78 Hudson Parade, Clareville Concept Stormwater Drainage

LEGEND:

>	Stormwater pipe
>>	Charged stormwater Pipe
>>	Sub Soil / Agricultural Pipe
>	Pumped Line
e e	Existing Pipe
exex	Disused / Redundant Pipe
<u> </u>	Sediment Fence
<u> </u>	Site Fence
C C	Conduit by others
———— E ———— E ————	Electrical Wiring by others
SW	Existing Authority Stormwater Main
S	Existing Authority Sewer Main
W	Existing Authority Water Main
GAS	Existing Authority Gas Main
———— E ————	Existing Authority Electrical Cabling
T	Existing Telstra Cabling
	Stormwater pit (Grated / Solid Cover)
Φ	Drainage Outlet
DP	Downpipe / Riser
\longrightarrow	Dropper
	Direction of flow
`	Pipe continuation
+1	Pipe continuation not shown
	Spreader
< <u>FALL</u>	Surface Fall
OLF	Overland Flow

8		Rev	Date	Amendment Description	Ву	Арр.	Rev	Date	Amendment Description	Ву	Арр.		
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ABBREVIATIONS:

AP	Aerial Pipe
BG	Box Gutter
BO	Balcony Outlet
CO	Clearout
СР	Charged Pipe
DP	Downpipe
EG	Eave Gutter
Galv.	Galvanised
HD	Heavy Duty
HP	High Point
IL	Invert Level
10	Inspection Oper
L	Litres

- Dpening
- L/s Litres Per Second
- LD Light Duty
- Meters
- m² Square Meters m³ Cubic Meters
- O/F Overflow
- OLF Overland Flow
- OSD On Site Detention PDO Planter Drain Outlet
- SP Subterranean Pipe
- RWH Rainwater Head RHS Rectangular Hollow Section
- Reduced Level
- RW Rainwater
- RWO Rainwater Outlet
- SS Subsoil
- SW Stormwater PVC Poly Vinyl Chloride

- **GENERAL NOTES:**
- 1. All work is to be performed in accordance with AS3500.3 and council codes 16. Location of Stormwater Systems, including downpipes, pipes, pits and where applicable.
- 2. The Plumber/ Drainer shall inspect the site and confirm the existing site structures, services and conditions prior to proceeding. If any discrepancies 17. Sub-soil drains for retaining wall shall be installed by the builder and found, contact the engineer for further instructions.
- 3. All pipes shall be sewer grade P.V.C. laid at min. 1:100, unless noted otherwise.
- 4. All connections to P.V.C. pipes are to be solvent welded to manufacturers specification
- 5. All prefabricated pits, drains etc. are to be of heavy duty concrete construction 24 hour notice for the engineer to carry out the inspection. unless noted other.
- 6. Precise location of down pipes shall be nominated by others. Locations shown the plumber/drainers own expense. are for hydraulic design purposes only.
- 7. Precise location of pits shall be nominated by others. Locations shown are for Architects drawings. hydraulic design purposes only.
- 8. All eaves gutters shall be of minimum cross sectional area of 8500mm² unless noted otherwise.
- 9. This design covers the collection and disposal of rainwater from ROOF drawings are not included, unless shown.
- 10. This design does not cover sub surface hydraulic flows.
- 11. The installer is encouraged to use the 'Dial Before You Dig' service prior to 26. All finished ground surfaces should fall away from structures excavation. No underground services have been noted or surveyed in this design. Dig at your own risk.
- 12. IF IN DOUBT ASK. Consult the design engineer for any changes, omissions and discrepancies.
- 13. System design has been produced to reflect reduced levels shown on architect supplied drawings.
- 14. Pipe cover for uPVC pipes:
- a. Single dwellings, no vehicular loading- 100mm b. Single dwellings, vehicular loading on concrete- 450mm
- c. Single dwellings, vehicular loading, un-reinforced concrete-100mm below underside of concrete

