EMMAUS COLLEGE, VERMONT CAMPUS



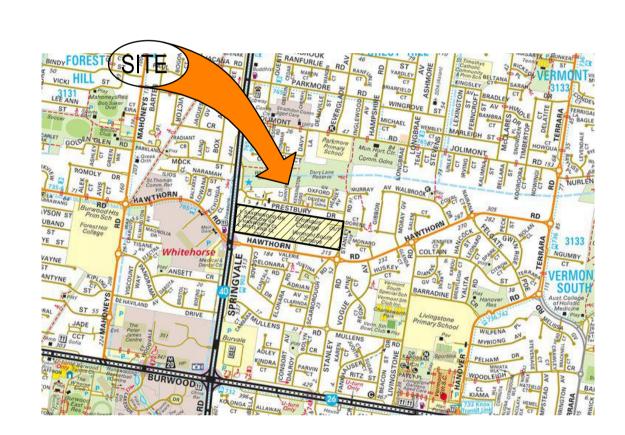
503 SPRINGVALE ROAD, VERMONT SOUTH, VIC 3133

CIVIL DRAWINGS

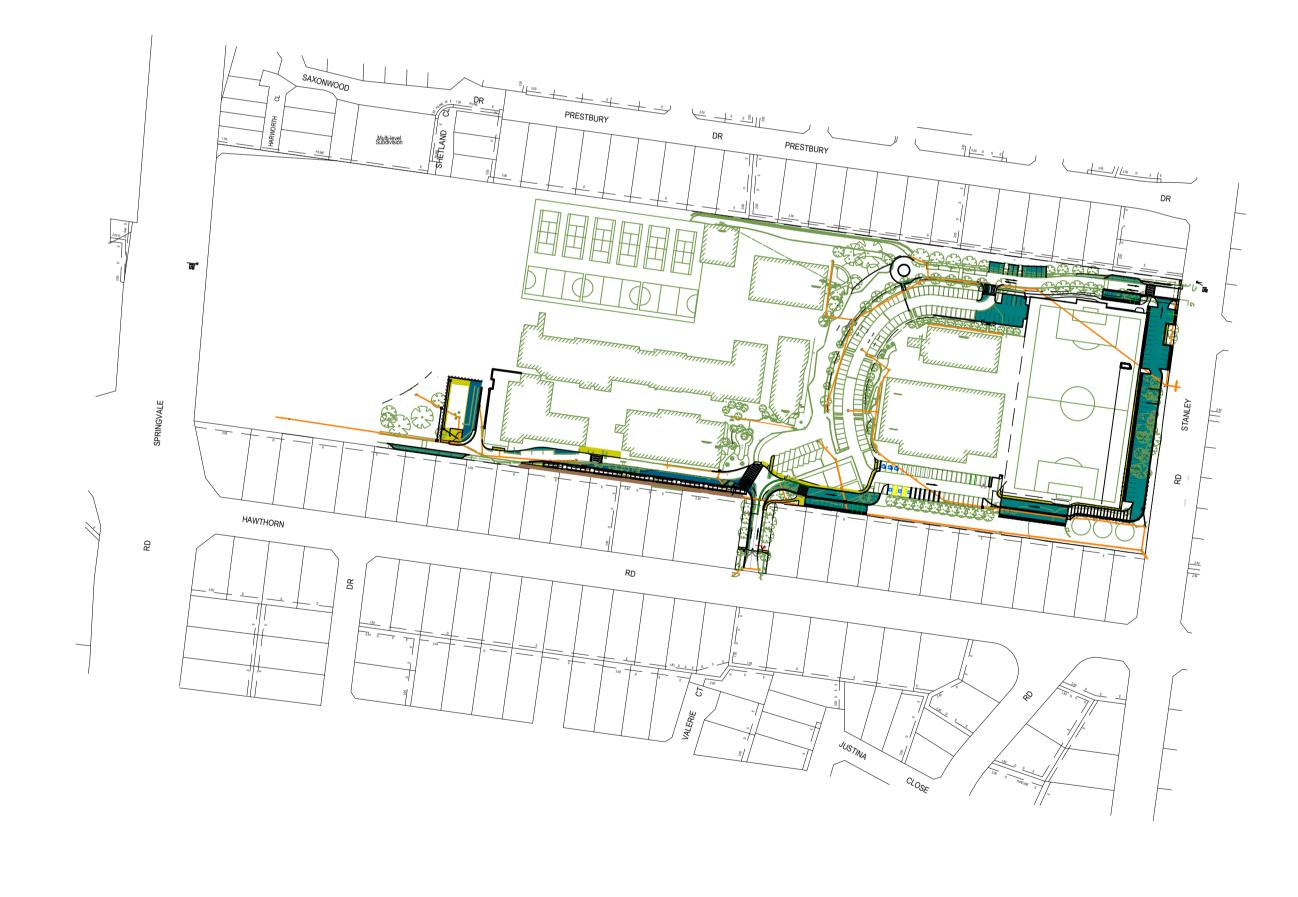
ADVERTISED PLAN

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KEY PLAN NOT TO SCALE

DRAWING SCHEDULE

SHEET No.	DESCRIPTION
C01	FACE SHEET
C02	GENERAL NOTES, AND CIVIL LEGEND
C03	CIVIL LAYOUT PLAN - SHEET 1 of 5
C04	CIVIL LAYOUT PLAN - SHEET 2 of 5
C05	CIVIL LAYOUT PLAN - SHEET 3 of 5
C06	CIVIL LAYOUT PLAN - SHEET 4 of 5
C07	CIVIL LAYOUT PLAN - SHEET 5 of 5
C08	CIVIL DETAILS
C09	TYPICAL SECTIONS
C10	DRAINAGE LONGITUDINAL SECTIONS AND PIT SCHEDULE



P5	PRELIMINARY ISSUE	RMcE	10.07.24
P4	PRELIMINARY ISSUE	RMcE	28.03.24
P3	PRELIMINARY ISSUE	RMcE	22.03.24
P2	PRELIMINARY ISSUE	RMcE	31.10.23
P1	PRELIMINARY ISSUE	RMcE	31.10.23
REVISION	DETAILS	DATE	APPROVED







Project Title :
EMMAUS COLLEGE, VERMONT CAMPUS
503 SPRINGVALE ROAD, VERMONT SOUTH,
VICTORIA 3133
CITY OF WHITEHORSE

Drawing No :

