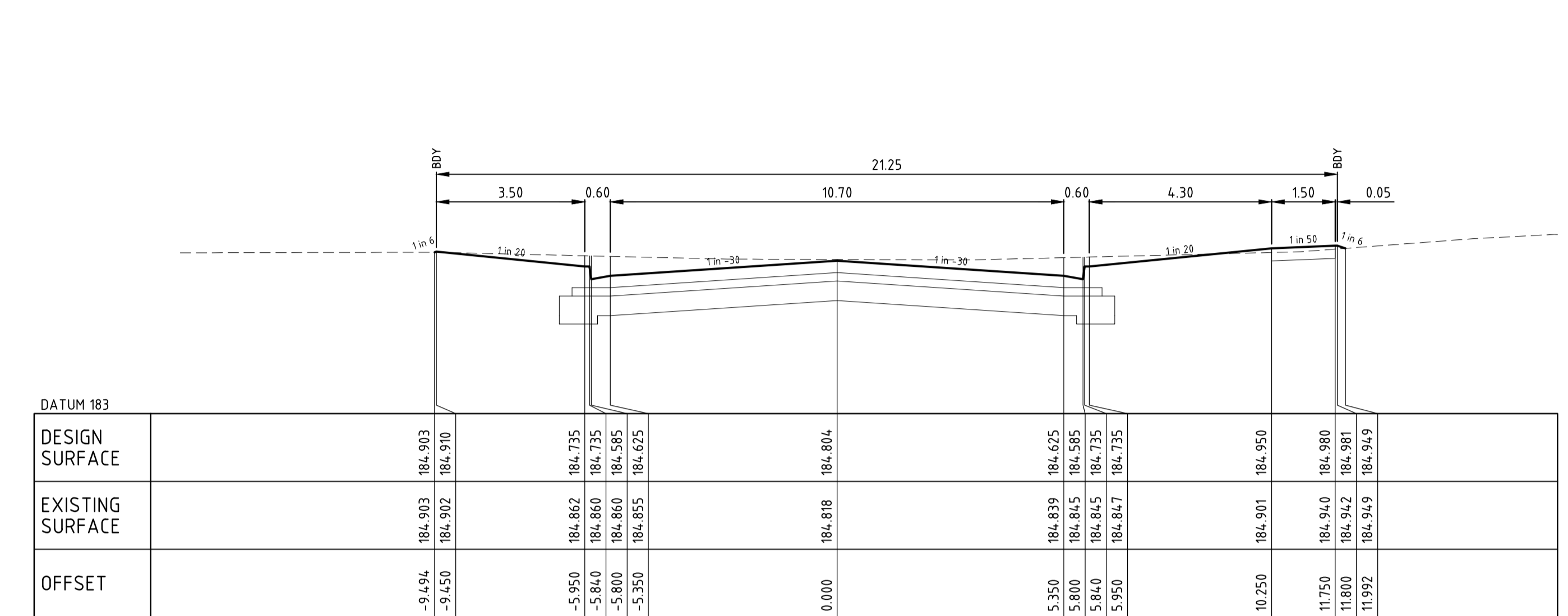


CHA 914.770

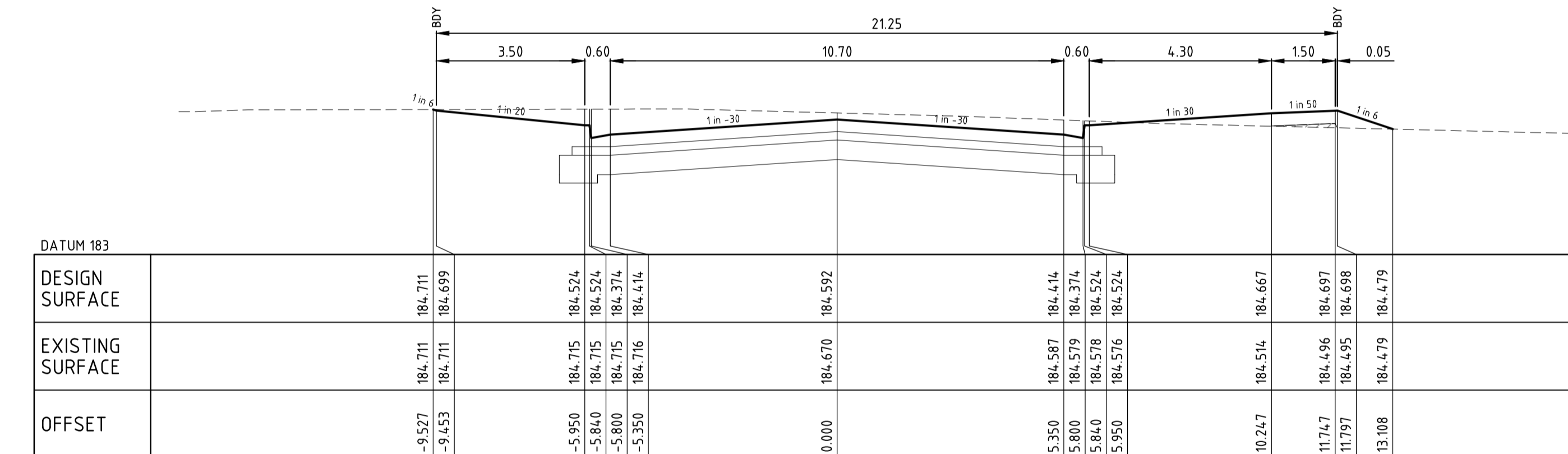
CROSS SECTIONS (Rd10)

H:1:100 V:1:50

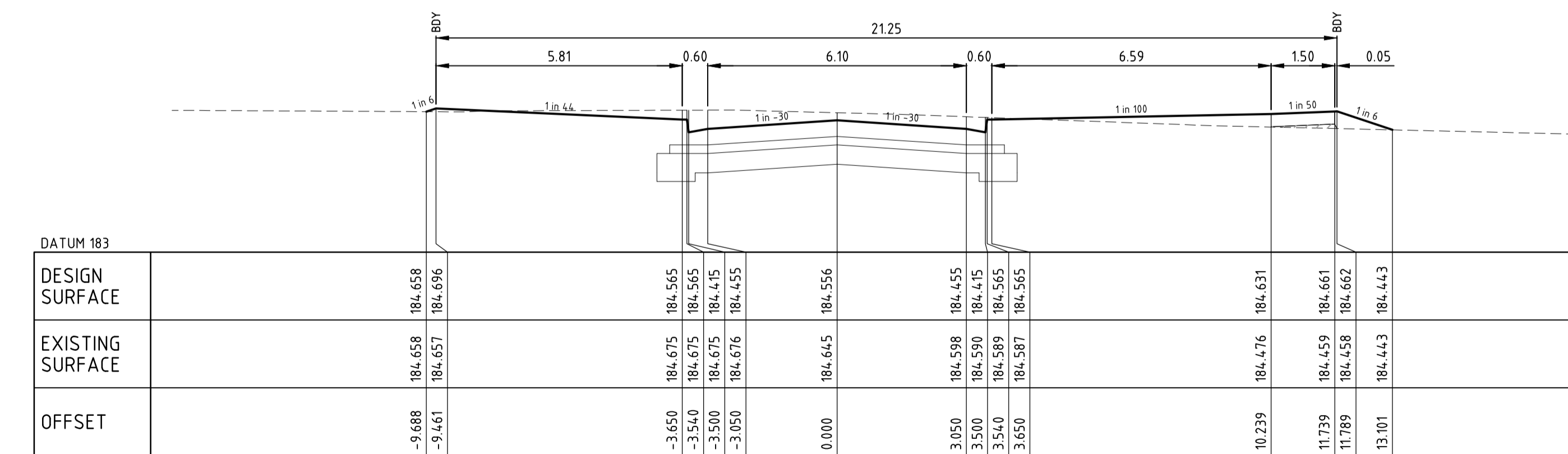
EQUESTRIA BOULEVARD



CHA 1020.350



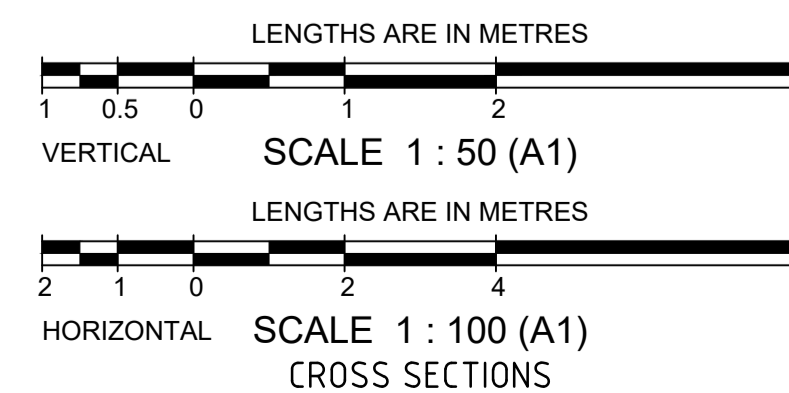
CHA 999.185



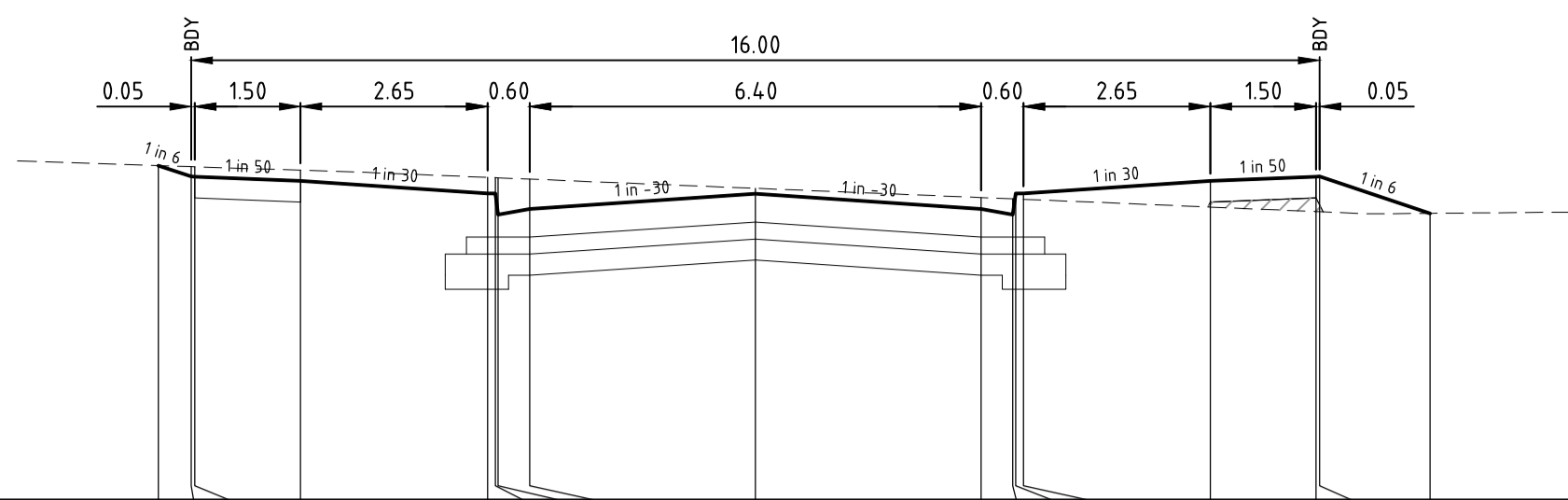
CHA 995.649



TYPE A STRUCTURAL MATERIAL
(REFER NOTE 29 SHEET 2) PLACED
AT 45° ANGLE OF REPOSE

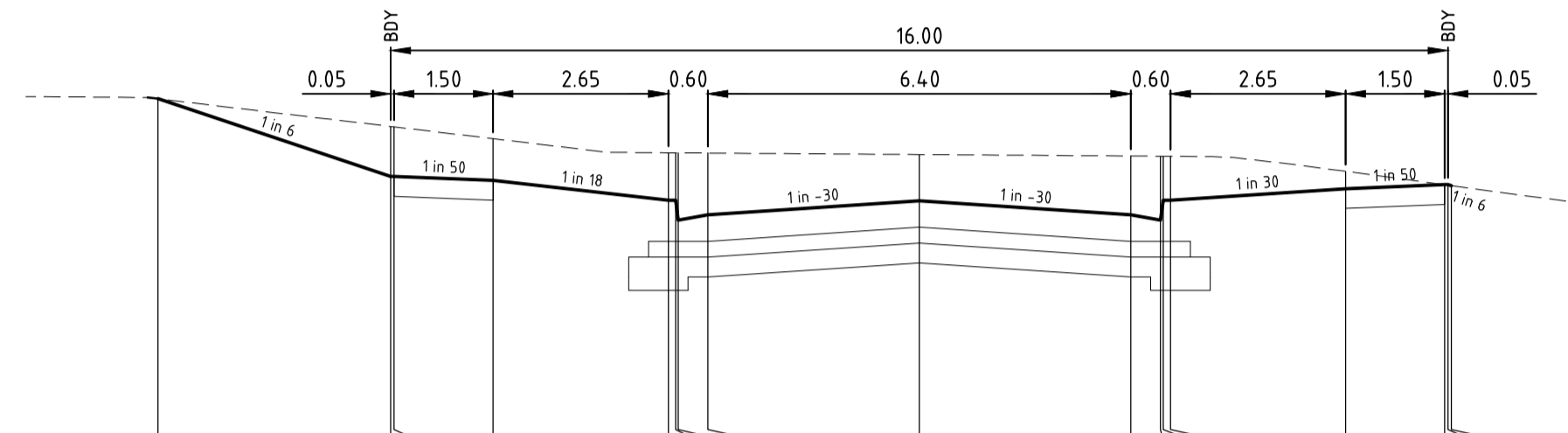


breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cafo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 389-B-11 SURVEY BPD DESIGN DG DRAWN DG CHECKED <i>[Signature]</i>		ELLERY ESTATE STAGE 7 EQUESTRIA BOULEVARD	
AMENDMENTS B 5/10/21 ESTATE NAME REVISED A 17/12/19 ISSUED FOR CONSTRUCTION		MUNICIPALITY WHITTLESEA REFERENCE 8625 E/07	
VER.	DATE	REMARKS	CHECKED
SCALE As Shown		DATUM AHD	DATE Nov'19
SHEET 5 OF 12		B	



