

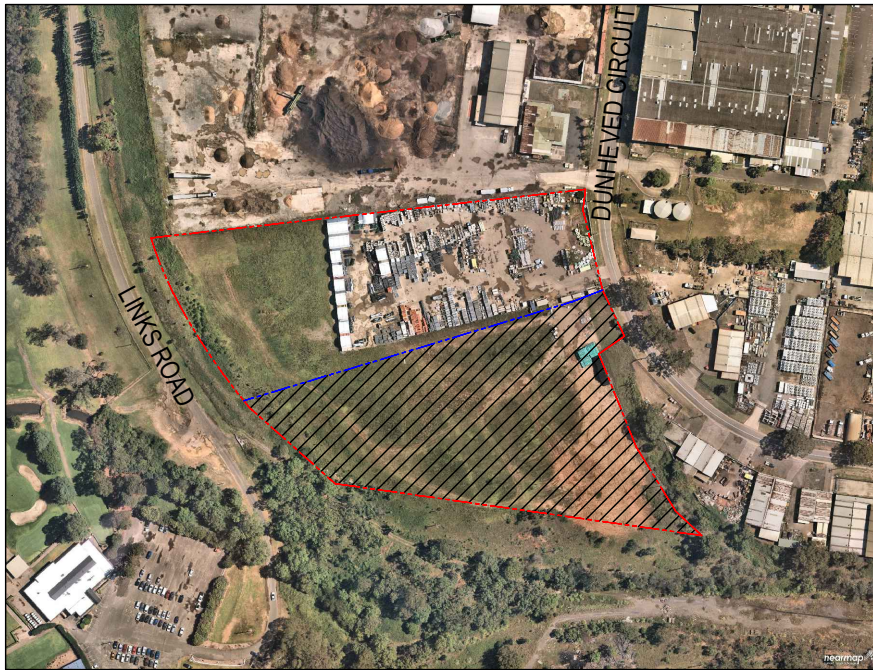
PIPE MAKERS

75-87 DUNHEVED CIRCUIT

ST MARYS NSW 2760

CIVIL DRAWING LIST

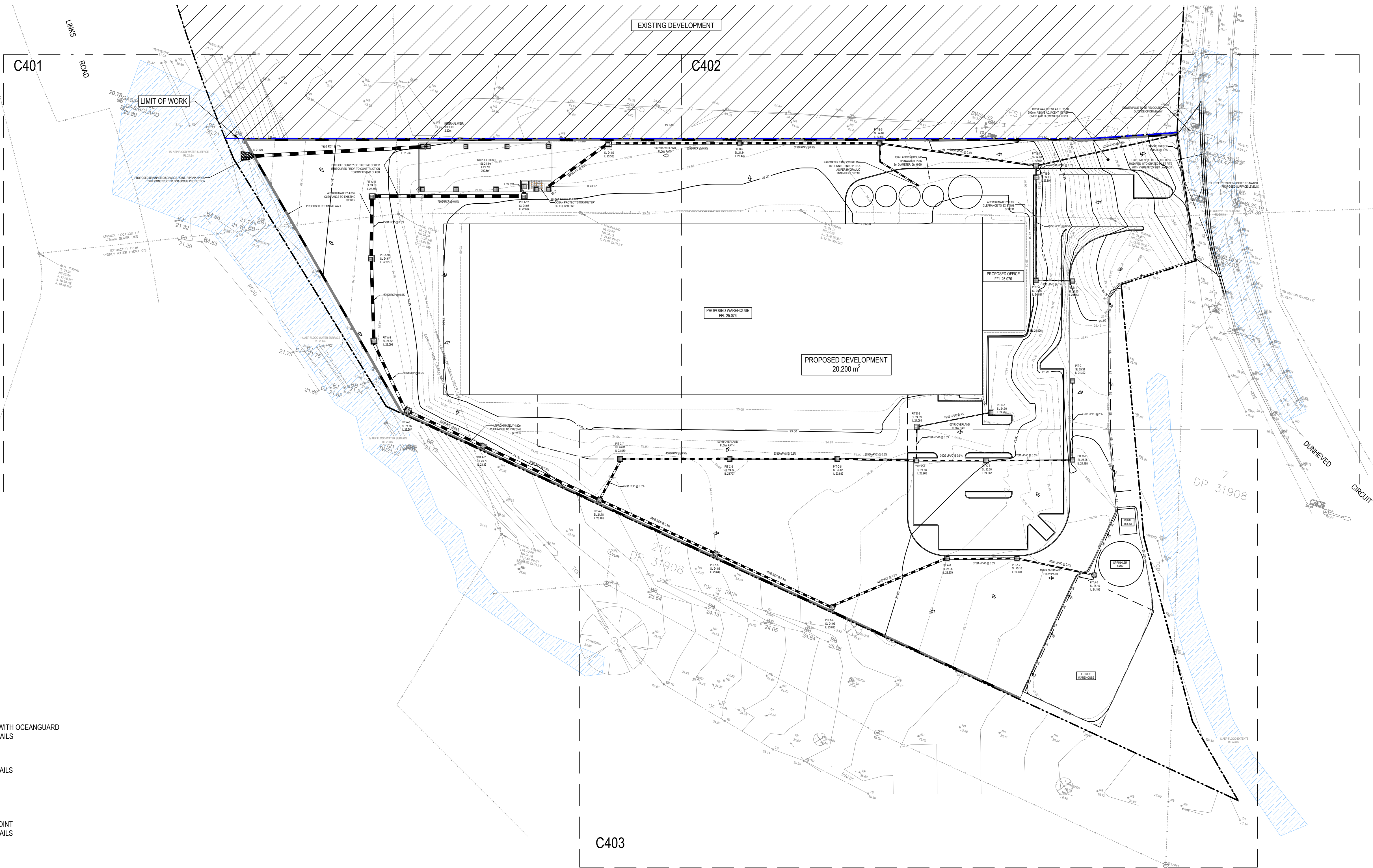
C000	COVER SHEET
C001	STANDARD NOTES
C101	SITE PLAN
C210	EROSION & SEDIMENT CONTROL
C401	DRAINAGE LAYOUT - SHEET 1 OF 3
C402	DRAINAGE LAYOUT - SHEET 2 OF 3
C403	DRAINAGE LAYOUT - SHEET 3 OF 3
C404	DRAINAGE DETAILS
C405	OSD TANK DETAILS
C421	DRAINS CATCHMENT PLAN
C422	MUSIC CATCHMENT PLAN





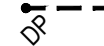
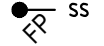
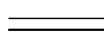


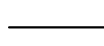

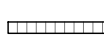
LOCALITY PLAN
NTS

REVISIONS:					SCALE BAR		<div><div><div></div></div><div>van der Meer Consulting</div><div>van der meer</div></div> <div>LEVEL 6, 39 CHANDOS STREET ST LEONARDS NSW 2065 Telephone 61-2-9436 0433 Fax 61-2-9436 1370</div> <div>www.vandermeer.com.au van der Meer (NSW) Pty Ltd A.B.N. 56 158 266 301</div>		CLIENT EMKC LEVEL 1, 140 BOURKE STREET MELBOURNE, VIC 3000		PROJECT TITLE PIPE MAKERS 75-87 DUNHEVED CIRCUIT ST MARYS, NSW 2760		DRAWING STATUS APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION			
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B UPDATED ADDRESS A FOR DEVELOPMENT APPLICATION					LO		12.05.21				DATE 12.05.21		SHEET SIZE A1			
No. REVISION DESCRIPTION					DRAWN		DATE		JOB No. SY202-159		DRAWING No. C000		REVISION B			

