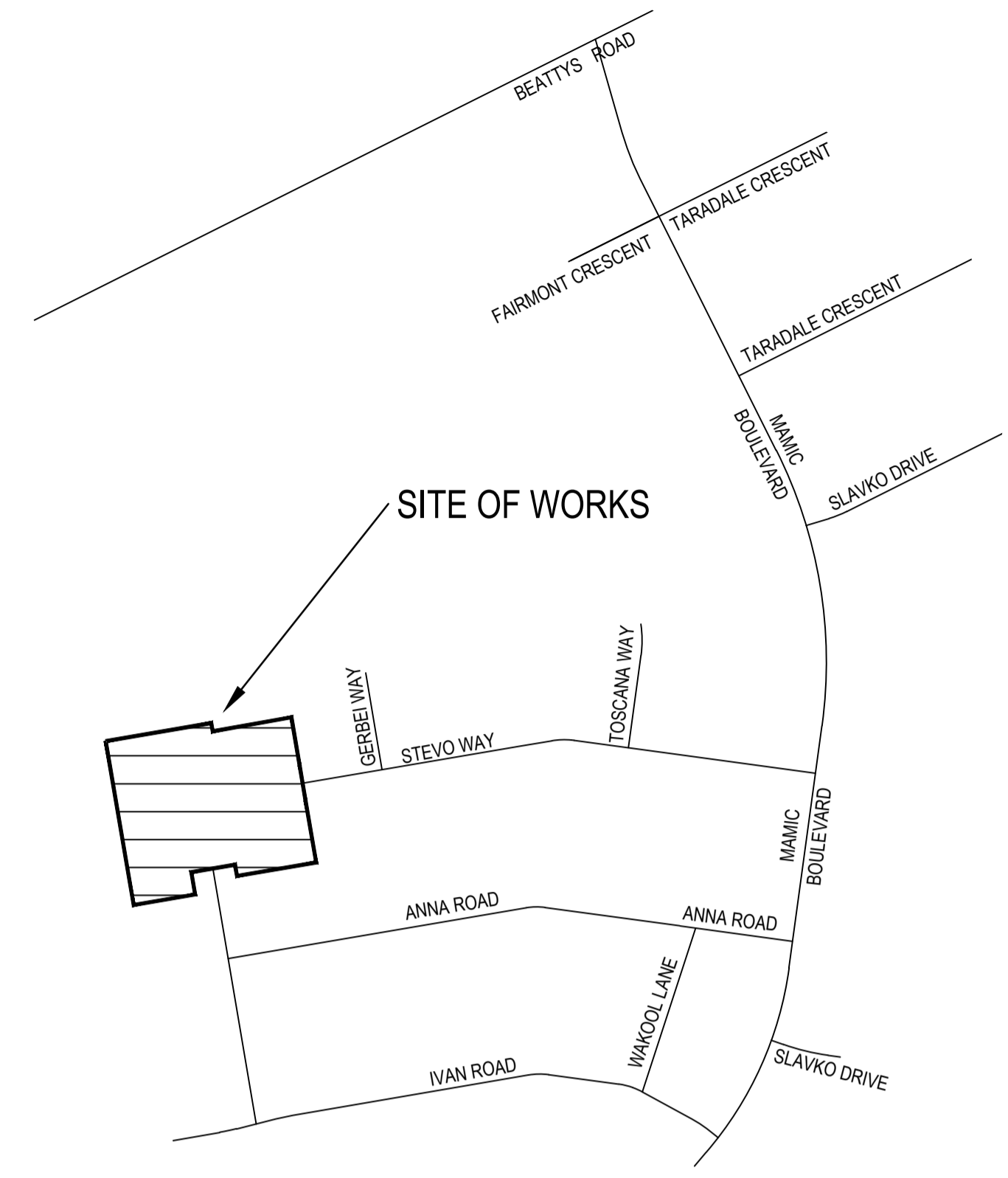


PLAN  
SCALE 1:500



SITE LOCALITY PLAN  
NOT TO SCALE

**MELTON**  
APPROVED  
DETAILED ENGINEERING PLANS  
Nihal Jayasekara  
ENGINEERING SERVICES  
Date: 28/10/2021

SHEET INDEX

SHT No.	VER	Description
1	P1	LAYOUT PLAN
2	P1	TYPICAL CROSS SECTIONS
3	P1	ROAD PAVEMENT DETAILS & NOTES
4	P1	INTERSECTION DETAIL PLANS
5	P1	LONGITUDINAL & CROSS SECTIONS FAIRMOUNT CRESCENT
6	P1	LONGITUDINAL & CROSS SECTIONS STEVO WAY
7	P1	DRAINAGE LONGITUDINAL SECTIONS DRAINAGE PIT DETAILS
8	P1	SIGNAGE & LINEMARKING PLAN
9	P1	PASSIVE IRRIGATION PLAN
10	P1	MOBILITY PLAN
11	P1	DRAINAGE CHANNEL DETAILS
12	P1	EARTHWORKS PLAN

**NOTE:**  
KERB CUTOFF FOR PASSIVE IRRIGATION. REFER TO DETAIL ON SHEET 9. FINAL STREET PIT LOCATION TO BE COORDINATED WITH LANDSCAPE DRAWINGS.

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

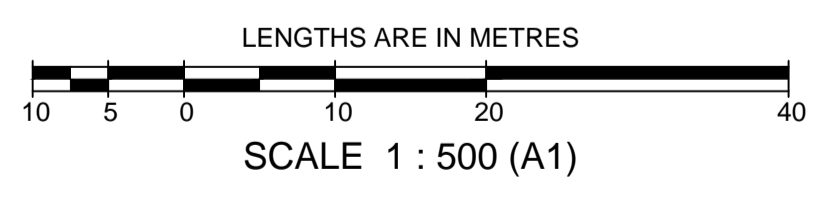
SERVICE OFFSETS AND LOCATION TABLE

Location	Gas	Water		Telecommunications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
		NDW	DW	Cables	Pits	Cables	Poles				
STEVO WAY	2.10 N	2.60 N	1.80 S	1.80 S	2.30 S	1.00 BOK	4.20 N 4.20 S	6.20 E 6.20 W	16.00	G&W, FTH&E	ACCESS PLACE
FAIRMOUNT CRESCENT	2.10 W	2.60 W	1.80 E	2.50 E	2.30 E	1.00 BOK	6.20 E 6.20 W		20.00	G&W, FTH&E	ACCESS PLACE

NOTE: \* OFFSET FROM BACK OF KERB

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.



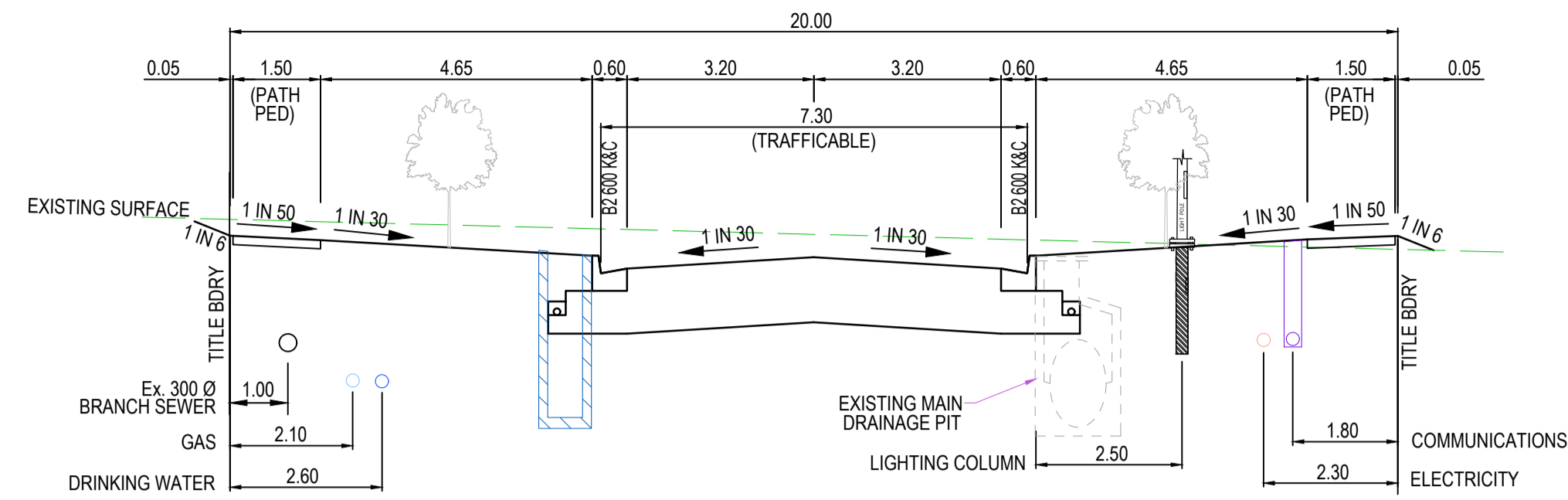
**SYMBOL LEGEND**

Prop	Prop Stage	Ex/Natural/FS Level	+28.57	+28.57
S	S	FS @ Building Line	+28.28.57	+28.28.57
W	W	Top/Toe of Batter	+10.28.57	+10.28.57
H	H	Top Ret. Wall Level	+10.28.57	+10.28.57
100yr	100yr	100yr Flood Level	+FL28.57	+FL28.57
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)		

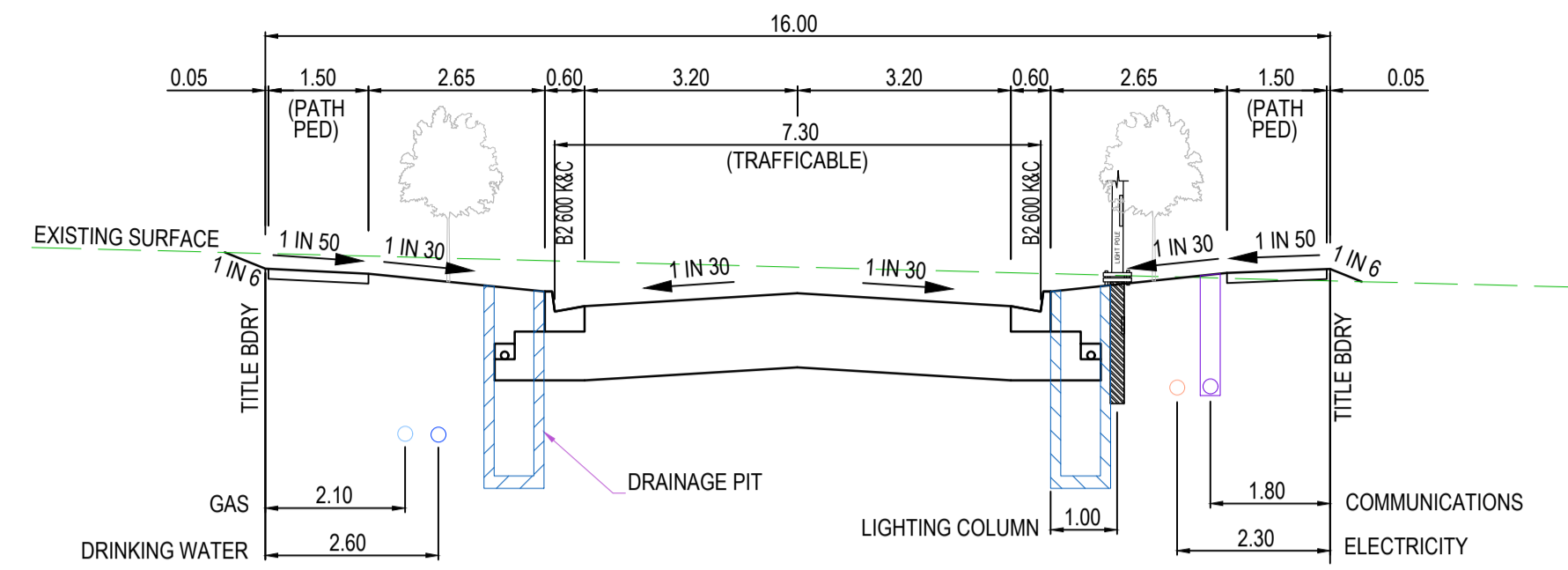
**breese pitt dixon pty. ltd.**  
land surveyors civil engineers  
1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

