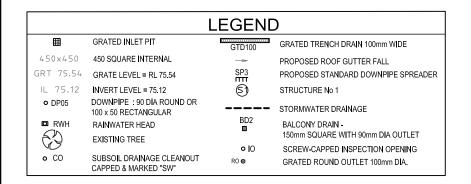
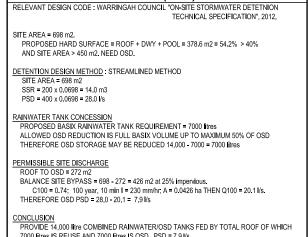
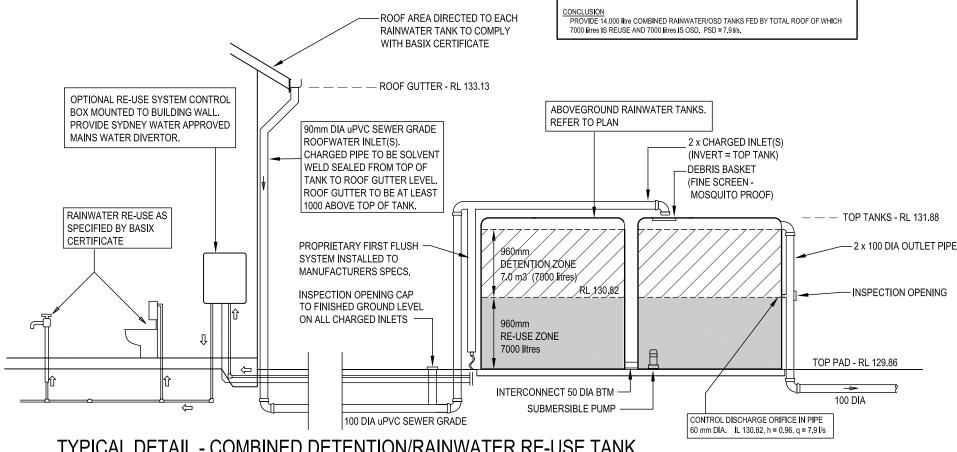
## STORMWATER MANAGEMENT PLAN PROPOSED RESIDENTIAL DEVELOPMENT Lot 33, No 12 SPRINGVALE AVENUE, FRENCHS FOREST





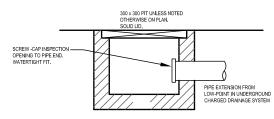
**WARRINGAH DETENTION (OSD) CALCULATIONS** 

MINIMUM PIPE COVER (FROM FINISHED SURFACE TO TOP OF PIPE)				
LOCATION	MINIMUM COVE CAST/DUCTILE IRON GAL STEEL			
1. NOT SUBJECT TO VEHICULAR LOADING:  A. WITHOUT PAVEMENT: I. FOR SINGLE DWELLINGS - II. OTHER THAN SINGLE DWELLINGS - B. WITH PAVEMENT OF BRICKIUNREINFORCED CONCRETE -	0 0 0 (**)	100 300 50 (**)		
2. SUBJECT TO VEHICULAR LOADING: A. OTHER THAN ROADS: I. WITHOUT PAYEMENT- II. WITH PAYEMENT OF: REINF. CONC. FOR HEAVY VEHICLES - BRICKUNNENF. CONC LIGHT VEHICLES B. ROADS I. SEALED	300 0 (** #) 0 (** #) 300	450 100 (** #) 75 (** #)		
ii. UNSEALED  3. SUBJECT TO CONSTRUCTION VEHICLES OR IN EMBANKMENT CONDITIONS	300	500 (#) 500 (#)		



## **GENERAL NOTES**

- 1. FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.
- 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTS AND OTHER CONSULTANTS DRAWINGS. ANY DISCREPANCIES TO BE REFERRED TO THE ENGINEER
- BEFORE PROCEEDING WITH WORK. 3. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH
- AS/NZS 3500.3:2003 STORMWATER DRAINAGE, BCA AND LOCAL COUNCIL POLICY/CONSENT/REQUIREMENTS. 4. ALL DIMENSIONS AND LEVELS TO BE VERIFIED BY BUILDER
- ON-SITE PRIOR TO COMMENCEMENT OF WORKS. THESE DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS NOR TO BE USED FOR SETOUT PURPOSES.
- 5. ALL SURVEY INFORMATION AND PROPOSED BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS.
- 6. THESE DRAWINGS DEPICT THE DESIGN OF SURFACE STORMWATER RUNOFF DRAINAGE SYSTEMS ONLY AND DO NOT DEPICT ROOF DRAINAGE OR SUBSOIL DRAINAGE SYSTEMS UNLESS NOTED OTHERWISE. THE DESIGN OF ROOF AND SUBSOIL DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF OTHERS.
- 7. ALL STORMWATER DRAINAGE PIPES ARE TO BE 100mm DIAMETER uPVC AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE.
- 8. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECT/BE AFFECTED BY THIS DESIGN PRIOR TO COMMENCEMENT OF WORKS
- 9. ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE OR EQUAL. 10. THIS PLAN IS THE PROPERTY OF STORMCIVIL
- AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM STORMCIVIL .



TYPICAL DETAIL - CHARGED SYSTEM CLEANOUT PIT

TYPICAL DETAIL -	COMRINED DE	TENTION/RAIN	IWATER RE-USE	IAN

	NIO		
$\bigcap$			
Α	20.07.2019	DA ISSUE	
ISS	DATE	AMENDMENT	

ARCHITECT/BUILDER ARCH. REF: 2991358 **CLARENDON HOMES** Mr & Ms LALIOTIS NORTHERN BEACHES (WARRINGAH)



Consulting Engineers Civil & Environmental. Stormwater Management. 3 Gresham Street. Cowan NSW 2081 ph/fax (02) 9456 7233

mobile : 0424023047

LEGEND. NOTES. DETAILS. CALCULATIONS

PROJECT TITLE

PROPOSED RESIDENTIAL DEVELOPMENT Lot 33, No 12 SPRINGVALE AVENUE, FRENCHS FOREST

StormCivil		STORMO	APPROVED ON BEHALF OF STORMCIVIL PTY LTD  Mark Taylor  MIE Aust CP Eng NER 1/73333	
JOB No	DWG No	No IN SE	T ISSUE	
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