



Our Reference: 6805304

3 February 2021

Christopher Hagen
Breese Pitt Dixon Pty Ltd
U 1 19 Cato Streeta
Hawthorn East VIC 3123

Dear Chris,

PA 2017/5637 Aspire Estate Stage 26A – Engineering Plans - Approval

The above-mentioned plans, received by Council on 1 February 2021, are conditionally approved. Please find attached the approved stamped road & drainage plans.

Drawing Reference: 8226 E/26A

Sheet No.	Revision
1 of 19 to 19 of 19	P3

The approval is subject to compliance of all statutory and legal obligations and granted with the understanding that the engineering consultant, developer and land owner take full responsibility for the design contained in the approved engineering plans.

Please note the following:

- The approval of these plans is valid for one year. Where construction does not commence within that time, the plans must be resubmitted to Council for assessment using applicable engineering standards at the time of resubmission. New plan checking fees will also be applicable.
- No construction works can commence outside the development's property boundaries unless or until consent is provided by the adjoining land owner.
- A 'Consent to Work Within a Road Reserve' must be applied for where works will be done on an existing road. The form is available on Melton Council's website link <https://www.melton.vic.gov.au/Services/Building-Planning-Transport/Engineering/Engineering-applications>
- A Traffic Management Plan must be submitted where works will occur on existing roads, and where the works are traffic impact works, it must be approved by Council's Traffic team before works commence. The form is available on Melton Council's website link <https://www.melton.vic.gov.au/Services/Building-Planning-Transport/Engineering/Engineering-applications>

- Construction works must not commence on site until all relevant planning permit conditions have been satisfied. Email queries to planningsupport@melton.vic.gov.au
T: 03 9747 7200.

All Service Authority plans must be approved by the responsible authorities prior to the subbase of the road pavement being constructed. Included plans are:

- Water main reticulation plans including the location and capacity (pressure and flow) of fire hydrants and hydrant mains;
- Sewer main reticulation plans;
- Recycled water reticulation plans (where applicable);
- Public Lighting plans, utilising Public Lighting Guidelines and form on www.melton.vic.gov.au/Infrastructure-Planning; and
- Other relevant service plans, as applicable.

The above plans must be submitted in PDF format (one email per type of plan) to serviceauthority@melton.vic.gov.au

- If required as part of the planning permit conditions for the above mentioned project, Construction Environmental Management plans (CEMP) must be submitted to Council *prior* to requesting a Civil Works pre-commencement meeting. Please note that plans should:
 - Include Planning Permit Application and Planning Permit Condition # - PA 2017/5637
 - Adhere to requirements of endorsed planning permit conditions.
 - Be simply presented and easy to understand.
 - Include an overall site context plan which shows where the site is located
E.g. roads labelled
 - Address all relevant environmental risks of the works.
 - Include haulage route.
 - **Include statements:**
 - A water truck will be available for dust suppression on site *at all times* and at the direction of the Council Construction Supervisor.
 - Working hours will be 7.00am or sunrise, whichever is the latter to 5.00pm week days.
 - Exclude any reference to use of straw bales, as not best practice.
 - Be In PDF format (to appropriate scale) from original document.

Note: do not scan document into PDF, as can be illegible.

Please submit CEMP with relevant information to Email: emp@melton.vic.gov.au

- A Pre-commencement Meeting Application must be emailed to Council to request approval to start work via Email: construction@melton.vic.gov.au
- As Constructed (As Con) plans must be received by Council prior to requesting a Practical Completion (PC) Inspection. To proceed, submit a PC Application form to
Email: construction@melton.vic.gov.au

Where required by planning permit conditions, A-SPEC digital data should be submitted and *verified* as correct by Council's Asset Management/GIS team prior to the Statement of Compliance (SOC) being issued. Submit A-Spec data to Email: assetspecs@melton.vic.gov.au

All correspondence submitted to Council must include a covering letter detailing:

- ✓ Full business name, address, contact name, email and telephone number for responses;
- ✓ Planning Application Number (PA 2017/5637);
- ✓ Estate name and Stage # or Project Name and address;
- ✓ Description of submission (E.g. Construction Environmental Management Plan) and any changes/ response to prior Council correspondence;

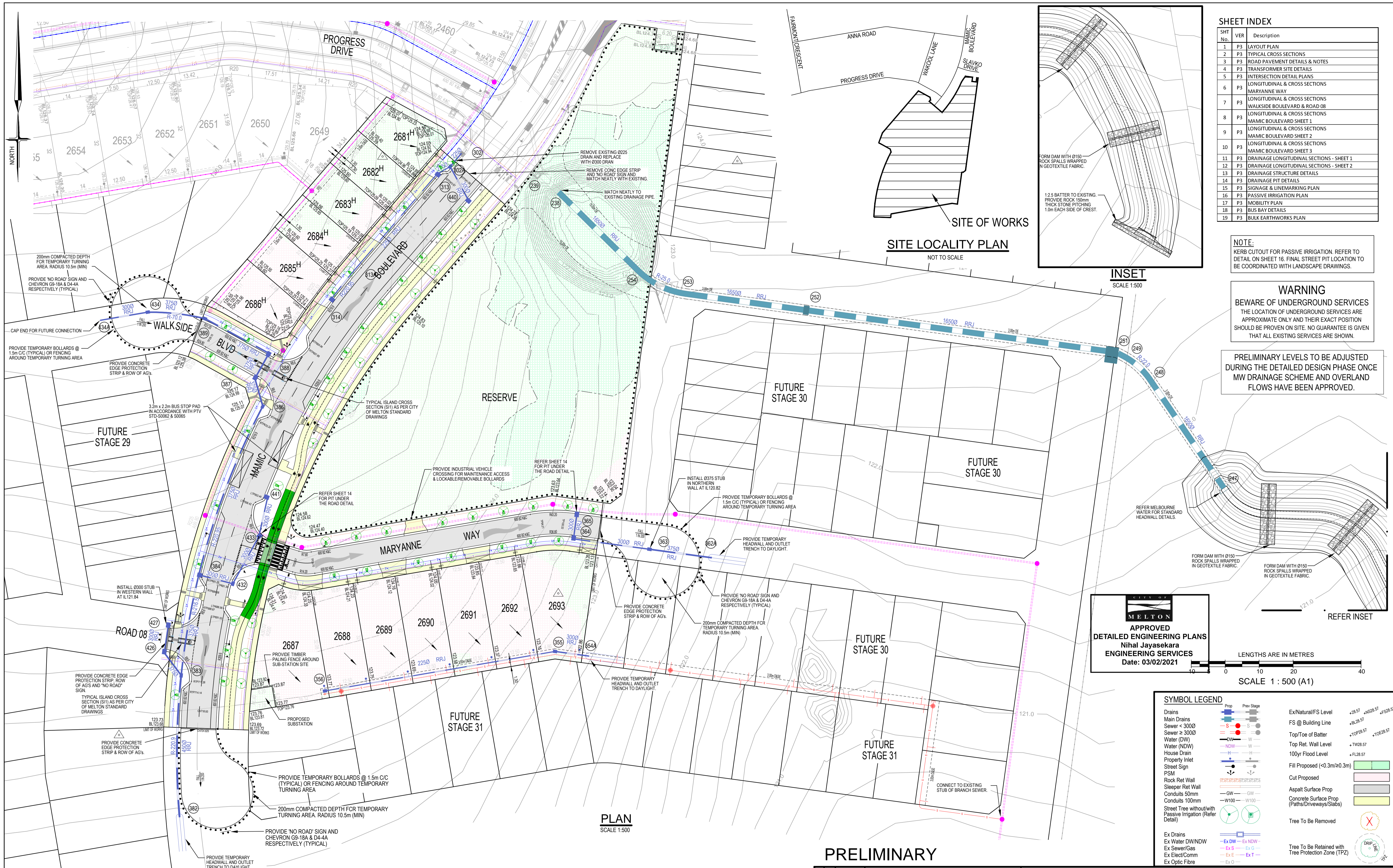
Submissions should follow processes outlined above and utilise forms on website www.melton.vic.gov.au/Infrastructure-Planning unless another web link is listed.

Should you have any queries, please contact me at Email: nihalj@melton.vic.gov.au or
T: 03 9747 7101

Regards,

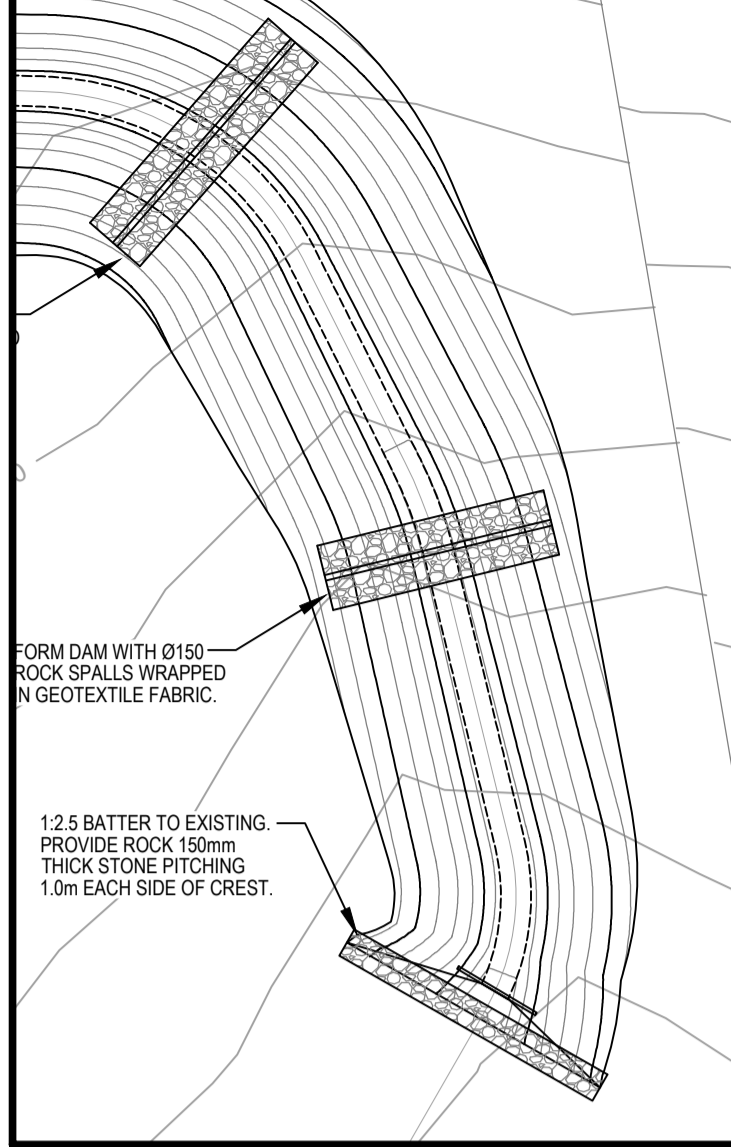
A handwritten signature in blue ink, appearing to read 'Nihal Jayasekara', with a horizontal line underneath.

Nihal Jayasekara
DEVELOPMENT ENGINEER



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19	P3	BULK EARTHWORKS PLAN



NOTE:
KERB CUTOFF FOR PASSIVE IRRIGATION. REFER TO DETAIL ON SHEET 16. FINAL STREET PIT LOCATION TO BE COORDINATED WITH LANDSCAPE DRAWINGS.

WARNING
BWARE 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.

PRELIMINARY LEVELS TO BE ADJUSTED
DURING THE DETAILED DESIGN PHASE ONCE MW DRAINAGE SCHEME AND OVERLAND FLOWS HAVE BEEN APPROVED.

MELTON
APPROVED
DETAILED ENGINEERING PLANS
Nihal Jayasekara
ENGINEERING SERVICES
Date: 03/02/2021

LENGTHS ARE IN METRES
SCALE 1 : 500 (A1)

SYMBOL LEGEND

Drains	Prop	Prev Stage	Ex/Natural/FS Level	+28.57	+28.28.57	+28.28.57
Main Drains	S	S	FS @ Building Line	+28.28.57	+28.28.57	+28.28.57
Sewer < 3000	S	S	Top/Toe of Batter	+28.28.57	+28.28.57	+28.28.57
Sewer ≥ 3000	S	S	Top Ret. Wall Level	+28.28.57	+28.28.57	+28.28.57
Water (DW)	DW	W	100yr Flood Level	+28.28.57	+28.28.57	+28.28.57
Water (NDW)	DW	W	Fill Proposed (<0.3m/±0.3m)			
House Drain	H	H	Cut Proposed			
Property Inlet	P	P	Asphalt Surface Prop			
Street Sign	S	S	Concrete Surface Prop (Paths/Driveways/Slabs)			
P3M	P3M	P3M	Tree To Be Removed			
Rock Ret Wall	R	R	Tree To Be Retained with Tree Protection Zone (TPZ)			
Sleeper Ret Wall	S	S				
Conduits 50mm	GW	GW				
Conduits 100mm	W100	W100				
Street Tree without/with Passive Irrigation (Refer Detail)	T	T				
Ex Drains	Ex DW	Ex DW				
Ex Water DW/NDW	Ex DW	Ex NDW				
Ex Sewer/Gas	Ex S	Ex G				
Ex Elect/Comm	Ex E	Ex T				
Ex Optic Fibre	Ex O	Ex O				

PLAN
SCALE 1:500

PRELIMINARY

ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM CO-ORDINATES SHOWN.
- WHERE CONCRETE WORKS ABOUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVAL MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.

SERVICE OFFSETS AND LOCATION TABLE

Location	Gas	Water		Telecommunications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
		DW	DW	Cables	Pits	Cables	Poles				
MAMIC BOULEVARD	2.10 W	2.60 W	1.95 E	1.95 W	2.70 E	1.00 BOK	VARIABLES	25.00	G&W, FTTH&E	CONNECTOR STREET	
WALKSIDE BOULEVARD	2.10 N	2.60 N	1.80 S	1.80 S	2.30 S	1.00 BOK	4.20 N 4.20 S	16.00	G&W, FTTH&E	ACCESS PLACE	
MARYANNE WAY	2.25 S	2.75 S	1.80 S	1.80 S	2.95 N*	0.90 BOK	4.20 S 3.70 N	15.50	G&W	ACCESS PLACE	
ROAD 08	2.10 N	2.60 N	1.80 S	1.80 S	2.30 S	1.00 BOK	4.20 N 4.20 S	16.00	G&W, FTTH&E	ACCESS PLACE	

NOTE: * OFFSET FROM BACK OF KERB

breese pitt dixon pty. ltd.
land surveyors civil engineers

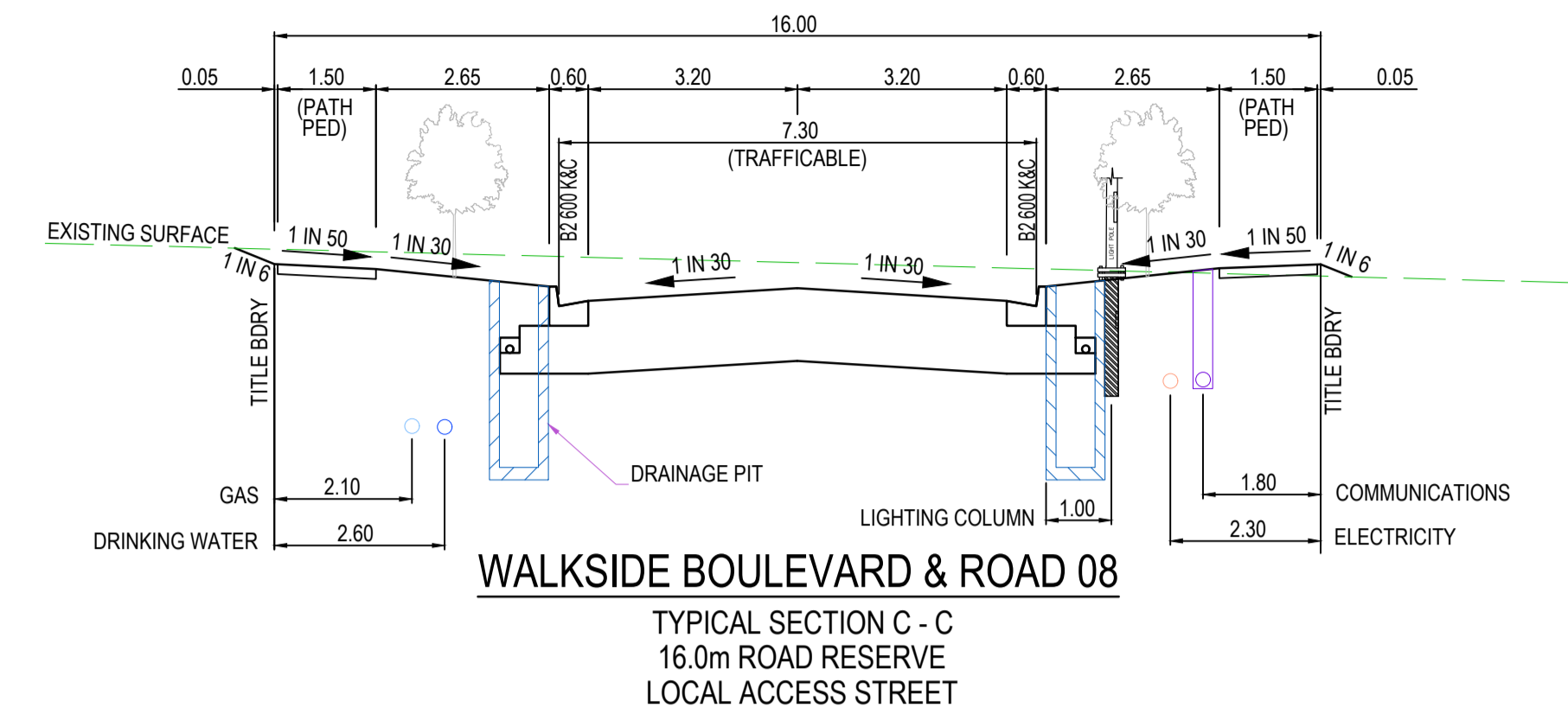
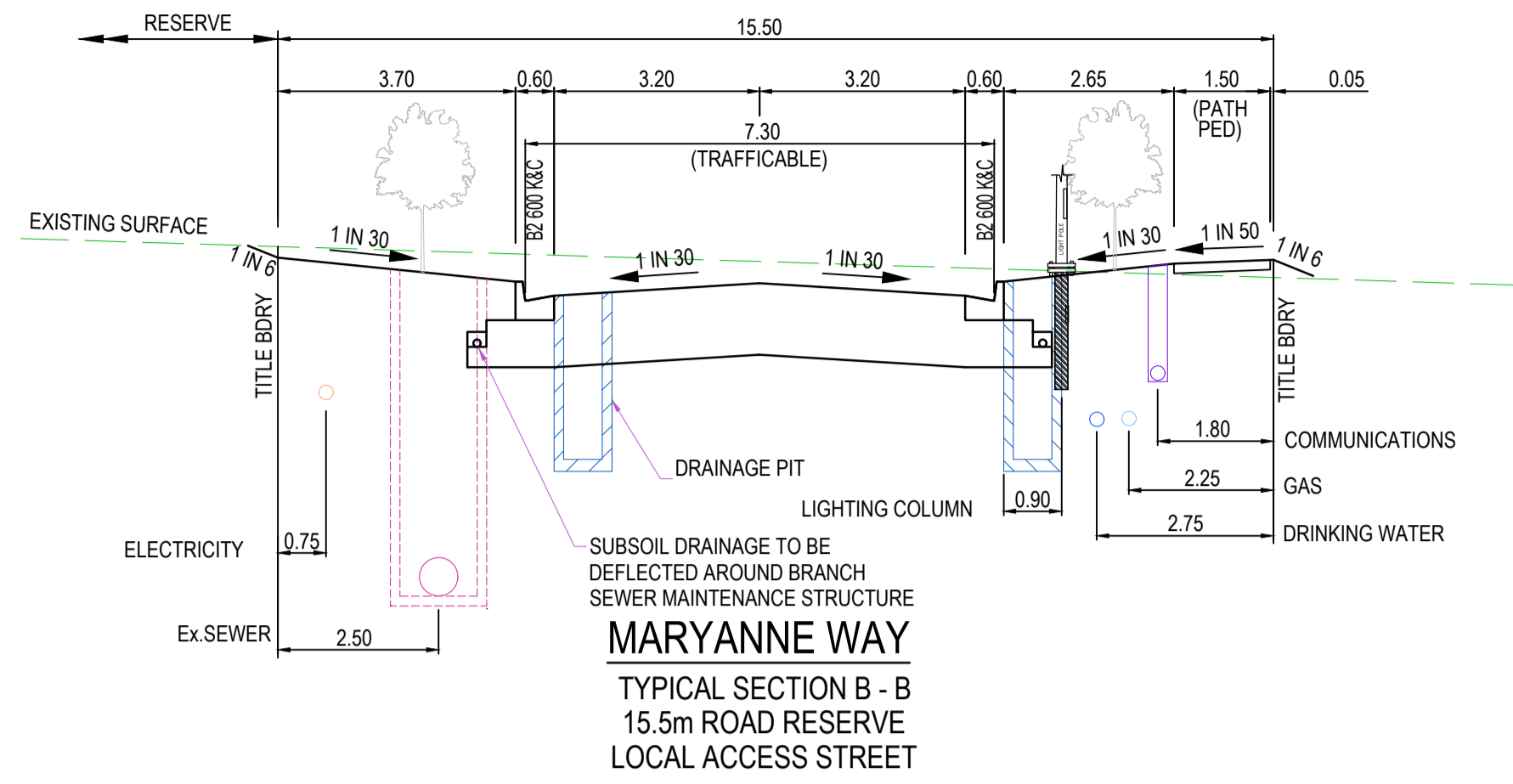
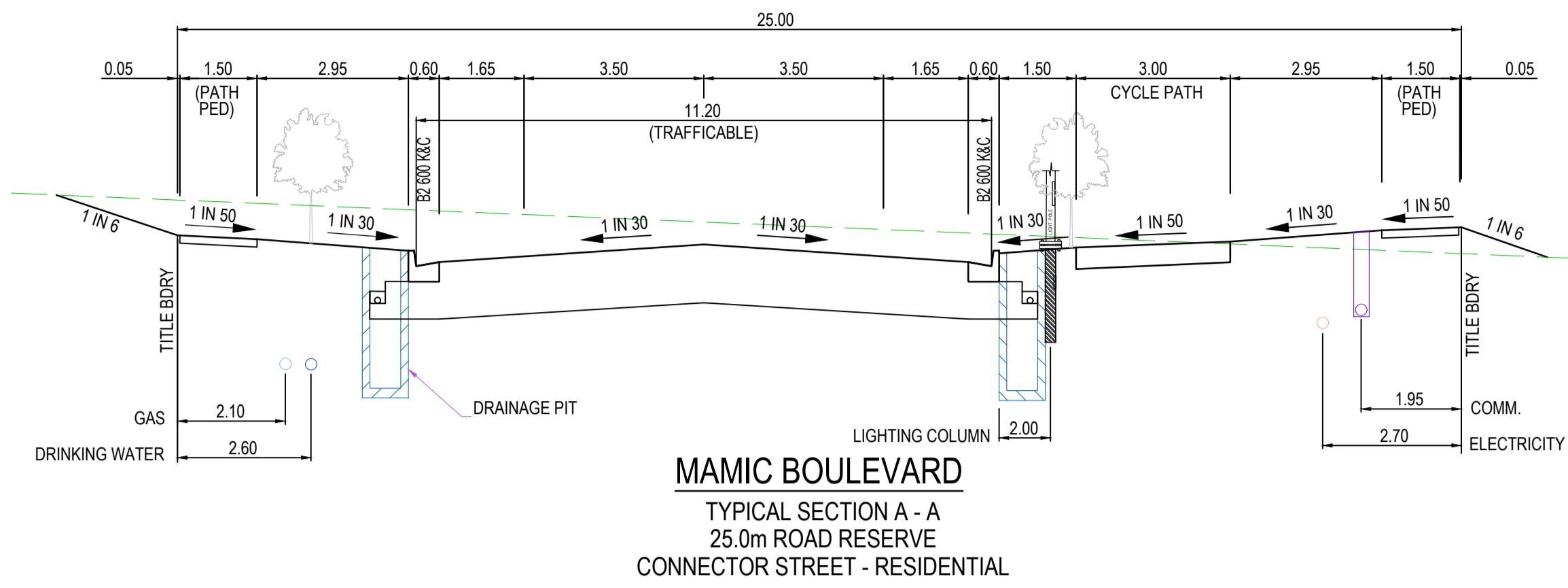
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

