ALTERATIONS & ADDITIONS AT 10 TALGARRA PLACE, BEACON HILL

- G1 These drawings shall be read in conjunction with all architectural and other consultants drawings and specifications and with such other written instructions and sketches as may be issued during the cours the Contract. Any discrepancies shall be referred to the Superintendent before proceeding with any rel works. Construction from these drawings, and their associated consultant's drawings is not to commer until approved by the Local Authorities.
- All materials and workmanship shall be in accordance with the relevant and current Standards Australia codes and with the By-Laws and Ordinances of the relevant building authorities except where varied by the

- G5 Unless noted otherwise levels are in metres and dimensions are in millimetres.
- G6 The alignment and level of all services shown are approximate only. The contractor shall confirm the position and level of all services prior to commencement of construction. Any damage to services shall be rectified at
- G8 All services, or conduits for servicing shall be installed prior to commencement of pavement construction
- G9 Subsoil drainage, comprising 100 agriculture pipe in geo-stocking to be placed as shown and as may be directed by the superintendent. Subsoil drainage shall be constructed in accordance with the relevant local
- The structural components detailed on these drawings have been designed in accordance with the releva Standards Australia codes and Local Government Ordinances for the following loadings. Refer to the Architectural drawings for proposed floor usage. Refer to drawings for live loads and superimposed dead

DRAINAGE NOTES

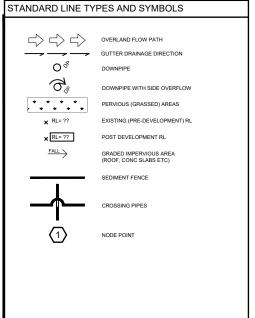
- D2 All pipes within the property to be a minimum of 100 dia upvc @ 1% minimum grade, uno.
- D3 All pits within the property are to be fitted with "weldlok" or approved equivalent grates:
 Light duty for landscaped areas
 Heavy duty where subjected to vehicular traffic

- 1) Preusals sournment plus
 2) Cast insitu mass concrete
 3) Cement rendered 230mm brickwork subject to the relevant local authority construction specification.
- D5 Ensure all grates to pits are set below finished surface level within the property. Top of pit RL's are approximate only and may be varied subject to approval of the engineer. All invert levels are to be achieved
- D6 Any pipes beneath relevant local authority road to be rubber ring jointed RCP, uno.
- D7 All pits in roadways are to be fitted with heavy duty grates with locking bolts and continuous hinge
- D8 Provide step irons to stormwater pits greater than 1200 in depth.
- D10 Where a high early discharge (hed) pit is provided all pipes are to be connected to the hed pit, uno.
- D12 Colorbond or zincalume steel box gutters shall be a minimum of 450 wide x 150 deep.
- D13 Eaves gutters shall be a minimum of 125 wide x 100 deep (or of equivalent area) colorbond or zincalume steel upo
- D14 Subsoil drainage shall be provided to all retaining walls & embankments, with the lines feeding into the stormwater drainage system. uno.

EROSION AND SEDIMENT CONTROL NOTES

- usus trained to use site share be permissed unter train in the immediated acted or the works and no inaterial share be removed from the site without the relevant local authority approval. All erosion and sediment control devices to be installed and maintained in accordance with standards outlined in nsw department of housing's "managing urban stormwater soils and constructions".
- Council approved filter fabric to be entrenched 150mm deep upslope towards disturbed surface. Fabric to be
- Stabalised entry/exit points to remain intact until finished driveway is complete. Construction of entry/exit points to be maintained and repaired as required so that it's function is not compromised. Construction of entry/exit point to be in accordance with the detail contained within this drawing set.
- E6 All drainage pipe inlets to be capped until:
- downpipes connected nits constructed and protected with silt barrier
- E6 Provide and maintain silt traps around all surface inlet pits until catchment is revegetated or paved.
- E8 The contractor shall implement dust control by regularly wetting down (but not saturating) disturbed area.
- E9 Topsoil shall be stripped and stockpiled outside hazard areas such as drainage lines. This topsoil shall be respread later on areas to be revegetated and stabilised only, (i.e. all footpaths, batters, site regarding areas, basins and catchdrains). Topsoil shall not be respread on any other areas unless specifically instructed by the superintendent. If they are to remain for longer than one month stockpiles shall be protected from erospion. by covering them with a mulch and hydroseeding and, if necessary, by locating banks or drains downstream of a stockpile to retard silt laden runoff.
- E11 The contractor shall grass seed all disturbed areas with an approved mix as soon as practicable after
- E12 Revegetate all trenches immediately upon completion of backfilling.