GENERAL NOTES				GENERAL EARTHWORKS				UTILITY SERVICES				PAVEMENT				CONCRETE															
G1.	ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BMS OR SSM.			E1.	THE SITE OF THE WORKS SHALL BE PREPARED BY STRIPPING ALL EXISTING TOPSOIL, FILL AND VEGETATION.			S1.	CONDUITS TO BE PROVIDED FOR WATER AND ENERGY AUTHORITIES, TELSTRA AND OTHER SERVICES AS REQUIRED.			F1.	SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.			C1.	ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND OTHER RELEVANT AUSTRALIAN STANDARDS.														
G2.	CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.			E2.	COMPACT SUBGRADE TO 98% OF THE STANDARD MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1289 TESTS E.1.1, OR E.1.2. THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED TO DETECT ANY SOFT OR WET AREAS WHICH SHOULD BE LOCALLY EXCAVATED AND BACK FILLED WITH SELECTED MATERIAL. THE BACK FILLING MATERIAL SHALL BE IMPORTED GRANULAR FILL OF LOW PLASTICITY, PREFERABLY CRUSHED SANDSTONE, AND TO BE PLACED IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS AND COMPACTED TO 98% OF STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT. SITE WORKS ARE TO BE BATTERED TO ADJACENT PROPERTY LEVELS.			S2.	THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM SURVEY AND AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.			F2.	PAVEMENT MATERIAL SHALL CONSIST OF APPROVED OR RIPPED SANDSTONE, NATURAL GRAVEL OR FINE CRUSH ROCK AS PER COUNCIL SPECIFICATION.			C2.	CONCRETE SHALL BE SUPPLIED BY AN APPROVED MANUFACTURER IN ACCORDANCE WITH AS1379.														
G3.	ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL'S SPECIFICATIONS AND THE DIRECTIONS OF THE SUPERINTENDENT.			E3.	NO STORMWATER IS TO POND ON ADJOINING PROPERTIES. THE SITE SHALL BE GRADED AND DRAINED SO THAT STORMWATER WILL BE DIRECTED AWAY FROM THE BUILDING. PLATFORM, STORMWATER DRAINAGE SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. ALL STORMWATER RUNOFF SHALL BE GRADED AWAY FROM THE DWELLING AND DISPOSED OF VIA SURFACE CATCHDRAINS AND STORMWATER COLLECTION PITS.			S3.	VAN DER MEER CANNOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS, ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN ARISING FROM ANY CAUSE WHATSOEVER.			F3.	PAVEMENT MATERIALS SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150mm AND NOT LESS THEN 75mm COMPACTED THICKNESS. PAVEMENT MATERIALS SHALL BE SIZED AND OF A STANDARD OUTLINED IN AS1141.			C3.	CONCRETE SHALL HAVE THE FOLLOWING PARAMETERS:														
G4.	DIMENSIONS MUST NOT BE SCALED FROM DRAWINGS.			E4.	ENSURE ALL RETAINING WALLS ARE CONSTRUCTED WITH ADEQUATE SUBSOIL DRAINAGE.			S4.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.			F4.	CRUSHED OR RIPPED SANDSTONE SHALL BE MINUS 75mm NOMINAL SIZE DERIVED FROM SOUND, CLEAN SANDSTONE FREE FROM OVERBURDEN, CLAY SEAMS, SHALE AND OTHER DELETERIOUS MATERIAL.			<table><tr><th>ELEMENT</th><th>SLUMP (mm)</th><th>AGGREGATE</th><th>fc (MPa)</th><th>OTHER REQ</th></tr><tr><td>EXTERNAL VEHICLE SLAB</td><td>+ 80</td><td>20</td><td>N32</td><td>(1)</td></tr></table>			ELEMENT	SLUMP (mm)	AGGREGATE	fc (MPa)	OTHER REQ	EXTERNAL VEHICLE SLAB	+ 80	20	N32	(1)			
ELEMENT	SLUMP (mm)	AGGREGATE	fc (MPa)	OTHER REQ																											
EXTERNAL VEHICLE SLAB	+ 80	20	N32	(1)																											
G5.	CONTRACTOR TO ENSURE THAT ALL ROADWORKS ARE SMOOTHLY TRANSITIONED TO EXISTING LEVELS FREE FROM ABRUPT CHANGES.							S5.	CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ON SITE INCLUDING HAND EXCAVATION WHERE NECESSARY.			F5.	PAVEMENT MATERIALS SHALL BE COMPACTED BY SUITABLE MEANS TO SATISFY THE FOLLOWING MINIMUM SPECIFICATIONS (AS PER AS1289.52)			+ DENOTES SLUMP AT PLANT (1) DENOTES MAXIMUM BASE SHRINKAGE STRAIN 600 x 10 ⁻⁶ AT 56 DAYS (TO AS 1012 PART 13)															
G6.	THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR. FURTHER, THE LOCATION OF RECOVERY MARKS SHOULD BE VERIFIED AND CONFIRMED BY THE CONTRACTOR AND ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF WORK.							S6.	CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION OR FUTURE WORKS.			DESCRIPTION MODIFIED DENSITY RATIO SUB-BASE 98% MDD BASE COURSE 98% MDD ASPHALTIC CONCRETE 97% MDD			C4.	SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.															
G7.	AT COMPLETION OF WORKS ALL ADJOINING DISTURBED AREAS ARE TO BE REINSTATED TO THE 'AS FOUND' CONDITION.							S7.	CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.			AND SUBJECT TO COUNCIL'S CONSTRUCTION SPECIFICATION.			C5.	BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY.															
G8.	THE CONTRACTOR SHALL ENSURE ALL AREAS DRAIN WITH A MINIMUM FALL OF 1% (1:100) GRADE TO OUTLETS UNLESS INDICATED OTHERWISE. NO WORKS SHALL CAUSE PONDING OF STORMWATER ON UPSTREAM PROPERTIES OR CONCENTRATE RUNOFF ONTO DOWNSTREAM PROPERTIES.							S6.	CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION OR FUTURE WORKS.			F6.	TESTING FOR EACH LAYER SHALL BE UNDERTAKEN BY A N.A.T.A. REGISTERED LABORATORY IN ACCORDANCE WITH AS1289, AT NOT MORE THAN 50m INTERVALS AND A MINIMUM OF TWO PER LAYER. FURTHER FREQUENCY OF TESTING SHALL BE NO LESS THAN THAT REQUIRED BY AS3978-1996.			C6.	HOLES, CHASES OR EMBEDMENT ITEMS, INCLUDING PIPES AND CONDUITS SHALL NOT BE PLACED IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.														
G9.	THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, ELECTRICAL, RETICULATION, WATER & SEWER DRAWINGS AND SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.			GW1.	ALL GROUND WORKS & EXCAVATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT.				TELSTRA - DUTY OF CARE NOTE: TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR UPHOLD THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY.			REINFORCED CONCRETE BLOCKWORK			C7.	CONDUITS, PIPES AND LIKE SHALL NOT BE PLACED WITHIN THE CONCRETE COVER, NOR DISPLACE THE REINFORCEMENT LAYERS.															
G10.	THE CONTRACTOR SHALL ENSURE THAT ALL PAVEMENTS GRADE EVENLY BETWEEN NOMINATED RL'S ON PLAN AND NO POND OF WATER OCCURS.			GW2.	SEPARATE AND REMOVE ALL TOPSOIL, NON SOIL MATERIAL, CONCRETE, VEGETATION, BRICKBATS, TIMBER, ROOT AFFECTED SOIL AND EXISTING FILL, STORE TOPSOIL IF REQUIRED.				THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POT HOLING TO IDENTIFY IT'S LOCATION. TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.			M1.			CONCRETE BLOCKS SHALL BE BORAL 'CORE FILL BLOCKS', DOUBLE-U TYPE, OR SIMILAR APPROVED.																
G11.	ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METERS.			GW3.	ALL EXCAVATIONS SHALL BE FINISHED CLEAN AND HORIZONTAL AND SHALL NOT UNDERMINE FOOTINGS, WALLS etc...				ELECTRICAL & GAS NETWORK: A MINIMUM OF 30 DAYS PRIOR TO COMMENCEMENT OF EXCAVATION WORKS THE SUBCONTRACTOR MUST CONTACT DIAL BEFORE YOU DIG.			M2.			MINIMUM DURABILITY REQUIREMENTS:																
G12.	DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.			GW4.	PROOF ROLL WITH AN 8 TONNE ROLLER, REPLACE ANY SOFT MATERIAL WITH APPROVED FILL AND RE-COMPACT. GEOTECHNICAL ENGINEER TO APPROVE.				RETAINING WALL GENERAL			M3.			MINIMUM STRENGTH REQUIREMENTS:																
G13.	WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.			GW5.	THE FILL IS TO BE PLACED AND COMPACTED IN LAYERS OF MAXIMUM LOOSE THICKNESS 300mm.				GR1.			BASE MATERIAL SHALL BE COMPACTED TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY (SMDD) WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SMOC) DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1. MINIMUM ALLOWABLE BEARING PRESSURE OF 150 kPa. GEOTECHNICAL ENGINEER EMPLOYED BY CONTRACTOR TO INSPECT AND CONFIRM.			M4.			MINIMUM DURABILITY REQUIREMENTS:													
G14.	THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER BUT IS NOT AN AUTHORIZATION FOR AN EXTRA. ANY EXTRAS INVOLVED MUST BE TAKEN UP WITH THE SUPERINTENDENT BEFORE THE WORK COMMENCES.			GW6.	TOP LAYER OF PAVED AREAS TO BE COMPACTED TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY. GEOTECHNICAL ENGINEER TO VERIFY.				GR2.			DRAINAGE MATERIAL WITHIN AND IMMEDIATELY BEHIND THE WALL SHALL BE 12-20mm CLEAN AGGREGATE. DRAINAGE MATERIAL TO EXTEND A MINIMUM 300 mm BEHIND WALL. COMPACT DRAINAGE MATERIAL. ALTERNATIVELY, USE NO PINES CONCRETE, AS FOLLOWS:- <ul style="list-style-type: none">• CONCRETE STRENGTH M15• 210kg/m3 PORTLAND CEMENT• MAXIMUM AGGREGATE SIZE 20 mm.• W/C RATIO 0.45 TO 0.55.• DENSITY 1600 TO 2000 kg/m3.			M5.			ALL CORES SHALL BE GROUTED UNLESS NOTED OTHERWISE.													
G15.	THE CONTRACTOR IS TO EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER AS REQUIRED FOR ALL GEOTECHNICAL ASPECTS OF THE BUILDING WORKS. REFER TO FOUNDATION, GROUNDWORKS AND RETENTION/SHORING NOTES. REFER ALSO TO THE GEOTECHNICAL REPORT FOR THIS PROJECT.			GW7.	ALL PERMANENT EMBANKMENTS TO BE COMPACTED IN 200 mm LAYERS AS PER NOTE GW6 AND AT A MAXIMUM SLOPE OF 1 VERTICAL TO 2.5 HORIZONTAL UNLESS NOTED OTHERWISE. SHOULD DRAINAGE BE REQUIRED THEN SUBMIT DETAILS TO THE ENGINEER.				GR3.			INFILL SOIL SHALL BE CLASS 1 CONTROLLED FILL TO AS4678, OR AS SPECIFIED ON THE DRAWINGS. UNSUITABLE SOILS, SUCH AS HEAVY CLAYS OR ORGANIC SOILS WITH HIGH PLASTICITY, SHALL NOT BE USED IN THE REINFORCED SOIL MASS.			M6.			GROUT FOR CORE FILLING SHALL BE IN ACCORDANCE WITH AS3600, WITH THE FOLLOWING PROPERTIES: <ul style="list-style-type: none">• STRENGTH GRADE S20• MAX. AGGREGATE SIZE 10mm• SLUMP 230mm ± 25mm• MIN. CEMENT CONTENT 300 kg/m³													
SUBGRADE PREPARATION				GW8.	ALL GROUND WORKS SHALL BE TESTED BY AN APPROVED GEOTECHNICAL ENGINEER TO A LEVEL 1 STANDARD IN ACCORDANCE WITH AS 3798 - 1996.				GR4.			SPREAD BACKFILL IN UNIFORM LIFTS OF 200 mm UNCOMPACTED THICKNESS. COMPACT TO MINIMUM 95% OF SMDD. COMPACT WITHIN 1.0 m BEHIND THE WALL SHALL BE ACCOMPLISHED BY USING A HAND-OPERATED PLATE COMPACTOR AND SHALL BEGIN BY RUNNING THE PLATE DIRECTLY ON THE BLOCK, THEN COMPACTING IN PARALLEL PATHS, PROGRESSIVELY AWAY FROM THE WALL FACE.			M7.			PROVIDE VERTICAL CONTROL JOINTS IN MASONRY WALLS AS FOLLOWS :													
RW1. REMOVE ALL VEGETATION, TOPSOIL AND DELETERIOUS MATERIAL FROM AREA OF PROPOSED BUILDING PLATFORM AND PAVEMENTS.				GW9.	ALL EXCAVATIONS TO BE INSPECTED AT REGULAR INTERVALS BY A GEOTECHNICAL ENGINEER.				GR5.			WHERE ROADWAYS OR BUILDING STRUCTURES ARE LOCATED ABOVE THE REINFORCED ZONE, COMPACT TO 98% SMDD WITHIN 2% OF SOMC DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1. COMPACTION TESTING SHALL BE TAKEN AT 1.2 m BEHIND THE WALL.			M8.			PROVIDE CLEANOUT OPENINGS AT THE BASE OF ALL REINFORCED CORES AND REMOVE ALL MORTAR PROTRUSIONS BEFORE GROUTING. ADDITIONAL CLEANOUT OPENINGS SHALL BE PROVIDED ABOVE EACH HORIZONTAL POUR BREAK.													
RW2. PROOF ROLL EXPOSED SUB GRADE TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD MAXIMUM DRY DENSITY (SMDD), DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1.				GW10.	REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM SETOUT OF BUILDINGS, CARPARKS ETC.										M9.			MAXIMUM HEIGHT OF POUR FOR GROUTING SHALL NOT EXCEED 3.6m FOR 190 BLOCKWORK, AND 0.8m FOR 140 BLOCKWORK. STOP POUR 50mm BELOW TOP OF BLOCK TO PROVIDE KEY FOR SUBSEQUENT POUR.													
RW3. REMOVE ANY SOFT, HEAVING, WET OR UNSTABLE AREAS IDENTIFIED DURING PROOF ROLLING AND REPLACE USING SELECT IMPORTED FILL COMPACTED IN LAYERS NOT EXCEEDING 200mm MEASURED LOOSE TO ACHIEVE A MINIMUM 98% STANDARD MAXIMUM DRY DENSITY.				GW11.	THE LEVELS SHOWN ARE ONLY RELEVANT TO THE PLAN UPON WHICH THEY ARE SHOWN.										M10.			GROUT SHALL BE THOROUGHLY COMPACTED IN THE CORES BY RODDING OR MECHANICAL VIBRATION.													
RW4. NOTE THAT THE SITE IS UNDERLAIN BY EXISTING SERVICES AND COMPACTION UTILISING VIBRATION MAY NOT BE SUITABLE IN THE VICINITY OF UNDERGROUND SERVICES.				GW12.	ALL CONTOURS AND LEVELS USED TO PRODUCE EARTHWORK DETAILS HAVE BEEN BASED ON SURVEYOR AND ARCHITECTS SURVEY INFORMATION.													C15.			CONCRETE SAMPLES AND TESTS										
RW5. ANY FILL REQUIRED TO RAISE LEVELS TO BULK EARTHWORKS TO WITHIN 50mm OF NOMINATED LEVELS IS TO BE APPROVED GRANULAR MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 300mm MEASURED LOOSE TO 98% STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC).				GW13.	ALL FINISHED FLOOR LEVELS ARE TO BE CONFIRMED BY ARCHITECT.																ARRANGE FOR A NATA REGISTERED TESTING LABORATORY TO TAKE SAMPLES OF AND TEST CONCRETE FOR COMPRESSION, FLEXURAL TENSILE STRENGTH (SLABS ON GROUND ONLY) AND SLUMP.										
RW6. THE CONTRACTOR IS TO PROVIDE CERTIFICATION TO THE EFFECT THAT EARTHWORKS COMPACTION TO 98% STANDARD MAXIMUM DRY DENSITY, (AS 1289 E1.1, E4.1) HAS BEEN ACHIEVED, UNLESS OTHERWISE AGREED IN WRITING BY SITE SUPERINTENDENT.				GW14.	ALL EXISTING SERVICES ARE TO BE CAPPED OFF PRIOR TO ANY WORKS.																COMPRESSION TEST SAMPLES SHALL CONSIST OF 3 STANDARD CYLINDERS (4 STANDARD CYLINDERS FOR POST-TENSIONED CONCRETE), TESTED FOR COMPRESSIVE STRENGTH AS FOLLOWS:										
RW7. THE CONTRACTOR IS TO PROVIDE TO THE SITE SUPERINTENDENT A SURVEY CONFIRMATION FROM A REGISTERED SURVEYOR, CONFIRMING BULK EARTHWORKS LEVELS AS WITHIN +/-50mm OF LEVELS NOMINATED.				GW15.	A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CONTRACTOR, THE GEOTECHNICAL ENGINEER, AND THE EARTHWORKS CONTRACTOR TO UNDERSTAND POTENTIAL DIFFICULTIES AND TO ORGANISE TESTING PROCEDURES. THE CONTRACTOR SHALL CONFIRM TO THE ENGINEER THAT THE MEETING HAS BEEN HELD.																ONE (1) CYLINDER AT 3 DAYS FOR POST-TENSIONED CONCRETE ONLY. ONE (1) CYLINDER AT 7 DAYS. TWO (2) CYLINDERS AT 28 DAYS.										
RW8. SUBGRADE REPLACEMENT MATERIAL IS TO CONSIST OF CLEAN, UNCONTAMINATED, WELL-GRADED MATERIAL WITH A MAXIMUM PARTICLE SIZE OF 75mm, WITH 80% LESS THAN 20mm, AND A SOAKED C.B.R. GREATER THAN 10% AND A PLASTICITY INDEX LESS THAN 12.																					THE MINIMUM NUMBER OF DAILY SAMPLES SHALL BE AS FOLLOWS:										
RW9. BACK FILLING FOR SERVICE TRENCHES AND REMOVED SERVICES OR PITS OR FOUNDATIONS IS TO USE APPROVED WELL-GRADED GRANULAR MATERIAL WITH MINIMUM VOIDS, (EITHER SELECT INSITU OR IMPORTED FILL), COMPACTION AS SPECIFIED ABOVE.																					IN COLUMNS/WALLS: 1 SAMPLE PER TRUCK										
RW10. ALL EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AS3798-1996: GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMENTS.																					ALL OTHER CONCRETE OF ANY ONE TYPE AS FOLLOWS: 1 TRUCK PER DAY - 1 SAMPLE 2 TO 5 TRUCKS PER DAY - 2 SAMPLES 6 TO 10 TRUCKS PER DAY - 3 SAMPLES 10 TO 20 TRUCKS PER DAY - 4 SAMPLES FOR EACH ADDITIONAL 10 TRUCKS PER DAY, 1 SAMPLE.										
REVISIONS:				SCALE BAR												CLIENT EMKC LEVEL 1, 140 BOURKE STREET MELBOURNE, VIC 3000				PROJECT TITLE PIPE MAKERS 75-87 DUNHEVED CIRCUIT ST MARYS, NSW 2760				DRAWING STATUS APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION							
																ARCHITECT -				DRAWING TITLE STANDARD NOTES				PROJECT LEADER MC				DESIGNER LO		SIGNATURE	
B				UPDATED ADDRESS				LO				12.05.21								DRAFTSPERSON LO				SCALE		DATE 12.05.21		SHEET SIZE A1			
A				FOR DEVELOPMENT APPLICATION				LO				06.05.21																			
No.				REVISION DESCRIPTION				DRAWN				DATE																			
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LEGEND

