

PROPOSED SEPP HOUSING DEVELOPMENT LOT 110, LEONAY PARADE, LEONAY - STAGE 2 STORMWATER CONCEPT DESIGN



LOCALITY PLAN
NOT TO SCALE
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DRAWING REGISTER			
SHEET No.	No.	TITLE	REV
1	SW100	COVER SHEET	A
2	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 1 OF 2	A
3	SW202	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 2 OF 2	A
4	SW301	STORMWATER CONCEPT DESIGN - DETAILS SHEET	A
5	SW401	EROSION AND SEDIMENT CONTROL - PLAN	A
6	SW402	EROSION AND SEDIMENT CONTROL - DETAILS	A



PREPARED BY:

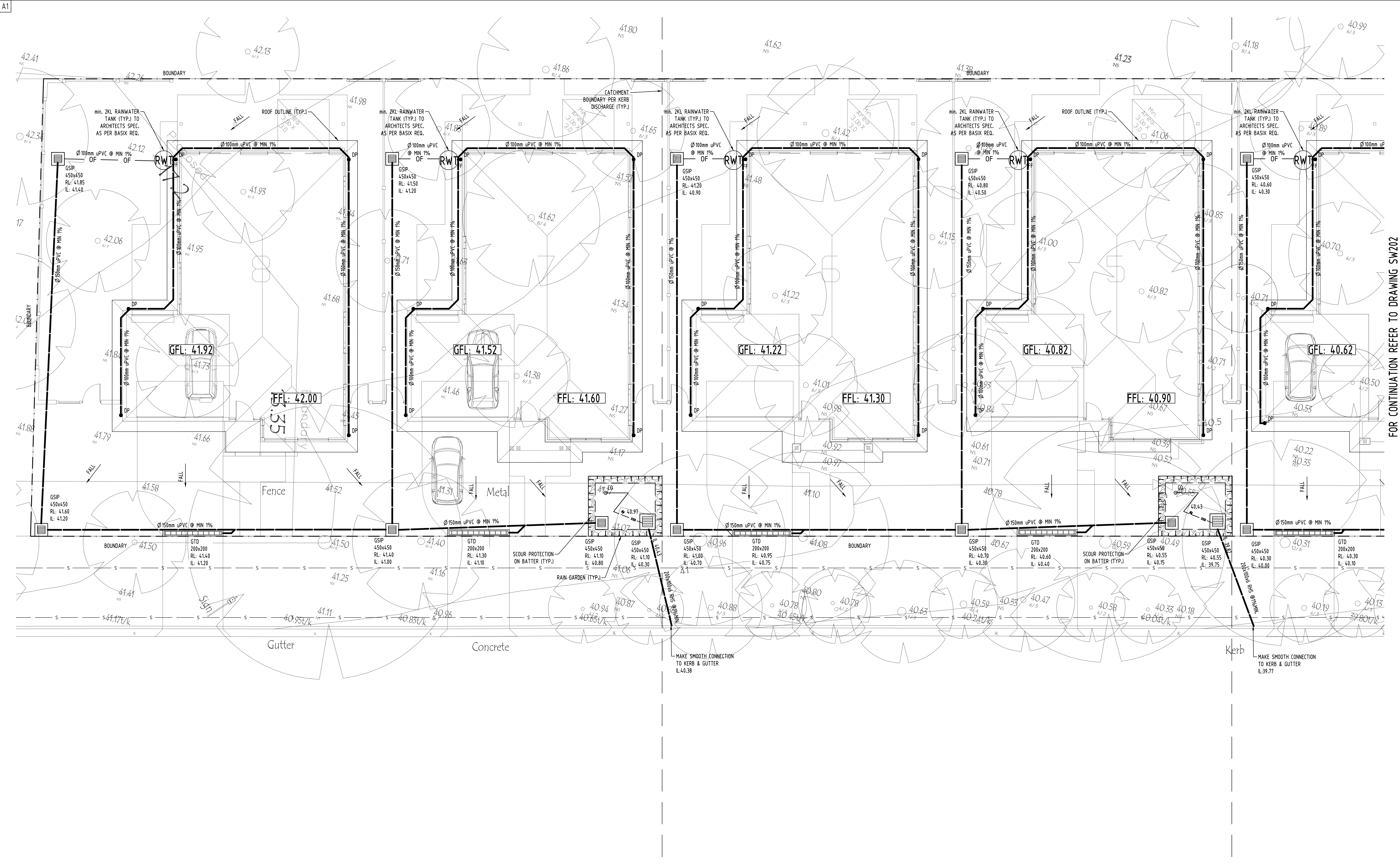
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ARCHITECT:



CLIENT:

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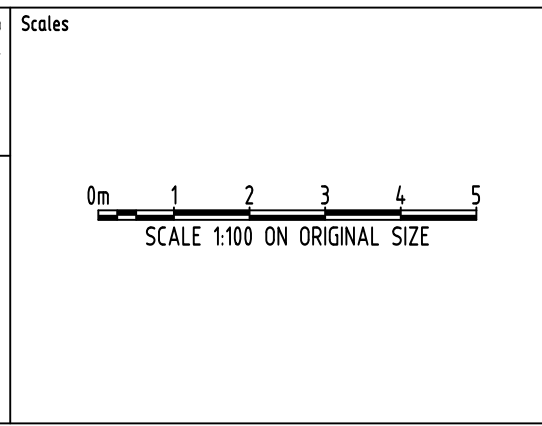


FOR CONTINUATION REFER TO DRAWING SW202

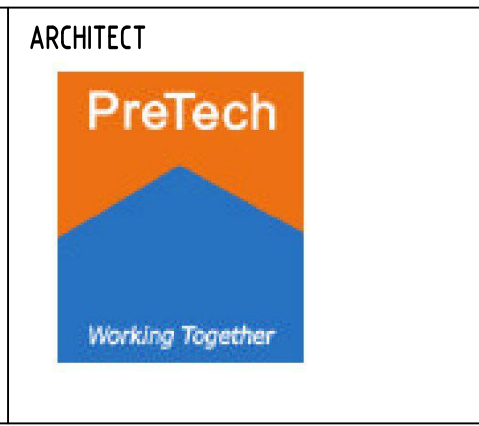
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Discipline	Drawing Title and Number	Date	Rev.
ARCH			
MECH			
STRUC			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

QUALITY CONTROL			
ROLE	NAME	DATE	STATUS
DRAWN	LA	10.09.18	
CHECKED	LA	10.09.18	
DESIGNED	LA	10.09.18	
VERIFIED	SH	24.04.18	
APPROVED	SH	24.04.18	

