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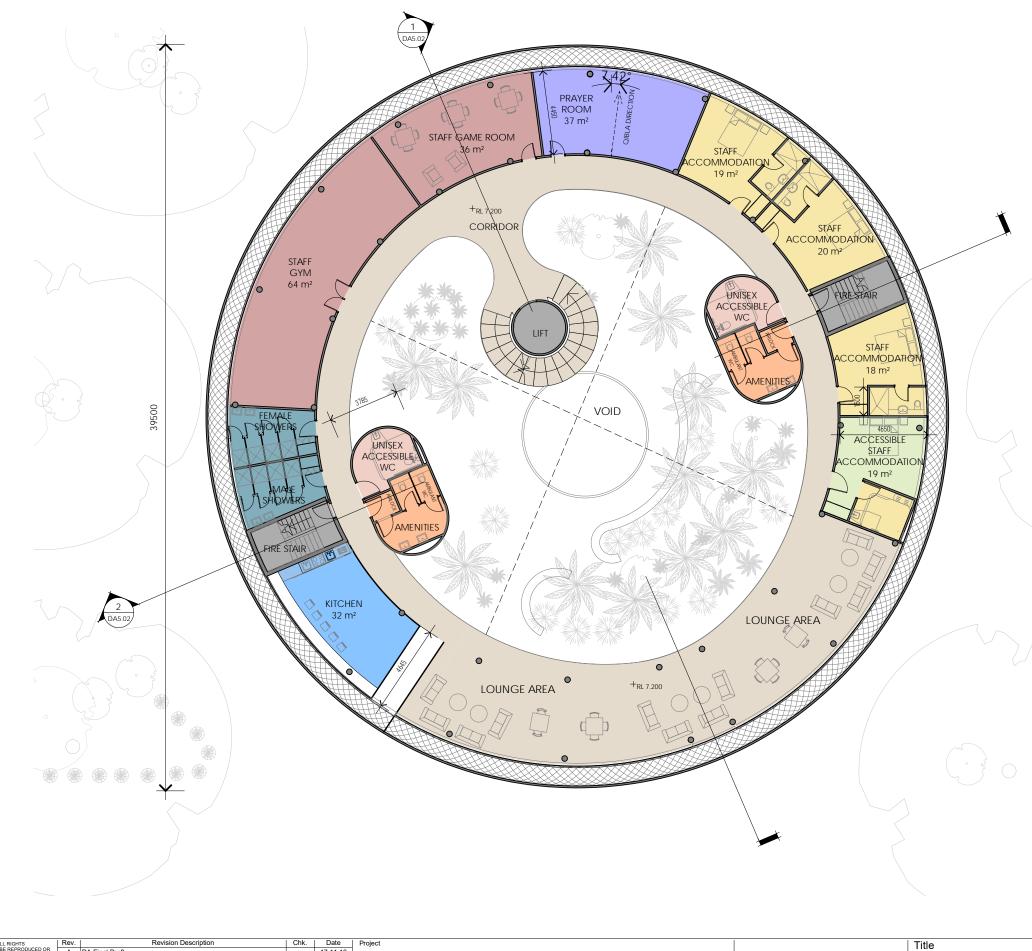
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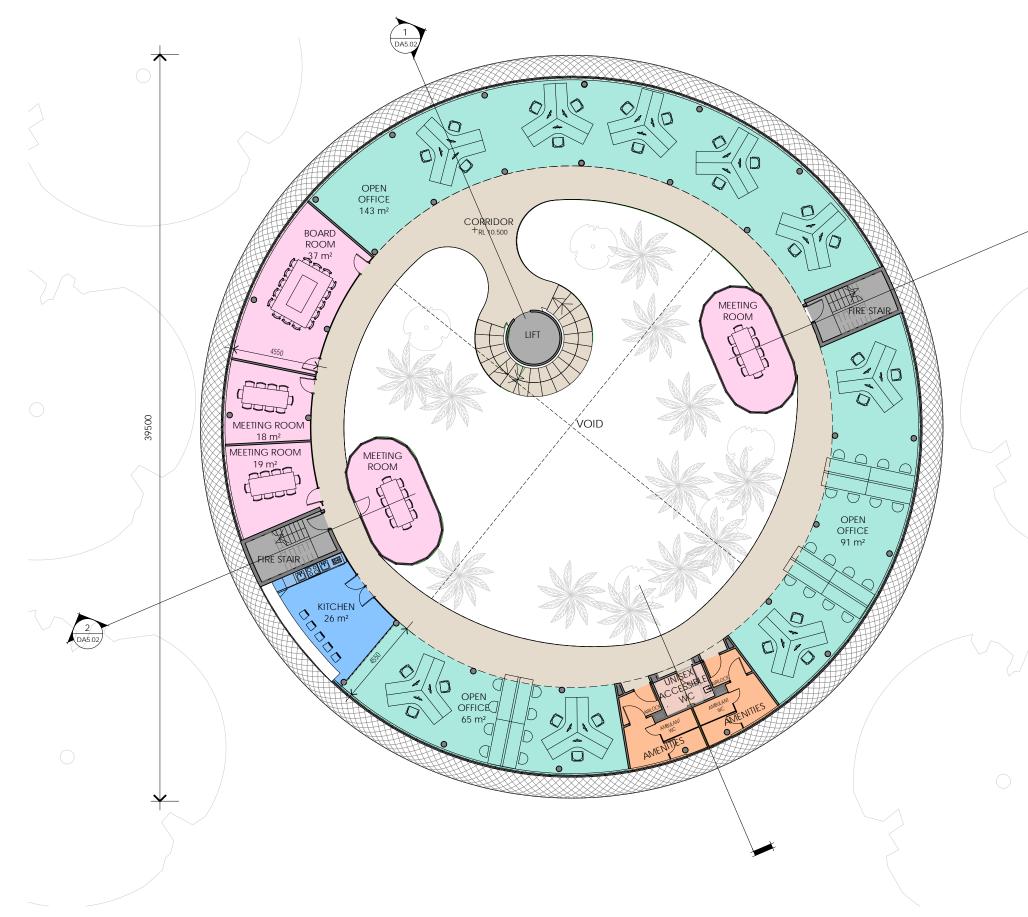
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Ancillary Office - Lev Stage 2 Works



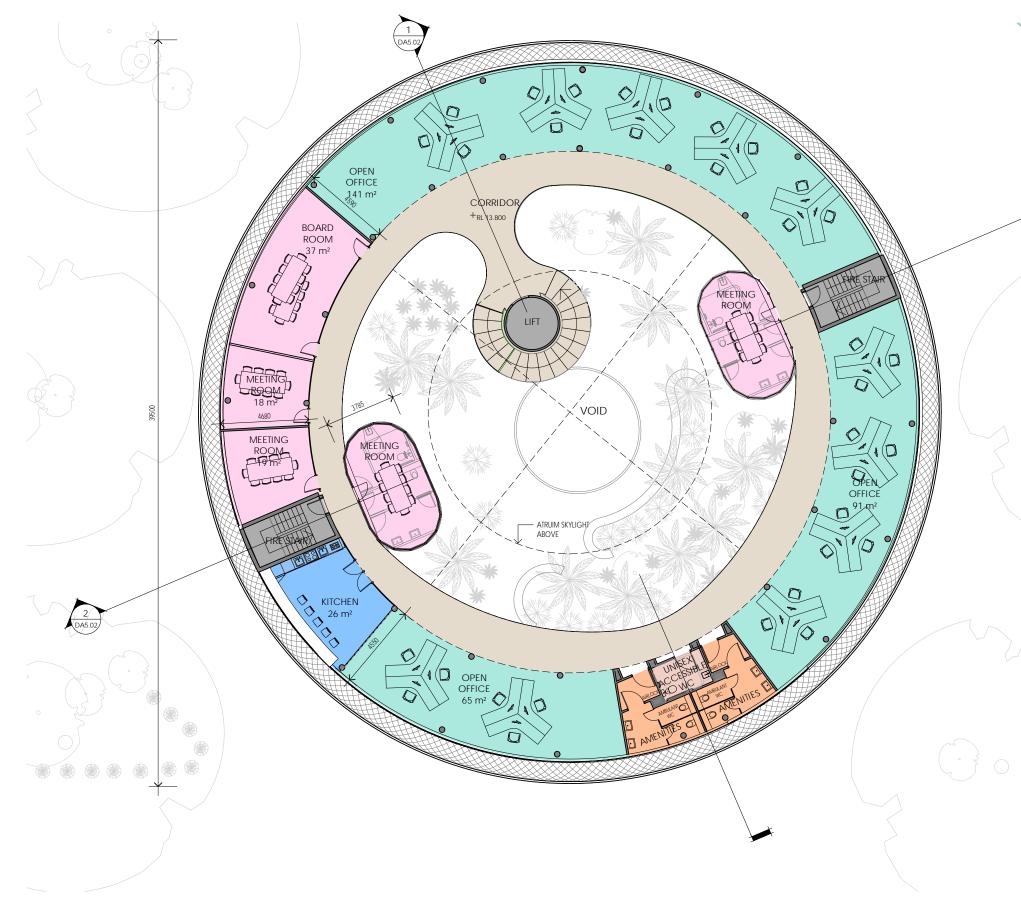
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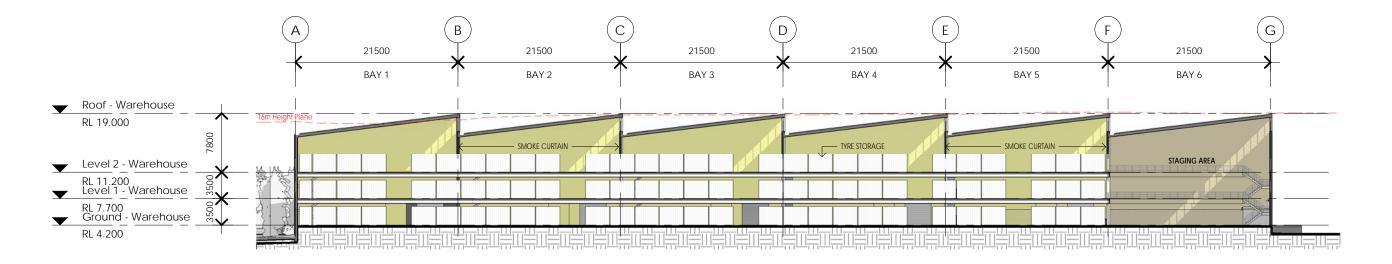
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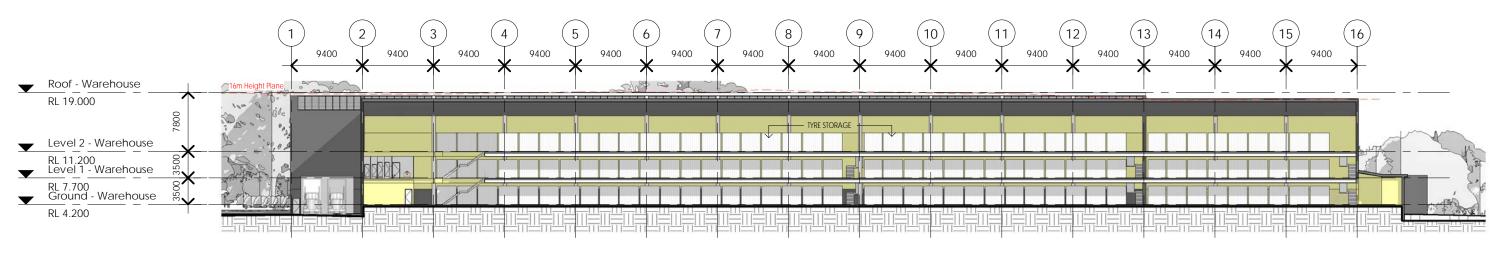


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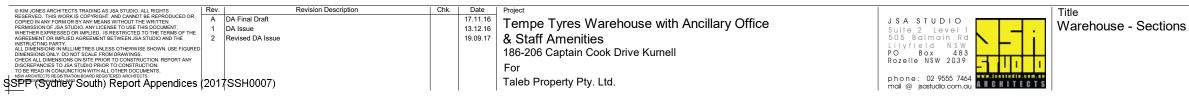


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Section B 1 : 500 2





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1 Section A - Ancillary Office

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2 Section B - Ancillary Office



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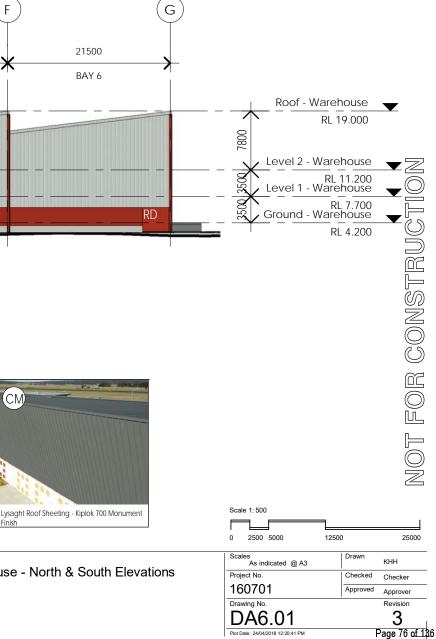
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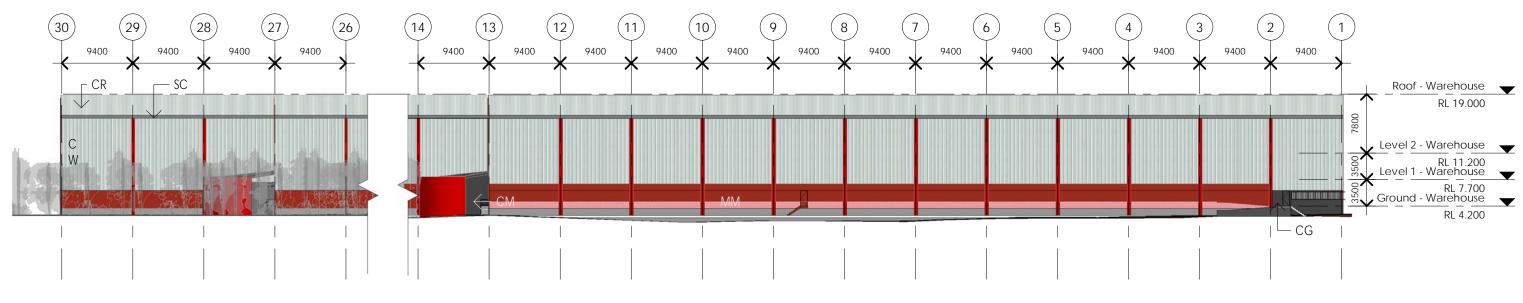


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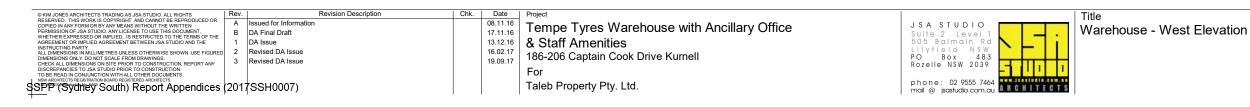