-  STORMWATER PIT FITTED WITH OCEANGUARD
REFER DWG C404 FOR DETAILS
-  STORMWATER PIPE
REFER DWG C404 FOR DETAILS
-  DOWNPIPE CONNECTION
-  SUBSOIL DRAIN & FLUSH POINT
REFER DWG C404 FOR DETAILS
-  CONCRETE KERB
-  1% AEP FLOOD EXTENTS
-  PROPOSED RETAINING WALL
-  MAJOR CONTOUR (0.25m INTERVALS)
-  MINOR CONTOUR (0.05m INTERVALS)
-  TRENCH GRATE

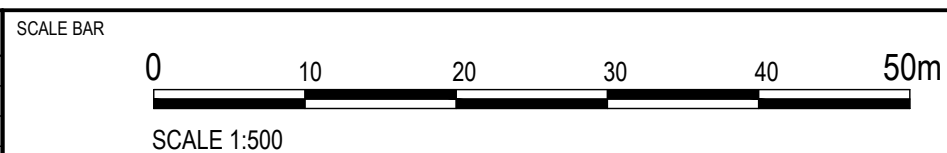
WARNING

BWARE 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.

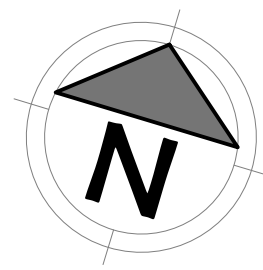
PLAN

SCALE 1:500

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
D	UPDATED TANK LOCATIONS	LO	17.05.21
C	UPDATED ADDRESS	LO	12.05.21
B	FOR DEVELOPMENT APPLICATION	LO	06.05.21
A	PRELIMINARY	LO	03.05.21



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IF IN DOUBT - ASK.

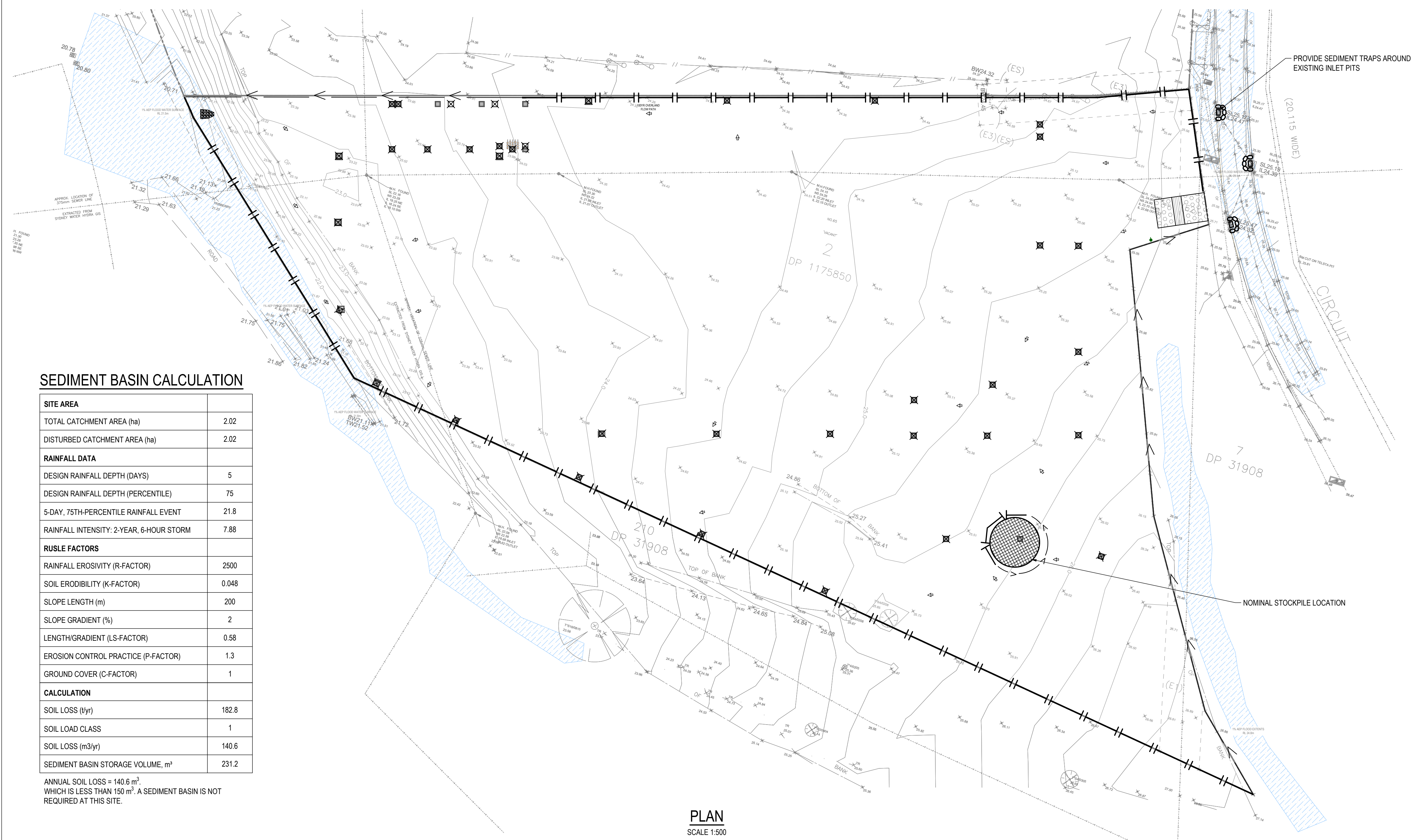


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www.vandermeer.com.au
van der Meer (NSW) Pty Ltd
A.B.N. 56 158 266 301