ASPIRE ESTATE
STAGE 26A
LAYOUT PLAN

MELWAY REF. 354-C-12
SURVEY BPD
DESIGN J.B
DRAWN I.W

MUNICIPALITY
MELTON
REFERENCE
8226 E/26A

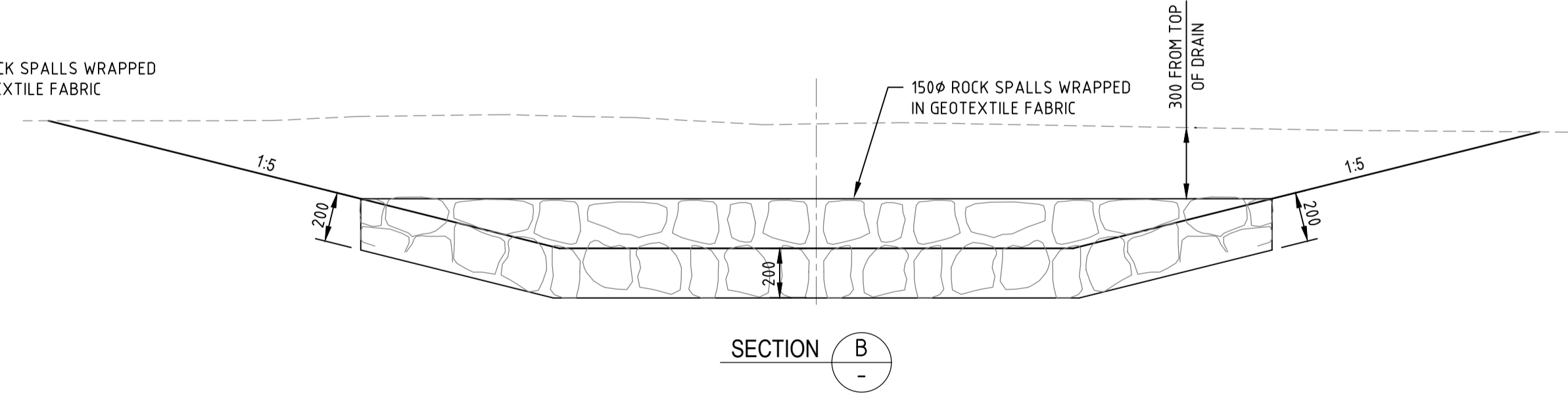
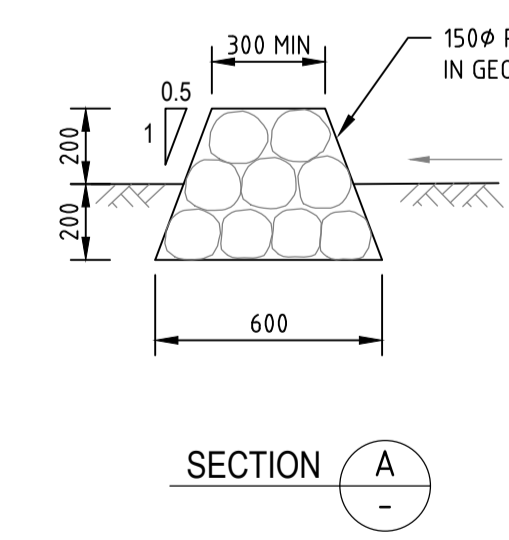
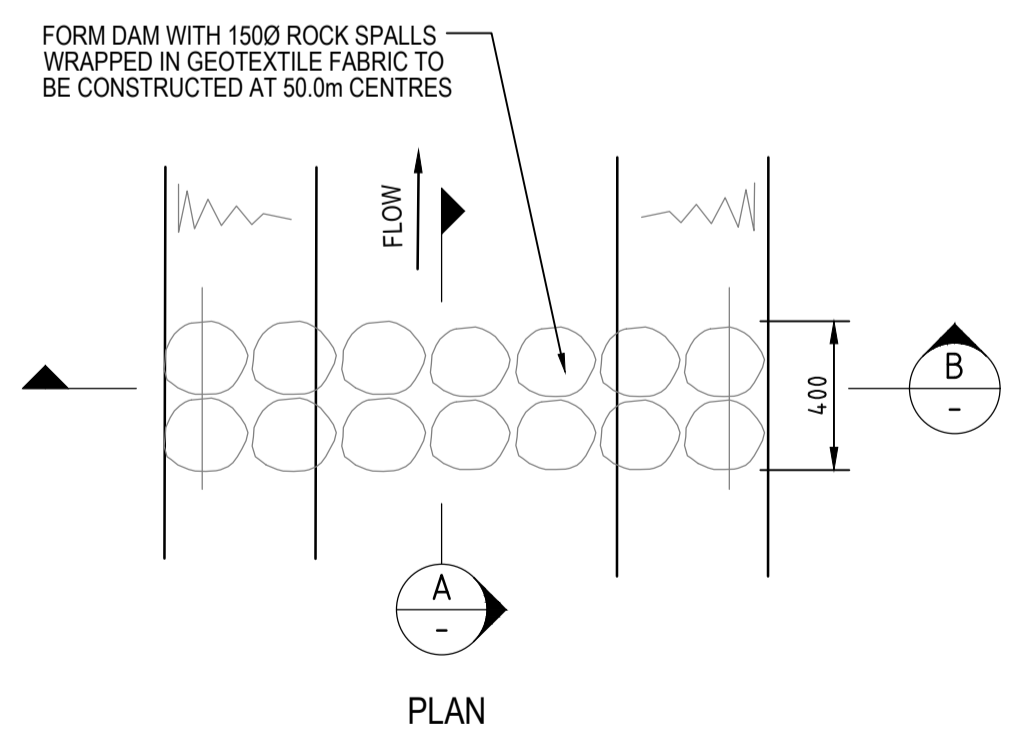
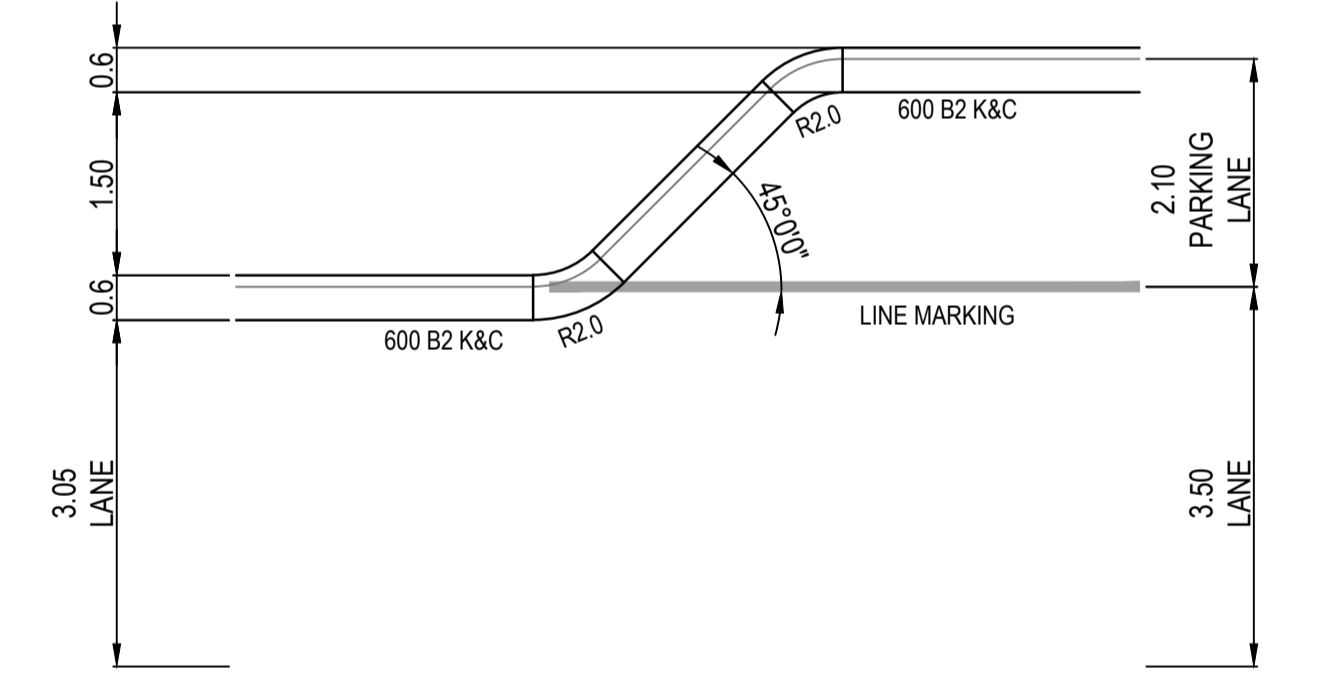
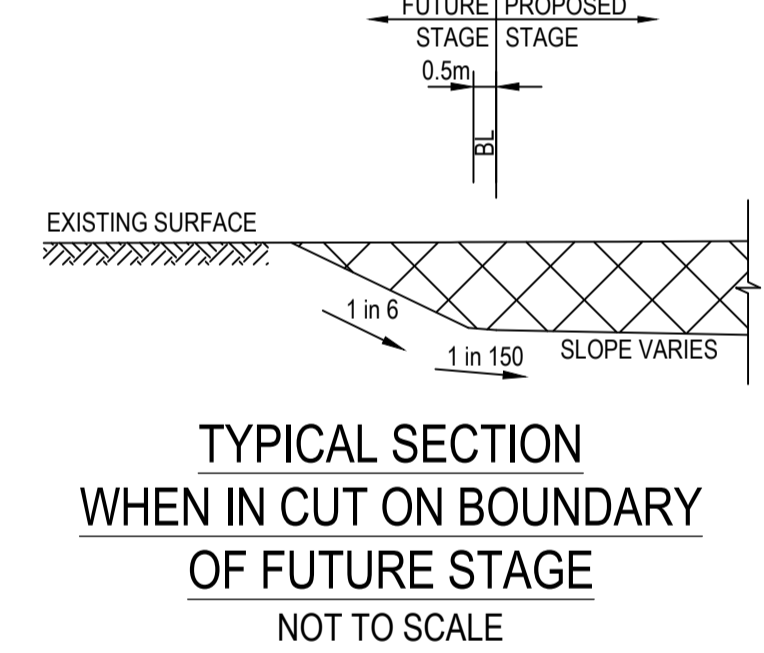
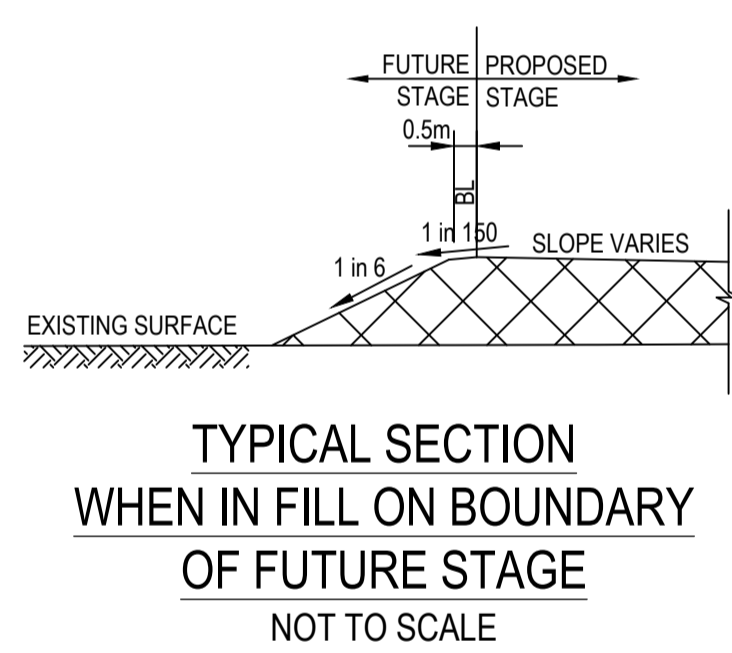
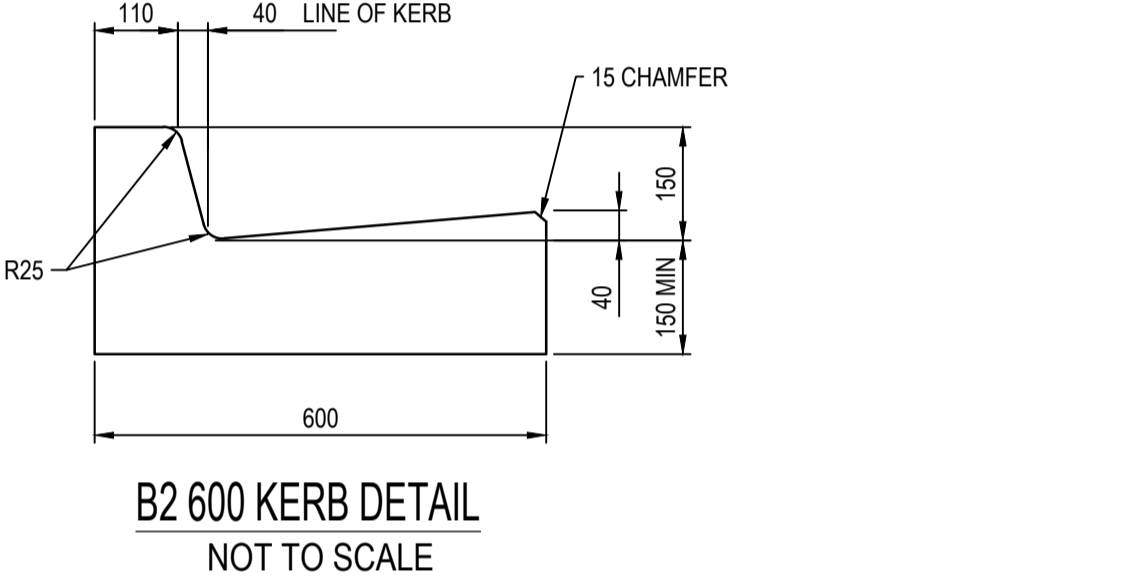
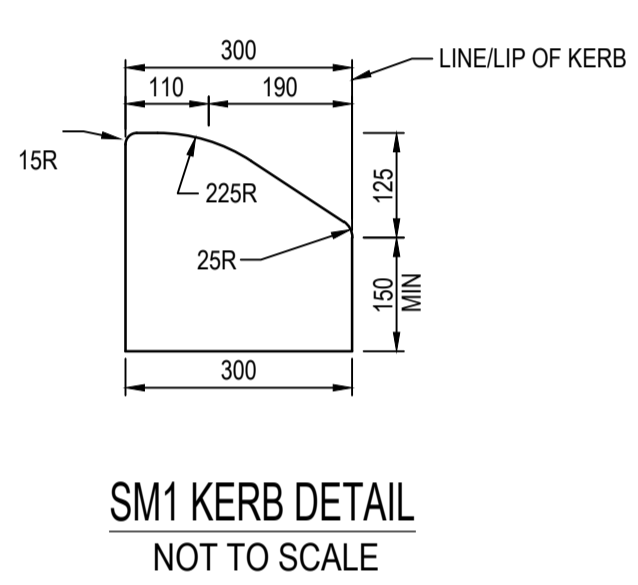
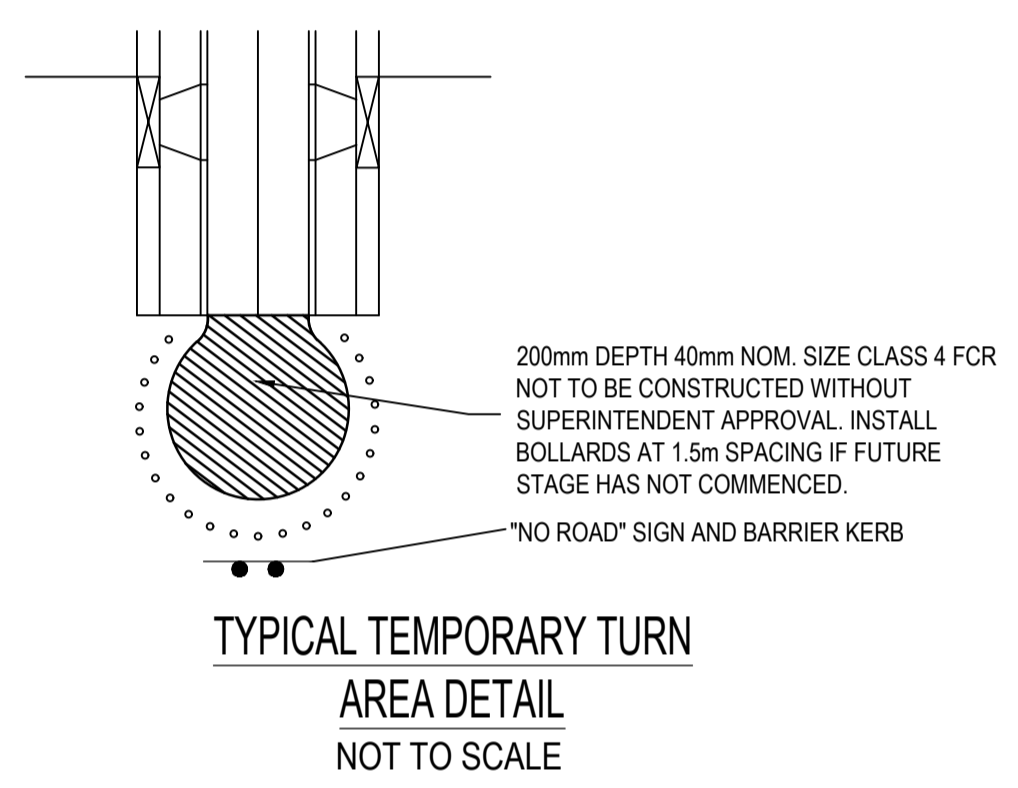
VER DATE REMARKS CHECKED - SCALE AS SHOWN DATUM AHD DATE - SHEET 01 OF 19 P3



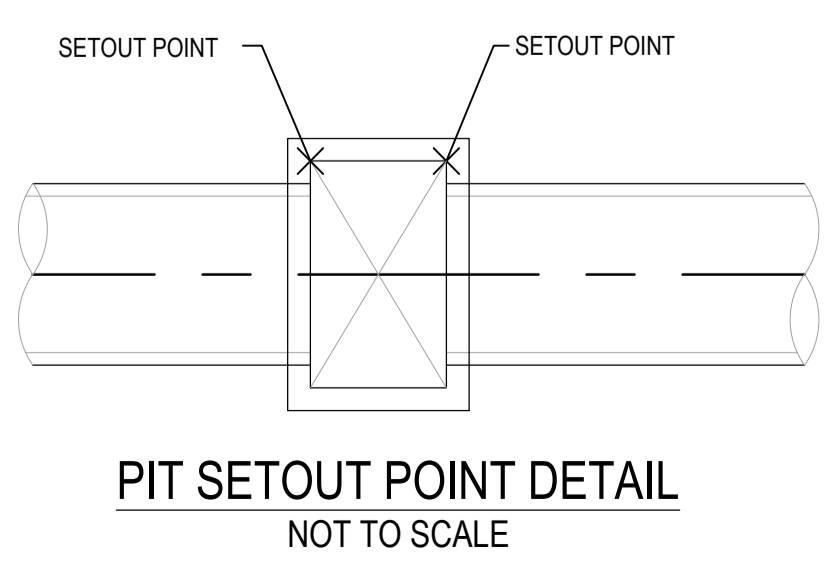
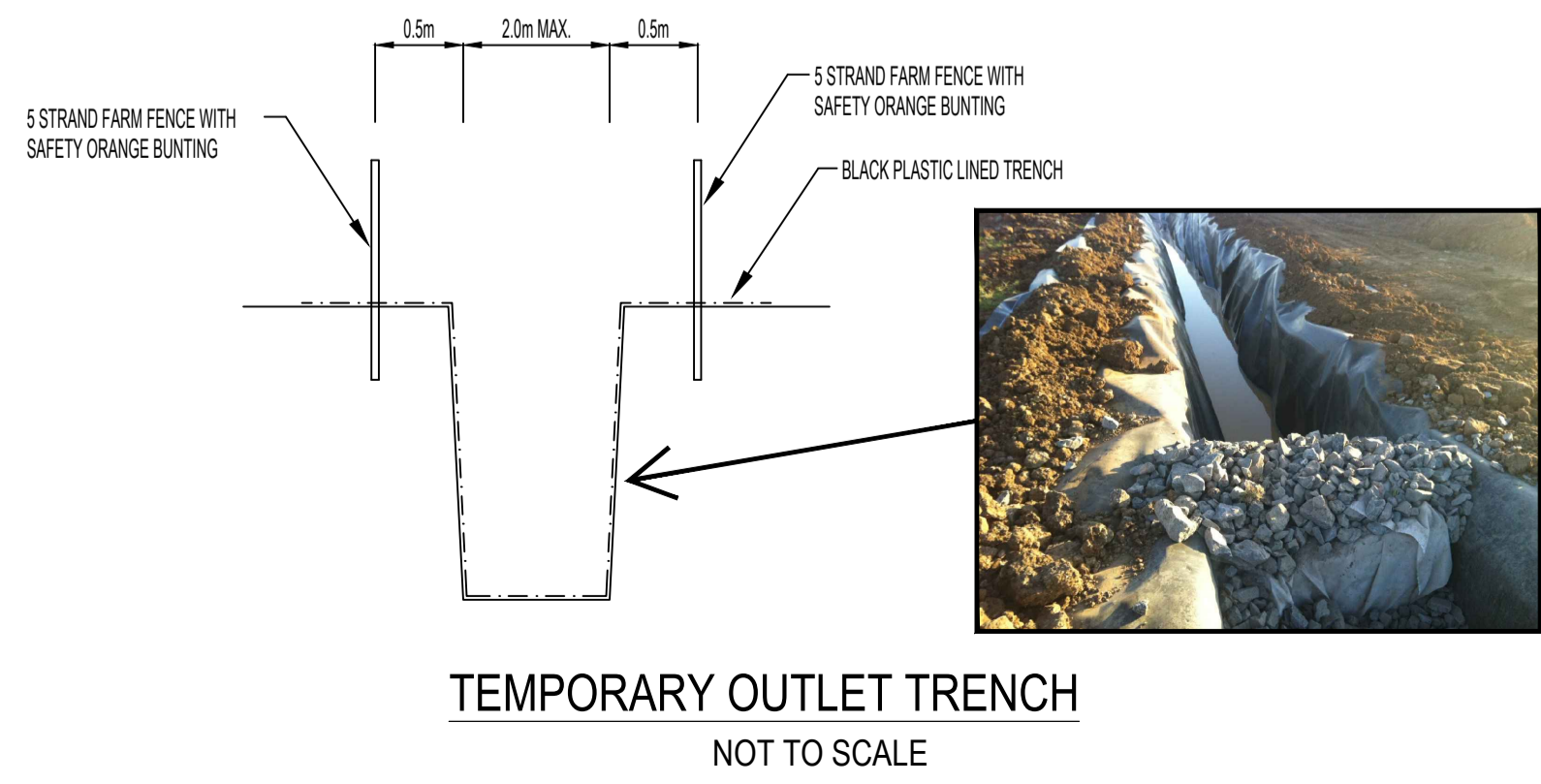
TYPICAL CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50



MELTON
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DETAILED ENGINEERING PLANS
Nihal Jayasekera
ENGINEERING SERVICES
Date: 03/02/2021

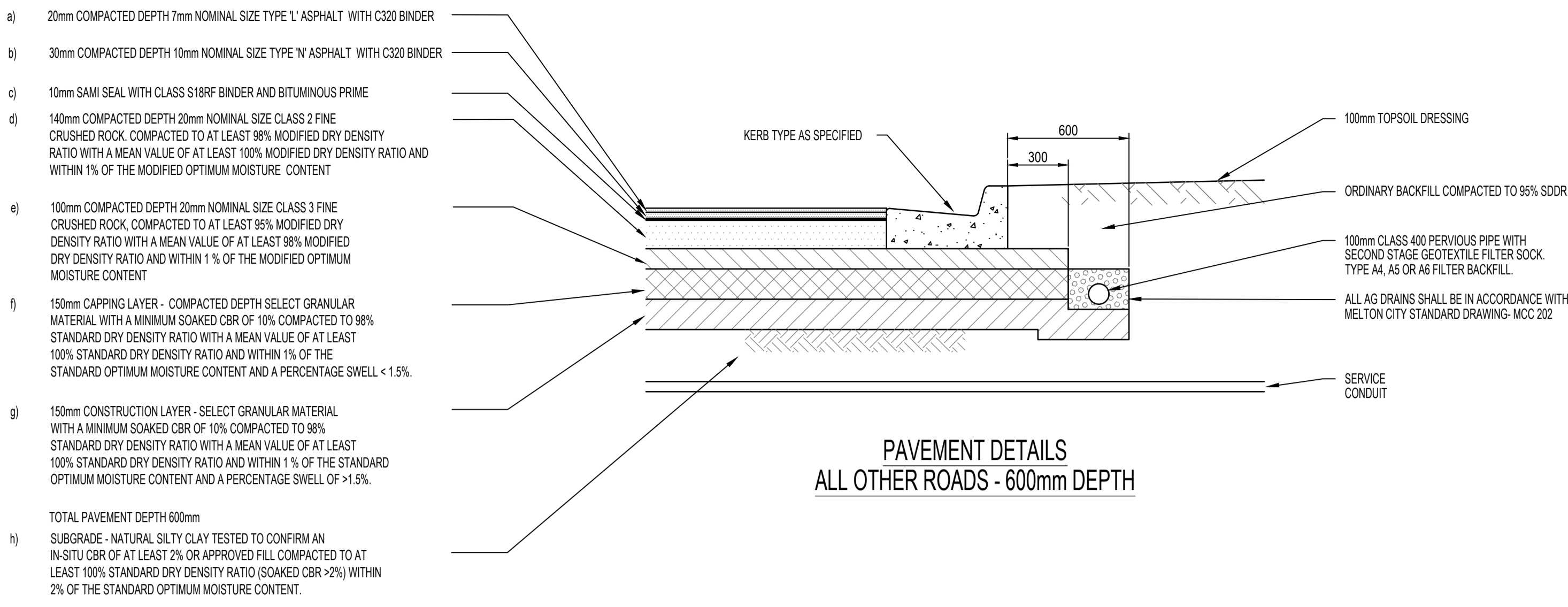


ROCK PITCHED SCOUR/SPLIT CONTROL CHECK DAM
NTS

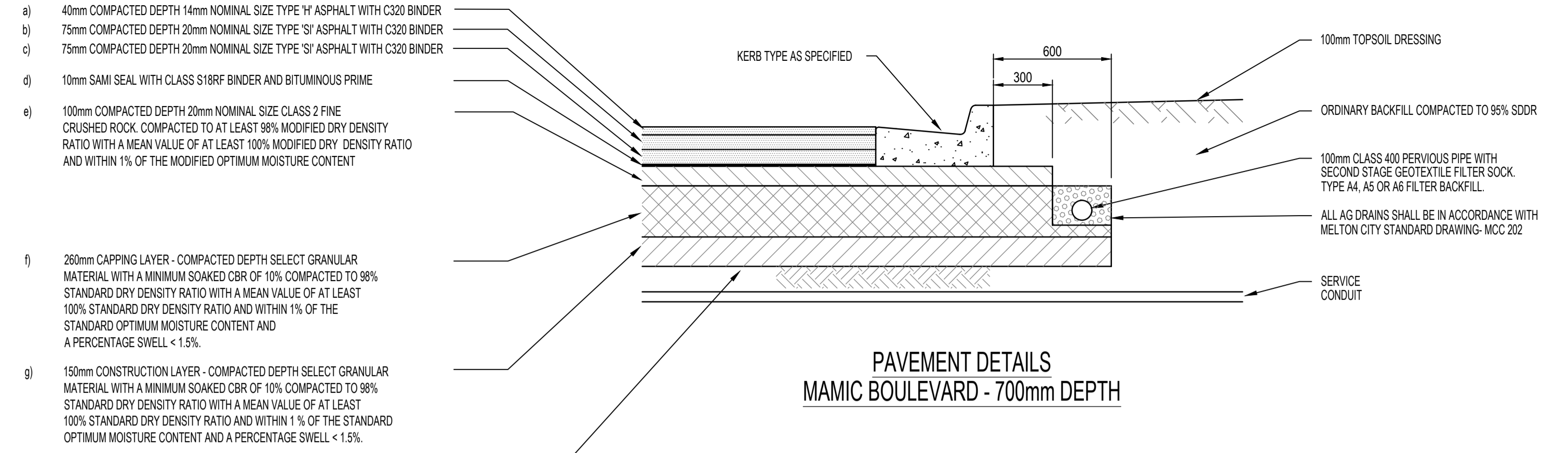


PRELIMINARY

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. 354-C-12		ASPIRE ESTATE STAGE 26A TYPICAL CROSS SECTIONS		MUNICIPALITY	
SURVEY BPD				MELTON	
DESIGN J.B				REFERENCE	
DRAWN I.W		8226 E/26A		SHEET 02 OF 19 P3	
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD

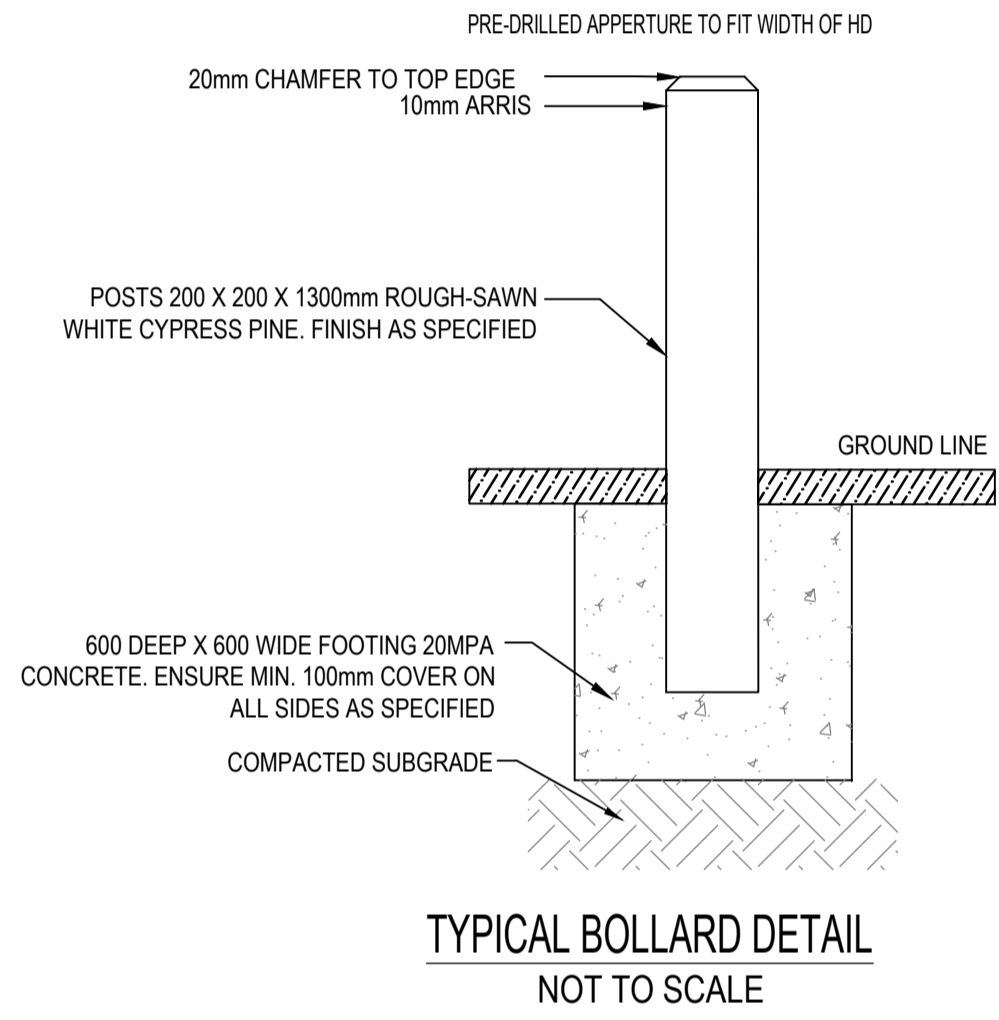


**PAVEMENT DETAILS
ALL OTHER ROADS - 600mm DEPTH**

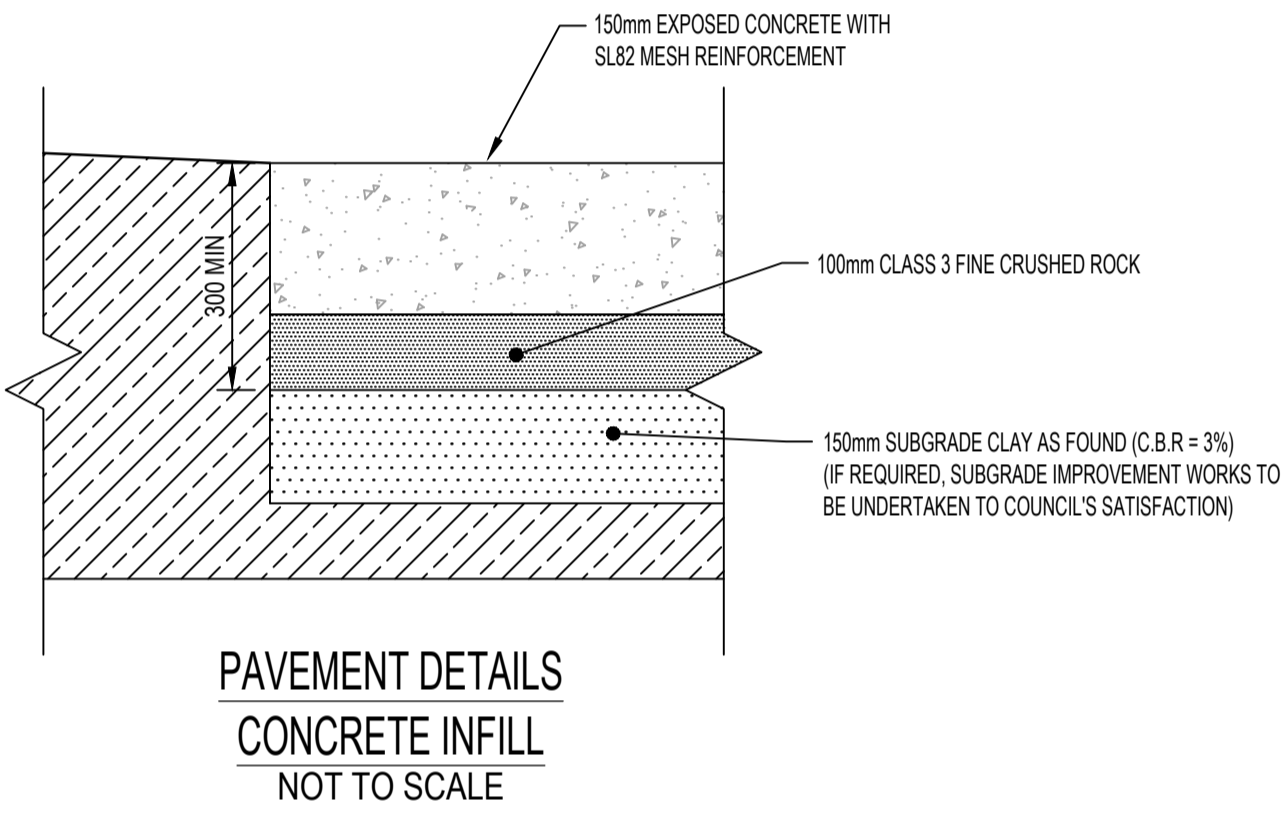


**PAVEMENT DETAILS
MAMIC BOULEVARD - 700mm DEPTH**

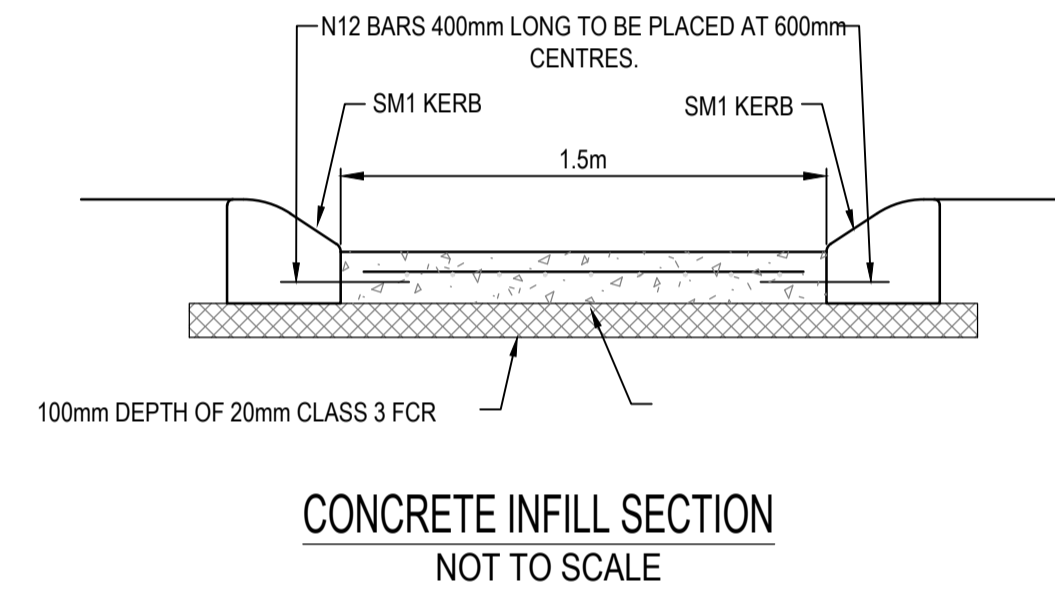
MELTON
**APPROVED
 DETAILED ENGINEERING PLANS**
 Nihal Jayasekara
 ENGINEERING SERVICES
 Date: 03/02/2021



**TYPICAL BOLLARD DETAIL
NOT TO SCALE**



**PAVEMENT DETAILS
CONCRETE INFILL
NOT TO SCALE**



**CONCRETE INFILL SECTION
NOT TO SCALE**

SPECIFICATION FOR SAMI SEAL

THE SAMI TREATMENT SHOULD CONSIST OF A SIZE 10 SPRAYED SEAL USING CLASS S18RF BITUMEN CRUMB RUBBER BINDER PLACED AT AN APPLICATION RATE > 1.8/m² AND COVERED WITH A LIGHT APPLICATION OF PRE-COATED SIZE 10 AGGREGATE. THE CLASS S18RF BINDER SHALL BE PRODUCED USING NOT LESS THAN 20 PARTS OF CRUMB RUBBER (18%) BY MASS OF BINDER. THE VOLUME OF CARRIER OIL USED BEFORE ANY CUTTING OIL IS ADDED SHALL NOT EXCEED 4 PARTS BY VOLUME OF BINDER.