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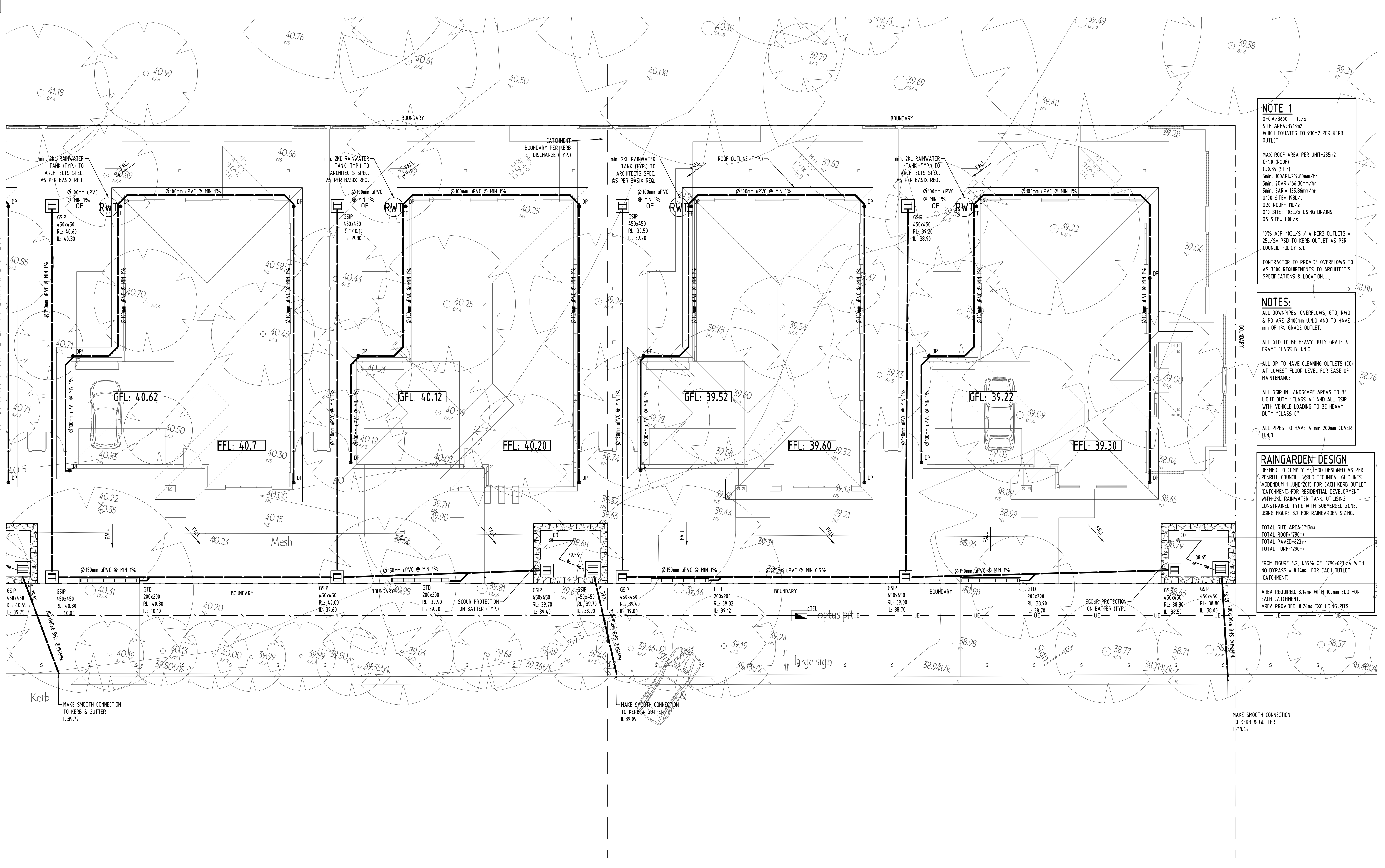
A.B.N. 21 118 222 530

PROJECT
PROPOSED SEPP HOUSING DEVELOPMENT

LOT 110, LEONAY PARADE, LEONAY

Drawing Status	PRELIMINARY
Drawing Title	STORMWATER CONCEPT DESIGN GROUND FLOOR PLAN SHEET 1 OF 2
Project No	20180063
Drawing No	SW201
Revision No	A

FOR CONTINUATION REFER TO DRAWING SW201



NOTE 1
 Q=CIA/3600 (L/s)
 SITE AREA=3713m²
 WHICH EQUATES TO 930m² PER KERB
 OUTLET
 MAX ROOF AREA PER UNIT=235m²
 C=1.0 (ROOF)
 C=0.85 (SITE)
 5min. 100ARI=219.80mm/hr
 5min. 20ARI=166.30mm/hr
 5min. 5ARI= 125.86mm/hr
 Q100 SITE= 193L/s
 Q20 ROOF= 11L/s
 Q10 SITE= 103L/s USING DRAINS
 Q5 SITE= 110L/s
 10% AEP: 103L/s / 4 KERB OUTLETS =
 25L/s= PSD TO KERB OUTLET AS PER
 COUNCIL POLICY 5.1.
 CONTRACTOR TO PROVIDE OVERFLOWS TO
 AS 3500 REQUIREMENTS TO ARCHITECT'S
 SPECIFICATIONS & LOCATION.

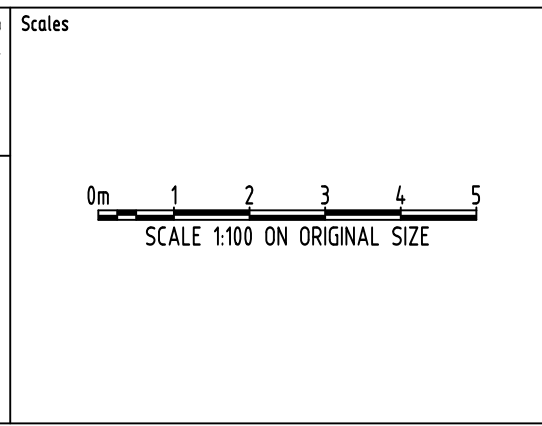
NOTES:
 ALL DOWNPIPES, OVERFLOWS, GTD, RWO
 & PD ARE Ø100mm U.N.O AND TO HAVE
 MIN OF 1% GRADE OUTLET.
 ALL GTD TO BE HEAVY DUTY GRATE &
 FRAME CLASS B U.N.O.
 ALL DP TO HAVE CLEANING OUTLETS (CO)
 AT LOWEST FLOOR LEVEL FOR EASE OF
 MAINTENANCE
 ALL GSP IN LANDSCAPE AREAS TO BE
 LIGHT DUTY "CLASS A" AND ALL GSP
 WITH VEHICLE LOADING TO BE HEAVY
 DUTY "CLASS C"
 ALL PIPES TO HAVE A MIN 200mm COVER
 U.N.O.

RAINGARDEN DESIGN
 DEEMED TO COMPLY METHOD DESIGNED AS PER
 PENRITH COUNCIL WSUD TECHNICAL GUIDELINES
 ADDENDUM 1 JUNE 2015 FOR EACH KERB OUTLET
 (CATCHMENT) FOR RESIDENTIAL DEVELOPMENT
 WITH 2KL RAINWATER TANK, UTILISING
 CONSTRAINED TYPE WITH SUBMERGED ZONE.
 USING FIGURE 3.2 FOR RAINGARDEN SIZING.
 TOTAL SITE AREA=3713m²
 TOTAL ROOF=1790m²
 TOTAL PAVED=623m²
 TOTAL TURF=1290m²
 FROM FIGURE 3.2, 1.35% OF (1790-623)/4 WITH
 NO BYPASS = 8.14m² FOR EACH OUTLET
 (CATCHMENT)
 AREA REQUIRED: 8.14m² WITH 100mm EDD FOR
 EACH CATCHMENT.
 AREA PROVIDED: 8.24m² EXCLUDING PITS

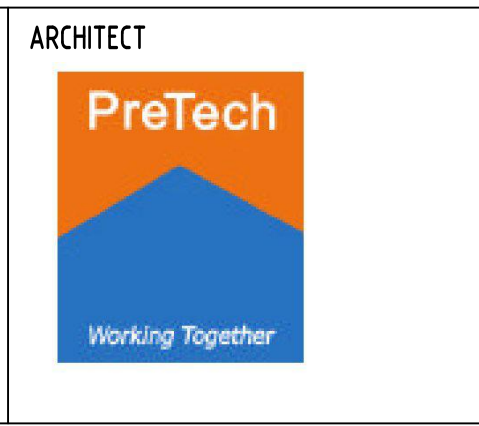
Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

QUALITY CONTROL			
Discipline	Checked By	Date	Rev.
DRAWN	LA	10.09.18	
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PROJECT
PROPOSED SEPP HOUSING DEVELOPMENT
 LOT 110, LEONAY PARADE, LEONAY

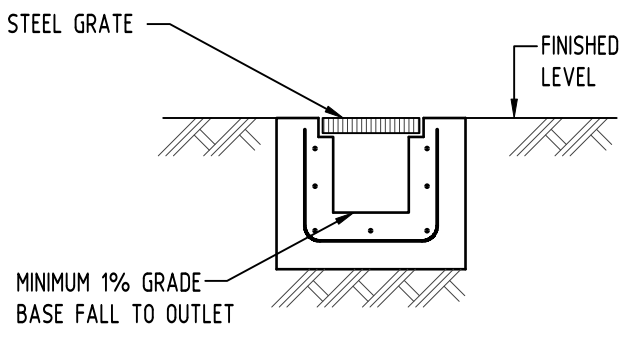
Drawing Status	PRELIMINARY
Drawing Title	STORMWATER CONCEPT DESIGN GROUND FLOOR PLAN SHEET 2 OF 2
Project No	20180063
Drawing No	SW202
Revision No	A