CLIENT
EMKC
LEVEL 1, 140 BOURKE STREET
MELBOURNE, VIC 3000
ARCHITECT
-

PROJECT TITLE
PIPE MAKERS
75-87 DUNHEVED CIRCUIT
ST MARYS, NSW 2760
DRAWING TITLE
SITE PLAN

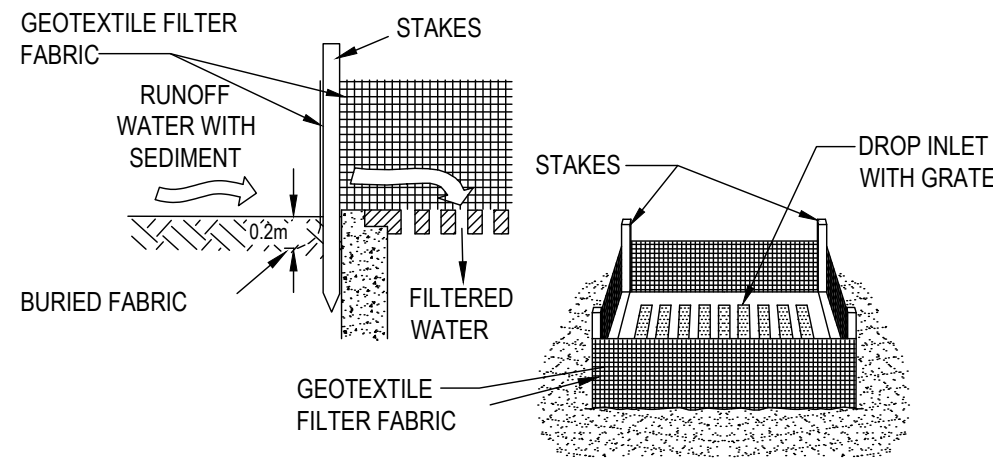
DRAWING STATUS			
APPROVAL ISSUE			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
MC	LO		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
LO	AS SHOWN	17.05.21	A1
JOB No.	DRAWING No.	REVISION	
SY202-159	C101		D



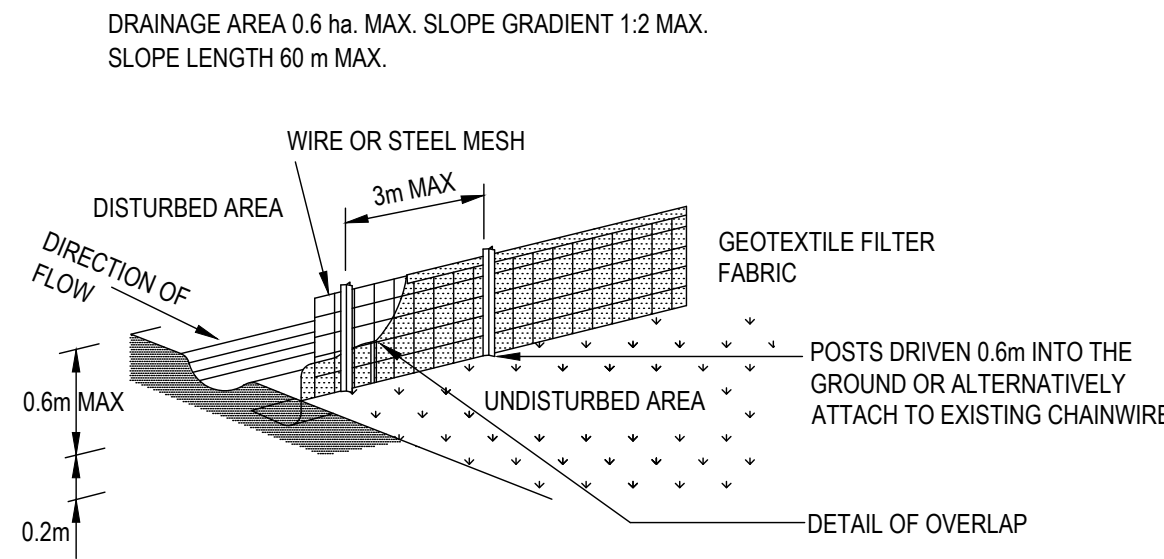
SEDIMENT BASIN CALCULATION

SITE AREA	
TOTAL CATCHMENT AREA (ha)	2.02
DISTURBED CATCHMENT AREA (ha)	2.02
RAINFALL DATA	
DESIGN RAINFALL DEPTH (DAYS)	5
DESIGN RAINFALL DEPTH (PERCENTILE)	75
5-DAY, 75TH-PERCENTILE RAINFALL EVENT	21.8
RAINFALL INTENSITY: 2-YEAR, 6-HOUR STORM	7.88
RUSLE FACTORS	
RAINFALL EROSIIVITY (R-FACTOR)	2500
SOIL ERODIBILITY (K-FACTOR)	0.048
SLOPE LENGTH (m)	200
SLOPE GRADIENT (%)	2
LENGTH/GRADIENT (LS-FACTOR)	0.58
EROSION CONTROL PRACTICE (P-FACTOR)	1.3
GROUND COVER (C-FACTOR)	1
CALCULATION	
SOIL LOSS (t/yr)	182.8
SOIL LOAD CLASS	1
SOIL LOSS (m3/yr)	140.6
SEDIMENT BASIN STORAGE VOLUME, m³	231.2

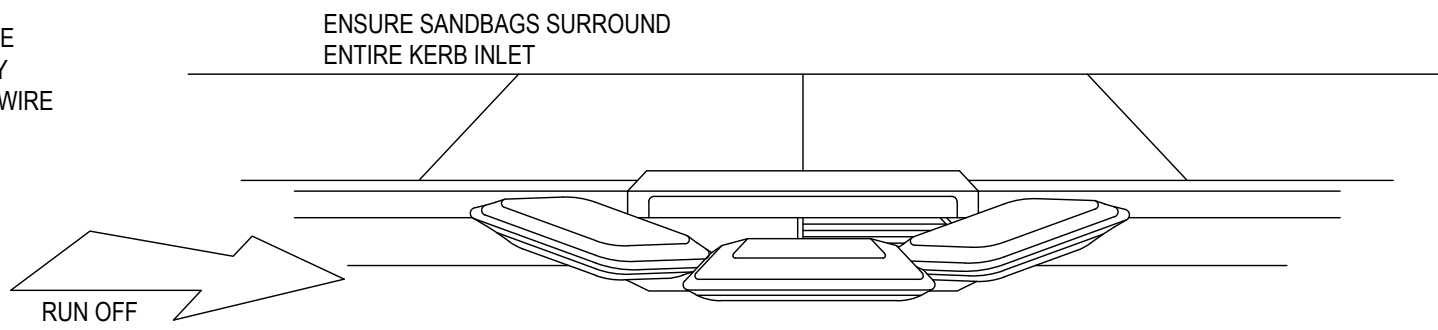
ANNUAL SOIL LOSS = 140.6 m³.
WHICH IS LESS THAN 150 m³. A SEDIMENT BASIN IS NOT
REQUIRED AT THIS SITE.



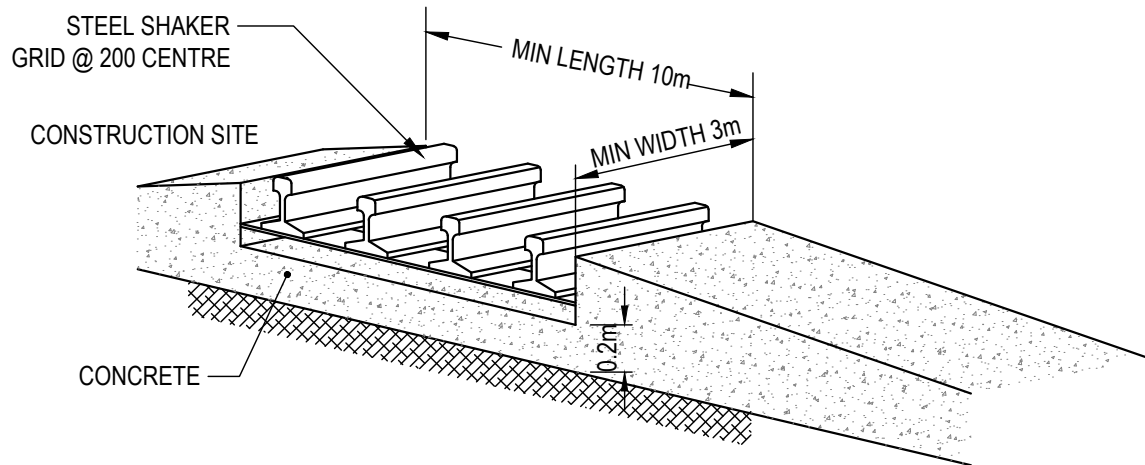
**GEOTEXTILE FILTER FABRIC INLET
SEDIMENT TRAP**
N.T.S.



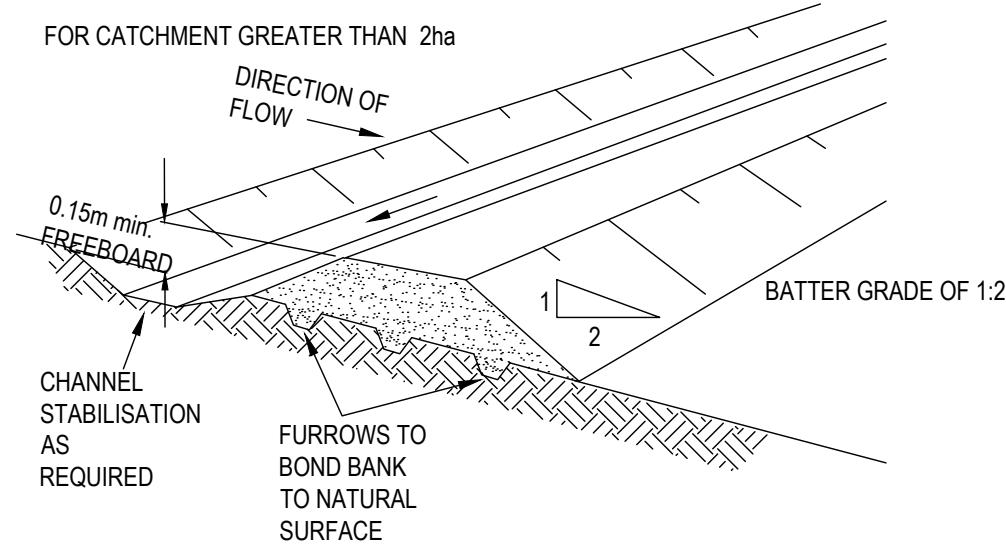
SEDIMENT CONTROL FENCE
N.T.S.



