

STANDARD NOTES

1. ALL WORKS IN THIS CONTRACT ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARD DRAWINGS AND SPECIFICATIONS OF THE RELEVANT RESPONSIBLE AUTHORITIES. ANY DISPUTE THAT ARISES AT ANY TIME UNTIL THE RESPONSIBLE AUTHORITIES ACCEPT THE WORKS FOR FUTURE CARE AND MAINTENANCE, THE STANDARD DRAWING AND SPECIFICATION WILL TAKE PRECEDENCE OVER THE CONSTRUCTION PLAN.
2. ALL ROADWORKS SIGNAGE IS TO BE IN ACCORDANCE WITH VICROADS WORKSITE TRAFFIC MANAGEMENT CODE OF PRACTICE INCORPORATING AS 1742.3.

SITE MANAGEMENT

3. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE APPROVED CONSTRUCTION MANAGEMENT PLAN.
4. ALL TREES, SHRUBS ETC ARE TO BE RETAINED UNLESS OTHERWISE INDICATED.
5. DURING THE CONSTRUCTION AND MAINTENANCE PERIOD SILT FENCES ARE TO BE PLACED DOWNSTREAM OF ALL EXPOSED AREAS, AND SILT BARRIERS ARE TO BE PLACED UPSTREAM OF ALL PITS. THE SILT FENCES AND SILT BARRIERS ARE TO BE CHECKED AND MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD.

6. ALL AREAS OF THE SUBDIVISION EXPOSED OF VEGETATION, INCLUDING NATURESTRIPS, LOTS AND RESERVE ARE TO BE FULLY GRASSED BY HYDROMULCHING, WATERING AND MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD.

GENERAL

7. THE CONTRACTOR SHALL:
- a) GIVE 5 DAYS NOTICE IN WRITING TO COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORKS.
- b) NOTIFY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE 24 HOURS PRIOR TO WORKING ON ANY WEEKEND.
- c) BE FULLY AWARE OF ALL SITE CONDITIONS PRIOR TO TENDERING.
- d) BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORKS AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SERVICES.
- e) BE RESPONSIBLE FOR THE INSTALLATION OF ALL SERVICES REQUIRED FOR THE PROJECT.
- f) ENSURE THAT ALL SERVICES ARE INSTALLED TO THE SPECIFIED OFFSETS AND MEETS MINIMUM COVER REQUIREMENTS. ALL SURFACE FIXTURES, PITS, VALVES, FIREPLUGS, ETC. SHALL BE INSTALLED A MINIMUM OF 6.0m FROM ANY SIDE BOUNDARY IN THE ROAD RESERVE AND SHALL MATCH THE REQUIRED FINISHED SURFACE LEVEL. THIS APPLIES TO ALL SERVICES REQUIRED FOR THE PROJECT IRRESPECTIVE IF THEY ARE INSTALLED BY THE CONTRACTOR OR OTHERWISE.
- g) COMPLY WITH THE REQUIREMENTS OF THE MINES ACT 1958 AND RELEVANT REGULATIONS INCLUDING NOTIFICATION IN WRITING (CLAUSE 395) TO THE CHIEF MINING INSPECTOR OF THE INTENTION TO COMMENCE EXCAVATION OPERATIONS WHERE ANY TRENCH IS 15m OR MORE IN DEPTH.
- h) GIVE 24 HOURS NOTICE TO COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO BACKFILLING OF ANY PIPE TRENCHES OR LAYING OF ANY PAVEMENT OR CONCRETE WORKS SO THAT THE WORKS CAN BE CHECKED AND APPROVED.
- i) COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY (CONFINED SPACES) REGULATIONS AND CODE OF PRACTICE FOR CONFINED SPACES.
- j) BE RESPONSIBLE FOR THE COMPACTION AND/OR ANY OTHER REQUIRED TESTING OF THE PAVEMENT MATERIAL BY AN APPROVED GEOTECHNICAL CONSULTANT AS AND WHEN DIRECTED BY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
8. ANY WORKS WITHIN ROADWAYS SHALL SATISFY COUNCIL'S "REQUIREMENTS FOR OCCUPANCY OF ROAD RESERVE". CONTACT COGG TRAFFIC MANAGEMENT OFFICER ON TELEPHONE (03) 52724384. FOR FURTHER SPECIFIC DETAILS RELATING TO THIS PROJECT A COPY OF THE TRAFFIC MANAGEMENT PLAN IS TO BE FORWARDED TO THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO WORKS COMMENCING.
9. ALL REASONABLE CARE SHALL BE TAKEN BY THE CONTRACTOR TO PRESERVE THE SURVEY PEGS. ANY REINSTATEMENT OF BOUNDARY PEGS FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. BENCHMARK VALUES ARE VALID FOR 6 MONTHS FROM THE ISSUED DATE OF THE SURVEY AND ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORKS AND ANY DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY.
10. ALL DIMENSIONS ARE IN METRES AND LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.)
11. ALL SEWER MANHOLES LOCATED UNDER NEW FOOTPATH TO HAVE OFFSET COVER ROTATED AND LEVELS ADJUSTED SO THAT THE COVERS ARE ENTIRELY LOCATED WITHIN THE FOOTPATH WITH APPROPRIATELY POSITIONED JOINTS IN PATH AND FLUSH WITH SURFACE.

ROADWORKS

12. SUBSOIL DRAINS ARE TO BE CONSTRUCTED BEHIND THE KERB AND CHANNEL OR AS DIRECTED BY THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
13. WHERE DRAINAGE LINES EXIST BEHIND THE KERB AND CHANNEL SUBSOIL DRAINAGE IS NOT REQUIRED HOWEVER A 1m LENGTH OF SUBSOIL DRAIN INCLUDING FILTER SOCK IS REQUIRED BOTH SIDES OF DRAINAGE PITS.
14. ALL FOOTPATHS ARE TO BE A MINIMUM OF 125mm THICK WITH SL72 REINFORCEMENT AND BEDDED ON A MINIMUM OF 50MM COMPACTED CLASS 3 FCR WITH THE BEDDING TO EXTEND 100mm BEYOND THE EDGES OF THE PROPOSED FOOTPATH PRIOR TO THE PLACEMENT OF THE TIMBERS AND BOARDS. CONTRACTION OR EXPANSION JOINTS ARE TO BE CONSTRUCTED BETWEEN 10 TO 15 METER INTERVALS
15. WHERE FILLING IS REQUIRED UNDER THE FOOTPATH BEDDING MATERIAL THEN CLASS 4 FCR IS TO BE USED UNLESS OTHERWISE APPROVED BY THE COGG SUBDIVISIONS ENGINEER.
16. CONCRETE FOR KERB AND CHANNEL USED IN EXTRUSION MACHINES SHALL HAVE A MINIMUM CEMENT CONTENT OF 320 KG/M3.
17. CONCRETE FOR STORMWATER PITS AND ANY OTHER STORMWATER RELATED STRUCTURE IS TO HAVE A MINIMUM STRENGTH OF 32 MPA AT 28 DAYS.
18. CONCRETE FOR ALL OTHER APPLICATIONS IS TO HAVE A MINIMUM STRENGTH OF 25 MPA AT 28 DAYS.
19. TO ALLOW FOR A CONTINUOUS CONCRETE KERB AND CHANNEL POUR THE STORMWATER PIT CONCRETE SURROUND IS TO BE IN PLACE PRIOR TO THE POUR COMMENCING. IF THE PIT SURROUNDS ARE NOT IN PLACE THEN THE INITIAL KERB AND CHANNEL POUR IS TO STOP ONE METRE EITHER SIDE OF EVERY PIT.
20. PRIOR TO ANY FILLING ON LOTS ALL TOPSOIL IS TO BE REMOVED AND STOCKPILED. THE FILL MUST BE APPROVED AND CONSIST OF 150mm COMPACTED LAYERS TO A DRY DENSITY OF 95% STANDARD COMPACTION IN ACCORDANCE WITH AS1289. THE TOPSOIL IS THEN TO BE UNIFORMLY REPLACED TO A COMPACTED DEPTH OF 100mm. COMPACTION TESTING WILL BE REQUIRED AT THE DISCRETION OF THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
21. ALLOTMENTS SHALL BE GRADED TO AN EVEN SURFACE AT THE COMPLETION OF ALL WORKS AND SHALL HAVE A MINIMUM GRADE OF 1 IN 200 (IDM) TO THEIR NOMINATED DRAINAGE CONNECTION POINTS. ALL SURPLUS SPOIL, BOXTHORN, FENCING, CONSTRUCTION WASTE AND OTHER RUBBISH SHALL BE REMOVED FROM SITE AT THE COMPLETION OF WORKS.
22. BATTER SLOPES ON LOTS SHALL BE A MAXIMUM OF 1 IN 6 FOR FILL AND 1 IN 3 FOR CUT UNLESS OTHERWISE SHOWN.
23. ROUNDED-TOPPED WHITE CYPRUS HARVESTED FROM SUSTAINABLE FOREST BOLLARDS (0.6m HIGH) OR AS APPROVED BY COUNCIL/PARKS/RECREATION AND OPEN SPACE/ENVIRONMENT DEPARTMENTS ARE TO BE PLACED ACROSS THE RESERVE FRONTAGE AT 15M CENTRES, REFER TO COUNCIL STANDARD DRAWING COGG 701. A DEMOUNTABLE SECTION FOR VEHICLE ACCESS TO COUNCIL STANDARDS, REFER STANDARD DRAWING COGG702 & COGG703.
24. STREET SIGNS ARE TO BE LOCATED AS INDICATED ON THE PLANS AND INSTALLED IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2. MOUNTING HEIGHT IS TO BE TO THE UNDERSIDE OF THE SIGN AND IS TO BE A MINIMUM OF 2.1m AND MAXIMUM OF 3.0m.
25. 'NO THROUGH ROAD' SIGN IS TO BE INSTALLED BELOW THE STREET SIGN WHERE APPLICABLE.
26. ALL REINFORCEMENT USED IN CONCRETE WORKS FOR FOOTPATH DRIVEWAYS AND ROADS IS TO BE ADEQUATELY SUPPORTED BY APPROPRIATE SIZED BAR CHAIRS PRIOR TO THE POURING/PLACEMENT OF CONCRETE.
27. AT THE TERMINATION OF STAGED PAVEMENT CONSTRUCTION, A CONCRETE EDGE STRIP 200mm X 200mm AND SUBSOIL DRAIN IS TO BE INSTALLED ACROSS THE WIDTH OF THE PAVEMENT AND A 'NO THROUGH ROAD' AND CHEVRON MARKER SIGNS ARE TO BE INSTALLED ACROSS THE FULL WIDTH OF THE ROAD RESERVE. APPROPRIATE RETAINING WALLS/FENCING IS TO BE PROVIDED AS DIRECTED BY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
28. WHERE LINE MARKING NEEDS TO BE REMOVED, THESE LINES ARE TO BE PERMANENTLY REMOVED EITHER BY GRINDING THE OLD LINES OFF OR BY PLACING A SEAL AND GRIT TREATMENT (USING THE 'FLOCON' SYSTEM) OVER THE UNWANTED LINES.
29. LOT NUMBERS SHALL BE STENCILED IN 50mm HIGH FIGURES WITH WHITE PAINT ON THE FACE OF THE KERB AND CHANNEL.
30. CIVIL CONTRACTOR TO CONTACT SUPERINTENDENT MINIMUM OF 7 DAYS PRIOR TO POURING ANY KERB & CHANNEL TO ENSURE THAT DRIVEWAY LOCATIONS HAVE NOT ALTERED.

