

D
D.P. 3 1 1 9
3 9

LOT 16
SEC 2
D.P. 6 3 9 6

BRICK SHED
RR46.05
RR46.06

METAL FENCE
RR47.32
GU46.67
GU46.66

450 SQ
SILT ARRESTOR PIT
CL 43.50
IL PIPE 43.35
IL PIT 43.15

HIGHCLERE AVENUE
BITUMEN

LOT 1
SEC F
D.P. 5 7 2 0
17.54m
57' 40"

LOT 27
SEC F
D.P. 5 7 2 0

SLIMLINE 'THIN TANK'
ABOVE GROUND 1500L
1900L x 1560H x 550W
PIPES IN & OUT
@ RL 45.06

O.S.D. = 0.20m x 30m = 6.00m³
T.W.L. 43.90
B.W.L. 43.70

EXISTING VEHICULAR
CROSSING TO REMAIN
CONCRETE
Trunk 0.4mØ
Spread 5m
Height 6m
TREE TO REMAIN

VEHICLE CROSSING
BM (NAIL IN
RERB3.73
(AHD))

TOP KERB OF & CONCRETE GUTTER

LOT 2
SEC F
D.P. 5 7 2 0

LOT 27
SEC F
D.P. 5 7 2 0

SLIMLINE 'THIN TANK'
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TOP KERB OF & CONCRETE GUTTER

SITE DRAINAGE PLAN

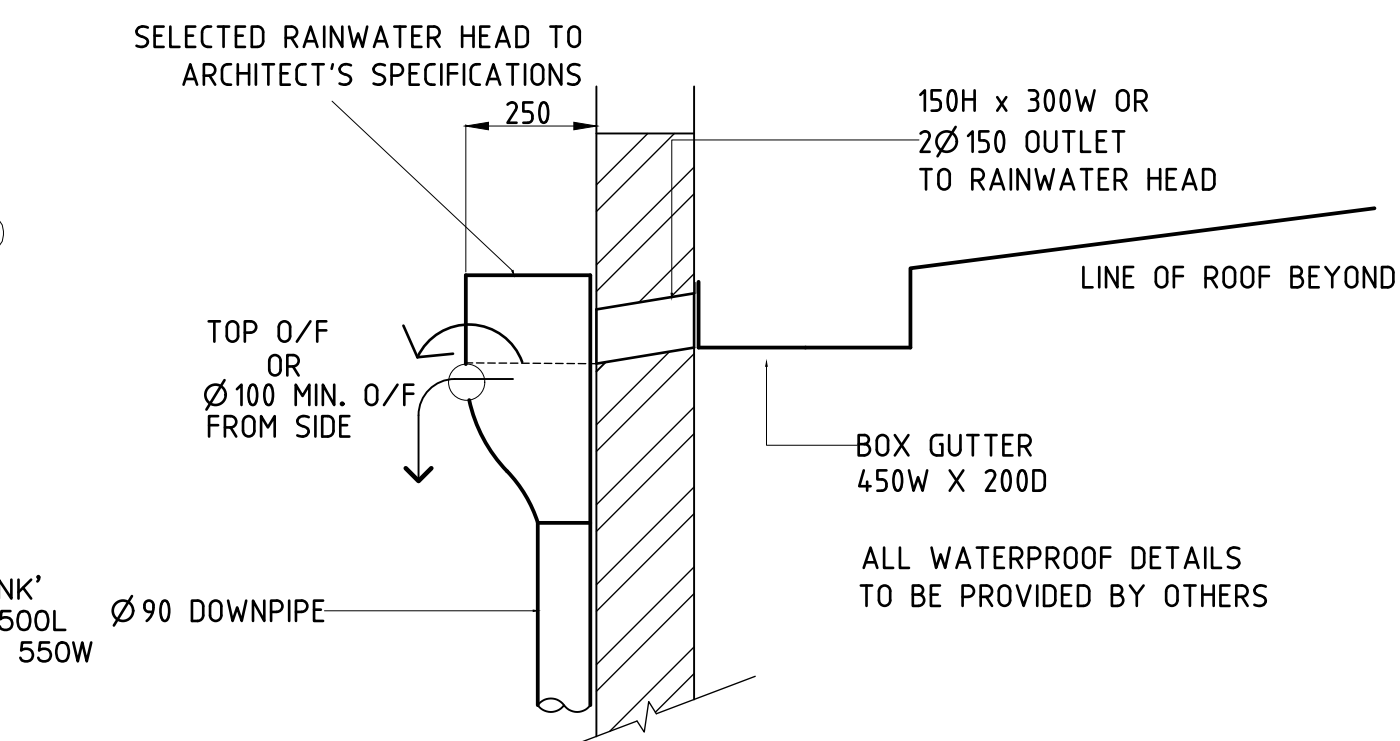
SCALE 1: 200 (A3)
SCALE 1: 100 (A1)