07 23 24 C01

FACE SHEET

- 1. DO NOT SCALE FROM THIS DRAWING, USE WRITTEN DIMENSIONS ONLY.
- 2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:
- a. ARCHITECTURAL AND OTHER SERVICES PLANS AND SPECIFICATIONS. b. SITE DERIVED INFORMATION.
- c. STRUCTURAL PLANS AND SPECIFICATIONS.
- d. ANY ADDITIONAL INSTRUCTIONS/INFORMATION SUPPLIED DURING THE COURSE OF
- CONSTRUCTION.
- e. RELEVANT GEOTECHNICAL REPORT. 3. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.)
- 4. THE CONTRACTOR IS TO ENSURE THAT ALL FOOTPATHS, KERBS, ROAD PAVEMENT, NATURE STRIPS, STREET FURNITURE AND SERVICES DAMAGED DURING CONSTRUCTION ACTIVITIES ARE MADE GOOD TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE AND OTHER RELEVANT AUTHORITIES.
- 5. THE CONTRACTOR IS TO COMPLY WITH THE EPA AND COUNCIL REQUIREMENTS FOR NOISE AND AIRBORNE POLLUTION.
- 6. PRIOR TO THE COMMENCEMENT OF WORKS THE CONTRACTOR IS TO ENSURE THAT ALL REQUIRED PERMITS ARE ISSUED BY THE RELEVANT AUTHORITIES.
- 7. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS, AND IN COMPLIANCE WITH THE BUILDING CODE OF AUSTRALIA, COUNCIL STANDARDS AND LOCAL LAWS.
- 8. THE CONTRACTOR IS TO ENSURE THAT A LICENSED SURVEYOR IS ENGAGED TO
- POSITION WORKS AND PROVIDE AS CONSTRUCTED PLANS. 9. NO CONTAMINATED FILL IS TO BE IMPORTED ONTO THIS SITE.
- 10. THE CONTRACTOR IS TO ENSURE THAT POLLUTION CONTROL MEASURES ARE IN PLACE DURING CONSTRUCTION AND THAT THEY COMPLY WITH EPA BEST PRACTICE GUIDELINES.
- 11. THE CONTRACTOR IS TO NOTIFY THE DIRECTOR OF ENGINEERING AT COUNCIL OF HAULAGE ROUTES AND SEEK APPROVALS AS REQUIRED.
- 12. THE CONTRACTOR IS TO ENSURE THAT ALL MAINTENANCE DEPOSITS AND BONDS ARE PAID TO THE RELEVANT AUTHORITIES AS REQUIRED.
- 13. ALL CONSTRUCTION WORK IS TO BE LIMITED TO COUNCIL APPROVED WORKING HOURS.
- 14. ANY PART/ROAD CLOSURES ARE TO BE APPROVED BY COUNCIL PRIOR TO WORKS COMMENCING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY COUNCIL WITH ANY DOCUMENTATION, SUCH AS TRAFFIC MANAGEMENT PLANS, AS REQUIRED TO OBTAIN PERMITS.
- 15. COORDINATES FOR SETTING OUT ARE TO MAP GRID OF AUSTRALIA (M.G.A.)
- 16. ALL EXISTING TREES MUST BE PROTECTED UNLESS THEY ARE MARKED ON A COUNCIL APPROVED PLAN "TO BE REMOVED". THE CONTRACTOR IS TO ENSURE THAT ALL WORKS WITHIN DRIP LINES OF TREES TO BE RETAINED ARE CARRIED OUT IN ACCORDANCE WITH AN APPROVED ARBORIST PROCEDURE.
- 17. EXISTING PITS REUSED IN PROPOSED STORMWATER SYSTEM ARE UNDERSTOOD TO BE IN ACCORDANCE WITH EXISTING ACCESS MAINTENANCE REQUIREMENTS. SHOULD REQUIREMENTS BE INSUFFICIENT, CONTRACTOR TO CORRECT.

STORM WATER DRAINAGE NOTES:

- 1. ALL DRAINAGE PIPES ARE TO BE R.C. CLASS '2', F.R.C. STORMPRO, OR S.G.U.P.V.C. UNLESS NOTED OTHERWISE ON PLAN.
- 2. ALL PITS ARE TO BE CONCRETE AND CONSTRUCTED TO RELEVANT DETAILS AND ALL COVERS ARE TO BE IN ACCORDANCE WITH AS3996-2006. CONCRETE FOR ALL PITS TO BE AT LEAST GRADE N25.
- 3. ALL STREET PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF MERRI-BEK STANDARDS.
- 4. ALL LEVELS AND DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES ARE TO BE REFERRED TO THE
- ENGINEER FOR A DECISION. 5. THE CONTRACTOR IS TO VERIFY THE LOCATION AND LEVEL OF SERVICES PRIOR TO ANY EXCAVATION WORKS IN THE VICINITY OF THESE SERVICES. ALL CLEARANCES BETWEEN
- SERVICES ARE TO BE MET IN ACCORDANCE WITH AS3500.3:2003 SECTION 7.2.7. 6. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL
- SERVICES PRIOR TO COMMENCEMENT OF WORKS. 7. THE CONTRACTOR IS TO CONTACT ALL RELEVANT AUTHORITIES 48 HOURS PRIOR TO
- ANY EXCAVATION WORKS IN THE VICINITY OF THE IDENTIFIED SERVICES. 8. ANY EXCAVATED TRENCHES IN EXCESS OF 1.5m IN DEPTH ARE TO BE ADEQUATELY
- SHORED TO PREVENT COLLAPSE DURING WORKS. 9. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL APPROVED PLANS
- AND STANDARD DRAWINGS. 10. THE CONTRACTOR IS TO OBTAIN ALL NECESSARY INSPECTIONS AND APPROVALS FROM
- THE CITY ENGINEER AND ALL OTHER RELEVANT AUTHORITIES. 11. UNLESS NOTED OTHERWISE, TRENCH BACKFILL SHOULD BE COMPACTED TO NOT LESS

THAN 95% OF THE DRY DENSITY RATIO FOR STANDARD COMPACTION UNDER LANDSCAPED AREAS AND 98% MODIFIED COMPACTION UNDER PAVED AREAS.

- 12. WHEN REMOVING ANY REDUNDANT PIPES AND PITS. THE CONTRACTOR MUST BACKFILL IN ACCORDANCE WITH TRENCH BACKFILL NOTES ABOVE.
- 13. CONTRACTOR IS TO PROVIDE A SAMPLE OF GRATES TO BE PLACED ADJACENT TO PATHS FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.
- 14. SCHOOL WORKS SUPERVISOR IS TO BE GIVEN 24 HOUR NOTICE PRIOR TO INSPECTIONS
- OF THE FOLLOWING ITEMS: 14.1. BREAK IN AND PIPE TO PIT CONNECTION, PRIOR TO BACKFILL AT LEGAL POINT OF
- DISCHARGE 14.2. COMPLETION OF WORKS.
- 15. ALL PLUMBING AND DRAINAGE WORK IS TO BE COMPLETED IN ACCORDANCE WITH AS3500:2003 AND ANY OTHER RELEVANT CODES OF PRACTICE FOR SERVICES AND
- ASSOCIATED WORKS. 16. ALL PIPES ARE TO HAVE MINIMUM 300mm COVER UNLESS NOTED OTHERWISE.
- 17. MANHOLE COVERS AND GRATINGS MUST MATCH FINISHED SURFACE LEVELS AND
- 18. ALL MINIMUM PIPE GRADES ARE TO BE IN ACCORDANCE WITH AS3500-3:2003

HEALTH AND SAFETY:

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL WORKS ARE CARRIED OUT IN A SAFE MANNER. THE WORKS SHALL COMPLY WITH APPLICABLE HEALTH AND SAFETY LEGISLATION INCLUDING CODES OF PRACTICE, AUSTRALIAN STANDARDS, GUIDANCE NOTES AND WORKSAFE REQUIREMENTS.
- 2. THE CONTRACTOR SHALL ENSURE A RISK ASSESSMENT HAS BEEN CARRIED OUT AND DOCUMENTED FOR ALL ACTIVITIES PERFORMED ON THE SITE. SAFE WORK PROCEDURES MUST BE DOCUMENTED AS REQUIRED BY LEGISLATION AND RELEVANT AUTHORITIES. THE BUILDER MAY NEED TO ENGAGE SUITABLY EXPERIENCED CONSULTANTS TO PREPARE A SAFE WORK PROCEDURE IF THE BUILDER IS INEXPERIENCED IN THIS FIELD OR IF THEY ARE NOT SATISFIED WITH THE METHOD PROPOSED BY THE CONTRACTOR.