DRAINAGE

1. PIPE DRAINAGE WITHIN ROADWAYS TO BE REINFORCED CONCRETE PIPES - CLASS 2 UNLESS OTHERWISE SHOWN.
2. ALL REINFORCED CONCRETE PIPES ARE TO BE RUBBER RING JOINTED.
3. PIPES IN EASEMENTS ARE TO BE RUBBER RING JOINTED OR UPVC SEWER CLASS PIPES WITH SOLVENT CEMENT JOINTS.
4. ALL DRAINAGE PITS IN COUNCIL ROAD RESERVES, DRAINAGE RESERVES AND RECREATION RESERVES ARE TO HAVE LIDS THAT ARE AT LEAST CLASS D (HEAVY DUTY) IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 3996.
5. ALL PITS ARE TO BE SET OUT FROM SURVEY CO-ORDINATES USING SET OUT POINTS DETAILED IN THE COGG STANDARD DRAWINGS.
6. ALL PIPES UNDER FOOTPATHS, DRIVEWAYS AND BEHIND BACK OF KERB SHALL BE BACKFILLED WITH 20mm NOM SIZE CLASS 3 FINE CRUSHED ROCK (WETMX) COMPACTED TO 95% MODIFIED COMPACTION IN 150mm MAXIMUM LAYERS.
7. CONTRACTOR TO USE 2% CEMENT STABILISED SAND FROM THE BOTTOM OF THE STORMWATER PIPE TO THE SPRINGLINE WHEN DRAINAGE IS CONSTRUCTED UNDER THE ROAD. CLASS 3 CRUSHED ROCK TO BE USED FOR BACKFILL FROM THE SPRINGLINE TO THE PAVEMENT SUB-BASE.
8. PIPEWORK AT ALL PITS TO BE WELL ALIGNED TO ENSURE FLOW IS GUIDED DIRECTLY TO OUTLET PIPE.
9. ALL PIPELINES ARE TO BE INSPECTED VIA CCTV AT PRACTICAL COMPLETION AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
10. PROPERTY INLET PITS TO BE LOCATED 1M FROM THE LOW CORNER UNLESS OTHERWISE SHOWN.
11. HOUSE DRAINS ARE TO BE 100mm DIAMETER SEWER CLASS PVC SOCKETED PIPES LOCATED 6.5m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN. OPTION "No. 1" IS TO CONNECT TO A PIT, "No.2" IS TO CONNECT TO THE UNDERGROUND DRAINAGE PIPE AND "No.3" IS TO KERB (MINIMUM 1.0m AWAY FROM EDGE OF VEHICLE LAYBACK).
12. HOUSE DRAINS ARE TO BE A MINIMUM OF 0.5m BELOW FINISHED SURFACE AT THE LOT BOUNDARY UNLESS OTHERWISE SHOWN.
13. EASEMENT DRAIN CONNECTION TO BE A MINIMUM OF 0.5m BELOW FINISHED SURFACE UNLESS OTHERWISE SHOWN.
14. WHEN USING 150mm DIAMETER UPVC SEWER CLASS PIPES IN EASEMENTS FOR PRIVATELY OWNED PROPERTIES, THE HOUSE DRAINS ARE TO BE CONNECTED USING STANDARD 1-PIECE FITTINGS.
15. WHEN USING 225mm DIAMETER OR LARGER UPVC PIPES, HOUSE DRAINS ARE TO BE CONNECTED IN A SIMILAR WAY TO CONCRETE PIPES SUBJECT TO THE INLET BEING CORE DRILLED.
16. WATER AND GAS SERVICE CONDUITS SHALL BE LOCATED CLEAR OF ALL DRIVEWAY CROSSINGS AND SHALL EXTEND FROM THE POINT OF SUPPLY TO AT LEAST 500mm INSIDE THE HOUSE LOT TO BE SERVICED AND LEFT EXPOSED UNTIL INSPECTED BY COGG SUBDIVISIONS ENGINEER. WATER CONDUITS ARE TO BE LOCATED AT LEAST 6.5m FROM SIDE BOUNDARY. GAS CONDUITS ARE TO BE LOCATED 2m FROM "NON-DRIVEWAY" SIDE BOUNDARY OF LOT TO BE SERVICED. CONDUIT TRENCHES ARE TO BE BACKFILLED WITH CLASS 3 FCR. NEXT TO WATER CONDUIT IS PREFERRED.
17. THE LOCATION OF HOUSE DRAINS (H) AND SERVICE CONDUITS (W, G, T, AND E) ARE TO BE NEATLY ETCHED ON THE KERB FACE WITH 50mm HIGH LETTERS.
18. IN ROAD RESERVE EXISTING OPEN DRAINS ARE TO BE CLEANED OUT TO AN APPROVED BASE AND ANY SPOIL IS TO BE REMOVED FROM THE SITE. STRUCTURAL FILL (CLASS 4 MINIMUM) IS TO BE PLACED IN NOT MORE THAN 150mm LAYERS AND COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION. COMPACTION TESTS ARE TO BE PROVIDED TO THE SATISFACTION OF COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
19. ALL SUMPS IN PRE-CAST CONCRETE PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE, UNLESS APPROVED OTHERWISE BY THE COUNCIL WORKS INSPECTOR.
20. ALL DRAINAGE PIT LIDS ARE TO BE FIBRE REINFORCED PLASTIC (FRP) OR APPROVED EQUIVALENT TO THE REQUIRED CLASS LOADING, ALL DRAINAGE PITS WITHIN THE PAVEMENT ARE TO BE CLASS D GATIC.
21. BEDDING, LAYING, JOINTING, AND BACKFILLING OF ALL STORMPRO PIPES TO COMPLETED IN ACCORDANCE WITH AS/NZS 2566.2.



PHALARIS PARK PTY LTD

PHALARIS PARK ESTATE

STAGE 10
LOVELY BANKS, VIC 3221

INDEX

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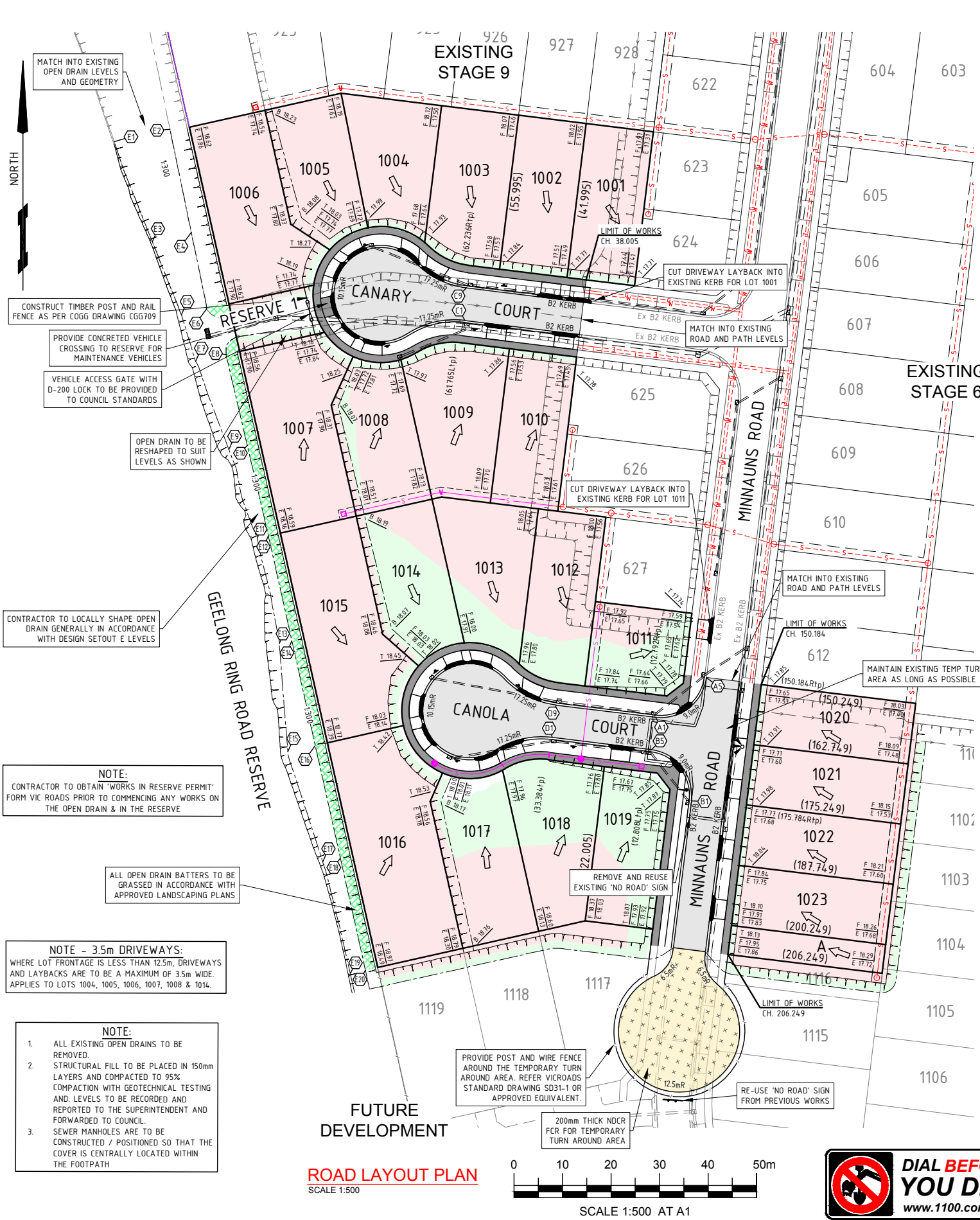
LOCALITY PLAN

MELWAYS REF: 431 G9

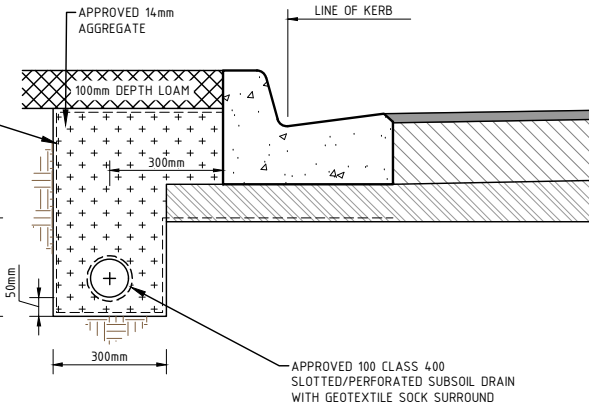
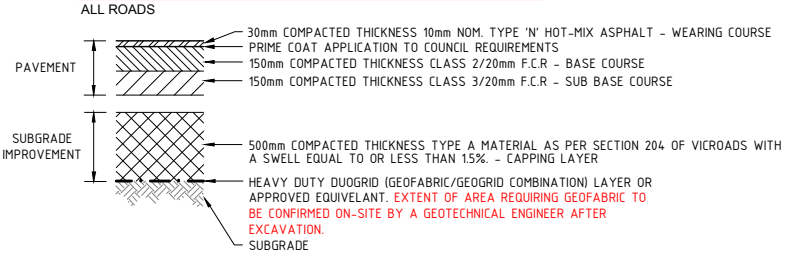