- ALL GUTTERS TO BE QUAD MINIMUM SIZE TO ARCHITECTURAL SPECIFICATIONS.
- ALL PLANTING AREAS ARE TO HAVE SUB-SOIL DRAINAGE AG. LINES WRAPPED WITH GEOTEXTILE FABRIC AND SURROUNDED WITH BLUE METAL OR ATLANTIS SUB-SOIL DRAINAGE CELLS. FALL PLANTER BASES TO OUTLETS.
- ALL BALCONIES ARE TO HAVE A Ø65mm OVERFLOW PIPE OR AN 80mm SQUARE OPENING ACTING AS AN OVERFLOW.
- ALL DOWNPIPES TO BE 90mm DIAMETER PVC OR EQUIVALENT. TO ARCHITECTURAL SPECIFICATIONS.
- PROVIDE INSPECTION OPENING AT THE BASE OF EACH DOWNPIPE THAT IS CONNECTED TO RAINWATER TANK.
- PROVIDE AG.LINES BEHIND ALL RETAINING WALLS AND SUBSOIL DRAINAGE AS PER STRUCTURAL ENGINEERING DETAILS.ALL LINES TO DRAIN TO PITS.

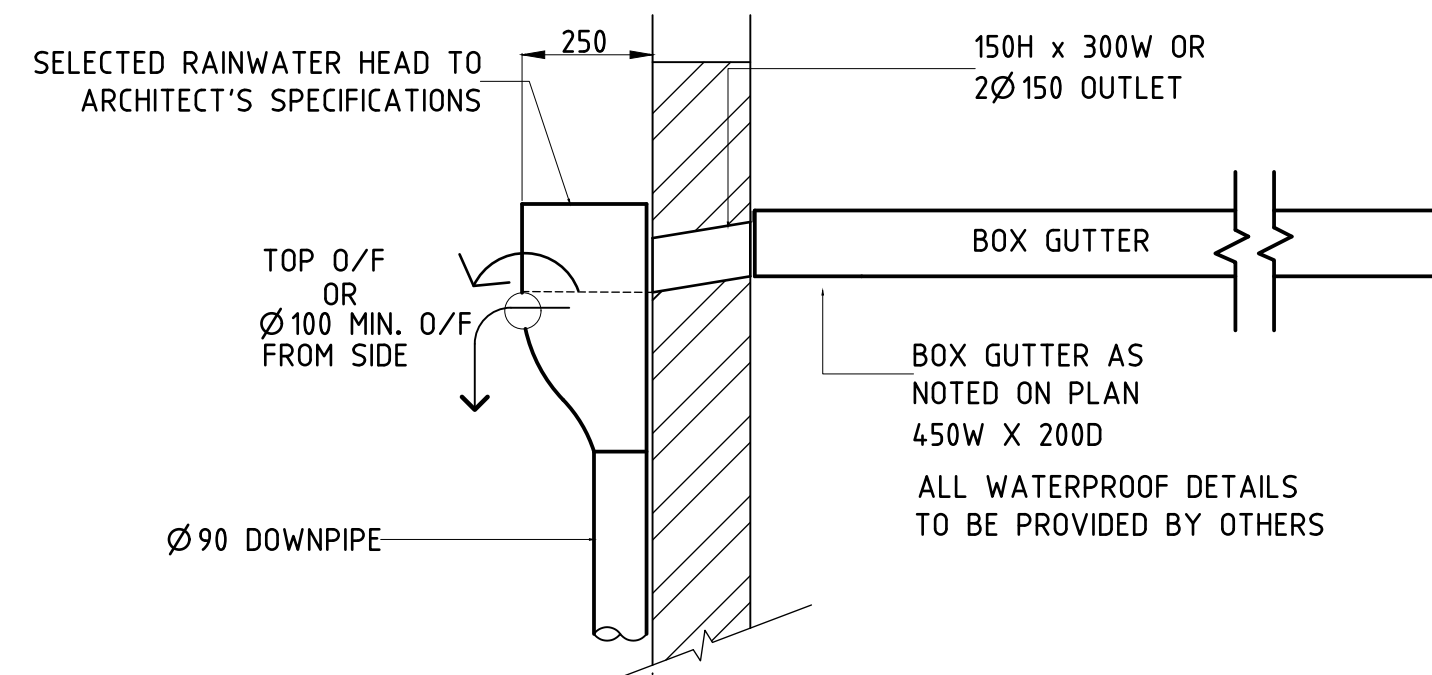
28.75 DENOTES PROPOSED LEVEL 26.53 DENOTES EXISTING LEVEL

