

# PROPOSED MEETING HALL

## LOT 12, CNR. FORESTWOOD DVE. & BRADLEY ST.,

### GLENMORE PARK

STORMWATER CONCEPT  
NOT FOR CONSTRUCTION

#### PIPELINE SYMBOL LEGEND

##### HYDRAULIC SERVICES NOTES & PROJECT REQUIREMENTS

- THE CONTRACTOR SHALL READ AND FULLY FAMILIARISE THEMSELVES WITH THE HYDRAULIC PLANS, HYDRAULIC SPECIFICATION DOCUMENTS, AUSTRALIAN STANDARDS, AND AUTHORITY REQUIREMENTS APPLICABLE TO THE WORKS. CLAIMS DUE TO IGNORANCE OF THE CONTENTS OF HYDRAULIC SERVICES DOCUMENTS AND / OR REQUIREMENTS OF AUSTRALIAN STANDARDS 31, AUTHORITY REQUIREMENTS WILL NOT BE ENTERED INTO.
- 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 RELATIVE TO THE WORKS TO BE CARRIED OUT. CLAIMS DUE TO IGNORANCE OF EXISTING SITE CONDITIONS WILL NOT BE ENTERED INTO.
- THE HYDRAULIC SERVICES DRAWINGS AND SPECIFICATION SET OUT THE PROJECT REQUIREMENTS TO BE MET OVER AND ABOVE THE MINIMUM STANDARDS AS SET OUT BY THE RELEVANT AUSTRALIAN STANDARD APPLICABLE TO THAT SERVICE. THE CONTRACTOR SHALL MAKE DUE ALLOWANCE IN THEIR TENDER, AND WARRANTS THAT THEY HAVE MADE DUE ALLOWANCE FOR ALL REQUIREMENTS NECESSARY FOR THE EXECUTION OF THE WORKS IN ACCORDANCE WITH THE STANDARDS AS SET OUT BY THE RELEVANT AUSTRALIAN STANDARD APPLICABLE TO THAT SERVICE, THE RELEVANT LOCAL AUTHORITY REQUIREMENTS AND FOR THOSE REQUIREMENTS AS SET OUT IN THE HYDRAULIC SERVICES DRAWINGS AND THE ACCOMPANYING SPECIFICATION.
- HYDRAULIC SERVICES DRAWINGS ARE TO BE READ IN CONJUNCTION WITH HYDRAULIC SERVICES SPECIFICATION AND DRAWINGS OF ALL OTHER DISCIPLINES FOR THIS PROJECT. IGNORANCE OF THE CONTENTS OF ANY DOCUMENTS RELATIVE TO THE PROJECT SHALL NOT PROVIDE A BASIS FOR ANY VARIATION TO THE CONTRACT.
- ALLOW TO OBTAIN ALL APPROVALS AND PAY ALL FEES AND CHARGES TO ALL AUTHORITIES IN RELATION TO THE 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.
- ALL WORK BE CARRIED OUT IN ACCORDANCE WITH WATER & SEWER AUTHORITY REGULATIONS, SUPERINTENDENT APPROVAL & HYDRAULIC SPECIFICATION.
- LOCATION OF FIXTURES SHALL BE IN ACCORDANCE WITH LATEST ARCHITECTURAL DRAWINGS.
- WIRING OF HWLUS AND GPOIS FOR BOILING / CHILLED WATER UNIT BY ELECTRICAL CONTRACTOR.
- LIAISE WITH BUILDING SUPERINTENDENT TO ARRANGE SHUTDOWN AND ASSOCIATED WORKS.
- 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 TO INSPECTION BY THE SUPERINTENDENT. ALL TO BE VANDAL PROOF.
- ALL FIXTURES ARE TO BE SUPPLIED AND INSTALLED BY THE HYDRAULICS SERVICES CONTRACTOR UNLESS SPECIFIED OTHERWISE.
- ON COMPLETION OF THE INSTALLATION ALLOW TO TEST THE FIXTURES FOR NORMAL OPERATION AND ADJUST AS NECESSARY.
- ALL FIXINGS SHALL BE PLUMB AND LEVEL AND NEATLY FINISHED IN A TRADESMAN LIKE MANNER AND WITHOUT DAMAGE.
- PROVIDE ALL MATERIALS AND LABOUR NECESSARY TO PROVIDE A COMPLETE, WORKING AND SERVICEABLE INSTALLATION BASED ON THE DRAWINGS, SPECIFICATION COORDINATION WITH THE STRUCTURE AND OTHER SERVICES PLUS ANY RELEVANT AUSTRALIAN STANDARDS.
- ALL MATERIALS USED IN THE WORK SHALL BE NEW AND OF THE BEST QUALITY AND TYPE AVAILABLE TO CONFORM WITH THE RELEVANT AUSTRALIAN STANDARDS AND BEAR THE REQUIRED STANDARDS MARK.
- FOR ALL PLUMBING AND DRAINAGE WORKS, AN APPLICATION SHALL BE LODGED AS REQUIRED BY THE SYDNEY 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 THE CERTIFICATE OF COMPLIANCE.
- ANY DAMAGE TO SERVICES DURING CONSTRUCTION SHALL REPAIRED IMMEDIATELY AT THE CONTRACTORS OWN EXPENSE.
- REFER TO SPECIFICATION FOR ADDITIONAL SPECIFICATION NOTES, WORK INSTRUCTIONS, MATERIAL SPECIFICATIONS & STANDARDS.
- PIPE WORK SHALL BE CAPPED OFF AS WORK PROCEEDS TO PREVENT INGRESS OF DIRT, CONCRETE ETC. USE PROPRIETARY CAPS / PLUGS.
- ALLOW TO MAKE APPLICATION & PAY ALL FEES TO SYDNEY WATER TO OBTAIN A PERMIT TO UNDERTAKE PLUMBING & DRAINAGE WORKS AND FOR ALL SYDNEY WATER INSPECTIONS.
- PIPING SHOWN FOR CLARITY ONLY, ACTUAL POSITION TO BE DETERMINED AND COORDINATED ON SITE.
- ALL LEVELS AND DIMENSIONS SHOWN TO BE CHECKED ON SITE PRIOR TO COMMENCING ANY WORKS. REPORT ANY DISCREPANCIES TO THE SUPERINTENDENT.
- HYDRAULIC DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND ENGINEERING DRAWINGS.
- COORDINATE SERVICES WITH ALL OTHER TRADES AND WORKS ON SITE. THOROUGHLY INVESTIGATE THE EXTENT OF EXISTING SERVICES PRIOR TO COMMENCING WORKS ON SITE.
- DURING THE INSTALLATION, RECORD ALL CHANGES TO THE DESIGN DRAWINGS AND DIMENSION OF HIDDEN SERVICES FROM PERMANENT, VISIBLE LANDMARKS. AT THE COMPLETION OF THE WORKS PROVIDE THREE (3) SETS OF AS INSTALLED DRAWINGS AND ELECTRONIC FILES IN AUTOCAD DWG FORMAT ON CD.
- 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 INCLUDED IN THE MANUALS.
- ALL PIPEWORK AND ASSOCIATED VALVES AND EQUIPMENT WHICH ARE TO BE INSTALLED IN EXISTING BUILDINGS AND PENETRATING THROUGH EXISTING STRUCTURE ARE TO BE APPROVED BY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- 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.