FOR CONSTRUCTION

ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED:	DATE:	CLIENT:	PROJECT:	DRAWING TITLE:
00	FOR APPROVAL	13/02/2020	A	FOR CONSTRUCTION	22/06/2020	H.S.	N.T.	S.CANTON	NOVEMBER 2019		PHALARIS PARK ESTATE	CIVIL DRAWING
01	FOR APPROVAL	11/03/2020	B	SIGNAGE AMENDMENT	22/07/2020	G.R.	N.T.	G.ROACHE	SCALE: N.T.S		STAGE 10	DRAWING TITLE:
02	FOR APPROVAL	31/03/2020	C	SERVICE OFFSET & PIT SETOUT	03/09/2020	G.R.	N.T.	CARDNO TGM GEELONG	SHEET SIZE: A1		MATTHEWS ROAD	INDEX & NOTES
									APPROVED:		LOVELY BANKS, VIC, 3221	
									PERMIT NO: 1123/2004/A		CITY OF GREATER GEELONG	
									WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION			
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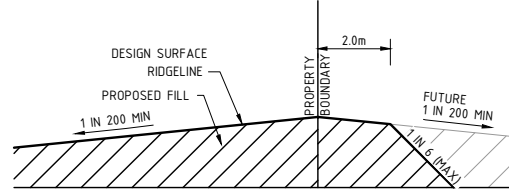


PAVEMENT CONSTRUCTION DETAIL



SUBSOIL DRAINAGE DETAIL

SCALE NTS REFER SD 145

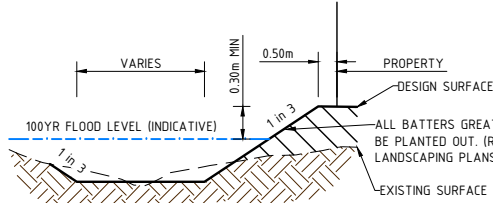


FILL AND RIDGELINE DETAIL: A-A

NOT TO SCALE

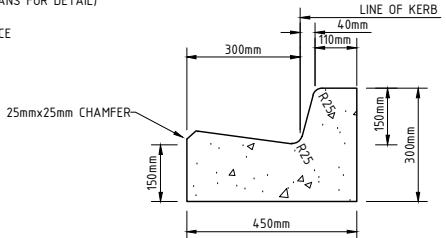
OPEN DRAIN SETOUT - E

POINT	EASTING	NORTHING	RL
E1	266282.221	5782215.72	17.917
E2	266293.716	5782218.298	17.917
E3	266290.084	5782195.143	17.844
E4	266298.109	5782197.058	17.845
E5	266296.077	5782180.119	17.761
E6	266301.219	5782181.272	17.761
E7	266298.999	5782170.526	17.766
E8	266305.26	5782171.93	17.769
E9	266305.857	5782152.379	17.841
E10	266309.633	5782153.239	17.841
E11	266311.619	5782134.032	17.915
E12	266316.008	5782134.578	17.915
E13	266316.251	5782112.435	18.000
E14	266318.825	5782113.009	18.000
E15	266317.997	5782090.146	18.086
E16	266323.648	5782091.413	18.086
E17	266325.189	5782067.482	18.177
E18	266328.812	5782068.291	18.177
E19	266330.865	5782044.467	18.269
E20	266333.977	5782045.165	18.269



OPEN DRAIN DETAIL: B-B

NOT TO SCALE



'B2' KERB DETAIL

NOT TO SCALE

LEGEND

EXISTING FEATURES

---	WATER
---	GAS
---	ELECTRICAL
---	COMMUNICATIONS
---	SEWER
---	FENCE
---	STORMWATER DRAINAGE
---	TOP OF BATTER / OPEN DRAIN

PROPOSED FEATURES

F 17.16	FINISHED SURFACE LEVEL
E 17.77	EXISTING SURFACE LEVEL
T 17.87	TOP OF RIDGE LEVEL
(187.81)	ROAD CENTRELINE CHAINAGE
(23.41tp)	ROAD TANGENT POINT CHAINAGE
	HOTMIX PAVEMENT
	125mm FOOTPATH
	INDICATES FILLING ON LOTS (LESS THAN 300mm)
	INDICATED FILLING ON LOTS (GREATER THAN 300mm)
	TEMPORARY TURNING AREA
	PROPOSED BATTER SLOPE EXCEEDING 1:5 TO BE PLANTED OUT TO VICROADS STANDARDS
	KERB AND CHANNEL DRIVEWAY LAYBACK (INDICATIVE ONLY)
	SEWER
	STORMWATER DRAINAGE
	LOT FALL ARROW
	OVERLAND FLOW ARROW
	TOP OF BATTER
	TOE OF BATTER
	STREET SIGN
	PSM (BY OTHERS)

FUTURE

	TITLE
	KERB

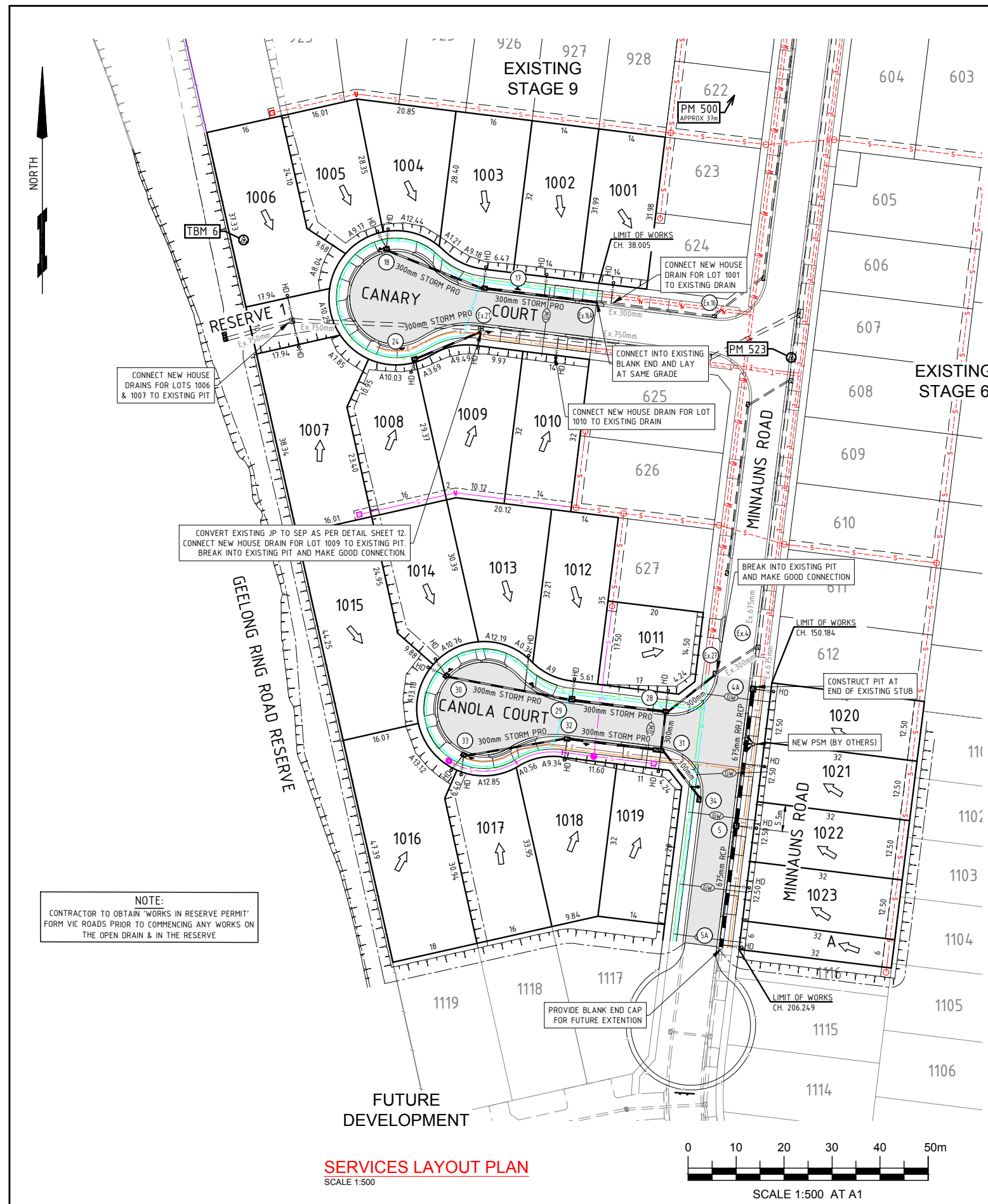
WARNING

BEWARE OF UNDERGROUND SERVICES

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

FOR CONSTRUCTION

ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED	SCALE	DATE	CLIENT	PROJECT	DRAWING TITLE	TOP REF. No.	SHEET	REV	APP
00	FOR APPROVAL	13/02/2020	A	FOR CONSTRUCTION	22/06/2020	H.S.	N.T.	S.CANTON	REFER SHEET	NOVEMBER 2019	Cardno TGM	PHALARIS PARK ESTATE	ROAD LAYOUT PLAN	004108-210	2	13	A
01	FOR APPROVAL	11/03/2020						G.ROACHE				STAGE 10					
02	FOR APPROVAL	31/03/2020						CARDNO TGM GEELONG	A1			MATTHEWS ROAD					
								CHECKED: <i>[Signature]</i>	APPROVED: <i>[Signature]</i>			LOVELY BANKS, VIC, 3221					
								POS NO: PS 834025H	VERSION: V1	PERMIT NO: 1123/2004/A		CITY OF GREATER GEELONG					
								WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION									
								Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220									
								Phone +61 3 5202 4600 Fax +61 3 5202 4891									
								Email: victoria@cardno.com.au Web: www.cardno.com									
								ABN 11 125 568 461									
								JAS-ANZ Accredited: Quality ISO 9001 - CHMS AS/NZS 4801 - Environment ISO 14001									
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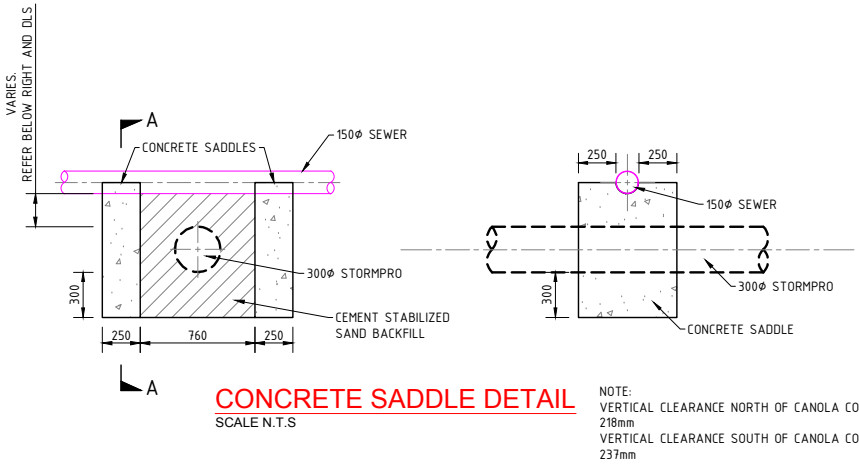
PERMANENT SURVEY MARKS (SMES)			
DESCRIPTION	MGA94 ZONE 55 EASTING	MGA94 ZONE 55 NORTHING	AHD LEVEL
MOORPANYAL PM 23	266441205	5781775.039	19.784
MOORPANYAL PM 465	26626191	5782387.14	18.71
MORANGHURK PM 30	266675.676	5783709.249	22.241