NOTE: IMPERVIOUS AREA MUST REMAIN UNDER 75% OTHERWISE OSD POLICY APPLIES

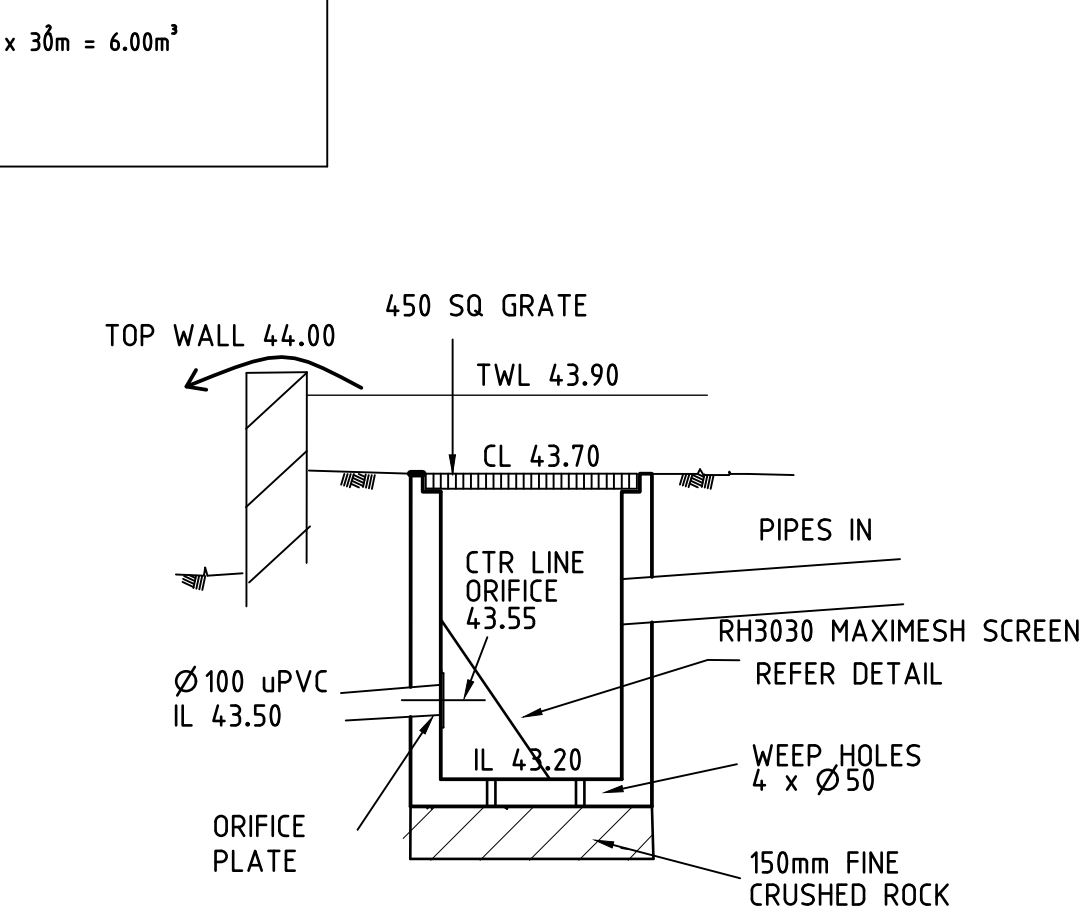
TOTAL AREA : 838m²
AREA OF IMPERVIOUS SURFACE : 647m²
PERCENTAGE OF IMPERVIOUS SURFACE : 77%
THEREFORE OSD IS REQUIRED



