PROPOSED NEW DWELLING AND GRANNY FLAT 11 HILLTOP ROAD, AVALON NSW 2107

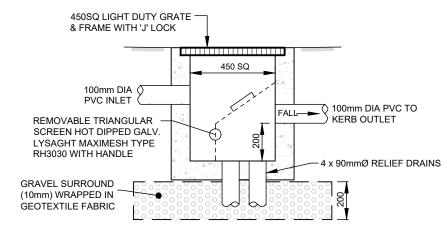
STORMWATER MANAGEMENT DESIGN

GENERAL DRAINAGE NOTES

- 1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LOCAL COUNCIL'S RELEVANT SPECIFICATIONS AND/OR STORMWATER CODE. ANY DISCREPANCY VARIATION OR ADDITIONAL WORK SHALL BE APPROVED BY THE PRINCIPAL CERTIFIER.
- 2. ALL SERVICES SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF
- 3. DIAL BEFORE YOU DIG SHALL BE CONTACTED PRIOR TO COMMENCEMENT.
- 4. ALL DRAINAGE PIPEWORK AND PLUMBING SHALL BE INSTALLED BY A CERTIFIED PLUMBER IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS3500 AND COUNCIL REQUIREMENTS.
- 5. ALL DRAINAGE PIPES ARE TO BE SEWER GRADE UNLESS NOTED OTHERWISE.
- 6. ALL COVERS, GRATES AND FRAMES ARE TO BE CLASS C HEAVY DUTY WHERE SUBJECT TO VEHICULAR TRAFFIC.
- 7. ALL COVERS, GRATES AND FRAMES ARE TO BE CLASS A MEDIUM DUTY WHERE SUBJECT TO PEDESTRIAN TRAFFIC OR IN LANDSCAPE AREAS.
- 8. COUNCIL PERMIT/APPROVAL SHALL BE OBTAINED PRIOR TO WORKS ON COUNCIL LAND AND CONNECTION TO COUNCIL SYSTEM.
- 9. ALL PIPE BENDS TO BE FITTED WITH AN INSPECTION OPENING

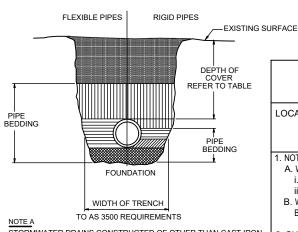
RAINWATER TANK NOTES

- 1. THE TANK SHALL NOT BE LOCATED OVER A WATER OR SEWER MAIN UNLESS IT IS INSTALLED IN ACCORDANCE WITH THE REGULATORY AUTHORITY REQUIREMENTS
- 2. ABOVE GROUND TANKS SHALL BE LOCATED AT LEAST 100 MM FROM ANY POTABLE WATER SUPPLY PIPE AND AT LEAST 300 MM FOR BELOW GROUND
- 3. ALL PLUMBING WORK SHALL BE CARRIED OUT BY A LICENSED PLUMBER IN ACCORDANCE WITH SYDNEY WATER REQUIREMENTS AND COUNCIL
- 4. ALL INLETS SHALL BE SCREENED OR FILTERED TO PREVENT THE ENTRY OF FOREIGN MATTER OR CREATURES.
- 5. REUSE PUMP TO BE INSTALLED BY A LICENSED PLUMBER AND ELECTRICIAN TO SYDNEY WATER REQUIREMENTS
- 6. A SIGN SHALL BE AFFIXED TO THE RAINWATER TANK AND ALL APERTURES CLEARLY STATING THAT THE WATER IN THE TANK IS RAINWATER
- 7. NOISE EMISSIONS FROM ANY PUMP SHALL MEET COUNCIL'S REQUIREMENTS.
- 8. WATER RETAINED FOR INDOOR HOUSEHOLD USE SHALL BE AUGMENTED BY MAINS WATER SUPPLY AND APPROVAL OBTAINED BY SYDNEY WATER.
- 9. WHERE RETAINED WATER IS AUGMENTED BY MAINS WATER SUPPLY A BACKFLOW PREVENTION DEVICE AND FLOW RESTRICTOR SHALL BE INSTALLED IN ACCORDANCE WITH AS 3500 AND SYDNEY WATER REQUIREMENTS
- 10.ALL INLETS SHALL BE FITTED WITH A FIRST FLUSH DEVICE PRIOR TO DISCHARGING TO THE RAINWATER TANK.
- 11. THE INDIRECT CONNECTION TO MAINS WATER SUPPLY SHALL HAVE A VISIBLE AIR GAP IN ACCORDANCE WITH AS 3500.



