

PROJECT: SHOP TOP HOUSING DEVELOPMENT

PLANSET: CONCEPT STORMWATER DRAINAGE PLAN

CLIENT: LOTUS PROJECT MANAGEMENT PTY LTD

DRAWING LIST		
DWG NO.	REV	DWG TITLE
GENERAL		
PS03-A000	C	COVER SHEET
CONSTRUCTION MANAGEMENT WORKS		
PS03-B300	B	SEDIMENT & EROSION CONTROL PLAN
PS03-B310	A	SEDIMENT & EROSION CONTROL DETAILS
DRAINAGE		
PS03-E100	B	DRAINAGE PLAN - GROUND FLOOR
PS03-E101	A	DRAINAGE PLAN - ROOF PLAN
PS03-E200	C	DRAINAGE DETAILS
PS03-E600	B	OSD CATCHMENT PLANS & RESULTS



LOCALITY PLAN
NOT TO SCALE

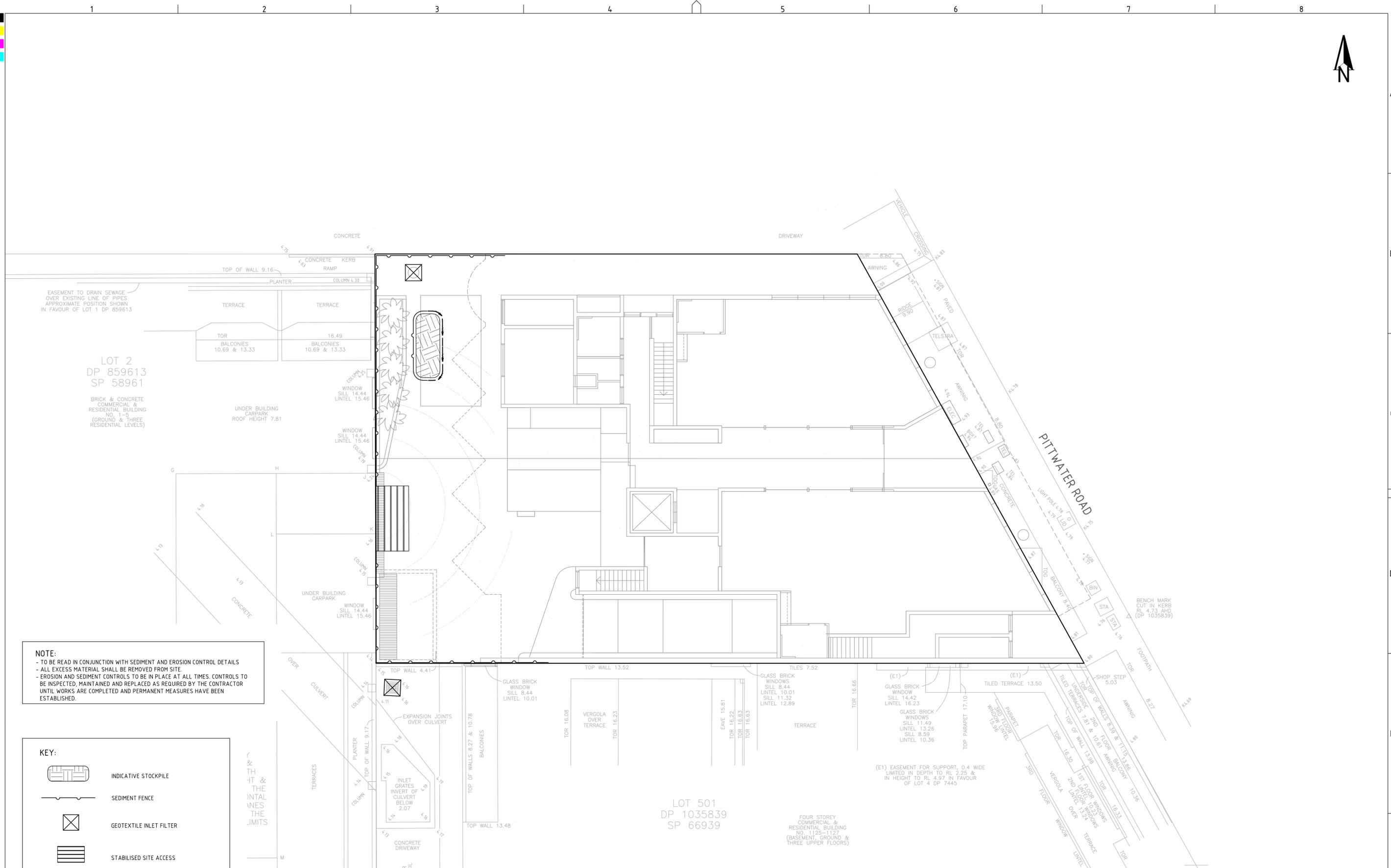
LGA: NORTHERN BEACHES COUNCIL

1129-1131 PITTWATER ROAD, COLLAROY, NSW, 2097
LOT 4 DP 7445 AND LOT 1

DP: 859613

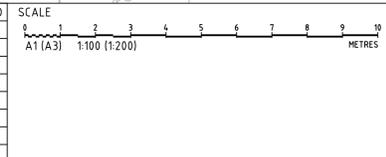
DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE		
C	MINOR AMENDMENT	28/10/2020	JS	SL	SL	TH		---	---	TH	LOTUS PROJECT MANAGEMENT PTY LTD	COVERSHEET		
B	MINOR AMENDMENT	31/03/2020	JS	SS	SL	TH								
A	INITIAL RELEASE	26/09/2019	LL	SS	SL	AN								
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PROJECT NO. P1907336		PLANSET NO. PS03		RELEASE NO. R04		DRAWING NO. PS03-A000		REVISION C		Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au				