**ASPIRE ESTATE**  
STAGE 27A  
LAYOUT PLAN  
MELTON  
REFERENCE 8226 E/27A  
MUNICIPALITY MELTON

VER	DATE	REMARKS	CHECKED	SCALE	DATUM	AHD	DATE	SHEET
				AS SHOWN	AHD		APRIL '21	1 OF 12



**FAIRMONT CRESCENT**  
 TYPICAL SECTION A - A  
 20.0m ROAD RESERVE  
 LOCAL ACCESS STREET

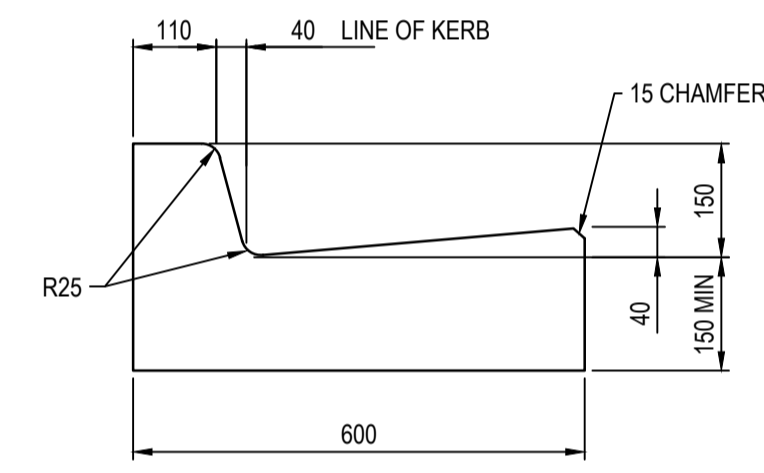


**STEVO WAY**  
 TYPICAL SECTION B - B  
 16.0m ROAD RESERVE  
 LOCAL ACCESS STREET

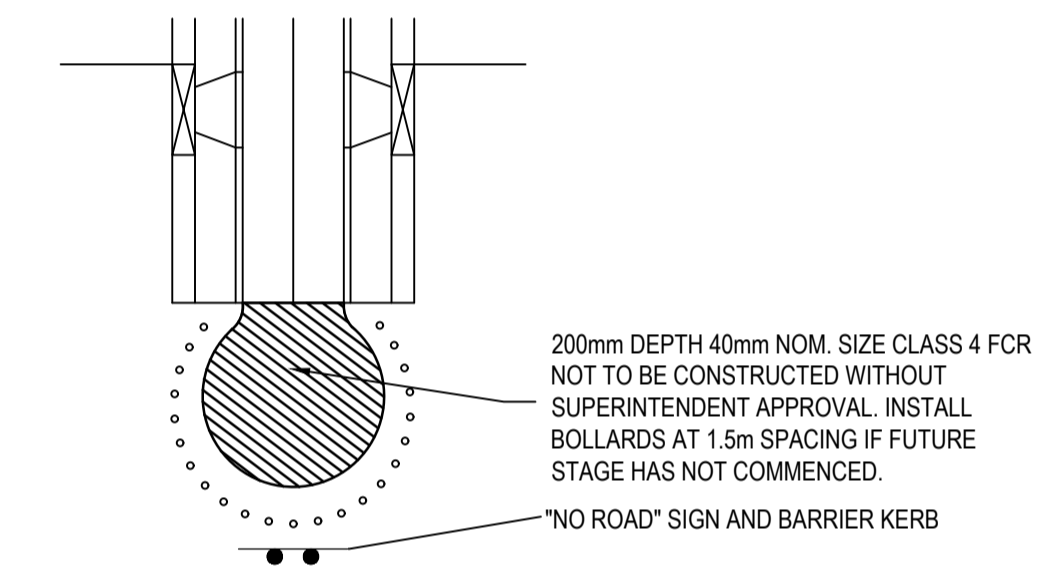
**TYPICAL CROSS SECTIONS**  
 SCALE HORIZONTAL 1:100  
 VERTICAL 1:50



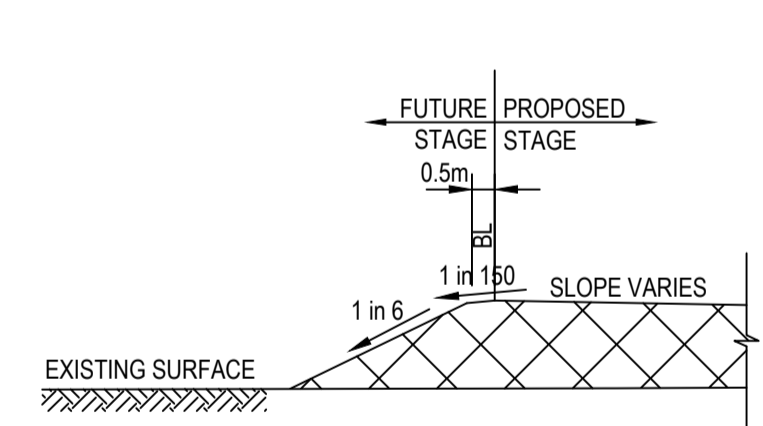
**PLAN**  
 NOT TO SCALE



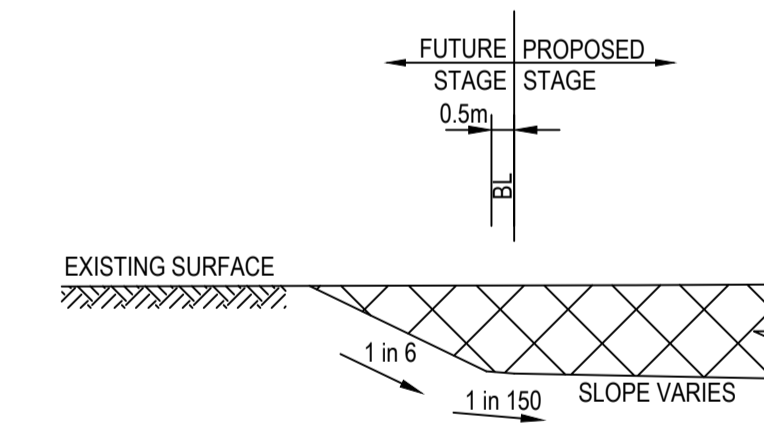
**B2 600 KERB DETAIL**  
 NOT TO SCALE



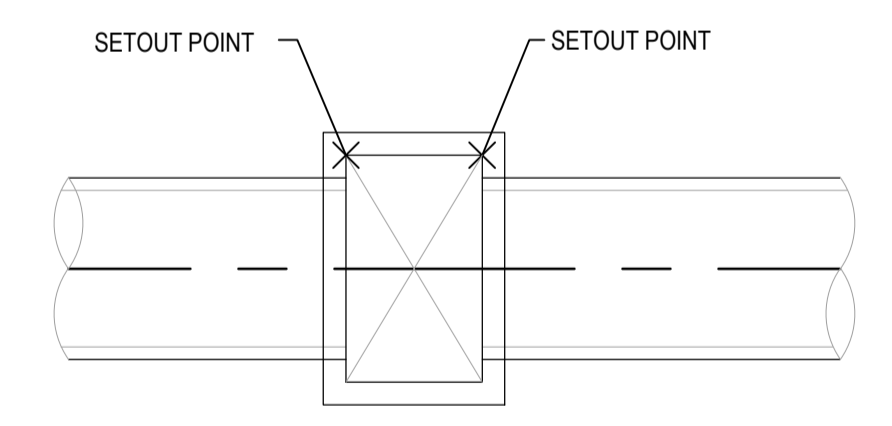
**TYPICAL TEMPORARY TURN**  
 AREA DETAIL  
 NOT TO SCALE



**TYPICAL SECTION**  
 WHEN IN FILL ON BOUNDARY  
 OF FUTURE STAGE  
 NOT TO SCALE



**TYPICAL SECTION**  
 WHEN IN CUT ON BOUNDARY  
 OF FUTURE STAGE  
 NOT TO SCALE



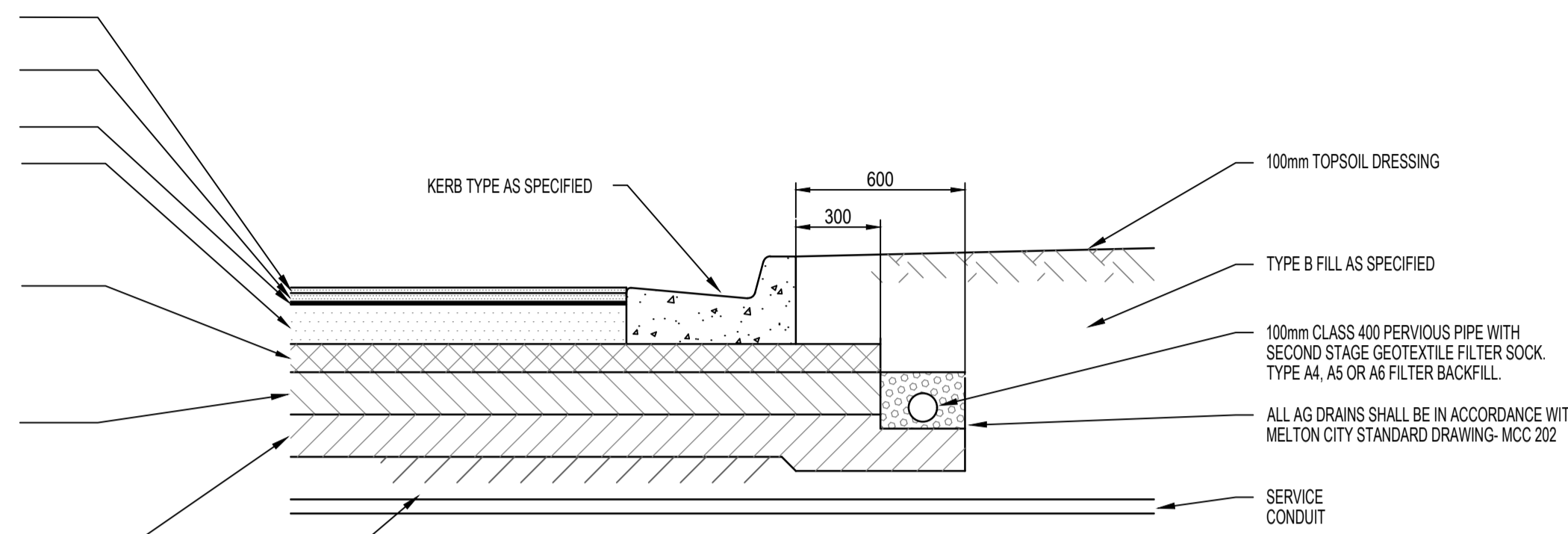
**PIT SETOUT POINT DETAIL**  
 NOT TO SCALE

**MELTON**  
 APPROVED  
 DETAILED ENGINEERING PLANS  
 Nihal Jayasekara  
 ENGINEERING SERVICES  
 Date: 28/10/2021

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	<b>ASPIRE ESTATE</b> <b>STAGE 27A</b> <b>TYPICAL CROSS SECTIONS</b>		
			SURVEY BPD			MUNICIPALITY MELTON
			DESIGN J.B			REFERENCE 8226 E/27A
			DRAWN I.W			
			CHECKED -	SCALE AS SHOWN	DATUM AHD	
				DATE APRIL '21	SHEET 02 OF 12 P1	



- a) 30mm COMPACTED DEPTH 10mm NOMINAL SIZE TYPE 'L' ASPHALT (C320 BINDER)
- b) 30mm COMPACTED DEPTH 10mm NOMINAL SIZE TYPE 'N' ASPHALT (C320 BINDER)
- c) 10mm SAMI SEAL WITH CLASS S18RF BINDER AND BITUMINOUS PRIME
- d) 130mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 2 FINE CRUSHED ROCK, COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 98% MODIFIED DRY DENSITY RATIO AND WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT
- e) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK, COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 98% MODIFIED DRY DENSITY RATIO AND WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT
- f) 160mm CAPPING LAYER - SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% STANDARD DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THAN 1.5%, PERMIABILITY  $K < 5 \times 10^{-9} \text{m/sec}$
- g) 150mm CONSTRUCTION LAYER - SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% STANDARD DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THAN 1.5%, PERMIABILITY  $K < 5 \times 10^{-9} \text{m/sec}$
- h) TOTAL PAVEMENT DEPTH 600mm
- i) SUBGRADE - NATURAL SILTY CLAY TESTED TO CONFIRM AN IN-SITU CBR OF AT LEAST 2% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR  $> 2\%$ ) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT.

