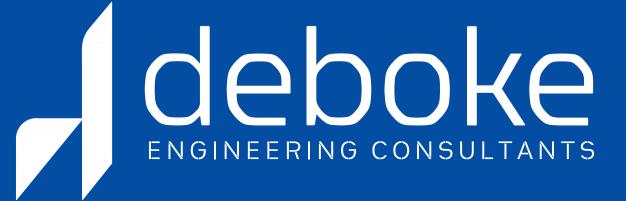


PROPOSED STORMWATER DRAINAGE PLANS

Proposed House Development Development 12 Lloud George Avenue Winston Hills 2153

20220560-DA-SW-DWG-02

Client Mr & Mrs Maroun Architect ARCM Design



Drawing Register					
Number	Name	Revision			
S100	Cover Sheet	02			
S101	Specifications Sheet	02			
S200	Basement Plan	02			
S201	Ground Floor Plan	02			
S202	First Floor Plan	02			
S203	Roof Plan	02			
\$300	Details Sheet	02			
S400	Erosion and Sediment Control Plan	02			

DBYD DECLARATION



DIAL BEFORE YOU DIG SHOULD BE CONTACTED PRIOR TO ANY EXCAVATION ON SITE

TM: TRADE MARK OF THE ASSOCIATION OF DIAL BEFORE YOU DIG SERVICES LTD. USED UNDER LICENSE.

SERVICES NOTE

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

ABBREVIATIONS

O or DIA DIAMETER CLEAR OUT DDO DP **DISH DRAIN OUTLET** DOWNPIPE EXISTING FFL FINISHED FLOOR LEVEL GTD GRATED TRENCH DRAIN GSIP GRATED SURFACE INLET PIT **INVERT LEVEL** KIP KERB INLET PIT NGL NATURAL GROUND LEVEL OFP OVERLAND FLOWPATH OSD ON-SITE DETENTION RCP REINFORCED CONCRETE PIPE RLREDUCED LEVEL RWT RAINWATER TANK SW STORMWATER SWP STORMWATER PIT STORMWATER RISING MAIN **SWRM** SWS STORMWATER SUMP TOK TOW TOP OF KERB

TOP OF WALL

UNPLASTICISED

POLYVINYL CHLORIDE

uPVC

Project No.

1. All work shall be carried out in accordance with council's requirements, building code of Australia, NSW code of practice and the to the relevant service codes.

General Notes

- 2. These drawings shall be read in conjunction with all architectural and other consultants' drawings and specifications and with such other written instructions as may be issued during the course of the contract. All discrepancies shall be referred to the superintendent for decision before proceeding with the work.
- 3. All dimensions shown on the drawings are in millimeters (u.n.o.). Dimensions shall not be obtained by scaling of these drawings. Use figured dimensions only.
- 4. Benchmarks have been established where indicated on the drawings. All levels are to Australian height datum A.H.D.). The contractor shall undertake all necessary survey work to ensure that the works are constructed to design line and level.
- 5. Setting out dimensions and levels shown on the drawings shall be verified by the
- 6. All materials shall be in accordance with the requirements of the relevant codes and the by-laws and ordinances of the relevant building authorities.
- 7. It is the contractor's responsibility to provide all safety fences, warning signs, traffic diversions and the like during construction. All works to comply with work health and safety requirements and other relevant authority safety requirements.
- 8. No trees shall be removed, cutback or relocated without the written instruction from the
- 9. Where new works abut existing the contractor shall ensure that a smooth even profile, free from abrupt changes is obtained.
- 10. All works shall be carried out in accordance with the details shown on the drawings and
- 11. Design levels given are to finished surface level and inclusive of topsoil. (topsoil depth
- varies) 12. The contractor shall arrange all survey set out to be carried out by a registered surveyor.
- 13. Care is to be taken when excavating near existing services. No mechanical excavations are to be undertaken over telecommunications or electrical services. Hand excavate in these areas. 14. The locations of underground services shown on the drawing have been plotted from
- diagrams provided by service authorities. This information has been prepared solely for the authorities own use and may not necessarily be updated or accurate.
- 15. The position of services as recorded by the authority at the time of installation may not reflect changes in the physical environment after installation.
- 16. Deboke Engineering Consultants do not guarantee that the services information shown on the drawing shows more than the presence or absence of services, and will accept no liability for inaccuracies in the services information shown from any cause whatsoever.
- 17. It is the contractor's responsibility to obtain from the utility services authorities a current copy of underground services search for the location of all existing services prior to commencement of any work and notify any conflict with the drawings immediately. Clearance shall be obtained from the relevant regulatory authority. Contractor to keep copy of underground services search on site at all times. Any damages to services or services adjustments shall be carried out by the contractor or relevant authority at the contractor's expense.
- 18. Visit the site before submitting the final tender price to assess 'on site' conditions. Failure to do so will forfeit any claim for not being aware of conditions affecting the tender.
- 19. The contractor shall prepare accurate work-as-executed drawings following the completion of all works.
- 20. It is the contractor's responsibility to have in place & maintain traffic facilities at all times
- 21. Contractor to provide workshop coordinated drawings prior to commencing works on site. Workshop drawings to be reviewed and approved by design engineer.

Erosion and Sediment Control Notes

- Before earthworks can commence the erosion & sediment control measures must be in
- 2. During the construction period, these control measures will need to be inspected & maintained regularly, especially after storm events, by the contractor.
- 3. All work is to be carried out to prevent erosion, contamination & sedimentation of the storage site, surrounding areas & drainage systems.
- 4. Minimize disturbed area covered with natural vegetation. Only those areas directly required for construction are to be disturbed.
- 5. Install erosion/sediment control measures prior to commencement of construction or excavation operations.
- 6. Provide silt fence/straw bale barriers to the low side of all exposed earth excavations. Tie sediment fencing material to cyclone wire security fence. Sediment control fabric shall be an approved material (eg. Humes propex silt stop) standing 300mm above ground & extending 150mm below ground.
- 7. Isolate existing stormwater pits with straw bales or silt traps to filter all incoming flows.
- 8. Do not stockpile excavated material on the roadway. 9. Divert clean water from undisturbed areas around the working areas.
- 10. Construction entry/exit shall be via the location noted on the drawing. Contractor shall ensure all droppable soil & sediment is removed prior to construction traffic exiting site. Contractor shall ensure all construction traffic entering and leaving the site do so in a forward
- direction. 11. Treat the stormwater runoff with suspended solids so the discharge water quality to council stormwater drainage system has a maximum concentration of suspended solids that does not exceed 50 milligrams per litre in accordance with the protection of the environment operation act (poeo 1997) and shall be approved by local council
- 12. Adopt temporary measures as may be necessary for erosion & sediment control, including
- but not limited to the following: -- Drains: temporary drains and catch drains.
- Spreader banks or other structures: to disperse concentrated runoff.
- Silt traps: construction and maintenance of silt traps to prevent discharge of scoured material
- 13. After rain, inspect, clean, and repair if required, temporary erosion & sediment control 14. Remove temporary erosion &sediment control measures when they are no longer
- 15. Comply with the requirements of Landcom's Managing Urban Stormwater Soil and
- Construction 'The Blue Book' latest edition
- 16. The erosion & sediment control plan provided is only indicative. The contractor should prepare a detailed ESCP suitable for the specific site conditions

