


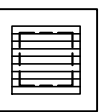





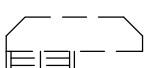






PRIME ENGINEERING CONSULTANTS

ALTERATIONS & ADDITIONS AT 17 ARGYLE STREET, BILGOLA PLATEAU NSW 2107

 <div>PRIME ENGINEERING CONSULTANTS</div> <div>PUTTING DESIGN TO ITS PRIME</div> <div>Suite 1, 6 WELD STREET, PRESTONS NSW 2170</div> <div>M: 0450 877 463 M: 0428 088 893</div> <div>www.primeec.com.au admin@primeec.com.au</div>		DRAWN	DATE	DESCRIPTION	ISSUE	CLIENT	DESIGNED BY:	D.S.	ISSUE:	COVER PAGE
		D.S.	16.04.2021	ISSUED FOR APPROVAL	A	SALLY BIRD	CHECKED BY:	D.S.	A	
						SITE ADDRESS	SCALE:	1:100		
						17 ARGYLE STREET, BILGOLA PLATEAU NSW 2107	CLIENT REF:	ARCH DRAWING NO:	SHEET NO:	
							PSW21083	FJ088	SW01	

LEGEND	
DP ●	DOWNPIPE
—————	STORMWATER LINE
————— SSD —————	SUBSOIL DRAINAGE LINE
————— OF —————	OVERFLOW LINE
————— SWRM —————	STORMWATER RISING MAIN
————— e —————	EXISTING STORMWATER LINE
———— SW ———— SW ————	AUTHORITY STORMWATER LINE
———— HL ———— HL ————	HIGH LEVEL STORMWATER LINE
————— S —————	AUTHORITY SEWER LINE
————— W —————	AUTHORITY WATER LINE
———— G ———— G ————	AUTHORITY GAS LINE
—————	AUTHORITY ELECTRICITY LINE
— FO ———— FO ———— FO ————	AUTHORITY FIBRE OPTIC LINE
————— TEL —————	AUTHORITY COMMS LINE
————— / ————— / —————	FENCE LINE
	GRATED SURFACE INLET PIT
	GRATED SURFACE INLET PIT WITH ENVIROPOD INSERT
	JUNCTION PIT
	KERB INLET PIT
	EXISTING GRATED SURFACE INLET PIT
	GRATED TRENCH DRAIN
	EXISTING JUNCTION PIT
	EXISTING KERB INLET PIT
■ eTEL	EXISTING TELSTRA PIT
■ eHYD	EXISTING HYDRANT
✉ eSV	EXISTING STOP VALVE
☒ eGAS	EXISTING GAS VALVE
○ ePP	EXISTING POWER POLE
✂ eBT	EXISTING BOUNDARY TRAP

LEGEND	
FF ●	FIRST FLUSH
○ eSMH	EXISTING SEWER MANHOLE
OFF →	OVERLAND FLOW PATH
RWO ●	RAINWATER OUTLET
CO ●	CLEAR OUT POINT
DDO ●	DISH DRAIN OUTLET
PD ●	PLANTER DRAIN
┐	CAPPING
(1.01)	PIT TAG/NUMBER
RH ☒	RAINHEAD
●	DOWNPIPE DROP
✂	NON RETURN VALVE
	WALL PENETRATION
DP ● ┐	DOWNPIPE SPREADER
	WARNING LIGHT
0.00 ●	SPOT LEVELS
▲	BENCHMARK



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 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:

ø or DIA	DIAMETER
CBR	CALIFORNIA BEARING RATIO
CH	CHAINAGE
CL	CENTER LINE
CO	CLEAR OUT
DD	DISH DRAIN
DDO	DISH DRAIN OUTLET
DEJ	DOWELLED EXPANSION JOINT
DGB	DENSE GRADED BASECOURSE
DGS	DENSE GRADED SUB-BASE
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSIP	GRATED SURFACE INLET PIT
HYD	HYDRANT
IJ	ISOLATING JOINT
IK	INTEGRAL KERB
IL	INVERT LEVEL
IP	INTERSECTION POINT
KIP	KERB INLET PIT
KO	KERB ONLY
K&G	KERB & GUTTER
KR	KERB RETURN
LS	LONGITUDINAL SECTION
NGL	NATURAL GROUND LEVEL
OFF	OVERLAND FLOW PATH
OSD	ON-SITE DETENTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RK	ROLL KERB & GUTTER
RL	REDUCED LEVEL
RW	RETAINING WALL
RWT	RAINWATER TANK
SJ	SAWN CONTROL JOINT
SMH	SEWER MAN HOLE
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
SV	STOP VALVE
TOK	TOP OF KERB
TOW	TOP OF WALL
TWL	TOP WATER LEVEL
TP	TANGENT POINT
UPVC	UNPLASTICISED POLYVINYL CHLORIDE
UNO	UNLESS NOTED OTHERWISE
WPJ	WEAKENED PLANE JOINT
FF	FIRST FLUSH DEVICE
TYP	TYPICAL
BM	BENCH MARK