SURVEY CONTROL POINTS			
DATE OF SURVEY: 13/11/2019			
DESCRIPTION	PLANE EASTING	PLANE NORTHING	AHD LEVEL
MOORPANYAL PM 500	266426.34	5782257.79	16.78
MOORPANYAL PM 523	266419.58	5782171.78	17.09
TBM 6 - ROD	266305.44	5782196.28	17.86

PROPOSED SERVICE OFFSET LOCATIONS						
	WATER	GAS	COMMS	ELEC. LV	ELEC. HV	SEWER
MINNAUNA ROAD	2.7m W	2.1m W	1.9m E	2.4m E	2.4m E	-
CANARY COURT	2.7m N	2.1m N	1.9m S	2.5m S	-	-
CANOLA COURT	2.7m N	2.1m N	1.9m S	2.4m S	-	1.0m S
CANARY COURT (BOWL)	2.0m N & S	1.6m N & S	2.9m S	3.1m S	-	-
CANOLA COURT (BOWL)	2.0m N & S	1.6m N & S	2.9m S	3.1m S	-	1.0m S

EXISTING SERVICE OFFSET LOCATIONS						
	WATER	GAS	COMMS	ELEC. LV	ELEC. HV	SEWER
MINNAUNA ROAD	2.7m W	2.1m W	1.9m E	2.4m E	2.4m E	-
CANARY COURT	2.7m N	2.1m N	1.9m S	2.5m S	-	-

NOTE:
1. STRUCTURAL FILL TO BE PLACED IN 150mm LAYERS AND COMPACTED TO 95% COMPACTION WITH GEOTECHNICAL TESTING AND LEVELS TO BE RECORDED AND REPORTED TO THE SUPERINTENDENT AND FORWARDED TO COUNCIL. SEWER MANHOLES ARE TO BE CONSTRUCTED / POSITIONED SO THAT THE COVER IS CENTRALLY LOCATED WITHIN THE FOOTPATH.



LEGEND

EXISTING
--- W --- W --- WATER
--- G --- G --- GAS
--- E --- E --- ELECTRICAL
--- T --- T --- COMMUNICATIONS
--- S --- S --- SEWER
--- F --- F --- FENCE
--- D --- D --- STORMWATER DRAINAGE

PROPOSED
--- E --- ELECTRICAL
--- G --- GAS
--- T --- TELECOM
--- S --- SEWER
--- W --- WATER
--- HD --- HOUSE DRAIN
--- P --- DRAINAGE PIPE / PIT
--- LFA --- LOT FALL ARROW
--- GWC --- GAS/WATER/RECOVERED WATER CONDUIT
--- TOB --- TOP OF BATTER
--- TEB --- TOE OF BATTER
--- TBM --- TBM
--- PSM --- PSM (BY OTHERS)

FUTURE
--- TITLE
--- KERB

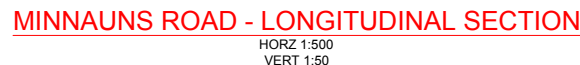
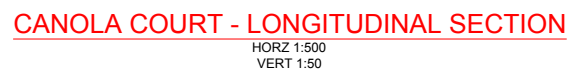
WARNING
BEWARE OF UNDERGROUND SERVICES
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ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED	DATE
00	FOR APPROVAL	13/02/2020	A	FOR CONSTRUCTION	22/06/2020	H.S.	N.T.	S.CANTON	NOVEMBER 2019
01	FOR APPROVAL	11/03/2020	A					G.ROACHE	SCALE: 1:500
02	FOR APPROVAL	31/03/2020	C	SERVICE OFFSET & PIT SETOUT	03/09/2020	G.R.	N.T.	CARDNO TGM GEELONG	SHEET SIZE: A1

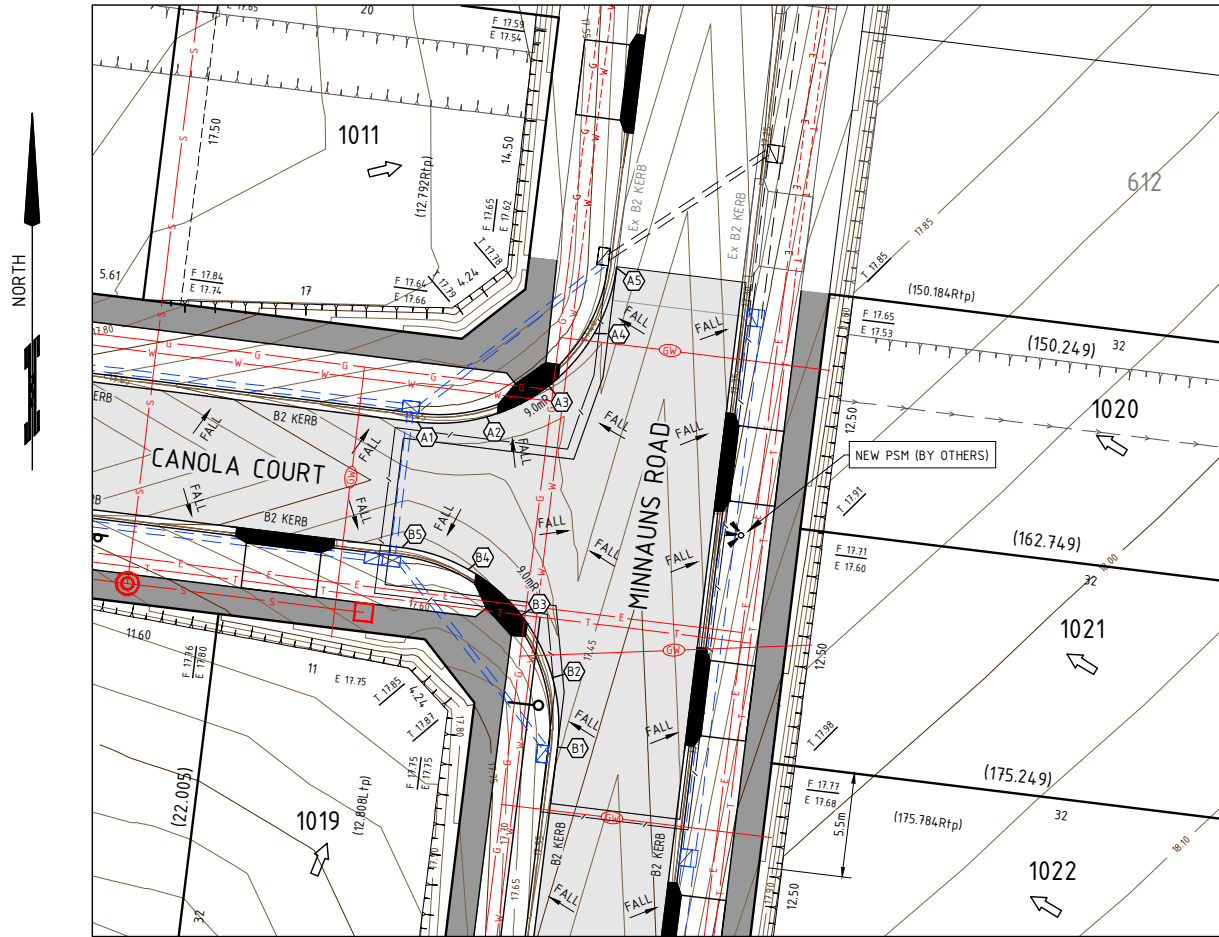
POS NO: PS 834025H	VERSION: V1	PERMIT NO: 1123/2004/A
WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION		

Cardno TGM ABN 11 125 568 461 Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220 Phone +61 3 5202 4600 Fax +61 3 5202 4691 Email: victoria@cardno.com.au Web: www.cardno.com.au	Phalaris Park.	PROJECT: PHALARIS PARK ESTATE STAGE 10 MATTHEWS ROAD LOVELY BANKS, VIC, 3221 CITY OF GREATER GEELONG
---	-----------------------	--

CIVIL DRAWING	
DRAWING TITLE: SERVICES LAYOUT PLAN	
TGM REF. No: 004108-210	SHEET: 3 OF 13



ISSUE		ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED	DATE	CLIENT		PROJECT	
00		FOR APPROVAL	13/02/2020	A	FOR CONSTRUCTION	22/06/2020	H.S.	N.T.	S.CANTON	NOVEMBER 2019	<div><p>Level 1, 27-31 Myers Street (PO Box 1137) Geelong VIC Australia 3220 Phone +61 3 5202 4600 Fax +61 3 5202 4691 Email: victoria@cardno.com.au Web: www.cardno.com</p><p>JAS-ANZ Accredited: Quality ISO 9001 - CH&S AS/NZS 4801 - Environment ISO 14001</p></div> <div><p>THIS ELECTRONIC DRAWING IS PRODUCED BY AUTOCAD (R) SYSTEMS AND REMAINS THE PROPERTY OF TGM GROUP Pty Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION.</p></div>		PHALARIS PARK ESTATE	
01		FOR APPROVAL	17/03/2020						G.ROACHE	H 1:500 V 1:50			STAGE 10	
02		FOR APPROVAL	31/03/2020						CARDNO TGM GEELONG	A1			MATTHEWS ROAD	
													LOVELY BANKS, VIC, 3221	
									PS 834025H	V1			CITY OF GREATER GEELONG	
WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION.												TGM REF. No: 004108-210		SHEET: 4 OF 13 REV: A



