

**PROPOSED STAGE 31**

**PLAN**

SCALE A1 - 1 : 1000

LENGTHS ARE IN METRES



SCALE 1 : 1000 (A1)

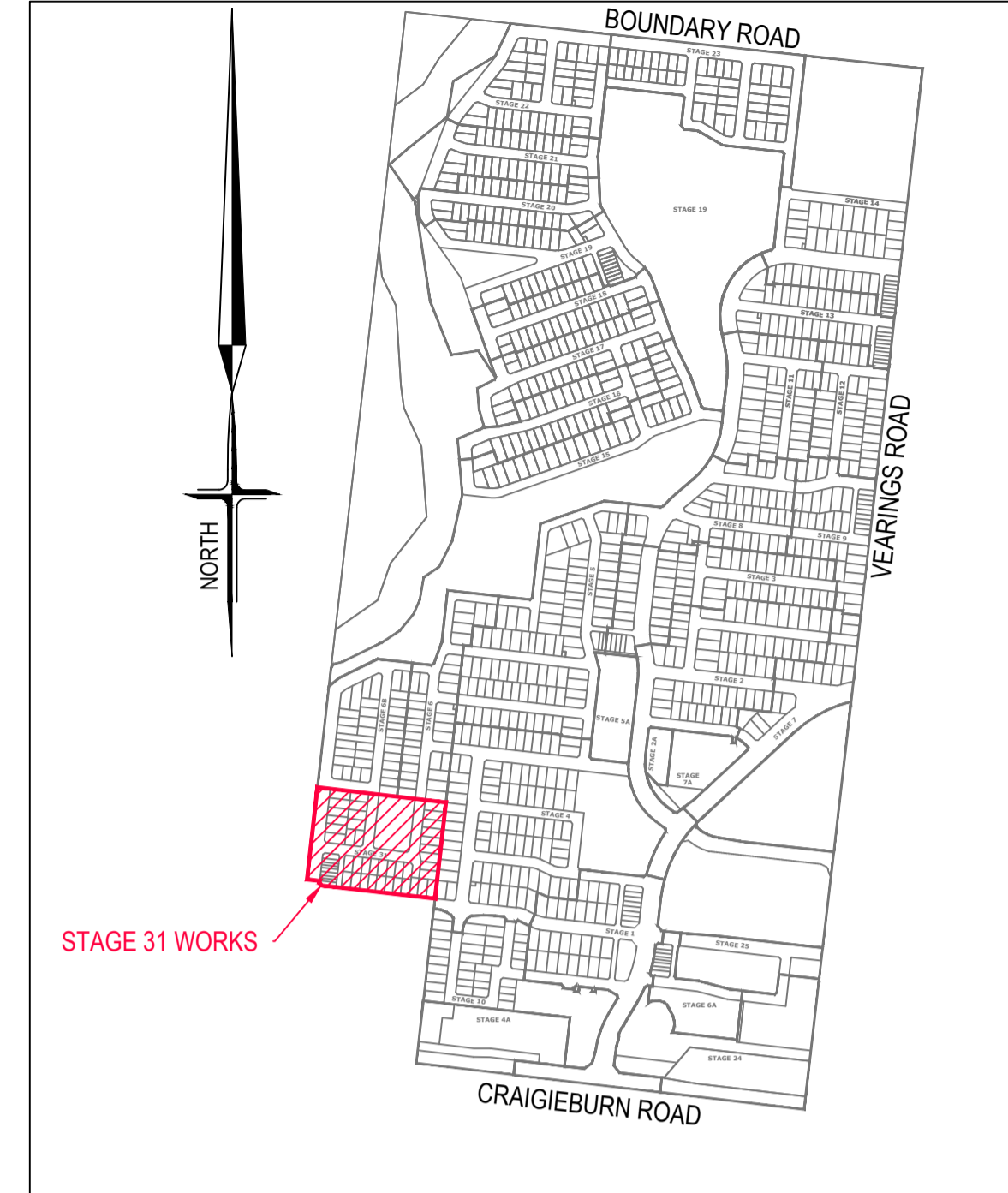
**SERVICES OFFSETS AND LOCATIONS**

Location	Gas		Water		Communications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
	NDW	DW	NDW	DW	Cables	Pits	Cables	Poles				
LAKERIDGE DRIVE	2.10 E	2.70 E	3.20 E	3.20 E	6.40 W	1.80 E	6.90 W	1.00 BOK	4.35 E 8.05 W	20.00	G&W, FTTH&E	STREET LEVEL 1
FEATHERDALE ROAD	2.25 W	3.20 N	2.70 N	1.85 E	1.80 W	2.60 E	1.00 BOK	4.35 W 4.05 E	16.00	G&W, FTTH&E	STREET LEVEL 1	
PREVELI WAY	2.25 NW	3.20 NW	2.70 NW	1.85 S/E	1.80 NW	2.60 S/E	1.00 BOK	4.35 W 4.05 E	16.00	G&W, FTTH&E	STREET LEVEL 1	
PREVELI WAY (LANE)	3.60 E	4.60 E	4.10 E	3.10 E	3.10 E	2.10 E	1.00 BOK	4.35 W 4.05 E	12.50	G&W, FTTH&E	STREET LEVEL 1	
STONEVIEW LANE	-	-	-	-	-	-	-	-	5.20 E 3.30 W 0.00 E 0.00 W	8.00	-	ACCESS LANE

NOTE: a) At the court bowl where water and gas mains pass, the watermain offset is to be increased by 0.5 metres.  
 b) \* Indicates offsets from back of kerb where services do not run parallel to title boundary.  
 c) \* Indicates Communication pits placed within concrete footpath.

**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.



**LOCALITY PLAN**  
SCALE 1:10,000

SHEET INDEX		
SHEET #	REVISION	DESCRIPTION
1	A	OVERALL PLAN
2	A	DETAIL PLAN - SHEET 1
3	A	NOTES, PAVEMENT DETAILS & TYPICAL SECTIONS
4	A	INTERSECTION DETAILS - SHEET 1
5	A	INTERSECTION DETAILS - SHEET 2
6	A	INTERSECTION DETAILS - SHEET 3
7	A	LAKERIDGE DRIVE LONGITUDINAL SECTION
8	A	LAKERIDGE DRIVE CROSS SECTIONS
9	A	PREVELI WAY LONGITUDINAL SECTION
10	A	PREVELI WAY CROSS SECTIONS
11	A	FEATHERDALE ROAD LONGITUDINAL & CROSS SECTIONS
12	A	PREVELI WAY (LANE) LONGITUDINAL & CROSS SECTIONS
13	A	STONEVIEW LANE LONGITUDINAL & CROSS SECTIONS
14	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
15	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
16	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 3
17	A	DRAINAGE PIT SCHEDULE
18	A	SIGNAGE & LINEMARKING PLAN

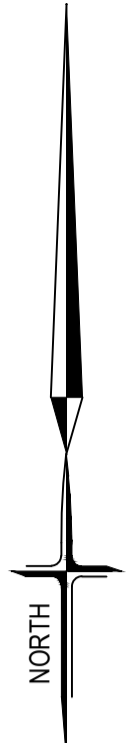
**Robert Gould-Williams**  
PE0007500  
VPER Act 2019

		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. - SURVEY B.P.D. DESIGN B.P.D.		<b>RATHDOWNE ESTATE</b> <b>STAGE 31</b> <b>OVERALL PLAN</b>	
DRAWN M.T. CHECKED R.Gould-Williams		MUNICIPALITY <b>WHITTLESEA</b> REFERENCE <b>9365 E/31</b>	
AMENDMENTS A 25/08/23 ISSUE FOR CONSTRUCTION	DATE 25/08/23	SCALE AS SHOWN	DATUM AHD
VER DATE	REMARKS	DATE Aug 23	SHEET 1 OF 18



**PLAN NOTES:**

- CONTRACTOR TO CONSTRUCT NEW HD ON EXISTING DRAINAGE LINE FOR LOTS 3130 TO 3139 & LOT 3163
- PROVIDE PALING FENCE FOR LOT BOUNDARY ADJACENT RESERVE EXISTING OPEN CHANNEL OUTFALL DRAIN TO BE DE-SLUGGED AND REFILLED TO LEVEL 1 COMPACTION REQUIREMENTS WITH SUITABLE ON SITE MATERIAL



REMOVE CONCRETE EDGE STRIP & MATCH NEATLY WITH EXISTING

REMOVE CONCRETE EDGE STRIP & MATCH NEATLY WITH EXISTING

TAKE UP & REMOVE DRAINAGE PIPE & HEADWALL

CONNECT DRAINAGE TO EXISTING PIT

REMOVE CONCRETE EDGE STRIP & MATCH NEATLY WITH EXISTING

VEHICULAR EXCLUSION FENCE TO BE CONSTRUCTED AS PART OF STAGE 31 LANDSCAPE WORKS

BCS CONSERVATION RESERVE NO-GO AREA

TGSI'S IN ACCORDANCE WITH WHITTLESEA SD320

3m WIDE SHARED PATH

REMOVE CONCRETE EDGE STRIP & MATCH NEATLY WITH EXISTING

SEE PLAN NOTE 4

SEE PLAN NOTE 5

SEE PLAN NOTE 4

SEE PLAN NOTE 1

SEE PLAN NOTE 1

SEE PLAN NOTE 1

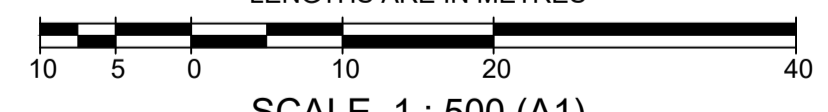
SEE PLAN NOTE 1

SEE PLAN NOTE 1

**PLAN**

SCALE A1 - 1 : 500

LENGTHS ARE IN METRES



SCALE 1 : 500 (A1)

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

SYMBOL LEGEND	
Prop	Prev Stage
Drains	Ex/Natural/FS Level
Sewer < 3000	FS @ Building Line
Sewer ≥ 3000	Top/Toe of Batter
Water (DW)	Top Ret. Wall Level
Water (NDW)	100yr Flood Level
House Drain	Property Inlet
Property Inlet	Street Sign
Street Sign	PSM
Rock Ret Wall	Rock Ret Wall
Sleeper Ret Wall	Sleeper Ret Wall
Conduits 50mm	Conduits 50mm
Conduits 100mm	Conduits 100mm
Street Trees without/with Passive Irrigation (Refer Detail)	Street Trees without/with Passive Irrigation (Refer Detail)
Ex Drains	Ex Water DW/NDW
Ex Sewer/Gas	Ex Sewer/Gas
Ex Elect/Comm	Ex Elect/Comm
Fill Proposed (<0.3m)±0.3m	Fill Proposed (<0.3m)±0.3m
Cut Proposed	Cut Proposed
Asphalt Surface Prop	Asphalt Surface Prop
Concrete Surface Prop (Paths/Driveways/Slabs)	Concrete Surface Prop (Paths/Driveways/Slabs)
Tree To Be Removed	Tree To Be Removed
Tree To Be Retained with Tree Protection Zone (TPZ)	Tree To Be Retained with Tree Protection Zone (TPZ)

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.	-	<b>RATHDOWNE ESTATE</b> <b>STAGE 31</b> <b>DETAIL PLAN</b>		MUNICIPALITY WHITTLESEA	
SURVEY	B.P.D.			REFERENCE 9365 E/31	
DESIGN	B.P.D.	DRAWN	M.T.	SCALE	AS SHOWN
DATE	25/08/23	CHECKED	R.Gould-Williams	DATUM	AHD
REMARKS	ISSUE FOR CONSTRUCTION	DATE	Aug 23	SHEET	2 OF 18

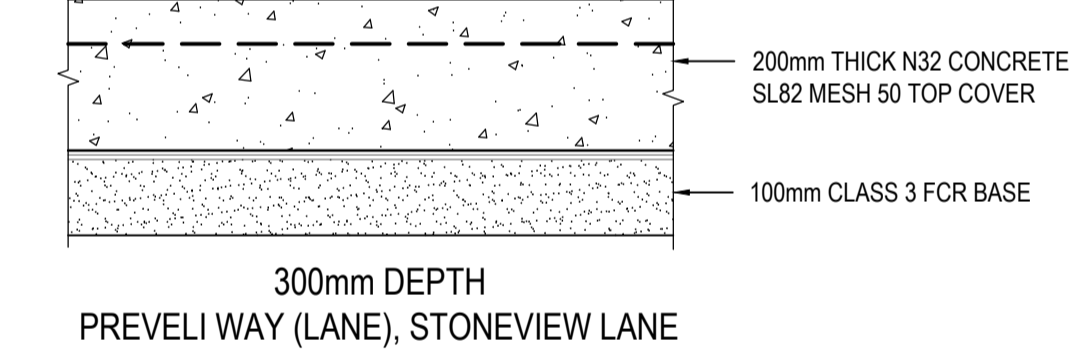
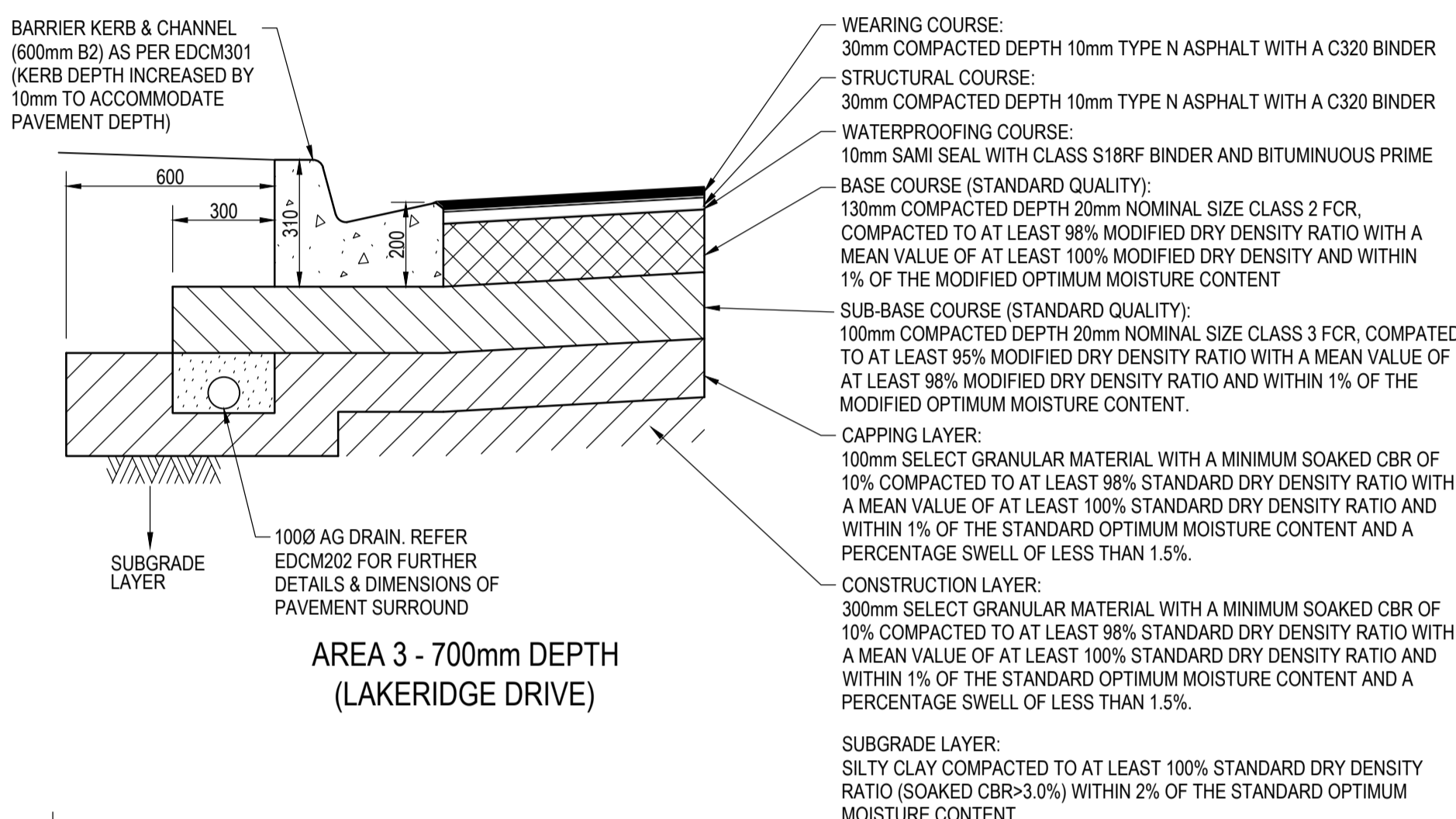
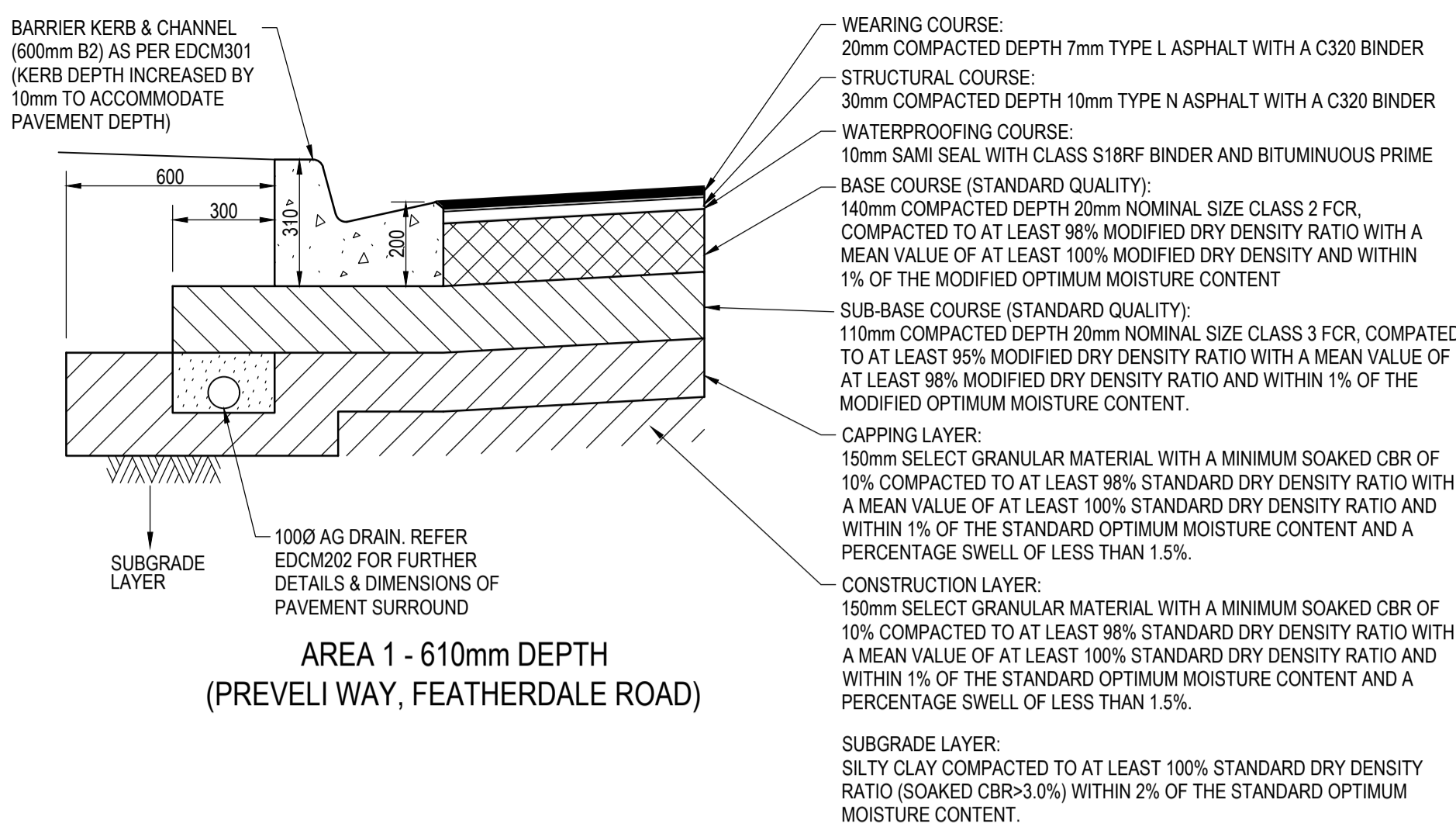
**NOTES:**

- 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 SET OUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. REFER EDMCM601-608 FOR FURTHER DETAILS.
- ALL PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED AND SHALL BE RRJ UP TO AND INCLUDING 75mm 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 (RRJS 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 ENROACH 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 EDMCM202).
- 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 REQUIREMENTS.
- 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 SD625, 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 EDMCM501 & 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.
- ALL PEDESTRIAN CROSSINGS ARE TO BE CONSTRUCTED GENERALLY IN ACCORDANCE WITH EDMCM03. ALL PRAM CROSSING SPLAYS MUST BE 600mm WIDE AND NO GREATER.
- 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 TBMS TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBMS 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.

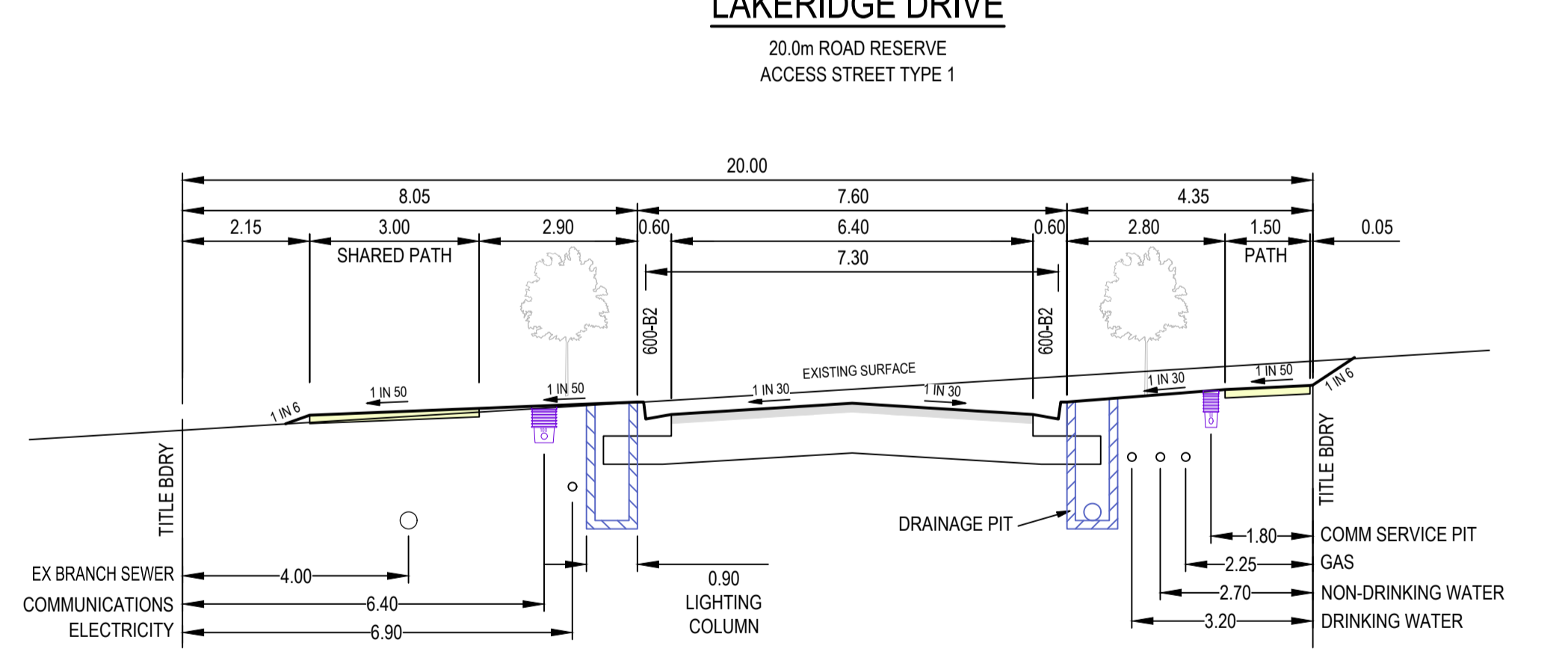
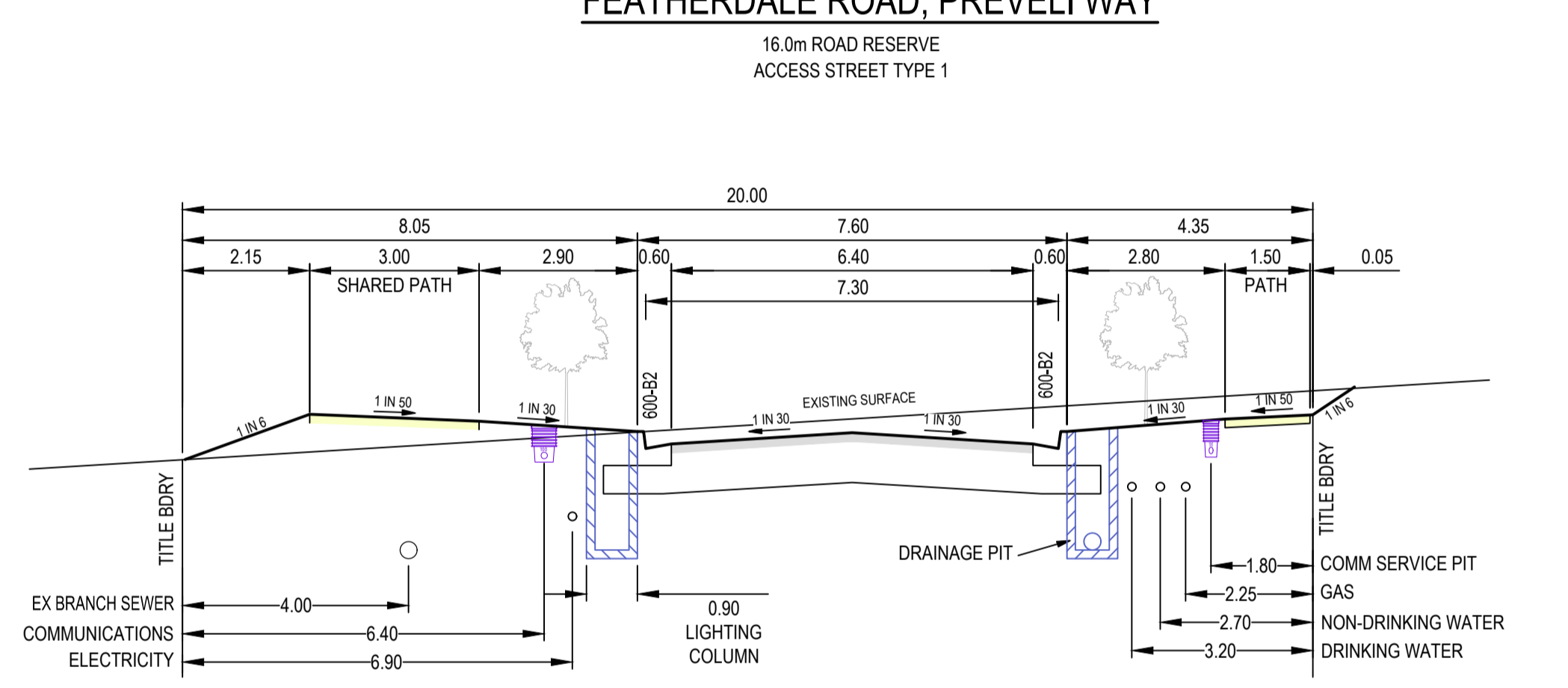
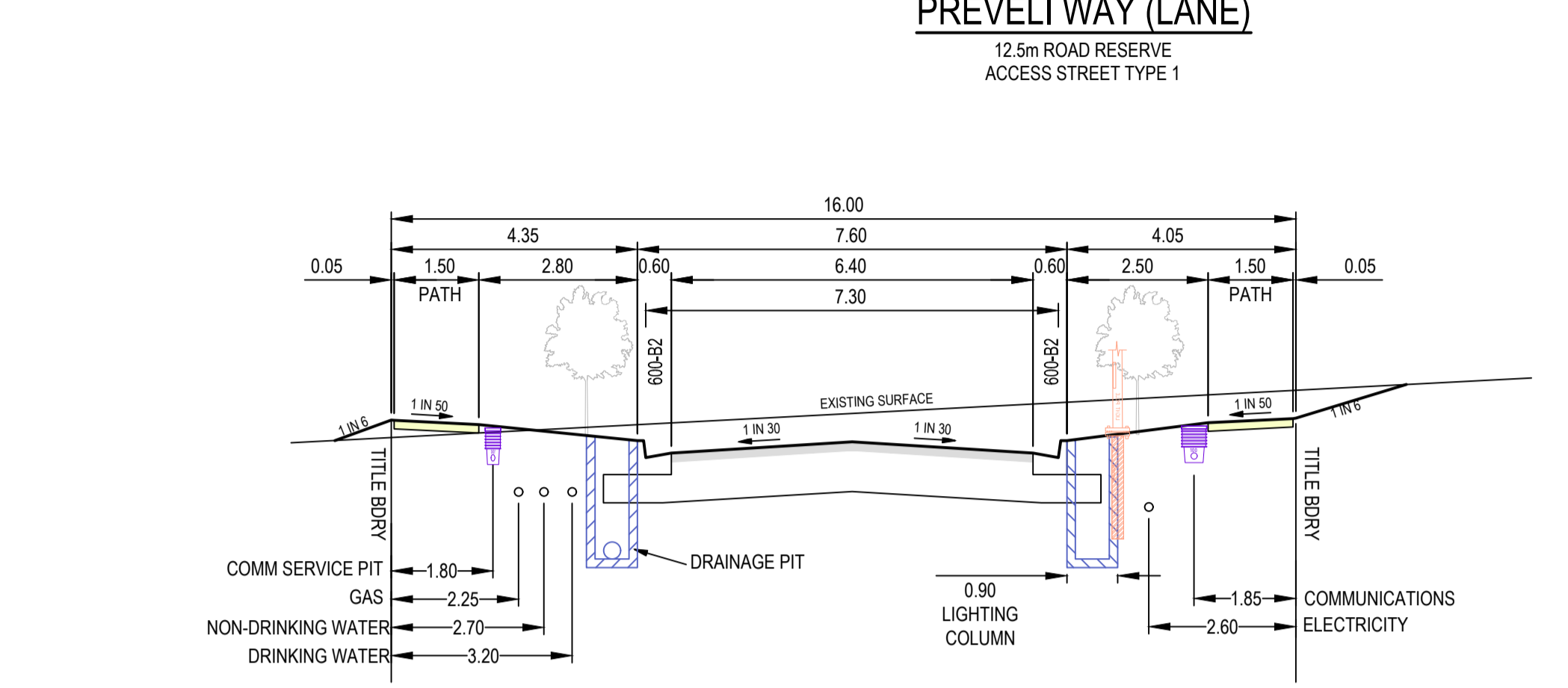
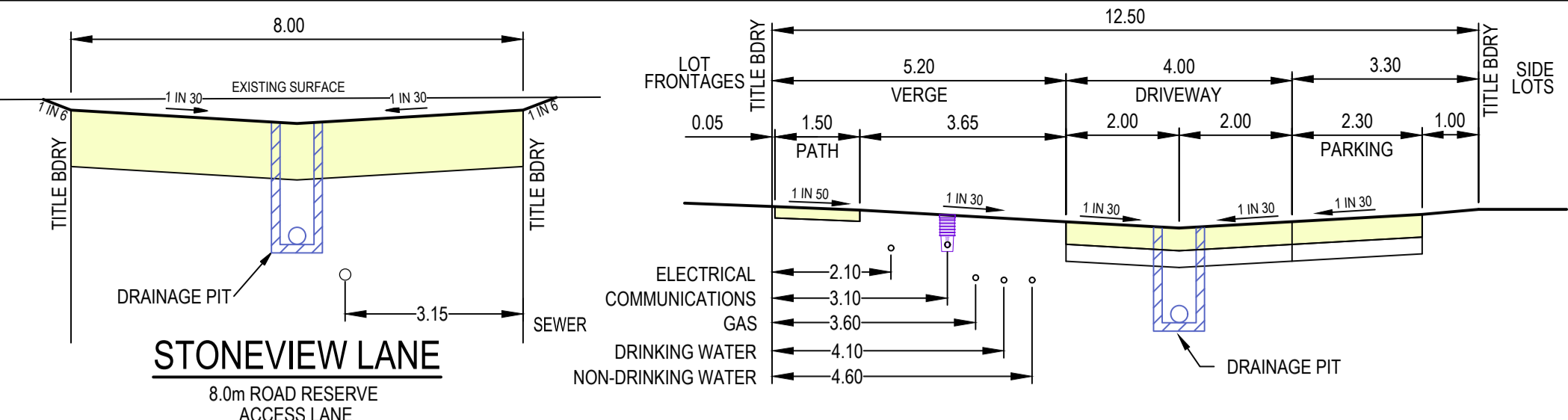
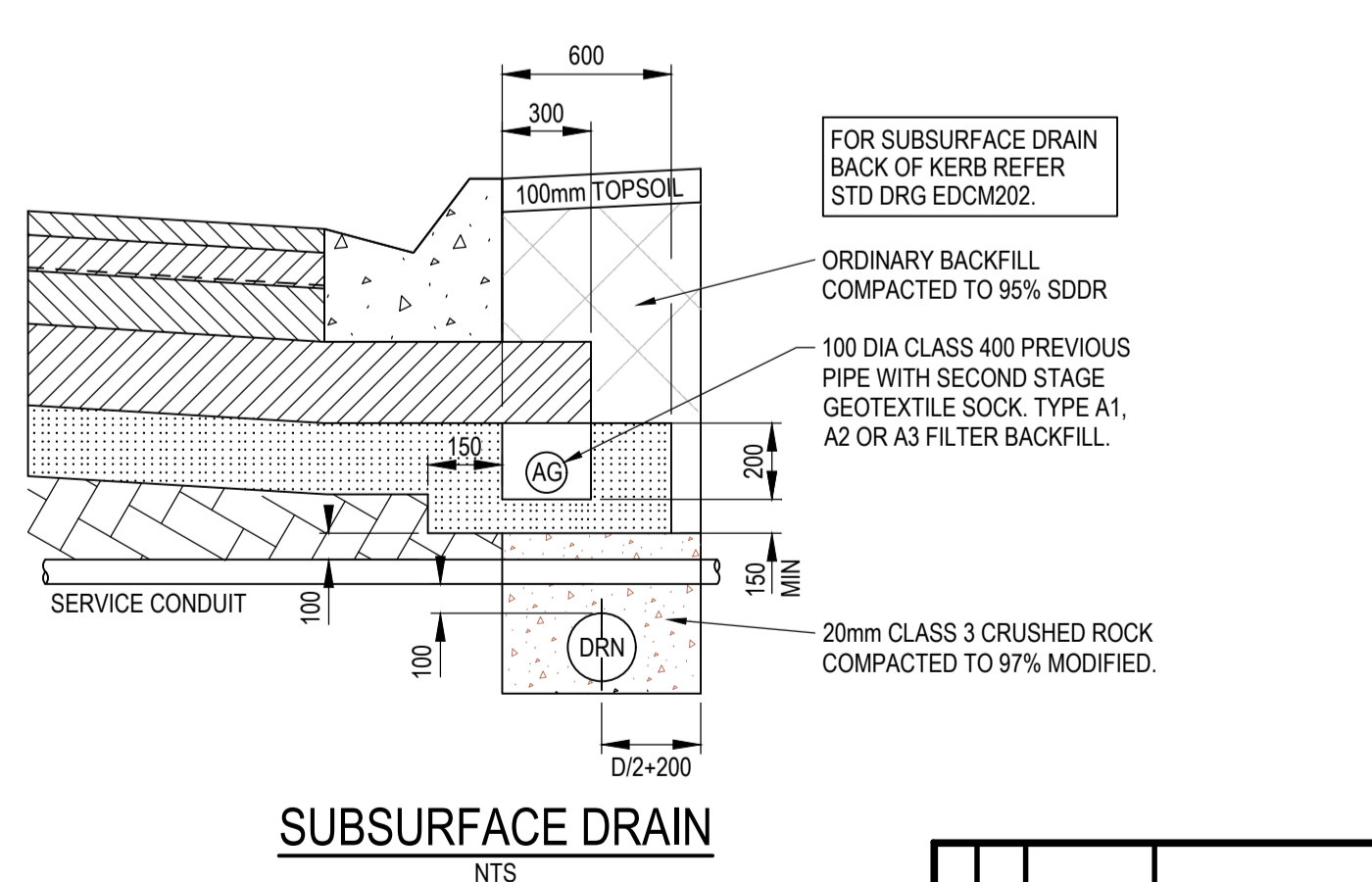
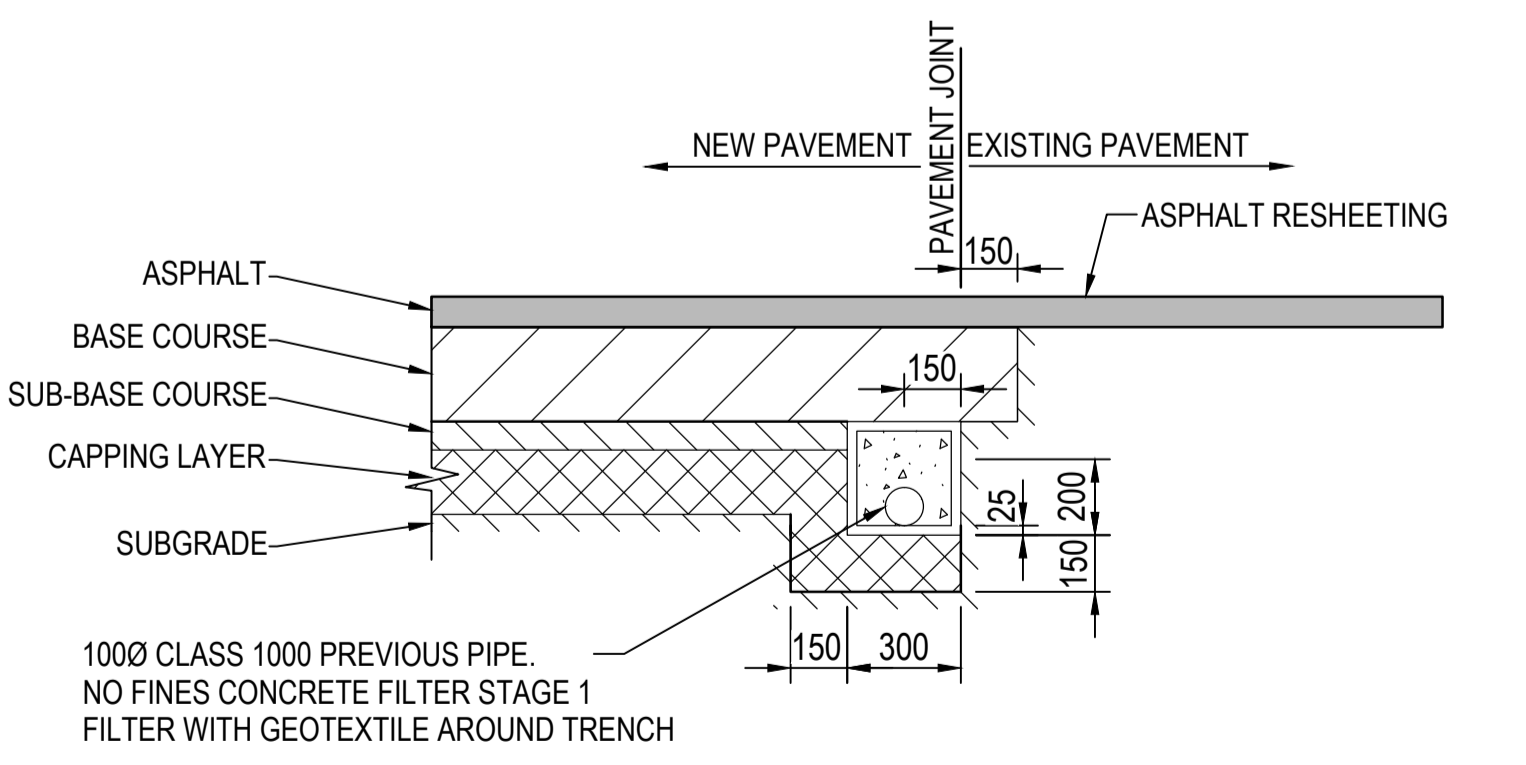
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW SITE ENVIRONMENTAL 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 SDL.2.02)
  - 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 ENCIRCLE 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 SDL.2.03)