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B	MINOR AMENDMENT	31/03/2020	JS	SS	SL	TH
A	INITIAL RELEASE	26/09/2019	LL	SS	SL	AN



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PROJECT NAME/PLANSSET TITLE
**SHOP TOP HOUSING DEVELOPMENT
 CONCEPT STORMWATER DRAINAGE PLAN**

1129-1131 PITTWATER ROAD, COLLARARY NSW, 2097
 LOT 4 DP 7445 AND LOT 1 DP 859613

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 Environment Water Geotechnical Civil

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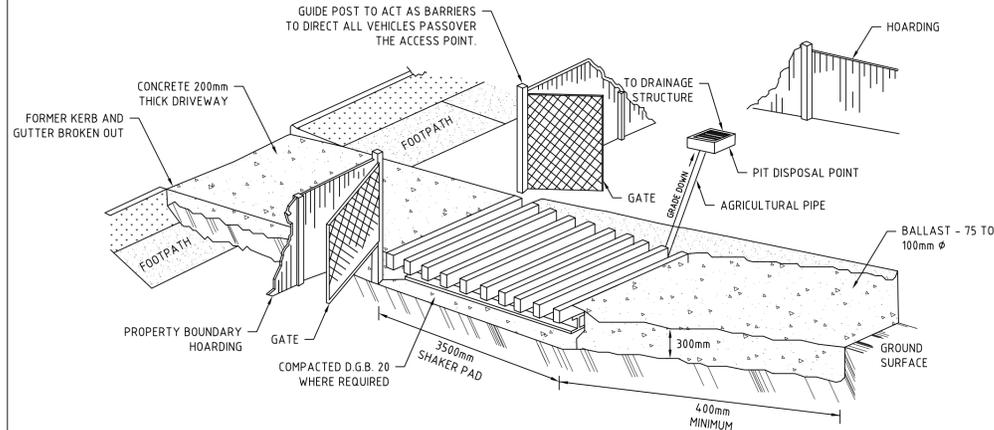
DRAWING TITLE				
SEDIMENT & EROSION CONTROL PLAN				
PROJECT NO.	PLANSSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS03	R04	PS03-B300	B

STABILISED ACCESS POINT

TYPE II SAP

THE TYPE II SAP DESIGN IS MORE DEFINED IN THAT IT REQUIRES AN AREA OF BALLAST WITHIN THE SITE COMBINED WITH A SHAKER PAD, ADJACENT TO THE SHAKER PAD AND IN THE PUBLIC WAY IS A TEMPORARY (CONCRETE) VEHICULAR CROSSING. (SEE DIAGRAM)

STABILISED ACCESS POINT - TYPE 2



IN BOTH TYPE I AND TYPE II SAP'S, THE TEMPORARY VEHICULAR CROSSING MUST:

- CONNECT TO AN EXISTING GUTTER LAYBACK (WHERE THE KERB AND GUTTER EXIST). IF A GUTTER LAYBACK DOES NOT EXIST THEN THE CONNECTION MUST BE MADE TO THE GUTTER BY REMOVING THE ADJACENT KERB SECTION ONLY.
- CONNECT TO A DISH CROSSING (WHERE KERB AND GUTTER DOES NOT EXIST). IF A DISH CROSSING DOES NOT EXIST, THEN IT MUST BE CONSTRUCTED IN ACCORDANCE WITH DETAILS CONTAINED IN COUNCIL'S ISSUED FOOTPATH CROSSING LEVELS.

IT SHOULD BE NOTED THAT THESE TYPES OF SAPS ARE CONSIDERED TO BE APPLICABLE FOR THE MAJORITY OF ACTIVITIES HOWEVER SOME SITES MAY REQUIRE SPECIAL CONSIDERATION.

SHAKER PAD (CATTLE GRID)