INTERSECTION DETAIL
SCALE 1:200



WARNING

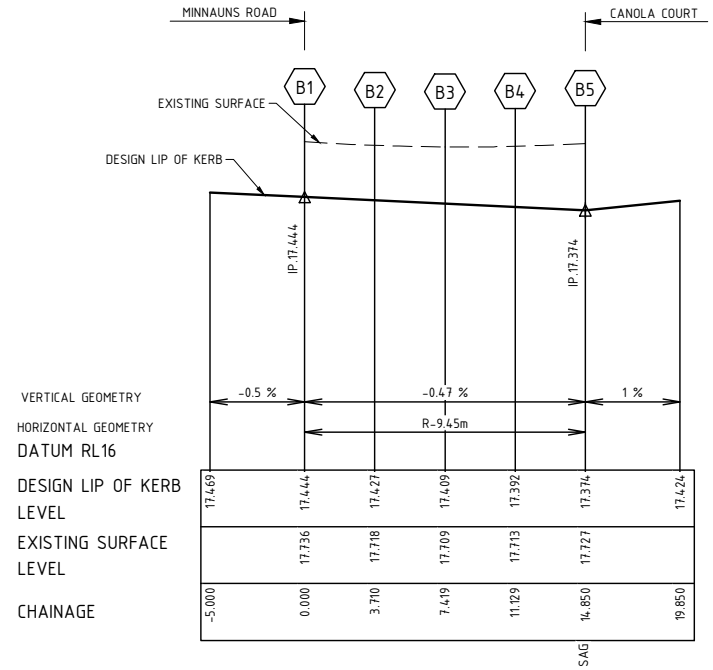
BEWARE OF UNDERGROUND SERVICES

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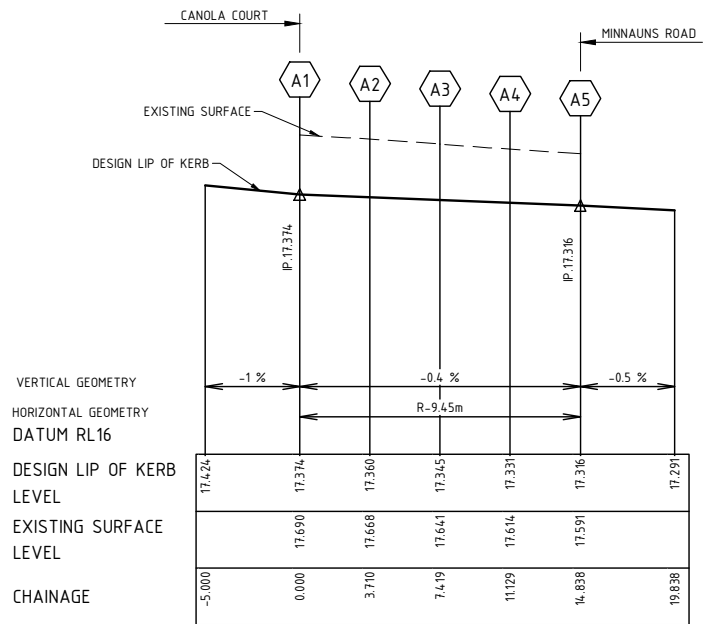
LEGEND

EXISTING FEATURES		PROPOSED	
	WATER		TOP OF RIDGE LEVELS
	GAS		EXISTING SURFACE LEVELS
	ELECTRICAL		FINISHED SURFACE LEVELS
	COMMUNICATIONS		CENTERLINE CHAINAGES
	SEWER		TANGENT POINT CHAINAGES
	STORMWATER DRAINAGE		KERB AND CHANNEL
	BATTER / OPEN DRAIN		DRIVEWAY LAYBACK (INDICATIVE ONLY)
			HOTMIX PAVEMENT
			125mm FOOTPATH
			ELECTRICAL
			TELSTRA
			WATER



KERB RETURN B - LONGITUDINAL SECTION

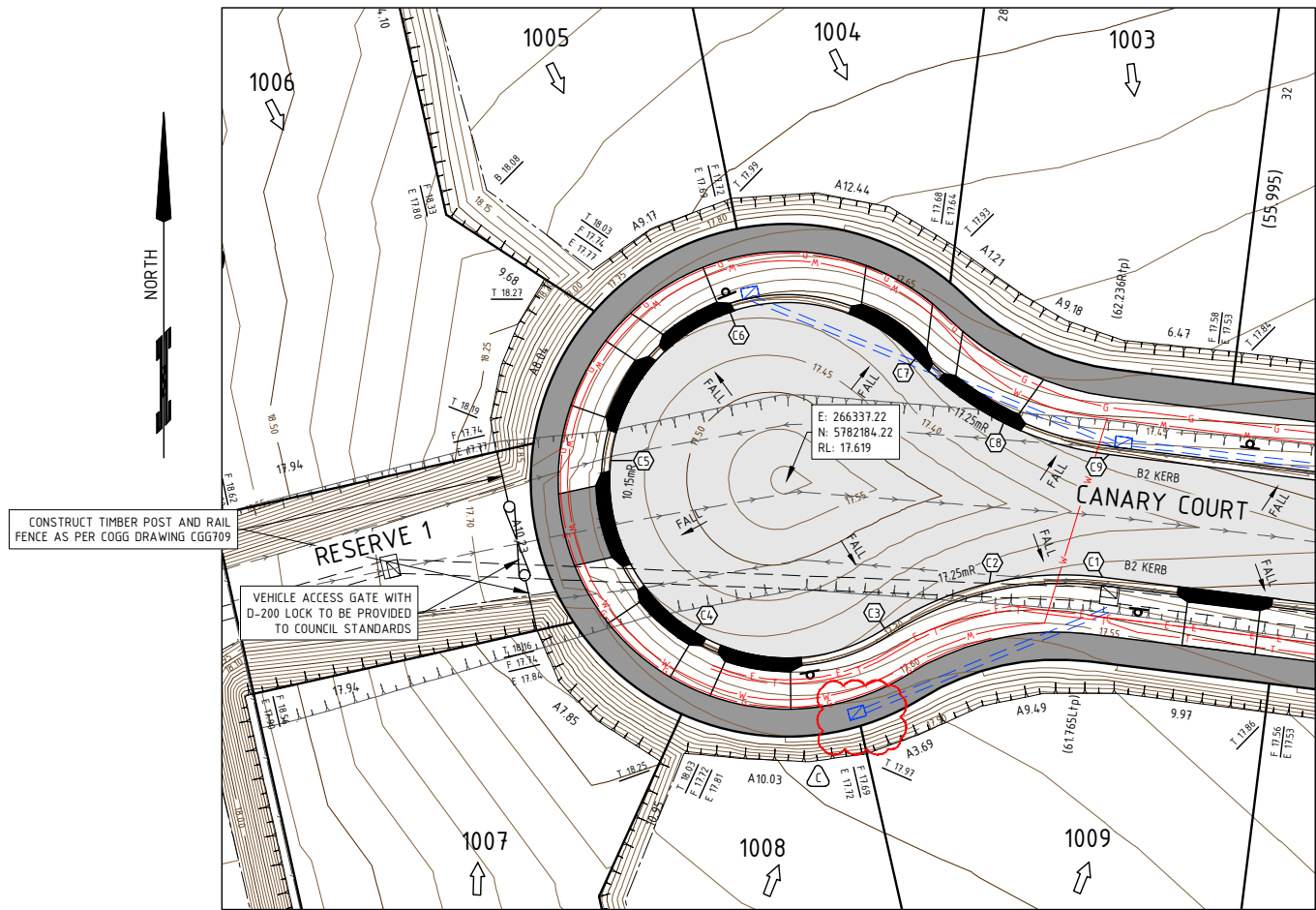
HORZ 1:200
VERT 1:20



KERB RETURN A - LONGITUDINAL SECTION

HORZ 1:200
VERT 1:20

ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED	SCALE	DATE	CLIENT	PROJECT	CIVIL DRAWING
00	FOR APPROVAL	13/02/2020	A	FOR CONSTRUCTION	22/06/2020	H.S.	N.T.	S.CANTON	REFER SHEET	NOVEMBER 2019	Phalaris Park.	PHALARIS PARK ESTATE	DRAWING TITLE:
01	FOR APPROVAL	17/03/2020						G.ROACHE	A1			STAGE 10	INTERSECTION DETAIL
02	FOR APPROVAL	31/03/2020						CARDNO TGM GEELONG				MATTHEWS ROAD	& KERB RETURNS
CHECKED:									APPROVED:			LOVELY BANKS, VIC, 3221	TGM REF. No.: 004108-210
POS NO: PS 834025H VERSION: V1 PERMIT NO: 1123/2004/A									WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION				
SAS-ANZ Accredited: Quality ISO 9001 - CHMS AS/NZS 4801 - Environment ISO 14001									THIS ELECTRONIC DRAWING IS PRODUCED BY AUTOCAD (R) SYSTEMS AND REMAINS THE PROPERTY OF TGM GROUP Pty. Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION				



COURT BOWL DETAIL A
SCALE 1:200



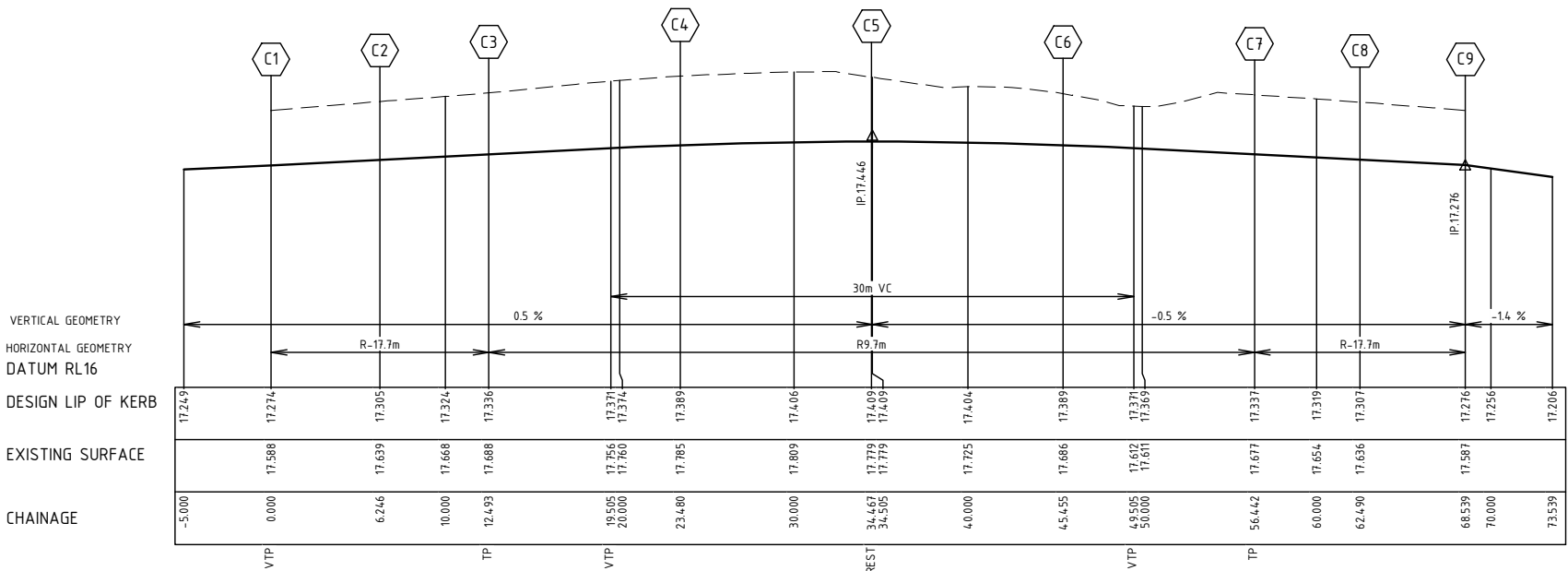
LEGEND

EXISTING FEATURES		PROPOSED	
---	WATER	T 10.22	TOP OF RIDGE LEVELS
---	GAS	E 10.37	EXISTING SURFACE LEVELS
---	ELECTRICAL	F 10.50	FINISHED SURFACE LEVELS
---	COMMUNICATIONS	(187.81)	CENTERLINE CHAINAGES
---	SEWER	(23.41tp)	TANGENT POINT CHAINAGES
---	STORMWATER DRAINAGE		KERB AND CHANNEL DRIVEWAY LAYBACK (INDICATIVE ONLY)
---	BATTER / OPEN DRAIN		HOTMIX PAVEMENT
			125mm FOOTPATH
			ELECTRICAL
			TELSTRA
			WATER

