MULTI DWELLING DEVELOPMENT

8 LINKSVIEW AVE., LEONAY STORMWATER CONCEPT PLAN



PIPELINE SYMBOL LEGEND

HYDRAULIC SERVICES NOTES & PROJECT REQUIREMENTS

- DOCUMENTS, AUSTRALIAN STANDARDS, AND AUTHORITY REQUIREMENTS APPLICABLE TO THE WORKS, CLAIMS DUE TO
- THE CONTRACTOR IS REQUIRED TO VISIT AND INSPECT EXISTING SITE STRUCTURES. SERVICES AND CONDITIONS OF THE SITE PRIOR TO SUBMITTING THEIR TENDER AND FAMILIARISE THEMSELVES WITH THE VISIBLE NATURE AND CONDITIONS OF THE SITE
- THE MINIMUM STANDARDS AS SET OUT BY THE RELEVANT AUSTRALIAN STANDARD APPLICABLE TO THAT SERVICE. THI L REQUIREMENTS NECESSARY FOR THE EXECUTION OF THE WORKS IN ACCORDANCE WITH THE STANDARDS AS SET OUT BY HE RELEVANT AUSTRALIAN STANDARD APPLICABLE TO THAT SERVICE. THE RELEVANT LOCAL AUTHORITY REQUIREMENTS AND35DRAWINGS OF ALL OTHER DISCIPLINES FOR THIS PROJECT, IGNORANCE OF THE CONTENTS OF ANY DOCUMENT
- ALLOW TO OBTAIN ALL APPROVALS AND PAY ALL FEES AND CHARGES TO ALL AUTHORITIES IN RELATION TO THE37 PROPOSED SERVICE INSTALLATIONS INDICATED ON THE DRAWINGS
- ALLOW TO DISCONNECT & SEAL ALL REDUNDANT HYDRAULIC SERVICES RELATED TO THE INSTALLATION OF THE PROPOSED WORKS TO THE REQUIREMENTS OF THE RELEVANT AUTHORITY
- 7. ALL WORK BE CARRIED OUT IN ACCORDANCE WITH WATER & SEWER AUTHORITY REGULATIONS, SUPERINTENDENTS
- 8. LOCATION OF FIXTURES SHALL BE IN ACCORDANCE WITH LATEST ARCHITECTURAL DRAWINGS
- WIRING OF HWU/S AND GPO/S FOR BOILING / CHILLED WATER UNIT BY ELECTRICAL CONTRACTOR
- 10. LIAISE WITH BUILDING SUPERINTENDENT TO ARRANGE SHUTDOWN AND ASSOCIATED WORKS
- 11. ALL PIPES FIXTURES & FITTINGS ARE TO BE FIRST QUALITY AND OF ONE MANUFACTURER. WRITTEN WARRANTIES ON WORKMANSHIP AND MATERIALS OF AT LEAST 1 YEAR REQUIRED FOR EACH UNIT. ALL UNITS SHALL BE SUBJECT TO41. HYDRAULIC SERVICES CONTRACTOR SHALL PROVIDE A CERTIFICATE OF COMPLIANCE UPON COMPLETION OF WORK INSPECTION BY THE SUPERINTENDENT. ALL TO BE VANDAL PROOF

- 15. PROVIDE ALL MATERIALS AND LABOUR NECESSARY TO PROVIDE A COMPLETE, WORKING AND SERVICEABLE45. CAP OFF ALL REDUNDANT SERVICES AT THE AUTHORITY MAIN. ARRANGE INSPECTION WITH THE AUTHORITY PRIOR TO INSTALLATION BASED ON THE DRAWINGS. SPECIFICATION COORDINATION WITH THE STRUCTURE AND OTHER BACK FILLING AND MAKING GOOD THE SURFACE. PAY ALL ASSOCIATED FEES AND CHARGES. SERVICES PLUS ANY RELEVANT AUSTRALIAN STANDARDS
- 16. ALL MATERIALS USED IN THE WORK SHALL BE NEW AND OF THE BEST QUALITY AND TYPE AVAILABLE TO CONFORM STANDARDS. WITH THE RELEVANT AUSTRALIAN STANDARDS AND BEAR THE REQUIRED STANDARDS MARK.
- 17. FOR ALL PLUMBING AND DRAINAGE WORKS, AN APPLICATION SHALL BE LODGED AS REQUIRED BY THE SYDNEY VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK. WATER REGULATION 2000 SECTION 7 UNDER THE SYDNEY WATER ACT 1994. UPON COMPLETION. THE PLUMBER CARRYING OUT THE WORK SHALL SUBMIT TO THE PROJECT MANAGER THE SIGNED ORIGINAL OWNER'S COPY OF THE48. REUSED DRAINS UNDER BUILDINGS SHALL BE RETESTED WHERE DIRECTED BY SUPERINTENDENT. CERTIFICATE OF COMPLIANCE
- 18. ANY DAMAGE TO SERVICES DURING CONSTRUCTION SHALL REPAIRED IMMEDIATELY AT THE CONTRACTORS OWN 49.1. THE PROPERTY BOUNDARY
- & STANDARDS.
- 21. ALLOW TO MAKE APPLICATION & PAY ALL FEES TO SYDNEY WATER TO OBTAIN A PERMIT TO UNDERTAKE PLUMBING &51. PROVIDE 80mm COMPRESSIBLE MATERIAL OVER PIPEWORK WHERE CLEARANCE TO UNDERSIDE OF FOOTING IS LESS DRAINAGE WORKS AND FOR ALL SYDNEY WATER INSPECTIONS.
- 22. PIPING SHOWN FOR CLARITY ONLY, ACTUAL POSITION TO BE DETERMINED AND COORDINATED ON SITE.
- DISCREPANCIES TO THE SUPERINTENDENT.
- 24. HYDRAULIC DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND ENGINEERING DRAWINGS.
- EXISTING SERVICES PRIOR TO COMMENCING WORKS ON SITE.
- 26. DURING THE INSTALLATION, RECORD ALL CHANGES TO THE DESIGN DRAWINGS AND DIMENSION OF HIDDEN SERVICES PANEL ARE TO BE INSTALLED WHERE REQUIRED TO ACCESS CONTROL VALVES IN WATER LINES AS INSTALLED DRAWINGS AND ELECTRONIC FILES IN AUTOCAD DWG FORMAT ON CD.
- 27. PROVIDE THREE (3) SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL SYSTEMS. THE MANUALS SHALL INCLUDE A BRIEF DESCRIPTION OF EACH SERVICE AND DETAILS OF ALL EQUIPMENT WARRANTIES AND MAINTENANCE PROCEDURES ASSOCIATED WITH THAT SERVICE. THE AS INSTALLED DRAWINGS AND ELECTRONIC FILES ARE TO BE
- 28. ALL PIPEWORK AND ASSOCIATED VALVES AND EQUIPMENT WHICH ARE TO BE INSTALLED IN EXISTING BUILDING/S AND PENETRATING THROUGH EXISTING STRUCTURE ARE TO BE APPROVED BY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- 29. FIT ALL SLEEVES AND FIRE COLLARS WHERE NECESSARY FOR PIPES PASSING THROUGH FIRE RATED STRUCTURE. PIPEWORK SHALL BE HIDDEN FROM VIEW BY INSTALLATION IN WALLS, CEILINGS OR BURYING IN GROUND. WHERE PIPEWORK CANNOT BE HIDDEN FROM VIEW. OBTAIN APPROVAL FROM THE SUPERINTENDENT PRIOR TO INSTALLATION