Stormwater Notes

- 1. Contractor must verify all dimensions & existing levels, services & structures on site prior to commencement of work.
- 2. Plans to be read in conjunction with approved Architectural, Landscape, Structural, Hydraulic, & other services drawings & specifications. If any discrepancies exist between the drawings, the builder shall report the discrepancies to the engineer prior to commencement of any works.
- 3. Where subsoil drainage lines pass under floor slabs & vehicular pavements, slotted uPVC sewer grade pipe shall be used.
- 4. Charged lines to be sewer grade & sealed. 5. All pipes to have min 150mm cover if located within property.
- 6. All pits in driveways to be concrete & all pits in landscaped areas maų be plastic.
- 7. Pits less than 600mm deep may be brick, precast or concrete.
- 8. All balconies & roofs to be drained & to have safety overflows in accordance with relevant Australian standards.
- 9. All grates to have child proof locks.
- 10. All drainage works to avoid tree roots.
- 11. Council's issued footway design levels to be incorporated into the finished levels once issued by council.
- 12. All works shall be in accordance with NCC BCA 2019 &
- 13. Care to be taken around existing sewer. Structural advice required for sewer protection against additional loading from new pits, pipes, retaining walls & OSD basin water levels. 14. All ø300 drainage pipes & larger shall be class 2 approved
- spigot & socket RCP pipes with rubber ring joints (U.N.O.). All drainage pipes up to & including ø225 shall be sewer grade uPVC with solvent weld joints (U.N.O.).
- 15. All pipe junctions, bends & tapers up to & including ø450 shall be via purpose made fittings.
- 16. Contractor to supply & install all fittings including various pipe adaptors to ensure proper connection between dissimilar pipe work.
- 17. All connections to existing drainage pits shall be made in accordance with the NCC BCA 2019 and relevant Australian Standards. The internal wall of the pit at the point of entry shall be cement rendered to ensure a smooth finish.
- 18. Bedding shall be type H1 (U.N.O.), in accordance with current relevant Australian standards.
- 19. Where stormwater lines pass under floor slabs, sewer grade rubber ring joints are to be used.
- 20. All pipes in covered balconies to be ø65 uPVC cast in concrete slab.
- 21. Ø65 PVC @ min 1.0% Ø90 PVC @ min 1.0% Ø100 PVC @ min 1.0% Ø150 PVC @ min 1.0% Ø300 PVC @ min 0.4% Ø225 PVC @ min 0.5% Unless Noted Otherwise
- 22. Contractor to provide a break / open void in rail / balustrade for stormwater emergency overflow.
- 23. All enclosed areas/planter boxes be fitted with floor wastes. 24. Downpipes to be checked by architect & plumber prior to
- construction. 25. Provide 3.0m length of ø100 subsoil drainage pipe wrapped in
- fabric sock, at upstream end of each pit. 26. All the cleaning eyes (or inspection eyes) for the underground
- pipes must be taken up to the finished ground level for easy identification & maintenance purposes.
- 27. All sub-soil drainage shall be provided with a filter sock. The subsoil drainage shall be installed in accordance with details to be provided by the landscape architect.
- 28. Prior to commencing any works, the builder shall ensure that the invert levels of where the site stormwater system connects into the council's kerb/drainage sustem matched the design levels. Any discrepancies shall be reported to the design engineer immediately.
- 29. For stormwater drainage pipes that exceed 1:5 grade, reinforced concrete anchor blocks shall be installed. Anchor blocks to be constructed to specifications set out in AS3500.3-2003 section 8.10
- 30. Existing services shown in approximate locations only. Confirm exact locations and depths on site prior to commencing work.
- 31. Coordinate the installation of new services with all new & existing services & structural provisions as determined on site.
- 32. All pipework is to be tested in accordance with the requirements as set out in AS3500.3-2003. All in-ground pipework to be inspected by the superintendent under test conditions prior to backfilling. Backfilling and bedding to AS3500.3-2003.
- 33. Pipes shall be true to grades shown and aligned so that the centre of the inlet pipe intersects with the centre of the outlet pipe at the downstream face of the pit.
- 34. Lay and joint all pipes in accordance with the manufacturer's recommendations and AS3725-2007: design for installation of buried concrete pipes'.
- 35. Allow to test all pipes and pits to local authority's reouirements.
- 36. Excavate trenches and stockpile all material for inspection with regard to reuse for trench backfill. Remaining material to be removed from site.
- 37. Backfill pipes with imported fill. Provide 200mm side support and 150mm overlay above pipe crown. Trench fill above the embedment zone to the underside of the road pavement or the footway shall be as follow:-

Trench fill material shall consist of imported fill as specified herein of either high grade compaction sand or approved crushed road gravel conforming to TfNSW QA specification 3051

Other than roadway

Trench material excavated shall consist of select fill as specified herein and shall not contain more than 20% of stones of size between 25mm and 75mm and none larger than 75mm. Prior to use of the excavated material it shall be inspected and approved by the engineer.

38. Compact bedding. Embedment and trench fill materials as

Embedment:

- For granular fill material (non-cohesive soil) e.g. Coarse aggregate fill, the density index (id) shall be not less than 70%.
- For granular material (non cohesive soils). The density index (id) shall be not less than 70%. For non-granular fill material (cohesive soils), the dry density ratio (rd) shall be not less than

39. Existing services

- Utility information shown on the plans is not intended to depict more than the presence of any services. Actual locations should be verified by hand excavation prior to construction.
- 40. The contractor shall allow for the capping off, excavation and removal (if required) of all existing services in areas affected bų the works.
- 41. The contractor shall ensure that services to all buildings not affected by the works are not disrupted at all times. The contractor shall construct temporary services to maintain existing supply to buildings remaining where required. Once the works are complete and commissioned the contractor shall remove all such temporary services and make good all disturbed areas.
- 42. Existing pipes which form no part of the drainage system shall be removed or sealed as indicated on the plans. 43. Where downpipes pass under floor slabs, sewer grade uPVC
- with rubber ring joints are to be used. 44. Minimum grade to drainage pipes to be 1% (U.N.O.), min. Size
- 100mm diameter (U.N.O.). 45. Pipe installation under trafficable areas shall be in accordance with concrete pipe association of Australia publication "concrete pipe selection & installation" type HS3
- 46. Equivalent strength FRC pipes may be used subject to authority approval
- 47. Minimum pipe cover to be 600mm under trafficable areas and 300mm elsewhere (U.N.O.).
- 48. Contractor to supply and install all fittings and specials including various pipe adaptors to ensure proper connection between dissimilar pipework.
- 49. Provide cleaning eyes to all downpipes not directly connected 50. Stormwater drainage connections to council's system shall be
- to the requirements and the satisfaction of the local council.

51. Drainage pits

- Pits deeper than 1200mm to be fitted with step irons at 300 centres to AS1657-2013: fixed platforms, walkways, stairways and ladders - design, construction and installation'. 52. All exposed edges to be rounded with 20mm radius, or
- chamfered 20mm x 20mm. 53. Pit reinforcement - mesh SL82 lap to be 400mm min. Clear
- cover 40 mm. Cast against blinding or formwork. Corner returns may be fabric or equivalent bars. 54. Benching to be half outgoing pipe depth. Concrete for benching
- to be 20mpa mass concrete. 55. Approved precast pits may be used.
- 56. 100mm diameter hole for subsoil drainage outlet to be located 100mm above invert of all inlet pipes. Subsoil drainage to extend for a distance of 3m upstream of pit (at each inlet
- trench) with the upstream end sealed. 57. Pit grate, frames and solid covers shall be Class B in non traffic areas and Class D in trafficable areas in accordance with AS3996.

58. Maximum front entry pipe:-

- a. Straight entry Ø750 Skew entrų 45° - Ø525

59. Subsoil drainage

- Subsoil pipes shall be laid at a min grade of 0.5% (U.N.O.).
- 60. Additional subsoil drainage shall be laid to suit site conditions and groundwater presence as directed. 61. Subsoil pipes shall be laid behind kerbs in cut areas of the site.
- 62. Grates to pits in footpath areas shall be heel safe complying with the disabled access code
- 63. Contractor to provide workshop coordinated drawings prior to commencing works on site. Workshop drawings to be reviewed and approved by design engineer.
- 64. All external area to have a minimum 1% fall to outlets provided.
- 65. Provide overflows to all areas to architect's specifications. 66. All rainwater outlets to open areas shall be SPS TRUFLO type TIA100F unless noted otherwise. Do not install balcony outlets

Discipline

Mechanical

or similar in areas subject to direct rainfall.