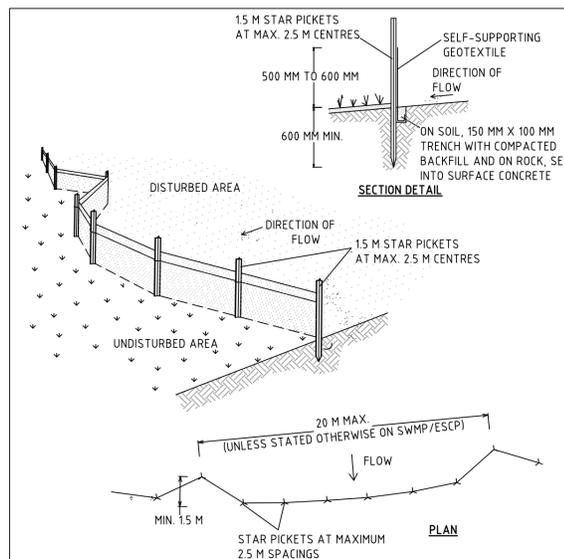
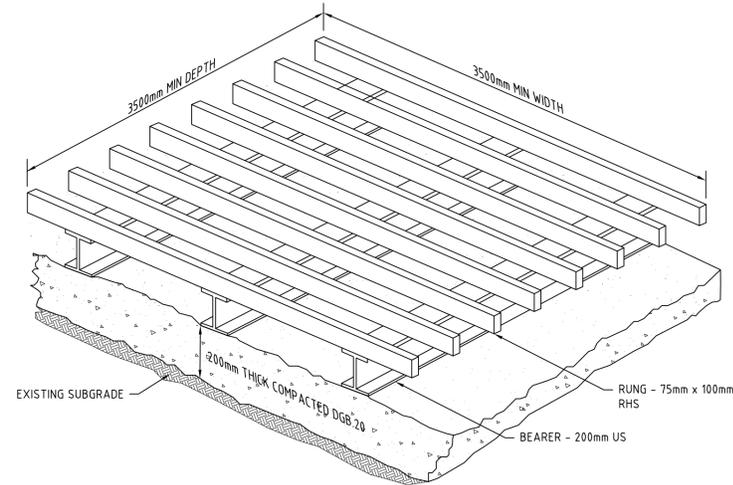
A CORRECTLY DESIGNED AND INSTALLED SHAKER PAD WILL ASSIST IN PREVENTING SEDIMENT TRANSFER FROM A SITE. ANY STABILISED ACCESS POINT (SAP) CAN BE DESIGNED WITH A SHAKER PAD (COMPULSORY IN TYPE II SAP'S)

SHAKER PADS CAN BE DESIGNED AND CONSTRUCTED TO ENABLE RE-USE ON FUTURE PROJECTS.

THE SHAKER PAD:

- MUST BE DESIGNED AND CERTIFIED BY A PRACTISING STRUCTURAL ENGINEER. THE CERTIFIED DESIGN SHOULD BE SUBMITTED WITH THE RELEVANT APPLICATION.
- CAN BE CONSTRUCTED FROM ANY SUITABLE MATERIAL.
- MUST BE LOCATED ON A SUITABLY PREPARED AND COMPACTED SUB-GRADE/BASE MATERIAL.
- MUST BE SITUATED SUCH THAT THE RUNGS OF THE SHAKER PAD ARE LEVEL WITH THE ADJOINING NATURAL SURFACE.
- MUST BE A MINIMUM OF 3.5m IN LENGTH.
- MUST BE A MINIMUM OF 3.5m IN WIDTH.
- MUST HAVE CLEAR SPACING BETWEEN RUNGS OF 200 - 250mm.
- RUNGS MUST HAVE A MAXIMUM WIDTH (BEARING AREA) OF 75mm.
- MUST HAVE A MINIMUM CLEAR DEPTH OF 300mm IE FORM THE TOP OF THE RUNG TO THE FINISHED SUB-GRADE/BASE LEVEL.

THE SHAKER PAD MUST BE PROVIDED WITH SUITABLE BARRIERS AT THE SIDES TO ENSURE THAT ALL TYERS OF VEHICLES LEAVING THE SITE TRAVERSE THE DEVICE.

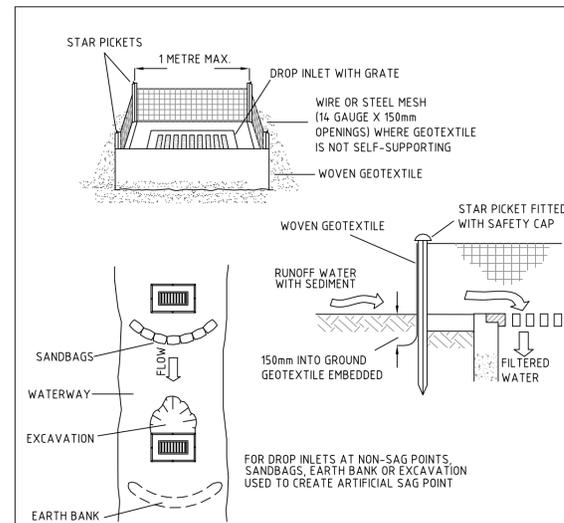


CONSTRUCTION NOTES

- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
- CUT A 150-MM DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- DRIVE 15 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150-MM OVERLAP.
- BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE

SD 6-8

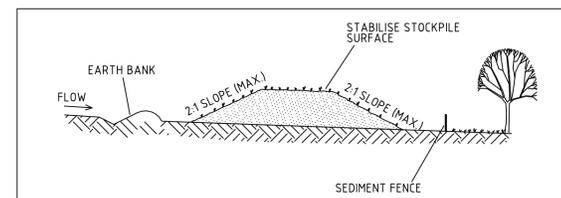


CONSTRUCTION NOTES

- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOTEXTILE. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
- IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
- DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SD 6-12