30. EXPOSED PIPEWORK SHALL BE PAINTED AND LABELLED WITH PIPE MARKERS IN ACCORDANCE WITH AS 1345 PIPEWORK IN GROUND SHALL BE PROVIDED WITH MARKING TAPE IN THE TRENCH INDICATING THE SERVICE AND DIRECTION OF FLOW IN ACCORDANCE WITH AS 2648

- 32. ALLOW TO CO-ORDINATE FINAL LOCATIONS OF ALL PIPEWORK & FOLIPMENT WITH STRUCTURE & OTHER SERVICE PRIOR TO MANUFACTURE & INSTALLATION.

- CONFORMITY WITH THE ARCHITECTURAL PLANS. HYDRAULIC DRAWINGS AND SPECIFICATIONS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE OF AUSTRALIA, LOCAL AUTHORITIES, AS 3500 AND OTHER RELEVANT AUSTRALIAN STANDARDS.
- THEIR ACCURACY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK
- WITH THE SITE. THE LOCATIONS & SIZES OF ALL EXISTING SERVICES AND THE EXTENT OF WORKS REQUIRED TO PROVIDE A COMPLETE, WORKING AND SERVICEABLE INSTALLATION BASED ON THE DRAWINGS, AND SITE CONSTRAINTS, VARIATIONS DUE TO OBVIOUS SITE CONSTRAINTS WILL NOT BE APPROVED
- 12. ALL FIXTURES ARE TO BE SUPPLIED AND INSTALLED BY THE HYDRAULICS SERVICES CONTRACTOR UNLESS SPECIFIED42. THE CONTRACTOR SHALL ALLOW FOR AND PAY ALL FEES AND OBTAIN ALL AUTHORITY CLEARANCES INCLUDING SYDNEY WATER COUNCIL AND GAS COMPANY
- 14. ALL FIXINGS SHALL BE PLUMB AND LEVEL AND NEATLY FINISHED IN A TRADESMAN LIKE MANNER AND WITHOUT44. PRESSURE PIPE 'BLUE BRUTE' CLASS 20 TO AS 2977 WITH RUBBER RING JOINTS AND DUCTILE IRON FITTINGS EXCEPT WHERE PIPEWORK RUNS UNDERSIDE OF THE BUILDING.
 - 46. PROVIDE APPROVED FIRE STOP COLLARS TO THE REQUIREMENTS OF THE BCA AND RELEVANT AUSTRALIAN
 - 47. DRAINS TO BE SUPPORTED ON OR FROM SOLID GROUND. LOCATION & DEPTH / INVERT LEVEL OF BRANCH SHALL BE

49. INSPECTION OPENINGS SHALL BE PROVIDED AT:

- 49.2. ON EACH WC OR BRANCH 49.3. AT MAX. 30m INTERVALS SPREAD EQUIDISTANT WHERE POSSIBLE
- 19. REFER TO SPECIFICATION FOR ADDITIONAL SPECIFICATION NOTES, WORK INSTRUCTIONS, MATERIAL SPECIFICATIONS 49.4. IMMEDIATELY UPSTREAM & DOWNSTREAM OF ALL JUMP-UPS 49.5. AS REQUIRED BY THE AUTHORITY FOR INSPECTION & MAINTENANCE
- 20. PIPE WORK SHALL BE CAPPED OFF AS WORK PROCEEDS TO PREVENT INGRESS OF DIRT, CONCRETE ETC. USE50. ALL SERVICES THAT CROSS PAVEMENTS, FOOTING ETC SHALL BE BACKFILLED WITH GRANULAR MATERIAL TO
 - 53. ON COMPLETION OF PIPE INSTALLATION. ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION INCLUDING: KERBS, FOOTPATH, CONCRETE AREAS, GRAVEL AREAS & ROAD PAVEMENTS.
 - OVER AUTHORITY SERVICES TELSTRA OR ELECTRICAL SERVICES, EXCAVATE BY HAND IN THESE AREAS 55. THE PLUMBING CONTRACTOR SHALL OBTAIN ALL AUTHORITY APPROVALS & PAY ALL FEES.
- 25. COORDINATE SERVICES WITH ALL OTHER TRADES AND WORKS ON SITE. THOROUGHLY INVESTIGATE THE EXTENT OF56. INVERT LEVELS SHOWN ARE INDICATIVE ONLY. CONFIRM ALL LEVELS ON SITE BEFORE COMMENCING INSTALLATION