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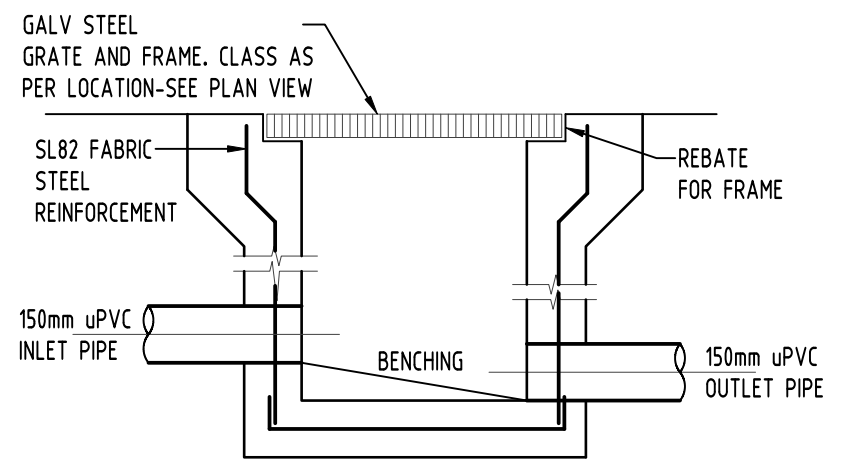