STANDARD LINE TYPES AND SYMBOLS					
	PROPOSED KERB & GUTTER				
	EXISTING KERB & GUTTER				
	PROPOSED BELOW GROUND PIPELINE				
	PROPOSED SUSPENDED PIPELINE				
	EXISTING PIPELINE				
—— ss ——	SUBSOIL DRAINAGE LINE				
	PROPOSED KERB INLET PIT				
	EXISTING KERB INLET PIT				
	PROPOSED JUNCTION OR INLET PIT				
	EXISTING JUNCTION OR INLET PIT				
	DESIGN CENTRELINE				
	EXISTING EDGE OF BITUMEN				
— т —	TELECOMUNICATION CONDUIT				
—— G ——	GAS MAIN				
—— w ——	WATER MAIN				
—— s ——	SEWER MAIN				
v	UNDERGROUND ELECTRICITY CABLES				
	PERMANENT MARK & S.S.M.				
Δ Δ	BENCH MARK, SURVEY STATION				



AHD	Australian height datum	SS	Stainless steel
AG	Ag-pipe (Sub soil drainage)	SU	Box gutter sump
ARI	Average recurrence interval	TW	Top of wall
BG	Box Gutter	TWI	Top water level
BWI	Bottom water level	U/S	Underside of slab
CL	Cover level	VG	Vally gutter
CO	Clean out inspection opening	UNO	Unless noted otherwise
DCP	Discharge control pit		
DP	Down pipe		
DRP	Dropper pipe		
EBG	Existing box gutter		
EDP	Existing down pipe		
EEG	Existing eaves gutter		
EG	Eaves gutter		
FRC	Fiber reinforced concrete		
FW	Floor waste		
GD	Grated drain		
GSIP	Grated surface inlet pit		
HED	High early discharge		
HP	High point of gutter		
IL	Invert level		
10	Inspection opening		
O/F	Overflow		
OSD	On-site detention		
PSD	Permissible site discharge		
P1 RCP	Pipe 1		
RHS	Reinforced concrete pipe Rectangular hollow section		
RI	Reduced level		
RR.I	Rubber ring joint		
RRT	Rainwater re-use tank		
RWH	Rain water head		
RWO	Rain water outlet		
SLAP	Sealed lid access pit		
SP	Spreader pipe		
SPR	Spreader		

RECOMMENDED MAINTENANCE SCHEDULE						
DISCHARGE CONTROL PIT (DCP)	FREQUENCY	RESPONSIBILITY	PROCEDURE			
Inspect flap valve and remove any blockage.	Six monthly	Owner	Remove grate. Ensure flap valve moves freely and remove any blockages or debris.			
Inspect screen and clean.	Six monthly	Owner	Revove grate and screen if required and clean it.			
Inspect & remove any blockage of orifice.	Six monthly	Owner	Remove grate & screen to inspect orifice. see plan for location of dcp.			
Inspect dcp sump & remove any sediment-sludge.	Six monthly	Owner	Remove grate and screen. Remove sediment/sludge build-up and check orifice and flap valve clear.			
Inspect grate for damage or blockage.	Six monthly	Owner	Check both sides of grate for corrosion, (especially corners and welds) damage or blockage.			
Inspect return pipe from storage and return 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 sludge/debris on upstream side of return line.			
Inspect outlet pipe and remove any blockage.	Six monthly	Maintenance Contractor	Remove grate and screen. ventilate underground storage if present. Check orflice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.			
Check fixing of step irons is secure.	Six monthly	Maintenance Contractor	Remove grate and ensure fixings secure prior to placing weight on step iron.			
Inspect overflow weir & remove any blockage.	Six monthly	Maintenance Contractor	Remove grate and open cover to ventilate underground storage if present. ensure weir clear of blockages.			
Empty basket at overflow weir (if present).	Six monthly	Maintenance Contractor	Remove grate and ventilate underground storage chamber if present. Empty basket, check fixings secure and not corroded.			
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance Contractor	Remove grate and screen. ensure plate mounted securely, tighten fixings if required. seal gaps as required.			
Check attachment of screen to wall of pit.	Annually	Maintenance Contractor	Remove grate and screen. ensure screen fixings secure. repair as required.			
Check screen for corrosion.	Annually	Maintenance Contractor	Remove grate and examine screen for rust or corrosion, especially at corners or welds.			
Check attachment of flap valve to wall of .	Annually	Maintenance Contractor	Remove grate. Ensure fixings of valve are secure.			
Check flap valve seals against wall of pit.	Annually	Maintenance Contractor	Remove grate. fill pit with water and check that flap seals against side of pit with minimal leakage.			
Check any hinges of flap valve move freely.	Annually	Maintenance Contractor	Remove grate. Test valve hinge by moving flap to full extent.			
Inspect dcp walls (internal and external, if appropriate) for cracks or spalling.	Annually	Maintenance Contractor	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.			
Check step irons for corrosion.	Annually	Maintenance Contractor	Remove grate. Examine step irons and repair any corrosion or damage.			
Check orifice diameter correct and retains sharp edge.	Five yearly	Maintenance Contractor	Compare diameter to design (see work-as- executed) and ensure edge is not pitted or damaged.			
STORAGE						
Inspect & remove any blockage of orifice.	Six monthly	Owner	Remove grate and screen. remove sediment/sludge build-up.			
Check orifice diameter correct and retains sharp edge.	Six monthly	Owner	Remove blockages from grate and check if pit blocked.			
Inspect screen and clean.	Six monthly	Owner	Remove debris and floatable material likely to be carried to grates.			
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance	Remove grate to inspect internal walls, repair as required, clear vegetation from external walls if necessary and repair as required.			
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor	Compare actual storage available with work-as executed plans. If volume loss is greater than 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal.			
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor	Check along drainage lines and at pits for subsidence likely to indicate leakages.			