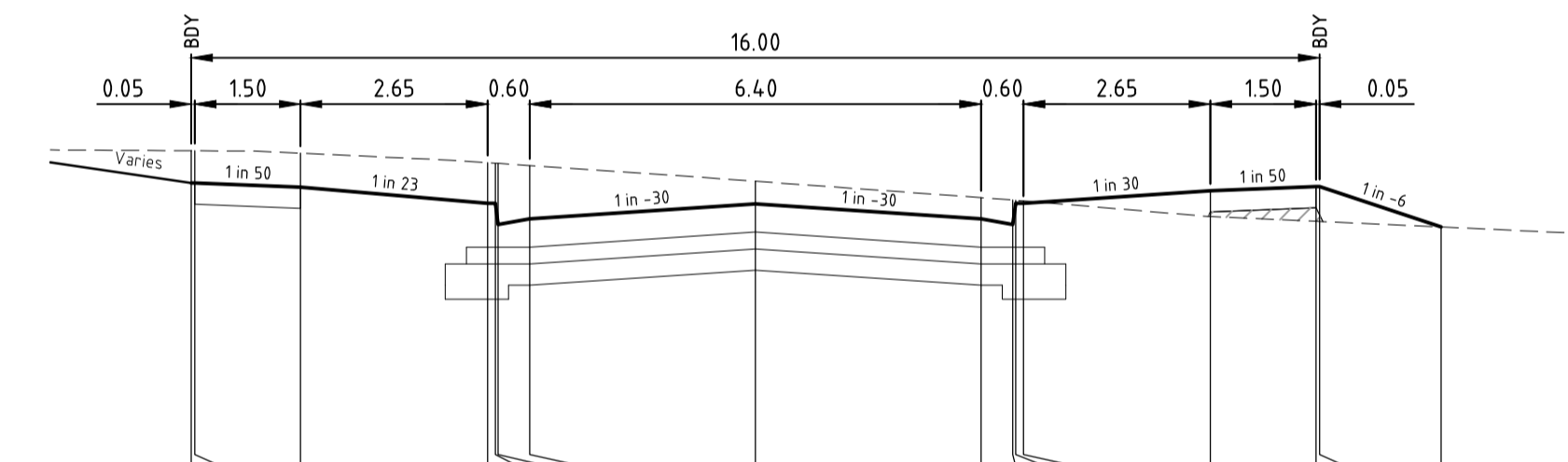
DESIGN SURFACE	EXISTING SURFACE	OFFSET
181.370	181.370	-8.467
181.370	181.362	-8.000
181.370	181.361	-7.950
181.370	181.356	-6.450
181.172	181.286	-3.800
181.172	181.283	-3.690
181.172	181.283	-3.650
181.062	181.283	-3.200
181.169	181.208	0.000
181.062	181.143	3.200
181.022	181.134	3.650
181.172	181.133	3.690
181.172	181.130	3.800
181.261	181.075	6.450
181.291	181.043	7.950
181.292	181.042	8.000
181.031	181.031	9.565

CHA 222.700



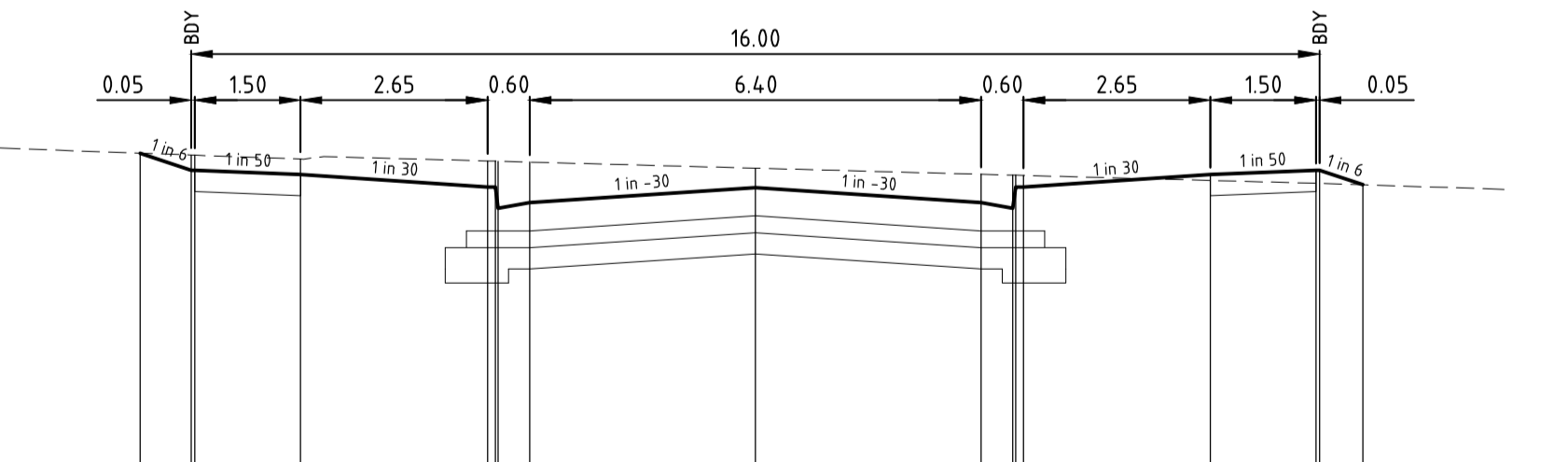
DESIGN SURFACE	EXISTING SURFACE	OFFSET
182.600	182.600	-11.522
182.013	182.390	-8.000
182.012	182.387	-7.950
181.982	182.298	-6.450
181.832	182.191	-3.800
181.832	182.191	-3.690
181.682	182.191	-3.650
181.722	182.189	-3.200
181.829	182.178	0.000
181.722	182.167	3.200
181.832	182.166	3.650
181.832	182.165	3.690
181.920	182.051	6.450
181.950	181.950	7.950
181.943	181.946	8.000
181.943	181.943	8.052

CHA 199.280



DESIGN SURFACE	EXISTING SURFACE	OFFSET
182.024	182.252	-8.000
182.023	182.252	-7.950
181.993	182.234	-6.450
181.879	182.167	-3.800
181.879	182.163	-3.690
181.729	182.162	-3.650
181.769	182.147	-3.200
181.876	182.035	0.000
181.769	181.919	3.200
181.729	181.903	3.650
181.879	181.901	3.690
181.879	181.896	3.800
181.967	181.785	6.450
181.997	181.751	7.950
181.998	181.750	8.000
181.711	181.711	9.724

CHA 185.906



DESIGN SURFACE	EXISTING SURFACE	OFFSET
181.414	181.414	-8.725
181.293	181.401	-8.000
181.292	181.400	-7.950
181.262	181.372	-6.450
181.174	181.359	-3.800
181.174	181.357	-3.690
181.024	181.357	-3.650
181.064	181.351	-3.200
181.170	181.308	0.000
181.064	181.265	3.200
181.024	181.258	3.650
181.174	181.256	3.800
181.262	181.221	6.450
181.292	181.201	7.950
181.293	181.200	8.000
181.191	181.191	8.614

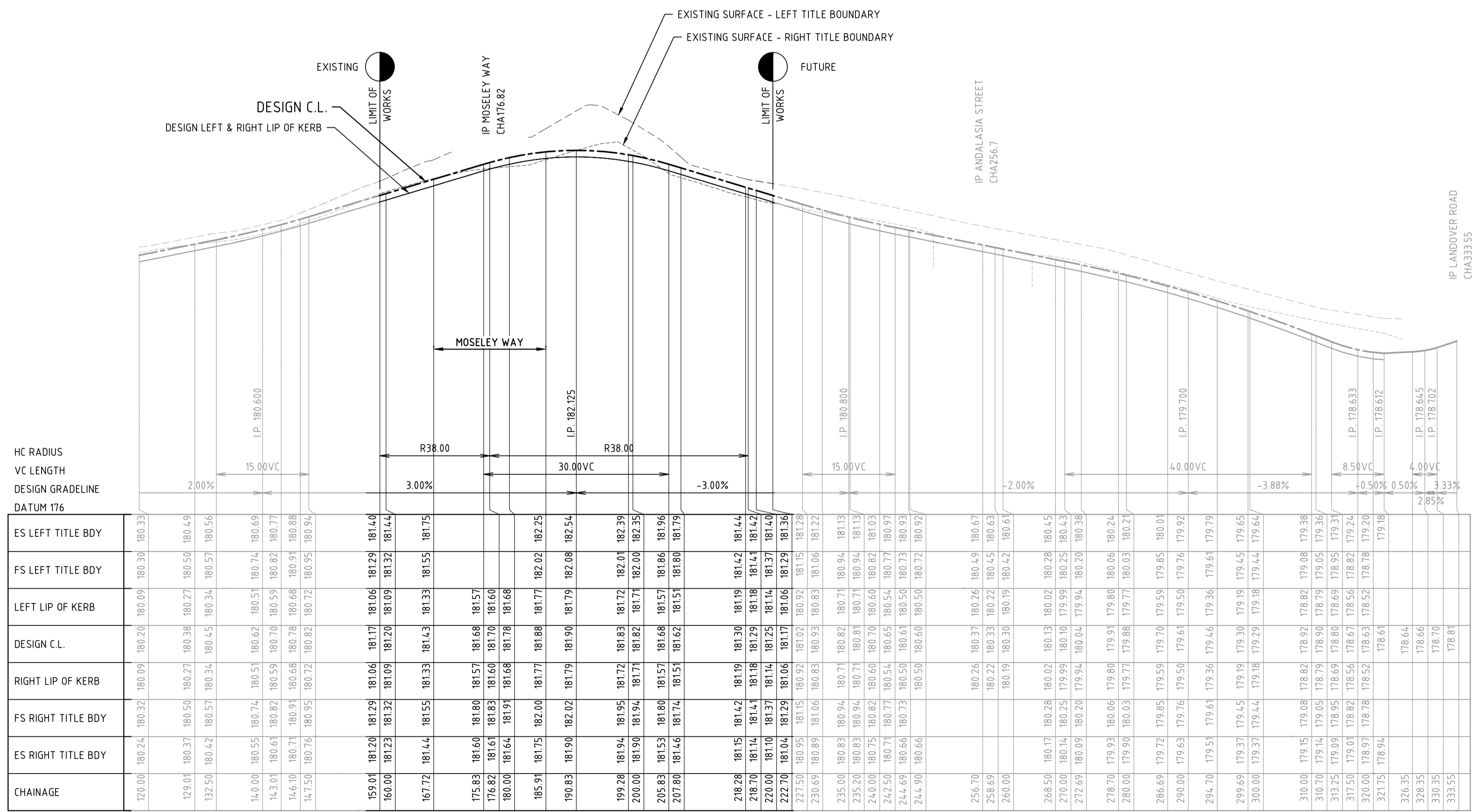
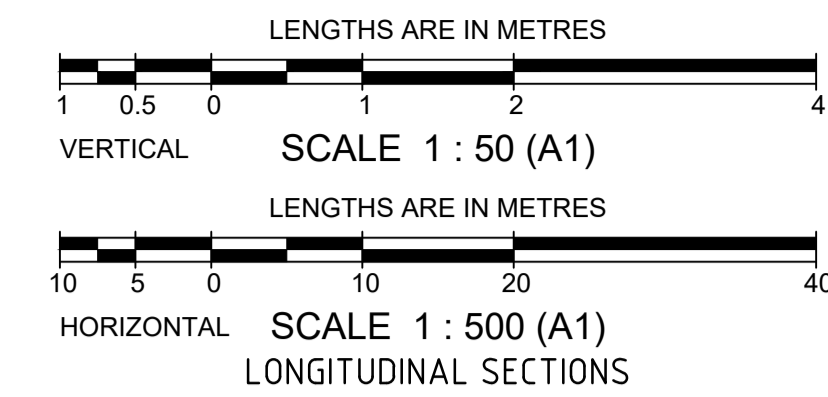
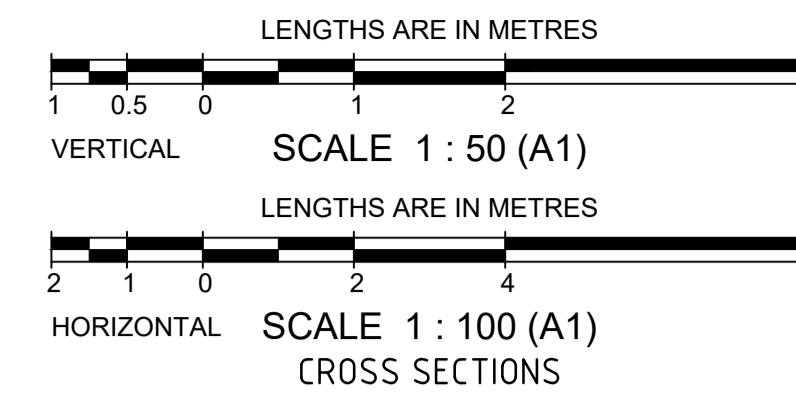
CHA 159.010

CROSS SECTIONS (Rd14)

H 1:100 V 1:50



TYPE A STRUCTURAL MATERIAL (REFER NOTE 29 SHEET 2) PLACED AT 45° ANGLE OF REPOSE



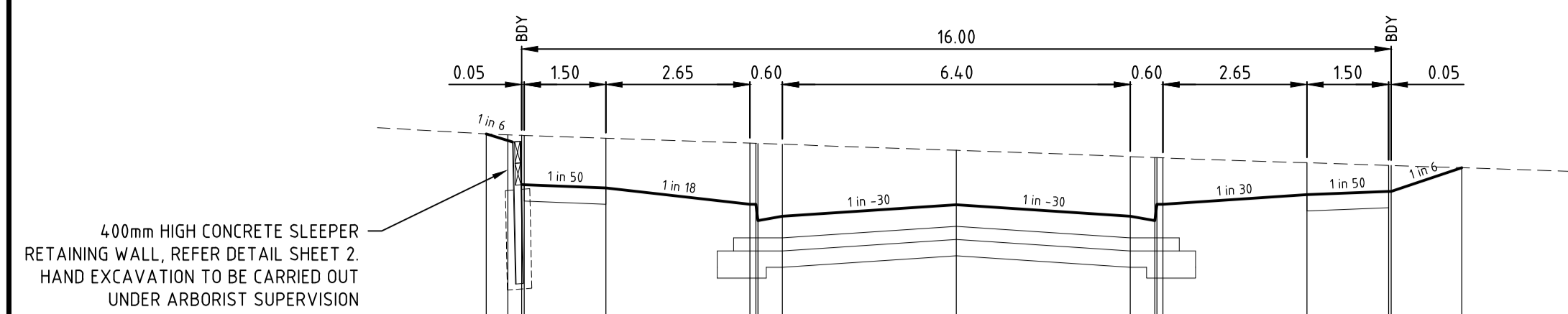
LONGITUDINAL SECTION (Rd14)