WARNING

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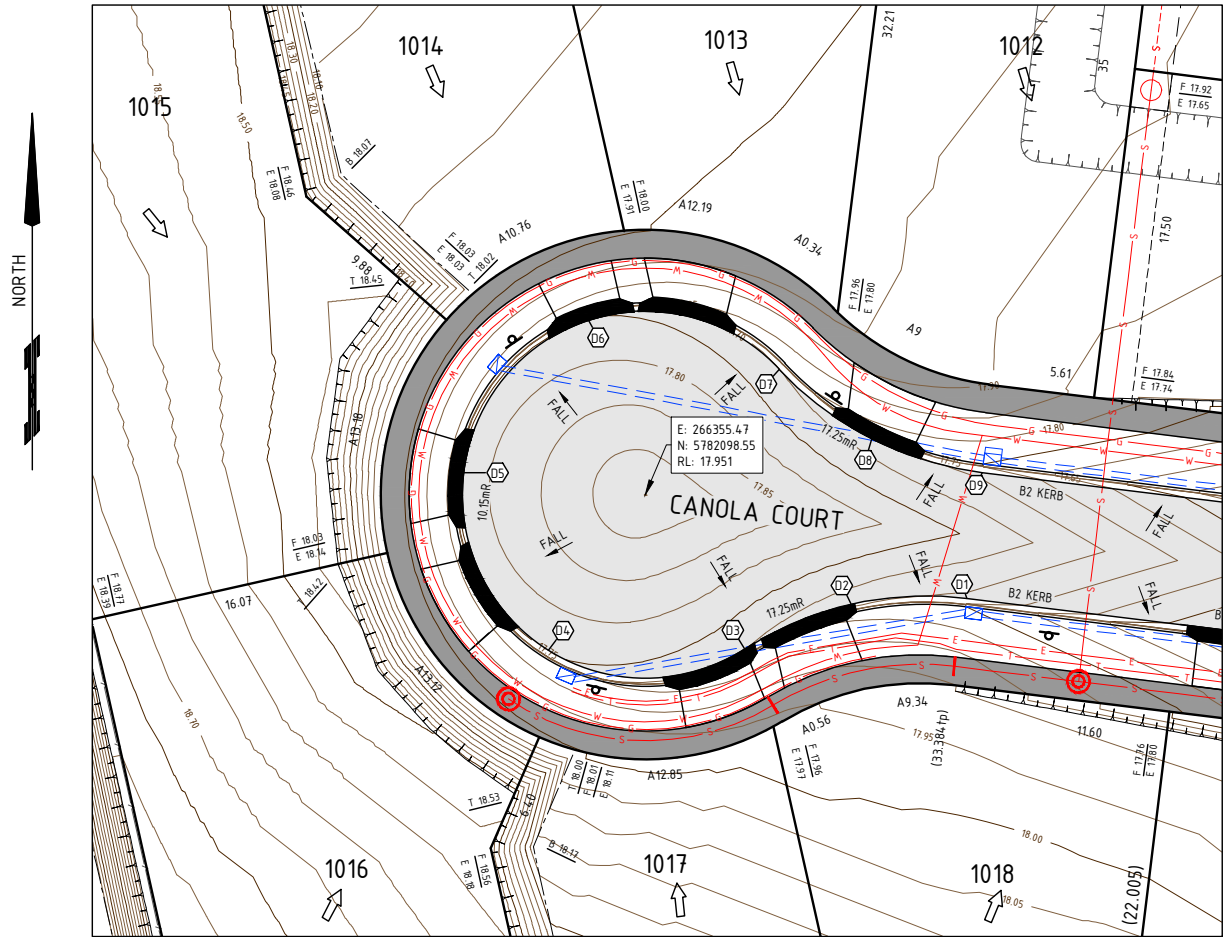


CANARY COURT LIP - LONGITUDINAL SECTION

HORZ 1:200
VERT 1:20

ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED	SCALE	DATE	CLIENT	PROJECT	CIVIL DRAWING
00	FOR APPROVAL	13/02/2020	A	FOR CONSTRUCTION	22/06/2020	H.S.	N.T.	S.CANTON	REFER SHEET	NOVEMBER 2019	PHALARIS PARK ESTATE	STAGE 10	
01	FOR APPROVAL	11/03/2020						G.ROACHE			MATTHEWS ROAD	LOVELY BANKS, VIC, 3221	
02	FOR APPROVAL	31/03/2020	C	SERVICE OFFSET & PIT SETOUT	03/09/2020	G.R.	N.T.	CARDNO TGM GEELONG	SHEET SIZE: A1		CITY OF GREATER GEELONG		

WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION	ABN 11 125 568 461 Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220 Phone +61 3 5202 4600 Fax +61 3 5202 4691 Email: victoria@cardno.com.au Web: www.cardno.com	THIS ELECTRONIC DRAWING IS PRODUCED BY AUTOCAD (R) SYSTEMS AND REMAINS THE PROPERTY OF TGM GROUP Pty Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION	DRAWING TITLE: COURT BOWL DETAIL A & KERB LONGITUDINAL SECTION SHEET: 6 OF 13 REV: C
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COURT BOWL DETAIL B
SCALE 1:200



LEGEND

EXISTING FEATURES		PROPOSED	
	WATER		TOP OF RIDGE LEVELS
	GAS		EXISTING SURFACE LEVELS
	ELECTRICAL		FINISHED SURFACE LEVELS
	COMMUNICATIONS		CENTERLINE CHAINAGES
	SEWER		TANGENT POINT CHAINAGES
	STORMWATER DRAINAGE		KERB AND CHANNEL DRIVEWAY LAYBACK (INDICATIVE ONLY)
	BATTER / OPEN DRAIN		HOTMIX PAVEMENT
			125mm FOOTPATH
			ELECTRICAL
			TELSTRA
			WATER
			SEWER
			DRAINAGE PIPE/PIT
			LOT FALL ARROWS
			TOP OF BATTER
			TOE OF BATTER
			STREET SIGN
			MAJOR CONTOURS (0.25m)
			MINOR CONTOURS (0.05m)
			OVERLAND FLOW ARROW
			PSM
			GAS / WATER CONDUIT

WARNING

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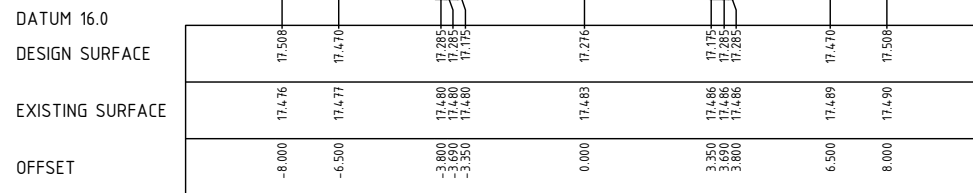
CANOLA COURT LIP - LONGITUDINAL SECTION

HORZ 1:200
VERT 1:20

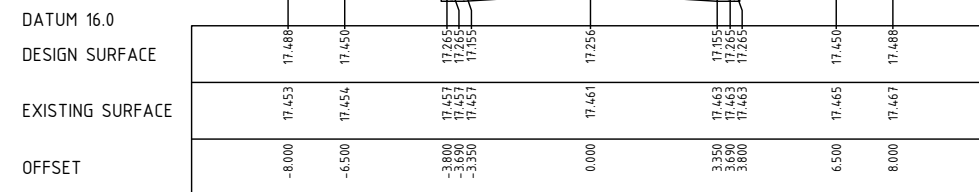
LTP = LEFT TANGENT POINT
RTP = RIGHT TANGENT POINT
TP = TANGENT POINT
CREST = HIGH POINT
SAG = LOW POINT
IP = INTERSECTION POINT
B1 = TANGENT POINT NUMBER

ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED	SCALE	CLIENT	PROJECT	DRAWING TITLE
00	FOR APPROVAL	13/02/2020	A	FOR CONSTRUCTION	22/06/2020	H.S.	N.T.	S.CANTON	REFER SHEET	PHALARIS PARK ESTATE	STAGE 10	COURT BOWL DETAIL B
01	FOR APPROVAL	11/03/2020						G.ROACHE	A1	MATTHEWS ROAD	LOVELY BANKS, VIC, 3221	& KERB LONGITUDINAL SECTION
02	FOR APPROVAL	31/03/2020						CARDNO TGM GEELONG		CITY OF GREATER GEELONG		
WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION									SHEET 7 OF 13			
J:\004108 (MATTHEWS ROAD)\210-CE (STAGE 10)\DWG\004108-210 (CIVIL) REV.CDWG									004108-210			

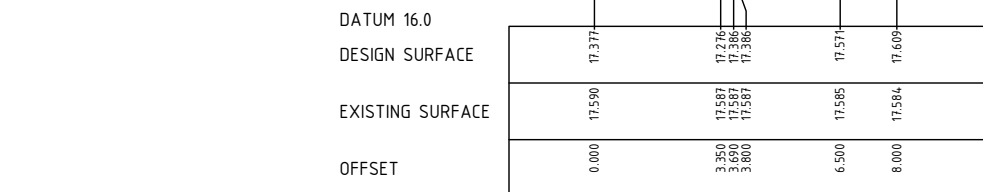
B1 = TANGENT POINT NUMBER



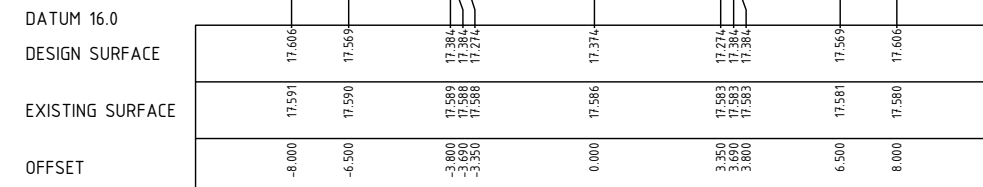
CH. 41.995 (TYPICAL)



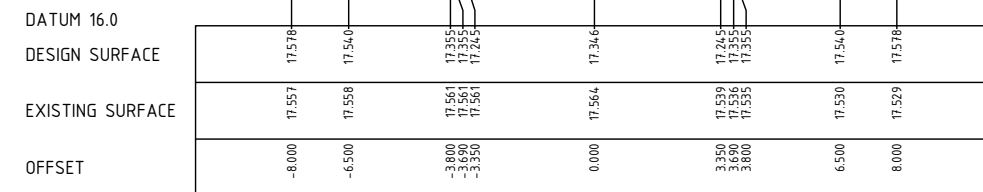
CH. 38.005 (START)