DRAINAGE NOTES:

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE

MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS

BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL

ALL PITS TO HAVE 600x600mm INTERNAL DIMENSIONS (U.N.O.)

SILT ARRESTORS TO HAVE 900x900mm INTERNAL DIMENSIONS

HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS

PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT

ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP

ALL PITS SHALL BE MAINTAINED REGULARLY

TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER

MAXIMUM FRONT ENTRY PIPE: –
STRAIGHT ENTRY – ø750
SKEW ENTRY 45° – ø525

ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES

COMPRESSIVE STRENGTH f_c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

STORMWATER PIPE BEDDING/PAVING NOTES:

WHERE TRENCH BASE IS ROCK A MINIMUM OF 75mm BEDDING TO BE PROVIDED UNDER PIPE COLLARS.

STORMWATER PIPE BEDDING DETAIL TO BE IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS. BEDDING DETAILS TO BE CONFIRMED UPON EXCAVATION & PRIOR TO INSTALLATION OF PIPEWORK.

FOOTPATH REINSTATEMENT NOTES:

REMOVE ALL SAND FILL WITHIN THE FOOTPATH AREA TO THE EXISTING SUBGRADE.

SUPPORT ALL AUTHORITY SERVICES TO STRUCTURAL ENGINEERS DETAILS DURING EXCAVATION.

REINSTATE FOOTPATH SUBGRADE.

THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS:
SELECT FILL 95% MODIFIED
SELECT FILL (LESS THAN 300mm 98% MODIFIED
BELOW BASE COURSE)
BELOW BASE COURSE 100% MODIFIED

EROSION & SEDIMENT CONTROL NOTES:

PROVIDE SILT FENCE/HAY BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYPICAL).

ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS.

DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY.

SURVEY

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY xxxxxxxxxxxx, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. PRIME ENGINEERING CONSULTANTS DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAW.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT PRIME ENGINEERING CONSULTANTS.

ADOPT DATUM RL:xxxx (A.H.D) AS PER xxxxxxxx.

DRAWING REGISTER		
NUMBER	NAME	REVISION
SW01	COVER SHEET	A
SW02	SPECIFICATIONS SHEET	A
SW03	GROUND STORMWATER PLAN & DETAILS	A