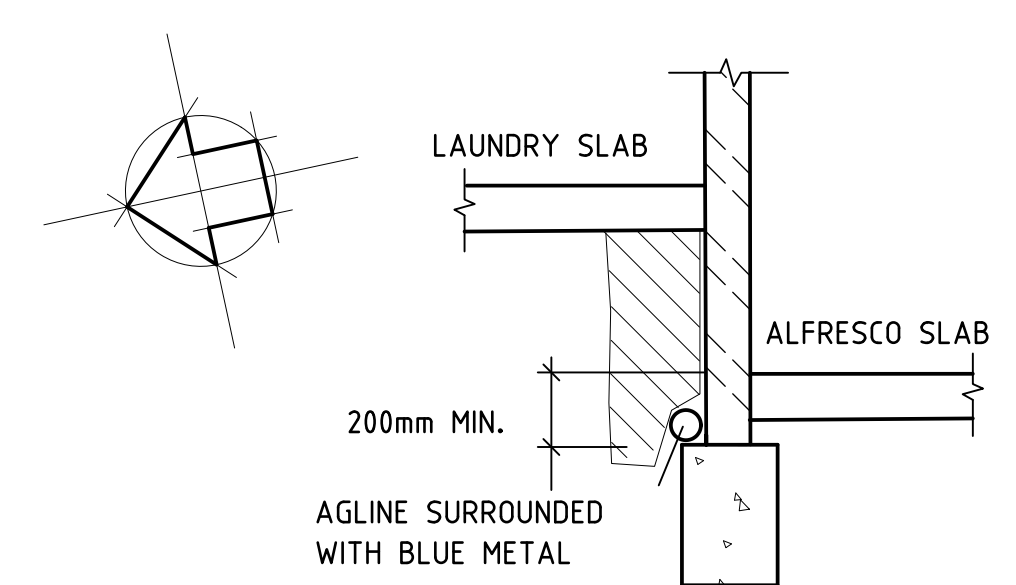
ROOF OUTLET/RAINHEAD DETAIL



ROOF OUTLET/RAINHEAD DETAIL



CONTROL PIT DETAIL

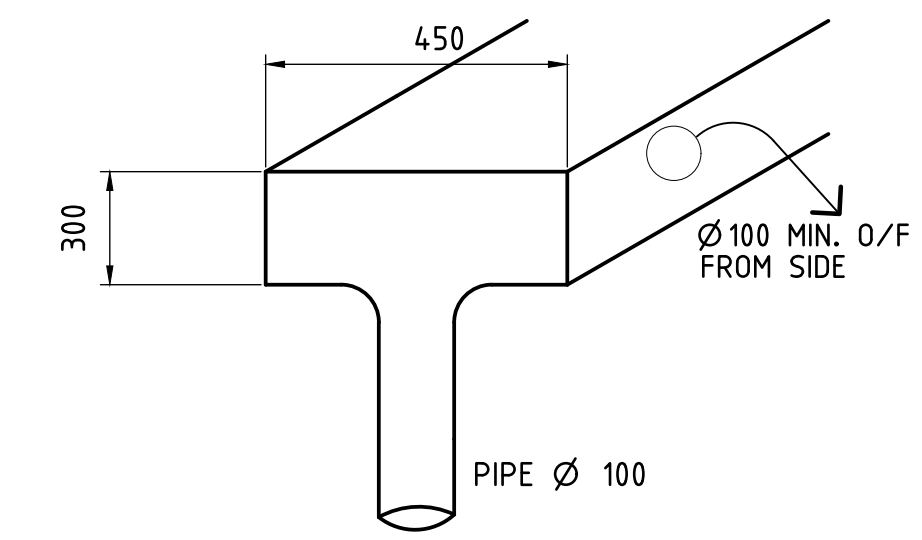


TYPICAL STEPDOWN DRAINAGE DETAIL

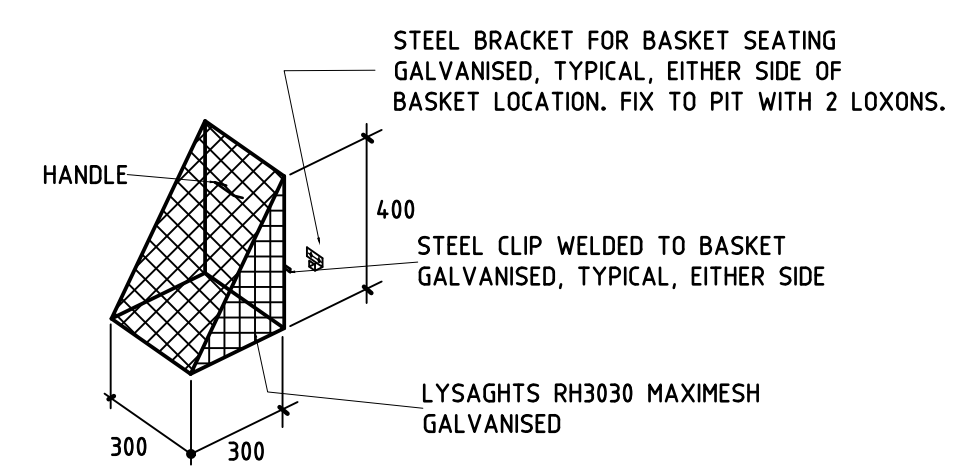


DIMENSIONS: 120MM X 150MM
BACKGROUND COLOUR IS YELLOW.
TEXT IS WHITE ON BLACK
BACKGROUND
TAP SYMBOL IS BLACK.