CH. 62.236 (RTP)



CH. 61.765 (LTP)



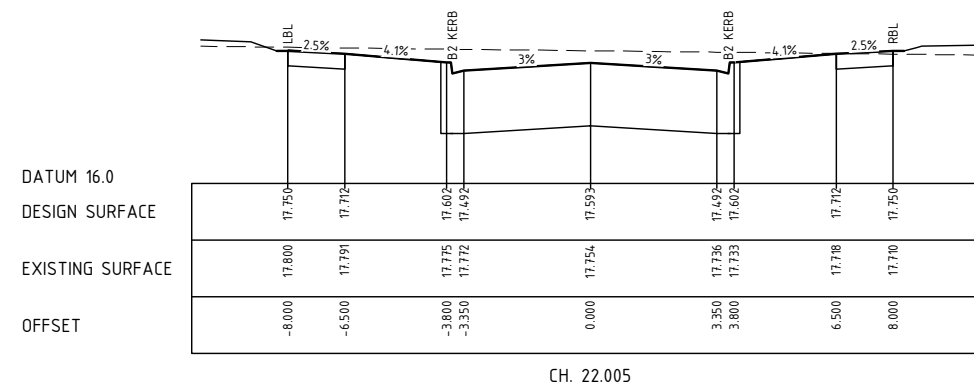
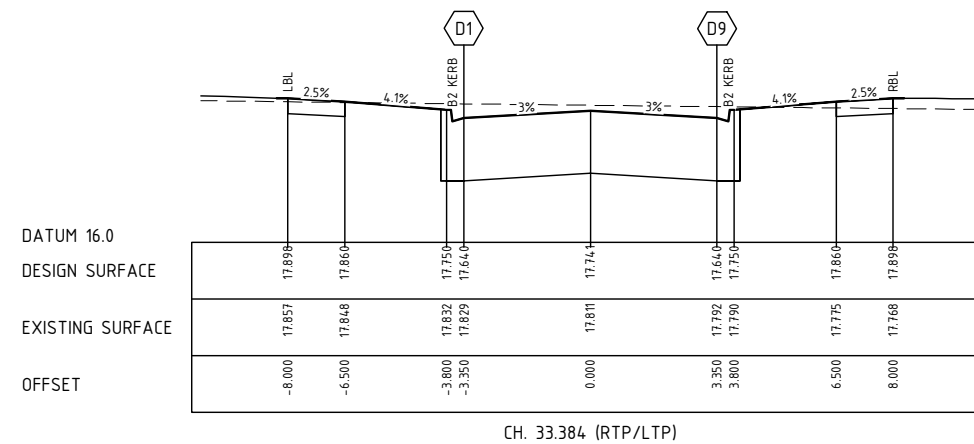
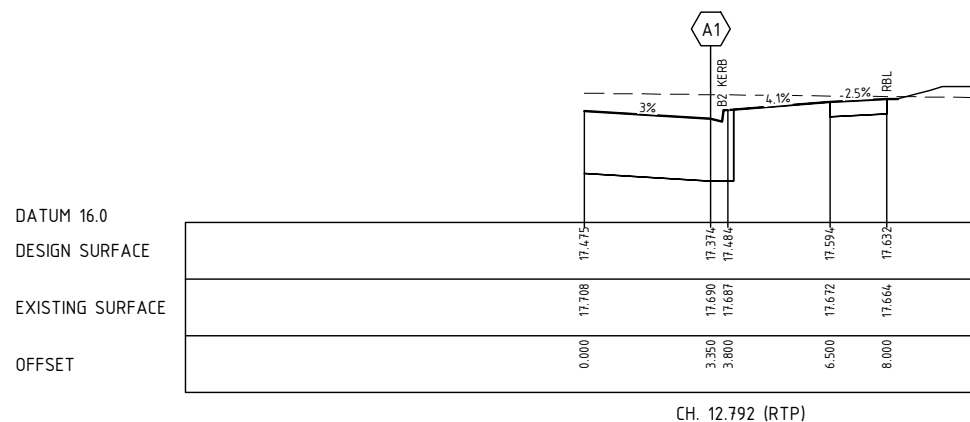
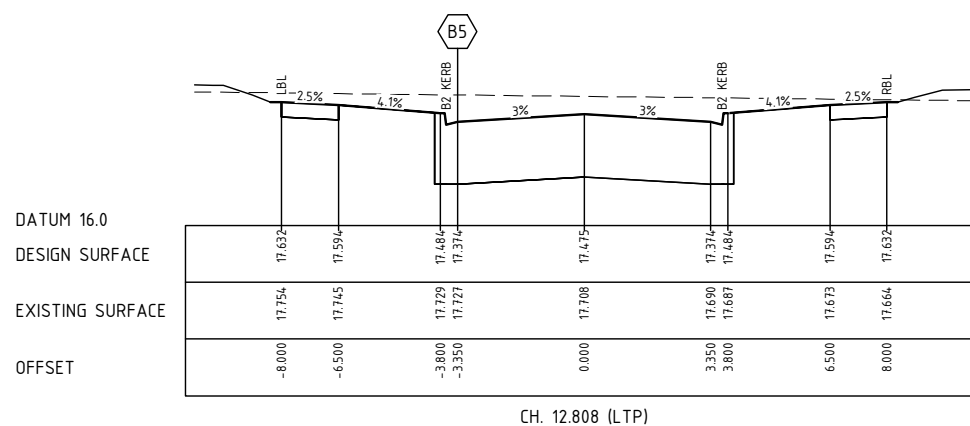
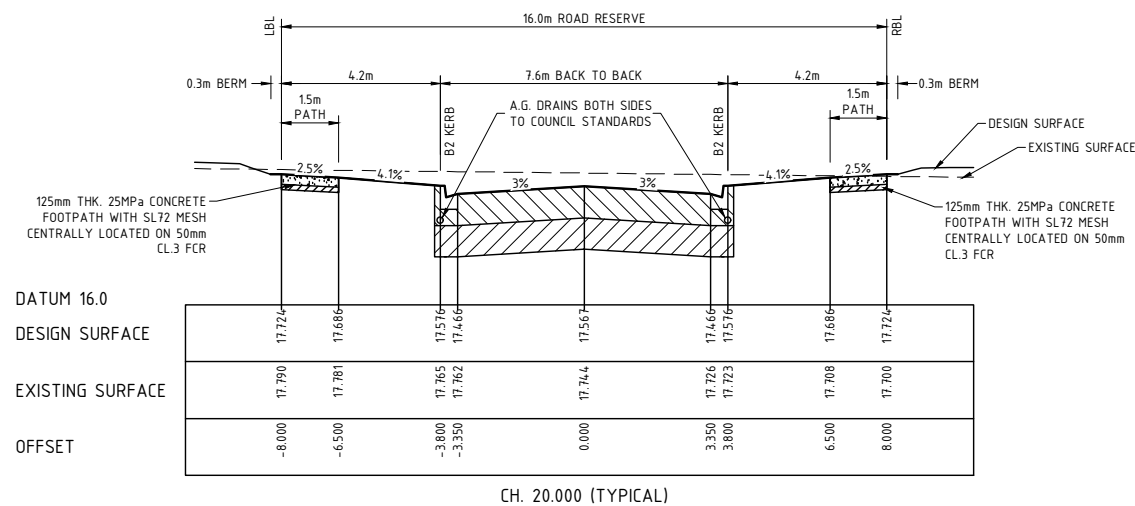
CH. 55.995

CANARY COURT - CROSS SECTIONS

HORZ 1:100
VERT 1:50

ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED: DRAWN: SURVEY: CHECKED: POS NO:	S.CANTON G.ROACHE CARDNO TGM GEELONG  PS 834025H V1	DATE: SCALE: SHEET SIZE: APPROVED: PERMIT NO:	NOVEMBER 2019 H 1:100 V 1:50 A1  1123/2004/A	 <p>ABN 11 125 568 461 Level 1, 27-31 Myers Street (PO Box 11137) Geelong, VIC Australia 3220 Phone +61 3 5202 4600 Fax +61 3 5202 4601 Email: victoria@cardno.com.au Web: www.cardno.com</p> <p>JAS-ANZ Accredited: Quality ISO 9001 - CHAS AS/NZS 4801 - Environment ISO 14001</p>	CLIENT:		PROJECT:	PHALARIS PARK ESTATE STAGE 10 MATTHEWS ROAD LOVELY BANKS, VIC, 3221 CITY OF GREATER GEELONG	<div>DRAWING TITLE:</div> <div>CIVIL DRAWING</div> <div>ROAD CROSS SECTIONS CANARY COURT</div> <div>TGM REF No: 004108-210</div> <div>SHEET 9 OF 13 REV. A</div>
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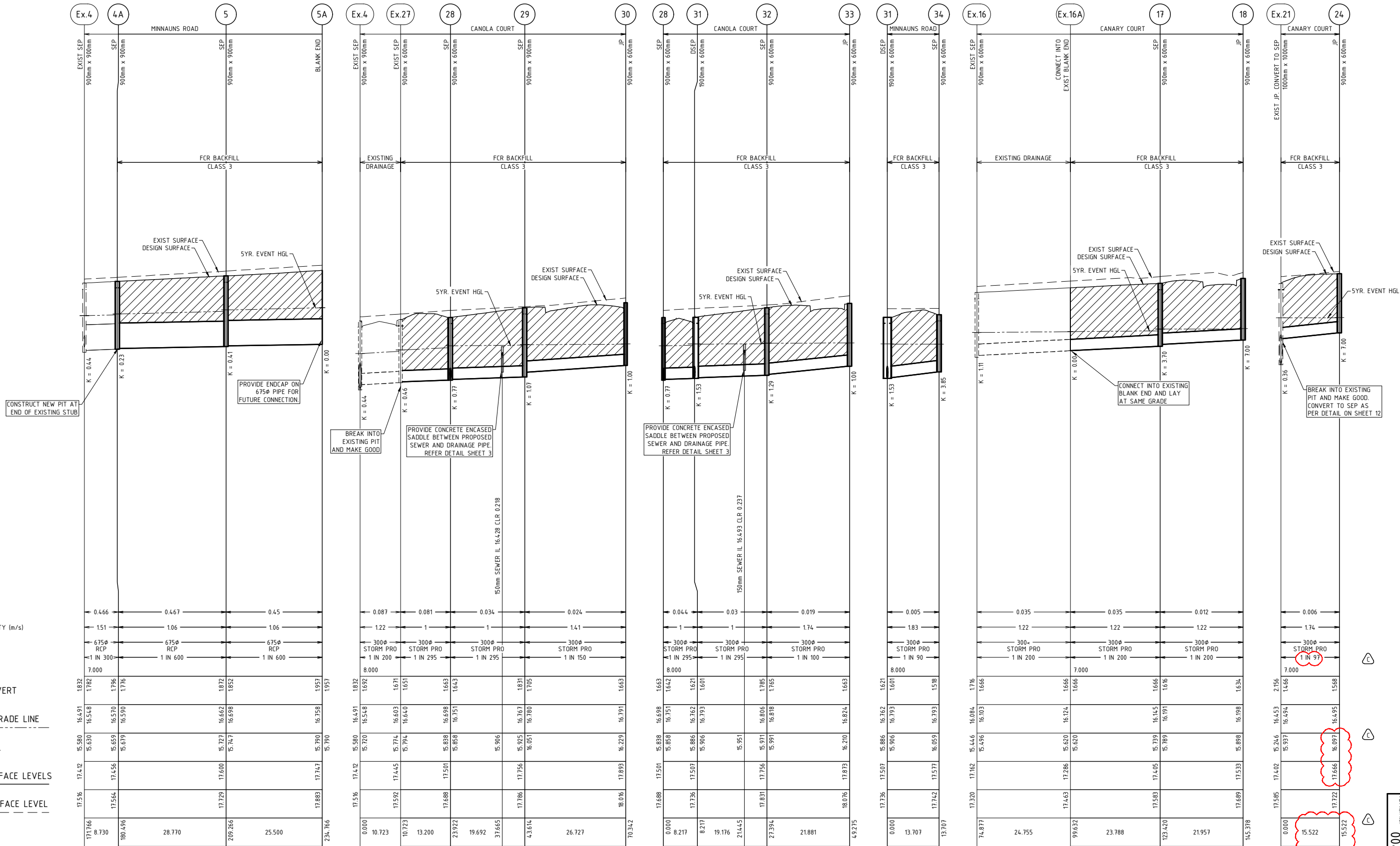
LTP = LEFT TANGENT POINT
RTP = RIGHT TANGENT POINT
TP = TANGENT POINT
CREST = HIGH POINT
SAG = LOW POINT
IP = INTERSECTION POINT
B1 = TANGENT POINT NUMBER



