

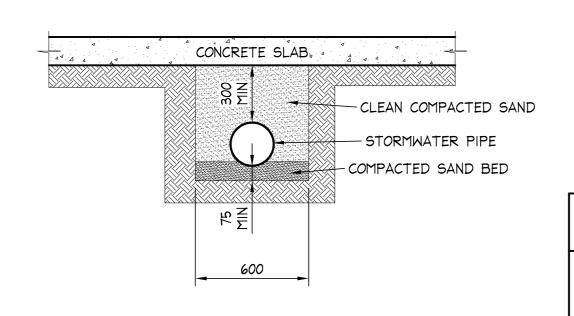
STORMWATER NOTES:

2 - ALL PIPES TO BE UPVC TO AS 1254-2002 UNLESS NOTED OTHERWISE.

- 3 ALL PIPES TO BE LAID AT 1 % MINIMUM GRADE UNLESS NOTED OTHERWISE.
- 4 ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS. (NO COMPACTION REQUIRED BELOW LANDSCAPING)

COVER TO SURFACE FROM TOP OF PIPE TO BE AS PER AS3500. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.

- 5 DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT WITH WORK.
- 6 PROVIDE CLEANING EYES AT ALL DOWNPIPES.
- 7 ALL PITS TO BE PRECAST, PREFORMED OR HDPE, IN ACCORDANCE WITH LOCAL COUNCIL SPECIFICATIONS.
- 8 ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
- 9 ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS. 10 - PRIOR TO COMMENCING ANY SITE WORKS THE CONTRACTOR SHALL
- IMPLEMENT EROSION CONTROL MEASURES TO EPA GUIDELINES AND COUNCIL SPECIFICATIONS. ALL MEASURES TO REMAIN IN PLACE UNTIL COMPLETION AND STABILIZATION OF THE SITE TO COUNCIL SATISFACTION.
- 11 ALL LEVELS SHOWN ARE TO AHD 12 - ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR
- FROM TREE ROOT SYSTEMS. 13 - ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO UPVC.
- 14 ALL WORKS TO BE IN ACCORDANCE WITH AS 3500-2015 NATIONAL PLUMBING DRAINAGE CODE PART 3 - STORMWATER DRAINAGE. AND ALL WORKS TO BE IN ACCORDANCE WITH AS 3500-2012 NATIONAL PLUMBING DRAINAGE CODE PART 5 - HOUSING INSTALLATIONS.



TYPICAL TRENCHING DETAIL SCALE = 1 : 20

ONSITE DETENTION CALCULATIONS - NORTHERN BEACHES COUNCIL ACCORDING TO "WATER MANAGEMENT FOR DEVELOPMENT POLICY"

REFER 9.3 - REGIONAL REQUIREMENTS - REGION 1 NORTHERN CATCHMENTS APPLICABLE

 $= 699.2 \text{ m}^2$ TOTAL SITE AREA PROPOSED IMPERVIOUS AREA $= 523.9 \text{ m}^2 (75 \%)$

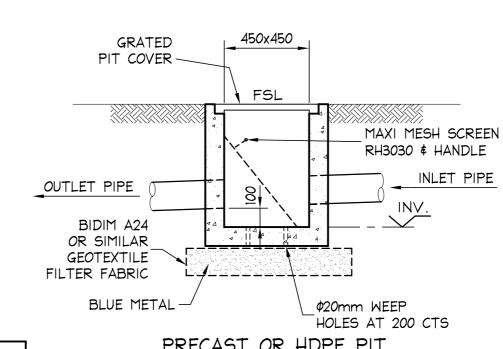
 $= 523.9 \text{ m}^2 (75 \%)$ PRE DEVELOPED IMPERVIOUS AREA

INCREASE IN IMPERVIOUS AREA

FIRST FLOOR ADDITION ONLY SUBJECT LAND DOES HAVE ACCESS TO PUBLIC DRAINAGE SYSTEM - STREET. AS THE PROPOSED WORKS ARE AN ALTERATION AND ADDITION \$ THE SITE FALLS TO THE STREET, OSD IS NOT REQUIRED.

 $= 0 m^2$

THE DESIGN OF THE STORMWATER MANAGEMENT SYSTEM COMPLIES WITH 9.3.1 \$ 5. OF 'WATER MANAGEMENT FOR DEVELOPMENT POLICY,' REFER SIGNATURE BELOW.



PRECAST OR HDPE PIT REFER STORMWATER NOTES 450x450 PIT DETAIL SCALE = 1 : 20

	No	rthern l	Beaches	[Pittwate	er] Counci	
	Gı	ıtter Ca	lculatio	ns -20 yr	ARI Storm	
		Alte	erations	& Additi	ons	
		97 Flo	orida Ro	ad Palm I	Beach	
to AS 3500 -	2015 & AS 3	3500.5 20	12 & BCA	2016		
Eaves	Horizontal	Slope	Area A _c		From	Downpipe
	Area A _h	Factor			Figure	From
Gutters		from		²⁰ / ₅	5.6.4.1.b	Table
				from		
		Table		Appendix		5.6.4.7.1
				11	gutter	
		5.6.3.2		Page 9	size reqd	size reqd
	m ²		m ²	mm/hr	mm ²	mm
EXDP1	24.2	1.1	26.6	201		satisfactory
EXDP2	24.2	1.1	26.6	201		satisfactory
EXDP3	17	1.2	20.4	201		satisfactory
EXDP4	nil	1.2	0.0	201		satisfactory
EXDP5	17	1.2	20.4	201		satisfactory
EXDP6	40.6	1.2	48.7	201	8000	100x75 or 100 dia
DP7	N/A					
DP8	N/A					
EXDP9	37.1	1.2	44.5	201	8000	100x75 or 100 dia
EXDP10	16.2	1.2	19.4	201		satisfactory
DP11	13.9	1.2	16.7	201	6000	100x50 or 90 dia
EXDP12	13.9	1.2	16.7	201		satisfactory
	204.1					
New Eaves	Gutters req	uired -				
Quad Gutter - Area					6000	mm ²
Gutter on N	orth East fa	ce to be r	nin. 8000	mm2 in are	ea	

GUTTER CALCULATIONS

NOTES:

- 1. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WITH WORK
- 2. FOR GENERAL NOTES AND DRAWING SCHEDULE REFER TO DRAWING NUMBER: SOI.

CHARTERED DOCUMENT CERTIFICATION

Date: NOV 2021 Bruce Lewis (Principal: Peninsula Consulting Engineers)

BE(Civil), CPEng, MIEAust., NPER. Institute of Engineers Membership No. 879131

Date:	Rev:	Amendment:
24-09-2021	Pl	DRAFT
8-11-2021	Α	FOR COUNCIL SUBMISSION
29-11-2021	В	CHANGE GUTTER SIZE

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CONCEPT STORMWATER MANAGEMENT PLAN & DETAILS

Drawing No: 21-0802