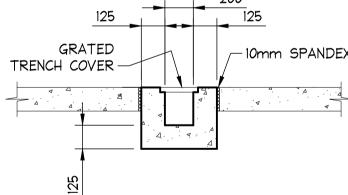


STORMWATER NOTES:

- 1 ALL PIPES TO BE 100mm ϕ SEWER GRADE uPVC UNLESS NOTED OTHERWISE.
- 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.

A1

- 7 ALL PITS TO BE PRECAST, PREFORMED OR HDPE, IN ACCORDANCE WITH LOCAL COUNCIL SPECIFICATIONS.
- 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.
- 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.



COUNCIL'S "WATER MANAGEMENT FOR DEVELOPMENT POLICY, 26	-02-2
USED	
SECTION 5.5 - FOR REGION 1 - NORTHERN CATCHMENTS	
TOTAL SITE AREA	902.7
DESIGN METHOD USED	N/A
PRE DEVELOPMENT IMPERVIOUS AREA	328.8
POST DEVELOPMENT IMPERVIOUS AREA (LESS POOL OVERFLOW	
TO SEWER)	352.8
ADDITIONAL IMPERVIOUS AREA	24.0
9.3.1 - LESS THAN 50 SQ METRES ADDITIONAL	
OSD NOT REQUIRED - RUN DRAINAGE TO ABSORPTION TRENCH	

_		DOCUMENT CERTIFICATIO				
<u>N</u>	OTES: MEMBE			11-11-2024	С	MODIFY RESIDENCE OUTL
1.	ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE	Date: NOV. 2024		24-10-2022	В	CHANGE OUTLET
	COMMENCING WITH WORK.	Bruce Lewis		28-04-2022	А	FOR COUNCIL SUBMISSION
2.		(Principal : Peninsula Consulting Engineers)	… [20-04-2022	P1	DRAFT
	TO DRAWING NUMBER: SO1.	BE(Civil), CPEng, MIEAust., NPER. Institute of Engineers Membership No. 879131		Date:	Rev:	Amendment:

Frenchs Forest, NSW, 2086

Ph: 0424 253 818 Fax: (02) 9982 4722 E : bruce@peninsulaconsulting.com.au A.B.N. 60 493 390 399