Roof - Warehouse

Level 3 - Warehouse Level 2 - Warehouse Level 1 - Warehouse

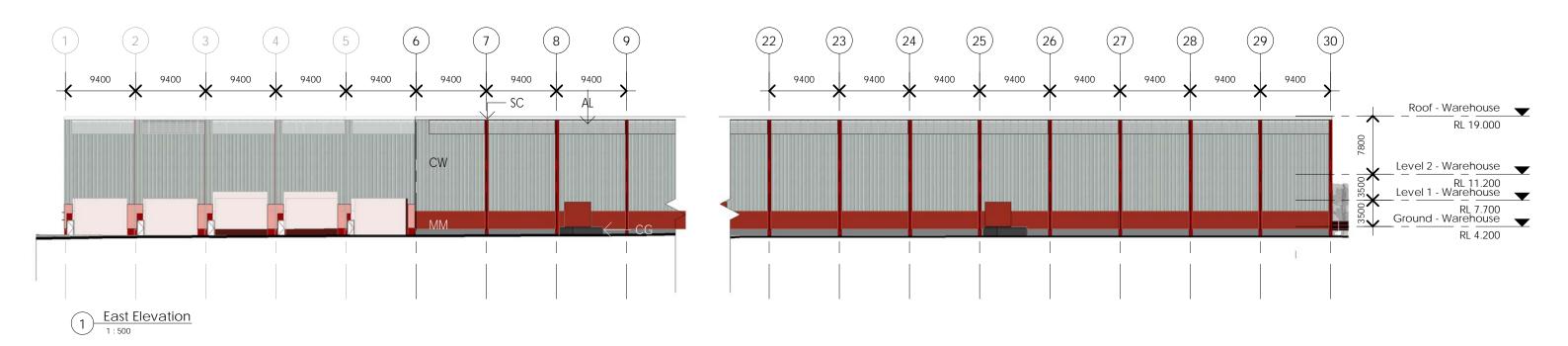
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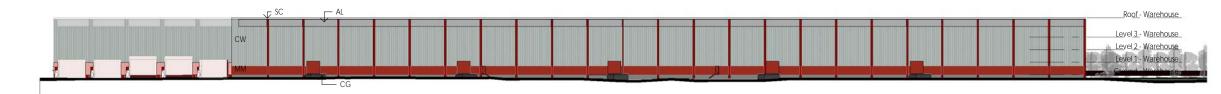
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2 East Elevation

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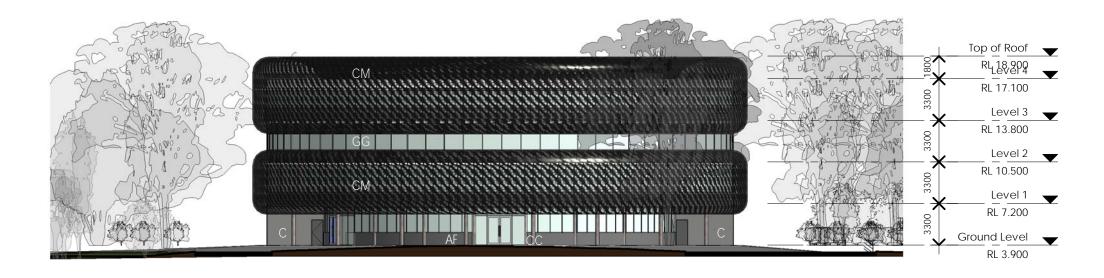


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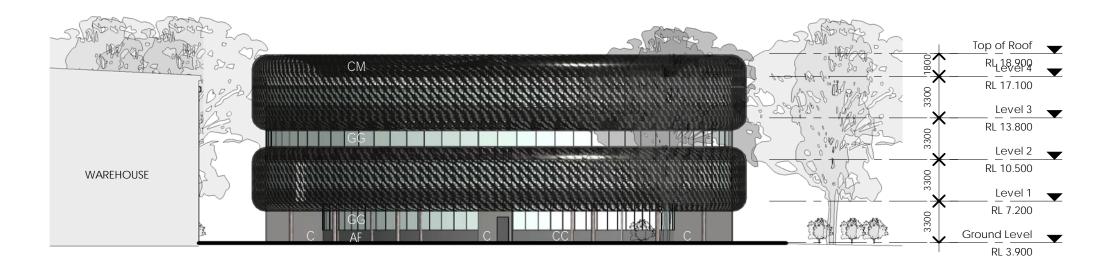
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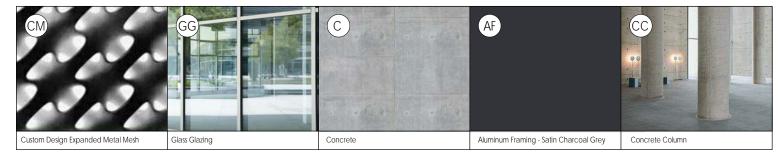
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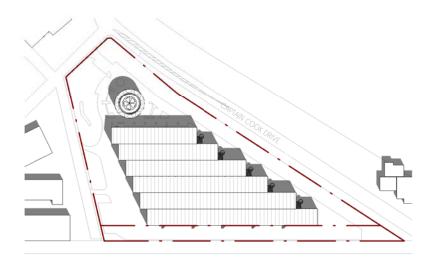


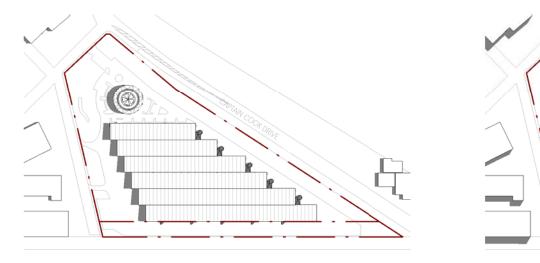




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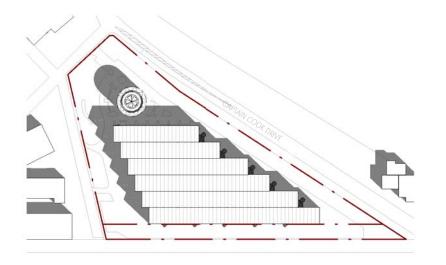
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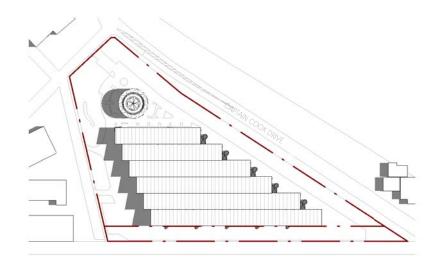
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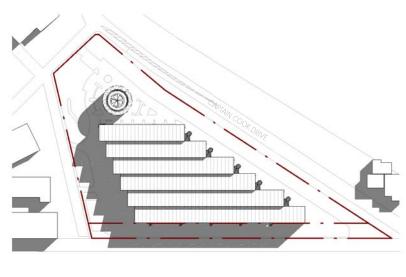
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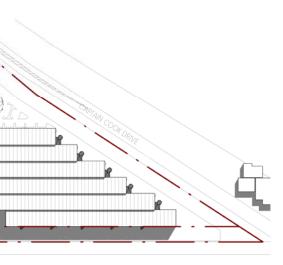


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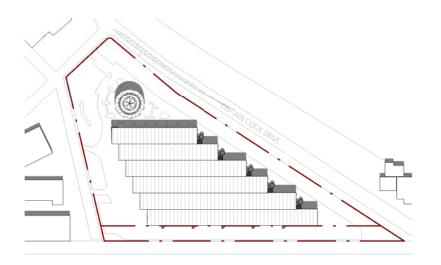


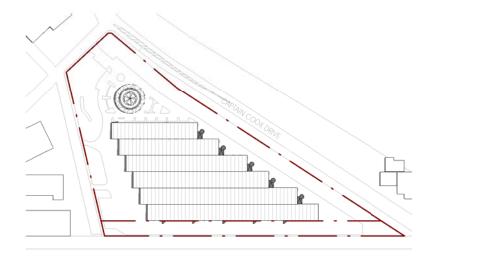
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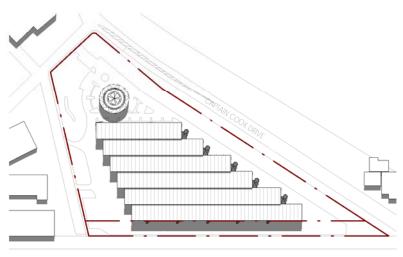
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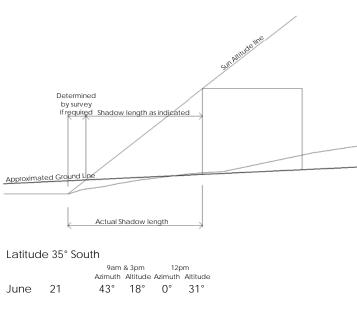


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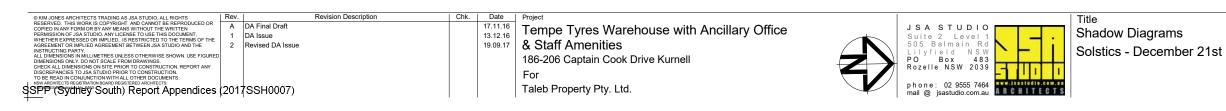
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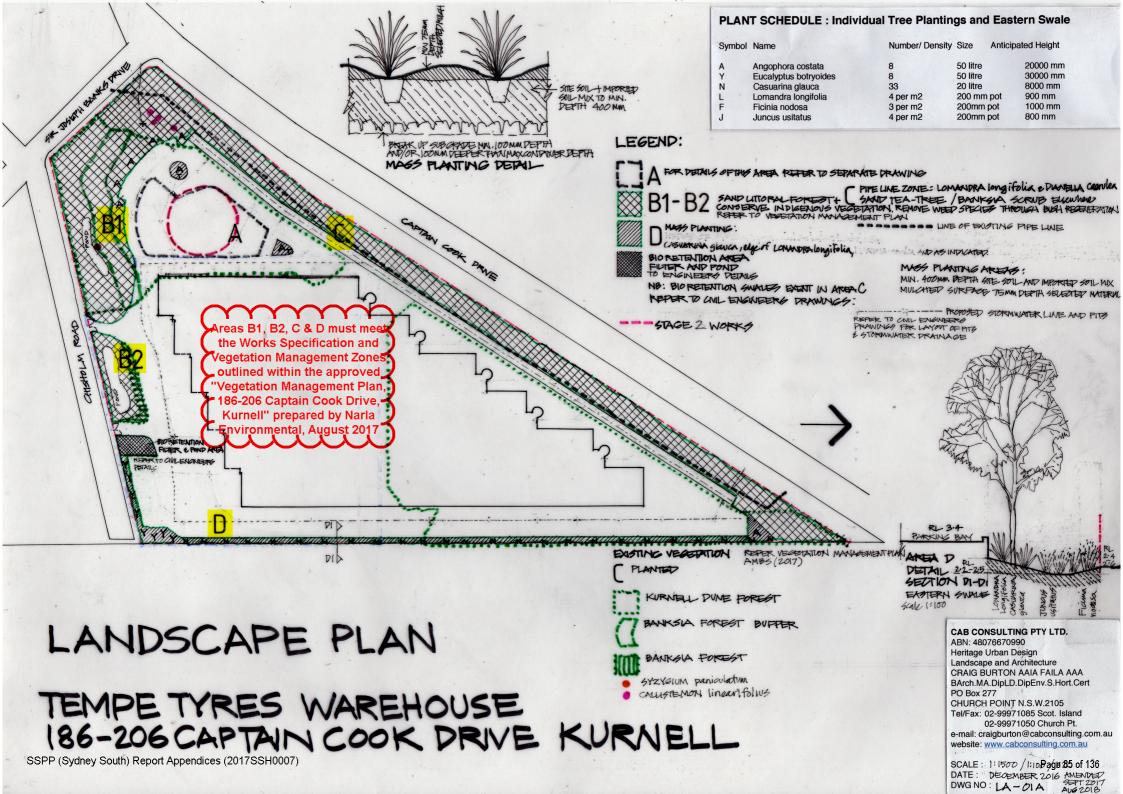
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GENERAL

- **G1** These drawings shall be read in conjunction with all architectural and other consultants drawings and specifications and with such other written instructions and sketches as may be issued during the course of the Contract. Any discrepancies shall be referred to the Superintendent before proceeding with any related works. Construction from these drawings, and their associated consultant's drawings is not to commence until approved by the Local Authorities.
- **G2** All materials and workmanship shall be in accordance with the relevant and current Standards Australia codes and with the By-Laws and Ordinances of the relevant building authorities except where varied by the project specification.
- **G3** All set out dimensions shall be obtained from Architect's and Engineer's details. All discrepancies shall be referred to the Architect and Engineer for decision before proceeding with related work.
- **G4** During construction the structure shall be maintained in a stable condition and no part shall be overstressed. Temporary bracing shall be provided by the builder/subcontractor to keep the works and excavations stable at all times.
- G5 Unless noted otherwise levels are in metres and dimensions are in millimetres.
 G6 The alignment and level of all services shown are approximate only. The contractor shall confirm the position and level of all services prior to commencement of construction. Any damage to services shall be rectified at
- G7 Any substitution of materials shall be approved by the Engineer and included in any tender.
- G8 All services, or conduits for servicing shall be installed prior to commencement of pavement construction.
- **G9** Subsoil drainage, comprising 100 agriculture pipe in geo-stocking to be placed as shown and as may be directed by the superintendent. Subsoil drainage shall be constructed in accordance with the relevant local authority construction specification.
- G10 The structural components detailed on these drawings have been designed in accordance with the relevant Standards Australia codes and Local Government Ordinances for the following loadings. Refer to the Architectural drawings for proposed floor usage. Refer to drawings for live loads and superimposed dead loads.

DRAINAGE NOTES

- D1 All drainage levels to be confirmed on site, prior to any construction commencing.
- D2 All pipes within the property to be a minimum of 100 dia upvc @ 1% minimum grade, uno.
- All pits within the property are to be fitted with "weldlok" or approved equivalent grates:
 Light duty for landscaped areas
 Heavy duty where subjected to vehicular traffic
- All pits within the property to be constructed as one of the following:
 1) Precast stormwater pits
 2) Cast insitu mass concrete
- 3) Cement rendered 230mm brickwork subject to the relevant local authority construction specification.
 D5 Ensure all grates to pits are set below finished surface level within the property. Top of pit RL's are
- approximate only and may be varied subject to approval of the engineer. All invert levels are to be achieved.
- **D6** Any pipes beneath relevant local authority road to be rubber ring jointed RCP, uno.
- **D7** All pits in roadways are to be fitted with heavy duty grates with locking bolts and continuous hinge.
- **D8** Provide step irons to stormwater pits greater than 1200 in depth.
- D9 Trench back fill in roadways shall comprise sharp, clean granular back fill in accordance with the relevant local authority specification to non-trafficable areas to be compacted by rodding and tamping using a flat plate vibrator.
- **D10** Where a high early discharge (hed) pit is provided all pipes are to be connected to the hed pit, uno.
- **D11** Down pipes shall be a minimum of dn100 sw grade upvc or 100 x100 colorbond/zincalume steel, uno.
- **D12** Colorbond or zincalume steel box gutters shall be a minimum of 450 wide x 150 deep.
- **D13** Eaves gutters shall be a minimum of 125 wide x 100 deep (or of equivalent area) colorbond or zincalume steel, uno.
- **D14** Subsoil drainage shall be provided to all retaining walls & embankments, with the lines feeding into the stormwater drainage system, uno.