LEGEND:
BACKGROUND IS YELLOW
TEXT IS WHITE ON BLACK
BACKGROUND

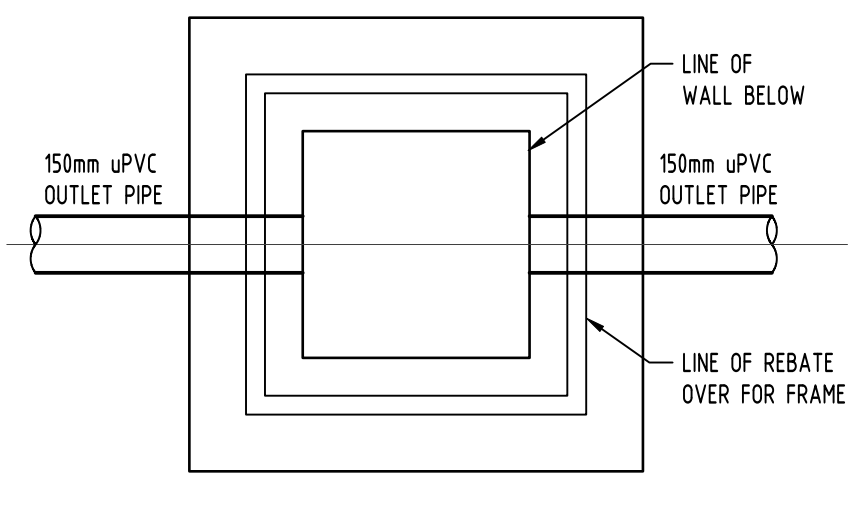
DETAIL
RAINWATER SIGN
SCALE 1:20



DETAIL
GRADED TRENCH DRAIN
SCALE 1:20

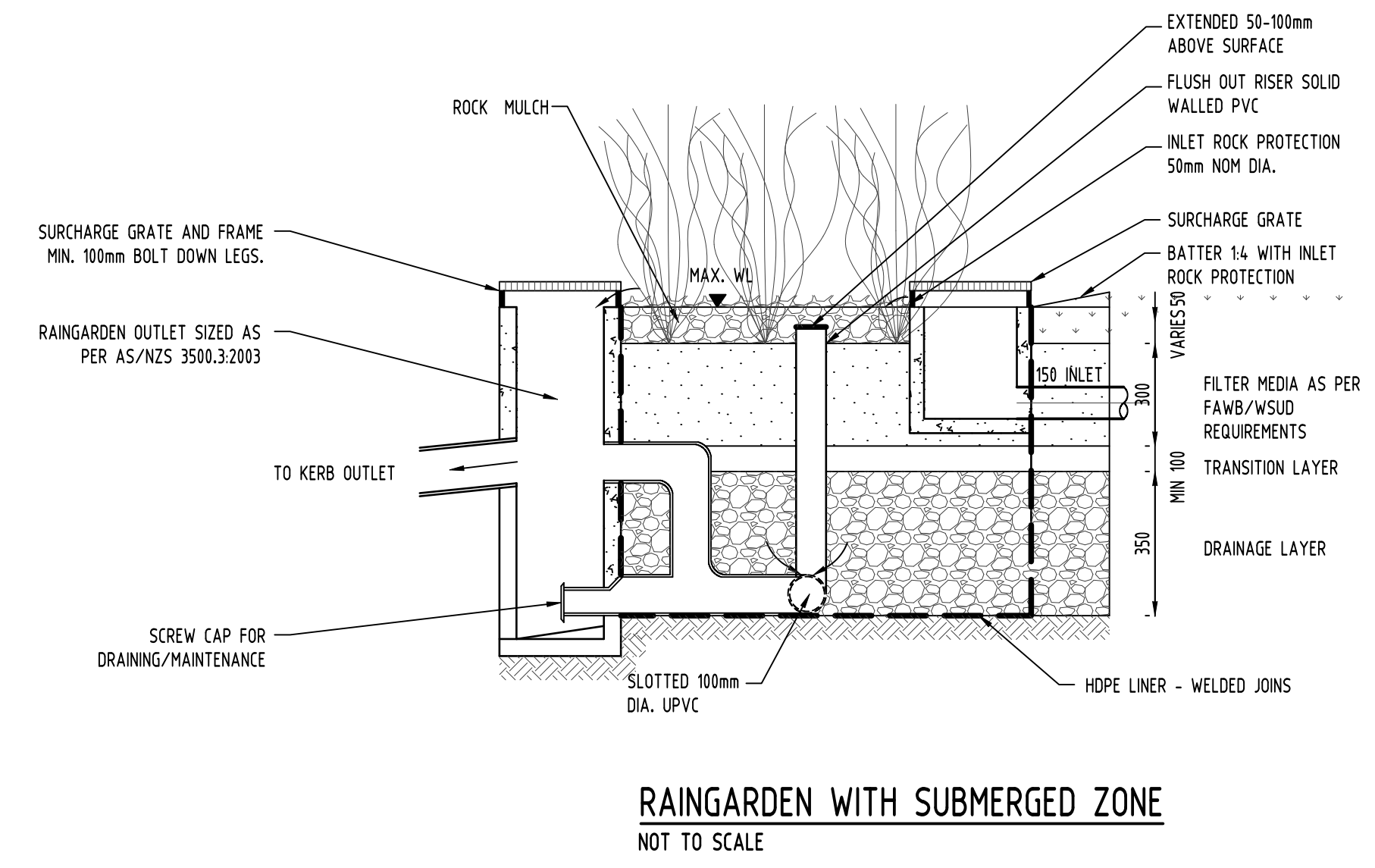


SECTION



PLAN WITHOUT GRATE

DETAIL
STORMWATER PIT
SCALE 1:20



RAINGARDEN WITH SUBMERGED ZONE
NOT TO SCALE

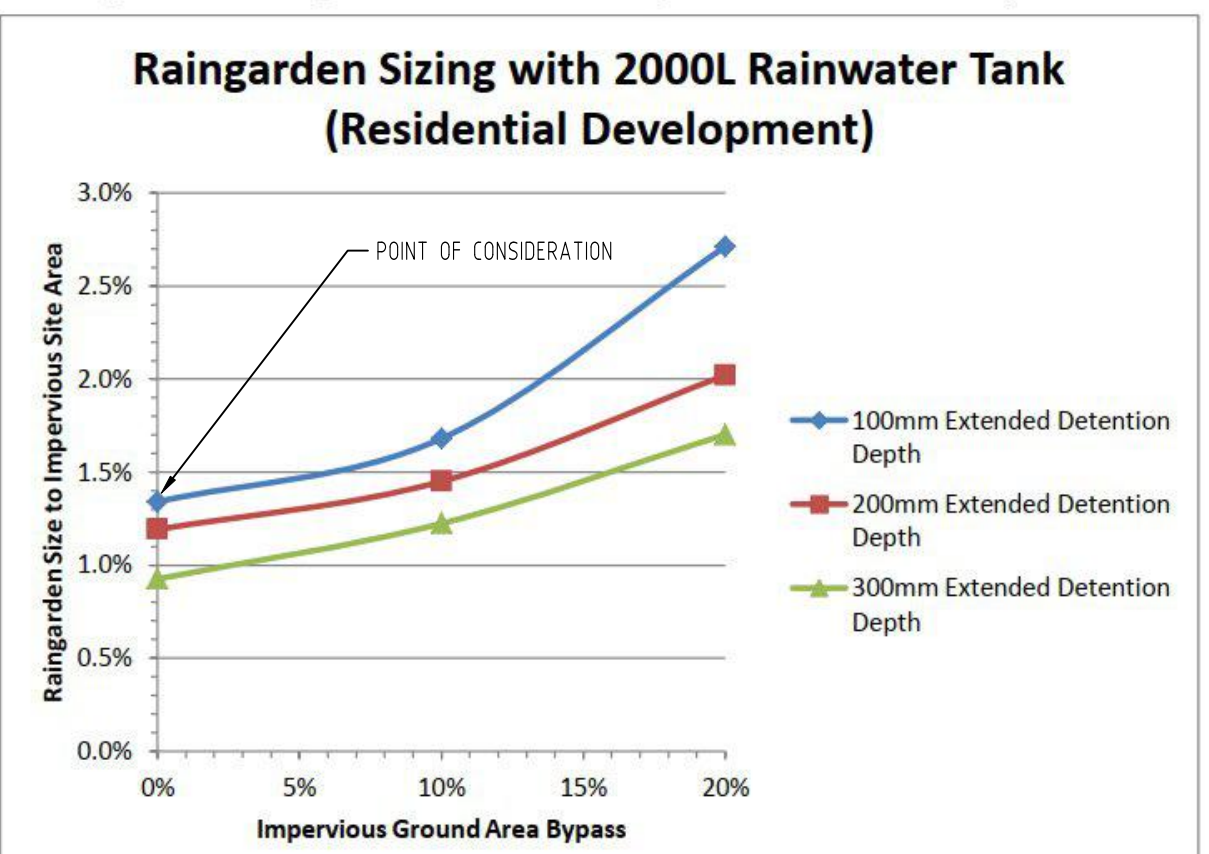
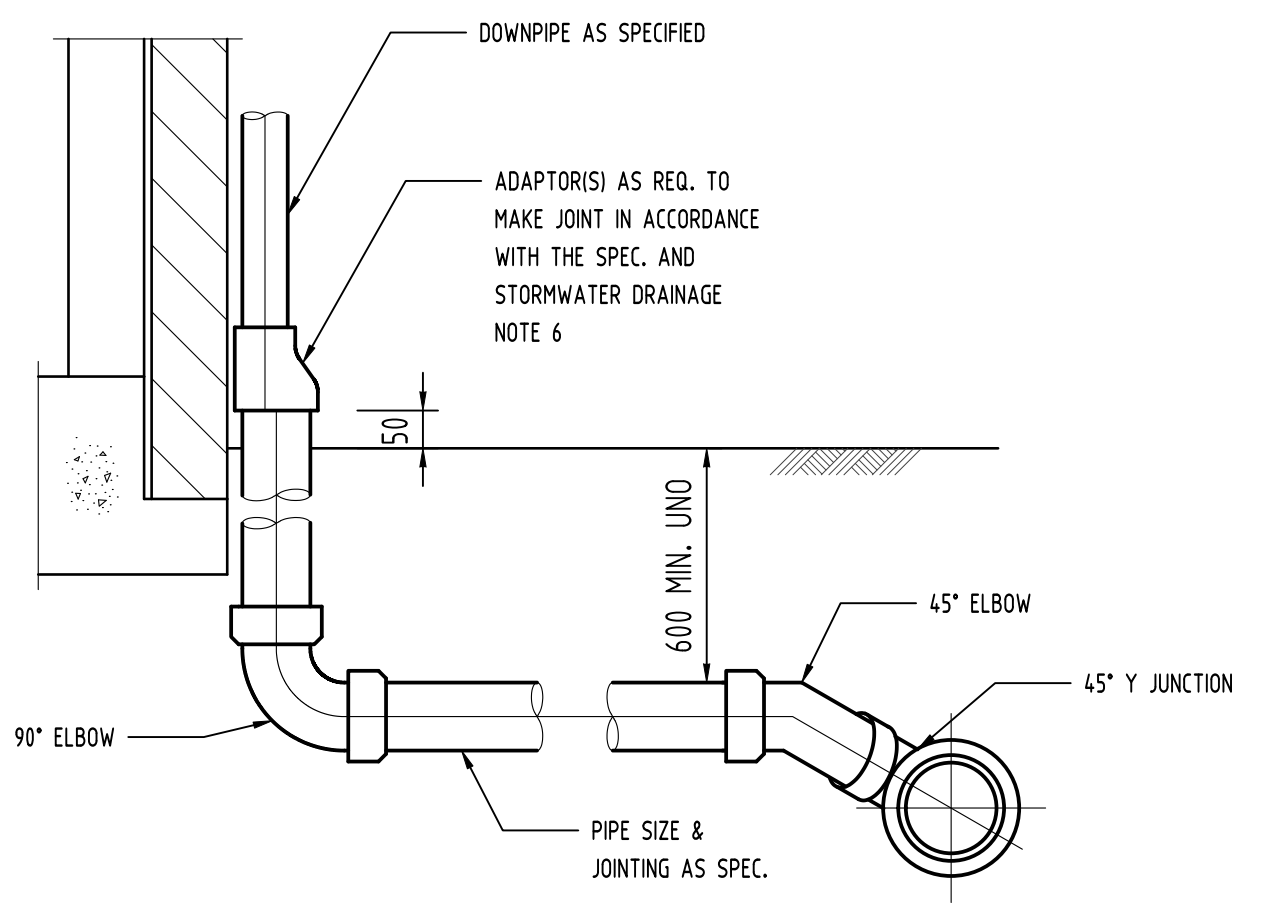
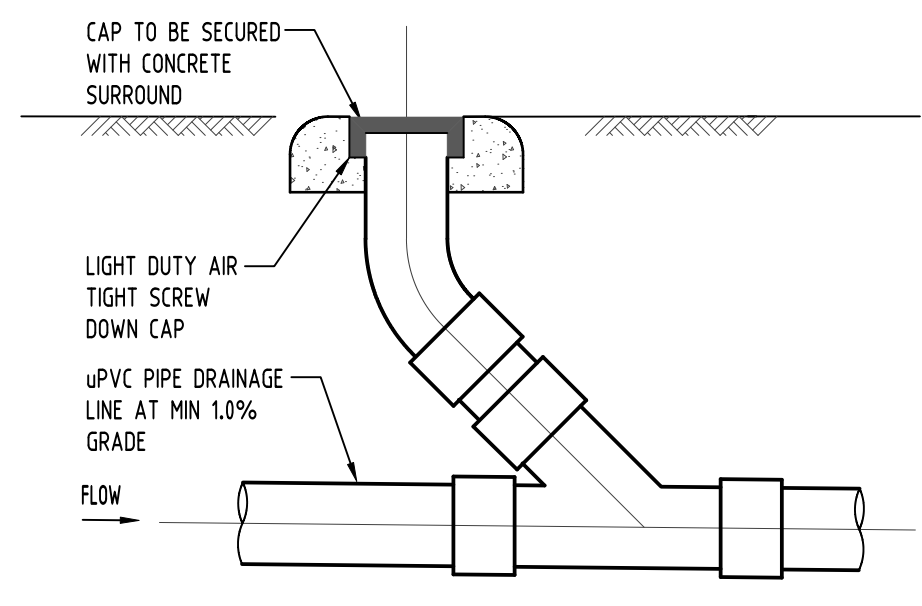


