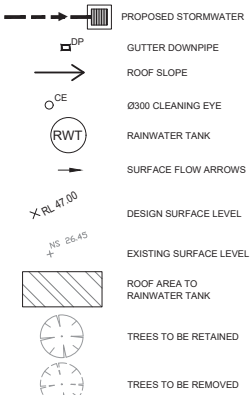


## LEGEND



## GENERAL NOTES

- ALL LINES ARE TO BE Ø90 uPVC 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWERGRADE & SEALED.
- EXISTING SERVICES LOCATIONS SHOWN INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
- ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
- ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.
- PITS LESS THAN 600mm DEEP MAY BE BRICK, PRECAST OR CONCRETE.
- ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- ALL EXTERNAL SLABS TO BE WATERPROOFED.
- ALL GRATES TO HAVE CHILD PROOF LOCKS.
- ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
- ALL DPs TO HAVE LEAF GUARDS.
- ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
- COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
- ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.
- REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR LANDSCAPING.
- CARE TO BE TAKEN AROUND EXISTING SEWER, STRUCTURAL ADVICE IS REQUIRED FOR SEWER PROTECTION AGAINST ADDITIONAL LOADING FROM NEW PITS, PIPES, RETAINING WALLS AND OSD BASIN WATER LEVELS.
- ALL PIPES IN BALCONIES TO BE Ø65 uPVC CAST IN CONCRETE SLAB. CONTRACTOR TO PROVIDE A BREAK / OPEN VOID IN RAIL / BALLUSTRADE FOR STORMWATER EMERGENCY OVERFLOW. ALL ENCLOSED AREAS/PLANTER BOXES TO BE FITTED WITH FLOOR WASTES & DRAINED TO OSD DOWNPIPES TO BE CHECKED BY ARCHITECT & PLUMBER PRIOR TO CONSTRUCTION.

$$C = 1.0$$

$$I = 168 \text{ mm/h (10 minute 100yr ARI)}$$

$$A = 1.0454 \text{ ha}$$

$$Q_{100} = C.I.A / 360$$

$$= 1.0 \times 168 \times 1.0454 / 360$$

$$= 0.488 \text{ m}^3/\text{s}$$

## ABSORPTION PIT CALCULATION

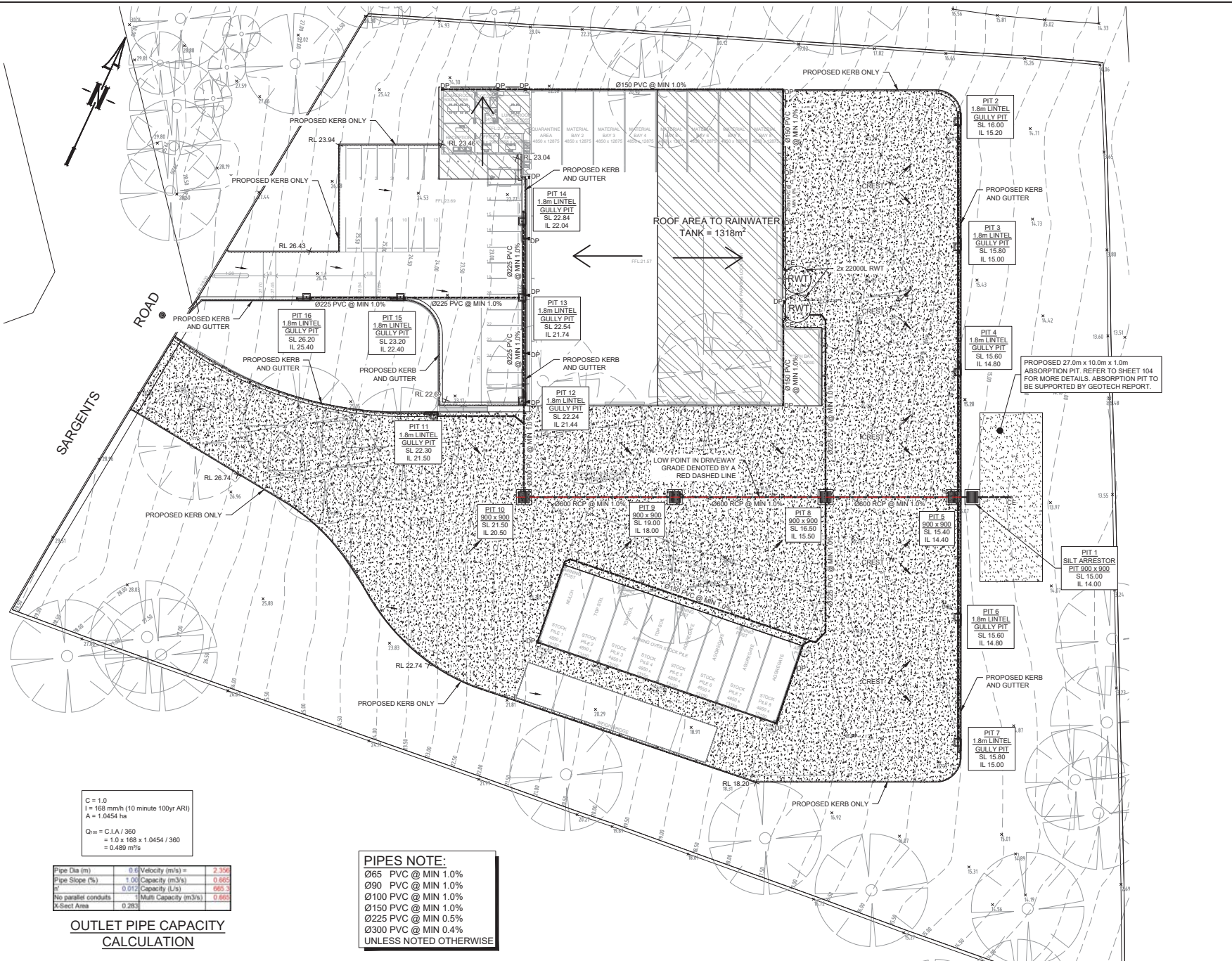
IMPERVIOUS AREA	VOLUME REQUIRED	VOLUME PROVIDED
100 m <sup>2</sup>	2.5 m <sup>3</sup>	0 m <sup>3</sup>
10454 m <sup>2</sup>	261.4 m <sup>3</sup>	270 m <sup>3</sup>