EROSION AND SEDIMENT CONTROL NOTES

- E1 These notes are to be read in conjunction with erosion and sediment control details in this drawing set.E2 The contractor shall implement all soil erosion and sediment control measures as necessary and to the
- satisfaction of the relevant local authority 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 the relevant local authority 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".
- E3 Place straw bales length wise in a row as parallel as possible to the site contours, uno. Bale ends to be tightly butted. Bales are to be placed so that straws are parallel to the row. Bales are to be placed 1.5m to 2m downslope from the toe of the disturbed batter, uno.
- E4 Council approved filter fabric to be entrenched 150mm deep upslope towards disturbed surface. Fabric to be a minimum SF2000 or better. Fix fabric to posts with wire ties or as recomended with manufacturer's specifications. Fabric joints to have a minimum of 150mm overlap. Wire to be strung between posts with filter fabric overlap to prevent sagging.
- E5 Stabalised entry/exit points to remain intact until finished driveway is complete. Construction of entry/exit points to be maintained and repaired as required so that it's function is not compromised. Construction of entry/exit point to be in accordance with the detail contained within this drawing set.
- E6 All drainage pipe inlets to be capped until: - downpipes connected - pits constructed and protected with silt barrier
- E6 Provide and maintain silt traps around all surface inlet pits until catchment is revegetated or paved.
- **E7** The contractor shall regularly maintain all erosion and sediment control devices and remove accumulated silt from such devices such that 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 and further as may be directed by the superintendent or council.
- E8 The contractor shall implement dust control by regularly wetting down (but not saturating) disturbed area.
 E9 Topsoil shall be stripped and stockpiled outside hazard areas such as drainage lines. This topsoil shall 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.
- **E10** Lay 300 wide minimum turf strip on 100 topsoil behind all kerb and gutter with 1000 long returns every 6000 and around structures immediately after backfilling as per the relevant local authority specification.
- E11 The contractor shall grass seed all disturbed areas with an approved mix as soon as practicable after
- completion of earthworks and regrading.E12 Revegetate all trenches immediately upon completion of backfilling.
- E13 When any devices are to be handed over to council they shall be in clean and stable condition.

PROPOSED WAREHOUSE AT 186-206 CAPTAIN COOK DRIVE, KURNELL

STANDARD LINE TYPES AND SYMBOLS

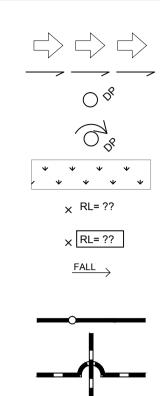
	PROPOSED KERB & GUTTER
	EXISTING KERB & GUTTER
	PROPOSED BELOW GROUND PIPELINE
	PROPOSED SUSPENDED PIPELINE
	EXISTING PIPELINE
22 22 22	SUBSOIL DRAINAGE LINE
	PROPOSED KERB INLET PIT
	EXISTING KERB INLET PIT
	PROPOSED JUNCTION OR INLET PIT
	EXISTING JUNCTION OR INLET PIT
	DESIGN CENTRELINE
	EXISTING EDGE OF BITUMEN
TTT	TELECOMUNICATION CONDUIT
G G	GAS MAIN
vvv	WATER MAIN
sss	SEWER MAIN
vvv	UNDERGROUND ELECTRICITY CABLES
	PERMANENT MARK & S.S.M.
ΔΔ	BENCH MARK, SURVEY STATION

RECOMMENDED MAINTENANCE SCHEDULE

DISCHARGE CONTROL PIT (DCP)	FREQUENCY	RESPONSIBILI
Inspect flap valve and remove any blockage.	Six monthly	Owner
Inspect screen and clean.	Six monthly	Owner
Inspect & remove any blockage of orifice.	Six monthly	Owner
Inspect dcp sump & remove any sediment-sludge.	Six monthly	Owner
Inspect grate for damage or blockage.	Six monthly	Owner
Inspect return pipe from storage and return any blockage.	Six monthly	Owner
Inspect outlet pipe and remove any blockage.	Six monthly	Maintenance Contractor
Check fixing of step irons is secure.	Six monthly	Maintenance Contractor
Inspect overflow weir & remove any blockage.	Six monthly	Maintenance Contractor
Empty basket at overflow weir (if present).	Six monthly	Maintenance Contractor
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance Contractor
Check attachment of screen to wall of pit.	Annually	Maintenance Contractor
Check screen for corrosion.	Annually	Maintenance Contractor
Check attachment of flap valve to wall of .	Annually	Maintenance Contractor
Check flap valve seals against wall of pit.	Annually	Maintenance Contractor
Check any hinges of flap valve move freely.	Annually	Maintenance Contractor
Inspect dcp walls (internal and external, if appropriate) for cracks or spalling.	Annually	Maintenance Contractor
Check step irons for corrosion.	Annually	Maintenance Contractor
Check orifice diameter correct and retains sharp edge.	Five yearly	Maintenance Contractor
STORAGE		
Inspect & remove any blockage of orifice.	Six monthly	Owner

Check orifice diameter correct and retains sharp edge.	Six monthly	Owner
Inspect screen and clean.	Six monthly	Owner
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor

STANDARD LINE TYPES AND SYMBOLS



OVERLAND FLOW PATH

GRADED IMPERVIOUS AREA (ROOF, CONC SLABS ETC)

SEDIMENT FENCE

CROSSING PIPES

NODE POINT

AHD AG ARI BG BWL CO DCP DR BG EG EG FW GSID HP IL IO O/F DD PSD RCH RL RT HO SLAP SPR	Australian height datum Ag-pipe (Sub soil drainage) Average recurrence interval Box Gutter Bottom water level Cover level Clean out inspection opening Discharge control pit Down pipe Dropper pipe Existing box gutter Existing down pipe Existing eaves gutter Eaves gutter Fiber reinforced concrete Floor waste Grated drain Grated surface inlet pit High point of gutter Invert level Inspection opening Overflow On-site detention Permissible site discharge Pipe 1 Reinforced concrete pipe Rectangular hollow section Reduced level Rubber ring joint Rainwater re-use tank Rain water outlet Sealed lid access pit Spreader pipe	SS SU TW TWL U/S VG UNO	Stainless steel Box gutter sump Top of wall Top water level Underside of slab Vally gutter Unless noted otherwise
SCH	EDULE OF DRAWIN	GS	
C00.01	GENERAL NOTES		
C01.01	SEDIMENT AND EROSION CONT	ROL PLAN	1
C02.01	STORMWATER DRAINAGE PLAN	SHEET 1	

C02.02 STORMWATER DRAINAGE PLAN SHEET 2

C02.02 STORMWATER DRAINAGE PLAN SHEET 3

C02.03 STORMWATER DETAILS SHEET

_ITY	PROCEDURE
	Remove grate. Ensure flap valve moves freely and remove any blockages or debris.
	Revove grate and screen if required and clean it.
	Remove grate & screen to inspect orifice. see plan for location of dcp.
	Remove grate and screen. Remove sediment/sludge build-up and check orifice and flap valve clear.
	Check both sides of grate for corrosion, (especially corners and welds) damage or blockage.
	Remove grate and screen. ventilate underground storage if present. open flap valve and remove any blockages in return line. Check for sludge/debris on upstream side of return line.
	Remove grate and screen. ventilate underground storage if present. Check orifice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.
	Remove grate and ensure fixings secure prior to placing weight on step iron.
	Remove grate and open cover to ventilate underground storage if present. ensure weir clear of blockages.
	Remove grate and ventilate underground storage chamber if present. Empty basket, check fixings secure and not corroded.
	Remove grate and screen. ensure plate mounted securely, tighten fixings if required. seal gaps as required.
	Remove grate and screen. ensure screen fixings secure. repair as required.
	Remove grate and examine screen for rust or corrosion, especially at corners or welds.
	Remove grate. Ensure fixings of valve are secure.
	Remove grate. fill pit with water and check that flap seals against side of pit with minimal leakage.
	Remove grate. Test valve hinge by moving flap to full extent.
	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
	Remove grate. Examine step irons and repair any corrosion or damage.
	Compare diameter to design (see work-as- executed) and ensure edge is not pitted or damaged.
	Remove grate and screen. remove sediment/sludge build-up.
	Remove blockages from grate and check if pit blocked.
	Remove debris and floatable material likely to be carried to grates.
	Remove grate to inspect internal walls. repair as required. clear vegetation from external walls if necessary and repair as required.
	Compare actual storage available with work-as executed plans. If volume loss is greater than 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal.
	Check along drainage lines and at pits for subsidence likely to indicate leakages.

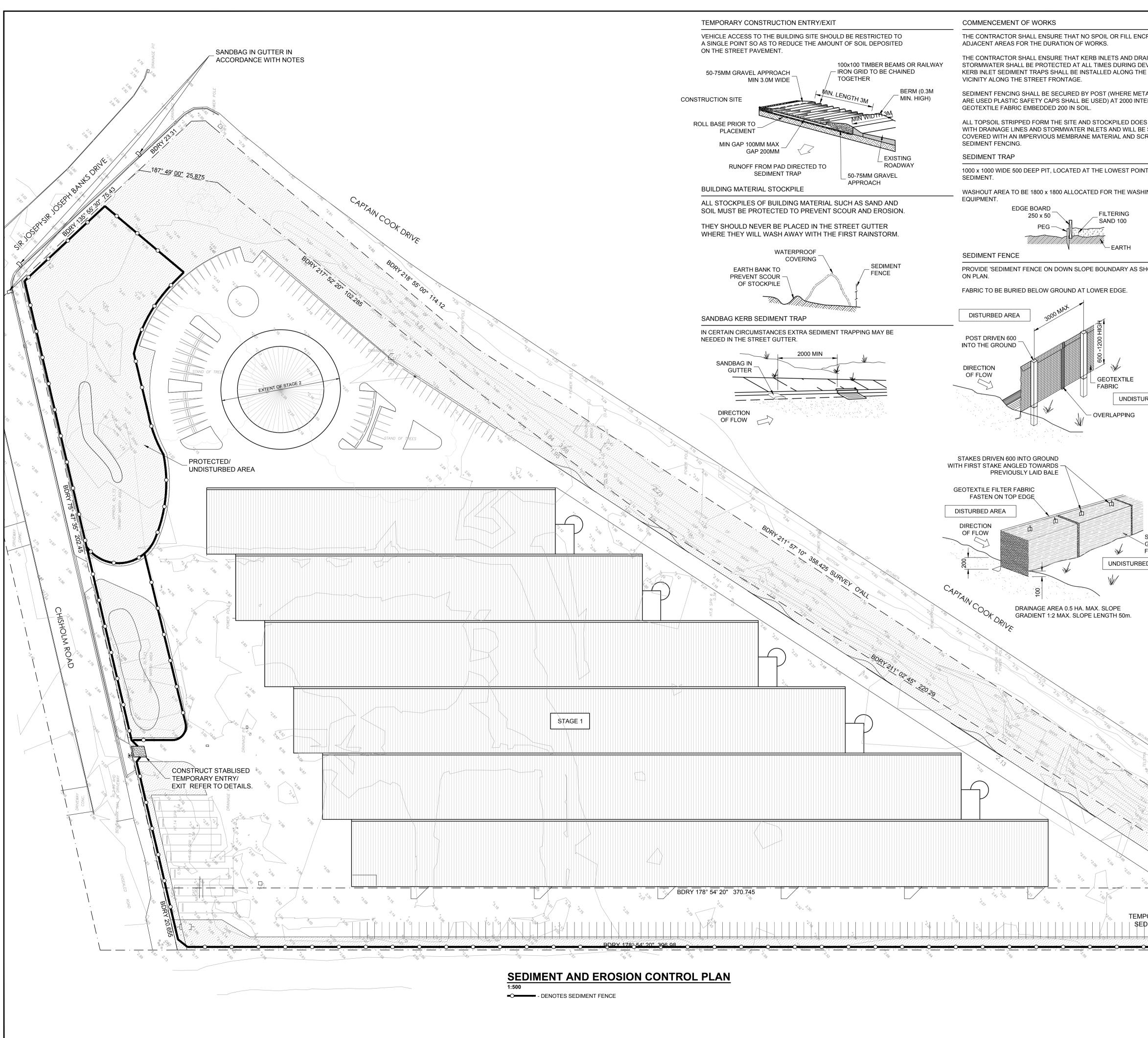
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Н	25.05.18 RE-ISSUED FOR APPROVAL F.I.					F.I.
G	21.05.18	05.18 REVISED STORMWATER LAYOUT F.I.				F.I.
F	18.05.18	REVISED	TO SUIT A	RCHITECTURA	L PLANS	F.I.
Е	06.10.17	REVISED	TO SUIT A	RCHITECTURA	L PLANS	F.I.
D	06.09.17	REVISED	DRAINAGE	E LAYOUT		O.G.
REV	DATE	DESCRIP	TION			BY
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GENERAL NOTES						
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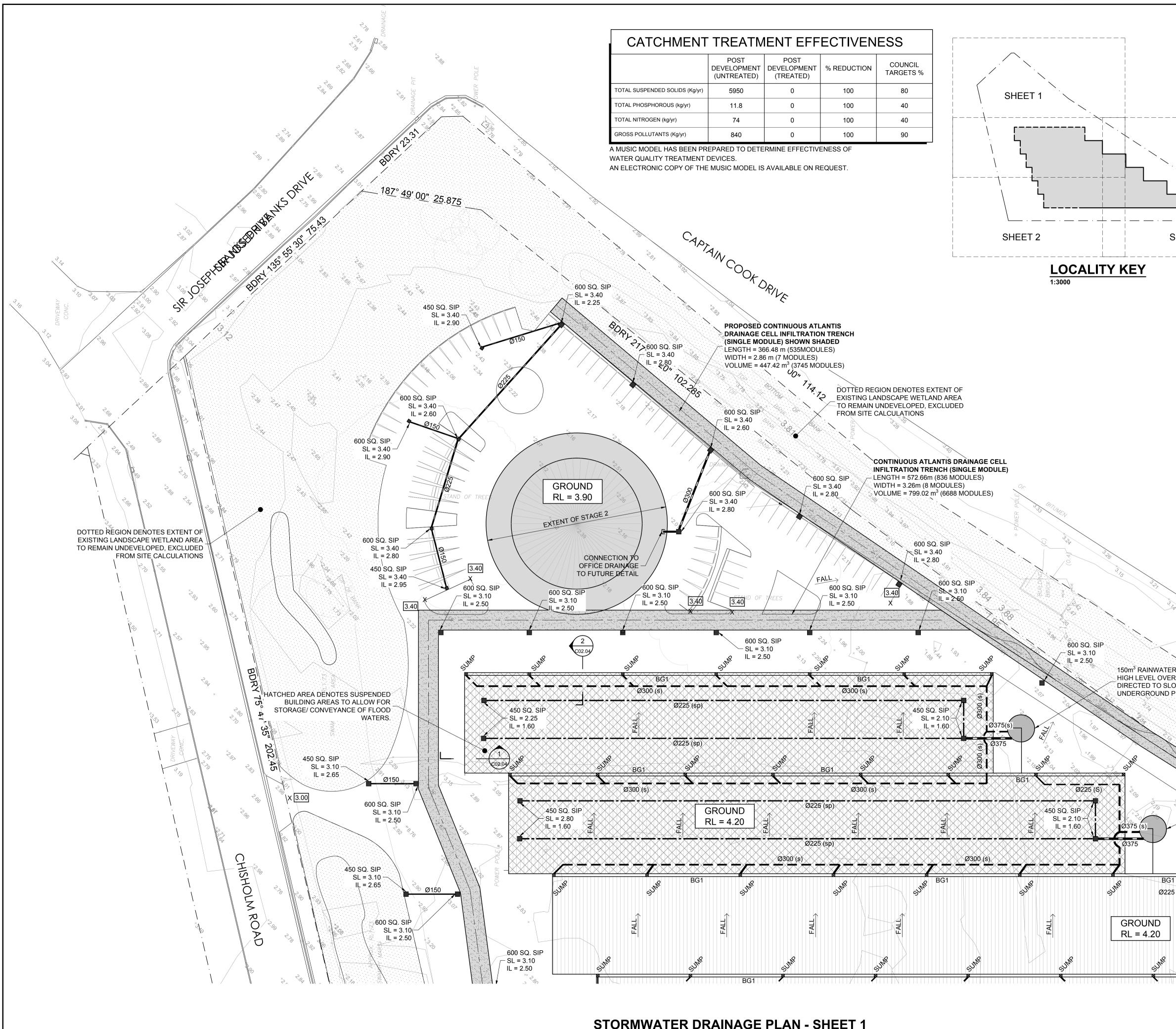
B.C.