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

- PROVIDE 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. FENCING TO BE ERECTED BY THE DEVELOPER (OR OWNER) AT NO COST TO COUNCIL. PALINGS TO BE ON THE RESERVE SIDE AND CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SDL.3.09 & SDL.3.10.
- VEHICULAR EXCLUSION FENCING TO BE PROVIDED ALONG THE ROAD FRONTAGES OF ALL RESERVES. REFER LANDSCAPE PLANS FOR FENCE DETAILS. FENCING TO BE CONSTRUCTED AS PART OF LANDSCAPE WORKS.
- PROVIDE TEMPORARY SAFETY BARRIER FENCE (FARM FENCE AS PER MW STD. DWG. 7251/8/203) ALONG EDGE OF OUTFALL DRAINS. SAFETY FENCE TO REMAIN UNTIL PERMANENT UNDERGROUND DRAINAGE IS INSTALLED.
- 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.
- TACTILE GROUND SURFACE INDICATORS (TGS) 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.



**PAVEMENT COMPOSITION**  
SCALE A1 - N.T.S  
REFER TO MRSC SD 027 FOR FURTHER AG, SERVICE CONDUIT AND TRENCH BACKFILL DETAILS



**TYPICAL SECTIONS**  
SCALE A1 - 1:100H 1:50V  
LENGTHS ARE IN METRES  
SCALE 1 : 100 (A1)

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

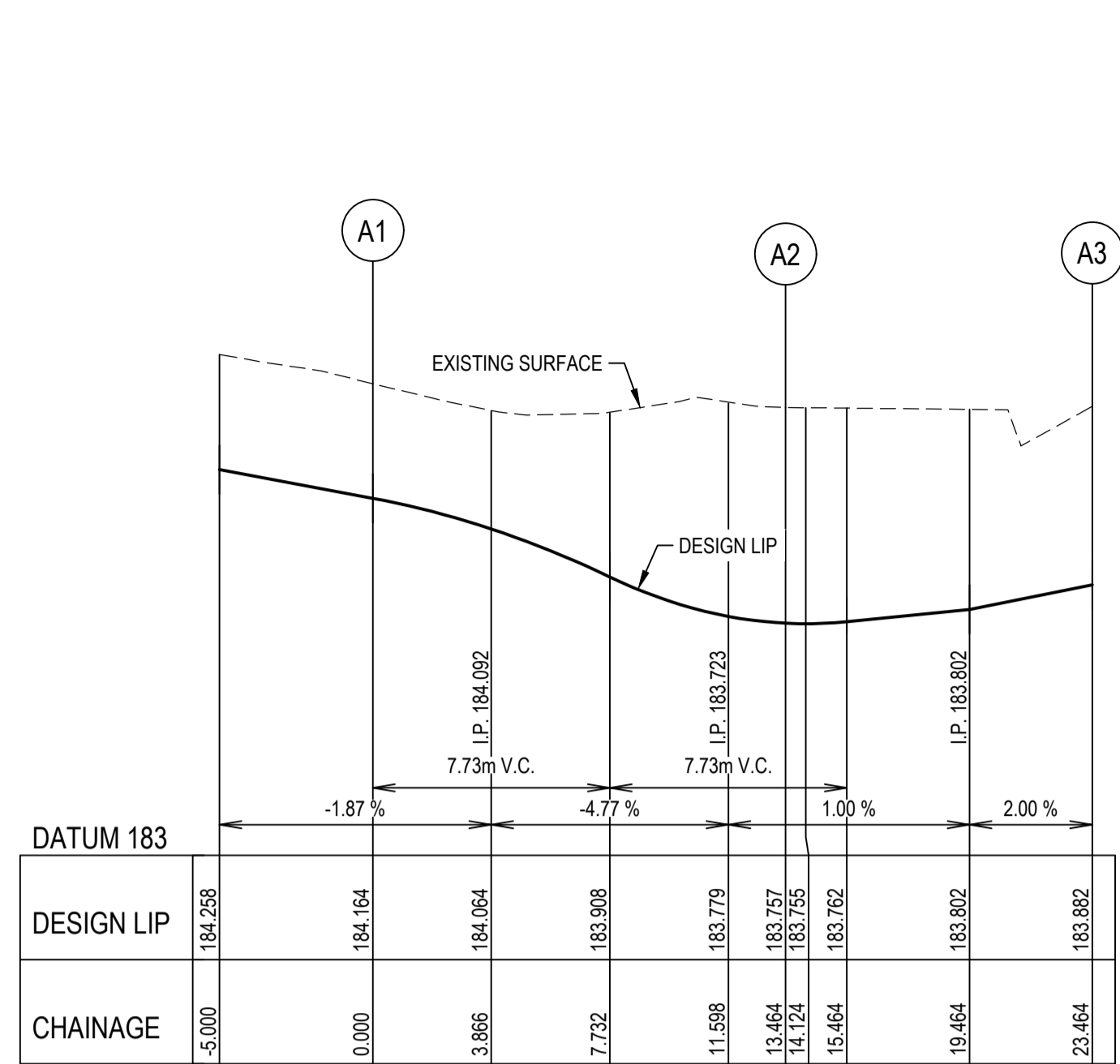
**RATHDOWNE ESTATE STAGE 31**

NOTES, PAVEMENT DETAILS & TYPICAL SECTIONS

MUNICIPALITY WHITTLESEA  
REFERENCE 9365 E/31

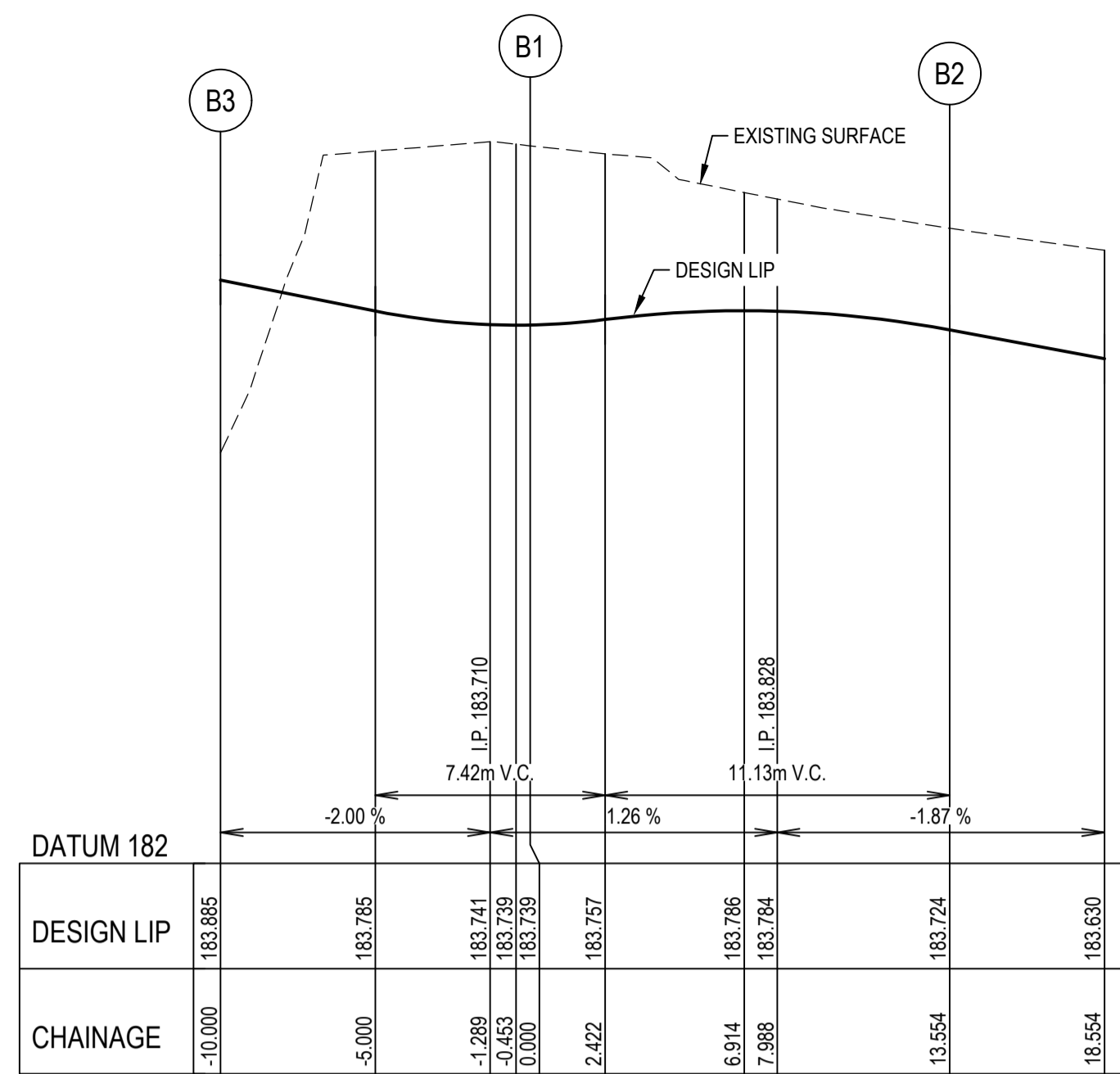
SCALE AS SHOWN DATUM AHD DATE Aug 23 SHEET 3 OF 18 A

AMENDMENTS	DATE	REMARKS	CHECKED
A	25/08/23	ISSUE FOR CONSTRUCTION	R.Gould-Williams



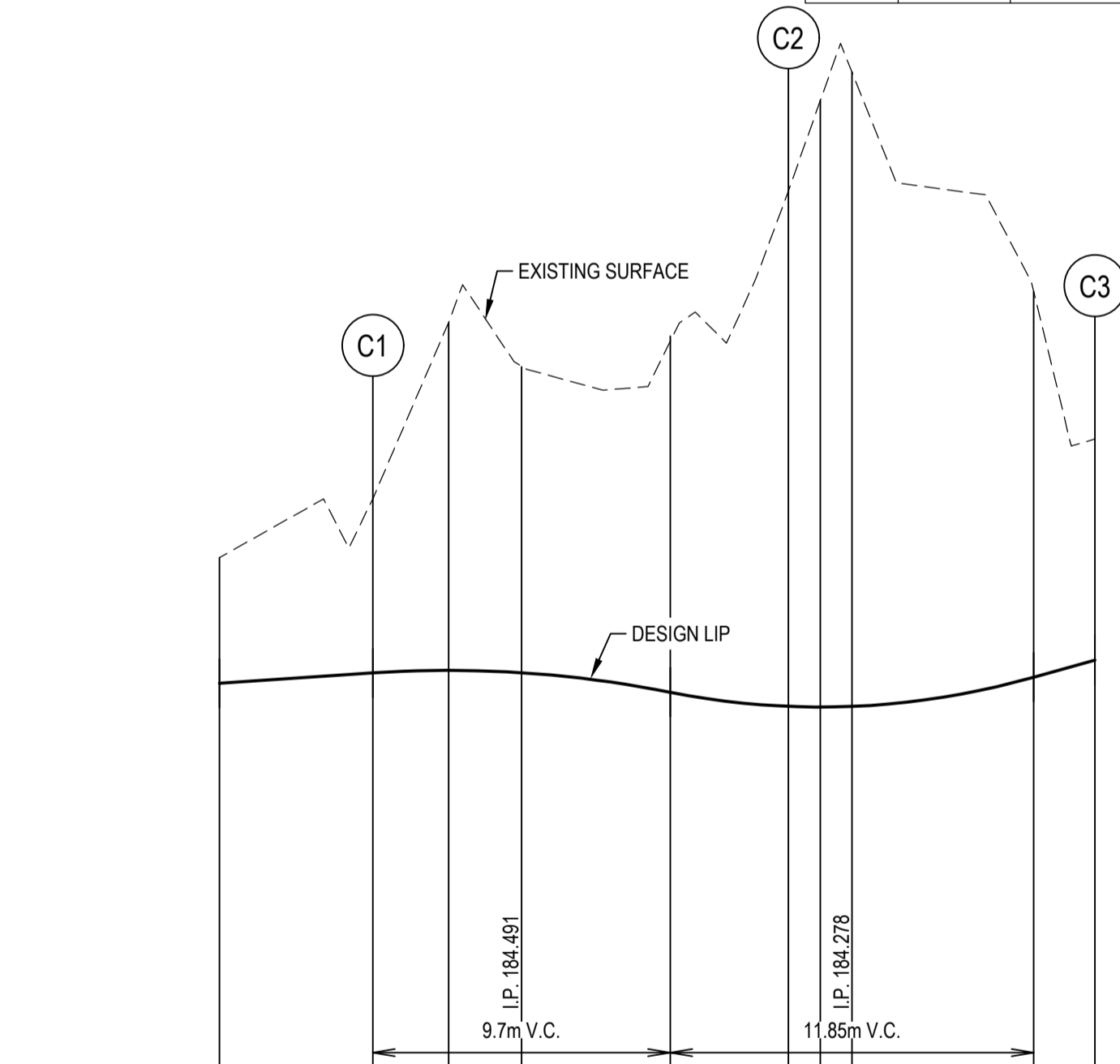
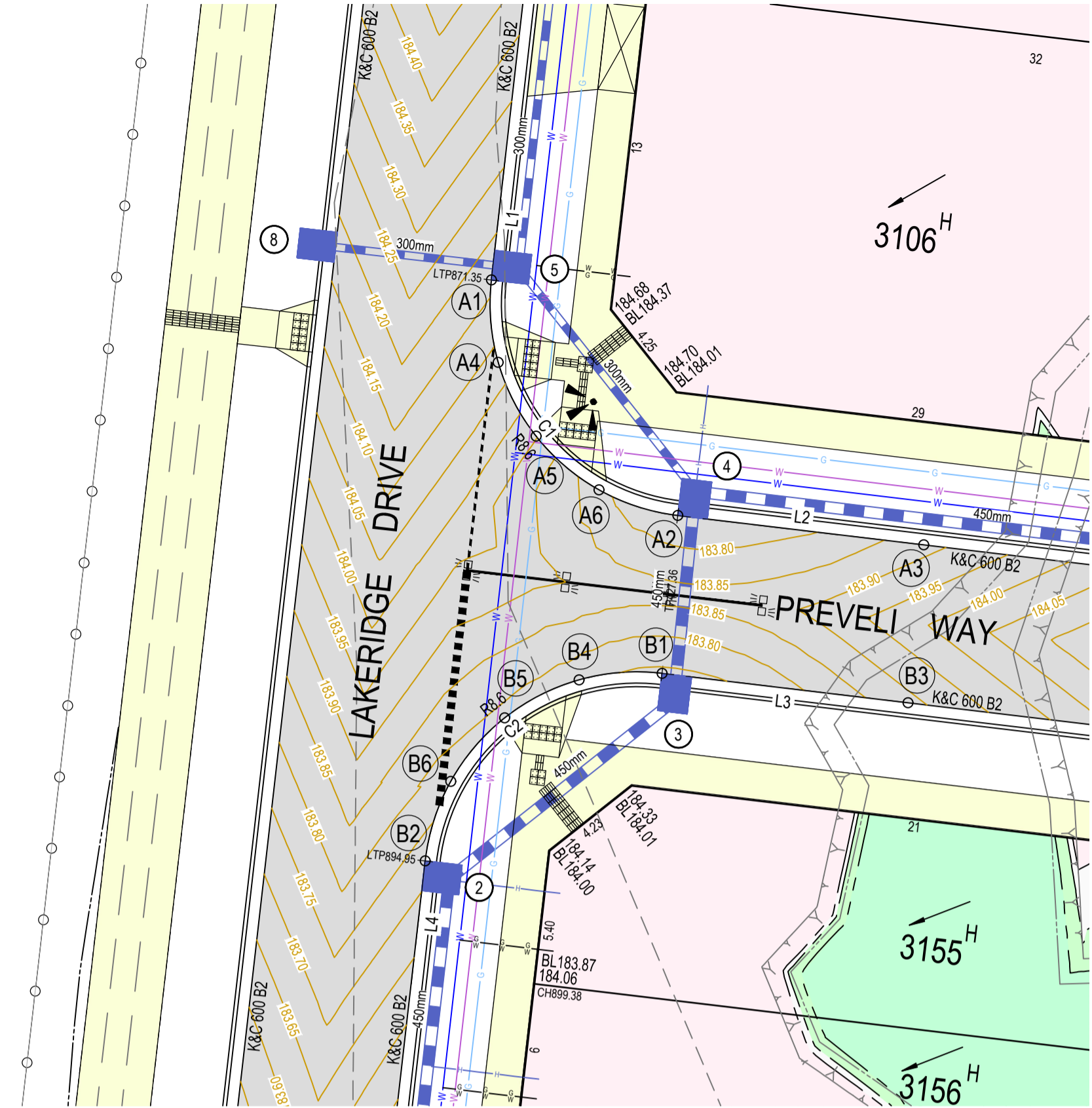
LIP LINE A

ST31 LIP LINE A							SETOUT TABLE			
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length	PT No.	EAST.	NORTH.	LEVEL
L1	IP	-5.000	321853.812	5836573.395	5.000	-	A1	321853.25	5836568.43	184.164
	IP	0.000	321853.246	5836568.427	-	-	A2	321860.77	5836558.91	183.757
C1	TP	0.000	321853.246	5836568.427	13.464	8.6	A3	321870.70	5836557.73	183.882
	TP	13.464	321860.773	5836559.927	-	-	A4	321853.52	5836565.09	184.080
L2	IP	13.464	321860.773	5836558.914	10.000	-	A5	321855.05	5836562.12	183.953
	IP	23.464	321870.703	5836557.731	-	-	A6	321857.59	5836559.95	183.816



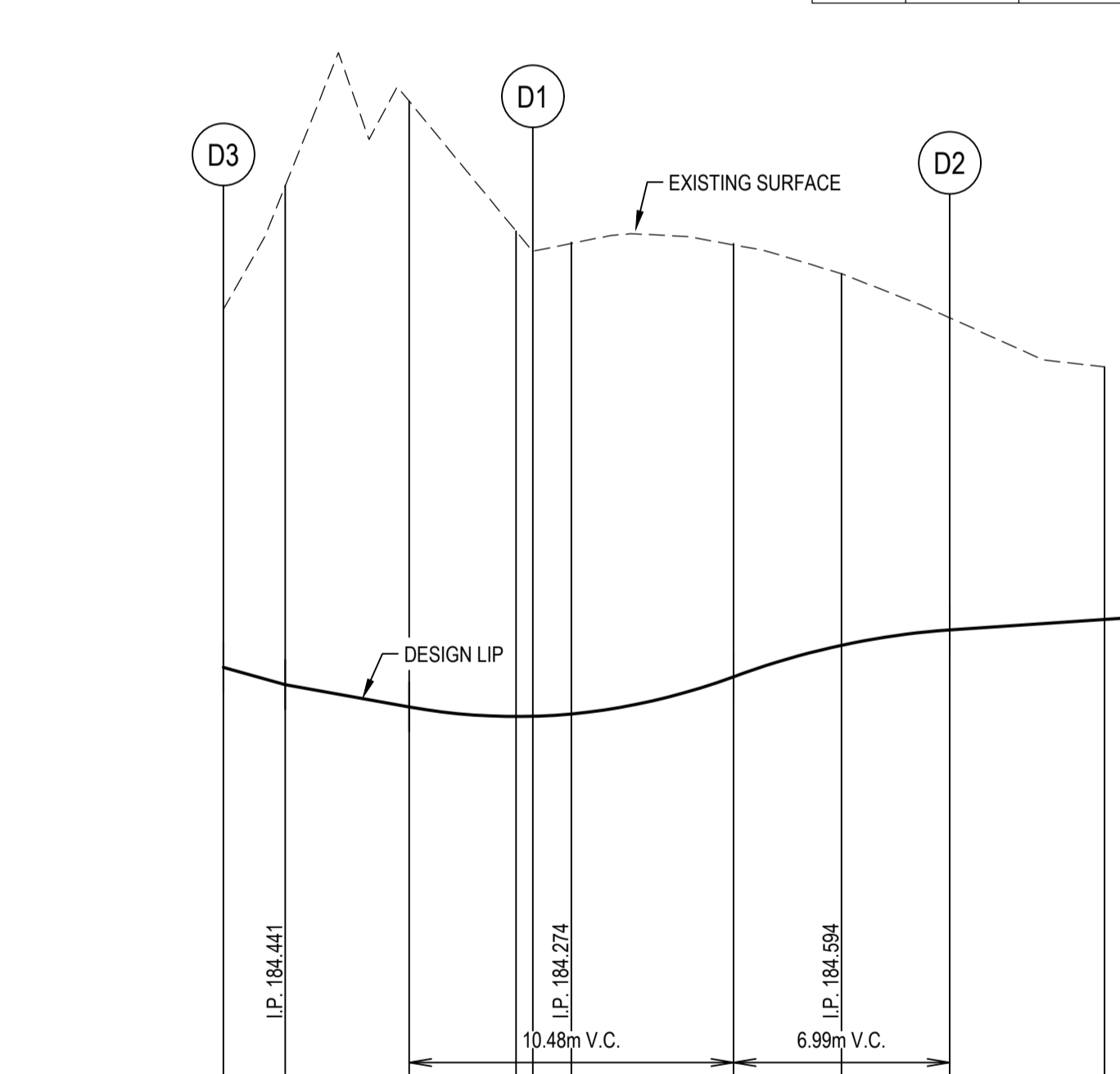
LIP LINE B

ST31 LIP LINE B							SETOUT TABLE			
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length	PT No.	EAST.	NORTH.	LEVEL
L3	IP	-10.000	321870.066	5836551.362	10.000	-	B1	321860.14	5836552.55	183.739
	IP	0.000	321860.137	5836552.545	-	-	B2	321850.57	5836544.98	183.723
C2	TP	0.000	321860.137	5836552.545	13.554	8.6	B3	321870.07	5836551.36	183.885
	TP	8.645	321851.552	5836553.568	-	-	B4	321856.78	5836552.28	183.768
L4	IP	13.554	321850.574	5836544.978	5.000	-	B5	321853.78	5836550.75	183.786
	IP	18.554	321850.009	5836540.011	-	-	B6	321851.60	5836548.18	183.770