- 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 2646.
- TEST ALL SYSTEMS AS REQUIRED BY THE LOCAL AUTHORITIES AND RELEVANT AUSTRALIAN STANDARDS.
- ALLOW TO CO-ORDINATE FINAL LOCATIONS OF ALL PIPEWORK & EQUIPMENT WITH STRUCTURE & OTHER SERVICES PRIOR TO MANUFACTURE & INSTALLATION.
- ALLOW TO ACOUSTICALLY INSULATE ALL SANITARY & STORM WATER DRAINAGE INSTALLED IN ABOVE SOUND SENSITIVE AREAS ie. BEDROOMS, LIVING AREAS IN ACCORDANCE WITH THE BCA OR THE ACOUSTIC REPORT IF AVAILABLE.
- UNLESS OTHERWISE SPECIFIED, CORE HOLES ARE TO BE SLAB SEAL OR SIMILAR.
- WHERE PASSING THROUGH ROOF THE PIPES SHALL BE FLASHED IN AN APPROVED MANNER LEAVING THE ROOF WATER TIGHT. UNLESS OTHERWISE SPECIFIED ON NON-TRAFFICABLE ROOFS THE VENT SHALL TERMINATE A MINIMUM OF 300mm ABOVE ROOF AND ON TRAFFICABLE ROOFS THE VENTS SHALL TERMINATE 3000mm ABOVE ROOF.
- REFER TO ARCHITECTS PLANS FOR EXACT LOCATION & SET OUT OF PLUMBING FIXTURES & FITTINGS.
- ALL WORK SHALL BE CARRIED OUT BY AND UNDER THE SUPERVISION OF A LICENSED PLUMBER IN STRICT 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.
- WORK IS TO BE CARRIED OUT TO THE SATISFACTION OF THE PROJECT MANAGER.
- EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA, THE SUPERINTENDENT DOES NOT GUARANTEE THEIR ACCURACY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK.
- UPON SIGNING THE CONTRACT, THE CONTRACTOR IS DEEMED TO HAVE VISITED SITE AND FAMILIARISED THEMSELVES 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.
- HYDRAULIC SERVICES CONTRACTOR SHALL PROVIDE A CERTIFICATE OF COMPLIANCE UPON COMPLETION OF WORKS FOR ALL SERVICES INSTALLED.
- THE CONTRACTOR SHALL ALLOW FOR AND PAY ALL FEES AND OBTAIN ALL AUTHORITY CLEARANCES INCLUDING SYDNEY WATER, COUNCIL AND GAS COMPANY.
- ALL PIPE PENETRATIONS AT WALLS SHALL BE FITTED WITH A PUDDLE FLANGE AND ALL WALL PENETRATIONS SHALL BE MADE GOOD AND WATER TIGHT.
- 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.
- CAP OFF ALL REDUNDANT SERVICES AT THE AUTHORITY MAIN, ARRANGE INSPECTION WITH THE AUTHORITY PRIOR TO BACK FILLING AND MAKING GOOD THE SURFACE. PAY ALL ASSOCIATED FEES AND CHARGES.
- PROVIDE APPROVED FIRE STOP COLLARS TO THE REQUIREMENTS OF THE BCA AND RELEVANT AUSTRALIAN STANDARDS.
- DRAINS TO BE SUPPORTED ON OR FROM SOLID GROUND. LOCATION & DEPTH / INVERT LEVEL OF BRANCH SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK.
- REUSED DRAINS UNDER BUILDINGS SHALL BE RETESTED WHERE DIRECTED BY SUPERINTENDENT.
- INSPECTION OPENINGS SHALL BE PROVIDED AT:
  - THE PROPERTY BOUNDARY
  - ON EACH WC OR BRANCH
  - AT MAX. 30m INTERVALS SPREAD EQUIDISTANT WHERE POSSIBLE
  - IMMEDIATELY UPSTREAM & DOWNSTREAM OF ALL JUMP-UPS
  - AS REQUIRED BY THE AUTHORITY FOR INSPECTION & MAINTENANCE
- ALL SERVICES THAT CROSS PAVEMENTS, FOOTING ETC SHALL BE BACKFILLED WITH GRANULAR MATERIAL TO SUBGRADE LEVEL & COMPACTED TO 95% M.M.D.D.
- PROVIDE 80mm COMPRESSIBLE MATERIAL OVER PIPEWORK WHERE CLEARANCE TO UNDERSIDE OF FOOTING IS LESS THAN 150mm UNLESS NOTED OTHERWISE.
- ON COMPLETION OF PIPE INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION INCLUDING: KERBS, FOOTPATH, CONCRETE AREAS, GRAVEL AREAS & ROAD PAVEMENTS.
- CARE SHALL BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION SHALL BE MADE OVER AUTHORITY SERVICES, TELSTRA OR ELECTRICAL SERVICES. EXCAVATE BY HAND IN THESE AREAS.
- THE PLUMBING CONTRACTOR SHALL OBTAIN ALL AUTHORITY APPROVALS & PAY ALL FEES.
- INVERT LEVELS SHOWN ARE INDICATIVE ONLY. CONFIRM ALL LEVELS ON SITE BEFORE COMMENCING INSTALLATION WORK.
- ACCESS PANEL ARE TO BE INSTALLED WHERE REQUIRED TO ACCESS CONTROL VALVES IN WATER LINES AS REQUIRED & INSPECTION OPENINGS ON STORMWATER & SEWER RISERS. ACCESS PANELS SHALL MATCH PROPOSED FINISH. REFER TO ARCHITECTURAL DRAWING FOR FINISHES.

#### Note

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 available.