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO

ARCHITECTURAL PLANS VERIEV DIMENSIONS ON SITE



ICROACHES UPON	GENERAL NOTE			JUNCTION WITH OTHER		
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				R PAVEMENTS SHALL BE S OF THE LOCAL COUNCIL)
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SHOWN	BE RESTORED TO) ORIGINAL CC S, GRAVEL AN	NDITION, IN D GRASSEE	LATION, ALL DISTURBED / CLUDING KERBS, FOOTPA AREAS AND ROAD PAVE	ATHS,	
SHOWN	CONTRACTOR TO			APPROVALS UNLESS DIRE	ECTED	
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	THE STORMWATE	R DRAINAGE	DESIGN HAS	BEEN CARRIED OUT IN A	CCORDANCE	
				AGE" & AS/NZS 3500.3.2-19 SOLUTIONS".	998	
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	ANY VARIATIONS			S OR DETAILS SHALL BE R	EFERRED TO)
URBED AREA	DOWN PIPES SHA COLORBOND OR			00 SW GRADE uPVC OR 10	0 X 100	
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		SHALL BE A M		125 WIDE X 100 DEEP (OR	OF	
	SUBSOIL DRAINA	GE SHALL BE F	PROVIDED T	O ALL RETAINING WALLS		
	SYSTEM.				JIANAGE	
	SEDIMENT AND E	ROSION CONT	ROL SHALL	BE EFFECTIVELY MAINTA		
4. VII. 10. VII. 10		AS BEEN STA	BILISED OR	CTION AND SHALL NOT BE LANDSCAPED TO THE	REMOVED	
STRAW BALE AND				- BE PROVIDED AT THE FF ATE OR SIMILAR MATERIA		
GEOTEXTILE SEDIMENT	MINIMUM THICKNESS OF 150 LAID OVER NEEDLE-PUNCHED GEOTEXTILE FABRIC AND CONSTRUCTED PRIOR TO COMMENCEMENT OF WORKS.					
BED AREA		NSERVATION NOTE				
		AND WASHOL	T AREA TO	ENSURE THE CAPTURE O	- /	
	MAINTAIN THE AB			E OF CONSTRUCTION, AN	D CLEAR THE	Ē
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		G 21.05.1	8 REVISE	D STORMWATER LAYOUT		F.I.
17		F 18.05.1	8 REVISEI	D TO SUIT ARCHITECTURA	L PLANS	F.I.
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ELSTRA Barra		D 06.09.1		D DRAINAGE LAYOUT		0.G.
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CONSTRUCT IPORARY HAY BALE EDIMENT TRAP, TYP	BDRY 30		-206 CAF	SED WAREHC PTAIN COOK DRIVE, OR JSA STUDIO		-
	<u> </u>	SEDIME	NT & E		ROL PL	AN
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STORMWATER DRAINAGE PLAN - SHEET 1

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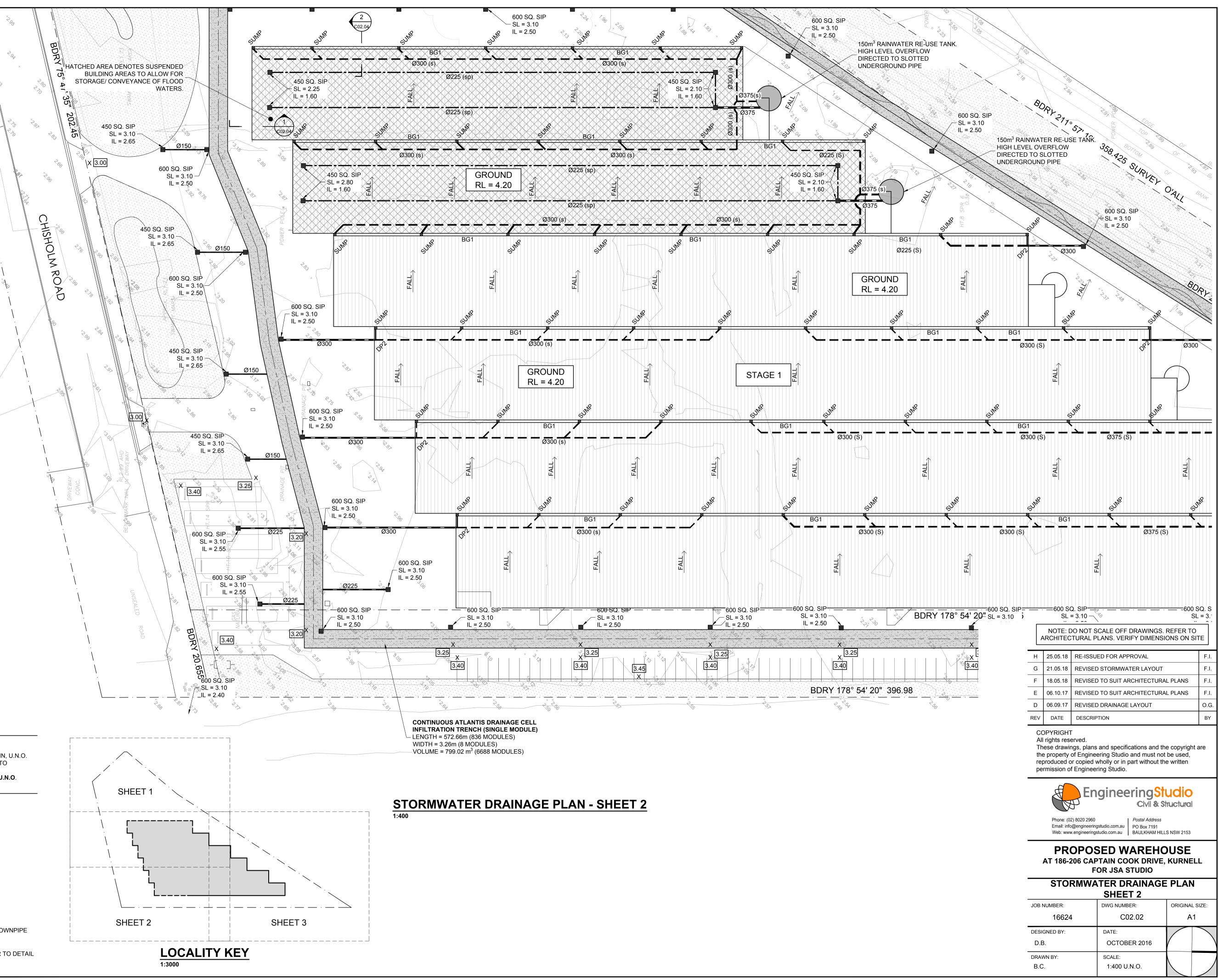
	STORMWATER DESIGN SUMM	
		= 5.88 ha
	EXISTING IMPERVIOUS AREA PROPOSED IMPERVIOUS AREA	= 1.25 ha = 4.25 ha
	IMPERVIOUS AREA DIRECTED TO ATLANTI INFILTRATION TRENCHES. INFILTRATION T FOR UP TO 1% A.E.P STORM EVENT.	
	INFILTRATION STORAGE CAPACITY	= 808.78 m ³
	DESIGN INFILTRATION RATE = 54mm/hr (0.0	015l/s/hr)
	REFER TO CALCULATION SHEET ON DWG INFILTRATION CALCULATIONS.	C12.04 FOR
\sim	STORMWATER DRAINAGE NO	ΓES
	 ALL DRAINAGE LINES SHALL BE uPVC (C STORMWATER DRAINAGE PIPE, U.N.O. 	LASS SH)
	 ALL DRAINAGE LINES SHALL BE LAID @ ' FIRST FLUSH RAINWATER DEVICES TO B DRAINAGE LINES TO BUILDER'S DETAIL, ' MINIMUM EFFECTIVE BOX GUTTER SLOP 	E FITTED TO TYPICAL
	LEGEND	E - 1.200 O.N.O.
SHEET 3	Ø225 DOWN PIPE	
SHELTS	of Ø300 DOWN PIPE	
	X 100.00 PROPOSED FINISHED SURFAC	ELEVEL
	PROPOSED BELOW GROUND F	
	(s) PROPOSED SUSPENDED PIPE	LINE
	PROPOSED SURFACE INLET P BG1 BOX CLITTER 600W × 200D	IT
	BG1 BOX GUTTER 600W x 200D SUMP 600W x 150D x 700L FITTED WITED	TH Ø225 DO\WNPIPE
	WITH Ø225 OVERFLOW PIPE	
	DENOTES ABSORPTION TREN	CH, REFER TO DETAIL
	(sp) SLOTTED PIPE	
3.10 3.10		
d 30		
emer and a second		
IWATER RE-USE TANK. L OVERFLOW	NOTE: DO NOT SCALE OFF DRAWI	
TO SLOTTED DUND PIPE		
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Ø225 (S)	Email: info@engineeringstudio.com.au PO Box	
	PROPOSED WARE	HOUSE
	AT 186-206 CAPTAIN COOK DE	RIVE, KURNELL
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.«	STORMWATER DRAIN SHEET 1	AGE PLAN
SUMP SUMP	JOB NUMBER: DWG NUMBER:	ORIGINAL SIZE:
BG1	BG1 16624 C02.01	A1
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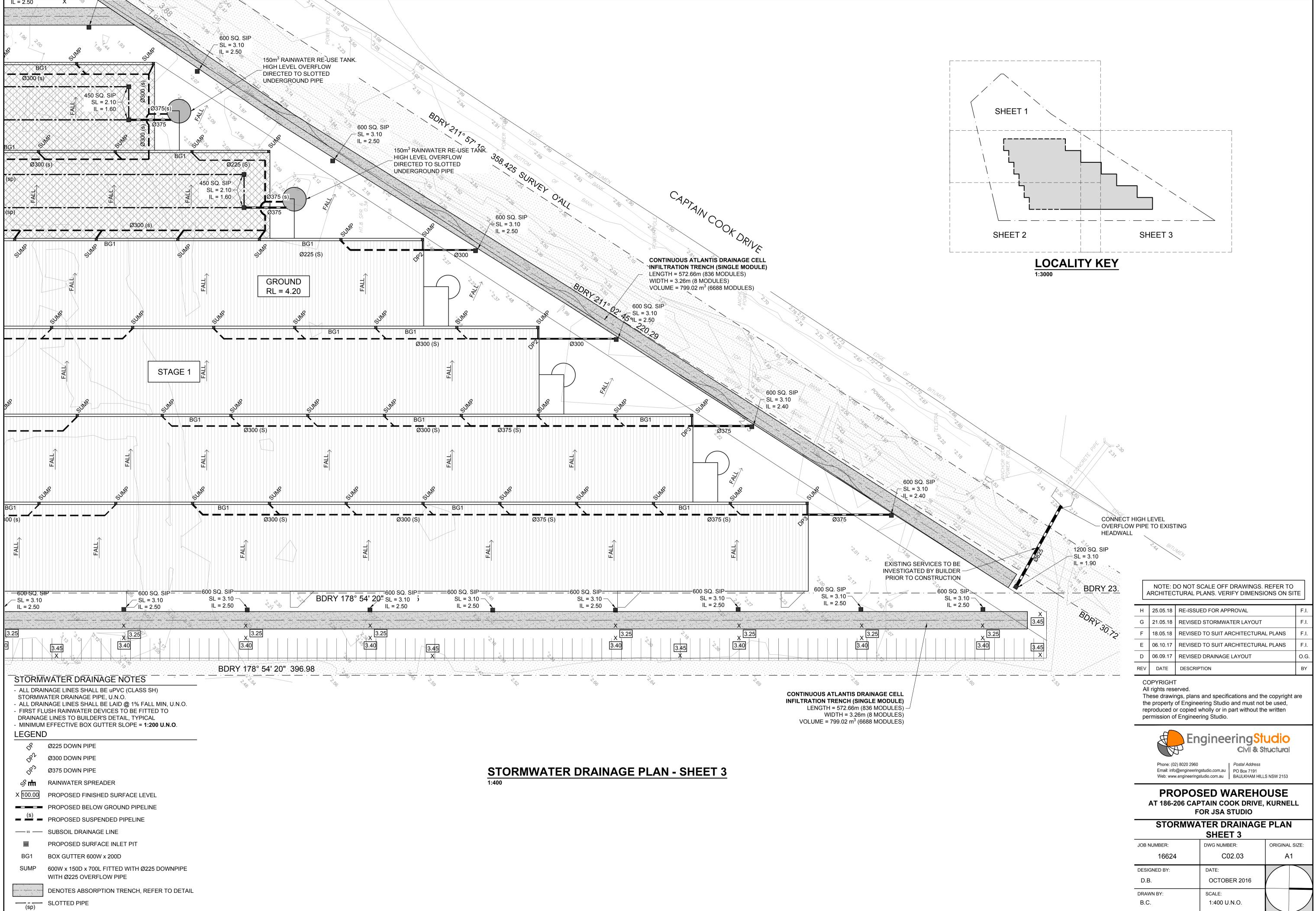