PC

Designed

BSOIL LINE DRMWATER RISING MAIN SH LEVEL STORMWATER LINE ERFLOW LINE STING STORMWATER LINE THORITY STORMWATER LINE THORITY SEWER LINE THORITY WATER LINE THORITY GAS LINE THORITY ELECTRICITY LINE
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THORITY ELECTRICITY LINE
THORITY UNDERGROUND ECTRICITY LINE
THORITY FIBRE OPTIC LINE
THORITY COMMS LINE
NCE LINE
ATED SURFACE INLET PIT
NCTION PIT
RB INLET PIT
STING KERB INLET PIT
STING TELSTRA PIT
STING HYDRANT
STING STOP VALVE
STING POWER POLE
STING SEWER MANHOLE
ERLAND FLOW PATH
INWATER OUTLET
EAR OUT POINT
PPING
WNPIPE DROP
WNPIPE
OT LEVELS
NCHMARK

Legend

— > —— > —— RAINWATER TANK LINES

— > — STORMWATER LINE



Rev. Description Design Date Drawing No. 20220560-DA-SW-DWG-02 S101 02 Issued For Development Application (DA) PC 01-05-2023 Issued For Development Application (DA) PC 16-11-2022 Specifications Sheet

Architect

Mr & Mrs Maroun

Client

Application Development Application

Project

Development

Address 12 Lloud George Avenue Winston Hills 2153

CITY OF PARRAMATTA Council

Drawn Proposed House Development Reviewed Approved

Andrew Arida B.E Civil/Structural MIEAust (NO: 5579488) Professional Engineer (PRE0000268) Design Practitioner (DEP0000455)

Architect ARCM Design 2022-182 13.04.2023 Date 01-05-2023 H Ramsaų Surveyor 16.06.2022 9208 Surveyor Date 01-05-2023 Landscape Geotechnical Structural Hydraulic/Fire

Consultant

Reference

Revision Date



E admin@deboke.com.au W deboke.com.au A 65 Blaxcell Street, Granville 2142

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100yr 2hr ARI STORM = 41.50 mm/hr

ARIx2 = 83.00 mm/hrAREA OF DRIVEWAY RAMP UNCOVERED = 31.06

> $= 31.06 \times (83.00/1000)$ $= 31.06 \times 0.08300$

= 2.58m3/

THEREFORE, REQUIRED STORAGE = 3.00 m³

NOTE MINIMUM STORAGE REQUIREMENT OF 3m³ AS PER AS/NZS 3500.3.

Keų Notes

STORMWATER RUNOFF FROM VEHICULAR CROSSING FALLS TO BASEMENT & IS COLLECTED BY BASEMENT PUMP OUT PIT.

INSTALL STEP IRONS FOR EASE OF ACCESS DURING MAINTENANCE OF PUMP OUT CONTROL PIT TO COUNCIL SATISFACTION.

INSTALL CONFINED SPACE SIGN ABOVE PUMP OUT PIT FOR PUBLIC AWARENESS AND WARNING.

ALL STORMWATER PIPES AND BASEMENT PIPES ARE Ø100mm uPVC AND SLOPING AT 1.0% U.N.O (TYP).

ALL BUILDING AND HYDRAULIC SERVICES TO BE PROPERLY CO-ORDINATED WITH STORMWATER PIPES AND ENSURE NO CLASHES ARE PRESENT DURING CONSTRUCTION (TYP).

STORMWATER PIPE ARRANGEMENT TO BE CO-ORDINTED WITH STRUCTURAL SLAB AND BEAMS WHERE REQUIRED (TYP).

PROVIDE CLEAR OUT POINTS FOR INSPECTION & MAINTENANCE PURPOSES WHERE REQUIRED (TYP).

Pump-Out Tank Notes

INSTALL WITH THE FOLLOWING ITEMS:

- 900SQ HEAVY DUTY STEEL GRATED LID FOR ACCESS AND MAINTENANCE PURPOSES;

- CONFINED SPACE SIGN ABOVE PUMP OUT PIT FOR PUBLIC

AWARENESS AND WARNING;

- STEP IRONS; REFER TO DETAILS; - PUMP-OUT PIT CONTROL BOX (CTRL) TO MANUFACTURES SPECIFICATIONS. LOCATIONS TO BE CONFIRMED WITH

ARCHITECT; - PUMPS TO OPERATE IN ALTERNATE MODE TO INCREASE

LIFE-SPAN; AND

- INSTALL VISIBLE FLASHING LIGHT SYSTEM IN CASE OF PUMP FAILURE.

Geotechnical Investigation Notes

BASEMENT DRAINAGE DESIGN SUBJECT TO FURTHER GEOTECHNICAL INVESTIGATION AND CONFIRMATION OF GROUND WATER PRESENCE ON SITE IF GROUND WATER TABLE DETECTED URING EXCAVATION, STORMWATER ENGINEER TO BE CONTACTED PRIOR TO COMMENCING ANY WORKS

Standard Pump Out Design Notes

THE PUMP OUT SYSTEM SHALL BE DESIGNED TO BE OPERATED IN THE FOLLOWING MANNER: -

I). THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD

II). A FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM RÉQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS AT THE MINIMUM WATER LEVEL. THE SAME FLOAT SHALL BE SET TO TURN ONE OF THE PUMPS ON UPON THE WATER LEVEL IN THE TANK RISING TO APPROXIMATELY 300MM ABOVE THE MINIMUM WATER LEVEL. THE PUMP SHALL OPERATE UNTIL THE TANK IS DRAINED TO THE MINIMUM WATER LEVEL.

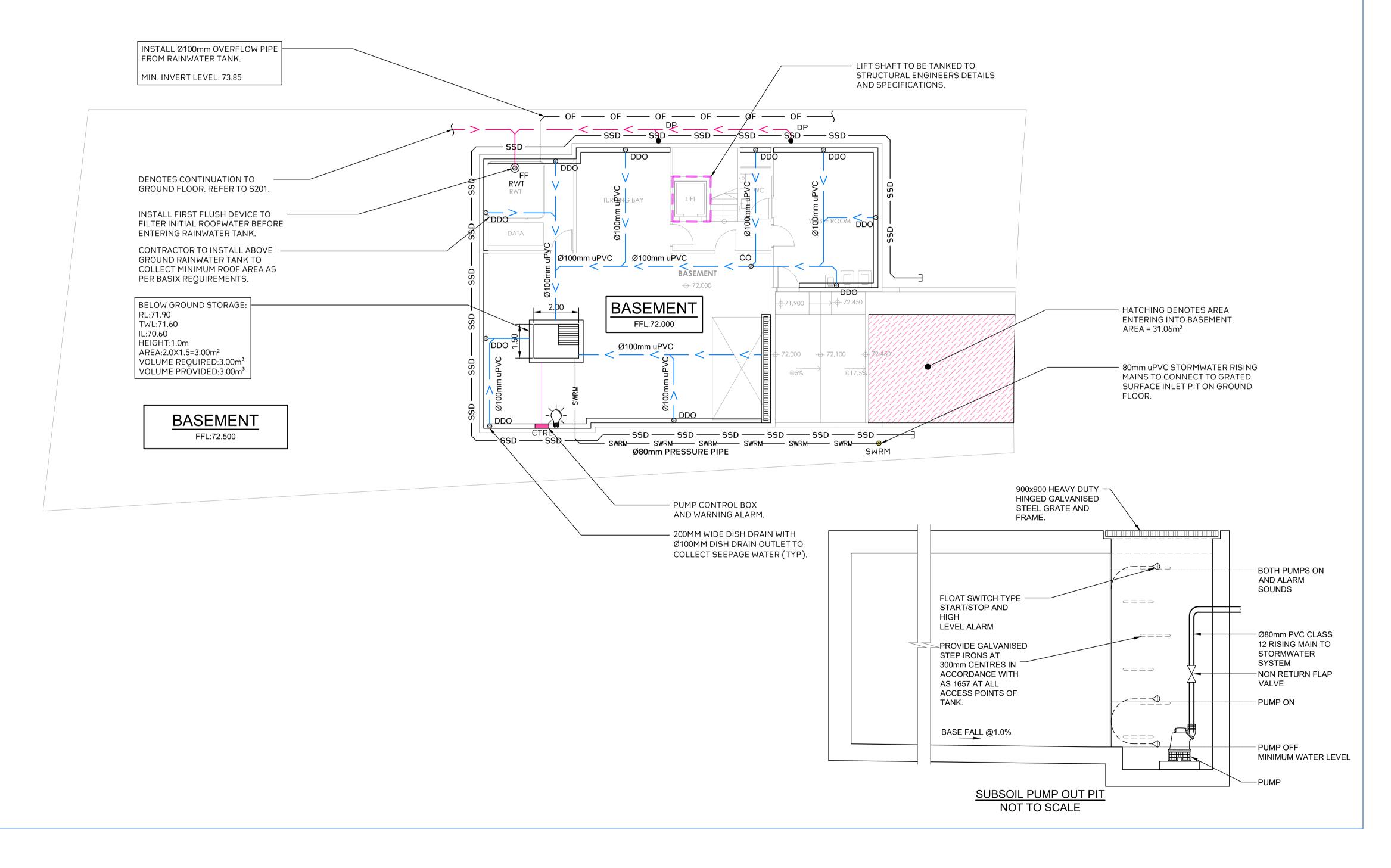
III). A SECOND FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHALL START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

IV). AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBELIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

V). A CONFINED SPACE DANGER SIGN SHALL BE PROVIDED AT ALL ACCESS POINTS TO THE PUMP OUT STORAGE TANK.