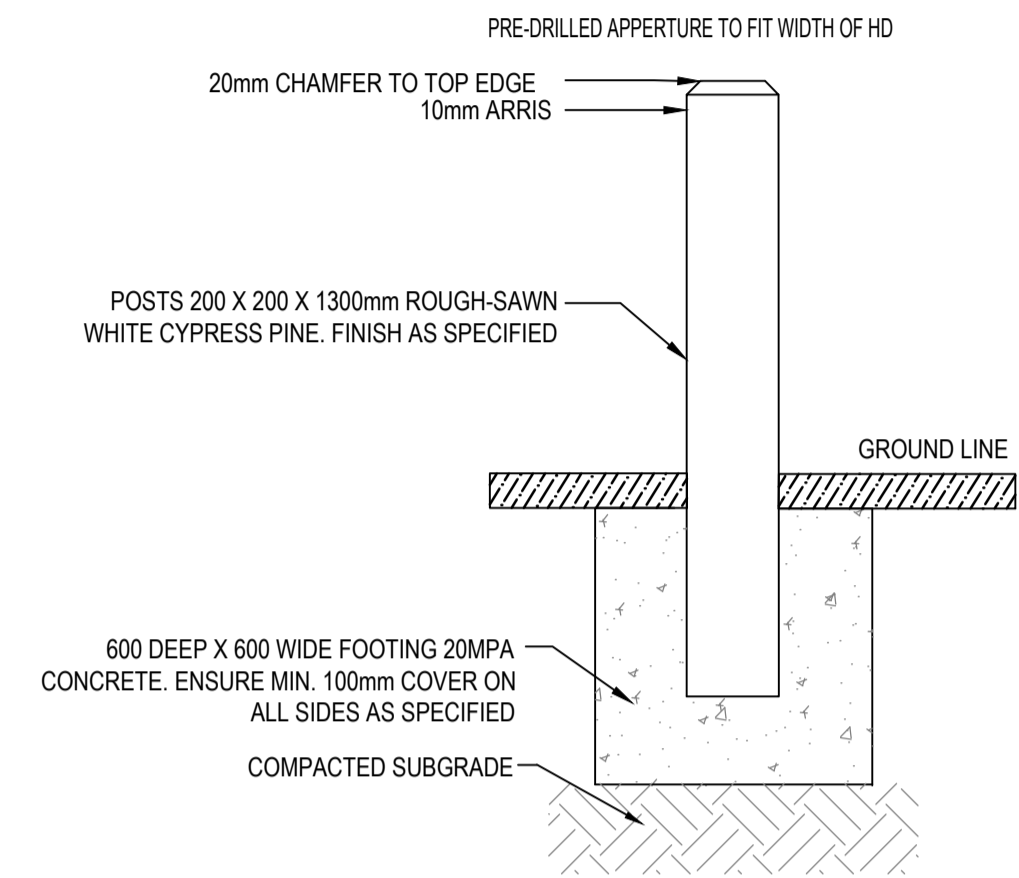


PAVEMENT DETAILS  
FAIRMONT CRESCENT & STEVO WAY - 610mm DEPTH

**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  $> 1.8 \text{ l/m}^2$  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 CRUMBED 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 BITUMENOUS PRIME, AND NOT A PRIMER SEAL, APPLIED TO THE UNDERLYING UNBOUND BASE MATERIAL.



TYPICAL BOLLARD DETAIL  
NOT TO SCALE

**GENERAL NOTES**

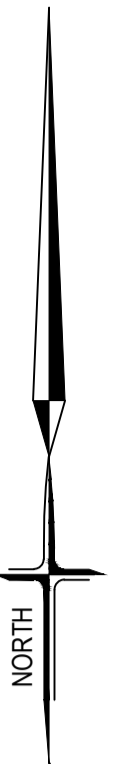
1. CONSTRUCTION PLANS MUST BE ACCOMPANIED BY THE APPROVED SPECIFICATION. NO WORK IS TO COMMENCE WITHOUT EVIDENCE OF POSSESSION OF EACH.
2. ALL WORKS TO BE CARRIED OUT TO STANDARD DRAWINGS AND SPECIFICATION AS APPROVED BY CITY OF MELTON AND TO THE SATISFACTION OF THE ENGINEER AND THE MUNICIPAL ENGINEER. IN CASE OF A DISPUTE THE SPECIFICATION MUST TAKE PRECEDENCE.
3. FOR SPECIFICATION REFER SPECIFICATION STAGE 1. TAYLORS HILL ESTATE (INCORPORATING UPDATED SECTION 1A)
4. COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
5. 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, EDM702 & EDM703.
6. 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.
7. 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.
8. DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM PIPE CHAINAGES. CENTRELINE OF PITS AT TIPS TO BE OFFSET 1.00 METRE.
9. ALL 150mm TO 750mm DIA. TO BE R.C.(R.R.) AND 825mm DIA. AND GREATER TO BE R.C.(U). PIPES LAYED ON A CURVE TO BE R.R.J. ALL CONCRETE PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED.
10. 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.
11. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO A RELATIVE COMPACTION OF 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
  - i) BENEATH THE ROAD OR DRIVEWAY PAVEMENT TO THE UNDERSIDE OF THE PAVEMENT.
  - ii) ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE.
  - (TRENCHES TO BE BACKFILLED IN LAYERS NOT EXCEEDING 200mm LOOSE.)
12. 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.
13. BATTERS SHALL BE 1 IN 6 FOR FILL AND 1 IN 6 FOR CUT UNLESS OTHERWISE SHOWN.
14. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM SITE.
15. LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER, ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE.
16. 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.
17. 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.
18. 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.
19. 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.
20. NATURESTRIP AND AREAS OF CUT ARE TO BE TOPSOILED AND GRASSED TO THE SATISFACTION OF THE ENGINEER. MINIMUM DEPTH TO BE 100mm.
21. 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.
22. 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.
23. 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.
24. WATER AND GAS CONDUITS TO BE CONSTRUCTED ACROSS NATURE STRIPS AFTER ELECTRICAL CABLE WORK IS COMPLETED.
25. 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.
26. TELSTRANBN Co TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
27. 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.
28. 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.
29. PRAM CROSSINGS ARE TO BE CONSTRUCTED WHERE FOOTPATHS CONNECT TO THE BACK OF KERB & CHANNEL. REFER TO COUNCIL STD DWG MCC403.
30. STREET SIGNS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARDS.
31. 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.
32. 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
33. ALL ROADS TO BE CONSTRUCTED WITH B2 KERB & CHANNEL UNLESS OTHERWISE SHOWN. REFER VPA STD DWG EDMC301.
34. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A ROAD OPENING PERMIT FOR WORKS IN PREVIOUSLY CONSTRUCTED ROADWAYS.
35. 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.
36. PATTERNED CONCRETE TO BE DOWELLED INTO ADJACENT KERB AND CHANNEL AT 300mm CTS USING 450mm LONG S12 BARS. ONE END OF DOWEL TO BE SLEEVED OR GREASED.
37. 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%
38. 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.
39. CONCRETE TO HAVE A 28 DAY STRENGTH OF 25 MPa.
40. ALL SPLAYS ARE 3.00m X 3.00m UNLESS OTHERWISE SHOWN.
41. ALL LEVELS ARE TO THE AUSTRALIAN HEIGHT DATUM (A.H.D.)
42. 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.
43. 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.
44. 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.
45. PROVIDE 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. PALINGS TO BE ON THE RESERVE SIDE AND STAINED IN A DARK GREEN COLOUR ON THE SIDE FACING THE RESERVE TO THE SATISFACTION OF COUNCIL.
46. PROVIDE TEMPORARY SAFETY BARRIER FENCE (FARM FENCE AS PER MW STD. DWG. 7251/4/203) ALONG FULL EXTENT OF OUTFALL DRAINS. SAFETY FENCE TO REMAIN UNTIL PERMANENT UNDERGROUND DRAINAGE IS INSTALLED.

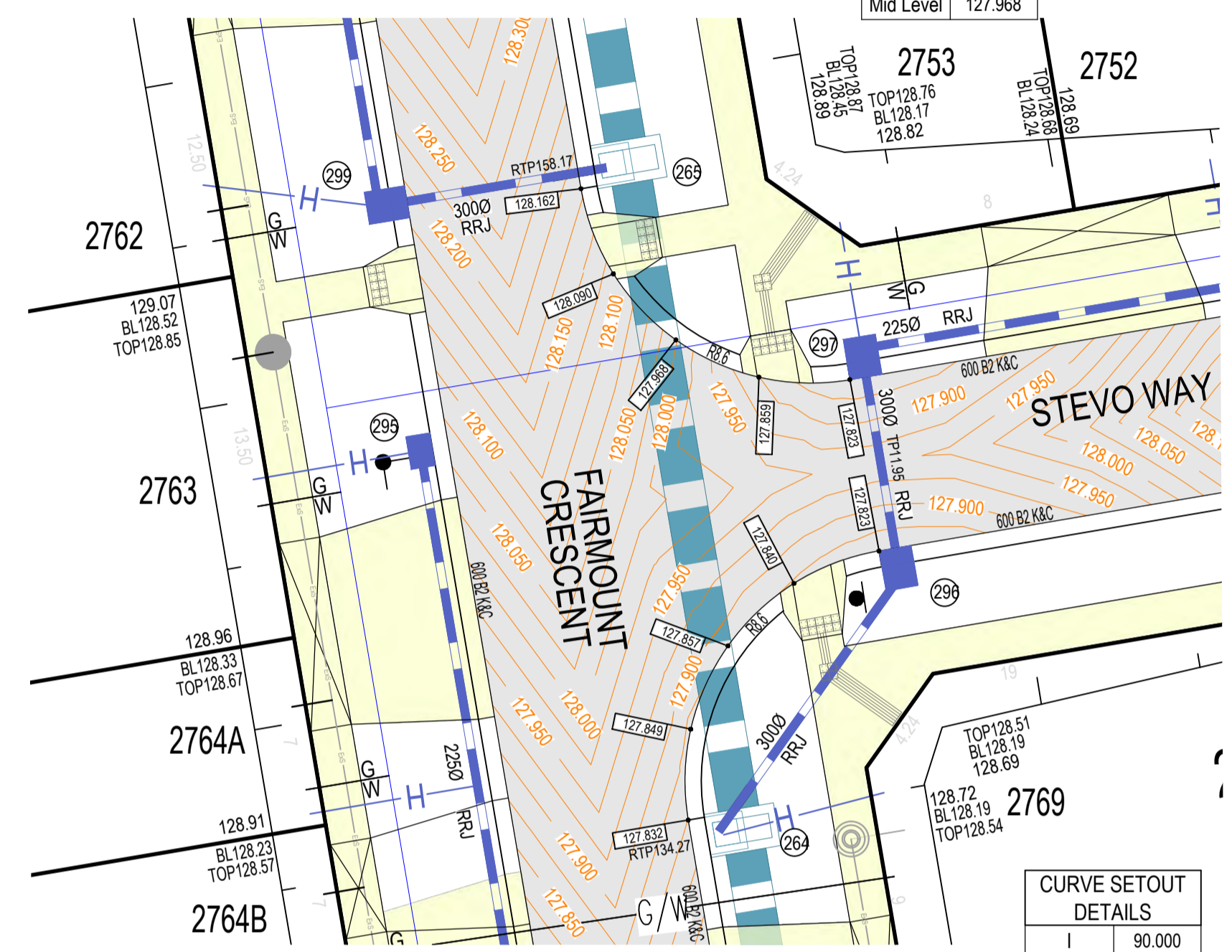
**PIT SCHEDULE NOTES**

1. 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.
2. PIT BASE TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROP ACROSS PIT IS LESS THAN 50mm.
3. ALL PITS LOCATED WITHIN THE ROAD RESERVE (INDICATED THUS \*) SHALL BE PROVIDED WITH TERRA FIRMA OR APPROVED EQUIVALENT PIT LID WITH A LOCKABLE COVER.

