

DP 4784
LOT 21
SEC 5

LOT 222

DP 12455
LOT 135

GROUND FLOOR LAYOUT

REFER TO SHEET 2 FOR RAINWATER TANK DETAILS.
LEAF GUTTER GUARDS OR SIMILAR SCREENING
RECOMMENDED TO ALL GUTTERS.

WHSA HAZARD IDENTIFICATION:
TRENCHING—ALL PERSONS TO FOLLOW THEIR APPROVED SWMS
IN RELATION TO BARRICADING DEEP TRENCHES AND WEARING
APPROPRIATE CLOTHING. ANY PERSON WORKING INSIDE A
TRENCH MUST BE SUPERVISED BY ANOTHER PERSON.
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.
INSTALLATION OF DOWNPIPES AND GUTTERING TO BE CARRIED
OUT IN ACCORDANCE WITH INSTALLERS APPROVED SWMS.

(X) RIGHT OF CARRIAGEWAY 1.3 WIDE AND VARIABLE
(Y) EASEMENT TO DRAIN WATER 3.5 WIDE
(Z) EASEMENT FOR SEWERAGE PURPOSES OVER EXISTING LINE OF PIPES
(APPROXIMATE POSITION)

STORMWATER LAYOUT NOTES

—PITS UP TO 450 DEEP TO BE 350SQ U.N.O., PITS UP TO 600
DEEP TO BE 450 SQ U.N.O., PITS UP TO 900 DEEP TO BE 600 SQ
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. MAX. 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' 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.
—GUTTER 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
—RISING MAINS (PRESSURE PIPE) TO BE IN ACCORDANCE WITH
AS3500.1:2.
—SUBSOIL DRAINS TO BE IN ACCORDANCE WITH AS2439.1 CLASS
100 TO BE USED ONLY IN SINGLE DWELLINGS.
—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.
—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 OR SIMILAR
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.

PROVIDE GUTTER GUARDS TO ALL GUTTERS

OWNER RESPONSIBLE FOR ATTAINING COMPLIANCE WITH BCA
FOR EXTERIOR GROUND LEVELS WHERE LEVELS AND FALLS
AS SHOWN ARE NOT MAINTAINED. COMPLIANCE WITH OTHER
AREAS INCLUDING BUT NOT LIMITED TO TERMITE PROTECTION
MUST NOT BE COMPROMISED IN DOING SO.

PIPE SCHEDULE

REFER TO NOTES FOR PIPE CLASS

TAG	PIPE DIA.	MIN.GRADE
B1	100	CHARGED
B2	100	1%
C1	125x75 GAL. PIPE	1%

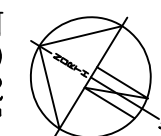
LEGEND

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.O.00	GARAGE FLOOR LEVEL
F.F.L.O.00	FINISHED FLOOR LEVEL
A,B,C etc.	SEE PIPE SCHEDULE PIPE LABEL
PIT P1	SURFACE INLET PIT
PIT OP1	OVERLAND FLOW PIT
90mm. AG. LINE	
ODP	DOWNPIPE—SIZE
REFER TO NOTES FOR DP SIZE	
GP	GULLY PIT
GP	GARDEN GULLY PIT
O/F	OVERFLOW—200x100
RWH/S	RAIN WATER HEAD/SUMP
SP	DP WITH SPREADER
BG	BALCONY GULLY PIT
CE	CLEANING EYE
	GROUND FALL
))))	100 HIGH EARTH MOUNDING

ALL OTHER SURFACE WATERS
TO BE STRICTLY CONNECTED
TO A SEPARATE SYSTEM BY
OWNER IN ACCORDANCE WITH
AS 3500:3:2003 AND BCA
PART 3.1.2.3.

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

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REVISIONS

MORETON STREET

* CONNECTION POINT TO KERB TO BE WITHIN SITE
PROLONGATION OF SIDE BOUNDARY
* SAWCUT AND REMOVE 200mm OF KERB EITHER SIDE OF
OUTLET PIPE TO KERB.
* CONNECTION AND RE-CONSTRUCTION OF OLD KERB
OUTLETS TO BE IN ACCORDANCE WITH STD DRAWING S107
* CONNECTION POINT TO KERB TO BE 200mm CLEAR OF
ANY CROSSING SPLAY
* CONNECTION POINT TO BE AT THE INVERT OF THE KERB
AND GUTTER