CANOLA COURT - CROSS SECTIONS

HORZ 1:100
VERT 1:50

ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED	SCALE	DATE	CLIENT	PROJECT	CIVIL DRAWING
00	FOR APPROVAL	13/02/2020	A	FOR CONSTRUCTION	22/06/2020	H.S.	N.T.	S.CANTON	H 1:100 V 1:50	NOVEMBER 2019	Phalaris Park.	PHALARIS PARK ESTATE	DRAWING TITLE:
01	FOR APPROVAL	11/03/2020						G.ROACHE				STAGE 10	ROAD CROSS SECTIONS
02	FOR APPROVAL	31/03/2020						CARDNO TGM GEELONG	SHEET SIZE: A1			MATTHEWS ROAD	CANOLA COURT
								CHECKED: 	APPROVED: 			LOVELY BANKS, VIC, 3221	TGM REF. No. 004108-210
								POS NO: PS 834025H	VERSION: V1	PERMIT NO: 1123/2004/A		CITY OF GREATER GEELONG	SHEET 10 OF 13 REV: A
								WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION			THIS ELECTRONIC DRAWING IS PRODUCED BY AUTOCAD (R) SYSTEMS AND REMAINS THE PROPERTY OF TGM GROUP Pty Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION.		
								JAS-ANZ Accredited: Quality ISO 9001 - CHMS AS/NZS 4801 - Environment ISO 14001					

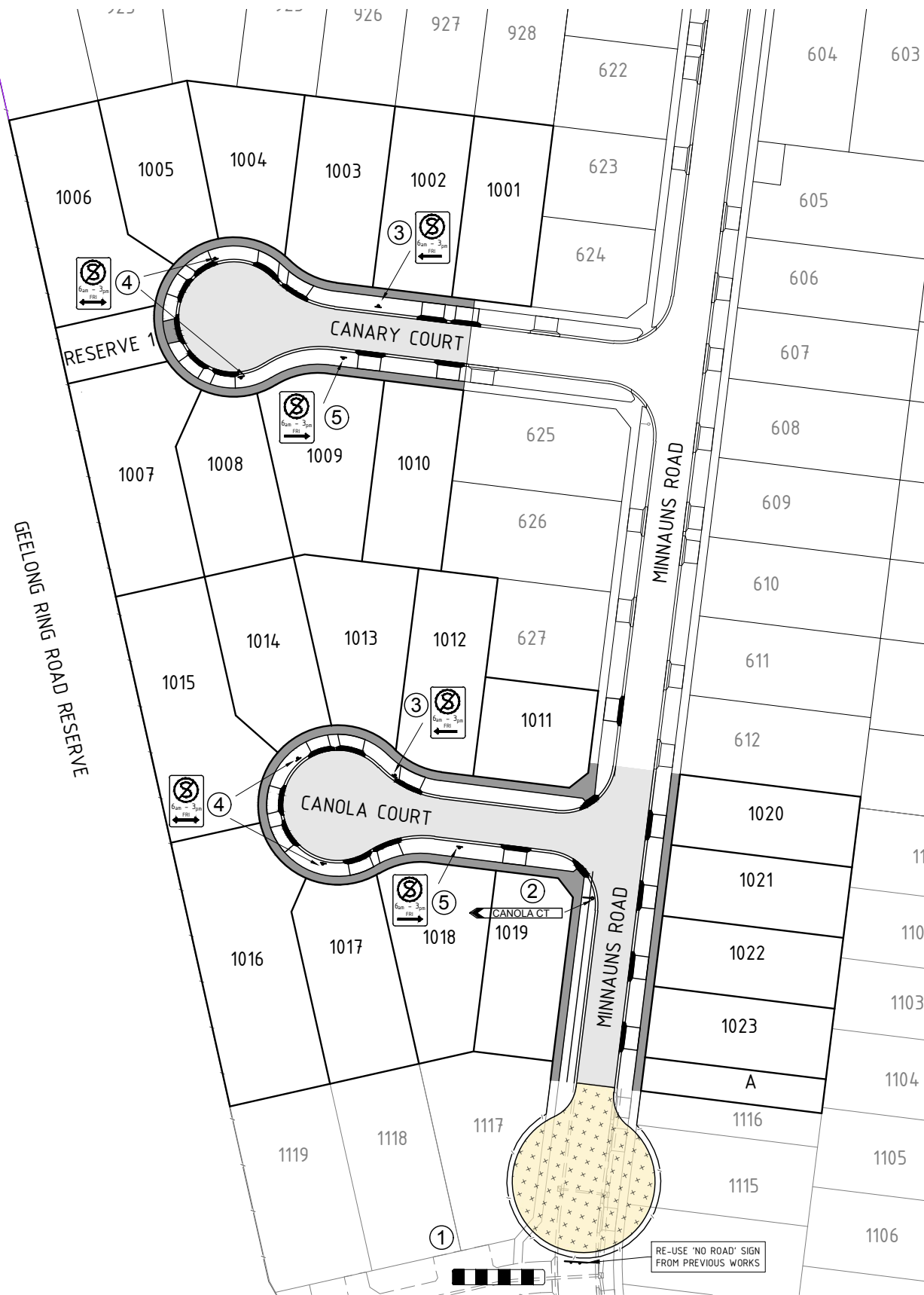


DRAINAGE LONGITUDINAL SECTIONS

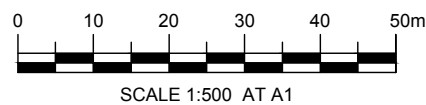
HORZ 1:500
VERT 1:50

ISSUE		ISSUED FOR		DATE	No.	AMENDMENT		DATE	DRAWN	APPROVED	DESIGNED:	S.CANTON	DATE:	NOVEMBER 2019	<div><p>ABN 11 125 568 461 Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220 Phone +61 3 5202 4600 Fax +61 3 5202 4691 Email: victoria@cardno.com.au Web: www.cardno.com</p><p>JAS-ANZ Accredited: Quality ISO 9001 - CHMS AS/NZS 4801 - Environment ISO 14001</p></div>	<div><p>THIS ELECTRONIC DRAWING IS PRODUCED BY AUTOCAD (R) SYSTEMS AND REMAINS THE PROPERTY OF TGM GROUP Pty Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION.</p></div>	CLIENT:	PROJECT:	CIVIL DRAWING		
00		FOR APPROVAL	13/02/2020	A	FOR CONSTRUCTION		22/06/2020	H.S.	N.T.	DRAWN:	G.ROACHE	SCALE:	H 1:500 V 1:50	<div>PHALARIS PARK ESTATE STAGE 10 MATTHEWS ROAD LOVELY BANKS, VIC, 3221 CITY OF GREATER GEELONG</div>							
01		FOR APPROVAL	17/03/2020							SURVEY:	CARDNO TGM GEELONG	SHEET SIZE:	A1				<div>DRAINAGE LONGITUDINAL SECTIONS</div>				
02		FOR APPROVAL	31/03/2020	C	SERVICE OFFSET & PIT SETOUT		03/09/2020	G.R.	N.T.	CHECKED:		APPROVED:						<div>TGM REF. No.: 004108-210</div>			
												POS. NO:	PS 834025H						VERSION:	V1	PERMIT NO:
WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION																					

[illegible]



SIGNAGE AND LINEMARKING PLAN
SCALE 1:500



SIGNAGE SCHEDULE				
① x 1		D4-5	HAZARD MARKER (RE-USE FROM EXISTING STAGE)	
② x 1		G5 SERIES	STREET NAME	
③ x 2		P1	NO STOPPING 6am-3pm FRI	
④ x 4		P2	NO STOPPING 6am-3pm FRI	
⑤ x 2		P3	NO STOPPING 6am-3pm FRI	

LEGEND

PROPOSED	
	HOTMIX PAVEMENT
	125mm FOOTPATH
	STREET SIGN



WARNING

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ISSUE		ISSUED FOR		DATE	No.	AMENDMENT		DATE	DRAWN	APPROVED	DESIGNED: S.CANTON	DATE: NOVEMBER 2019			CLIENT: PHALARIS PARK ESTATE STAGE 10 MATTHEWS ROAD LOVELY BANKS, VIC, 3221 CITY OF GREATER GEELONG	CIVIL DRAWING		SHEET 13 OF 13 REV B
00		FOR APPROVAL		13/02/2020	A	FOR CONSTRUCTION	22/06/2020	H.S.	N.T.	DRAWN: G.ROACHE	SCALE: 1:500	DRAWING TITLE: SIGNAGE AND LINEMARKING PLAN						
01		FOR APPROVAL		11/03/2020	B	SIGNAGE AMENDMENT	22/07/2020	G.R.	N.T.	SURVEY: CARDNO TGM GEELONG	SHEET SIZE: A1	TGM REF. No: 004108-210						
02		FOR APPROVAL		31/03/2020						CHECKED: 	APPROVED: 	SHEET 13 OF 13 REV B						
WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION.								Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220 Phone +61 3 5202 4600 Fax +61 3 5202 4691 Email: victoria@cardno.com.au Web: www.cardno.com								THIS ELECTRONIC DRAWING IS PRODUCED BY AUTOCAD (R) SYSTEMS AND REMAINS THE PROPERTY OF TGM GROUP Pty Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION.		