IT IS IMPORTANT THAT THERE IS NO LOOSE AGGREGATE REMAINING ON THE SAMI SURFACE WHEN THE STRUCTURAL COURSE ASPHALT IS PLACED SO AS TO ENSURE A STRONG BOND BETWEEN THE SAMI TREATMENT AND THE SUBSEQUENT ASPHALT LAYER. THE SAMI TREATMENT SHALL BE PRECEDED BY PLACEMENT OF A BITUMINOUS PRIME, AND NOT A PRIMER SEAL, APPLIED TO THE UNDERLYING UNBOUND BASE MATERIAL.

GENERAL NOTES

- CONSTRUCTION PLANS MUST BE ACCOMPANIED BY THE APPROVED SPECIFICATION. NO WORK IS TO COMMENCE WITHOUT EVIDENCE OF POSSESSION OF EACH.
- ALL WORKS TO BE CARRIED OUT TO STANDARD DRAWINGS AND SPECIFICATION AS APPROVED BY CITY OF MELTON AND TO THE SATISFACTION OF THE ENGINEER AND THE MUNICIPAL ENGINEER. IN CASE OF A DISPUTE THE SPECIFICATION MUST TAKE PRECEDENCE.
- FOR SPECIFICATION REFER SPECIFICATION STAGE 1. TAYLORS HILL ESTATE (INCORPORATING UPDATED SECTION 1A)
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. MINIMUM COVER TO BE 400mm. REFER VPA STD DWGS EDMC701, EDMC702 & EDMC703.
- LOTS DENOTED THUS 25H ARE TO BE PROVIDED WITH A 100mm DIA. HOUSE DRAIN PLACED 5.5m FROM LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. REFER VPA STD DWGS EDMC701 & EDMC703.
- AGRICULTURAL PIPE DRAINS, AS PER VPA STD DWG EDMC202, TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER.
- DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS RATHER THAN FROM PIPE CHAINAGES. CENTRELINE OF PITS AT TPs TO BE OFFSET 1.00 METRE.
- ALL 150mm TO 750mm DIA. TO BE R.C.(R.RJ) AND 825mm DIA. AND GREATER TO BE R.C.(U). PIPES LAYED ON A CURVE TO BE R.RJ. ALL CONCRETE PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED.
- WHERE DRAINAGE PIPES ARE LOCATED WITHIN NATURE STRIPS, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED CLASS 3 F.C.R. UPTO A LEVEL WHERE THE 45deg. INFLUENCE LINE FROM THE B.O.K. INTERSECTS WITH THE NEAREST TRENCH SIDE. PROVIDE CRUSHED ROCK BACKFILL WHERE DRAINAGE CROSSES BELOW FOOTPATHS.
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO A RELATIVE COMPACTION OF 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - BENEATH THE ROAD OR DRIVEWAY PAVEMENT TO THE UNDERSIDE OF THE PAVEMENT.
 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE. (TRENCHES TO BE BACKFILLED IN LAYERS NOT EXCEEDING 200mm LOOSE.)
- 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.
- WATER AND GAS CONDUITS TO BE CONSTRUCTED ACROSS NATURE STRIPS AFTER ELECTRICAL CABLE WORK IS COMPLETED.
- BATTERS SHALL BE 1 IN 6 FOR FILL AND 1 IN 6 FOR CUT UNLESS OTHERWISE SHOWN.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM SITE.
- LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER, ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE.
- ALL RESERVE AREAS ARE TO BE SMOOTHED, GRADED, TOPSOILED WHERE REQUIRED WITH A 100mm COMPACTED LAYER OF TOPSOIL AND SEEDED. USING AN APPROVED SEED MIX AND METHOD OF SOWING, SUCH THAT THE SURFACE IS SELF-DRAINING, STONE FREE AND ABLE TO BE MAINTAINED BY CONVENTIONAL MOWING EQUIPMENT.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON THE 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 AS1289.5.2.1-1993. TESTING TO COMPLY WITH AS3798-1996 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.
- EARTH FILL IS TO BE COMPACTED TO A RELATIVE COMPACTION COMPARED TO A STANDARD COMPACTION TEST AS SPECIFIED BY VICROADS CORPORATION OF:
 - 100% FOR ALL FILL MATERIAL AND MATERIAL UNDER FILL THAT IS LESS THAN 450mm FROM THE SURFACE.
 - 95% FOR ALL FILL NOT COVERED AS ABOVE.
- NATURESTRIP AND AREAS OF CUT ARE TO BE TOPSOILED AND GRASSED TO THE SATISFACTION OF THE ENGINEER. MINIMUM DEPTH TO BE 100mm.
- ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER. NO EXCAVATION WITHIN 5m OF ANY EXISTING NATIVE TREE WITHOUT APPROVAL OF THE ENGINEER.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED, BY THE CONTRACTOR, PRIOR TO THE COMMENCEMENT OF WORKS.
- SERVICES CONDUITS ARE TO BE PROVIDED AT 90deg TO KERB AND CHANNEL UNLESS OTHERWISE SHOWN AND THE LOCATION IS TO BE MARKED ON THE FACE OF KERB. ALL SERVICE CONDUITS TO BE MINIMUM STANDARD OF CLASS 6, WITH A MINIMUM COVER OF 75mm ABOVE TOP OF CONDUIT TO SUB GRADE LEVEL, AND A SIZE SUITABLE TO SERVICE BUT NOT LESS THAN 50mm.
- 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 CONCRETER MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.
- TELSTRA/NBN Co TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
- VEHICLE CROSSINGS TO BE OFFSET 0.75m FROM SIDE BOUNDARIES AND EASEMENTS UNLESS OTHERWISE SHOWN AND A MINIMUM OF 0.75m CLEAR OF PITS. VEHICULAR CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF MELTON STANDARD DRAWINGS MSC501 TO MSC506.

VEHICULAR CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH GAA STANDARD DRAWINGS FIG010 & FIG011. ACROSS THE WINGED SECTION CONTRACTOR TO PROVIDE TWO 450mm LONG N12 DEFORMED BARS, CENTRALLY LOCATED, AT 300mm CENTRES.
- ALL RESIDENTIAL FOOTPATHS SHALL BE 1.5m WIDE (MIN.) AND SHARED PEDESTRIAN/CYCLE PATHS SHALL BE 2.5m (MIN.). CONCRETE PATHS ARE TO BE 125mm THICK REINFORCED WITH SL72 MESH 50mm TOP COVER AND UNDERLAIN BY 50mm OF CLASS 3 CR. REFER VPA STD DWG EDMC401.
- PRAM CROSSINGS ARE TO BE CONSTRUCTED WHERE FOOTPATHS CONNECT TO THE BACK OF KERB & CHANNEL. REFER TO COUNCIL STD DWG MCC403.
- STREET SIGNS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARDS.
- THE CONTRACTOR SHALL TO THE SATISFACTION OF THE ENGINEER AND THE MUNICIPAL ENGINEER, PROVIDE AND MAINTAIN INCLUSIVE OF STREET SIGNS, ALL NECESSARY REGULATORY SIGNS, WARNING SIGNS, LIGHTING, LINEMARKING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF VICROADS SIGNING CODE OF PRACTICE.
- THE CONTRACTOR IS TO SUPPLY AND ERECT ALL RELEVANT STREET SIGNAGE AND LINE MARKING AS PART OF THE CONTRACT IN ACCORDANCE WITH VICROADS SPECIFICATION SECTIONS 710 & 722 AND AS1742.1, 2 & 3
- ALL ROADS TO BE CONSTRUCTED WITH B2 KERB & CHANNEL UNLESS OTHERWISE SHOWN. REFER VPA STD DWG EDMC301.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A ROAD OPENING PERMIT FOR WORKS IN PREVIOUSLY CONSTRUCTED ROADWAYS.
- IF BLASTING IS REQUIRED THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PERMIT TO BLAST AND MAINTAINING SAFETY REGULATIONS ON SITE IN COMPLIANCE WITH THE EXPLOSIVES ACT 1960. THE PERSON WHO IS USING THE EXPLOSIVES ON THE SITE IS TO BE A HOLDER OF A CURRENT PERMIT TO USE EXPLOSIVES ISSUED UNDER THE EXPLOSIVES ACT 1960.
- PATTERNED CONCRETE TO BE DOWELED INTO ADJACENT KERB AND CHANNEL AT 300mm CTS USING 450mm LONG S12 BARS. ONE END OF DOWEL TO BE SLEEVED OR GREASED.

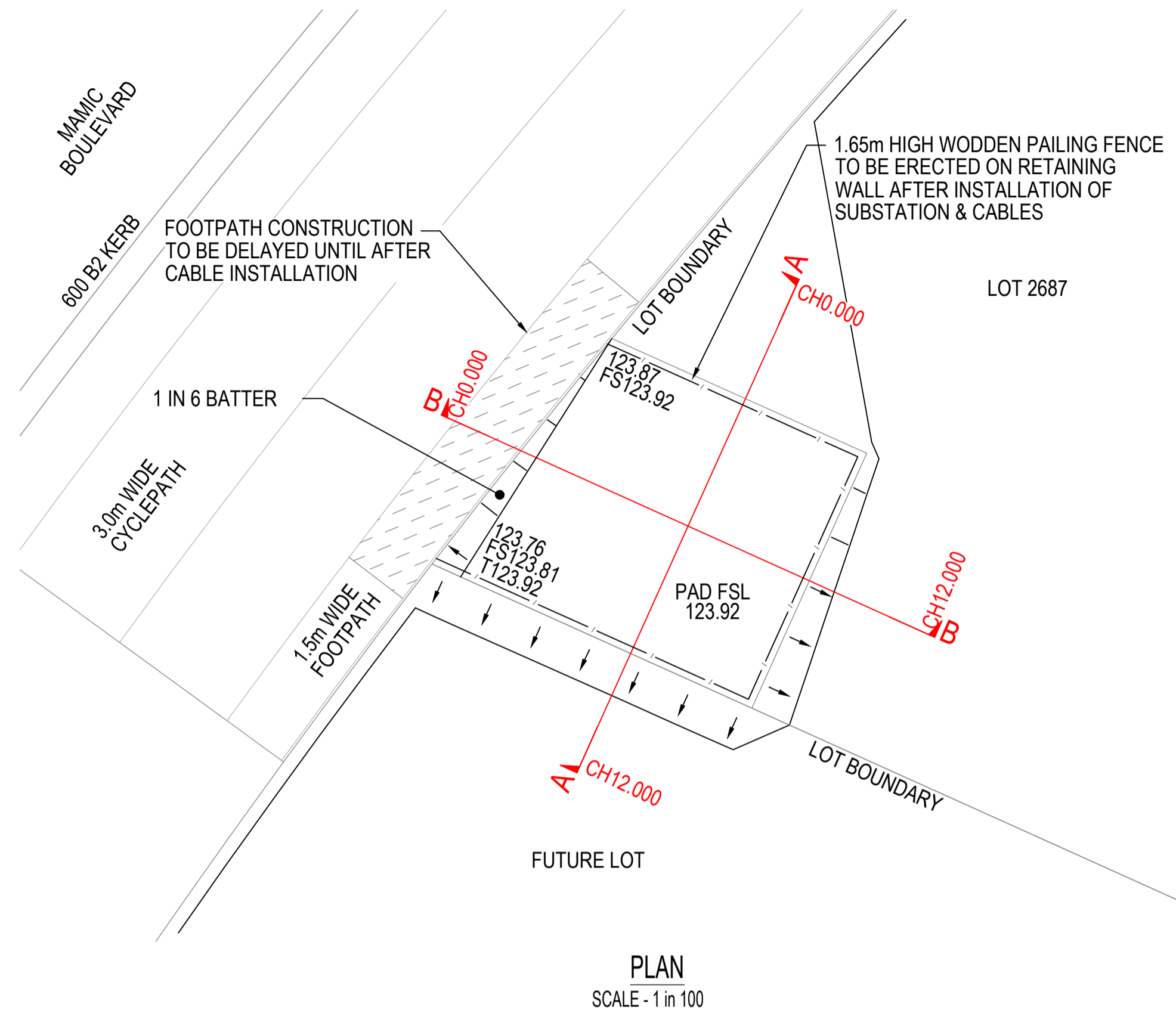
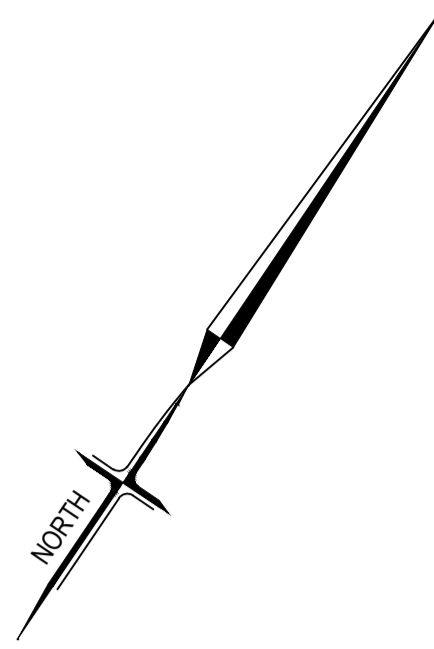
- THE RELATIVE COMPACTION OF CRUSHED ROCK SHALL BE COMPLETED AT THE OPTIMUM MOISTURE CONTENT TO A DRY DENSITY (BASED ON THE PERCENTAGE OF THE MAXIMUM DRY DENSITY OBTAINED IN THE MODIFIED COMPACTION TEST) AS BELOW.
 - FOR DEPTH 0-100mm BELOW TOP OF BASE: RELATIVE COMPACTION = 100%
 - FOR DEPTH 100-300mm BELOW TOP OF BASE: RELATIVE COMPACTION = 98%
 - FOR DEPTH OVER 300mm BELOW TOP OF BASE: RELATIVE COMPACTION = 97%
- THE SUBGRADE BELOW ALL PAVEMENTS SHALL BE COMPACTED TO A DRY DENSITY OF NOT LESS THAN 100% OF THE MAXIMUM DRY DENSITY OBTAINED IN THE STANDARD COMPACTION TEST IN AREAS OF CUT TO A DEPTH OF 150mm AND IN AREAS OF FILL TO A DEPTH OF 450mm.
- CONCRETE TO HAVE A 28 DAY STRENGTH OF 25 MPa.
- ALL SPLAYS ARE 3.00m X 3.00m UNLESS OTHERWISE SHOWN.
- ALL LEVELS ARE TO THE AUSTRALIAN HEIGHT DATUM (A.H.D.)
- 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.
- 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-INSTATEMENT AT THE CONTRACTORS EXPENSE.

PIT SCHEDULE NOTES

- WHERE PIT HAUNCHING IS REQUIRED, INTERNAL PIT WALL DIMENSIONS MUST ALLOW 50mm CLEARANCE EACH SIDE OF PIPE OUTSIDE DIAMETER, INCLUDING ANGULAR PIPE ENTRY TO PIT. MINIMUM DIMENSIONS OF PIT BASE ARE TO BE AS PER SIZES SPECIFIED IN THE PIT SCHEDULE. TOP OF PIT OPENING FOR ALL HAUNCHED PITS TO BE 900mm x 600mm.
- PIT BASE TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROP ACROSS PIT IS LESS THAN 50mm.
- ALL PITS LOCATED WITHIN THE ROAD RESERVE (INDICATED THUS *) SHALL BE PROVIDED WITH TERRA FIRMA OR APPROVED EQUIVALENT PIT LID WITH A LOCKABLE COVER.

PRELIMINARY

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. 354-C-12	ASPIRE ESTATE STAGE 26A ROAD PAVEMENT DETAILS & NOTES	MUNICIPALITY MELTON		
						SURVEY BPD		REFERENCE 8226 E/26A		
						DESIGN J.B				
				DRAWN I.W	SCALE AS SHOWN		DATE -			
				CHECKED -			DATUM AHD	DATE -	SHEET 03 OF 19 P3	




APPROVED
DETAILED ENGINEERING PLANS
 Nihal Jayasekara
 ENGINEERING SERVICES
 Date: 03/02/2021

PAD IL 123.92

DATUM RL117		BDY		BDY	
DESIGN CENTRELINE	123.929	123.92		123.92	123.727
EXISTING SURFACE	123.917	123.868		123.765	123.727
CHAINAGE	0.000	2.500		9.100	12.000

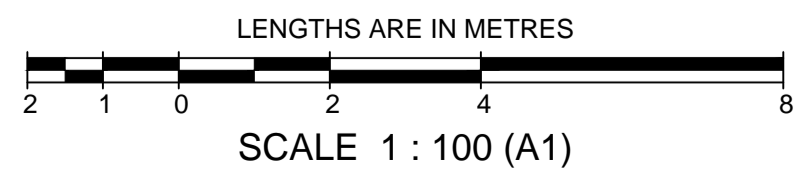
ALIGNMENT A - A

PAD IL 123.92


DATUM RL117		BDY		BDY	
DESIGN CENTRELINE	123.814	123.864	123.920	123.819	123.821
EXISTING SURFACE	123.813	123.814	123.814	123.819	123.821
CHAINAGE	0.000	1.533	2.308	8.950	12.000

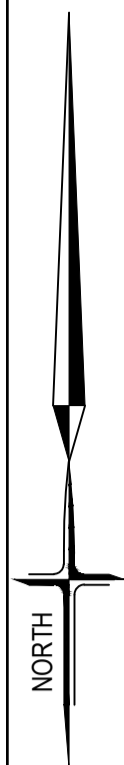
ALIGNMENT B - B

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.

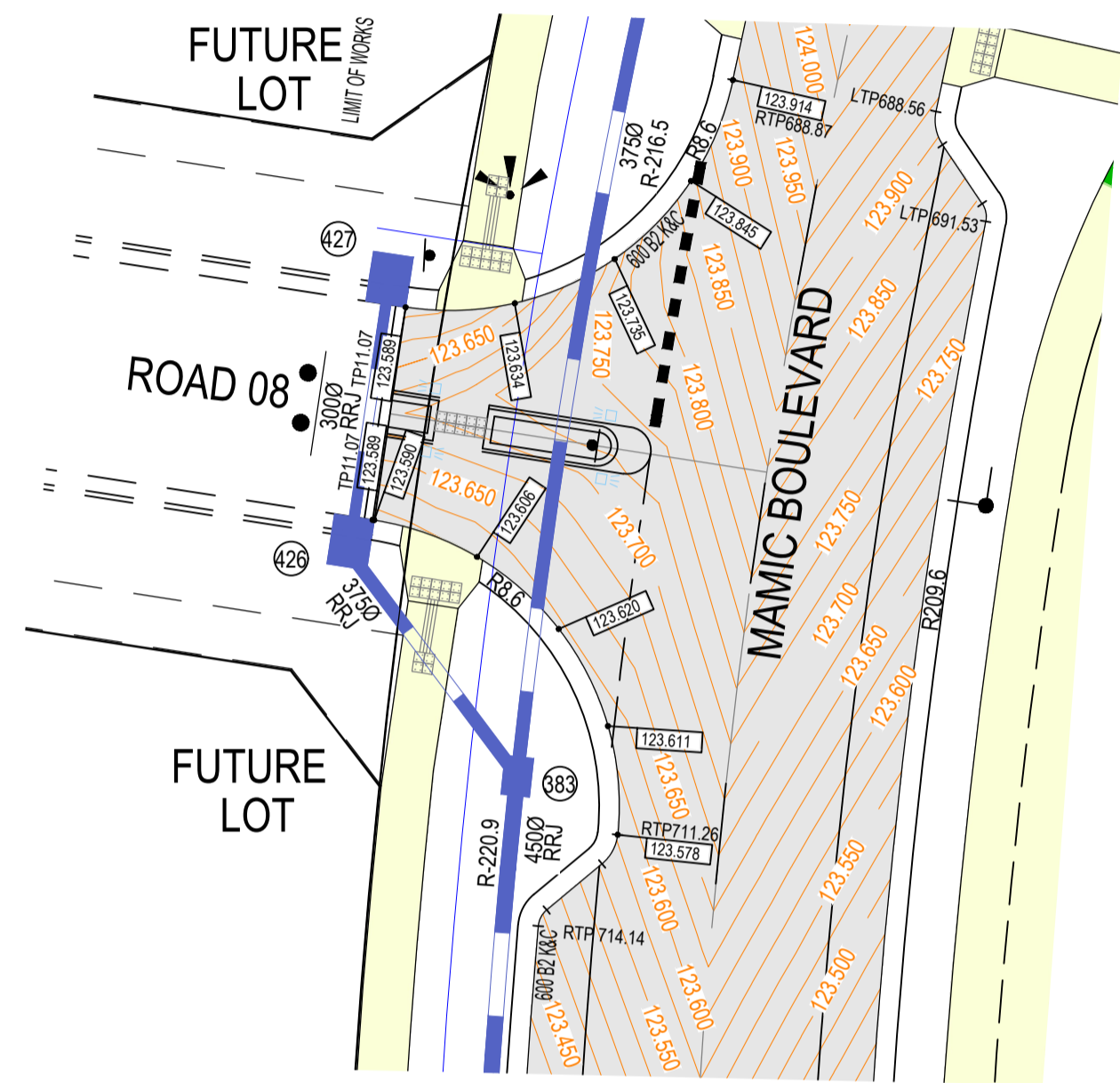


PRELIMINARY

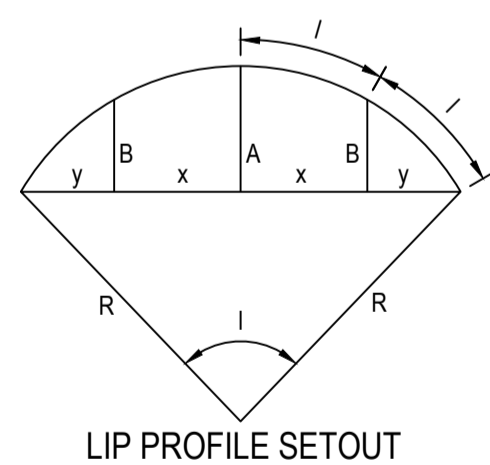
AMENDMENTS			 breese pitt dixon pty. ltd. land surveyors civil engineers	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
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		SURVEY BPD			REFERENCE 8226 ^E /26A
		DESIGN J.B			
		DRAWN I.W			
VER	DATE	REMARKS	CHECKED -	SCALE AS SHOWN DATUM AHD DATE -	SHEET 04 OF 19 P3



CURVE SETOUT DETAILS	
I	87.145
R	8.6
Arc	13.08
A	2.369
B	1.755
X	3.192
Y	2.736
I	3.27
Mid Level	123.735



CURVE SETOUT DETAILS	
I	86.876
R	8.6
Arc	13.04
A	2.355
B	1.745
X	3.182
Y	2.731
I	3.26
Mid Level	123.62



LIP PROFILE SETOUT

NOTES

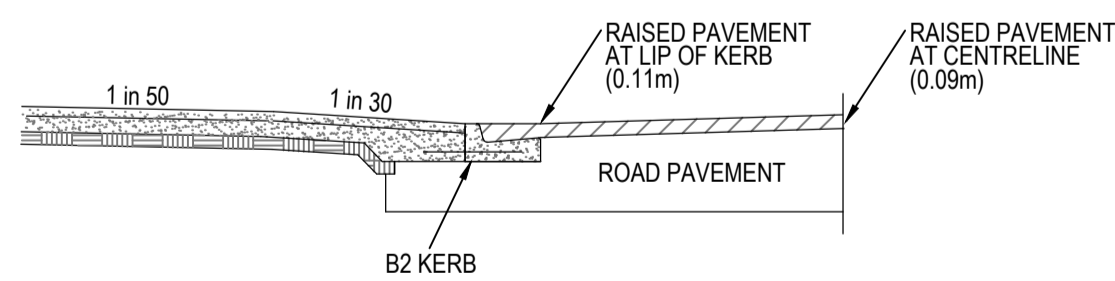
- a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.
- b) INDICATES UNIDIRECTIONAL & BIDIRECTIONAL RRPMS PLACED AT 6.00m CTS
- c) HAZARD / DIRECTIONAL TGS'S SHOWN THUS AND FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGS'S SHALL CONFORM TO AS1428.4
- d) PROVIDE EMERALD GREEN COLOURED HIGH FRICTION SURFACE TREATMENTS ALONG SHARED PATH DENOTED THUS: SURFACE TREATMENT MUST COMPLY WITH VICROADS STANDARD SECTION 430.
- e) STREET SIGNS TO HAVE MINIMUM 2 WEDGES IN THE SLEEVES
- f) SWLM - INDICATES SOLID WHITE "LONGLIFE" LINE MARKING
BWLm - INDICATES BROKEN WHITE "LONGLIFE" LINE MARKING
- g) RETURN & ELBOW LIP OF KERB CHAINAGES PREFIXED WITH AN "L" (eg LTP35.83)

CURVE SETOUT DETAILS	
I	93.535
R	8.6
Arc	14.039
A	2.709
B	2.003
X	3.143
Y	2.853
I	3.51
Mid Level	124.266



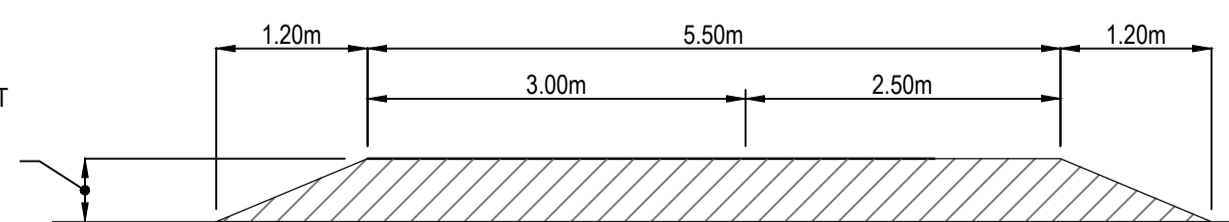
CURVE SETOUT DETAILS	
I	93.535
R	8.6
Arc	14.039
A	2.709
B	2.003
X	3.413
Y	2.853
I	3.51
Mid Level	124.129

INTERSECTION DETAILS
SCALE 1:200



SECTION A-A
NOT TO SCALE
(REFER AS1742.13)