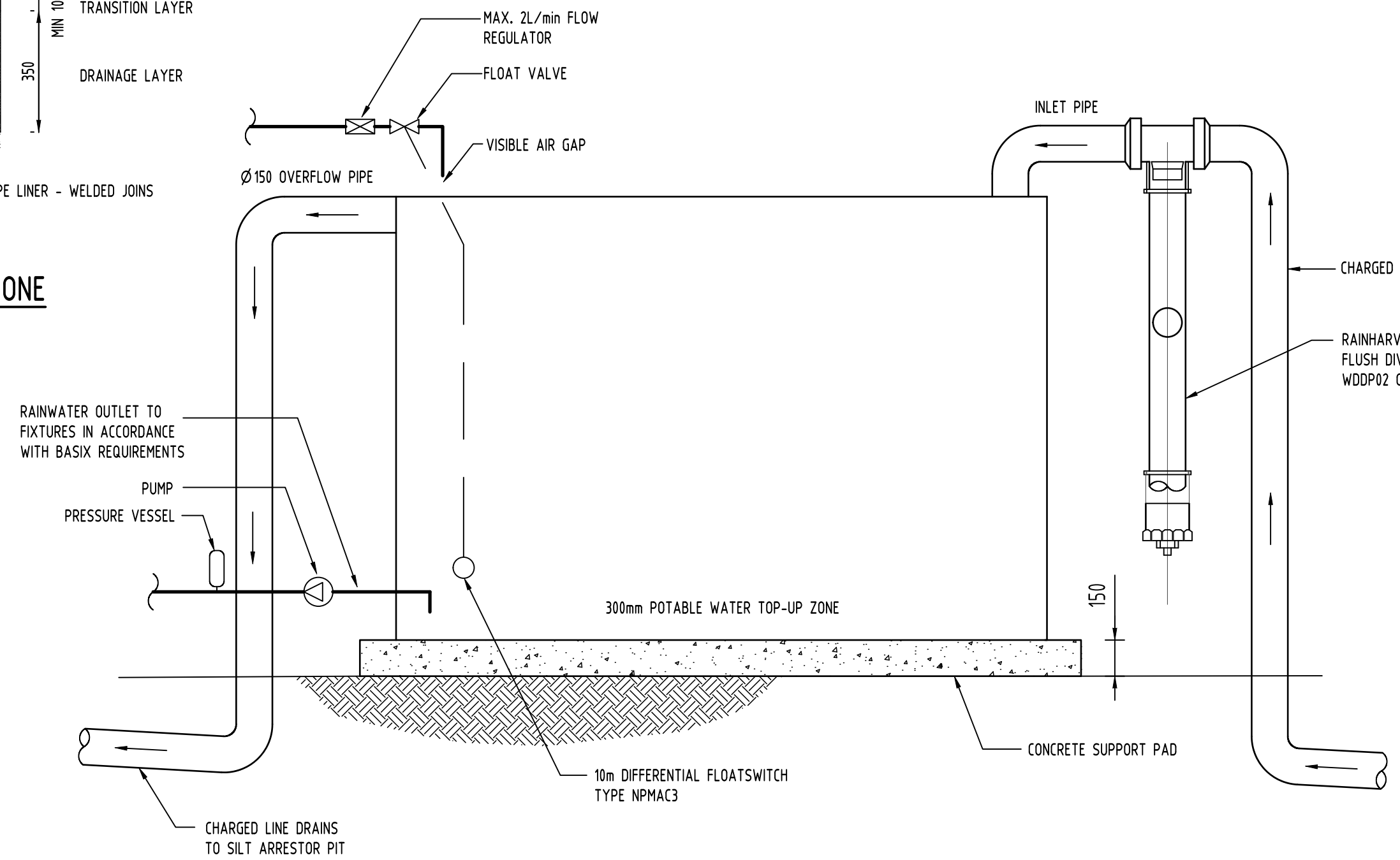
Figure 3.2 – Raingarden Filter Area Sizing with 2000L Rainwater Tank for Residential Developments



DETAIL
DOWNPIPE CONNECTION TO uPVC STORMWATER
SCALE 1:10



DETAIL
CLEANING EYE
SCALE 1:10



DETAIL
RAINWATER TANK
SCALE 1:20

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
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
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
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
PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS

DESIGN NOTES:

THE SITE IS LOCATED IN PENRITH CITY COUNCIL.
RAINWATER TANK (COUNCIL/BASIX): TBC BY ARCHITECT
SITE AREA: 3713m²
ON-SITE DETENTION/SSR/OFFSET: OSD NOT REQUIRED AS ITS NOT IN A MANDATORY OSD AREA.
PSD: 25L/S FOR 10% AEP TO KERB WITH A MAX OF TWO OUTLETS 15m APART
WSUD: REQUIRED AS PER COUNCIL POLICY IN TABLE C3.1. A DEEMED TO COMPLY METHOD WILL BE USED DUE TO SITE CONSTRAINTS. DEEMED TO COMPLY METHOD DESIGNED AS PER PENRITH COUNCIL WSUD TECHNICAL GUIDELINES ADDENDUM 1 JUNE 2015. SITE CONSTRAINTS DO NOT PERMIT THE NORMAL USE OF ANY PROPRIETARY STORMWATER DEVICES DUE TO SHALLOW PITS/ INSUFFICIENT FALL TO KERB OUTLET. THERE ARE NO NEARBY STORMWATER ASSETS BELONGING TO COUNCIL IN THE PROPOSED AREA. MUSIC MODEL & REPORT ARE NOT NEEDED.
LAND SLOPE: TO LEONAY PARADE

ABBREVIATIONS:

Ø or DIA	DIAMETER
CBR	CALIFORNIA BEARING RATIO
CH	CHAINAGE
CL	CENTER LINE
CO	CLEAR OUT
DDO	DISH CROSSING
DEJ	DISH DRAIN OUTLET
DGB	DOWELED EXPANSION JOINT
DGS	DENSE GRADED BASECOURSE
DP	DENSE GRADED SUB-BASE
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
FF	FIRST FLUSH DEVICE
GTD	GRADED TRENCH DRAIN
GSP	GRADED SURFACE INLET PIT
HYD	HYDRANT
I	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
OF	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	SAWM 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 POLY(VINYL CHLORIDE)
UNO	UNLESS NOTED OTHERWISE
WPJ	WEAKENED PLANE JOINT

LEGEND:

	STORMWATER LINE
	SUBSOIL LINE
	STORMWATER RISING MAIN
	REMOVE EXISTING STORMWATER LINE
	OVERFLOW LINE
	EXISTING STORMWATER LINE
	AUTHORITY STORMWATER LINE
	AUTHORITY SEWER LINE
	AUTHORITY WATER LINE
	AUTHORITY GAS LINE
	AUTHORITY ELECTRICITY LINE
	AUTHORITY UNDERGROUND ELECTRICITY LINE
	AUTHORITY FIBRE OPTIC LINE
	AUTHORITY COMMS LINE
	FENCE LINE
	GRADED SURFACE INLET PIT
	GRADED SURFACE INLET PIT WITH ENVIROPOD INSERT (GSP+I)
	JUNCTION PIT
	KERB INLET PIT
	EXISTING GRADED SURFACE INLET PIT
	EXISTING JUNCTION PIT
	EXISTING KERB INLET PIT
	EXISTING TELSTRA PIT
	EXISTING HYDRANT
	EXISTING STOP VALVE
	EXISTING GAS VALVE
	EXISTING POWER POLE
	EXISTING BOUNDARY TRAP
	EXISTING SEWER MANHOLE
	OVERLAND FLOW PATH
	RAINWATER OUTLET
	CLEAR OUT POINT
	DISH DRAIN OUTLET
	PLANTER DRAIN
	CAP
	PIT TAG/NUMBER
	RAINHEAD
	DROP
	DOWNPIPE
	NON RETURN VALVE
	WALL PENETRATION
	SPREADER
	WARNING LIGHT

KERB INLET PIT NOTES:

- 1. KERB INLET PITS TO BE CONSTRUCTED TO LOCAL COUNCIL STANDARDS.
- 2. ALL KERB INLET PITS TO BE CAST IN-SITU.
- 3. ALL CONCRETE SHALL BE 25MPa STRENGTH AT 28 DAYS WITH F82 MESH CENTRALLY PLACED.