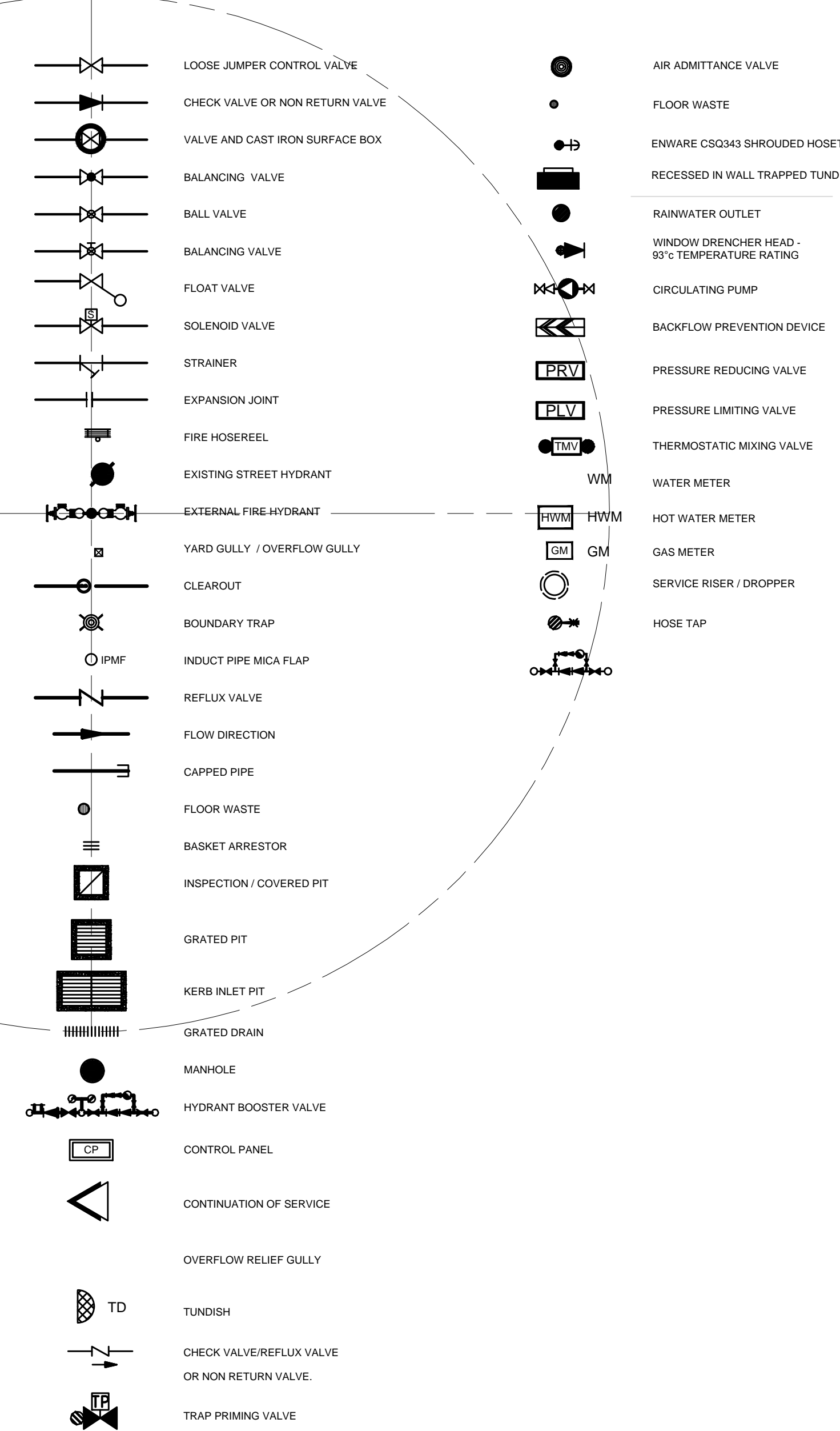
Services shown on this plan have been plotted from plans and by field. These services and others that may exist may not be situated within registered easements or within standard footpath allocations.

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.

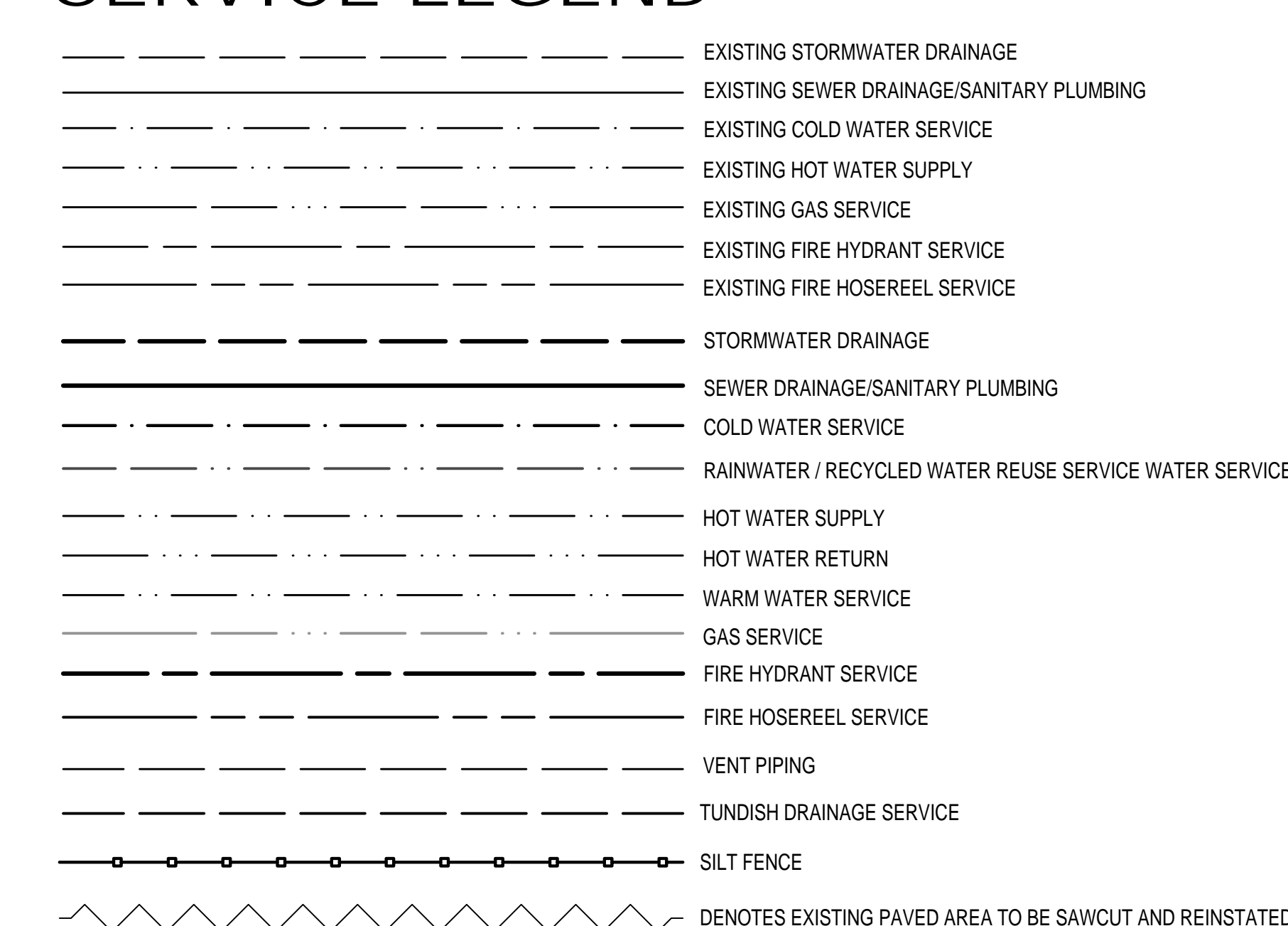
Allow to disconnect & cap off obsolete services at authority mains.

