

STORMWATER ROOF PLAN

Scale 1:200

KEY

S.P. --- DOWN PIPE (SPREADER)

D.P. --- DOWN PIPE 90mm

--- FIRST FLUSH DIVERTER

--- 100mm DIA STORM WATER PIPE TO STORAGE TANK

--- 90mm DIA STORM WATER DISCARD PIPE TO SERVICE PIT STORMWATER PIPE

--- 60mm DIA BLEED PIPE

--- EXISTING STORMWATER PIPE

--- GALVANISED STEEL RHS PIPE TO KERB

--- DRAINAGE GRATE

--- GRATED PIT 150mm

--- RAIN WATERTANK

IF IN DOUBT ASK

STORMWATER MANAGEMENT PLAN

Scale 1:200

HYDRAULIC NOTES

1. THE CONTRACTOR SHALL GIVE NOTICE TO COUNCIL'S ENGINEER IN ACCORDANCE WITH COUNCIL'S SPECIFICATIONS WHEN INSPECTIONS ARE REQUIRED.
2. WHERE DEPTH OF STORMWATER DRAINAGE PITS EXCEEDS 1.2m, HOT DIPPED GALVANISED STEEL STEP IRONS SHALL BE PROVIDED.
3. ALL PITS SHALL BE PRECAST CONCRETE WITH GRATE OR APPROVED EQUIVALENT UNLESS NOTED OTHERWISE.
4. STORMWATER CONNECTION TO COUNCIL'S DRAINAGE SYSTEM SHALL BE DONE UNDER THE SUPERVISION OF COUNCIL'S ENGINEER.
5. ALL STORMWATER PIPES BELOW AND INCLUDING 225Ø SHALL BE UPVC OR APPROVED EQUIV. UNLESS NOTED OTHERWISE.
6. ALL PIPES ABOVE 225Ø SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
7. MINIMUM PIPE COVER TO BE 700mm UNLESS NOTED OTHERWISE.
8. ALL PIPES TO BE LAID AND COVERED WITH SAND TO A MINIMUM DEPTH EQUAL TO THE PIPE DIAMETER, BUT NOT LESS THAN 300mm.
9. IN SANDY SOILS THE EXCAVATED SOIL MAY BE REUSED.
10. ALL 100Ø SUBSOIL DRAINAGE TO BE PLACED A MINIMUM OF 650mm BELOW FINISHED SURFACE LEVELS AND COVERED WITH A MINIMUM OF 500mm GRAVEL.
11. MINIMUM OF 500mm GRAVEL.
12. PIPE BEDDING SUPPORT SHALL BE H1 UNLESS NOTED OTHERWISE.
13. STORMWATER GRATES AND MANHOLE CLASSES SHALL BE IN ACCORDANCE WITH AS3996.
14. WITH AS3996.
15. WHERE PIPE GRADES ARE NOT SHOWN ON DRAWINGS, MINIMUM PIPE GRADES SHALL BE 1% UNO.
16. PIPE GRADES INDICATED ON DRAWINGS ARE MINIMUM GRADES. IF MINIMUM GRADES CANNOT BE ACHIEVED CONTACT THE DESIGN ENGINEER PRIOR TO PLACEMENT.

RAINWATER TANK NOTES

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH AS. 3500.3.2. AND RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK 2008.
2. THIS PLAN TO BE READ IN CONJUNCTION WITH THE BASIX CERTIFICATE NUMBER LISTED IN BASIX/NATHERS NOTES.
3. A TOTAL RAINWATER TANK STORAGE CAPACITY PROVIDED AS DESCRIBED IN TABLE 1.
 - ALL TOILETS IN THE DEVELOPEMNT.
 - THE COLD WATER TAP THAT SUPPLIES EACH CLOTHES WASHER IN THE DEVELOPMENT.
 - AT LEAST ONE OUTDOOR TAP IN THE DEVELOPMENT (NOTED: NSW HEALTH DOES NOT RECOMMEND THAT RAINWATER BE USED FOR HUMAN CONSUMPTION.)
4. ALL PIPE AND DOWN PIPES TO BE PRESUSSURE GRADE PIPES TO 500mm ABOVE MAXIMUM WATER LEVEL OF RAIN WATERTANKS.