H 1:500 V 1:50

PANAMA STREET

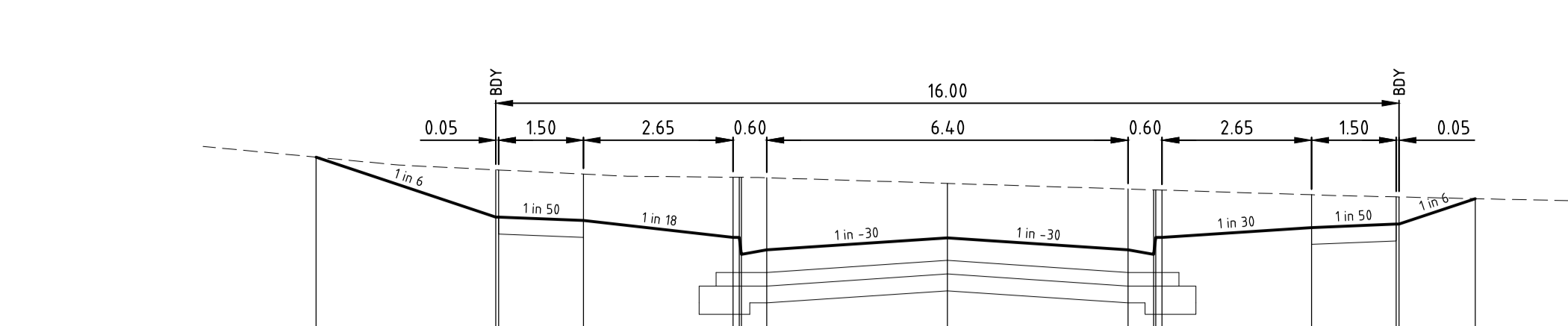
AMENDMENTS	DATE	REMARKS
B	5/10/21	ESTATE NAME REVISED
A	17/12/19	ISSUED FOR CONSTRUCTION

	MELWAY REF. 389-B-11 SURVEY BPD DESIGN DG DRAWN DG CHECKED <i>[Signature]</i>	breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 cafo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	MUNICIPALITY WHITTLESEA REFERENCE 8625 E/07
	ELLERY ESTATE STAGE 7 PANAMA STREET		SCALE As Shown DATUM AHD DATE Nov'19 SHEET 6 OF 12 B



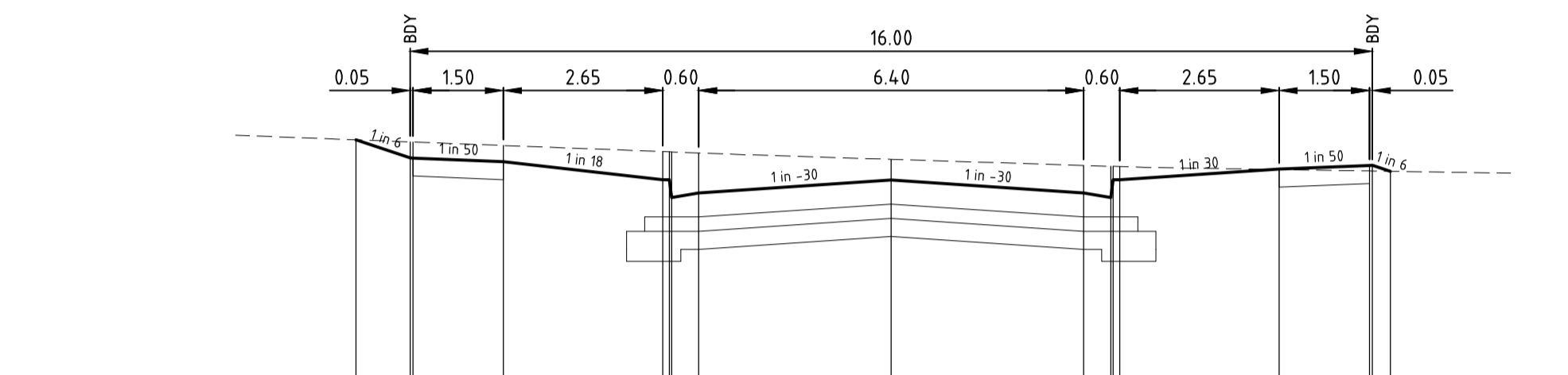
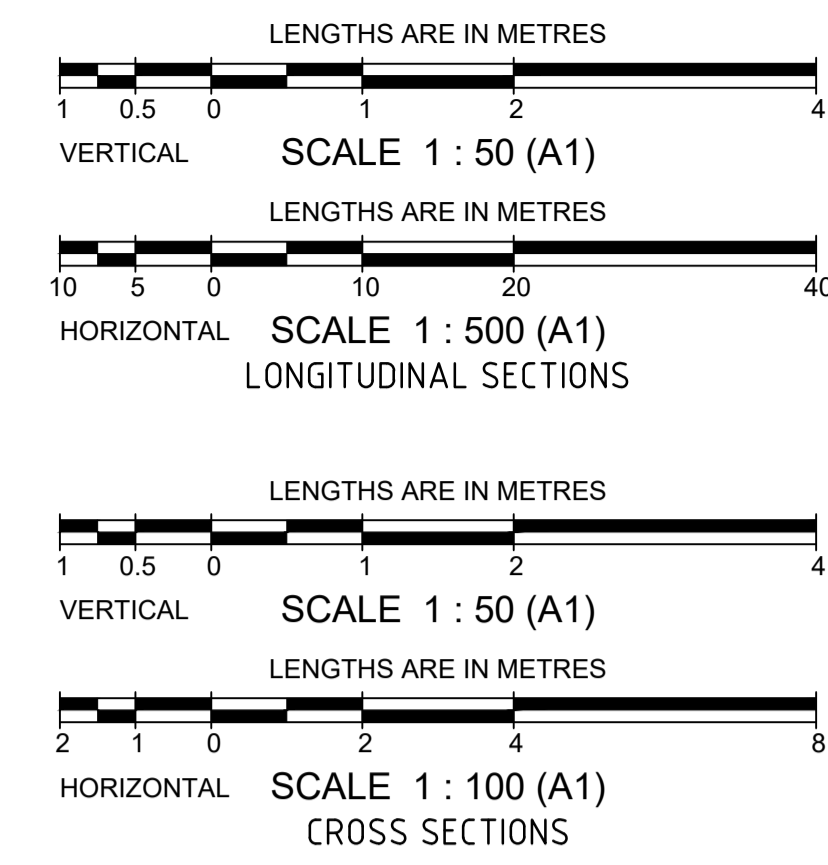
DATUM 180																				
DESIGN SURFACE		182.390	182.390	182.374	181.924	181.923	181.893		181.743	181.743	181.633	181.633	181.739	181.739	181.831	181.861	181.861	181.862	182.079	182.079
EXISTING SURFACE		182.390	182.381	182.377	182.376	182.350	181.893		182.305	182.303	181.743	181.633	181.739	181.739	181.831	181.861	181.861	181.862	182.079	182.079
OFFSET		-8.550	-8.550	-8.000	-7.950	-6.450			-3.800	-3.690	-3.200	0.000	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

CHA 65.000



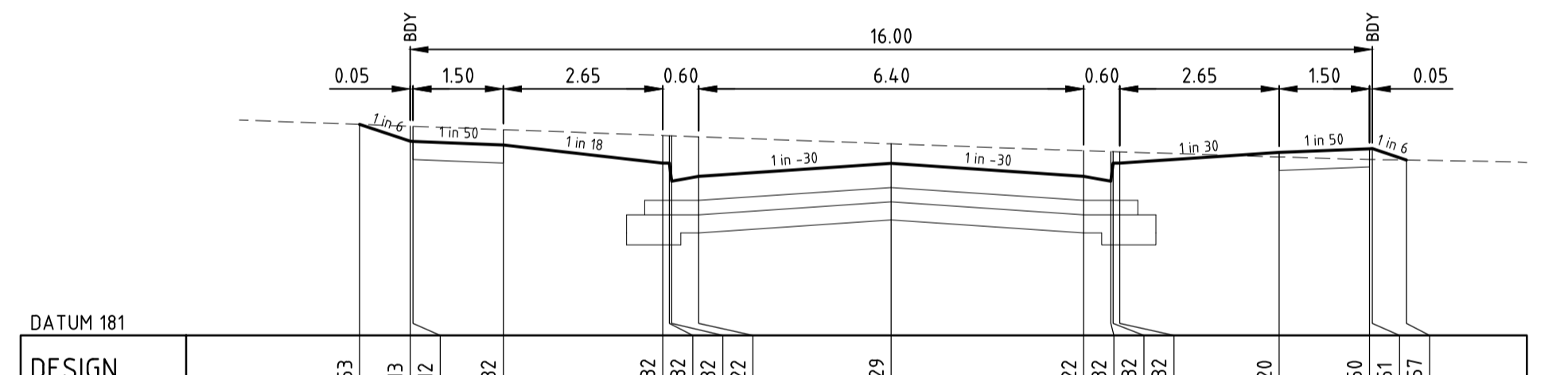
DATUM 180																				
DESIGN SURFACE		182.231	182.231	181.700	181.699	181.669	181.519	181.519	181.409	181.515	181.409	181.519	181.607	181.607	181.637	181.637	181.638	181.863	181.863	182.079
EXISTING SURFACE		182.231	182.231	181.700	181.699	181.669	181.519	181.519	181.409	181.515	181.409	181.519	181.607	181.607	181.637	181.637	181.638	181.863	181.863	182.079
OFFSET		-11.187	-11.187	-8.000	-7.950	-6.450	-3.800	-3.690	-3.200	0.000	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	9.349	9.349

CHA 76.041



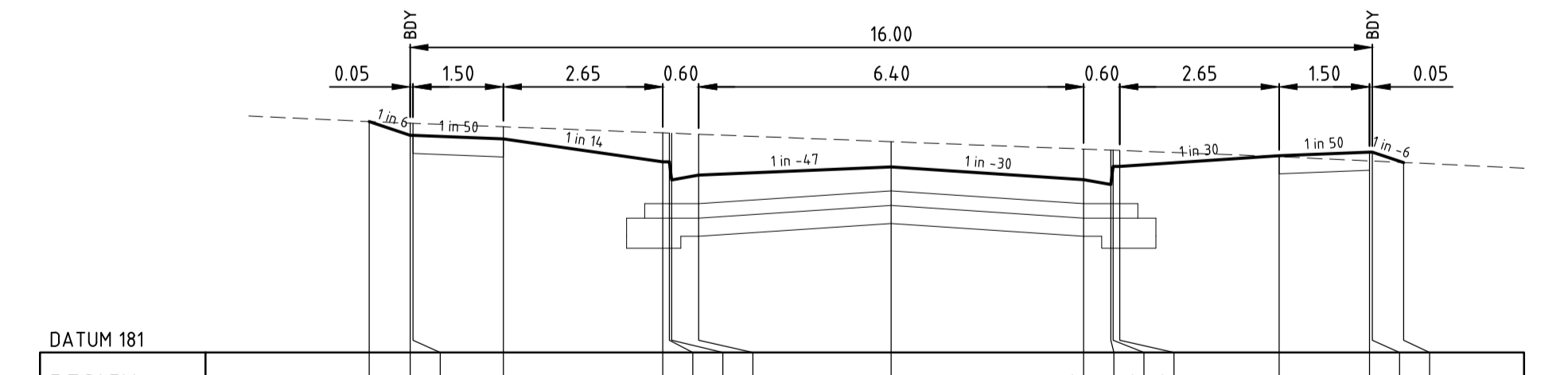
DATUM 180																				
DESIGN SURFACE		182.568	182.568	182.418	182.417	182.387	182.237	182.237	182.127	182.233	182.127	182.237	182.325	182.325	182.355	182.355	182.356	182.306	182.306	182.457
EXISTING SURFACE		182.568	182.568	182.550	182.417	182.387	182.237	182.237	182.127	182.233	182.127	182.237	182.325	182.325	182.355	182.355	182.356	182.306	182.306	182.457
OFFSET		-8.901	-8.901	-8.000	-7.950	-6.450	-3.800	-3.690	-3.200	0.000	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	8.299	8.299

CHA 42.470



DATUM 181																				
DESIGN SURFACE		182.753	182.753	182.613	182.612	182.582	182.432	182.432	182.322	182.429	182.322	182.432	182.520	182.520	182.550	182.550	182.551	182.457	182.457	182.607
EXISTING SURFACE		182.753	182.753	182.738	182.612	182.582	182.432	182.432	182.322	182.429	182.322	182.432	182.520	182.520	182.550	182.550	182.551	182.457	182.457	182.607
OFFSET		-8.839	-8.839	-8.000	-7.950	-6.450	-3.800	-3.690	-3.200	0.000	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	8.568	8.568