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

- 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.
- 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.
- 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 COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL ALLOW TO REMOVE ALL TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- 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.

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

REV	DATE	NOTATION/AMENDMENT
B	Oct.19	DA Issue
A	Oct.19	Coordination Issue
DO NOT SCALE DRAWINGS. CHECK ALL DIMENSIONS ON SITE. FIGURED DIMENSIONS TAKE PRECEDENCE.		

PROJECT ARCHITECT

The Design & Documentation Specialists

ENGINEER

**ABEL & BROWN PTY. LTD.**  
23 WARUNG STREET, YAGOONA, NSW 2199  
M: 0403 390 810 T: 9709-5705 FAX: 9796-2272  
E - mail@nevillebrown.com.au W - www.nevillebrown.com.au

CLIENT:

KINGSWOOD GOSPEL TRUST

PROJECT:

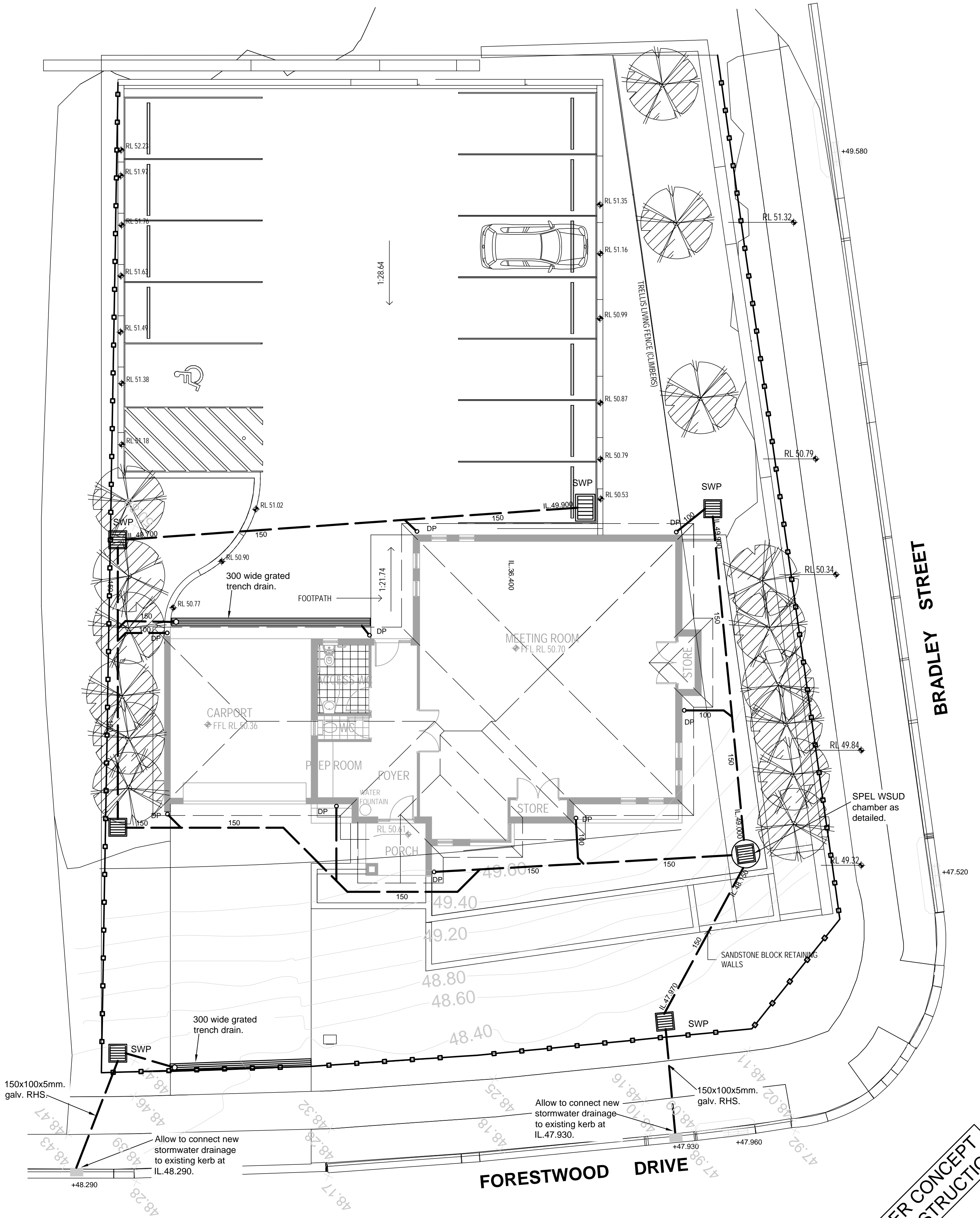
PROPOSED MEETING HALL  
at  
LOT 12, CNR. FORESTWOOD DVE & BRADLEY ST.  
GLENMORE PARK

TITLE:

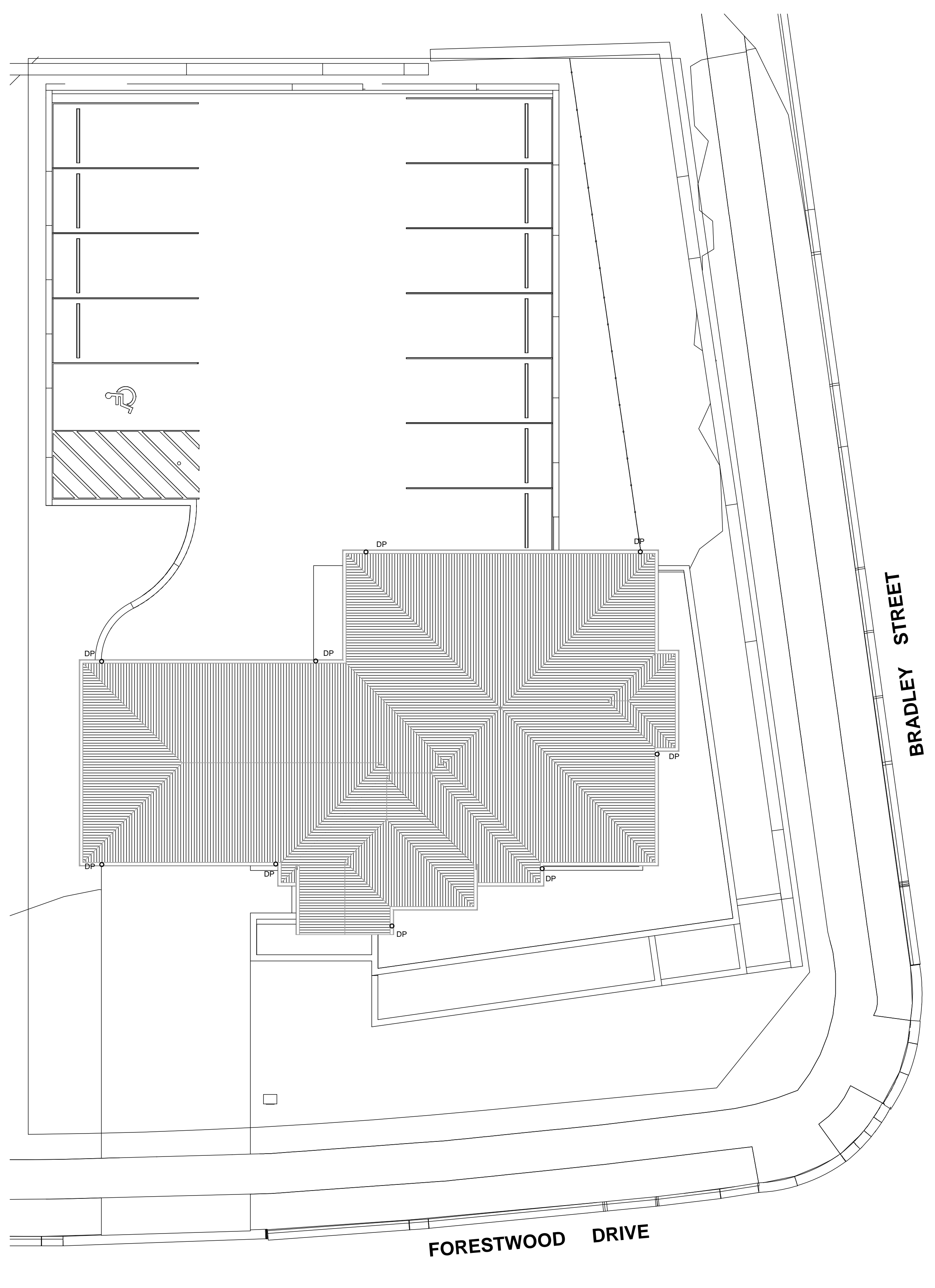
STORMWATER CONCEPT PLAN  
LEGEND & SERVICE NOTES

STATUS:	DATE:	SCALE:	PROJ:
DA ISSUE	OCT.19	1:1	3029
NO. OF SETS:	DRAWN:	CHECKED:	APPROVED:
3	SB	RB	NB
SHEET:	FILE:	PLOTTED:	REV:
H-01			B





**SITE / GROUND FLOOR PLAN**



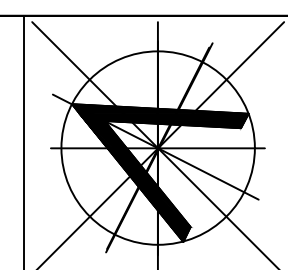
**ROOF PLAN**

**STORMWATER CONCEPT  
NOT FOR CONSTRUCTION**

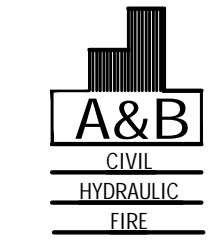


REV	DATE	NOTATION/AMENDMENT
B	Oct 19	DA Issue
A	Oct 19	Coordination Issue
		NOTATION/AMENDMENT
DO NOT SCALE DRAWINGS. CHECK ALL DIMENSIONS ON SITE. FIGURED DIMENSIONS TAKE PRECEDENCE.		

PROJECT ARCHITECT



ENGINEER  
**ABEL & BROWN PTY. LTD.**  
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CLIENT:  
**KINGSWOOD GOSPEL TRUST**

PROJECT:  
**PROPOSED MEETING HALL  
at  
LOT 12, CNR. FORESTWOOD DVE & BRADLEY ST.  
GLENMORE PARK**

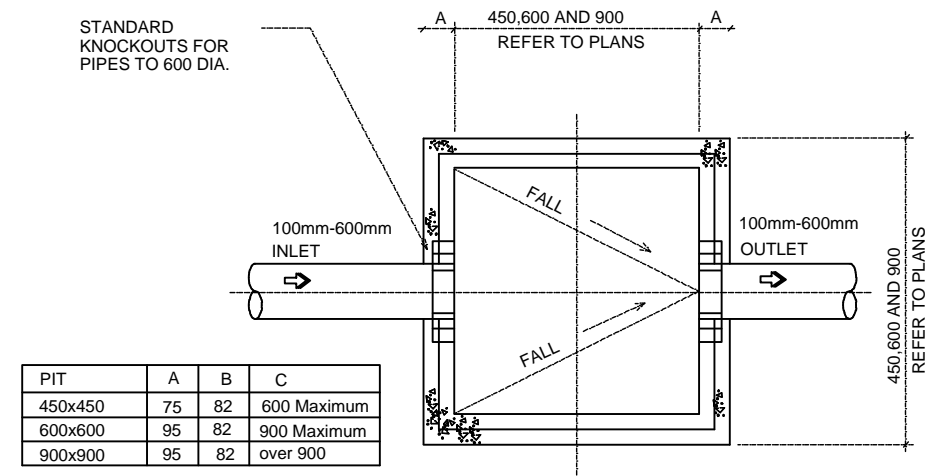
TITLE:  
**STORMWATER CONCEPT PLAN  
GROUND / SITE PLAN**

STATUS	DA ISSUE
DATE	OCT.19
SCALE	as shown
PROJ.	3029
NO IN SET	3
DRAWN	SB
CHECKED	RB
APPROVED	NB
FILE	
FLOTTED	
SHEET	H-02
REV	B