TREE PROTECTION ZONES:

- 1. CONTRACTOR TO ESTABLISH TREE PROTECTION ZONES IN ACCORDANCE WITH COUNCIL
- 2. A PROTECTIVE FENCE IS TO ERECTED AT THE PERIMETER OF THE TREE PROTECTION ZONE. 3. WATERING IS TO TAKE PLACE 4 TIMES OVER THE SUMMER AND AUTUMN SEASONS WITH
- APPROXIMATELY 700 LITRES OF WATER EACH TIME. 4. ANY WORKS WITHIN THE TREE PROTECTION ZONE IS TO BE APPROVED BY THE ARBORIST.
- THE CONTRACTOR IS TO PROVIDE A WORKS METHOD STATEMENT OUTLINING WORKS, ANY RISK OF DAMAGE TO THE ROOT STRUCTURE AND PROTECTION TECHNIQUES.

- 1. AG-DRAINS (SUBSOIL DRAINS) ARE TO BE INSTALLED IN ACCORDANCE WITH AS3500.3:2003.
- 2. MIN GRADE OF AG-DRAINS IS TO BE 1:150.
- 3. AG-DRAINS ARE TO BE FITTED WITH 150 DIA INSPECTION OPENINGS (I.O.) AT THEIR TOPMOST ENDS, AT CHANGES OF FLOW DIRECTIONS AND AT A MAXIMUM HORIZONTAL DISTANCE OF 45m.
- 4. INSPECTION OPENINGS (I.O.) ARE TO EXTEND VERTICALLY TO THE TOP OF A PAVED AREA AND FINISHED WITH A GALVANISED GATIC COVER OR WITHIN 100mm FROM THE SURFACE IN UNPAVED AREAS AND TERMINATED WITH A SCREW CAP LEGIBLY MARKED 'SW'. ADEQUATE CAST IRON PROTECTION COVERS ARE TO BE USED WHEN POSITIONED WITHIN TRAFFIC LANES OR PAVEMENTS WITH VEHICLE ACCESS.
- 5. THE CONTRACTOR IS TO ALLOW FOR ALL AG-DRAINS AS REQUIRED AT THE REAR OF RETAINING WALLS AND EDGE OF FLEXIBLE PAVEMENTS.
- 6. ALL AG-DRAINS ARE TO BE WRAPPED IN GEOTEXTILE MATERIAL OR THE ENTIRE BEDDING MATERIAL IS TO BE WRAPPED WITH GEOTEXTILE FABRIC OVERLAPPING NOT
- 7. UNLESS NOTED OTHERWISE THE EMBEDMENT MATERIAL IS TO BE 20mm NOM DIA CLEAN SCREENINGS FOR THE FULL DEPTH OF THE EMBEDMENT TRENCH EXCEPT FOR TOPSOIL REQUIREMENTS AS PER LANDSCAPING SPECIFICATIONS.

SUBGRADE PREPARATION AND EARTHWORKS:

REFER TO SOIL REPORT.

- 1. UNDER ALL PAVEMENT AREAS, STRIP ALL TOPSOIL AND PREPARE FOR PAVEMENT AS PER DETAIL.
- 2. CUT AND FILL AS REQUIRED TO PRODUCE FINISHED SURFACE LEVEL AS SPECIFIED LESS PAVEMENT THICKNESS AS SHOWN ON DRAWINGS.
- 3. COMPACT CUT SURFACE TO 98% STANDARD MAXIMUM DRY DENSITY (SMDD).
- 4. THE MOISTURE CONTENT OF THE SUBGRADE OR FILL SHOULD BE WITHIN 95%-105% OF THE STANDARD OPTIMUM MOISTURE CONTENT AT THE TIME OF COMPACTION.
- 5. PRIOR TO PLACEMENT OF FILL OR PAVEMENT REMOVE AND REPLACE SOFT OR UNSTABLE SUBGRADE WITH CLEAN WELL GRADED APPROVED MATERIAL COMPACTED TO 98% SMDD. PROOF ROLL SUBGRADE SURFACE WITH A DUAL WHEELED PNEUMATIC
- TYRED VEHICLE (MIN. 9.4 TONNE LOADED AXLE) AND MAKE GOOD TO ANY SOFT SPOTS. 6. EXCAVATED AND PREPARED SURFACES UNDER ALL PAVEMENTS SHALL BE SPRAYED WITH AN APPROVED WEED KILLER. CARE MUST BE TAKEN TO AVOID CONTAMINATING
- GARDEN BEDS AND LAWN AREAS. 7. FILLING SHALL BE CLEAN WELL GRADED GRANULAR MATERIAL COMPACTED TO 95% MMDD IN MAX.200mm LOOSE THICKNESS LAYERS, OR APPROVED IMPORTED CLAY FILL COMPACTED TO 98% SMDD IN 150mm LAYERS.
- 8. CUT OR BACKFILL AREA BEHIND KERBING TO TOP OF KERB AND GRADE TO 1 IN 4 MAX SLOPE TO MATCH EXISTING SURFACE LEVELS.
- 9. CONTRACTOR IS TO SUPPLY A RATE TO DEAL WITH SOFT SPOTS, THE RATE IS TO INCLUDE EXCAVATION AND REMOVAL OF SPOIL OFF SITE; RATE IS TO BE CALCULATED PER CUBIC METRE OF BACKFILL.

CONCRETE PAVEMENTS

- 1. UNLESS SPECIFIED OTHERWISE ALL EXTERNAL PAVEMENT FINISHES TO BE NON-SLIP STIPPLE FINISH.
- 2. ALL PAVEMENTS TO BE CURED IN ACCORDANCE WITH CURRENT INDUSTRY PRACTICE AND AS SPECIFIED IN AS 3600.
- 3. ALL JOINTS TO BE SEALED WITH FLEXIBLE WATERPROOF SEALANT.
- 4. ALL SLAB EDGES TO BE THICKENED IN ACCORDANCE WITH THE ENGINEERED DETAIL.
- 5. WHEN CONCRETE PAVEMENTS FINISH AGAINST ANY STRUCTURES PROVIDE 10mm ABELFLEX SEPARATOR AND MINIMUM 15mm THICK FLEXIBLE SEALANT OVER.