POLLUTION CONTROL PIT DETAIL

NOT TO SCALE



STORMWATER DRAINS CONSTRUCTED OF OTHER THAN CAST IRON, DUCTILE IRON OR GALVANISED STEEL HAVING COVER LESS THAN THAT SPECIFIED IN TABLE SHALL BE COVERED WITH AT LEAST 50mm OVERLAY AND SHALL BE PAVED WITH AT LEAST

(a) 100mm THICKNESS OF REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICULAR LOADING

LEGEND - TRENCH BACKFILL						
SYMBOL	FLEXIBLE PIPES	RIGID PIPES				
	BACKFILL					
	PIPE OVERLAY					
	PIPE SIDE SUPPORT	SIDE ZONE				
	-	HAUNCH ZONE				
	PIPE UNDERLAY	BED ZONE				

MINIMUM PIPE COVER

(FROM FINISHED SURFACE TO TOP OF PIPE)

LOCATION	MINIMUM COVER (mm)	
	CAST / DUCTILE	AUTHORISED
	IRON OR GALV	PRODUCTS (*)
	STEEL	
1. NOT SUBJECT TO VEHICULAR LOADING:		
A. WITHOUT PAVEMENT:		
i. FOR SINGLE DWELLINGS -	0	100
ii. OTHER THAN SINGLE DWELLINGS -	0	300
B. WITH PAVEMENT OF		
BRICK/UNREINFORCED CONCRETE -	0 (**)	50 (**)
2. SUBJECT TO VEHICULAR LOADING:		
A. OTHER THAN ROADS:		
i. WITHOUT PAVEMENT -	300	450
ii. WITH PAVEMENT OF:		
- REINF. CONC. FOR HEAVY VEHICLES -	0 (** #)	100 (** #)
- BRICK/UNREINF. CONC LIGHT VEHICLES -	0 (** #)	75 (** #)
B. ROADS		
i. SEALED	300	500 (#)
ii. UNSEALED	300	500 (#)
3. SUBJECT TO CONSTRUCTION VEHICLES OR		//\/
IN EMBANKMENT CONDITIONS	300	500 (#)

) INCLUDES OVERLAY ABOVE THE TOP OF THE PIPE OF NOT LESS THAN 50mm THICK **) BELOW THE UNDERSIDE OF THE PAVEMENT #) SUBJECT TO COMPLIANCE WITH AS1762, AS2033, AS/NZS 2566.1, AS3725 OR AS 4060

NORTHERN BEACHES COUNCIL REQUIREMENTS

THE STORMWATER DRAINAGE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL WATER MANAGEMENT FOR DEVELOPMENT POLICY REGION 1 - NORTHERN CATCHMENT AND AUSTRALIAN STANDARDS AS3500.3

DESIGN PARAMETERS

SITE AREA (m2)	733.5
PRE-DEVELOPMENT TOTAL IMPERVIOUS AREA (m2)	333.86
POST-DEVELOPMENT IMPERVIOUS AREA (m2)	335.85
INCREASE IN IMPERVIOUS AREA (m2)	1.99

THEREFORE, ON-SITE DETENTION IS **NOT** REQUIRED AS THE INCREASE IS LESS THAN 50m2

BASIX CERTIFICATE REQUIREMENTS

MINIMUM STORAGE CAPACITY REQUIRED (L). 2 500 MINIMUM ROOF AREA TO BE COLLECTED (m2). 180

RAINWATER TANK TO BE CONNECTED FOR IRRIGATION PURPOSES. TOILET FLUSHING AND LAUNDRY USE

LEGEND

DENOTES ON-SITE DETENTION / RAINWATER REUSE TANK DENOTES 100mm DIA. STORMWATER PIPE AT 1% MIN. GRADE U.N.O

RW - 100 (CH)