FROM PERMANENT, VISIBLE LANDMARKS. AT THE COMPLETION OF THE WORKS PROVIDE THREE (3) SETS OF AS REQUIRED & INSPECTION OPENINGS ON STORMWATER & SEWER RISERS. ACCESS PANELS SHALL MATCH PROPOSED FINISH. REFER TO ARCHITECTURAL DRAWING FOR FINISHES.

Allow to obtain approval and pay all fees and charges to all authorities in relation to the proposed service installations as indicated on the drawings.

Allow to provide "as-built "drawings on Autocad dwg compatible file format together with 2-off paper copies before final payment.

Existing services are located within the site for which documentation is not

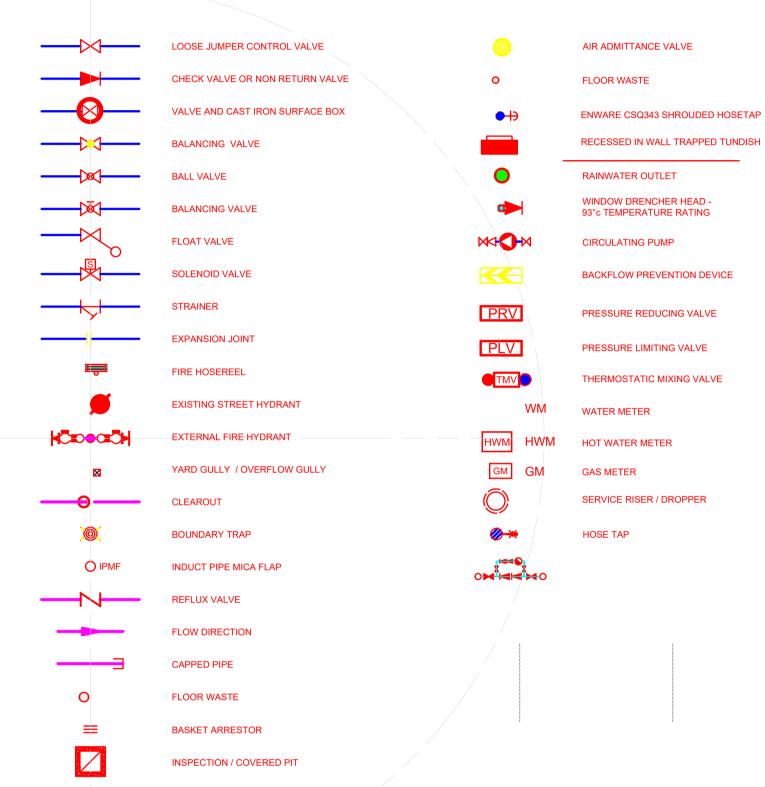
Services shown on this plan have been plotted from plans and by field These services and others that may exist may not be situated within registered easements or within standard footpath allocations.

It is the contractors responsibility to identify the locations of all services via electronic pipe locating prior to **ANY** construction works and to avoid disturbance of these services.

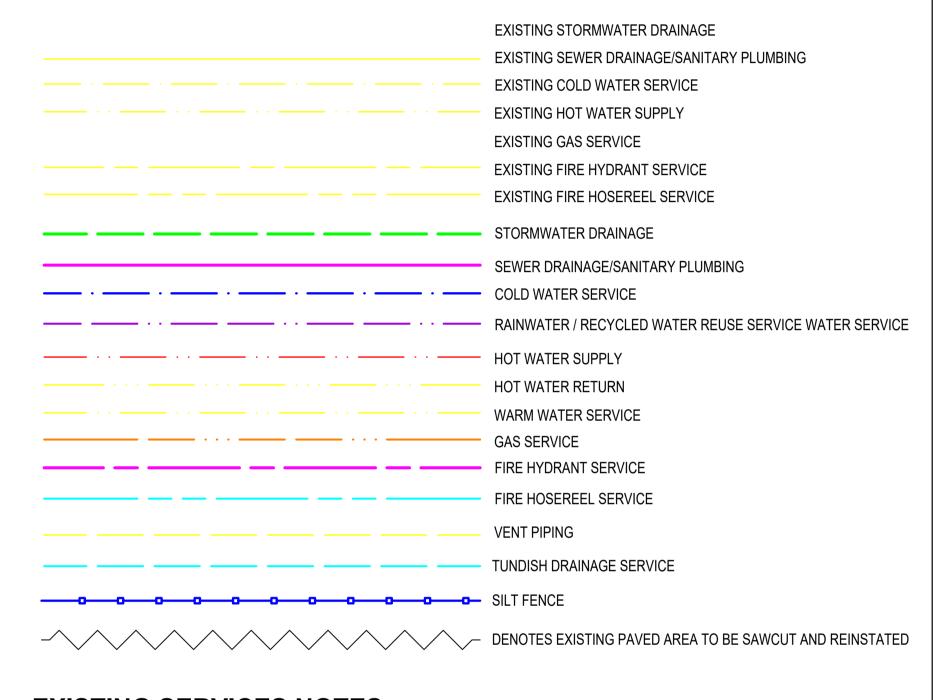
Allow to disconnect & cap off obsolete services at authority mains.

