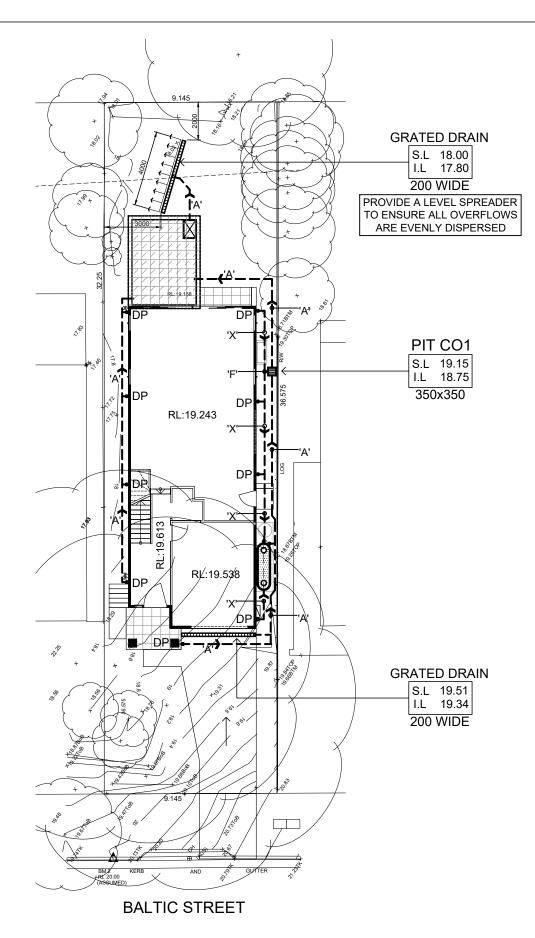


SITE STORMWATER MANAGEMENT LAYOUT

SCALE 1:200/A3



#### PIPE SCHEDULE

THE CONEDULE										
TAG	SIZE	MATERIAL	GRADE	DESCRIPTION						
'A'	100 Ø	P.V.C	1% MIN	REGULAR GRAVITY PIPE						
'B'	150 Ø	P.V.C	1% MIN	REGULAR GRAVITY PIPE						
'X'	100 Ø	P.V.C	CHARGED	TO FEED RAINWATER TANK						
'F'	100 Ø	P.V.C	1% MIN	FLUSHING LINE - CAPPED END						

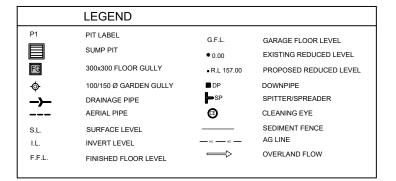
NOTE, ALL PIT & PIPELINE LOCATIONS SHOWN ON PLAN ARE INDICATIVE. BUILDER TO DETERMINE BEST POSITION FOR PLACEMENT WITHIN A 1m TOLERANCE OF WHAT IS SHOWN ON PLAN.

THROUGH PITS CAN ALSO BE ADJUSTED TO BE 'END OF LINE' WITH THE OUTLETS TO JUNCTION INTO THE MAIN GRAVITY LINE IF LEVELS PERMIT. TYPE & POSITION OF PITS TO BE TO THE DISCRETION OF THE BUILDER & PLUMBER DURING CONSTRUCTION. IF IN DOUBT CONTACT DESIGN ENGINEER.

#### STORMWATER LAYOUT NOTES

- 1) PITS DEEPER THAN 600mm TO BE 600 X 900 W, ELSE 375 SQ U.N.O.
- 2) ALL PIPES TO HAVE 1% MIN. GRADE U.N.O.
- 3) ALL DOWNPIPES TO BE 100 X 50 BOX or 90 Ø.
- 4) PIPES TO BE U.P.V.C. OR STORMWATER PIPE TO A.S.1254
- 5) PITS TO BE STANDARD PRECAST CONCRETE PITS OR BRICK RENDERED WITH CONCRETE HEAVY DUTY GRATES SIZED AS PITS PER PLAN.
- 6) NO SEWER VENTS, GULLY PITS OR SIMILAR TO BE LOCATED BELOW THE MAXIMUM WATER SURFACE LEVEL IN DETENTION
- 7) PERSONS UTILISING THIS PLAN FOR ANY PURPOSES SHALL VERIFY THE DATUM & RESPECTIVE LEVELS PRIOR TO

- COMMENCING ANY WORKS & NOTIFY THE ENGINEER OF ANY DISCREPANCIES
- 8) DRIVEWAY LEVELS PROVIDED FOR DRAINAGE DESIGN PURPOSES ONLY. LEVELS MAY BE ADJUSTED TO SUIT FINAL HOUSE CUT/FILL CONDITIONS BUT NEED TO MAINTAIN INTENT OF DRAINAGE SYSTEM. ENGINEER TO BE CONSULTED PRIOR TO CONSTRUCTION TO ENSURE INTENT MAINTAINED.
- 9) END OF EXISTING DRAINAGE LINE TO BE EXPOSED & LEVELS CONFIRMED BY BUILDER PRIOR TO COMMENCEMENT OF WORKS
- 10) BUILDERS TO ENSURE SERVICES CONNECTIONS TO HOUSE DO NOT CONFLICT WITH DRAINAGE DESIGN REQUIREMENTS.
- 11) ALL WORKS TO BE CONSTRUCTED TO GOOD BUILDING PRACTICE & MATERIALS TO MEET ACCEPTED SPECIFICATIONS