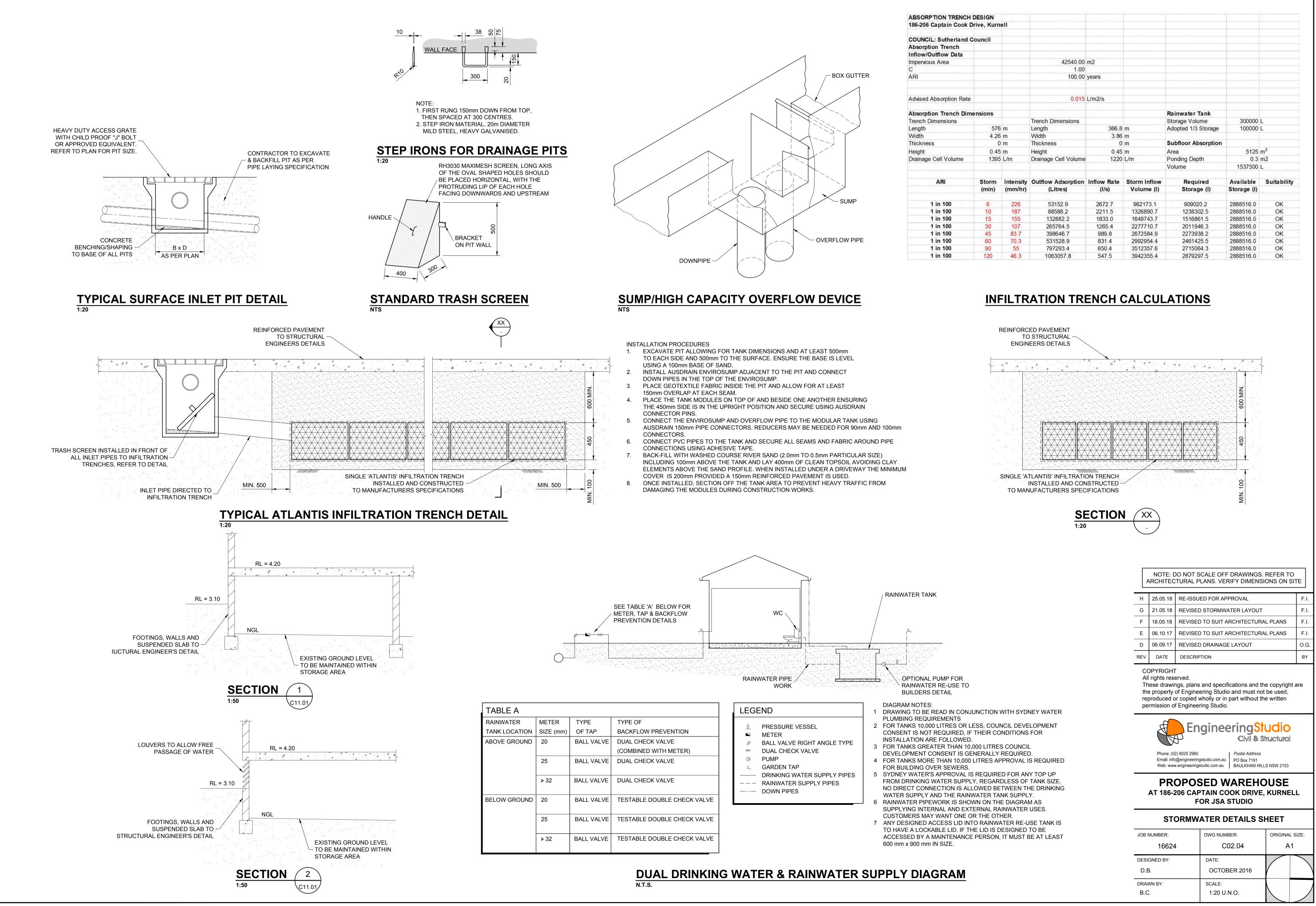
STORMWATER DRAINAGE NOTES

- ALL DRAINAGE LINES SHALL BE uPVC (CLASS SH)

STORMW - ALL DRA - FIRST FL DRAINAG	AGE LINES SHALL BE UP VC (CLASS SH) (ATER DRAINAGE PIPE, U.N.O. INAGE LINES SHALL BE LAID @ 1% FALL MIN, U.N.O. .USH RAINWATER DEVICES TO BE FITTED TO SE LINES TO BUILDER'S DETAIL, TYPICAL A EFFECTIVE BOX GUTTER SLOPE = 1:200 U.N.O. D		
	Ø225 DOWN PIPE	SHEET 1	
SP	Ø300 DOWN PIPE		+
08°	Ø375 DOWN PIPE		
<i>∽</i> ? ा⊓	RAINWATER SPREADER		
X 100.00	PROPOSED FINISHED SURFACE LEVEL		
	PROPOSED BELOW GROUND PIPELINE		
(S)	PROPOSED SUSPENDED PIPELINE		
ss	SUBSOIL DRAINAGE LINE		
	PROPOSED SURFACE INLET PIT		
BG1	BOX GUTTER 600W x 200D	SHEET 2	SHEET 3
SUMP	600W x 150D x 700L FITTED WITH Ø225 DOWNPIPE WITH Ø225 OVERFLOW PIPE		
	DENOTES ABSORPTION TRENCH, REFER TO DETAIL	LOCALITY I	KEY
(sp)	SLOTTED PIPE	1:3000	



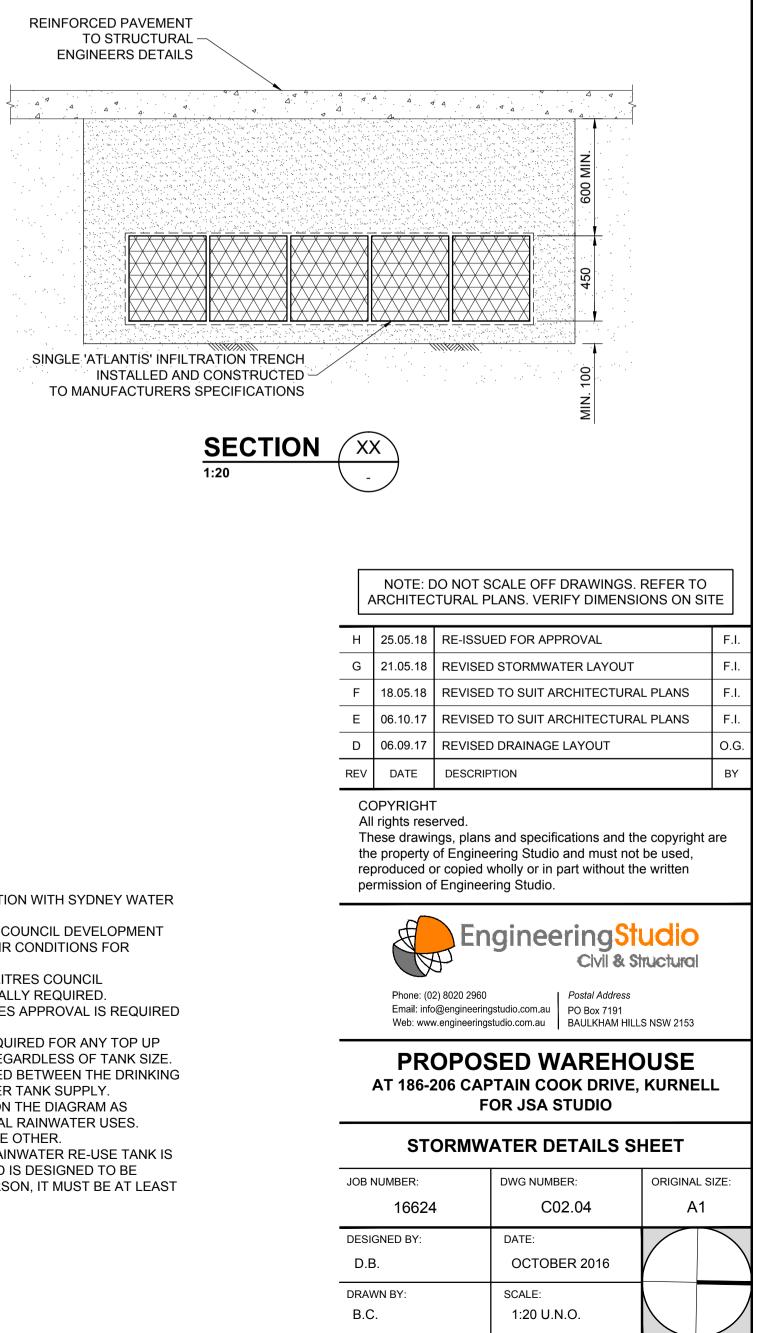


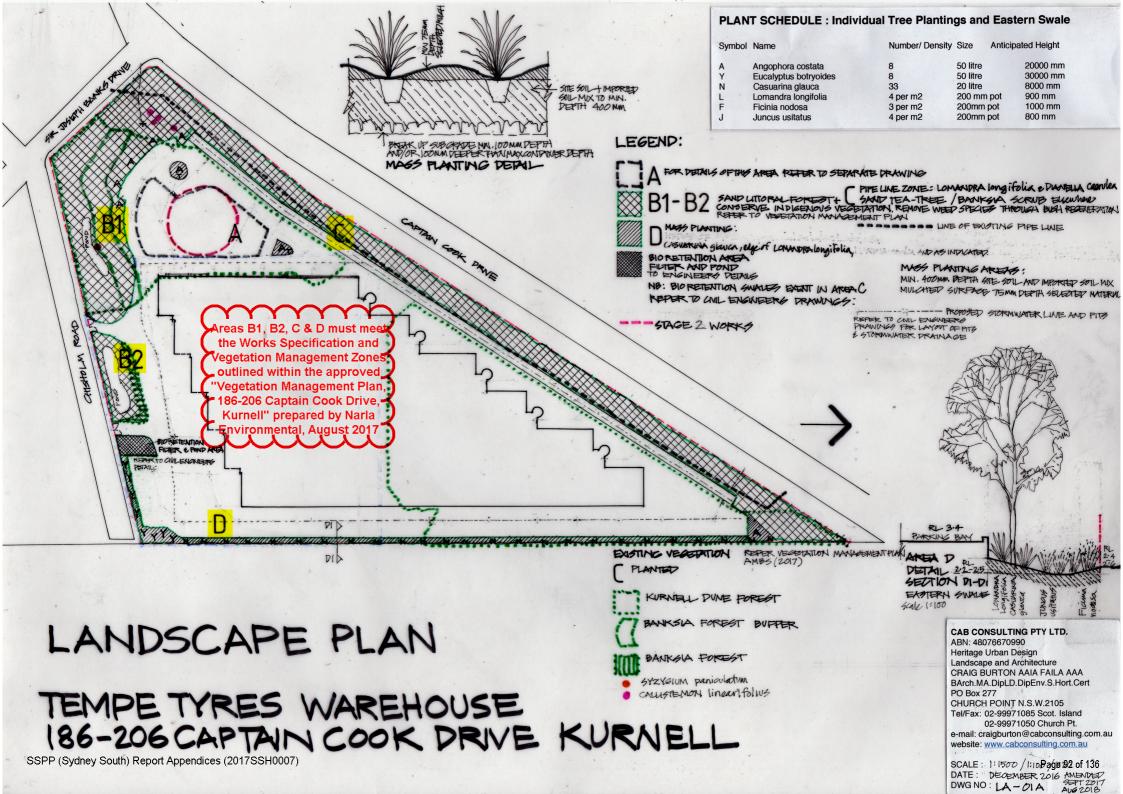


SSPP (Sydney South) Report Appendices (2017SSH0007)

ABSORPTION TRENCH D	DESIGN						1	
186-206 Captain Cook Dr	ive, Kurn	ell						
COUNCIL: Sutherland Co	ouncil							
Absorption Trench								
Inflow/Outflow Data								
Impervious Area			42540.00	m2				
C			1.00					
ARI			100.00	years				
Advised Absorption Rate			0.015	L/m2/s				
Absorption Trench Dime	nsions					Rainwater Tank		
Trench Dimensions	11310113		Trench Dimensions			Storage Volume	300000	1
Length	576	m	Length	366.8	m	Adopted 1/3 Storage	100000	
Width	4.26	J C.101	Width	3.86		Adopted 1/3 Stolage	100000	L
Thickness		m	Thickness		m	Subfloor Absorption		
		1				and the second se	5405	2
Height	0.45		Height	0.45		Area	5125	
Drainage Cell Volume	1395	L/m	Drainage Cell Volume	1220	L/m	Ponding Depth	0.3 m2	
						Volume	1537500	L
ARI	Storm	Intensity	Outflow Adsorption	Inflow Rate	Storm Inflow	Required	Available	Suitability
	(min)	(mm/hr)	(Litres)	(l/s)	Volume (I)	Storage (I)	Storage (I)	
1 in 100	6	226	53152.9	2672.7	962173.1	909020.2	2888516.0	OK
1 in 100	10	187	88588.2	2211.5	1326890.7	1238302.5	2888516.0	OK
1 in 100	15	155	132882.2	1833.0	1649743.7	1516861.5	2888516.0	OK
1 in 100	30	107	265764.5	1265.4	2277710.7	2011946.3	2888516.0	OK
1 in 100	45	83.7	398646.7	989.8	2672584.9	2273938.2	2888516.0	OK
1 in 100	60	70.3	531528.9	831.4	2992954.4	2461425.5	2888516.0	OK
1 in 100	90	55	797293.4	650.4	3512357.6	2715064.3	2888516.0	OK
1 in 100	120	46.3	1063057.8	547.5	3942355.4	2879297.5	2888516.0	OK

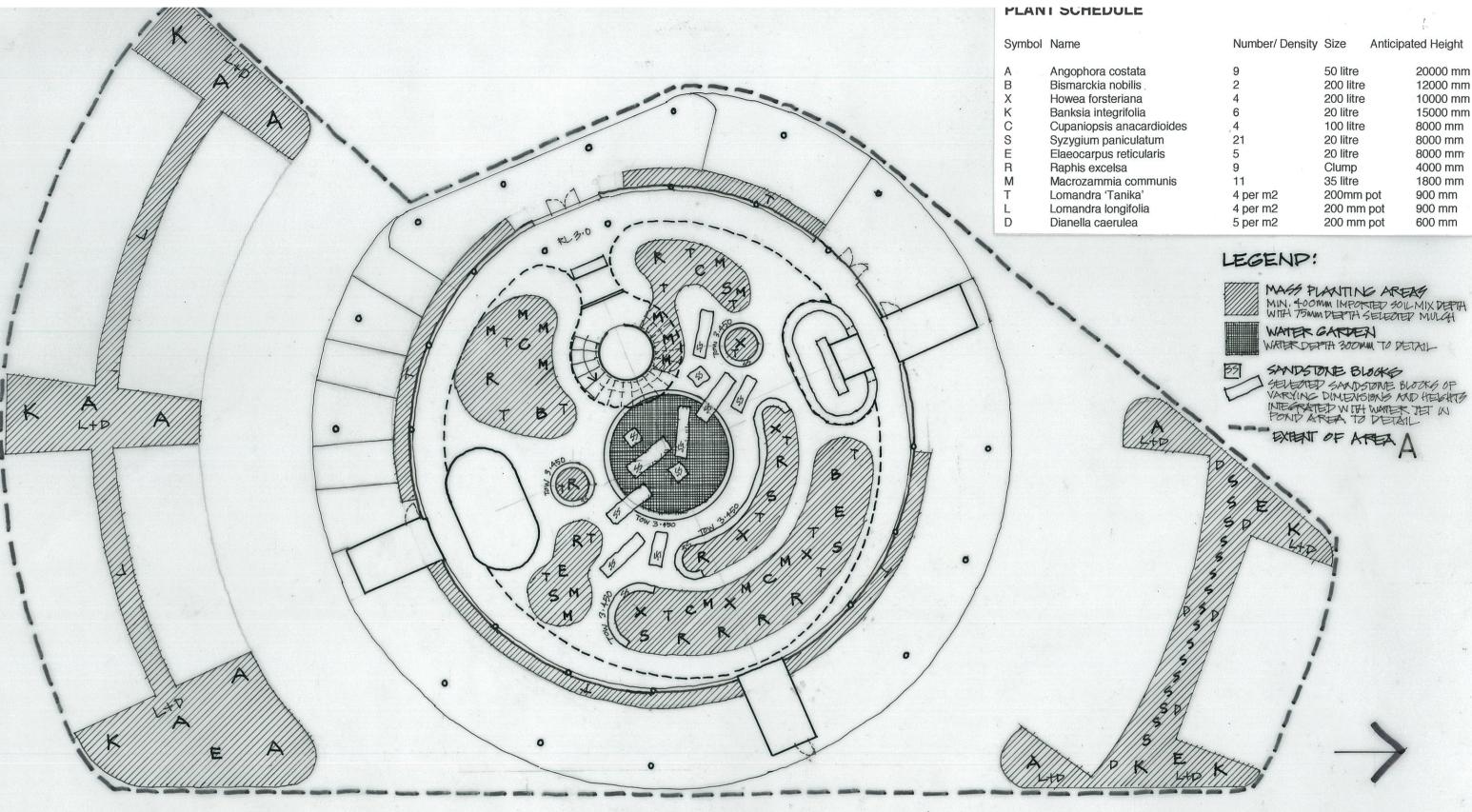






TEMPE TYRES WAREHOUSE 186-206 CAPTAIN COOK DRIVE KURNELL

LANDSCAPE PLAN DETAIL AREA A



costata	9	50 litre	20000 mm
nobilis ,	2	200 litre	12000 mm
steriana	4	200 litre	10000 mm
tegrifolia	6	20 litre	15000 mm
is anacardioides	.4	100 litre	8000 mm
paniculatum	21	20 litre	8000 mm
us reticularis	5	20 litre	8000 mm [.]
elsa	9	Clump	4000 mm
mia communis	11	35 litre	1800 mm
'Tanika'	4 per m2	200mm pot	900 mm
longifolia	4 per m2	200 mm pot	900 mm
erulea	5 per m2	200 mm pot	600 mm