PRIOR TO INSTALLATION OF PUMPS OR PUMP OUT LINE, BUILDER/PLUMBER TO CONTACT PUMP SUPPLIER TO DETERMINE THEIR REQUIRED PUMP AND DISCHARGE LINE DETAILS.

BASEMENT PLAN







Application Mr & Mrs Maroun Address

Client

Architect

Project

Proposed House Development Development Development Application 12 Lloud George Avenue Winston Hills 2153

Design Practitioner (DEP0000455)

CITY OF PARRAMATTA Council

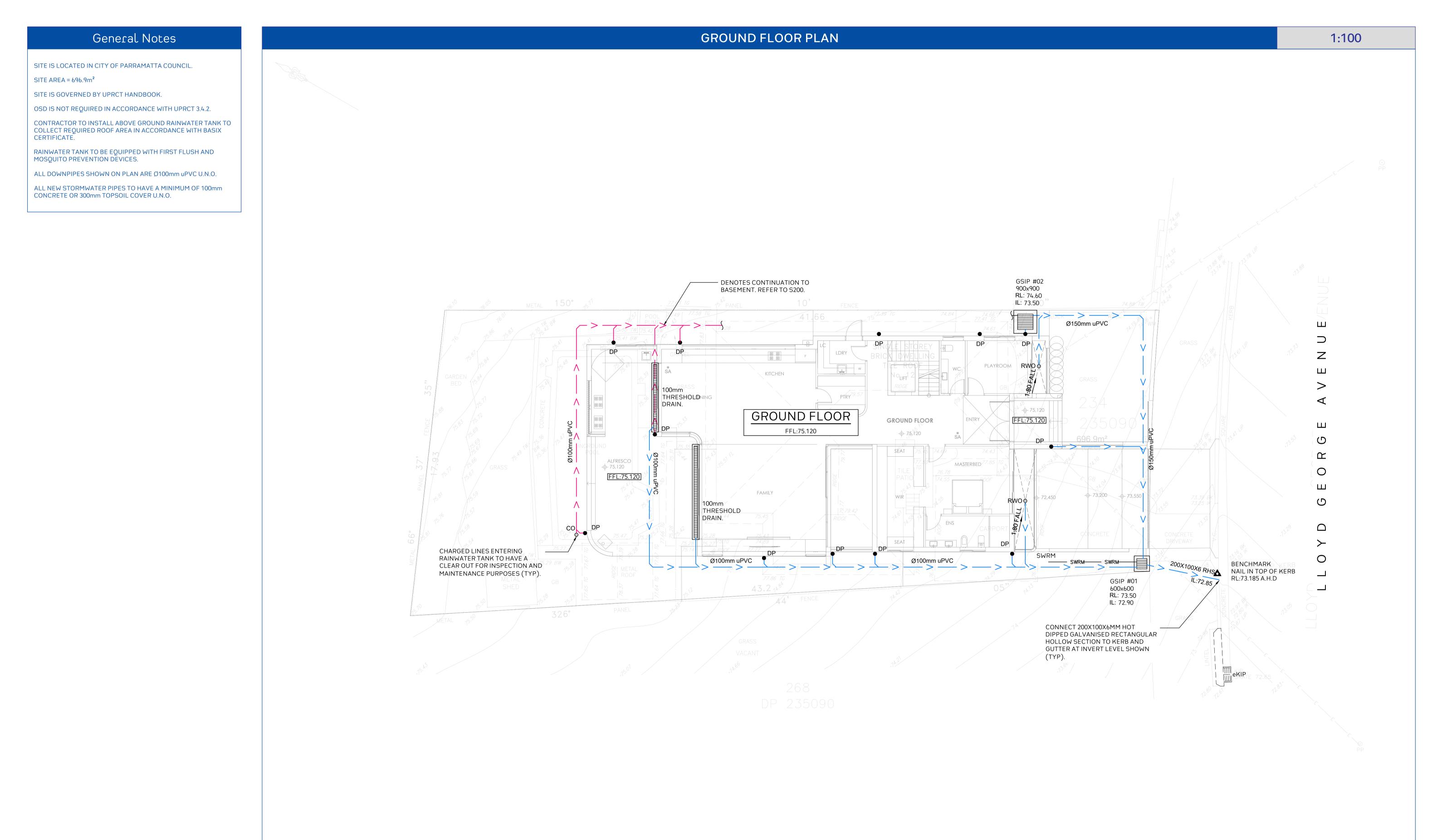
Consultant Reference Revision Date Discipline PC Drawn Designed Architect **ARCM** Design 2022-182 13.04.2023 Reviewed 01-05-2023 Date H Ramsaų Surveyor 16.06.2022 9208 Surveyor Landscape Date 01-05-2023 Approved Geotechnical Andrew Arida B.E Civil/Structural Structural MIEAust (NO: 5579488) Hųdraulic/Fire Professional Engineer (PRE0000268)

Mechanical



1:100

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Project No.	Drawing No.	Rev.	Description	Design	Date	
20220560-DA-SW-DWG-02	S201	02	Issued For Development Application (DA)	PC	01-05-2023	
Title Ground Floor Plan		01	Issued For Development Application (DA)	PC	16-11-2022	,
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Mr & Mrs Maroun

Project
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Development

Application
Development Application

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CITY OF PARRAMATTA Council

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Approved	AA	Date	01-05-2023	L
Andrew Arida			//	G
B.E Civil/Stru	ictural			S

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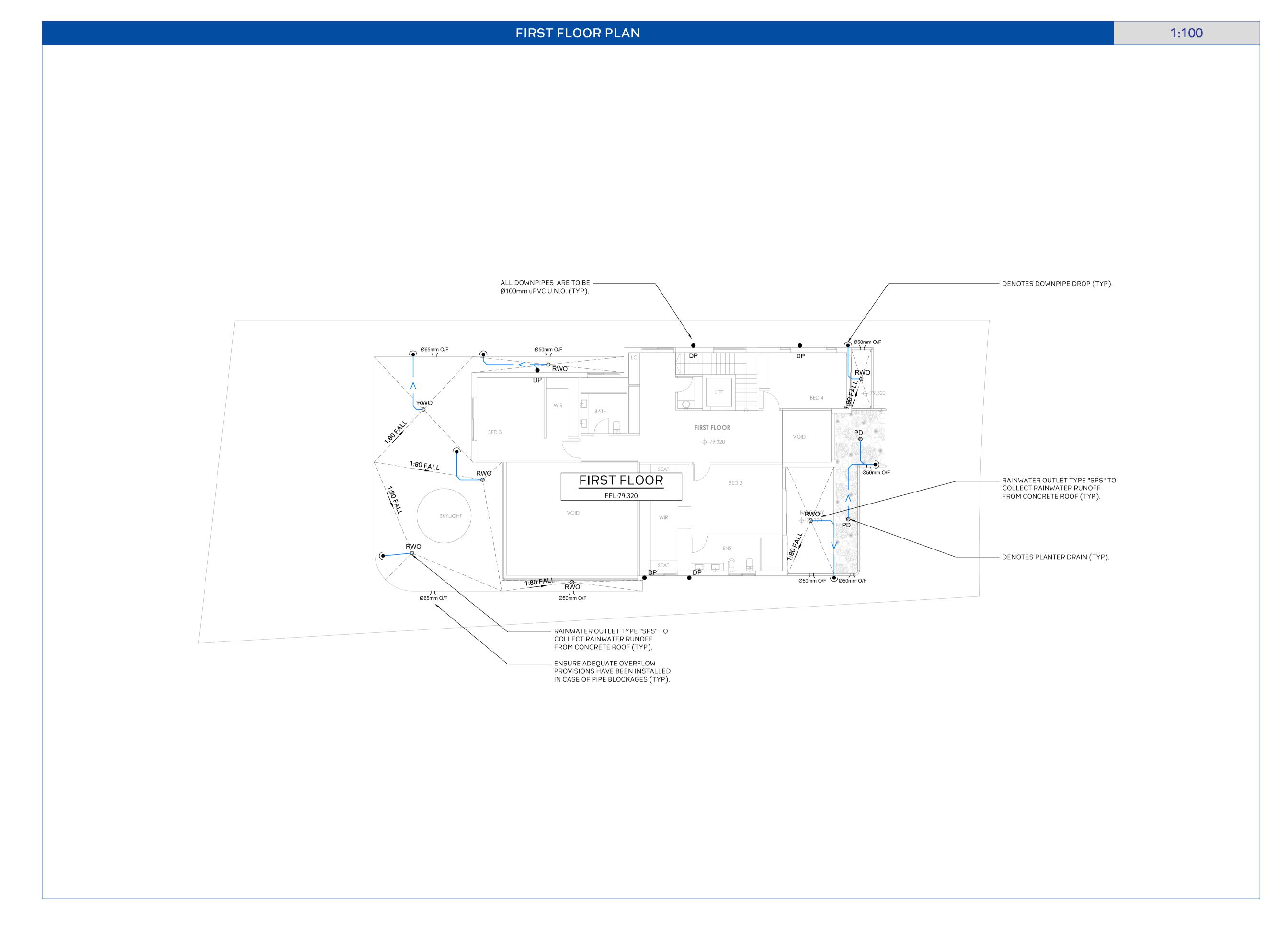
Professional Engineer (PRE0000268)