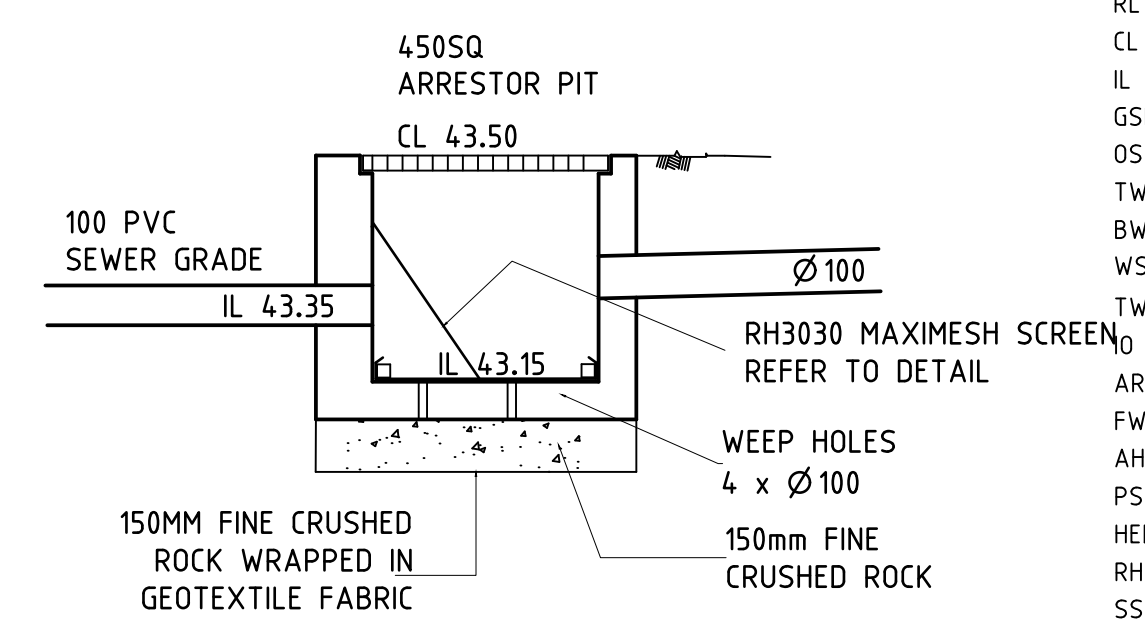
RAINWATER TANK SIGNAGE



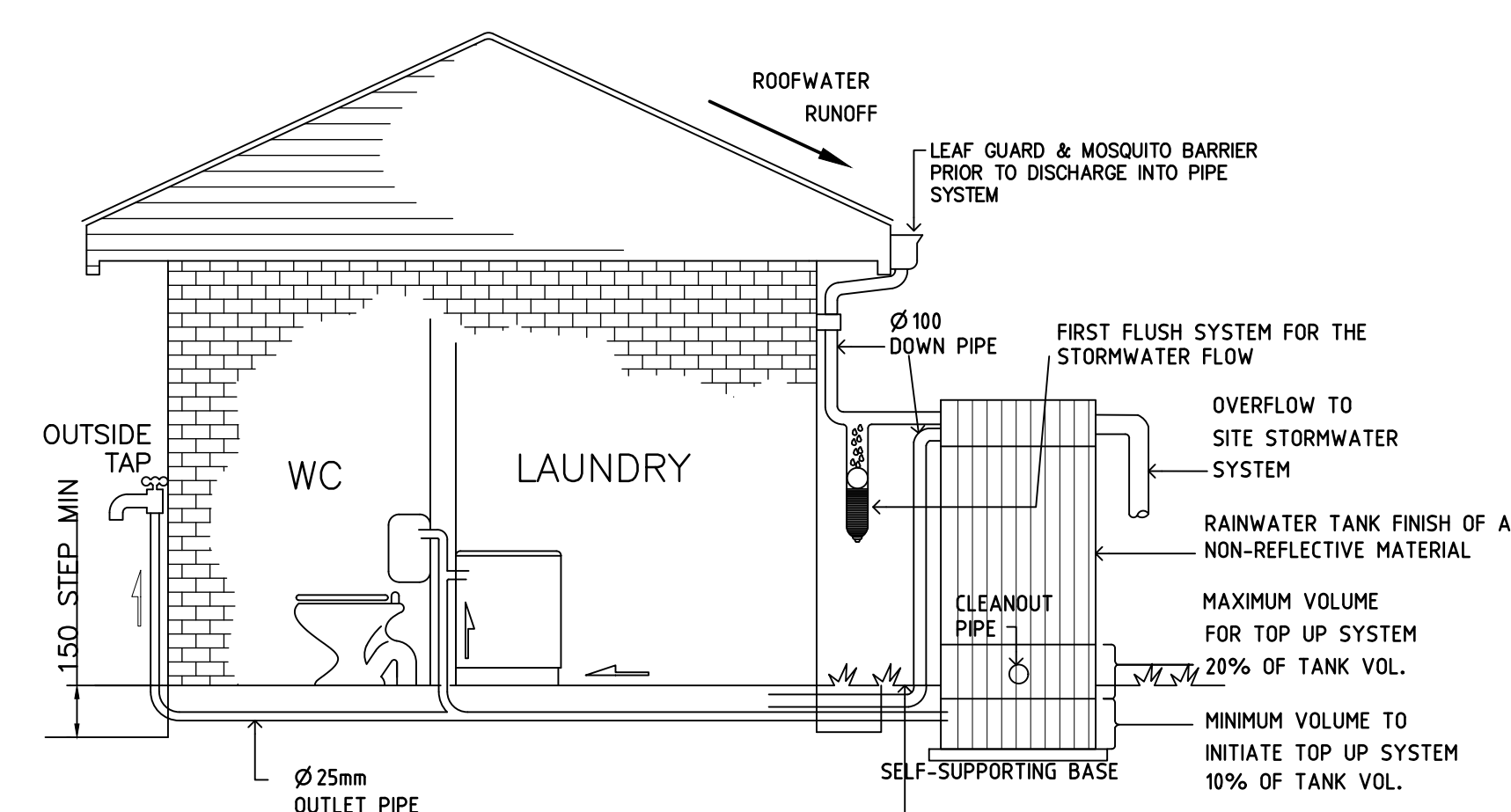
TYPICAL BOX GUTTER



SCREEN DETAIL

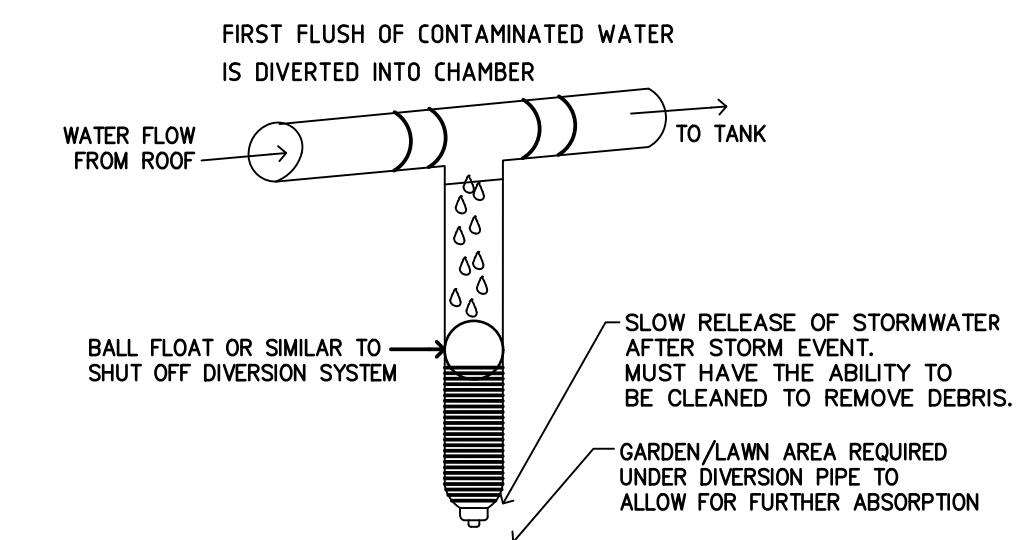


SILT ARRESTOR PIT

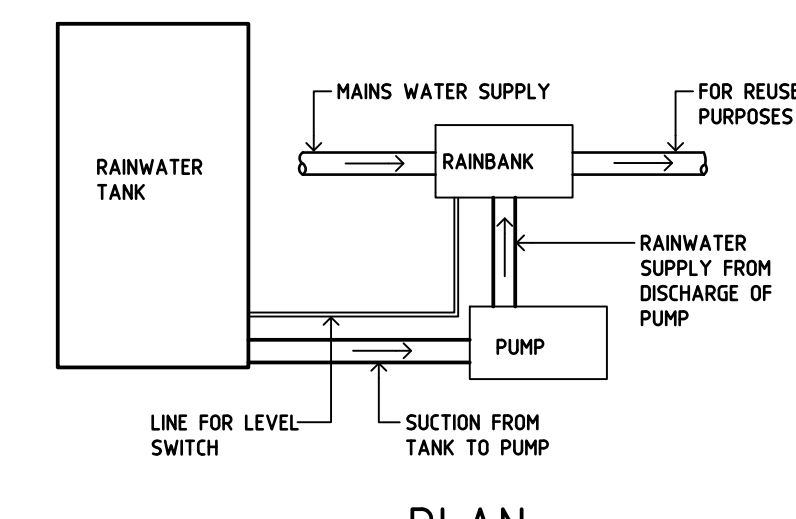


RAINWATER TANK DETAIL

N.T.S.
INSTALLATION OF TANKS TO BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATION.



FIRST FLUSH WATER DIVERTER DETAIL



PLAN

N.T.S.

NOTES:

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- DRAINAGE PITS ARE TO BE 450mm SQUARE OR LARGER AS SHOWN, AND FITTED WITH A GALVANISED GRATE.
- ALL PITS ARE TO HAVE A GALVANISED GRATE AND FRAME. FRAME TO BE CAST INTEGRALLY WITH THE PIT.
- ALL PITS ARE TO BE BENCHED TO HALF PIPE LEVEL.
- PROVIDE STEP IRONS WHERE PIT IS DEEPER THAN 1m. AT 450mm CENTRES.
- DRAINAGE PIPE SIZES ARE 100mm DIAMETER UNLESS OTHERWISE NOTED.
- DRAINAGE PIPES SHALL BE SEWER GRADE uPVC UNLESS OTHERWISE NOTED.
- ALL BARE SOIL AREAS ARE TO BE PROTECTED FROM EROSION BY TEMPORARY MEASURES AND REVEGETATED AT THE CESSATION OF CONSTRUCTION.
- THE DOWNHILL BOUNDARY OF THE SITE IS TO BE PROTECTED BY HAY BALES OR A FILTER FABRIC FENCE DURING CONSTRUCTION AS SHOWN IN THE ATTACHED DETAILS.
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-

RAINWATER TANK NOTES:

CONNECT ROOFWATER AS PER BASIX REQUIREMENTS

RECYCLED WATER CONNECTIONS AS PER BASIX REQUIREMENTS

PROVIDE A MAINS BYPASS IN THE EVENT OF LOWER WATER LEVELS IN THE TANK OR POVER FAILURE.