 \boxtimes

DENOTES 100mm DIA CHARGED STORMWATER PIPE TO ON-SITE / DETENTIOMN RAINWATER TANK

DENOTES DOWNPIPE

STORMWATER PIT - SOLID COVER STORMWATER PIT - GRATED INLET

DENOTES GRATED DRAIN

SHEET INDEX COVER SHEET AND NOTES SHEET SW1 STORMWATER MANAGEMENT PLAN SHEET SW2 SECTIONS AND DETAILS SHEET SW3

NGINEERS EMAIL: waterdes@big ABN: 77 928 166 729

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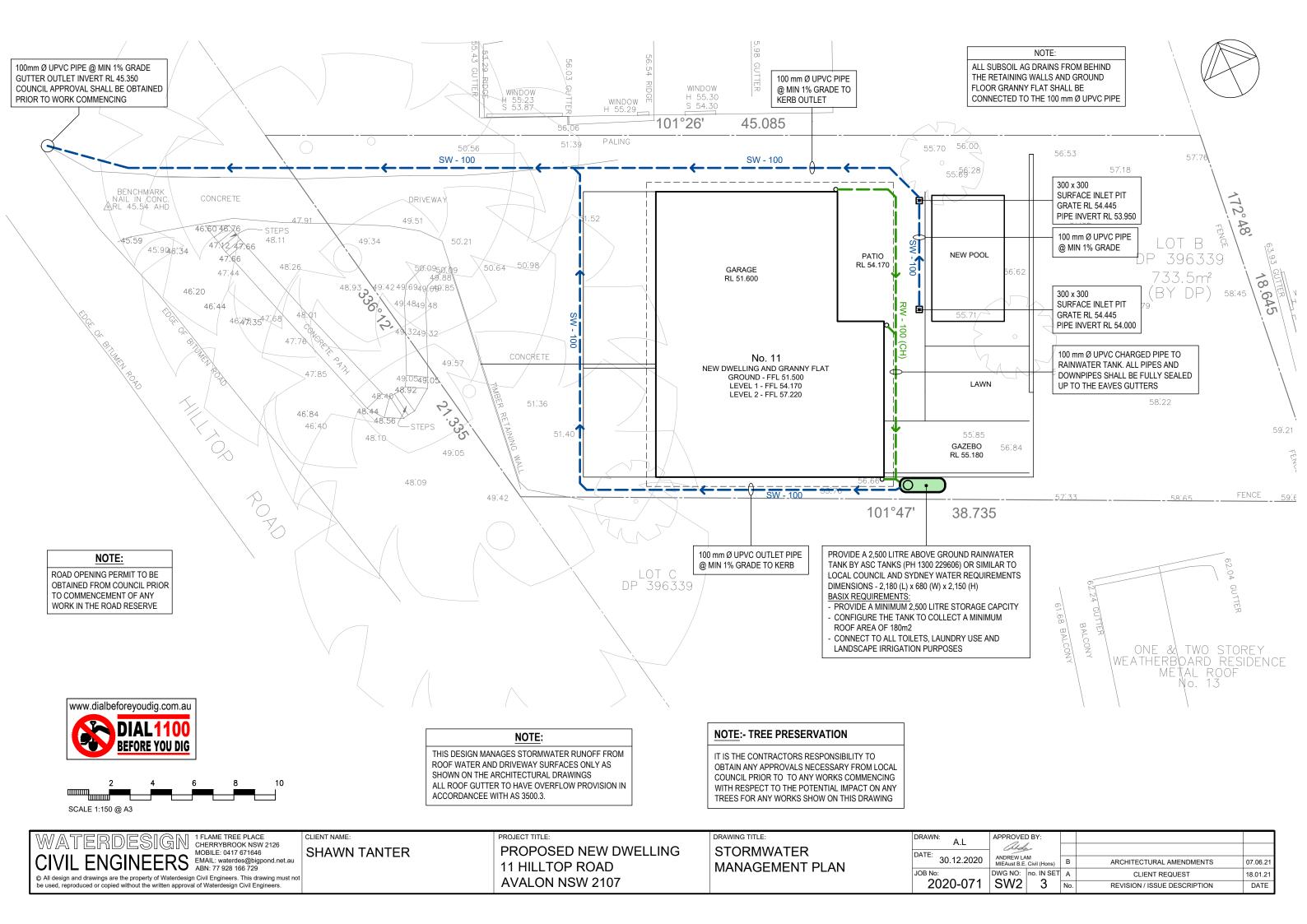
1 FLAME TREE PLACE MOBILE: 0417 671646 EMAIL: waterdes@bigpond.net.au © All design and drawings are the property of Waterdesign Civil Engineers. This drawing must no

