

# STORMWATER LAYOUT NOTES

-PITS UP TO 600 DEEP TO BE 450 x 450 U.N.O., PITS UP TO 900 DEEP TO BE 600 x 600 U.N.O., PITS UP TO 1200 DEEP TO BE 900 x 600 U.N.O., PITS EXCEEDING 1200 DEEP TO BE 900 SQ. U.N.O. PITS TO BE PRECAST CONCRETE OR RENDERED BRICK WITH CONCRETE HEAVY DUTY GRATES. U.N.O. LIGHT DUTY PITS AND GRATES MAY BE USED ONLY IN LIGHT/FOOT TRAFFICABLE AREAS. U.N.O. ALL PITS TO BE BENCHED TO DISCHARGE PIPES U.N.O. GAL. STEP IRONS TO ALL PITS EXCEEDING 900 DEPTH. -COVER AND SUMP GRATES SHALL COMPLY WITH AS2733 & AS4198.

-DOWNPIPES TO BE 90 DIA IF CHARGED AND 100 x 50 BOX IF GRAVITY. U.N.O. DP'S SHALL BE INSTALLED IN ACCORDANCE WITH AS3500.3.2:4.11 & AS4198. ROOF AREA PER DOWNPIPE WITH A NOMINATED GUTTER SIZE TO BE DETERMINED USING
MANUFACTURERS SPECIFICATIONS WITH OVERFLOW PROVISIONS BY INSTALLERS.
-PIPES TO HAVE 1% MIN.GRADE U.N.O. BY PIT INVERTS. PIPES TO BE V.C. CLASS 'X'

-PIPES TO HAVE 1% MIN.GRADE U.N.O. BY PIT INVERTS. PIPES TO BE V.C. CLASS X OR U.P.V.C. CLASS STORMWATER PIPE TO AS1254,1260,1273,1477,2179.2 AND WHERE EXPOSED TO DIRECT SUNLIGHT TO HAVE ADEQUATE PROTECTION TO U.V. RADIATION IN ACCORDANCE WITH AS2032. SEWER GRADE/GAL. PIPES AND KERB ADAPTORS TO BE USED WHERE COUNCIL POLICY OR CONSENT REQUIRE SUCH.

AGUITER OUTLETS SHALL BE FITTED VERTICALLY TO THE SOLE OF THE EAVE GUTTERS.
RAINHEADS TO HAVE AN OVERFLOW DUCT OR WEIR 50mm BELOW THEIR CREST. -PROVIDE OVERFLOW SPITTERS TO ALL COVERED BALCONIES/ TERRACES. NOT TO BE

DIRECTED ON TO ROOF SURFACES

-SUBSOIL DRAINS TO BE IN ACCORDANCE WITH AS2439.1 CLASS 100 TO BE USED ONLY IN SINGLE DWELLINGS.

-RISING MAINS (PRESSURE PIPE) TO BE IN ACCORDANCE WITH AS3500.1:2.
-ALL PIPE JOINTS, VALVES TO BE IN ACCORDANCE WITH AS3500.3.2:2.7 & AS3500.3.2
-EXPANSION JOINTS SHALL COMPLY WITH AS3500.3.2:TABLE 4.1 PVC JOINTS AND ACCESSORIES TO COMPLY WITH AS2179.2 & AS4198.

-ALL TRENCHES TO BE IN ACCORDANCE WITH AS3500.3.2:7.2.8-14. EMBEDMENT MATERIAL AND TRENCH FILL TO ALL PIPES & SUBSOIL, DRAINS TO BE IN ACCORDANCE WITH AS3500.3.2:7, ALL WORKS TO BE IN ACCORDANCE WITH AS1254, 1741, 2032, 2733, 2865, 3996, 1260, 1477, 2179.1 & 2,2566, 6367, 8301, ARR97 & BCA. -IT IS THE BUILDER'S RESPONSIBILITY TO CONFIRM THAT LEVELS AND SURVEYS ARE IN ACCORDANCE WITH LEVELS ON SITE & ARE APPROVED BY COUNCIL & ARCHITECT BEFORE COMMENCING WORK. -NO SEWER VENTS, GULLY PITS OR SIMILAR TO BE LOCATED BELOW THE MAXIMUM WATER SURFACE LEVEL IN DETENTION BASINS. ALL BASIN WALLS TO BE WATERTIGHT & STRUCTURALLY DESIGNED BY A STRUCTURAL ENGINEER. -ALL FENCES WHICH MAY DIVERT FLOW FROM PROPOSED DIRECTION TO BE RAISED 100mm. -BUILDER TO ENSURE ALL DRAINAGE AREAS INCLUDING EXPOSED BALCONIES TO HAVE OVERFLOW MECHANISM IN

PLACE IN THE EVENT OF BLOCKAGE WITH ADEQUATE OVERFLOW SECTION THROUGH PLANTERS, PARAPETS ETC.