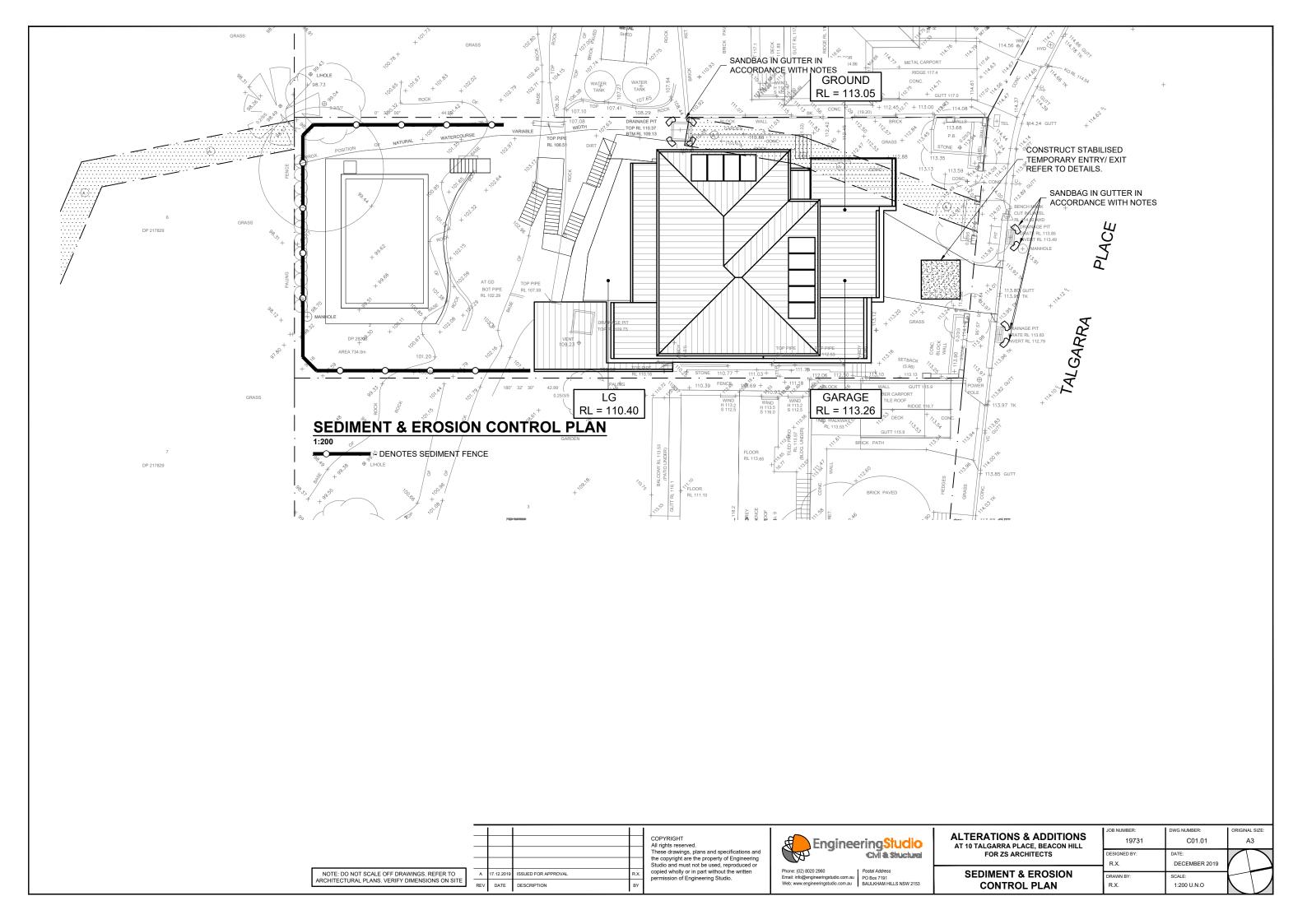
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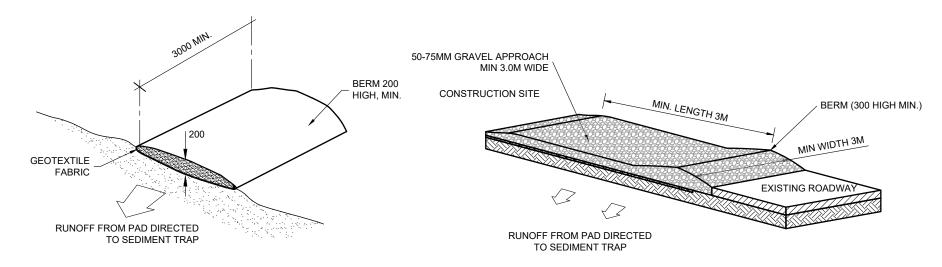
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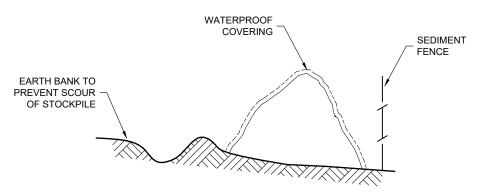
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OPTION 1 - EXISTING DRIVEWAY TO REMAIN