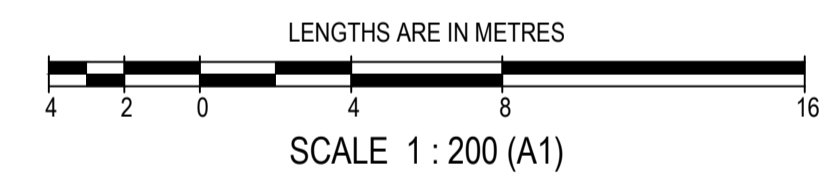
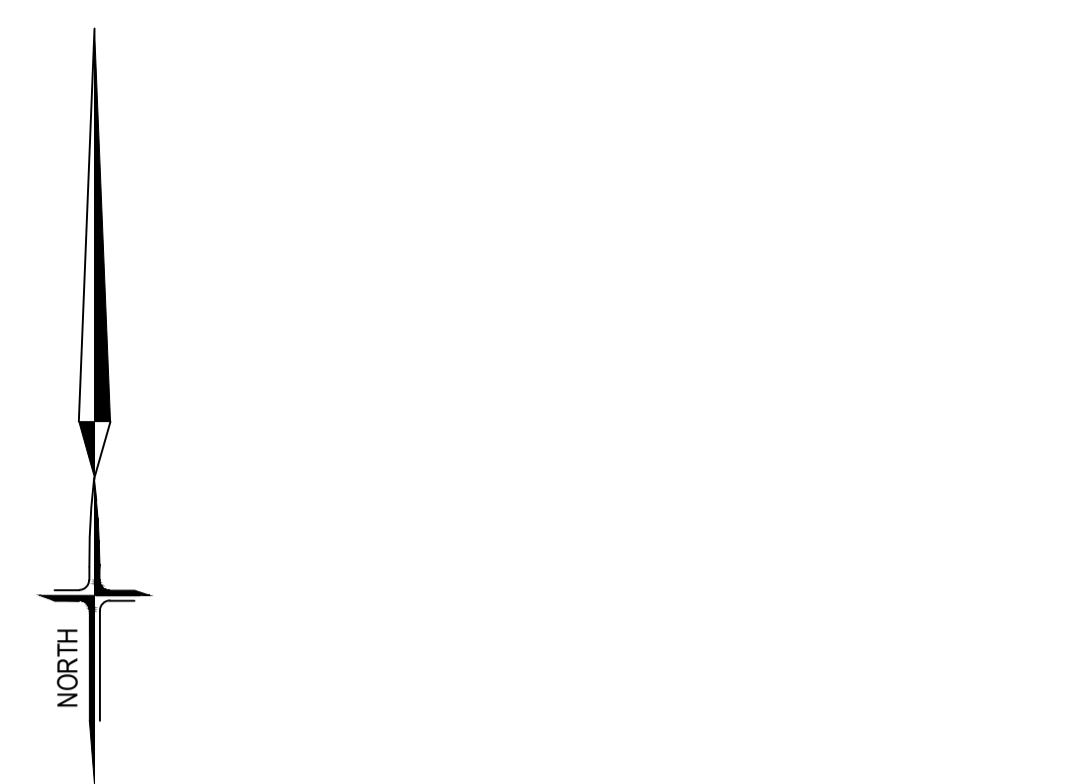
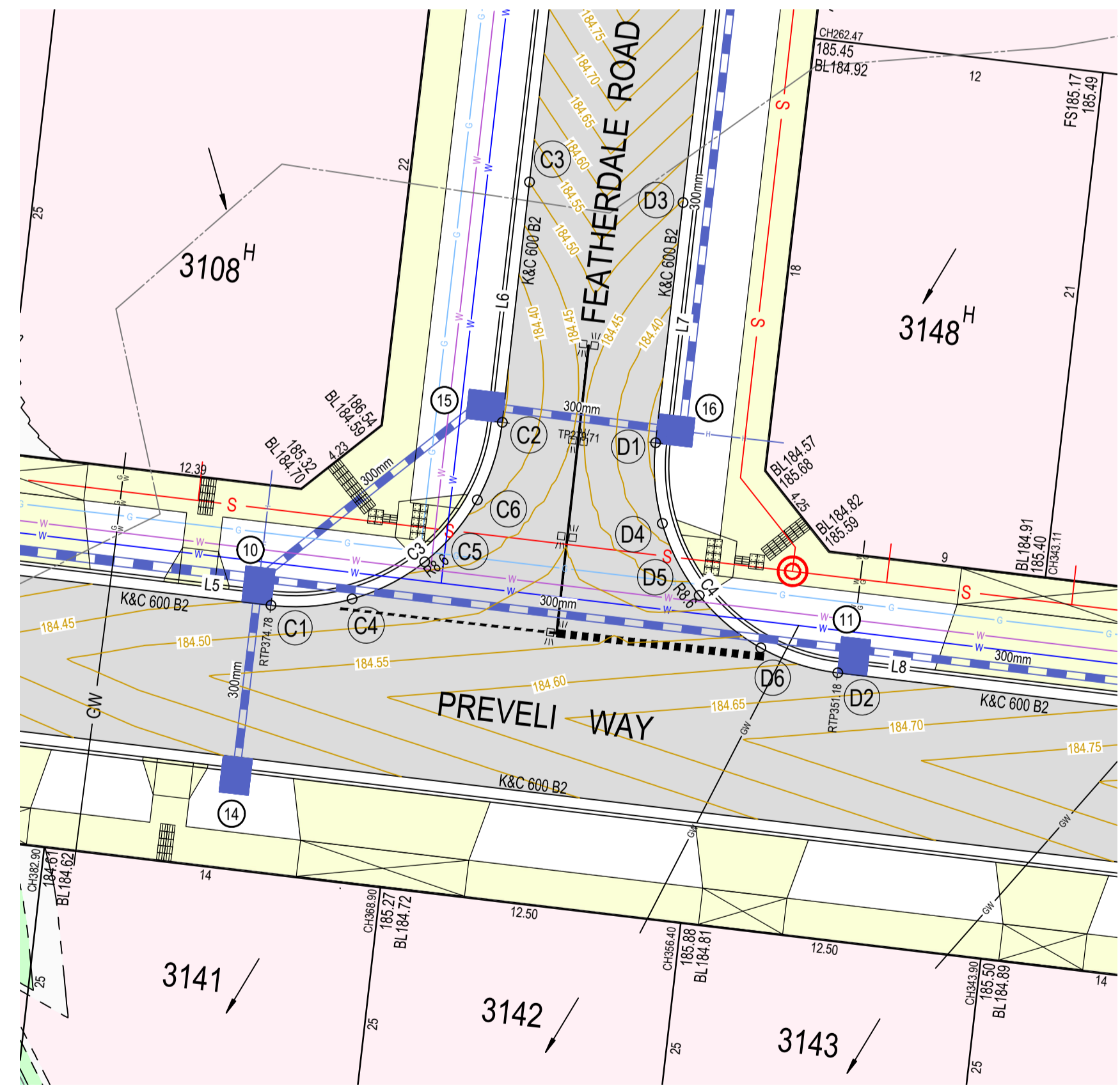
LIP LINE C

ST31 LIP LINE C							SETOUT TABLE			
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length	PT No.	EAST.	NORTH.	LEVEL
L5	IP	-5.000	321908.011	5836553.285	5.000	-	C1	321912.98	5836552.69	184.458
	IP	0.000	321912.976	5836552.694	-	-	C2	321922.54	5836560.26	184.349
C3	TP	0.000	321912.976	5836552.694	13.554	8.6	C3	321923.67	5836570.20	184.500
	TP	8.645	321921.561	5836551.671	-	-	C4	321916.33	5836552.96	184.465
L6	IP	13.554	321922.539	5836560.260	10.000	-	C5	321919.33	5836554.49	184.441
	IP	23.554	321923.670	5836570.196	-	-	C6	321921.51	5836557.05	184.387



LIP LINE D

ST31 LIP LINE D							SETOUT TABLE			
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length	PT No.	EAST.	NORTH.	LEVEL
L7	IP	-10.000	321930.015	5836569.349	10.000	-	D1	321928.88	5836559.41	184.338
	IP	0.000	321928.884	5836559.413	-	-	D2	321936.41	5836549.90	184.617
C4	TP	0.000	321928.884	5836559.413	13.464	8.6	D3	321930.01	5836569.35	184.497
	TP	8.555	321927.916	5836550.913	-	-	D4	321929.16	5836556.08	184.378
L8	IP	13.464	321936.411	5836549.901	5.000	-	D5	321930.68	5836553.10	184.475
	IP	18.464	321941.376	5836549.309	-	-	D6	321933.23	5836550.93	184.570



**WARNING**  
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**SYMBOL LEGEND**

Prop	Prev Stage	Ex/Natural/FS Level	+28.57
S	S	FS @ Building Line	+BL28.57
S	S	Top/Toe of Batter	+TOP28.57
W	W	Top Ret. Wall Level	+TW28.57
H	H	100yr Flood Level	+FL28.57
Property Inlet	Street Sign	Fill Proposed (<0.3m/±0.3m)	
Street Sign	PSM	Cut Proposed	
Rock Ret Wall	Sleeper Ret Wall	Asphalt Surface Prop	
Conduits 50mm	Conduits 100mm	Concrete Surface Prop (Paths/Driveways/Slabs)	
Street Tree without/with Passive Irrigation (Refer Detail)	Tree To Be Removed	Tree To Be Retained with Tree Protection Zone (TPZ)	
Ex Drains	Ex Water DW/NDW	Ex Sewer/Gas	Ex Elect/Comm

**KERB LIP PROFILES**  
SCALE A1 - 1:200H 1:20V

**breese pitt dixon pty. ltd.**  
land surveyors civil engineers

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

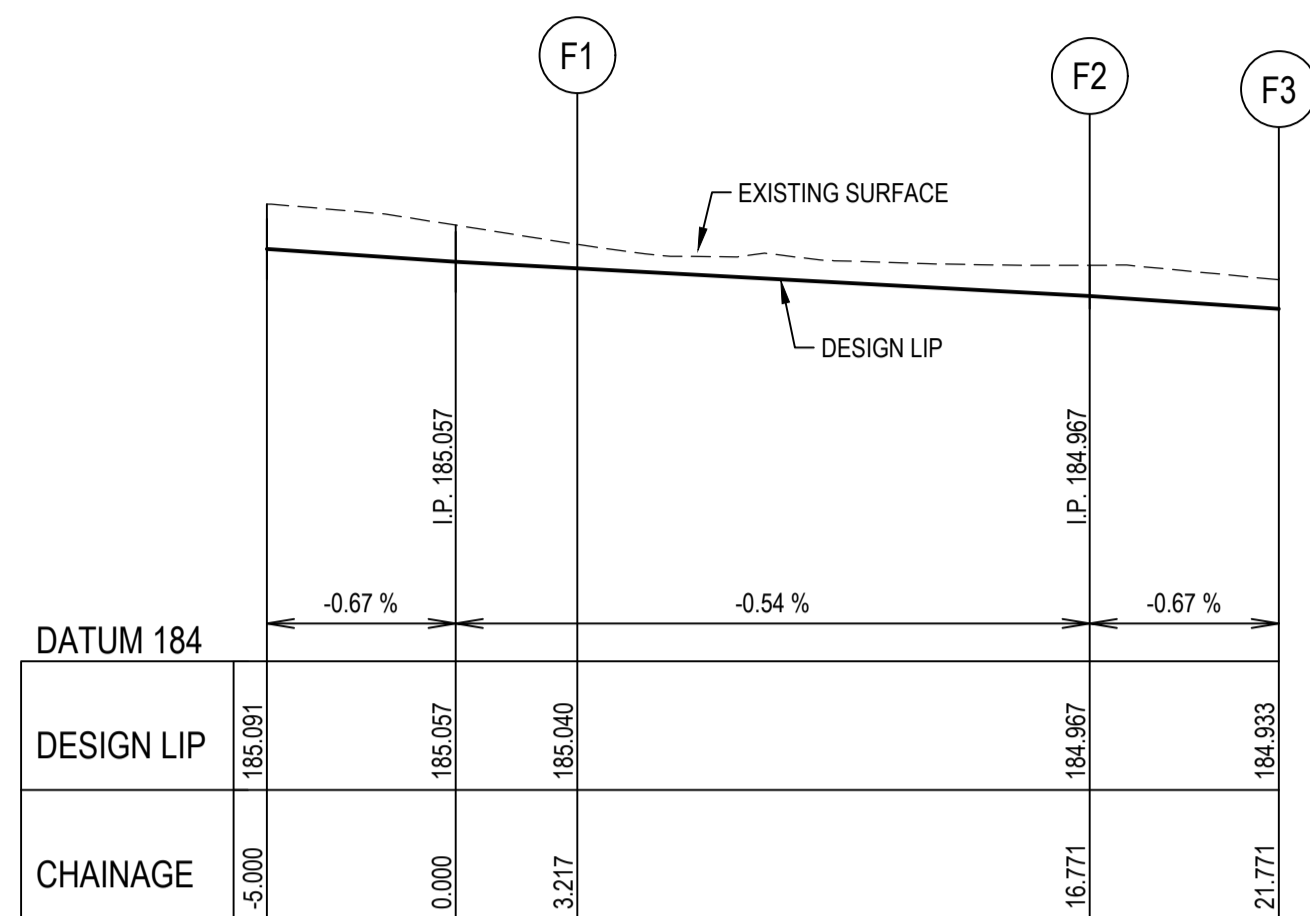
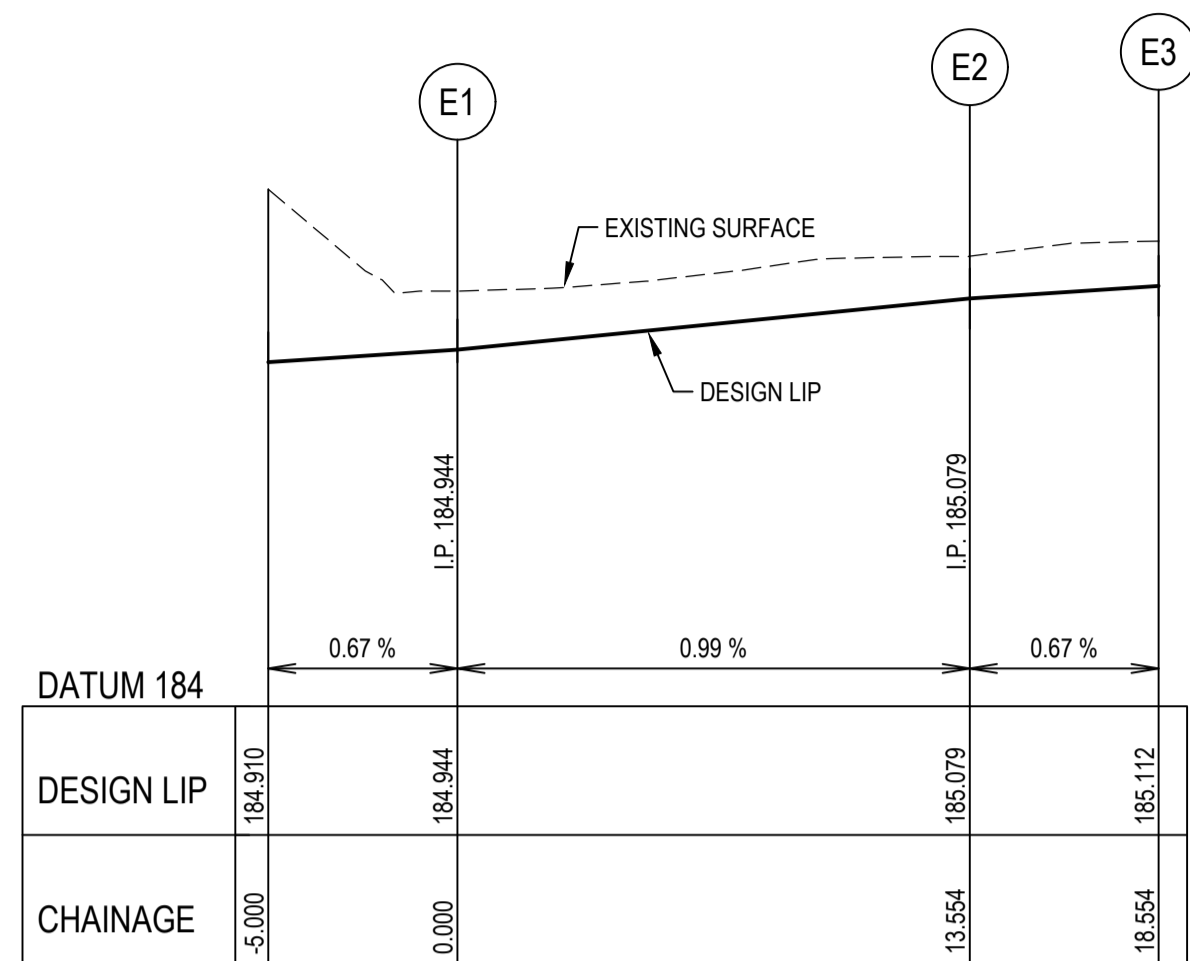
**RATHDOWNE ESTATE  
STAGE 31**

**INTERSECTION DETAILS - SHEET 1**

MUNICIPALITY  
**WHITTLESEA**

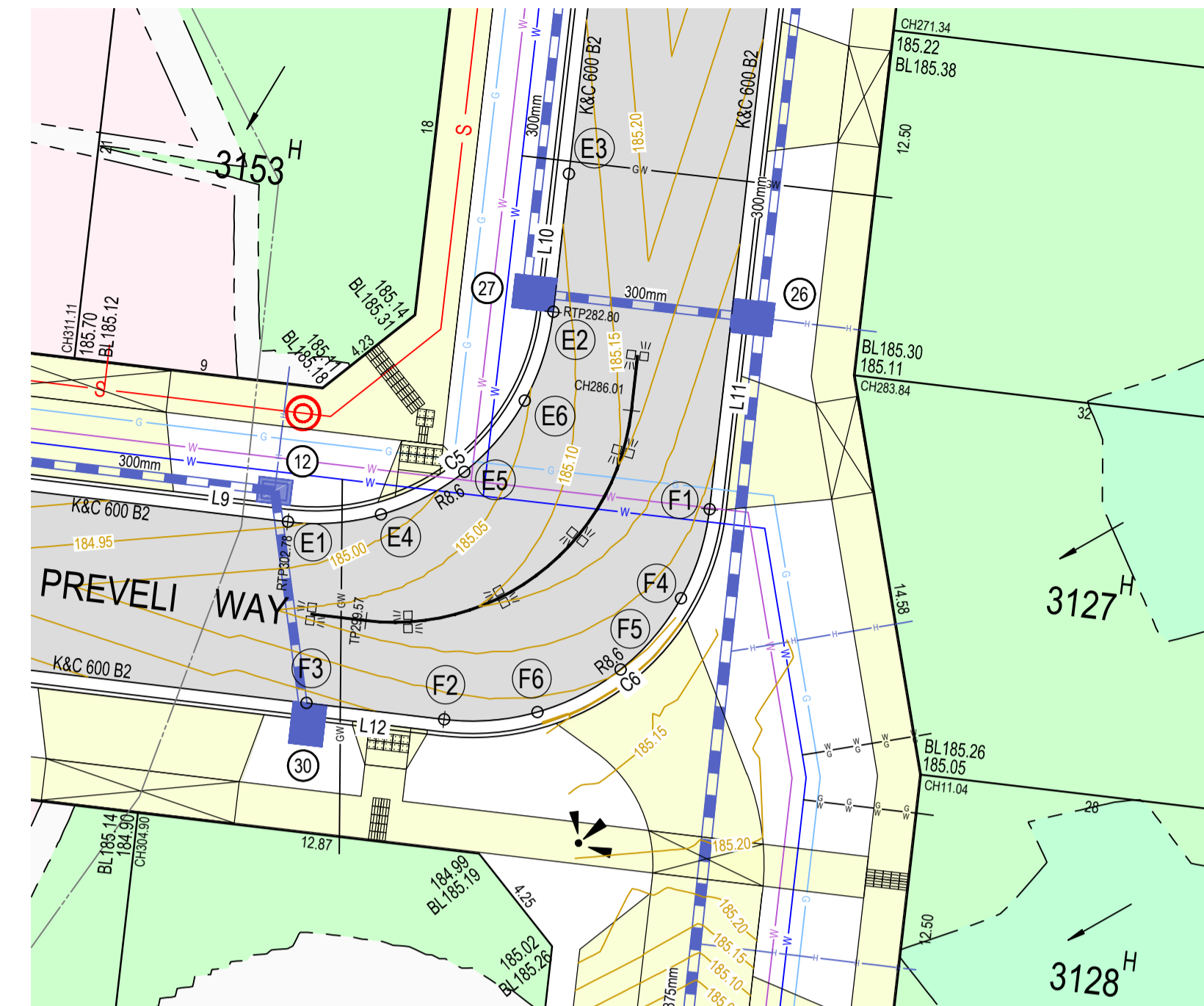
REFERENCE  
**9365 E/31**

AMENDMENTS	MELWAY REF.	DESIGN	SCALE	AS SHOWN	DATUM	AHD	DATE	Aug 23	SHEET	4 OF 18	A
A	25/08/23	ISSUE FOR CONSTRUCTION	DRAWN	M.T.	CHECKED	R.Gould-Williams	DATE	Aug 23	SHEET	4 OF 18	A

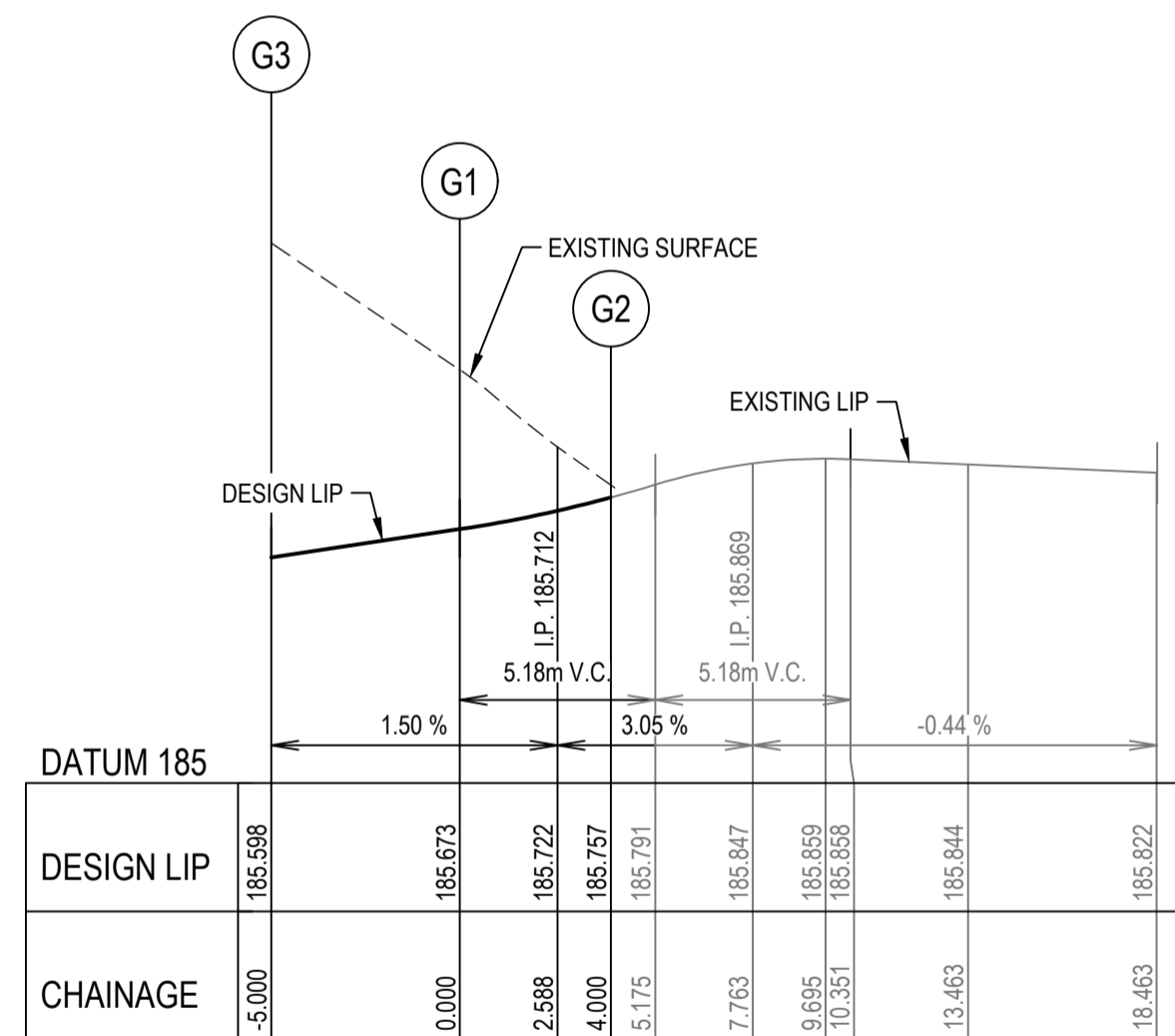


ST31 LIP LINE E							SETOUT TABLE			
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length	PT No.	EAST.	NORTH.	LEVEL
L9	IP	-5.000	321979.506	5836544.765	5.000	-	E1	321984.47	5836544.17	184.944
	IP	0.000	321984.471	5836544.174	-	-	E2	321994.03	5836551.74	185.078
C5	TP	0.000	321984.471	5836544.174	13.554	8.6	E3	321994.60	5836556.71	185.112
	IP	8.645	321993.056	5836543.151	-	-	E4	321987.83	5836544.44	184.978
	TP	13.554	321994.034	5836551.740	-	-	E5	321990.83	5836545.97	185.011
L10	IP	13.554	321994.034	5836551.740	5.000	-	E6	321993.01	5836548.53	185.045
	IP	18.554	321994.599	5836556.708	-	-	-	-	-	-

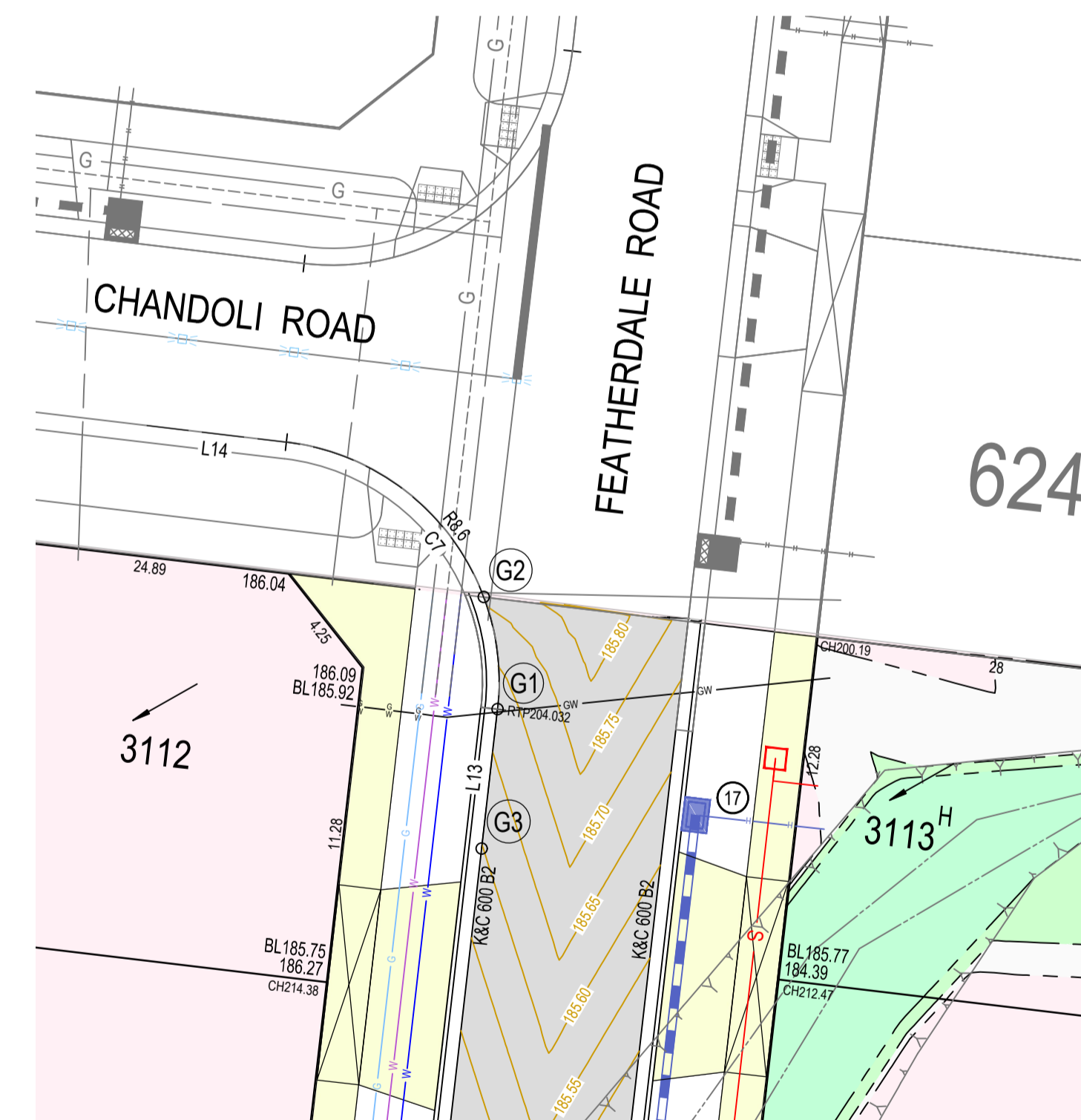
ST31 LIP LINE F							SETOUT TABLE			
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length	PT No.	EAST.	NORTH.	LEVEL
L11	IP	-5.000	322000.594	5836552.788	8.217	-	F1	321999.66	5836544.62	185.040
	IP	3.217	321999.665	5836544.624	-	-	F2	321990.10	5836537.06	184.967
C6	TP	3.217	321999.665	5836544.624	13.554	8.6	F3	321985.14	5836537.65	184.933
	IP	11.862	321998.687	5836536.034	-	-	F4	321998.64	5836541.42	185.021
	TP	16.771	321990.102	5836537.057	-	-	F5	321996.46	5836538.85	185.003
L12	IP	16.771	321990.102	5836537.057	5.000	-	F6	321993.46	5836537.32	184.985
	IP	21.771	321985.137	5836537.649	-	-	-	-	-	-



INTERSECTION DETAILS PLAN  
SCALE A1 - 1 : 200

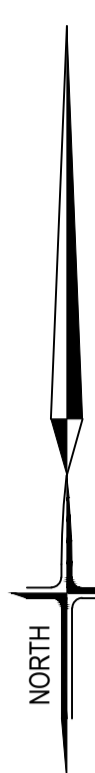
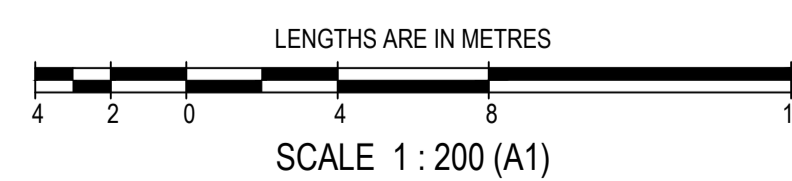


ST31 LIP LINE G						
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length
L13	IP	-5.000	321930.535	5836630.488	5.000	-
	IP	0.000	321931.101	5836635.456	-	-
C7	TP	0.000	321931.101	5836635.456	13.463	8.6
	IP	8.555	321932.068	5836643.956	-	-
	TP	13.463	321923.574	5836644.968	-	-
L14	IP	13.463	321923.574	5836644.968	5.000	-
	IP	18.463	321918.609	5836645.560	-	-



