

1 LARAPINTA PLACE, GLENHAVEN NSW PROPOSED MOSQUE

STORMWATER CONCEPT PLANS

LEGEND

	PROPOSED STORMWATER
	EXISTING WATER (FROM RECORDS)
	EXISTING TELSTRA (FROM RECORDS)
	GUTTER DOWNPipe
	ROOF SLOPE
	Ø300 CLEANING EYE
	5,000L RAINWATER TANK
	SURFACE FLOW ARROWS
	DESIGN SURFACE LEVEL
	EXISTING SURFACE LEVEL
	INVERT LEVEL OF PIPE JUNCTION
	FENCE WITH 50mm GAP BENEATH FOR OVERLAND FLOWS
	CLOSED STYLE FENCING
	MASONRY RETAINING WALL TO STRUCTURAL ENGINEER'S DETAILS
	SWALE DRAIN
	PROPOSED OSD STORAGE
	ROOF AREA TO RAINWATER TANK
	TREES TO BE RETAINED
	TREES TO BE REMOVED



LOCALITY PLAN

N.T.S

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

DRAWING INDEX	
Drawing No.	DESCRIPTION
000	COVER SHEET, NOTES & LEGEND
101	STORMWATER CONCEPT PLAN BASEMENT LEVEL SHEET 1 OF 2
102	STORMWATER CONCEPT PLAN BASEMENT LEVEL SHEET 2 OF 2
103	STORMWATER CONCEPT PLAN
104	ON-SITE DETENTION DETAILS AND CALCULATION SHEETS SHEET 1 OF 2
105	ON-SITE DETENTION DETAILS AND CALCULATION SHEETS SHEET 2 OF 2
106	MISCELLANEOUS DETAILS SHEET

NOT FOR CONSTRUCTION

E	COUNCIL COMMENTS	03/06/2019	JTF	JAB
D	ARCHITECTURAL AMENDMENTS	01/02/2019	JTF	JAB
C	COUNCIL COMMENTS	12/06/2018	JTF	JAB
B	COUNCIL COMMENTS	17/05/2018	JTF	JAB
A	ISSUE FOR DEVELOPMENT APPLICATION	19/04/2018	JTF	JAB
Issue	Description	Date	Design	Checked
		1cm at full size	10cm	20cm

Certification By Dr. Anthony Hasham (NPER):
IDRAFT
ARCHITECTS

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Council
The Hills Shire Council

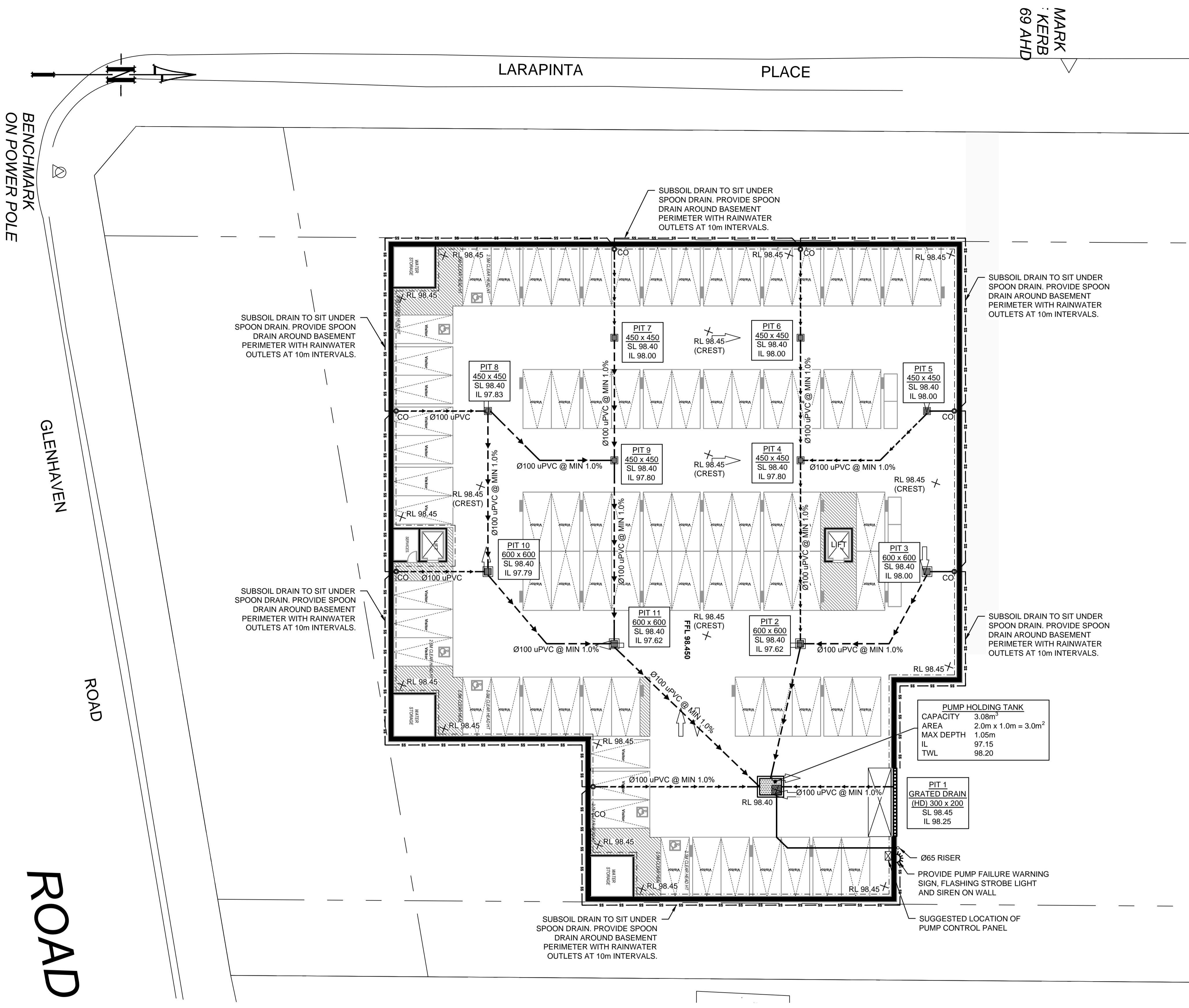
Scale

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Project
1 LARAPINTA PLACE, GLENHAVEN NSW
PROPOSED MOSQUE
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

Drawing Title
COVER SHEET,
NOTES & LEGEND

Scale	A1	Project No.	180511	Dwg. No.	000	Issue	E
N.T.S.							