Contractor to provide work as executed plan prepared by a registered surveyor & provide certification that the stormwater drainage & detention system has been installed as per approved plans.

PIPELINE SYMBOL LEGEND



SERVICE LEGEND



EXISTING SERVICES NOTES

- 1. SERVICES SHOWN ON HYDRAULIC PLANS HAVE BEEN PLOTTED FROM PLANS AND BY FIELD INSPECTION. THESE SERVICES AND OTHERS MAY NOT BE SITUATED WITHIN REGISTERED EASEMENTS OR WITHIN STANDARD FOOTPATH ALLOCATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY THE LOCATIONS OF ALL SERVICES PRIOR TO CONSTRUCTION WORKS AND TO AVOID DISTURBANCE OF THESE SERVICES. THE CONTRACTOR IS ADVISED TO CONTACT THE 'DIAL BEFORE YOU DIG' SERVICE TO ASCERTAIN THE LOCATIONS OF ANY EXISTING AUTHORITY SERVICES.
- 2. THE HYDRAULIC SUBCONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF THEIR PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
- 3. HYDRAULIC SUBCONTRACTOR SHALL ALLOW TO CONSTRUCT NECESSARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDINGS REQUIRED TO REMAIN IN OPERATION TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL ALLOW TO REMOVE ALL TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT
- 4. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL OF SUPERINTENDENT FOR TIME OF INTERRUPTION.

Hydraulic design plans to be read in conjunction with architectural plans.

E Apr.19 DA Issue D Feb.19 DA Issue C Dec. 18 DA Issue G May. 20 DA Issue F Oct. 19 DA Issue REV DATE NOTATION/AMENDMENT DO NOT SCALE DRAWINGS. CHECK ALL DIMENSIONS ON SITE chitects | bathurst penrith sydney

23. ALL LEVELS AND DIMENSIONS SHOWN TO BE CHECKED ON SITE PRIOR TO COMMENCING ANY WORKS. REPORT ANY54. CARE SHALL BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION SHALL BE MADE



GRATED PIT

KERB INLET PIT

GRATED DRAIN

CONTROL PANEL

HYDRANT BOOSTER VALVE

CONTINUATION OF SERVICE

OVERFLOW RELIEF GULLY

CHECK VALVE/REFLUX VALVE

OR NON RETURN VALVE

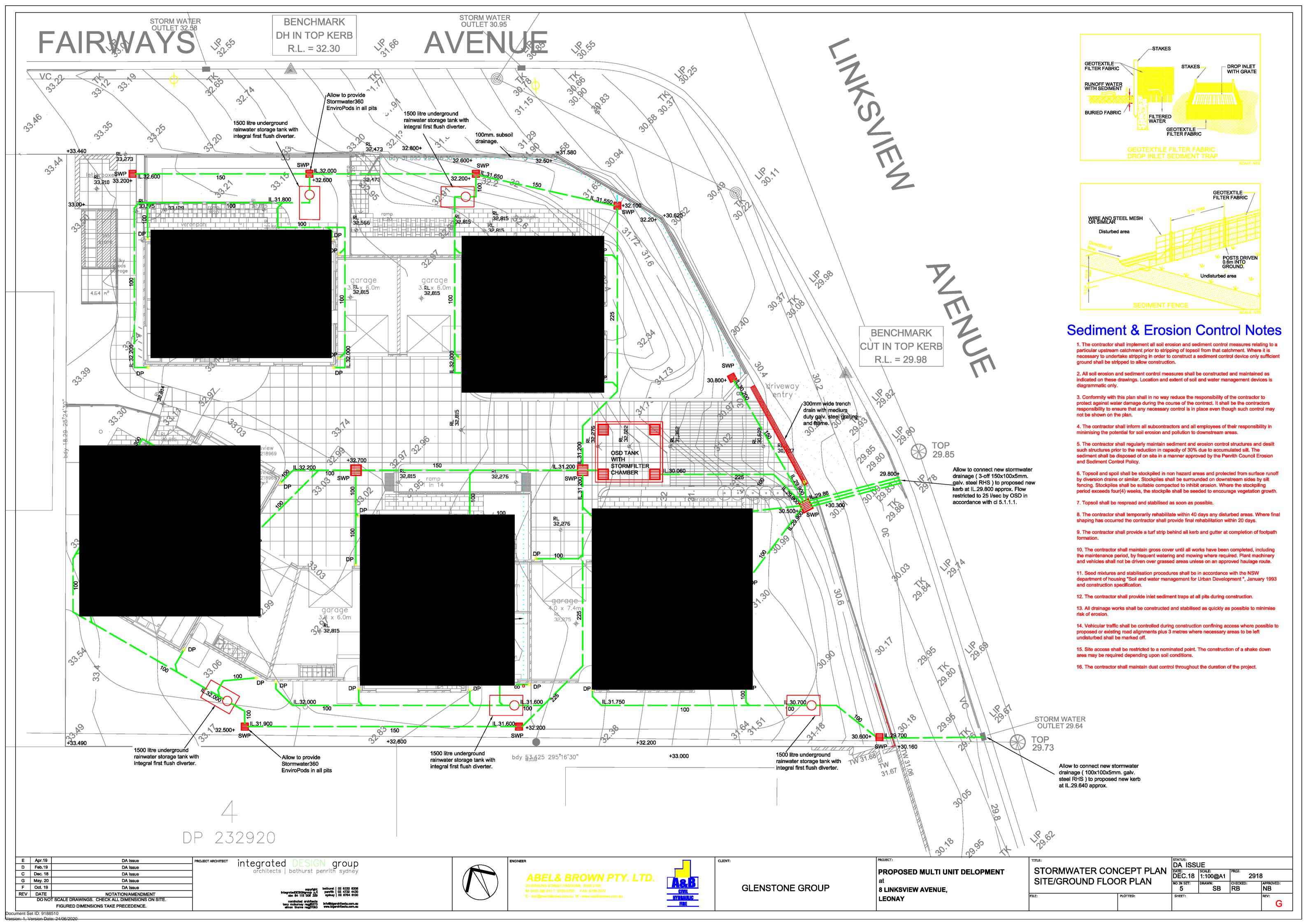
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PROPOSED MULTI UNIT DELOPMENT **8 LINKSVIEW AVENUE** LEONAY

