

RAINWATER RE-USE TANKS:

PATRICK DUPONT & STEVE SHACKEL, "RAINWATER"

INFRASTRUCTURE, PLANING AND NATURAL RESOURCES.

AVAILABLE AT www.sydneywater.com.au

WITH LOCAL HEALTH AUTHORITIES.

REFER TYPICAL FLUSH OUT PIT FOR DETAILS.

SUITABILITY TO BE READ AND ADHERED TO.

FROM ENTERING THE RAINWATER STORAGE AREA

FOR NON DRINKING USE ONLY.

3. REFERENCES:

1. CONSIDERING THE ROOF CATCHMENT AREA, LOCATION OF PROPERTY, INTENDED USE OF

RAINWATER AND GARDEN SIZE WE RECOMMEND PROVIDING A RAINWATER TANK FOR

USE AS PER BASIX REQUIREMENTS, SYDNEY WATER AND NSW HEALTH REQUIRMENTS

2. THE TANKS PROVIDED WILL REDUCE PRESSURE ON COUNCIL'S STORMWATER INFRASTRUCTURE.

COOMBES P.J. \$ KUCZERA G. (2001), "RAINWATER TANK DESIGN FOR WATER SUPPLY \$ STORMWATER MANAGEMENT." STORMWATER INDUSTRY ASSOCIATION REGIONAL CONFERENCE.

5. PROVIDE A DUAL SUPPLY SYSTEM AND BACKFLOW PREVENTION SYSTEM IN ACCORDANCE

6. IF NOT SPECIFIED ON PLANS, THE FIRST FLUSH SYSTEM IS TO HAVE A MINIMUM SIZE OF 20L PER 100m2 OF ROOF CATCHMENT AREA PRIOR TO ENTERING THE RAINWATER TANK. INDIVIDUAL SITE ANALYSIS IS REQUIRED IN HEAVILY POLLUTED AREAS TO DETERMINE IF

LARGER VOLUMES OF FIRST FLUSH RAINWATER ARE TO BE DIVERTED. IF IN DOUBT, CHECK

INSTALLED ON EACH DOWNPIPE. SCREEN MESH TO BE 4-6mm AND DESIGNED TO BE SELF-CLEANING.

7. SCREENED DOWNPIPE RAINWATER HEAD OR OTHER SUITABLE LEAF AND DEBRIS DEVICE TO BE

8. FIRST FLUSH DEVICES, OR APPROVED ALTERATIVE, TO BE INSTALLED WITH AN AUTOMATED DIVERSION AND DRAINAGE SYSTEM, THAT IS, NO MANUAL DIVERSION AND DRAINAGE VALVES.

9. BEFORE PURCHASING MATERIALS OR PAINT TO BE USED ON ROOF CATCHMENT AREAS, THE MANUFACTURER'S RECOMMENDATIONS ON LABELS AND BROCHURES FOR RAINWATER TANK

11. BUILDER/PLUMBER TO ENSURE THE INSTALLATION OF THE RAINWATER TANK SYSTEM IS IN

AND INSTALLATION HANDBOOK - HB 230-2008. IF IN DOUBT CONTACT ENGINEER.

