

Ref.: 18659-002-ccdc

Compliance Certificate - Design

I certify that the item/s described below, if installed or carried out in accordance with the information contained in this certificate, including any referenced documentation, will comply with the Building Code of Australia.

Client to whom this Certificate has been issued:

Gremmo Homes

Description of Component/s Certified:

• Proposed Development Stormwater Drainage: 1 Pitt Road, Curl Curl

Basis of Certification:

- Australian Standards Civil: AS/NZS 3500.3: 2003
- Northern Beaches Council: Stormwater Specifications

Referenced Documentation:

• Civil drawings: 18659 – C00.01, C01.01, C01.02, C02.01, C02.02, C02.03 – Revision B

Conditions of Development Consent:

DA Number: N/AConditions: N/A

Competent Person Details:

Name :	Ben Carruthers
Organisation:	Engineering Studio Pty Ltd
Relevant Qualifications:	BE MIEAust CPEng NER
Address:	P.O. Box 7191, Baulkham Hills BC NSW 2153
Phone :	(02) 8020 2960
Registration/ Accreditation	MIEAust CPEng NER (Civil and Structural)
Details :	IEAust 2737567
Signature :	Doubt

PROPOSED SINGLE RESIDENCE AT 1 PITT ROAD, CURL CURL

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 Superindent heter 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.
- 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.
- 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.
- 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
- 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 the contractors expense.
- 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
- 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

- 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:

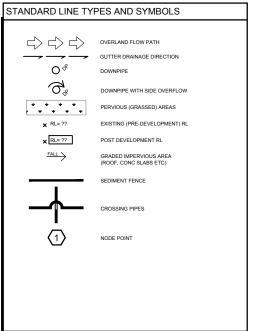
- All pits within the property to be constructed as one of the following:
 1) Precast stormwater pits
 2) Cast insitu mass concrete
 3) Cement rendered 230mm brickwork subject to the relevant local authority construction specification.
- D5 Ensure all grates to pits are set below finished surface level 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

- 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

- 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 sits 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".
- 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.
- 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
- E6 All drainage pipe inlets to be capped until:
- 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.
- 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.

STANDARD LINE TYPES AND SYMBOLS				
	PROPOSED KERB & GUTTER			
	EXISTING KERB & GUTTER			
	PROPOSED BELOW GROUND PIPELINE			
	PROPOSED SUSPENDED PIPELINE			
	EXISTING PIPELINE			
— 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			
— т —	TELECOMUNICATION CONDUIT			
—— с ——	GAS MAIN			
w	WATER MAIN			
s	SEWER MAIN			
v	UNDERGROUND ELECTRICITY CABLES			
0	PERMANENT MARK & S.S.M.			
Δ Δ	BENCH MARK, SURVEY STATION			



AHD AG	Australian height datum Ag-pipe (Sub soil drainage)	SS	Stainless steel Box gutter sump
ARI	Ag-pipe (Sub soil drainage) Average recurrence interval	TW	Top of wall
BG	Box Gutter	TWI	Top water level
BWI	Bottom water level	U/S	Underside of slab
CI	Cover level	VG	Vally gutter
CO	Clean out inspection opening	UNO	Unless noted otherwise
DCP	Discharge control pit	0.10	Chicos hotes calcivise
DP	Down pipe		
DRP	Dropper pipe		
EBG	Existing box gutter		
EDP	Existing down pipe		
EEG	Existing eaves gutter		
EG	Eaves gutter		
FRC	Fiber reinforced concrete		
FW	Floor waste		
GD	Grated drain		
GSIP	Grated surface inlet pit		
HED	High early discharge		
HP	High point of gutter		
IL	Invert level		
10	Inspection opening		
O/F	Overflow		
OSD	On-site detention		
PSD P1	Permissible site discharge Pipe 1		
RCP	Reinforced concrete pipe		
RHS	Rectangular hollow section		
RL	Reduced level		
RRJ	Rubber ring joint		
RRT	Rainwater re-use tank		
RWH	Rain water head		
RWO	Rain water outlet		
SLAP	Sealed lid access pit		
SP	Spreader pipe		
SPR	Spreader		