CONSTRUCTION NOTES

- PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
- WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
- CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

STOCKPILES

SD 4-1

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A	INITIAL RELEASE	26/09/2019	LL	SS	SL	AN	

GRID	DATUM	PROJECT MANAGER	CLIENT
		AN	LOTUS PROJECT MANAGEMENT PTY LTD

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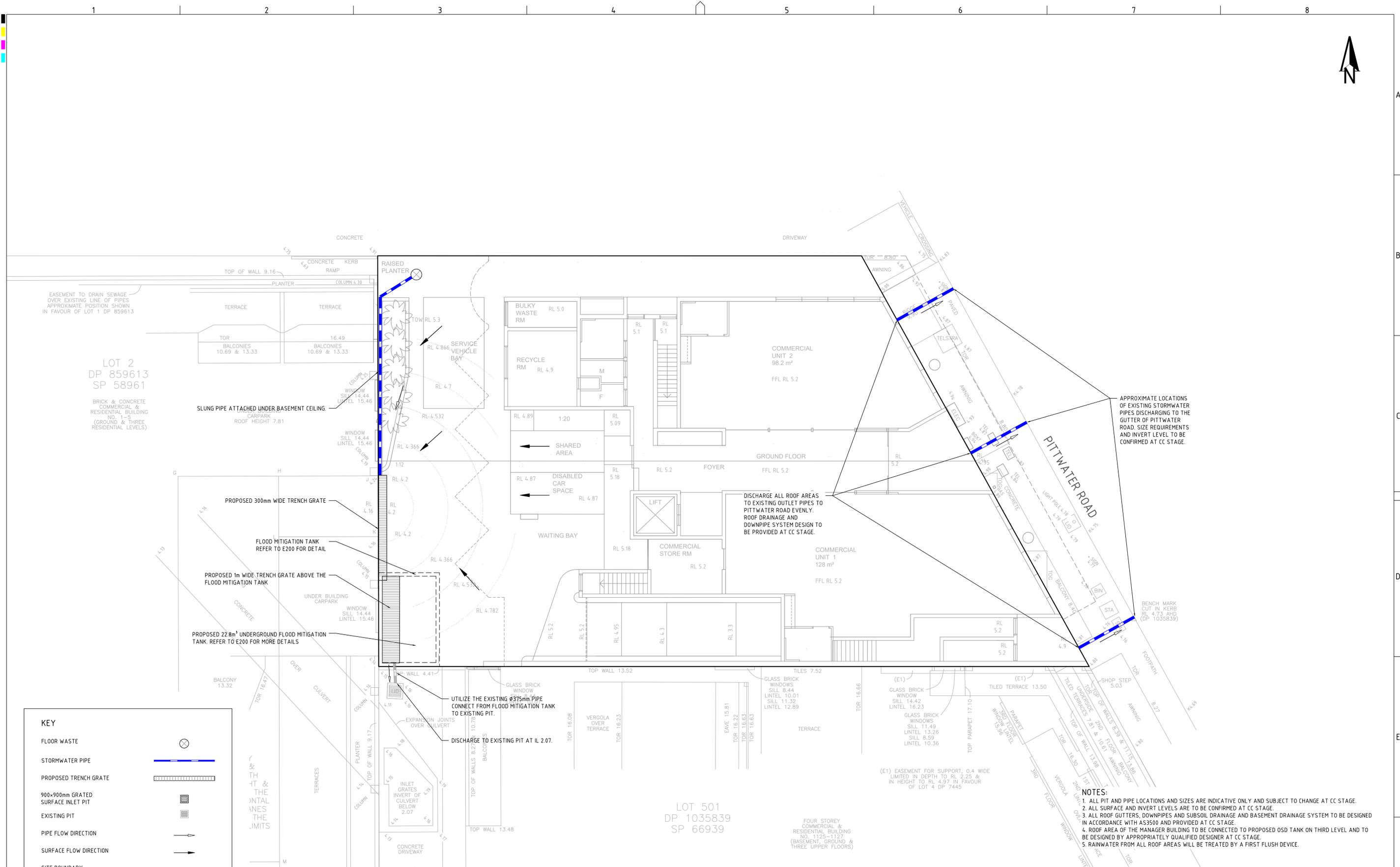
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DRAWING TITLE				
SEDIMENT & EROSION CONTROL DETAILS				
PROJECT NO.	PLANSSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS03	R04	PS03-B310	A

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AT 7 A3 LANDSCAPE (A)LC_v02.0.01

DRAWING ID: P1907336-PS03-R04-B310



APPROXIMATE LOCATIONS OF EXISTING STORMWATER PIPES DISCHARGING TO THE GUTTER OF PITTWATER ROAD. SIZE REQUIREMENTS AND INVERT LEVEL TO BE CONFIRMED AT CC STAGE.

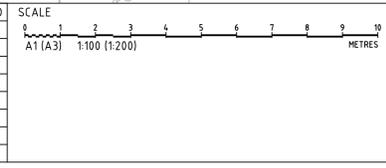
DISCHARGE ALL ROOF AREAS TO EXISTING OUTLET PIPES TO PITTWATER ROAD EVENLY. ROOF DRAINAGE AND DOWNPIPE SYSTEM DESIGN TO BE PROVIDED AT CC STAGE.