GUTTER NOTES

1. ALL GUTTERS TO HAVE A MINIMUM CROSS SECTION AS OUTLINED IN TABLE 1.
2. ALL GUTTER GRADIENTS TO BE NOT LESS THAN 1:500
3. TOP OF FASCIA TO BE A MINIMUM OF 15mm ABOVE GUTTER SLOTTED OVERFLOW
4. DOWNPIPE SIZES TO BE IN ACCORDANCE WITH TABLE 1.

CATCHMENT AREAS FOR INDIVIDUAL DOWNPIPES AND GUTTERS

	PLAN VIEW AREA m2	AREA INC SLOPE	GUTTER mm2 (CROSS SECTION)	DOWNPIPE SIZE	AVERAGE RECURRENCE INTERVAL 1 IN 20 YEAR
A	28.6	30.4	7700	90mm	200mm/hr
B	28.6	30.4	7700	90mm	200mm/hr
C	21.9	23.3	7700	90mm	200mm/hr
D	22.5	27.5	7700	90mm	200mm/hr
E	23.1	24.6	7700	90mm	200mm/hr
F	23.1	27.5	7700	90mm	200mm/hr
G	23.3	24.8	7700	90mm	200mm/hr
H	26	27.7	7700	90mm	200mm/hr
I	22.8	24.3	7700	90mm	200mm/hr
J	31.4	33.4	7700	90mm	200mm/hr

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PROJECT

**PROPOSED NEW DWELLING
19 CORKERY CRESCENT
ALLAMBIE HEIGHTS**

FOR
T. MANION & S. DAVIS

DATE **MAR. 2023** SCALE **1:200**

JOB No.

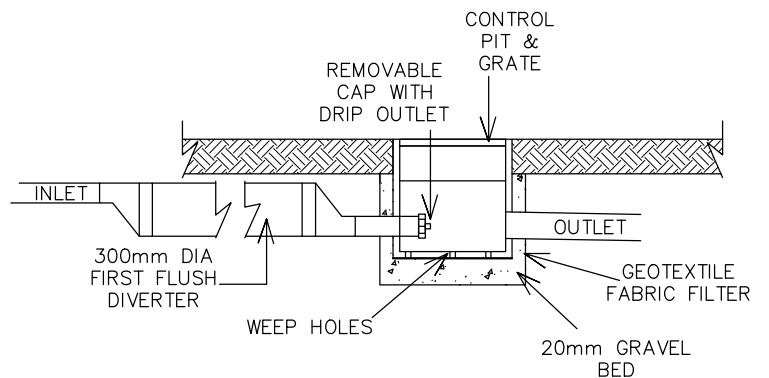
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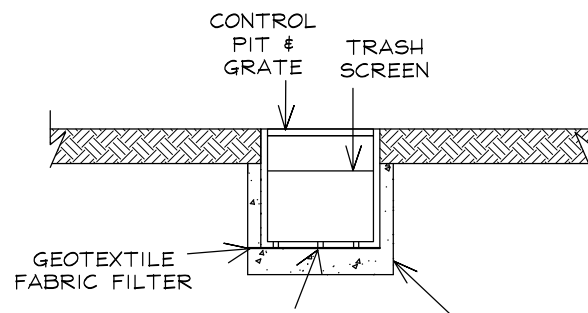
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REV