	1		
DISCHARGE CONTROL PIT (DCP)	FREQUENCY	RESPONSIBILITY	PROCEDURE
Inspect flap valve and remove any blockage.	Six monthly	Owner	Remove grate. Ensure flap valve moves freely and remove any blockages or debris.
Inspect screen and clean.	Six monthly	Owner	Revove grate and screen if required and clean it.
Inspect & remove any blockage of orifice.	Six monthly	Owner	Remove grate & screen to inspect orifice. see plan for location of dcp.
Inspect dcp sump & remove any sediment-sludge.	Six monthly	Owner	Remove grate and screen. Remove sediment/sludge build-up and check orifice and flap valve clear.
Inspect grate for damage or blockage.	Six monthly	Owner	Check both sides of grate for corrosion, (especially corners and welds) damage or blockage.
Inspect return pipe from storage and return any blockage.	Six monthly	Owner	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.
Inspect outlet pipe and remove any blockage.	Six monthly	Maintenance Contractor	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.
Check fixing of step irons is secure.	Six monthly	Maintenance Contractor	Remove grate and ensure fixings secure prior to placing weight on step iron.
Inspect overflow weir & remove any blockage.	Six monthly	Maintenance Contractor	Remove grate and open cover to ventilate underground storage if present. ensure weir clear of blockages.
Empty basket at overflow weir (if present).	Six monthly	Maintenance Contractor	Remove grate and ventilate underground storage chamber if present. Empty basket, check fixings secure and not corroded.
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance Contractor	Remove grate and screen. ensure plate mounted securely, tighten fixings if required. seal gaps as required.
Check attachment of screen to wall of pit.	Annually	Maintenance Contractor	Remove grate and screen. ensure screen fixings secure. repair as required.
Check screen for corrosion.	Annually	Maintenance Contractor	Remove grate and examine screen for rust or corrosion, especially at corners or welds.
Check attachment of flap valve to wall of .	Annually	Maintenance Contractor	Remove grate. Ensure fixings of valve are secure.
Check flap valve seals against wall of pit.	Annually	Maintenance Contractor	Remove grate. fill pit with water and check that flap seals against side of pit with minimal leakage.
Check any hinges of flap valve move freely.	Annually	Maintenance Contractor	Remove grate. Test valve hinge by moving flap to full extent.
Inspect dcp walls (internal and external, if appropriate) for cracks or spalling.	Annually	Maintenance Contractor	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
Check step irons for corrosion.	Annually	Maintenance Contractor	Remove grate. Examine step irons and repair any corrosion or damage.
Check orifice diameter correct and retains sharp edge.	Five yearly	Maintenance Contractor	Compare diameter to design (see work-as- executed) and ensure edge is not pitted or damaged.
STORAGE			
Inspect & remove any blockage of orifice.	Six monthly	Owner	Remove grate and screen. remove sediment/sludge build-up.
Check orifice diameter correct and retains sharp edge.	Six monthly	Owner	Remove blockages from grate and check if pit blocked.
Inspect screen and clean.	Six monthly	Owner	Remove debris and floatable material likely to be carried to grates.
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance	Remove grate to inspect internal walls. repair as required. clear vegetation from external walls if necessary and repair as required.
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor	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 attachment of screen to wall of pit.	Five yearly	Maintenance Contractor	Check along drainage lines and at pits for subsidence likely to indicate leakages.

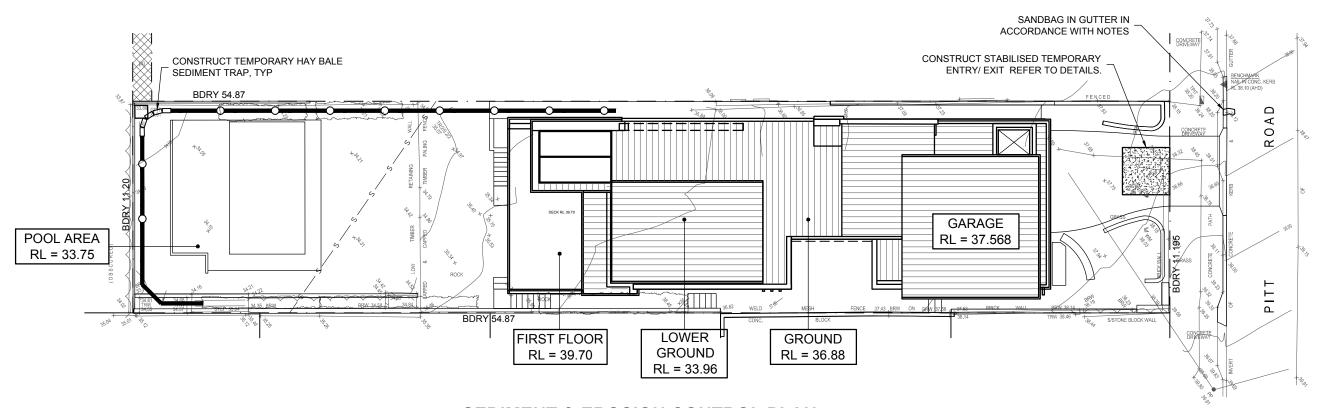
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REV	DATE	DESCRIPTION	BY	