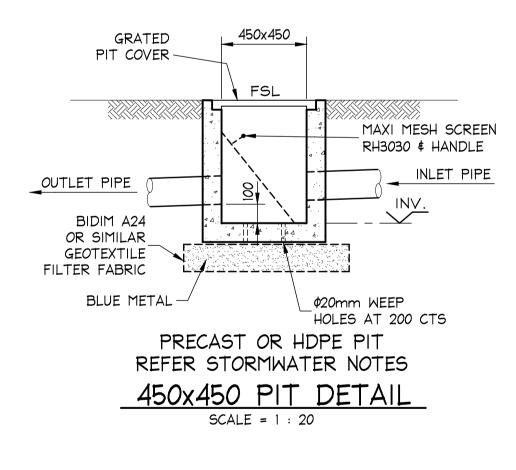
CLAREVI for: MR \$ MRS

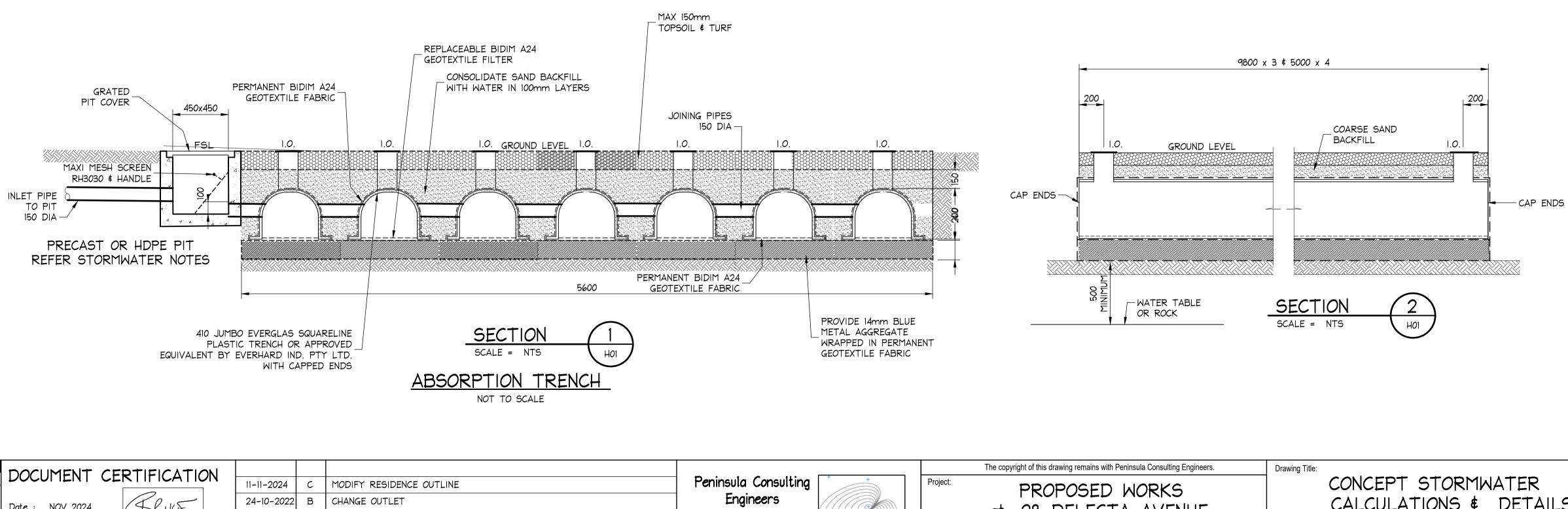
Ν	Vorther	n Beache	es Council							
utter Calculations -20 & 100 yr ARI Storm										
	Alterat	ions & Ac	ditions							
28			e Clareville	2						
<u>ح</u> ۸S 3500.5				-						
Slope	Area A_c	VCCZUZZ	From	Downpipe	Flow in					
	Alea A _c									
Factor		20	Figure	From	Box Gutters					
from		²⁰ 1 ₅	5.6.4.1.b	Table	in					
		from			¹⁰⁰ I 5					
Table		Appendix		5.6.4.7.1						
		12	gutter							
5.6.3.2		Page 79	size reqd	size reqd	L/sec					
	m ²	mm/hr	mm ²	mm						
1.2	44.4	201	8500	100 dia or 100x75						
1.2	34.6	201	7000	100 dia or 100x75						
1.2	26.9	201	5500	90 dia or 100x50						
2.2	36.1	201	7500	90 dia or 100x50						
1.2	19.7	201	5000	90 dia or 100x50						
1.2	15.5	201	4000	90 dia or 100x50						
1.2	15.5	201	4000	90 dia or 100x50						
1.1	17.1	201	4500	90 dia or 100x50						
N/A	N/A	271	N/A	90 dia or 100x50	2.7					
1.2	19.2	201	4500	90 dia or 100x50						
1.2	15.6	201	4000	90 dia or 100x50						
1.2	15.6	201	4000	90 dia or 100x50						
1.2	19.3	201	4500	90 dia or 100x50						
1.2	19.3	201	4500	90 dia or 100x50						
aght Half F	Round on	Lower Floc	or & Garage							
		9400	mm ²							
to be con	tinued or	Upper Flo	or							
to be 100	Dia Sewe	r Grade PV	CUNO							

WORKS A AVENUE,	Drawing Title: CONCEPT STORMWATER MANAGEMENT PLAN & DETAILS						
LLE BELGIOVANE	Job No: 22-0403	Drawing No:	Rev:				