UTILIZE THE EXISTING 437.5mm PIPE CONNECT FROM FLOOD MITIGATION TANK TO EXISTING PIT.
DISCHARGE TO EXISTING PIT AT IL 2.07.

- NOTES:**
1. ALL PIT AND PIPE LOCATIONS AND SIZES ARE INDICATIVE ONLY AND SUBJECT TO CHANGE AT CC STAGE.
 2. ALL SURFACE AND INVERT LEVELS ARE TO BE CONFIRMED AT CC STAGE.
 3. ALL ROOF GUTTERS, DOWNPIPES AND SUBSOIL DRAINAGE AND BASEMENT DRAINAGE SYSTEM TO BE DESIGNED IN ACCORDANCE WITH AS3500 AND PROVIDED AT CC STAGE.
 4. ROOF AREA OF THE MANAGER BUILDING TO BE CONNECTED TO PROPOSED OSD TANK ON THIRD LEVEL AND TO BE DESIGNED BY APPROPRIATELY QUALIFIED DESIGNER AT CC STAGE.
 5. RAINWATER FROM ALL ROOF AREAS WILL BE TREATED BY A FIRST FLUSH DEVICE.

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GRID
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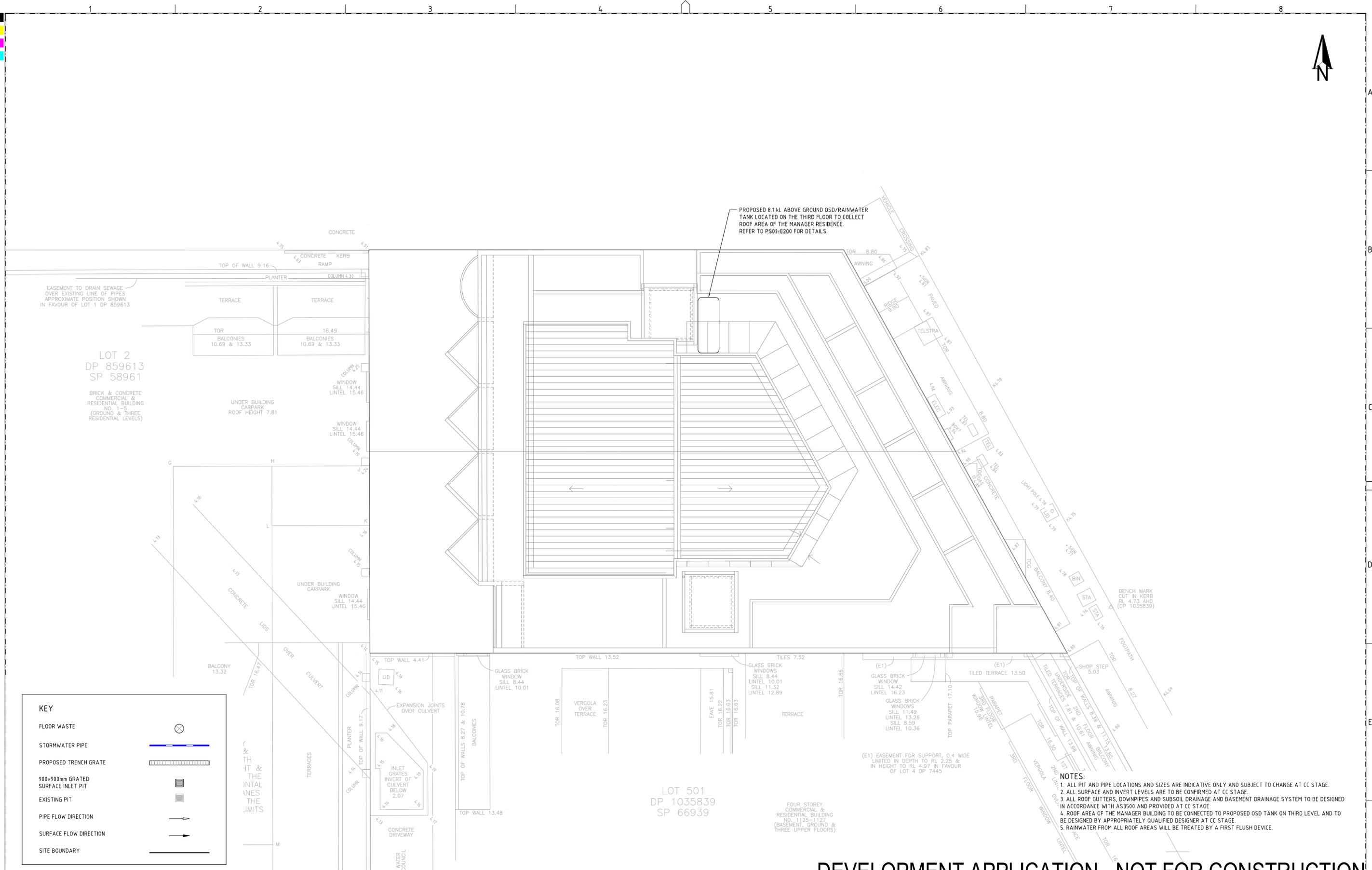
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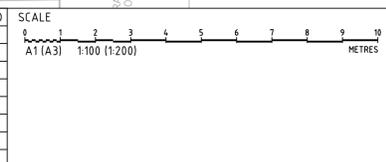
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DRAWING TITLE				
DRAINAGE PLAN GROUND FLOOR				
PROJECT NO.	PLANSSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS03	R04	PS03-E100	B