## OUTLET PIPE CAPACITY CALCULATION

Pipe Dia (m)	0.6	Velocity (m/s) =	2.35
Pipe Slope (%)	1.00	Capacity (m <sup>3</sup> /s)	0.665
m	0.012	Capacity (L/s)	665.3
No parallel conduits	1	Multi Capacity (m <sup>3</sup> /s)	0.665
X-Section Area	0.283		

## PIPES NOTE:




Ø65 PVC @ MIN 1.0%  
 Ø90 PVC @ MIN 1.0%  
 Ø100 PVC @ MIN 1.0%  
 Ø150 PVC @ MIN 1.0%  
 Ø225 PVC @ MIN 0.5%  
 Ø300 PVC @ MIN 0.4%  
 UNLESS NOTED OTHERWISE



NOT FOR CONSTRUCTION

Document Set ID: 7304241

Version: 1, Version Date: 24/09/2020

										Certification by Dr. Anthony Hasham (PERS)										Architect										Council										Scale										Project										Drawing Title																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			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PTY LTD - A.C.N. 084 059 941 SHOP 2-4/1 CONCORD RD NORTH STRATHFIELD NSW 2157 PH: (02) 9763 1500 FX: (02) 9763 1515 EMAIL: info@aceeng.com.au										99 SARGENTS ROAD, EBENEZER PROPOSED RESOURCE MANAGEMENT FACILITY STORMWATER CONCEPT PLANS DEVELOPMENT APPLICATION										STORMWATER CONCEPT 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**AUSTRALIAN CONSULTING ENGINEERS.**  
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 EMAIL: info@aceng.com.au

# CATCHMENT LEGEND



IMPERVIOUS AREA GOING TO  
ABSORPTION TRENCH= 10454m<sup>2</sup>



PERVIOUS AREA DISCHARGING  
TO THE BACK = 8739m<sup>2</sup>



NOT FOR CONSTRUCTION

B		COUNCIL COMMENTS	18/09/2020	EHZ	JSF
A		ISSUE FOR DEVELOPMENT APPLICATION	21/06/2019	EHZ	JSF
		Date	Design	Checked	

Verification by Dr. Anthony Hasham (PPEP)

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15 Villiers Street,  
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PHONE : +61 2 9188 8250

**Hawkesbury  
City Council**

Scale  
0 3 6 9 12 15 18 m  
SCALE 1:300 @ A1

**AUSTRALIAN  
CONSULTING  
ENGINEERS.**  
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Project  
**99 SARGENTS ROAD, EBENEZER  
PROPOSED RESOURCE  
MANAGEMENT FACILITY  
STORMWATER CONCEPT PLANS  
DEVELOPMENT APPLICATION**

Drawing Title		CATCHMENT PLAN	
Scale	A1	Project No.	Issue
1:300		190745	B
		Dwg. No.	
		102	