THE REQUESTS TO CREATE AN EASEMENT THROUGH THE REAR NEIGHBOURS (15-21 DAINTREY STREET, FAIRLIGHT) HAS BEEN DENIED. REFER TO THE COMPLETED STATUTORY DECLARATION DATED 5/9/2025.

HENCE, A DETAILED ANALYSIS OF THE SITE HAS BEEN CONDUCTED TO MODEL THE SITE FLOWS TO BE LIMITED TO THE UNDEVELOPED STATE-OF-NATURE CONDITIONS. OUR DESIGN SHOWS THAT THE MAJORITY OF THE ROOF AREA IS DIRECTED TO A RAINWATER TANK SYSTEM CONTAINING STORAGE FOR RE-USE AND THE OVERFLOW IS DIRECTED TO AN ON SITE DETENTION SYSTEM ALONG WITH THE UPPER LEVEL SURFACE RUN-OFF. THE CONTROLLED DISCHARGE IS DIRECTED TO A LEVEL SPREADER LOCATED IN THE REAR YARD. THE DESIGN SOLUTION HAS BEEN PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF NORTHERN BEACHES COUNCIL'S WATER MANAGEMENT FOR DEVELOPMENT; SPECIFICALLY PART 5.5 STORMWATER DRAINAGE FROM LOW LEVEL PROPERTIES.

DRAINAGE REQUIREMENT TO NBC POLICY					
SITE AREA	=	334 m2			
SITE COVERAGE AREA	=	170 m2			
SITE COVERAGE	=	54 %			
ON-SITE DETENTION IS REQUIR	EΓ	)			
AREA ROUTED THROUGH OSD					
IMPERVIOUS AREA		170 m2			
PERVIOUS AREA	=	34 m2			
AREA BYPASSING OSD					
IMPERVIOUS AREA		0 m2 130 m2			
PERVIOUS AREA	_	130 MZ			
OSD VOLUME REQUIRED	=	13.1 m3			
RAINWATER TANK (PER BASIX)		3.00 m3			
OSD TANK VOLUME STORAGE		13.6 m3			
		3.00 m3			
TOTAL VOLUME STORAGE	=	16.6 m3			
PRE-DEVELOPED DISCHARGE (S.O.N)					
PROPOSED ST.STEEL ORIFICE Ø					
LIMITED DISCHARGE THRU OSD					
UNCONTROLLED FLOW	=	7.00 L/s			
		_			

OSD PARAMATERS DETERMINED WITH 'DRAINS'. FILE IS AVAILABLE FOR REVIEW. EMAIL REQUESTED TO: admin@alwdesign.com.au



RAINWATER TANK AS SHOWN ON PLAN

PROVIDE A RAINWATER TANK 3000L IN CAPACITY TO SUIT ALL BASIX REQUIREMENTS. TANK TO BE CONNECTED AS SPECIFIED IN BASIX REPORT.

ENSURE ALL CONNECTIONS WITHIN CHARGED SYSTEM ARE SOLVENT WELDED

ALL DOWNPIPES ARE TO BE ENTIRELY PVC. PIPES ARE TO BE SEALED UPTO U/S OF **ROOF GUTTERS** 

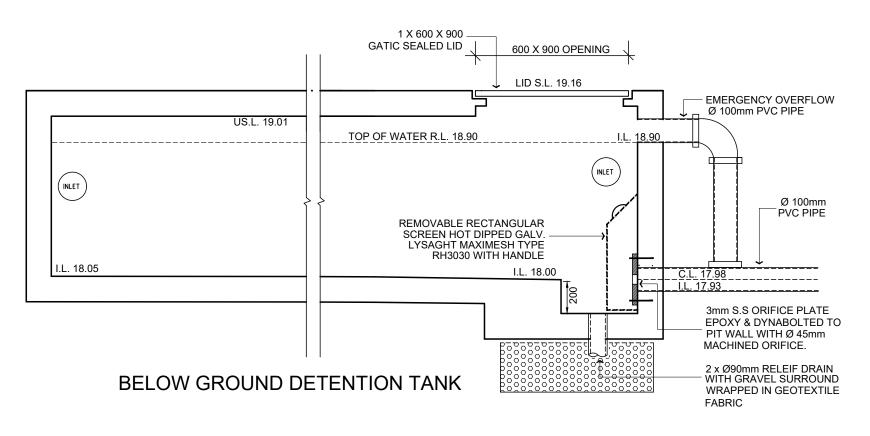
ROOF GUTTERS I.L. 22.27 TANK INLET I.L. 20.78 HEAD PRESSURE - 1490mm