PATHWAYS AND COURTYARDS:

- 1. PAVEMENT COMPOSITION INCLUDING THICKNESS AND REINFORCEMENT IS TO BE IN
- ACCORDANCE WITH THE ENGINEERED DETAIL.
- PATHWAYS ARE TO BE PROVIDED WITH UNIFORM CROSS FALL TO GRATE PITS WHERE PROVIDED OTHERWISE PROVIDE UNIFORM CROSS FALL AWAY FROM BUILDING AT 1:40 MAXIMUM GRADE.
- 3. REFER TO APPROVED ARCHITECTURAL DRAWINGS FOR ALL PATHWAY WIDTHS, EDGE DETAILING AND FINISHES.
- 4. LONGITUDINAL FALL TO BE MAXIMUM OF 1 IN 20.
- 5. STEP RAMPS, WHERE REQUIRED, ARE TO BE THE WIDTH OF MERGING PATHS WITH A
- GRADIENT NOT STEEPER THAN 1 IN 8. 6. ALL PATHWAYS ARE TO BE CONSTRUCTED OVER PROOF ROLLED SUBGRADE. ALL SOFTSPOTS ARE TO BE REMOVED AND BACKFILLED WITH WELL COMPACTED CRUSHED

CONCRETE STRENGTH

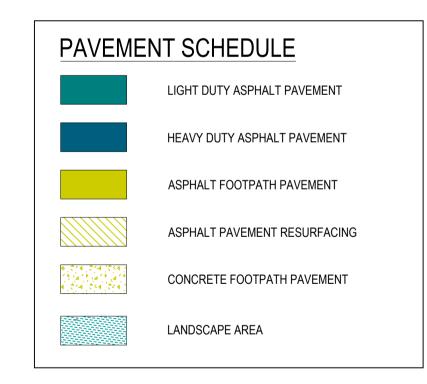
- 1. CONCRETE PAVEMENTS, PATHS, AND KERBS N32 MPA
- 2. CONCRETE RETAINING WALLS N40 MPA
- 3. CONCRETE DRAINAGE STRUCTURES N25 MPA
- 4. MINIMUM COVER TO STEEL REINFORCEMENT 40mm FOR PAVEMENTS AND 50mm FOR BURIED STRUCTURES.
- 5. CONCRETE COLOUR AND FINISH TO ARCHITECT'S DRAWINGS AND SPECIFICATIONS.

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PLAN

CIVIL LEGEND EXISTING SEWER — ExS — EXISTING WATER — ExW — — ExG — EXISTING GAS — ExT — EXISTING TELSTRA / FIBRE OPTIC — ExE — EXISTING ELECTRICITY EXISTING STORMWATER DRAIN & PITS PROPOSED STORMWATER DRAIN INTERNAL DRAINAGE SYSTEM BY OTHERS. REFER HYDRAULIC ENGINEERS DRAWINGS FOR DETAILS. (TYP) EXISTING SURFACE LEVEL PROPOSED PAVEMENT LEVEL TOP OF PIT LEVEL IL113.50 NEW INVERT LEVEL NEW FINISHED FLOOR LEVEL PROPOSED STORMWATER PIT EXISTING KERB & CHANNEL EXISTING KERB PROPOSED BARRIER KERB AND CHANNEL PROPOSED MODIFED KERB AND CHANNEL PROPOSED CONCRETE KERB PROPOSED SPIKED KERB PROPOSED SLEEPER RETAINING WALL PROPOSED BLOCK RETAINING WALL PROPOSED SAWCUT AG DRAIN —AG——AG— EXISTING TREE TO REMAIN EXISTING TREE TO BE REMOVED BOLLARDS BOLLARDS LOCKABLE F CHAINMESH FENCE (BY OTHERS) TD TREE DIAMOND T.B.M. RIVET IN KERB \(\Delta \) EXISTING TBM RL.114.25 AHD





	REVISIONS		
P5a	PRELIMINARY ISSUE	RMcE	15.07.24
P5	PRELIMINARY ISSUE	RMcE	10.07.24
P4	PRELIMINARY ISSUE	RMcE	28.03.24
P3	PRELIMINARY ISSUE	RMcE	22.03.24
P2	PRELIMINARY ISSUE	RMcE	31.10.23
P1	PRELIMINARY ISSUE	RMcE	31.10.23
REVISION	DETAILS	DATE	APPROVED



CIVIL	PLANS
Designed	Date
R McEWAN / M MASINA	NOV 2023
Drawn	Scale
M MASINA	NTS @ A1 SHEET

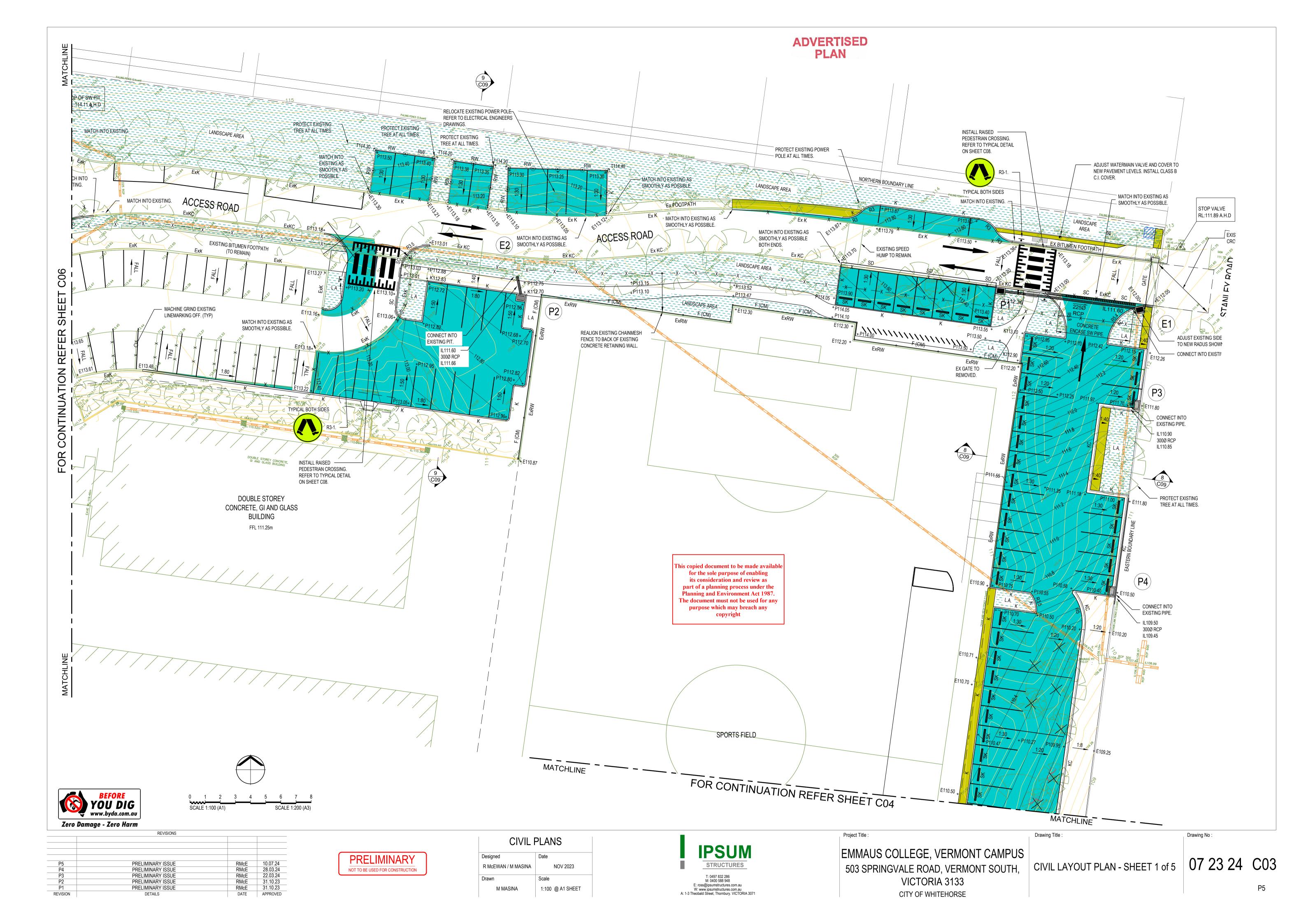


EMMAUS COLLEGE, VERMONT CAMPUS 503 SPRINGVALE ROAD, VERMONT SOUTH, VICTORIA 3133 CITY OF WHITEHORSE

Drawing Title GENERAL NOTES, AND CIVIL LEGEND

Drawing No:

07 23 24 C02



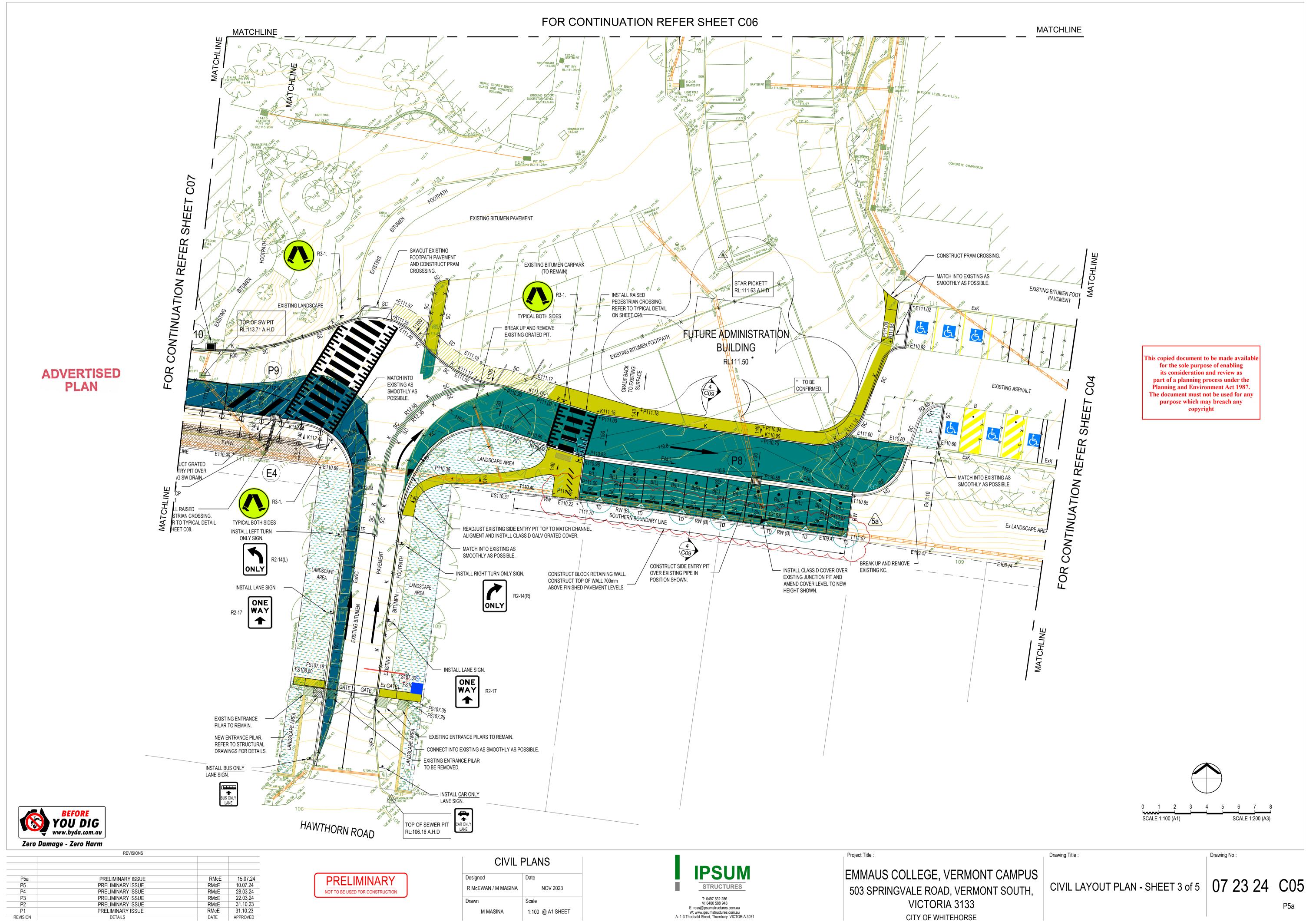


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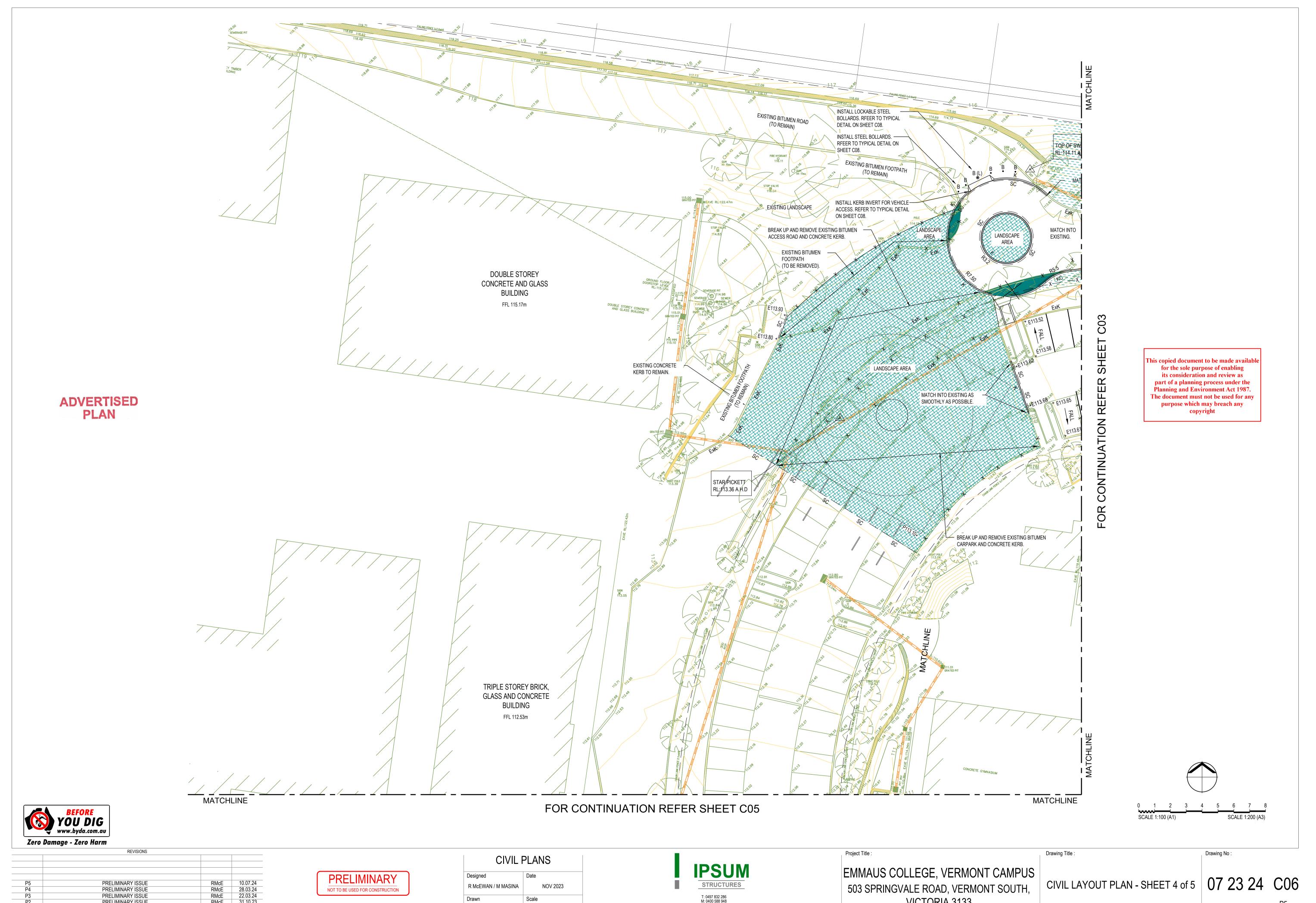
STRUCTURES T: 0497 832 286 M: 0400 588 948 E: ross@ipsumstructures.com.au W: www.ipsumstructures.com.au A: 1-3 Theobald Street, Thombury. VICTORIA 3071 503 SPRINGVALE ROAD, VERMONT SOUTH, VICTORIA 3133 CITY OF WHITEHORSE