EngineeringStudio Civil & Structural

ROPOSED SINGLE RESIDENCE AT 1 PITT ROAD, CURL CURL	JOB NUMBER: 18659	DWG NUMBER: C00.01	ORIGINAL SIZE	
FOR GREMMO HOMES	DESIGNED BY: O.G.	DATE: SEPTEMBER 2018		
GENERAL NOTES	DRAWN BY: O.G.	SCALE: N.T.S	H	

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

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SEDIMENT & EROSION CONTROL PLAN

1:200

- DENOTES SEDIMENT FENCE

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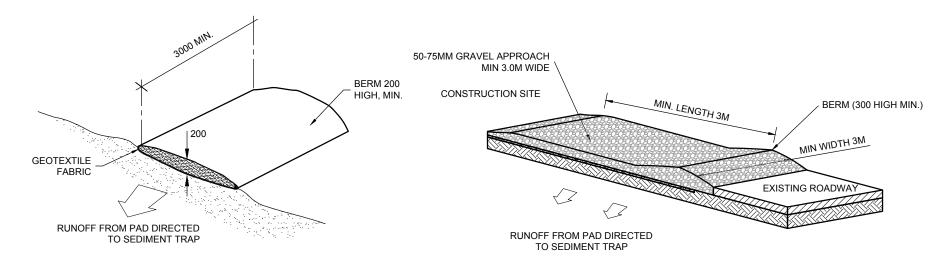
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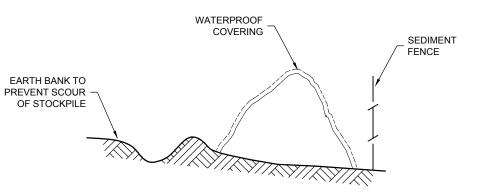
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AT 1 PITT ROAD, CURL CURL
FOR GREMMO HOMES

SEDIMENT & EROSION

CONTROL PLAN

| Designed by: | Date: | September 2018 | Designed by: | Designed by: | Date: | Date:





OPTION 1 - EXISTING DRIVEWAY TO REMAIN

OPTION 2 - DRIVEWAY TO BE RENEWED

VEHICLE ACCESS TO SITE

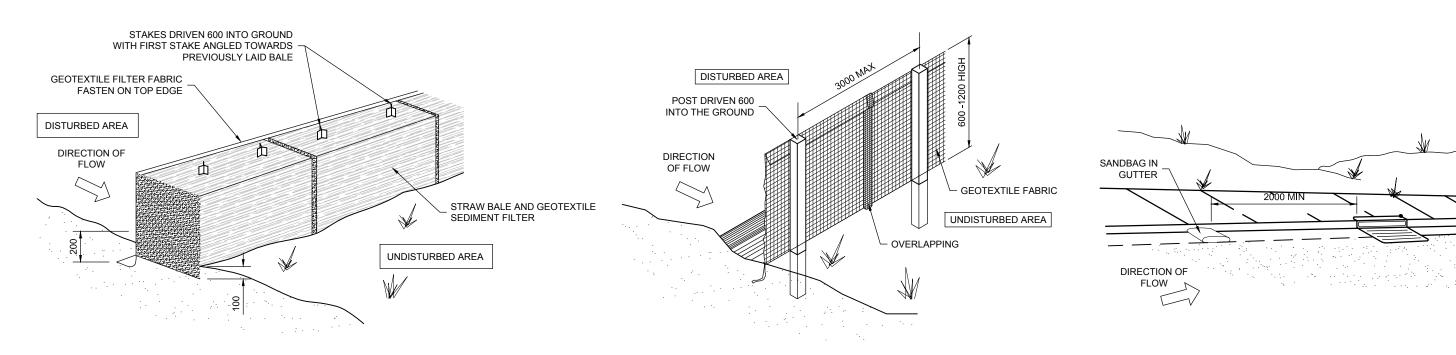
VEHICLE ACCESS TO THE BUILDING SITE SHOULD BE RESTRICTED TO A SINGLE POINT SO AS TO REDUCE THE AMOUNT OF SOIL DEPOSITED ON THE STREET PAVEMENT.