-ALL EXTERIOR FINISHED GROUND LEVELS TO BE SLOPING AWAY FROM PERIMETER WALLS IN ALL CASES.

-ALL HEADROOM CLEARANCES TO BE COORDINATED BETWEEN BUILDER & ARCHITECT. NOTIFY ENGINEER FOR APPROVAL IF ANY CHANGES OCCUR.

-ALL GULLY POSITIONS ARE DIAGRAMMATIC ONLY- BUILDER SHOULD CONSULT ARCHITECTURALS FOR DIMENSIONS TO LOCATE STORMWATER ELEMENTS U.N.O.

LOCATE STORMWATER ELEMENTS O.N.O. -FIRE RATING TO ARCHITECT'S SPECIFICATION. -ALL FINISHED FLOOR LEVELS ARE NOMINATED BY ARCHITECT.

ALL SITE SAFETY MEASURES AND WORK METHOD STATEMENTS PREPARED BY BUILDER/SUB—CONTRACTORS ARE TO-BE IMPLEMENTED DURING CONSTRUCTION. NO WORK IS TO COMMENCE UNTIL ALL WORKERS CARRY OUT SITE INDUCTION, PREPARED AND CARRIED OUT BY BUILDER. ANY HAZARD IDENTIFICATION TO BE REPORTED IMMEDIATELY TO SITE SUPERVISOR TO CARRY OUT NECESSARY PROCEDURES TO ELIMINATE HAZARD, PRIOR TO PROCEEDING WITH WORK. STRUCTURAL AND GEOTECHNICAL ADVICE SHOULD BE SOUGHT IN ALL CASES.

-CONFINED SPACES SIGNAGE TO BE INSTALLED IN ACCESSIBLE UNDERGROUND TANKS TO WORK COVER SPECIFICATIONS. ALL PITS EXCEEDING 600mm DEPTH TO HAVE 'J' BOLTS INSTALLED TO GRATES.

-MAINTENANCE DEVICES REQ'D BY AUTHORITIES ARE NOT TO BE ASSUMED SHOWN ON DRAWINGS. -EARTH MOUNDING SHOWN AS TEMPORARY MEASURE UNTIL LANDSCAPING COMPLETED TO DIRECT FLOWS AS SHOWN.

PROPOSED RESIDENCE AT 33 CAREEL HEAD ROAD AVALON BEACH FOR MRS F CARLILE

### R.L. 0.00 NEW REDUCED LEVEL (NEW FINISHED GROUND LEVEL) + 00.00 EXISTING LEVEL S.L. 0.00 SURFACE LEVEL I.L. 0.00 INVERT LEVEL T.O.W. TOP OF WALL LEVEL G.F.L. 0.00 GARAGE FLOOR LEVEL F.F.L.O.00 FINISHED FLOOR LEVEL A,B,C etc. SEE PIPE SCHEDULE L1 PIPE LABEL PIT P1 SURFACE INLET PIT PIT OP1 OVERLAND FLOW PIT PIT P1 PIT OP1 90mm. AG. LINE DOWNPIPE-SIZE ODP REFER TO NOTES FOR DP SIZE ALL OTHER SURFACE WATERS **⊕**GP GULLY PIT TO BE STRICTLY CONNECTED GARDEN GULLY PIT ₿GP TO A SEPARATE SYSTEM BY OWNER IN ACCORDANCE WITH ■O/F OVERFLOW-200×100 RWH/S RAIN WATER HEAD/SUMP AS 3500:.3:2003 AND BCA DP WITH SPREADER BALCONY GULLY PIT CLEANING EYE GROUND FALL

100 HIGH EARTH

RAINWATER TANKS WITH PUMPS TO SUPPLY GARDEN TAPS AND INTERNAL RE-USE AS PER )))) BASIX ASSESSMENT

2%

1%

2%

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	ISSUE	PRINTS	ISSUED TO	DATE
	1	EMAIL	BUILDER/CLIENT	1-11-19
_ 11				

SCALE(A3) 1:200,100 u.n.o. SCALE BAR - 1m INTERVALS DATE OCT . 2019 DRAWN M./. DESIGNED M./.