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									
	MELWAY REF.	354-C-12	<b>ASPIRE ESTATE STAGE 27A</b> <b>ROAD PAVEMENT DETAILS &amp; NOTES</b>		MUNICIPALITY	MELTON							
	SURVEY	BPD			REFERENCE	8226 E/27A							
	DESIGN	J.B											
	DRAWN	I.W											
VER	DATE	REMARKS	CHECKED	-	SCALE	AS SHOWN	DATUM	AHD	DATE	APRIL '21	SHEET	03 OF 12	P1

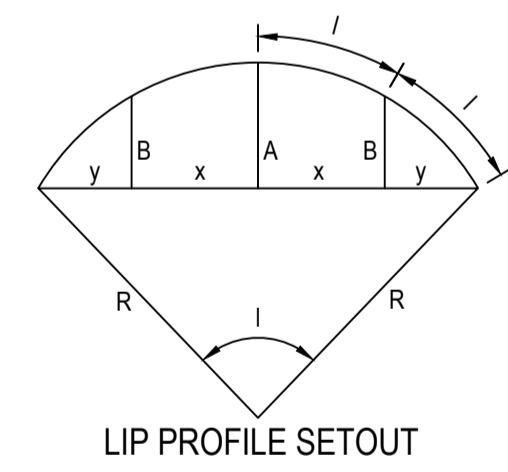


CURVE SETOUT DETAILS	
I	90.000
R	8.6
Arc	13.509
A	2.519
B	1.864
X	3.291
Y	2.790
I	3.377
Mid Level	127.968


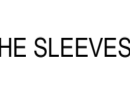


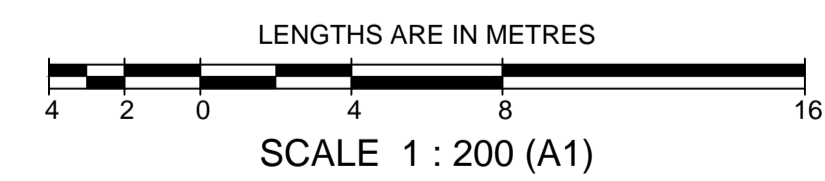
CURVE SETOUT DETAILS	
I	90.000
R	8.6
Arc	13.509
A	2.519
B	1.864
X	3.291
Y	2.790
I	3.377
Mid Level	127.857



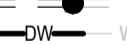



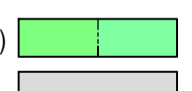
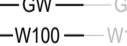
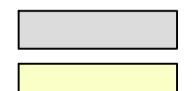