CHA 26.470

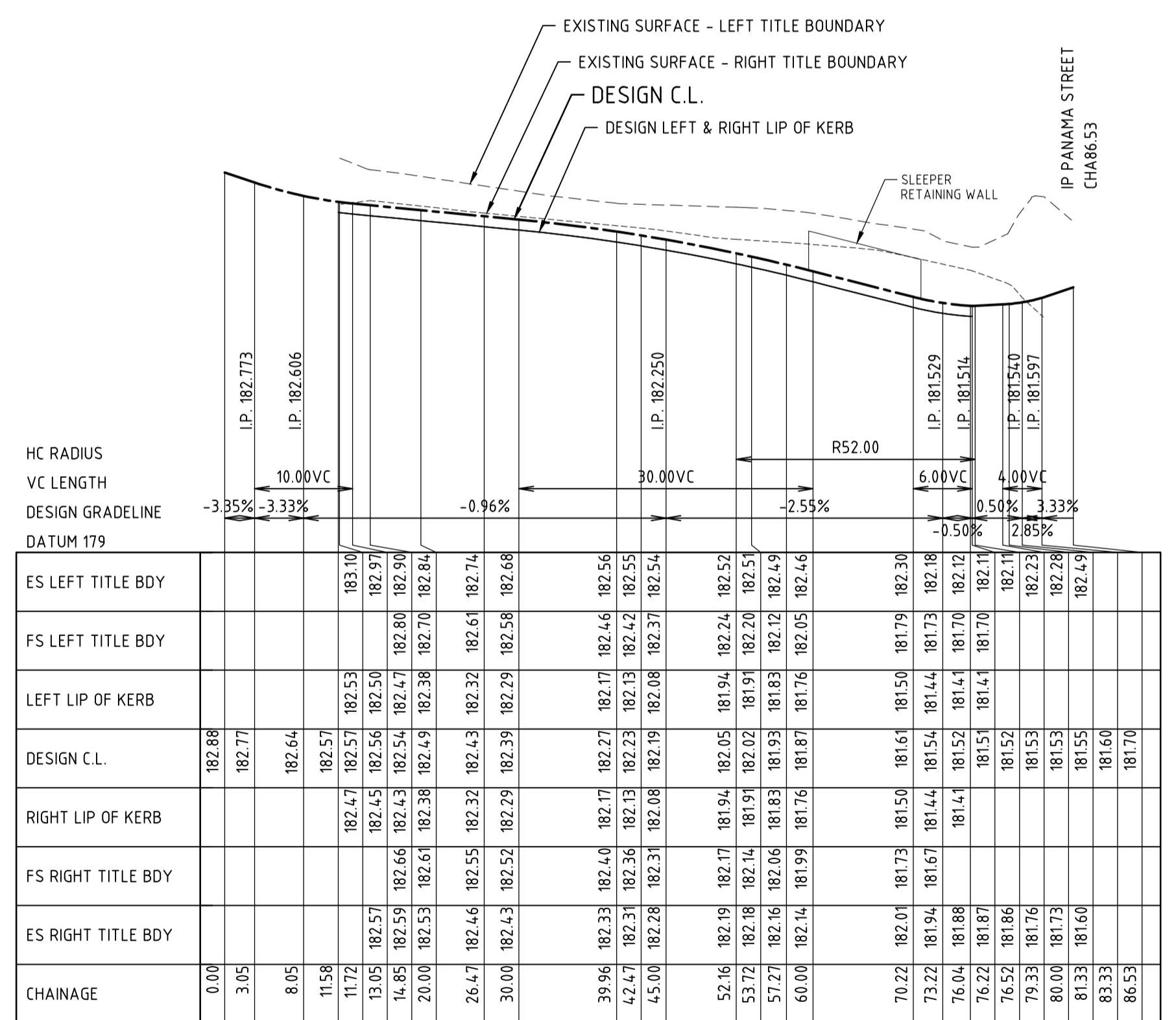


DATUM 181																				
DESIGN SURFACE		182.916	182.916	182.803	182.802	182.772	182.583	182.583	182.473	182.541	182.473	182.544	182.633	182.633	182.663	182.663	182.664	182.577	182.577	182.727
EXISTING SURFACE		182.916	182.916	182.803	182.802	182.772	182.583	182.583	182.473	182.541	182.473	182.544	182.633	182.633	182.663	182.663	182.664	182.577	182.577	182.727
OFFSET		-8.681	-8.681	-8.000	-7.950	-6.450	-3.800	-3.690	-3.200	0.000	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	8.519	8.519

CHA 14.846

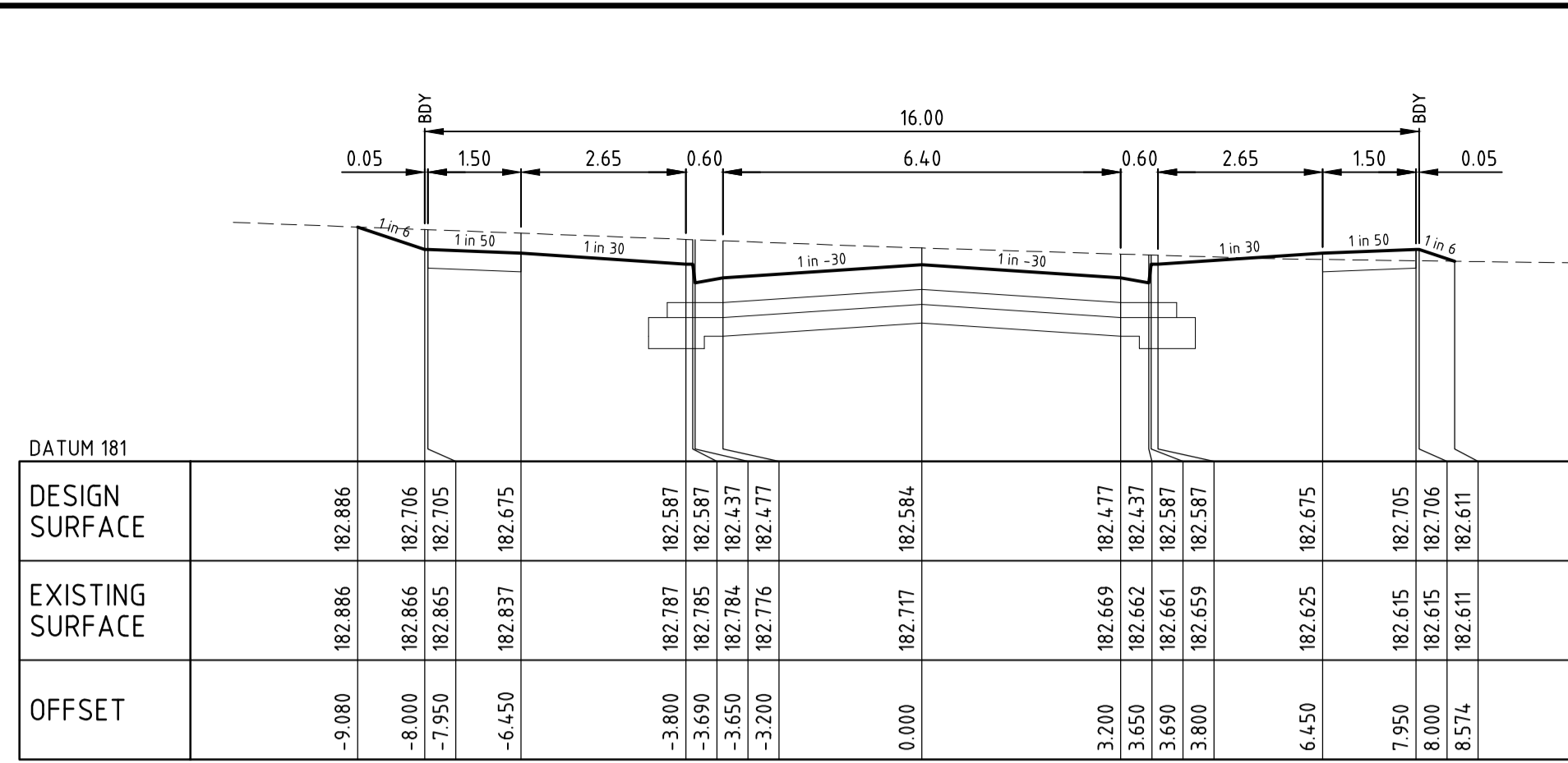
CROSS SECTIONS (Rd16)
H 1:100 V 1:50

TYPE A STRUCTURAL MATERIAL (REFER NOTE 29 SHEET 2) PLACED AT 45° ANGLE OF REPOSE

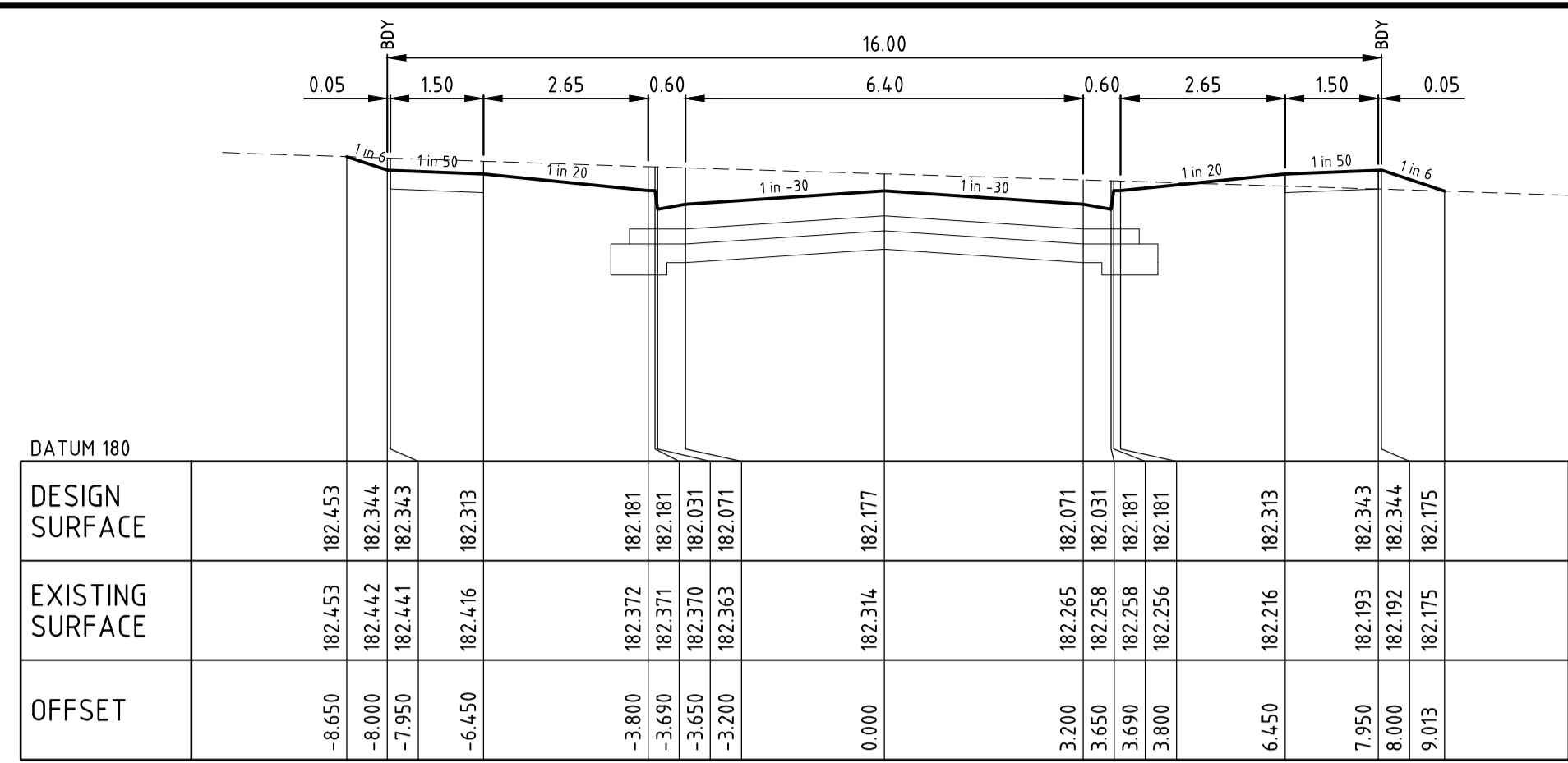


LONGITUDINAL SECTION (Rd16)
H 1:500 V 1:50
MOSELEY WAY

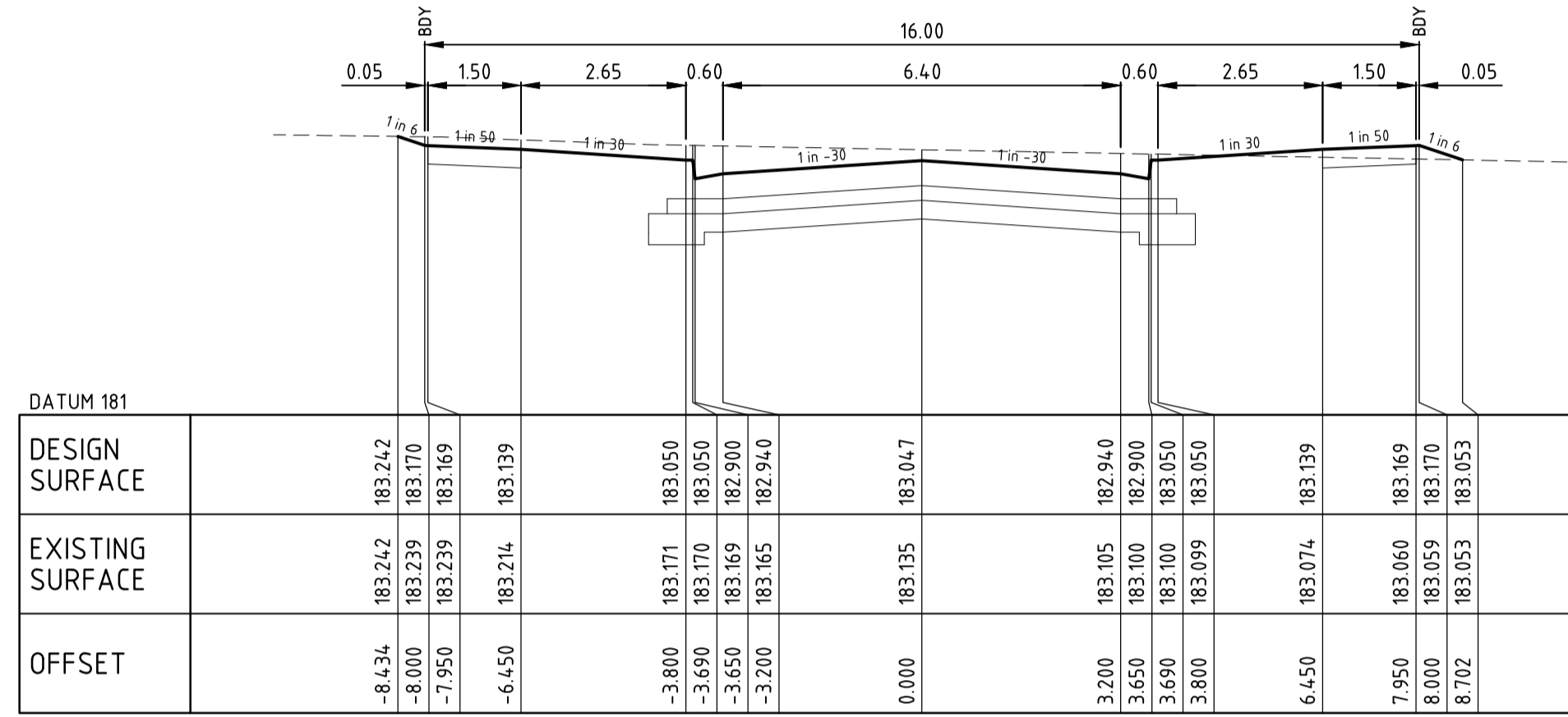
AMENDMENTS		MELWAY REF. 389-B-11		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cafo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
B	5/10/21	ESTATE NAME REVISED		ELLERY ESTATE STAGE 7		MUNICIPALITY WHITTLESEA	
A	17/12/19	ISSUED FOR CONSTRUCTION		MOSELEY WAY		REFERENCE 8625 E/07	
VER	DATE	REMARKS	CHECKED	SCALE	DATUM	DATE	SHEET
				As Shown	AHD	Nov'19	7 OF 12