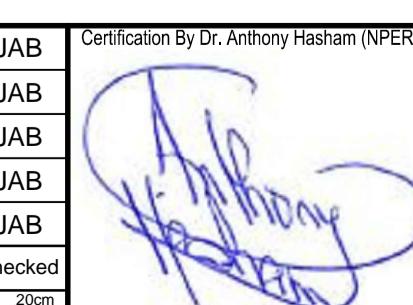


BASEMENT PLAN

SCALE 1:200

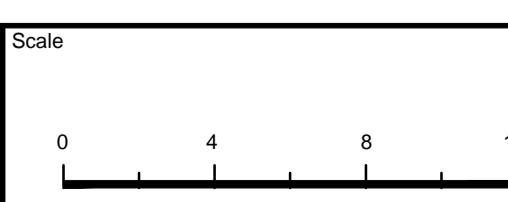
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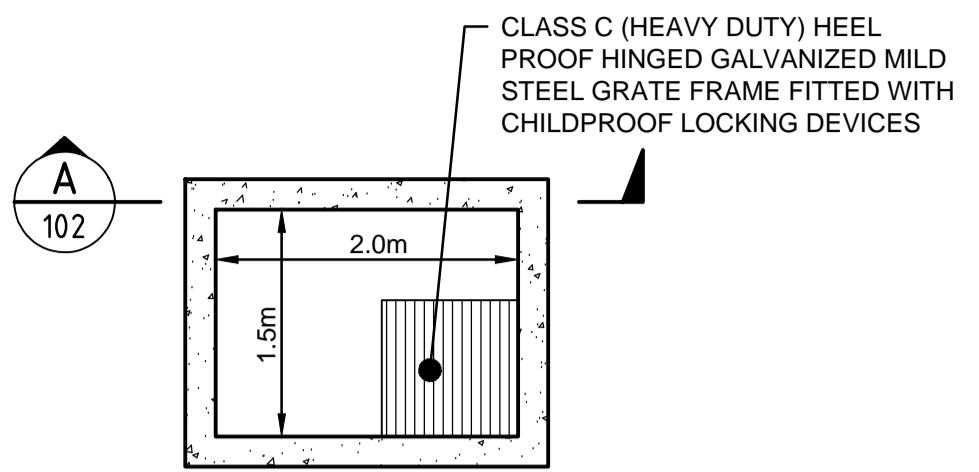
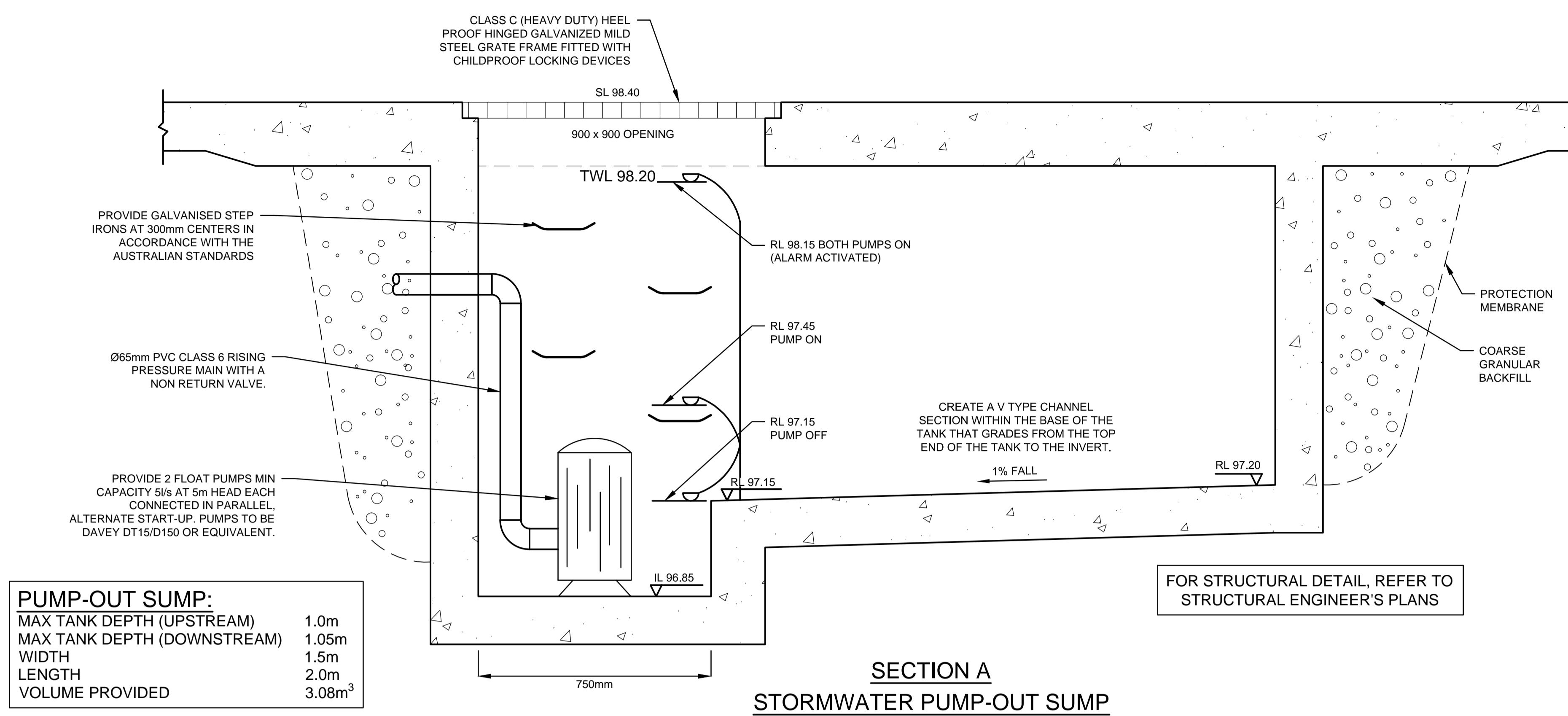
Scale

 SCALE 1:200 @ A1


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PROPOSED MOSQUE
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT LEVEL
SHEET 1 OF 2

Scale A1 Project No. 180511 Dwg. No. 101 Issue E

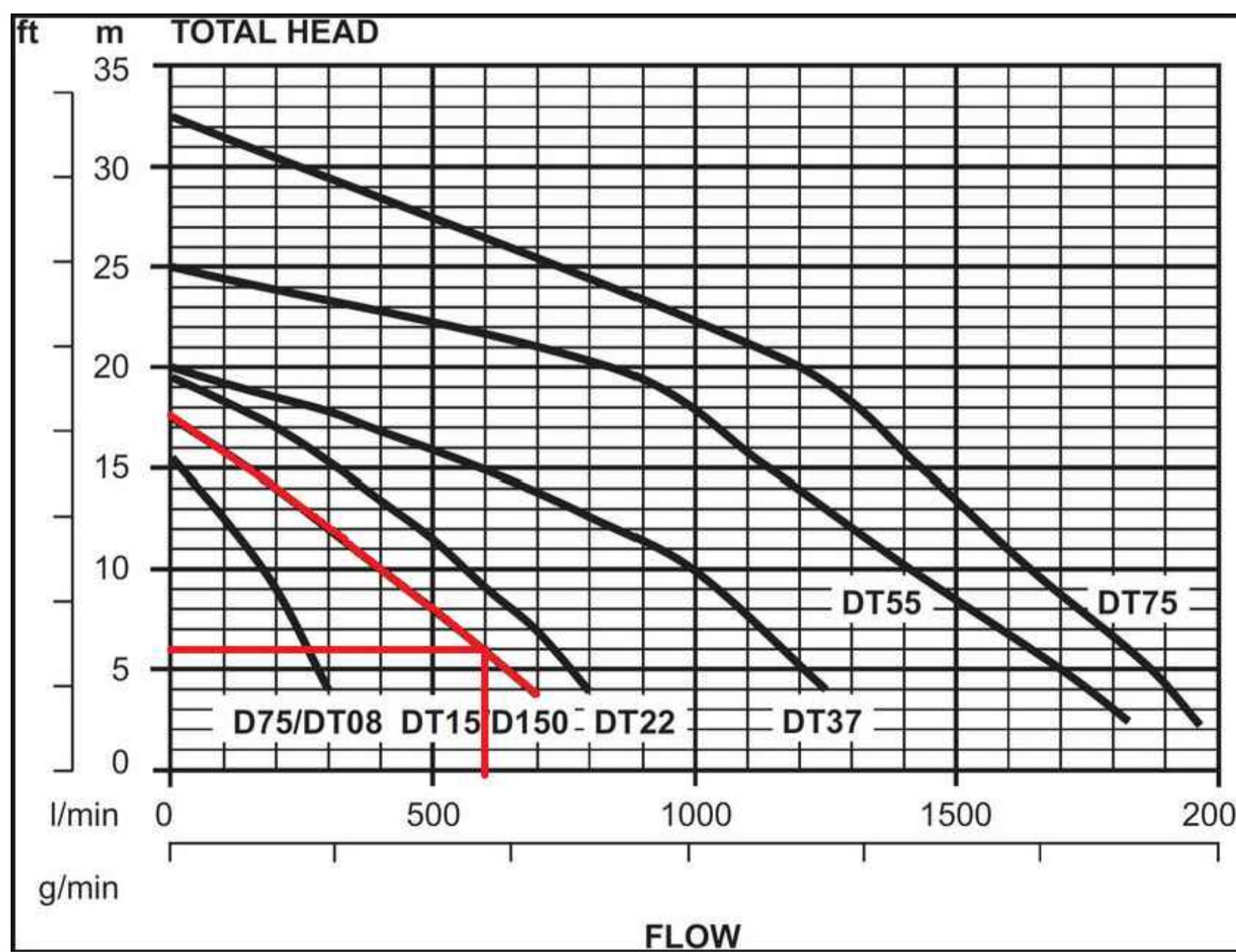


NOTE:
1- FOR ALL THE STRUCTURAL DETAILS, REFER TO STRUCTURAL ENGINEER'S PLAN.
2- ALL THE AG LINES BEHIND BASEMENT WALLS TO BE CONNECTED TO PUMP-OUT SUMP.