BUILDING MATERIAL STOCKPILES

N.T.S

ALL STOCKPILES OF BUILDING MATERIAL SUCH AS SAND AND SOIL MUST BE PROTECTED TO PREVENT SCOUR AND EROSION.

THEY SHOULD NEVER BE PLACED IN THE STREET GUTTER WHERE THEY WILL WASH AWAY WITH THE FIRST RAINSTORM.



STRAW BALE DETAIL

SEDIMENT AND EROSION FENCE DETAIL

SANDBAG KERB SEDIMENT TRAP

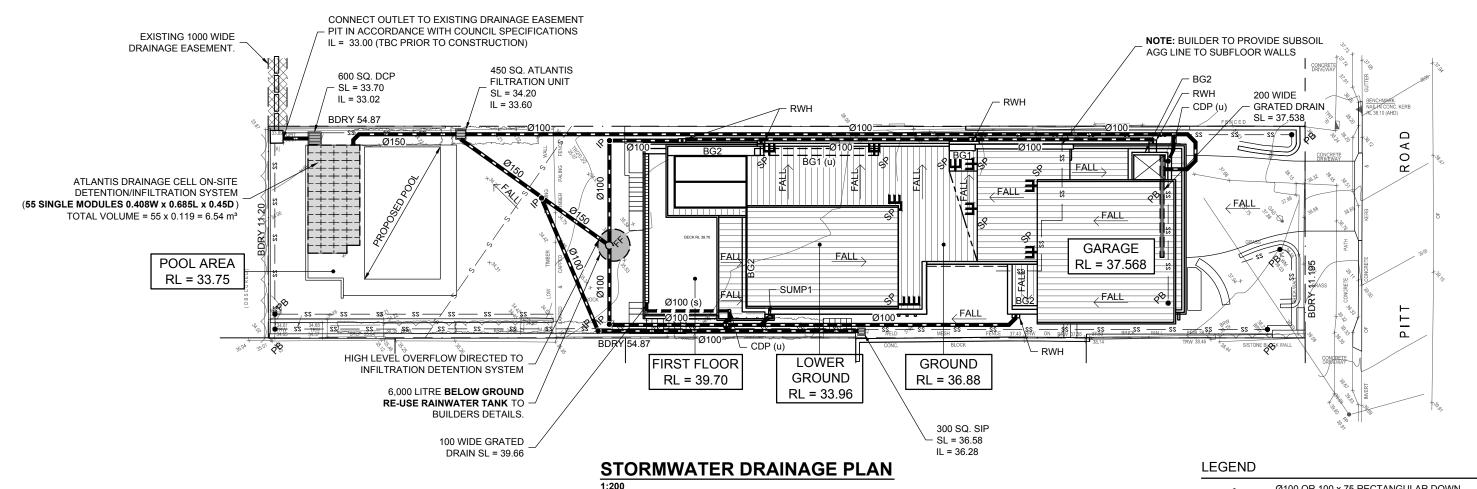
IN CERTAIN CIRCUMSTANCES EXTRA SEDIMENT TRAPPING MAY BE NEEDED IN THE STREET GUTTER.

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02) 8020 2960	Postal Address	CEDIMENT

PROPOSED SINGLE RESIDENCE	JOB NUMBER:	DWG NUMBER:	
AT 1 PITT ROAD, CURL CURL	18659	C01.02	
FOR GREMMO HOMES	DESIGNED BY:	DATE:	
	O.G.	SEPTEMBER 2018	
SEDIMENT & EROSION	DRAWN BY:	SCALE:	
CONTROL DETAILS	O.G.	1:20 U.N.O	



STORMWATER DESIGN SUMMARY

COUNCIL: NORTHERN BEACHES COUNCIL 100 YEAR, 5 MIN STORM: 262 mm/h 20 YEAR, 5 MIN STORM: 200 mm/h

TOTAL SITE AREA $= 614.4 \text{ m}^2$

PROPOSED BUILDING FOOTPRINT $= 230.7 \text{ m}^2$ IMPERVIOUS PATHS & DRIVEWAYS $= 117.8 \text{ m}^2$ TOTAL IMPERVIOUS SITE AREA = m² IMPERVIOUS SITE PERCENTAGE = %

100% NEW ROOF AREA DIRECTED TO 6,000 LITRE BELOW GROUND RE-USE RAINWATER TANK TO BUILDERS DETAILS.