Design Practitioner (DEP0000455)

PC	Discipline	Consultant	Reference	Revision	Date
05.0000	Architect	ARCM Design	2022-182	G	13.04.2023
-05-2023	Surveyor	H Ramsaų Surveųor	9208		16.06.2022
-05-2023	Landscape				
//	Geotechnical				
Mirida	Structural				
MAN	Hydraulic/Fire				

Mechanical







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)220560-DA-SW-DWG-02	S202	02	Issued For Development Application (DA)	PC	01-05-2023
rst Floor Plan		01	Issued For Development Application (DA)	PC	16-11-2022
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Client Architect

Mr & Mrs Maroun

Project
Proposed House Development Development Application Development Application Address 12 Lloud George Avenue Winston Hills 2153

CITY OF PARRAMATTA Council

Drawn	JP	Designed PC		Discipline	Consultant	
				Architect	ARCM Design	
Reviewed	JD	Date	01-05-2023	Surveyor	H Ramsaų Surve	
Approved	AA	Date	01-05-2023	Landscape		
Andrew Arida			//	Geotechnical		
B.E Civil/Stru			/ /	Structural		

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Reviewed	JD	Date	01-05-2023	Surveyor	H Ramsaų Surveyor	9208		16.06.202
Approved	AA	Date	01-05-2023	Landscape				
Andrew Arida	Andrew Arida		//	Geotechnical				
B.E Civil/Stru	ıctural	00)	Menda	Structural				
	MIEAust (NO: 5579488) Professional Engineer (PRE0000268)			Hydraulic/Fire				
Design Pract	itioner ((DEP0000455))	Mechanical				

Reference Revision Date



Roof Notes

INSTALL 50mm uPVC SPITTER PIPES 20mm ABOVE SURFACE LEVEL FOR BALCONY AND CONCRETE ROOF AREAS TO ALLOW FOR EMERGENCY OVERFLOW INCASE OF BLOCKAGES DURING HEAVY STORMS. PLUMBER TO CONFIRM LOCATION DURING CONSTRUCTION.

ALL BUILDING AND HYDRAULIC SERVICES TO BE PROPERLY CO-ORDINATED WITH STORMWATER PIPES AND ENSURE NO CLASHES ARE PRESENT DURING CONSTRUCTION (TYP).

STORMWATER PIPE ARRANGEMENT TO BE CO-ORDINTED WITH STRUCTURAL SLAB AND BEAMS WHERE REQUIRED (TYP).

BALCONY, TERRACE & CONCRETE ROOF AREAS TO SLOPE TOWARDS RAINWATER OUTLETS WHERE REQUIRED (TYP).

ARROW DENOTES THE SLOPE OF FINISHED SURFACE LEVEL

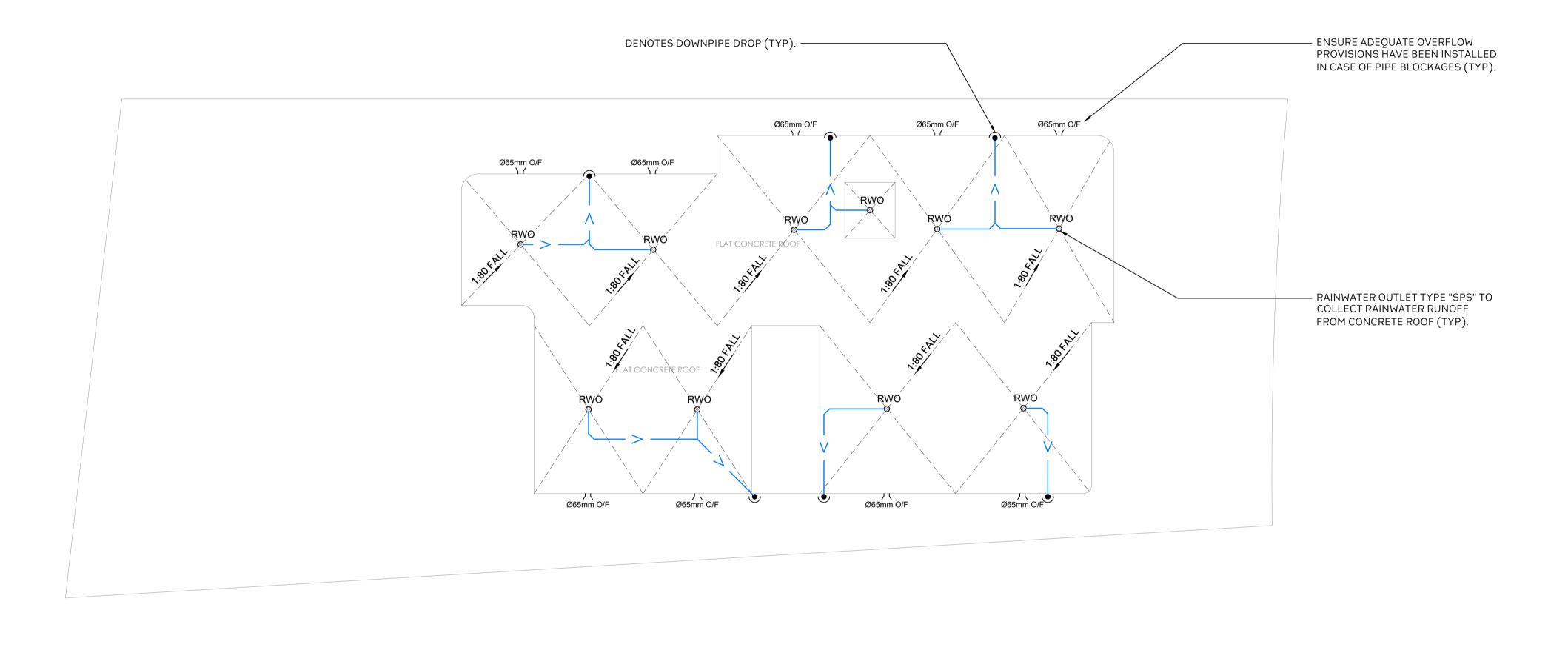
DOWNPIPES SHOWN ON PLAN ARE TO BE Ø100mm uPVC U.N.O.

PROPOSED DOWNPIPE LOCATIONS ARE NOMINAL AND TO BE CONFIRMED DURING CONSTRUCTION (TYP).

INSTALL DOWNPIPE WITH SPREADER (IF REQUIRED) TO DISPERSE STORMWATER ONTO LOWER ROOF AREAS EFFECTIVELY.

PROVIDE SURFACE DRAINAGE FOR ALL CONCRETE AND BALCONY ROOF AREAS WHERE REQUIRED.