AUTHORITY STORMWATER NOTES:

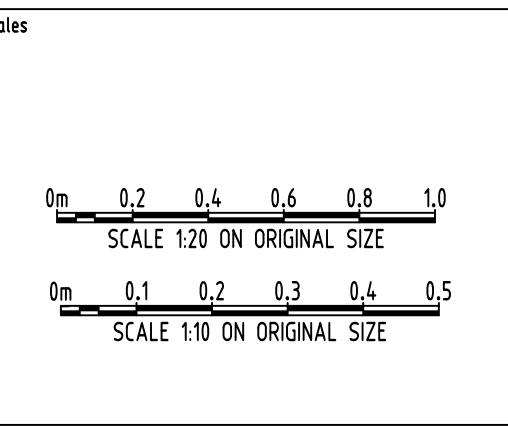
- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVELS PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDANT.
- 2. ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTERLINE OF FENCE/BOLARD/PIPE.
- 3. SMOOTH ALL TRANSITIONS BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.
- 5. NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDANT.
- 6. THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS:
PIPE BACKFILL
SELECT FILL (LESS THAN 300mm BELOW BASE COURSE)
BASE COURSE
DENSITY INDEX 75
95% STANDARD
98% MODIFIED
100% MODIFIED
- 7. THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

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.

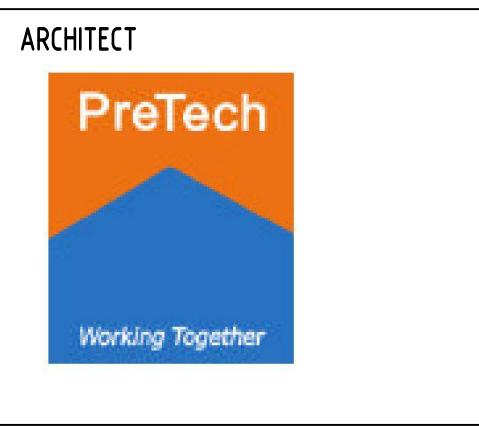
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ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FRG			
LANDS			
CIVIL			
SURVEY			

QUALITY CONTROL	DATE
DRAWN	LA 10.09.18
CHECKED	LA 10.09.18
DESIGNED	LA 10.09.18
VERIFIED	SH 24.04.18
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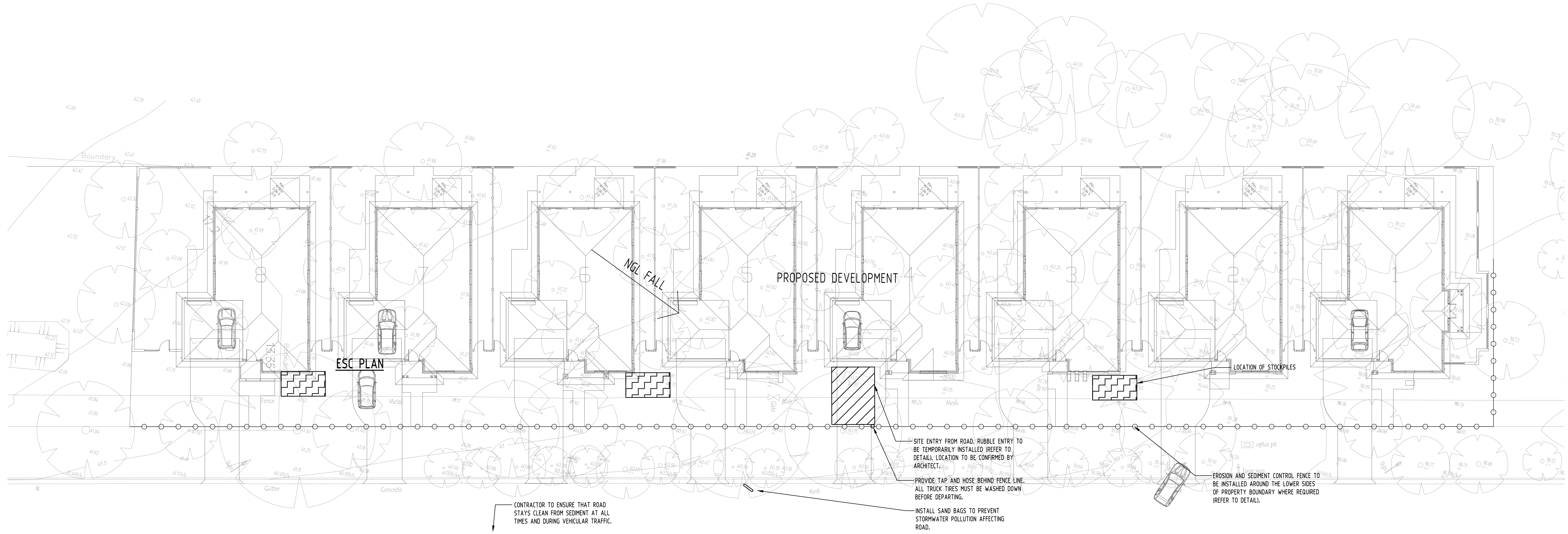


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PROJECT
PROPOSED SEPP HOUSING DEVELOPMENT
LOT 110, LEONAY PARADE, LEONAY

Drawing Status	PRELIMINARY
Drawing Title	STORMWATER CONCEPT DESIGN DETAILS SHEET
Project No	20180000
Drawing No	SW301
Revision No	A



ESC PLAN

FAIRW,

1

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Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FRG			
LANDS			
CIVIL			
SURVEY			

ENGINEERS AUSTRALIA
Chartered Professional Engineer MEMBER

QUALITY CONTROL			
STATUS	LA	DATE	
DRAWN	LA	10.09.18	
CHECKED	LA	10.09.18	
DESIGNED	LA	10.09.18	
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PROJECT
PROPOSED SEPP HOUSING DEVELOPMENT
 LOT 110, LEONAY PARADE, LEONAY

Drawing Status	PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION PURPOSES	
Drawing Title	EROSION AND SEDIMENT CONTROL PLAN
Project No	20180063
Drawing No	SW401
Revision No	A

EROSION & SEDIMENTATION CONTROL NOTES

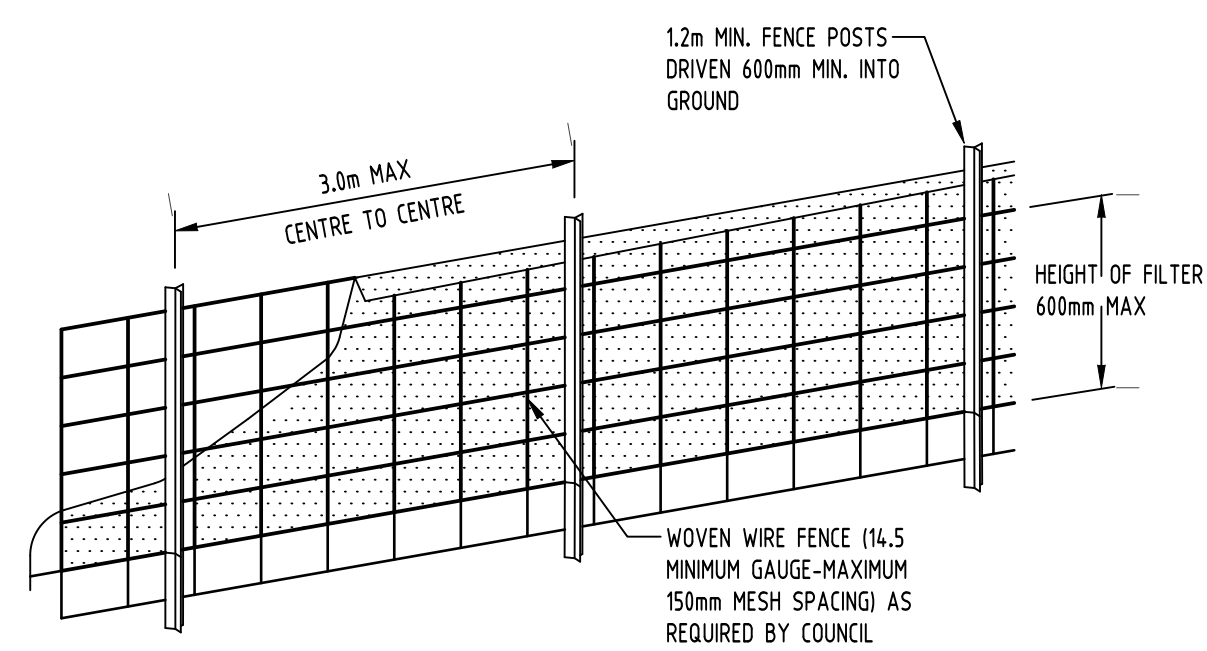
- CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. THE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