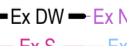










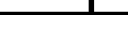

  
**APPROVED**  
**DETAILED ENGINEERING PLANS**  
 Nihal Jayasekara  
 ENGINEERING SERVICES  
 Date: 28/10/2021




**NOTES**

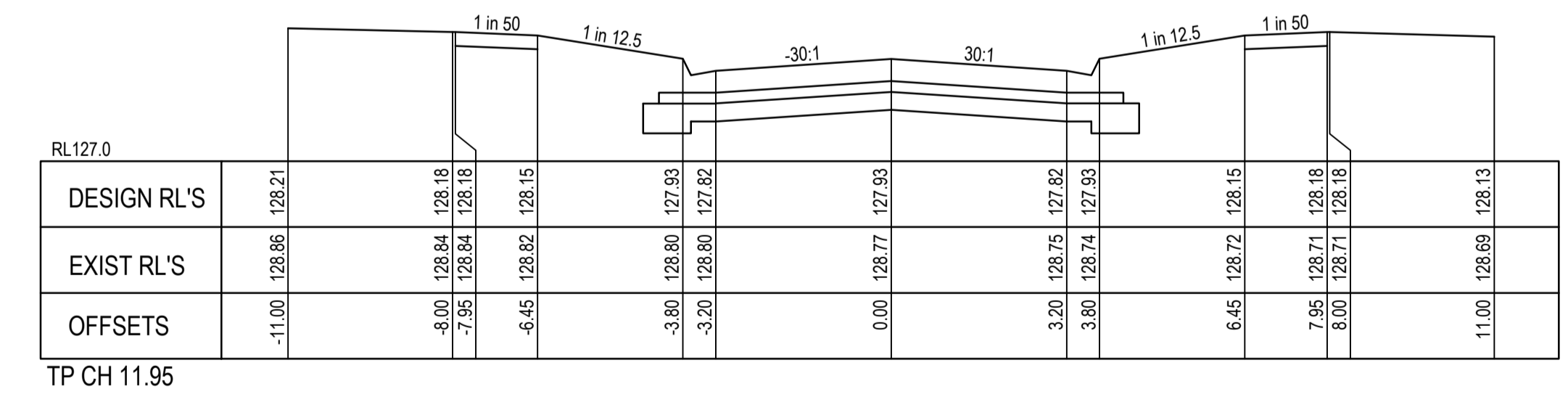
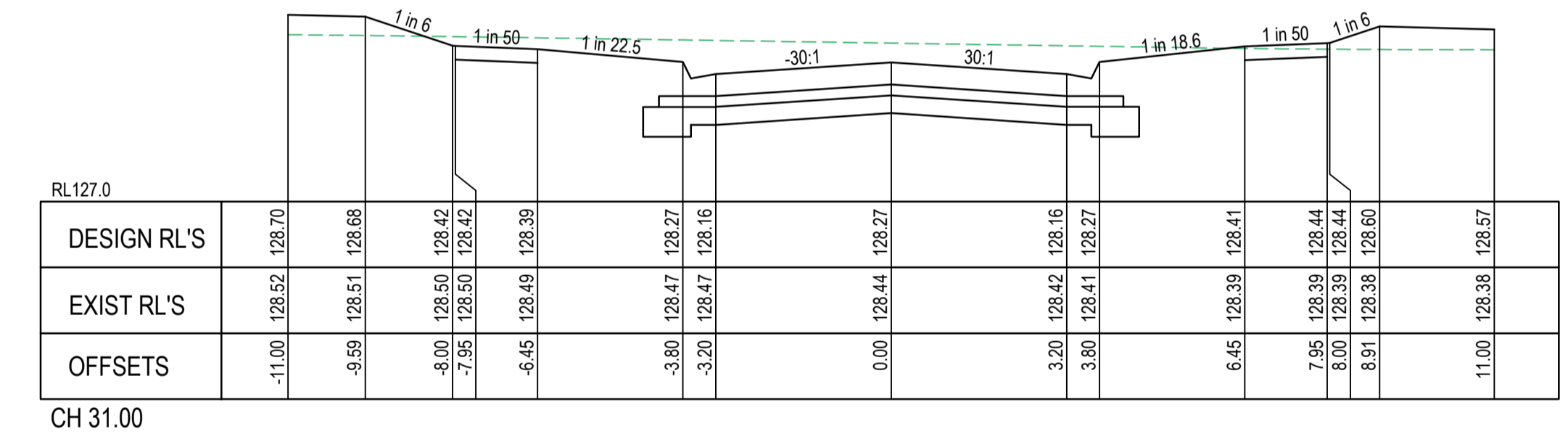
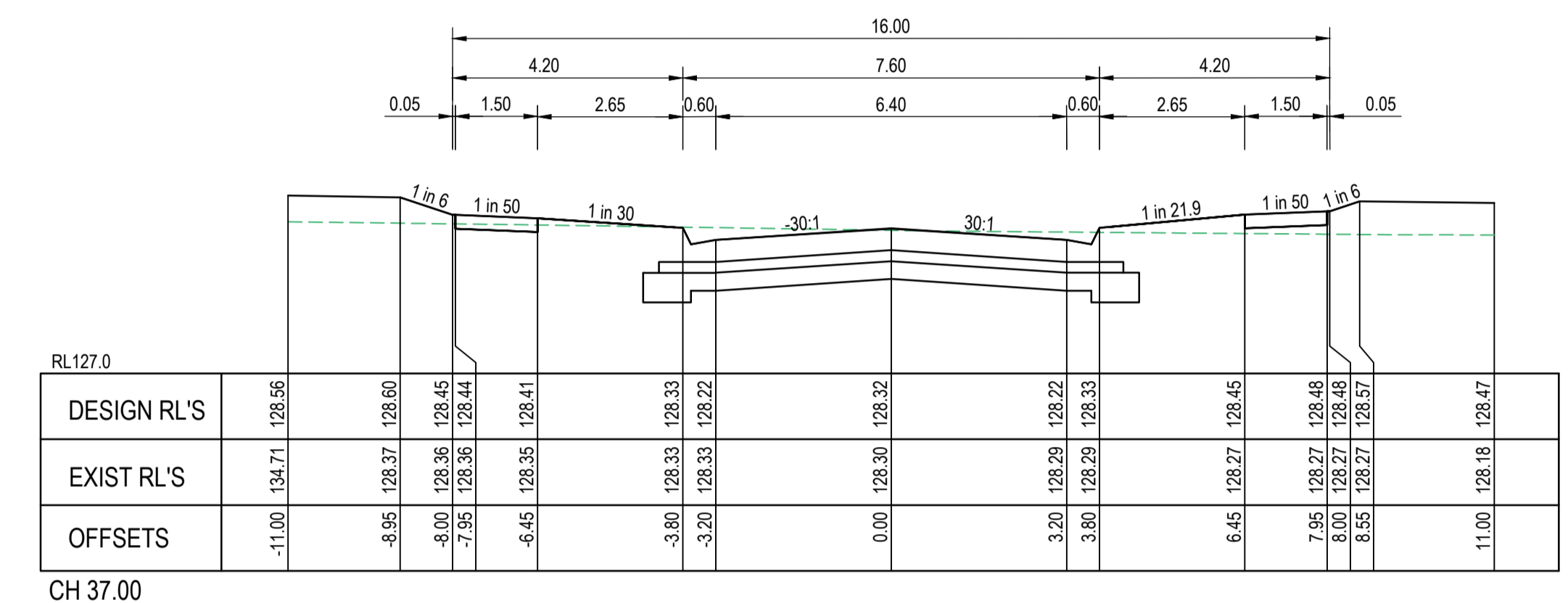
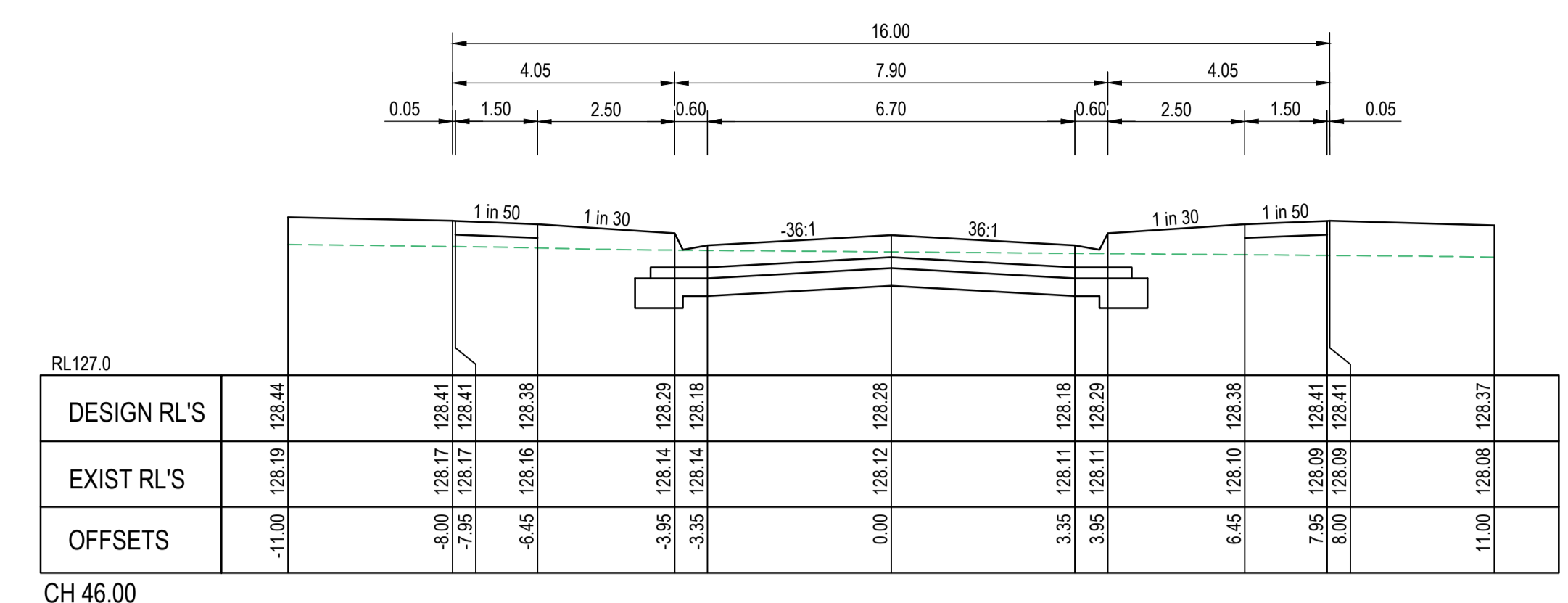
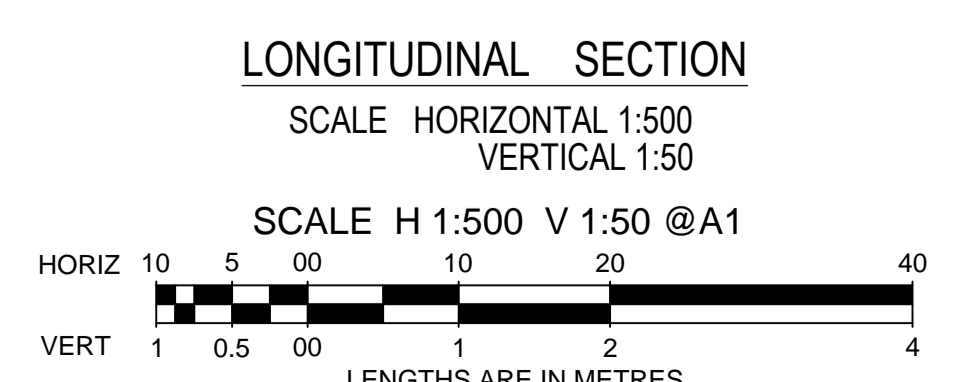
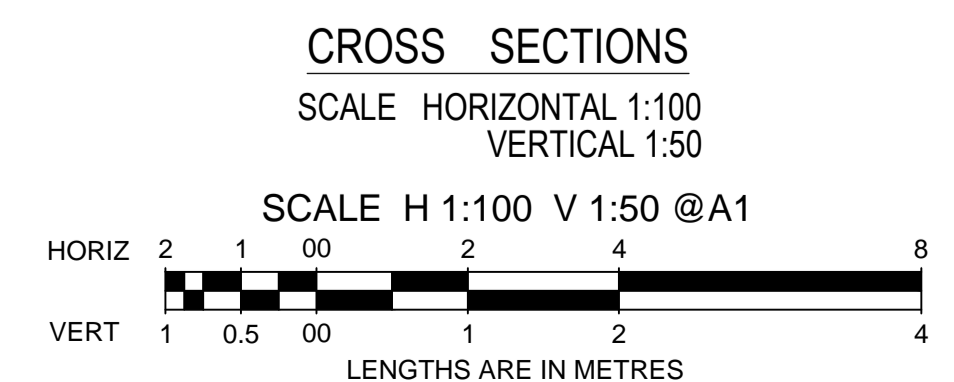
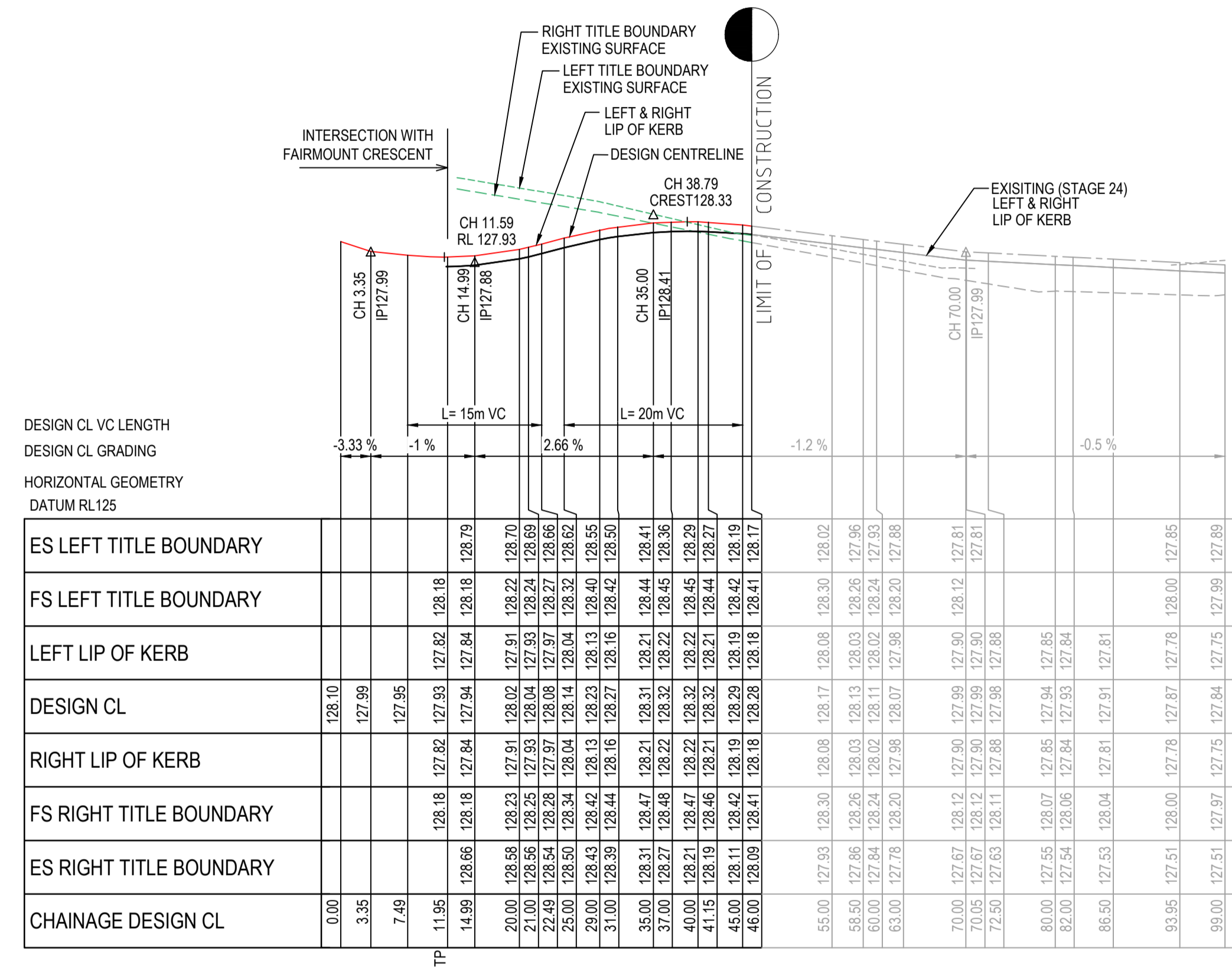
- a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.
- b) HAZARD / DIRECTIONAL TGSIS SHOWN THUS  /  AND FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGSIS SHALL CONFORM TO AS1428.4
- c) STREET SIGNS TO HAVE MINIMUM 2 WEDGES IN THE SLEEVES
- d) RETURN & ELBOW LIP OF KERB CHAINAGES PREFIXED WITH AN "R" (eg RTP35.83)



SYMBOL LEGEND			
Drains	 Prop	Ex/Natural/FS Level	+28.57
Main Drains	 Main	FS @ Building Line	+BL28.57
Sewer < 300Ø	 S	Top/Toe of Batter	+TOP28.57
Sewer ≥ 300Ø	 S	Top Ret. Wall Level	+TW28.57
Water (DW)	 DW	100yr Flood Level	+FL28.57
Water (NDW)	 NDW	Fill Proposed (<0.3m/≥0.3m)	
House Drain	 H	Cut Proposed	
Property Inlet	 PI	Asphalt Surface Prop	
Street Sign	 S	Concrete Surface Prop (Paths/Driveways/Slabs)	
PSM	 PSM	Tree To Be Removed	
Rock Ret Wall	 RW	Tree To Be Retained with Tree Protection Zone (TPZ)	
Sleeper Ret Wall	 RW		
Conduits 50mm	 GW		
Conduits 100mm	 W100		
Street Tree without/with Passive Irrigation (Refer Detail)	 T		
Ex Drains	 Ex DW		
Ex Water DW/NDW	 Ex NDW		
Ex Sewer/Gas	 Ex S		
Ex Elect/Comm	 Ex E		
Ex Optic Fibre	 Ex O		

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				
				MELWAY REF. 354-C-12	<b>ASPIRE ESTATE STAGE 27A INTERSECTION DETAIL PLANS</b>		MUNICIPALITY <b>MELTON</b>	
				SURVEY BPD			REFERENCE <b>8226 E/27A</b>	
				DESIGN J.B				
DRAWN I.W								
VER	DATE	REMARKS	CHECKED -	SCALE AS SHOWN	DATUM AHD	DATE APRIL '21	SHEET 04 OF 12	P1