STORMWATER CONCEPT PLAN **LEGEND & SERVICE NOTES**

DA ISSUE DEC.18 nts@A1 2918 IRB NB

FIGURED DIMENSIONS TAKE PRECEDENCE. Version: 1. Version Date: 24/06/2020







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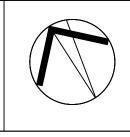
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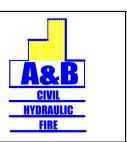
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PROPOSED MULTI UNIT DELOPMENT
at
8 LINKSVIEW AVENUE,
LEONAY

STORMWATER CONCEPT PLAN
DETAIL SHEET

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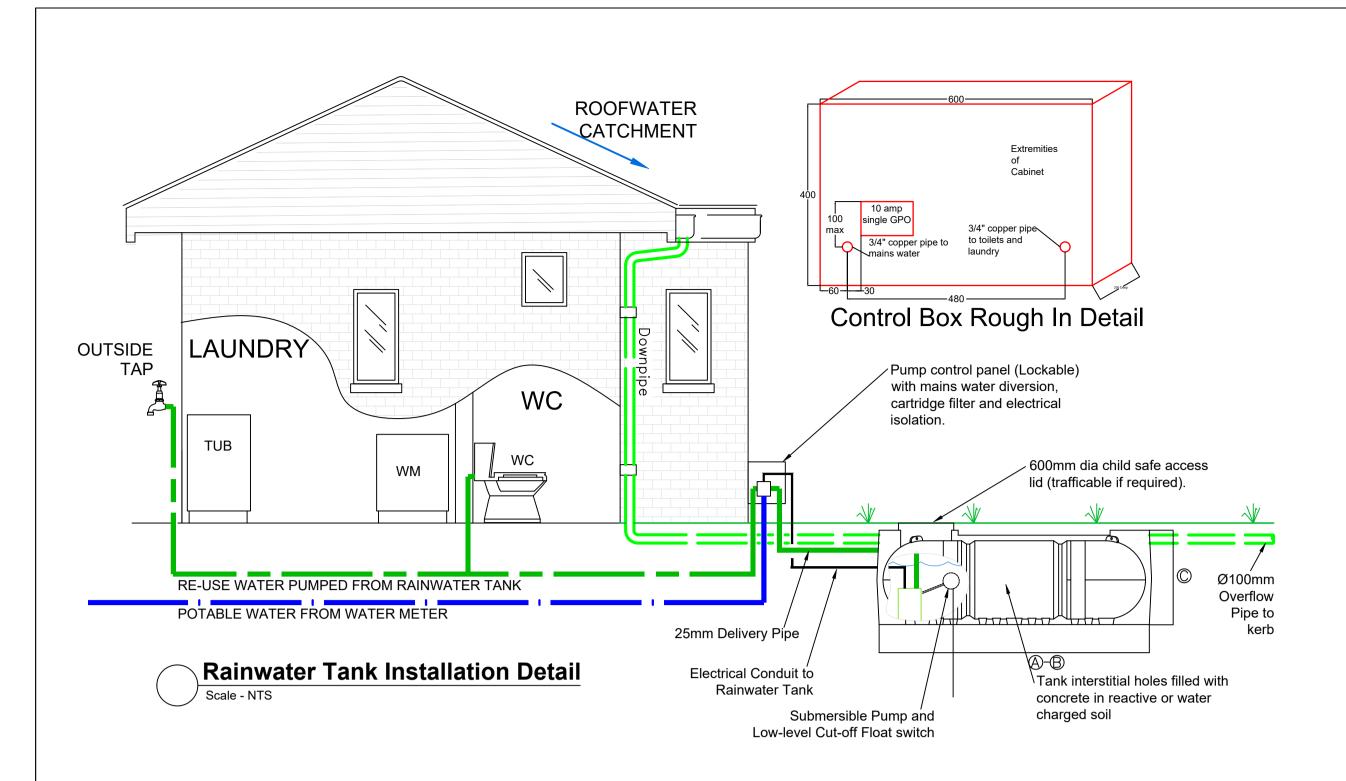
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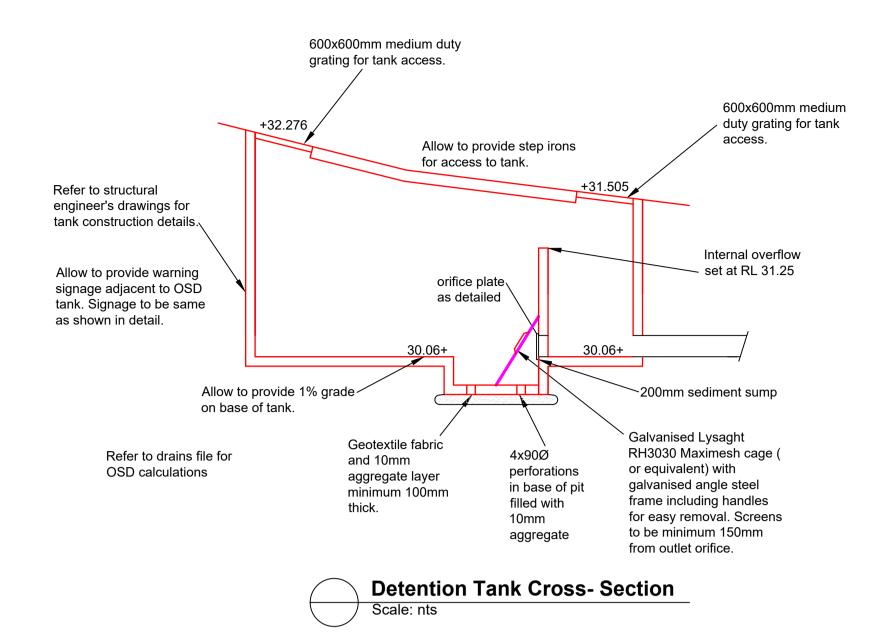
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OSD Maintenance Requirements