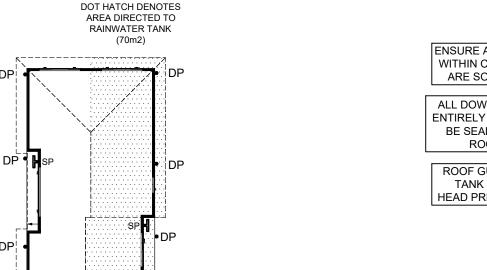


ROJECT: PROPOSED RESIDENTIAL DWELLING AT LOT 2, # 4 BALTIC STREET, FAIRLIGHT NSW RAWING: SITE STORMWATER MANAGEMENT LAYOUT

DESIGNED DRAWN CHECKED: A.W N.W ISSUED FOR DEVELOPMENT APPLICATION 30/09/25

M: 0413 763 432 69 DELANGE ROAD, PUTNEY NSW 2112





GUTTER SELECTED: LYSAGHT QUAD 115 HI FRONT NSW SLOTTED; AREA = 5225 SQ.MM

DP

DP

DP

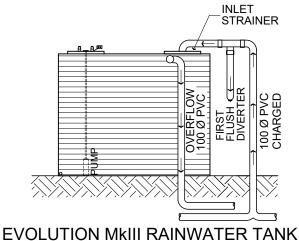
ALL DOWNPIPES TO BE 90 Ø MIN

**ROOF & FIRST FLOOR LAYOUT** SCALE 1:200/A3

ENSURE ALL CONNECTIONS WITHIN CHARGED SYSTEM ARE SOLVENT WELDED

ALL DOWNPIPES ARE TO BE ENTIRELY PVC. PIPES ARE TO BE SEALED UPTO U/S OF **ROOF GUTTERS** 

ROOF GUTTERS I.L. 22.27 TANK INLET I.L. 20.78 HEAD PRESSURE - 1490mm



**CONFIGURATION BY KINGSPAN** 

#### **DETENTION TANK**

LENGTH = 5110mm = 3000mm WIDTH = 890mm AVERAGE DEPTH **VOLUME STORED** = 13.6 m3

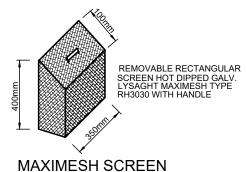


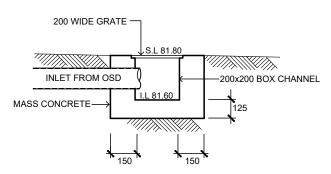
TO BE PLACED AT ALL TANK ACCESS GRATES



3mm THICK STAINLESS STEEL PLATE (OR 6mm THICK FOR DIA GREATER THAN 150mm)

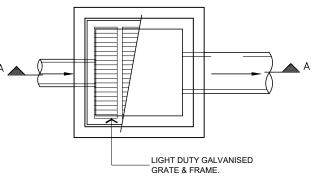
## ORIFICE PLATE DETAIL



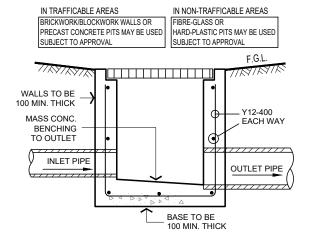


# LEVEL SPREADER

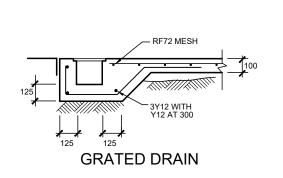
NOTE, ALL PIT SIZES SHOWN ON PLAN REFLECT THE REQUIRED GRATE DIMENSION

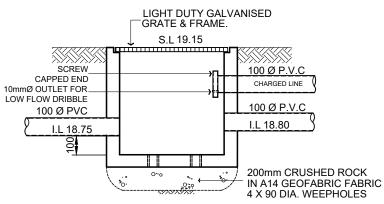


## TYPICAL PIT DETAIL



## TYPICAL SECTION A





PIT CO1 - 350x350 CLEAN-OUT PIT FOR CHARGED LINE SYSTEMS



VUMBER: 25333		PROJECT:	PROP	OSED RE	SIDENTIAL	DWELLING A	Т
	NUMBER:					T, FAIRLIGHT I	NS۱
		DRAWING:	ROOF	LAYOUT	& GENERA	L DETAILS	
	98	DESIGNED	DRAWN	CHECKED:		AND DEWL WALLDE	DE (

BE (CIVIL) MIEAUST PENC WAHBE - DE 10.

NLESS SIGNED BY DESIGNING ENGINEER

30/09/25 N.W B ISSUED FOR DEVELOPMENT APPLICATION

M: 0413 763 432 69 DELANGE ROAD, PUTNEY NSW 2112