- 15. Silt arrestor pit and rain guards must be regularly inspected and cleaned.
- rainwater tank are indicative only. Exact locations shall be determined on site to suit site conditions.
- connected to Stormwater lines. All Agg Lines shall be 100mm DIA, unless noted otherwise.
- 18. Levels are approximate only. The plumber/drainer shall confirm the levels prior to proceeding. If any discrepancies found, contact the engineer for further instructions.
- 19. Inspection and certification, if required, shall be done prior to backfilling, allow
- 20. Any damage to services during construction shall be repaired immediately at
- 21. Areas & Geometry calculated are approximate and dependent on Surveyors &
- 22. It is essential that areas calculated are within plus/minus 5% range.
- 23. Provide adequate access and overland flow routes out of property and not into adjoining properties
- AREAS ONLY. Any paved areas not noted on the supplied architectural 24. Provide minimum 75mm clearance under all gates and operable external doors as to not impede overland flow
 - 25. Water entry and backflow into buildings should be prevented at all times

 - 27. Charged lines are to be flushed regularly and flush/arrestor pits are to be regularly inspected and cleaned
 - 28. All pipes entering a water tank shall have a first flush device installed
 - 29. All water tanks will be insect proofed by other
 - 30. If tanked water is being reused for drinking or sanitary purposes, appropriate disinfecting by others should be considered.
 - 31. Schedule of calculations is based on plan areas

Pam & Danny Nemeny

32. Plumber to provide 'leaf guard' or similar over all gutter, rainheads & sumps



LOCALITY PLAN

Marker Architecture & Design Studio

Not to scale

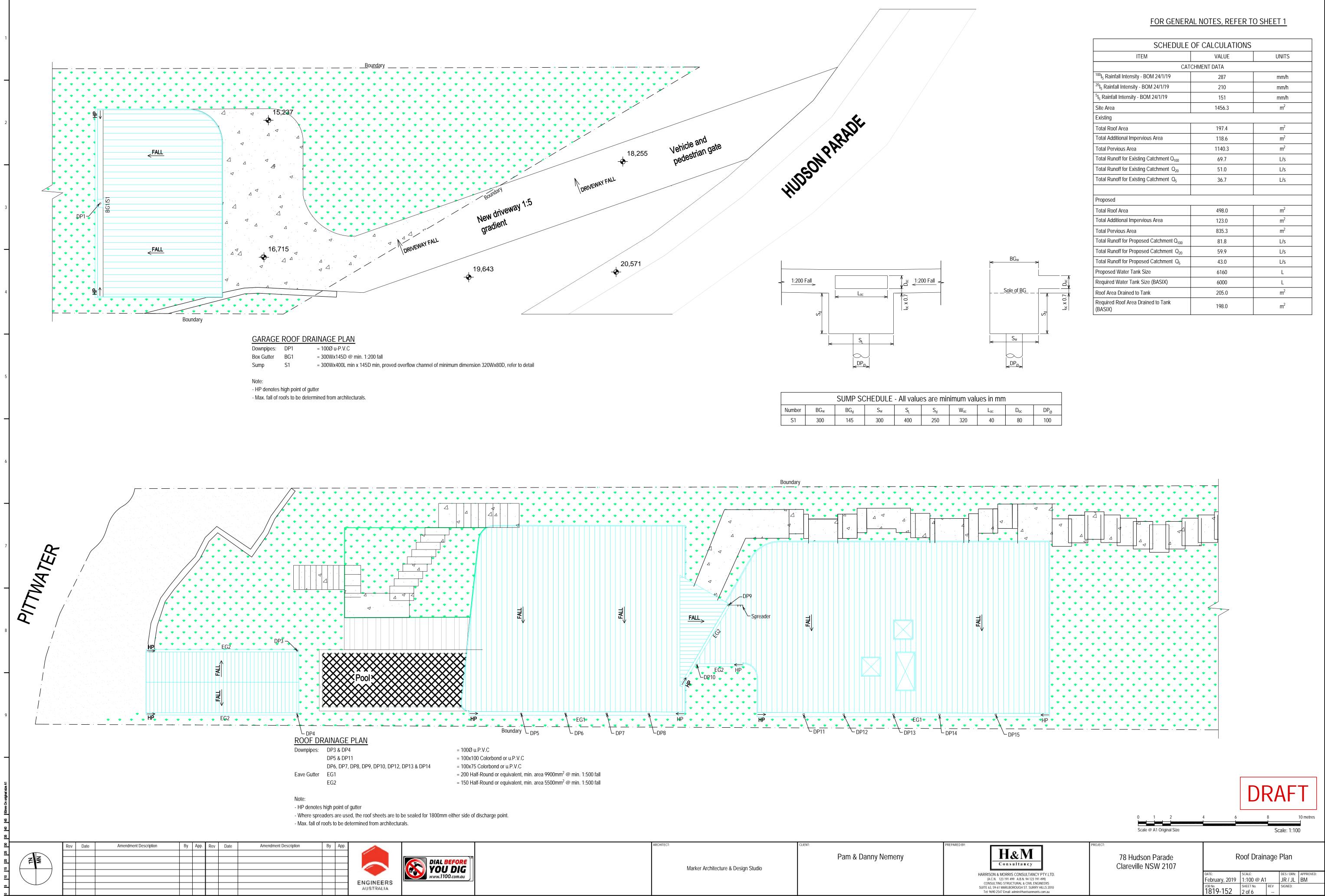
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H&M Consultancy HARRISON & MORRIS CONSULTANCY PTY.LTD. (A.C.N. 123 191 499 A.B.N. 94 123 191 499) CONSULTING STRUCTURAL & CIVIL ENGINEERS SUITE 63, 59-61 MARLBOROUGH ST. SURRY HILLS 2010 Tel: 9690 2547 Email: admin@harrisonmorris.com.au