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SCALE: 1:200 DATE: DECEMBER 2016 Page 93 of 136 DWG LA-02A

GENERAL

- **G1** These drawings shall be read in conjunction with all architectural and other consultants drawings and specifications and with such other written instructions and sketches as may be issued during the course of the Contract. Any discrepancies shall be referred to the Superintendent before proceeding with any related works. Construction from these drawings, and their associated consultant's drawings is not to commence until approved by the Local Authorities.
- **G2** All materials and workmanship shall be in accordance with the relevant and current Standards Australia codes and with the By-Laws and Ordinances of the relevant building authorities except where varied by the project specification.
- **G3** All set out dimensions shall be obtained from Architect's and Engineer's details. All discrepancies shall be referred to the Architect and Engineer for decision before proceeding with related work.
- **G4** During construction the structure shall be maintained in a stable condition and no part shall be overstressed. Temporary bracing shall be provided by the builder/subcontractor to keep the works and excavations stable at all times.
- G5 Unless noted otherwise levels are in metres and dimensions are in millimetres.
 G6 The alignment and level of all services shown are approximate only. The contractor shall confirm the position and level of all services prior to commencement of construction. Any damage to services shall be rectified at
- 67 Any substitution of materials shall be approved by the Engineer and included in any tender.
- G8 All services, or conduits for servicing shall be installed prior to commencement of pavement construction.
- **G9** Subsoil drainage, comprising 100 agriculture pipe in geo-stocking to be placed as shown and as may be directed by the superintendent. Subsoil drainage shall be constructed in accordance with the relevant local authority construction specification.
- G10 The structural components detailed on these drawings have been designed in accordance with the relevant Standards Australia codes and Local Government Ordinances for the following loadings. Refer to the Architectural drawings for proposed floor usage. Refer to drawings for live loads and superimposed dead loads.

DRAINAGE NOTES

- D1 All drainage levels to be confirmed on site, prior to any construction commencing.
- D2 All pipes within the property to be a minimum of 100 dia upvc @ 1% minimum grade, uno.
- D3 All pits within the property are to be fitted with "weldlok" or approved equivalent grates: - Light duty for landscaped areas
- Heavy duty where subjected to vehicular traffic
 D4 All pits within the property to be constructed as one of the following:

 Precast stormwater pits
 Cast insitu mass concrete
- 3) Cement rendered 230mm brickwork subject to the relevant local authority construction specification.
 D5 Ensure all grates to pits are set below finished surface level within the property. Top of pit RL's are
- approximate only and may be varied subject to approval of the engineer. All invert levels are to be achieved.
- **D6** Any pipes beneath relevant local authority road to be rubber ring jointed RCP, uno.
- **D7** All pits in roadways are to be fitted with heavy duty grates with locking bolts and continuous hinge.
- **D8** Provide step irons to stormwater pits greater than 1200 in depth.
- **D9** Trench back fill in roadways shall comprise sharp, clean granular back fill in accordance with the relevant local authority specification to non-trafficable areas to be compacted by rodding and tamping using a flat plate vibrator.
- **D10** Where a high early discharge (hed) pit is provided all pipes are to be connected to the hed pit, uno.
- **D11** Down pipes shall be a minimum of dn100 sw grade upvc or 100 x100 colorbond/zincalume steel, uno.
- **D12** Colorbond or zincalume steel box gutters shall be a minimum of 450 wide x 150 deep.
- D13 Eaves gutters shall be a minimum of 125 wide x 100 deep (or of equivalent area) colorbond or zincalume steel, uno.
- **D14** Subsoil drainage shall be provided to all retaining walls & embankments, with the lines feeding into the stormwater drainage system, uno.

EROSION AND SEDIMENT CONTROL NOTES

- E1 These notes are to be read in conjunction with erosion and sediment control details in this drawing set.
- E2 The contractor shall implement all soil erosion and sediment control measures as necessary and to the satisfaction of the relevant local authority 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 the relevant local authority 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".
- E3 Place straw bales length wise in a row as parallel as possible to the site contours, uno. Bale ends to be tightly butted. Bales are to be placed so that straws are parallel to the row. Bales are to be placed 1.5m to 2m downslope from the toe of the disturbed batter, uno.
- E4 Council approved filter fabric to be entrenched 150mm deep upslope towards disturbed surface. Fabric to be a minimum SF2000 or better. Fix fabric to posts with wire ties or as recomended with manufacturer's specifications. Fabric joints to have a minimum of 150mm overlap. Wire to be strung between posts with filter fabric overlap to prevent sagging.
- E5 Stabalised entry/exit points to remain intact until finished driveway is complete. Construction of entry/exit points to be maintained and repaired as required so that it's function is not compromised. Construction of entry/exit point to be in accordance with the detail contained within this drawing set.
- E6 All drainage pipe inlets to be capped until: - downpipes connected - pits constructed and protected with silt barrier
- E6 Provide and maintain silt traps around all surface inlet pits until catchment is revegetated or paved.
- **E7** The contractor shall regularly maintain all erosion and sediment control devices and remove accumulated silt from such devices such that 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 and further as may be directed by the superintendent or council.
- E8 The contractor shall implement dust control by regularly wetting down (but not saturating) disturbed area.
 E9 Topsoil shall be stripped and stockpiled outside hazard areas such as drainage lines. This topsoil shall 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.
- **E10** Lay 300 wide minimum turf strip on 100 topsoil behind all kerb and gutter with 1000 long returns every 6000 and around structures immediately after backfilling as per the relevant local authority specification.
- E11 The contractor shall grass seed all disturbed areas with an approved mix as soon as practicable after
- completion of earthworks and regrading.E12 Revegetate all trenches immediately upon completion of backfilling.
- E13 When any devices are to be handed over to council they shall be in clean and stable condition.

PROPOSED WAREHOUSE AT 186-206 CAPTAIN COOK DRIVE, KURNELL

STANDARD LINE TYPES AND SYMBOLS

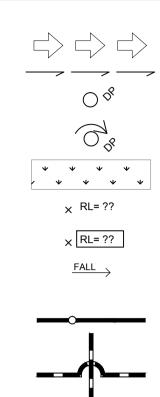
	PROPOSED KERB & GUTTER
	EXISTING KERB & GUTTER
	PROPOSED BELOW GROUND PIPELINE
	PROPOSED SUSPENDED PIPELINE
	EXISTING PIPELINE
SS SS SS	SUBSOIL DRAINAGE LINE
	PROPOSED KERB INLET PIT
	EXISTING KERB INLET PIT
	PROPOSED JUNCTION OR INLET PIT
	EXISTING JUNCTION OR INLET PIT
	DESIGN CENTRELINE
	EXISTING EDGE OF BITUMEN
TTT	TELECOMUNICATION CONDUIT
G G	GAS MAIN
vvv	WATER MAIN
sss	SEWER MAIN
vvv	UNDERGROUND ELECTRICITY CABLES
	PERMANENT MARK & S.S.M.
ΔΔ	BENCH MARK, SURVEY STATION

RECOMMENDED MAINTENANCE SCHEDULE

DISCHARGE CONTROL PIT (DCP)	FREQUENCY	RESPONSIBILI
Inspect flap valve and remove any blockage.	Six monthly	Owner
Inspect screen and clean.	Six monthly	Owner
Inspect & remove any blockage of orifice.	Six monthly	Owner
Inspect dcp sump & remove any sediment-sludge.	Six monthly	Owner
Inspect grate for damage or blockage.	Six monthly	Owner
Inspect return pipe from storage and return any blockage.	Six monthly	Owner
Inspect outlet pipe and remove any blockage.	Six monthly	Maintenance Contractor
Check fixing of step irons is secure.	Six monthly	Maintenance Contractor
Inspect overflow weir & remove any blockage.	Six monthly	Maintenance Contractor
Empty basket at overflow weir (if present).	Six monthly	Maintenance Contractor
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance Contractor
Check attachment of screen to wall of pit.	Annually	Maintenance Contractor
Check screen for corrosion.	Annually	Maintenance Contractor
Check attachment of flap valve to wall of .	Annually	Maintenance Contractor
Check flap valve seals against wall of pit.	Annually	Maintenance Contractor
Check any hinges of flap valve move freely.	Annually	Maintenance Contractor
Inspect dcp walls (internal and external, if appropriate) for cracks or spalling.	Annually	Maintenance Contractor
Check step irons for corrosion.	Annually	Maintenance Contractor
Check orifice diameter correct and retains sharp edge.	Five yearly	Maintenance Contractor
STORAGE		
Inspect & remove any blockage of orifice.	Six monthly	Owner

	<i>c</i>	
Check orifice diameter correct and retains sharp edge.	Six monthly	Owner
Inspect screen and clean.	Six monthly	Owner
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor

STANDARD LINE TYPES AND SYMBOLS



OVERLAND FLOW PATH

GRADED IMPERVIOUS AREA (ROOF, CONC SLABS ETC)

SEDIMENT FENCE

CROSSING PIPES

NODE POINT

LEGEND

AHD AG ARI BG BWL CO DCP DR BG EG EG FW GSID HP IL IO O/F DD PSD RCH RL RT HO SLAP SPR	Australian height datum Ag-pipe (Sub soil drainage) Average recurrence interval Box Gutter Bottom water level Cover level Clean out inspection opening Discharge control pit Down pipe Dropper pipe Existing box gutter Existing down pipe Existing eaves gutter Eaves gutter Fiber reinforced concrete Floor waste Grated drain Grated surface inlet pit High point of gutter Invert level Inspection opening Overflow On-site detention Permissible site discharge Pipe 1 Reinforced concrete pipe Rectangular hollow section Reduced level Rubber ring joint Rainwater re-use tank Rain water outlet Sealed lid access pit Spreader pipe	SS SU TW TWL U/S VG UNO	Stainless steel Box gutter sump Top of wall Top water level Underside of slab Vally gutter Unless noted otherwise
SCH	EDULE OF DRAWIN	GS	
C00.01	GENERAL NOTES		
C01.01	SEDIMENT AND EROSION CONT	ROL PLAN	1
C02.01	STORMWATER DRAINAGE PLAN	SHEET 1	