ROOF PLAN





Project No.	Drawing No.	Rev.	Description	Design	Date
20220560-DA-SW-DWG-02	S203	02	Issued For Development Application (DA)	PC	01-05-2023
Title		01	Issued For Development Application (DA)	PC	16-11-2022
Roof Plan					
Scale					
0m 1 2 3 4 5 SCALE 1:100 ON ORIGINAL SIZE	(>)				



Architect

Mr & Mrs Maroun

Client

Project Proposed House Development Development	
Application Development Application	
Address 12 Lloud George Avenue Winston	

CITY OF PARRAMATTA Council

Hills 2153

Reviewed	JD	Date	01-05-202			
Approved	AA	Date	01-05-202			
Andrew Arida B.E Civil/Structural MIEAust (NO: 5579488) Professional Engineer (PRE0000268)						

Design Practitioner (DEP0000455)

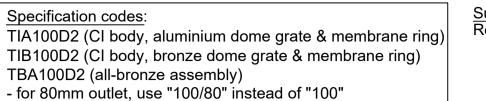
Designed

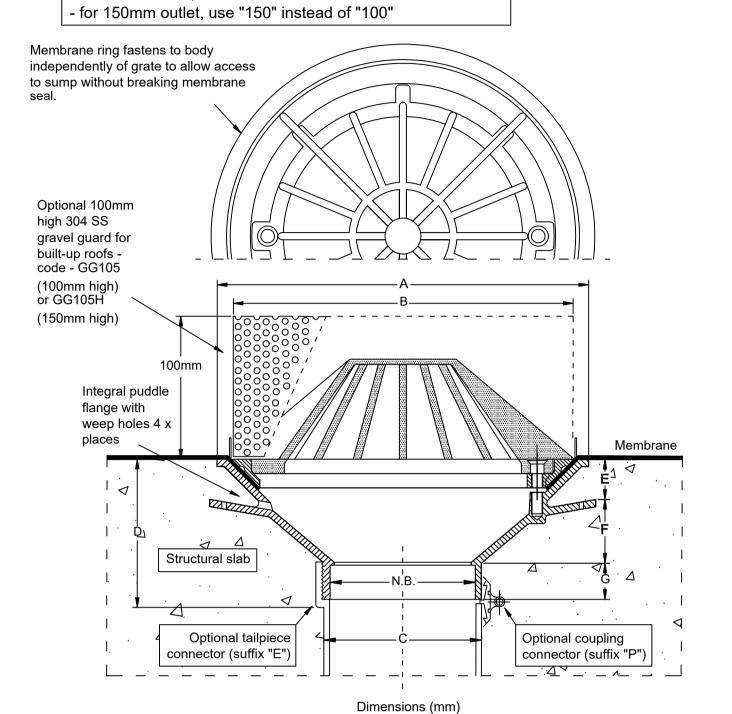
Drawn

	Discipline	Consuctant	Reference	Revision	Date
222	Architect	ARCM Design	2022-182	G	13.04.2023
)23	Surveyor	H Ramsaų Surveųor	9208		16.06.2022
)23	Landscape				
	Geotechnical				
	Structural				
-	Hydraulic/Fire				
	Mechanical				



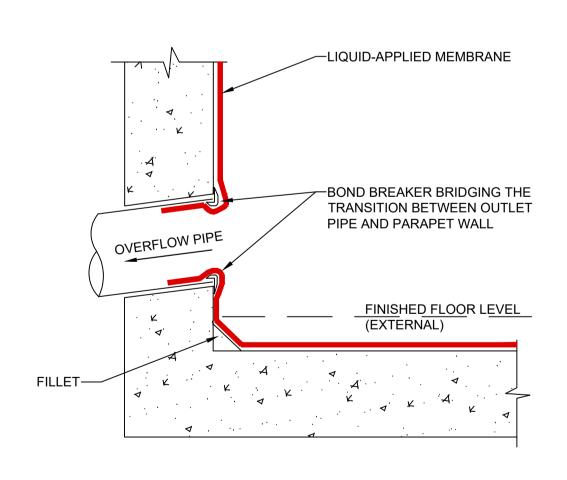
SPS Truflo 100mm & 150mm RWO with Dome Grate & Membrane Clamp

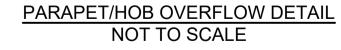


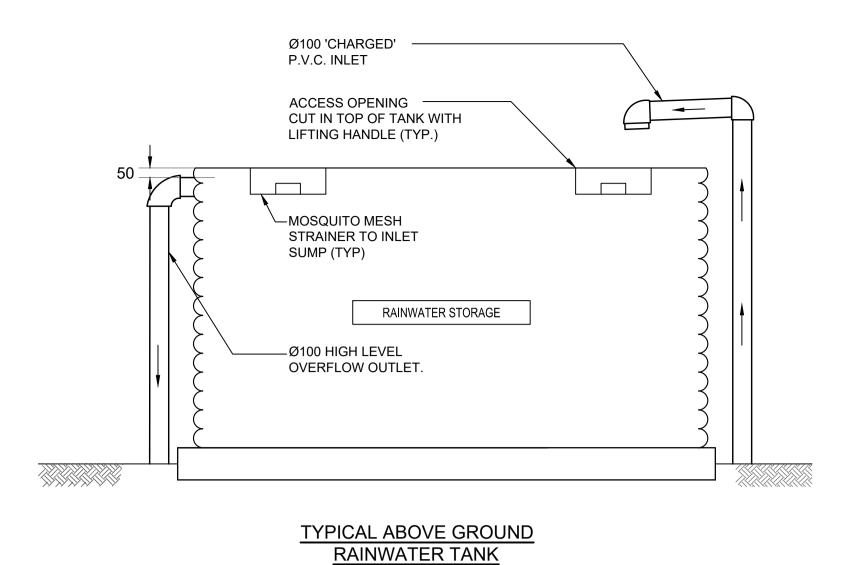


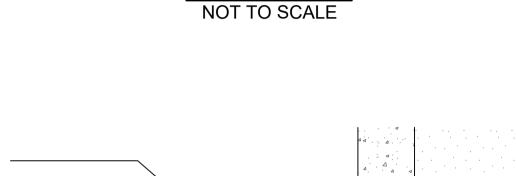
N.B	Α	В	С	D	Е	F	G	
80	260	240	82	106	28	45	25	
100	260	240	103	106	28	45	25	
150	260	240	151	86	28	37	25	
*For flow rate data please refer to appendix.								