INTERSECTION DETAILS PLAN  
SCALE A1 - 1 : 200

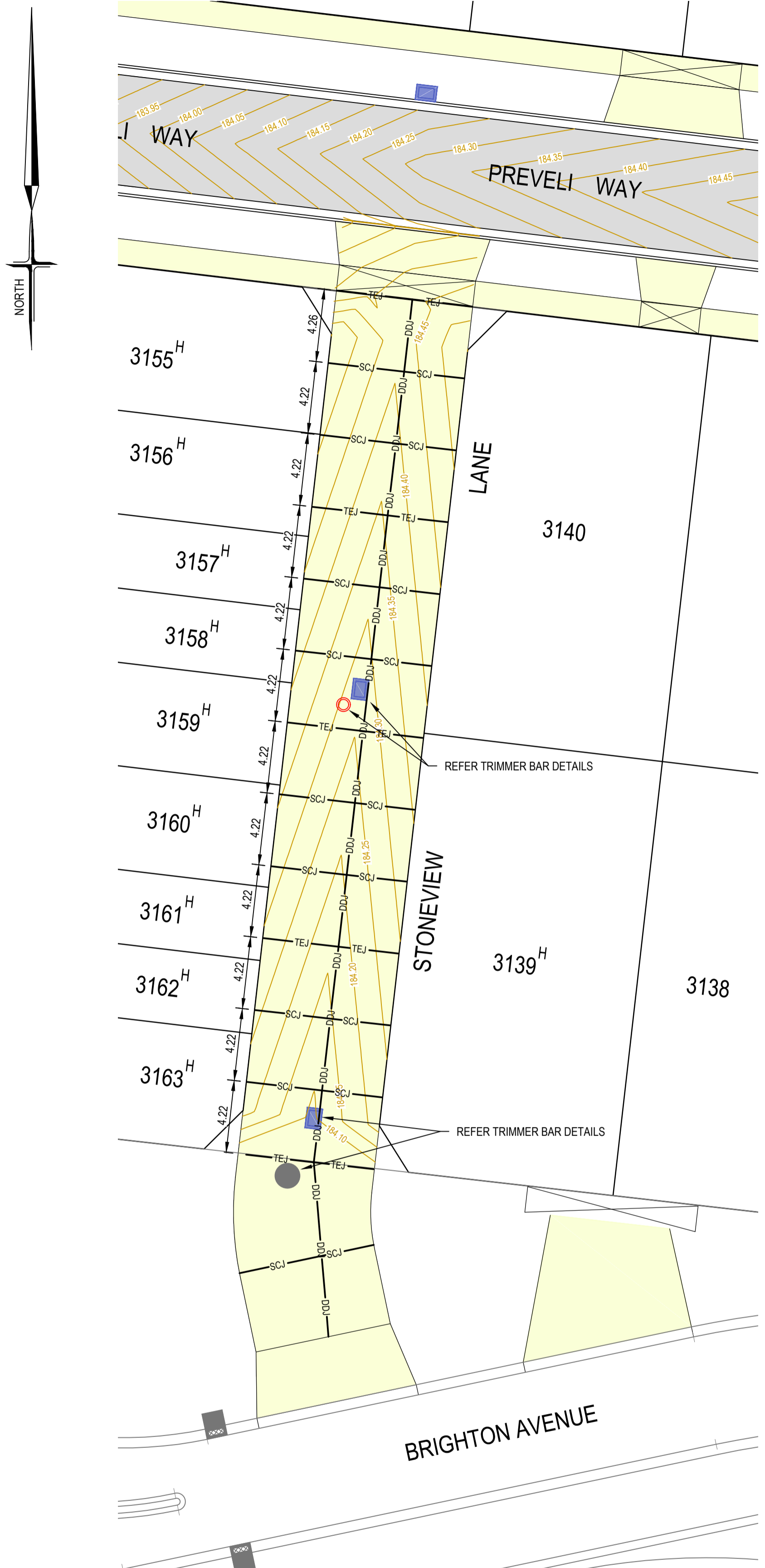
KERB LIP PROFILES  
SCALE A1 - 1:200H 1:20V



**WARNING**  
BEWARE OF UNDERGROUND SERVICES  
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SYMBOL LEGEND		SYMBOL LEGEND	
Prop	Prop Stage	Ex/Natural/FS Level	+28.57 +NS28.57 +FS28.57
Drains	Sewer < 3000	FS @ Building Line	+BL28.57
Water (DW)	Water (DW)	Top/Toe of Batter	+TOP28.57 +TOE28.57
Water (NDW)	House Drain	Top Ret. Wall Level	+TW28.57
Property Inlet	Street Sign	100yr Flood Level	+FL28.57
Street Sign	PSM	Fill Proposed (<0.3m/±0.3m)	
Rock Ret Wall	Sleeper Ret Wall	Cut Proposed	
Conduits 50mm	Conduits 100mm	Asphalt Surface Prop	
Street Tree without/with	Passive Irrigation (Refer Detail)	Concrete Surface Prop (Paths/Driveways/Slabs)	
Tree To Be Removed		Tree To Be Retained with Tree Protection Zone (TPZ)	

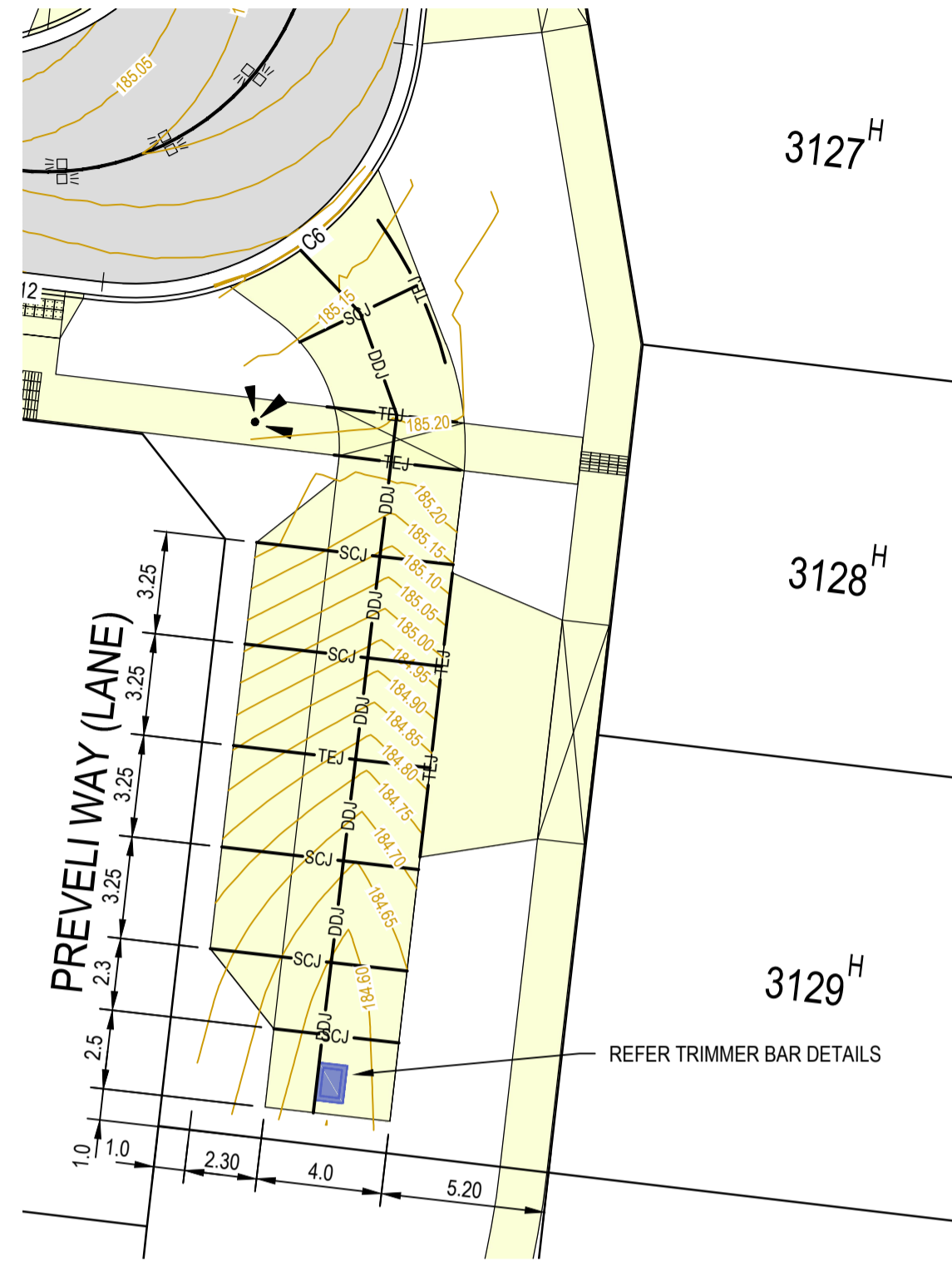
AMENDMENTS		brees pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310		
MELWAY REF.	-	RATHDOWNE ESTATE STAGE 31		MUNICIPALITY WHITTLESEA		
SURVEY	B.P.D.	INTERSECTION DETAILS - SHEET 2		REFERENCE 9365 E/31		
DESIGN	B.P.D.	DRAWN	M.T.	SCALE	AS SHOWN	
DATE	25/08/23	ISSUE FOR CONSTRUCTION	CHECKED	R.Gould-Williams	DATUM	AHD
REMARKS		DATE	Aug 23	SHEET	5 OF 18	



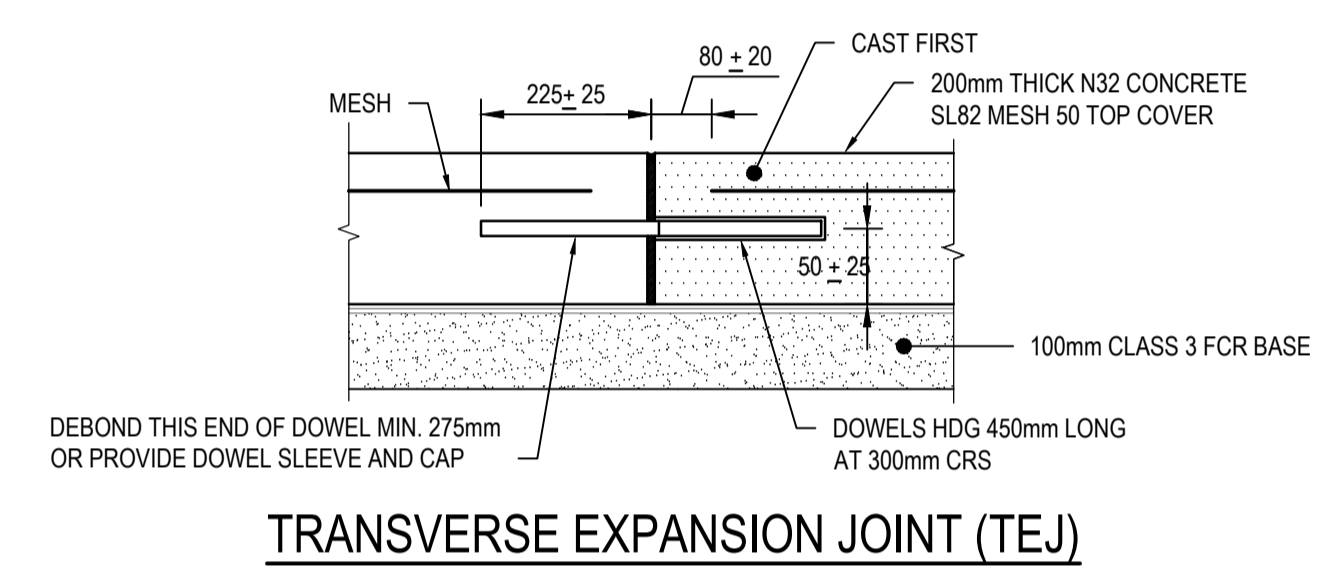
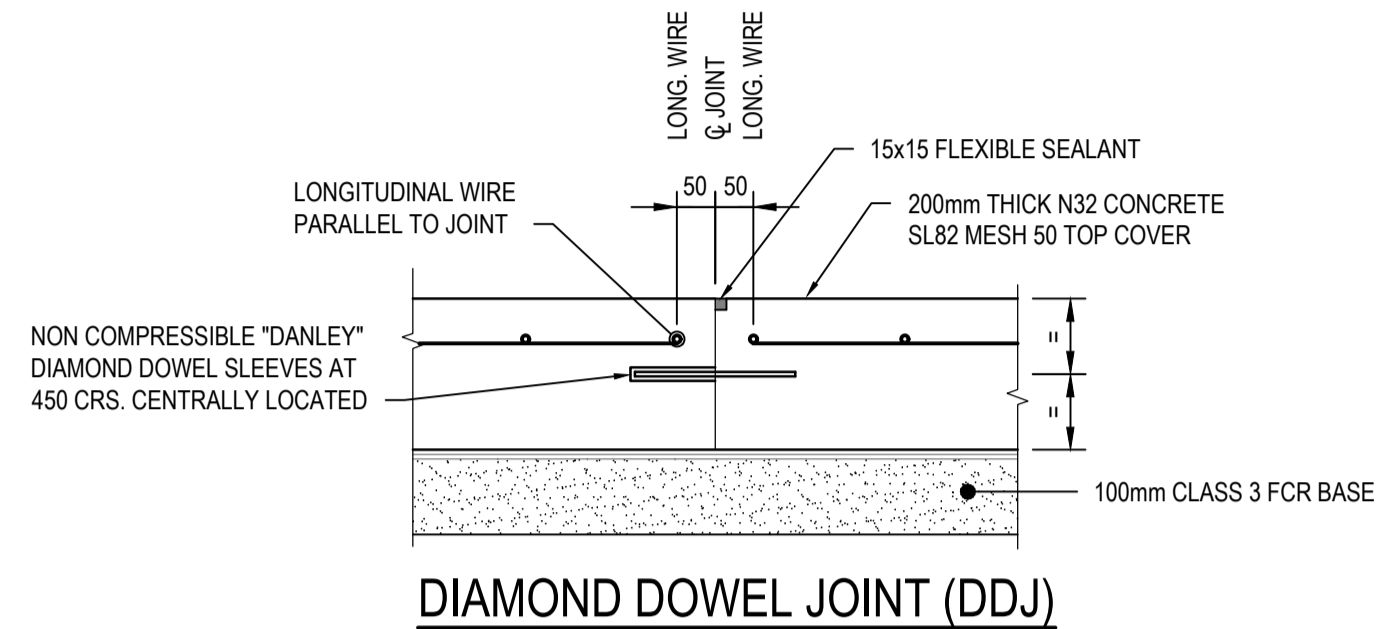
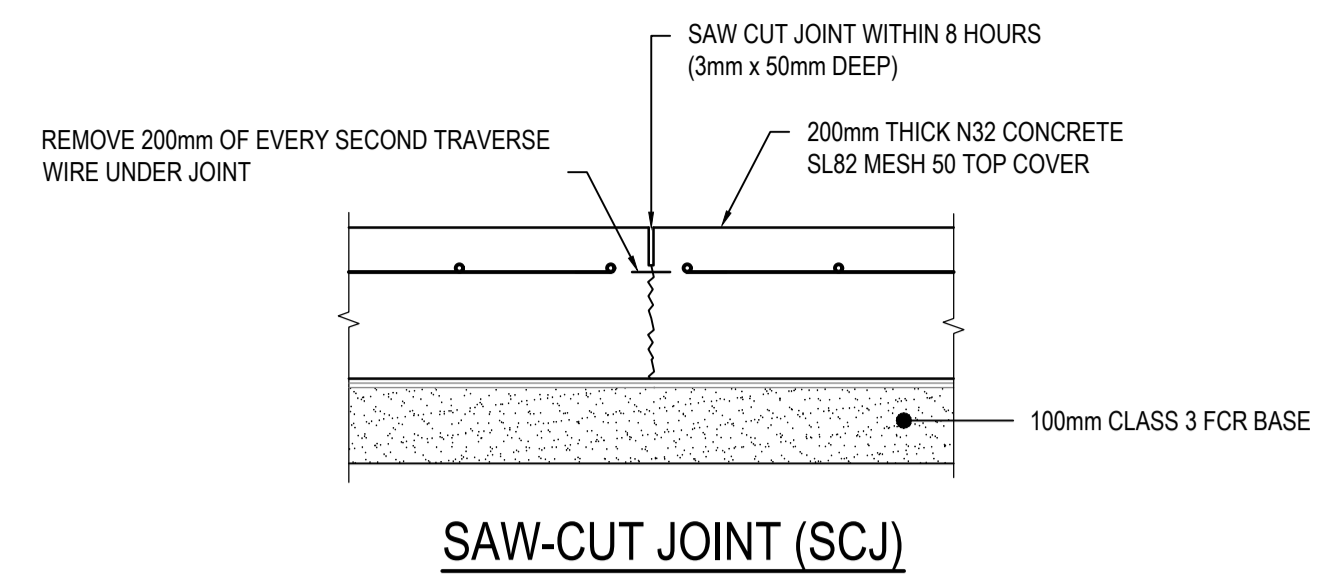
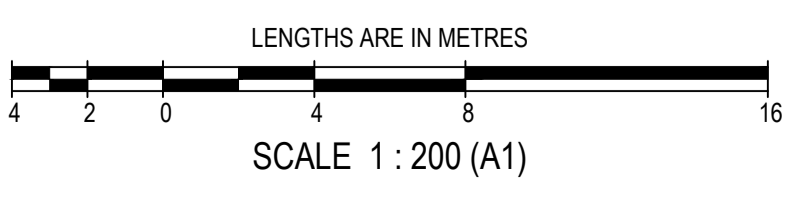
**CONCRETE JOINTING PLAN**  
SCALE A1 - 1 : 200

**LEGEND - CONCRETE JOINTS**

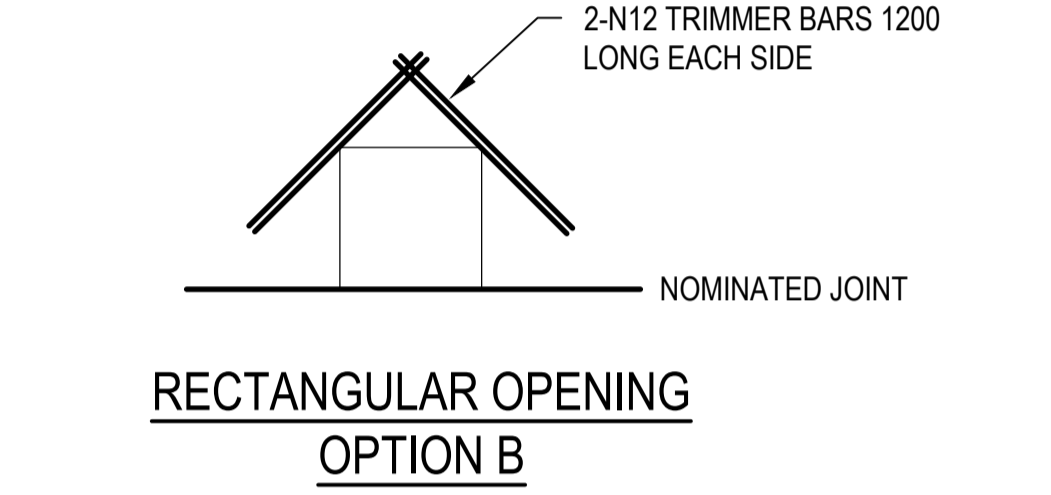
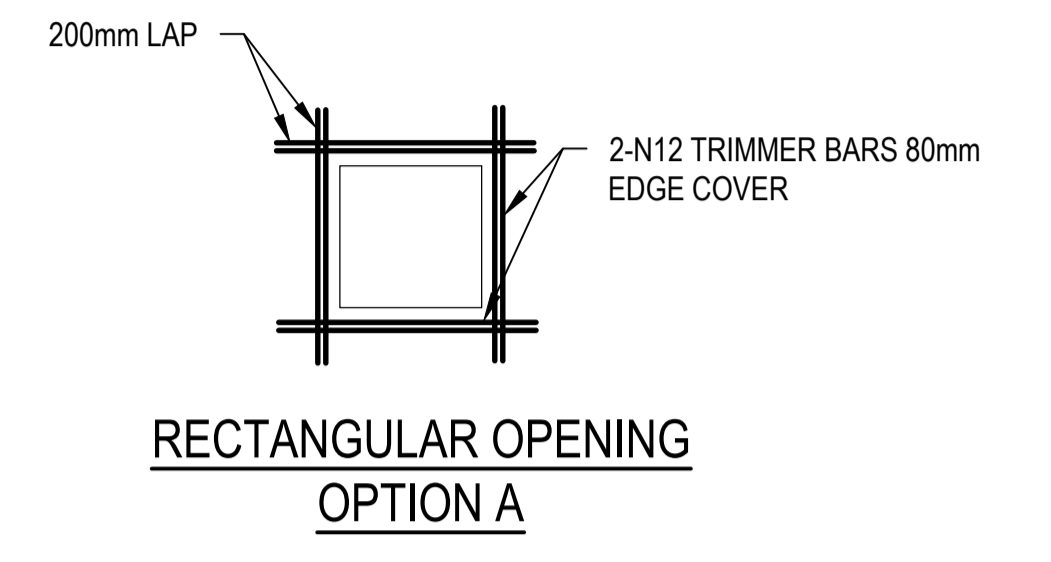
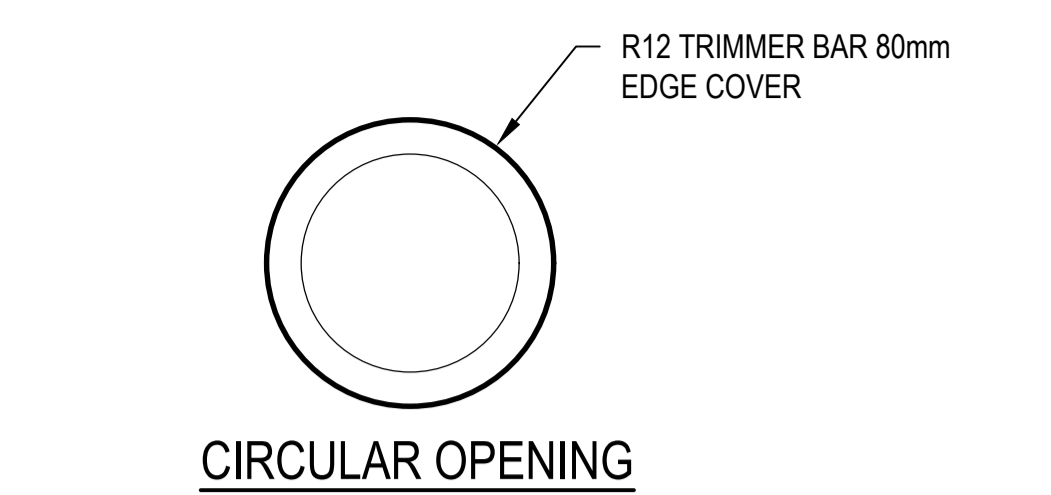
— DDJ — DDJ —	DIAMOND DOWEL JOINT
— SCJ — SCJ —	SAW CUT JOINT
— TEJ — TEJ —	TRANSVERSE EXPANSION JOINT



**CONCRETE JOINTING PLAN**  
SCALE A1 - 1 : 200



**JOINT DETAILS**  
SCALE A1 - 1:10



**TRIMMER DETAILS**  
SCALE A1 - N.T.S

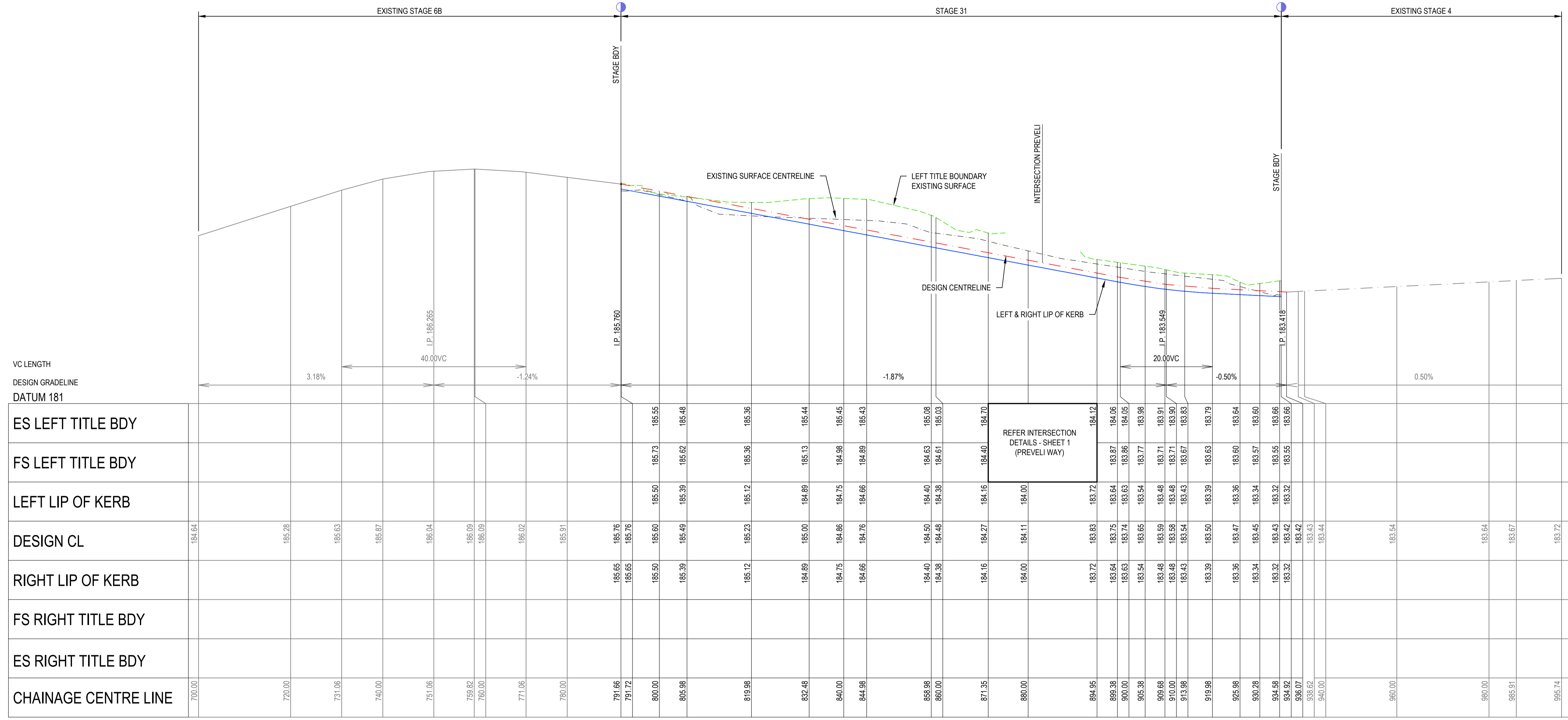
**WARNING**  
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**SYMBOL LEGEND**

Drains	Prop	Prev Stage	Ex/Natural/FS Level	+28.57	+1528.57
Sewer < 3000	S	S	FS @ Building Line	+28.28.57	+F508.57
Sewer ≥ 3000	S	S	Top/Toe of Batter	+10P28.57	+10E28.57
Water (DW)	W	W	Top Ret. Wall Level	+TW28.57	
Water (NDW)	W	W	100yr Flood Level	+FL28.57	
House Drain	H	H	Fill Proposed (<0.3m/≥0.3m)		
Property Inlet	P	P	Cut Proposed		
Street Sign	S	S	Asphalt Surface Prop		
PSM	PSM	PSM	Concrete Surface Prop		
Rock Ret Wall	R	R	Concrete Surface Prop (Paths/Driveways/Slabs)		
Sleeper Ret Wall	S	S	Tree To Be Removed		
Conduits 50mm	GW	GW	Tree To Be Retained with Tree Protection Zone (TPZ)		
Conduits 100mm	W100	W100			
Street Tree without/with Passive Irrigation (Refer Detail)	T	T			
Ex Drains	Ex D	Ex D			
Ex Water DW/NDW	Ex W	Ex W			
Ex Sewer/Gas	Ex S	Ex S			
Ex Elect/Comm	Ex E	Ex E			

<p><b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers</p>		<p>1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310</p>	
<p>MELWAY REF. - SURVEY B.P.D. DESIGN B.P.D. DRAWN M.T. CHECKED R.Gould-Williams</p>		<p><b>RATHDOWNE ESTATE</b> <b>STAGE 31</b> <b>INTERSECTION DETAILS - SHEET 3</b></p>	
<p>MUNICIPALITY <b>WHITTLESEA</b></p>		<p>REFERENCE <b>9365 E/31</b></p>	
<p>AMENDMENTS</p>		<p>SCALE AS SHOWN DATUM AHD DATE Aug 23 SHEET 6 OF 18 A</p>	
<p>A 25/08/23 ISSUE FOR CONSTRUCTION</p>	<p>DATE</p>	<p>REMARKS</p>	<p>DATE</p>

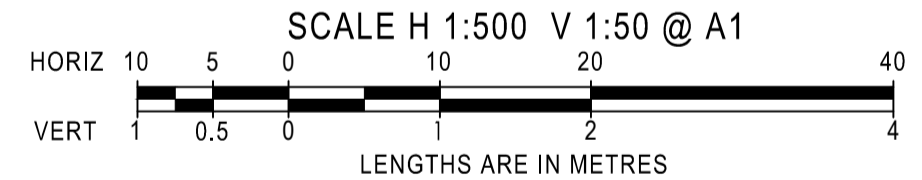
Printed Aug 25, 2023 - 10:51am



VC LENGTH	DESIGN GRADELINE	DATUM 181
ES LEFT TITLE BDY		184.64
FS LEFT TITLE BDY		
LEFT LIP OF KERB		
DESIGN CL		185.28
RIGHT LIP OF KERB		
FS RIGHT TITLE BDY		
ES RIGHT TITLE BDY		
CHAINAGE CENTRE LINE		700.00

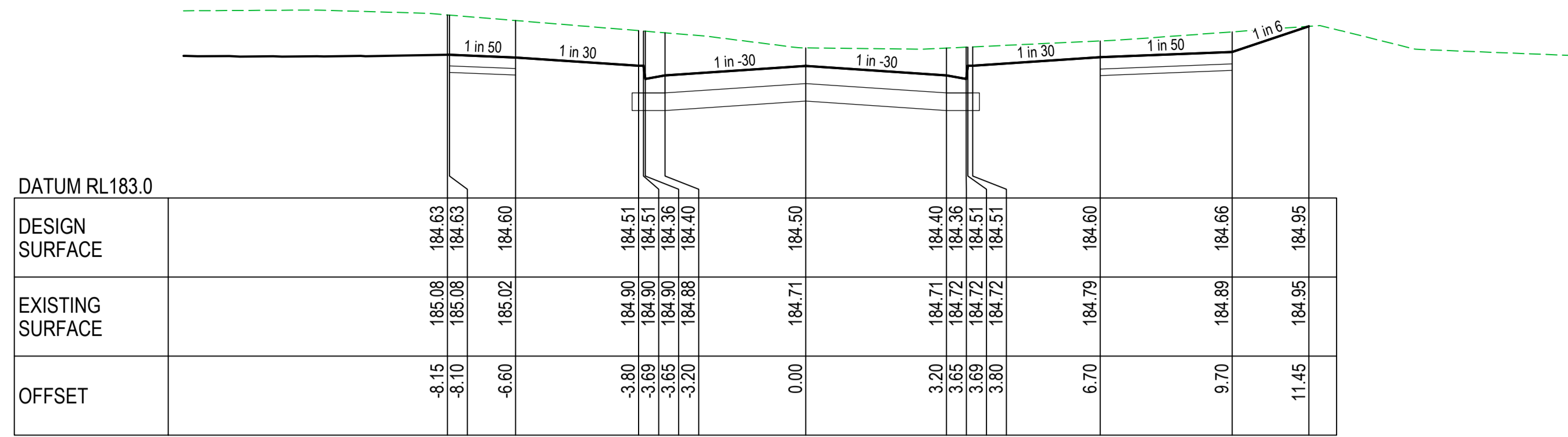
**LAKERIDGE DRIVE  
LONGITUDINAL SECTION**