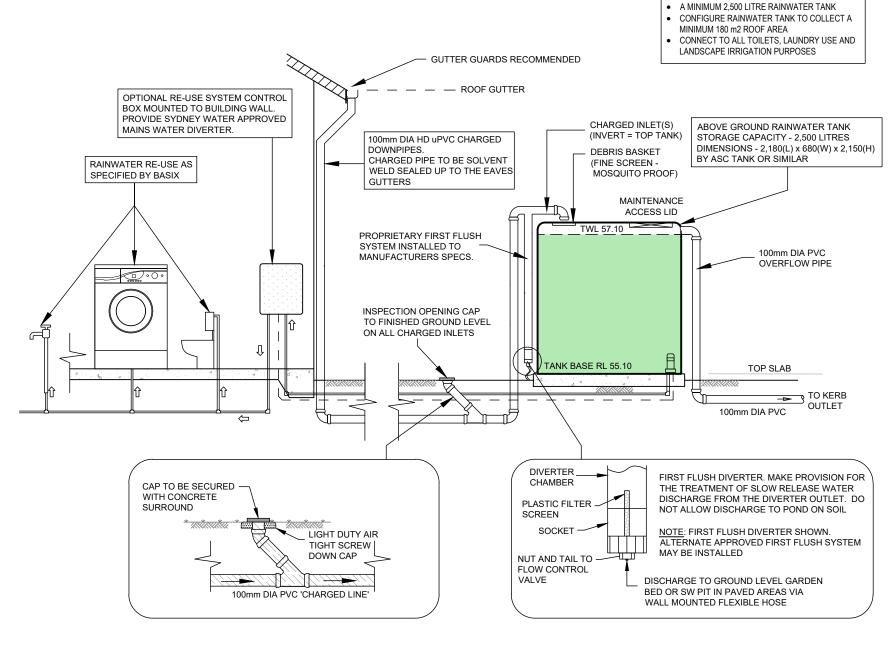
SHAWN TANTER

PROPOSED NEW DWELLING 11 HILLTOP ROAD **AVALON NSW 2107**

COVER SHEET AND NOTES

DRAWN: ΔΙ	APPROVE	D BY:			
ATE:	Chholi	15			
OATE: 30.12.2020	ANDREW LAM MIEAust B.E. Civil (Hons)		В	ARCHITECTURAL AMENDMENTS	07.06.2
OB No:	DWG NO:	no. IN SET	Α	CLIENT REQUEST	18.01.2
2020-071	SW1	3	No.	REVISION / ISSUE DESCRIPTION	DATE





BASIX CERTIFICATE REQUIREMENTS:

TYPICAL WARNING SIGN SCALE N.T.S

WARNINO

NOT FOR

DRINKING

* EVERY EXTERNAL SUPPLY OUTLET FROM RAINWATER RE-USE TANK TO BE LABELED WITH METALLIC WARNING SIGN

ABOVE GROUND RAINWATER TANK SCHEMATIC DETAIL

1 FLAME TREE PLACE CHERRYBROOK NSW 2126 APPROVED BY: A.L Chholan PROPOSED NEW DWELLING CIVIL ENGINEERS

MOBILE: 0417 671646

EMAIL: waterdes@bigpond.net.au
ABN: 77 928 166 729 **SHAWN TANTER SECTIONS AND DETAILS** DATE: 30.12.2020 ANDREW LAM MIEAust B.E. Civil (Hons) ARCHITECTURAL AMENDMENTS 07.06.21 11 HILLTOP ROAD DWG NO: no. IN SET A CLIENT REQUEST 18.01.21 © All design and drawings are the property of Waterdesign Civil Engineers. This drawing must not be used, reproduced or copied without the written approval of Waterdesign Civil Engineers. **AVALON NSW 2107** SW3 2020-071 DATE REVISION / ISSUE DESCRIPTION