

NOTES:

- 1. LEVELS AND SITE LAYOUT BASED ON ARCHITECTURAL PLANS BY BLUE SKY BUILDING DESIGNS AND SITE SURVEY BY C.M.S. SURVEYORS (DATED 08/12/17).
- 2. CONCEPT PLAN ONLY NOT FOR CONSTRUCTION. REFER TO DWG 11434/2-C1.00 FOR SITE PLAN.
- 3. MIN 8kL RAINWATER REUSE STORAGE TO BE PROVIDED IN ACCORDANCE WITH P21 DCP. REFER TO DWG 11434/2-C1.00 FOR SITE PLAN. TANKS HAVE BEEN LOCATED ABOVE GROUND TO MINIMISE POTENTIAL FOR ACID SULPHATE SOIL MOBILISATION, WITH APPROPRIATE FLOOD COMPENSATORY WORKS OUTLINED IN THE FLOOD ASSESSMENT SUBMITTED WITH THE DA.
- 4. DOWNPIPE LOCATIONS ARE INDICATIVE ONLY AND MAY BE CHANGED TO SUIT. ALL DOWNPIPES TO BE CONNECTED TO ROOFWATER DRAINAGE SYSTEM DISCHARGING TO RAINWATER REUSE TANK, WITH NO SURFACE WATER DRAINAGE CONNECTIONS. ROOF DRAINAGE TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH AS3500. PIPEWORK MAY BE LAID IN GROUND AND CHARGED TO RAINWATER TANK (CHEMICALLY SEALED PRESSURE PIPE) OR SECURED TO SOFFIT OF LEVEL ONE SLAB TO DISCHARGE TO RAINWATER TANK BY GRAVITY.
- 5. RAINWATER TANK(S) TO BE CONNECTED TO EXTERNAL TAP(S) FOR LANDSCAPE IRRIGATION AND PLUMBED TO THE INDOOR WATER SUPPLY IN ACCORDANCE WITH SYDNEY WATER AND BASIX REQUIREMENTS.
- 6. ALL INVERT LEVELS PROVIDED ON THIS DRAWING ARE REDUCED TO AHD AND BASED ON INTERPOLATED SURFACE LEVELS AND SYSTEM REQUIREMENTS.

SITE CALCULATIONS

SITE AREA	980m²	
IMPERVIOUS AREAS (m²) ROOFING DRIVEWAYS & ACCESS TERRACE AND GREEN ROOF	219 69 67	
TOTAL IMPERVIOUS AREA	355m² (36%)	
P21 RAINWATER REUSE REQUIREMENT	8kL	
OSD - NOT REQUIRED DUE TO LOCATION WITHIN FLOODPLAIN		

LEGEND:

STORMWATER DRAINAGE PIPE ROOFWATER DRAINAGE PIPE • SWP SURFACE WATER INLET AND PIPEWORK DOWNPIPE CONNECTION TO ROOFWATER PIPE • RW/DP EXISTING SURFACE CONTOUR (mAHD) EXISTING SURFACE LEVEL (mAHD) CONCRETE SLAB ACCESS PAVED TERRACE ROOF GARDEN