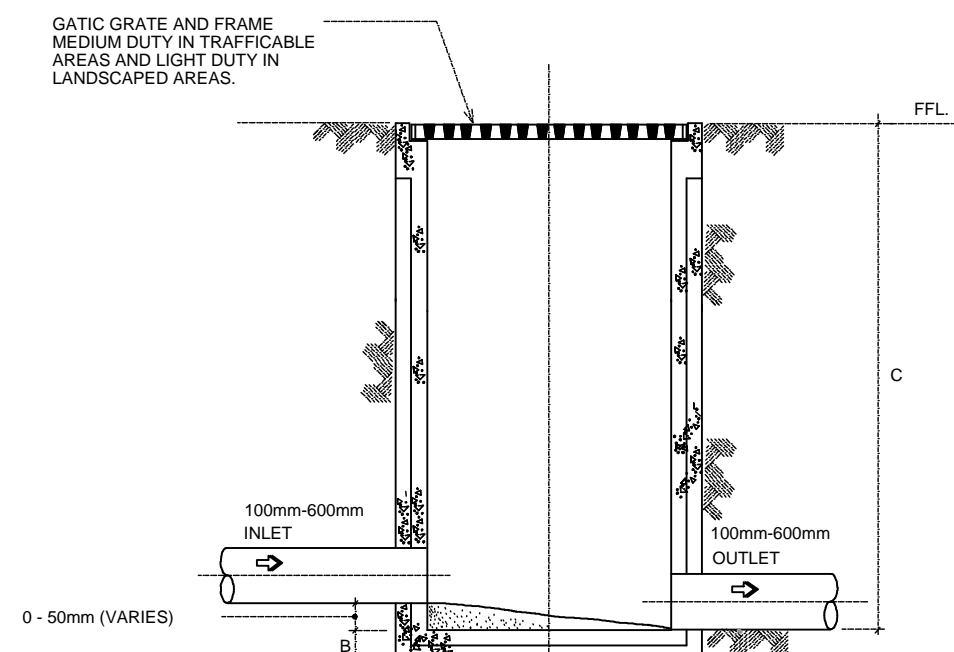


# Sediment & Erosion Control Notes

- The contractor shall implement all soil erosion and sediment control measures relating to a particular upstream catchment prior to stripping of topsoil from that catchment. Where it is necessary to undertake stripping in order to construct a sediment control device only sufficient ground shall be stripped to allow construction.
- All soil erosion and sediment control measures shall be constructed and maintained as indicated on these drawings. Location and extent of soil and water management devices is diagrammatic only.
- Conformity with this plan shall in no way reduce the responsibility of the contractor to protect against water damage during the course of the contract. It shall be the contractors responsibility to ensure that any necessary control is in place even though such control may not be shown on the plan.
- The contractor shall inform all subcontractors and all employees of their responsibility in minimising the potential for soil erosion and pollution to downstream areas.
- The contractor shall regularly maintain sediment and erosion control structures and desilt such structures prior to the reduction in capacity of 30% due to accumulated silt. The sediment shall be disposed of on site in a manner approved by the Penrith Council Erosion and Sediment Control Policy.
- Topsoil and spoil shall be stockpiled in non hazardous areas and protected from surface runoff by diversion drains or similar. Stockpiles shall be surrounded on downstream sides by silt fencing. Stockpiles shall be suitable compacted to inhibit erosion. Where the stockpiling period exceeds four(4) weeks, the stockpile shall be seeded to encourage vegetation growth.
- Topsoil shall be respread and stabilised as soon as possible.
- The contractor shall temporarily rehabilitate within 40 days any disturbed areas. Where final shaping has occurred the contractor shall provide final rehabilitation within 20 days.
- The contractor shall provide a turf strip behind all kerb and gutter at completion of footpath formation.
- The contractor shall maintain gross cover until all works have been completed, including the maintenance period, by frequent watering and mowing where required. Plant machinery and vehicles shall not be driven over grassed areas unless on an approved haulage route.
- Seed mixtures and stabilisation procedures shall be in accordance with the NSW department of housing "Soil and water management for Urban Development", January 1993 and construction specification.
- The contractor shall provide inlet sediment traps at all pits during construction.
- All drainage works shall be constructed and stabilised as quickly as possible to minimise risk of erosion.
- Vehicular traffic shall be controlled during construction confining access where possible to proposed or existing road alignments plus 3 metres where necessary areas to be left undisturbed shall be marked off.
- Site access shall be restricted to a nominated point. The construction of a shake down area may be required depending upon soil conditions.
- The contractor shall maintain dust control throughout the duration of the project.