CIVIL LAYOUT PLAN - SHEET 2 of 5 07 23 24 C04



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CITY OF WHITEHORSE



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1:100 @ A1 SHEET

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VICTORIA 3133 CITY OF WHITEHORSE

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright E114.73 FALL MAINTENANCE BREAK UP AND REMOVE EXISTING RETAINING WALLS FULL LENGTH. BREAK UP AND REMOVE EXISTING SW PIPE AND PITS. BUILD SW PIT OVER EXISTING PIPE. BREAK OFF EXISTING PIT GRATE AND INSTALL CLASS D GALV SM GRATE. SHEE **EXISTING RAISED** CONNECT AG DRAIN -CREATIVE INDUSTRIES PAVEMENT, TO INTO PROPOSED SW BUILDING NTINUATION REFER MATCH INTO EXISTING AS SMOOTHLY AS POSSIBLE. - BACKFILL EXISTING SW PIPE 225 ROP EXIL 115.87 WITH CLASS 2 FCR. REFER TO TOP OF SW PIT DETAIL ON SHEET C08. RL:115.04 A.H.D INSTALL SOLID CLASS B COVER. INSTALL CROSSING SOUTHERN BOUNDARY LINE MATCH INTO EXISTING AS SMOOTHLY AS POSSIBLE. LANDSCAPE AREA CONSTRUCT SIDE ENTRY PIT OVER EXISTING SW CONSTRUCT SIDE ENTRY PIT OVER EXISTING SW ADJUST EXISTING PIT LID —— TO NEW PAVEMENT MATCH INTO EXISTING AS SMOOTHLY AS POSSIBLE. LEVEL AND INSTALLED SOUTHERN BOUNDARY LINE CLASS D GALV GRATE MATCH INTO EXISTING — AS SMOOTHLY AS POSSIBLE. COVER. ADJUST EXISTING PIT LID TO NEW PAVEMENT LEVEL AND INSTALLED CLASS D GALV GRATE COVER. BUS DROP-OFF SHELTER. REFER TO STRUCTURAL DRAWINGS FOR DETAILS. CONSTRUCT GRATED SIDE ENTRY PIT OVER EXISTING SW DRAIN IN POSITION SHOWN. — BREAKUP AND REMOVE WE EXISTING FENCE. | INSTALL RAISED | --PEDESTRIAN CROSSING. REFER TO TYPICAL DETAIL ON SHEET C08. ADVERTISED PLAN SCALE 1:200 (A3) SCALE 1:100 (A1)



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REVISIONS

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CIVIL	PLANS	
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R McEWAN / M MASINA	NOV 2023	
Drawn	Scale	
M MASINA	1:100 @ A1 SHEET	



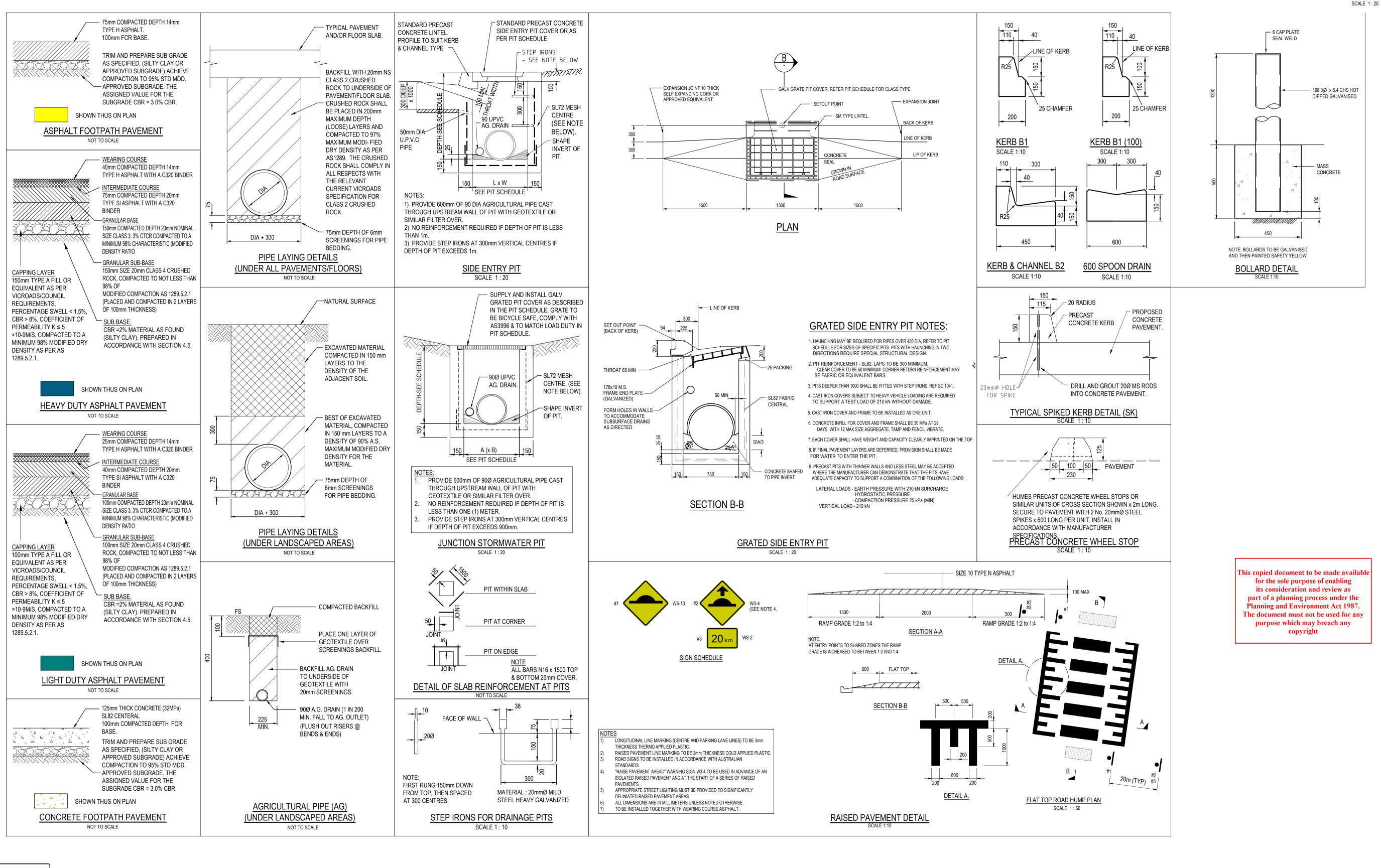
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503 SPRINGVALE ROAD, VERMONT SOUTH,	
VICTORIA 3133	
CITY OF WHITEHORSE	