GENERAL NOTES

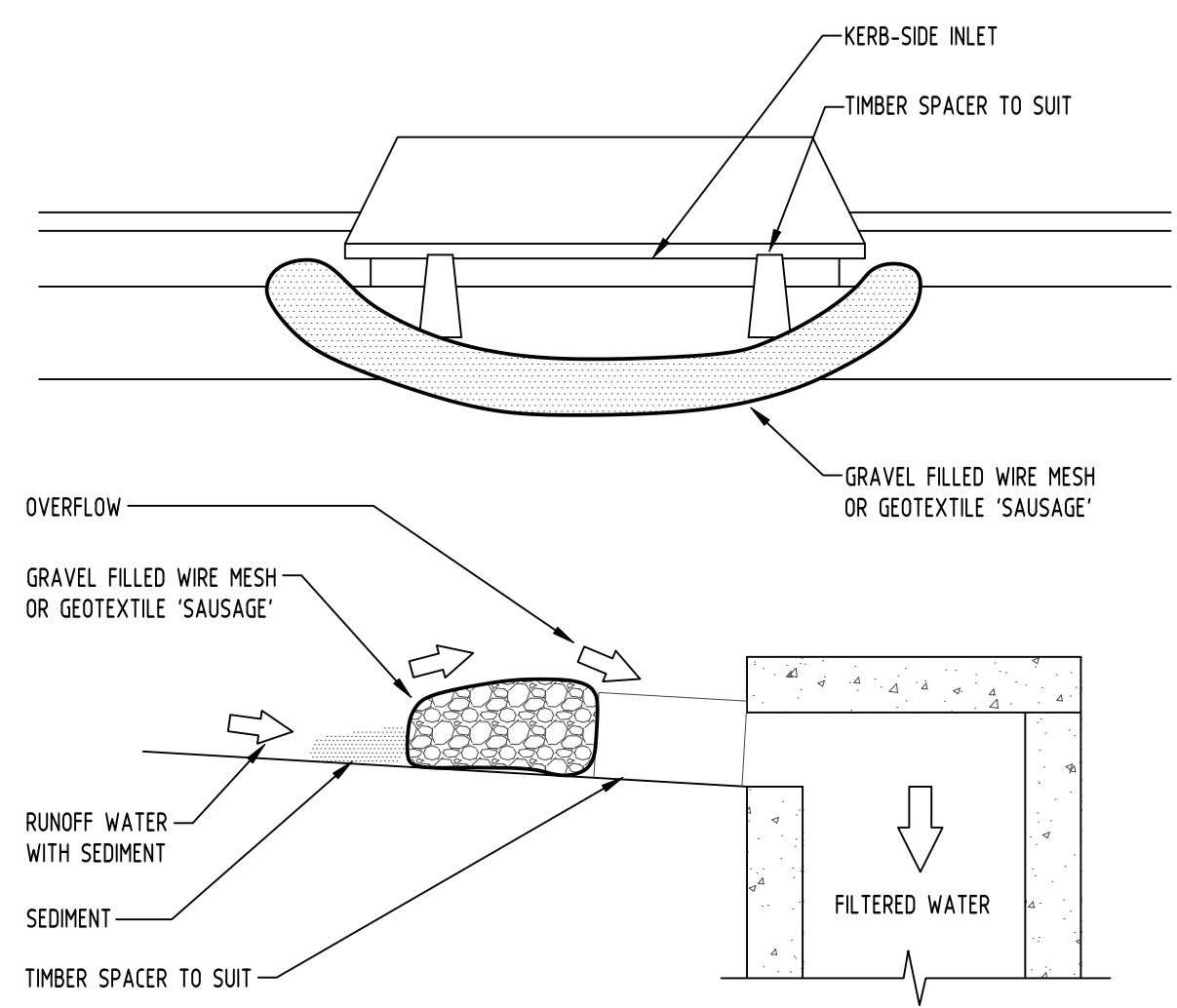
- THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
- ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

CLAY SOILS

- A SYSTEM SHALL BE INSTALLED TO EITHER:
- TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
 - TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POED 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL.

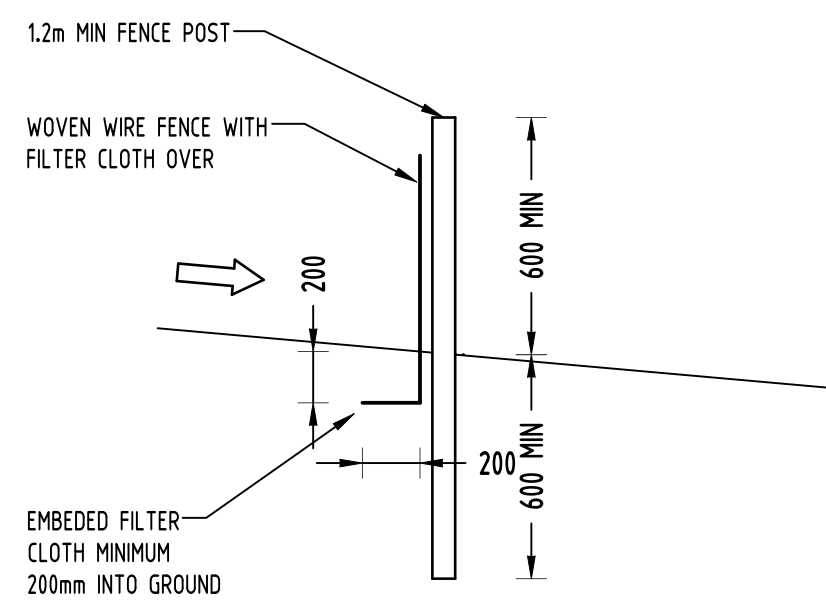


DIAGRAMMATIC VIEW



3 DETAIL
GRAVEL INLET FILTER (SAUSAGE)
NOT TO SCALE

- CONSTRUCTION NOTES:**
- FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT
 - FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL
 - FORM AN ELLIPTICAL CROSS-SECTION OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY
 - MAINTAIN THE OPENING WITH SPACER BLOCKS
 - FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER
 - FIT TO ALL KERB INLETS AT SAG POINTS