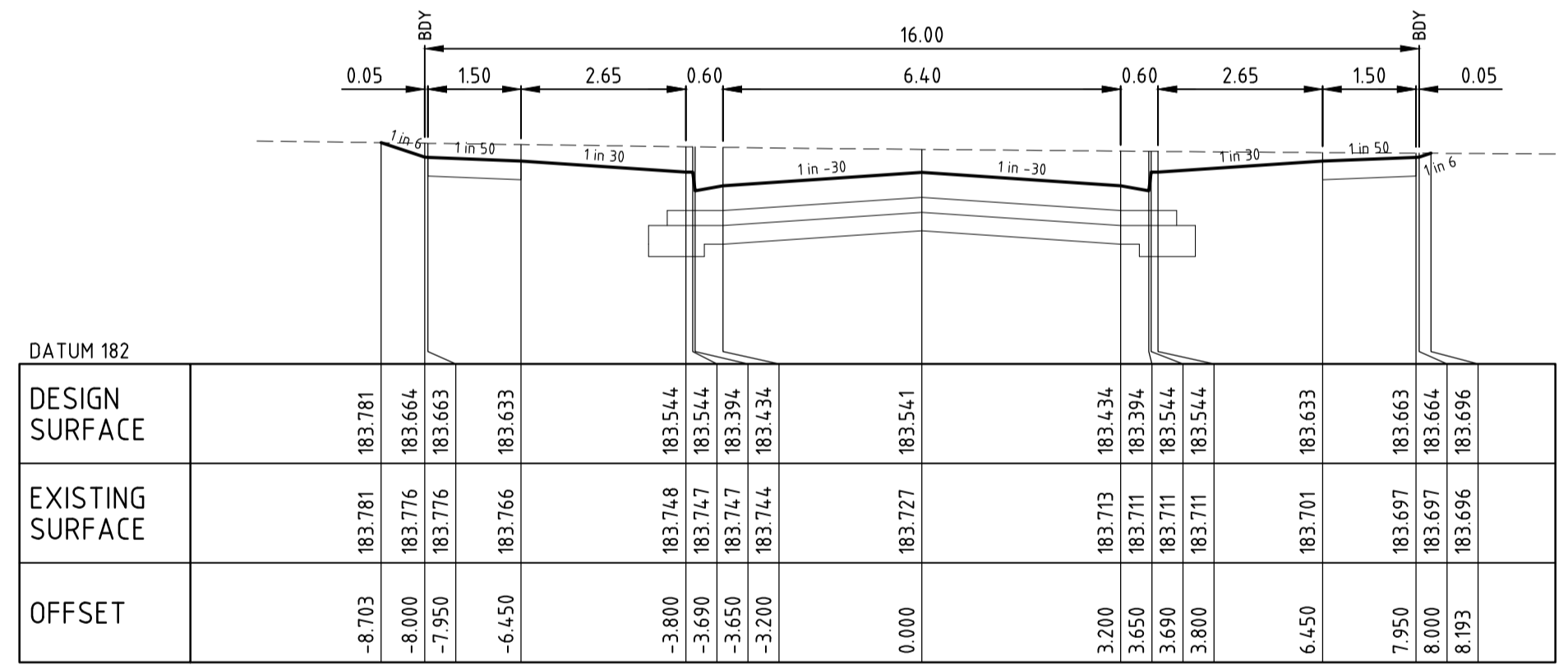
CHA 94.850



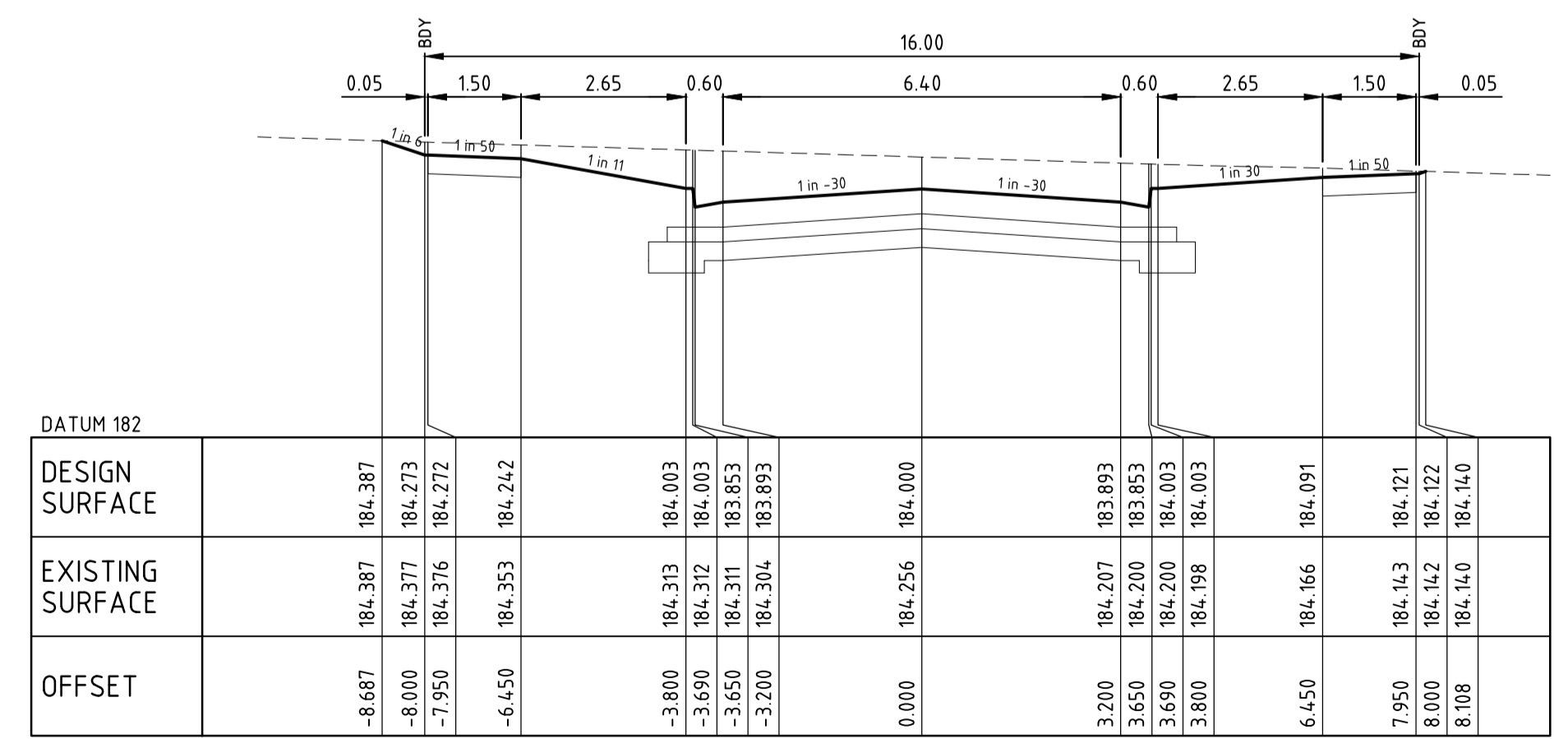
CHA 119.850



CHA 66.350

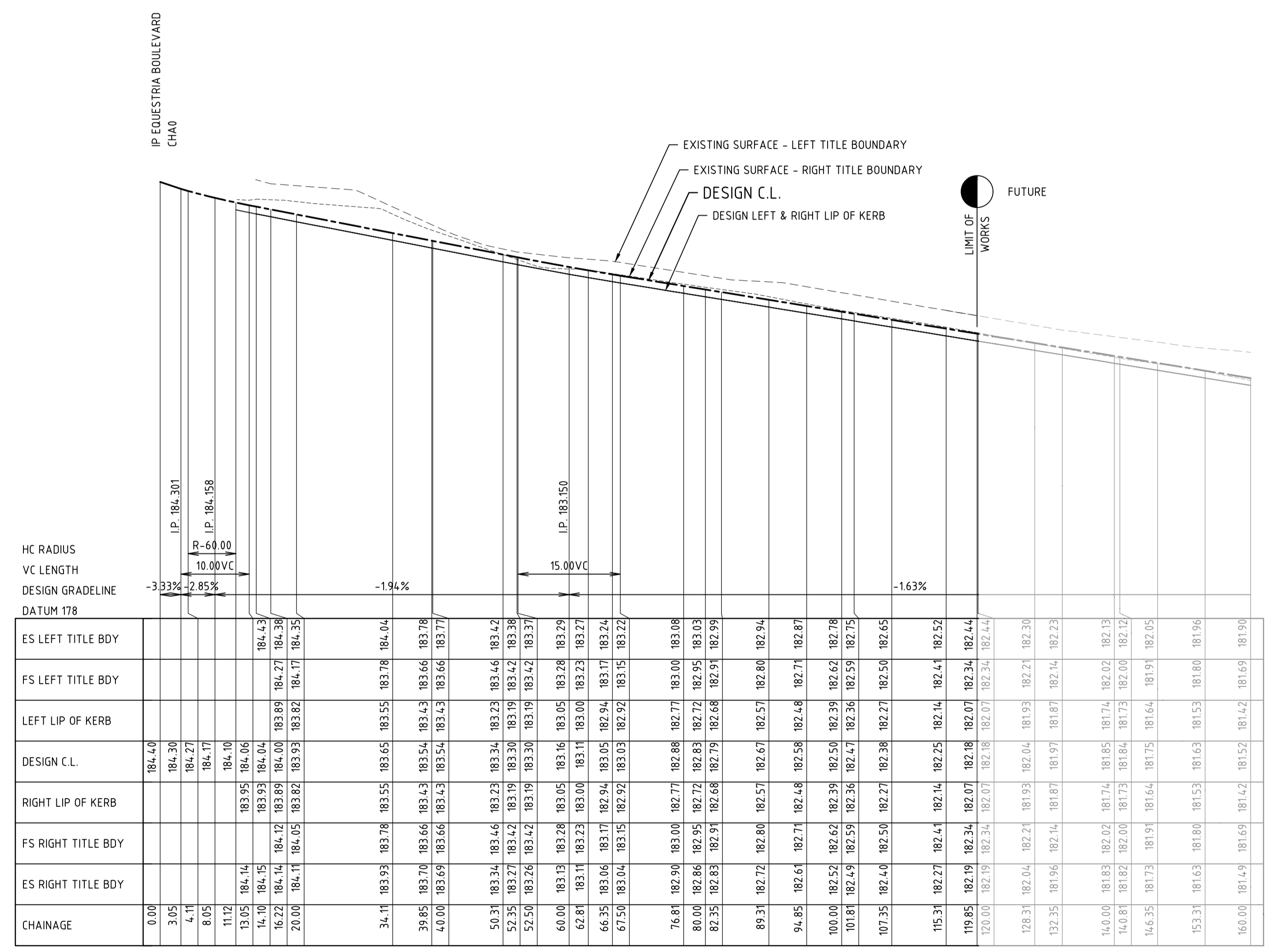
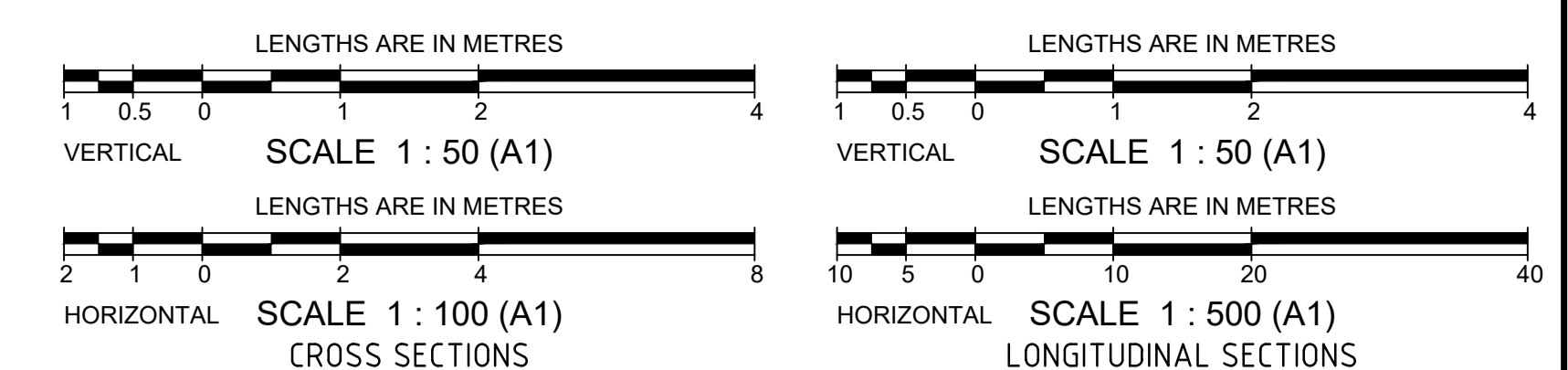


CHA 39.850



CHA 16.220

CROSS SECTIONS (Rd20)
H 1:100 V 1:50



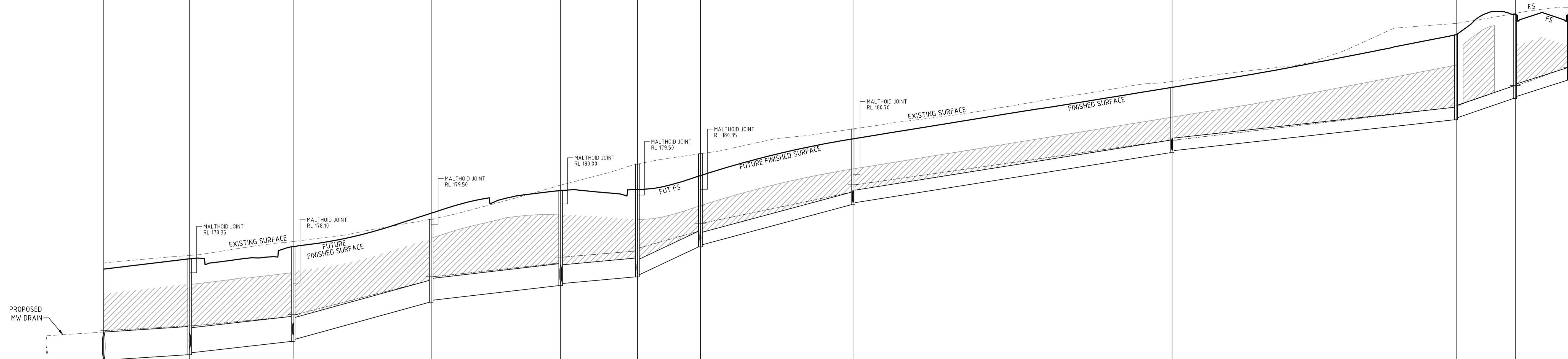
LONGITUDINAL SECTION (Rd20)
H 1:500 V 1:50