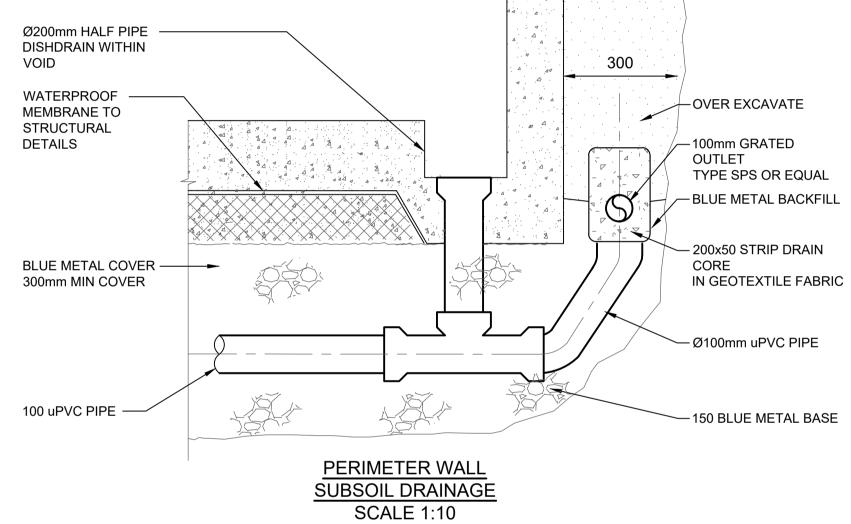
Speciality Plumbing Supplies Pty Ltd

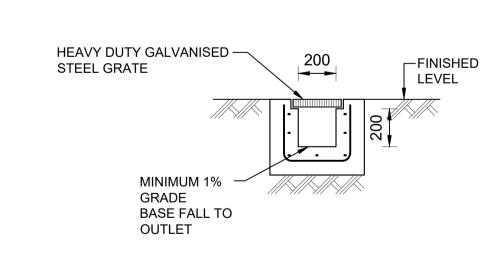




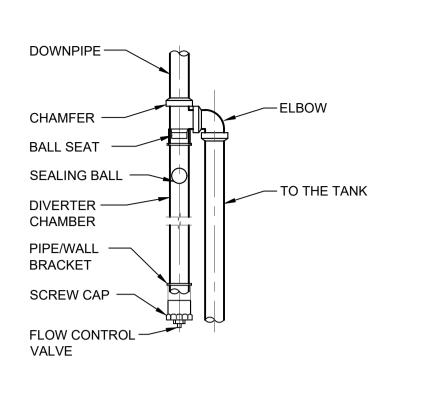








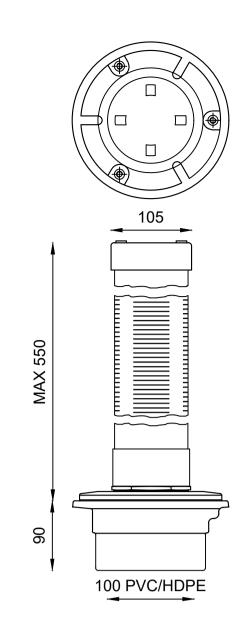
GRATED TRENCH DRAIN SCALE 1:20



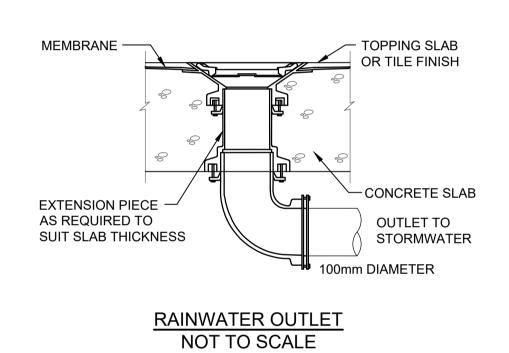
FIRST FLUSH DIVERTER SCALE 1:20

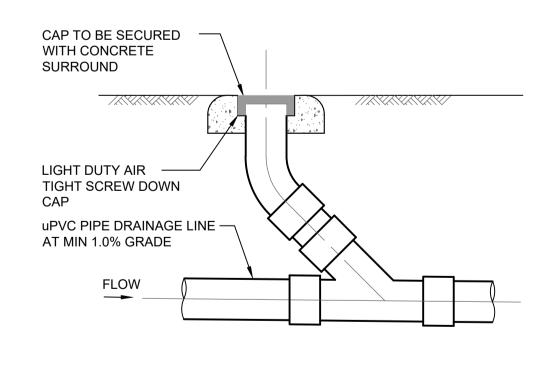


RAINWATER SIGN SCALE 1:10

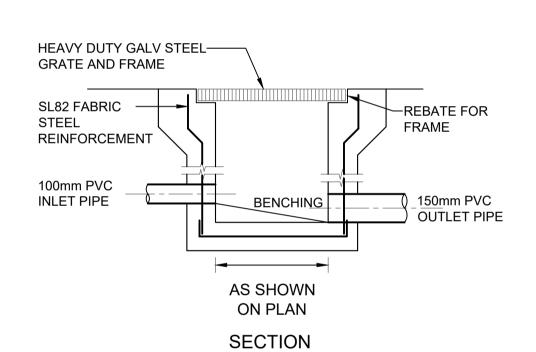


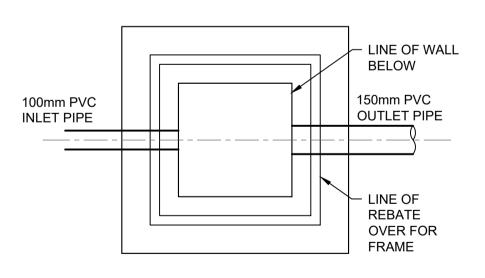
PLANTER DRAIN DETAIL











PLAN WITHOUT GRATE

STORMWATER PIT SCALE 1:20

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	del	debo

Project No.	Drawing No.	Rev.	Description	Design	Date	
20220560-DA-SW-DWG-02	S300	02	Issued For Development Application (DA)	PC	01-05-2023	
Title Details Sheet		01	Issued For Development Application (DA)	PC	16-11-2022	/ [
Scale		 				I
0m 0.2 0.4 0.6 0.8 1.0 SCALE 1:20 ON ORIGINAL SIZE						





Client

ProjectProposed House Developm Development **Application** Development Applicati

Address
12 Lloud George Avenue Winston
Hills 2153
LGA
CITY OF PARRAMATTA Council

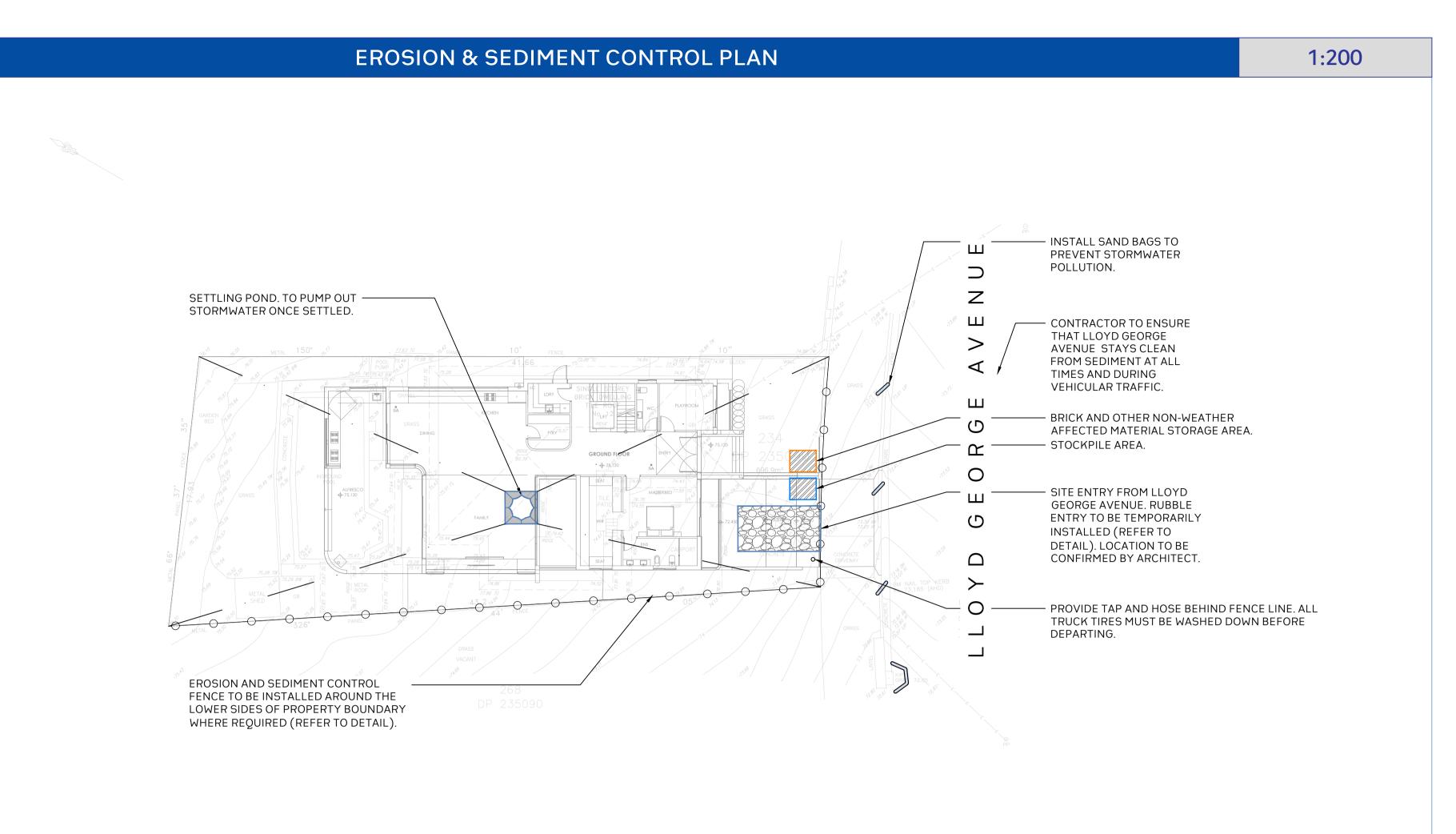
pment	Drawn		
princine	Reviewed		
ion	Approved		
uo Mineton	Andrew Arida		