HIGH LEVEL OVERFLOW DIRECTED TO PROPOSED ATLANTIS DRAINAGE CELLS. DISCHARGE CONTROL PIT OVERFLOW DIRECTED TO EXISTING EASEMENT DRAINAGE PIT VIA GRAVITY IN ACCORDANCE WITH COUNCIL STORMWATER CODE.

STORMWATER DRAINAGE NOTES

- ALL DRAINAGE LINES SHALL BE uPVC (CLASS SH) STORMWATER DRAINAGE PIPE, U.N.O.
- ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, U.N.O.
- FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL
- MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500 U.N.O.
- MINIMUM EFFECTIVE EAVES GUTTER SIZE = 7800 mm²

ON-SITE DETENTION DESIGN SUMMARY

ON-SITE DETENTION REQUIRED FOR PROPOSED SINGLE RESIDENTIAL DEVELOPMENT IN ACCORDANCE WITH THE 'NORTHERN BEACHES STORMWATER DEVELOPMENT CONTROL **PLAN SECTION 4.2.1'**

STREAMLINE METHOD

BASIC STORAGE VOLUME $= 200 \text{ m}^3/\text{ha}$ BASIC DISCHARGE RATE = 400 l/s/ha DETERMINED SITE STORAGE REQUIREMENT $= 12.29 \text{ m}^3$ DETERMINED PERMISSIBLE SITE DISCHARGE = 24.57 l/s MAXIMUM HEAD TO ORIFICE CENTRE LINE = 0.70 mDETERMINED ORIFICE DIAMETER = 33.20mm STORAGE PROVIDED IN RAINWATER RE-USE TANK = 6.00 m³ STORAGE PROVIDED IN ATLANTIS DRAINAGE CELL = 6.54 m³

TOTAL ON-SITE DETENTION STORAGE PROVIDED = 12.54 m³

BOND BREAKER TAPE & REINFORCEMENT TO APPROVED SEALANT STRUCTURAL ENGINEER'S 200 150 200 STOP REINFORCEMENT 50 **DETAILS CLEAR OF JOINT** 50 KEY JOINT-K.J. **KEYWAY DETAIL** TYPICAL GRATED DRAIN DETAIL

Ø100 OR 100 x 75 RECTANGULAR DOWN જ PIPE, U.N.O. Q

DENOTES CONCEALED DOWNPIPE

₹¢ DENOTES PLANTER BOX DRAIN

8 INSPECTION POINT

क्षामा RAINWATER SPREADER

ŔΦ FIRST FLUSH RAINWATER DEVICE TO

BUILDERS DETAIL

X 100.00 PROPOSED FINISHED SURFACE LEVEL

PROPOSED BELOW GROUND PIPELINE

CHARGED PIPE (c)

PROPOSED SURFACE INLET PIT

GUTTER HIGH POINT HP

DENOTES BOX GUTTER HIDDEN BELOW BG (u)