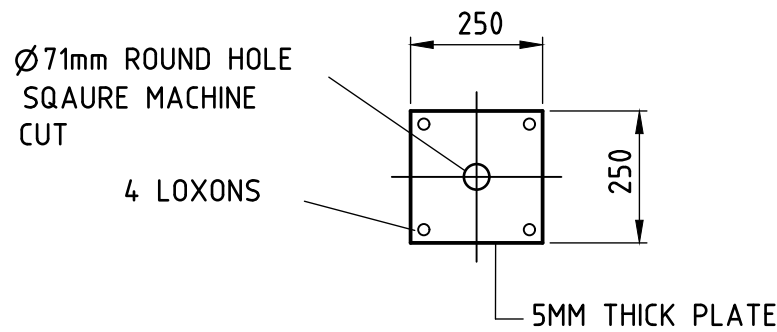
PROVIDE WARNING LABEL AS PER SYDNEY WATER REQUIREMENT INDICATING THAT THE WATER IS RAINWATER AND NOT TO BE CONSUMED

PROVIDE A FIRST FLUSH DIVERSION DEVICE AND SCREENING PRIOR TO WATER REACHING RAINWATER TANK.
www.rainharvesting.com.au or equivalent

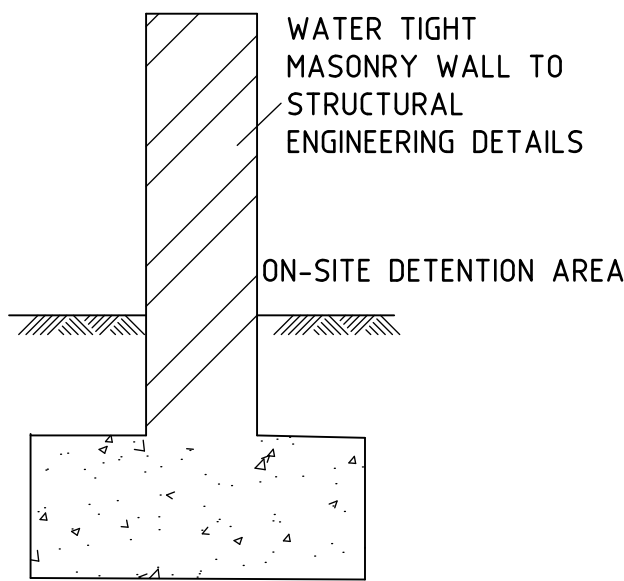
LEGEND

- RL REDUCED LEVEL
- CL COVER LEVEL
- IL INVERT LEVEL
- GSIP GRATED SURFACE INLET PIT
- OSD ON-SITE DETENTION
- TWL TOP WATER LEVEL
- BWL BOTTOM WATER LEVEL
- WSL WATER SURFACE LEVEL
- TW TOP OF WALL
- INSPECTION OPENING
- AVERAGE RECURRENCE INTERVAL
- FW FLOOR WASTE
- AHD AUSTRALIAN HEIGHT DATUM
- PSD PERMISSIBLE SITE DISCHARGE
- HED HIGH EARLY DISCHARGE
- RHS RECTANGULAR HOLLOW SECTION
- SS STAINLESS STEEL
- FRC FIBRE REINFORCED CONCRETE
- RCP REINFORCED CONCRETE PIPE
- RRJ RUBBER RING JOINT
- U/S UNDERSIDE OF SLAB
- O/F OVERFLOW
- RWO RAIN WATER OUTLET DROPPER

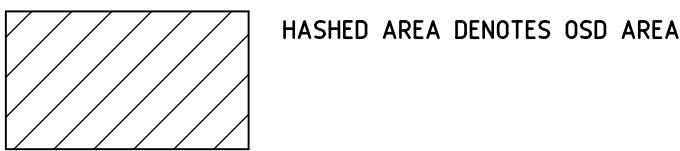
A	04.07.23	FOR DA APPROVAL	TA	
REV.	DATE	AMENDMENT DESCRIPTION	DRAWN	
TAA CONSULTING GROUP Tony Ahal Registered Engineer Design Practitioner. 201/25 FALCON STREET CROWS NEST NSW 2065 Ph: 0411778799 Email: engineers@taaconultinggroup.com				
PROPOSED RESIDENTIAL DEVELOPMENT 133 HIGHCLERE AVENUE, PUNCHBOWL				
STORMWATER DRAINAGE & SEDIMENT CONTROL DETAILS				
DRAWN	CHECKED	SCALE	DATUM	DRAWING No.
TA	TONY AHAL - Civil & Structural Engineer (B.E., M.Built.Surv., (MEAut))1080225	AS SHOWN	N/A	H133H-S1/2
				REV.
				A