Document Set ID: 7304241

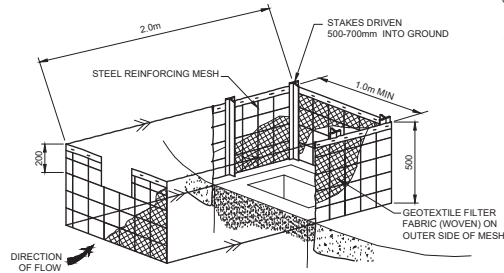
Version: 1, Version Date: 24/09/2020



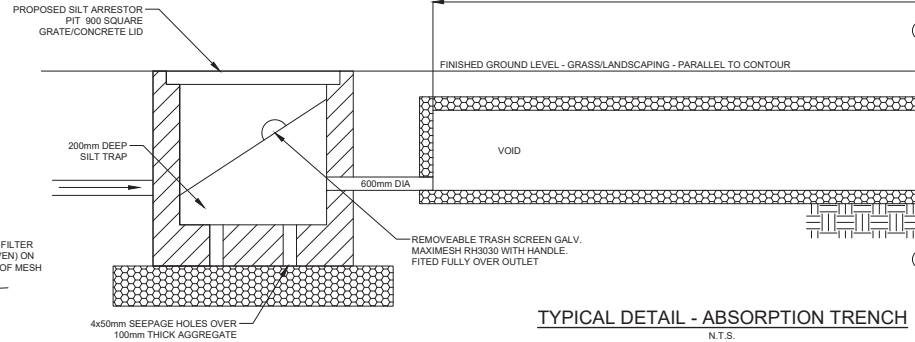


## SEDIMENT & EROSION NOTES

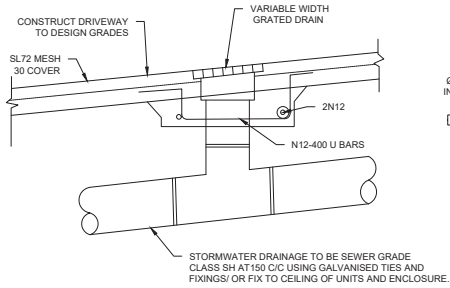
1. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO NOMINATE THE LOCATIONS AND TYPES OF SEDIMENT AND EROSION CONTROL MEASURES TO BE ADOPTED. THESE MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CLEARING OR EARTHWORKS AND MAINTAINED UNTIL THE WORKS ARE COMPLETED AND NO LONGER POSE AN EROSION HAZARD, UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
2. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO IDENTIFY AND MARK TREES WHICH ARE TO BE PRESERVED. NOTWITHSTANDING THE ABOVE, THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO MINIMISE DISTURBANCE TO EXISTING VEGETATION AND GROUND COVER OUTSIDE THE MINIMUM AREAS REQUIRED TO COMPLETE THE WORKS AND SHALL BE RESPONSIBLE FOR RECTIFICATION, AT ITS OWN COST, OF ANY DISTURBANCE BEYOND THOSE AREAS.
3. PROVIDE GULLY GRATE INLET SEDIMENT TRAPS AT ALL GULLY PITS.
4. PROVIDE SILT FENCING ALONG PROPERTY LINE AS DIRECTED BY SUPERINTENDENT.
5. ADDITIONAL CONTROL DEVICES TO BE PLACED WHERE DIRECTED BY THE PRINCIPLE.
6. ALTERNATIVE DESIGNS TO BE APPROVED BY SUPERINTENDENT PRIOR TO CONSTRUCTION.
7. WASH DOWN/RUMBLE AREA TO BE CONSTRUCTED WITH PROVISIONS RESTRICTING ALL SILT AND TRAFFICKED DEBRIS FROM ENTERING THE STORMWATER SYSTEM.
8. NO WORK OR STOCKPILING OF MATERIALS TO BE PLACED OUTSIDE OF SITE WORK BOUNDARY.
9. APPROPRIATE EROSION AND SEDIMENT CONTROLS TO BE USED TO PROTECT STOCKPILES AND MAINTAINED THROUGHOUT CONSTRUCTION.
10. IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE DUE CARE OF NATURAL VEGETATION. NO CLEARING IS TO BE UNDERTAKEN WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT.
11. TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE MODIFIED AS DIRECTED ON-SITE BY THE SUPERINTENDENT.
12. THE LOCATION OF EROSION AND SEDIMENTATION CONTROLS WILL BE DETERMINED ON SITE BY THE SUPERINTENDENT.
13. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.
14. ALL SETTING OUT IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO WORKS COMMENCING ON SITE. THE SUPERINTENDENT'S SURVEYOR SHALL PEG ALL ALLOTMENT BOUNDARIES, PROVIDE COORDINATE INFORMATION TO THESE PEGS AND PLACE BENCH MARKS. THE CONTRACTOR SHALL SET OUT THE WORKS FROM AND MAINTAIN THESE PEGS.
15. PLANS ARE MINIMUM REQUIREMENTS AND ARE TO BE USED AS A GUIDE ONLY. EXACT MEASURES USED SHALL BE DETERMINED ON SITE IN CONJUNCTION WITH PROGRAM OF CONTRACTORS WORKS etc.



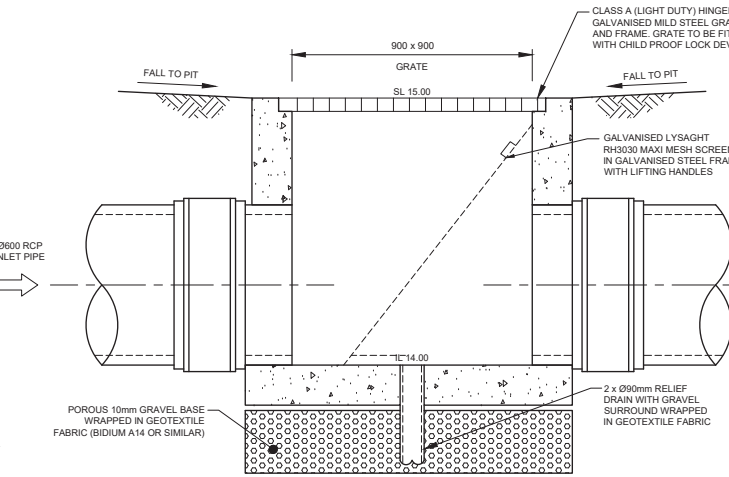
**FIELD INLET SEDIMENT TRAP**  
N.T.S.