OPTION 2 - DRIVEWAY TO BE RENEWED

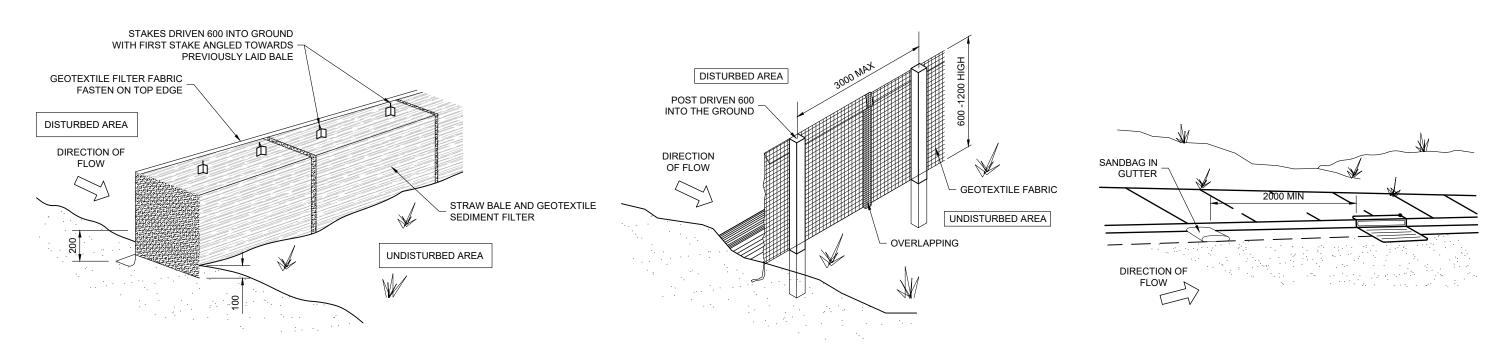
VEHICLE ACCESS TO SITE

VEHICLE ACCESS TO THE BUILDING SITE SHOULD BE RESTRICTED TO A SINGLE POINT SO AS TO REDUCE THE AMOUNT OF SOIL DEPOSITED ON THE STREET PAVEMENT.