HEIGHT VARIES. 0.11m AT CHANNEL LIP AND 0.09m AT ROAD CROWN

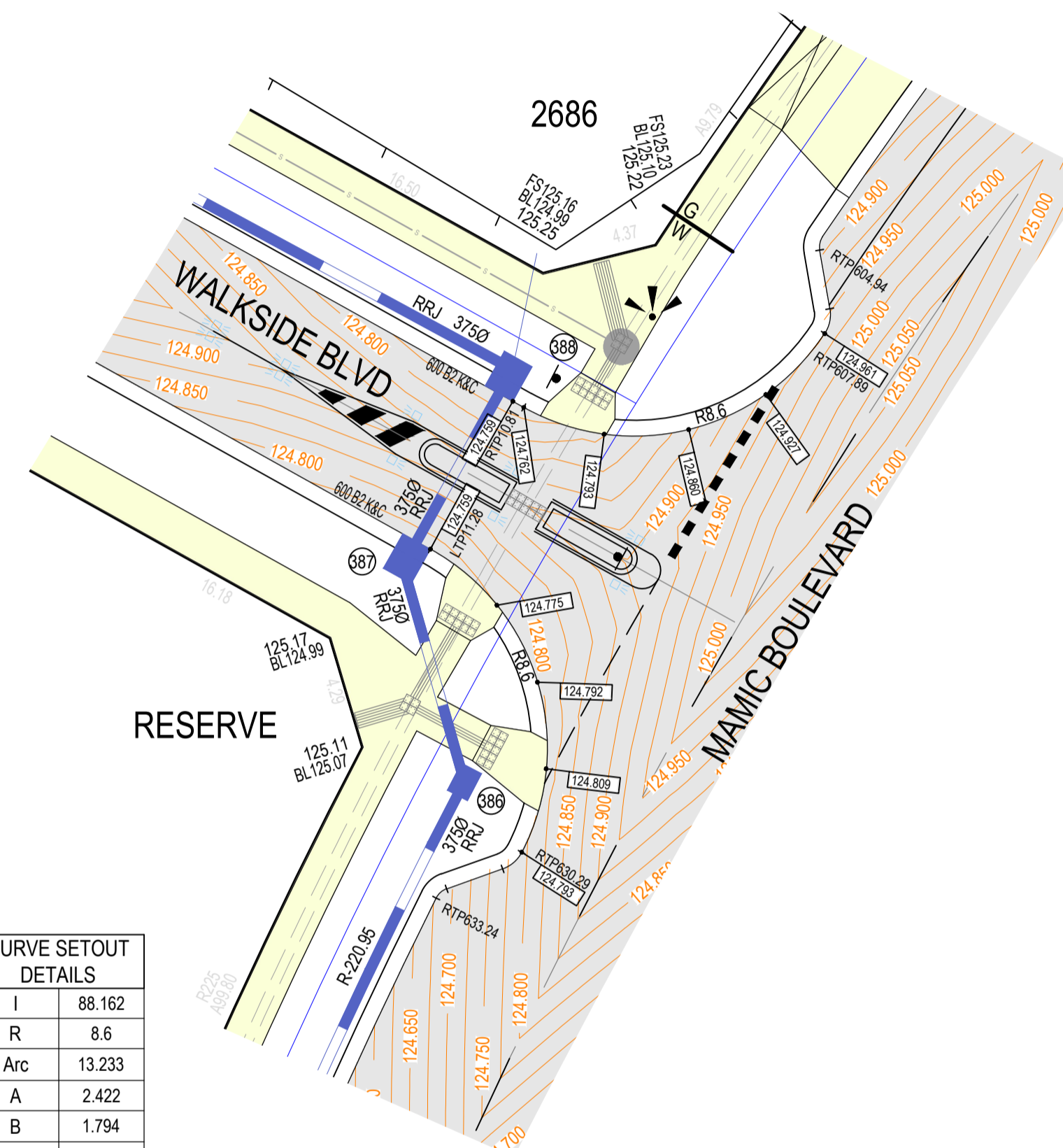


SECTION B-B
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(REFER AS1742.13)

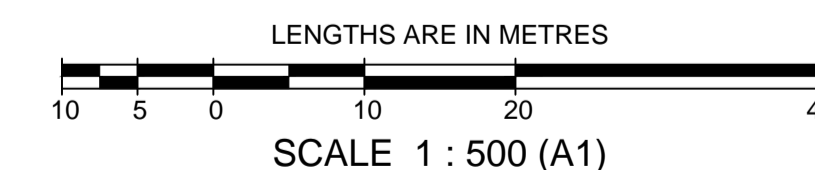
RAMP DETAILS
SCALE 1:200

MELTON
APPROVED
DETAILED ENGINEERING PLANS
Nihal Jayasekera
ENGINEERING SERVICES
Date: 03/02/2021

CURVE SETOUT DETAILS	
I	85.862
R	8.6
Arc	12.888
A	2.303
B	1.707
X	3.147
Y	2.711
I	3.222
Mid Level	124.866



CURVE SETOUT DETAILS	
I	88.162
R	8.6
Arc	13.233
A	2.422
B	1.794
X	3.227
Y	2.756
I	3.308
Mid Level	124.792

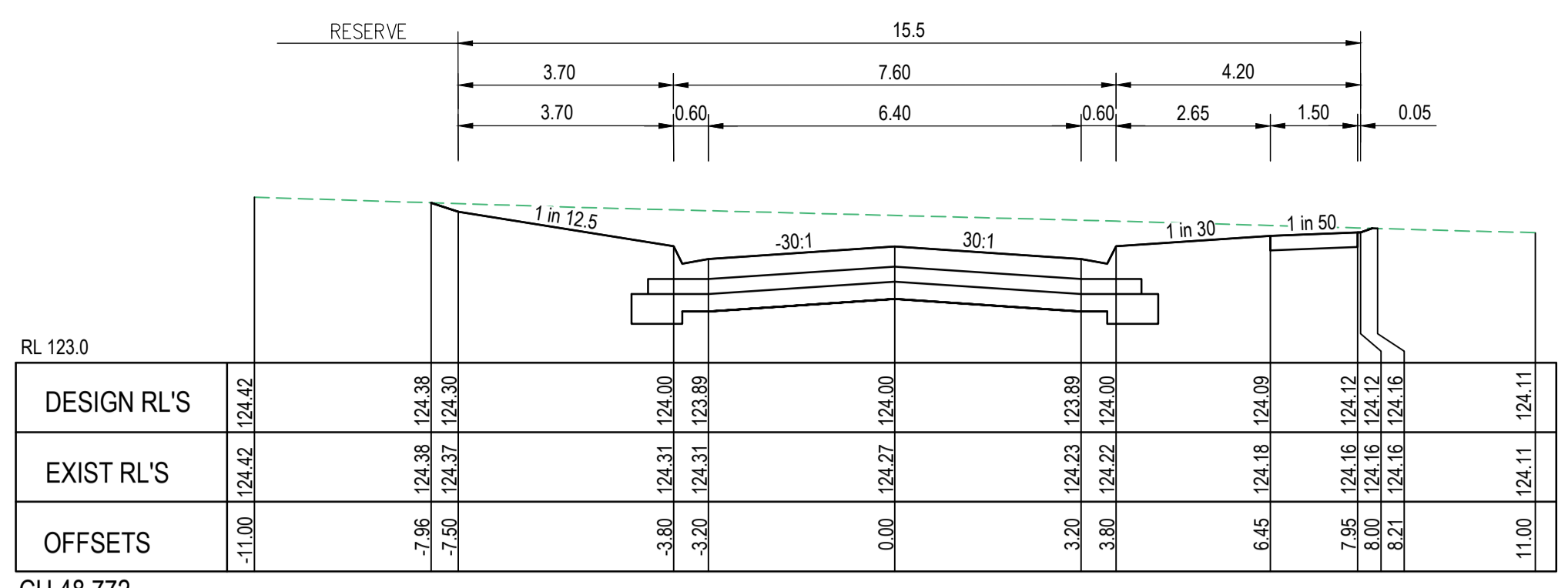


SYMBOL LEGEND

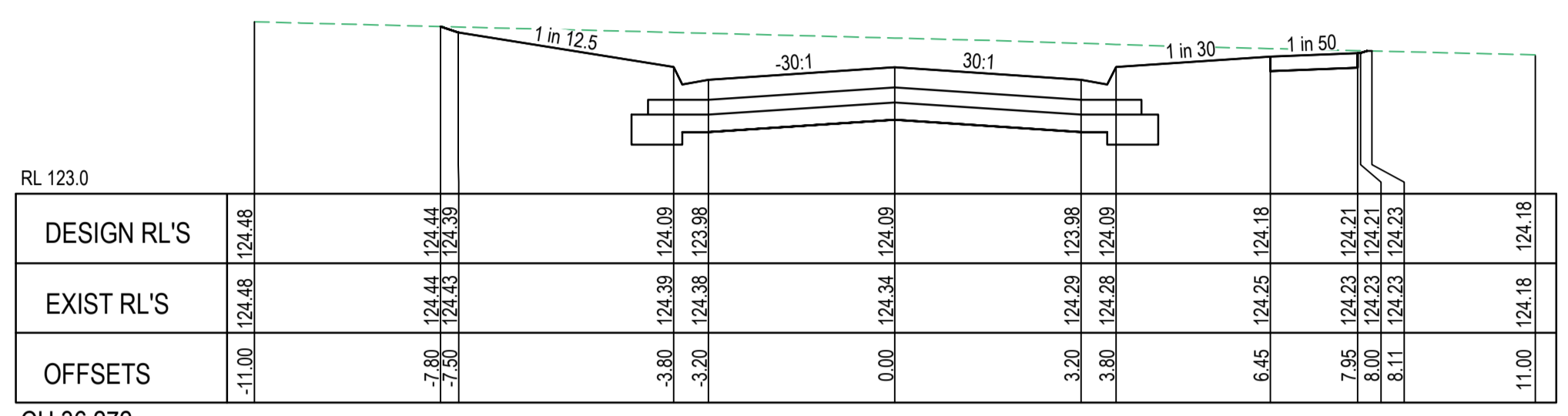
Prop	Prev Stage	Ex/Natural/FS Level	+28.57	+1628.57	+1528.57
Drains	— S — S — S	FS @ Building Line	+31.28.57		
Sewer < 300Ø	— S — S — S	Top/Toe of Batter	+1028.57	+1028.57	
Sewer ≥ 300Ø	— S — S — S	Top Ret. Wall Level	+128.57		
Water (DW)	— W — W — W	100yr Flood Level	+FL28.57		
Water (NDW)	— W — W — W	Fill Proposed (<0.3m±0.3m)			
House Drain	— H — H — H	Cut Proposed			
Property Inlet	— P — P — P	Asphalt Surface Prop			
Street Sign	— S — S — S	Concrete Surface Prop			
PSM	— P — P — P	Concrete Surface Prop (Paths/Driveways/Slabs)			
Rock Ret Wall	— R — R — R	Tree To Be Removed			
Sleeper Ret Wall	— S — S — S	Tree To Be Retained with Tree Protection Zone (TPZ)			
Conduits 50mm	— G — G — G				
Conduits 100mm	— W — W — W				
Street Tree without/with Passive Irrigation (Refer Detail)	— T — T — T				
Ex Drains	— S — S — S				
Ex Water/DW/NDW	— W — W — W				
Ex Sewer/Gas	— S — S — S				
Ex Elect/Comm	— E — E — E				

PRELIMINARY

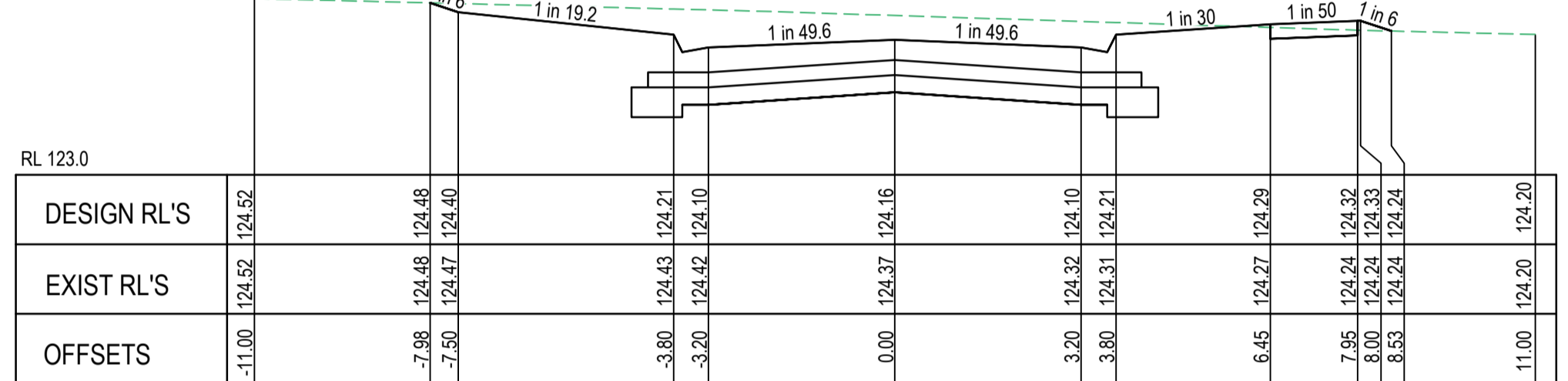
AMENDMENTS	NO.	DATE	REMARKS	<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p>	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
	1			MELWAY REF. 354-C-12 SURVEY BPD DESIGN J.B DRAWN I.W	MUNICIPALITY MELTON
	2			SCALE AS SHOWN DATUM AHD	REFERENCE 8226 E/26A
	3			CHECKED - DATE -	SHEET 05 OF 19 P3



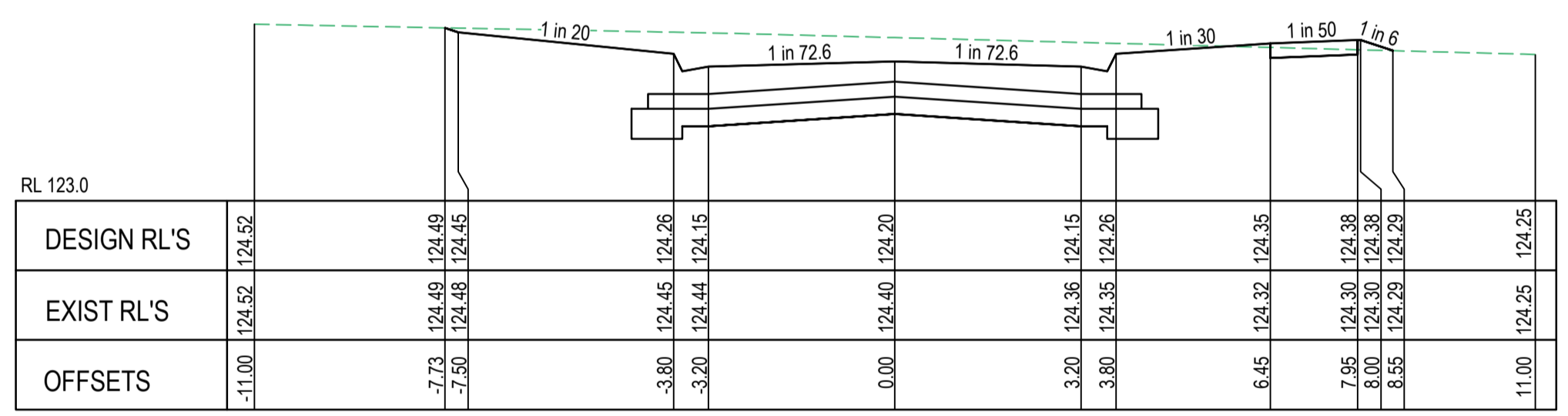
RL 123.0
DESIGN RL'S
EXIST RL'S
OFFSETS



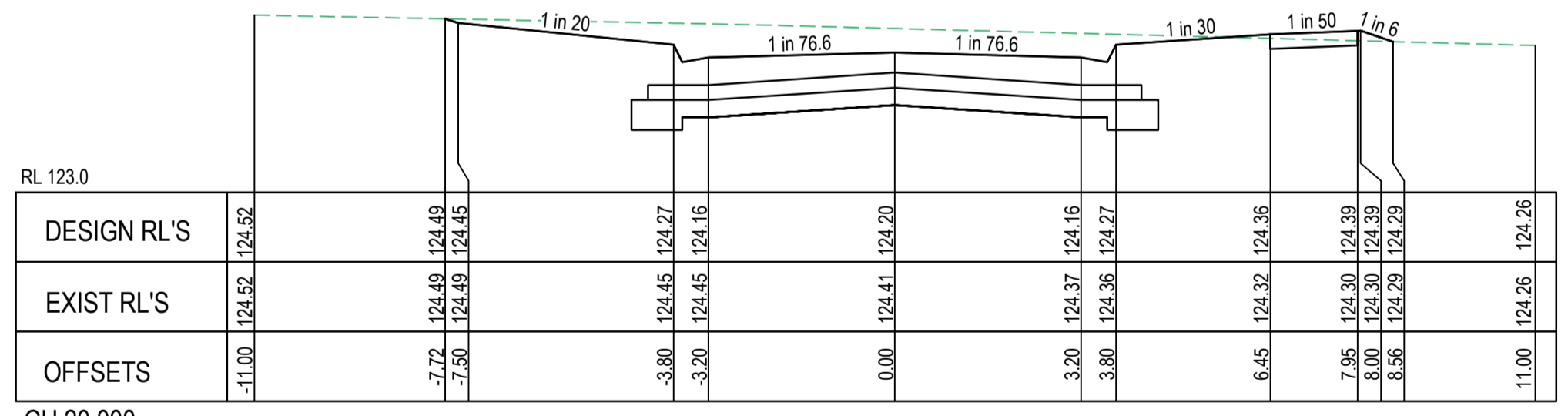
RL 123.0
DESIGN RL'S
EXIST RL'S
OFFSETS



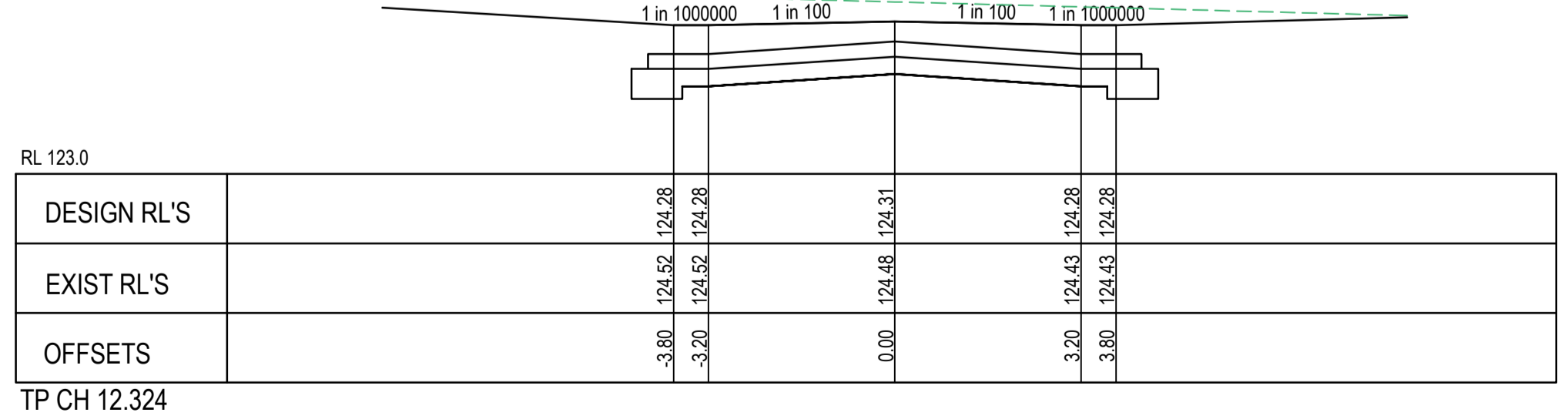
RL 123.0
DESIGN RL'S
EXIST RL'S
OFFSETS



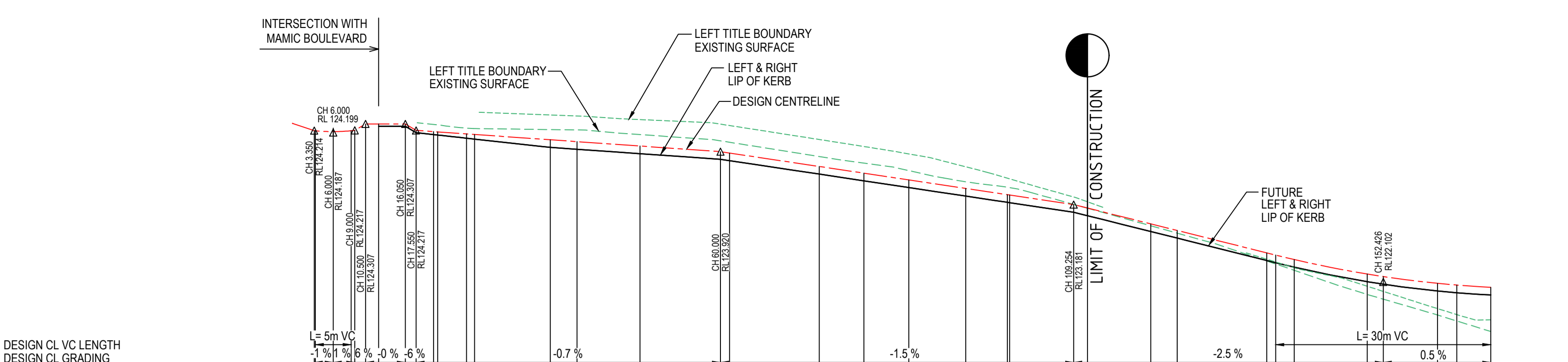
RL 123.0
DESIGN RL'S
EXIST RL'S
OFFSETS



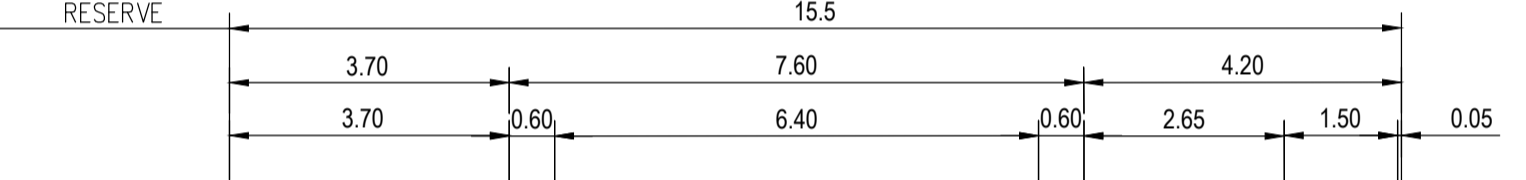
RL 123.0
DESIGN RL'S
EXIST RL'S
OFFSETS



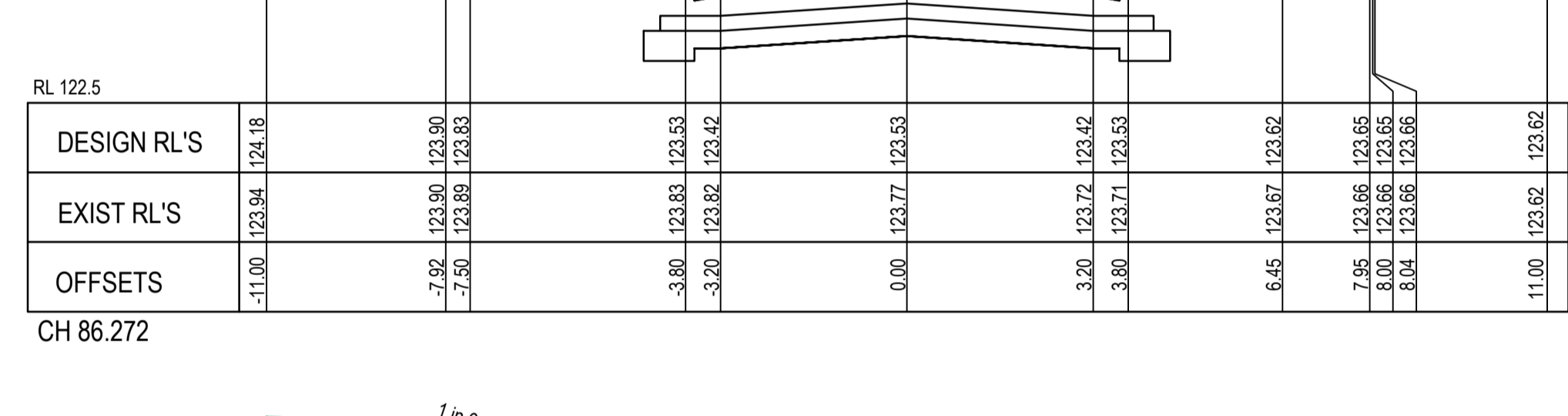
RL 123.0
DESIGN RL'S
EXIST RL'S
OFFSETS



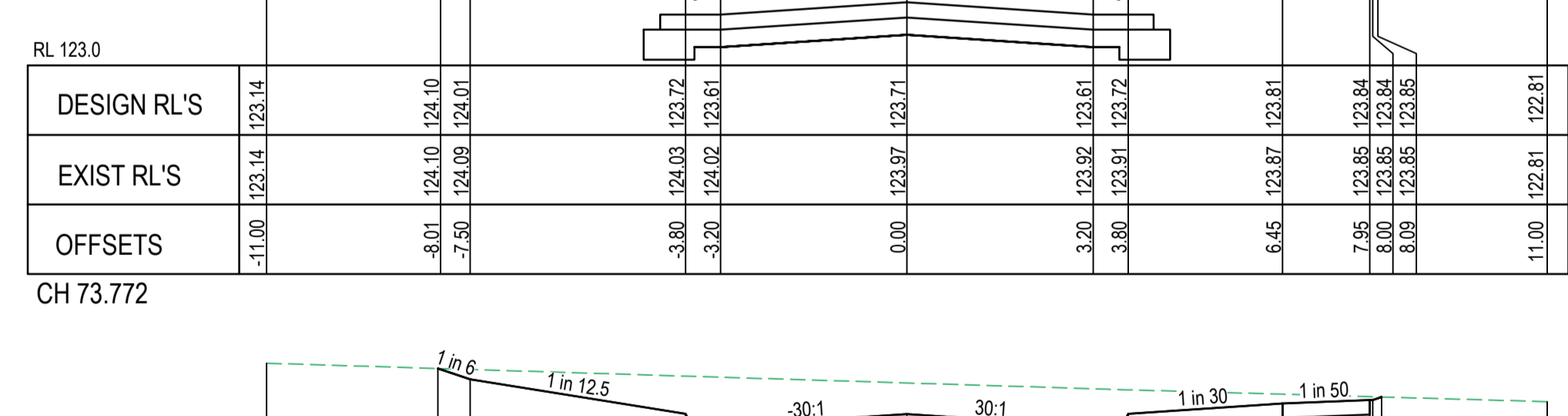
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DESIGN CL GRADING
HORIZONTAL GEOMETRY
DATUM RL120.50
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LEFT LIP OF KERB
DESIGN CL
RIGHT LIP OF KERB
FS RIGHT TITLE BDY
ES RIGHT TITLE BDY
CHAINAGE DESIGN CL



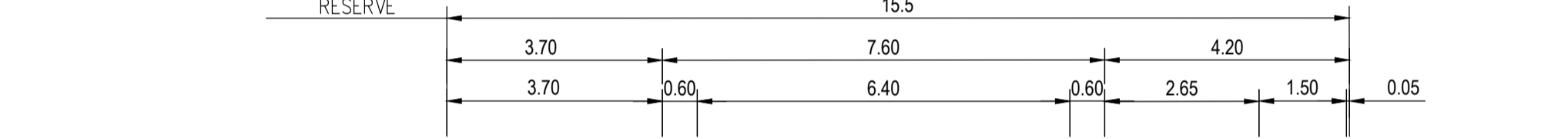
RL 122.5
DESIGN RL'S
EXIST RL'S
OFFSETS



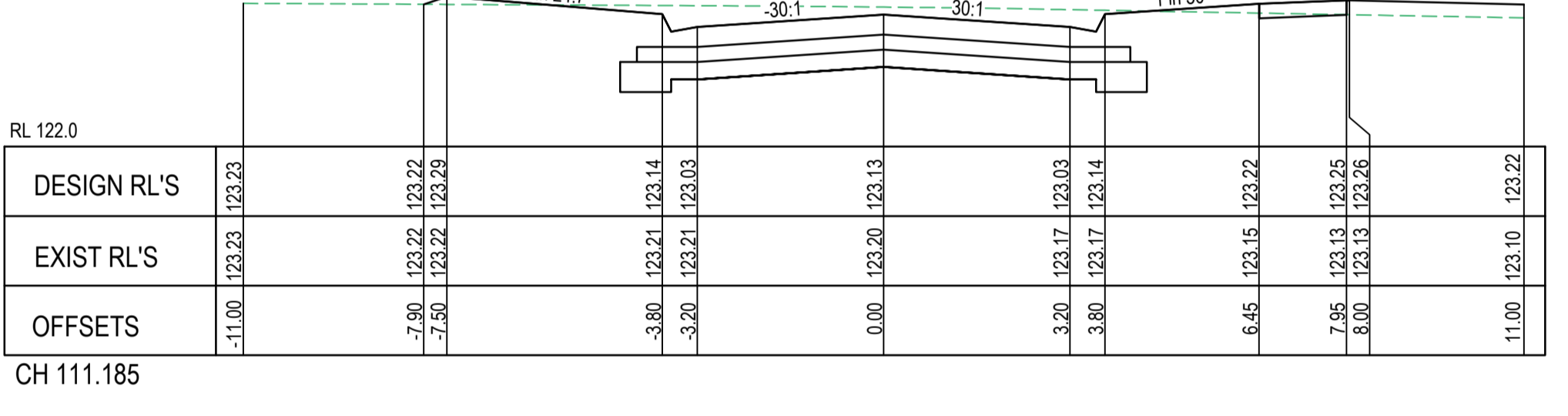
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DESIGN RL'S
EXIST RL'S
OFFSETS



