

## **On-site Stormwater Detention (OSD) Checklist**

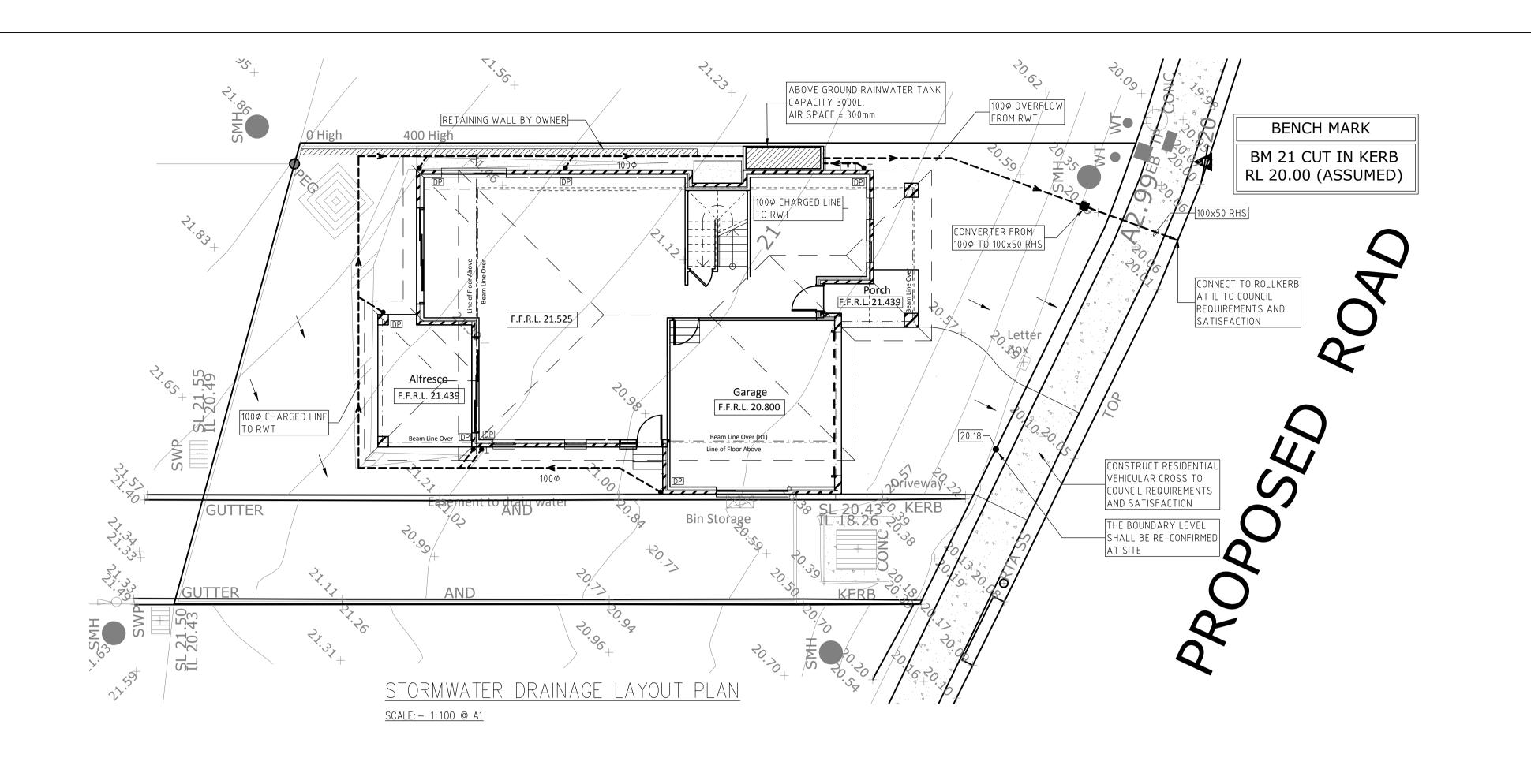
For Single Dwelling Residential Developments