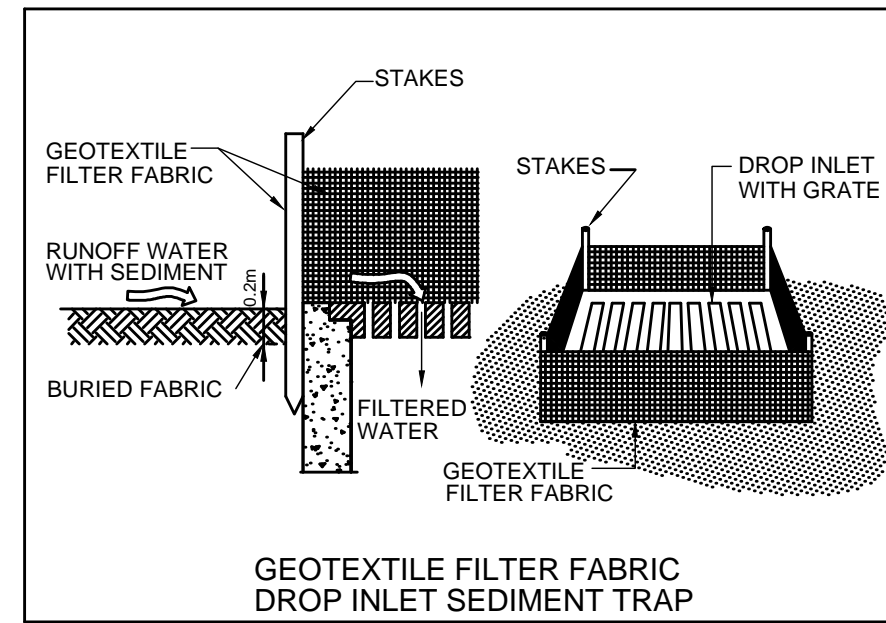


PLAN WITH COVER REMOVED  
450,600 AND 900 SQ.  
PRECAST CONCRETE STORMWATER SUMPS



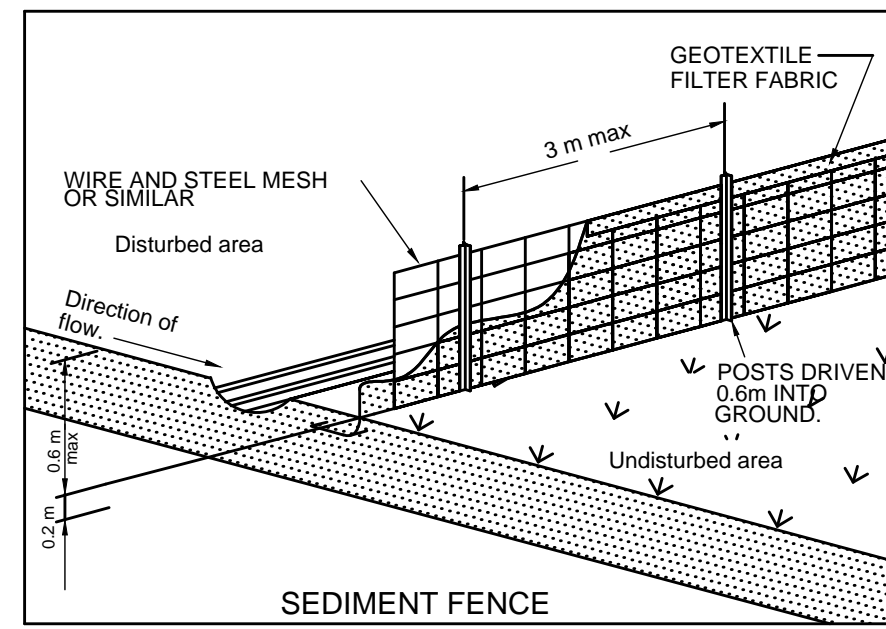
SECTION ELEVATION  
N.T.S.

**STORMWATER PIT DETAIL**  
Scale: NTS



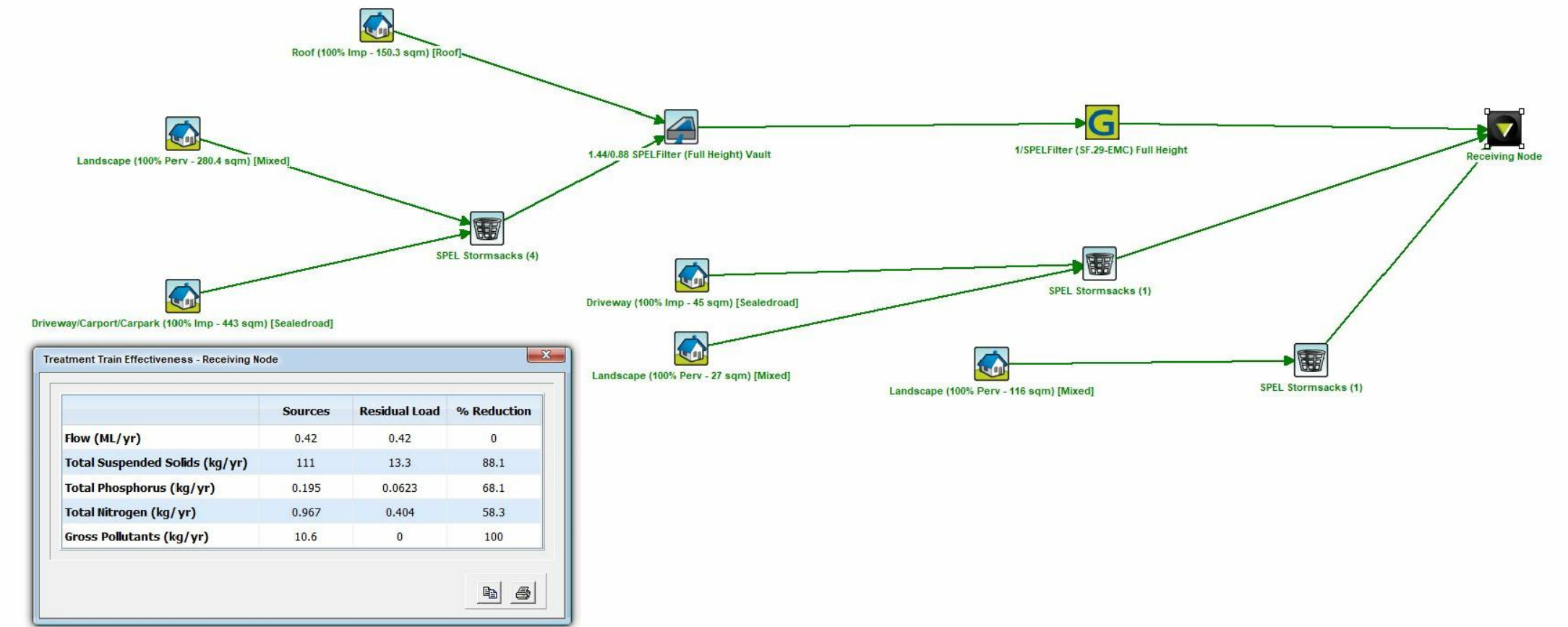
GEOTEXTILE FILTER FABRIC  
DROP INLET SEDIMENT TRAP

SCALE: NTS



SEDIMENT FENCE

SCALE: NTS



**MUSIC Model Results**  
Scale: NTS

PENRITH CITY COUNCIL

music@link

**MUSIC-link Report**

Project Details		Company Details	
Project:	19632 - 12 Forestwood Drv, Glenmore Park	Company:	Abel & Brown Pty Ltd.
Report Export Date:	01/11/2019	Contact:	Stuart Brown
Catchment Name:	19632 Forestwood A	Address:	23 Warung Street, YAGOONA, N.S.W.
Catchment Area:	0.107ha	Phone:	(02) - 9709-5705
Impervious Area:	59.81%	Email:	stuart@abelandbrown.com.au
Rainfall Station:	07113 PENRITH		
Modeling Time-step:	6 Minutes		
Modeling Period:	10/1/1999 - 31/12/2008 11:54:00 PM		
Mean Annual Rainfall:	691mm		
Evapotranspiration:	1158mm		
MUSIC Version:	6.3.0		
MUSIC-link data Version:	6.32		
Study Area:	Penrith		
Scenario:	Penrith Development		

\*Take into account area from source nodes that link to the chosen reporting node, excluding Import Data Nodes

Treatment Train Effectiveness		Treatment Nodes		Source Nodes	
Node:	Receiving Node	Reduction	Node Type	Number	Node Type
Flow		0.00347%	Detention Basin Node	1	Urban Source Node
TSS		88.3%	Generic Node	1	
TP		68.7%	GPT Node	2	
TN		58.6%			
GP		100%			

Comments  
SPEL Filter under MCP data

NOTE: A successful self-validation check of your model does not constitute an approved model by Penrith City Council  
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**Passing Parameters**