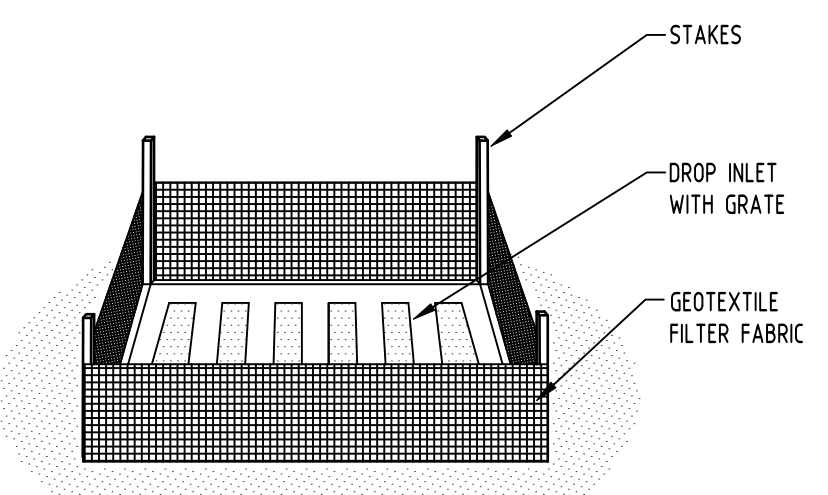


TYPICAL SECTION

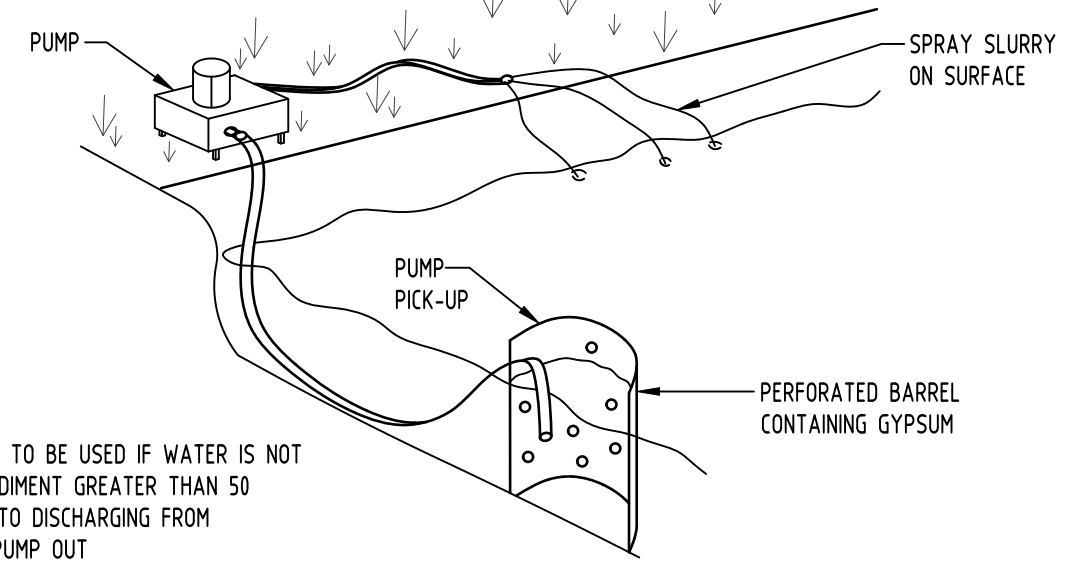
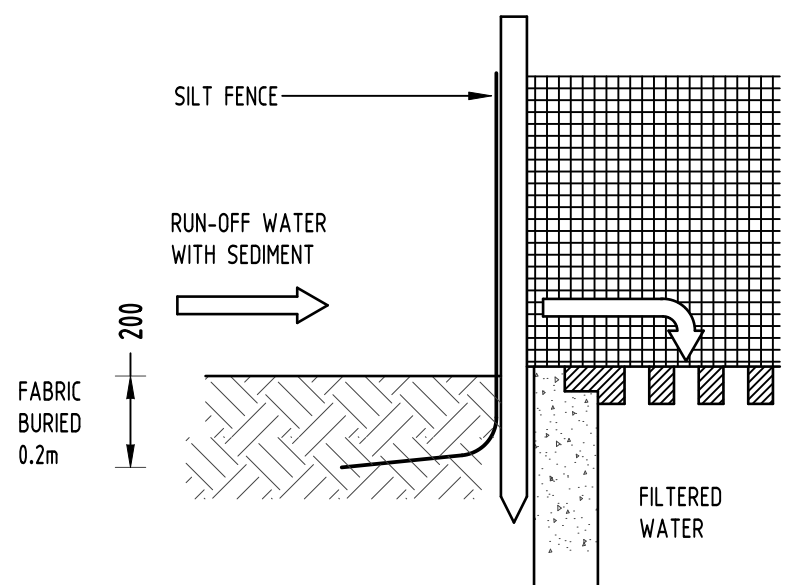
4 DETAIL
SEDIMENT FENCE
NOT TO SCALE

LEGEND

- GEOTEXTILE INLET FILTER (FOR PITS WITHIN LANDSCAPED AREAS)
- GEOTEXTILE INLET FILTER (FOR PITS WITHIN PAVEMENT AREAS)
- MESH & GRAVEL INLET FILTER
- MESH & GRAVEL KERB FILTER
- STRAW BALE FILTER

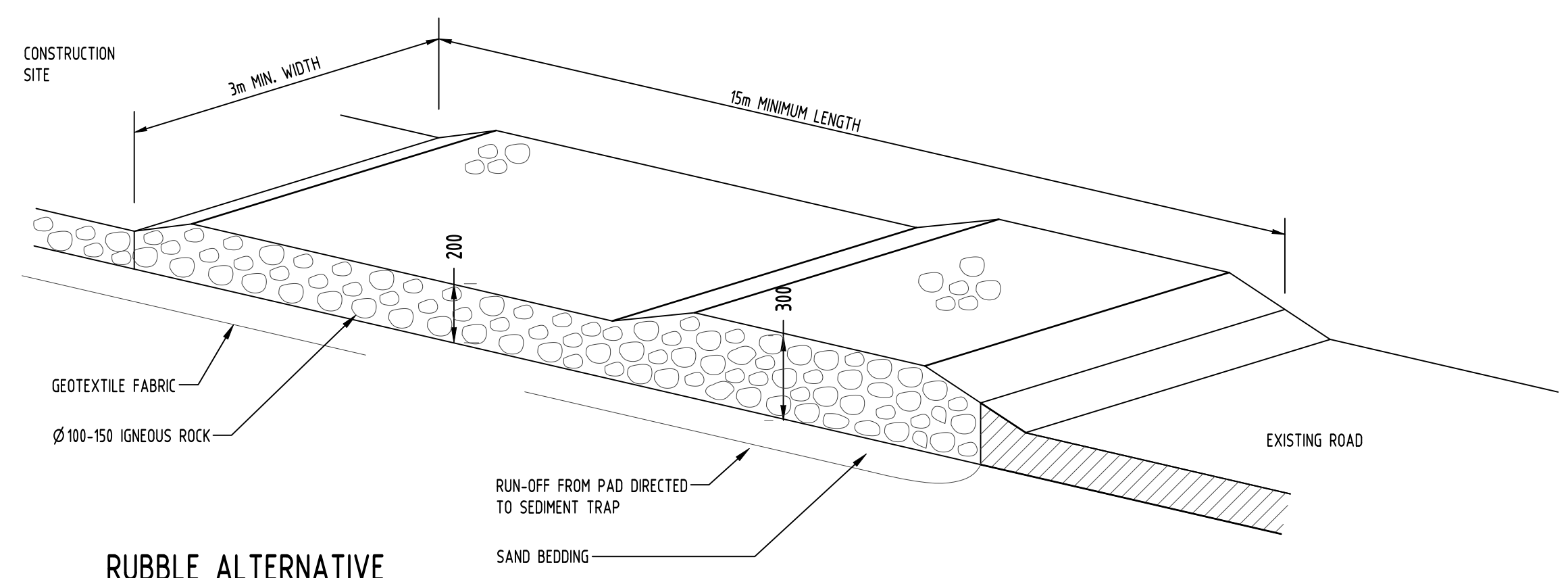


1 DETAIL
SUMP SEDIMENT TRAP
NOT TO SCALE



2 DETAIL
FLOCCULATION DETAIL
NOT TO SCALE

- NOTE:**
- FLOCCULATION TO BE USED IF WATER IS NOT CLEAR (ie. SEDIMENT GREATER THAN 50 mg/L) PRIOR TO DISCHARGING FROM TEMPORARY PUMP OUT
 - FOR RATES & AGENTS SEE APPENDIX E OF NEW SOUTH WALES DEPARTMENT OF HOUSING "MANAGING URBAN STORMWATER SOILS & CONSTRUCTION".



RUBBLE ALTERNATIVE

5 DETAIL
TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE

Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FRG			
LANDS			
CIVIL			
SURVEY			

Issue internal sequence and revision history			
Issue	Last revision title	by	Date
A	ISSUE FOR DA	LA	10.09.2018
PT	PRELIMINARY ISSUE	SCH	24.04.2018
Issue	Last revision title	by	Date

QUALITY CONTROL			
DRAWN	LA	DATE	10.09.18
CHECKED	LA	DATE	10.09.18
DESIGNED	LA	DATE	10.09.18
VERIFIED	SH	DATE	24.04.18
APPROVED	SH	DATE	24.04.18

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PROJECT
PROPOSED SEPP HOUSING DEVELOPMENT
LOT 110, LEONAY PARADE, LEONAY

Drawing Status	PRELIMINARY
Drawing Title	NOT TO BE USED FOR CONSTRUCTION PURPOSES
EROSION AND SEDIMENT CONTROL DETAILS	
Project No	20180063
Drawing No	SW402
Revision No	A