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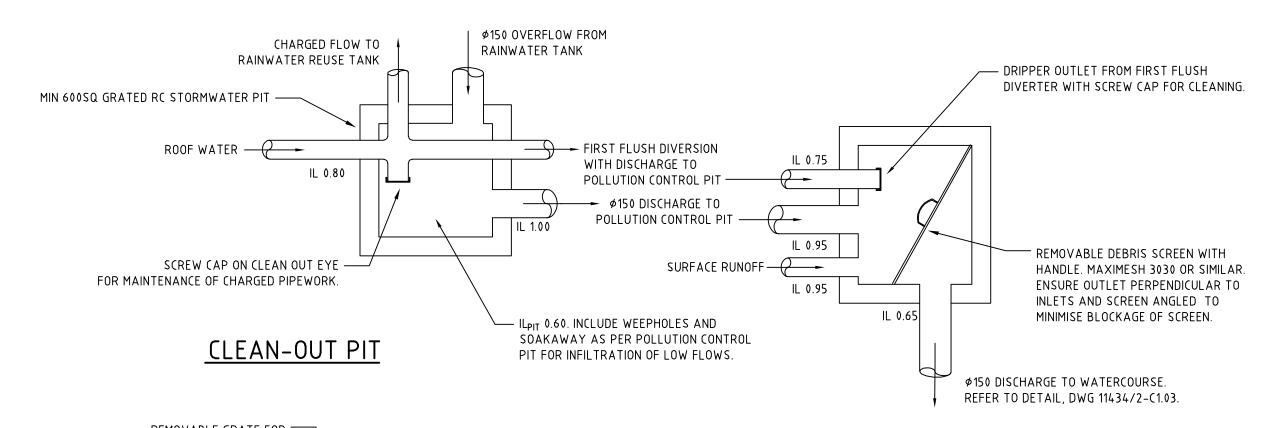
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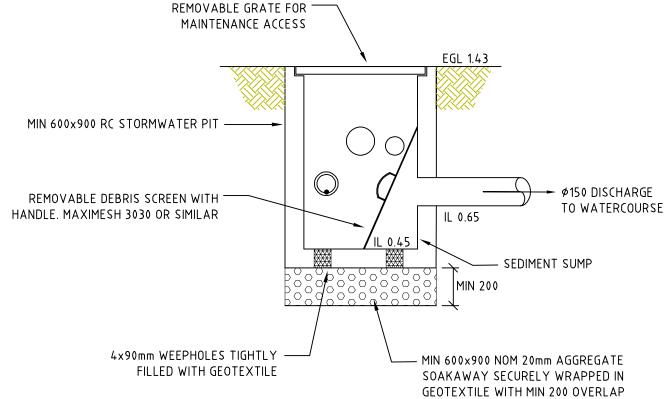
ACN 130 522 851 Structural and Civil Engineering Consultants Suite 6, Level 5, 22 Central Avenue Manly NSW P.O. Box 1044 Manly NSW 1655 Phone (02) 9976 0070 Fax (02) 9976 0095 Email enquiries@wadconsulting.com

ROJECT:	
	PROPOSED RECREATION CENTRE
at:	39 CABBAGE TREE ROAD, BAYVIEW
	for: J CRAWFORD & J CRÁWFORD

PERMEABLE (SEGMENTED) PAVING

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PROPOSED RECREATION CENTRE	DESIGN: K.W. DATE: AUG 2019 DRAWN: K.W. SCALE: 1:200 FILENAME: 11434/2-(1.00 (A).DWG
at: 39 CABBAGE TREE ROAD, BAYVIEW for: J CRAWFORD & J CRAWFORD	SIGNED: SIZE
STORMWATER MANAGEMENT CONCEPT	T 11434/2-C1.01 A





POLLUTION CONTROL PIT - SCHEMATIC SECTION

POLLUTION CONTROL PIT

WATER QUALITY MANAGEMENT

CATCHMENT AREA	WATER QUALITY TREATMENT MEASURE
ROOF (219m²)	RAINWATER TANK – FIRST FLUSH DIVERSION, INLET FILTER, SEDIMENTATION AND REUSE
TERRACE (25m²)	POLLUTION CONTROL PIT
ROOF GARDEN (35m²)	INFILTRATION, SUBSOIL DRAINAGE TO POLLUTION CONTROL PIT
DRIVEWAY AND ENTRY (69m²)	RAINSCAPING

NOTES

1. REFER TO DWG 11434/2-C1.00 FOR SITE PLAN AND DWG 11434/2-C1.01 FOR NOTES.

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PROPOSED RECREATION CENTRE at: 39 CABBAGE TREE ROAD, BAYVIEW for: J CRAWFORD & J CRAWFORD
STORMWATER QUALITY DETAILS