Node Type	Node Name	Parameter	Min	Max	Actual
GPT	SPEL Stormsacks (1)	H-flow bypass rate (cum/sec)	None	99	0.011
GPT	SPEL Stormsacks (4)	H-flow bypass rate (cum/sec)	None	99	0.044
Receiving	Receiving Node	% Load Reduction	None	None	0.00347
Receiving	Receiving Node	GP % Load Reduction	90	None	100
Receiving	Receiving Node	TN % Load Reduction	45	None	58.6
Receiving	Receiving Node	TP % Load Reduction	60	None	68.7
Receiving	Receiving Node	TSS % Load Reduction	85	None	88.3
Urban	Driveway(100% Imp - 45 sqm)	Area Impervious (ha)	None	None	0.005
Urban	Driveway(100% Imp - 45 sqm)	Area Penious (ha)	None	None	0
Urban	Driveway(100% Imp - 45 sqm)	Total Area (ha)	None	None	0.005
Urban	Driveway/Carpark(100% Imp - 443 sqm)	Area Impervious (ha)	None	None	0.044
Urban	Driveway/Carpark(100% Imp - 443 sqm)	Area Penious (ha)	None	None	0
Urban	Driveway/Carpark(100% Imp - 443 sqm)	Total Area (ha)	None	None	0.044
Urban	Landscape(100% Perv- 27 sqm)	Area Impervious (ha)	None	None	0
Urban	Landscape(100% Perv- 27 sqm)	Area Penious (ha)	None	None	0.003
Urban	Landscape(100% Perv- 27 sqm)	Total Area (ha)	None	None	0.003
Urban	Landscape(100% Perv- 396.4 sqm)	Area Impervious (ha)	None	None	0
Urban	Landscape(100% Perv- 396.4 sqm)	Area Penious (ha)	None	None	0.04
Urban	Landscape(100% Perv- 396.4 sqm)	Total Area (ha)	None	None	0.04
Urban	Road(100% Imp - 150.3 sqm)	Area Impervious (ha)	None	None	0.015
Urban	Road(100% Imp - 150.3 sqm)	Area Penious (ha)	None	None	0
Urban	Road(100% Imp - 150.3 sqm)	Total Area (ha)	None	None	0.015

Only certain parameters are reported when they pass validation

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MUSIC-link now in MUSIC by eWater - leading software for modelling stormwater solutions

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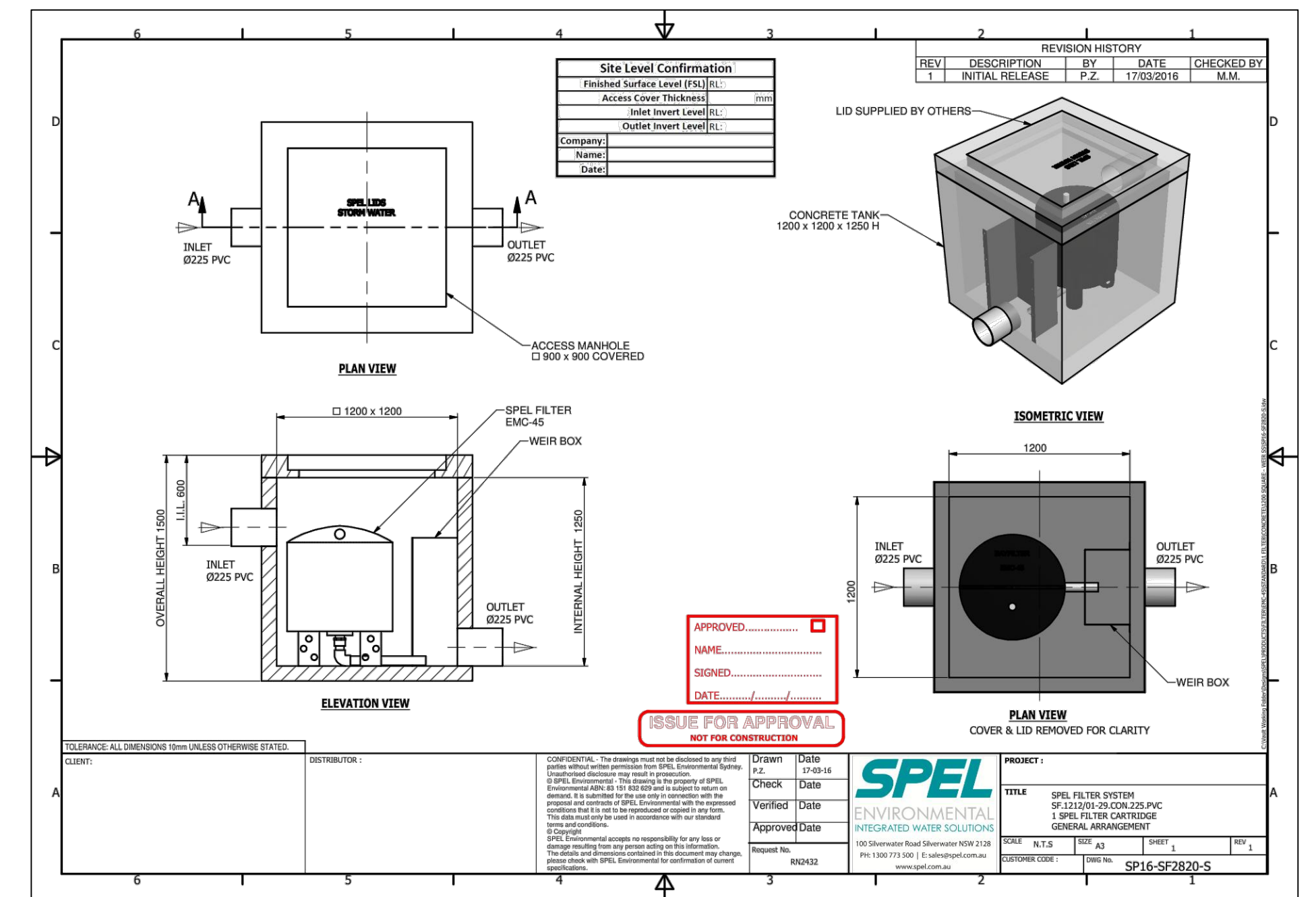
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**Falling Parameters**

Node Type	Node Name	Parameter	Min	Max	Actual
Detention	1.440.88 SPEL Filter (Full Height) Vault	H-flow bypass rate (cum/sec)	None	99	100

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BEFORE YOU DIG

PROJECT ARCHITECT	ENGINEER	CLIENT	PROJECT	STATUS	TITLE	DATE	SCALE	PROJ. NO.
		KINGSWOOD GOSPEL TRUST	PROPOSED MEETING HALL at LOT 12, CNR. FORESTWOOD DVE & BRADLEY ST. GLENMORE PARK	DA ISSUE	STORMWATER CONCEPT PLAN ROOF PLAN	OCT.19	as shown	3029
PROJECT ARCHITECT	ENGINEER	CLIENT	PROJECT	STATUS	TITLE	DATE	SCALE	PROJ. NO.
B Oct.19	DA Issue							
A Oct.19	Coordination Issue							
REV DATE	NOTATION/AMENDMENT							
	DO NOT SCALE DRAWINGS. CHECK ALL DIMENSIONS ON SITE. FIGURED DIMENSIONS TAKE PRECEDENCE.							
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