SANDBAG KERB INLET SEDIMENT TRAP
N.T.S.



**TEMPORARY CONSTRUCTION
VEHICLE EXIT**
N.T.S.



DIVERSION BANK AND CHANNEL
N.T.S.

EROSION AND SEDIMENT NOTES

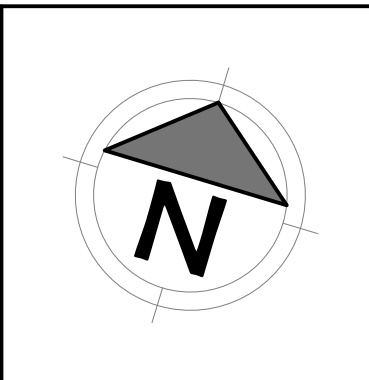
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL DETAILS AS SHOWN
- THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF COUNCIL PRIOR TO THE COMMENCEMENT OF AND DURING CONSTRUCTION. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT COUNCIL'S APPROVAL. ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH STANDARDS OUTLINED IN NSW DEPARTMENT OF HOUSING'S "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTIONS".
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE LINES. THIS TOPSOIL IS TO BE RESPREAD LATER ON AREAS TO BE REVEGETATED AND STABILISED ONLY, (I.E. ALL FOOTPATHS, BATTERS, SITE REGARDING AREAS, BASINS AND CATCHDRAINS). TOPSOIL SHALL NOT BE RESPREAD ON ANY OTHER AREAS UNLESS SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT. IF THEY ARE TO REMAIN FOR LONGER THAN ONE MONTH STOCKPILES SHALL BE PROTECTED FROM EROSION BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND, IF NECESSARY, BY LOCATING BANKS OR DRAINS DOWNSTREAM OF A STOCKPILE TO RETARD SILT LADEN RUNOFF.
- THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM DEVICES SUCH THAT NO MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED OR AS DIRECTED BY THE SUPERINTENDENT OR COUNCIL.
- VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS.
- THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN (BUT NOT SATURATING) DISTURBED AREA.
- PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENTS ARE REVEGETATED OR PAVED.
- REVEGETATE ALL TRENCHES IMMEDIATELY UPON COMPLETION OF BACKFILLING.
- ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL :
A) DOWNPIPES CONNECTED
B) PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER
- SILT FENCE MAINTENANCE INSPECTION TO BE CARRIED OUT EVERY 3 MONTHS AND AFTER EACH RAINFALL EVENT.
- EROSION & SEDIMENT CONTROL SIGNAGE AVAILABLE FROM COUNCIL MUST BE ATTACHED TO THE MOST PROMINENT AVAILABLE STRUCTURE AND BE VISIBLE AT ALL TIMES WHEN ENTERING THE SITE FOR THE DURATION OF CONSTRUCTION.

LEGEND

- STORMWATER SEDIMENT TRAPS AT ALL PROPOSED PIT INLETS
- TEMPORARY CONSTRUCTION VEHICLE EXIT
- SEDIMENT CONTROL FENCE
- STOCKPILE AREA
- SANDBAG KERB INLET SEDIMENT TRAP
- DIVERSION BANK
- 1% AEP FLOOD EXTENTS

REVISIONS:			
B	UPDATED ADDRESS	LO	12.05.21
A	FOR DEVELOPMENT APPLICATION	LO	06.05.21
No.	REVISION DESCRIPTION	DRAWN	DATE

SCALE BAR			
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SCALE 1:500			
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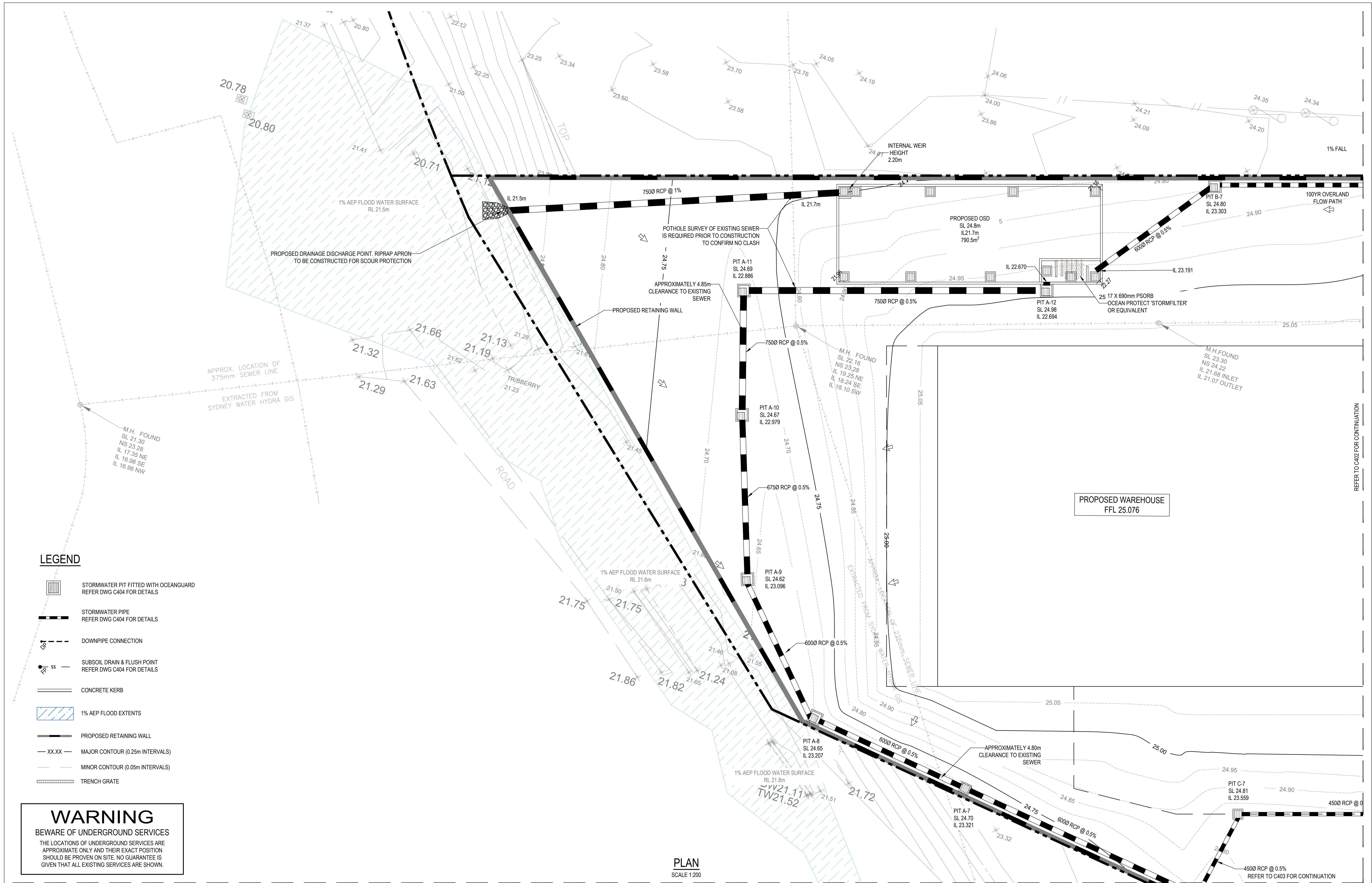
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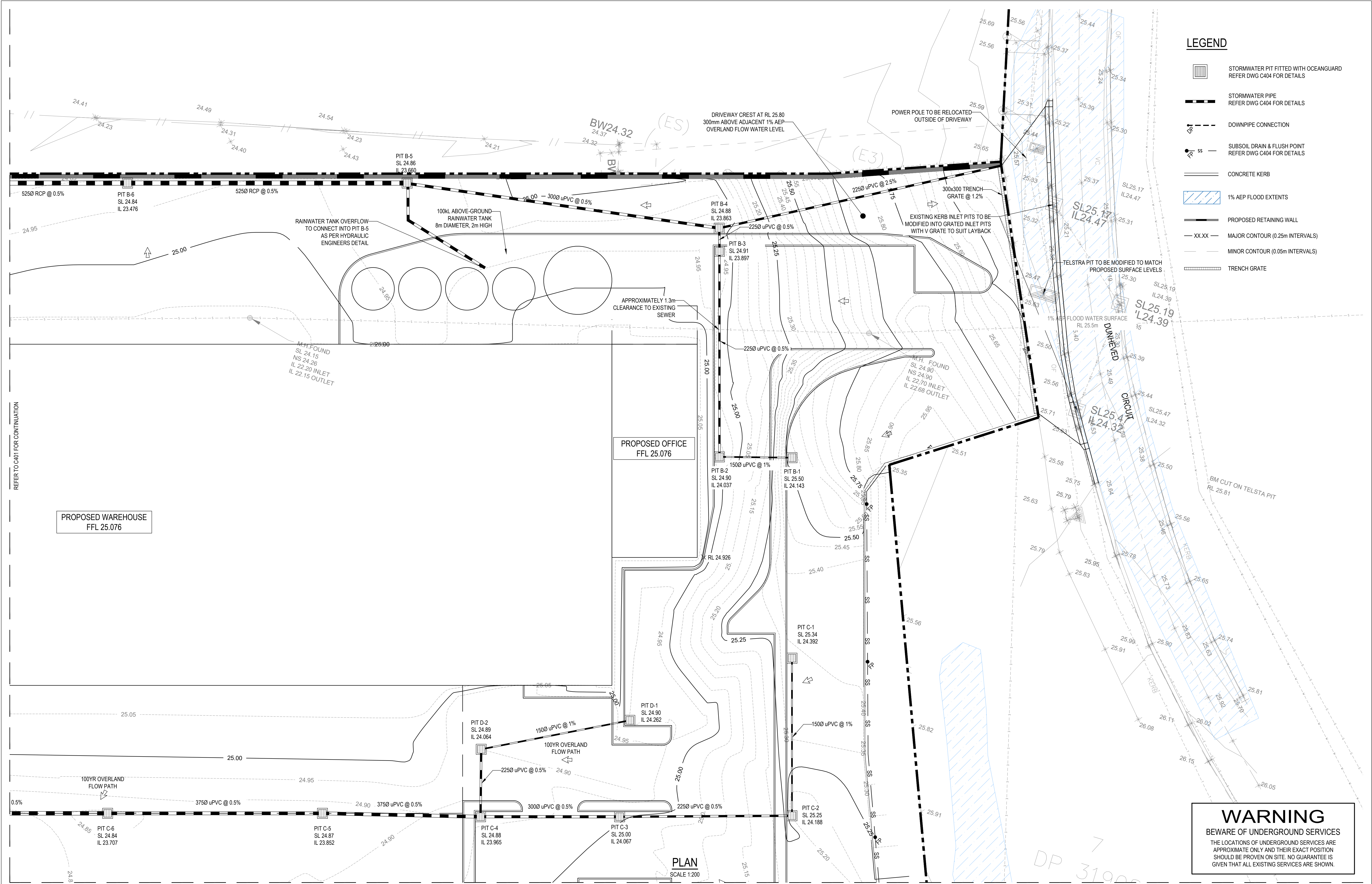
CLIENT	
EMKC	LEVEL 1, 140 BOURKE STREET MELBOURNE, VIC 3000
ARCHITECT	
-	-