Maintenance Action	Frequency	Responsibility	Procedure		
Discharge Control Pit	Trequency	теороповину	Troccaire		
Inspect D walls for cracks or spalling	Annually	Maintenance Contractor	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls and repair as required.		
Inspect D sump & remove any sediment	Six monthly	Owner	Remove grate and screen. Remove sediment and check orifice and flap valve are clear.		
Inspect grate for damage or blockage	Six monthly	Owner	Check both sides of the grate for corrosion, damage or blockage.		
Inspect return pipe from storage & remove any blockage.	Six monthly	Owner	Remove grate and screen. Ventilate underground storage if present. Open flap valve and remove any blockages in return line. Check for any sediment on upstream side of return line.		
Inspect outlet pipe & remove any blockage	Six monthly	Maintenance Contractor	Remove grate and screen. Ventilate underground storage if present. Check orifice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge on upstream side of outlet pipe.		
Check step irons for corrosion	Annually	Maintenance Contractor	Remove grate. Examine step irons and repair any corrosion or damage.		
Check fixing of step irons is secure	Six monthly	Maintenance Contractor	remove grate and ensure fixings are secure prior to placing weight on step irons.		
Storage					
Inspect return pit & remove any sediment in pit.	Annually	Maintenance Contractor	Remove Grate. Remove built up sediment.		
Inspect internal return pit walls for cracks or spalling	Annually	Maintenance Contractor	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls and repair as required.		
Inspect and remove any debris blocking grates of pits.	Six monthly	Owner	Remove blockages from grate and check if pit is blocked.		



Rainwater Tank Installation requirements

Administrative requirement

The plumber is required to apply to Sydney Water for a permit to do the work as they would when connecting any house service plumbing.

Sydney Water's plumbing inspector must be contacted when work is completed to carry out a final inspection of the property before the Certificate of Compliance is submitted to Sydney Water and the customer.

Rainwater tank plumbing regulatory requirements

All plumbing work is to be done or supervised by a licensed plumber in compliance with these guidelines and the NSW Code of Practice: Plumbing and Drainage.

Under no circumstances is there to be direct connection between the rainwater service and the drinking water service.

Approved materials

Materials used in the rainwater tank plumbing must comply with AS/NZS 3500 Part 1 Water Supply Section 2 Materials and Products

Pipes and labelling

Pipe materials to be used for rainwater need to be approved products and be clearly and permanently identified 'RAINWATER' continuously along the length. This can be done for below ground pipes by using identification tape (made in accordance with A52648) or for above ground pipes by using adhesive pipe markers (made in accordance with A51345).

Identification tape marked 'RAINWATER' must be at least 75mm wide. The identification tape is to be installed on top of the rainwater pipeline, running longitudinally, and fastened to the pipe at not more than 3 metre intervals.

Every rainwater tank outlet must be labelled 'RAINWATER' on a permanent sign. An example is shown in Figure 2. A51319 provides direction as to appropriate layout, size and face materials for signs.

Proximity to other services

Proximity to other services

Rainwater pipes must be separated from any parallel drinking water service.

Above ground pipes

Any rainwater pipe installed above ground must be a minimum of 100mm away from any drinking water pipe.

Below ground pipes

Any rainwater pipe installed below ground must be a minimum of 300mm away from any drinking water pipe.

- Orifice plate beyond Handle – Steel plate clip welded Galvanised lysaght rh3030 maximesh to basket galvanised. cage (or equivalent) with galvanised Typical both sides angle steel frame including handles for easy removal. Screens to be minimum 150mm from outlet orifice. Retain Steel plate bracket screen in position with galvanised galvanised. Fixed to brackets at base and top of of screen. at wall with 2 loxins to eat clips into **Trash Rack Detail for OSD Basin** Scale - NTS

OSD Tank Signage



Colours

"DANGER" and background - White

Elliptical area - Red

Rectangle containing elipse - Black

- Black

Mimimum Size - 187.5 mm x 250mm

Other lettering and border

Orifice Plate to be fixed with non-corrosive fixings

Circular hole with sharp edged manufactured to 0.5mm accuracy.

Orifice Plate Detail for OSD

Scale: 1:5

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PROPOSED MULTI UNIT DELOPMENT at 8 LINKSVIEW AVENUE,