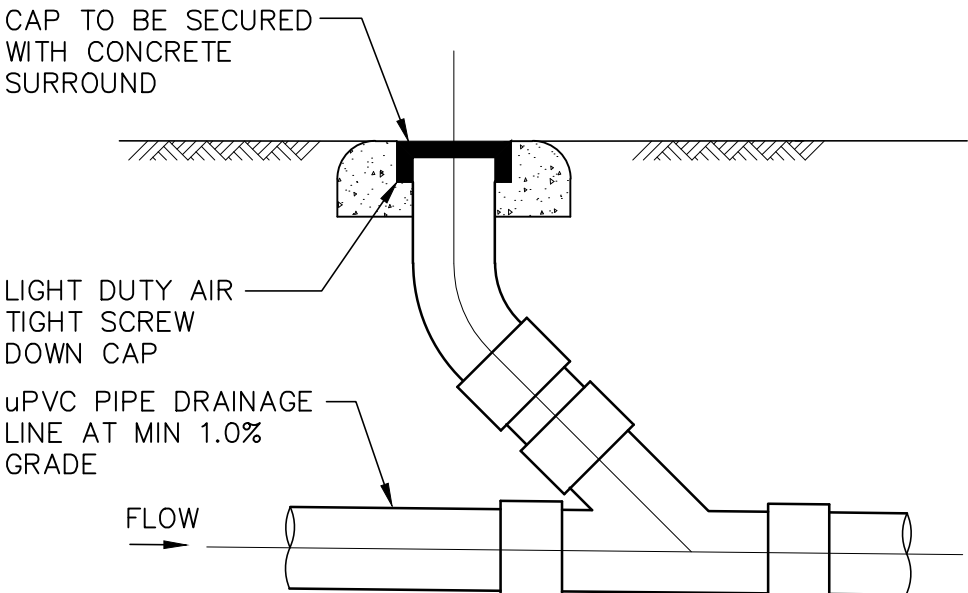
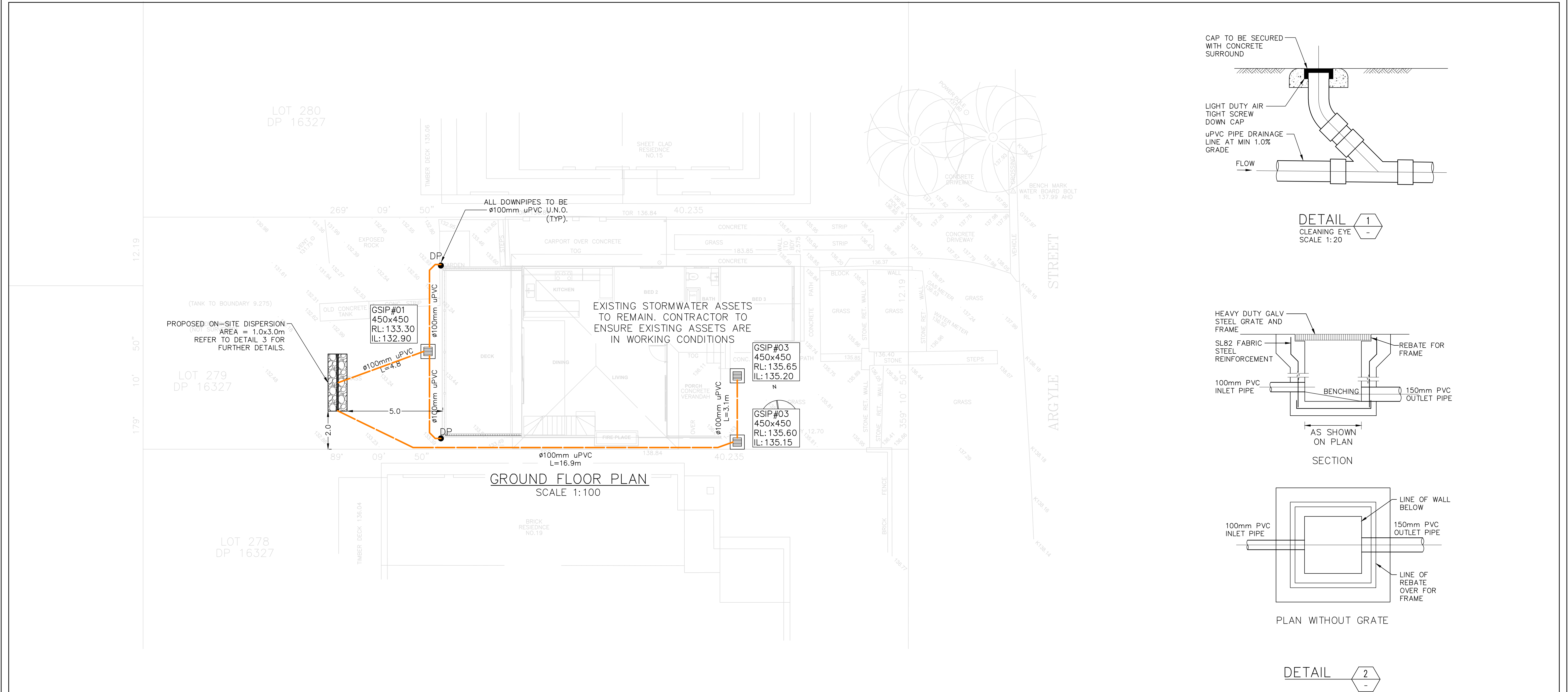
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NSW 2170