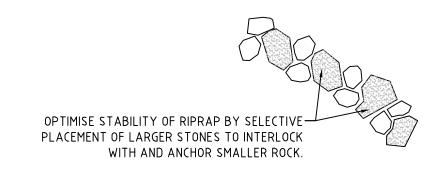
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NOTES:

REFER TO DWG 11434/2-C1.00 FOR SITE PLAN AND DWG 11343/2-C1.01 FOR NOTES

NOTES - RIP RAP

- ROCK TO BE HARD, DURABLE SANDSTONE, FREE OF DEFINED CLEAVAGE PLANES AND PREDOMINANTLY BLOCKISH OR ANGULAR IN SHAPE.
- 2. TOE AND PERIMETER ROCKS TO BE PLACED FIRST AND TWO THIRDS OF EACH ROCK IN BASE LAYER TO BE EMBEDDED INTO UNDISTURBED MATERIAL.
- 3. ALL ROCK TO BE CAREFULLY PLACED AND KEYED INTO POSITION TO CREATE A STABLE, INTERLOCKING MASS WITH NO SIGNIFICANT VOIDS. ROCK SHALL NOT BE DUMPED. VOIDS TO BE FILLED WITH SMALLER ROCKS TO PREVENT WASHOUT OF UNDERLYING MATERIAL. NO ROCKS SHOULD UNDULY PROTRUDE FROM THE BED.
- 4. SURFACE TO BE SMOOTH AND FREE OF IRREGULARITIES AND PROTRUSIONS PRIOR TO PLACEMENT OF GEOTEXTILE. GEOTEXTILE TO BE SECURELY WRAPPED AROUND ROCKS AT ENDS, WITH MIN 300mm OVERLAP AT JOINS AND ENDS.

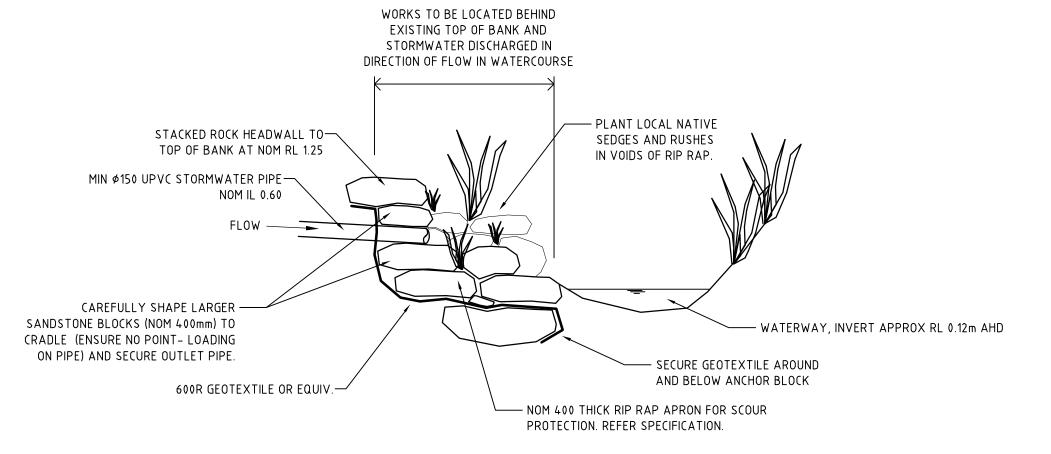


ROCK GRADATION

NOCK GNADAT	IOIN
EQUIVALENT DIAMETER	% SMALLER
0.3 x D ₅₀ D ₅₀ 1.5 x D ₅₀ 2 x D ₅₀	10-20% 50% 90% 100%

ROCK SIZE

EQUIVALENT DIAMETER	SIZE
D ₈₅	400mm
D ₅₀	300mm
D ₁₅	150mm



SECTION - OUTLET TO WATERWAY

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A ISSUED FOR DEVELOPMENT APPROVAL
ISSUE DESCRIPTION BY APR DATE

FESSIONAL ENGINEERS:

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STORMWATER OUTLET DETAILS

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