LEONAY

STORMWATER CONCEPT PLAN
DETAIL SHEET

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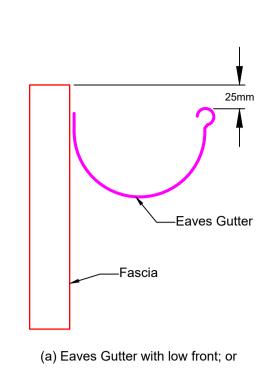
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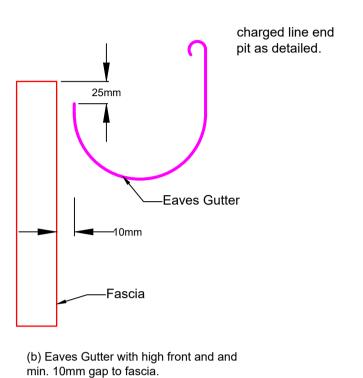
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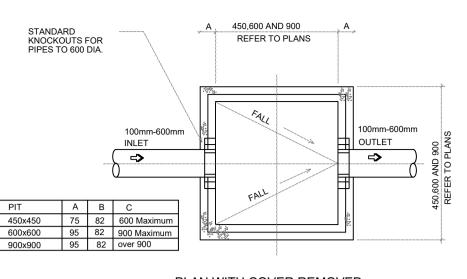
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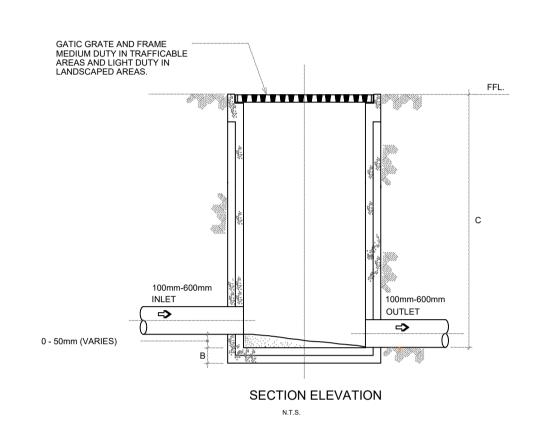
EAVES GUTTER OVERFLOW DETAIL

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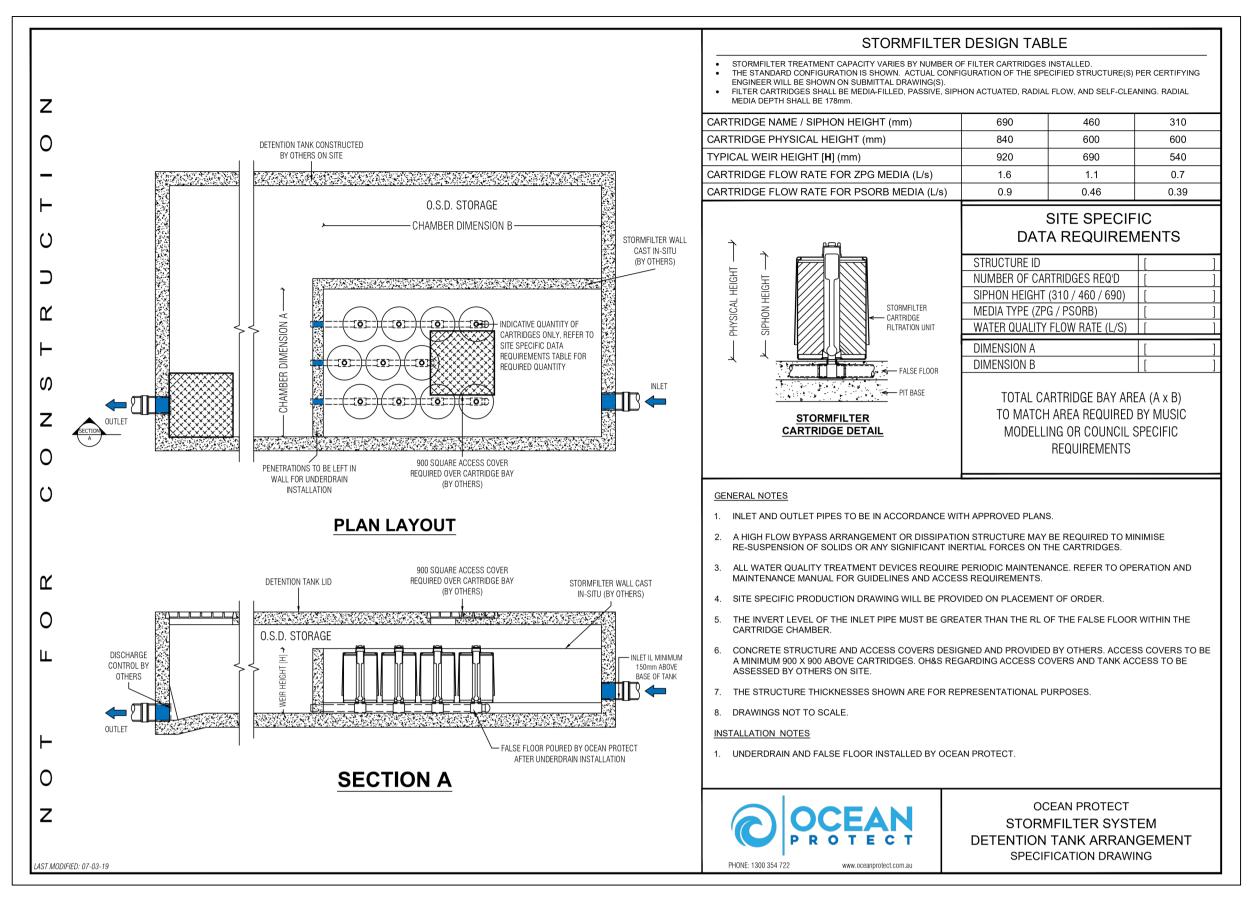