78 Hudson Parade Clareville NSW 2107

Project Information Sheet

DATE:	SCALE:		DES / DRN:	APPROVED:
February, 2019	Not to scale	9	JR/JL	BM
JOB No.	SHEET No.	REV	SIGNED:	
1819-152	1 of 6			

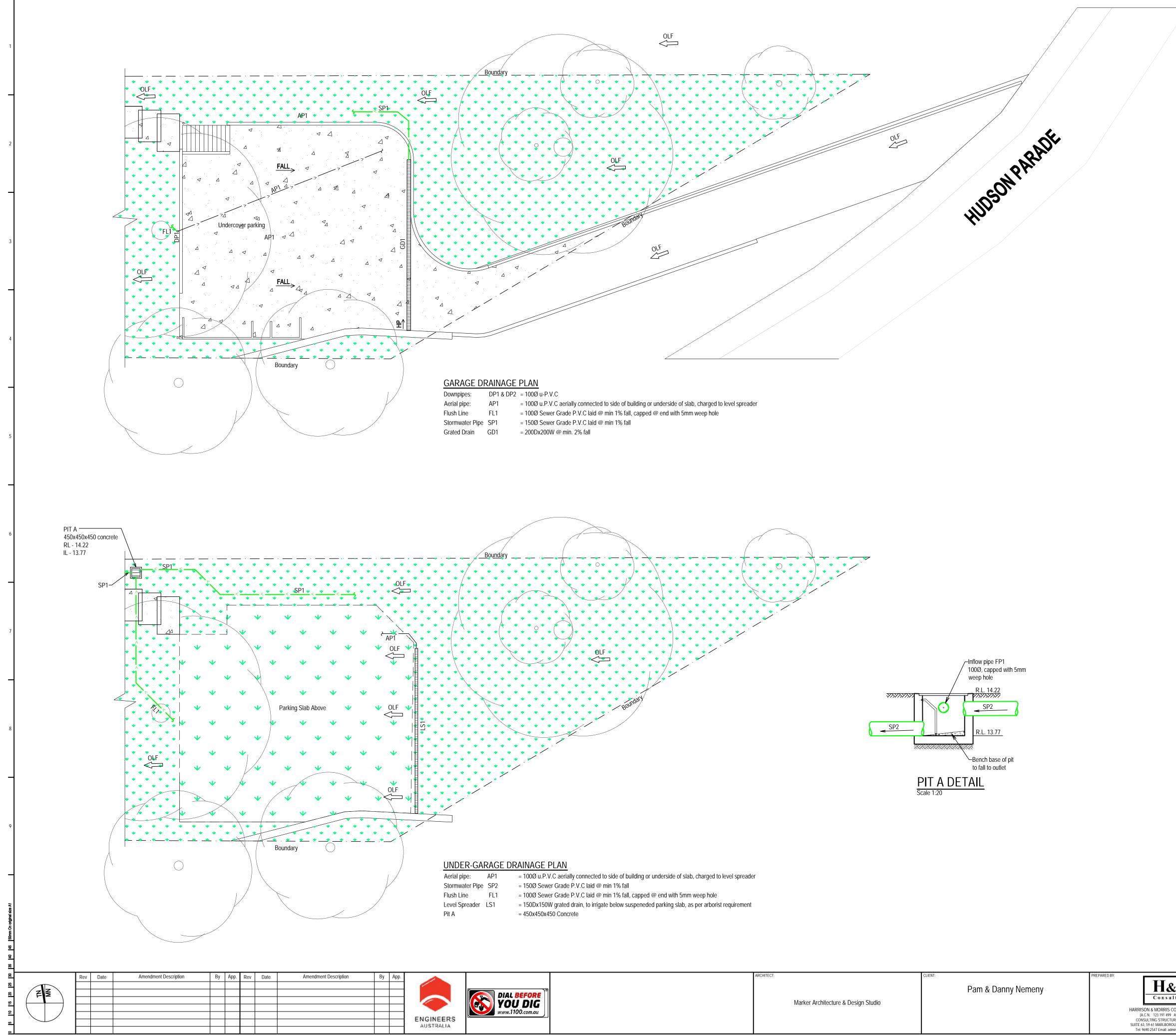


SUMP SCHEDULE - All values are minimum values in mm								
Number	BGw	BG _d	Sw	SL	S _d	W _{oc}	L _{oc}	0
S1	300	145	300	400	250	320	40	

ARCHITECT:	CLIENT: Pam & Danny Nemeny	PREPARED BY:
Marker Architecture & Design Studio		Consultant HARRISON & MORRIS CONSUL
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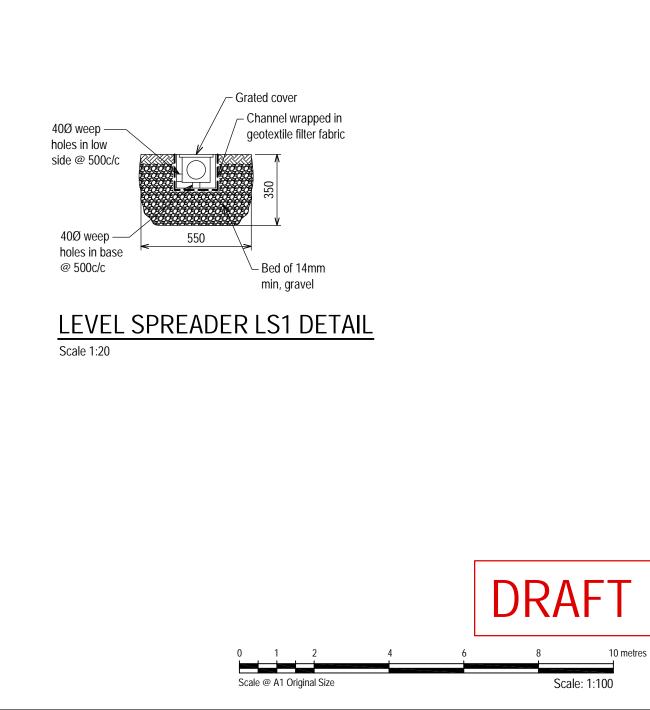
SCHEDULE	OF CALCULATIONS	
ITEM	VALUE	UNITS
CA	ICHMENT DATA	
¹⁰⁰ I ₅ Rainfall Intensity - BOM 24/1/19	287	mm/h
²⁰ I ₅ Rainfall Intensity - BOM 24/1/19	210	mm/h
⁵ I ₅ Rainfall Intensity - BOM 24/1/19	151	mm/h
Site Area	1456.3	m ²
Existing		
Total Roof Area	197.4	m ²
Total Additional Impervious Area	118.6	m ²
Total Pervious Area	1140.3	m ²
Total Runoff for Existing Catchment Q ₁₀₀	69.7	L/s
Total Runoff for Existing Catchment Q_{20}	51.0	L/s
Total Runoff for Existing Catchment Q_5	36.7	L/s
Proposed		
Total Roof Area	498.0	m ²
Total Additional Impervious Area	123.0	m ²
Total Pervious Area	835.3	m ²
Total Runoff for Proposed Catchment Q_{100}	81.8	L/s
Total Runoff for Proposed Catchment Q_{20}	59.9	L/s
Total Runoff for Proposed Catchment Q_5	43.0	L/s
Proposed Water Tank Size	6160	L
Required Water Tank Size (BASIX)	6000	L
Roof Area Drained to Tank	205.0	m ²
Required Roof Area Drained to Tank (BASIX)	198.0	m ²