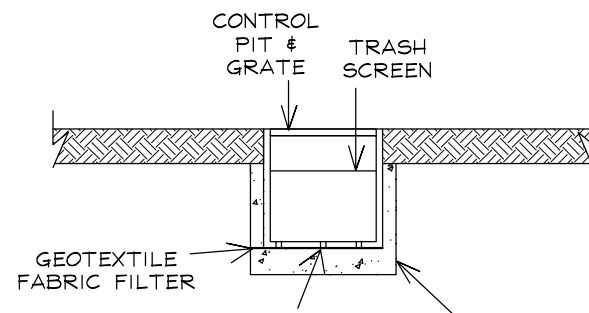
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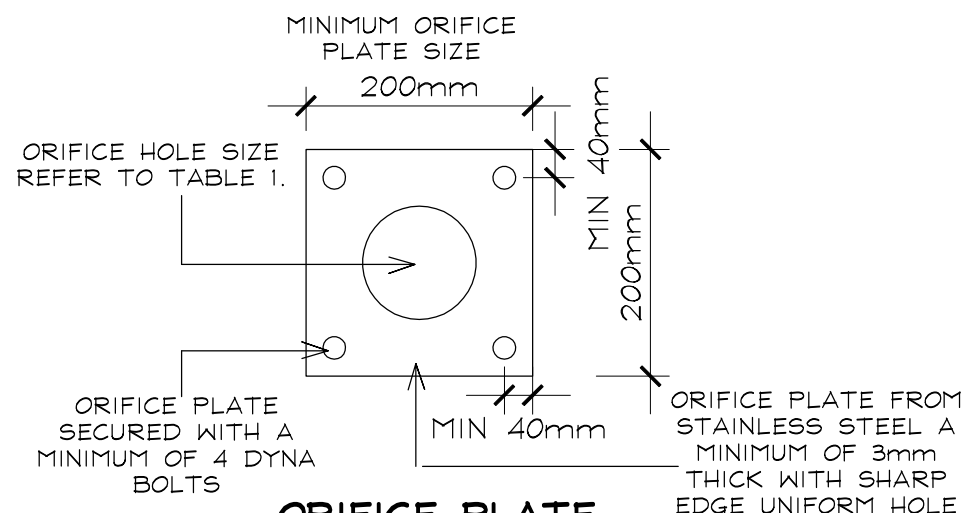
IN LINE F.F.D. & CONTROL PIT
N.T.S.



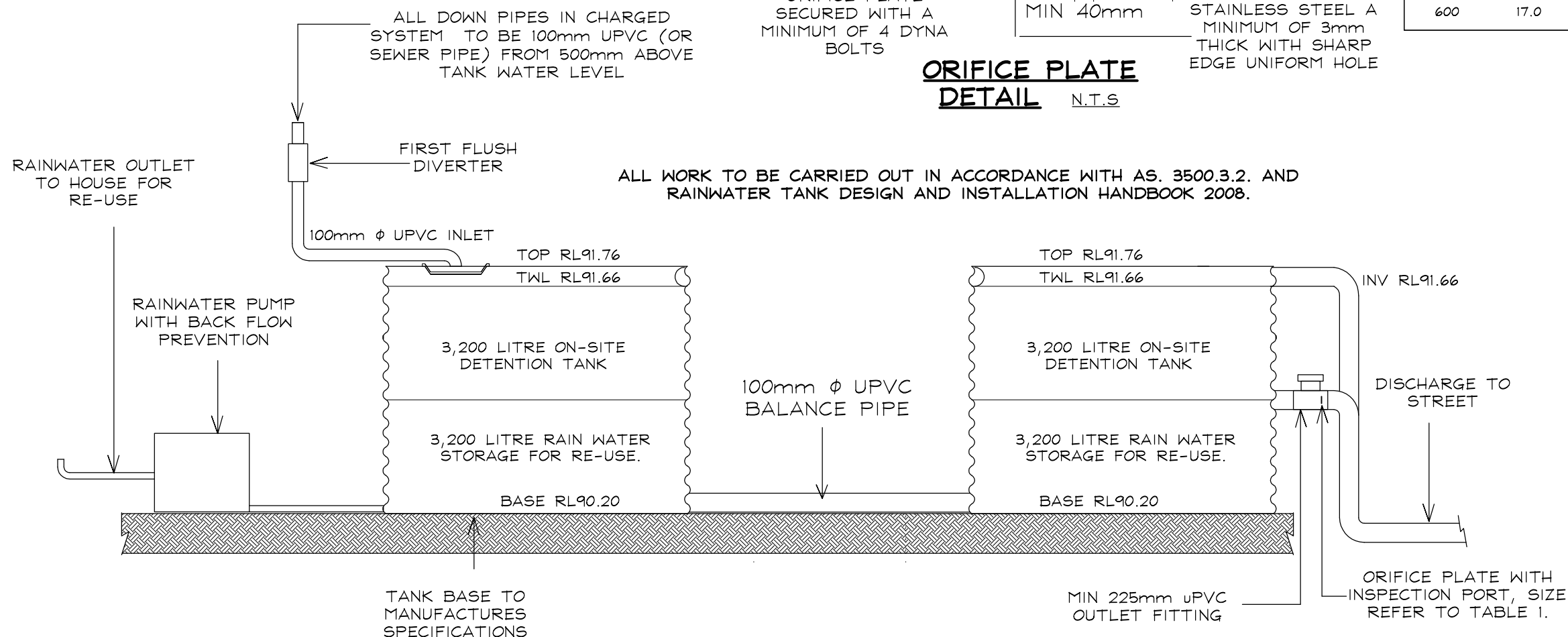
**SECTION 2
CONTROL PIT**
N.T.S.