360W x 120D BOX GUTTER BG1

360W x 180D x 150L RAINWATER HEAD RWH FITTED WITH Ø100 DOWNPIPE

BG2 200W x 100D BOX GUTTER

200W x 150D x 600L SUMP

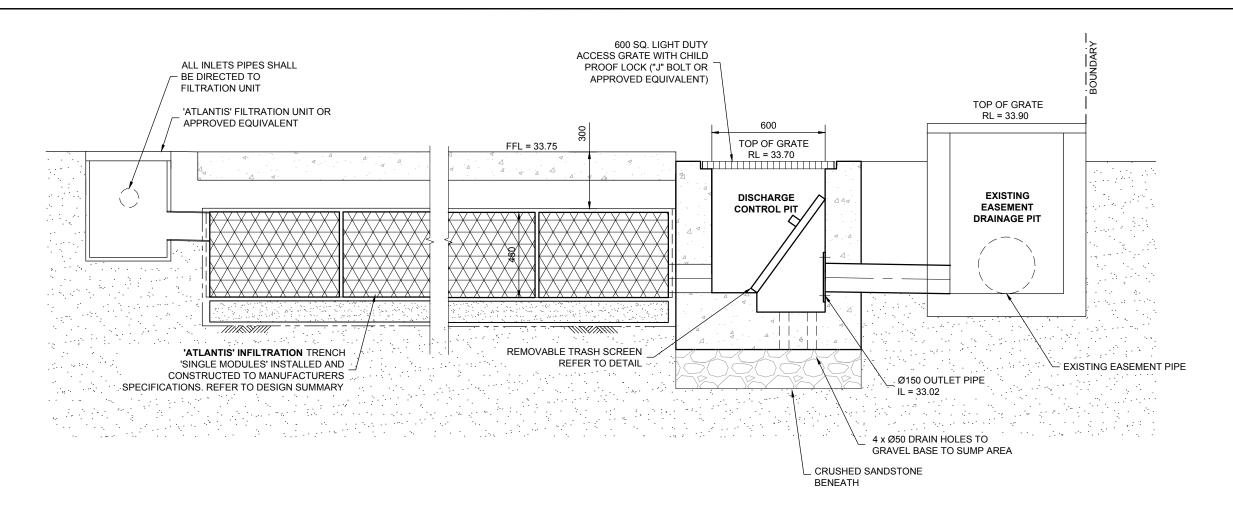
FITTED WITH 2\ Ø90 DOWNPIPES

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PROPOSED SINGLE RESIDENCE AT 1 PITT ROAD, CURL CURL	
FOR GREMMO HOMES	Γ
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STORMWATER DRAINAGE PLAN	Г

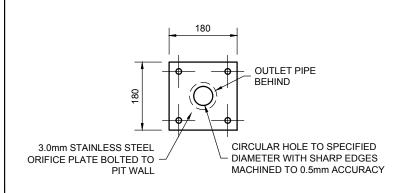
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ATLANTIS DRAINAGE MODULE/ DISCHARGE CONTROL PIT SECTION DETAIL

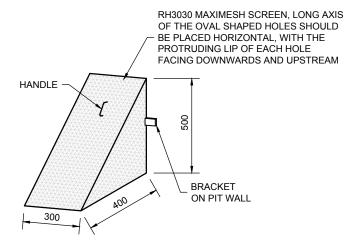
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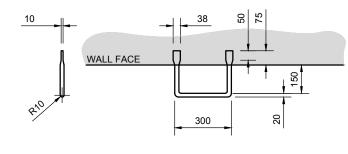


NOTE: REFER TO ON-SITE DETENTION DESIGN SUMMARY FOR ORIFICE SIZE

ORIFICE PLATE DETAIL



STANDARD TRASH SCREEN



NOTE:

- 1. FIRST RUNG 150mm DOWN FROM TOP,
- THEN SPACED AT 300 CENTRES.
 2. STEP IRON MATERIAL. 20m DIAMETER
- MILD STEEL, HEAVY GALVANISED.

STEP IRONS FOR DRAINAGE PITS

TYPICAL FLAP VALVE DETAIL

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PROPOSED SINGLE RESIDENCE AT 1 PITT ROAD, CURL CURL	JOE
FOR GREMMO HOMES	DE:
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STORMWATER DETAILS SHEET 1	DR

WILMAC FLEXIBLE FLAP VALVE OR APPROVED

EQUIVALENT

ICE	JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:	
ICE	18659	C02.02	A3	
	DESIGNED BY:	DATE:		
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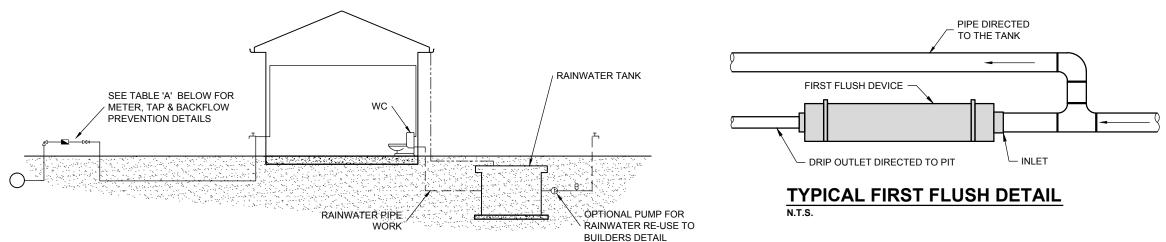