DATE:	SCALE:		DES / DRN:	APPROVED:
February, 2019	1:100 @ A1		JR/JL	BM
JOB No.	SHEET No.	REV	SIGNED:	
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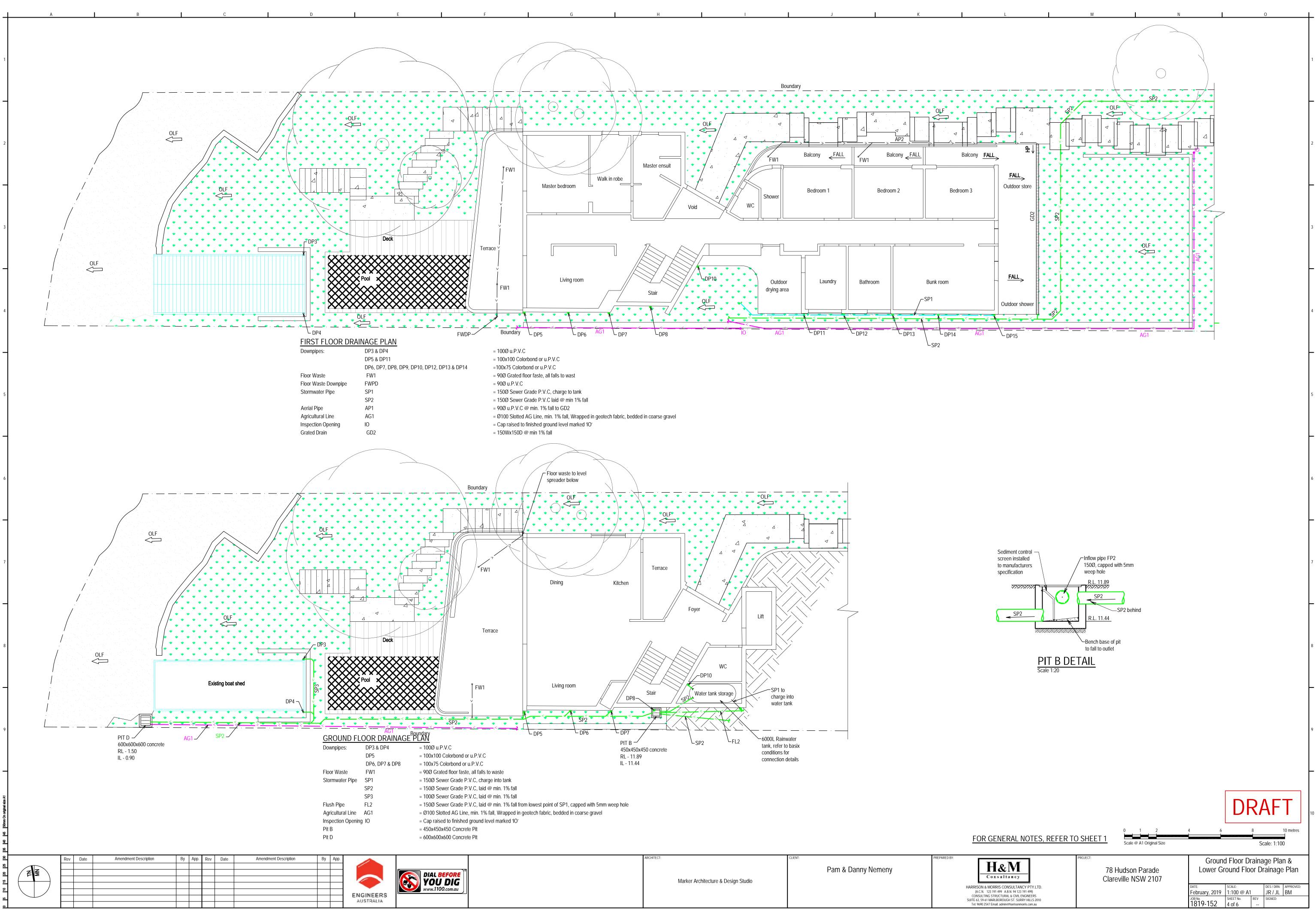