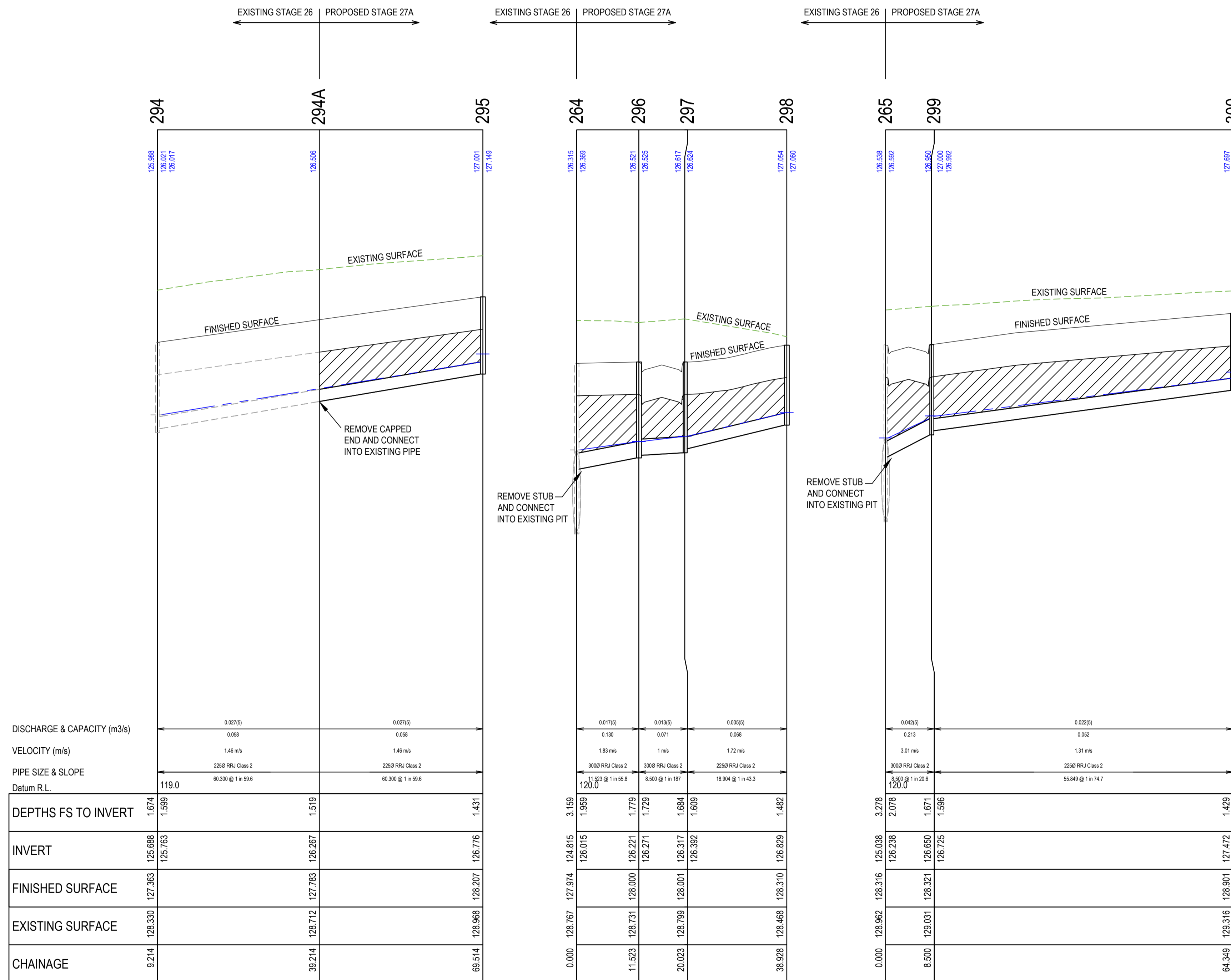


STEVO WAY

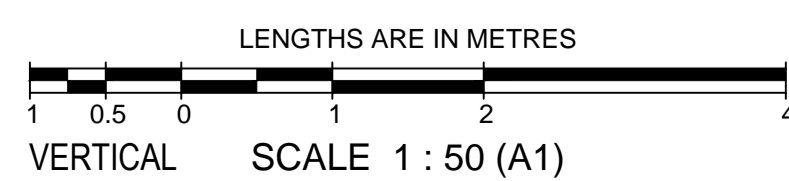
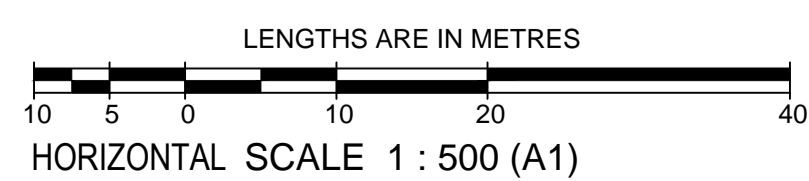
AMENDMENTS		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF.	354-C-12	ASPIRE ESTATE STAGE 27A STEVO WAY		MUNICIPALITY MELTON	
SURVEY	BPD			REFERENCE 8226 E/27A	
DESIGN	J.B			SHEET 06 OF 12 P1	
DRAWN	I.W	CHECKED	-	SCALE	AS SHOWN
DATE		REMARKS		DATUM	AHD
				DATE	APRIL '21



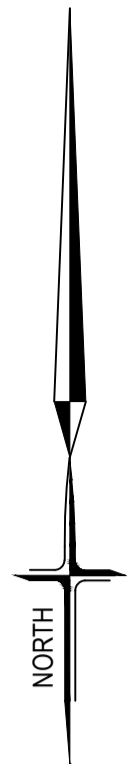
PIT No.	DESCRIPTION	INTERNAL DIMENSIONS		INLET		OUTLET		TOP OF PIT	DEPTH OF PIT	REMARKS
		L	W	DIA	LEVEL	DIA	LEVEL			
294A	End of Pipe (Existing)					225	126.267	127.783	1.519	Remove Capped End and Connect into Existing Pipe
295	Junction Pit	600	900			225	126.776	128.207	1.431	EDCM605 with Class B Cover. E 298809.790, N 5825132.804/ E 298809.638, N 5825133.690
296	Channel Grating Pit	600	900	300	126.271	300	126.221	128	1.779	EDCM601-605 with Class B Cover.
297	Channel Grating Pit	600	900	225	126.392	300	126.317	128.001	1.684	EDCM601-605 with Class B Cover.
298	Junction Pit	600	900			225	126.829	128.31	1.482	EDCM605 with Class B Cover. E 298845.088, N 5825139.100/ E 298844.201, N 5825138.948
299	Channel Grating Pit	600	900	225	126.725	300	126.65	128.321	1.671	EDCM601-605 with Class B Cover. E 298808.250, N 5825141.866/ E 298808.401, N 5825140.980
300	Junction Pit	600	900			225	127.472	128.901	1.429	EDCM605 with Class B Cover. E 298798.917, N 5825196.786/ E 298799.069, N 5825195.899



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






AMENDMENTS	VER	DATE	REMARKS	 land surveyors civil engineers	<b>ASPIRE ESTATE</b> <b>STAGE 27A</b> <b>DRAINAGE LONGITUDINAL SECTIONS</b> <b>&amp; DRAINAGE PIT SCHEDULE</b>	MUNICIPALITY <b>MELTON</b> REFERENCE <b>8226 E/27A</b>	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 APRIL '21	SHEET 07 OF 12	P1

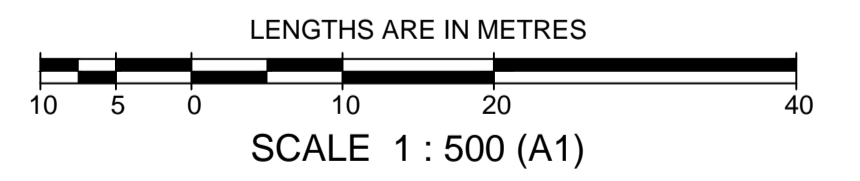



PLAN  
SCALE 1:500

  
**APPROVED**  
**DETAILED ENGINEERING PLANS**  
 Nihal Jayasekara  
 ENGINEERING SERVICES  
 Date: 28/10/2021

SIGNAGE LEGEND

-  A STREET SIGNS (G5-1)
-  B "GIVEWAY" SIGN (R1-2)
-  C "BI-DIRECTIONAL HAZARD MARKER" SIGN (R1-3)





AMENDMENTS			 <b>breese pitt dixon pty. ltd.</b> land surveyors      civil engineers	<b>ASPIRE ESTATE</b> <b>STAGE 27A</b> <b>SIGNAGE AND LINEMARKING PLAN</b>		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310			
		MELWAY REF. 354-C-12						MUNICIPALITY	MELTON
		SURVEY BPD						REFERENCE	8226 E/27A
		DESIGN J.B							
		DRAWN I.W							
		CHECKED -	SCALE AS SHOWN	DATUM AHD	DATE APRIL '21	SHEET 08 OF 12	P1		