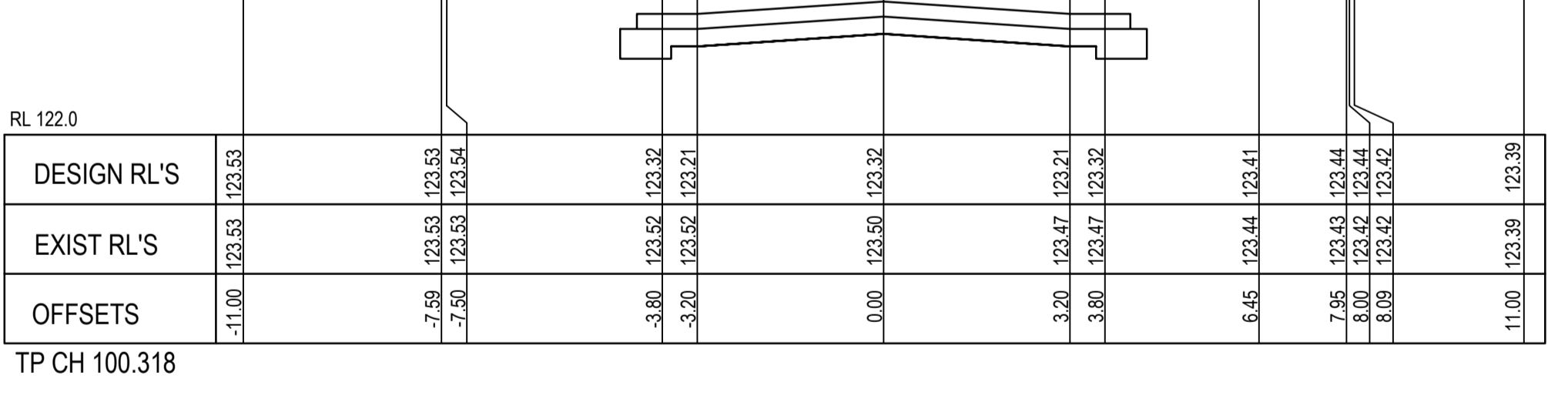
RL 123.0
DESIGN RL'S
EXIST RL'S
OFFSETS



RL 122.0
DESIGN RL'S
EXIST RL'S
OFFSETS



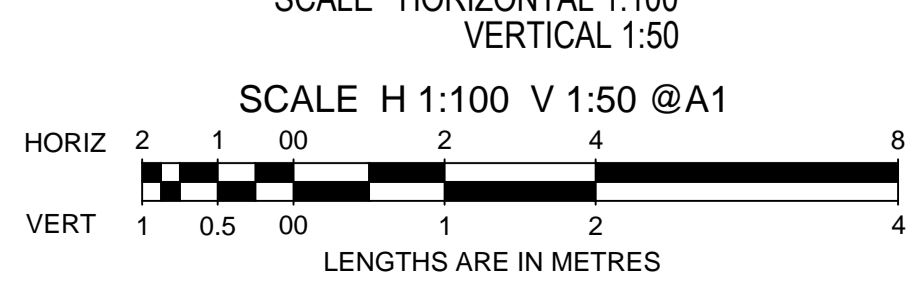
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DESIGN RL'S
EXIST RL'S
OFFSETS



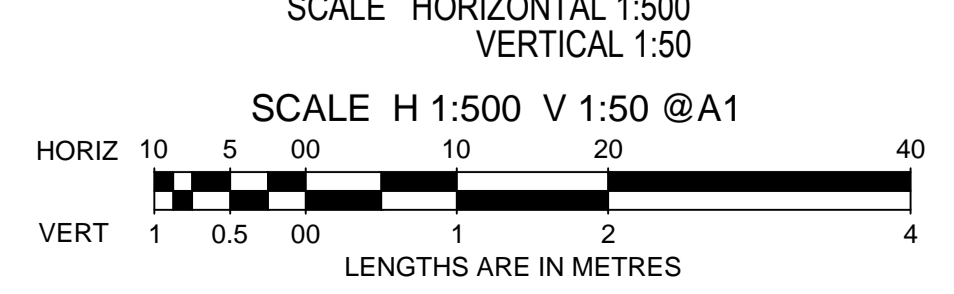
RL 122.5
DESIGN RL'S
EXIST RL'S
OFFSETS

PRELIMINARY

CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50



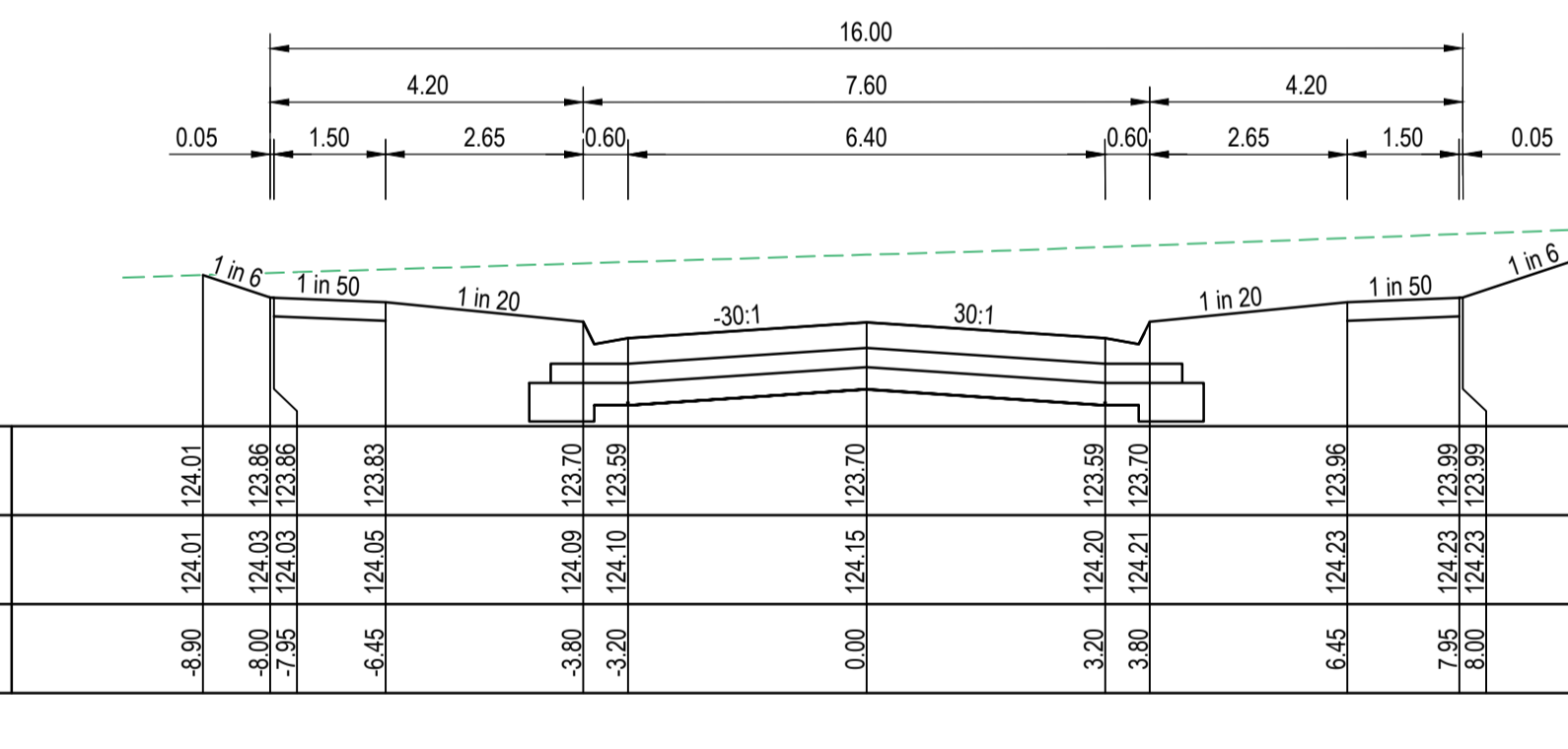
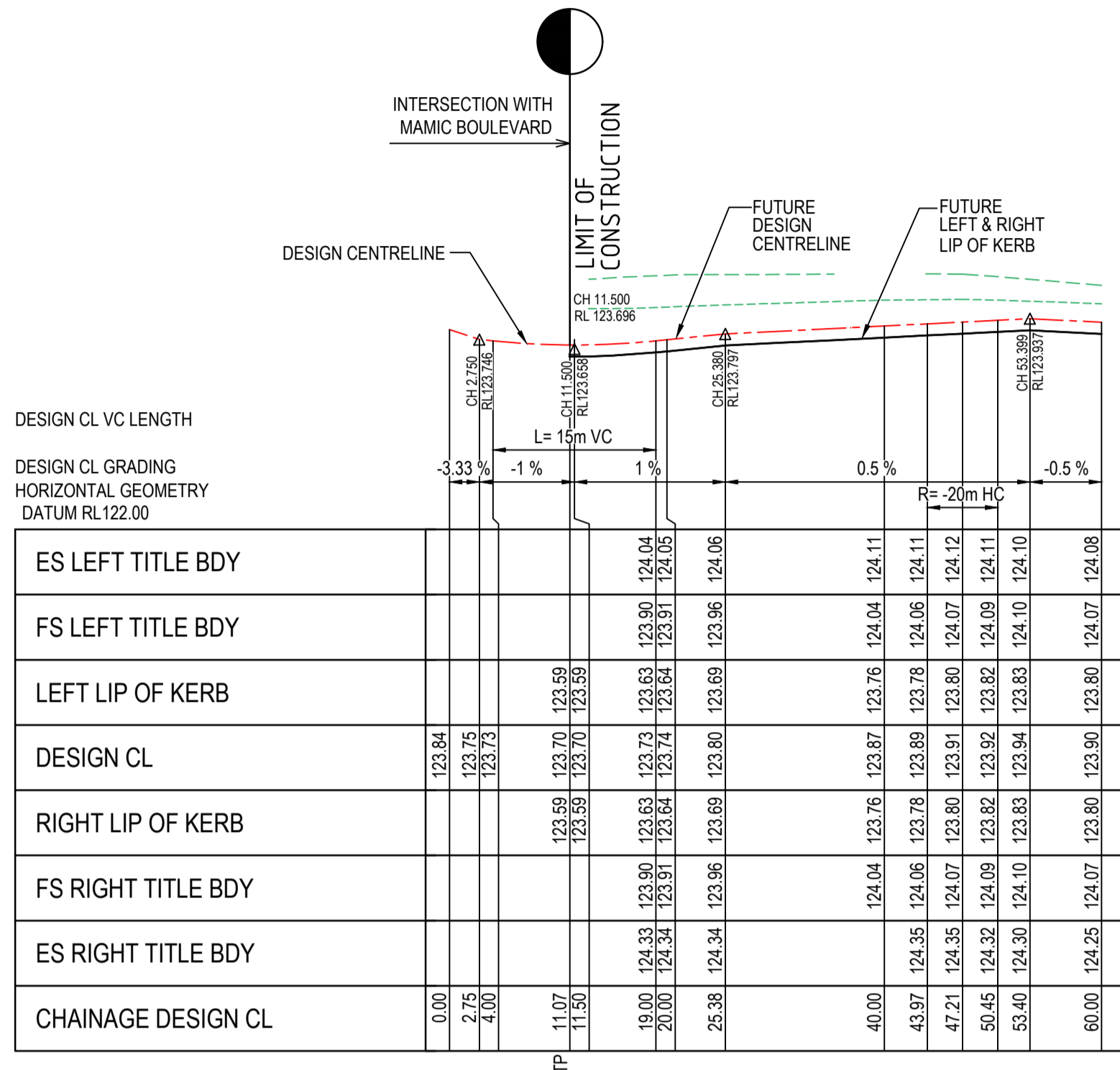
LONGITUDINAL SECTION
SCALE HORIZONTAL 1:500
VERTICAL 1:50



MARYANNE WAY

AMENDMENTS
VER
DATE
REMARKS

breese pitt dixon pty. ltd. land surveyors civil engineers	
MELWAY REF. 354-C-12	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
SURVEY BPD	MUNICIPALITY MELTON
DESIGN J.B	REFERENCE 8226 E/26A
DRAWN I.W	SHEET 06 OF 19 P3
CHECKED -	SCALE AS SHOWN DATUM AHD DATE -

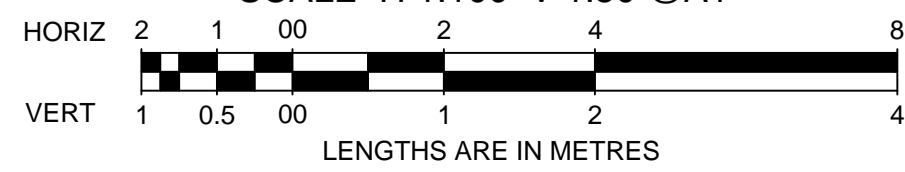


ROAD 08

CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

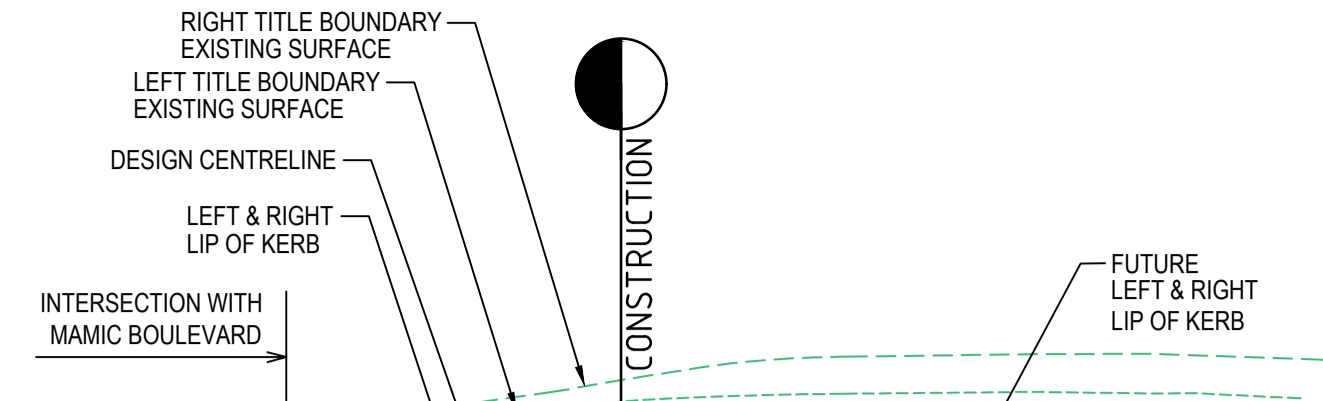
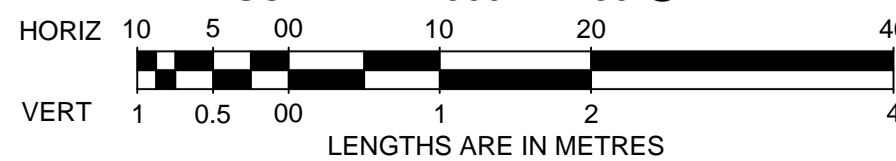
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LONGITUDINAL SECTION

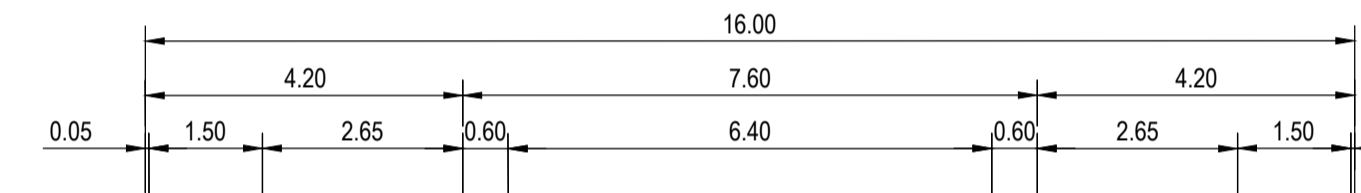
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SCALE H 1:1000 V 1:50 @A1



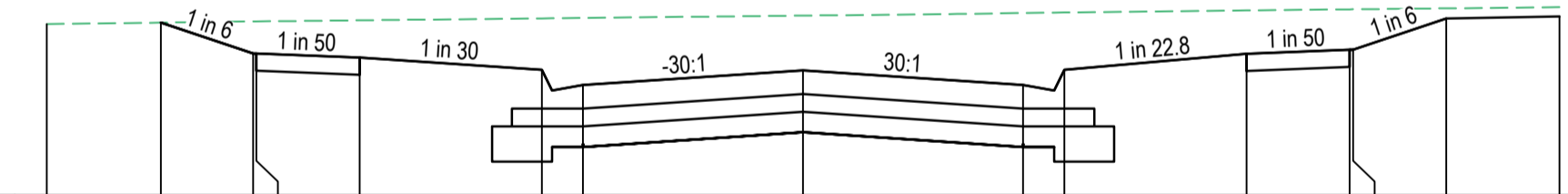
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DESIGN CL GRADING
HORIZONTAL GEOMETRY
DATUM RL123.00

Feature	Chainage (m)	Elevation (RL)
ES LEFT TITLE BDY	0.00	125.01
FS LEFT TITLE BDY	0.00	124.92
LEFT LIP OF KERB	0.00	124.90
DESIGN CL	0.00	125.01
RIGHT LIP OF KERB	0.00	124.87
FS RIGHT TITLE BDY	0.00	124.76
ES RIGHT TITLE BDY	0.00	124.87
CHAINAGE DESIGN CL	0.00	124.87



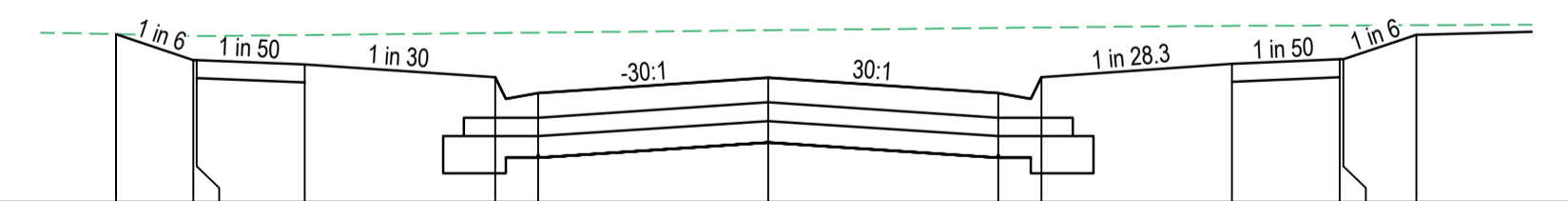
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125.37	125.35	-11.00
125.37	125.37	-9.47
125.12	125.38	-8.00
125.12	125.38	-7.95
125.09	125.38	-6.45
125.00	125.40	-3.80
124.89	125.41	-3.20
125.00	125.43	0.00
124.89	125.45	3.20
125.00	125.46	3.80
125.15	125.47	6.45
125.18	125.48	7.95
125.18	125.48	8.00
125.48	125.49	9.79
125.48	125.49	11.00

TP CH 29.15



Design RL's	Exist RL's	Offsets
125.24	125.24	-11.00
125.25	125.25	-9.34
125.03	125.26	-8.00
125.03	125.26	-7.95
125.00	125.27	-6.45
124.91	125.29	-3.80
124.80	125.29	-3.20
124.91	125.31	0.00
124.80	125.32	3.20
124.91	125.33	3.80
125.03	125.34	6.45
125.06	125.35	7.95
125.06	125.35	8.00
125.28	125.36	9.35
125.36	125.36	11.00

CH 20.00



Design RL's	Exist RL's	Offsets
125.17	124.17	-9.07
124.87	124.87	-8.00
124.87	124.87	-7.95
124.76	124.96	-6.45
124.87	124.87	-3.80
124.76	124.76	-3.20
124.87	125.20	0.00
124.76	124.76	3.20
124.87	124.87	3.80
124.96	124.96	6.45
124.99	124.99	7.95
124.99	124.99	8.00
125.16	125.23	9.02

LTP CH 11.28

WALKSIDE BOULEVARD



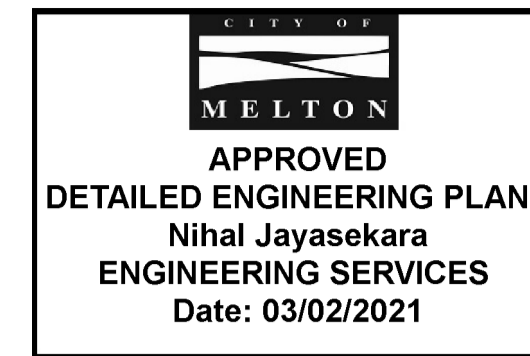
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354-C-12
SURVEY BPD
DESIGN J.B
DRAWN I.W
CHECKED -
SCALE AS SHOWN
DATUM AHD
DATE -

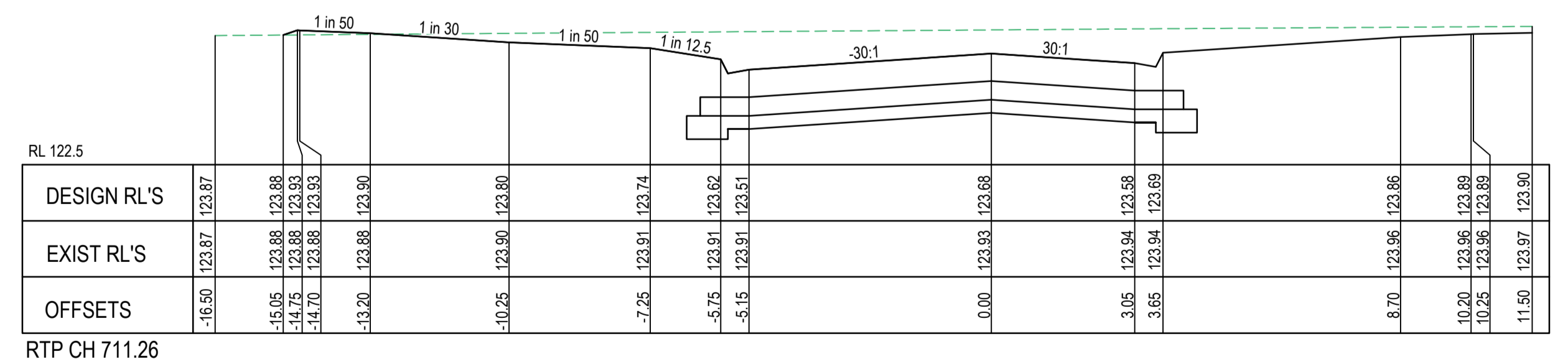
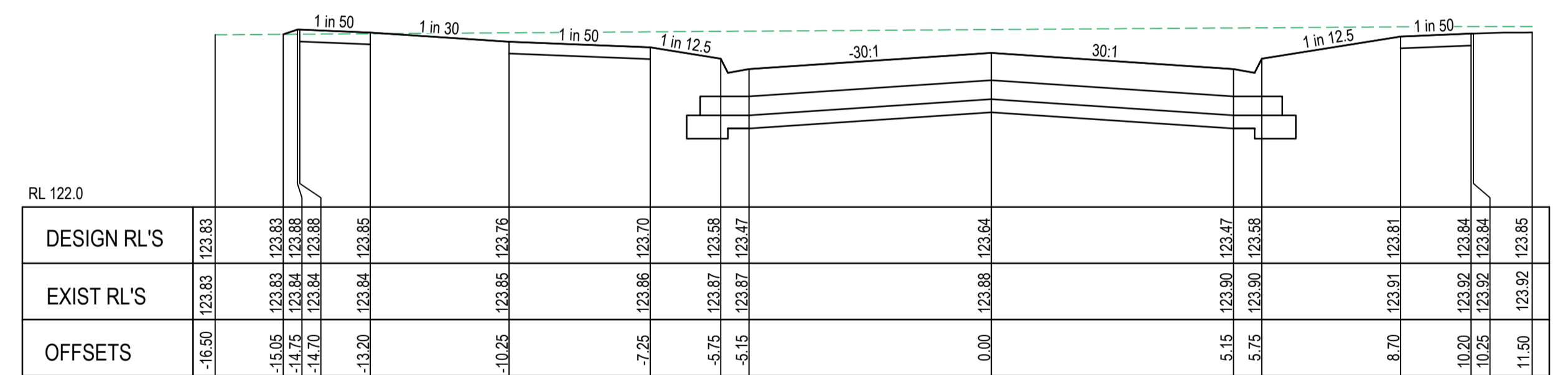
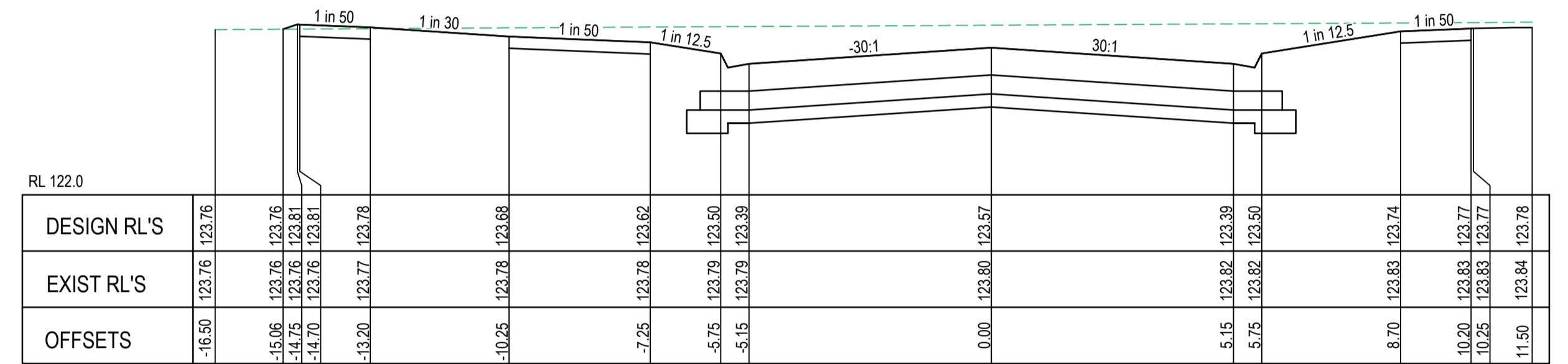
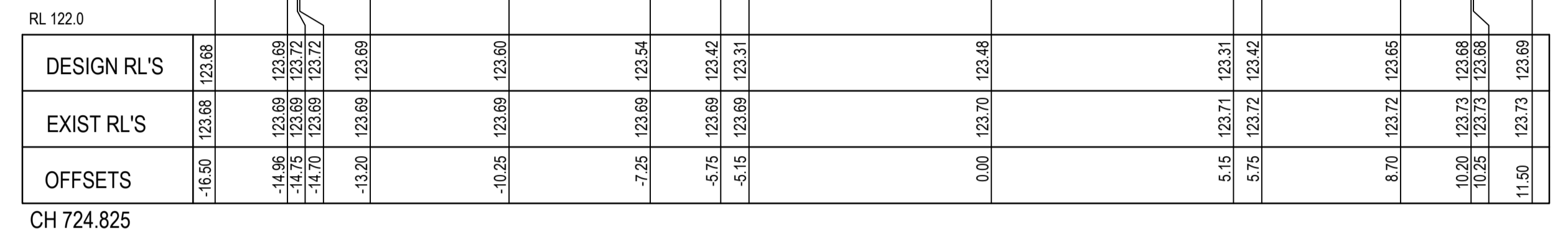
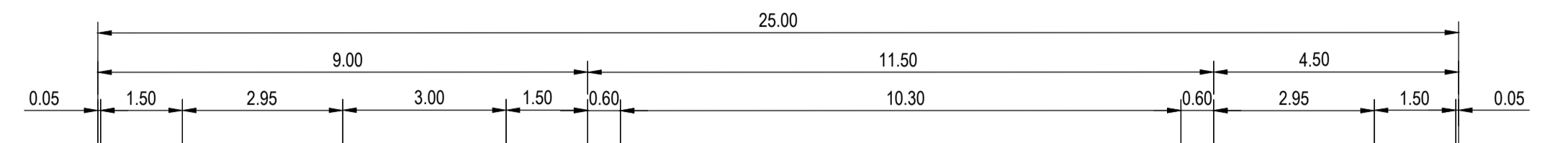
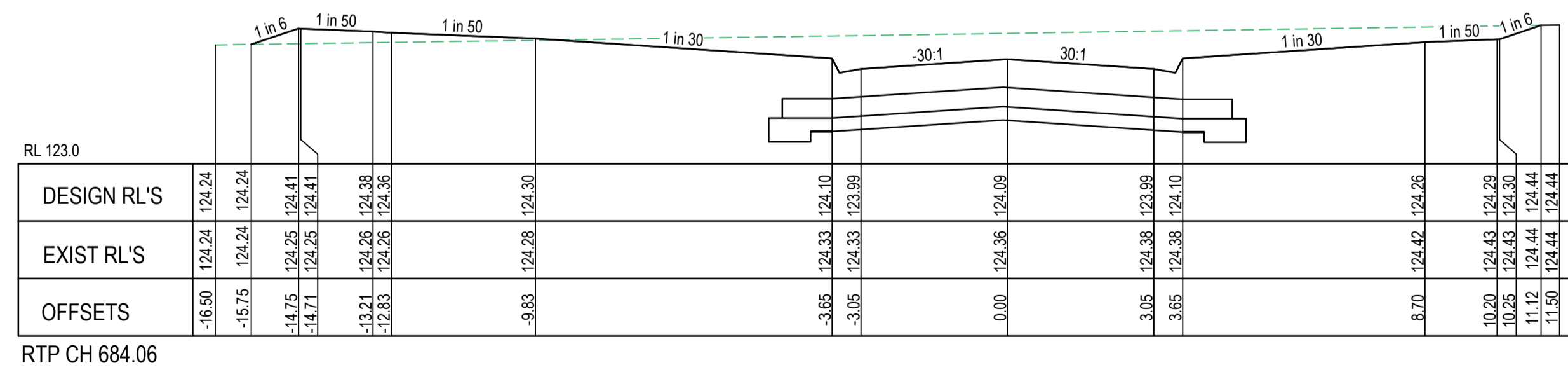
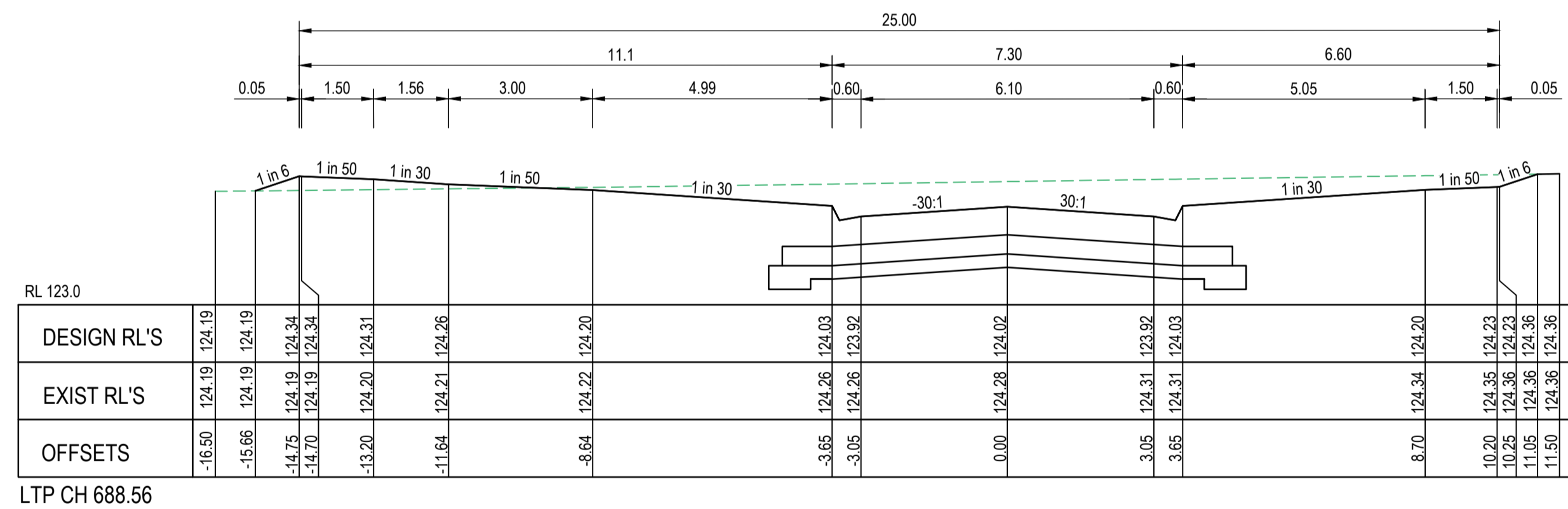
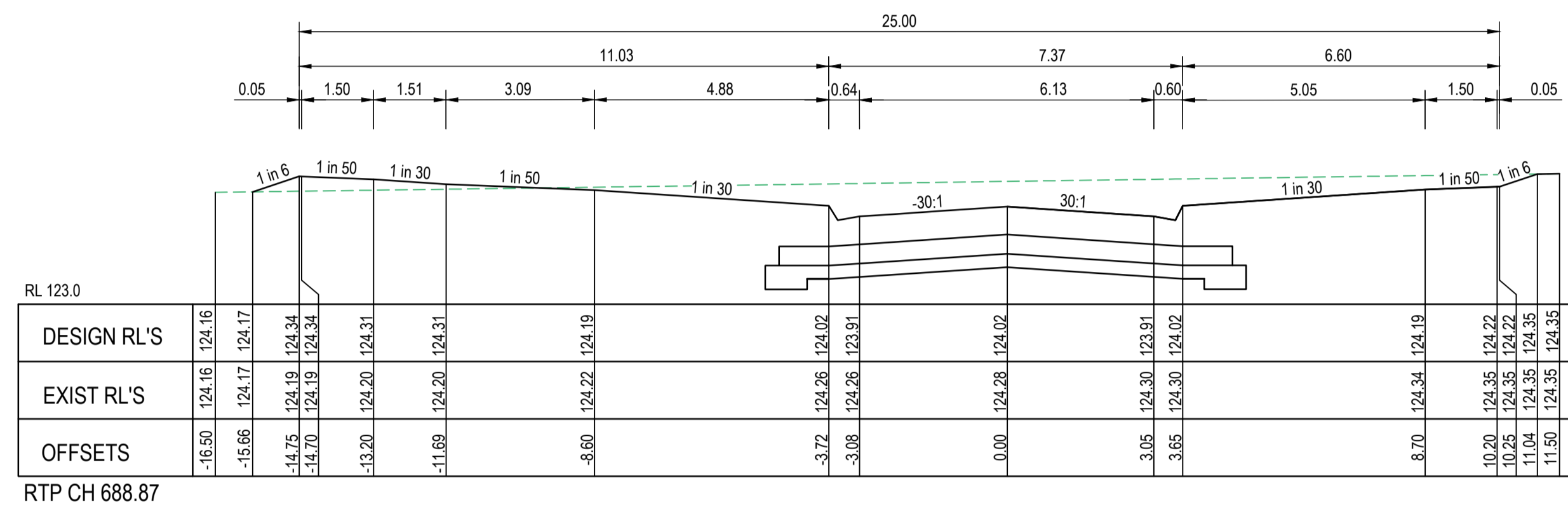
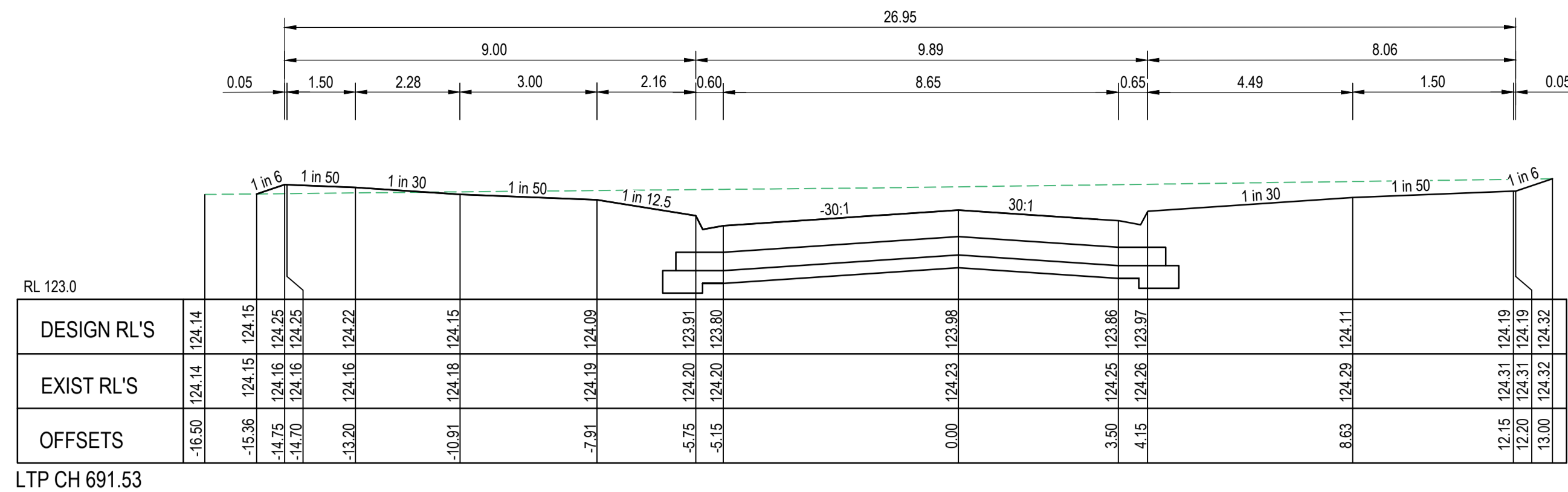
**ASPIRE ESTATE
STAGE 26A
WALKSIDE BOULEVARD & ROAD 08**