RANTERRA ROAD

TYPE A STRUCTURAL MATERIAL
(REFER NOTE 29 SHEET 2) PLACED
AT 45° ANGLE OF REPOSE

breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cafo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
MELWAY REF. 389-B-11 SURVEY BPD DESIGN DG DRAWN DG CHECKED <i>[Signature]</i>		ELLERY ESTATE STAGE 7 RANTERRA ROAD MUNICIPALITY WHITTLESEA REFERENCE 8625 E/07
AMENDMENTS B 5/10/21 ESTATE NAME REVISED A 17/12/19 ISSUED FOR CONSTRUCTION	SCALE As Shown DATUM AHD DATE Nov'19	SHEET 8 OF 12 B

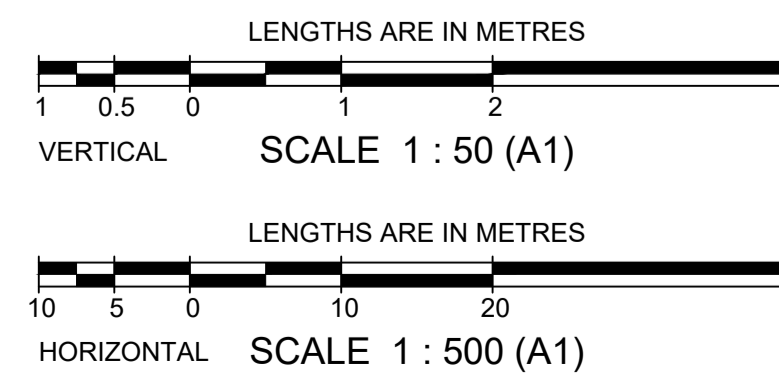
10 55 56 57 58 59 60 61 62 63 64 65



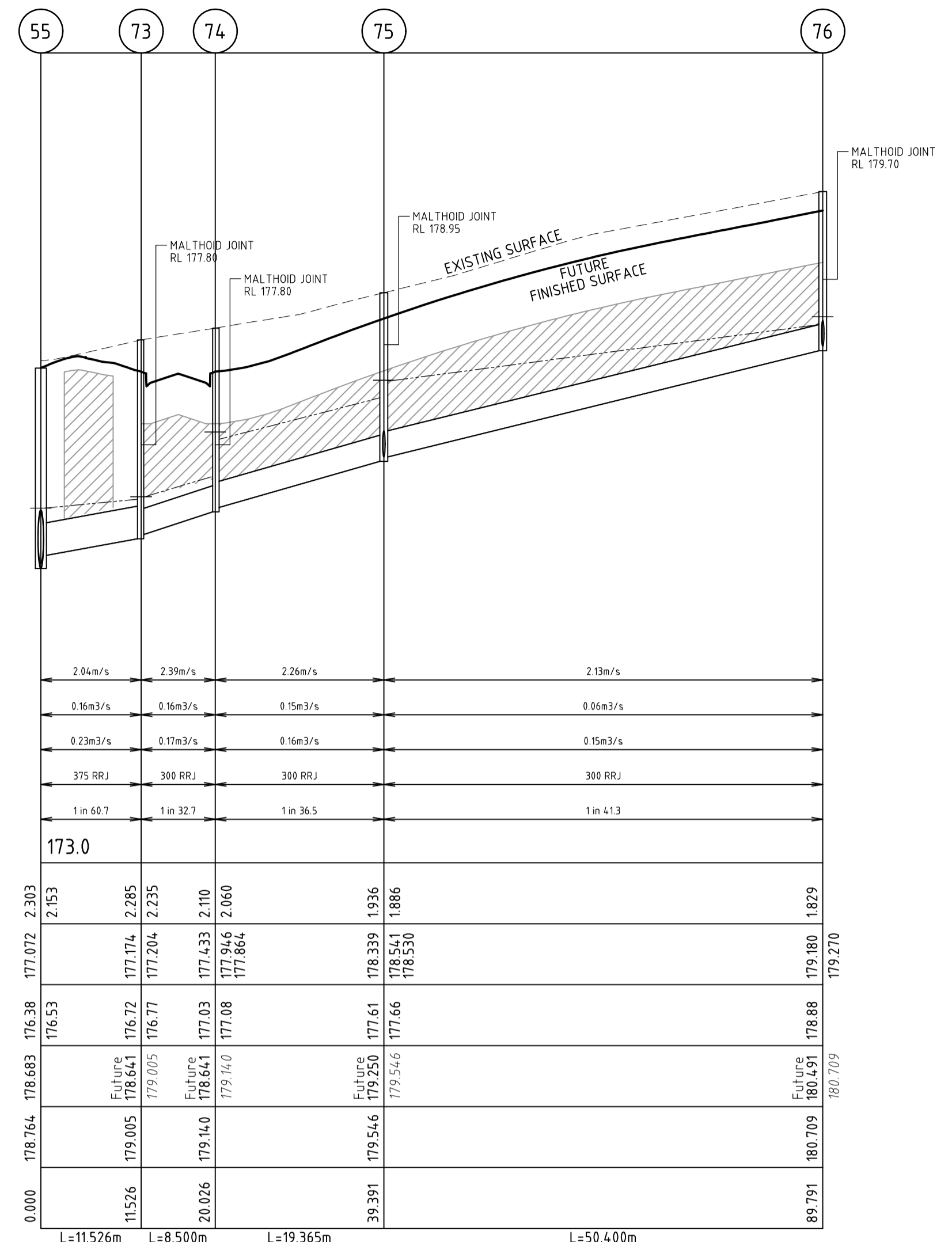
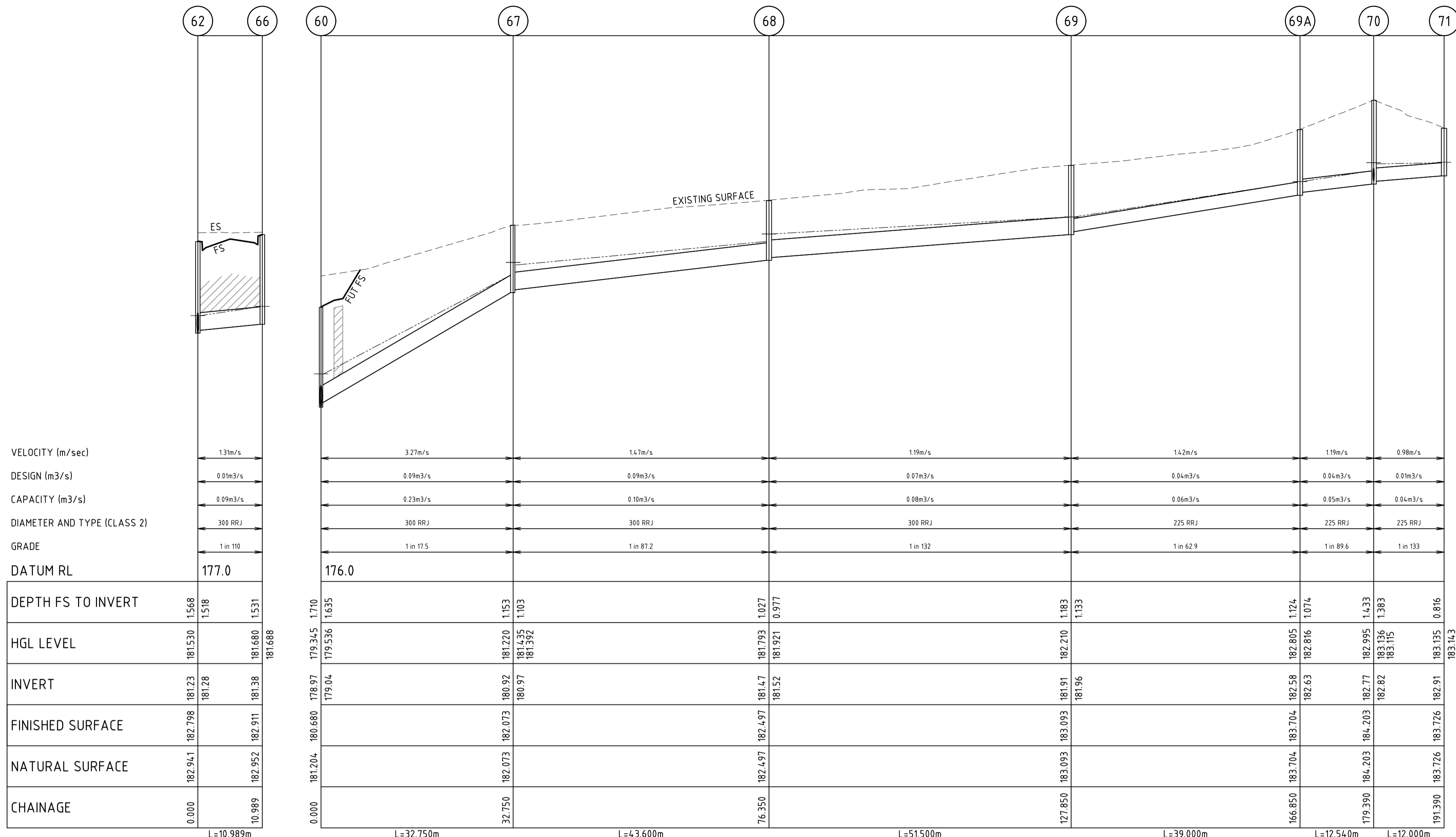
VELOCITY (m/sec)	1.87m/s	2.27m/s	3.26m/s	2.11m/s	1.67m/s	3.35m/s	2.22m/s	1.77m/s	1.43m/s	2.47m/s	2.39m/s														
DESIGN (m ³ /s)	0.63m ³ /s	0.46m ³ /s	0.45m ³ /s	0.44m ³ /s	0.25m ³ /s	0.23m ³ /s	0.12m ³ /s	0.09m ³ /s	0.04m ³ /s	0.02m ³ /s	0.01m ³ /s														
CAPACITY (m ³ /s)	0.67m ³ /s	0.64m ³ /s	0.71m ³ /s	0.46m ³ /s	0.27m ³ /s	0.37m ³ /s	0.16m ³ /s	0.12m ³ /s	0.10m ³ /s	0.17m ³ /s	0.17m ³ /s														
DIAMETER AND TYPE (CLASS 2)	675 RRJ	600 RRJ	525 RRJ	525 RRJ	450 RRJ	375 RRJ	300 RRJ	300 RRJ	300 RRJ	300 RRJ	300 RRJ														
GRADE	1 in 158	1 in 91.9	1 in 37.2	1 in 88.7	1 in 115	1 in 22.5	1 in 38.1	1 in 63.7	1 in 92	1 in 30.8	1 in 32.8														
DATUM RL	172.0																								
DEPTH FS TO INVERT	2.186	2.186	Future 2.303	2.253	2.276	1.993	1.943	2.285	2.235	2.707	2.657	2.234	2.184	1.820	1.780	1.568	1.518	2.041	1.991	2.015	1.965	1.578	1.528		
HGL LEVEL	176.25	176.25	177.072	177.300	177.351	178.165	178.252	178.581	178.723	178.869	178.944	179.345	179.536	180.280	180.458	181.530	181.518	182.320	182.372	182.365	182.830	182.845	182.844	183.270	183.277
INVERT	176.25	176.25	176.38	176.70	176.75	177.64	177.69	178.04	178.09	178.25	178.30	178.97	179.02	179.98	180.03	181.23	181.28	182.02	182.07	182.07	182.53	182.58	182.58	183.270	183.277
FINISHED SURFACE	178.436	178.436	Future 178.663	178.663	178.976	179.778	177.64	Future 179.778	179.778	178.25	178.30	Future 180.680	181.204	Future 181.562	181.562	182.798	181.23	184.061	184.061	184.061	184.545	184.545	184.545	184.548	184.548
NATURAL SURFACE	178.582	178.764	178.764	179.098	179.633	179.633	179.633	180.452	180.325	180.325	180.957	181.204	181.204	181.800	181.800	182.941	182.941	184.331	184.331	184.331	184.573	184.573	184.573	184.717	184.717
CHAINAGE	0.000	20.600	20.600	45.400	78.500	78.500	109.538	109.538	127.939	127.939	143.039	143.039	179.639	179.639	256.139	256.139	324.254	324.254	324.254	338.416	338.416	338.416	351.220	351.220	
	L=20.600m	L=24.800m	L=24.800m	L=33.100m	L=31.038m	L=31.038m	L=18.402m	L=18.402m	L=15.100m	L=15.100m	L=36.600m	L=36.600m	L=76.500m	L=76.500m	L=68.115m	L=68.115m	L=14.162m	L=14.162m	L=14.162m	L=12.804m	L=12.804m	L=12.804m	L=12.804m	L=12.804m	

LEGEND

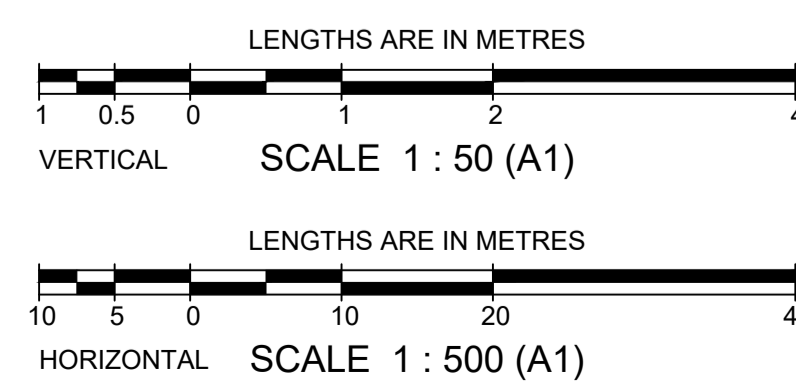
- EXISTING SURFACE
- FINISHED SURFACE
- HYDRAULIC GRADE LINE (5yr)
- DENOTES CRUSHED ROCK BACKFILL



		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cafo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 389-B-11		ELLERY ESTATE STAGE 7		MUNICIPALITY WHITTLESEA	
SURVEY BPD		DESIGN DG		REFERENCE 8625 E/07	
DRAWN DG		DRAINAGE LONGITUDINAL SECTIONS - SHEET 1		SHEET 9 OF 12	
VER. DATE	REMARKS	CHECKED <i>[Signature]</i>	SCALE As Shown	DATUM AHD	DATE Nov'19