								• -							· _				
Northern Beaches Council 28 Delecta Avenue Clareville				Northern Beaches Council 28 Delecta Avenue Clareville					Northern Beaches Council 28 Delecta Avenue Clareville										
																Alter	rations &	& Additions	
On Site	Drainag	e Calculations			On Site Drainage Calculations					On Site Drainage Calculations									
Area Calculation - Existing	m ²			DRAINS Results					DRAINS Data										
Block		Area Calculation -Proposed	m ²	SUB-CATO			PIT / NO	DF DFTA	All S	Version 13	2414								
Main Roof	242.2	Main Roof	273.3	Name	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm	-							
External Driveway	7.8	External Driveway	21.9		Flow Q	Max Q	Max Q	Тс	Тс	Тс		Hume	.,pc	Elev (m)					
Timber Paths -50% Impervious	20.2	· ·			(cu.m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(min)									
Timber Pool Surround - 50% Impervious	31.6	Timber Pool Surround - 50% Impervious	30.4								AR&R 50 year, 1.5	N1	Node	2.1					
Timber Decks -50% Imp	27	Timber Decks -50% Imp	27.2								hours storm,								
All Impervious	328.8	All Impervious	352.8								average 66.0	DETENT	ITION BASIN DETAIL						
Pervious	573.9	Pervious	549.9	Cat1	0.056	0.024	0.032	5	5	5	mm/h, Zone 1	Name			Outlet Type				
Percent Impervious Existing	36.4	Percent Impervious Proposed	39.1									Basin1		35.8	None				
Impervious Area Increase	24.0			OVERFLO	W ROUTE [DETAILS							2.1	35.8					
Under Northern Beaches Council Conditions	5,			Name	Max Q U/	SMax Q D/S													
"Water Management for Development Poli	cy" revised	1 26/2/2021		OF1	0	0						SUB-CAT	TCHMEN	T DETAILS					
9.3.1 Onsite Stormwater Disposal Requirem	ents for R	egion 1 Northern Catchments										Name		Total	Paved	Grass	Supp	Paved	Grass
All development creating additional hard [in	npervious] area of more than 50m ²		DETENTIO	ON BASIN D	ETAILS							Node	Area	Area	Area	Area	Time	Time
must provide an onsite detention system [fo	or addition	ns only]		Name	Max WL									(ha)	%	%	%	(min)	(min)
Not Applicable - extensions will increase h	ard surfac	e area by only 24.0m ²		Basin1	2.02	29.5						Cat1	Basin1		41	59	0	5	5
But Low Level Property										/1 ->									
And assuming an absorption rate of 0.25L/n	n²/sec, or	0.00025m/sec) year, 1.5 hours s		e 66.0 mm	n/h, Zon	e 1	OVERFLO	OW ROU	TE DETAILS	5				
Absorption Trench to be provided as shown				Node			Storage Change	%				Name	From	То	Travel	Spill	Crest		
				Basin1	(cu.m) 74.37	(cu.m) 74.33	(cu.m) 0	0.1							Time	Level	Length		
				N1	Λ 4 .37	0	0	0.1							(min)	(m)	(m)		
				111			•	0				OF1	Basin1	N1	0.1	2.1	2		
DRAINA	GE CAL	CULATIONS																	

<u>DRAINAGE CALCULATIONS</u>





Al				
	DOCUMENT CERTIFICATION	11-11-2024	0	MODIFY RESIDENCE OUTLINE
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COMMENCING WITH WORK.	Bruce Lewis	28-04-2022	А	FOR COUNCIL SUBMISSION
2. FOR GENERAL NOTES AND DRAWING SCHEDULE REFER	(Principal : Peninsula Consulting Engineers)	20-04-2022	Pl	DRAFT
TO DRAWING NUMBER: SO1.	BE(Civil), CPEng, MIEAust., NPER. Institute of Engineers Membership No. 879131	Date:	Rev:	Amendment:

DRAINS RESULTS

dment:

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at: 28 DELECTA AVENUE, CLAREVILLE for: MR & MRS BELGIOVANE

DRAINS DATA