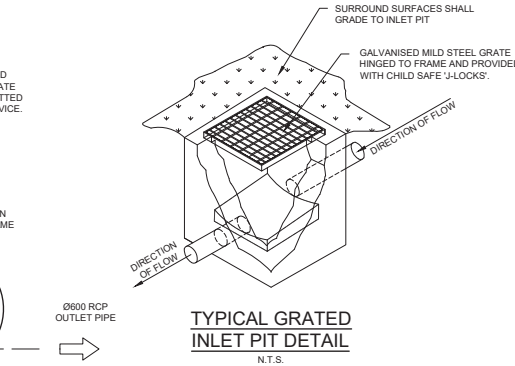
**TYPICAL DETAIL - ABSORPTION TRENCH**  
N.T.S.



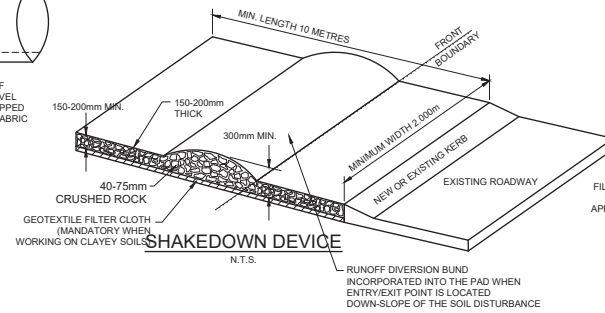
**GRATED DRAIN DETAIL**  
N.T.S.



**PIT 1  
SILT ARRESTOR**  
SCALE 1:10

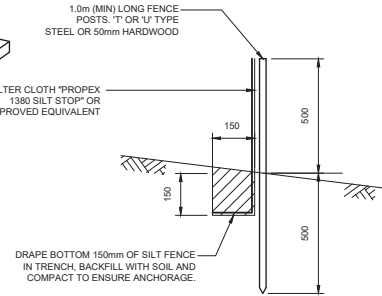


**TYPICAL GRATED  
INLET PIT DETAIL**  
N.T.S.



**SHAKEDOWN DEVICE**  
N.T.S.

**SECTION A-A: ABSORPTION TRENCH**  
N.T.S.

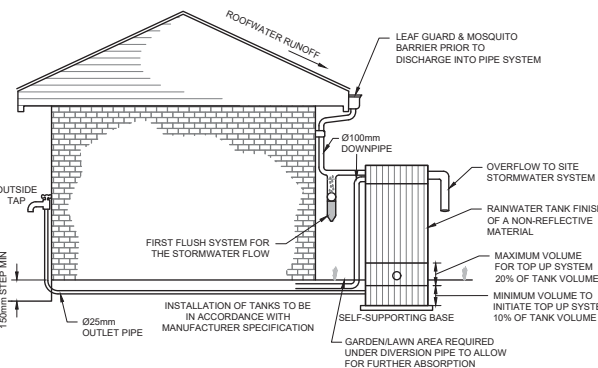


**SILT FENCE DETAIL**  
N.T.S.

## SILT FENCE NOTES:

1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH GALVANISED WIRE TIES, STAPLES OR ATTACHMENT BELTS.
2. POSTS SHOULD NOT BE SPACED MORE THAN 3.0m APART.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 150mm AND FOLDED.
4. FOR EXTRA STRENGTH TO SILT FENCE, WOVEN WIRE (14mm GAUGE, 150mm MESH SPACING) TO BE FASTENED SECURELY BETWEEN FILTER CLOTH AND POSTS BY WIRE TIES OR STAPLES.
5. INSPECTIONS SHALL BE PROVIDED ON A REGULAR BASIS, ESPECIALLY AFTER RAINFALL WITH SOIL AND EXCESSIVE SILT DEPOSITS REMOVED WHEN 'BULGES' DEVELOP IN SILT FENCE.
6. SEDIMENT FENCES SHALL BE CONSTRUCTED WITH SEDIMENT TRAPS AND EMERGENCY SPILLWAYS AT SPACINGS NO GREATER THAN 40m ON FLAT TERRAIN DECREASING TO 20m SPACINGS ON STEEP TERRAIN.

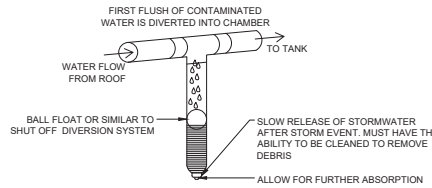
NOT FOR CONSTRUCTION



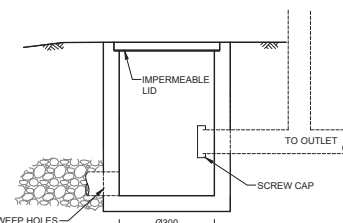
**RAINWATER TANK DETAIL**  
N.T.S.