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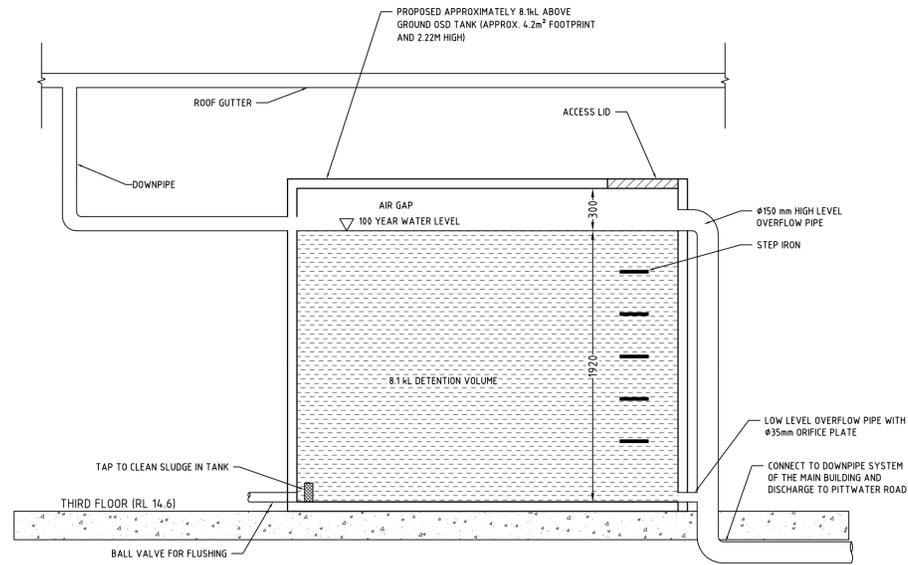
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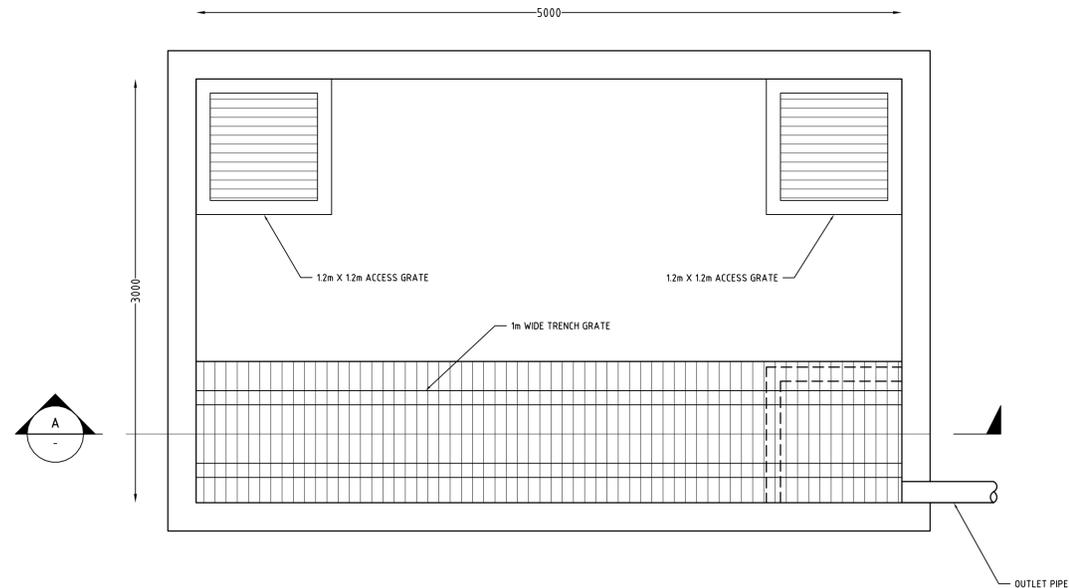


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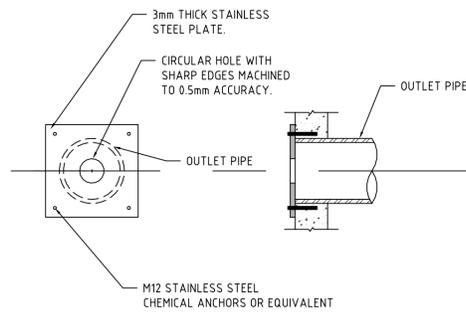
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DRAINAGE PLAN ROOF PLAN				
PROJECT NO.	PLANSSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS03	R04	PS03-E101	A