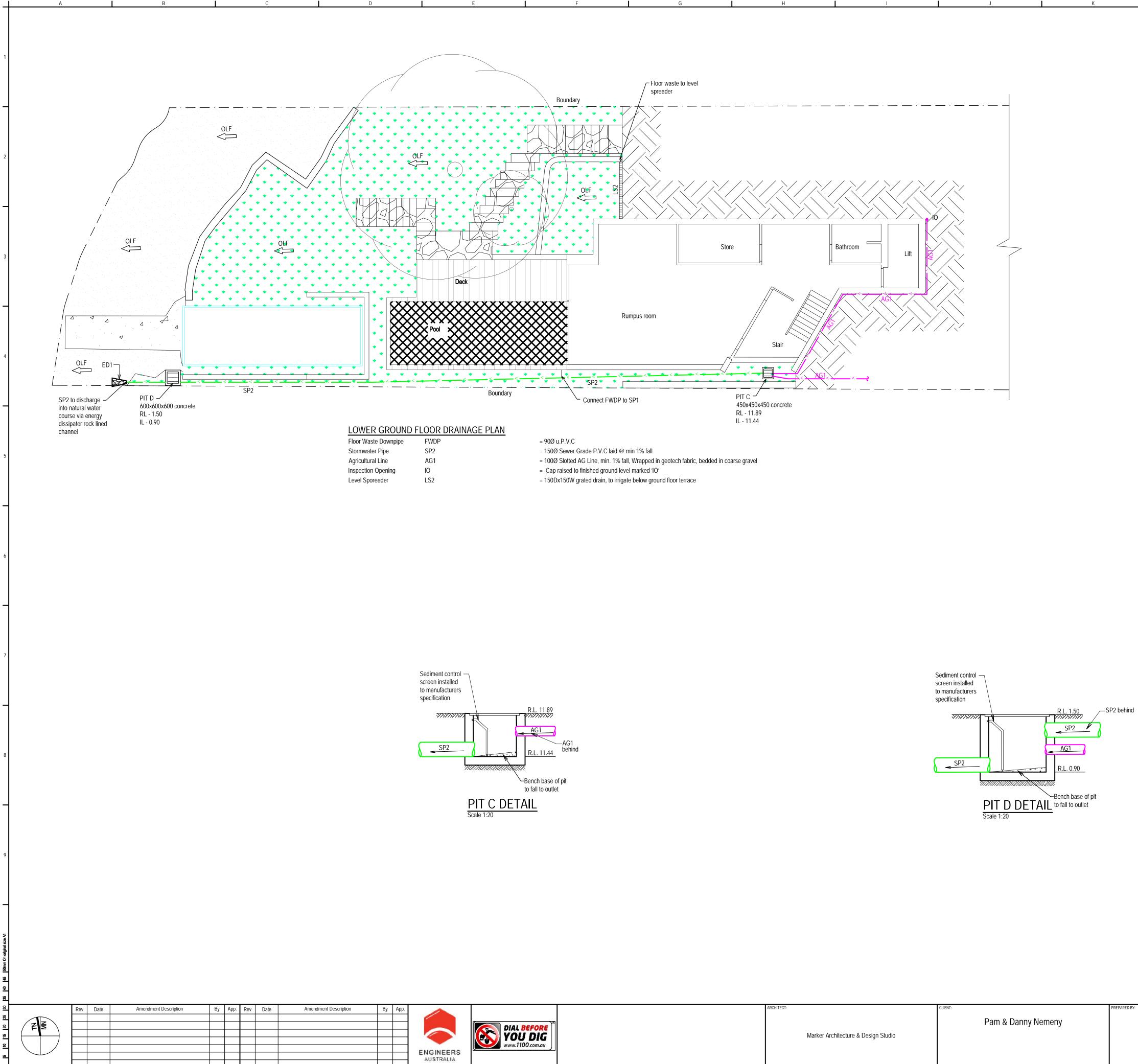
ARCHITECT: Marker Architecture & Design Studio	CLIENT: Pam & Danny Nemeny	PREPARED BY: HARRISON & MORRIS CONSULTANCY PTY.LTD. (A.C.N. 123 191 499 AB.N. 94 123 191 499) CONSULTING STRUCTURAL & CIVIL ENGINEERS SUITE 63, 59-61 MARLBOROUGH ST. SURRY HILLS 2010 Tel: 9690 2547 Email: admin@harrisonmorris.com.au

