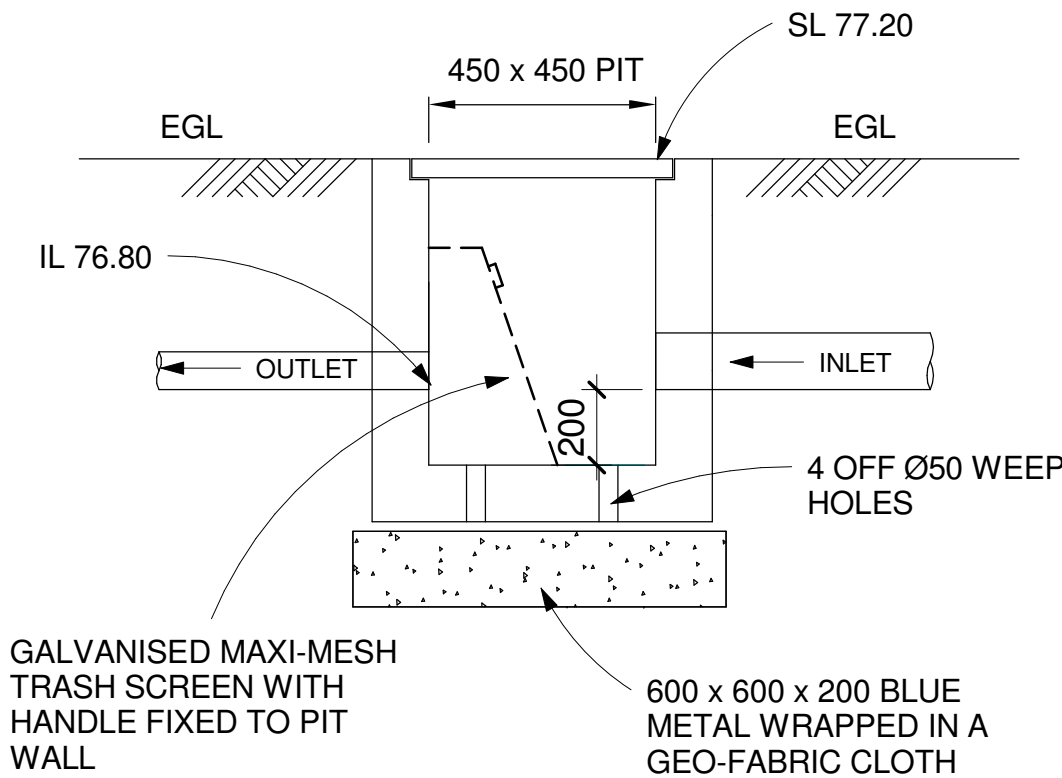


SITE AND GROUND FLOOR STORMWATER DRAINAGE PLAN

- ON-SITE DETENTION IS NOT REQUIRED ON THIS PROJECT. THE PROPERTY LIES BELOW STREET LEVEL. THE SITE IS COVERED IN ROCK OUTCROPS AND THE TERRAIN IS DIFFICULT ALL THE WAY DOWN THROUGH THE ADJOINING PROPERTY TO WHALE BEACH ROAD, RENDERING AN ABSORPTION TYPE OR DRAINAGE EASEMENT DRAINAGE SOLUTION IMPOSSIBLE ACHIEVE. HENCE, A 6m LONG SPREADER TRENCH DRAIN IS TO BE USED TO DISPERSE STORMWATER RUN-OFF FROM THE RAINWATER TANK OVERFLOWS AND PIT1.
- A 3000 LITRE ABOVE GROUND RAINWATER TANK HAS BEEN PROVIDED FOR THIS RESIDENCE AS PER THE BASIX REPORT. THIS STORED RAINWATER IS TO BE RE-USED FOR AT LEAST ONE EXTERNAL TAP FOR WATERING GARDENS AND THE COLD WATER SUPPLY IN THE LAUNDRY. THE OVERFLOW FROM THIS TANK IS TO BE CONNECTED DIRECTLY TO PIT 1.
- PROVIDE A GALVANIZED MAXI-MESH TRASH SCREEN OVER THE OUTLET PIPE IN PIT 1.
- ALL EXISTING LEVELS SHOWN ARE SUPPLIED BY THE SURVEYOR.
- ALL STORMWATER DRAINAGE PIPES TO BE LAID IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS
- MINIMUM FALLS IN ALL STORMWATER DRAINAGE LINES TO BE 1:100 U.N.O.
- MINIMUM COVER OVER ALL STORMWATER DRAINAGE LINES TO BE :-
  - 150mm. MINIMUM UNDER PAVED OR DRIVEWAY AREAS
  - 300mm. MINIMUM UNDER LAWN AREAS
- ALL STORMWATER DRAINAGE LINES TO BE PVC SEWER GRADE U.N.O.
- ALL PITS AND GRATED DRAINS TO BE CAST INSITU CONCRETE OR EQUIVALENT WITH A GALVANISED STEEL GRATE ON TOP.
- S.L. DENOTES SURFACE LEVEL OF PITS, GRATED DRAINS OR PAVEMENTS.
- I.L. DENOTES INVERT LEVEL OF PITS OR GRATED DRAINS.
- I.O. DENOTES INSPECTION OPENINGS FOR ACCESSING DRAINAGE LINES.
- DP DENOTES 100mm PVC SEWER GRADE, SUGGESTED DOWNPIPE LOCATIONS. THE FINAL LOCATIONS TO BE DETERMINED BY THE BUILDER AND / OR ROOF PLUMBER ON SITE THESE DOWN PIPES ARE CONNECTED PIT 1.
- DP1 DENOTES 100mm PVC SEWER GRADE, SUGGESTED DOWNPIPE LOCATIONS. THE FINAL LOCATIONS TO BE DETERMINED BY THE BUILDER AND / OR ROOF PLUMBER ON SITE THESE DOWN PIPES ARE CONNECTED TO THE RAINWATER TANK.
- WE RECOMMEND THAT LEAF GUARD BE PLACED OVER ALL EAVE AND BOX GUTTERS.
- ALL STORMWATER DRAINAGE WORK IS TO BE CONSTRUCTED IN ACCORDANCE WITH AS 3500.3:2003 AND THE BASIX CERTIFICATE.
- HAND EXCAVATE TRENCH FOR DRAINAGE PIPES UNDER TREE CANOPY, ENSURING NOT TO SEVER TREE ROOTS.
- ALL SERVICES ARE TO BE LOCATED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION.
- JENS CLEMENSEN FROM CLEMENSEN HOLDINGS P/L IS THE NOMINATED SUPERVISING ENGINEER FOR ALL CIVIL WORKS.