BUILDING MATERIAL STOCKPILES

ALL STOCKPILES OF BUILDING MATERIAL SUCH AS SAND AND SOIL MUST BE PROTECTED TO PREVENT SCOUR AND EROSION.

THEY SHOULD NEVER BE PLACED IN THE STREET GUTTER WHERE THEY WILL WASH AWAY WITH THE FIRST RAINSTORM.



STRAW BALE DETAIL

SEDIMENT AND EROSION FENCE DETAIL

SANDBAG KERB SEDIMENT TRAP

IN CERTAIN CIRCUMSTANCES EXTRA SEDIMENT TRAPPING MAY BE NEEDED IN THE STREET GUTTER.

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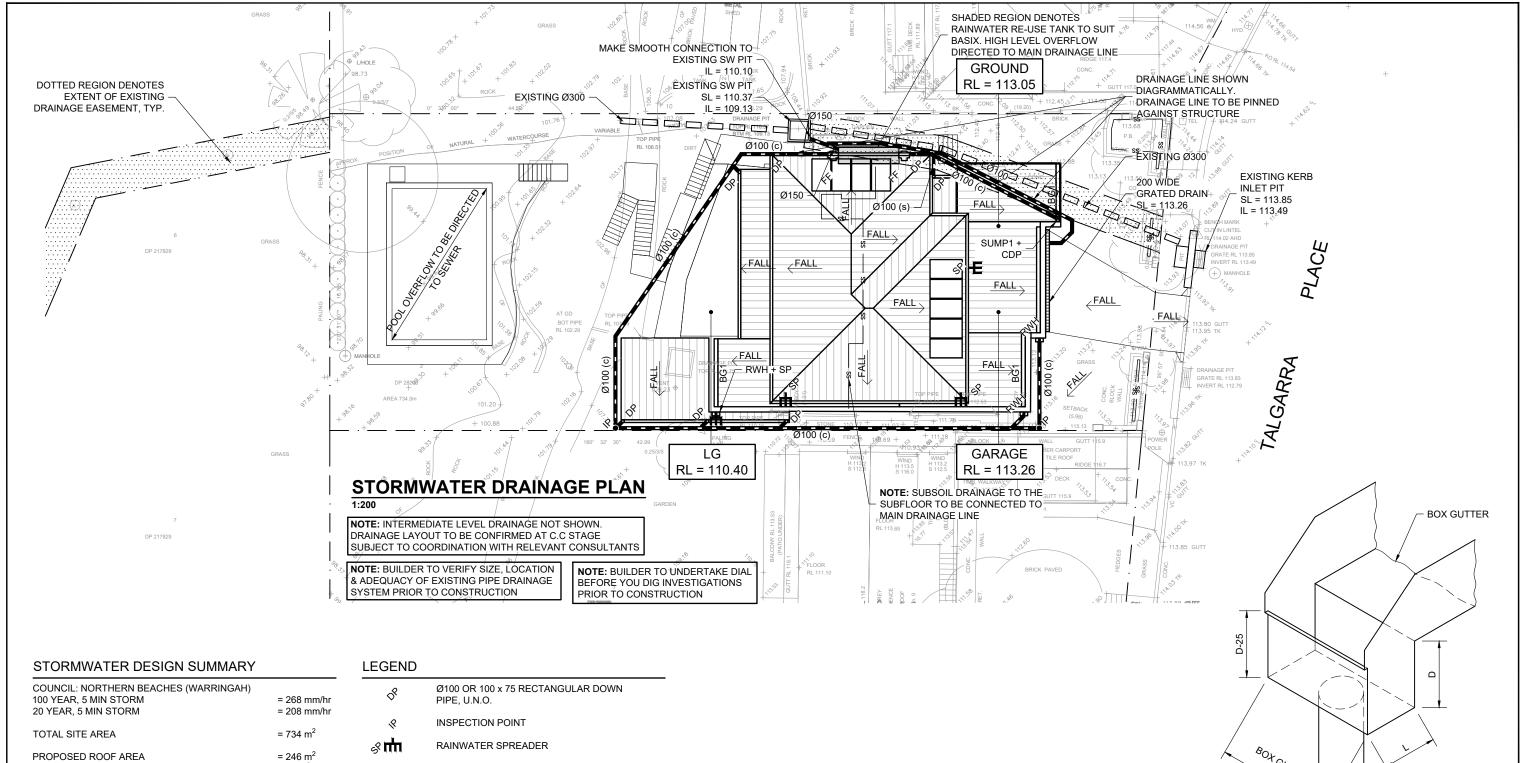
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	ALTERATIONS & ADDITIONS AT 10 TALGARRA PLACE, BEACON HILL FOR ZS ARCHITECTS
Г	SEDIMENT & EROSION