FOR GENERAL NOTES, REFER TO SHEET 1

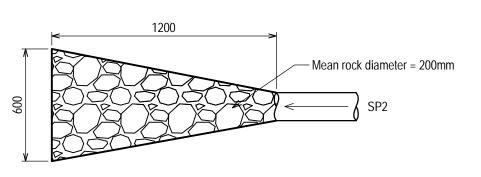


	78 Hudson Parade Clareville NSW 2107	First	Floor Dra	ainaç	ge Plan	l
LTD.		DATE:	SCALE:		DES / DRN:	APPROVED:
		February, 2019	1:100 @ A1		JR/JL	BM
2010		JOB No.	SHEET No.	REV	SIGNED:	
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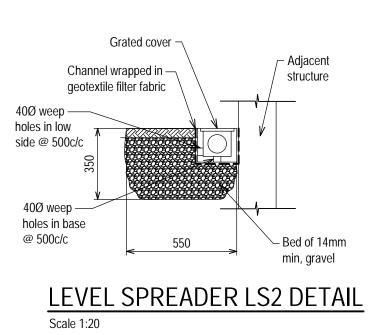




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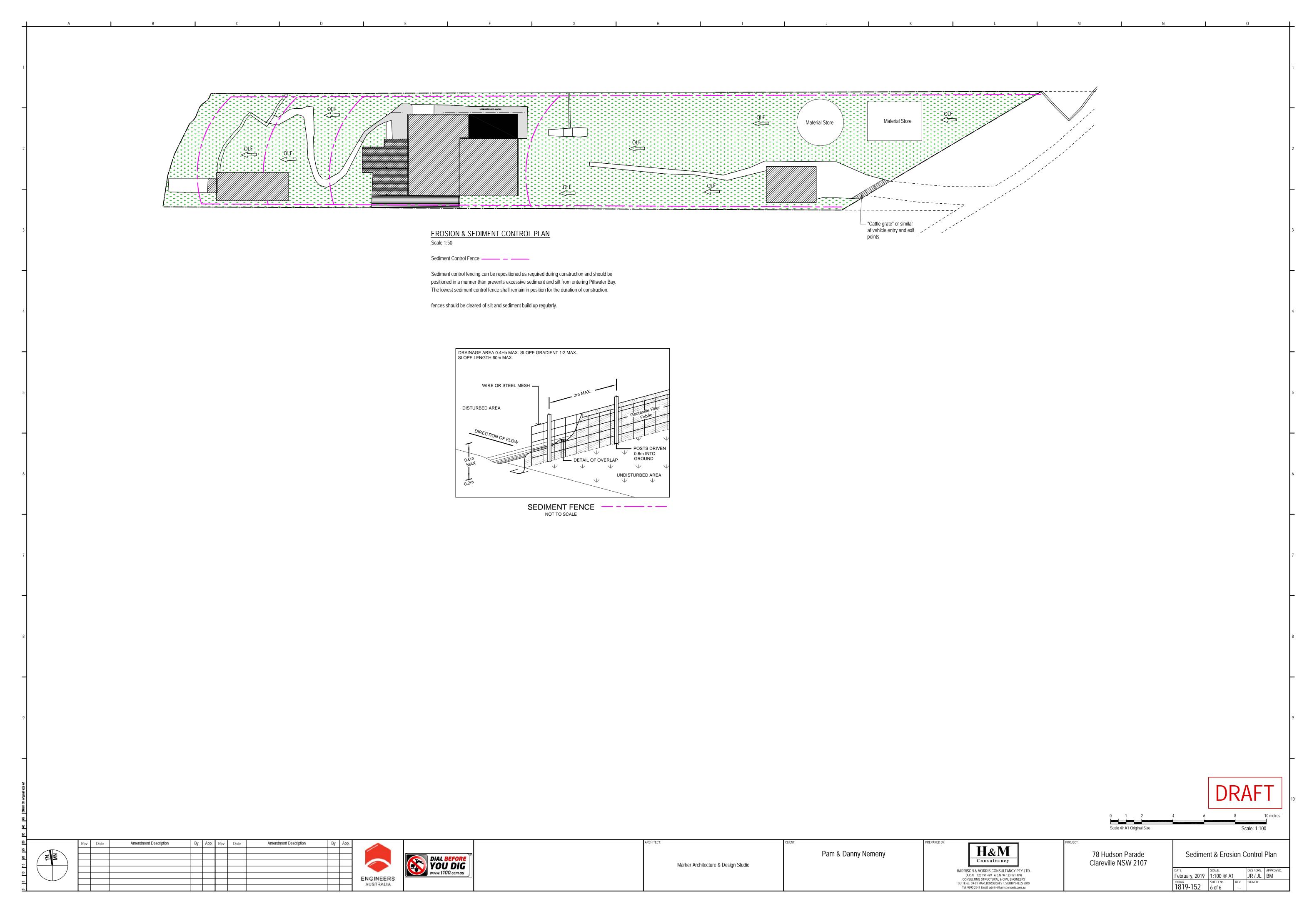
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78 Hudson Parade Clareville NSW 2107	Ground Floor Drainage Plan & Lower Ground Floor Drainage Plan					
	DATE:	SCALE:		DES / DRN:	APPROVED:	
	February, 2019	1:100 @ A1		JR / JL	BM	
	JOB No.	SHEET No.	REV	SIGNED:		
	1819-152	5 of 6				

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Scale @ A1 Original Size

10 metres



ARCHITECT: Marker Architecture & Design Studio	CLIENT: Pam & Danny Nemeny	(A. CONS	Consultance Consultance ON & MORRIS CONSUL C.N. 123 191 499 ABN. 94 SULTING STRUCTURAL & CI SULTING STRUCTURAL & CI
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