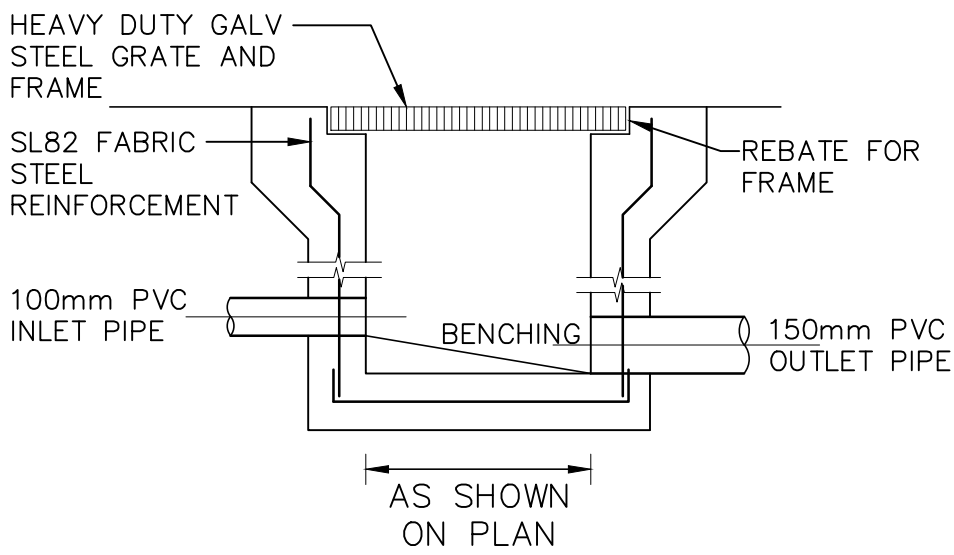
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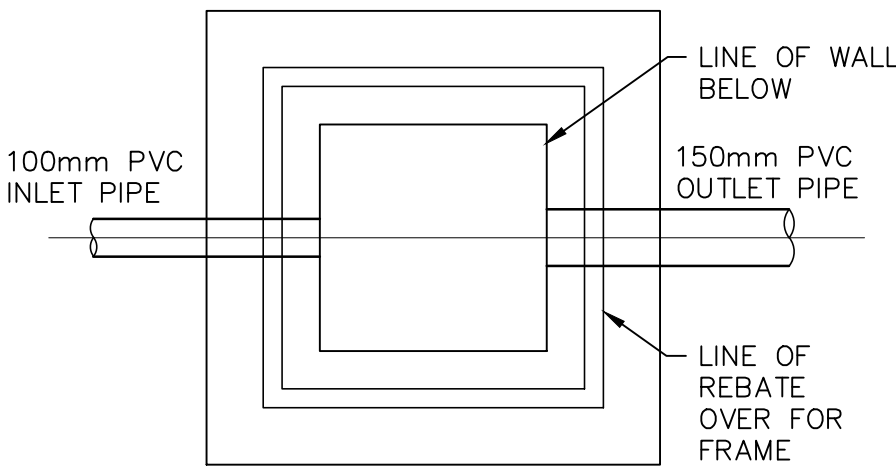
DRAWN	DATE	DESCRIPTION	ISSUE	CLIENT	DESIGNED BY:	D.S.	ISSUE:	SPECIFICATIONS SHEET
	D.S.	16.04.2021	ISSUED FOR APPROVAL	A	SALLY BIRD	CHECKED BY:	D.S.	
					SITE ADDRESS	SCALE:	1:100	
					17 ARGYLE STREET, BILGOLA PLATEAU NSW 2107	CLIENT REF:	ARCH DRAWING NO: SHEET NO:	
						PSW21083	FJ088	SW02



DETAIL 1
CLEANING EYE
SCALE 1:20



SECTION



PLAN WITHOUT GRATE

DETAIL 2
-

DESIGN NOTES:

THE SITE IS LOCATED IN NORTHERN BEACHES CITY COUNCIL.

SITE AREA = 490.50m²

CONTRACTOR TO INSTALL ABOVE GROUND RAINWATER TANK TO COLLECT REQUIRED ROOF AREA IN ACCORDANCE WITH BASIX CERTIFICATE.

RAINWATER TANK TO BE EQUIPPED WITH FIRST FLUSH AND MOSQUITO PROTECTION DEVICES.