CONTROL DETAILS

_	JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:
S L	19731	C01.02	A3
	DESIGNED BY:	DATE: DECEMBER 2019	
	DRAWN BY: R.X.	SCALE: 1:20 U.N.O	



IMPERVIOUS PATHS & DRIVEWAYS $= 24 \text{ m}^2$ TOTAL IMPERVIOUS SITE AREA $= 270 \text{ m}^2$ IMPERVIOUS SITE PERCENTAGE

NO ON-SITE DETENTION IS REQUIRED FOR ALTERATIONS AND ADDITIONS IN ACCORDANCE WITH VERBAL ADVICE RECEIVED FROM COUNCIL ON 17.12.2019

100% ROOF AREA TO BE DIRECTED TO THE ABOVE GROUND RAINWATER RE-USE TANK IN ACCORDANCE WITH BASIX. HIGH LEVEL OVERFLOW DIRECTED TO THE EXISTING DRAINAGE LINE

- ALL DRAINAGE LINES SHALL BE uPVC (CLASS SH) STORMWATER DRAINAGE PIPE, U.N.O.
- ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, U.N.O.
- FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL
- MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500 U.N.O.
- MINIMUM EFFECTIVE EAVES GUTTER SIZE = 7,000 mm² (150 HALF ROUND)

⟨⟨Ѻ

FIRST FLUSH RAINWATER DEVICE TO BUILDERS DETAIL

X 100.00

PROPOSED FINISHED SURFACE LEVEL

CHARGED PIPE

PROPOSED BELOW GROUND PIPELINE

PROPOSED SUSPENDED PIPELINE

SUBSOIL DRAINAGE LINE

PROPOSED SURFACE INLET PIT

NOTE: DO

OVERLAND FLOW PATH

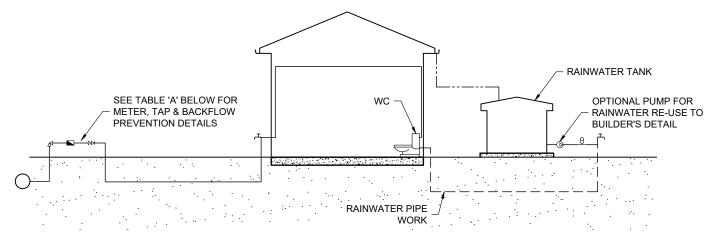
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NEV DATE DESCRIPTION BT		A	17.12.2019 DATE	ISSUED FOR APPROVAL DESCRIPTION	R.X.	All rights reserved. These drawings, plans and specifications and the copyright are the property of Engineering Studio and must not be used, reproduced or copied wholly or in part without the written

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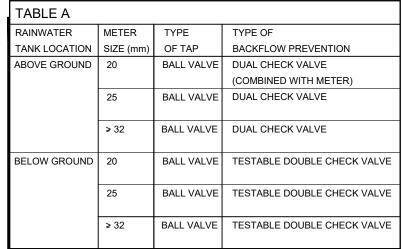
ALTERATIONS & ADDITIONS	JOB NUMBER: 19731	DWG NUMBER: C02.01	ORIGINAL SIZE:
AT 10 TALGARRA PLACE, BEACON HILL	18/31	C02.01	AS
FOR ZS ARCHITECTS	DESIGNED BY:	DATE:	
	R.X.	DECEMBER 2019	$V \setminus \Delta$
ORMWATER DRAINAGE PLAN	DRAWN BY:	SCALE:	
ORIVIVATER DRAINAGE PLAN	R.X.	1:200 U.N.O	$\setminus \setminus \angle$