## STORAGE TANK NOTES:

1. TANK WATER TAPS SHALL BE MARKED 'RAINWATER NOT TO HUMAN CONSUMPTION'.
2. RAINWATER TANKS SHALL BE CONNECTED TO MAINS WATER SUPPLY AS BACKUP.
3. THE PUMPS ARE TO BE INSULATED IN ACCORDANCE WITH COUNCIL POLICY.
4. PUMPS SHALL PROVIDE MINIMUM 150 kPa PRESSURE.
5. EACH TANK TO BE CONNECTED TO AN OUTDOOR TAP FOR IRRIGATION USE.
6. RAINWATER TANKS TO BE CLEANED OUT EVERY 6 MONTHS.
7. WATER TANK AND ASSOCIATED STRUCTURE TO BE THE SAME COLOR, OR A COLOR COMPLEMENTARY TO THE DWELLING.
8. TOP TANK TO BE BELOW TOP OF NEAREST FENCE, OR 1.5 METERS WHICHEVER IS LESS.
9. THE WATER TANK SHOULD BE LOCATED AT LEAST 900mm FROM ANY PROPERTY BOUNDARY.
10. PLUMBING FROM THE WATER TANK IS TO BE KEPT SEPARATED FROM THE RETICULATED WATER SUPPLY SYSTEM.
11. TANK TO BE BUILT ON SELF-SUPPORTING BASE.
12. PROVIDE BACK-FLOW PREVENTION DEVICE AT MAINS WATER METER.
13. ROOF DRAINING TO TANK MUST NOT CONTAIN LEAD, TAR BASED PAINTS OR ASBESTOS.
14. WATER TO BE DRAWN FROM ANAEROBIC ZONE OF TANK.



**FIRST FLUSH WATER  
DIVERTER DETAIL**  
N.T.S.



**CLEANING EYE DETAIL**  
N.T.S.

B	COUNCIL COMMENTS	18/09/2020	EHZ	JSF
A	ISSUE FOR DEVELOPMENT APPLICATION	21/06/2019	EHZ	JSF
Date	Design	Checked		

Verification by Dr. Anthony Hasham (P&E)

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Council  
Hawkesbury  
City Council

Scale  
0 200 400 600mm  
SCALE 1:10 @ A1

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Project  
99 SARGENTS ROAD, EBENEZER  
PROPOSED RESOURCE  
MANAGEMENT FACILITY  
STORMWATER CONCEPT PLANS  
DEVELOPMENT APPLICATION

Drawing Title  
MISCELLANEOUS  
DETAILS SHEET  
Scale  
N.T.S.  
Project No.  
190745  
Dwg No.  
104  
Issue  
B