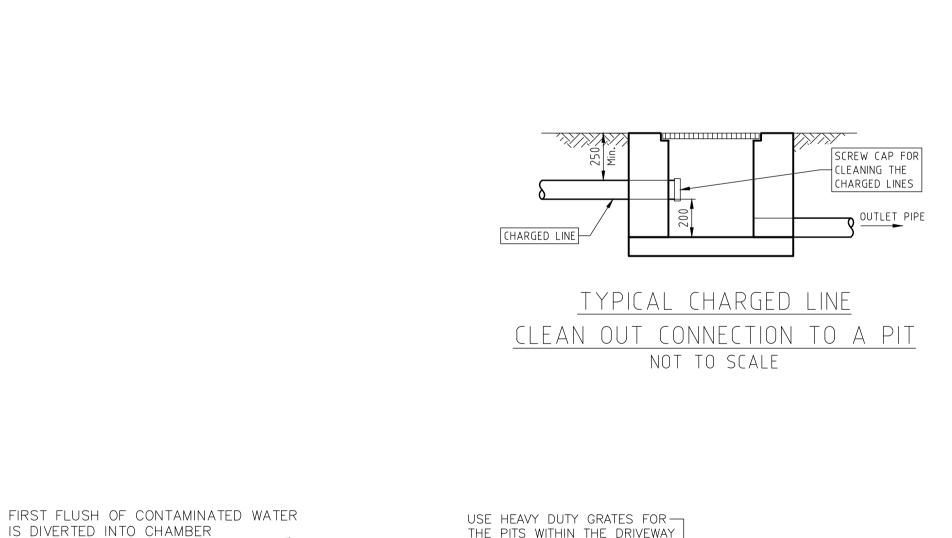
This form is to be used to determine if OSD will be required for demolition and reconstruction, or construction of new single dwelling residential developments and **must be completed and included with the submission of any development application for these works**. Please read both sides of this form carefully for its applications, guidelines and definitions.

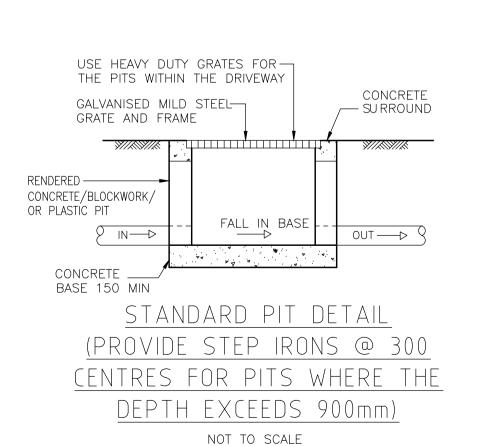
For assistance and support, please contact Council's Customer Service Centre on (02) 9942 2111.

Address of Proposed Development					
Address of proposed development	Lot  20 DP (if applicable)  UNREQ  No. 29-31 Street WARRIEWOOD ROAD  Suburb  WARRIEWOOD				
PART 1 Exemption for properties that drain naturally away from the street					
Tick one only	Does the site fall naturally away from the street?  Yes No				
PART 2 Is the site area less than 450m <sup>2</sup>					
Tick one only	Yes No No If yes, OSD is not required.  If no, proceed to next part.				
PART 3 Exemption for Direct Discharge to Ocean					
Tick one only	Does the site of the development drain directly to the ocean without the need to pass through a drainage control structure such as a pipe, bridge, culvert, kerb and gutter or natural drainage system?  Yes No If yes, OSD is not required.  If no, proceed to the next part.				