PLAN WITH COVER REMOVED

450,600 AND 900 SQ.
PRECAST CONCRETE STORMWATER SUMPS



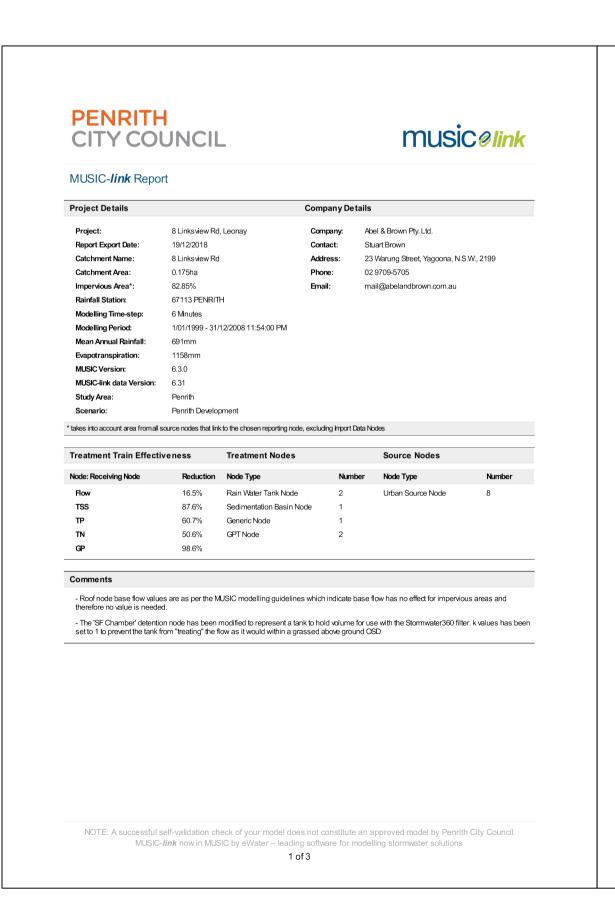




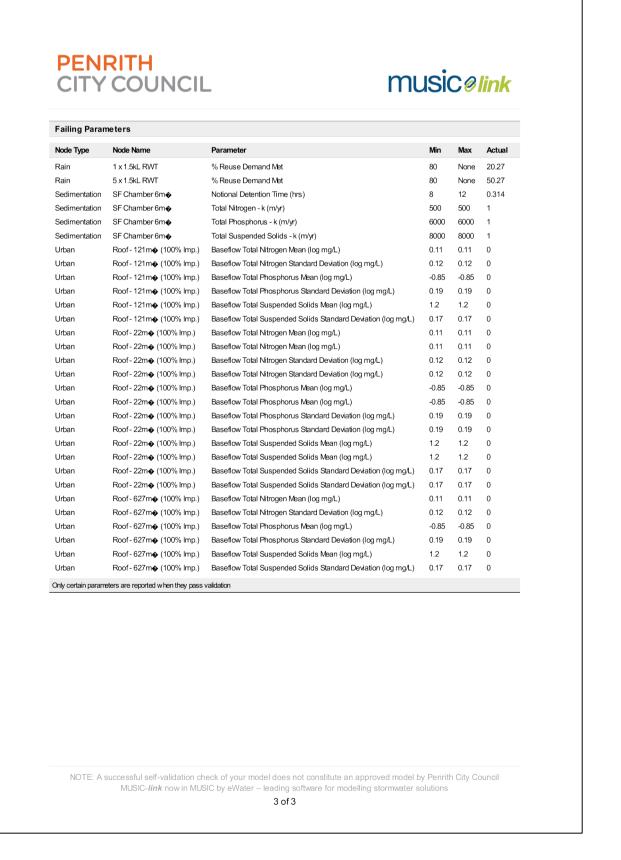


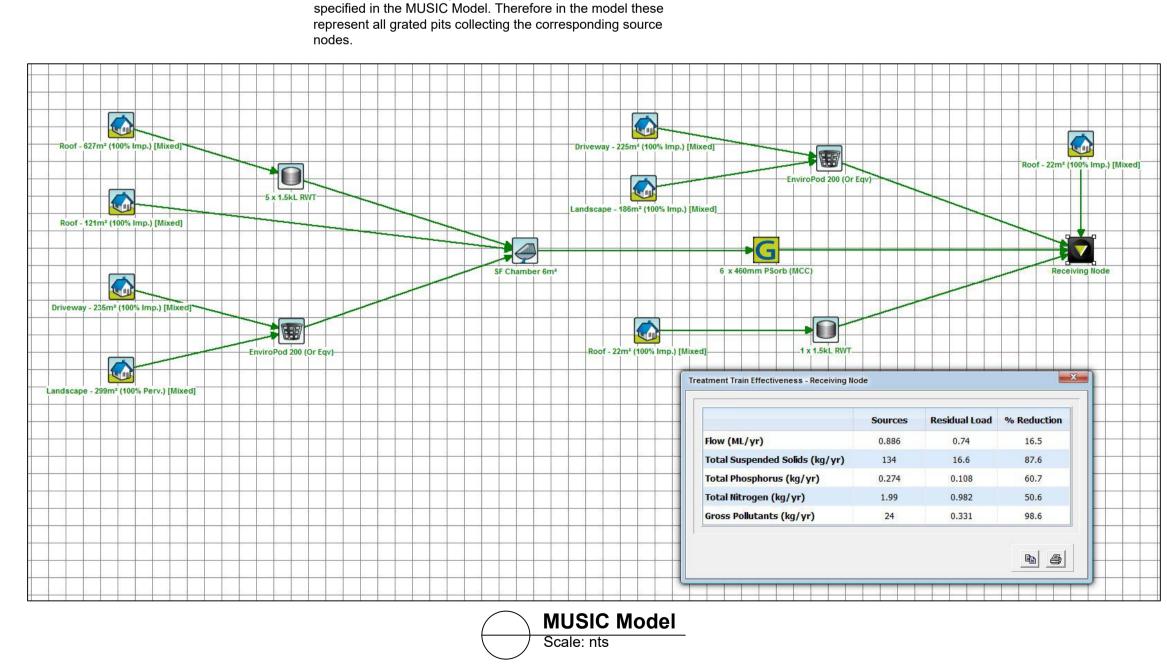
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