1 SITE  
1 : 300

REV	DESCRIPTION	DATE	BY
A	CONCEPT PLANS	01/03/19	CB
B	ISSUED FOR DA	07/06/19	CB

FOR DA APPROVAL

**baindesign**

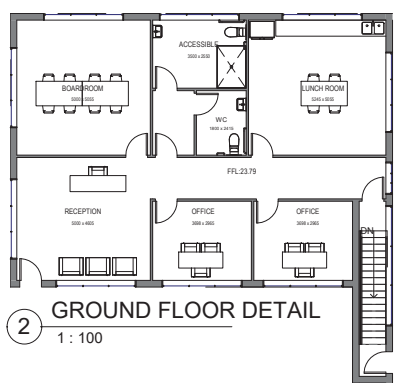
**BAINI DESIGN**  
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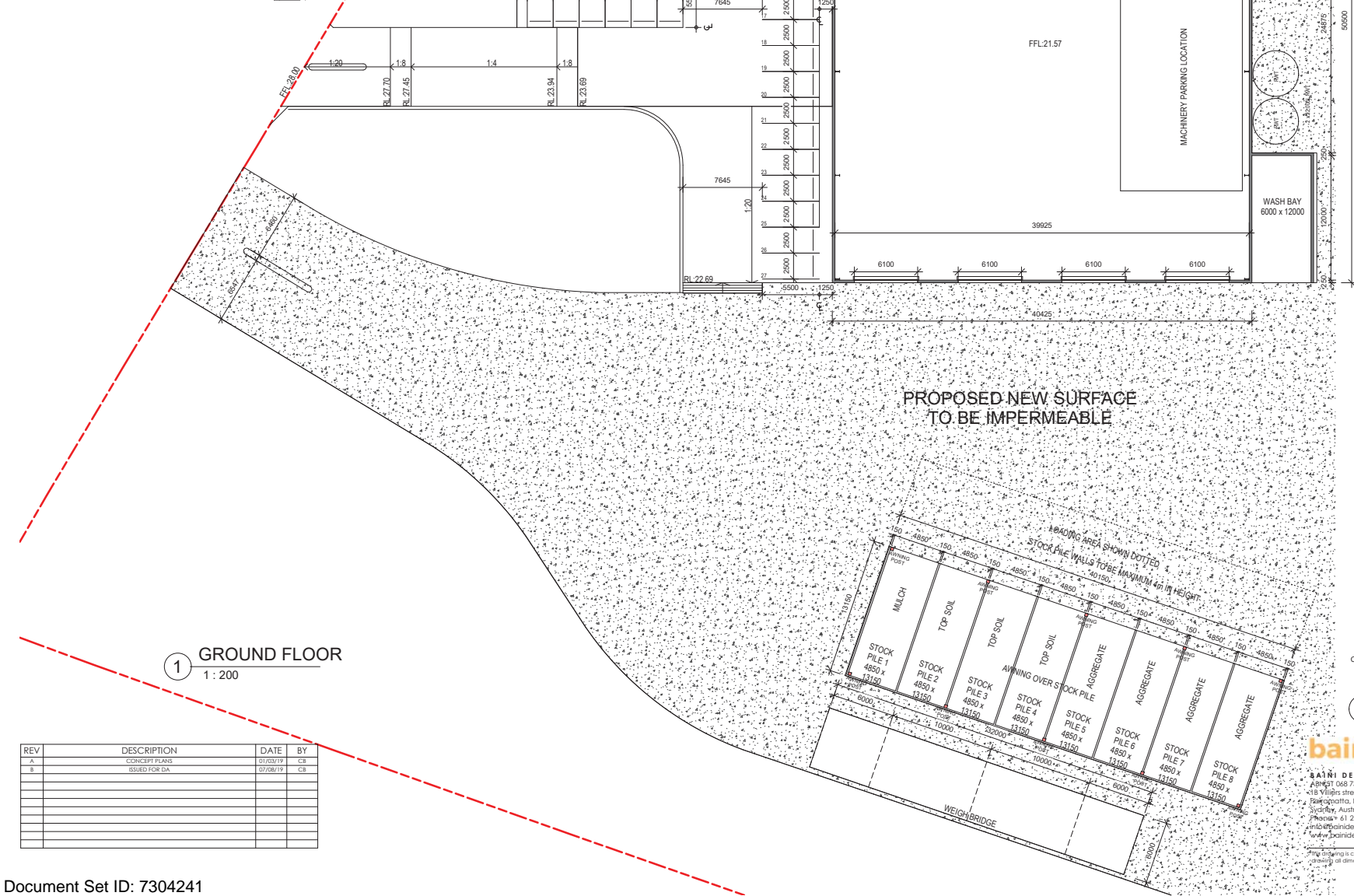
PROJECT NUMBER	DRAWING NUMBER	DATE	REVISION
19083	01	06/07/17	B
SCALE	DRAWN BY	CHECKED BY	
1 : 300	FM	CB	

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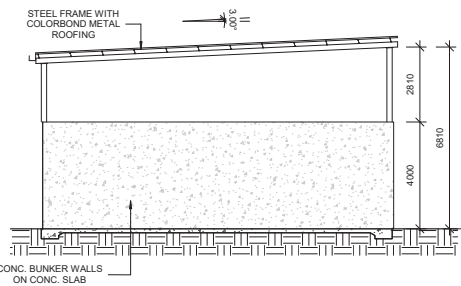


**2 GROUND FLOOR DETAIL**  
1 : 100



**1 GROUND FLOOR**  
1 : 200

REV	DESCRIPTION	DATE	BY
A	CONCEPT PLANS	01/03/19	CB
B	ISSUED FOR DA	07/06/19	CB



**3 STOCKPILE SECTION**  
1 : 100

**baini design**

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www.baini-design.com.au

PROJECT TITLE  
**PROPOSED RESOURCE MANAGEMENT FACILITY**  
**99 SARGENTS ROAD, EBENEZER NSW 2756**

DRAWING TITLE  
**GROUND FLOOR PLAN**

PROJECT NUMBER  
**19083**

DRAWING NUMBER  
**02**

DATE  
**03/01/19**

REVISION  
**B**

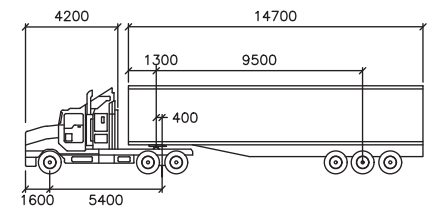
SCALE @ A1  
**AS**

DRAWN BY  
**FM**

CHECKED BY  
**CB**

Sargents Road

# Material Bay 1 Forward Inbound



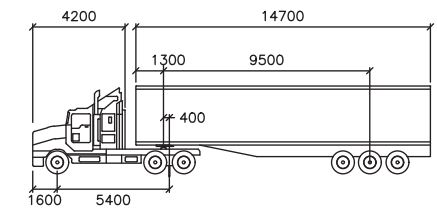
AV

	mm		
Tractor Width	: 2500	Lock to Lock Time	: 6.0
Trailer Width	: 2500	Steering Angle	: 28.3
Tractor Track	: 2500	Articulating Angle	: 70.0
Trailer Track	: 2500		