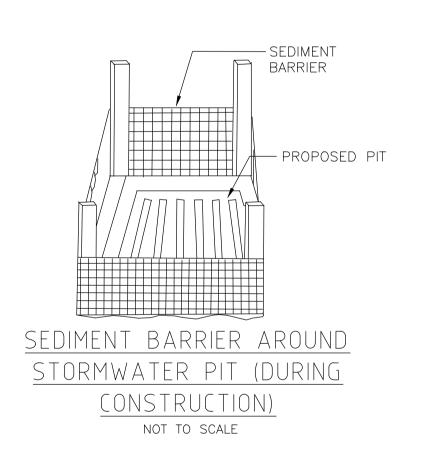
PART 4 Exemption for Flood Affected Areas					
Tick one only	Is the site of the development located within an established Flood Prone Land as referred to in the Warringah Local Environmental Plan?  Refer to section 2.6 of Council's OSD Technical Specification.				
	Yes No No				
	If yes, OSD is not required.				
	If no, proceed to the next part.				
PART 5 De	termination of OSD Requirements				
3.1 Calculations	(a) Site aream <sup>2</sup> x 0.40 =m <sup>2</sup>				
	(b) Proposed and remaining impervious aream <sup>2</sup>				
Please view below examples	OSD will not be required when (a) is greater than (b)				
examples	Is OSD required for this development (tick one only)  Yes No				
	If yes, then a design in accordance with the Streamlined Method in Council's OSD Technical Specification is to be provided with the Development Application (refer to Clause 3.1.1)				
	If no, OSD is not required.				
3.2 Example	If the proposed combined impervious area is greater than 40% of the site area, then OSD is required.				
	Example 1: Site Area = 600m <sup>2</sup> Total proposed & remaining impervious area = 290m <sup>2</sup>				
	600 x 0.4 = 240m <sup>2</sup> (290 > 240) OSD required				
	Example 2: Site Area = 800m <sup>2</sup> Total proposed & remaining impervious area = 290m <sup>2</sup>				
	800 x 0.4 = 320m <sup>2</sup> (290 < 320) OSD is <b>not</b> required				
DEFINITIONS					
Designed to help you fill out this application	Site area: This refers to the area of the land bounded by its existing or proposed boundaries.				
	Impervious areas: This refers to driveways, pathways, paved areas, hardstand areas, roofed areas, garages and outbuildings that are proposed and to be retained.				
	Where an existing structure is to be demolished to make way for a new dwelling, only the proposed impervious areas and remaining impervious areas are to be used in the calculations. No credit is given for existing impervious areas that are not retained.				
NOTES					
Please read before filling out this form	Other works, ancillary buildings, commercial, industrial, subdivisions and multiple occupancy developments are to comply with Council's OSD Technical Specification.				
	2. A reduction in the OSD volume required may be permitted. Refer to Council's "OSD Rainwater Re-use Policy for Single Residential Dwellings". If OSD is required, then a design for OSD in accordance with Council's "OSD Technical Specifications" is to be provided with the development application.				

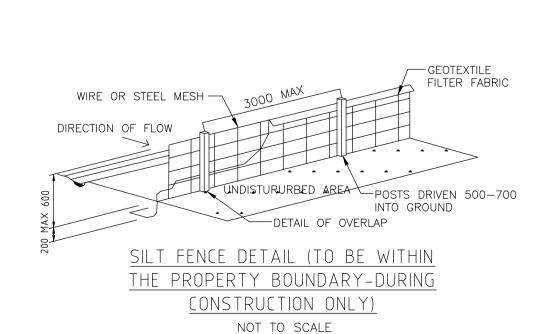






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Drawing Title:

## CAUTION: ALL THE LEVELS AND DIMENSIONS ARE CRITICAL. PLEASE FOLLOW THE SW PLAN FOR CONSTRUCTION TO AVOID FINAL CERTIFICATION DELAY. IF YOU SEE SOMETHING NOT CORRECT OR NOT SUITED FOR SITE PLEASE CONTACT THE STORMWATER ENGINEER FOR CLARIFICATION AND FURTHER

NOTE: PLEASE FOLLOW THE RAINWATER TANK LEVELS AT SITE

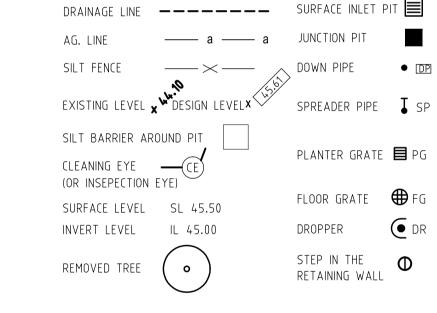
DIRECTIONS.