MUNICIPALITY
MELTON
REFERENCE
8226 E/26A

VER	DATE	REMARKS	CHECKED	SCALE	DATUM	AHD	DATE	SHEET	OF	P3
								07 OF 19		



APPROVED
DETAILED ENGINEERING PLANS
 Nihal Jayasekara
 ENGINEERING SERVICES
 Date: 03/02/2021

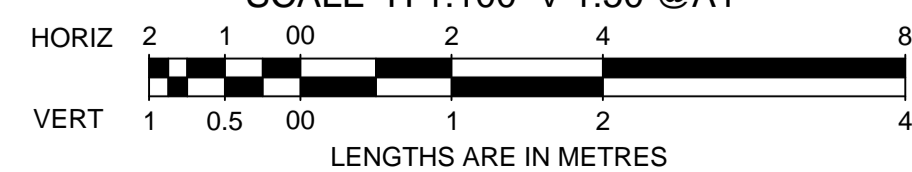


MAMIC BOULEVARD

CROSS SECTIONS

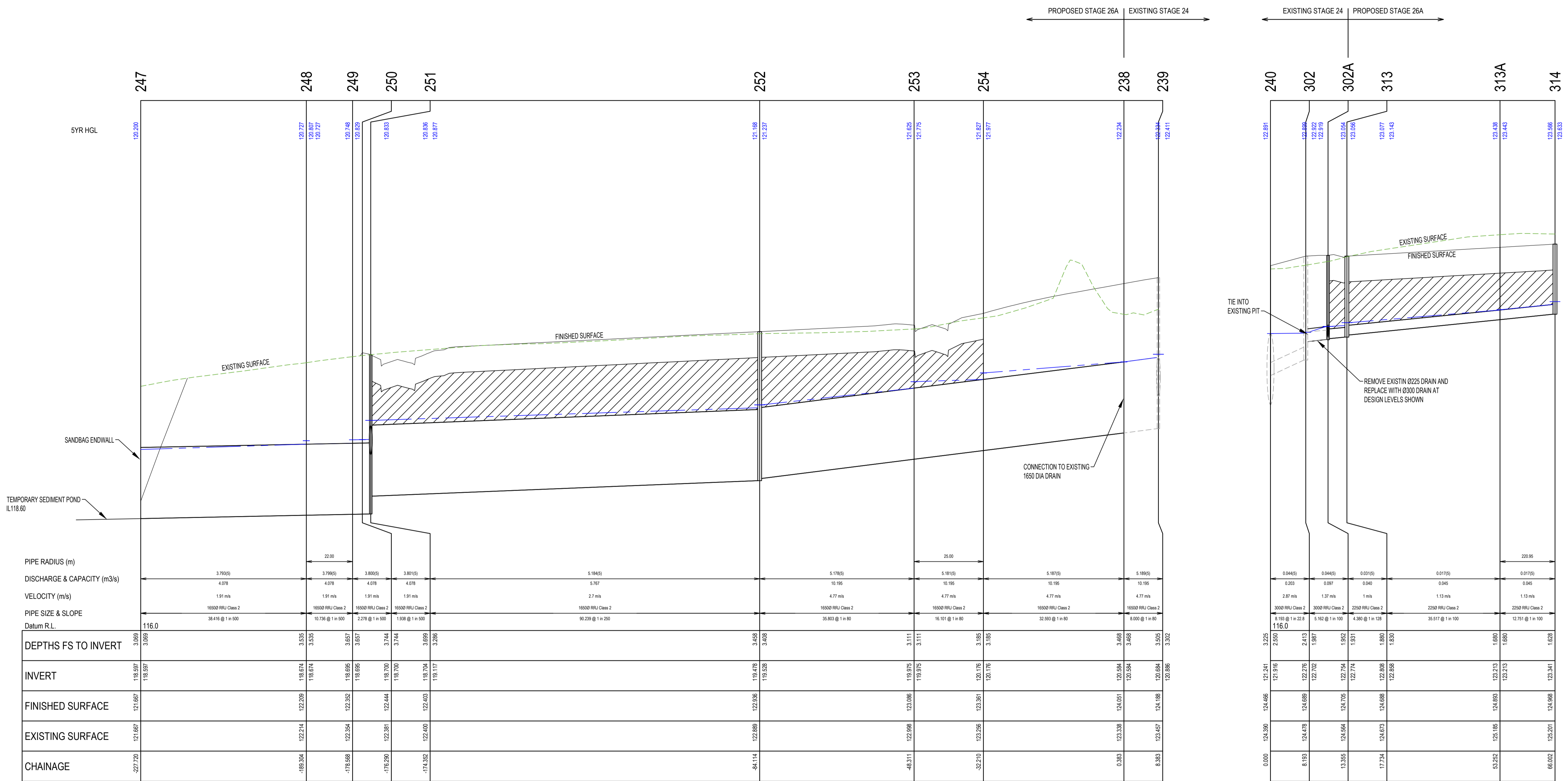
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SCALE H 1:100 V 1:50 @A1

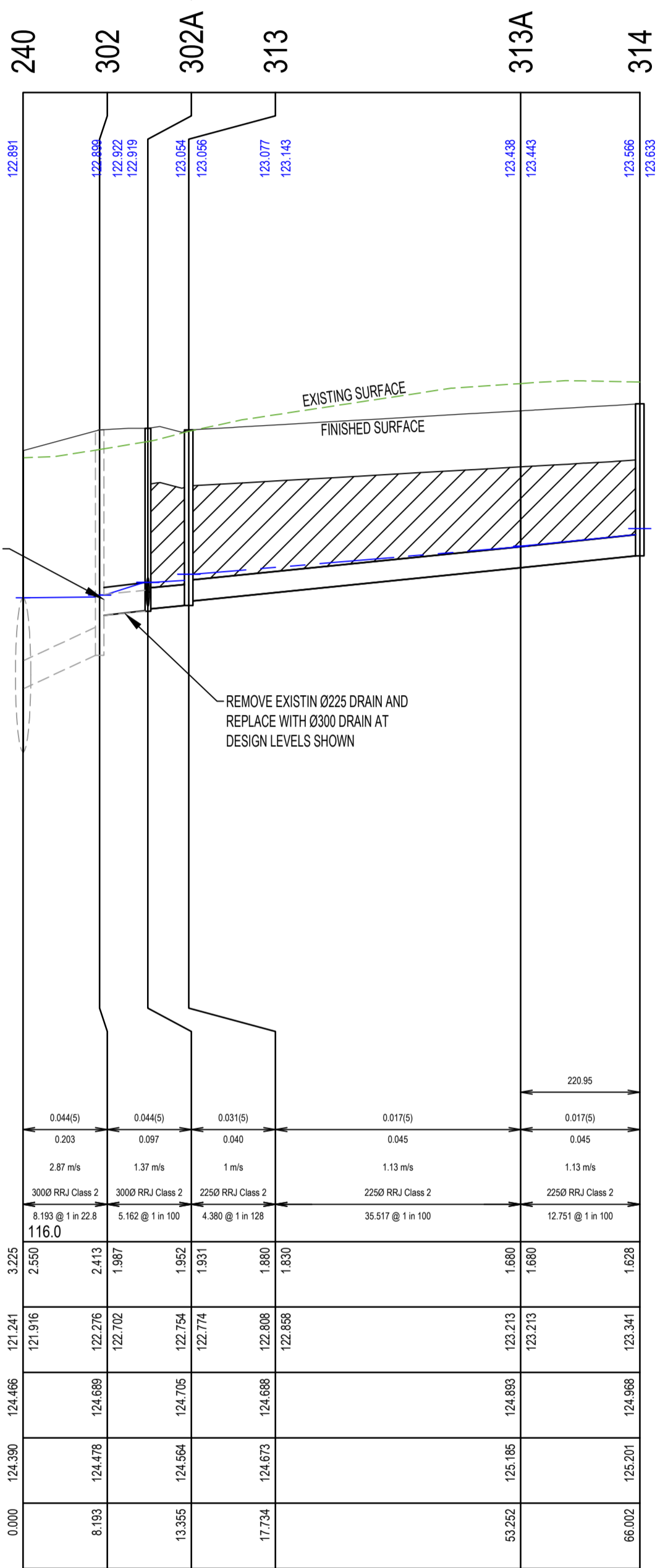


PRELIMINARY

AMENDMENTS	VER	DATE	REMARKS		MELWAY REF. 354-C-12 SURVEY BPD DESIGN J.B DRAWN I.W CHECKED -	ASPIRE ESTATE STAGE 26A MAMIC BOULEVARD - SHEET 3	MUNICIPALITY MELTON REFERENCE 8226 E/26A	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310					
	SCALE	AS SHOWN	DATUM						AHD	DATE	-	SHEET	10 OF 19

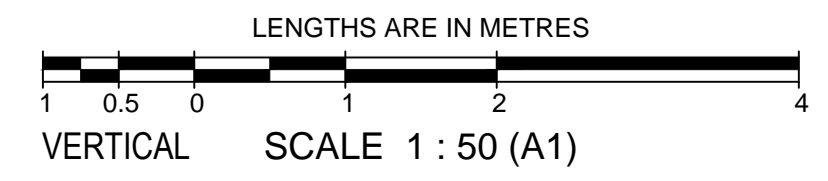
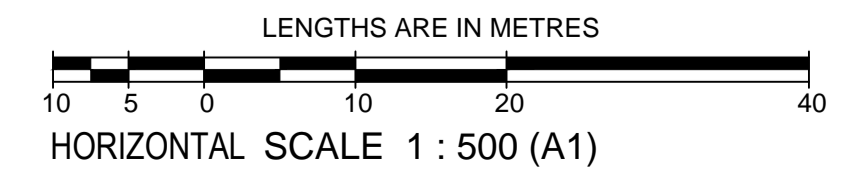


PIPE RADIUS (m)	DISCHARGE & CAPACITY (m ³ /s)	VELOCITY (m/s)	PIPE SIZE & SLOPE	Datum R.L.	DEPTHS FS TO INVERT	INVERT	FINISHED SURFACE	EXISTING SURFACE	CHAINAGE
3.79(5)	4.078	1.91 m/s	1650R RRU Class 2 38.416 @ 1 in 500	116.0	3.063	116.567	121.867	121.867	-227.720
3.79(5)	4.078	1.91 m/s	1650R RRU Class 2 10.736 @ 1 in 500	116.0	3.535	116.674	122.206	122.244	-186.304
3.80(5)	4.078	1.91 m/s	1650R RRU Class 2 2.278 @ 1 in 500	116.0	3.657	116.696	122.332	122.354	-178.568
3.80(5)	4.078	1.91 m/s	1650R RRU Class 2 1.938 @ 1 in 500	116.0	3.744	116.700	122.444	122.381	-176.290
5.18(5)	5.767	2.7 m/s	1650R RRU Class 2 90.239 @ 1 in 250	116.0	3.458	119.478	122.936	122.889	-84.114
5.178(5)	5.767	2.7 m/s	1650R RRU Class 2 35.803 @ 1 in 80	116.0	3.111	119.975	123.086	123.086	-83.311
5.18(5)	5.767	2.7 m/s	1650R RRU Class 2 16.101 @ 1 in 80	116.0	3.185	120.176	123.361	123.256	-32.210
5.18(5)	5.767	4.77 m/s	1650R RRU Class 2 32.950 @ 1 in 80	116.0	3.468	120.664	124.051	123.338	0.383
5.18(5)	5.767	4.77 m/s	1650R RRU Class 2 8.000 @ 1 in 80	116.0	3.505	120.664	124.188	123.457	8.383




PIPE RADIUS (m)	DISCHARGE & CAPACITY (m ³ /s)	VELOCITY (m/s)	PIPE SIZE & SLOPE	Datum R.L.	DEPTHS FS TO INVERT	INVERT	FINISHED SURFACE	EXISTING SURFACE	CHAINAGE
0.044(5)	0.203	2.87 m/s	300R RRU Class 2 6.193 @ 1 in 22.8	116.0	2.255	121.916	124.466	124.390	0.000
0.044(5)	0.097	1.37 m/s	300R RRU Class 2 5.162 @ 1 in 100	116.0	2.413	122.276	124.689	124.478	8.183
0.031(5)	0.040	1 m/s	225R RRU Class 2 4.380 @ 1 in 128	116.0	1.931	122.714	124.705	124.564	13.385
0.017(5)	0.045	1.13 m/s	225R RRU Class 2 35.917 @ 1 in 100	116.0	1.680	123.213	124.888	124.673	17.734
0.017(5)	0.045	1.13 m/s	225R RRU Class 2 12.751 @ 1 in 100	116.0	1.628	123.241	124.956	124.501	66.002

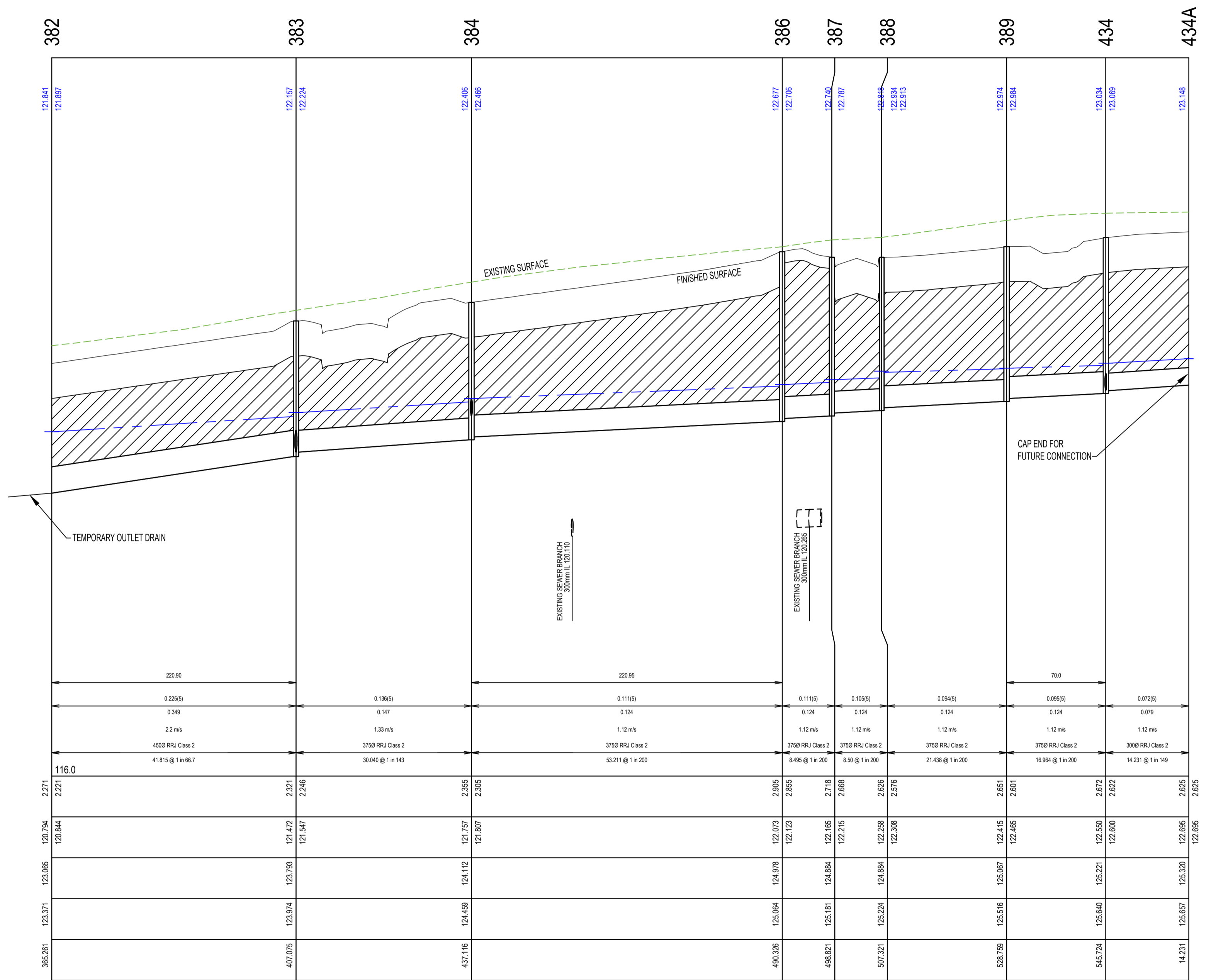
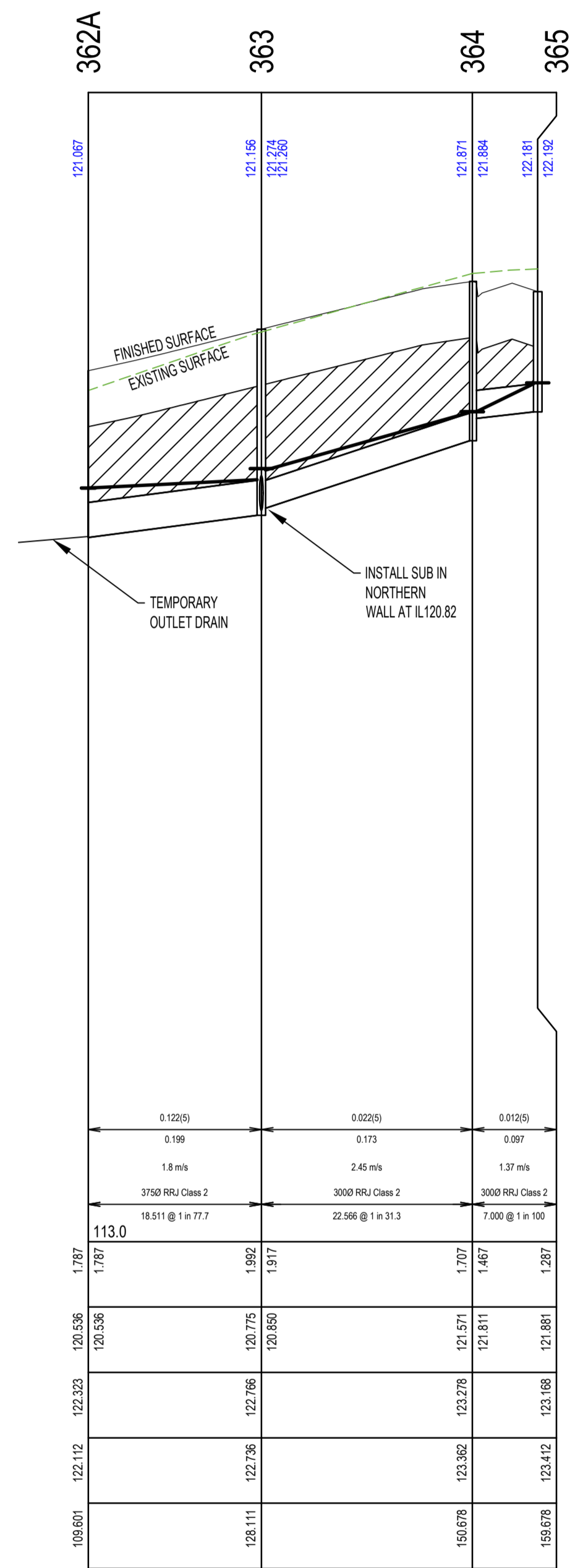
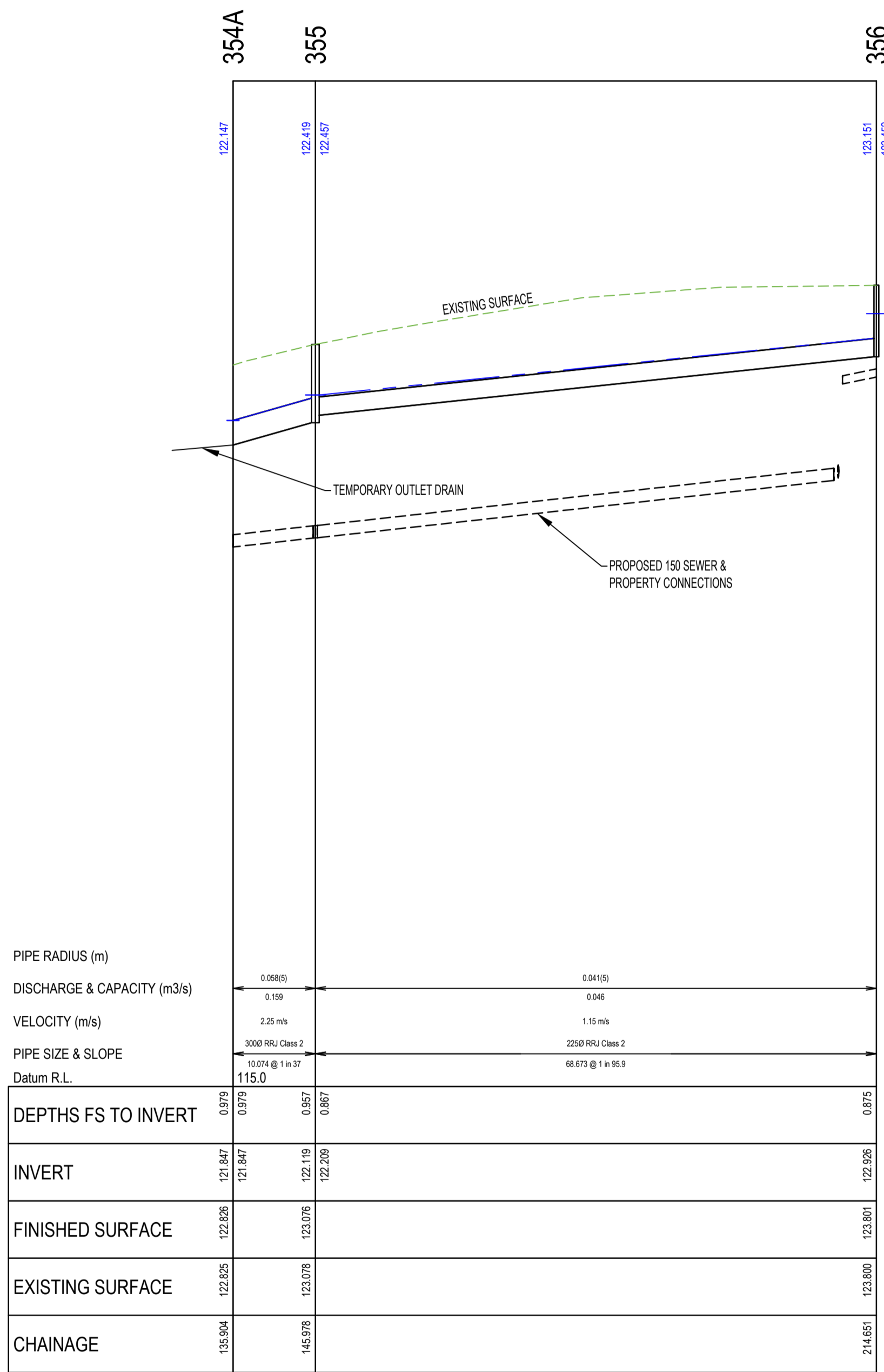
- LEGEND:**
- EXISTING SURFACE PROFILE
 - FINISHED SURFACE PROFILE
 - INDICATES SYR HGL
 - ▨ INDICATES CRUSHED ROCK BACKFILL