PROJECT TITLE	
PIPE MAKERS	75-87 DUNHEVED CIRCUIT ST MARYS, NSW 2760
DRAWING TITLE	
EROSION AND SEDIMENT CONTROL	

DRAWING STATUS			
APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
MC	LO		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
LO	AS SHOWN	12.05.21	A1
JOB No.	DRAWING No.	REVISION	
SY202-159	C210	B	



REVISIONS:		SCALE BAR		SCALE 1:200						CLIENT		PROJECT TITLE		DRAWING STATUS	
										EMKC		PIPE MAKERS		APPROVAL ISSUE	
										LEVEL 1, 140 BOURKE STREET		75-87 DUNHEVED CIRCUIT		NOT TO BE USED FOR CONSTRUCTION	
										MELBOURNE, VIC 3000		ST MARYS, NSW 2760			
										ARCHITECT		DRAWING TITLE			
										-		DRAINAGE LAYOUT - SHEET 1 OF 3			
										-					
										JOB NO.		DRAWING NO.		REVISION	
										SY202-159		C401		D	



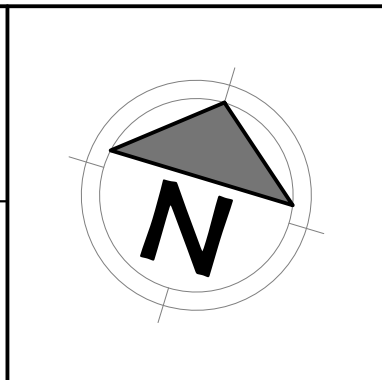
- LEGEND**
- STORMWATER PIT FITTED WITH OCEANGUARD
REFER DWG C404 FOR DETAILS
 - STORMWATER PIPE
REFER DWG C404 FOR DETAILS
 - DOWNPIPE CONNECTION
 - SUBSOIL DRAIN & FLUSH POINT
REFER DWG C404 FOR DETAILS
 - CONCRETE KERB
 - 1% AEP FLOOD EXTENTS
 - PROPOSED RETAINING WALL
 - MAJOR CONTOUR (0.25m INTERVALS)
 - MINOR CONTOUR (0.05m INTERVALS)
 - TRENCH GRATE

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.

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
D	UPDATED TANK LOCATIONS	LO	17.05.21
C	UPDATED ADDRESS	LO	12.05.21
B	FOR DEVELOPMENT APPLICATION	LO	06.05.21
A	PRELIMINARY	LO	03.05.21

SCALE BAR
0 1 2 3 4 5 10m 15 20m
SCALE 1:200

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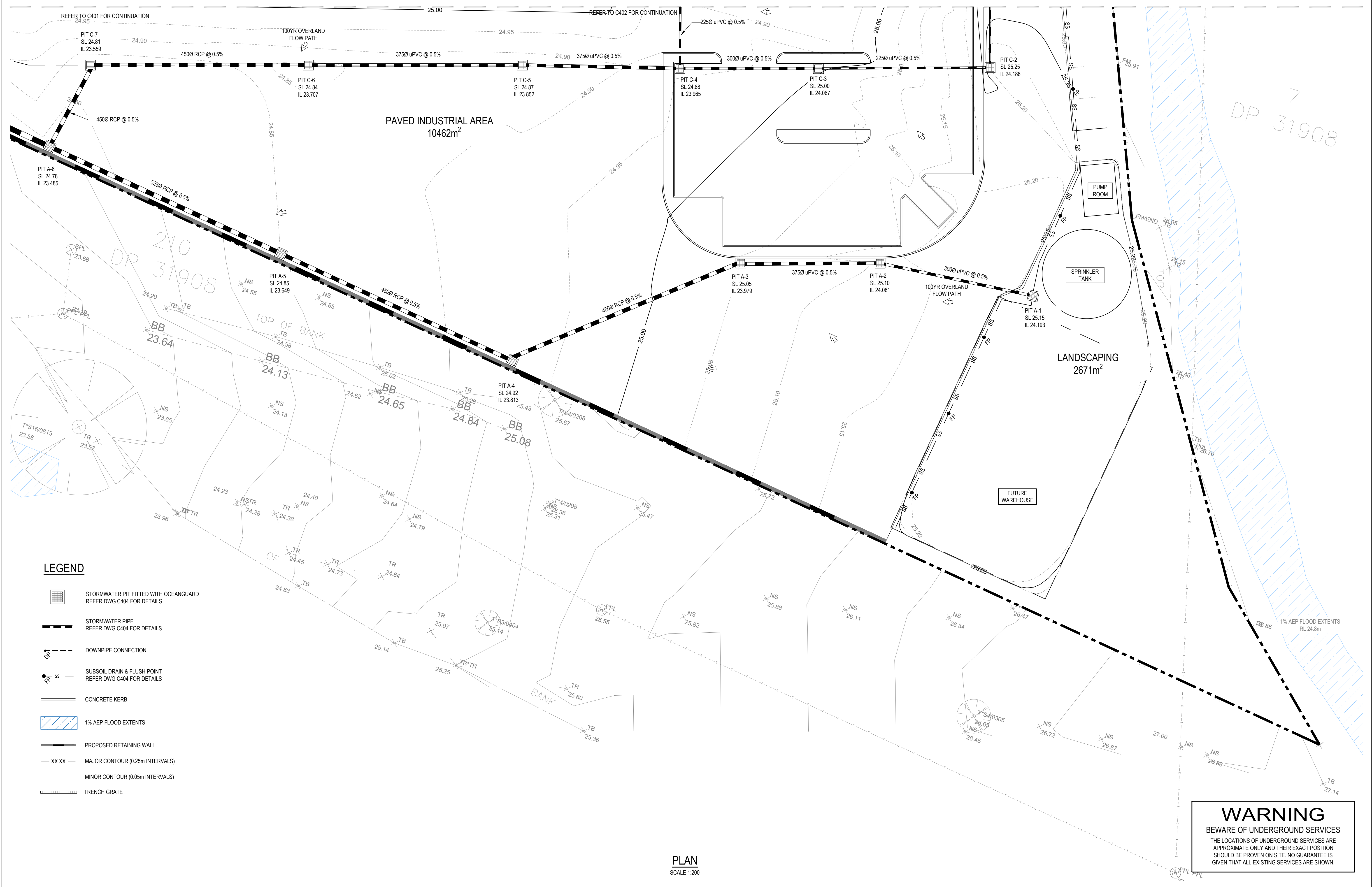
CLIENT
EMKC
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MELBOURNE, VIC 3000

ARCHITECT
-

PROJECT TITLE
PIPE MAKERS
75-87 DUNHEVED CIRCUIT
ST MARYS, NSW 2760

DRAWING TITLE
DRAINAGE LAYOUT - SHEET 2 OF 3

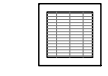

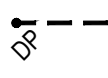
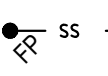



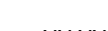


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APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER MC	DESIGNER LO	SIGNATURE	
DRAFTSPERSON LO	SCALE AS SHOWN	DATE 17.05.21	SHEET SIZE A1
JOB No. SY202-159	DRAWING No. C402	REVISION D	



PLAN

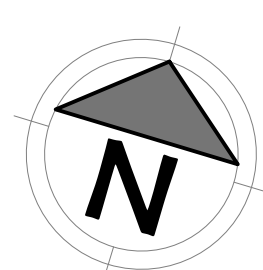
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LEGEND

-  STORMWATER PIT FITTED WITH OCEANGUARD
REFER DWG C404 FOR DETAILS
-  STORMWATER PIPE
REFER DWG C404 FOR DETAILS
-  DOWNPIPE CONNECTION
-  SUBSOIL DRAIN & FLUSH POINT
REFER DWG C404 FOR DETAILS
-  CONCRETE KERB
-  1% AEP FLOOD EXTENTS
-  PROPOSED RETAINING WALL
-  MAJOR CONTOUR (0.25m INTERVALS)
-  MINOR CONTOUR (0.05m INTERVALS)
-  TRENCH GRATE

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
D	UPDATED TANK LOCATIONS	LO	17.05.21
C	UPDATED ADDRESS	LO	12.05.21
B	FOR DEVELOPMENT APPLICATION	LO	06.05.21
A	PRELIMINARY	LO	03.05.21

SCALE BAR			
0 1 2 3 4 5 10m 15 20m			
SCALE 1:200			
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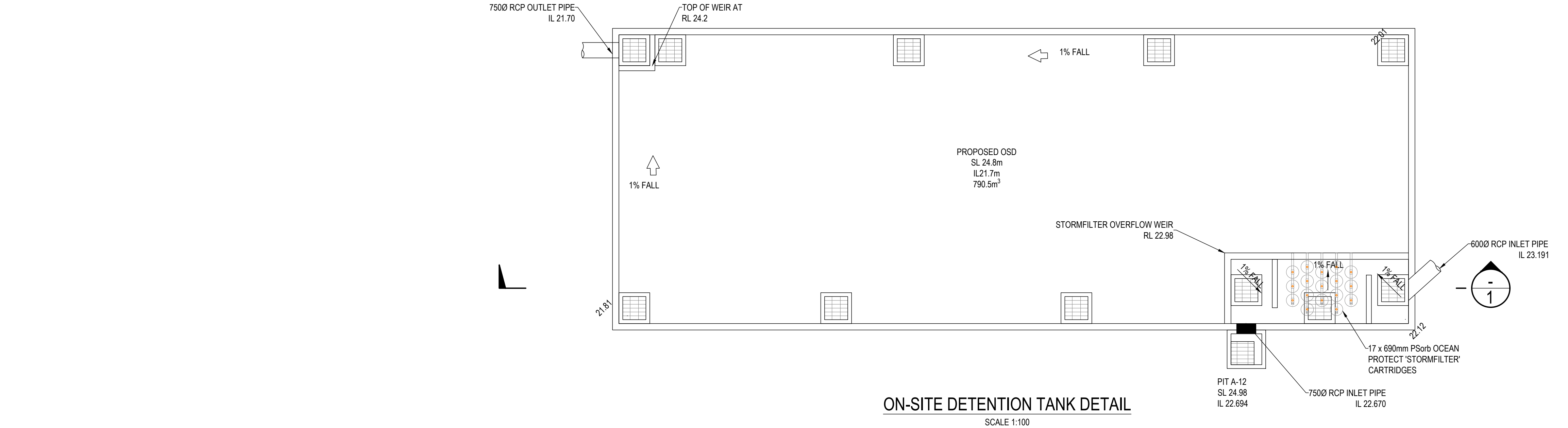
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CLIENT	
EMKC LEVEL 1, 140 BOURKE STREET MELBOURNE, VIC 3000	
ARCHITECT	
-	