ALL NEW STORMWATER PIPES TO HAVE A MINIMUM OF 100mm CONCRETE OR 300mm TOPSOIL COVER U.N.O.

ALL DOWNPIPES SHOWN ON PLAN ARE Ø100mm uPVC U.N.O.

EROSION & SEDIMENT CONTROL NOTES:

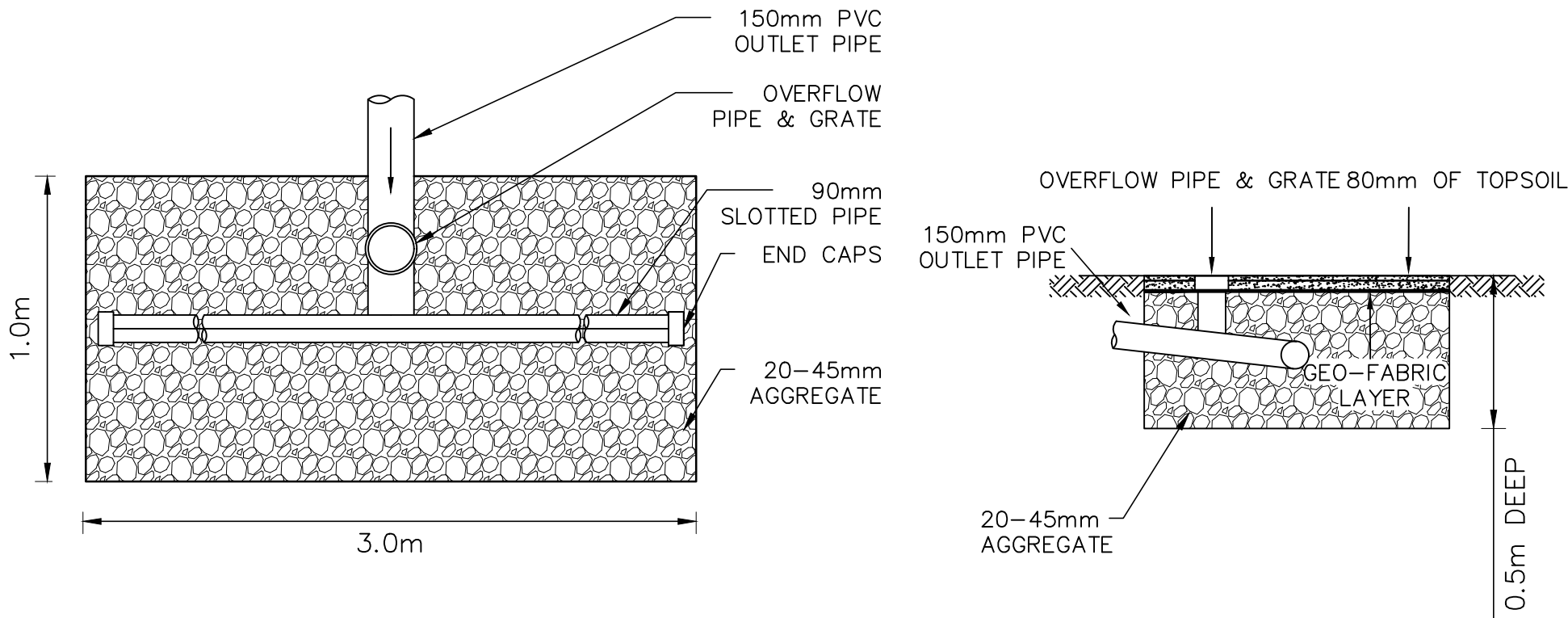
CONTRACTOR TO PROVIDE SILT FENCE/HAY BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYP).

ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS.

DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY.

SURVEY

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY TOTAL SURVEYING SOLUTIONS REF: 201369 DATED 29/07/2020 , BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.



DETAIL 3
ON SITE DISPERSION
NOT TO SCALE



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D.S.	16.04.2021	ISSUED FOR APPROVAL	A	SALLY BIRD	CHECKED BY:	D.S.	A	
				SITE ADDRESS	SCALE:	1:100		
				17 ARGYLE STREET, BILGOLA PLATEAU NSW 2107	JOB REF:	ARCH DRAWING NO:	SHEET NO:	
					PSW21083	FJ088	SW03	