CIVIL LAYOUT PLAN - SHEET 3 of 5 07 23 24 C07

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Drawing No :

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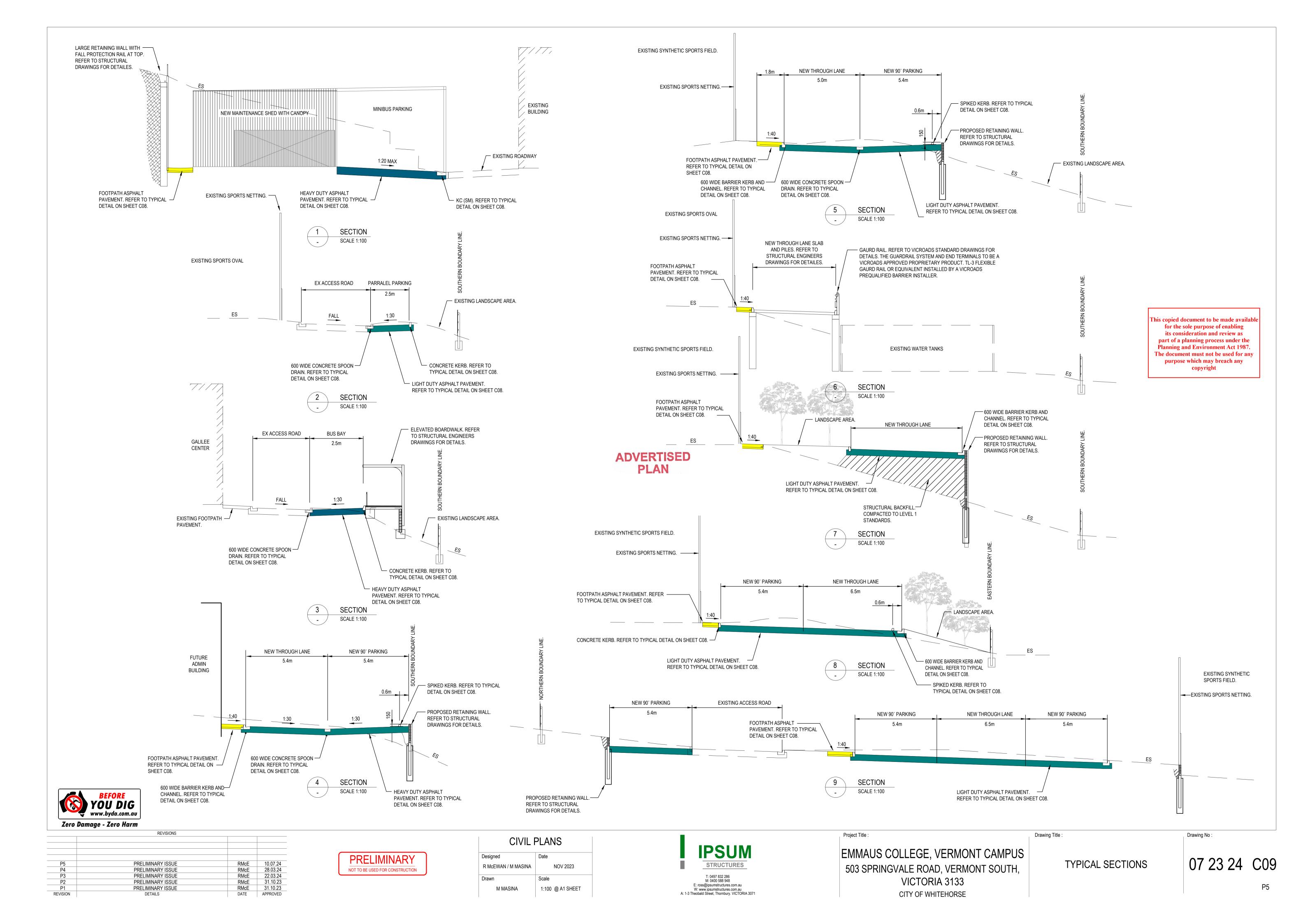
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503 SPRINGVALE ROAD, VERMONT SOUTH,
VICTORIA 3133
CITY OF WHITEHORSE

CIVIL DETAILS

Drawing Title:

07 23 24 C08

Drawing No:



	PIT SCHEDULE												
No.	PIT TYPE	FROM	PIT SIZE LENGTH x WIDTH	DIA. IN	IL IN	DIA. OUT	IL OUT	COVER LEVEL	DEPTH TO BASE	REMARKS			
E1	EX SIDE ENTRY PIT	-	EX	225	111.60	Ex300	Ex111.57	Ex112.22	Ex0.65	CONNECT INTO EXISTING PIT AND ADJUST EXISTING SIDE ENTRY PIT LID TO NEW RADUS SHOWN.			
P1	SIDE ENTRY PIT	E1	900x600	-	-	225	112.36	113.26	0.90	CONSTRUCT SIDE ENTRY PIT. INSTALL CLASS C SOLID COVER. REFER TO TYPICAL DETAIL ON SHEET C08.			
E2	EX JUNCTION PIT	-	EX	300	111.60	Ex300	Ex110.44	Ex112.86	Ex2.42	CONNECT INTO EXISTING PIT.			
P2	GRATED SIDE ENTRY PIT	E2	900x600	-	-	300	111.66	112.56	0.90	CONSTRUCT GRATED SEP PIT. INSTALL CLASS D GALV. GRATED COVER. REFER TO TYPICAL DETAIL ON SHEET C08.			
P3	GRATED SIDE ENTRY PIT	EX	900x600	-	-	300	110.90	111.70	0.80	CONSTRUCT GRATED SEP PIT. INSTALL CLASS D GALV. GRATED COVER. REFER TO TYPICAL DETAIL ON SHEET C08.			
P4	GRATED SIDE ENTRY PIT	EX	900x600	-	-	300	109.50	110.40	0.90	CONSTRUCT GRATED SEP PIT. REFER TO TYPICAL DETAIL ON SHEET C08. INSTALL CLASS D GALV. GRATED COVER.			
E3	EX JUNCTION PIT	-	Ex	300	104.97	Ex525	Ex104.75	Ex105.75	Ex1.00	CONNECT INTO EXISTING PIT.			
P5	GRATED SIDE ENTRY PIT	EX	900x900	-	-	300	106.30	109.25	2.95	CONSTRUCT GRATED SEP PIT. INSTALL CLASS D GALV. GRATED COVER. REFER TO TYPICAL DETAIL ON SHEET C08.			
P6	GRATED JUNCTION PIT	OP	900x600	-	-	300	108.56	109.46	0.90	CONSTRUCT GRATED JUNCTION PIT. INSTALL CLASS D GALV. GRATED COVER. REFER TO TYPICAL DETAIL ON SHEET C08.			
P7	SIDE ENTRY PIT	-	900x600	Ex300	Ex108.50	Ex300	Ex108.50	110.00	1.50	CONSTRUCT SIDE ENTRY PIT. INSTALL CLASS B GALV GRATED COVER.REFER TO TYPICAL DETAIL ON SHEET C03.			
P8	GRATED JUNCTION PIT	-	900x900	Ex525	108.30	Ex525	108.30	110.58	2.28	CONSTRUCT GRATED JUNCTION PIT. INSTALL CLASS D GALV. GRATED COVER. REFER TO TYPICAL DETAIL ON SHEET C08.			
E4	EX JUNCTION PIT	-	Ex	300	110.21	150	Ex110.14	Ex111.25	Ex1.11	CONNECT INTO EXISTING PIT.			
P9	GRATED JUNCTION PIT	E4	900x600	-	-	300	111.60	112.50	0.90	CONSTRUCT GRATED JUNCTION PIT. INSTALL CLASS D GALV GRATED COVER.REFER TO TYPICAL DETAIL ON SHEET C08.			
P10	EX SIDE ENTRY PIT	-	Ex900x600	-	-	Ex	Ex	Ex	Ex113.85	ADJUST EXISTING SIDE ENTRY PIT LID TO NEW RADUS SHOWN.			
P11	GRATED JUNCTION PIT	-	900x600	Ex300	Ex112.93	Ex300	Ex112.93	114.40	1.47	CONSTRUCT GRATED JUNCTION PIT. INSTALL CLASS D GALV GRATED COVER. REFER TO TYPICAL DETAIL ON SHEET C08.			
E5	EX JUNCTION PIT	-	Ex	Ex300	Ex114.34	300	114.14	115.95	Ex1.81	CONNECT INTO EXISTING PIT. ADJUST EXISTING GRATE TO NEW PAVEMENT LEVEL.			
P12	GRATED JUNCTION PIT	E5	450x450	150	114.43	225	114.43	114.96	0.53	CONSTRUCT GRATED JUNCTION PIT. INSTALL CLASS B GALV GRATED COVER. REFER TO TYPICAL DETAIL ON SHEET C08.			
P13	GRATED JUNCTION PIT	-	350x350	-	-	150	114.70	115.00	0.30	CONSTRUCT GRATED JUNCTION PIT. INSTALL CLASS B GALV GRATED COVER. REFER TO TYPICAL DETAIL ON SHEET C08.			
P14	SIDE ENTRY PIT	-	900x600	Ex225	Ex115.87	300	115.90	117.40	1.53	CONSTRUCT SIDE ENTRY PIT. INSTALL CLASS C SOLID COVER. REFER TO TYPICAL DETAIL ON SHEET C08.			
P15	JUNCTION PIT	P14	900x600	Ex300	Ex119.75	300	119.70	121.00	1.30	CONSTRUCT JUNCTION PIT. INSTALL CLASS B GALV GRATED COVER. REFER TO TYPICAL DETAIL ON SHEET C03.			

COVER CLASS	PIT & COVER TYPE									
A = PEDESTRIAN AREAS	PP	MCI	GM	RC	TG	PT	PG			
B = LIGHT DUTY C = MEDIUM DUTY D = HEAVY DUTY E = EXTRA HEAVY DUTY F = EXTRA HEAVY DUTY G = EXTRA HEAVY DUTY	PREFORMED PITS	METAL & CONCRETE INFILL PIT COVERS	GALVANISED METAL GRATES	PRECAST CONCRETE PIT COVERS	TRENCH GRATES	PRECAST TRENCHES	POLYPROPYLENE GRATED COVERS			
SUPPLIERS	PR	필발	GR. GR.	PRI	TRI	R	G.R.			
GATIC Ph. 1800 335 303		0	0		0	0				
S.V.C. Ph. 03 9580 6644	0	0	0	0	0	0				
WEBFORGE Ph. 03 8551 2414		0	0		0					
HK METAL PRODUCTS Ph. 03 9580 0146			0		0					
AUS PITS Ph. 03 5222 4526	0	0	0	0	0	0				
EVERHARD Ph. 13 19 26	0	0	0		0	0	0			
ACO POLYCRETE Ph. 1300 765 226	0	0	0		0	0				
R&S GRATING Ph. 03 9238 5888		0	0		0					

ALL PIT COVERS AND GRATES MUST COMPLY WITH AS3996-2006 "ACCESS COVERS AND GRATES" SUPPLIERS OF PIT COVERS & PREFORMED PITS

ORIFICE CALCULATIONS

PEAK ALLOWABLE DISCHARGE

Qp= 4.50 l/s PSD ORIFICE DIAMETER Head= 0.45m

 $d = 21.9 * \sqrt{[PSD / \sqrt{(H)}]}$

 $d = 21.9 * \sqrt{(4.5 / \sqrt{(0.45)})}$

d = 58.5

ADOPT DIAMETER OF BURIED PIPE ORIFICE OUTLET AS 58mm

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ADVERTISED

DRAINAGE NOTES

THE CONTRACTOR IS TO READ THESE DETAILS IN CONJUNCTION WITH ALL RELEVANT COUNCIL STANDARD DETAILS AND SPECIFICATIONS.

ALL PITS AND PIT COVERS ARE TO BE CONSTRUCTED AS DETAILED AND IN ACCORDANCE WITH COUNCIL STANDARDS. ALL PVC PIPES ARE TO BE SEWER CLASS UPVC UNLESS NOTED OTHERWISE.

ALL RCP PIPES ARE TO BE RRJ CLASS 2 CONCRETE PIPES

ALL PITS DEEPER THAN 900mm ARE TO BE FITTED WITH STEP IRONS REFER TYPICAL DETAIL.

ALL PITS ARE TO BE CONSTRUCTED OF CONCRETE. 7) ALL GRATED PITS ARE TO BE FITTED WITH BIKE SAFE GRATES.

> COMMENCEMENT OF WORKS. 9) ALL GRATED PITS ARE TO BE HOT DIPPED GALVANISED

8) CONTRACTOR TO CONFIRM EXISTING INVERT LEVEL OF KERB AND CHANNEL PRIOR TO



RMcE 10.07.24
RMcE 28.03.24
RMcE 22.03.24
RMcE 31.10.23
RMcE 31.10.23
DATE APPROVED PRELIMINARY ISSUE PRELIMINARY ISSUE PRELIMINARY ISSUE PRELIMINARY ISSUE PRELIMINARY ISSUE

REVISIONS

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION

CIVIL PLANS	
Designed	Date
R McEWAN / M MASINA	NOV 2023
Drawn	Scale
M MASINA	1:100 @ A1 SHEET



EMMAUS COLLEGE, VERMONT CAMPUS DRAINAGE LONGITUDINAL SECTIONS 503 SPRINGVALE ROAD, VERMONT SOUTH, VICTORIA 3133 CITY OF WHITEHORSE

AND PIT SCHEDULE

Drawing Title:

Drawing No :

07 23 24 C10