PRELIMINARY

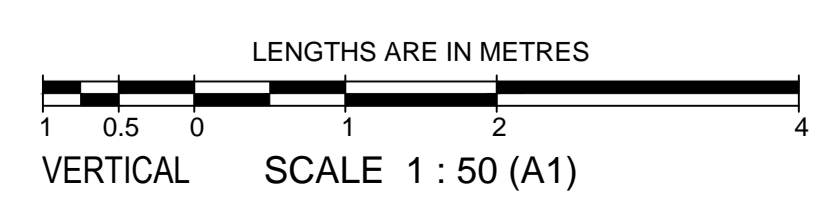
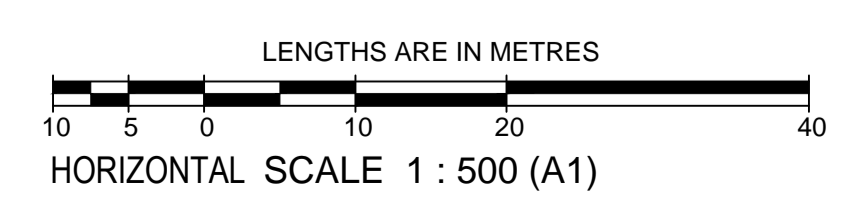
AMENDMENTS				 breese pitt dixon pty. ltd. land surveyors civil engineers	ASPIRE ESTATE STAGE 26A DRAINAGE LONGITUDINAL SECTIONS - SHEET 1	MUNICIPALITY MELTON REFERENCE 8226 E/26A				
	MELWAY REF.	354-C-12	MUNICIPALITY				MELTON			
	SURVEY	BPD	REFERENCE				8226 E/26A			
	DESIGN	J.B	SHEET				11 OF 19			
DRAWN	I.W	SCALE	AS SHOWN	DATUM	AHD	DATE	-	SHEET	11 OF 19	P3

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




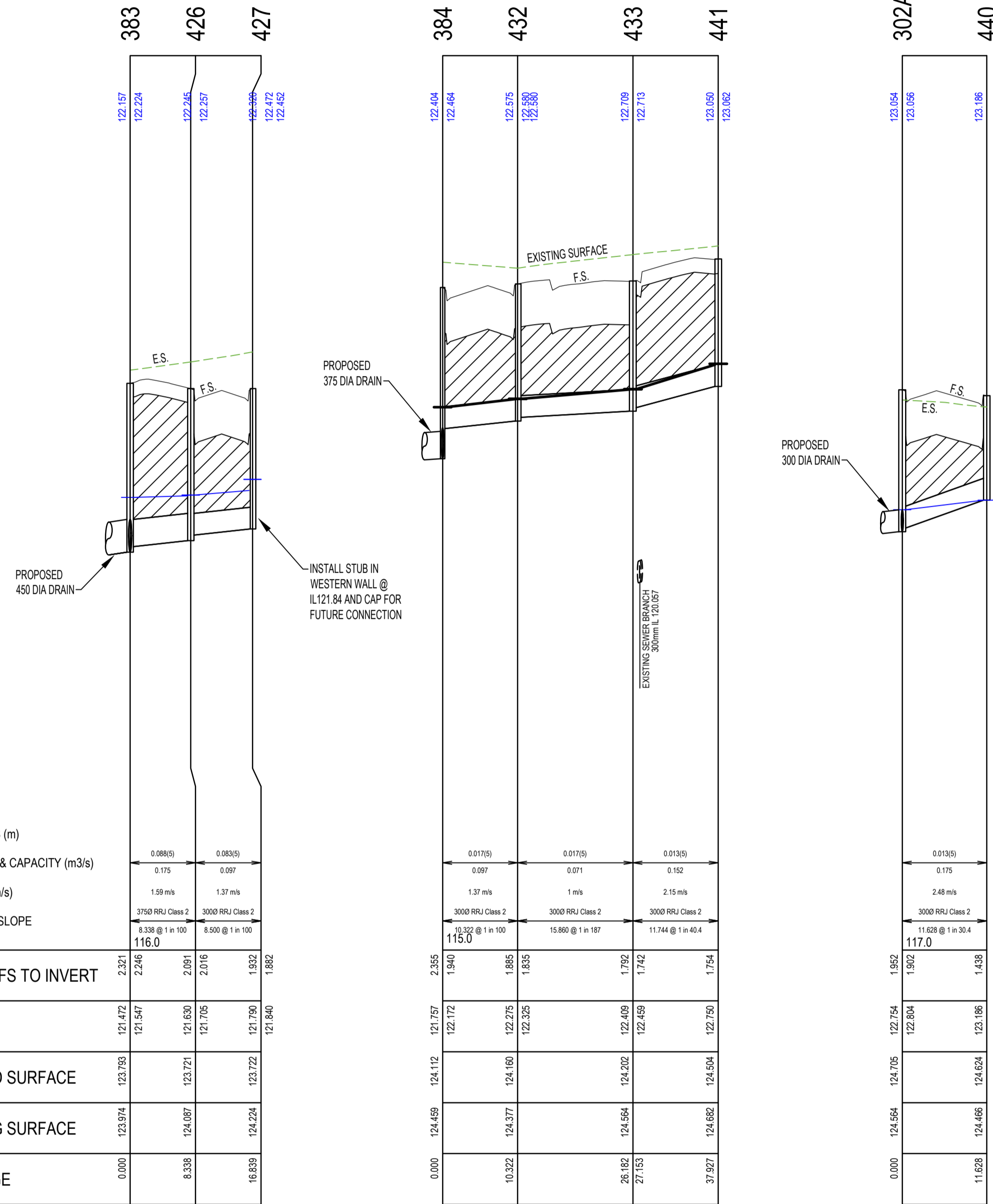
LEGEND:

- EXISTING SURFACE PROFILE
- FINISHED SURFACE PROFILE
- INDICATES SYR HGL
- ▨ INDICATES CRUSHED ROCK BACKFILL



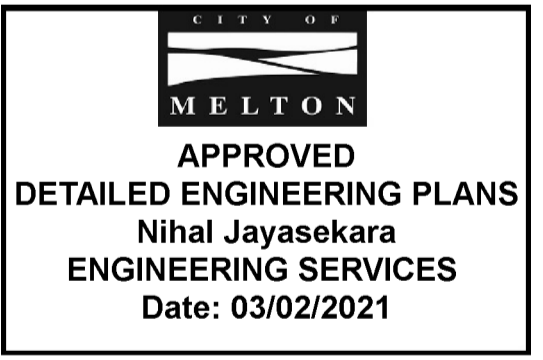
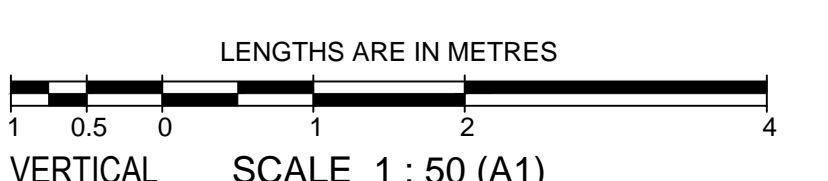
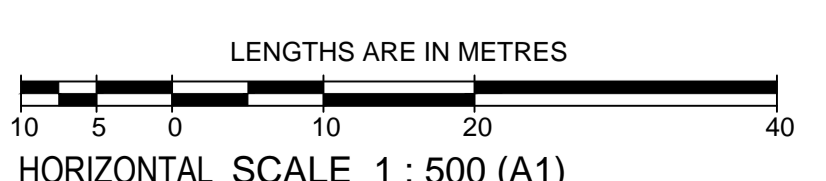
PRELIMINARY

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.	354-C-12	ASPIRE ESTATE STAGE 26A			MUNICIPALITY	MELTON			
	SURVEY	BPD				REFERENCE	8226 E/26A			
	DESIGN	J.B				DRAINAGE LONGITUDINAL SECTIONS - SHEET 2				
DRAWN	I.W	SCALE	AS SHOWN	DATUM	AHD	DATE	-	SHEET	12 OF 19	P3
VER	DATE	REMARKS	CHECKED	-						



PIPE RADIUS (m)	DISCHARGE & CAPACITY (m3/s)	VELOCITY (m/s)	PIPE SIZE & SLOPE	Datum R.L.
0.0835	0.175	1.59 m/s	3750 RRJ Class 2 8.338 @ 1 in 100	116.0
0.0835	0.097	1.37 m/s	3000 RRJ Class 2 8.500 @ 1 in 100	116.0
0.0175	0.097	1.37 m/s	3000 RRJ Class 2 15.860 @ 1 in 187	115.0
0.0175	0.071	1 m/s	3000 RRJ Class 2 11.744 @ 1 in 40.4	117.0
0.0135	0.152	2.15 m/s	3000 RRJ Class 2 11.628 @ 1 in 30.4	117.0
0.0135	0.175	2.48 m/s	3000 RRJ Class 2 11.628 @ 1 in 30.4	117.0

DEPTHS FS TO INVERT	INVERT	FINISHED SURFACE	EXISTING SURFACE	CHAINAGE
2.321	121.472	123.953	123.974	0.000
2.246	121.547	123.793	124.087	8.338
2.091	121.630	123.721	124.224	16.839
2.355	121.757	124.112	124.459	0.000
1.940	122.172	124.112	124.459	10.522
1.885	122.275	124.160	124.377	26.182
1.835	122.325	124.160	124.377	27.153
1.792	122.409	124.202	124.594	37.827
1.742	122.459	124.202	124.594	
1.952	122.754	124.705	124.666	11.628
1.902	122.804	124.705	124.666	
1.438	123.188	124.624	124.624	

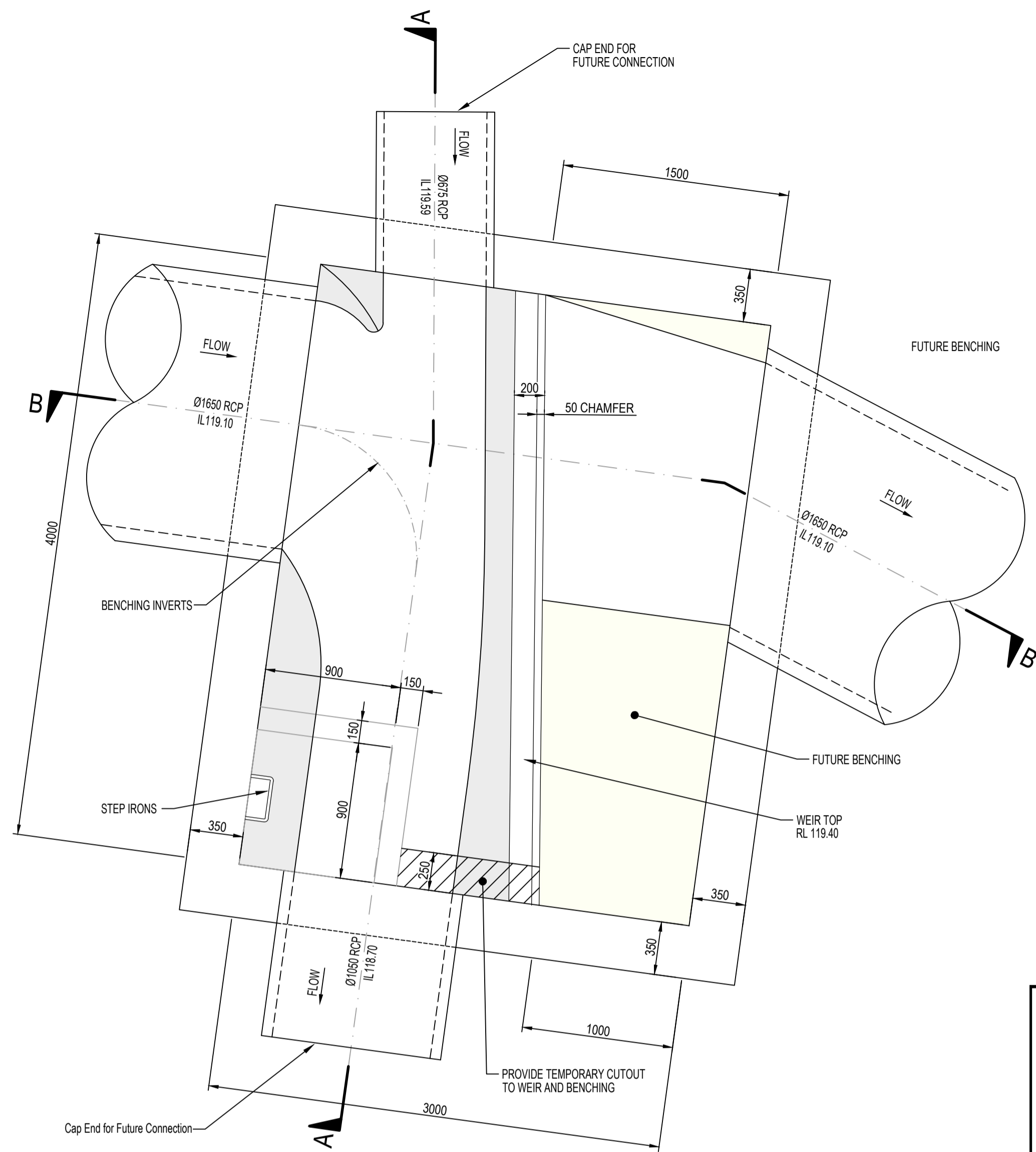


PIT No.	DESCRIPTION	INTERNAL DIMENSIONS		INLET		OUTLET		BRANCH CONNECTION		TOP OF PIT	DEPTH OF PIT	REMARKS
		L	W	DIA	LEVEL	DIA	LEVEL	DIA	LEVEL			
238	End of Pipe (Existing)	-	-	1650	120.584	1650	120.584			124.051	3.488	Connect to Existing End of Pipe & Make Good
247	End of Pipe	-	-	1650	119.997					121.867	3.089	E: 299238.406, N: 5824872.263.
248	Pipe Junction	-	-	1650	118.874	1650	118.874			122.209	3.535	E: 299238.765, N: 5824904.303.
249	Pipe Junction	-	-	1650	118.895	1650	118.895			122.552	3.657	E: 299228.632, N: 5824911.379.
251	Junction Pit	3000	4000	1650	119.117	1650	118.704	675	119.59	122.403	3.699	Melbourne Water Standard Drawing T251008/404. Detail on Sheet 14 (Drainage Pit Detail). Lid to be Converted in Future Stage.
252	Junction Pit	2100	900	1650	119.528	1650	119.478			122.936	3.458	E: 299223.809, N: 5824909.920 / E: 299224.499, N: 5824909.796. Melbourne Water Standard Drawing T251008/404. Lid to be Converted in Future Stage.
253	Pipe Junction	-	-	1650	119.975	1650	119.975			123.086	3.111	E: 299100.006, N: 5824929.701.
254	Pipe Junction	-	-	1650	120.176	1650	120.176			123.361	3.185	E: 299065.808, N: 5824938.688.
302A	Junction Pit	600	900	225	122.774	300	122.754	300	122.804	124.705	1.952	EDCM605 with Class B Cover.
313	Channel Grating Pit	600	900	225	122.858	325	122.808			124.688	1.88	Construct Pit around Existing End of Pipe & Remove Cap. EDCM601-405 with Class B Cover.
313A	Pipe Junction	-	-	225	123.213	225	123.213			124.893	1.68	E: 299003.6585, N: 5824938.0689.
314	Channel Grating Pit	600	900	225	123.213	225	123.341			124.968	1.628	EDCM601-405 with Class B Cover.
354A	End of Pipe	-	-	300	121.847	300	121.847			122.826	0.979	Construct Temporary Outlet Drain to Daylight. E: 299071.5128, N: 5824823.0619.
355	Junction Pit	600	900	225	122.209	300	122.119			123.076	0.857	EDCM605 with Class B Cover.
356	Junction Pit	600	900	225	122.928	225	122.928			123.801	0.875	EDCM605 with Class B Cover.
362A	End of Pipe	-	-	375	120.536	375	120.536			122.323	1.787	Construct Temporary Outlet Drain to Daylight. E: 299107.8582, N: 5824852.0093.
383	Junction Pit	600	900	300	120.85	375	120.775	375	120.825	122.766	1.992	EDCM607 with Class B Cover. E: 299088.9039, N: 5824854.8851 / E: 299089.8106, N: 5824854.7416.
384	Channel Grating Pit	600	900	300	121.811	300	121.571			123.278	1.707	EDCM601-405 with Class B Cover.
385	Channel Grating Pit	600	900	300	122.123	300	121.881			123.168	1.287	EDCM601-405 with Class B Cover.
382	End of Pipe	-	-	450	120.844					123.065	2.271	E: 298950.9967, N: 5824775.6488.
383	Junction Pit	900	900	375	121.547	450	121.472	375	121.547	123.793	2.321	EDCM607 with Class B Cover. E: 298951.7966, N: 5824817.7945 / E: 298951.7069, N: 5824816.9421.
384	Channel Grating Pit	600	900	375	121.807	375	121.757	300	121.172	124.112	2.355	EDCM601-405 with Class B Cover.
386	Junction Pit	600	900	375	122.123	375	122.073			124.978	2.905	EDCM605 with Class B Cover. E: 298975.5417, N: 5824896.8840 / E: 298975.9380, N: 5824896.8840.
387	Channel Grating Pit	600	900	375	122.215	375	122.165			124.884	2.718	EDCM601-405 with Class B Cover.
388	Channel Grating Pit	600	900	375	122.308	375	122.258			124.884	2.628	EDCM601-405 with Class B Cover.
389	Junction Pit	600	900	375	122.465	375	122.415			125.067	2.651	EDCM605 with Class B Cover.
426	Junction Pit	600	900	300	121.705	375	121.63			123.721	2.091	EDCM605 with Class B Cover. Lid to be Converted in Future Stage.
427	Junction Pit	600	900	300	121.84	300	121.79			123.722	1.932	EDCM605 with Class B Cover. Lid to be Converted in Future Stage.
432	Junction Pit	600	900	300	122.325	300	122.275			124.16	1.885	EDCM605 with Class B Cover.
433	Channel Grating Pit	600	900	300	122.459	300	122.409			124.202	1.792	EDCM601-405 with Class B Cover.
434	Junction Pit	600	900	300	122.8	375	122.55			125.221	2.672	EDCM605 with Class B Cover.
434A	End of Pipe	-	-	300	122.895	300	122.895			125.32	2.825	Cap End for Future Connection Lid to be Converted in Future Stage.
440	Channel Grating Pit	600	900	300	123.188					124.624	1.438	EDCM601-405 with Class B Cover.
441	Channel Grating Pit	600	900	300	122.75					124.504	1.754	EDCM601-405 with Class B Cover.

- LEGEND:**
- EXISTING SURFACE PROFILE
 - FINISHED SURFACE PROFILE
 - INDICATES SYR HGL
 - ▨ INDICATES CRUSHED ROCK BACKFILL

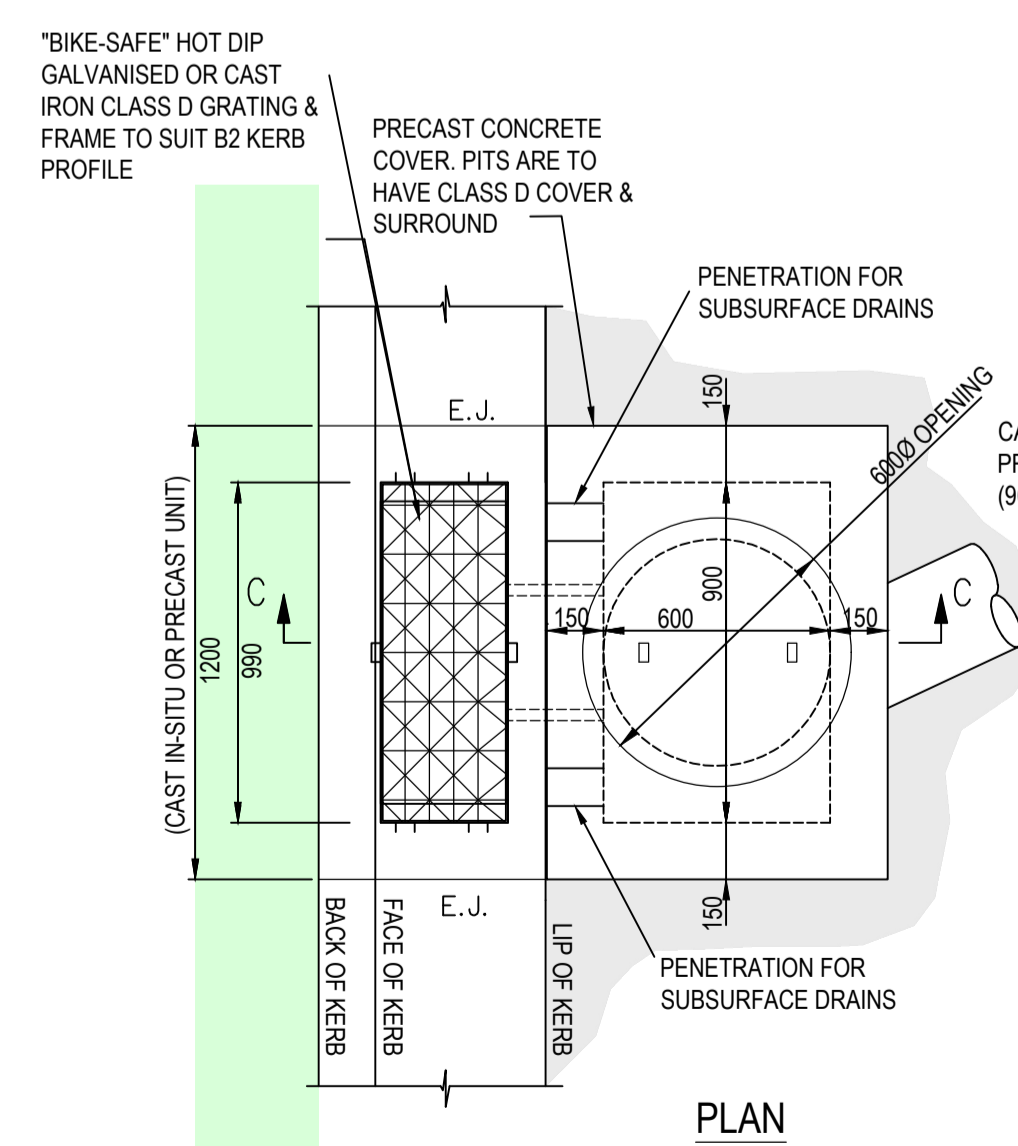
PRELIMINARY

AMENDMENTS				 land surveyors civil engineers	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF. 354-C-12	ASPIRE ESTATE STAGE 26A DRAINAGE STRUCTURE DETAILS			MUNICIPALITY MELTON
		SURVEY BPD				REFERENCE 8226 E/26A
		DESIGN J.B				SHEET 13 OF 19 P3
	DRAWN I.W					
	CHECKED -	SCALE AS SHOWN	DATUM AHD	DATE -		

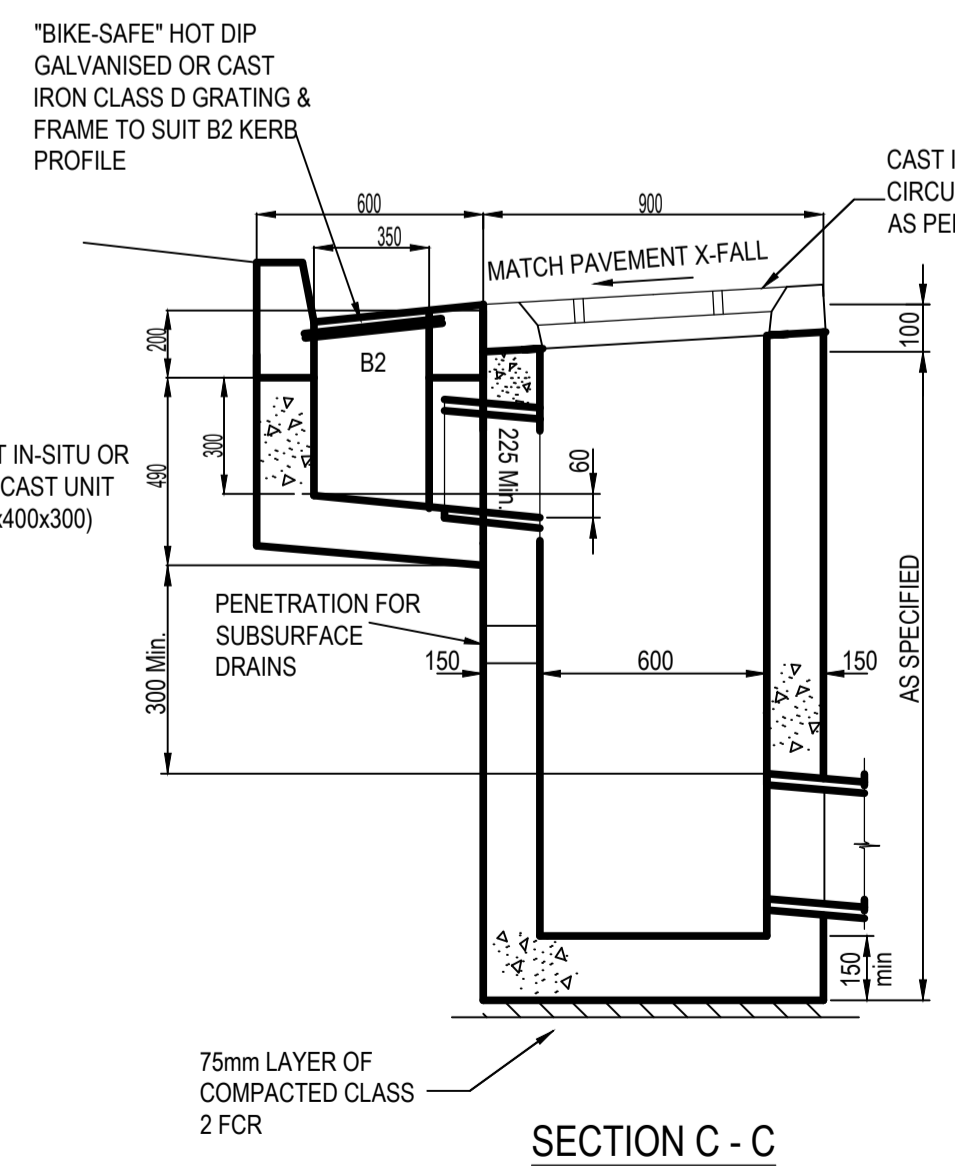


PIT 251 DETAIL PLAN
SCALE 1:25

NOTE:
REFER MELBOURNE WATER STANDARD
DRAWING 725108/404 FOR
REINFORCEMENT DETAILS

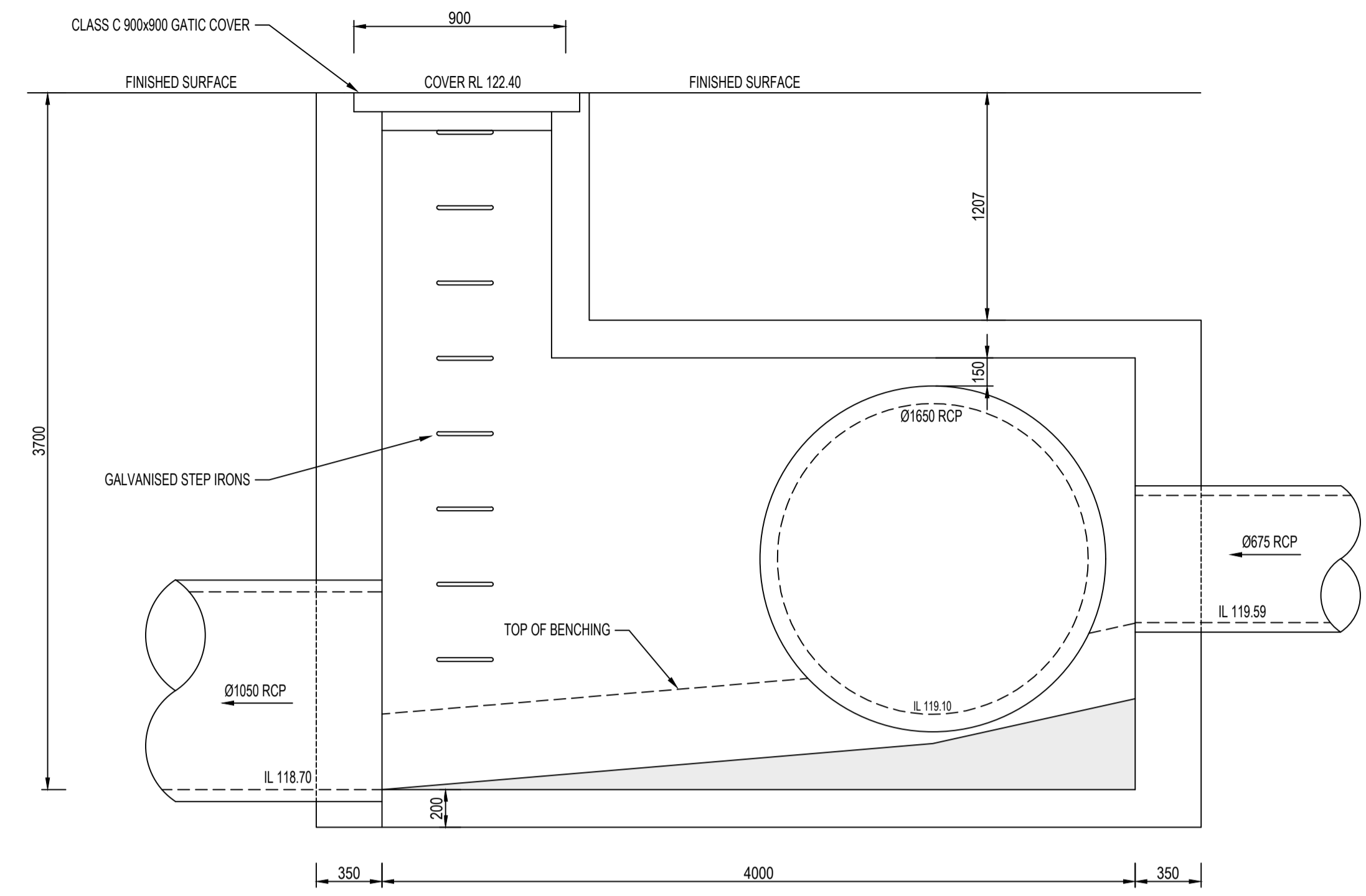
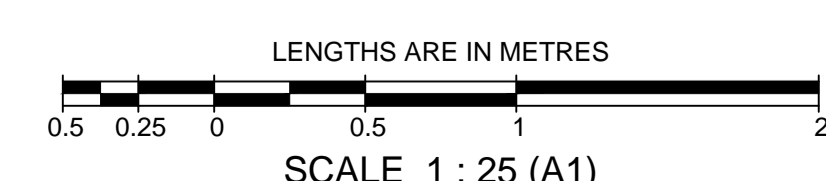