PUMP-OUT SUMP DETAIL PLAN VIEW
SCALE 1:50

PUMP STORAGE VOLUME CALCULATION

- $I_{100,90\text{ min}} = 56 \text{ mm/hour}$
- PUMP STORAGE CATCHMENT AREA: $A = 32.3 \text{ m}^2 = 0.00323 \text{ ha}$
- $Q = C \times I \times A / 360$ WHERE $C = 1.0$ (REFER TO AS3500.3.5.4.6 (a))
 $= 1.0 \times 56 \times 0.00323 / 360$
 $= 0.000502 \text{ m}^3/\text{s}$
 $= 0.502 \text{ L/s}$
- THEREFORE, THE PUMP HOLDING TANK VOLUME IS:
 $V = 0.5002 \times 1.5 \times 3600$
 $= 2.71 \text{ m}^3$
- TOTAL REQUIRED VOLUME IS 2.71 m^3



PUMP CALCULATIONS											
Project Address:	1 Larapinta Place, Glenhaven										
$HL = (3.35 \times 10^6 Q / (d^2 \cdot 63 \cdot C))^{1.852}$	$h1 = kv^2 / 2g$			$H(\text{total head}) = Hf + h1 + \text{Elevation Head}(\text{static head})$							
$HL(\text{m}/100\text{m}), Q(\text{L/s}), d(\text{mm})$	$k(\text{cum}), v(\text{m/s}), g = 9.8(\text{m})$			$v(\text{m/s}) = 0.00$	$Elevation Head(\text{m}) = 5$					$Pipe Length(\text{m}) = 10$	
$d(\text{mm}) = 65$	$Bend Losses, Kb = 3.06$			$Valve Losses, Kv = 2.13$	$Hazen - Williams C = 145$					$Hazen-Williams Constant$	
	$Entry/Exit Losses, Ke = 5.00$			$Cum Losses, K = 10.19$	125-140 Commercial steel pipe					135-140 Bitumen Lined Cast iron pipe	
	$Start Flow = 0$				140-145 Copper Tube					145-150 PVC	
	$Increment = 1$										
$Q(\text{L/s})$	0	1	2	3	4	5	6	7	8	9	10
$HL(\text{m}/100\text{m})$	0.00	0.18	0.64	1.36	2.32	3.51	4.92	6.55	8.39	10.44	12.68
$Hf(\text{m})$	$HL \times \text{pipe Length}/100$										
$v(\text{m/s})$	$Q(\text{L/s}) / \text{area of pipe crossing section}$										
$h1(\text{m})$	$k(\text{cum}) \times v(\text{m/s})^2 / 2g$										
$H(\text{m})$	$= Hf + h1 + \text{Elevation Head}$										

UNDERGROUND PUMP - OUT SUMP STAGED STORAGE CALCULATIONS

DEPTH (mm)	AREA (m ²)	CUMULATIVE VOLUME (m ³)
0	3.0	0
100	3.0	0.225
200	3.0	0.525
300	3.0	0.825
400	3.0	1.125
500	3.0	1.425
600	3.0	1.725
700	3.0	2.025
800	3.0	2.325
900	3.0	2.625
1000	3.0	2.925
1050	3.0	3.075

NOT FOR CONSTRUCTION

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Certification By Dr. Anthony Hasham (NPER)

IDRAFT
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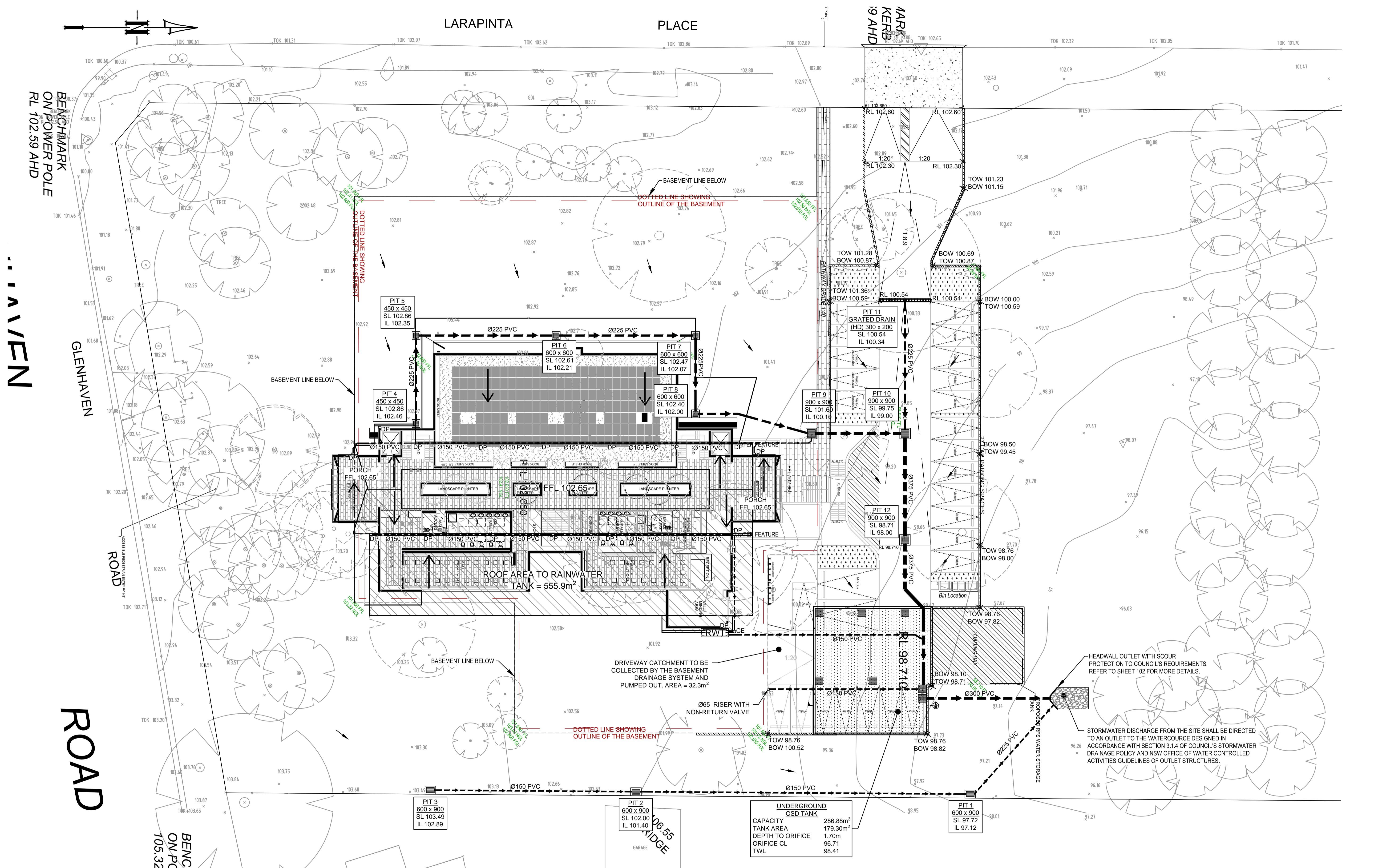
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Scale
0 200 400 600mm
SCALE 1:10 @ A1
0 1 2 3 m
SCALE 1:50 @ A1

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PROPOSED MOSQUE
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT LEVEL
SHEET 2 OF 2
Scale A1 Project No. 180511
As Shown Dwg. No. 102
Issue E



GROUND FLOOR PLA

SCALE 1:20

E	COUNCIL COMMENTS
D	ARCHITECTURAL AMENDMENTS
C	COUNCIL COMMENTS
B	COUNCIL COMMENTS
A	ISSUE FOR DEVELOPMENT APPLICATION
Issue	Description