12. RAINWATER TANK TO BE WATER PROOFED IN ACCORDANCE WITH HB 230-200B

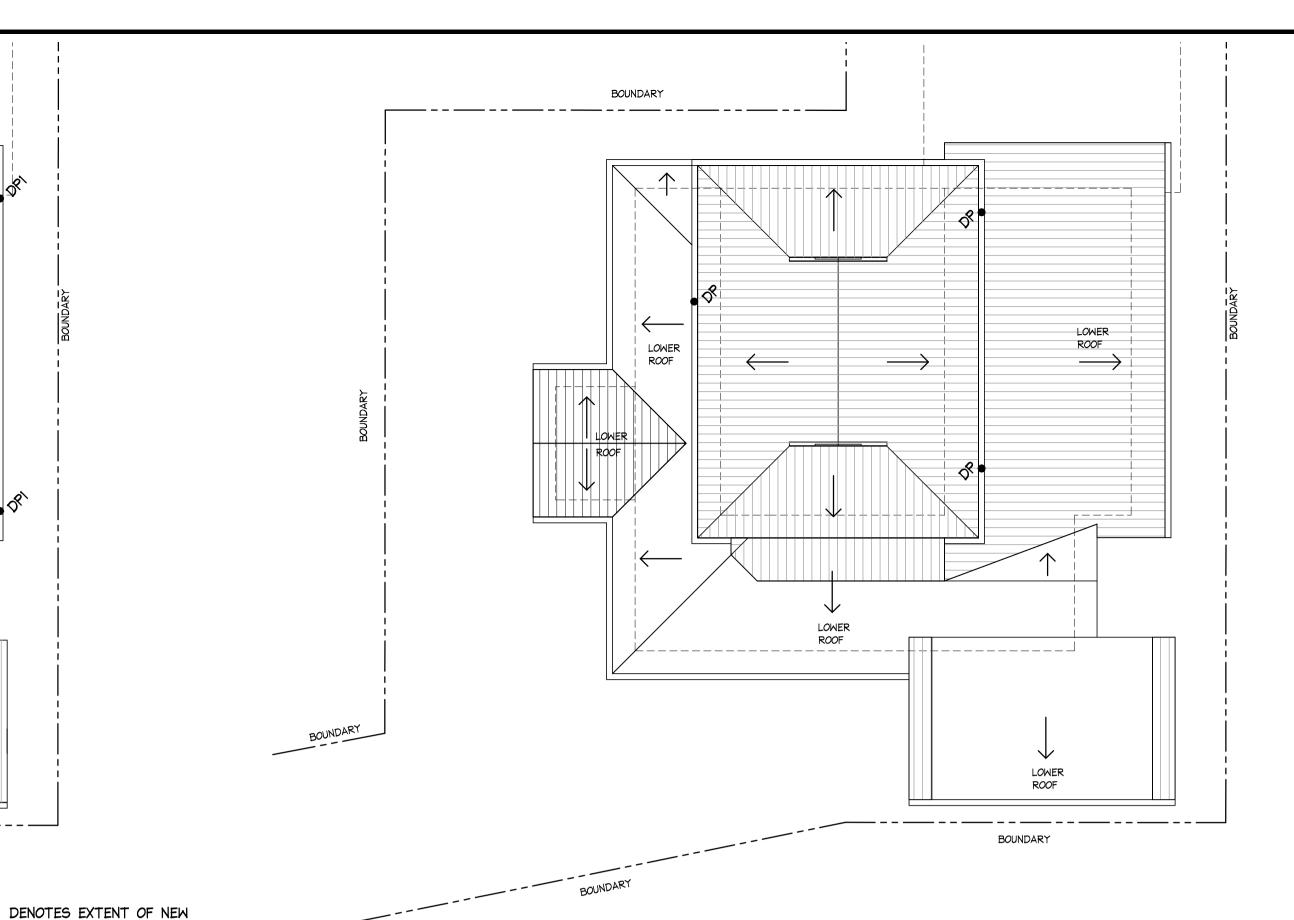
10. PRE-STORAGE PITS FOR UNDERGROUND RAINWATER STORAGE TANKS AND FLUSH OUT PITS MAY ASSIST IN LIMITING SILT, AND PREVENT VERMIN, INSECTS (INCLUDING MOSQUITOES) AND DEBRIS

ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE RAINWATER TANK DESIGN

AUSTRALIAN GOVERNMENT (2004), "GUIDANCE ON USE OF RAINWATER TANKS" 4. ALL CONNECTIONS TO PLUMBING AND RAINWATER TANKS TO BE IN ACCORDANCE

WITH 'BASIX-DESIGN GUIDE FOR SINGLE DWELLINGS' BY NSW DEPARTMENT OF

WITH SYDNEY WATERS' GUIDE "INSTALLING A RAINWATER TANK"



UPPER ROOF DRAINAGE PLAN

SCALE = 1 : 100

NOTE: DP2 DOWN PIPES TO DISCHARGE INTO RAINWATER RE-USE TANK IN ACCORDANCE WITH AS 3500.3 DP2 EXISTING FLOOR STRUCTURE 2 600 MIN CLEARANCE FOR ACCESS TRASH SCREEN FIRST FLUSH DEVICE ——INSTALLATION TO TANK MANUFACTURERS SPECIFICATIONS 100 Φ OVERFLOW EXISTING COUNCIL'S RWT STORMWATER PIT 2200 L

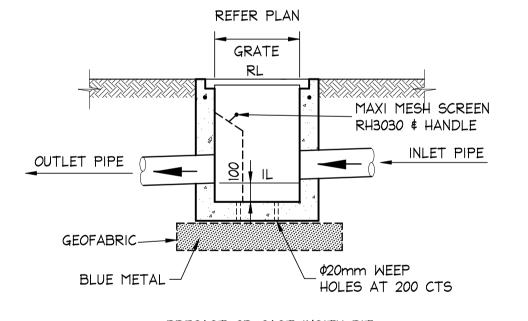
SHEET METAL ROOF

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AND RECOMMENDATIONS TYPICAL RAINWATER RE-USE TANK DETAIL NOT TO SCALE

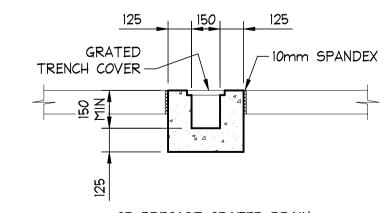
TANK BASE TO

MANUFACTURERS SPECIFICATION



PRECAST OR CAST INSITU PIT REFER STORMWATER NOTES
ALTERNATIVE POLYPROPYLENE PIT BY MANUFACTURER

TYPICAL PIT DETAIL SCALE = 1 : 20



OR PRECAST GRATED DRAIN ALTERNATIVE POLYPROPYLENE DRAIN BY MANUFACTURER

TYPICAL GRATED DRAIN SCALE = 1 : 20

SUBMISSION ONLY NOT FOR CONSTRUCTION

MARCH 2020

IF IN DOUBT ASK

Design:

CMcL

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FIRST FLOOR AND LOWER ROOF DRAINAGE PLAN

SCALE = 1 : 100

- ROOF GUTTER WITH LEAF GUARD

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| RAPID PLANS | Project: ALTERATIONS AND ADDITIONS 2 HERBERT STREET, MANLY |
|-------------------|---|
| SIMON SCHULTHEISS | Drawing Title: STORMWATER MANAGEMENT DRAINAGE PLANS AND DETAILS |

Drawn:

MC