**LEGEND**

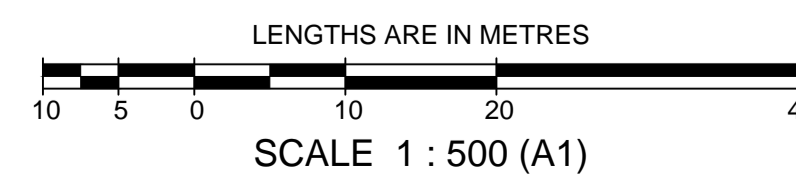
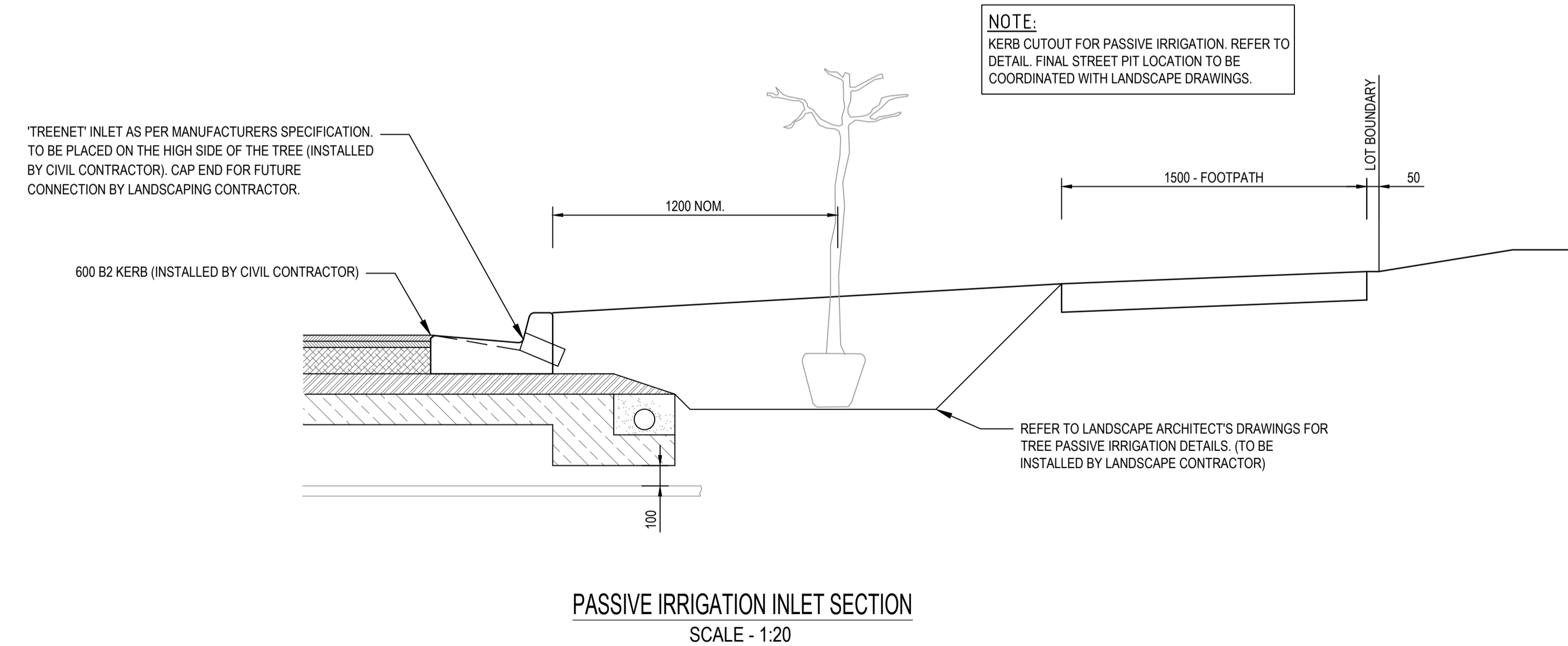
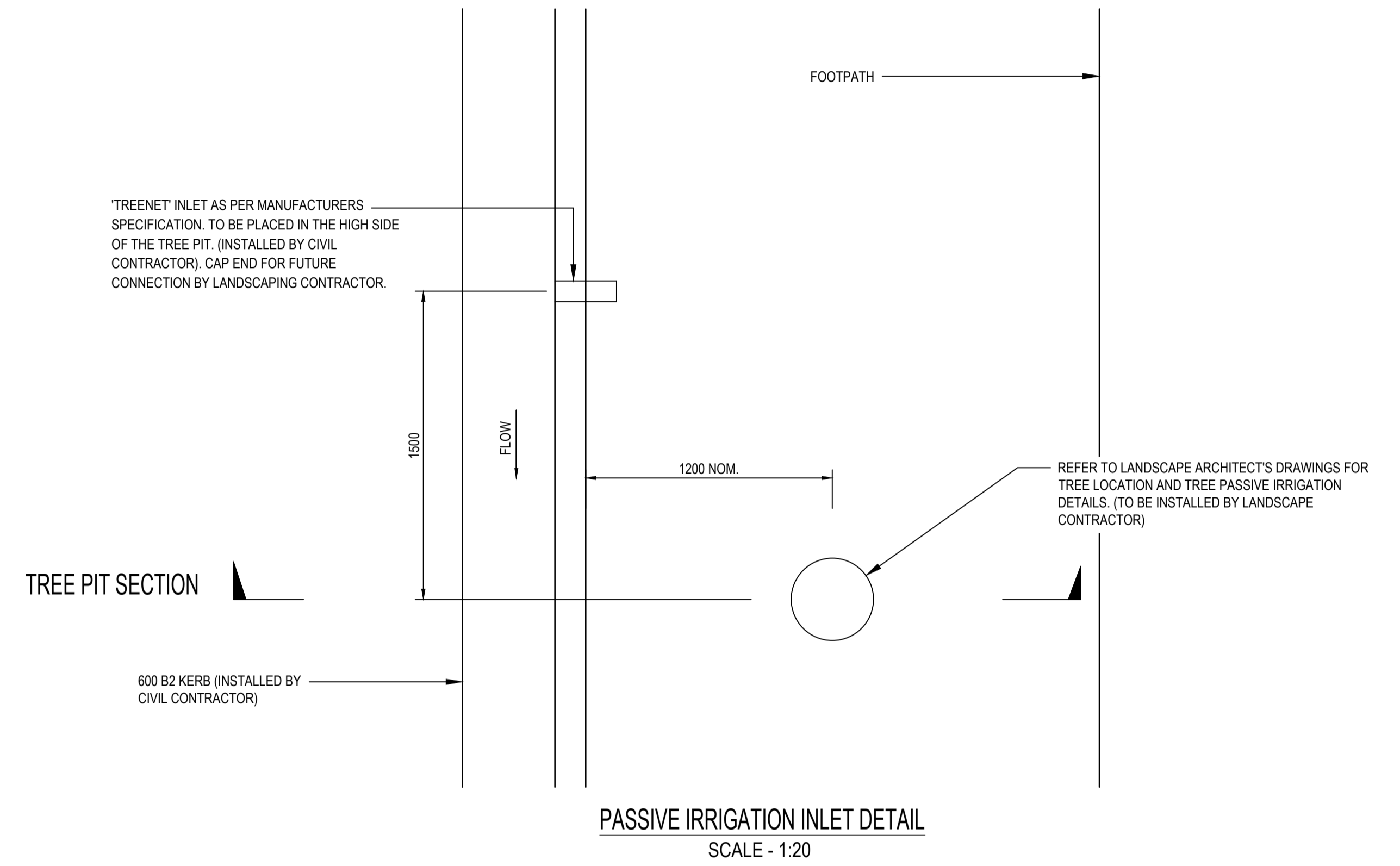
-  PROPOSED PASSIVE IRRIGATION TREE PITS
-  EXISTING PASSIVE IRRIGATION TREE PITS


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

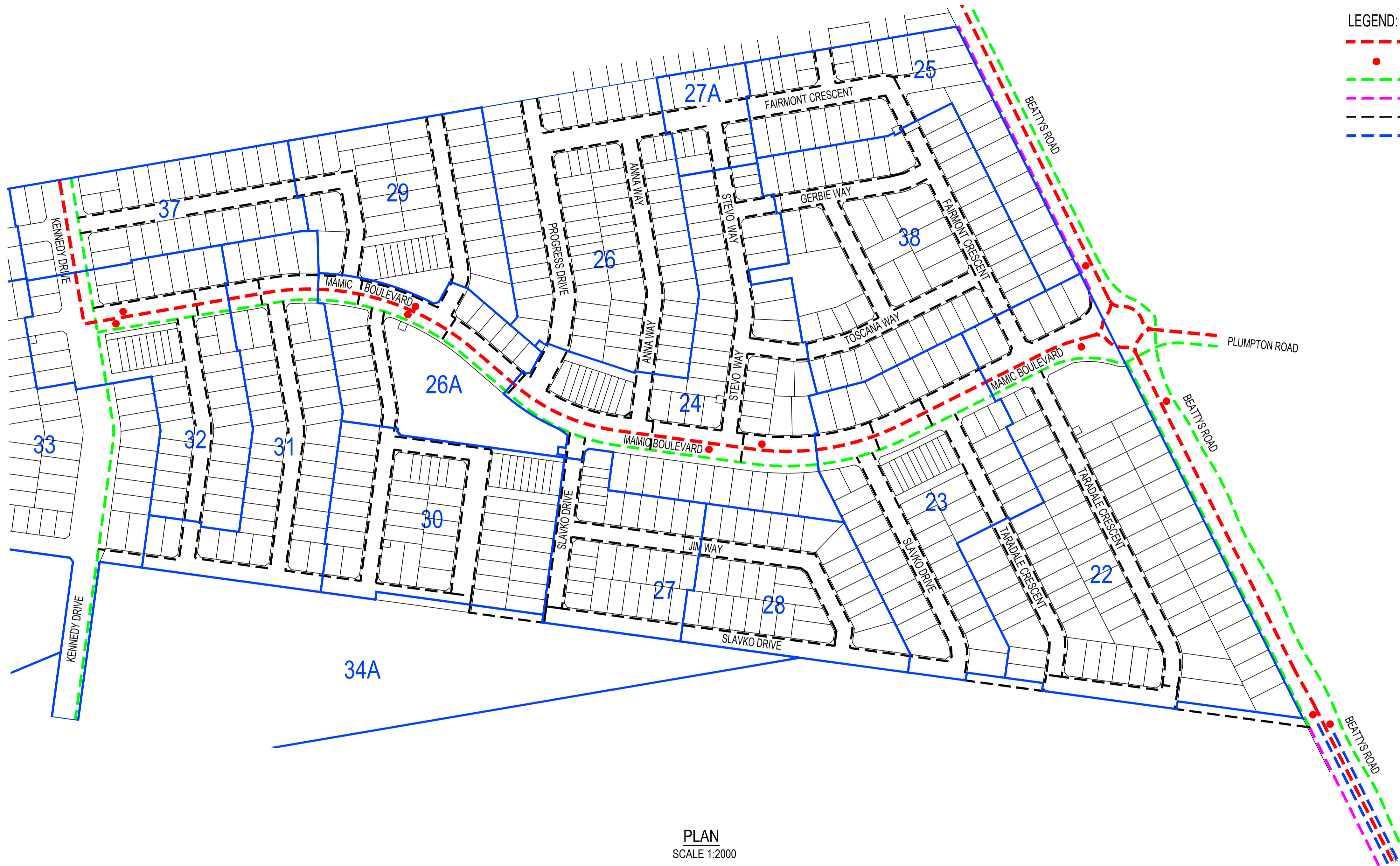
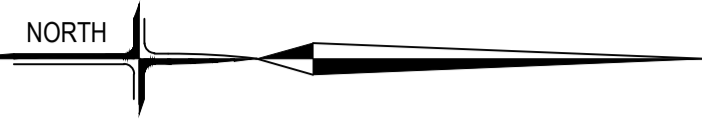
  
**APPROVED**  
**DETAILED ENGINEERING PLANS**  
 Nihal Jayasekara  
 ENGINEERING SERVICES  
 Date: 28/10/2021



**PLAN**  
SCALE 1:500




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				
				MELWAY REF. 354-C-12	<b>ASPIRE ESTATE</b> <b>STAGE 27A</b> <b>PASSIVE IRRIGATION PLAN</b>		MUNICIPALITY MELTON	
				SURVEY BPD			REFERENCE 8226 E/27A	
				DESIGN J.B				
VER	DATE	REMARKS	CHECKED -	SCALE AS SHOWN	DATUM AHD	DATE APRIL '21	SHEET 09 OF 12	P1

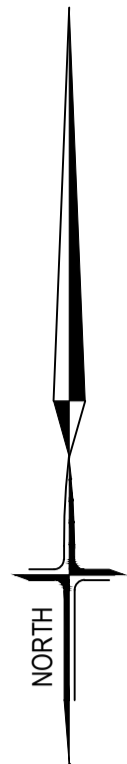


- LEGEND:**
- - - POTENTIAL BUS ROUTE (AS PER PSP)
  - TV BUS STOP LOCATION
  - - - 3.0m WIDE SHARED PATH
  - - - 2.0m WIDE SHARED PATH
  - - - 1.5m WIDE FOOTPATH
  - - - ON ROAD BIKE LANE (BOTH SIDES) AS PER PSP