Sargents Road



## Material Bay 1 Reverse Outbound

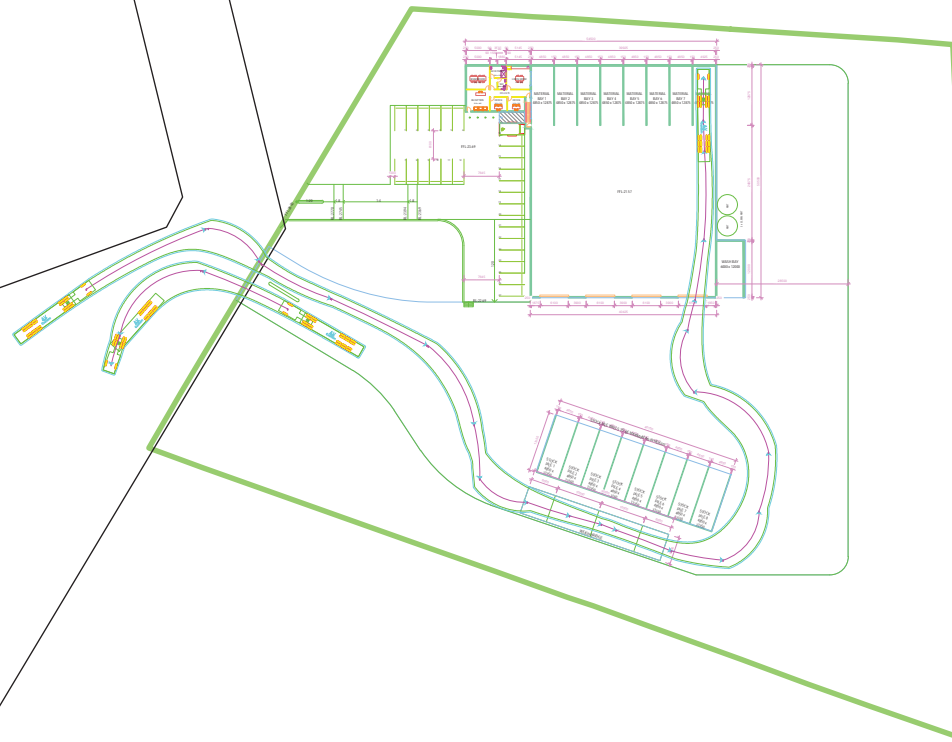


AV

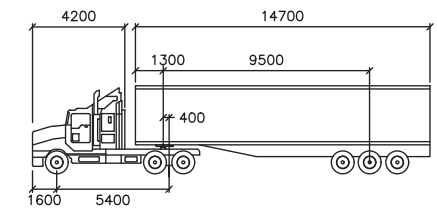
	mm		
Tractor Width	: 2500	Lock to Lock Time	: 6.0
Trailer Width	: 2500	Steering Angle	: 28.3
Tractor Track	: 2500	Articulating Angle	: 70.0
Trailer Track	: 2500		



Sargents Road



## Material Bay 8 Forward Inbound



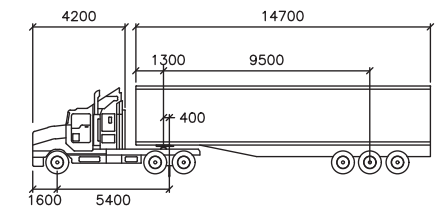
AV

	mm		
Tractor Width	: 2500	Lock to Lock Time	: 6.0
Trailer Width	: 2500	Steering Angle	: 28.3
Tractor Track	: 2500	Articulating Angle	: 70.0
Trailer Track	: 2500		

Sargents Road



## Material Bay 8 Reverse Outbound



AV

Tractor Width	: 2500	Lock to Lock Time	: 6.0
Trailer Width	: 2500	Steering Angle	: 28.3
Tractor Track	: 2500	Articulating Angle	: 70.0
Trailer Track	: 2500		