ISSUE	PRINTS	ISSUED TO	DATE
1	EMAIL	BUILDER/CLIENT	24-8-22

SCALE(A3)1:200,100 u.n.o.
SCALE BAR - 1m INTERVALS
DATE AUG. 2022
DRAWN M.I.
DESIGNED M.I.
APPROVED



IBRAHIM STORMWATER CONSULTANTS CONSULTING CIVIL ENGINEERS

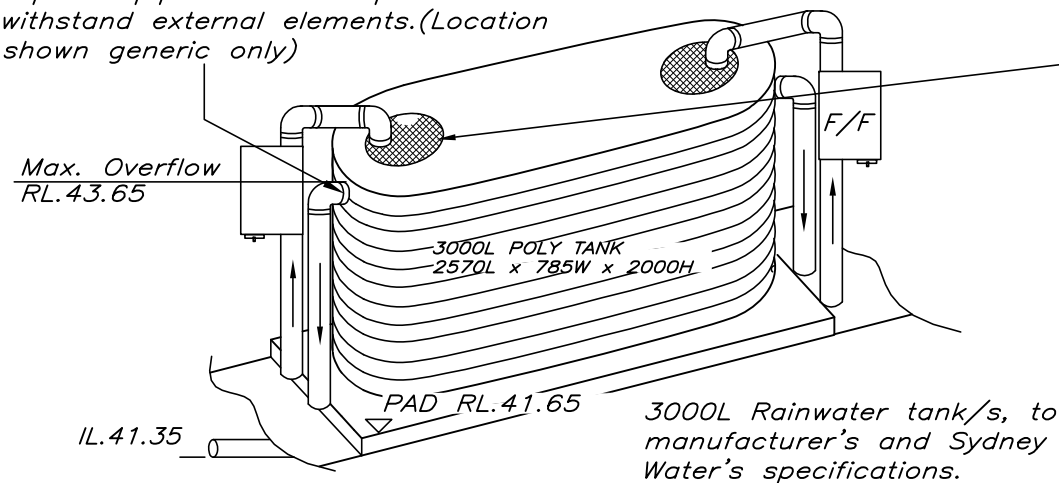
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PROJECT
**PROPOSED RESIDENCE
AT 100 MORETON STREET,
LAKEMBA
FOR MR. V. V. NGUYEN**

THIS DRAWING JOB NUMBER
**STORMWATER
LAYOUT SH.1 E10971-26742**
BUILDER SHEET No. REVISION
EDEN BRAE HOMES **1 of 2**

TWIN 90/100Dia. Overflow pipes to Pit P1. Outlet to be mosquito proofed. All exposed pipework to be painted to withstand external elements.(Location shown generic only)

Max. Overflow
RL.43.65



RAINWATER TANK

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 Water Authority and council DCP's. An approved switch system similar to 'Rainbank' to be used via mains. Pumps to manuf. specs.

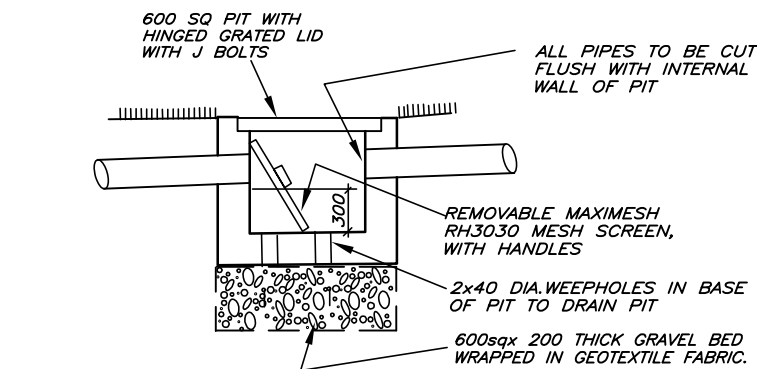
Rain Tank to be installed and maintained to manufacturers specifications and to comply with all Water Authority Guidelines.

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:

INSTALLATION OF RAIN TANKS: 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.



SILT ARRESTOR PIT – P1

WHSA

ALL NEARBY SERVICES TO BE LOCATED PRIOR EXCAVATIONS.

ALL PIPES TO BE CUT FLUSH WITH PIT WALLS AND SPARGED.

PITS EXCEEDING 600mm IN DEPTH TO HAVE LOCK DOWN MECHANISM.

SAFETY GEAR TO BE WORN AT ALL TIMES. INCLUDING FOOTWEAR, CLOTHING

AND GLOVES AS PER SWMS.

Leaf Gutter Guard or Downpipe Guard recommended.

Mosquito proof strainer or cover – regular cleaning/maintenance by owner essential

Internal submersible or external pumps to supply garden taps and internal re-use per Basix assessment. Location as per architecturals.

Charged pipes shown

INLET LEVEL OF CHARGED LINES TO BE A MINIMUM AS SHOWN BELOW ALL CONNECTED GUTTERS.

First flush water diverter at tank as req'd by L.G.A. F/F

I.O. – Cleaning eye to all charged pipelines for maintenance of charged system.

BUILDER/CLIENT TO ENSURE THAT ALL SAFETY MEASURES ARE TAKEN 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.

REVISIONS

ISSUE	PRINTS	ISSUED TO	DATE
1	EMAIL	BUILDER/CLIENT	24-8-22

SCALE(A3) 1:200, 100 u.n.o.

SCALE BAR – 1m INTERVALS

DATE AUG . 2022

DRAWN M.I.

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APPROVED



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PROJECT

**PROPOSED RESIDENCE
AT 100 MORETON STREET,
LAKEMBA
FOR MR. V. V. NGUYEN**

THIS DRAWING

**STORMWATER
DETAILS SH.1**
BUILDER
EDEN BRAE HOMES

JOB NUMBER

E10971-26742

SHEET No.

2 of 2

REVISION

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