**SECTION 2
CONTROL PIT**
N.T.S.



**ORIFICE PLATE
DETAIL** N.T.S.



SECTION 1 RAINWATER TANK
N.T.S.

**STREAMLINE METHOD DETAILS IN ACCORDANCE WITH
APPENDIX 13 - NORTHERN BEACHES COUNCIL WATER
MANAGEMENT DEVELOPEMENT POLICY**

TABLE 1.

SITE AREA	640.8 m2
EXISTING IMPERVIOUS AREA	313.01 m2
POST IMPERVIOUS AREA	330.2 m2
NORTHERN BEACHES COUNCIL WMDP ONSITE DISPOSAL REQUIREMENTS REGION	REGION 2
DESIGN IN ACCORDANCE WITH SECTION REGIONAL ZONE	9.3.2.3. NA IN REGION 2
ALL DRAINAGE SYSTEMS FED BY GRAVITY	YES
CONNECTED TO COUNCIL DRAINAGE SYSTEM	YES
MINIMUM SITE STORAGE REQUIRED - 200m2 Per HA	12.8 m3
POST SITE STORAGE PROPOSED	12.8 m3
POST RAINWATER RE-USE STORAGE (BASIX)	6.4 m3 - 50%
POST ONSITE DETENTION STORAGE (AFTER BASIX OFF-SET)	6.4 m3 - 50%
POST TANK CONSTRUCTION	ABOVE GROUND
MAXIMUM PERMISSABLE SITE DISCHARGE - 400 l/s Per HA	25.6 l/s

NBC - WMDP - APPENDIX 9 - ORIFICE TABLE 3 DETAILS	
MAXIMUM PSD	18
DEPTH TO CENTRE OF ORIFICE PLATE	0.9 m
SIZE OF ORIFICE	95 mm
MINIMUM DIAMETER OF OUTLET PIPE	225 mm

NBC - WMDP - APPENDIX 8 - SSR AND PSD TABLE DETAILS					
WITH IMPERVIOUS AREAS < 60% OF SITE AREA					
SITE AREA	MIN SSR	MAX 5Y PSD	MAX 100Y PSD	MAX O/FLOW	
m2	m3	l/s	l/s	l/s	
600	17.0	18	36	18	

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JOB No. **CC172** DWG. No. **15** REV **02**

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ASK