PROJECT TITLE	
PIPE MAKERS 75-87 DUNHEVED CIRCUIT ST MARYS, NSW 2760	
DRAWING TITLE	
DRAINAGE LAYOUT - SHEET 3 OF 3	

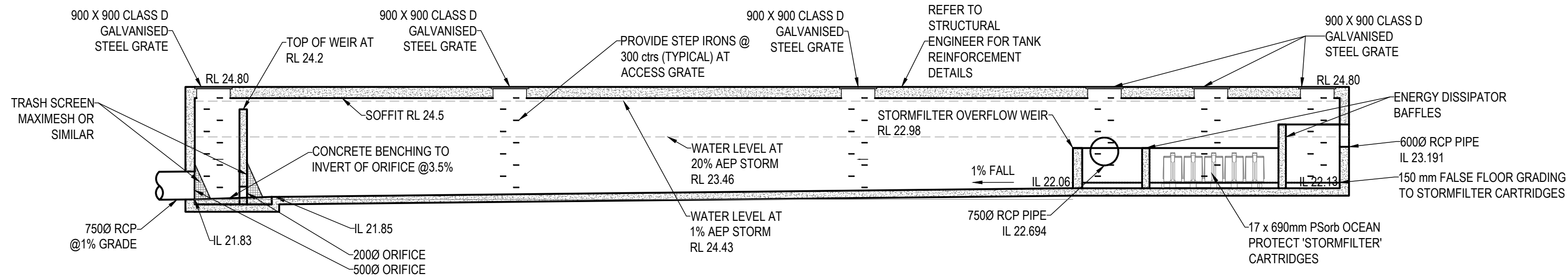
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APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION			
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DRAFTSPERSON LO	SCALE AS SHOWN	DATE 17.05.21	SHEET SIZE A1
JOB No. SY202-159	DRAWING No. C403	REVISION D	

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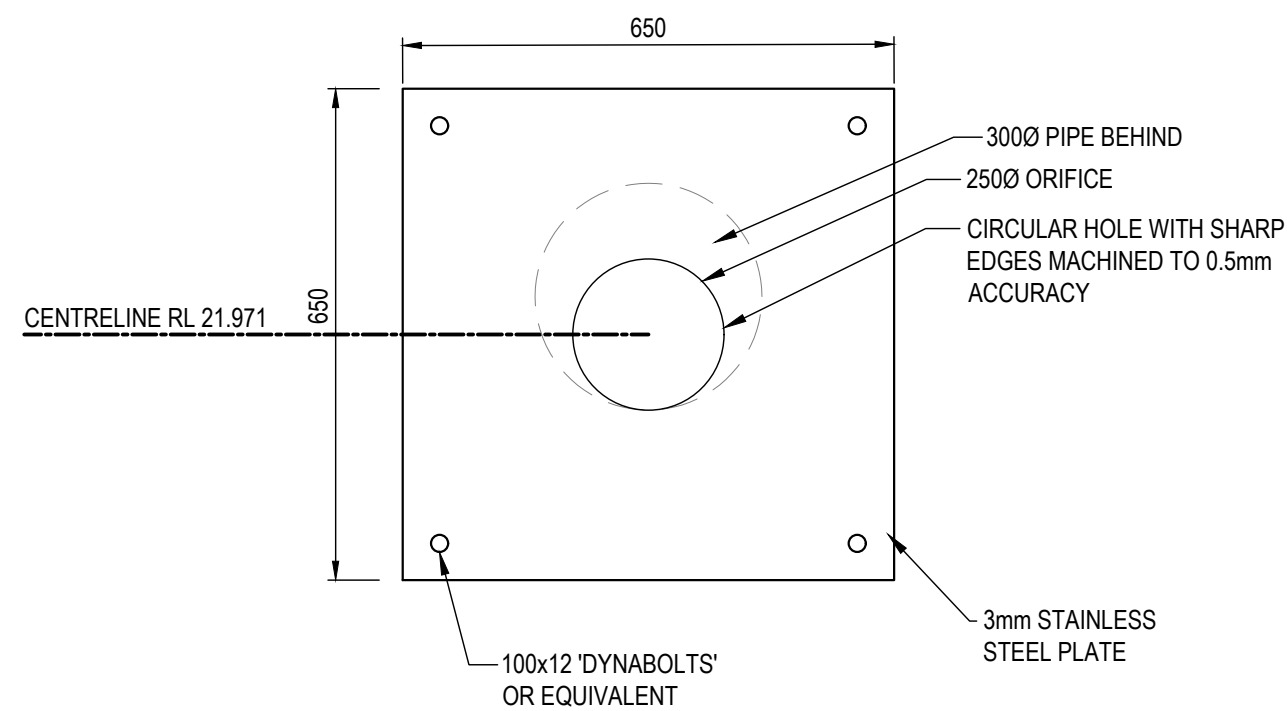
ON-SITE DETENTION TANK DETAIL

SCALE 1:100



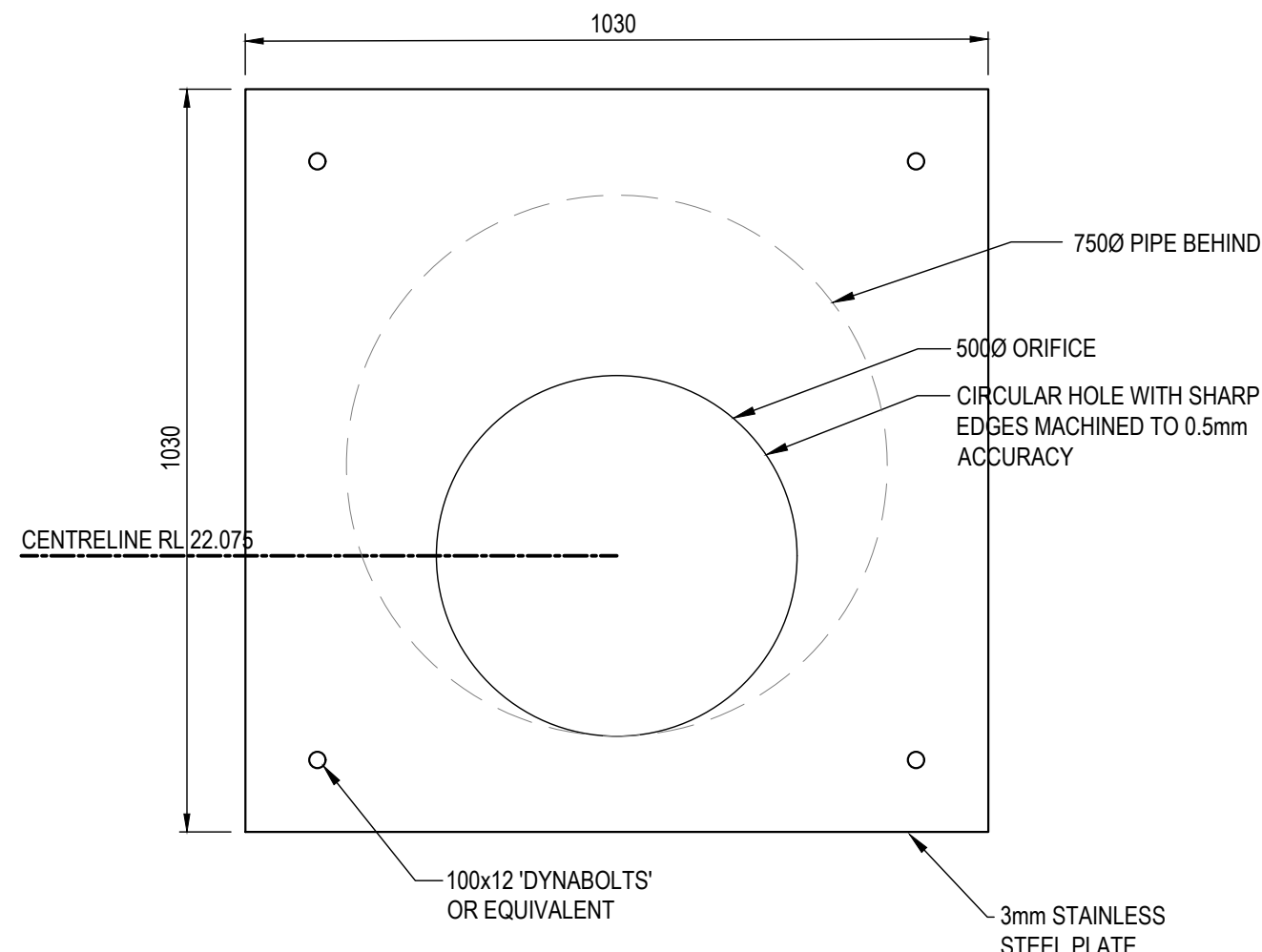
SECTION 1

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MINOR STORM ORIFICE
PLATE DETAIL