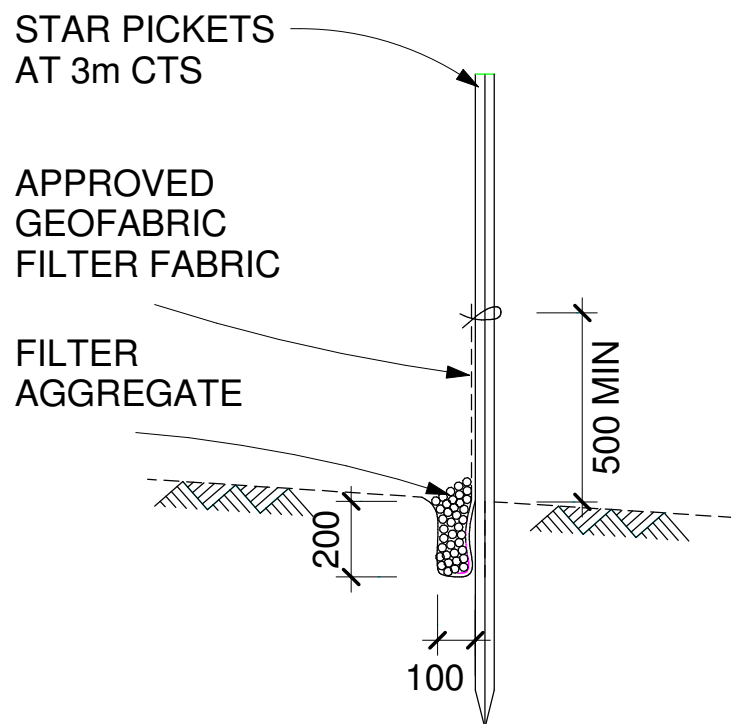
RAINWATER RE-USE SYSTEM NOTES:

1. RAINWATER SUPPLY PLUMBING TO BE CONNECTED TO AT LEAST ONE EXTERNAL TAP, THE COLD WATER SUPPLY IN THE LAUNRY AND FOR WATERING GARDENS .
2. TOWN WATER CONNECTION TO RAINWATER TANK TO BE TO THE SATISFACTION OF SYDNEY WATER, THIS MAY REQUIRE PROVISION OF:
  - A. PERMANENT AIR GAP
  - B. A BACKFLOW PREVENTION DEVICE
  - C. NO DIRECT CONNECTION BETWEEN TOWN WATER SUPPLY AND RAIN SUPPLY
  - D. AN APPROVED STOP VALVE AND/OR PRESSURE LIMITING VALVE AT THE RAINWATER TANK.
3. PROVIDE AT LEAST ONE (1) EXTERNAL HOSE COCK ON THE TOWN WATER FOR FIRE FIGHTING.
4. PROVIDE APPROPRIATE FLOAT VALVES AND/OR SOLENOID VALVES TO CONTROL TOWN WATER SUPPLY INLET TO TANK IN ORDER TO ACHIEVE THE TOP UP ZONE INDICATED ON THE TYPICAL DETAIL.
5. ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED PLUMBERS IN ACCORDANCE WITH AS3500.1 NATIONAL PLUMBING AND DRAINAGE CODE.
6. PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT BY LICENSED ELECTRICIAN.
7. ONLY ROOF RUN-OFF IS TO BE DIRECTED TO THE RAINWATER TANK. SURFACE WATER INLETS ARE NOT TO BE CONNECTED.
8. PIPE MATERIALS FOR RAINWATER SUPPLY PLUMBING ARE TO BE APPROVED MATERIALS TO AS3500 PART 1 SECTION 2 AND TO BE CLEARLY AND PERMANENTLY IDENTIFIED 'RAINWATER'; THIS MAY BE ACHIEVED FOR BELOW GROUND PIPES USING IDENTIFICATION TAPE (MADE IN ACCORDANCE WITH AS2648) OR FOR ABOVE GROUND PIPES BY USING ADHESIVE PIPE MARKERS (MADE IN ACCORDANCE WITH AS1345).
9. EVERY RAINWATER SUPPLY OUTLET POINT AND THE RAINWATER TANK ARE TO BE LABELLED 'RAINWATER' ON A METALLIC SIGN IN ACCORDANCE WITH AS1319.
10. ALL INLETS AND OUTLETS TO THE RAINWATER TANK TO HAVE SUITABLE MEASURES PROVIDED TO PREVENT MOSQUITO AND VERMIN ENTRY.

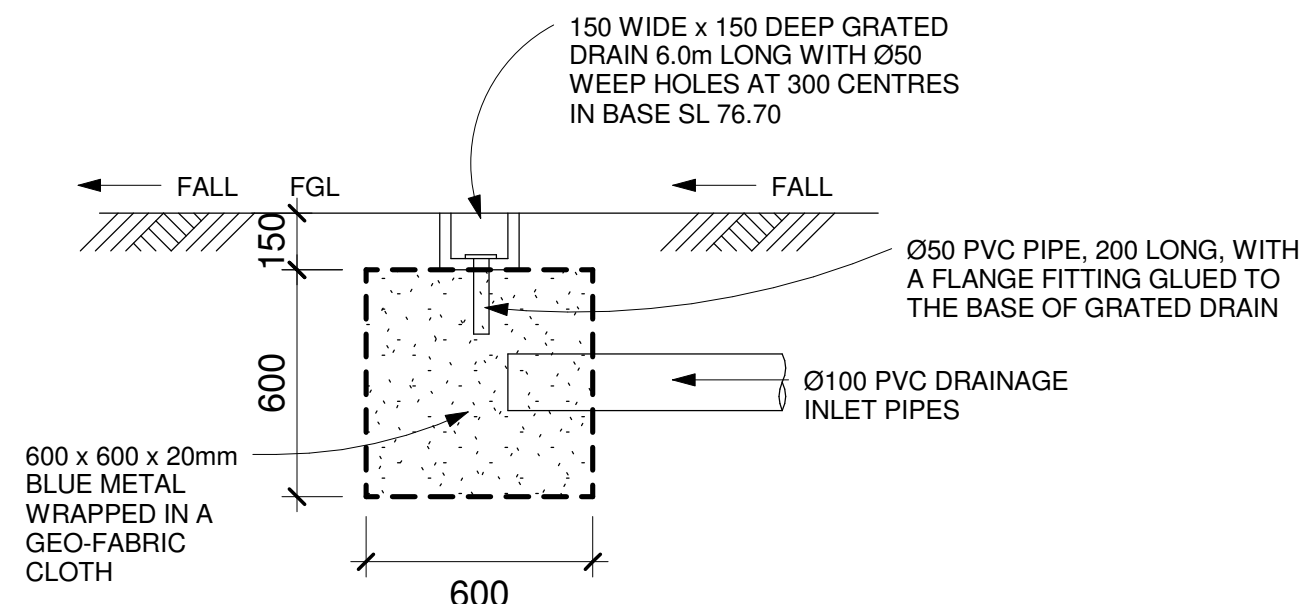


SECTION THROUGH PIT 1

- SEDIMENT AND LITTER CONTROL PIT



SILT FENCE BARRIER DETAIL



TYPICAL SECTION THROUGH LEVEL SPREADER TRENCH DRAIN

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Date:	MARCH 2020	Designed: JC
Scale:	1:100, 1:10	Checked: JC
Drawn:	JPJ	
PROPOSED NEW RESIDENCE AT 13 PACIFIC ROAD, PALM BEACH		
Project		
SITE AND GROUND FLOOR STORMWATER DRAINAGE PLAN		
Drawing Title		
Job No.	2020/023	Drawing No. H01A
Clemensen Holdings Pty Ltd		
Consulting Structural and Civil Engineers		
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