**SINGLE SIDE ENTRY PIT GRATED
B2 KERB AND CHANNEL
UNDER ROAD (365 & 433)**
NOT TO SCALE

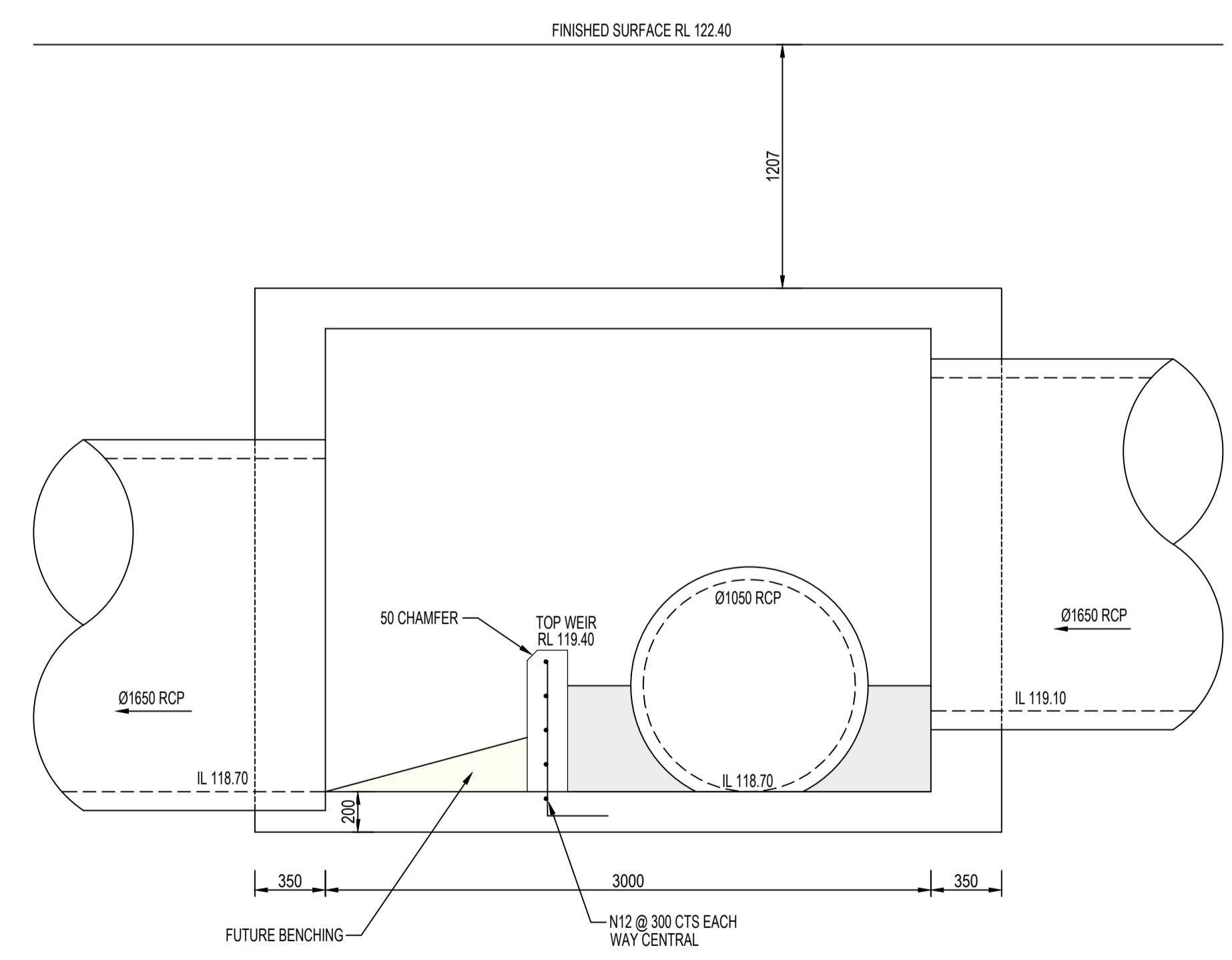


- NOTES:**
1. ALL WALLS TO BE 150mm THICK
 2. FOR PRECAST CONCRETE COVER DETAILS REFER TO STD. SD275
 3. THE TOP OF THE PIT SHALL MATCH THE PAVEMENT CROSSFALL
 4. PIT TO BE HAUNCHED FOR PIPE DIAMETER OVER 450mm OR DEPTH EXCEEDS 2m REFER TO STD. SD245
 5. PROVIDE IRON STEPS FOR PIT DEPTHS EXCEEDING 1m. REFER ST. STD. SD280
 6. CONCRETE STRENGTH 32mpa AT 28 DAYS.
 7. FOR GRATE DETAILS SEE STD. SD277 & SD278
 8. EXPANSION JOINTS TO BE INSTALLED EITHER SIDE OF GREATED PITS WITH 3 No. 450mm LONG R16 BARS GREASED OR SLEEVED ONE END.
 9. PROVIDE S12 REINFORCEMENT FOR PITS IF DEPTHS GREATER THAN 1200mm.

MELTON
APPROVED
DETAILED ENGINEERING PLANS
Nihal Jayasekera
ENGINEERING SERVICES
Date: 03/02/2021



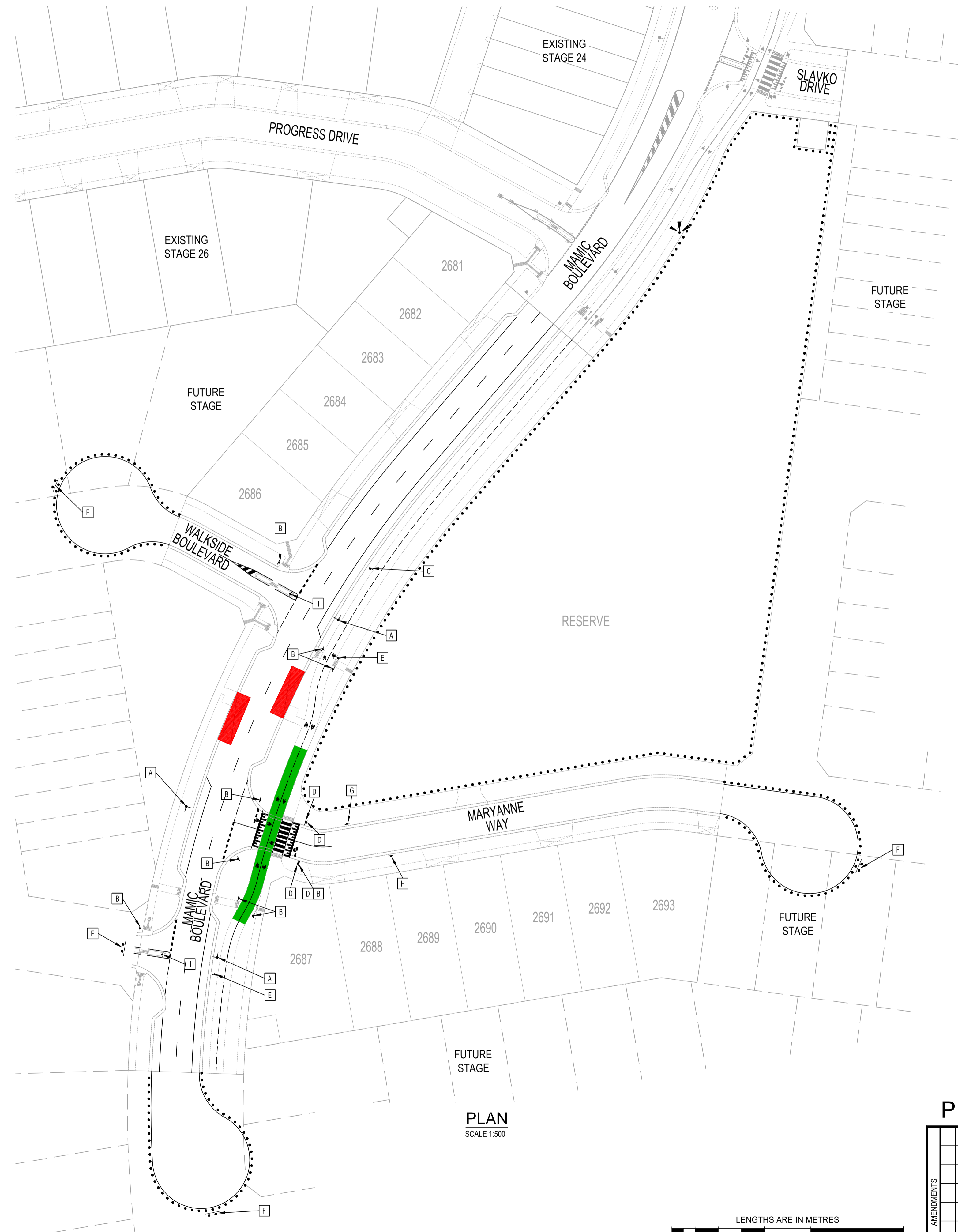
SECTION A - A - DRAINAGE PIT
SCALE 1:25



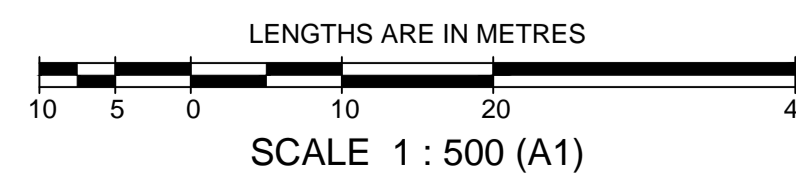
SECTION B - B - DRAINAGE PIT
SCALE 1:25

PRELIMINARY



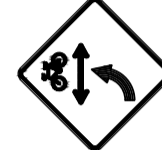



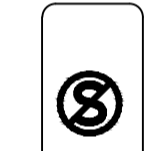
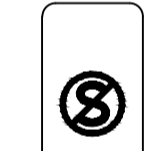

AMENDMENTS		 land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310				
		MELWAY REF.	354-C-12	ASPIRE ESTATE STAGE 26A DRAINAGE PIT DETAILS				
		SURVEY	BPD			MUNICIPALITY	MELTON	
		DESIGN	J.B			REFERENCE	8226 E/26A	
		DRAWN	I.W			SHEET	14 OF 19 P3	
VER	DATE	REMARKS	CHECKED	SCALE	DATUM	AHD	DATE	





PLAN
SCALE 1:500



SIGNAGE LEGEND


-  [A] STREET SIGNS (R5-1)
-  [B] GIVEWAY SIGN (R1-2)
-  [C] GIVEWAY ON SIDE ROAD SIGN (VIC ROADS SIGN)
-  [D] PEDESTRIAN CROSSING SIGN (R3-1B)
-  [E] CYCLIST AND PEDESTRIAN CROSSING SIGN (VIC ROADS SIGN)
-  [F] BIDIRECTIONAL HAZARD MARKER SIGN (R1-3)
-  [G] NO PARKING LEFT SIGN (R5-35 LEFT)
-  [H] NO PARKING RIGHT SIGN (R5-35 RIGHT)
-  [I] KEEP LEFT SIGN (R2-3A(L))

COLOURED SURFACE TREATMENTS

-  INDICATES GREEN SURFACE TREATMENT FOR BICYCLE USE. COLOUR TO BE EMERALD GREEN G13 AND MEET REQUIREMENTS SET OUT IN VICROADS SPECIFICATIONS SECTION 431 - COLOURED SURFACE TREATMENTS.
-  INDICATES RED SURFACE TREATMENT FOR BUS USE. COLOUR TO BE RASPBERRY R54 AND MEET REQUIREMENTS SET OUT IN VICROADS SPECIFICATIONS SECTION 431 - COLOURED SURFACE TREATMENTS.

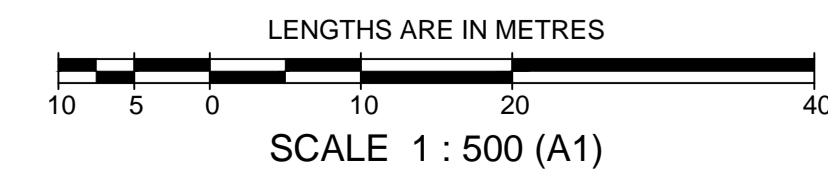

**APPROVED
DETAILED ENGINEERING PLANS**
Nihal Jayasekara
ENGINEERING SERVICES
Date: 03/02/2021

PRELIMINARY

AMENDMENTS			 breese pitt dixon pty. ltd. land surveyors civil engineers	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
				MUNICIPALITY MELTON	
				REFERENCE 8226 E/26A	
				SHEET 15 OF 19 P3	
			MELWAY REF. 354-C-12 SURVEY BPD DESIGN J.B DRAWN I.W	ASPIRE ESTATE STAGE 26A SIGNAGE & LINEMARKING PLAN	SCALE AS SHOWN DATUM AHD DATE -
			CHECKED - VER DATE REMARKS		



PLAN
SCALE 1:500

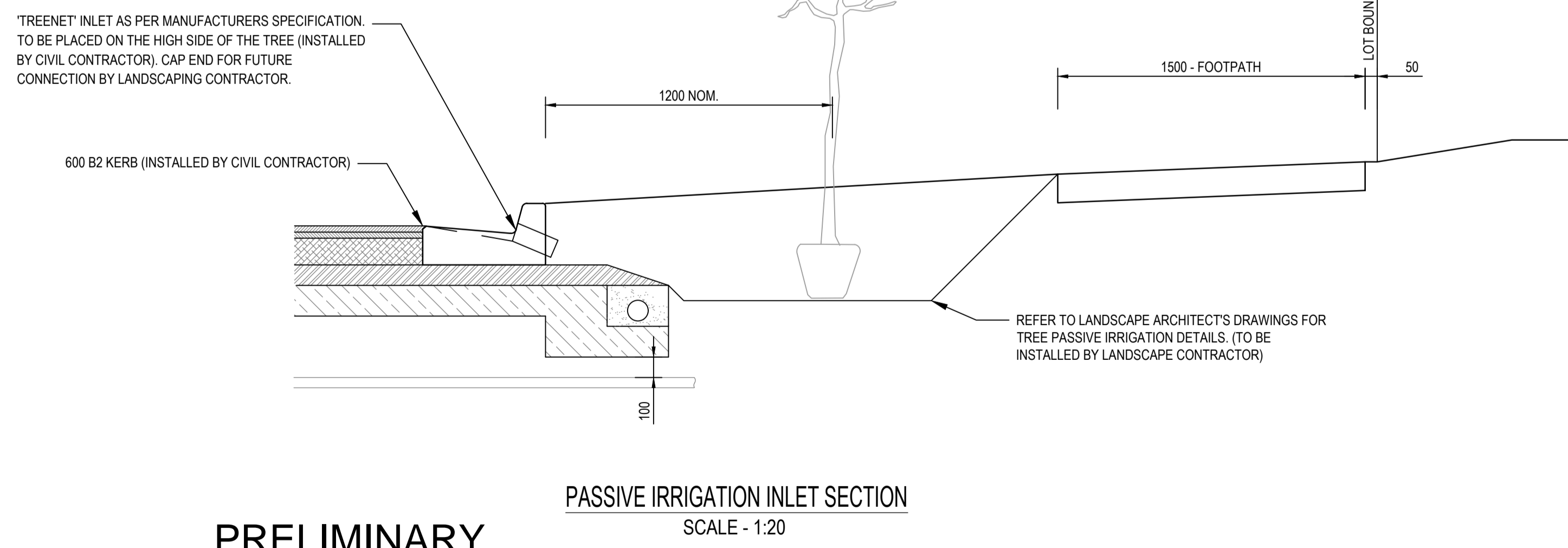
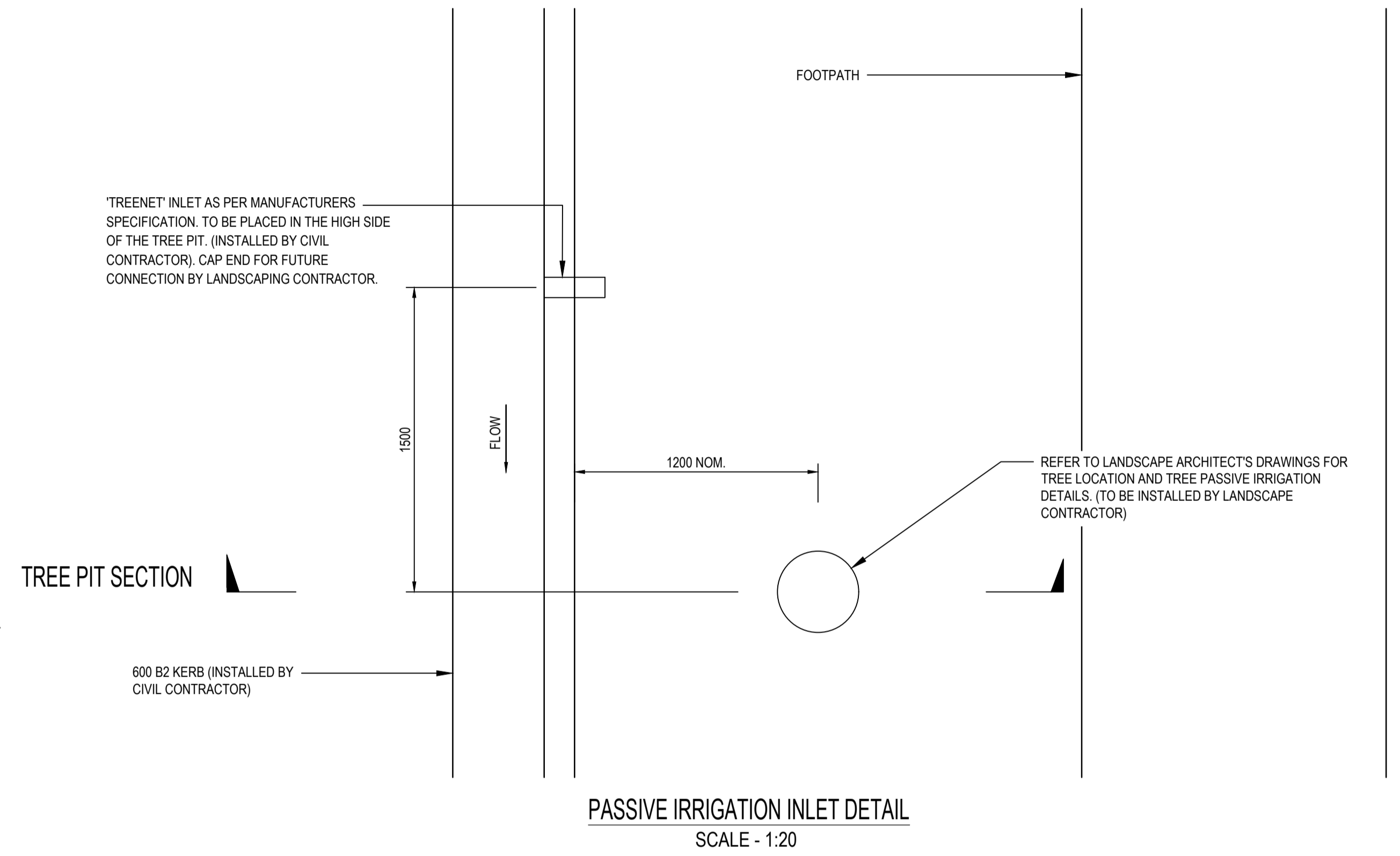


MELTON
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DETAILED ENGINEERING PLANS
Nihal Jayasekara
ENGINEERING SERVICES
Date: 03/02/2021

LEGEND

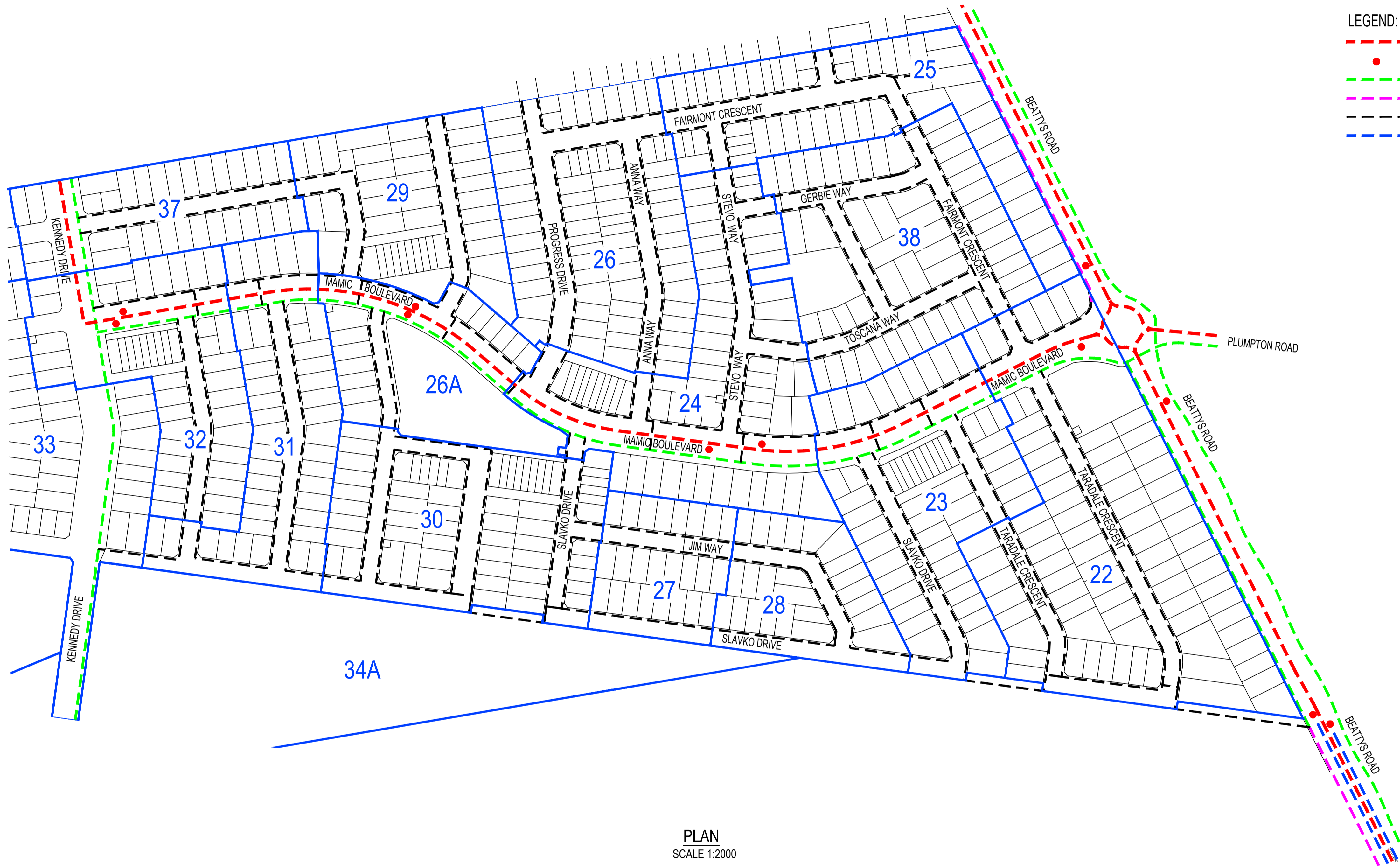
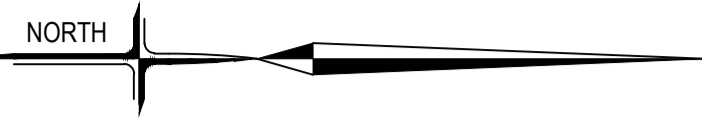
- PROPOSED PASSIVE IRRIGATION TREE PITS
- EXISTING PASSIVE IRRIGATION TREE PITS

NOTE:
LOCATION OF "TREENET" INLET TO BE COORDINATED WITH FINAL COUNCIL ENDORSED LANDSCAPE ARCHITECTS DRAWINGS.



PRELIMINARY

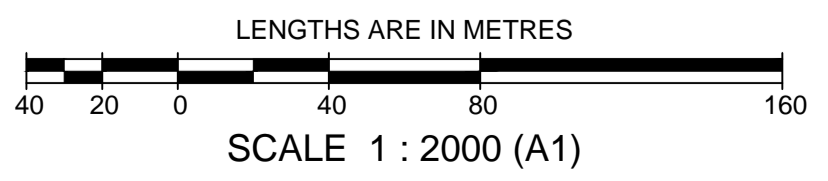
AMENDMENTS				1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
VER	DATE	REMARKS	MELWAY REF. 354-C-12 SURVEY BPD DESIGN J.B DRAWN I.W	ASPIRE ESTATE STAGE 26A PASSIVE IRRIGATION PLAN	
			CHECKED -	SCALE AS SHOWN	DATUM AHD
				DATE -	
				SHEET 16 OF 19	P3




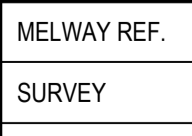
- LEGEND:**
- - - POTENTIAL BUS ROUTE (AS PER PSP)
 - TV BUS STOP LOCATION
 - - - 3.0m WIDE SHARED PATH
 - - - 2.0m WIDE SHARED PATH
 - - - 1.5m WIDE FOOTPATH
 - - - ON ROAD BIKE LANE (BOTH SIDES) AS PER PSP

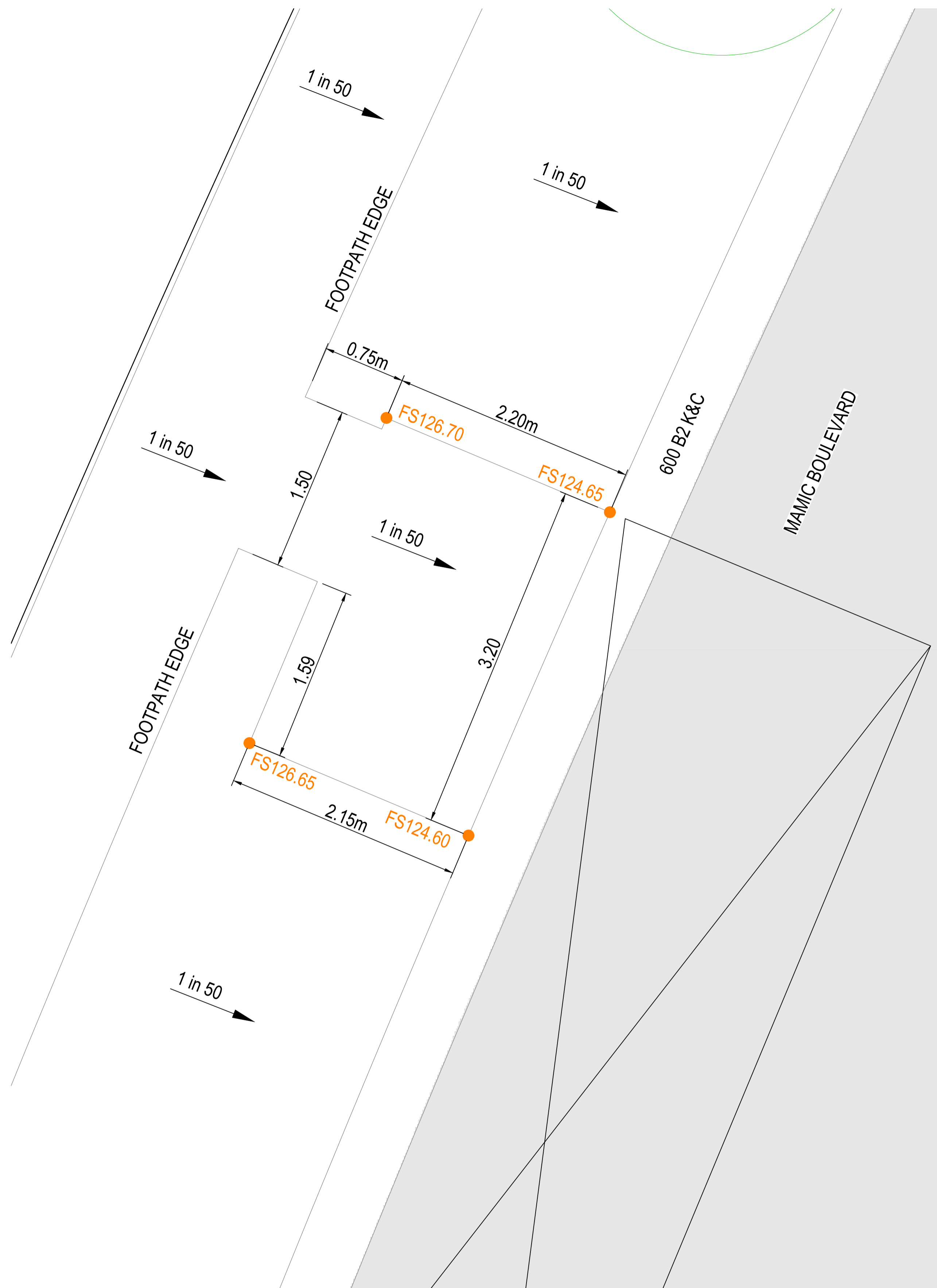
PLAN
SCALE 1:2000


APPROVED
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 Nihal Jayasekara
 ENGINEERING SERVICES
 Date: 03/02/2021



PRELIMINARY

AMENDMENTS			 breese pitt dixon pty. ltd. land surveyors civil engineers	ASPIRE ESTATE STAGE 26A MOBILITY PLAN	MUNICIPALITY MELTON REFERENCE 8226 E/26A	
	NO.	DATE				REMARKS
	VER.	DATE				REMARKS
	CHECKED	-				
				1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	MUNICIPALITY MELTON REFERENCE 8226 E/26A	
			SCALE AS SHOWN DATUM AHD DATE -	SHEET 17 OF 19 P3		




PLAN
NOT TO SCALE



PLAN
NOT TO SCALE

MELTON
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Nihal Jayasekara
ENGINEERING SERVICES
Date: 03/02/2021

PRELIMINARY

AMENDMENTS		 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310		
VER	DATE	REMARKS	MELWAY REF. 354-C-12 SURVEY BPD DESIGN J.B DRAWN I.W	ASPIRE ESTATE STAGE 26A BUS BAY DETAILS		MUNICIPALITY MELTON
			CHECKED - SCALE AS SHOWN DATUM AHD DATE -			REFERENCE 8226 E/26A
				SHEET 18 OF 19	P3	