SCALE A1 - 1:500H 1:50V

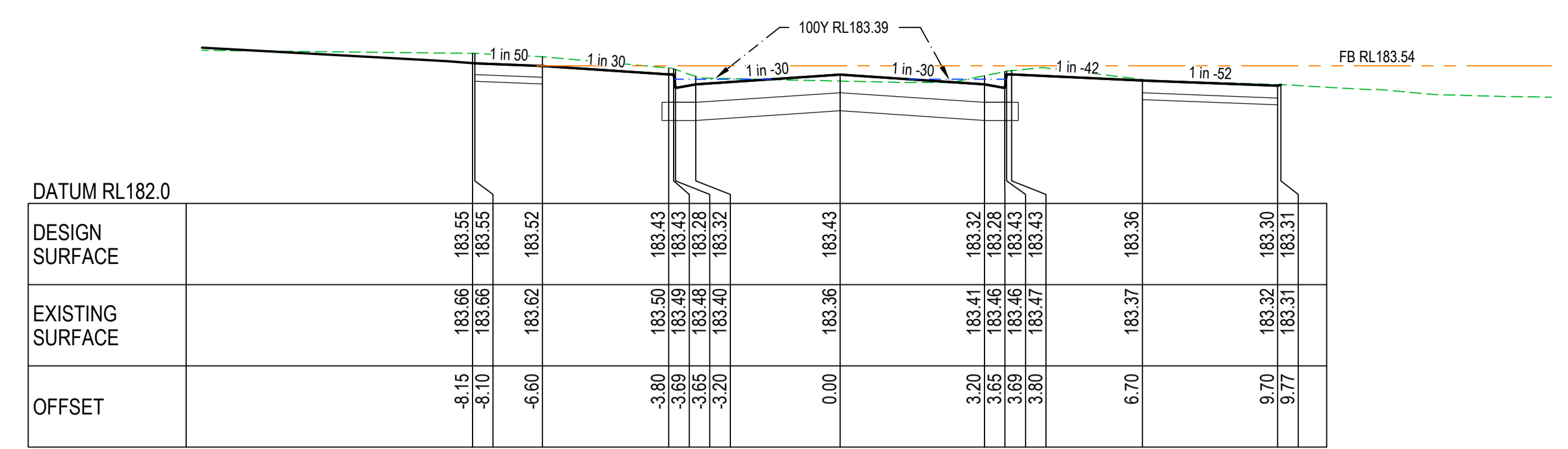


- LEGEND:**
- ES LEFT TITLE BOUNDARY
  - DESIGN CENTRELINE
  - LIP OF KERB
  - ES RIGHT TITLE BOUNDARY
  - ES CENTRELINE

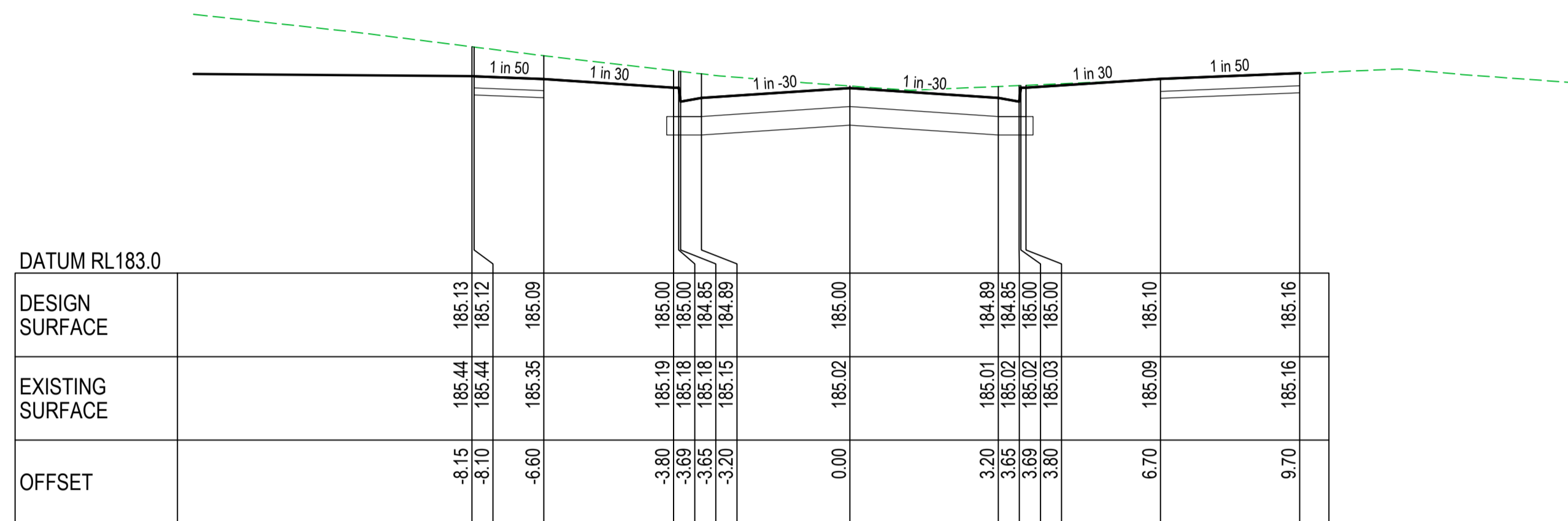
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		MELWAY REF.	-												
SURVEY	B.P.D.														
DESIGN	B.P.D.														
<table border="1"> <tr> <td colspan="2" style="text-align: center;"><b>RATHDOWNE ESTATE</b></td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>STAGE 31</b></td> </tr> <tr> <td colspan="2" style="text-align: center;">LAKERIDGE DRIVE LONGITUDINAL SECTION</td> </tr> </table>		<b>RATHDOWNE ESTATE</b>		<b>STAGE 31</b>		LAKERIDGE DRIVE LONGITUDINAL SECTION									
<b>RATHDOWNE ESTATE</b>															
<b>STAGE 31</b>															
LAKERIDGE DRIVE LONGITUDINAL SECTION															
<table border="1"> <tr> <td>AMENDMENTS</td> <td></td> </tr> <tr> <td>A</td> <td>25/08/23 ISSUE FOR CONSTRUCTION</td> </tr> </table>		AMENDMENTS		A	25/08/23 ISSUE FOR CONSTRUCTION	<table border="1"> <tr> <td>REFERENCE</td> <td>9365 E/31</td> </tr> </table>		REFERENCE	9365 E/31						
AMENDMENTS															
A	25/08/23 ISSUE FOR CONSTRUCTION														
REFERENCE	9365 E/31														
<table border="1"> <tr> <td>DATE</td> <td>REMARKS</td> </tr> <tr> <td>VER</td> <td></td> </tr> </table>		DATE	REMARKS	VER		<table border="1"> <tr> <td>CHECKED R.Gould-Williams</td> <td>SCALE AS SHOWN</td> <td>DATUM AHD</td> <td>DATE Aug 23</td> </tr> <tr> <td></td> <td></td> <td></td> <td>SHEET 7 OF 18</td> </tr> </table>		CHECKED R.Gould-Williams	SCALE AS SHOWN	DATUM AHD	DATE Aug 23				SHEET 7 OF 18
DATE	REMARKS														
VER															
CHECKED R.Gould-Williams	SCALE AS SHOWN	DATUM AHD	DATE Aug 23												
			SHEET 7 OF 18												



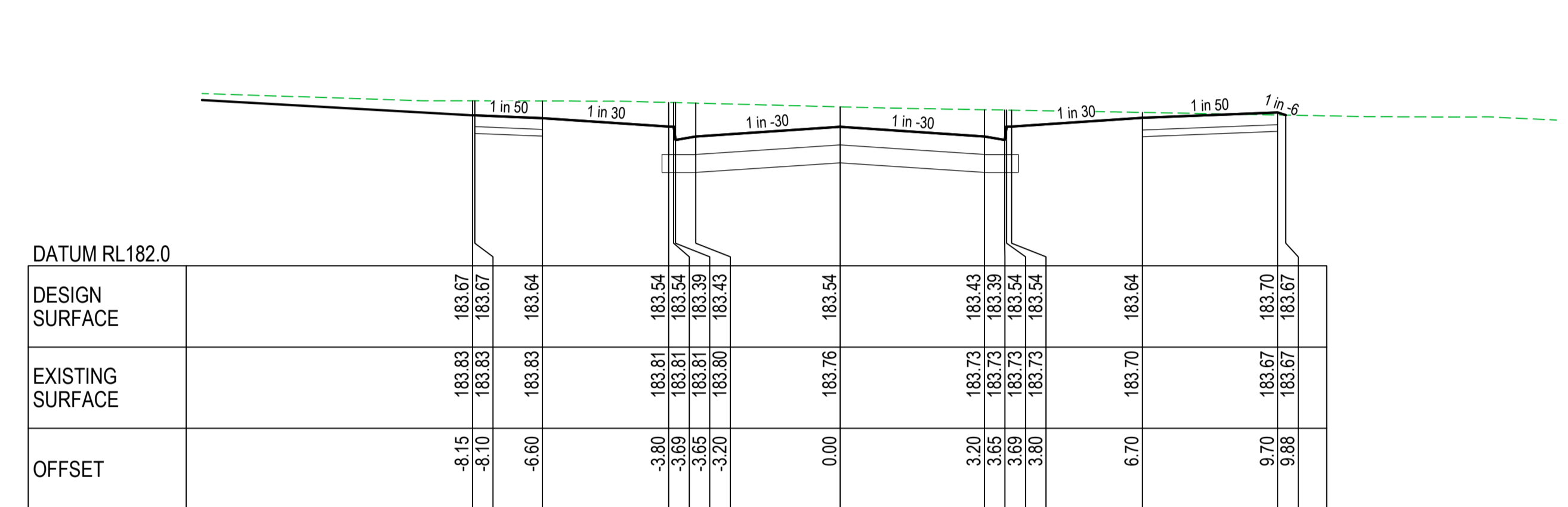
CH 858.98



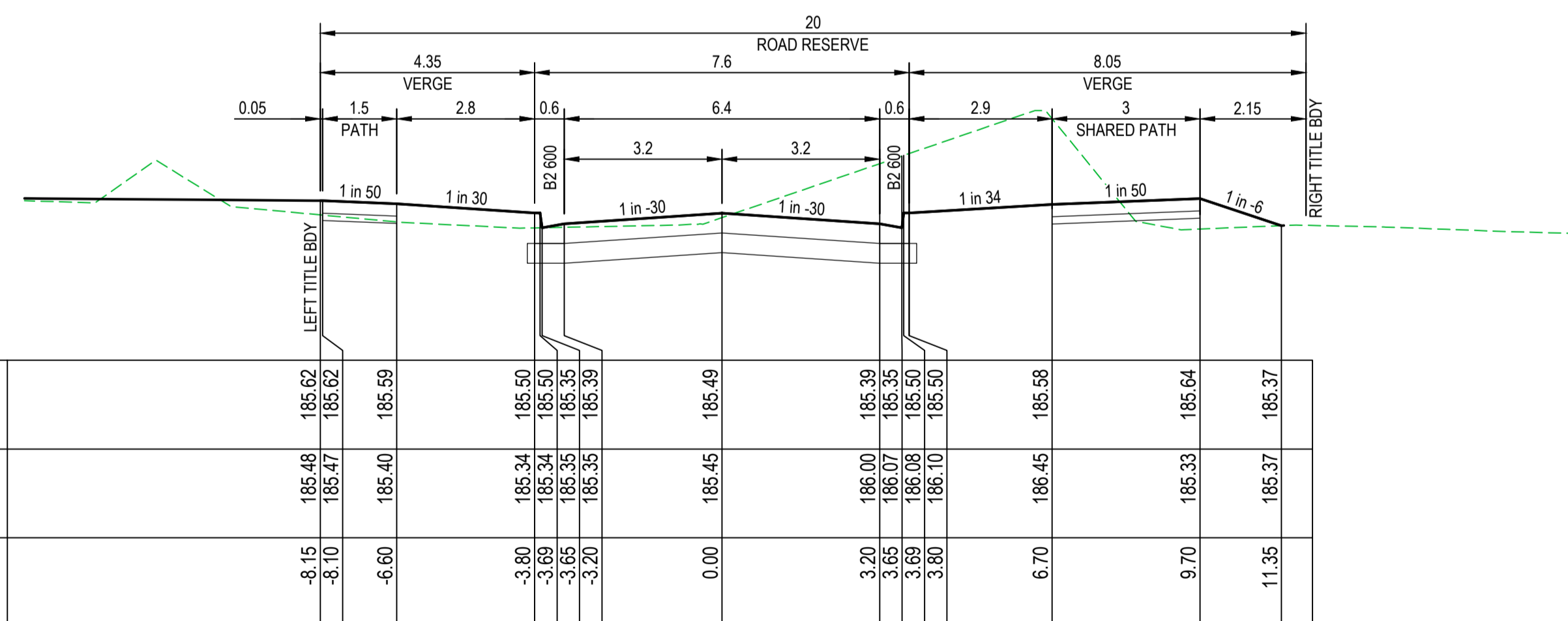
CH 934.58



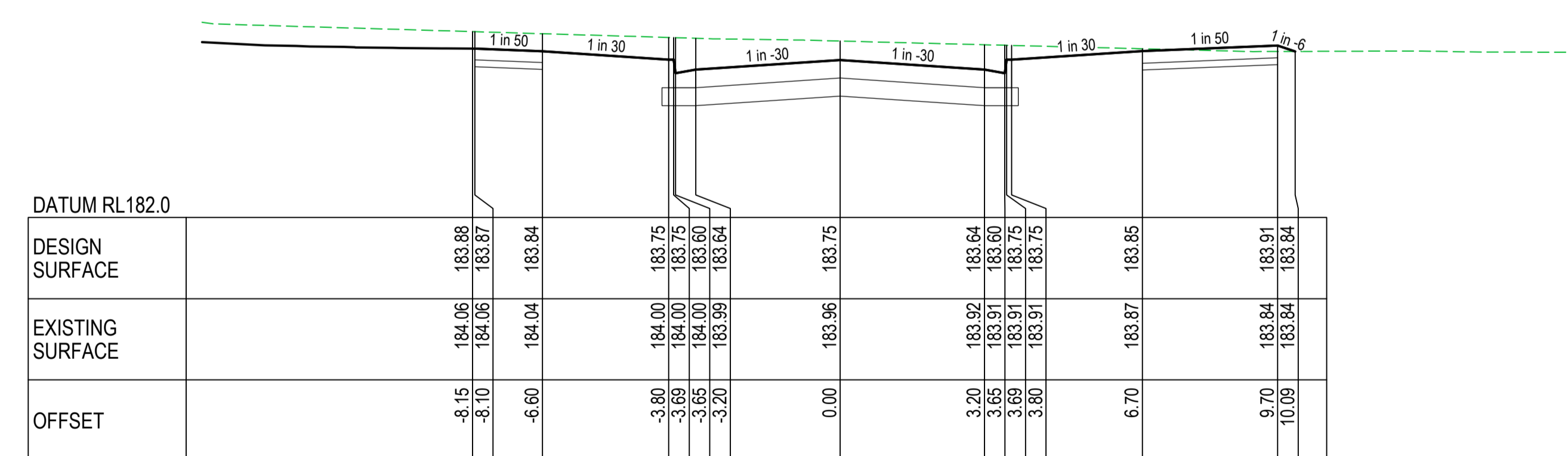
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CH 913.98



CH 805.98

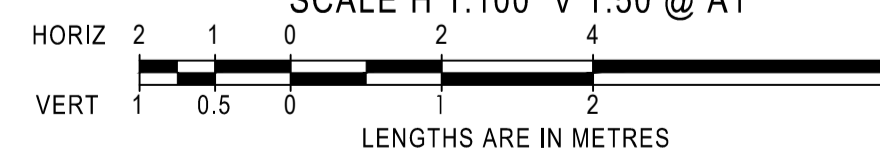


CH 899.38

LAKERIDGE DRIVE  
CROSS SECTIONS

SCALE A1 - 1:100H 1:50V

SCALE H 1:100 V 1:50 @ A1



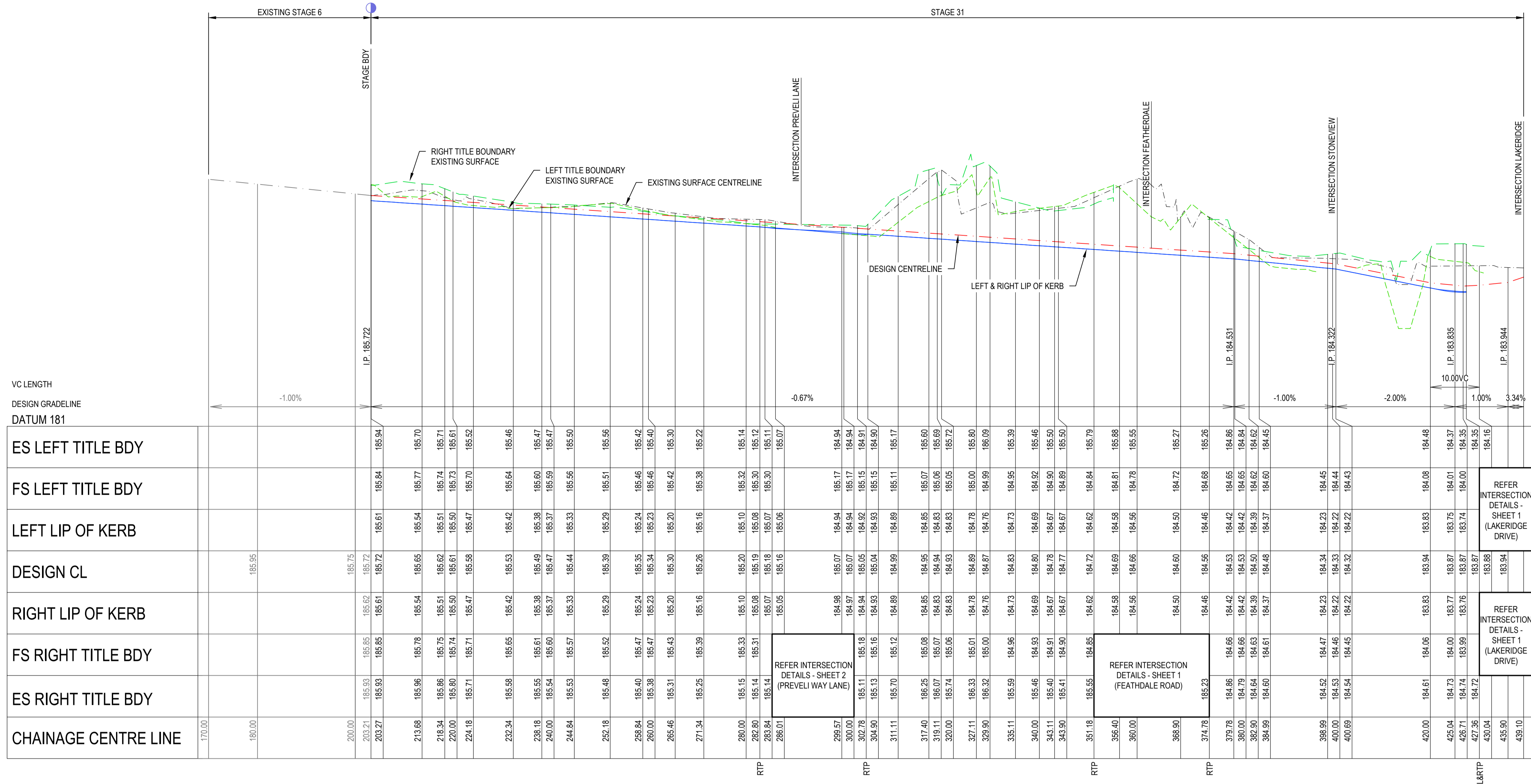
LEGEND:

- EXISTING SURFACE LEVEL
- DESIGN CENTRELINE
- TYPE A SELECTED MATERIAL FILL. LEVEL 1 SUPERVISION REQUIRED, IN ACCORDANCE WITH COUNCIL FILLING SPECIFICATION (CLAUSE 20.6)

		<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. - SURVEY B.P.D. DESIGN B.P.D.		<b>RATHDOWNE ESTATE STAGE 31</b> LAKERIDGE DRIVE CROSS SECTIONS		MUNICIPALITY WHITTLESEA	
A 25/08/23 ISSUE FOR CONSTRUCTION DRAWN M.T. CHECKED R.Gould-Williams				REFERENCE 9365 E/31	
AMENDMENTS	DATE	REMARKS	SCALE AS SHOWN	DATUM AHD	DATE Aug 23
			SHEET 8 OF 18	A	

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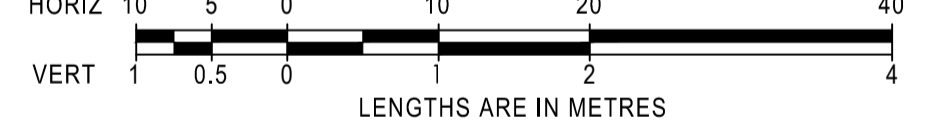


ES LEFT TITLE BDY	FS LEFT TITLE BDY	LEFT LIP OF KERB	DESIGN CL	RIGHT LIP OF KERB	FS RIGHT TITLE BDY	ES RIGHT TITLE BDY	CHAINAGE CENTRE LINE
			185.95				170.00
							180.00
			185.75				200.00
			185.72	185.62	185.85	185.93	203.21
			185.72	185.61	185.85	185.93	203.27
			185.65	185.54	185.78	185.96	213.68
			185.62	185.51	185.75	185.96	216.34
			185.61	185.50	185.74	185.90	220.00
			185.59	185.47	185.71	185.71	224.18
			185.53	185.42	185.65	185.59	232.34
			185.49	185.38	185.61	185.55	238.18
			185.47	185.37	185.60	185.54	240.00
			185.44	185.33	185.57	185.53	244.84
			185.39	185.29	185.52	185.48	252.18
			185.35	185.24	185.47	185.40	258.84
			185.34	185.23	185.47	185.38	260.00
			185.30	185.20	185.43	185.31	265.46
			185.26	185.16	185.39	185.25	271.34
			185.20	185.10	185.33	185.15	280.00
			185.19	185.08	185.31	185.14	282.80
			185.18	185.07	185.14	185.14	283.84
			185.16	185.05	185.11	185.11	286.01
			185.07	184.94	184.98	184.98	295.57
			185.07	184.94	184.97	184.97	300.00
			185.04	184.93	184.94	184.94	302.78
			184.99	184.89	184.93	184.93	304.90
			184.89	184.79	184.88	184.88	311.11
			184.85	184.75	184.85	184.85	317.40
			184.83	184.73	184.83	184.83	319.11
			184.83	184.73	184.83	184.83	320.00
			184.81	184.71	184.81	184.81	327.11
			184.78	184.68	184.78	184.78	329.90
			184.77	184.67	184.77	184.77	335.11
			184.72	184.62	184.72	184.72	340.00
			184.69	184.59	184.69	184.69	343.11
			184.67	184.57	184.67	184.67	343.90
			184.62	184.52	184.62	184.62	351.18
			184.58	184.48	184.58	184.58	356.40
			184.56	184.46	184.56	184.56	360.00
			184.50	184.40	184.50	184.50	368.90
			184.46	184.36	184.46	184.46	374.78
			184.42	184.32	184.42	184.42	379.78
			184.42	184.32	184.42	184.42	380.00
			184.39	184.29	184.39	184.39	382.90
			184.37	184.27	184.37	184.37	384.99
			184.34	184.24	184.34	184.34	388.99
			184.33	184.23	184.33	184.33	400.00
			184.22	184.12	184.22	184.22	400.69
			184.22	184.12	184.22	184.22	420.00
			184.16	184.06	184.16	184.16	425.04
			184.01	183.91	184.01	184.01	426.71
			183.87	183.77	183.87	183.87	427.36
			183.88	183.78	183.88	183.88	430.04
			183.94	183.84	183.94	183.94	435.90
			183.94	183.84	183.94	183.94	439.10

**PREVELI WAY  
LONGITUDINAL SECTION**

SCALE A1 - 1:500H 1:50V

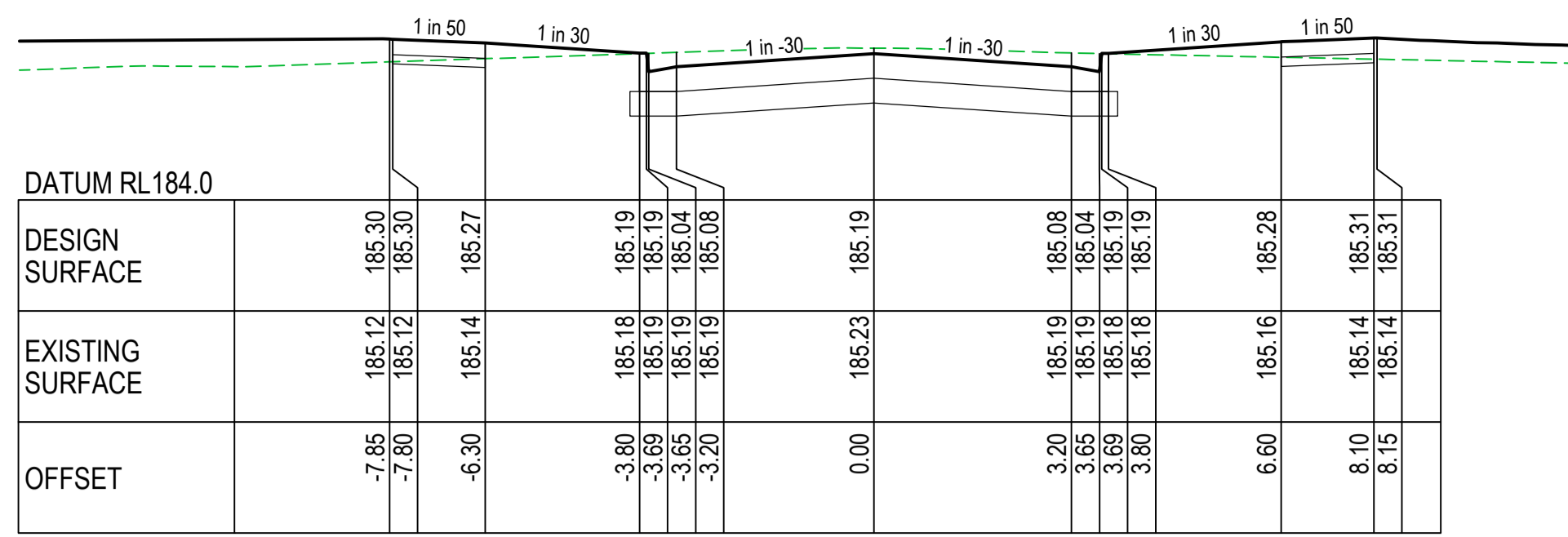
SCALE H 1:500 V 1:50 @ A1



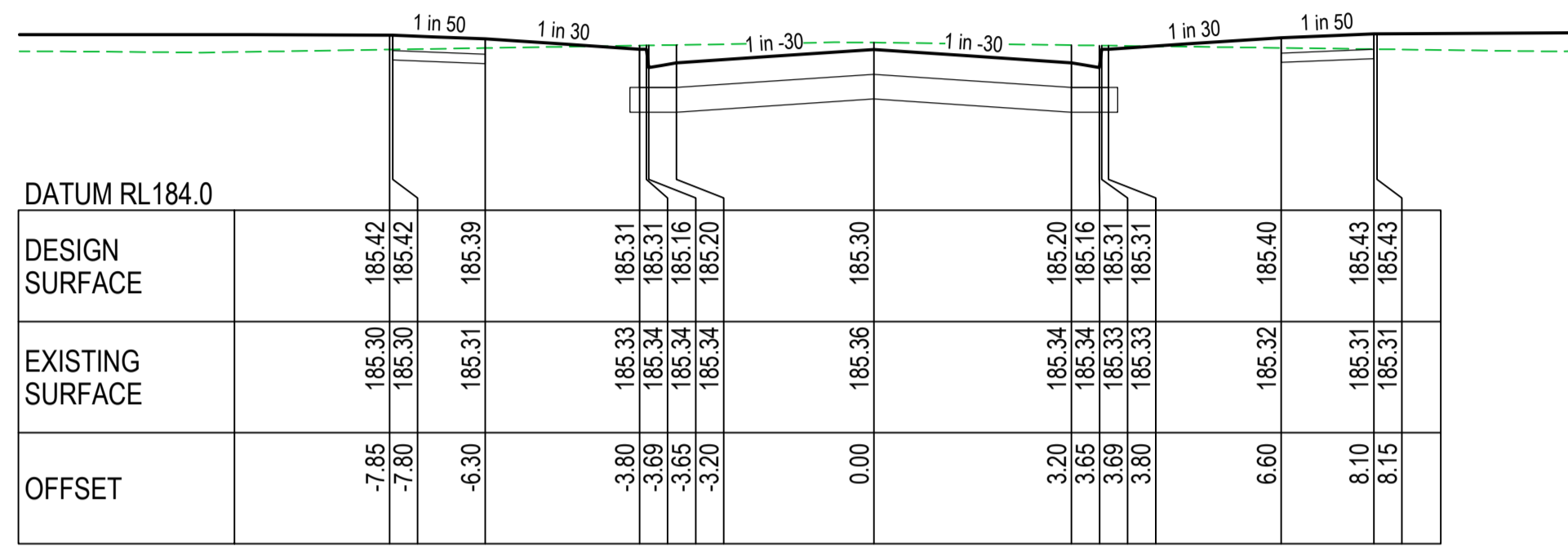
- LEGEND:**
- ES LEFT TITLE BOUNDARY
  - DESIGN CENTRELINE
  - LIP OF KERB
  - ES RIGHT TITLE BOUNDARY
  - ES CENTRELINE

		<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS A 25/08/23 ISSUE FOR CONSTRUCTION		MELWAY REF. - SURVEY B.P.D. DESIGN B.P.D. DRAWN M.T.		<b>RATHDOWNE ESTATE STAGE 31</b> PREVELI WAY LONGITUDINAL SECTION	
CHECKED R.Gould-Williams		SCALE AS SHOWN DATUM AHD DATE Aug 23		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/31 SHEET 9 OF 18 A	