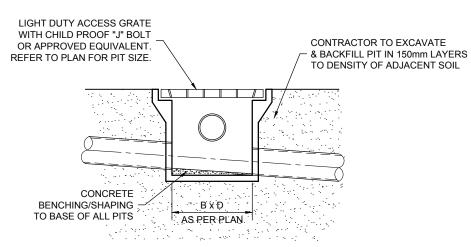
TABLE A			
RAINWATER	METER	TYPE	TYPE OF
TANK LOCATION	SIZE (mm)	OF TAP	BACKFLOW PREVENTION
ABOVE GROUND	20	BALL VALVE	DUAL CHECK VALVE
			(COMBINED WITH METER)
	25	BALL VALVE	DUAL CHECK VALVE
	≥ 32	BALL VALVE	DUAL CHECK VALVE
BELOW GROUND	20	BALL VALVE	TESTABLE DOUBLE CHECK VALVE
	25	BALL VALVE	TESTABLE DOUBLE CHECK VALVE
	≥ 32	BALL VALVE	TESTABLE DOUBLE CHECK VALVE

LEGEND PRESSURE VESSEL METER

PUMP

- BALL VALVE RIGHT ANGLE TYPE DUAL CHECK VALVE **(b)**
- **GARDEN TAP** DRINKING WATER SUPPLY PIPES — — RAINWATER SUPPLY PIPES
- --- DOWN PIPES

- DIAGRAM NOTES:
- DRAWING TO BE READ IN CONJUNCTION WITH SYDNEY WATER 2 PLUMBING REQUIREMENTS
- FOR TANKS 10,000 LITRES OR LESS, COUNCIL DEVELOPMENT CONSENT IS NOT REQUIRED, IF THEIR CONDITIONS FOR
- INSTALLATION ARE FOLLOWED.
- FOR TANKS GREATER THAN 10,000 LITRES COUNCIL 4 DEVELOPMENT CONSENT IS GENERALLY REQUIRED.
- FOR TANKS MORE THAN 10,000 LITRES APPROVAL IS REQUIRED
- FOR BUILDING OVER SEWERS. SYDNEY WATER'S APPROVAL IS REQUIRED FOR ANY TOP UP FROM DRINKING WATER SUPPLY, REGARDLESS OF TANK SIZE. NO DIRECT CONNECTION IS ALLOWED BETWEEN THE DRINKING
- WATER SUPPLY AND THE RAINWATER TANK SUPPLY. RAINWATER PIPEWORK IS SHOWN ON THE DIAGRAM AS SUPPLYING INTERNAL AND EXTERNAL RAINWATER USES.
- CUSTOMERS MAY WANT ONE OR THE OTHER. ANY DESIGNED ACCESS LID INTO RAINWATER RE-USE TANK IS TO HAVE A LOCKABLE LID. IF THE LID IS DESIGNED TO BE ACCESSED BY A MAINTENANCE PERSON, IT MUST BE AT LEAST 600 mm x 900 mm IN SIZE.

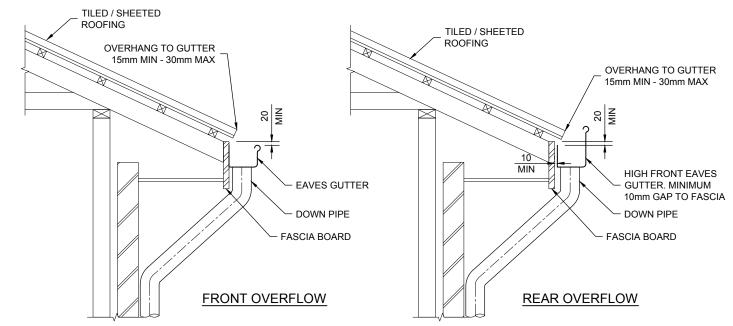


DUAL DRINKING WATER & RAINWATER SUPPLY DIAGRAM

PARAPET WALL 100 x 50 OVERFLOW DUCT BOX GUTTER INVERT RAINWATER HEAD DIMENSIONS AS BOX GUTTER DIMENSIONS AS PER DESIGN SUMMARY NOTES PER DESIGN SUMMARY NOTES Ø90 DOWNPIPE (DIA. AS PER PLAN)



TYPICAL SURFACE INLET PIT DETAIL



TYPICAL EAVES GUTTER DETAIL

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PROPOSED SINGLE RESIDENCE				
FOR GREMMO HOMES	DES			
	0.			
STORMWATER DETAILS SHEET 2	DRA			

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