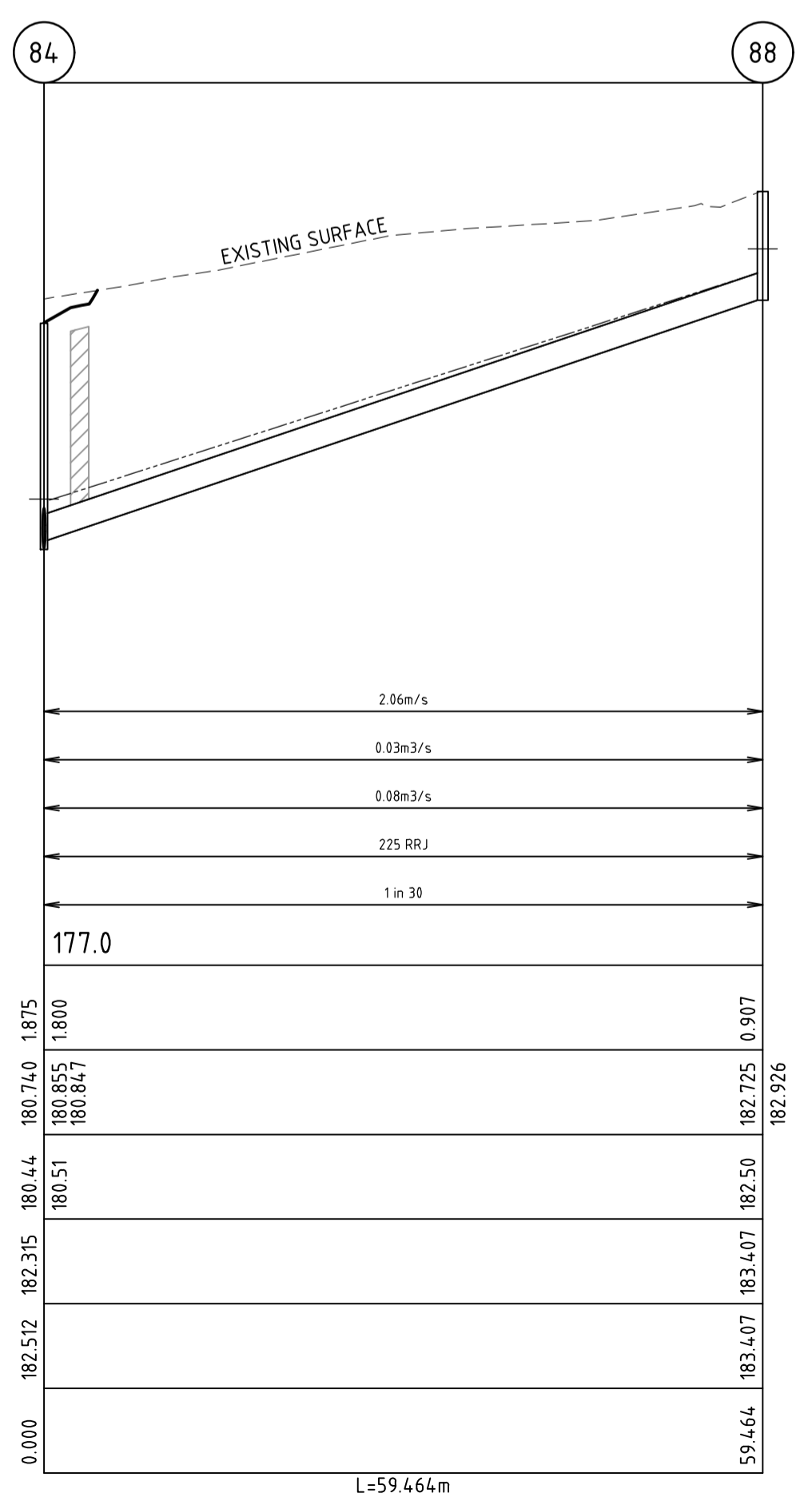
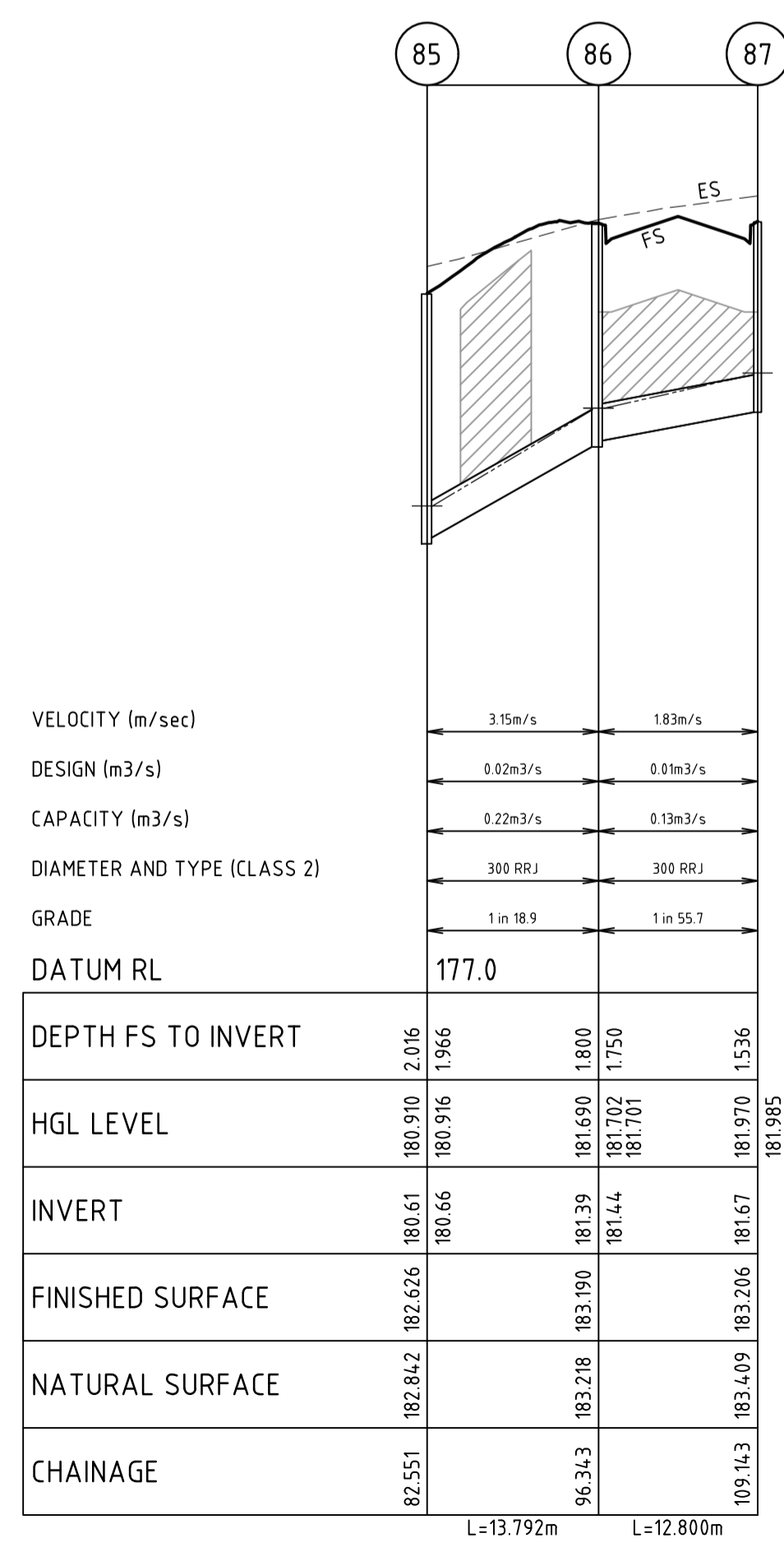
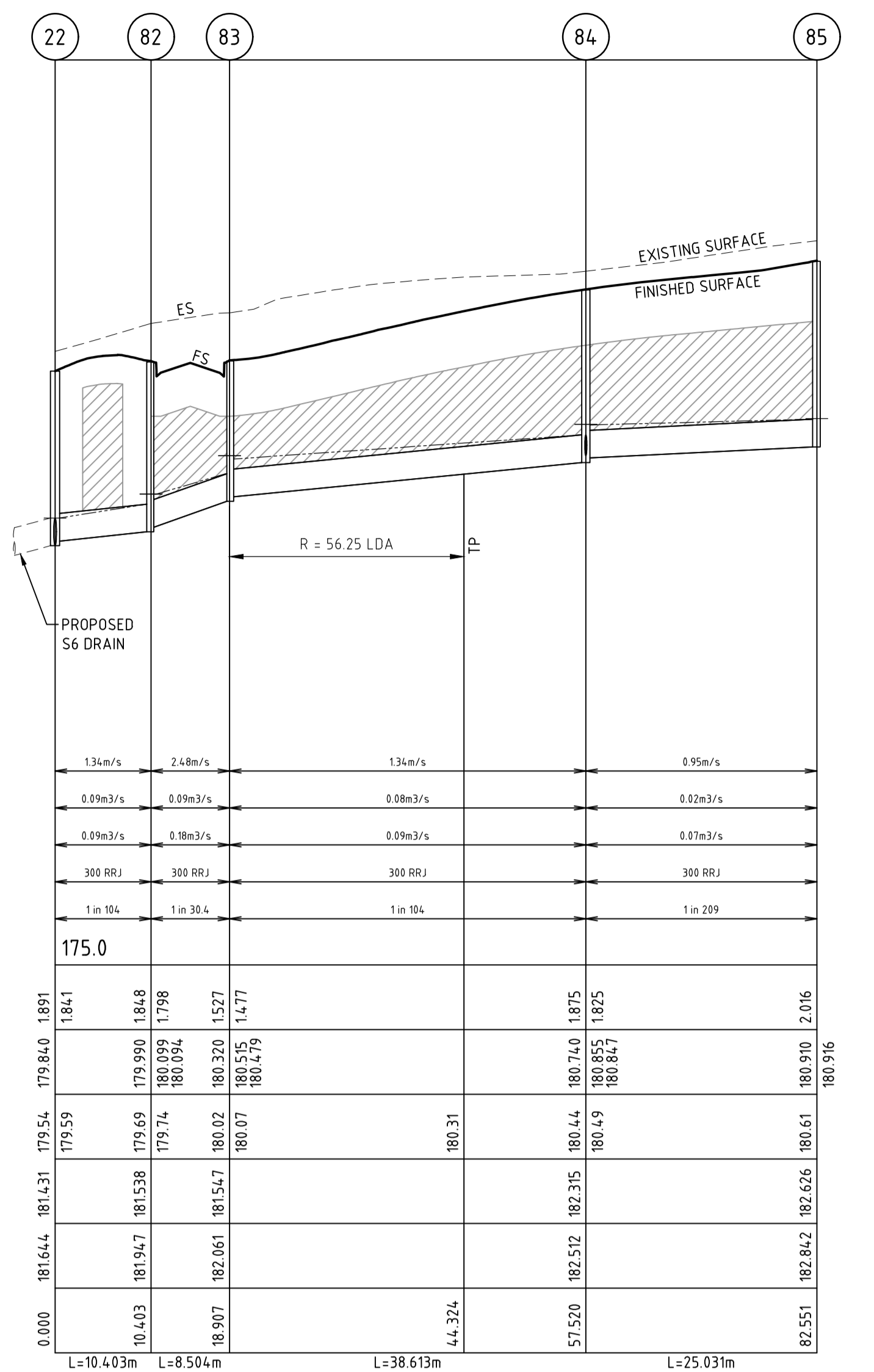
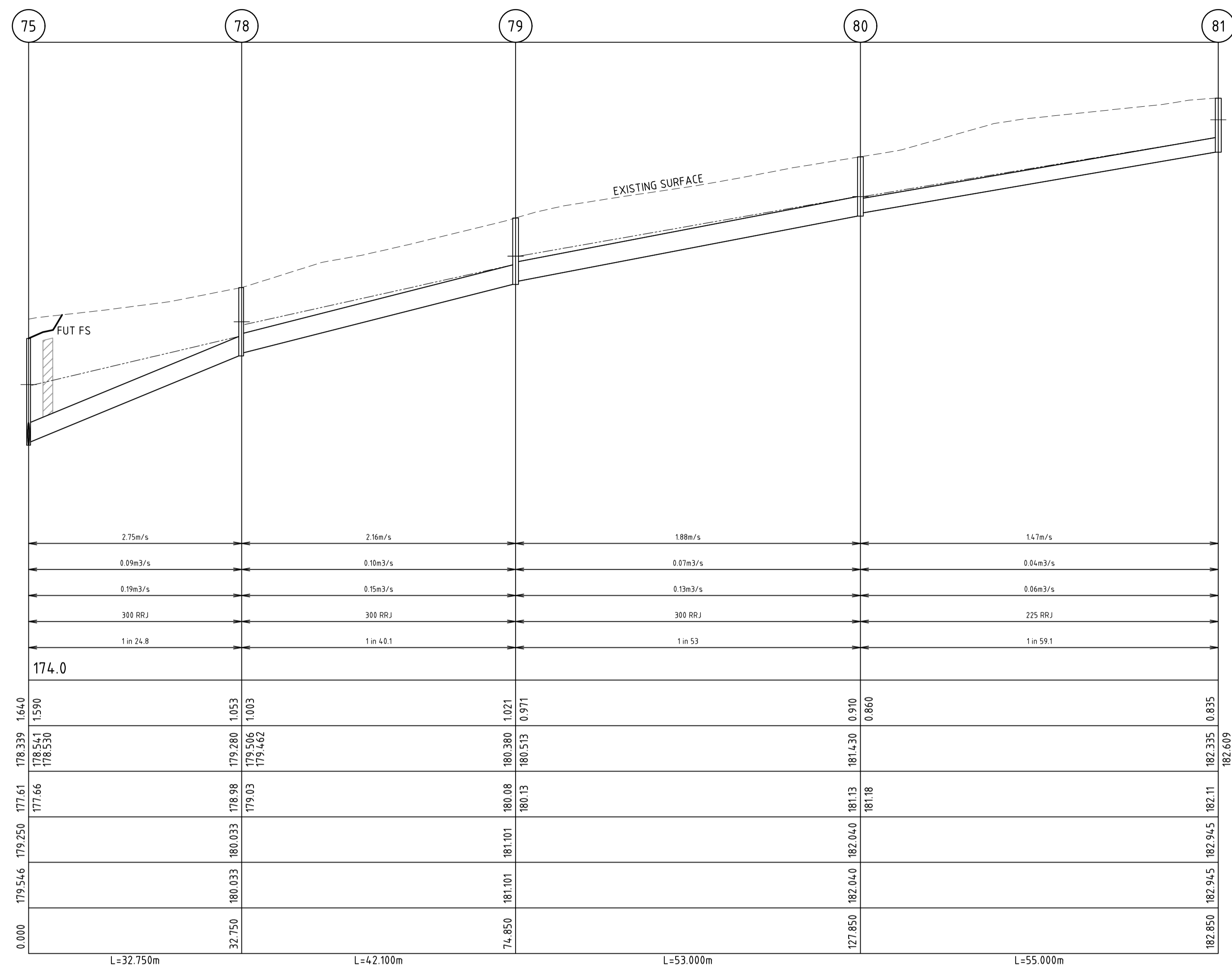
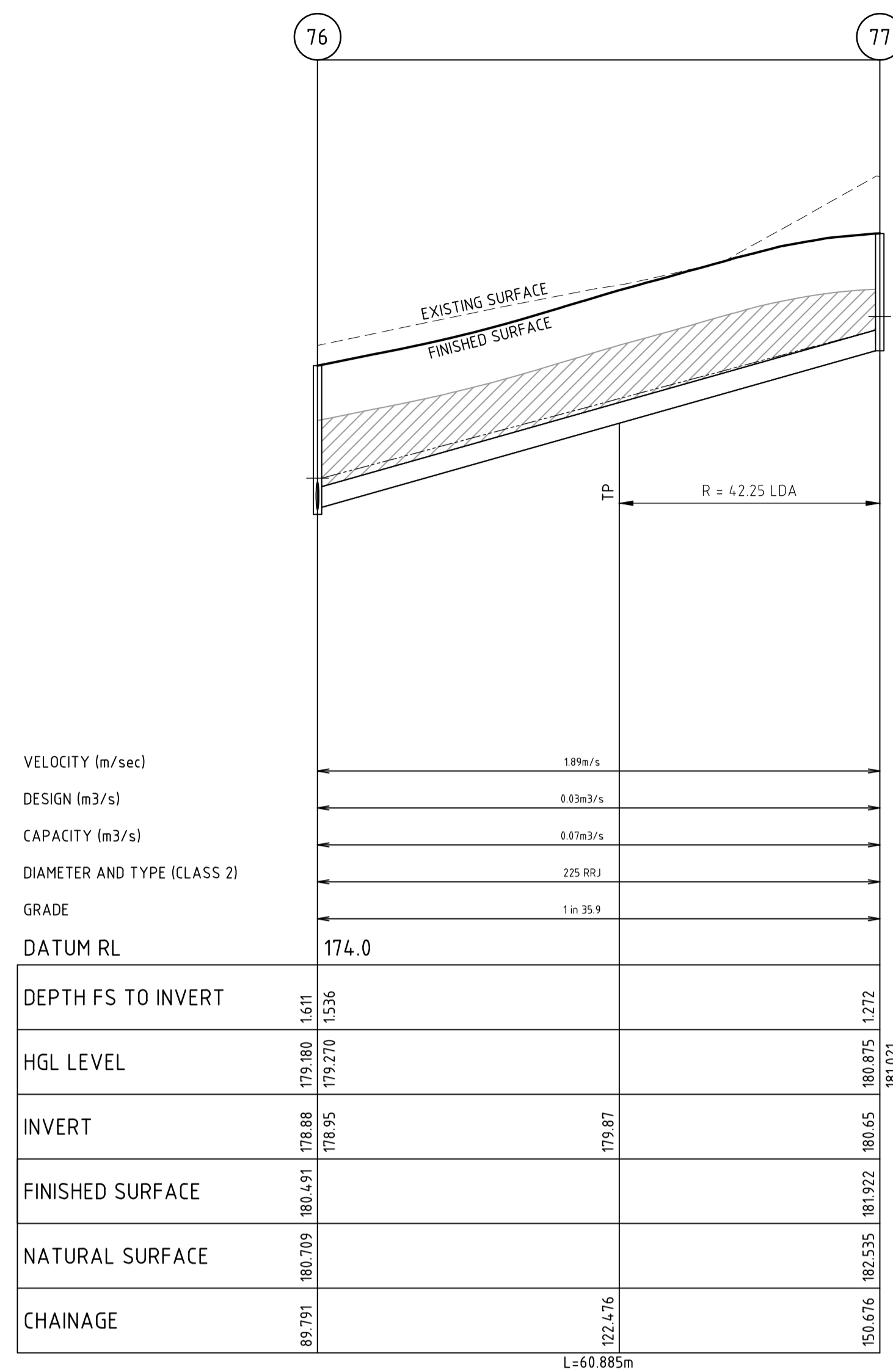