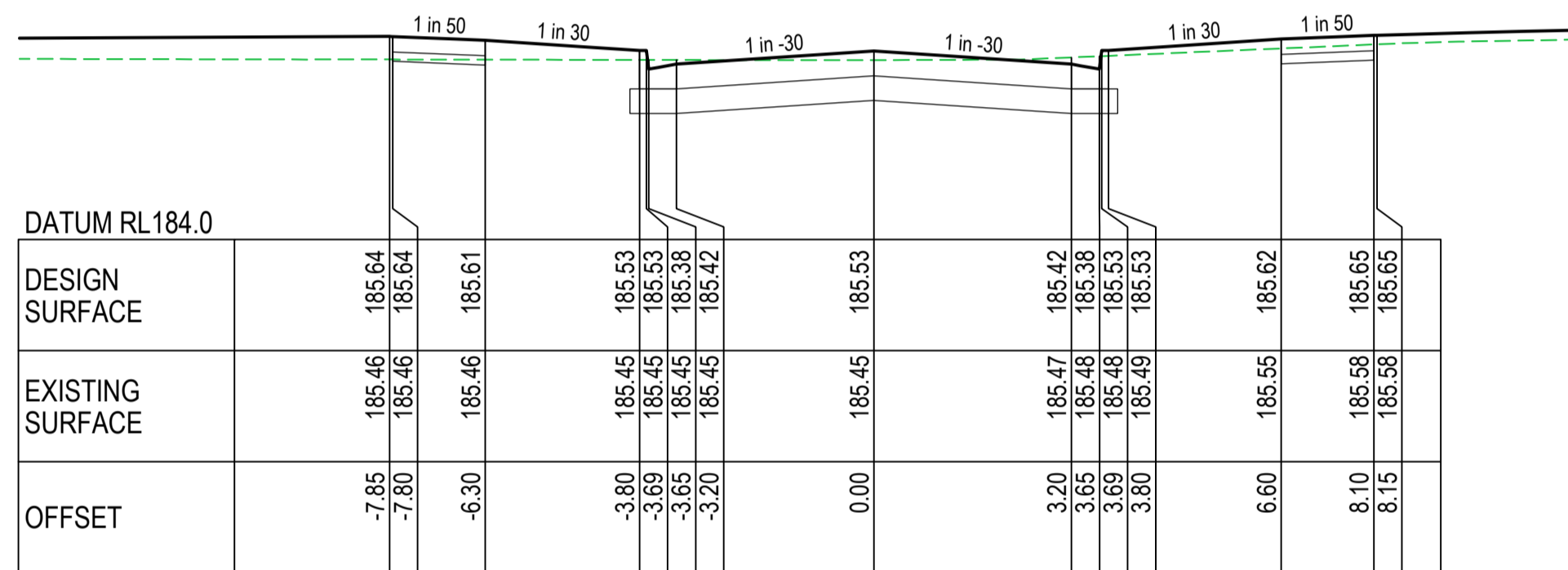
Planref Aug 25, 2023 - 1055am



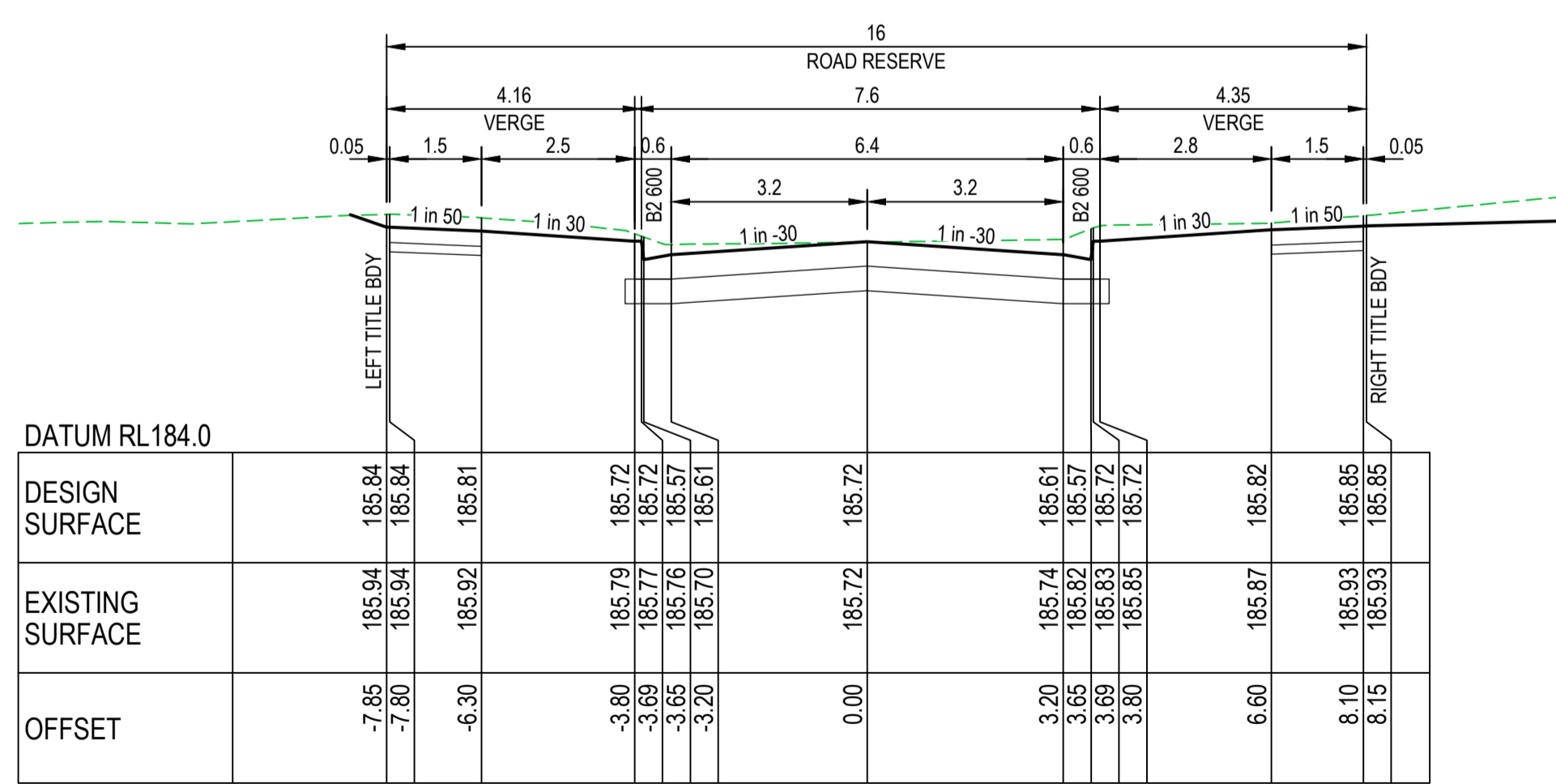
CH 282.80



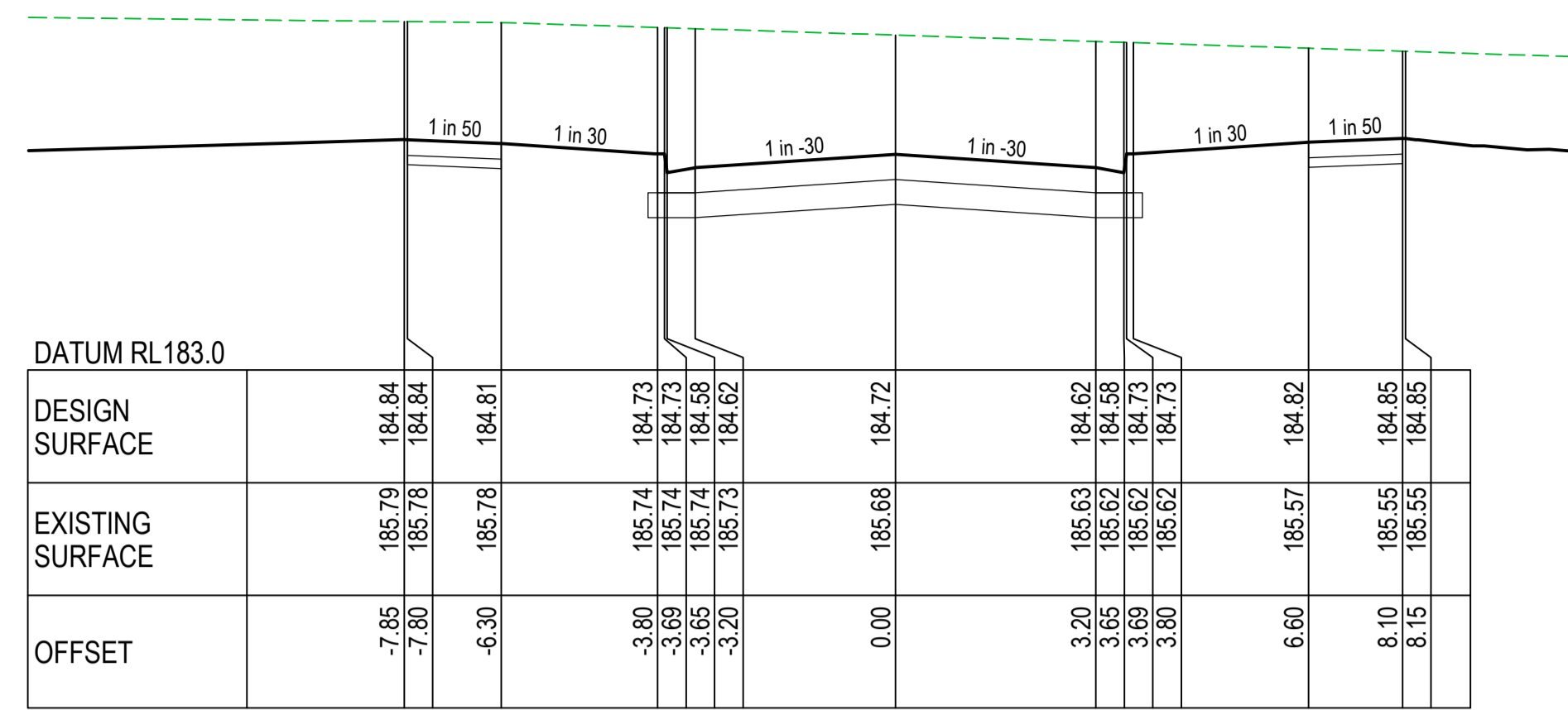
CH 265.46



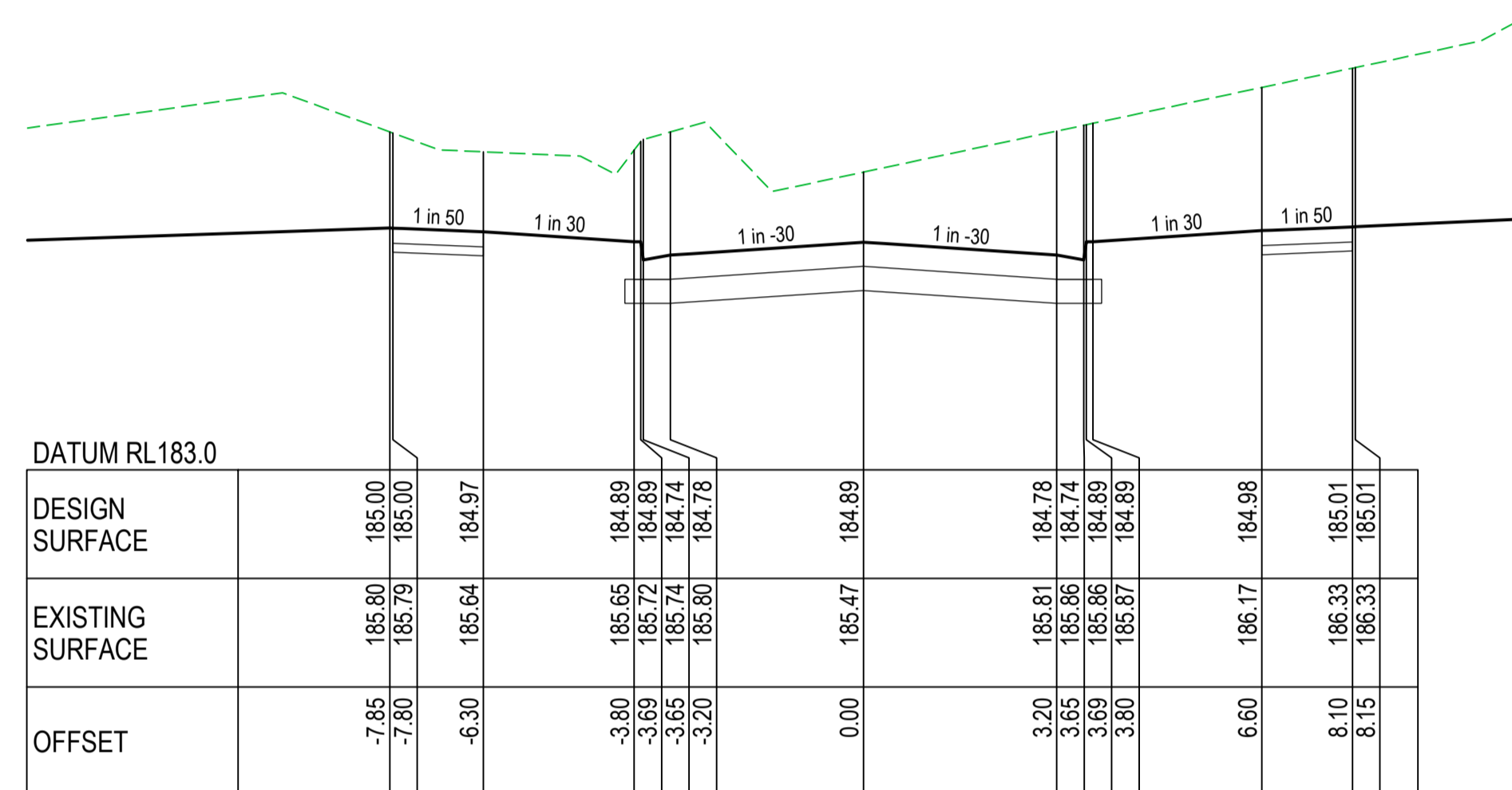
CH 232.34



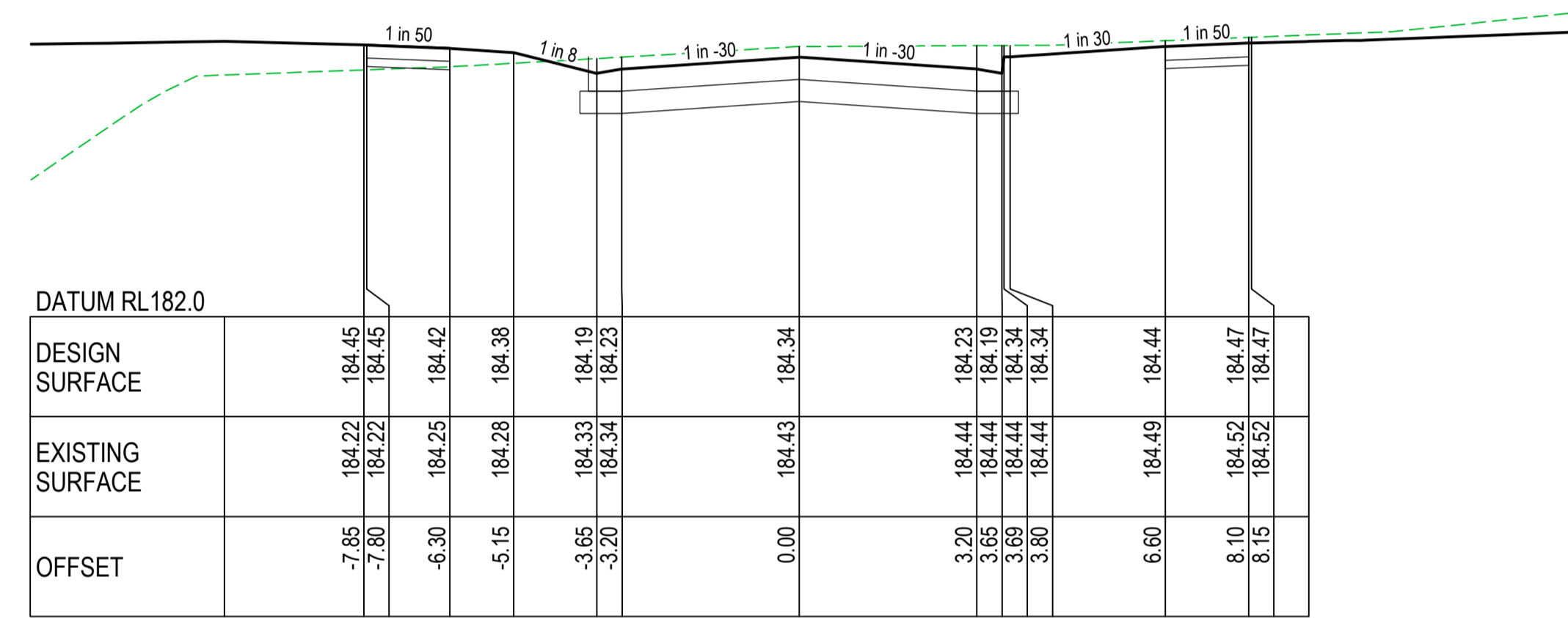
CH 203.27



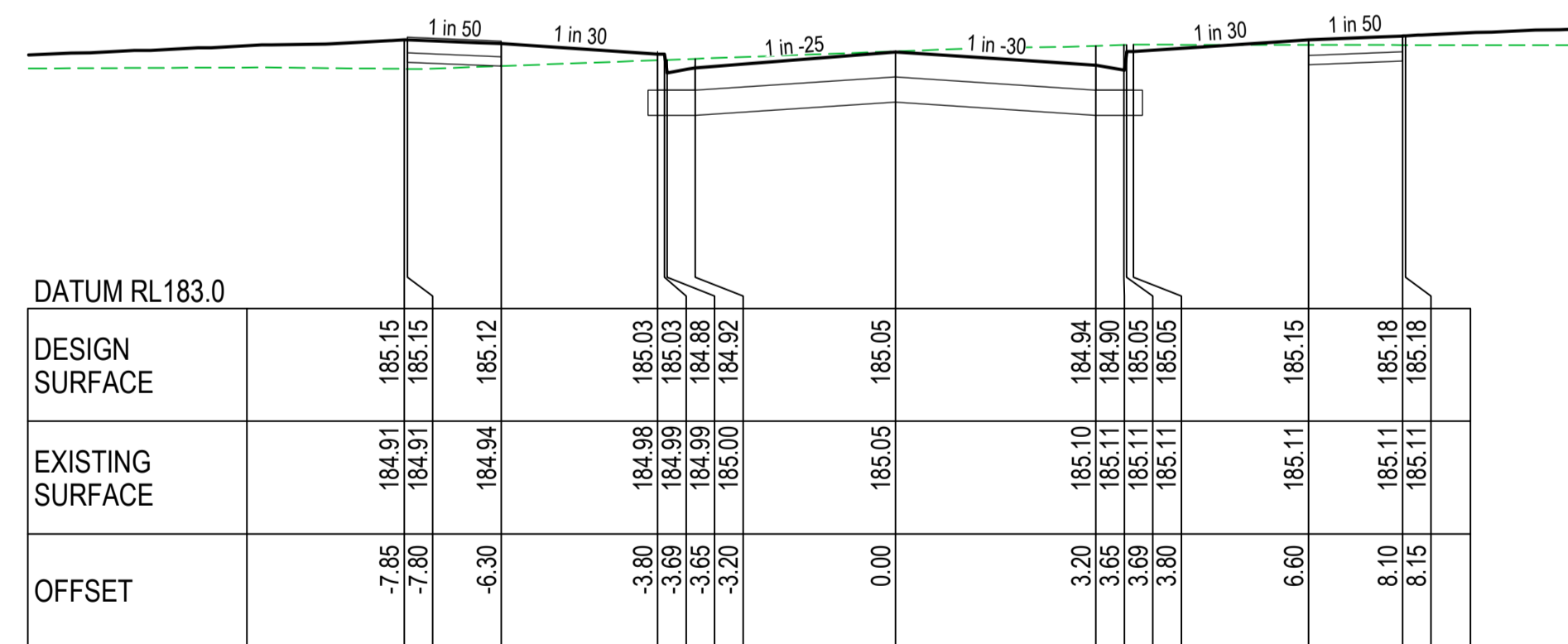
CH 351.18



CH 327.11

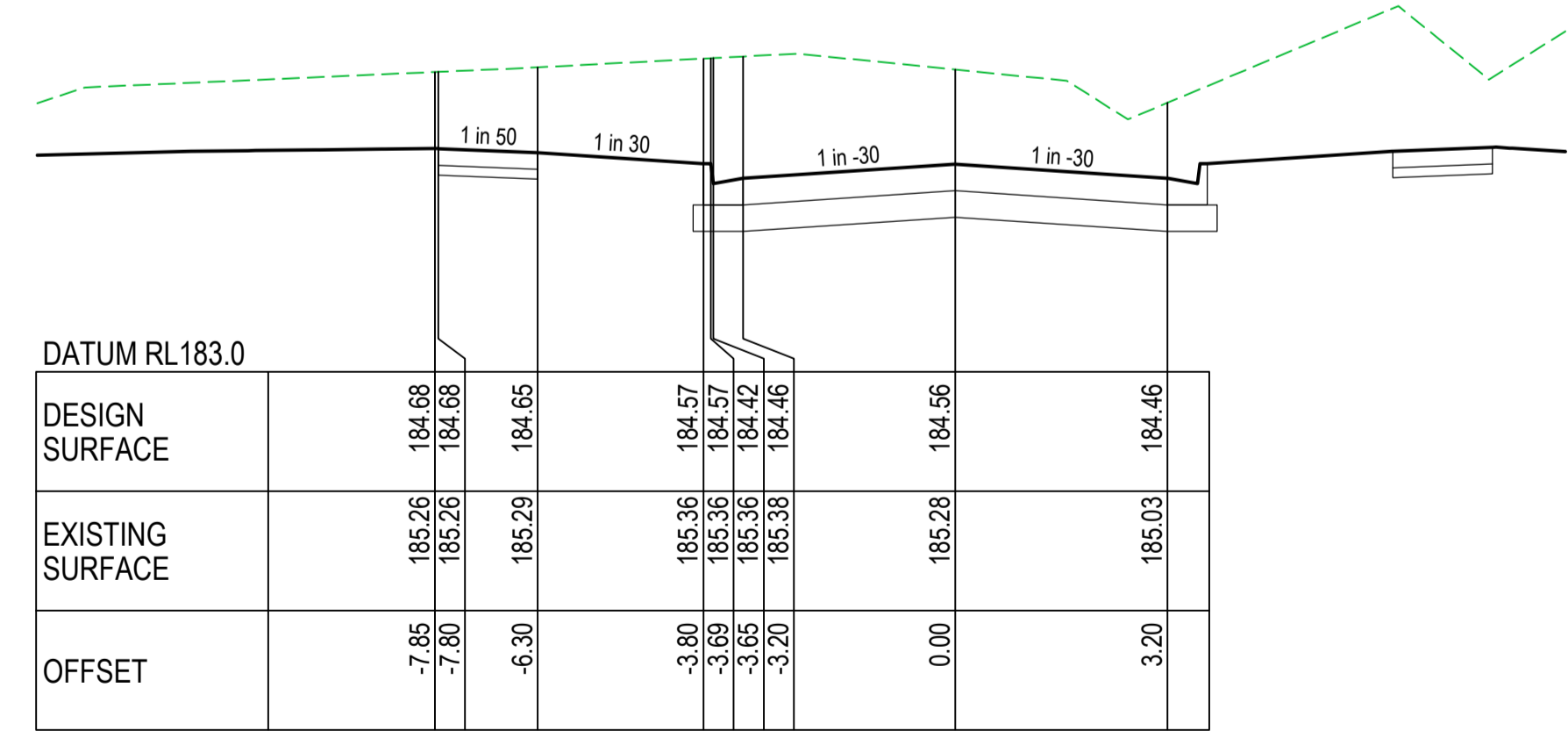
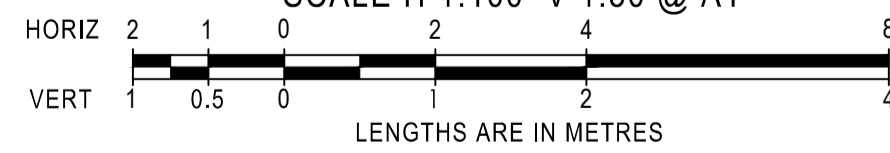


CH 398.99



CH 302.78  
PREVELI WAY  
CROSS SECTIONS

SCALE A1 - 1:100H 1:50V  
SCALE H 1:100 V 1:50 @ A1

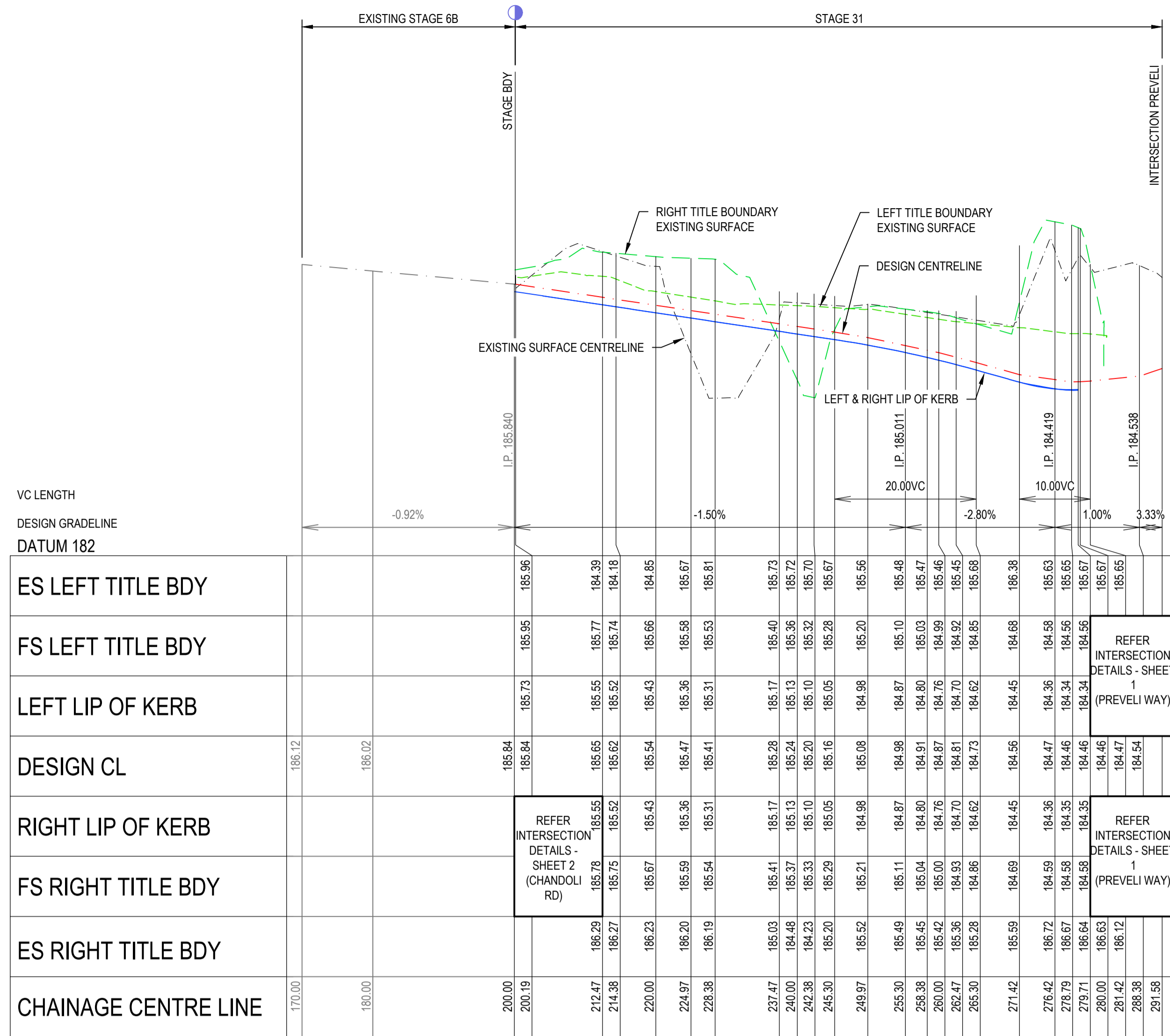


CH 374.78

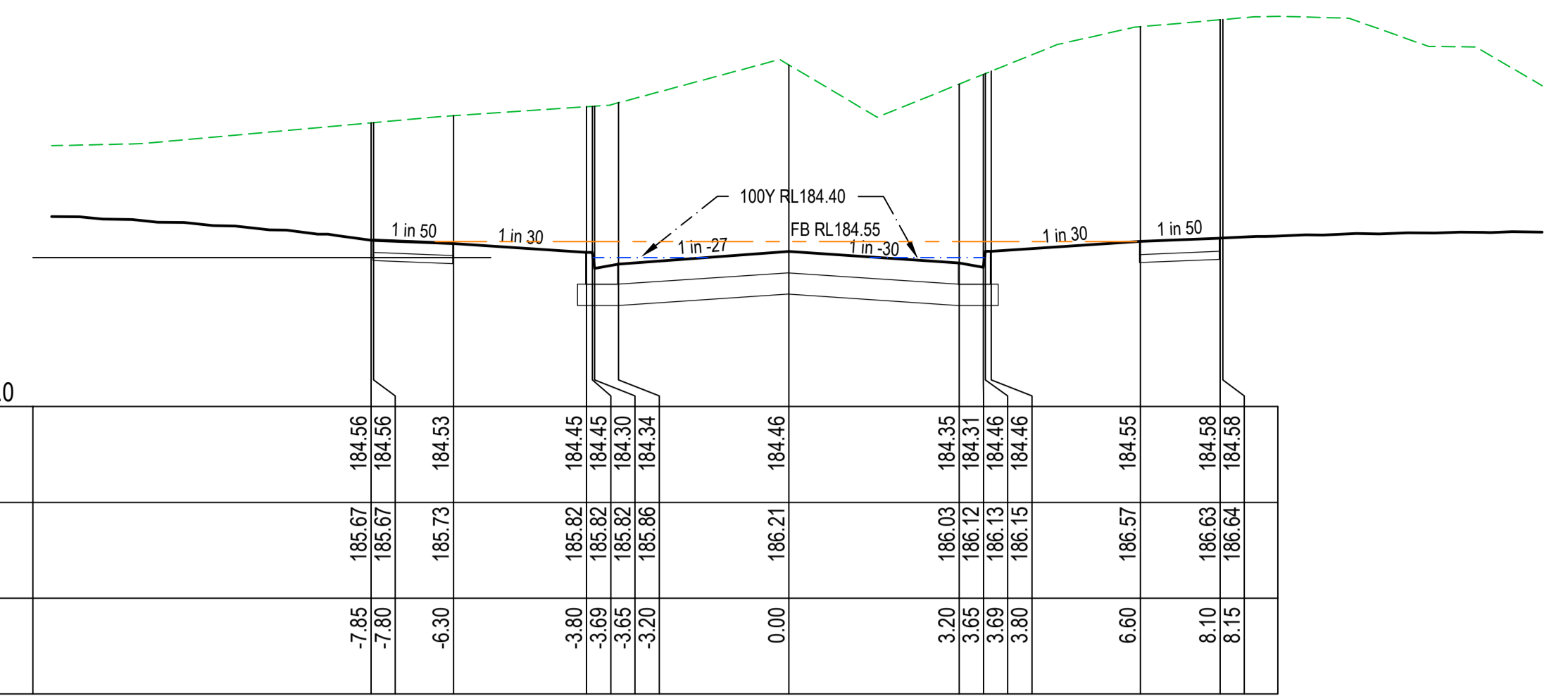
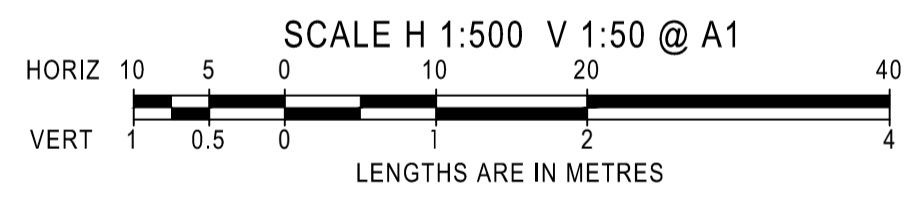
LEGEND:

- EXISTING SURFACE LEVEL
- DESIGN CENTRELINE
- TYPE A SELECTED MATERIAL FILL. LEVEL 1 SUPERVISION REQUIRED, IN ACCORDANCE WITH COUNCIL FILLING SPECIFICATION (CLAUSE 20.6)

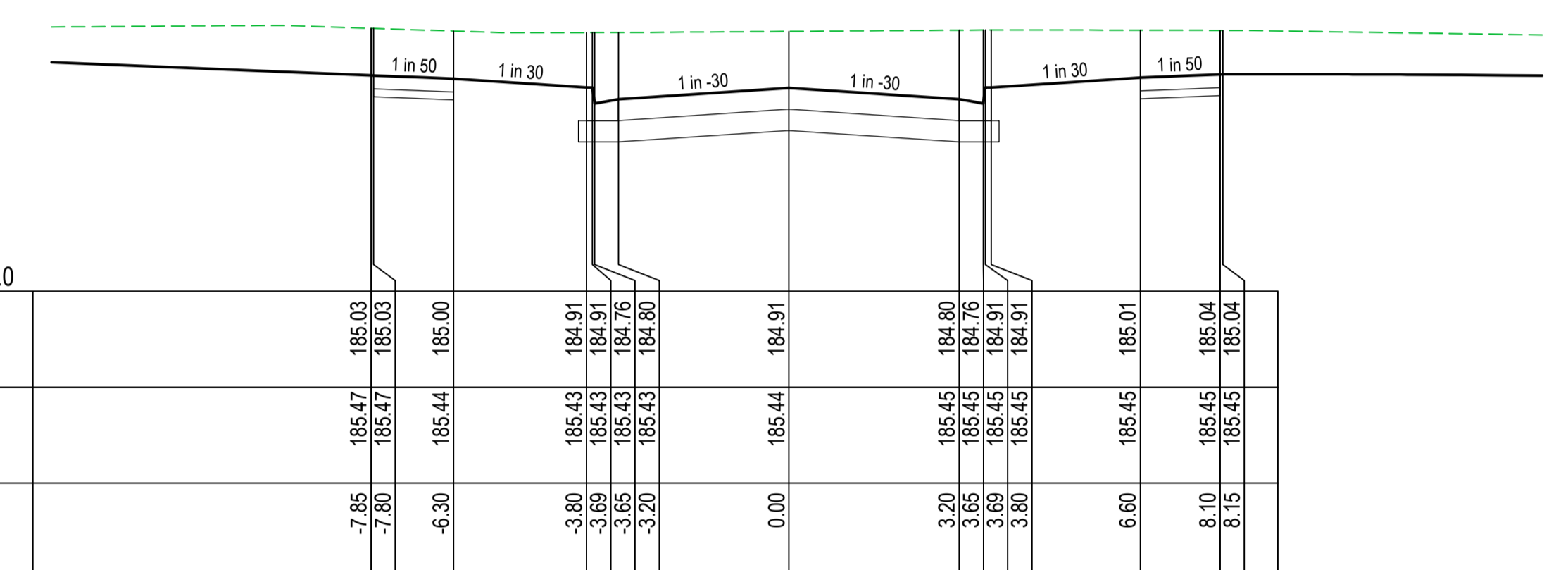
AMENDMENTS		MELWAY REF. -		brees pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		SURVEY B.P.D.		RATHDOWNE ESTATE STAGE 31		MUNICIPALITY WHITTLESEA	
		DESIGN B.P.D.		PREVELI WAY CROSS SECTIONS		REFERENCE 9365 E/31	
A 25/08/23 ISSUE FOR CONSTRUCTION		DRAWN M.T.		SCALE AS SHOWN DATUM AHD		DATE Aug 23 SHEET 10 OF 18 A	
VER DATE REMARKS		CHECKED R.Gould-Williams		SCALE AS SHOWN DATUM AHD		DATE Aug 23 SHEET 10 OF 18 A	



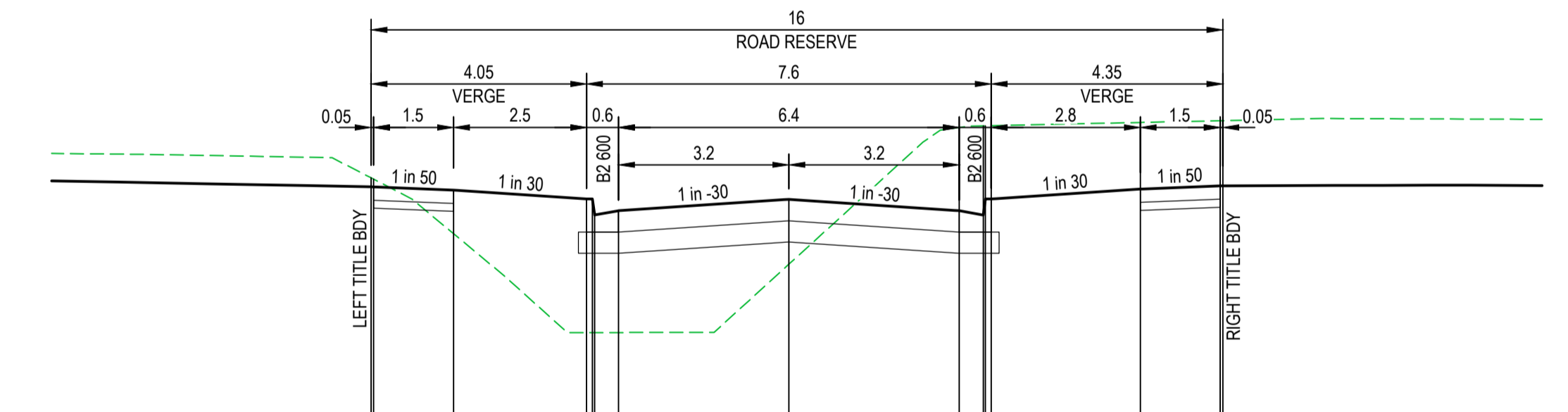
FEATHERDALE ROAD  
LONGITUDINAL SECTION  
SCALE A1 - 1:500H 1:50V



CH 279.71

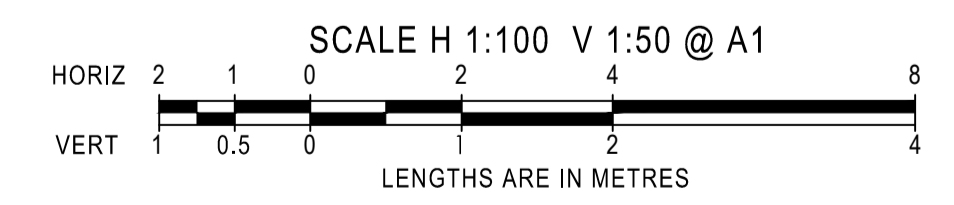


CH 258.38



CH 224.97

FEATHERDALE ROAD  
CROSS SECTIONS  
SCALE A1 - 1:100H 1:50V



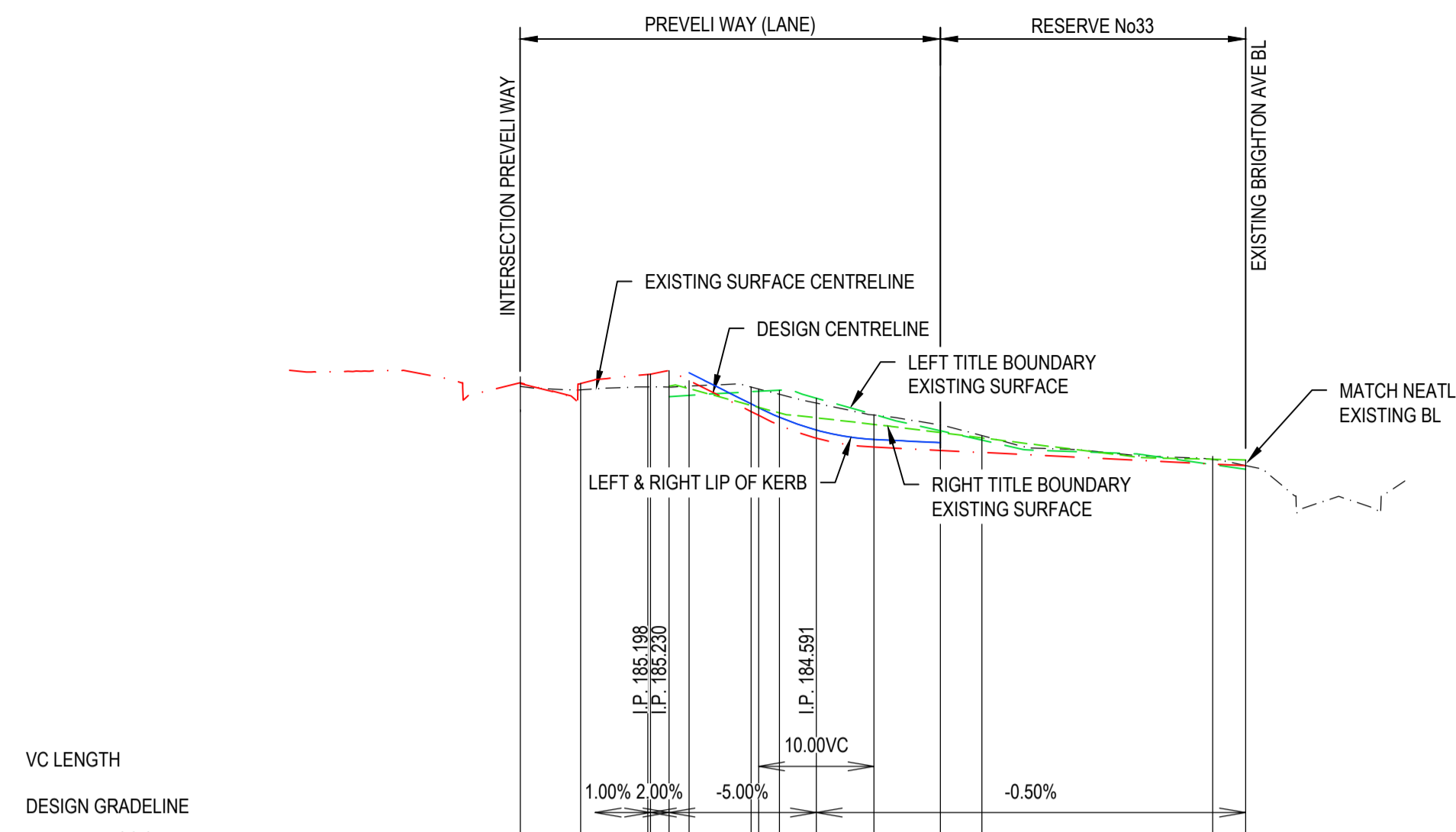
LEGEND:

- ES LEFT TITLE BOUNDARY
- DESIGN CENTRELINE
- LIP OF KERB
- ES RIGHT TITLE BOUNDARY
- ES CENTRELINE

LEGEND:

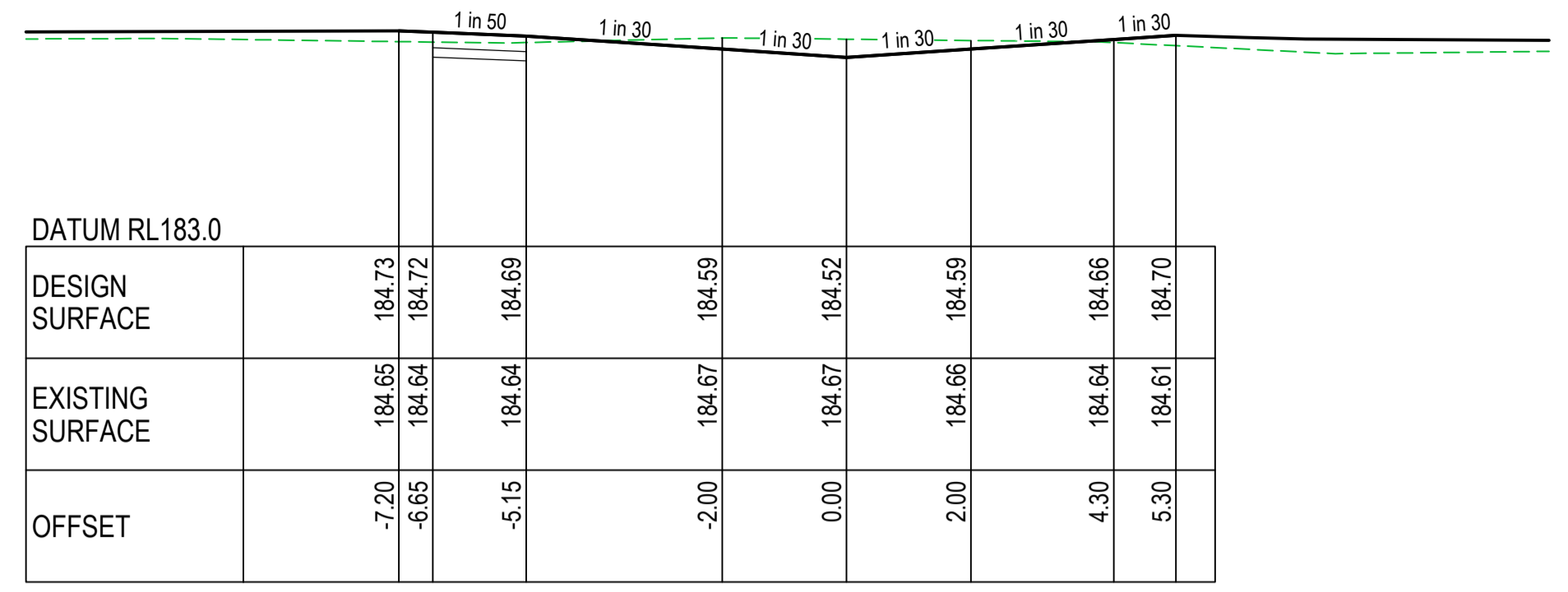
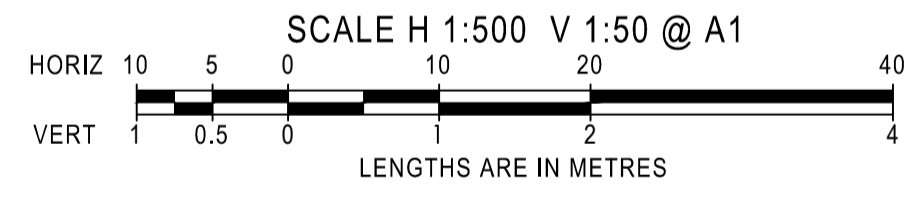
- EXISTING SURFACE LEVEL
- DESIGN CENTRELINE
- TYPE A SELECTED MATERIAL FILL. LEVEL 1 SUPERVISION REQUIRED, IN ACCORDANCE WITH COUNCIL FILLING SPECIFICATION (CLAUSE 20.6)

		<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS		MELWAY REF. - SURVEY B.P.D. DESIGN B.P.D.		<b>RATHDOWNE ESTATE</b> STAGE 31	
A 25/08/23 ISSUE FOR CONSTRUCTION		DRAWN M.T. CHECKED R.Gould-Williams		FEATHERDALE RD LONGITUDINAL SECTION & CROSS SECTIONS SCALE AS SHOWN DATUM AHD DATE Aug 23 SHEET 11 OF 18 A	
VER DATE REMARKS		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/31		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/31	

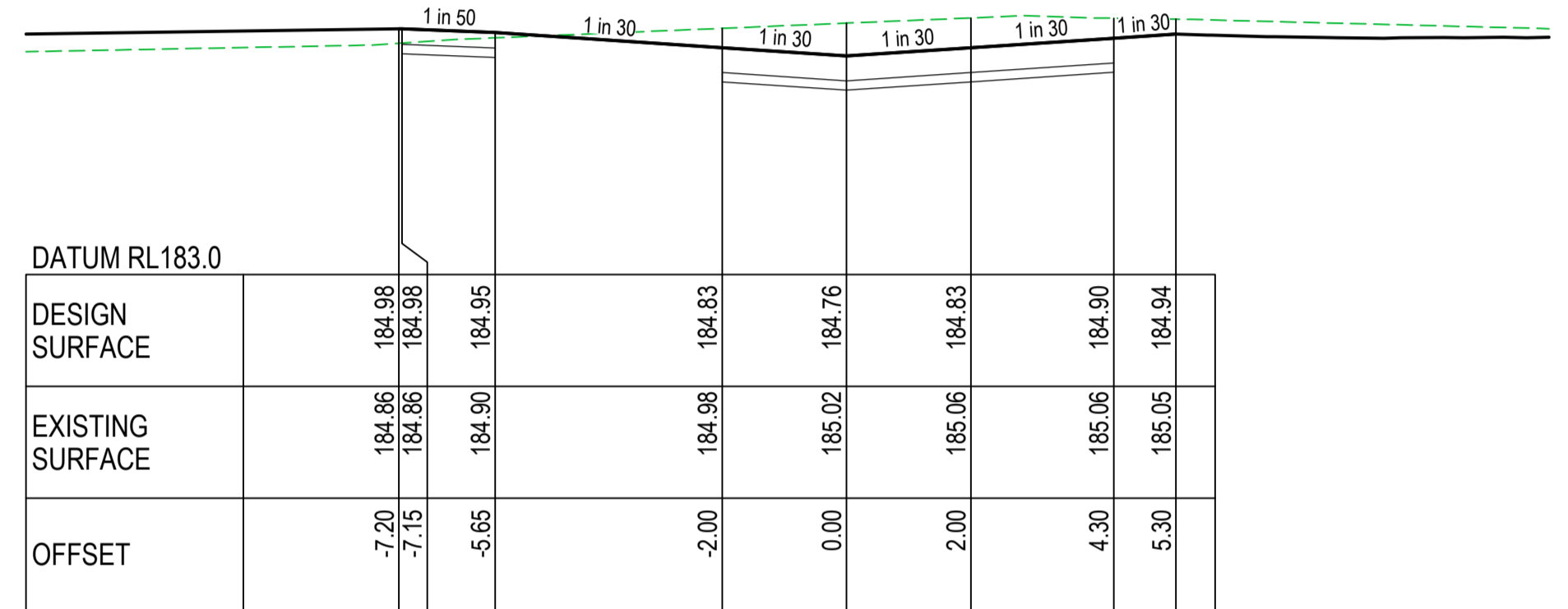


VC LENGTH	DESIGN GRADELINE	DATUM 181
ES LEFT TITLE BDY	185.06	184.46
FS LEFT TITLE BDY	REFER INTERSECTION DETAILS - SHEET 2 (PREVELI WAY)	184.60
LEFT EDGE OF DRIVEWAY	185.20	184.41
DESIGN CL	185.20	184.41
RIGHT EDGE OF DRIVEWAY	REFER INTERSECTION DETAILS - SHEET 2 (PREVELI WAY)	184.49
FS RIGHT TITLE BDY	185.06	184.60
ES RIGHT TITLE BDY	184.99	184.37
CHAINAGE CENTRE LINE	0.00	62.85

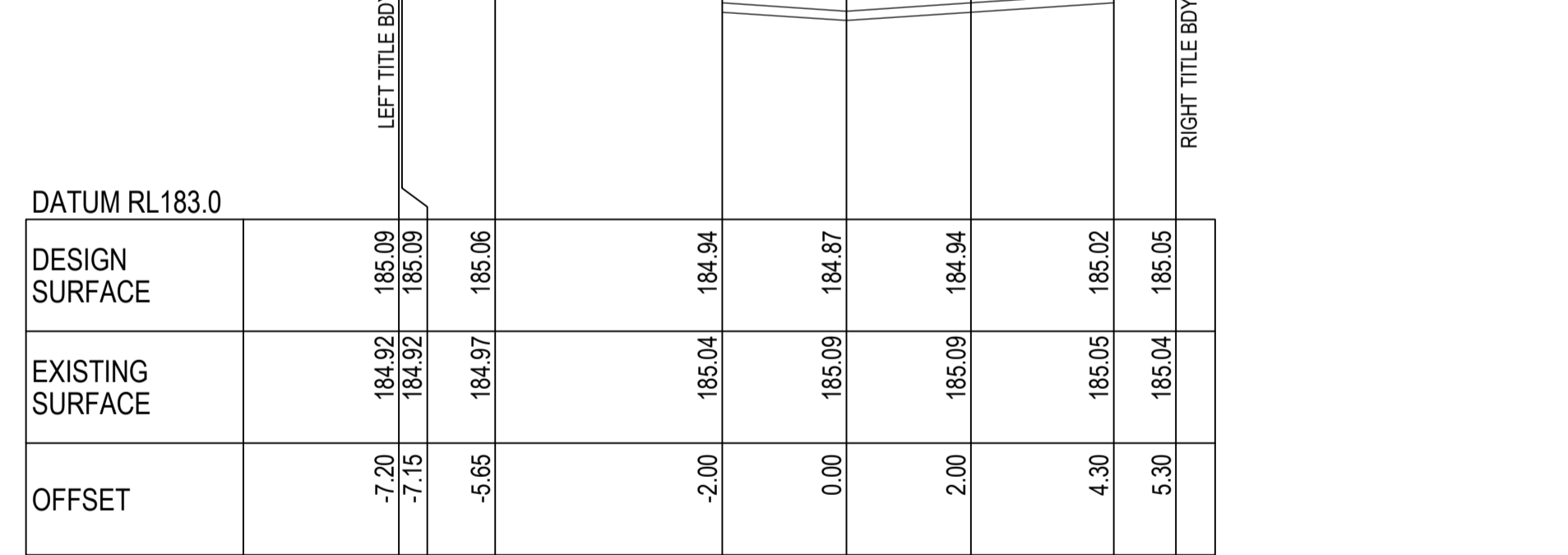
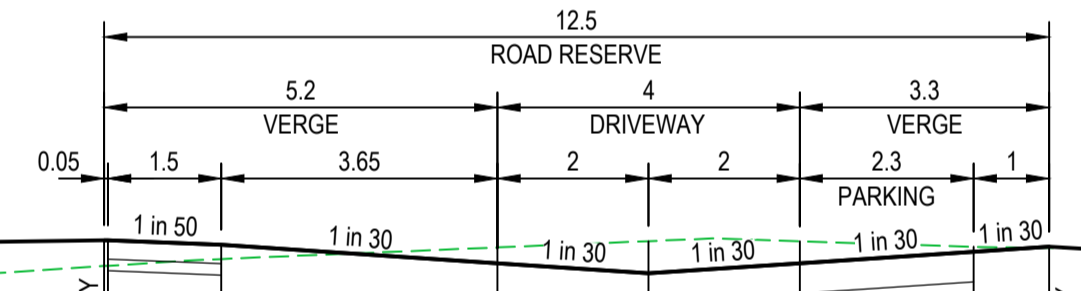
PREVELI WAY (LANE)  
LONGITUDINAL SECTION  
SCALE A1 - 1:500H 1:50V



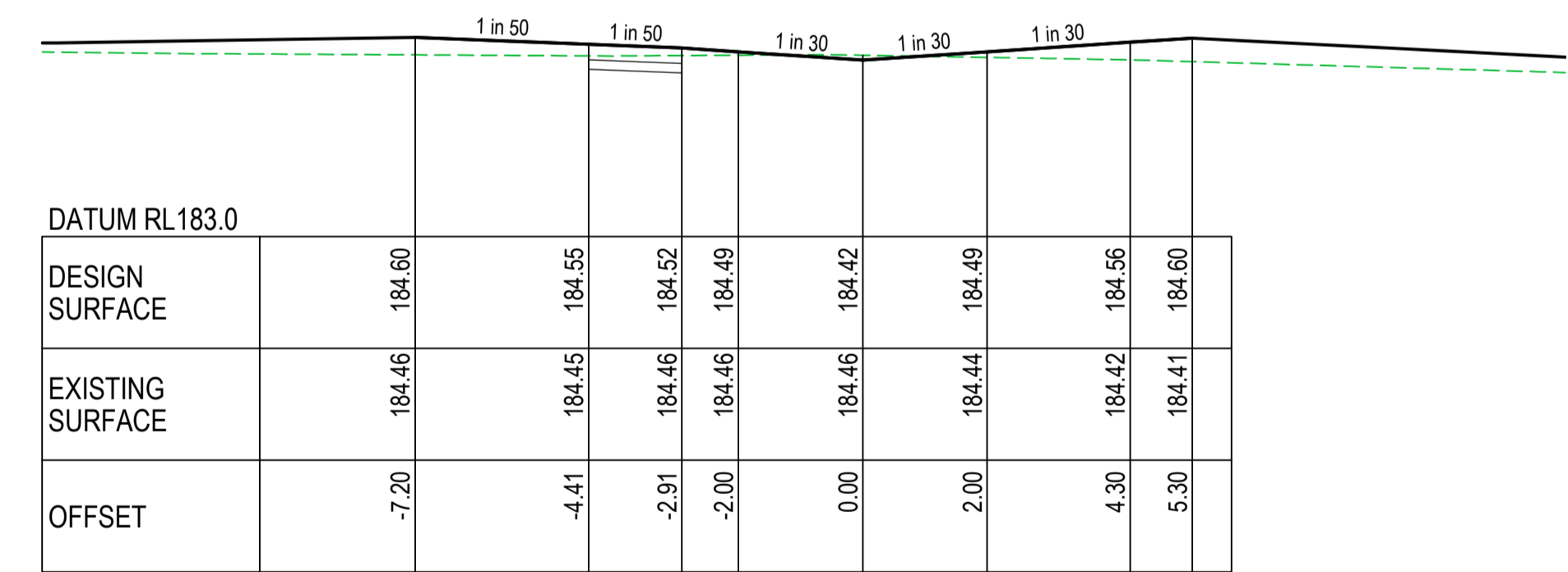
CH 40.00 (RESERVE)



CH 22.45

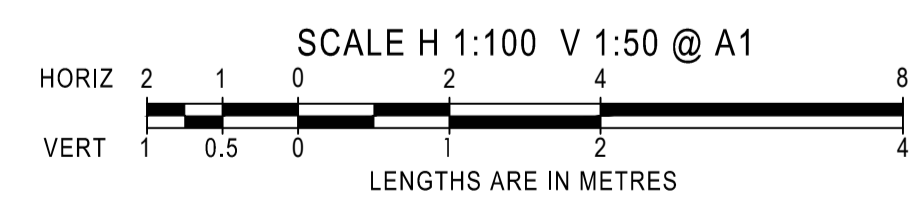


CH 20.00



CH 60.00 (RESERVE)

PREVELI WAY (LANE)  
CROSS SECTIONS  
SCALE A1 - 1:100H 1:50V

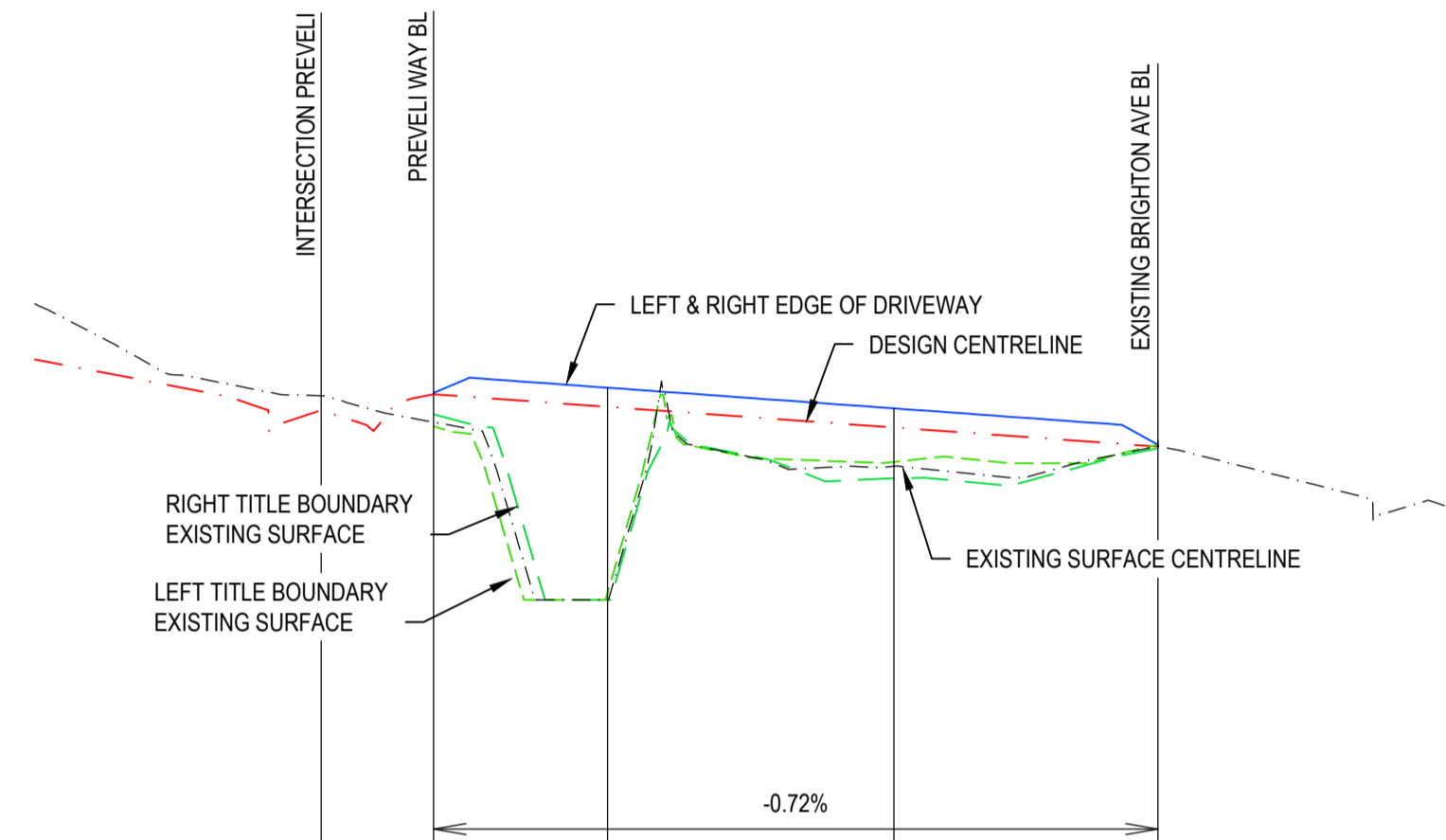


- LEGEND:
- ES LEFT TITLE BOUNDARY
  - DESIGN CENTRELINE
  - LIP OF KERB
  - ES RIGHT TITLE BOUNDARY
  - ES CENTRELINE

- LEGEND:
- EXISTING SURFACE LEVEL
  - DESIGN CENTRELINE
  - TYPE A SELECTED MATERIAL FILL, LEVEL 1 SUPERVISION REQUIRED, IN ACCORDANCE WITH COUNCIL FILLING SPECIFICATION (CLAUSE 20.6)