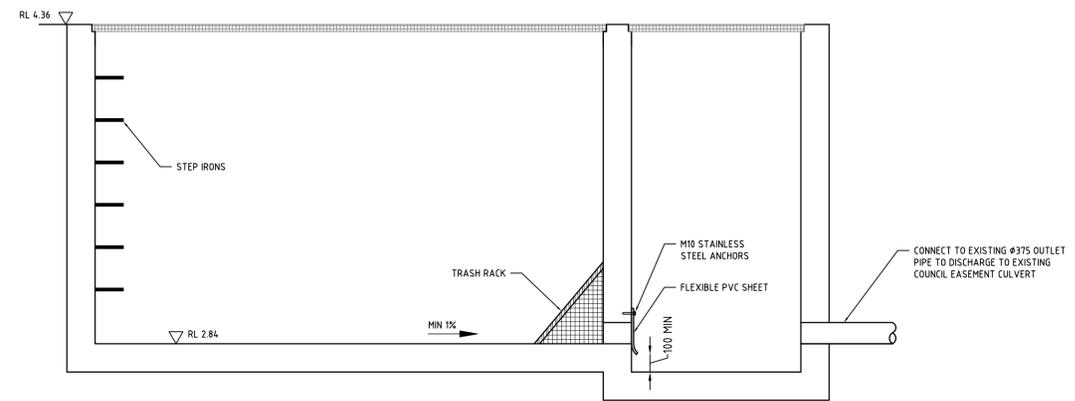
**ABOVE GROUND OSD CONFIGURATION
(SCHEMATIC DIAGRAM ONLY)**
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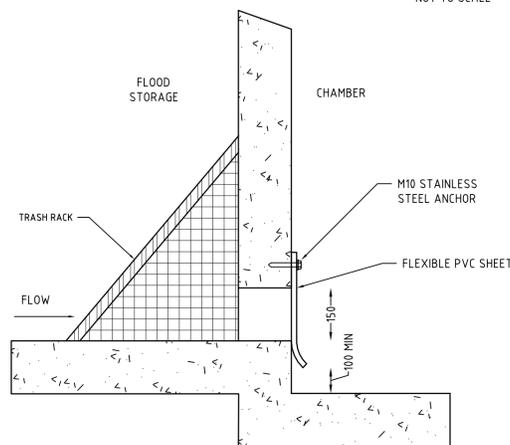
FLOOD MITIGATION TANK (SCHEMATIC) PLAN
NOT TO SCALE



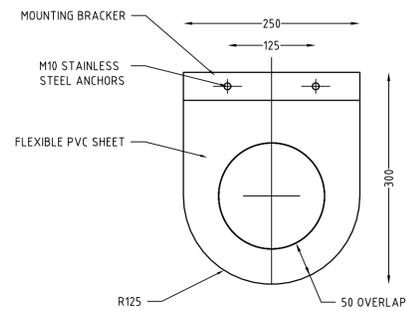
ORIFICE PLATE DETAIL
NOT TO SCALE



FLOOD MITIGATION TANK (SECTION A-A)
NOT TO SCALE



NON-RETURN FLAP MOUNTING
NOT TO SCALE



NON-RETURN FLAP MIN DIMENSIONS
NOT TO SCALE

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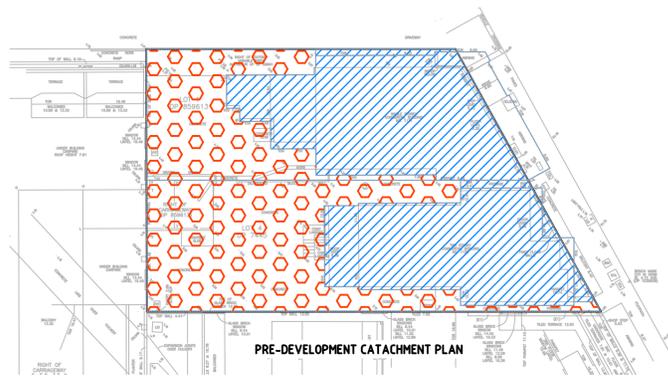
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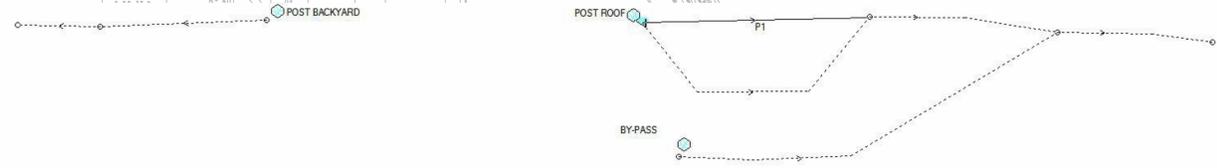
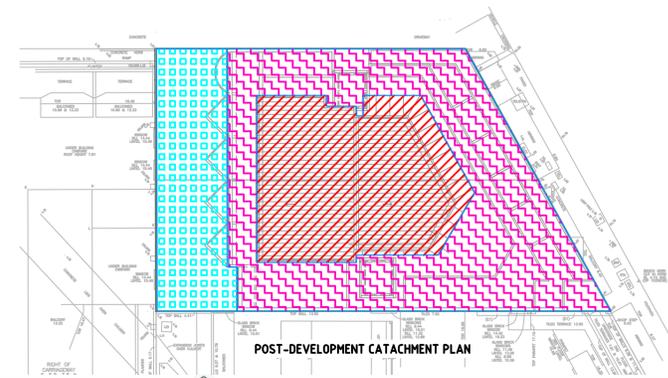
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DRAWING TITLE				
OSD/RAINWATER TANK DETAILS				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS03	R04	PS03-E200	C