APPROVED



www.stormwater.net.au email: mail@stormwater.net.au

THIS DRAWING STORMWATER

JOB NUMBER

W8948-180504

REVISION

P.O. BOX 400 CHERRYBROOK NSW 2126 TELEPHONE: (02) 9980 5515 FAX: (02) 9980 6114

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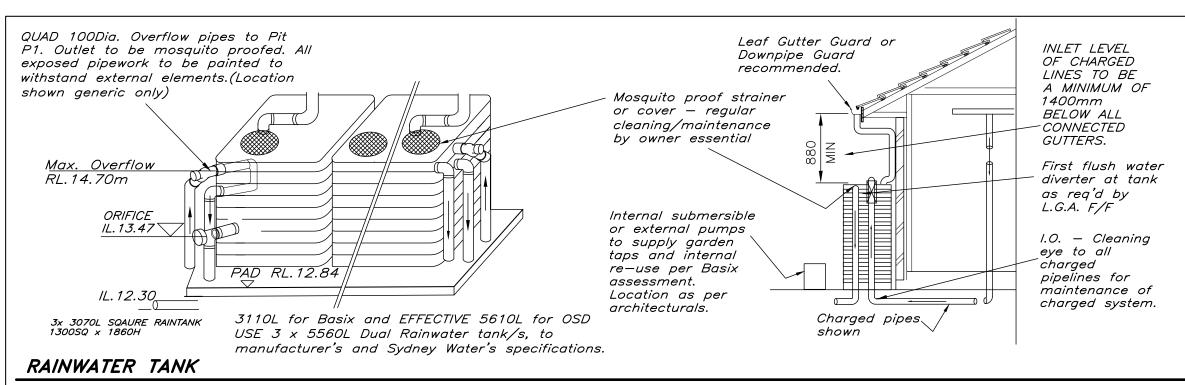
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PART 3.1.2.3.

LAYOUT SH.1 BUILDER WISDOM HOMES

1 of 2



THIS IS AN

## **ON-SITE STORMWATER DETENTION SYSTEM**

REQUIRED BY YOUR LOCAL COUNCIL

IT IS AN OFFENSE TO REDUCE THE VOLUME OR TO INTERFERE WITH THE ORIFICE PLATE THAT CONTROLS THE **OUTFLOW** 

THE BASE OF THE OUTLET CONTROL PIT AND DEBRIS SCREEN MUST BE CLEANED OF DEBRIS AND SEDIMENT ON A REGULAR BASIS BY THE OWNER

THIS PLATE MUST NOT BE REMOVED

Signange to be provided adjacent tanks Size: 110 mm x 80mm

TANK DETAILS SHOWN ARE A SUGGESTED CONFIGURATION ONLY. ANY MODIFICATIONS TO TANK VOLUME OR INLET AND OUTLET LEVELS MUST BE APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION. TANK SHAPE, & DEVICES SHOWN ARE DIAGRAMMATIC ONLY. MINIMUM OF 450 CLEARANCE (UNLESS L.G.A. REQUIRES LARGER SETBACK) TO SIDE BOUNDARIES MUST BE MAINTAINED. CLIENT IS RESPONSIBLE TO ENSURE COMPLIANCE WITH THIS IN THE INSTALLED STATE. Charged stormwater lines from Roof Areas ONLY to rainwater tank.

All joints to be solvent welded. All exposed pipework to be painted to withstand external elements.

First flush water diverter at tank to comply with Sydney Water and council DCP's. An approved switch system similar to 'Rainbank' to be used via mains. Pumps to manuf. specs.