JAB	Certification By Dr. Anthony Hasham (
JAB	
JAB	
JAB	
JAB	
Checked	
20cm	

ER): Architect
IDRAFT ARCHITECTS
Unit 43, 2 Slough
Silverwater NSW 2128
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Council



Scale

0 4 8

SCALE 1:200 @ A1

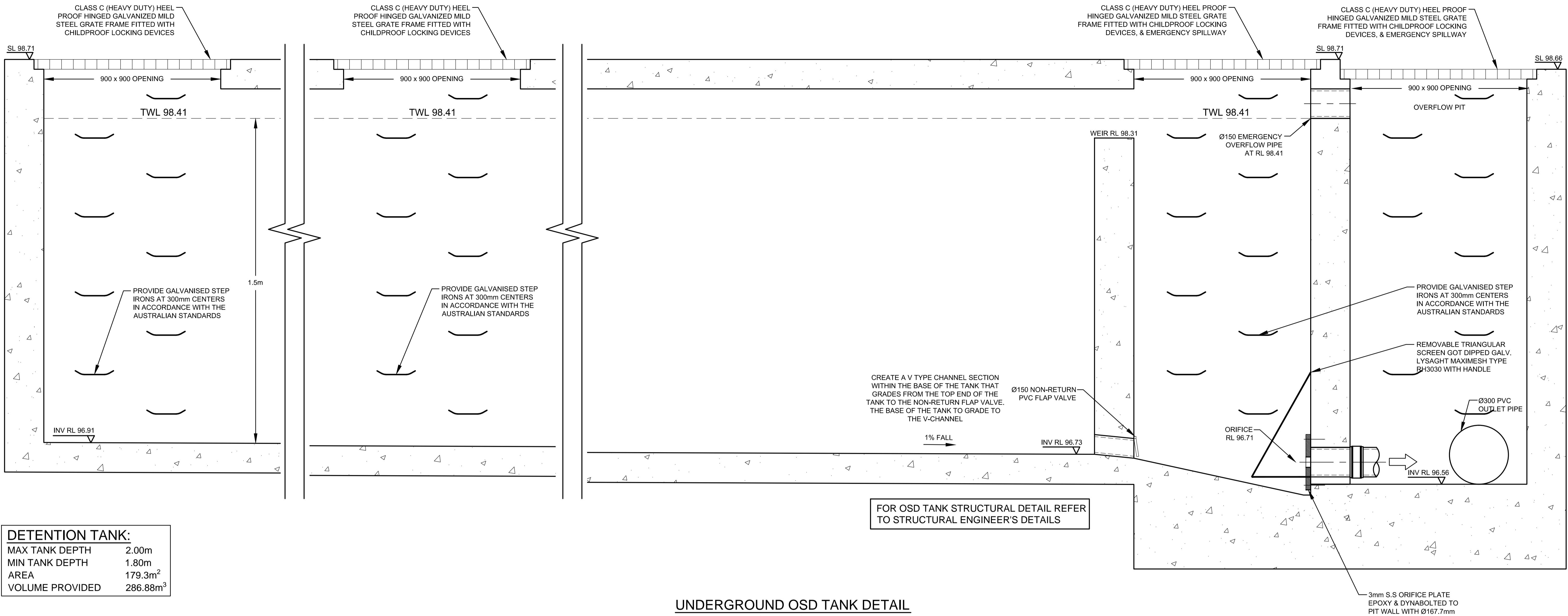
The logo consists of a stylized 'A' and 'C' intertwined, with the 'A' being black and the 'C' being white. To the left of the logo, the text '12 m' is written vertically. To the right of the logo, the company name 'AUSTRALIAN CONSULTING ENGINEERS.' is written in large, bold, black capital letters. Below the company name, the text 'PTY LTD - A.C.N. 084 059 94' is written in a smaller, regular black font. Below that, 'SHOP 2-14I CONCORD RD NORTH STRATHFIELD NSW' is written in a regular black font. Below that, 'PH: (02) 9763 1500 FX: (02) 9763 1515' is written in a regular black font. Below that, 'EMAIL: info@aceeng.com.au' is written in a regular black font.

Project

1 LARAPINTA PLACE, GLENHAVEN NSW PROPOSED MOSQUE STORMWATER CONCEPT PLANS DEVELOPMENT APPLICATION

Title

ORMWATER CONCEPT PLAN



<u>DETENTION TANK:</u>	
MAX TANK DEPTH	2.00m
MIN TANK DEPTH	1.80m
AREA	179.3m ²
VOLUME PROVIDED	286.88m ³

UNDERGROUND OSD TANK DETAIL

SECTION A

SCALE 1:10

OSD CALCULATION:

SITE AREA = 7497.3m²
= 0.74973ha

$$\text{SITE SLOPE} = (103.85 - 97.21) / 84.8\text{m} = 7.8\%$$

USING THE TABLE 4.14 OF DESIGN GUIDELINES:

$$\begin{aligned} \text{PSD}_{100} &= 104 \text{ l/s/ha} \\ \text{SSR}_{100} &= 362 \text{ m}^3/\text{h} \end{aligned}$$

THEREFOR

$$\text{PSD}_{100} = 77.97 \text{ l/s}$$

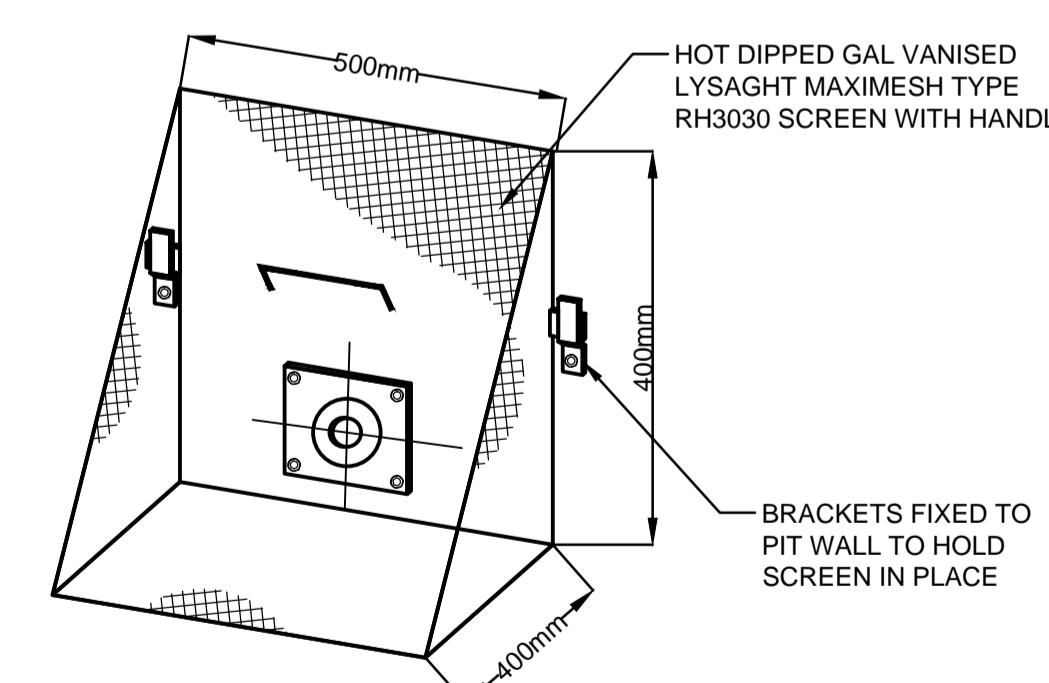
$$\text{SSR}_{100} = 271.40 \text{ m}^2$$

ORIFICE CALCULATION

$$\Omega = C \times A \times (2 \times a \times b)$$

$$\begin{aligned}
 \text{SO: } A &= Q / (C \times \sqrt{2 \times g \times h}) \\
 &= 0.07797 / (0.61 \times \sqrt{2 \times 9.81 \times 1.70}) \\
 &= 0.0221 \text{m}^2
 \end{aligned}$$

$$\begin{aligned}\text{THEREFORE: } d &= \sqrt{4 \times A / \pi} \\ &= \sqrt{4 \times 0.0221 / 3.14159} \\ &= 167.7\text{mm}\end{aligned}$$



TRASH SCREEN DETAIL

ORIFICE PLATE DETAIL

DEPTH (mm)	AREA (m ²)	CUMULATIVE VOLUME (m ³)
0	179.3	0
200	179.3	17.93
300	179.3	35.86
400	179.3	53.79
500	179.3	71.72
600	179.3	89.65
800	179.3	125.51
1000	179.3	161.37
1200	179.3	197.23
1400	179.3	233.09
1600	179.3	268.95
1700	179.3	286.88

NOT FOR CONSTRUCTION

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JAB	Certification By Dr. Anthony Hasham (N)
JAB	
Checked	
20cm	

Architect IDRAFT ARCHITECTS Unit 43, 2 Slough Ave, Silverwater NSW PHONE : (02) 9648 8848	Council The Hills Shire Council
--	---

A horizontal scale bar consisting of a thick black line with tick marks. The first tick mark is labeled '200', the second is unlabeled, the third is unlabeled, the fourth is labeled '400', the fifth is unlabeled, and the sixth is labeled '600mm'. Below the scale bar, the text 'SCALE 1:10 @ A1' is printed in a black sans-serif font.