		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MUNICIPALITY WHITTLESEA		REFERENCE 9365 E/31	
RATHDOWNE ESTATE STAGE 31		PREVELI WAY (LANE) LONGITUDINAL & CROSS SECTIONS	
MELWAY REF. - SURVEY B.P.D. DESIGN B.P.D.		DRAWN M.T. CHECKED R.Gould-Williams	
AMENDMENTS A 25/08/23 ISSUE FOR CONSTRUCTION		SCALE AS SHOWN DATUM AHD DATE Aug 23 SHEET 12 OF 18 A	

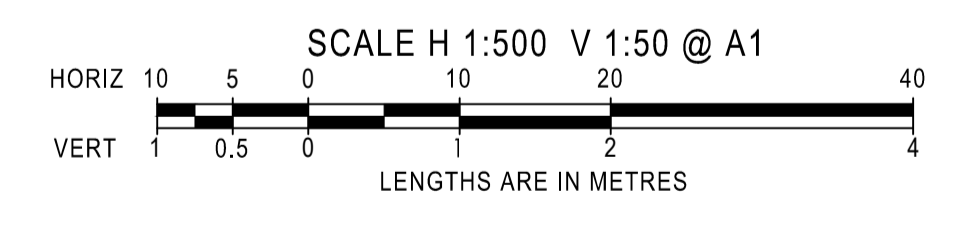
Printed Aug 25, 2023 - 10:51am



VC LENGTH  
DESIGN GRADELINE  
DATUM 181

ES LEFT TITLE BDY			183.06	183.06	
FS LEFT TITLE BDY			183.06	183.06	
LEFT EDGE OF DRIVEWAY		184.47	184.48	184.34	184.079
DESIGN CL		184.45	184.35	184.20	184.07
RIGHT EDGE OF DRIVEWAY		184.35	184.48	184.34	184.062
FS RIGHT TITLE BDY			183.00	183.05	
ES RIGHT TITLE BDY			183.00	183.05	
CHAINAGE CENTRE LINE	0.00	7.85	20.00	40.00	58.43

**STONEVIEW LANE  
LONGITUDINAL SECTION**  
SCALE A1 - 1:500H 1:50V



- LEGEND:**
- ES LEFT TITLE BOUNDARY
  - DESIGN CENTRELINE
  - LIP OF KERB
  - ES RIGHT TITLE BOUNDARY
  - ES CENTRELINE

DATUM RL182.0

DESIGN SURFACE		184.39	184.25	184.39
EXISTING SURFACE		183.98	183.91	183.92
OFFSET		-4.00	0.00	4.00

CH 32.87

DATUM RL181.0

DESIGN SURFACE		184.51	184.38	184.51
EXISTING SURFACE		183.00	183.00	183.00
OFFSET		-4.00	0.00	4.00

CH 16.23

DATUM RL182.0

DESIGN SURFACE		184.55	184.42	184.55
EXISTING SURFACE		184.16	184.19	184.23
OFFSET		-4.00	0.00	4.00

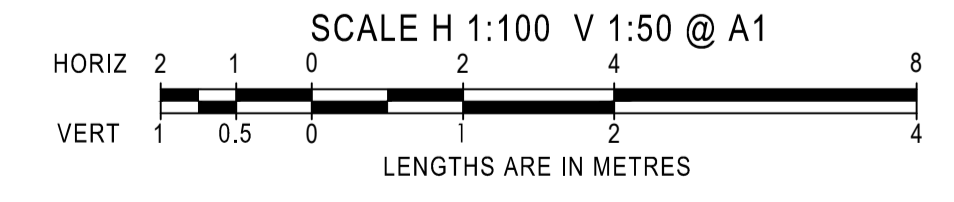
CH 10.37

DATUM RL182.0

DESIGN SURFACE		184.27	184.25	184.12	184.25	184.25
EXISTING SURFACE		183.96	183.95	183.92	183.89	183.88
OFFSET		-4.18	-4.00	0.00	4.00	4.18

CH 51.43

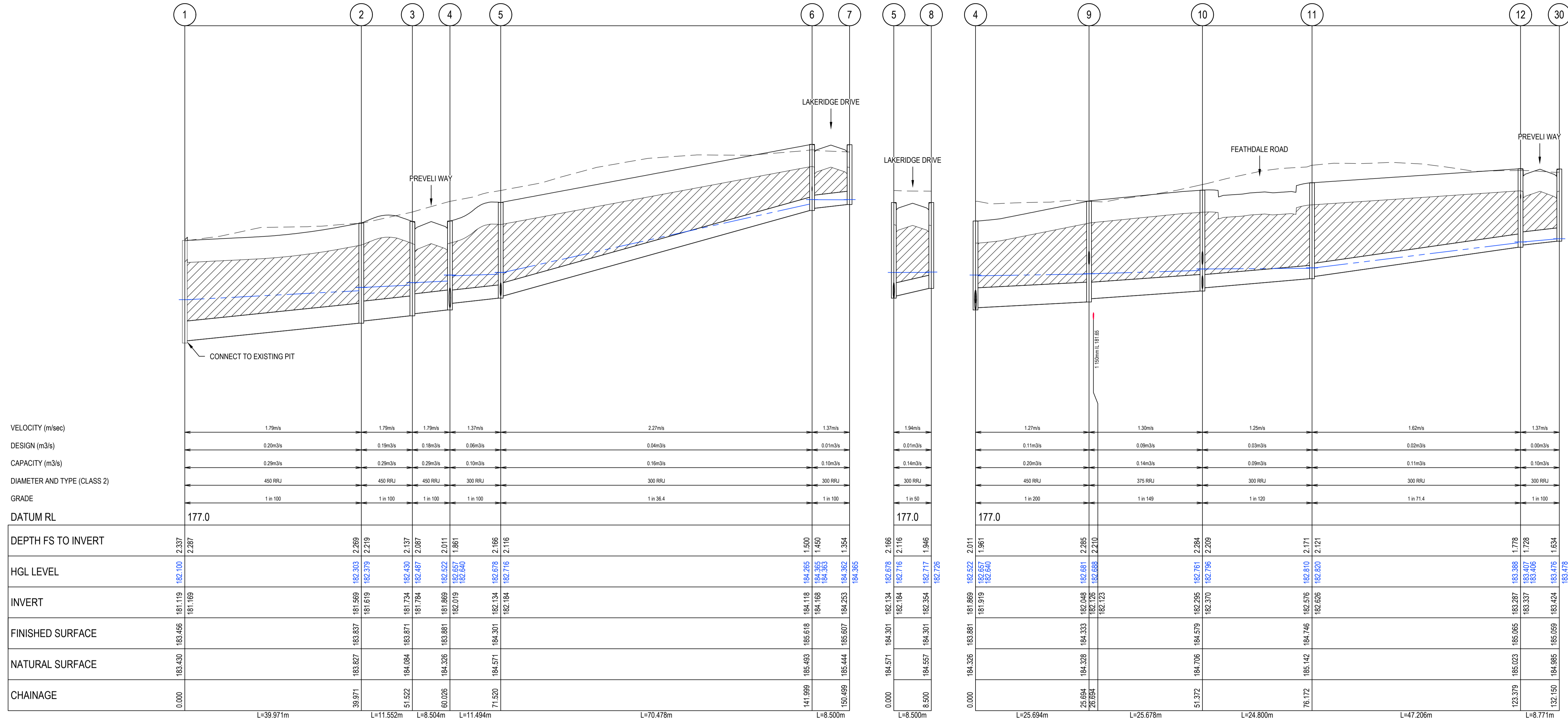
**STONEVIEW LANE  
CROSS SECTIONS**  
SCALE A1 - 1:100H 1:50V



- LEGEND:**
- EXISTING SURFACE LEVEL
  - DESIGN CENTRELINE
  - TYPE A SELECTED MATERIAL FILL. LEVEL 1 SUPERVISION REQUIRED, IN ACCORDANCE WITH COUNCIL FILLING SPECIFICATION (CLAUSE 20.6)

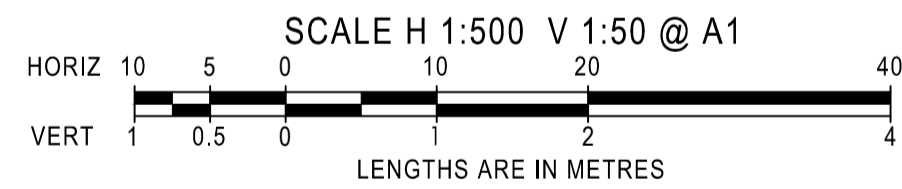
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50px;">AMENDMENTS</td> <td></td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		AMENDMENTS								<p><b>breese pitt dixon pty. ltd.</b> land surveyors      civil engineers</p>	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
		AMENDMENTS									
MELWAY REF. -	<b>RATHDOWNE ESTATE STAGE 31</b>	MUNICIPALITY <b>WHITTLESEA</b>									
SURVEY B.P.D.	STONEVIEW LANE LONGITUDINAL & CROSS SECTIONS	REFERENCE <b>9365 E/31</b>									
DESIGN B.P.D.	DRAWN M.T.	SHEET 13 OF 18									
A 25/08/23 ISSUE FOR CONSTRUCTION	CHECKED R.Gould-Williams	SCALE AS SHOWN    DATUM AHD    DATE Aug 23									
VER DATE REMARKS		SHEET 13 OF 18    A									

Printed Aug 25, 2023 - 10:52am



### DRAINAGE LONGITUDINAL SECTIONS

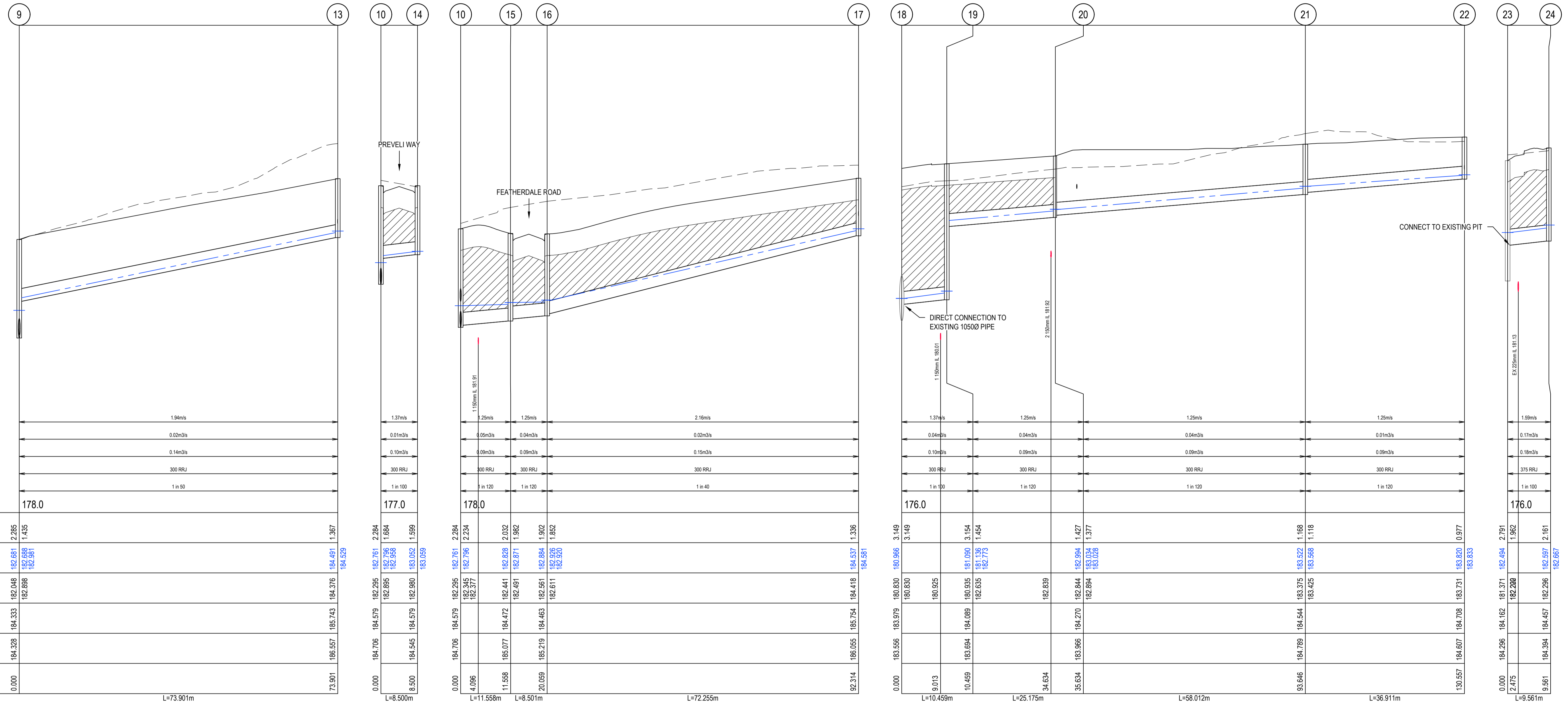
SCALE A1 - 1:500H 1:50V



#### LEGEND:

- INDICATES CRUSHED ROCK BACKFILL
- INDICATES 5 YEAR HGL
- INDICATES 10 YEAR HGL

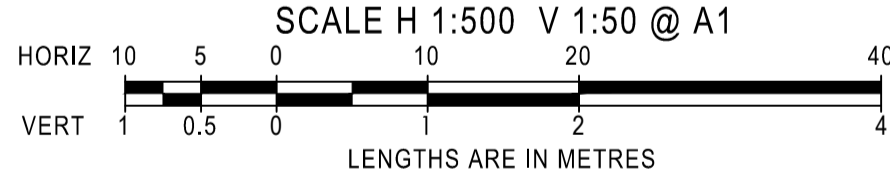
		<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MUNICIPALITY <b>WHITTLESEA</b>		REFERENCE <b>9365 E/31</b>	
RATHDOWNE ESTATE <b>STAGE 31</b>		DRAINAGE LONGITUDINAL SECTIONS - SHEET 1		SHEET 14 OF 18	
AMENDMENTS A 25/08/23 ISSUE FOR CONSTRUCTION		MELWAY REF. - SURVEY B.P.D. DESIGN B.P.D. DRAWN M.T.		CHECKED R.Gould-Williams SCALE AS SHOWN DATUM AHD DATE Aug 23	



VELOCITY (m/sec)	1.94m/s		1.37m/s		2.25m/s		1.25m/s		2.16m/s		1.37m/s		1.25m/s		1.25m/s		1.58m/s							
DESIGN (m <sup>3</sup> /s)	0.02m <sup>3</sup> /s		0.01m <sup>3</sup> /s		0.05m <sup>3</sup> /s		0.04m <sup>3</sup> /s		0.02m <sup>3</sup> /s		0.04m <sup>3</sup> /s		0.04m <sup>3</sup> /s		0.01m <sup>3</sup> /s		0.17m <sup>3</sup> /s							
CAPACITY (m <sup>3</sup> /s)	0.14m <sup>3</sup> /s		0.10m <sup>3</sup> /s		0.09m <sup>3</sup> /s		0.09m <sup>3</sup> /s		0.15m <sup>3</sup> /s		0.10m <sup>3</sup> /s		0.09m <sup>3</sup> /s		0.09m <sup>3</sup> /s		0.18m <sup>3</sup> /s							
DIAMETER AND TYPE (CLASS 2)	300 RRJ		300 RRJ		300 RRJ		300 RRJ		300 RRJ		300 RRJ		300 RRJ		300 RRJ		375 RRJ							
GRADE	1 in 50		1 in 100		1 in 120		1 in 120		1 in 40		1 in 120		1 in 120		1 in 120		1 in 100							
DATUM RL	178.0		177.0		178.0		178.0		178.0		176.0		176.0		176.0		176.0							
DEPTH FS TO INVERT	2.265	1.435	2.284	1.684	2.234	2.032	1.982	1.902	1.902	1.902	1.902	3.149	3.149	3.154	1.454	1.427	1.377	1.168	1.118	0.977	1.962	2.161		
HGL LEVEL	182.681	182.688	182.761	182.756	182.756	182.828	182.871	182.884	182.884	182.884	182.884	180.830	180.830	181.090	181.136	182.904	183.034	183.028	183.522	183.568	183.820	184.494	184.537	
INVERT	182.048	182.688	182.295	182.895	182.345	182.441	182.491	182.561	182.611	182.611	182.611	180.830	180.830	180.935	181.136	182.844	182.884	182.884	183.375	183.425	183.731	184.371	184.418	184.537
FINISHED SURFACE	184.333	184.333	184.579	184.579	184.579	184.472	184.472	184.463	184.418	184.418	184.418	183.596	183.596	184.089	184.270	184.544	184.544	184.544	184.789	184.789	184.708	184.607	184.296	184.457
NATURAL SURFACE	184.328	184.328	184.706	184.706	184.706	185.077	185.077	185.219	185.219	185.219	185.219	183.596	183.596	183.694	184.270	184.544	184.544	184.544	184.789	184.789	184.708	184.607	184.296	184.457
CHAINAGE	0.000	73.901	0.000	8.500	4.026	11.568	20.059	20.059	20.059	92.314	92.314	0.000	9.013	10.459	34.534	35.034	35.034	93.646	130.557	130.557	0.000	2.475	9.561	

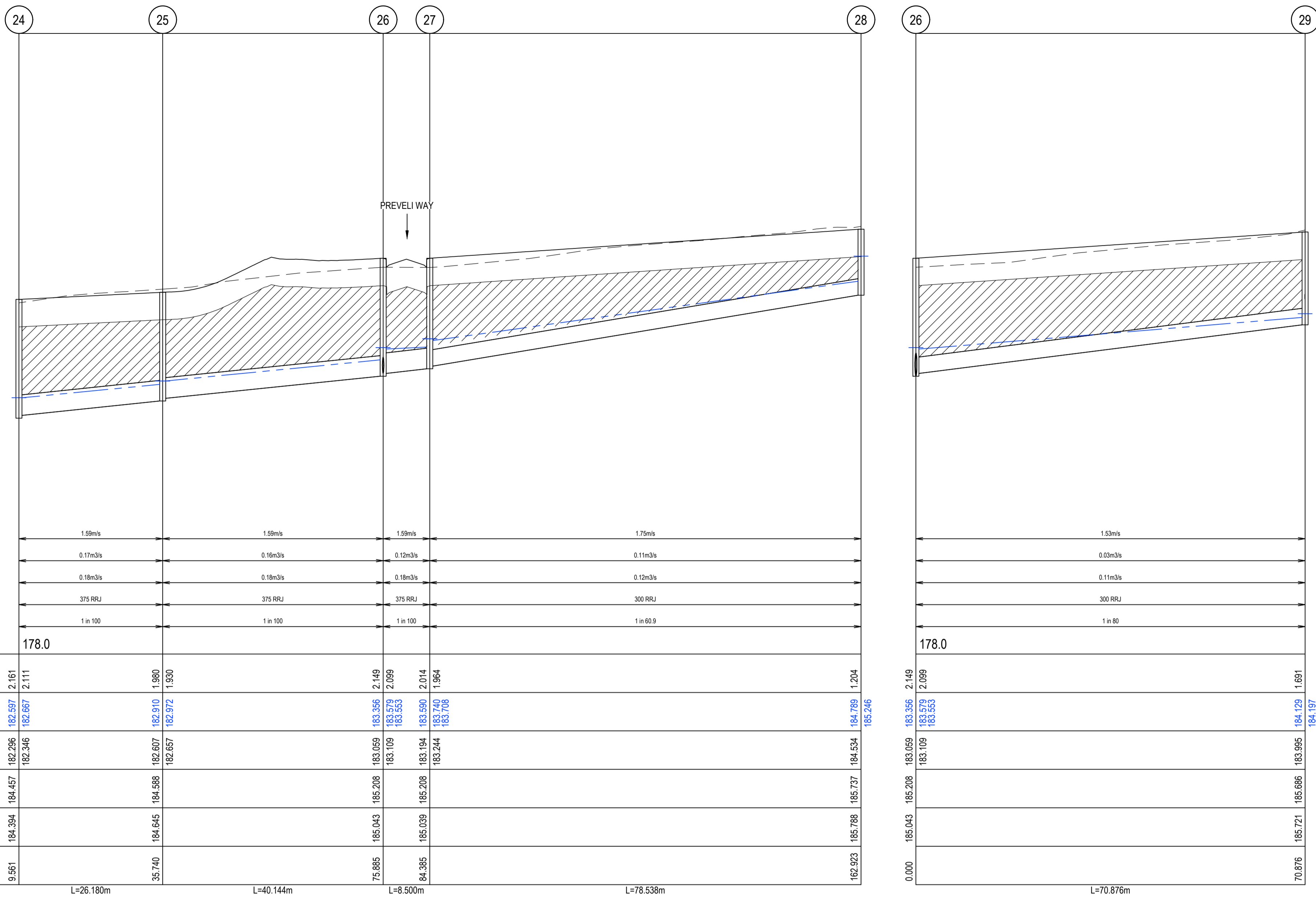
### DRAINAGE LONGITUDINAL SECTIONS

SCALE A1 - 1:500H 1:50V



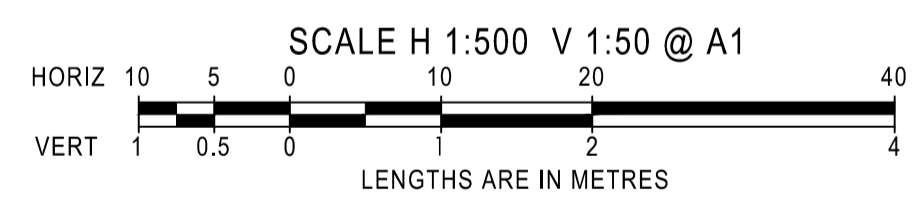
- LEGEND:**
- INDICATES CRUSHED ROCK BACKFILL
  - INDICATES 5 YEAR HGL
  - INDICATES 10 YEAR HGL

		<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MUNICIPALITY <b>MACEDON RANGES</b>		MELWAY REF. - SURVEY B.P.D. DESIGN B.P.D.		<b>RATHDOWNE ESTATE</b> <b>STAGE 31</b> DRAINAGE LONGITUDINAL SECTIONS - SHEET 2	
AMENDMENTS A 25/08/23 ISSUE FOR CONSTRUCTION		DRAWN M.T. CHECKED R.Gould-Williams		REFERENCE <b>9987 E/31</b>	
VER DATE REMARKS		SCALE AS SHOWN DATUM AHD		DATE Aug 23 SHEET 15 OF 18 A	



### DRAINAGE LONGITUDINAL SECTIONS

SCALE A1 - 1:500H 1:50V



**LEGEND:**

- INDICATES CRUSHED ROCK BACKFILL
- INDICATES 5 YEAR HGL
- INDICATES 10 YEAR HGL

AMENDMENTS		 <b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east. 3123 telephone 8823 2300 fax no. 8823 2310	
				MUNICIPALITY <b>MACEDON RANGES</b>	
A		MELWAY REF. -	<b>RATHDOWNE ESTATE</b> <b>STAGE 31</b> DRAINAGE LONGITUDINAL SECTIONS - SHEET 3		REFERENCE <b>9987 E/31</b>
VER		DATE			DATE
A		25/08/23	ISSUE FOR CONSTRUCTION	DATE	Aug 23
VER		DATE	REMARKS	CHECKED R.Gould-Williams	SCALE AS SHOWN DATUM AHD

Printed Aug 25, 2023 - 10:53am




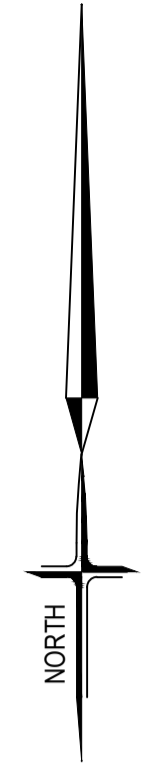
**PIT SCHEDULE**

PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET		OUTLET		TOP	DEPTH	REMARKS
				INVERT	DIA	INVERT	DIA	PIT RL	INVERT	
1	EXISTING SIDE ENTRY PIT			181.169	450			183.44	2.321	
2	JUNCTION PIT	900	600	181.619	450	181.569	450	183.837	2.269	EDCM STD DRG 605
3	SIDE ENTRY PIT	900	600	181.784	450	181.734	450	183.871	2.137	EDCM STD DRG 601
4	SIDE ENTRY PIT	900	600	182.019	300	181.869	450	183.881	2.011	EDCM STD DRG 601
				181.919	450					
5	SIDE ENTRY PIT	900	600	182.184	300	182.134	300	184.301	2.166	EDCM STD DRG 601
				182.184	300					
6	JUNCTION PIT	900	600	184.168	300	184.118	300	185.618	1.5	EDCM STD DRG 605
7	SIDE ENTRY PIT	900	600			184.253	300	185.607	1.354	EDCM STD DRG 601
8	SIDE ENTRY PIT	900	600			182.354	300	184.301	1.946	EDCM STD DRG 601
9	JUNCTION PIT	900	600	182.123	375	182.048	450	184.333	2.285	EDCM STD DRG 605
9	JUNCTION PIT	900	600	182.898	300			184.333	2.285	EDCM STD DRG 605
10	JUNCTION PIT	900	600	182.37	300	182.295	375	184.579	2.284	EDCM STD DRG 605
				182.895	300					
				182.345	300					
11	SIDE ENTRY PIT	900	600	182.626	300	182.576	300	184.746	2.171	EDCM STD DRG 601
12	SIDE ENTRY PIT	900	600	183.337	300	183.287	300	185.065	1.778	EDCM STD DRG 601
13	JUNCTION PIT	900	600			184.376	300	185.743	1.367	EDCM STD DRG 605
14	SIDE ENTRY PIT	900	600			182.98	300	184.579	1.599	EDCM STD DRG 601
15	SIDE ENTRY PIT (DOUBLE GRATED)	900	600	182.491	300	182.441	300	184.472	2.032	EDCM STD DRG 602
16	SIDE ENTRY PIT (DOUBLE GRATED)	900	600	182.611	300	182.561	300	184.463	1.902	EDCM STD DRG 602
17	JUNCTION PIT	900	600			184.418	300	185.754	1.336	EDCM STD DRG 605
18	END OF PIPE			180.83	300			183.979	3.149	DIRECT PIPE CONNECTION TO EXISTING 1050dia PIPE
19	GRATED ENTRY PIT	900	600	182.635	300	180.935	300	184.089	3.154	EDCM STD DRG 605 (CLASS D GRATED COVER)
20	GRATED ENTRY PIT	900	600	182.894	300	182.844	300	184.27	1.427	EDCM STD DRG 605 (CLASS D GRATED COVER)
21	JUNCTION PIT	900	600	183.425	300	183.375	300	184.544	1.168	EDCM STD DRG 605
22	JUNCTION PIT	900	600			183.731	300	184.708	0.977	EDCM STD DRG 605
23	END OF PIPE			182.2	375			184.162	2.791	CONNECT TO EXISTING SIDE ENTRY PIT
24	GRATED ENTRY PIT	900	600	182.346	375	182.296	375	184.457	2.161	EDCM STD DRG 605
25	GRATED ENTRY PIT	900	600	182.657	375	182.607	375	184.588	1.98	EDCM STD DRG 605 (CLASS D GRATED COVER)
26	SIDE ENTRY PIT	900	600	183.109	375	183.059	375	185.208	2.149	EDCM STD DRG 601
				183.109	300					
27	SIDE ENTRY PIT	900	600	183.244	300	183.194	375	185.208	2.014	EDCM STD DRG 601
28	EXISTING JUNCTION PIT					184.534	300	185.737	1.204	CONNECT TO EXISTING JUNCTION PIT
29	JUNCTION PIT	900	600			183.995	300	185.686	1.691	EDCM STD DRG 605
30	SIDE ENTRY PIT	900	600			183.424	300	185.059	1.634	EDCM STD DRG 601

**STORMWATER PIT NOTES:**

- ALL PITS TO BE RENDERED & MORTARED WITH FLAT BASE (NO CHASE). PIT BASES ARE TO BE FLUSH WITH PIPE INVERTS
- ALL PIPES TO BE CUT FLUSH WITH PIT WALL
- ALL PIT COVERS TO BE FIBRE GLASS TYPE ONLY
- ALL GRATED PIT COVERS TO BE PEDESTRIAN & CYCLIST SAFE

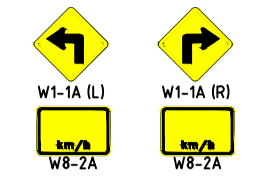
		 <b>breese pitt dixon pty. ltd.</b> land surveyors      civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310					
				MUNICIPALITY <b>WHITTLESEA</b>					
		MELWAY REF. -		<b>RATHDOWNE ESTATE STAGE 31 DRAINAGE PIT SCHEDULE</b>					
		SURVEY B.P.D.							
		DESIGN B.P.D.							
		DRAWN M.T.		REFERENCE 9365 E/31					
AMENDMENTS	VER	DATE	REMARKS	CHECKED R.Gould-Williams	SCALE AS SHOWN	DATUM AHD	DATE Aug 23	SHEET 17 OF 18	A




**LEGEND - SIGNAGE**

**A** STREET SIGNS

**B** TURN SIGNS (W1-1AL & W1-1AR) - CLASS 1 WITH 20km/h SPEED ADVISORY SIGN (W8-2A)




**C**  GIVE WAY SIGN - CLASS 1

**NOTES:**

a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE WITH A MINIMUM OF 2 WEDGES

b) ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH MCC205

c)  INDICATES UNI-DIRECTIONAL & BI-DIRECTIONAL RRPM'S PLACED AT 3m CTRS

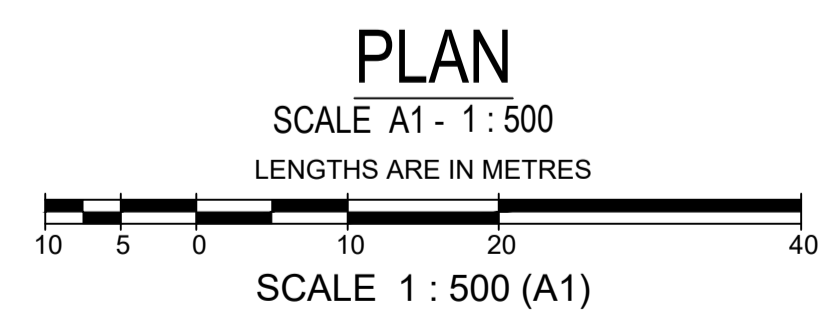
d) SWLM - INDICATES SOLID WHITE 'LONGLIFE' LINEMARKING. BWLM - INDICATE BROKEN WHITE 'LONGLIFE' LINEMARKING




BCS CONSERVATION RESERVE NO-GO AREA

TGSI'S TO BE IN ACCORDANCE WITH CITY OF WHITTLSEA SD 320

TGSI'S TO BE IN ACCORDANCE WITH CITY OF WHITTLSEA SD 320



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MELWAY REF. - SURVEY B.P.D. DESIGN B.P.D. DRAWN M.T.		<b>RATHDOWNE ESTATE</b> <b>STAGE 31</b> <b>SIGNAGE &amp; LINEMARKING PLAN</b>	
MUNICIPALITY <b>WHITTLSEA</b>		REFERENCE <b>9365 E/31</b>	
AMENDMENTS	CHECKED R.Gould-Williams	SCALE AS SHOWN DATUM AHD	DATE Aug 23 SHEET 18 OF 18 A

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