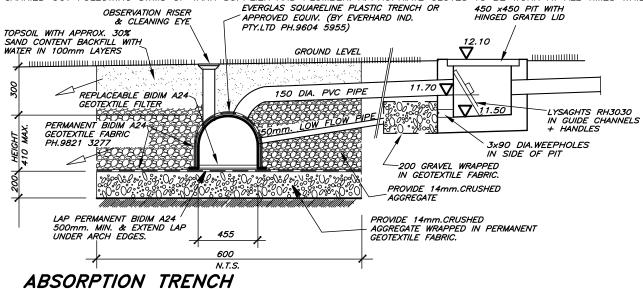
Rain Tank to be installed and maintainted to manufacturers specifications and to comply with all Sydney Water Guidelines.

Client to be responsible for maintenance system of charged 'pipelines. Debris accumulation significantly affects systems performance. Maintenance program essential. Structural details for tank base by manufacturer or others.

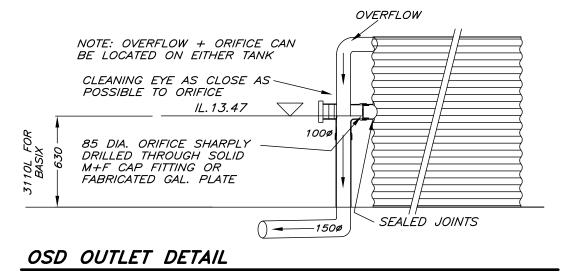
WHSA HAZARD IDENTIFICATION:

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INSTALLATION OF RAINTANKS: PLUMBER/SITE SUPERVISOR TO ASSESS ACCESS SUITABILITY PRIOR OR POST SLAB CONSTRUCTION. INSTALLATION OF TANKS TO BE CARRIED OUT FOLLOWING SWMS OF TANK SUPPLIER AND PLUMBER. APPROPRIATE GLOVES TO BE WORN AT ALL TIMES WHILE HANDLING TANKS.



WHSA HAZARD IDENTIFICATION: DEEP TRENCHING—ALL PERSONS TO FOLLOW THEIR SWMS IN RELATION TO BARRICADING DEEP TRENCHES AND WEARING APPROPRIATE CLOTHING. ANY PERSON WORKING INSIDE A TRENCH MUST BE SUPERVISED BY ANOTHER PERSON IN ACCORDANCE WORK COVER AND WORKING IN CONFINED SPACES. DIAL BEFORE YOU DIG 1100 MUST BE CHECKED BEFORE ANY TRENCHING COMMENCES ON SITE. ANY WORKS NEAR IDENTIFIED SERVICES TO BE CARRIED OUT IN ACCORDANCE WITH THE TRADES SWMS. GEOTECHNICAL INVESTIGATIONS FOR TRENCHING TO BE CARRIED OUT BY APPROPRIATELY QUALIFIED PERSONAL IN RELATION TO SUITABLE BATTERS



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TRENCHES TO BE LOCATED PARALLEL TO NATURAL CONTOURS OF SITE. SURFACE OF TRENCHES TO ACT OR LEVEL SPREADER OR LEVEL SPREADER TO BE CONSTRUCTED DOWNSTREAM OF TRENCHES.

STRICTLY NO PAVING OR HARD SURFACES TO BE CONSTRUCTED OVER TRENCHES.

Geotech Engineers Recommendation for construction of the trench to incorporate roughening of the base and sides of the trench to reduce smearing that may be caused during excavation. Roughening could be achieved by tyning the base of the trench and vertical grooving the sides.

Trafficking of the base of the trench should be avoided during construction of the absorption trench. Trench

design and construction should incorporate suitable geofabric lining to the base, sides and top of the trench.

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AT 33 CAREEL HEAD ROAD AVALON BEACH

BUILDER/CLIENT TO ENSURE THAT ALL SAFETY MEASURES ARE TAKEN BUILDERY CLIENT TO ENSURE THAT ALL SAFETY MEASURES ARE TAKE DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, SAFETY FENCING, SIGNAGE, OBTAINING STRUCTURAL AND GEOTECHNICAL ADVICE WHERE EXCAVATIONS ARE NEAR STRUCTURES OR SERVICES, SAFETY MEASURES RECOMMENDED BY PRODUCT SUPPLIERS ETC.

> STORMWATER DETAILS SH.1

REVISIONS

W8948-180504

ISSUE	PRINTS	ISSUED TO	DATE
1	EMAIL	BUILDER/CLIENT	1-11-19
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PROPOSED RESIDENCE FOR MRS F CARLILE

SHEET No. WISDOM HOMES 2 of 2