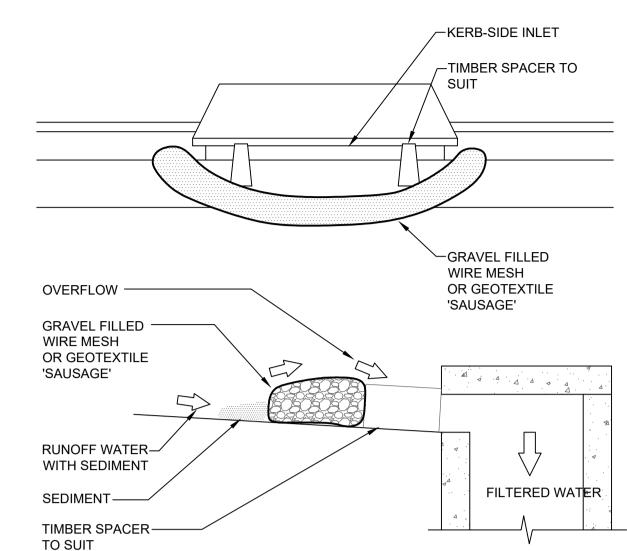
Reviewed	JD	Date	01-03-20
Approved	AA	Date	01-05-20
Andrew Arida B.E Civil/Stru MIEAust (NO	Mrida (18)		

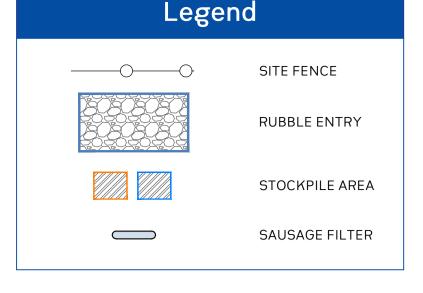
Drawn	JP	Designed	PC	Discipline	Consultant	Reference	Revision	Date
				Architect	ARCM Design	2022-182	G	13.04.202
Reviewed	JD	Date	01-05-2023	Surveyor	H Ramsaų Surveųor	9208		16.06.202
Approved	coved AA Date 01-05-2023		Landscape					
Andrew Arida B.E Civil/Structural			Geotechnical					
			Hida	Structural				
MIEAust (NO: 5579488) Professional Engineer (PRE0000268)				Hydraulic/Fire				
Design Practitioner (DEP0000455)			Mechanical					

Mechanical





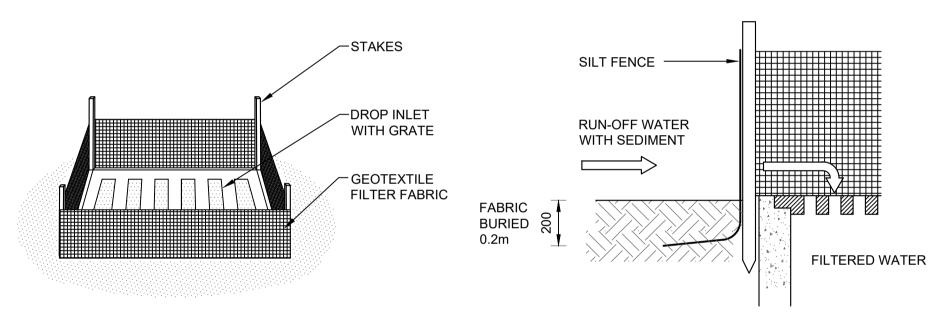




CONSTRUCTION NOTES:

- 1. INSTALL KERB INLET FILTERS TO KERB INLETS ONLY AT SAG POINTS OR AS SHOWN ON PLAN
- 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
- PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

GRAVEL INLET FILTER (SANDBAG)



SUMP SEDIMENT TRAP

RUNOFF DIRECTED TO

SEDIMENT TRAP/FENCE

GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING

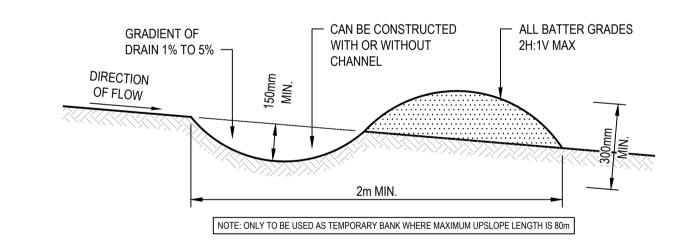
GOOD PROPERTIES OF THE SUBBASE LAYERS. GEOTEXTILE

OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN

MAYBE WOVEN OR NEDDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500N -

DGB20 ROAD BASE OF

30mm AGGREGATE -



GENERAL CONSTRUCTION NOTES

- 1. CONSTRUCT WITH GRADIENT OF 1% TO 5%
- 2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE
- 3. DRAINS TO BE CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V-SHAPED
- 4. EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE
- 5. PERMANENT OR TEMPORARY STABILISATION OF THE EARTH BANK TO BE COMPLETED WITHIN 10 DAYS OF CONSTRUCTION 6. ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO A SEDIMENT BASIN OR SIMILAR
- DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR AN
- UNDISTURBED DISPOSAL SITE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER 8. COMPACT BANK WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO
- FUNCTION FOR MORE THAN FIVE DAYS
- EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDED

EARTH BANK (LOW FLOW)

STABILISED SITE ACCESS CONSTRUCTION NOTES:

STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.

Reference Revision Date

- COVER THE AREA WITH NEEDLE PUNCHED GEOTEXTILE CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
- 4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST
- 3 METRES WIDE. 5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE

STABILISED ACCESS TO DIVERT WATER TO SEDIMENT FENCE.

STABILISED SITE ACCESS



20220560-DA-SW-DWG-02

Erosion and Sediment Control Plan

3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED

5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE

1. CONSTRUCTION SEDIMENT FENCES AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE

Project No.

(UNLESS NOTED OTHERWISE ON SWMP/ESCP)

STAR PICKET AT

MAXIMUM 3m SPACINGS

Rev. Description

Drawing No.

NTS

SELF-SUPPORTING

- ON SILO, 150mm x 100mm

TRENCH WITH COMPACTED

BACKFILL AND ON ROCK, SET

Issued For Development Application (DA)

INTO SURFACE CONCRETE

CONSTRUCT

EARTH BANK

DIRECTION

OF FLOW

GEOTEXTILE

DIRECTION OF FLOW



STABILISE STOCKPILE

SURFACE -

2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND

4. REHANILITATE IN ACCORDANCE WITH THE SWMP/ESCP

A SEDIMENT FENCE 1 TO 2m DOWNSLOPE OF STOCKPILE

GENERAL CONSTRUCTION NOTES

ROADS AND HAZARD AREAS

1. LOCATE STOCKPILE AT LEAST 5m FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS,

3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LASS THAN 2m IN HEIGHT

5. CONSTRUCT EARTH BANK ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND

Project Proposed House Development Development

Application Address 12 Lloud George Avenue Winston

Andrew Arida B.E Civil/Struc MIEAust (NO: Professional E Design Practition

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JD Dat		01-05-2023	Architect	ARCM Design	2022-182	G	13.04.2023			
	Date		Surveyor	H Ramsay Surveyor	9208		16.06.2022			
	AA	Date	01-05-2023	Landscape						
uctural D: 5579488) Engineer (PRE0000268)			//	Geotechnical						
			Haida	Structural						
			58)	Hydraulic/Fire						
itioner (DEP0000455)		Mechanical								



EXISTING ROADWAY



DISTURBED AREA

UNDISTURBED AREA

ELEVATION

NTS

GENERAL CONSTRUCTION NOTES

4. BACKFILL TRENCH OVER BASE OF FABRIC

2. DIVE 1.5m LONG STAR PICKETS INTO GROUND, 3m APART

6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP



Mr & Mrs Maroun

CONSTRUCT

SEDIMENT FENCE -

Hills 2153 CITY OF PARRAMATTA Council

Development Application

Approved

Drawn

Reviewed