2

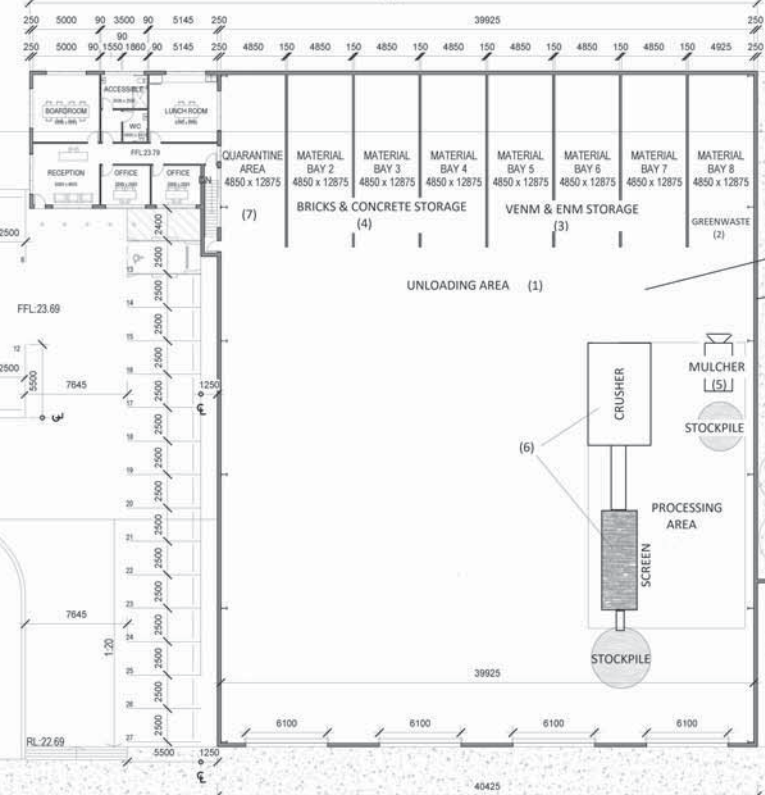
GROUND FLOOR DETAIL  
1: 100



1

GROUND FLOOR  
1: 200

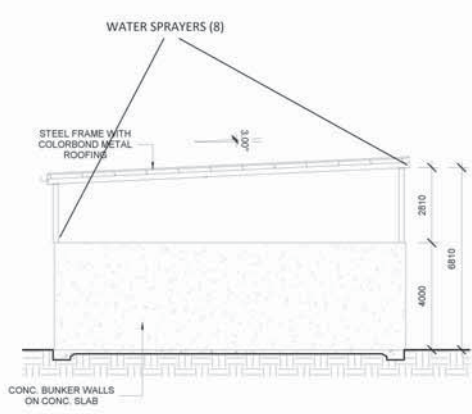
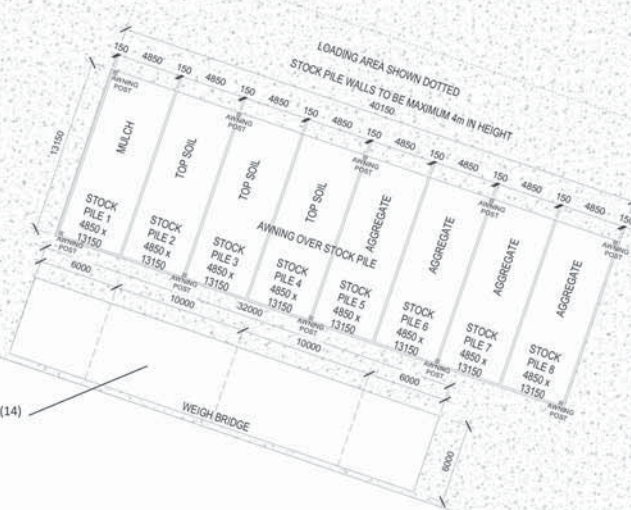
REV	DESCRIPTION	DATE	BY
1	CONCEPT PLANS ISSUED FOR DA	01/03/19	CB
2		07/09/19	CB



NOTE: THIS IS A MARKED UP SITE PLAN FOR THE PURPOSES OF PROVIDING FURTHER INFORMATION REQUESTED BY THE EPA.

- CONCRETE FLOOR (10)
- BUILDING WALLS & ROOF TO BE 0.5MM COLORBOND SHEET STEEL  $R_w = 22dB$  (9)
- 2 X 22,000 L RAINWATER TANKS (16)
- BUNDED CLOSED LOOP VEHICLE WASH BAY (13)
- TRUCK WASH CHEMICALS IN BUNDED AREA

PROPOSED NEW SURFACE TO BE IMPERMEABLE



3 STOCKPILE SECTION  
1: 100 FOR DA APPROVAL

**baini design**

**PROJECT TITLE**  
PROPOSED RESOURCE MANAGEMENT FACILITY  
99 SARGENTS ROAD, EBENEZER NSW 2756

**DRAWING TITLE**  
GROUND FLOOR PLAN

**PROJECT NUMBER**  
19083

**DRAWING NUMBER**  
02

**DATE**  
03/01/19

**REVISION**  
B

**SCALE**  
AS INDICATED

**DRAWN BY**  
FM

**CHECKED BY**  
CB

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LOCALITY PLAN  
NTS





**KEY**

**STOCK PILE**

**BUILDING MATERIAL & SOIL STOCKPILE**

**SEDIMENT EROSION**

**SKIP BINS**

**TEMPORARY FENCE**

**WC**

**1 SEDIMENTATION PLAN**  
1 : 300

REV	DESCRIPTION	DATE	BY

**FOR DA APPROVAL**

**baini design**

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**PROJECT TITLE**  
**PROPOSED RESOURCE MANAGEMENT FACILITY**  
**99 SARGENTS ROAD, EBENEZER NSW 2756**

**DRAWING TITLE**  
**SEDIMENTATION PLAN**

PROJECT NUMBER	DRAWING NUMBER	DATE	REVISION
<b>19083</b>	<b>07</b>	<b>01/31/20</b>	
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1 : 300	FM	CB	

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FOR DA APPROVAL

**baini design**

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PROJECT NUMBER	DRAWING NUMBER	DATE	REVISION
<b>19083</b>	01	06/07/17	B
SCALE: A1	DRAWN BY	CHECKED BY	
1 : 300	FM	CB	

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