DRAINAGE PIT SCHEDULE											
Mystique Estate - Stage 7											
PIT No	PIT TYPE	INTERNAL WD	INTERNAL LEN	INLET DIA	INLET INV LEV	OUTLET DIA	OUTLET INV LEV	PIT FINISHED COVER RL	PIT DEPTH	REMARKS (Class 'B' Cover unless noted otherwise)	
10	Proposed End of Pipe	-	-			675	176.25	178.430	2.180	CONNECT TO END OF PIPE	
22	Junction Pit	600	900	300	179.59	300	179.54	181.430	1.890	MPA EDCM STD DWG 605 with CLASS 'B' COVER. CONSTRUCT PIT OVER EXISTING END OF PIPE AND MAKE GOOD.	
55	Junction Pit	900	900	600	176.43	675	176.38	178.680	2.300	MPA EDCM STD DWG 607 (HAUNCHED) with TEMP CLASS 'B' CONCRETE COVER.	
56	Future Channel Grating Pit	900	900	525	176.75	600	176.70	178.970	2.270	MPA EDCM STD DWG 607 (HAUNCHED) with TEMP CLASS 'B' CONCRETE COVER.	
57	Future Channel Grating Pit	900	900	525	177.69	525	177.64	179.633	1.993	MPA EDCM STD DWG 607 (HAUNCHED) with TEMP CLASS 'B' CONCRETE COVER.	
58	Junction Pit	900	900	450	178.09	525	178.04	180.320	2.280	MPA EDCM STD DWG 607 (HAUNCHED) with TEMP CLASS 'B' CONCRETE COVER.	
59	Future Channel Grating Pit	600	900	375	178.30	450	178.25	180.957	2.707	MPA EDCM STD DWG 605 with TEMP CLASS 'B' CONCRETE COVER.	
60	Junction Pit	600	900	300	179.02	375	178.97	181.204	2.234	MPA EDCM STD DWG 605 with TEMP CLASS 'B' CONCRETE COVER.	
61	Future Channel Grating Pit	600	900	300	180.03	300	179.98	181.800	1.820	MPA EDCM STD DWG 605 with TEMP CLASS 'B' CONCRETE COVER.	
62	Channel Grating Pit	600	900	300	181.28	300	181.23	182.790	1.560	MPA EDCM STD DWG 601 & 605 with CLASS 'B' COVER.	
63	Junction Pit	600	900	300	182.07	300	182.02	184.060	2.040	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
64	Channel Grating Pit	600	900	300	182.58	300	182.53	184.540	2.010	MPA EDCM STD DWG 601 & 605 with CLASS 'B' COVER.	
65	Channel Grating Pit	600	900	300	182.97	300	182.92	184.540	1.570	MPA EDCM STD DWG 601 & 605 with CLASS 'B' COVER.	
66	Channel Grating Pit	600	900	300	181.38	300	181.33	182.910	1.530	MPA EDCM STD DWG 601 & 605 with CLASS 'B' COVER.	
67	Junction Pit	600	900	300	180.97	300	180.92	182.070	1.150	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
68	Channel Grating Pit	600	900	300	181.52	300	181.47	182.490	1.020	MPA EDCM STD DWG 601 & 605 with CLASS 'B' COVER.	
69	Junction Pit	600	900	225	181.96	300	181.91	183.090	1.180	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
69A	Junction Pit	600	900	225	182.63	225	182.58	183.700	1.120	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
70	Junction Pit	600	900	225	182.82	225	182.77	184.200	1.430	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
71	Junction Pit	600	900	225	182.82	225	182.77	183.720	0.810	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
73	Future Channel Grating Pit	600	900	300	176.77	375	176.72	179.005	2.285	MPA EDCM STD DWG 605 with TEMP CLASS 'B' CONCRETE COVER.	
74	Future Channel Grating Pit	600	900	300	177.08	300	177.03	179.140	2.110	MPA EDCM STD DWG 605 with TEMP CLASS 'B' CONCRETE COVER.	
75	Junction Pit	600	900	300	177.66	300	177.61	179.546	1.936	MPA EDCM STD DWG 605 with TEMP CLASS 'B' CONCRETE COVER.	
76	Future Channel Grating Pit	600	900	225	178.96	300	178.88	180.709	1.829	MPA EDCM STD DWG 605 with TEMP CLASS 'B' CONCRETE COVER.	
77	Junction Pit	600	900	300	178.93	225	180.65	181.920	1.270	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
78	Junction Pit	600	900	300	179.03	300	178.98	180.030	1.050	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
79	Junction Pit	600	900	300	180.13	300	180.08	181.100	1.020	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
80	Junction Pit	600	900	225	181.18	300	181.13	182.040	0.910	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
81	Junction Pit	600	900	300	182.11	225	182.11	182.940	0.830	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
82	Channel Grating Pit	600	900	300	179.74	300	179.69	181.530	1.840	MPA EDCM STD DWG 601 & 605 with CLASS 'B' COVER.	
83	Channel Grating Pit	600	900	300	180.07	300	180.02	181.540	1.520	MPA EDCM STD DWG 601 & 605 with CLASS 'B' COVER.	
84	Junction Pit	600	900	300	180.49	300	180.44	182.310	1.870	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
85	Junction Pit	600	900	300	180.66	300	180.61	182.620	2.010	MPA EDCM STD DWG 605 with CLASS 'B' COVER.	
86	Channel Grating Pit	600	900	300	181.44	300	181.39	183.180	1.790	MPA EDCM STD DWG 601 & 605 with CLASS 'B' COVER.	
87	Channel Grating Pit	600	900	300	181.67	300	181.62	183.200	1.530	MPA EDCM STD DWG 601 & 605 with CLASS 'B' COVER.	



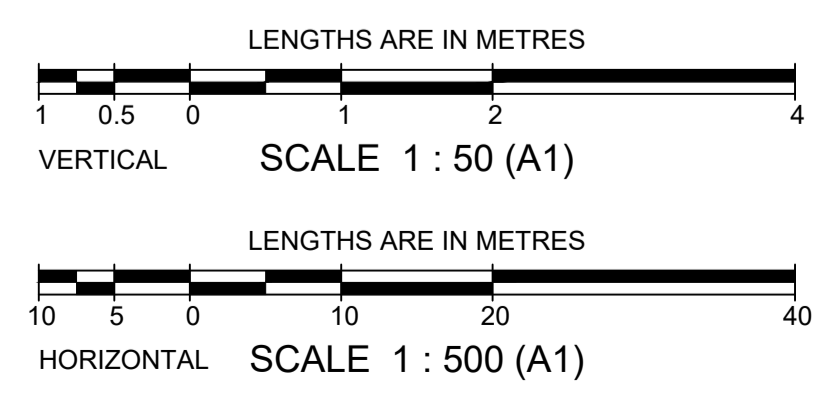
- LEGEND**
- EXISTING SURFACE
 - FINISHED SURFACE
 - HYDRAULIC GRADE LINE (5yr)
 - ▨ DENOTES CRUSHED ROCK BACKFILL
 - LDA INDICATES PIPE WITH LARGER DEFLECTION ANGLE TO BE ORDERED

breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cafo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
MELWAY REF. 389-B-11 SURVEY BPD DESIGN DG DRAWN DG CHECKED [Signature]		ELLERY ESTATE STAGE 7 DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
AMENDMENTS B 5/10/21 ESTATE NAME REVISED A 17/12/19 ISSUED FOR CONSTRUCTION	DATE 5/10/21 17/12/19	SCALE As Shown DATUM AHD DATE Nov'19 SHEET 10 OF 12
MUNICIPALITY WHITTLESEA REFERENCE 8625 E/07		SHEET 10 OF 12



LEGEND

- EXISTING SURFACE
- FINISHED SURFACE
- - - - - HYDRAULIC GRADE LINE (5yr)
- ▨ DENOTES CRUSHED ROCK BACKFILL
- LDA INDICATES PIPE WITH LARGER DEFLECTION ANGLE TO BE ORDERED



AMENDMENTS		
B	5/10/21	ESTATE NAME REVISED
A	17/12/19	ISSUED FOR CONSTRUCTION
VER	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers

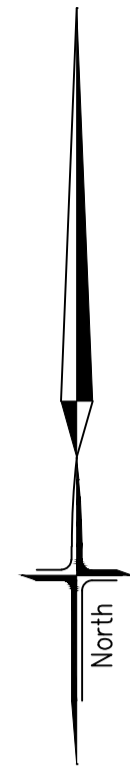
MELWAY REF. **389-B-11**
SURVEY **BPD**
DESIGN **DG**
DRAWN **DG**
CHECKED *[Signature]*

ELLERY ESTATE
STAGE 7
DRAINAGE LONGITUDINAL SECTIONS - SHEET 3

MUNICIPALITY **WHITTLESEA**
REFERENCE **8625 E/07**

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

SCALE **As Shown** DATUM **AHD** DATE **Nov'19** SHEET **11 OF 12** B

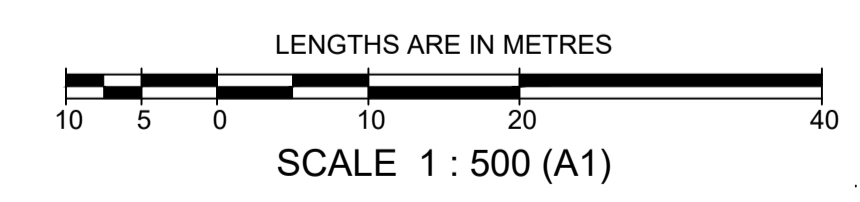


NOTES

- a. ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.
- b. SWLM - INDICATES SOLID WHITE "LONGLIFE" LINE MARKING
BWLm - INDICATES BROKEN WHITE "LONGLIFE" LINE MARKING
- c. INDICATES UNIDIRECTIONAL & BIDIRECTIONAL RRPMS PLACED AT 6m CTS, UNLESS OTHERWISE SHOWN
- d. HAZARD / DIRECTIONAL TGSIS SHOWN THUS AND FOOTPATH RAMPs SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGSIS SHALL CONFORM TO AS1428.4
- e. INDICATES BOLLARDS

SIGNAGE LEGEND

- GIVE WAY SIGN (R1-2A) - CLASS 1
- ROAD CLOSED (G9-20) SIGN WITH OBSTRUCTION MARKER SIGN (D4-S) - CLASS 1
- 3No STREET SIGNS - REFER NOTE 23 SHEET 2



PLAN
1:500

				breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cafo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF.	389-B-11	ELLERY ESTATE STAGE 7		MUNICIPALITY WHITTLESEA	
		SURVEY	BPD				
B		5/10/21	ESTATE NAME REVISED	DESIGN	DG	REFERENCE 8625 E/07	
A		17/12/19	ISSUED FOR CONSTRUCTION	DRAWN	DG		
VER.	DATE	REMARKS	CHECKED	SCALE	DATUM	DATE	SHEET
				As Shown	AHD	Nov'19	12 OF 12