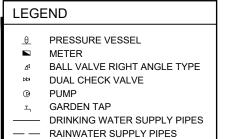
RAINWATER HEAD SECTION



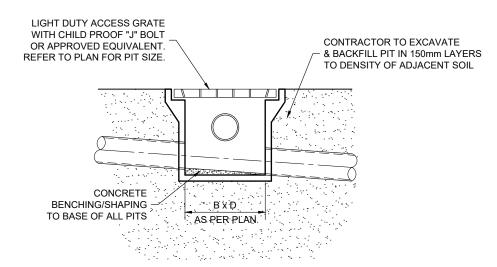
--- DOWN PIPES

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE





- DIAGRAM NOTES:
- 1 DRAWING TO BE READ IN CONJUNCTION WITH SYDNEY WATER PLUMBING REQUIREMENTS
- 2 FOR TANKS 10,000 LITRES OR LESS, COUNCIL DEVELOPMENT CONSENT IS NOT REQUIRED, IF THEIR CONDITIONS FOR INSTALLATION ARE FOLLOWED.
- 3 FOR TANKS GREATER THAN 10,000 LITRES COUNCIL DEVELOPMENT CONSENT IS GENERALLY REQUIRED.
- 4 FOR TANKS MORE THAN 10,000 LITRES APPROVAL IS REQUIRED FOR BUILDING OVER SEWERS.
- 5 SYDNEY WATER'S APPROVAL IS REQUIRED FOR ANY TOP UP FROM DRINKING WATER SUPPLY, REGARDLESS OF TANK SIZE. NO DIRECT CONNECTION IS ALLOWED BETWEEN THE DRINKING WATER SUPPLY AND THE RAINWATER TANK SUPPLY.
- 6 RAINWATER PIPEWORK IS SHOWN ON THE DIAGRAM AS SUPPLYING INTERNAL AND EXTERNAL RAINWATER USES. CUSTOMERS MAY WANT ONE OR THE OTHER.
- 7 ANY DESIGNED ACCESS LID INTO RAINWATER RE-USE TANK IS TO HAVE A LOCKABLE LID. IF THE LID IS DESIGNED TO BE ACCESSED BY A MAINTENANCE PERSON, IT MUST BE AT LEAST 600 mm x 900 mm IN SIZE.



DUAL DRINKING WATER & RAINWATER SUPPLY DIAGRAM

ISSUED FOR APPROVAL

DESCRIPTION

TYPICAL SURFACE INLET PIT DETAIL

JOB NUMBER

ESIGNED B

19731

ALTERATIONS & ADDITIONS

AT 10 TALGARRA PLACE, BEACON HILL

STORMWATER DETAILS SHEET

FOR ZS ARCHITECTS

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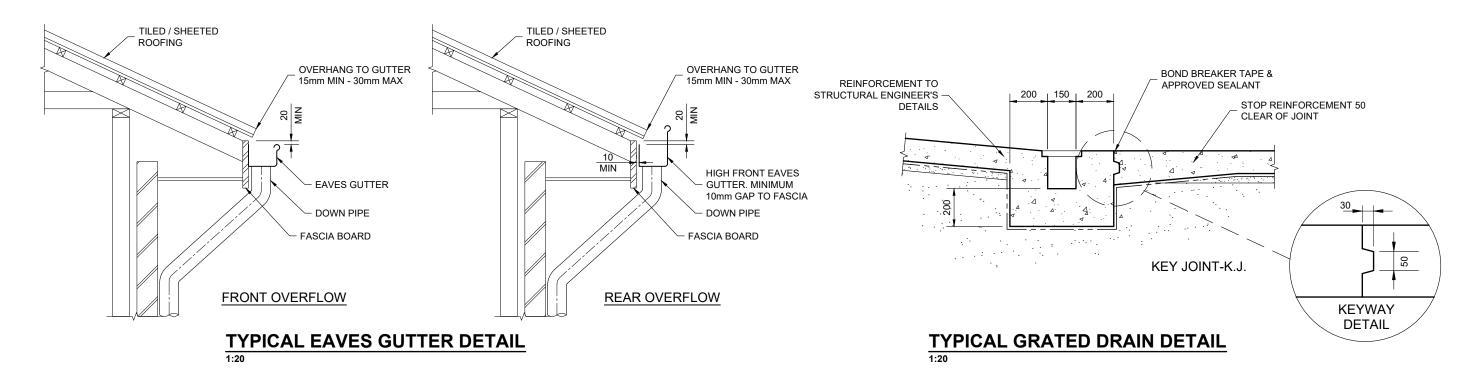
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DECEMBER 2019

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