NOTE: THE PIT SURFACE LEVELS AND THE TOP OF RETAINING WALLS SHALL BE RE-CONFIRMED AT SITE

NOTE: PRIOR TO CONSTRUCTION THE BUILDER IS TO COORDINATE ALL THE PLANS (ARCHITECTURE PLAN, LANDSCAPE PLAN, STRUCTURAL ENGINEER'S PLAN AND THE STORMWATER PLAN) TO MAKE SURE ALL THE DESIGN LEVELS, DOWNPIPE LOCATIONS AND THE FLOOR LEVELS ARE SAME IN ALL THE PLANS.

## THE SURFACE INLET PITS SHALL BE HEAVY DUTY PLASTIC PITS

NOTE:



**RAINWATER TANK NOTES:** 

OUTDOOR WATERING AS PER BASIX REQUIREMENT.

TANKS SURFACES WILL HAVE NON REFLECTIVE FINISH.

SIGNAGE WILL BE PLACED ABOVE ALL TANK WATER OUTLETS.

RAINWATER CONNECTION:

NON DRINKING:

FULLY ENCLOSED:

WARNING LABELS:

WATER PRESSURE:

BACK FLOW PREVENTION:

ON GOING MAINTENANCE:

NOTES:

NOT 5 dBA ABOVE BACKGROUND NOISE)

NSW CODE OF PRACTICE:PLUMBING AND DRAINAGE

TANKS WILL BE WELL KEPT AND MAINTAINED.

ORDER DURING THE TIME OF CONSTRUCTION.

8. U.N.O. ALL PIPES TO BE 100Ø CLASS 'SH' WITH 1% MIN SLOPE.

7. U.N.O. ALL DOWN PIPES ARE TO BE 100Ø.

DRAINAGE DISCHARGE PIPE.

WELD JOINTED.

LEGEND

NON REFLECTIVE FINISH:

RAINWATER TANK HAS A CAPACITY AS MARKED IN THE PLAN.

'FIRST FLUSH' DEVICE WILL BE FITTED TO REMOVE SURFACE CONTAMINATION.

TANK WATER WILL NOT BE CONNECTED TO DRINKING OR BATHING WATER OUTLETS.

TANKS WILL BE FULLY ENCLOSED AND SEALED TO PREVENT ACCESS BY MOSQUITOES.

TANKS WILL BE BUILT ON A SELF SUPPORTING BASE (ABOVE TANKS GROUND ONLY)

A BACK FLOW PREVENTION DEVICE WILL BE PROVIDED AT THE MAINS WATER METER

A TRICKLE TOP-UP SYSTEM WILL BE PROVIDED AT THE MAINS WATER.

WATER WILL BE DRAWN FROM ABOVE THE ANAEROBIC ZONE OF TANKS.

PLUMBING AND DRAINAGE-WATER SUPPLY-ACCEPTABLE SOLUTIONS.

TANKS WILL BE FITTED WITH SMALL MOTORISED PUMP TO PROVIDE ACCEPTABLE WATER PRESSURE.

A BACK UP SUPPLY OF MAINS WATER WILL BE PROVIDED IN EVENT OF FALIURE OR MAINTENANCE.

TANKS WILL BE PROVIDED WITH AN AIR GAP IN ACCORDANCE WITH AS/NZ 3500.1.2 AND AS2845.2

PUMP WILL BE DESIGNED AND LOCATED NOT TO CAUSE A NOISE DISTURBANCE TO NEIGHBOURS (GENERALLY

WILL BE INSTALLED BY A LICENSED PLUMBER IN ACCORDANCE WITH SYDNEY WATER REQUIREMENTS AND THE"

TANKS WILL BE STRUCTURALLY SOUND AND CONSTRUCTED IN ACCORDANCE WITH AS/NZ3500.1.2-1998:NATIONAL

1. ALL WORKS TO BE CONSTRUCTED TO THE REQUIREMENTS AND SATISFACTION OF NORTHERN BEACHES COUNCIL. 2. PRIOR TO COMMENCEMENT OF ANY SITE WORKS. THE BUILDING CONTRACTOR/PLUMBER HAS TO EXPOSE ALL SERVICES IN THE FULL WIDTH OF THE FOOTPATH TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE

9. ALL THE RETAINING WALLS TO STRUCTURAL ENGINEERS DETAIL AND SHOULD BE WITHIN THE SITE BOUNDARY. 10. ALL THE DOWN PIPES FROM THE ROOF GUTTER TO RAINWATER TANK SHALL BE CHARGED LINES AND SOLVENT

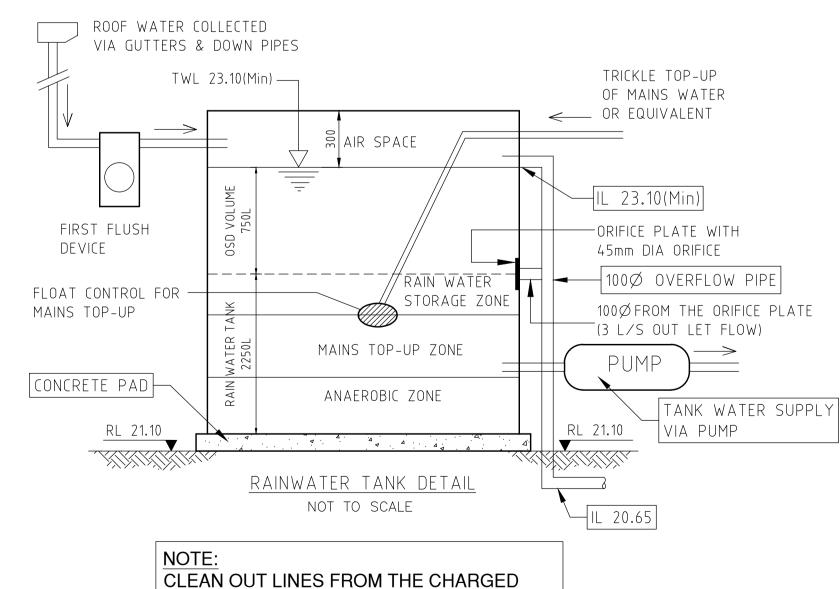
3. THE DRAINAGE CONTRACTOR IS TO LOCATE AND RELOCATE AS NECESSARY ALL SERVICES ON SITE. 4. THE BUILDER IS TO VERIFY ALL LEVELS ON THE SITE PRIOR TO COMMENCING CONSTRUCTION. 5. SILT FENCE IS TO BE ERECTED PRIOR TO COMMENCING WORK. FENCE TO BE MAINTAINED IN WORKING

6. W.A.E. DRAWING BY A REGISTERED SURVEYOR IS REQUIRED PRIOR TO CERTIFIATION OF DRAINAGE.

TANK WATER WILL BE PLUMBED TO ALL TOILETS,AN OUTLET IN THE LAUNDRY FOR WASHING MACHINES AND ALL

A LABEL WILL BE AFFIXED TO THE TANKS WARNING THAT WATER IS NOT TO BE CONSUMED AND RAINWATER

THE ROOF SURFACE FROM WHICH RAINWATER IS BEING DRAWN WILL NOT CONTAIN LEAD, TAR, ASBESTOS OR PAINTS



		DESIGN BY:

Description

WATER FLOW

FIRST FLUSH WATER DIVERTER DETAIL

ISSUED FOR DA APPROVAL

NOT TO SCALE

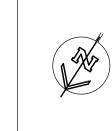
FROM ROOF

08.08.18

Issue Date

VNK CONSULTING Pty Ltd PO BOX 9118 Harris Park NSW 2150 Mobile: 0401 132 386 Email: VNKCONSULTING@GMAIL.COM PRINCIPAL ENGINEER: LOGAN N LOGESWARAN BscEng, MEng, MEngStud, MASCE, MIEAust, CPEng, NER

STORMWATER DRAINAGE LAYOUT PLAN



DESIGNED	NL	P
DRAWN	АЈ	
DATUM	ASSUMED	
DATE	08.08.2018	

PROPOSED DWELLING LOT 20 KARINYA ESTATE WARRIEWOOD NSW 2102

LINES TO BE CONNECTED TO THE NEAREST

PITS WITH END CAP AT THE PIT END

080818-01 Issue: SHEET 1 of 1