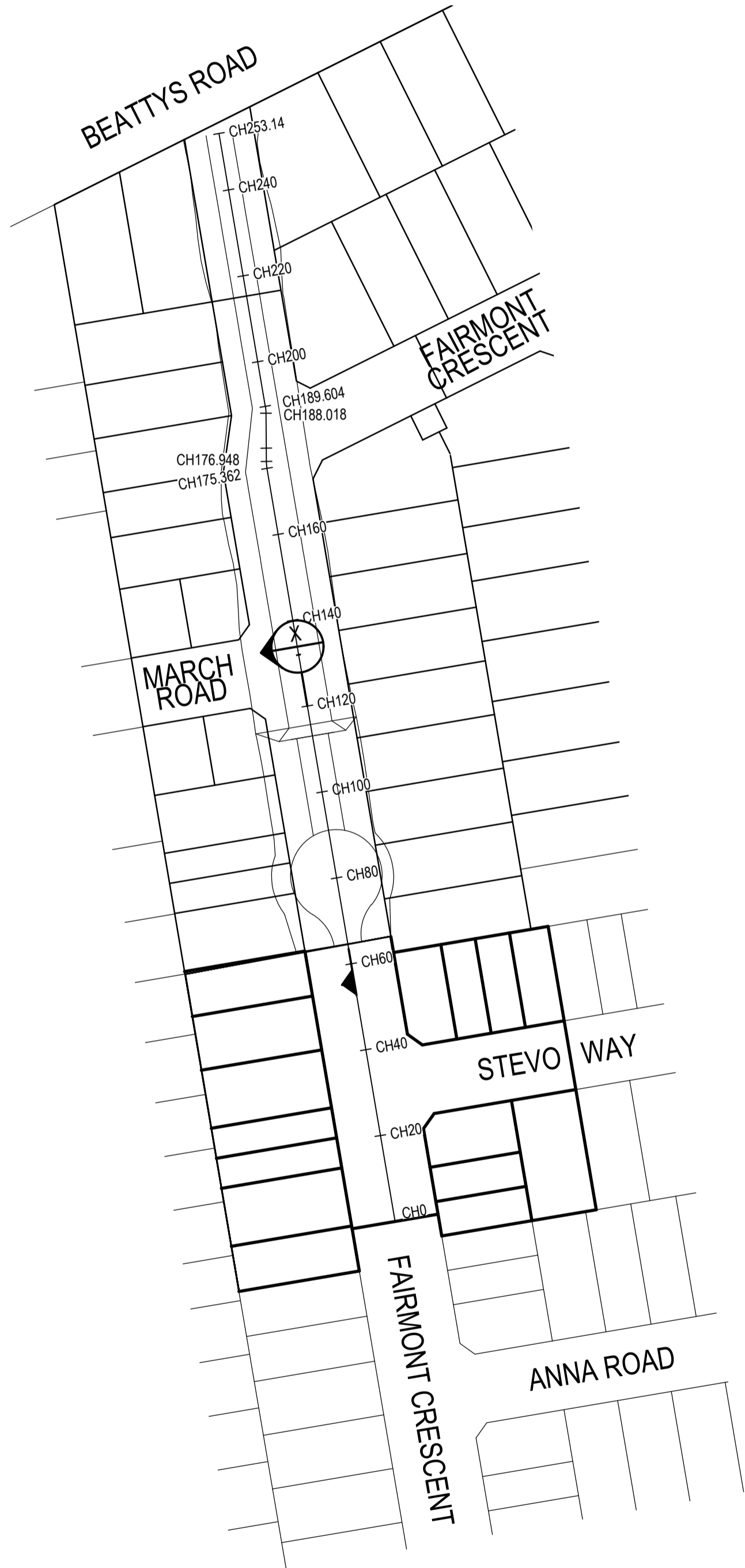
  
**APPROVED**  
**DETAILED ENGINEERING PLANS**  
 Nihal Jayasekara  
 ENGINEERING SERVICES  
 Date: 28/10/2021




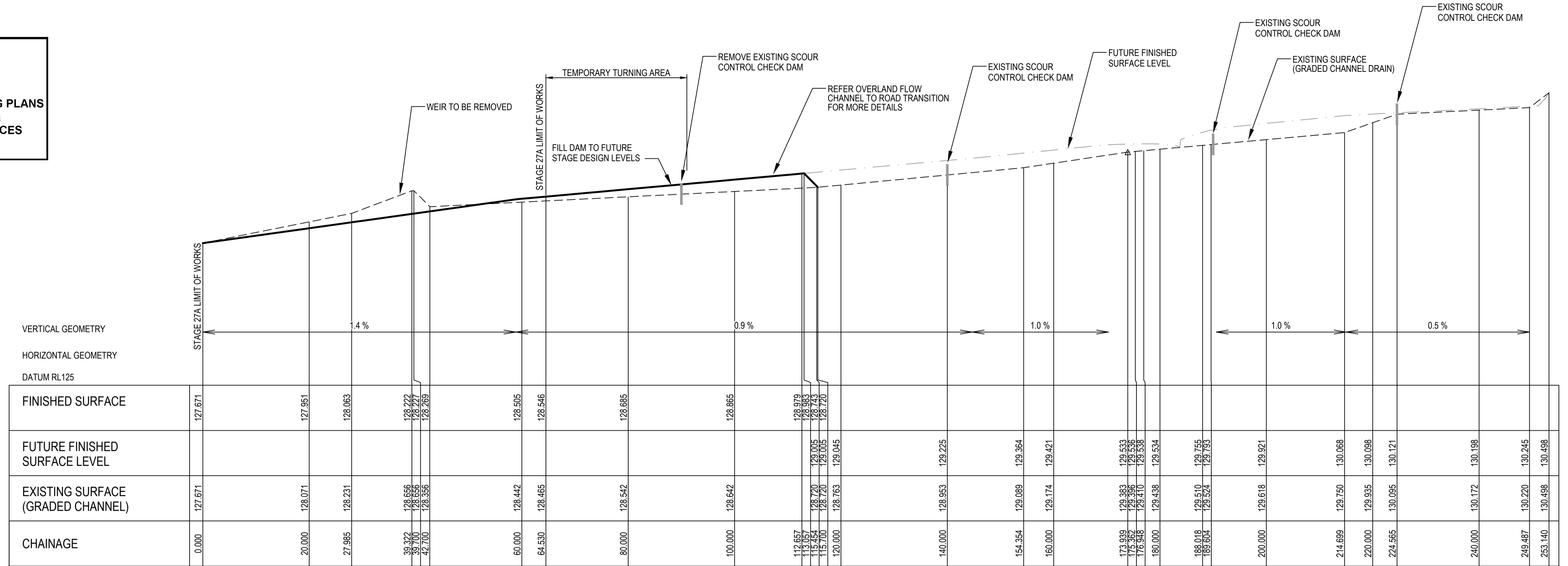
AMENDMENTS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>														 <b>breese pitt dixon pty. ltd.</b> land surveyors      civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 354-C-12		<b>ASPIRE ESTATE          STAGE 27A          MOBILITY PLAN</b>		MUNICIPALITY <b>MELTON</b>													
SURVEY BPD				REFERENCE <b>8226 E/27A</b>													
DESIGN J.B. DRAWN I.W.																	
VER	DATE	REMARKS	CHECKED -	SCALE AS SHOWN	DATUM AHD	DATE APRIL '21	SHEET 10 OF 12	P1									



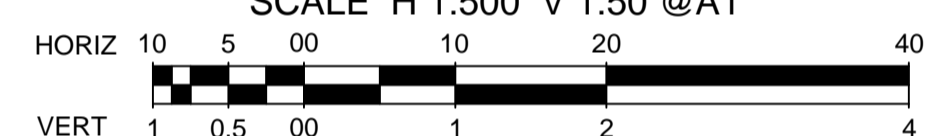
  
**APPROVED**  
**DETAILED ENGINEERING PLANS**  
 Nihal Jayasekara  
 ENGINEERING SERVICES  
 Date: 28/10/2021

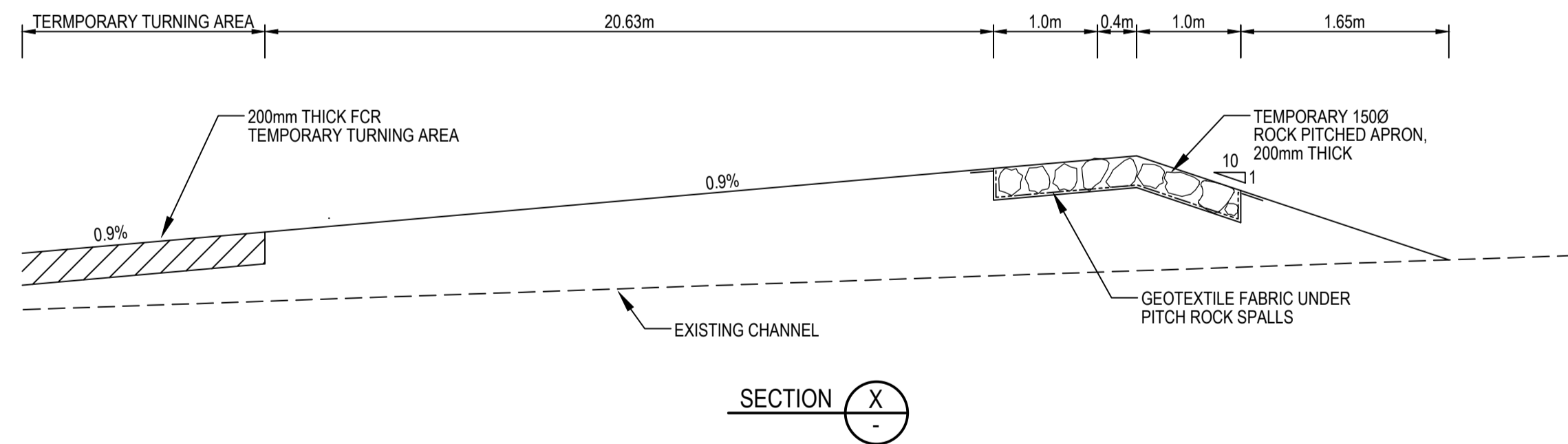


**PLAN**  
 SCALE 1:1000  
 LENGTHS ARE IN METRES  
  
 SCALE 1 : 1000 (A1)



**GRADED CHANNEL DRAIN LONGITUDINAL SECTION**


SCALE HORIZONTAL 1:500  
 VERTICAL 1:50  
 SCALE H 1:500 V 1:50 @A1  
  
 HORIZ 10 5 00 10 20 40  
 VERT 1 0.5 00 1 2 4  
 LENGTHS ARE IN METRES



**OVERLAND FLOW CHANNEL TO ROAD TRANSITION**  
 NOT TO SCALE

SYMBOL LEGEND	
Drains	Prop Prev Stage
Main Drains	Ex/Natural/FS Level
Sewer < 300Ø	FS @ Building Line
Sewer ≥ 300Ø	Top/Toe of Batter
Water (DW)	Top Ret. Wall Level
Water (NDW)	100yr Flood Level
House Drain	Property Inlet
Property Inlet	Street Sign
PSM	Rock Ret Wall
Rock Ret Wall	Sleeper Ret Wall
Sleeper Ret Wall	Conduits 50mm
Conduits 50mm	Conduits 100mm
Conduits 100mm	Street Tree without/with Passive Irrigation (Refer Detail)
Street Tree without/with Passive Irrigation (Refer Detail)	Ex Drains
Ex Drains	Ex Water/DW/NDW
Ex Water/DW/NDW	Ex Sewer/Gas
Ex Sewer/Gas	Ex Elect/Comm
Ex Elect/Comm	Ex Optic Fibre
Ex Optic Fibre	Ex/Natural/FS Level
Ex/Natural/FS Level	FS @ Building Line
FS @ Building Line	Top/Toe of Batter
Top/Toe of Batter	Top Ret. Wall Level
Top Ret. Wall Level	100yr Flood Level
100yr Flood Level	Property Inlet
Property Inlet	Street Sign
Street Sign	Rock Ret Wall
Rock Ret Wall	Sleeper Ret Wall
Sleeper Ret Wall	Conduits 50mm
Conduits 50mm	Conduits 100mm
Conduits 100mm	Street Tree without/with Passive Irrigation (Refer Detail)
Street Tree without/with Passive Irrigation (Refer Detail)	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)	

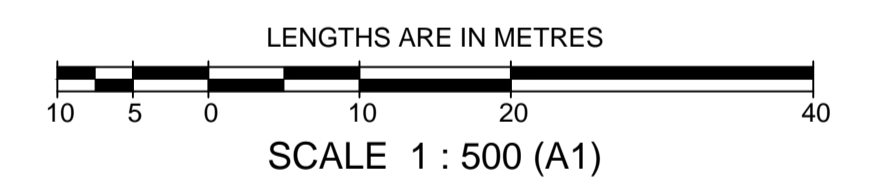
**PRELIMINARY**

AMENDMENTS	MELWAY REF.	354-C-12	 <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	
	SURVEY	BPD		<b>ASPIRE ESTATE</b> <b>STAGE 27A</b> <b>DRAINAGE CHANNEL DETAILS</b>	MUNICIPALITY <b>MELTON</b>
	DESIGN	J.B			REFERENCE <b>8226 E/27A</b>
	DRAWN	I.W			
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN DATUM AHD DATE APRIL '21 SHEET 11 OF 12 P1	



PLAN  
SCALE 1:500

**MELTON**  
APPROVED  
DETAILED ENGINEERING PLANS  
Nihal Jayasekara  
ENGINEERING SERVICES  
Date: 28/10/2021



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

AMENDMENTS	VER	DATE	REMARKS	 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						
	SURVEY	BPD						
	DESIGN	J.B						
				<b>ASPIRE ESTATE STAGE 27A EARTHWORKS PLAN</b>	MUNICIPALITY <b>MELTON</b> REFERENCE <b>8226 E/27A</b>			
DRAWN	I.W							
CHECKED	-			SCALE AS SHOWN	DATUM AHD	DATE APRIL '21	SHEET 12 OF 12	P1