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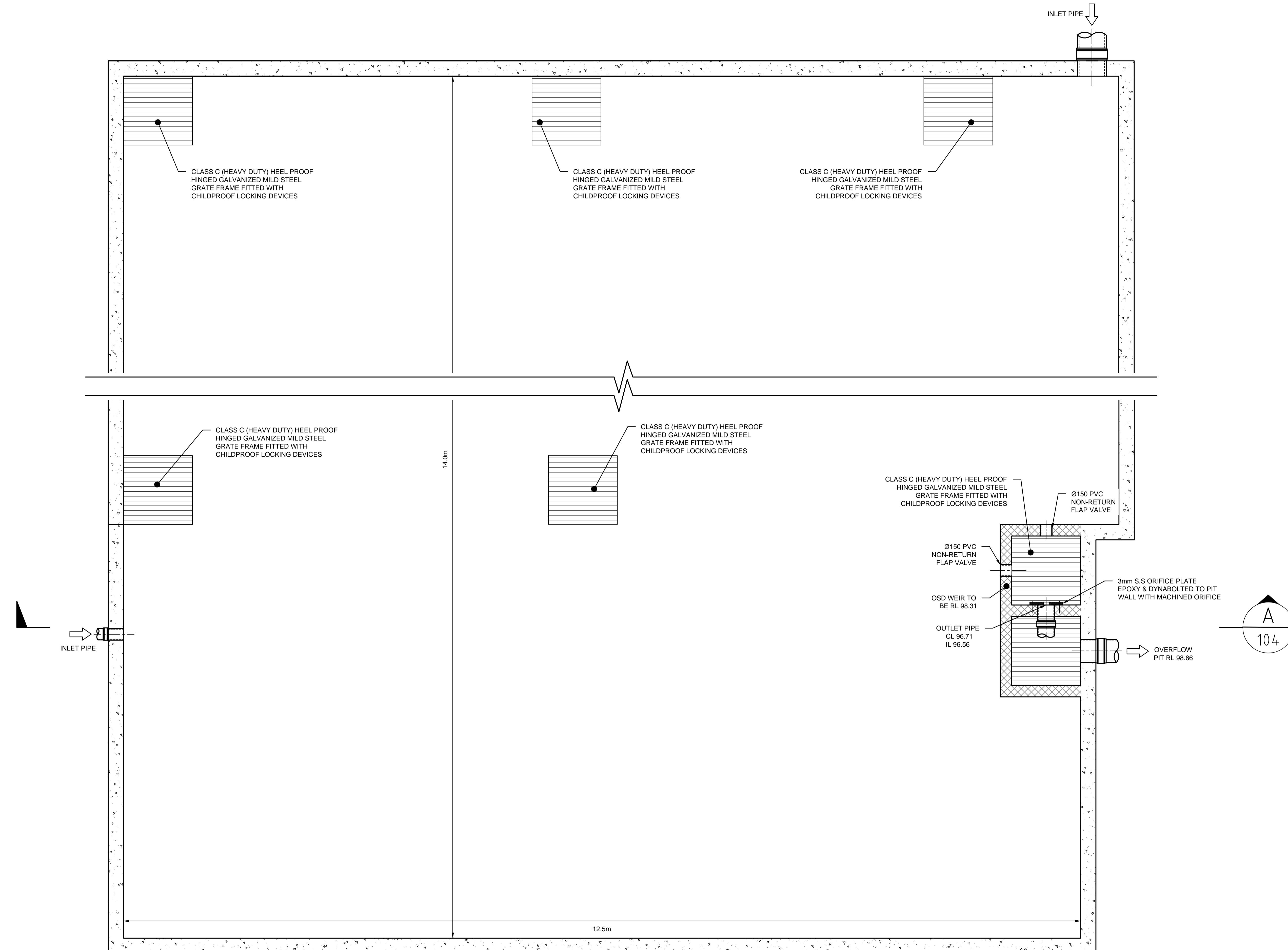
Project

1 LARAPINTA PLACE, GLENHAVEN NSW PROPOSED MOSQUE STORMWATER CONCEPT PLANS DEVELOPMENT APPLICATION

Drawing Title

ON-SITE DETENTION DETAILS AND CALCULATION SHEETS

SHEET 1 OF 2

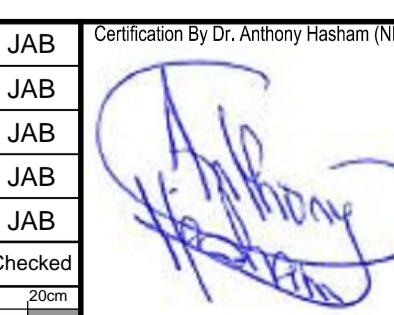


UNDERGROUND OSD TANK PLAN VIEW

SCALE 1:25

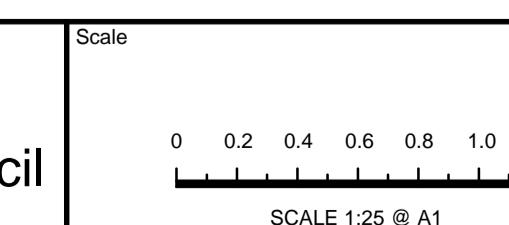
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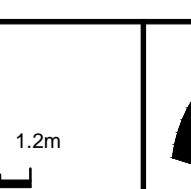
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Scale

 SCALE 1:25 @ A1

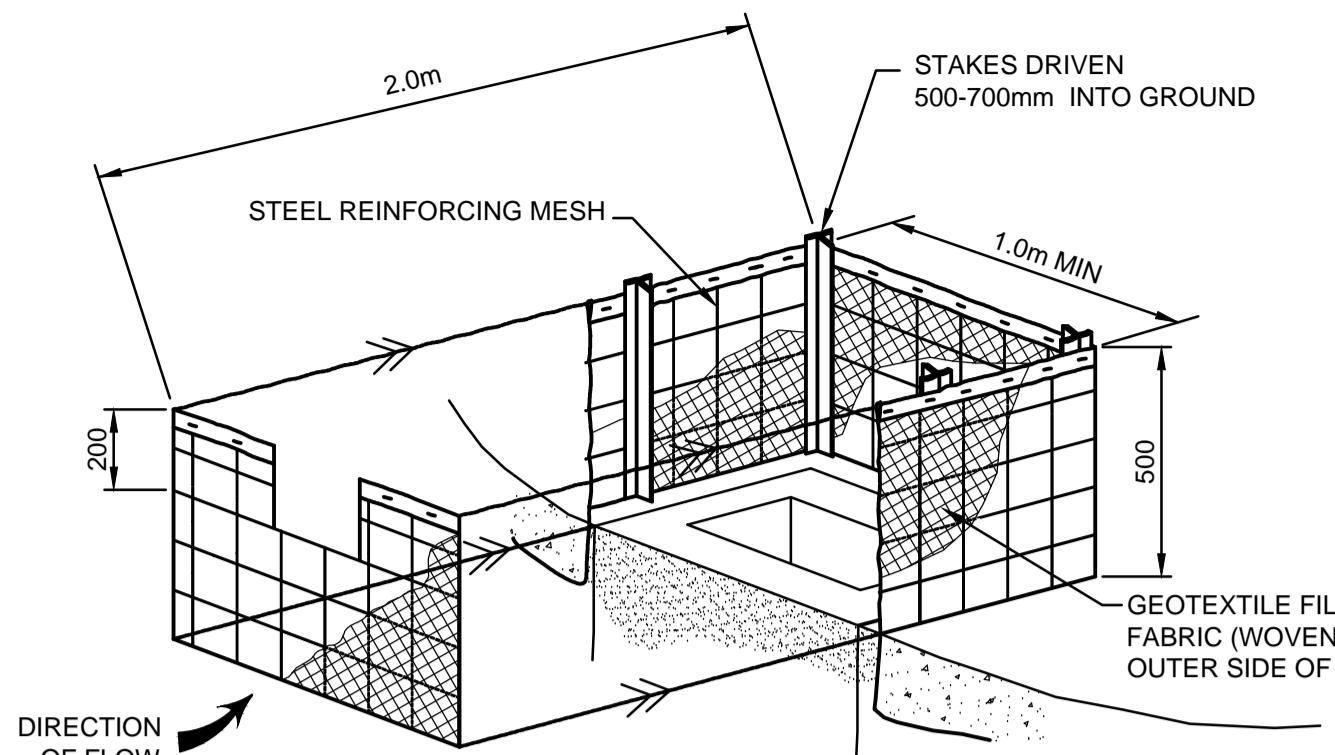
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PROPOSED MOSQUE
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