C02.02 STORMWATER DRAINAGE PLAN SHEET 2

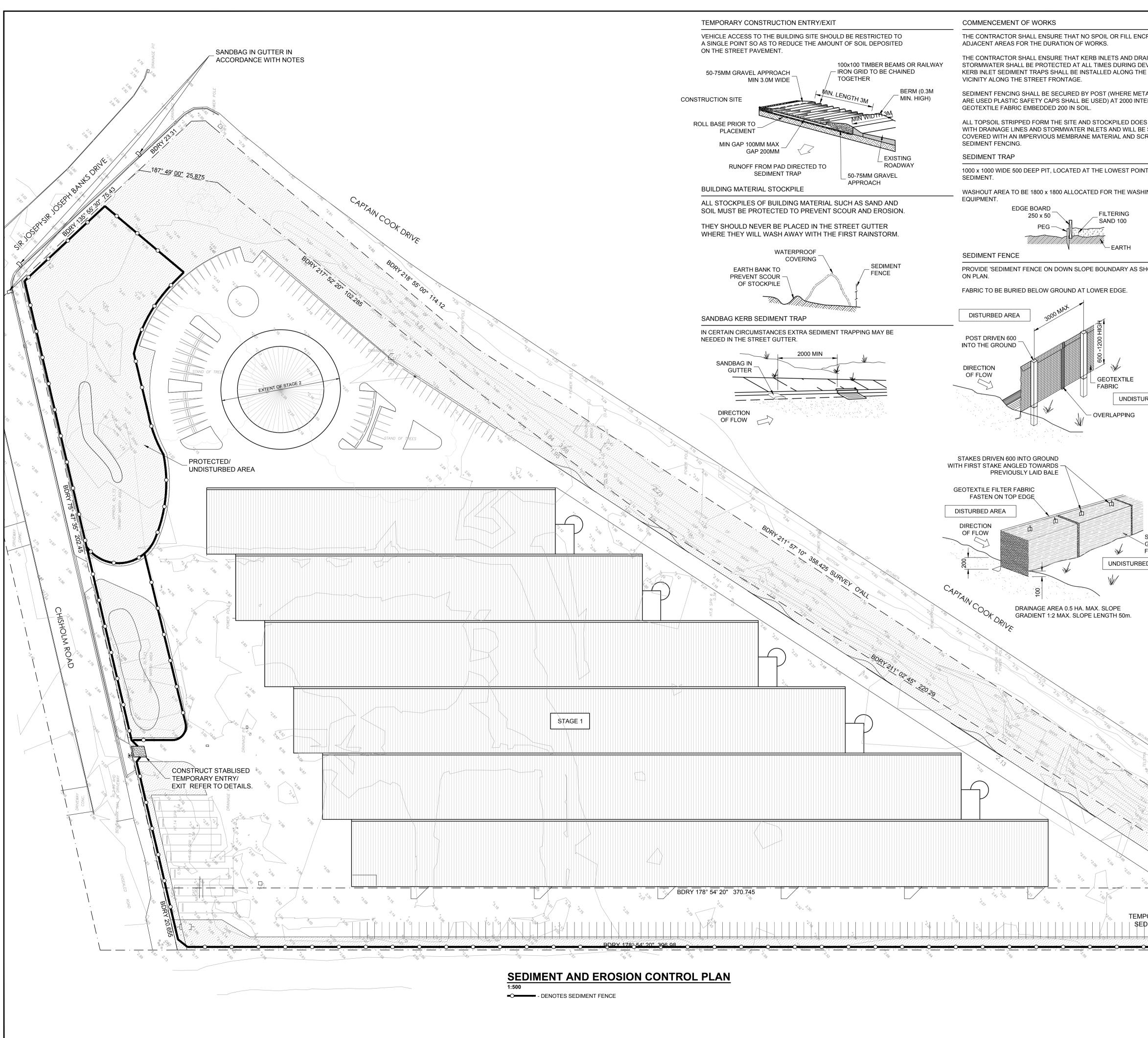
C02.02 STORMWATER DRAINAGE PLAN SHEET 3

C02.03 STORMWATER DETAILS SHEET

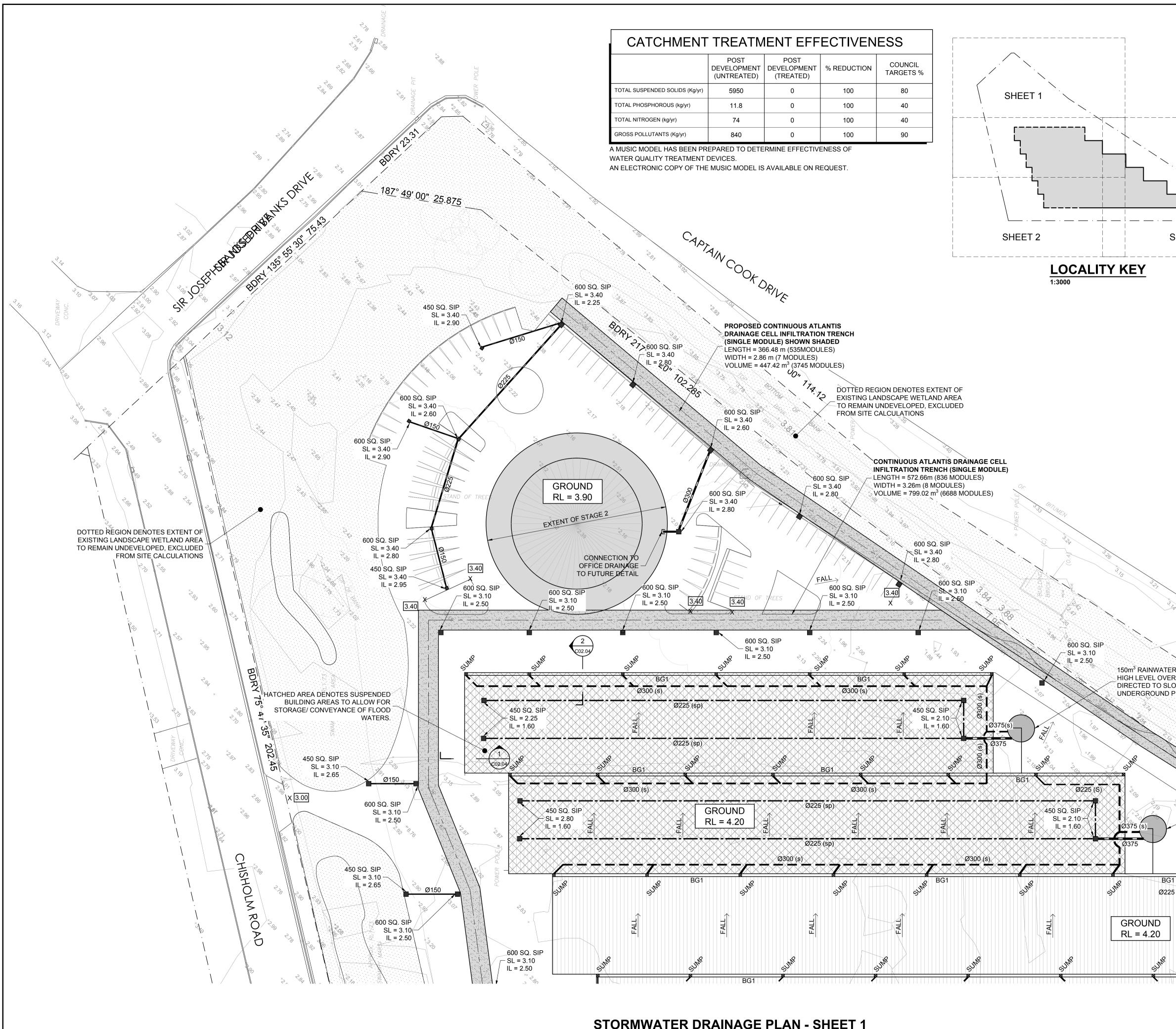
₋ITY	PROCEDURE
	Remove grate. Ensure flap valve moves freely and remove any blockages or debris.
	Revove grate and screen if required and clean it.
	Remove grate & screen to inspect orifice. see plan for location of dcp.
	Remove grate and screen. Remove sediment/sludge build-up and check orifice and flap valve clear.
	Check both sides of grate for corrosion, (especially corners and welds) damage or blockage.
	Remove grate and screen. ventilate underground storage if present. open flap valve and remove any blockages in return line. Check for sludge/debris on upstream side of return line.
	Remove grate and screen. ventilate underground storage if present. Check orifice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.
	Remove grate and ensure fixings secure prior to placing weight on step iron.
	Remove grate and open cover to ventilate underground storage if present. ensure weir clear of blockages.
	Remove grate and ventilate underground storage chamber if present. Empty basket, check fixings secure and not corroded.
	Remove grate and screen. ensure plate mounted securely, tighten fixings if required. seal gaps as required.
	Remove grate and screen. ensure screen fixings secure. repair as required.
	Remove grate and examine screen for rust or corrosion, especially at corners or welds.
	Remove grate. Ensure fixings of valve are secure.
	Remove grate. fill pit with water and check that flap seals against side of pit with minimal leakage.
	Remove grate. Test valve hinge by moving flap to full extent.
	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
	Remove grate. Examine step irons and repair any corrosion or damage.
	Compare diameter to design (see work-as- executed) and ensure edge is not pitted or damaged.
	Remove grate and screen. remove sediment/sludge build-up.
	Remove blockages from grate and check if pit blocked.
	Remove debris and floatable material likely to be carried to grates.
	Remove grate to inspect internal walls. repair as required. clear vegetation from external walls if necessary and repair as required.
	Compare actual storage available with work-as executed plans. If volume loss is greater than 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal.
	Check along drainage lines and at pits for subsidence likely to indicate leakages.

	ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE								
н	H 25.05.18 RE-ISSUED FOR APPROVAL F.I.								
G	G 21.05.18 REVISED STORMWATER LAYOUT F.I.								
F	18.05.18	REVISED TO SUIT ARCHITECTURAL PLANS F.I.							
Е	06.10.17	REVISED TO SUIT ARCHITECTURAL	PLANS	F.I.					
D	06.09.17	REVISED DRAINAGE LAYOUT		0.G.					
REV	/ DATE	DESCRIPTION		BY					
A T tř	COPYRIGHT All rights reserved. These drawings, plans and specifications and the copyright are the property of Engineering Studio and must not be used, reproduced or copied wholly or in part without the written permission of Engineering Studio. Engineering Studio Phone: (02) 8020 2960 Email: info@engineeringstudio.com.au Web: www.engineeringstudio.com.au								
PROPOSED WAREHOUSE AT 186-206 CAPTAIN COOK DRIVE, KURNELL FOR JSA STUDIO									
GENERAL NOTES									
JOB	JOB NUMBER: DWG NUMBER: ORIGINAL SIZE:								
	16624 C00.01 A1								
DES	SIGNED BY:	DATE:		$\overline{}$					
D.	.В.	OCTOBER 2016							
DRA	AWN BY:	SCALE:							
В.	C.	N.T.S.							

NOTE: DO NOT SCALE OFF DRAWINGS, REFER TO



ICROACHES UPON				JUNCTION WITH OTHER				
RAINS RECEIVING DEVELOPMENT.	WRITTEN INSTRU	JCTIONS AS MAY DISCREPANCY S	BE ISSUE	TIONS AND WITH OTHER S D DURING THE COURSE C REFERRED TO THE ENGIN	OF THE	Ē		
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	ALL WORK IS TO ON THE DRAWING			RDANCE WITH THE DETAI	LS SHOWN			
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		CK FILL MATERIAL		E COMPACTED TO THE SA		,		
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	CONTRACTOR TO OTHERWISE.	O OBTAIN ALL AU	THORITY	APPROVALS UNLESS DIRE	CTED			
		-				-		
	WITH	990 "STORMWAT	ER DRAIN	BEEN CARRIED OUT IN A AGE" & AS/NZS 3500.3.2-1		-		
		TO THE NOMINA		LS SHALL BE REFERRED	ТО			
		TO SPECIFIED P	RODUCTS	OR DETAILS SHALL BE R	EFERRED TO)		
URBED AREA	DOWN PIPES SHA COLORBOND OR			00 SW GRADE uPVC OR 10	0 X 100			
	BOX COLORBONI WIDE X 150 DEEF		STEEL. G	UTTERS SHALL BE A MINI	MUM OF 450			
	EAVES GUTTERS EQUIVALENT ARE			125 WIDE X 100 DEEP (OR LUME STEEL.	OF			
	SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM.							
	SEDIMENT AND	EROSION CON	TROL NO	DTES				
	TIMES DURING T	HE COURSE OF C HAS BEEN STABIL	ONSTRUC	BE EFFECTIVELY MAINTAI CTION AND SHALL NOT BE _ANDSCAPED TO THE				
STRAW BALE AND	PROPERTY CONS	SISTING OF 50-75 IESS OF 150 LAID	AGGREG	BE PROVIDED AT THE FR ATE OR SIMILAR MATERIA EDLE-PUNCHED GEOTEX	L AT A			
FILTER BED AREA	SOIL CONSERV		OMMENC	EMENT OF WORKS.				
	PRIOR TO COMMENCEMENT OF CONSTRUCTION PROVIDE 'SEDIMENT FENCE,' 'SEDIMENT TRAP' AND WASHOUT AREA TO ENSURE THE CAPTURE OF WATER BORNE MATERIAL GENERATED FROM THE SITE.							
		BOVE DURING TH	E COURS	E OF CONSTRUCTION, AN	D CLEAR THI	E		
						_		
				CALE OFF DRAWINGS. LANS. VERIFY DIMENSI		Ē		
		H 25.05.18	RE-ISSU	ED FOR APPROVAL		F.I.		
		G 21.05.18 F 18.05.18		O STORMWATER LAYOUT		F.I. F.I.		
TUMER		E 06.10.17		TO SUIT ARCHITECTURA		F.I.		
New York	1	D 06.09.17		D DRAINAGE LAYOUT		0.G.		
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CONSTRUCT IPORARY HAY BALE EDIMENT TRAP, TYP	BORT 30		206 CAF	SED WAREHC PTAIN COOK DRIVE, OR JSA STUDIO		L		
		SEDIMEN			ROL PI	_AN		
⁵ %	^ζ _ζ _ζ	JOB NUMBER:		DWG NUMBER:	ORIGINAL S			
		16624	ŀ	C01.01	A1			



STORMWATER DRAINAGE PLAN - SHEET 1

1:400

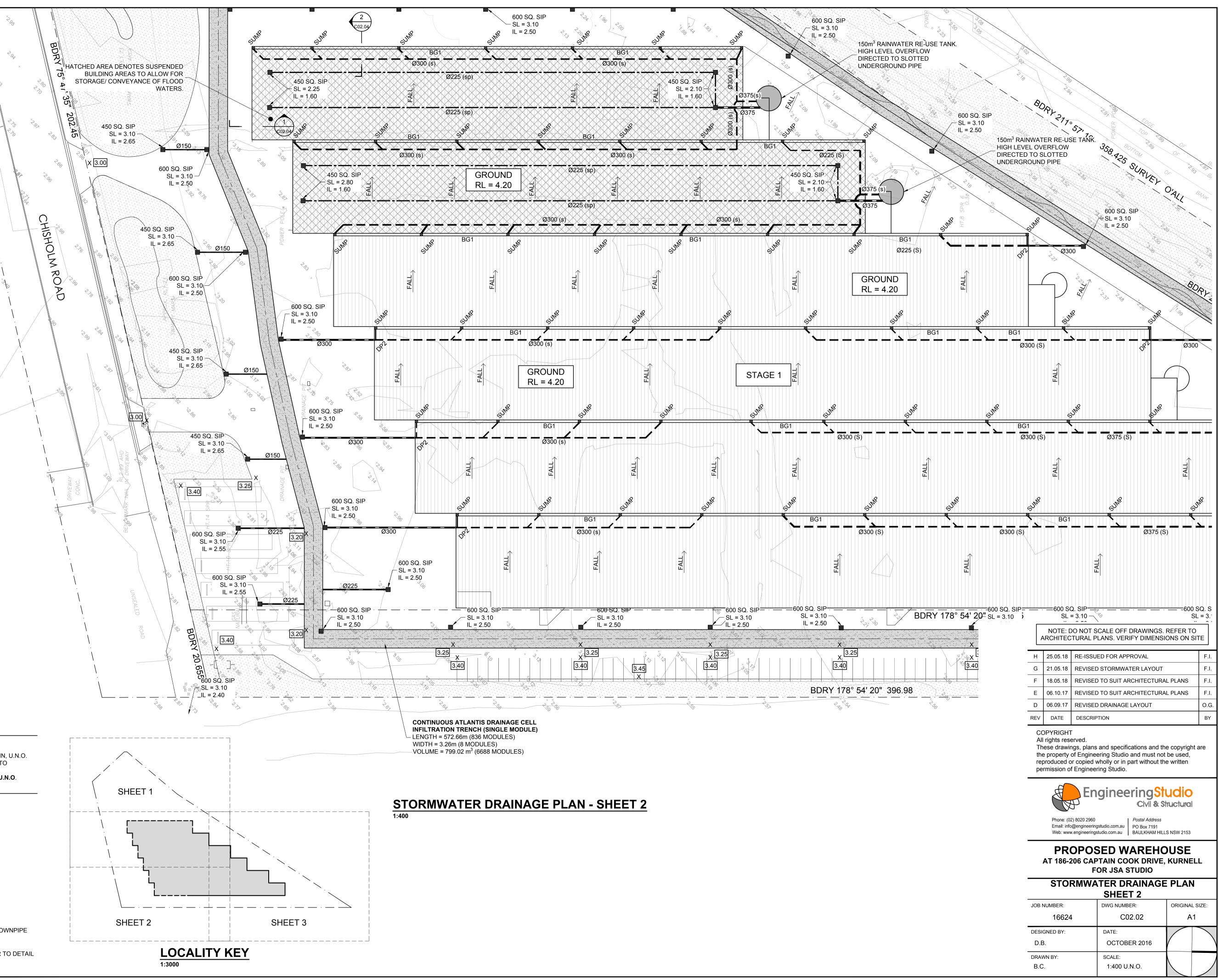
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WATER RE-USE TANK.		WITH Ø225 C DENOTES AE SLOTTED PIF	OVERFLOW PIPE BSORPTION TRENCH, RI PE	EFER TO DET	
L OVERFLOW TO SLOTTED DUND PIPE		ARCHITECTURAL P 25.05.18 RE-ISSU 21.05.18 REVISED 18.05.18 REVISED	SCALE OFF DRAWINGS. PLANS. VERIFY DIMENSI DED FOR APPROVAL D STORMWATER LAYOUT D TO SUIT ARCHITECTURA	ONS ON SITE	F.I. F.I. F.I.
		V DATE DESCRIF COPYRIGHT All rights reserved. These drawings, plans the property of Engine reproduced or copied v permission of Enginee	s and specifications and th ering Studio and must not wholly or in part without th ring Studio.	e copyright are be used, e written	O.G. BY e
BG1		Phone: (02) 8020 2960 Email: info@engineering		tructural	
Ø225 (S)	- 	AT 186-206 CAF F		USE KURNELL	
BG1	DF	16624 ESIGNED BY: D.B. RAWN BY:	C02.01 DATE: OCTOBER 2016 SCALE:	A1	
	E	3.C.	1:400 U.N.O.		