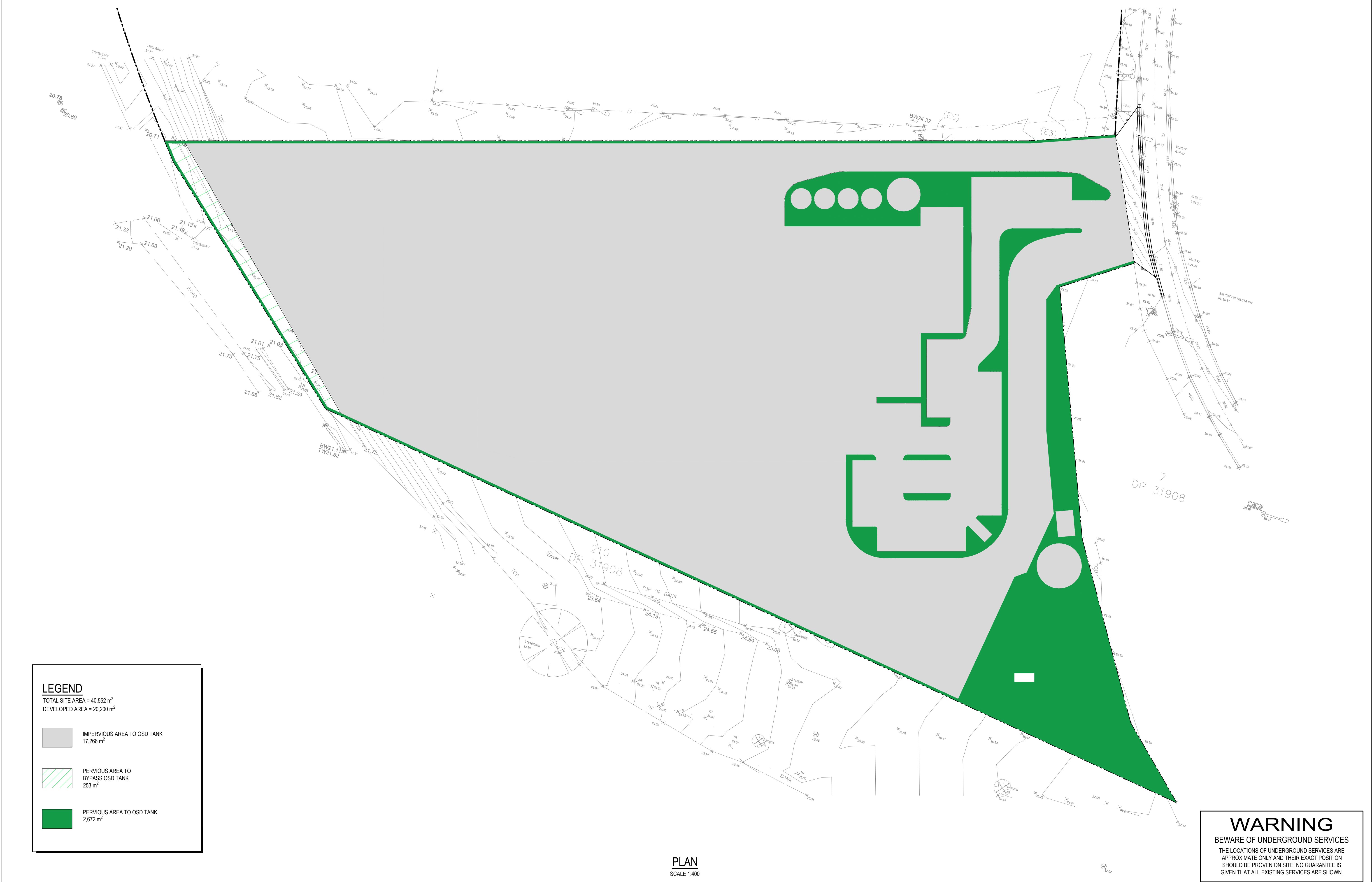
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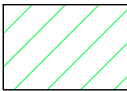

MAJOR STORM ORIFICE
PLATE DETAIL

SCALE 1:10

REVISIONS:				<div>SCALE BAR</div> <div>0 1 2 3 4 5m</div> <div>SCALE 1:10</div> <div>0 1 2 3 4 5m</div> <div>SCALE 1:100</div>		<div><div><div></div><div>van der Meer Consulting</div></div><div><div></div><div>van der meer</div></div></div> <div>LEVEL 6, 39 CHANDOS STREET ST LEONARDS NSW 2065 Telephone 61-2-9436 0433 Fax 61-2-9436 1370</div> <div>www.vandermeer.com.au van der Meer (NSW) Pty Ltd A.B.N. 56 158 266 301</div>	CLIENT		PROJECT TITLE		DRAWING STATUS		
							EMKC LEVEL 1, 140 BOURKE STREET MELBOURNE, VIC 3000		PIPE MAKERS 75-87 DUNHEVED CIRCUIT ST MARYS, NSW 2760		APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION		
B	UPDATED ADDRESS	LO	12.05.21				ARCHITECT		DRAWING TITLE		PROJECT LEADER		
A	FOR DEVELOPMENT APPLICATION	LO	06.05.21				-		OSD TANK DETAILS		DESIGNER		
											SIGNATURE		
											SCALE		
											AS SHOWN		
											DATE		
											12.05.21		
											SHEET SIZE		
											A1		
											REVISION		
											B		
											JOB No.		
											SY202-159		
											DRAWING No.		
											C405		



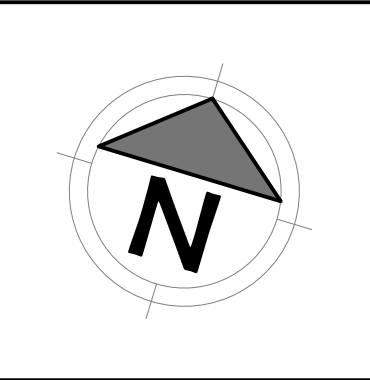
LEGEND
TOTAL SITE AREA = 40,552 m²
DEVELOPED AREA = 20,200 m²

-  IMPERVIOUS AREA TO OSD TANK
17,266 m²
-  PERVIOUS AREA TO BYPASS OSD TANK
253 m²
-  PERVIOUS AREA TO OSD TANK
2,672 m²

WARNING
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REVISIONS:			
C	UPDATED TANK LOCATIONS	LO	17.05.21
B	UPDATED ADDRESS	LO	12.05.21
A	FOR DEVELOPMENT APPLICATION	LO	06.05.21
No.	REVISION DESCRIPTION	DRAWN	DATE

SCALE BAR 0 10 20 30 40m SCALE 1:400	
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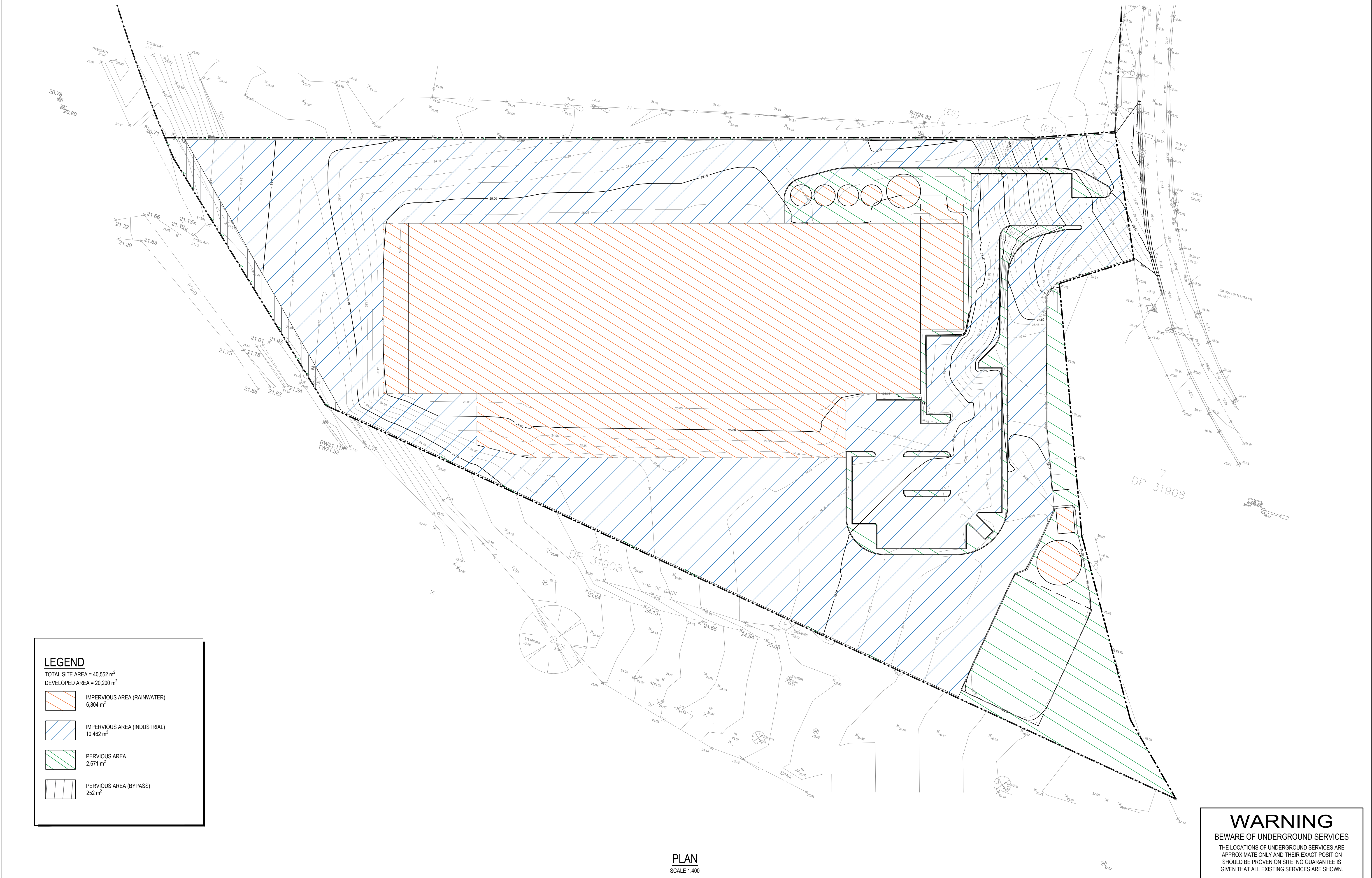
van der Meer Consulting
van der meer
LEVEL 6, 39 CHANDOS STREET
ST LEONARDS NSW 2065
Telephone 61-2-9436 0433 Fax 61-2-9436 1370

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van der Meer (NSW) Pty Ltd
A.B.N. 56 158 266 301

CLIENT	EMKC LEVEL 1, 140 BOURKE STREET ST MARYS, VIC 3000
ARCHITECT	-

PROJECT TITLE	PIPE MAKERS 75-87 DUNHEVED CIRCUIT ST MARYS, NSW 2760
DRAWING TITLE	DRAINS CATCHMENT PLAN

DRAWING STATUS APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER MC	DESIGNER LO	SIGNATURE	
DRAFTSPERSON LO	SCALE AS SHOWN	DATE 17.05.21	SHEET SIZE A1
JOB No. SY202-159	DRAWING No. C421	REVISION C	



- LEGEND**
- TOTAL SITE AREA = 40,552 m²
DEVELOPED AREA = 20,200 m²
- IMPERVIOUS AREA (RAINWATER)
6,804 m²
 - IMPERVIOUS AREA (INDUSTRIAL)
10,462 m²
 - PERVIOUS AREA
2,671 m²
 - PERVIOUS AREA (BYPASS)
252 m²

WARNING

BEWARE OF UNDERGROUND SERVICES

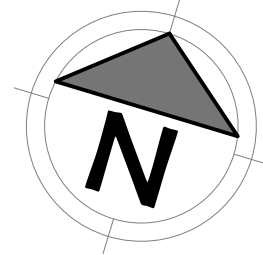
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

PLAN

SCALE 1:400

REVISIONS:			
C	UPDATED TANK LOCATIONS	LO	17.05.21
B	UPDATED ADDRESS	LO	12.05.21
A	FOR DEVELOPMENT APPLICATION	LO	06.05.21
No.	REVISION DESCRIPTION	DRAWN	DATE

SCALE BAR 0 10 20 30 40m SCALE 1:400			
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ARCHITECT	- -

PROJECT TITLE	PIPE MAKERS 75-87 DUNHEVED CIRCUIT ST MARYS, NSW 2760
DRAWING TITLE	MUSIC CATCHMENT PLAN

DRAWING STATUS APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER MC	DESIGNER LO	SIGNATURE	
DRAFTSPERSON LO	SCALE AS SHOWN	DATE 17.05.21	SHEET SIZE A1
JOB No. SY202-159	DRAWING No. C422	REVISION C	