Drawing Title
ON-SITE DETENTION DETAILS AND CALCULATION SHEETS SHEET 2 OF 2
 Scale A1 Project No. 180511 Dwg. No. 105 Issue E
 As Shown

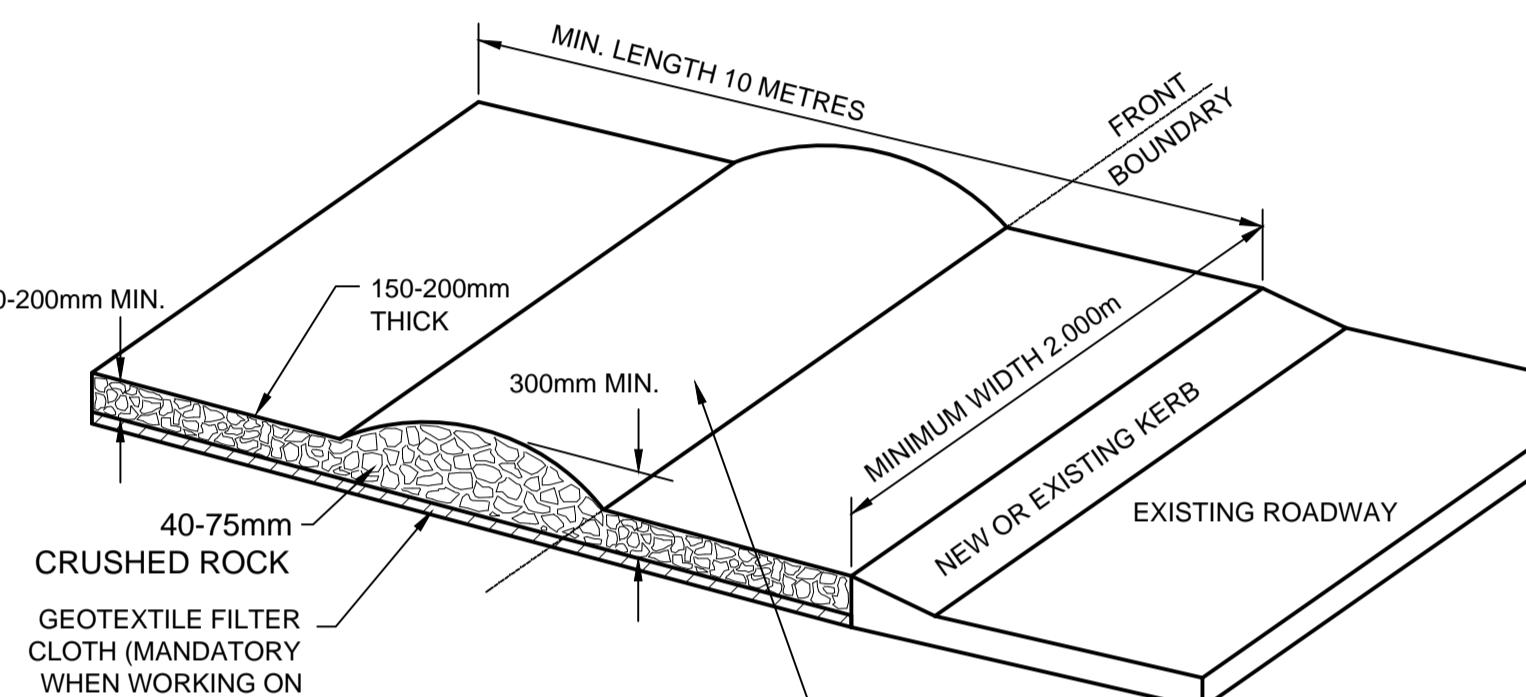
SEDIMENT & EROSION NOTES

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 THROUGH OUT 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 SUPERINTENDENTS 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.



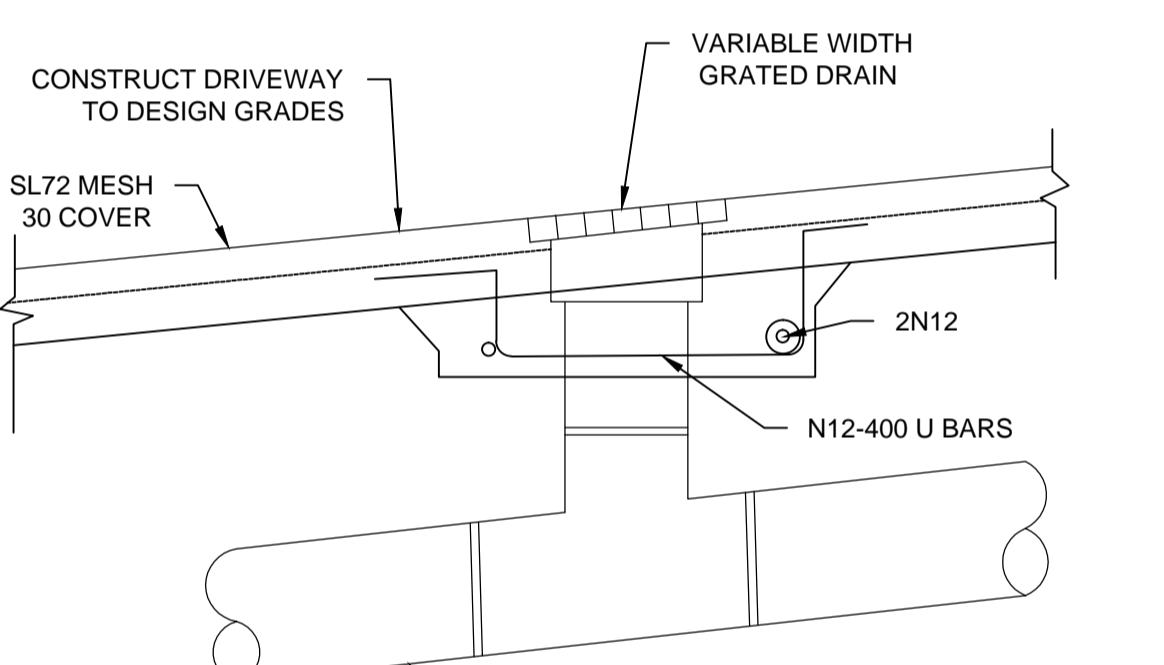
FIELD INLET SEDIMENT TRAP

N.T.S.