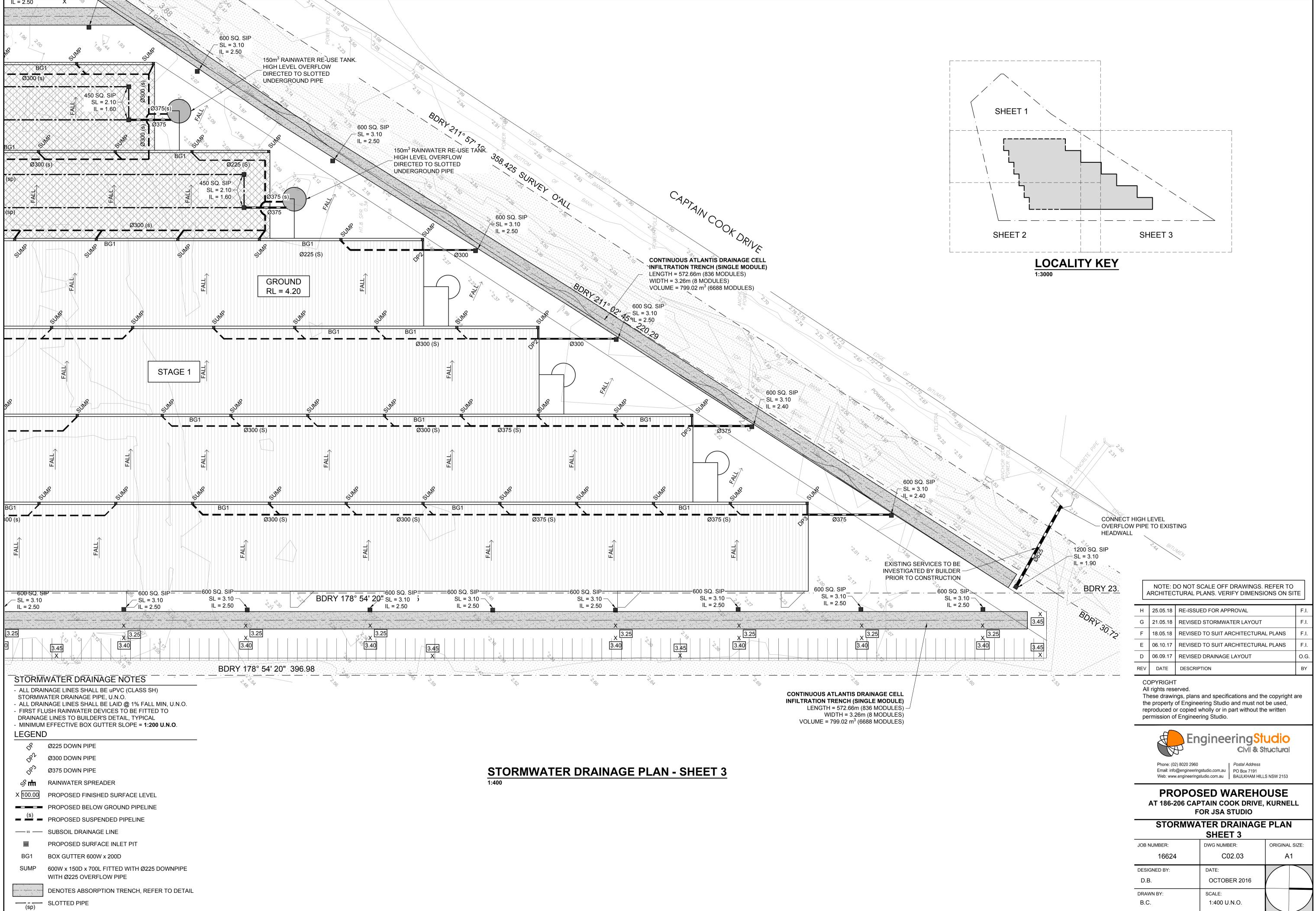


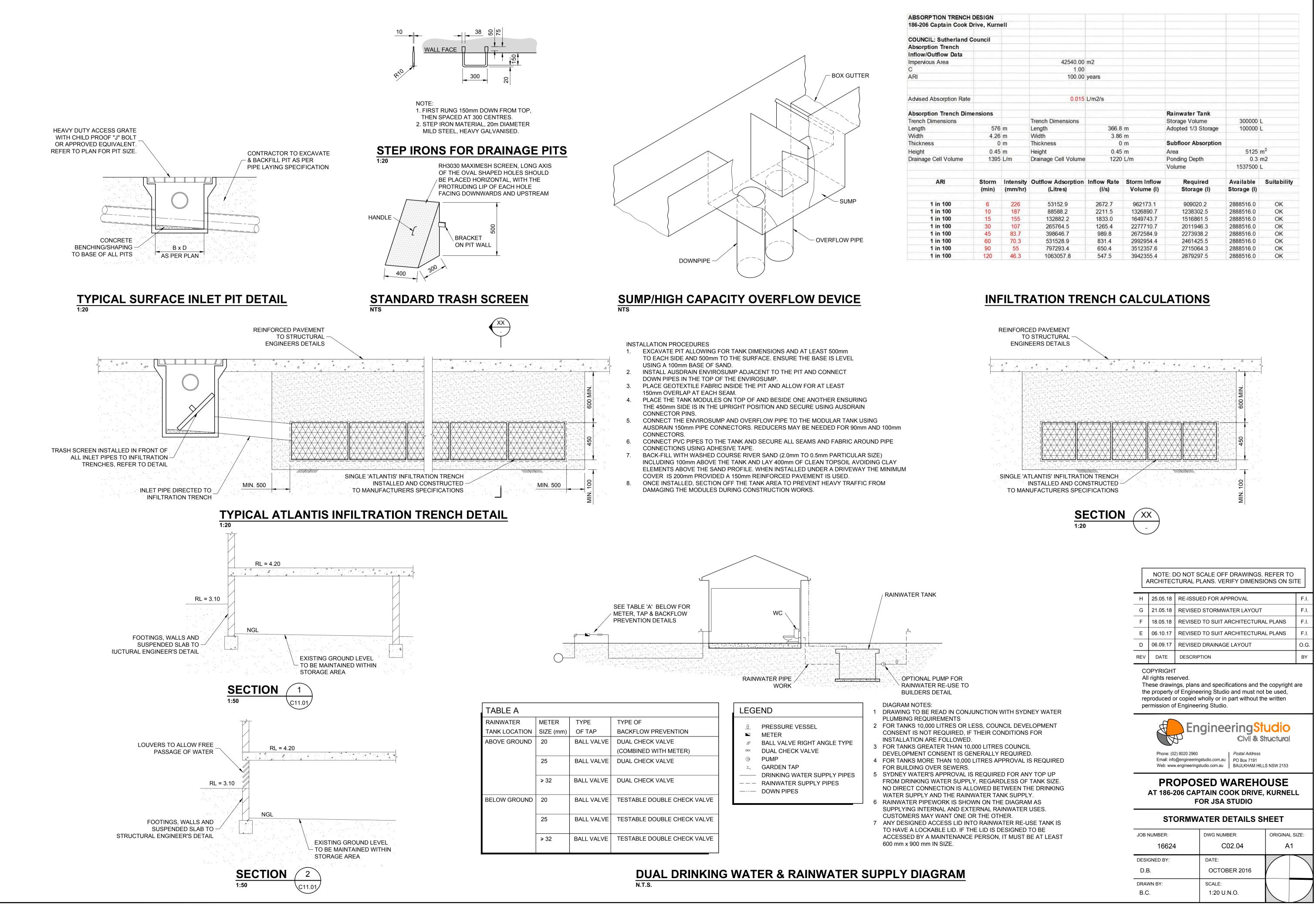
STORMWATER DRAINAGE NOTES

- ALL DRAINAGE LINES SHALL BE uPVC (CLASS SH)

STORMW - ALL DRA - FIRST FL DRAINAG	AGE LINES SHALL BE UP VC (CLASS SH) ATER DRAINAGE PIPE, U.N.O. INAGE LINES SHALL BE LAID @ 1% FALL MIN, U.N.O. USH RAINWATER DEVICES TO BE FITTED TO E LINES TO BUILDER'S DETAIL, TYPICAL 1 EFFECTIVE BOX GUTTER SLOPE = 1:200 U.N.O.		
	Ø225 DOWN PIPE	SHEET 1	
ORD	Ø300 DOWN PIPE		+
0f3	Ø375 DOWN PIPE		\downarrow
ॐ ा⊓	RAINWATER SPREADER		
X 100.00	PROPOSED FINISHED SURFACE LEVEL		
	PROPOSED BELOW GROUND PIPELINE	tt	
(S)	PROPOSED SUSPENDED PIPELINE		
ss	SUBSOIL DRAINAGE LINE		
	PROPOSED SURFACE INLET PIT		
BG1	BOX GUTTER 600W x 200D	SHEET 2	SHEET 3
SUMP	600W x 150D x 700L FITTED WITH Ø225 DOWNPIPE WITH Ø225 OVERFLOW PIPE		⊥
	DENOTES ABSORPTION TRENCH, REFER TO DETAIL	LOCALITY	KEY
(sp)	SLOTTED PIPE	1:3000	



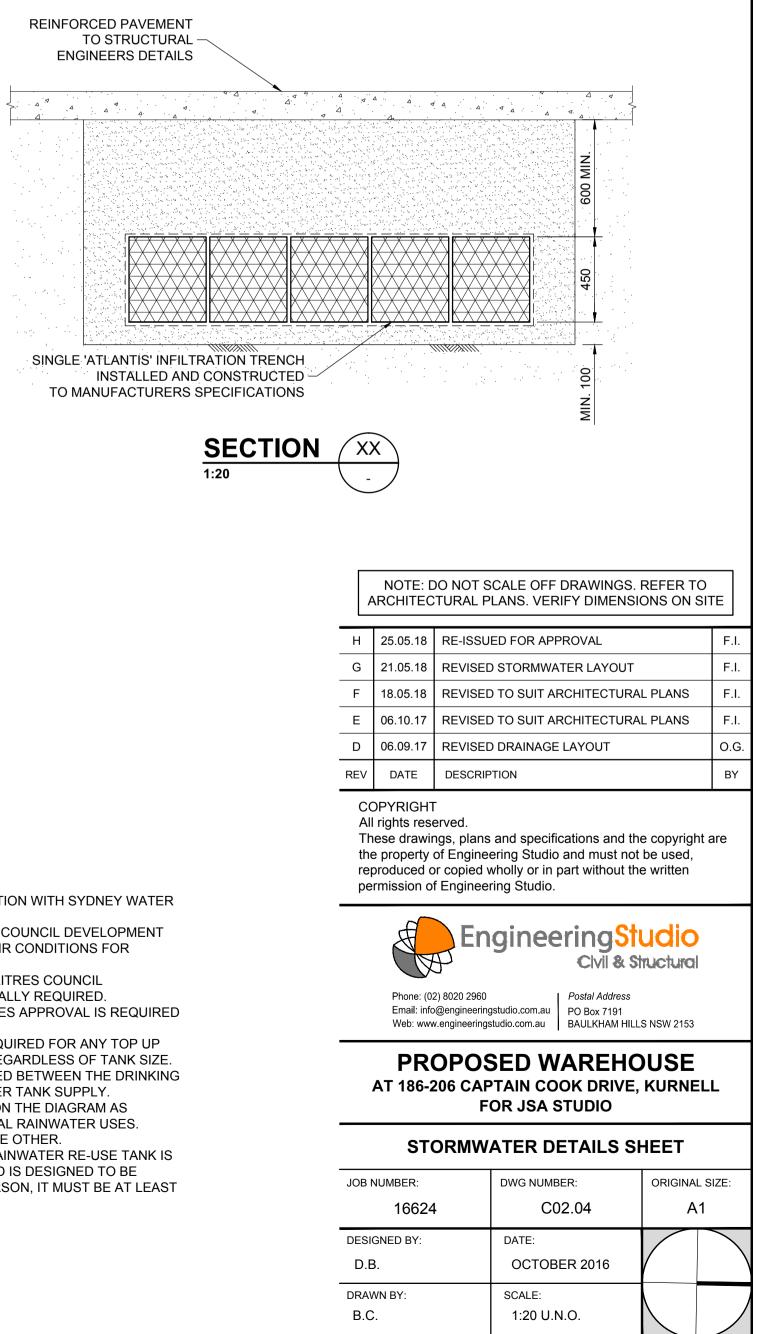




SSPP (Sydney South) Report Appendices (2017SSH0007)

ABSORPTION TRENCH	DESIGN							
186-206 Captain Cook Dr	rive, Kurn	ell						
COUNCIL: Sutherland Co	ouncil							
Absorption Trench								
Inflow/Outflow Data								
Impervious Area			42540.00	m2				
C			1.00					
ARI			100.00	years				
								11
Advised Absorption Rate			0.015	L/m2/s				
Absorption Trench Dime	nelene					Rainwater Tank		
	nsions		Tranch Dimensions			a the set of the set of the set of the	200000	
Trench Dimensions	570		Trench Dimensions	200.0		Storage Volume	300000	
Length	576	1.0.101	Length	366.8		Adopted 1/3 Storage	100000	L
Width	4.26		Width	3.86		Out days the section		
Thickness		m	Thickness		m	Subfloor Absorption		2
Height	0.45 m		Height	0.45		Area	5125 m ²	
Drainage Cell Volume	1395 L/m		Drainage Cell Volume	1220	L/m	Ponding Depth	0.3 m2	
						Volume	1537500	L
ARI	Storm	Intensity	Outflow Adsorption	Inflow Rate	Storm Inflow	Required	Available	Suitability
	(min)	(mm/hr)	(Litres)	(l/s)	Volume (I)	Storage (I)	Storage (I)	
1 in 100	6	226	53152.9	2672.7	962173.1	909020.2	2888516.0	OK
1 in 100	10	187	88588.2	2211.5	1326890.7	1238302.5	2888516.0	OK
1 in 100	15	155	132882.2	1833.0	1649743.7	1516861.5	2888516.0	OK
1 in 100	30	107	265764.5	1265.4	2277710.7	2011946.3	2888516.0	OK
1 in 100	45	83.7	398646.7	989.8	2672584.9	2273938.2	2888516.0	OK
1 in 100	60	70.3	531528.9	831.4	2992954.4	2461425.5	2888516.0	OK
1 in 100	90	55	797293.4	650.4	3512357.6	2715064.3	2888516.0	OK
1 in 100	120	46.3	1063057.8	547.5	3942355.4	2879297.5	2888516.0	OK







Vegetation Management Plan

186 – 206 Captain Cook Drive, Kurnell, NSW 2231

Report Prepared for Taleb Property Pty Ltd

c/o AMBS Ecology & Heritage Pty Ltd

August 2017