EXISTING CATCHMENTS (P1907336DRN02V07)

KEY	ROOF	DRAINS NODE	AREA (ha)	% PAVED
[Blue Hatching]	ROOF	PRE ROOF	0.0423	100%
		IMPERVIOUS AREA	0.0423	= 100% OF TOTAL AREA
		PERVIOUS AREA	0.0000	= 0% OF TOTAL AREA
[Orange Circles]	BACKYARD	PRE BACKYARD	0.0391	100%
		IMPERVIOUS AREA	0.0391	= 100% OF TOTAL AREA
		PERVIOUS AREA	0.0000	= 0% OF TOTAL AREA
		TOTAL AREA	0.0814	



PROPOSED CATCHMENTS (P1907336DRN02V07)

KEY	ROOF	DRAINS NODE	AREA (ha)	% PAVED
[Pink Hatching]	ROOF	POST ROOF	0.0255	100
		POST ROOF BYPASS	0.0398	
		TOTAL ROOF AREA	0.0653	= 100% OF TOTAL AREA
		IMPERVIOUS AREA	0.0653	= 100% OF TOTAL AREA
[Blue Squares]	BACKYARD	POST BACKYARD	0.0161	100
		TOTAL PYPASS AREA	0.0161	= 100% OF TOTAL AREA
		IMPERVIOUS AREA	0.0161	= 100% OF TOTAL AREA
		PERVIOUS AREA	0.0000	= 0% OF TOTAL AREA
		TOTAL AREA	0.0814	

DRAINS OSD MODELLING RESULTS

MODEL NAME: P1907336DRN02V07

BACKYARD DRAINING TO THE COUNCIL DRAINAGE EASEMENT

STORM EVENT*	Pre	Post	Difference
0.2 EY	0.016	0.007	-0.009
10% AEP	0.019	0.008	-0.011
5% AEP	0.021	0.005	-0.016
2% AEP	0.025	0.010	-0.015
1% AEP	0.028	0.012	-0.016

* based on critical storm duration of 5 minutes.

ROOF DRAINING TO PITTWATER ROAD

STORM EVENT*	Pre	Post	Difference
0.2 EY	0.018	0.018	0.000
10% AEP	0.020	0.020	0.000
5% AEP	0.023	0.023	0.000
2% AEP	0.027	0.027	0.000
1% AEP	0.030	0.030	0.000

* based on critical storm duration of 5 minutes.

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

<table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWN</th> <th>DESIGNED</th> <th>CHECKED</th> <th>APPRVD</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>MINOR AMENDMENT</td> <td>31/03/2020</td> <td>JS</td> <td>SS</td> <td>SL</td> <td>TH</td> </tr> <tr> <td>A</td> <td>INITIAL RELEASE</td> <td>26/09/2019</td> <td>LL</td> <td>SS</td> <td>SL</td> <td>AN</td> </tr> </tbody> </table>	REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	B	MINOR AMENDMENT	31/03/2020	JS	SS	SL	TH	A	INITIAL RELEASE	26/09/2019	LL	SS	SL	AN	<p>SCALE</p>	<table border="1"> <tr> <th>GRID</th> <th>DATUM</th> <th>PROJECT MANAGER</th> <th>CLIENT</th> </tr> <tr> <td>MGA</td> <td>mAHD</td> <td>TH</td> <td>LOTUS PROJECT MANAGEMENT PTY LTD</td> </tr> </table>	GRID	DATUM	PROJECT MANAGER	CLIENT	MGA	mAHD	TH	LOTUS PROJECT MANAGEMENT PTY LTD	<p>PROJECT NAME/PLANSET TITLE</p> <p>SHOP TOP HOUSING DEVELOPMENT CONCEPT STORMWATER DRAINAGE PLAN</p> <p>1129-1131 PITTWATER ROAD, COLLAROY, NSW, 2097 LOT 4 DP 7445 AND LOT 1 DP 859613</p>	<p>Consulting Engineers Environment Water Geotechnical Civil</p> <p>Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8787 Email: mail@martens.com.au Internet: www.martens.com.au</p>	<p>DRAWING TITLE</p> <p>OSD CATCHMENT PLANS & RESULTS</p> <table border="1"> <tr> <th>PROJECT NO.</th> <th>PLANSET NO.</th> <th>RELEASE NO.</th> <th>DRAWING NO.</th> <th>REVISION</th> </tr> <tr> <td>P1907336</td> <td>PS03</td> <td>R04</td> <td>PS03-E600</td> <td>B</td> </tr> </table>	PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION	P1907336	PS03	R04	PS03-E600	B
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GRID	DATUM	PROJECT MANAGER	CLIENT																																									
MGA	mAHD	TH	LOTUS PROJECT MANAGEMENT PTY LTD																																									
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION																																								
P1907336	PS03	R04	PS03-E600	B																																								