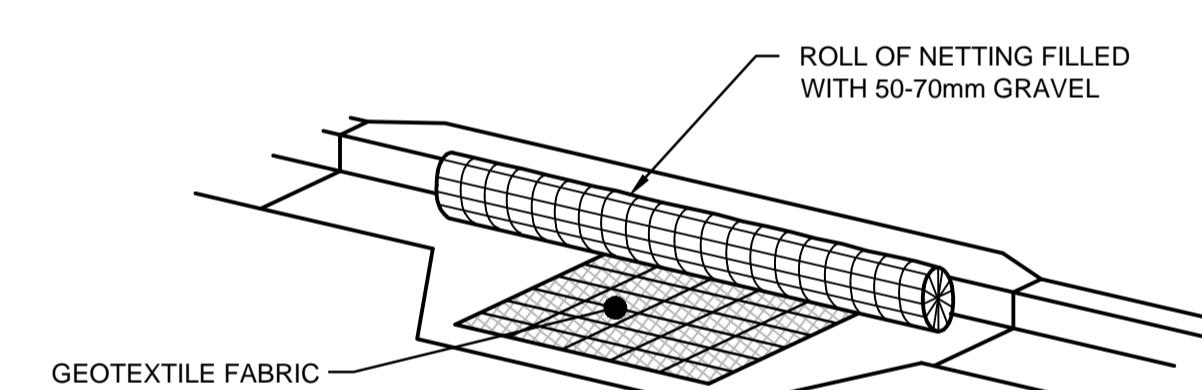
SHAKEDOWN DEVICE

N.T.S.



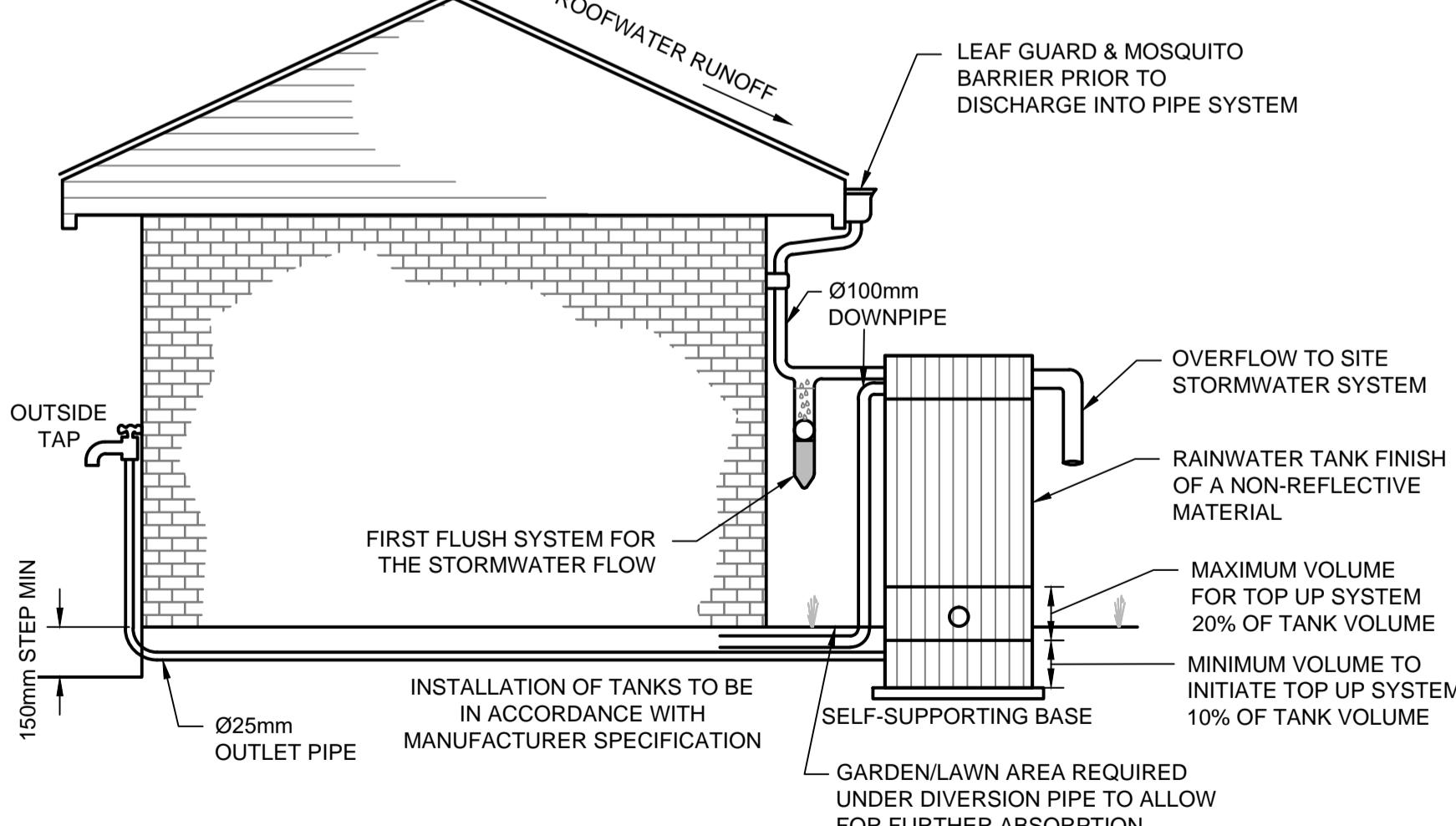
GRATED DRAIN DETAIL

N.T.S.



**KERB INLET PROTECTION
SAG GULLIES**

N.T.S.

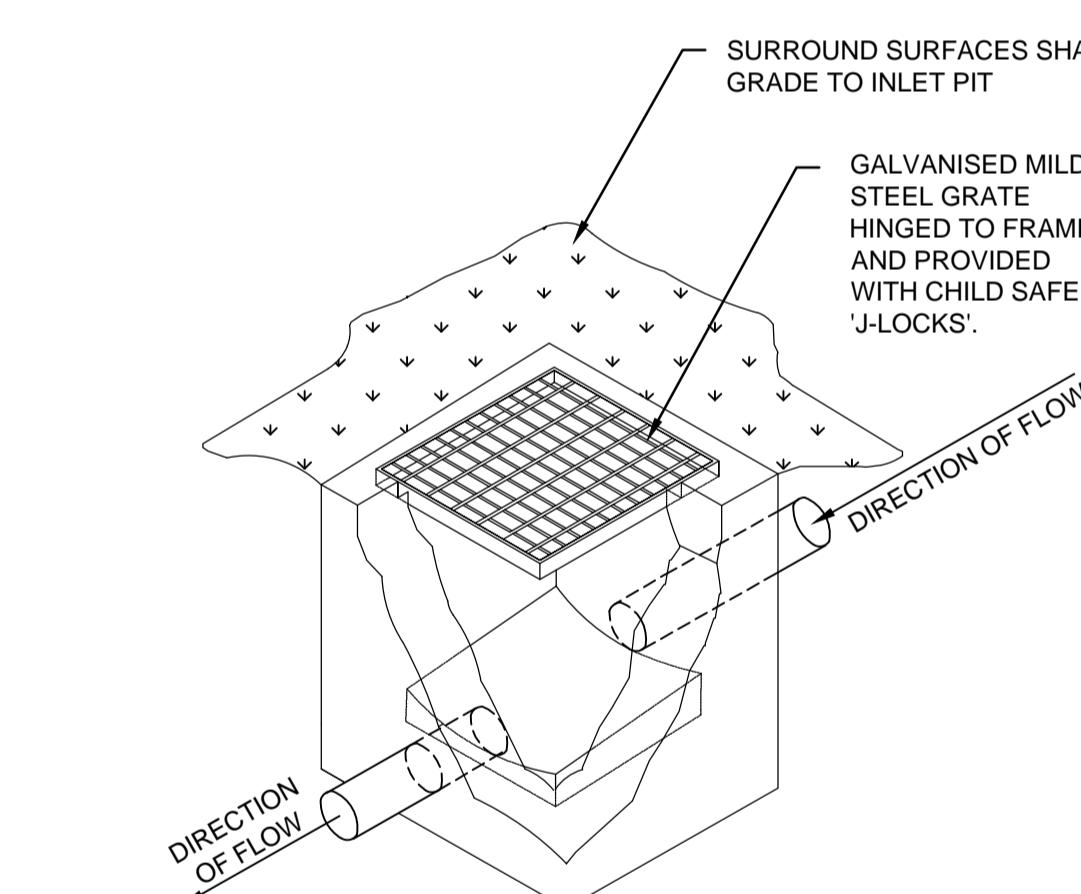


RAINWATER TANK DETAIL

N.T.S.

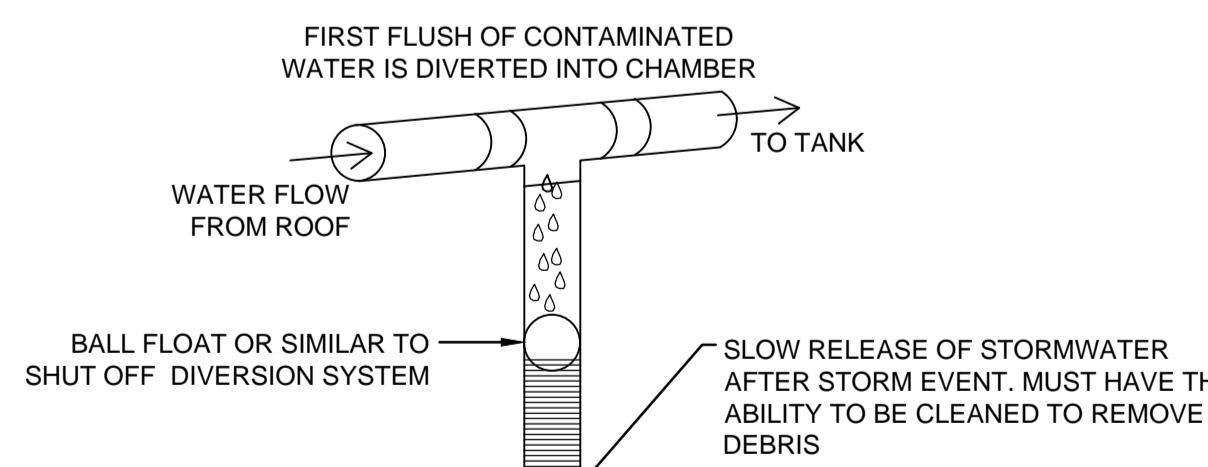
STORAGE TANK NOTES:

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 DRAIN 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 1.8 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.



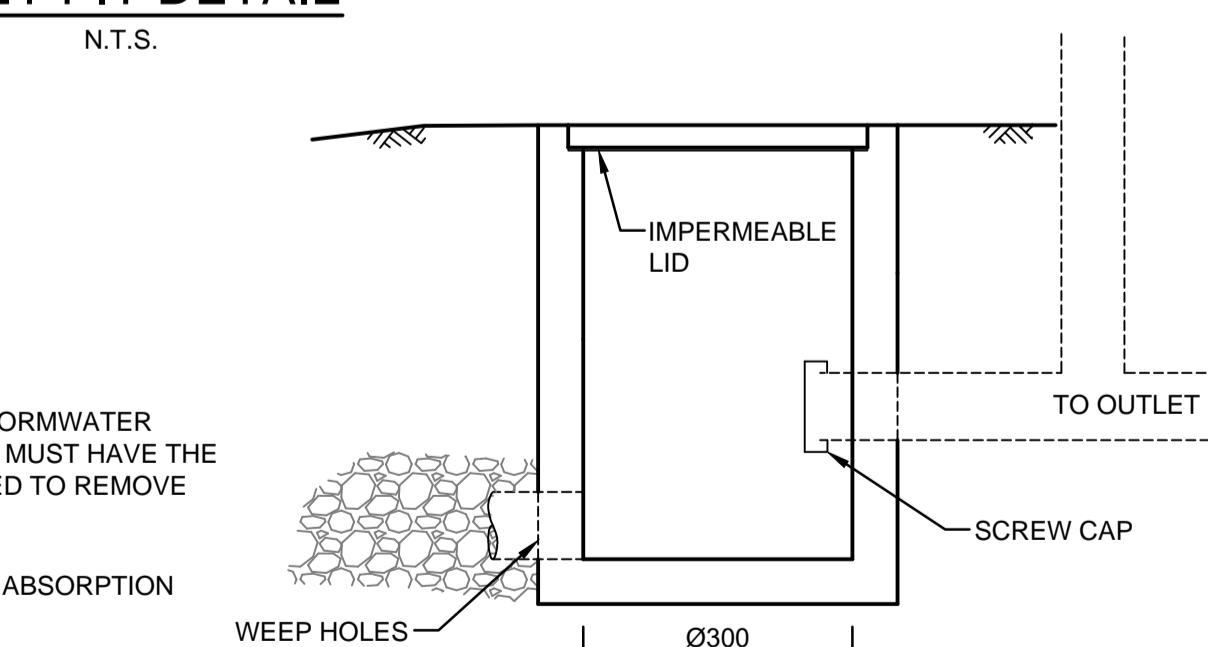
**TYPICAL GRATED
INLET PIT DETAIL**

N.T.S.



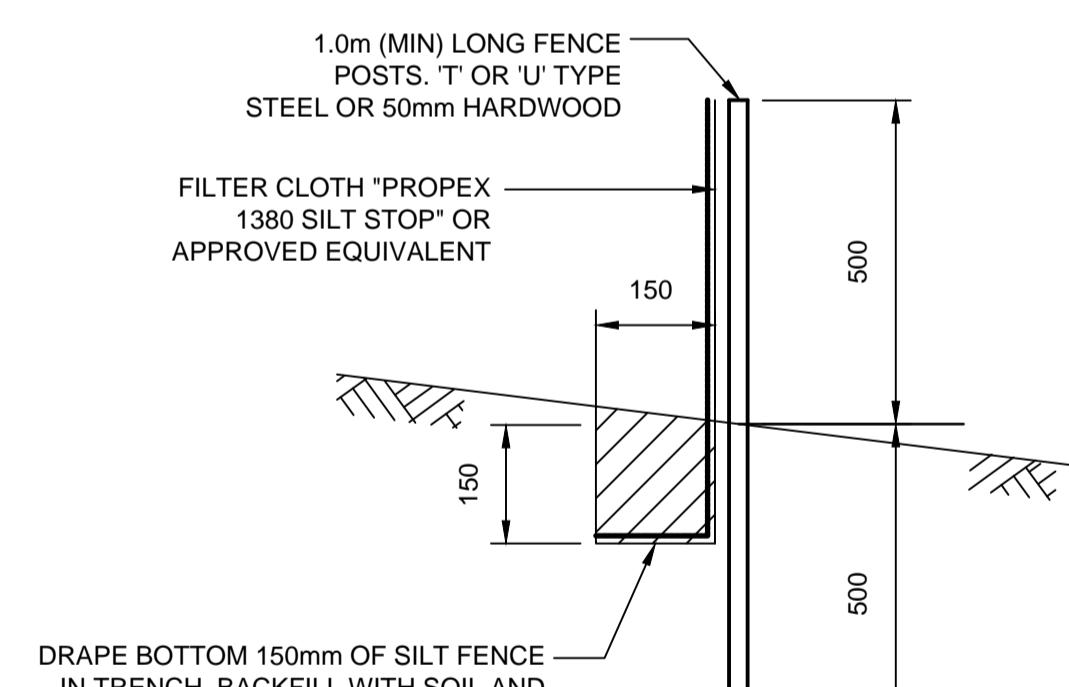
**FIRST FLUSH WATER
DIVERTER DETAIL**

N.T.S.



CLEANING EYE DETAIL

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 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

E	COUNCIL COMMENTS	03/06/2019	JTF	JAB
D	ARCHITECTURAL AMENDMENTS	01/02/2019	JTF	JAB
C	COUNCIL COMMENTS	12/06/2018	JTF	JAB
B	COUNCIL COMMENTS	17/05/2018	JTF	JAB
A	ISSUE FOR DEVELOPMENT APPLICATION	19/04/2018	JTF	JAB
Issue	Description	Date	Design	Checked
		1cm at full size	10cm	20cm

Certification By Dr. Anthony Hasham (NPER):

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Council
The Hills Shire Council

Scale

 SCALE 1:200 @ A1

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Project
**1 LARAPINTA PLACE, GLENHAVEN NSW
PROPOSED MOSQUE
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION**

Drawing Title
**MISCELLANEOUS
DETAILS SHEET**

Scale A1 Project No. 180511 Dwg. No. 106 Issue E