ORIFICE PLATE



RETAINING WALL



ONSITE DETENTION NOTE:

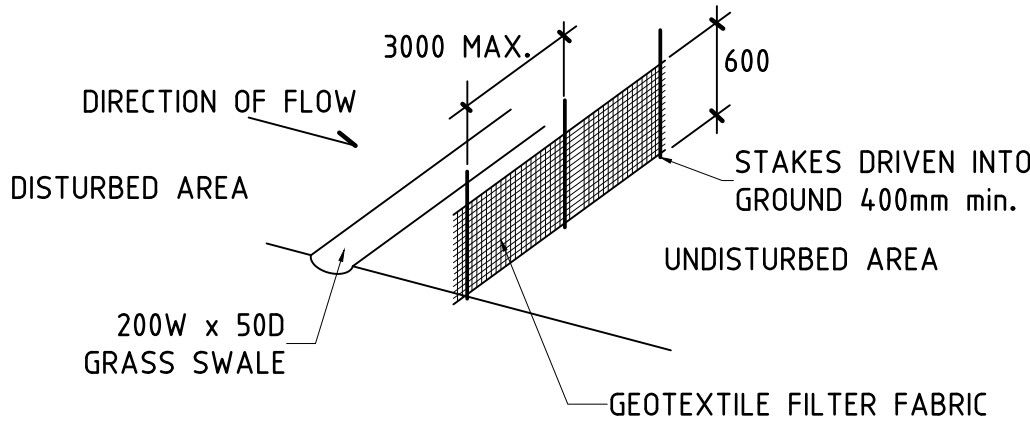
Plaque to be installed:
“ This Onsite stormwater detention system will pond after heavy rain.
The outlet pit must be cleared of debris regularly.”

On Site-Detention

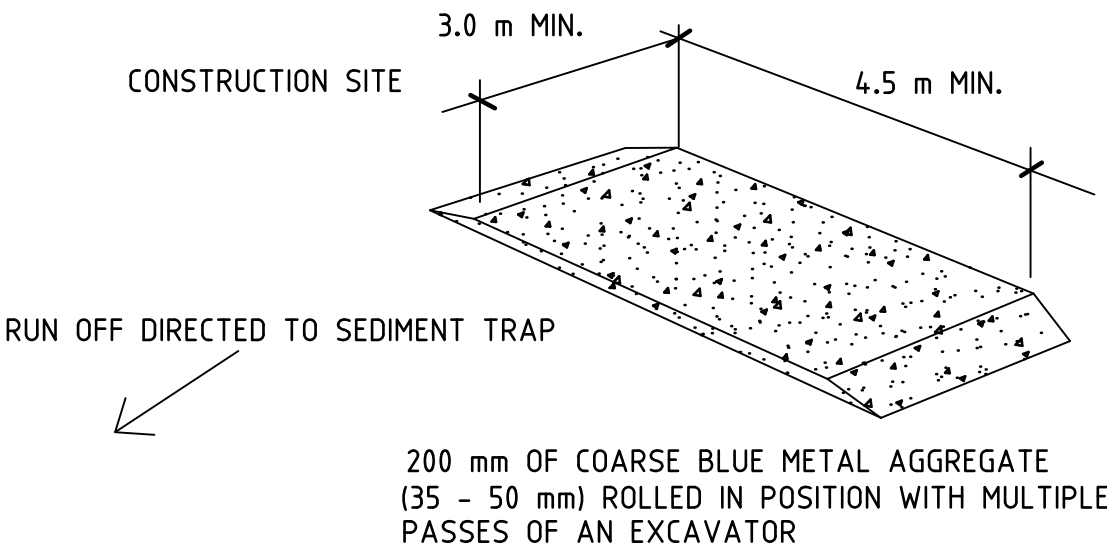
Design Summary

Quantity	Value
Design Area	838 m ²
Impervious Area Pre - Development	75 %
Impervious Area Post Development	77 %
Length of Flow	50 m
Site slope	5.0 %
Roughness	0.2
Area drained to the Control Pit (%)	90.0 %
Permissible Site Discharge @ 5 yrs ARI	17.0 L/s
Required Storage @ 5 yrs ARI	1 m ³
Permissible Site Discharge @ 10 yrs ARI	20.0 L/s
Required Storage @ 10 yrs ARI	2 m ³
Permissible Site Discharge @ 20 yrs ARI	24.0 L/s
Required Storage @ 20 yrs ARI	3 m ³
Permissible Site Discharge @ 50 yrs ARI	27.0 L/s
Required Storage @ 50 yrs ARI	4 m ³
Permissible Site Discharge @ 100 yrs ARI	30.0 L/s
Required Storage @ 100 yrs ARI	6 m ³

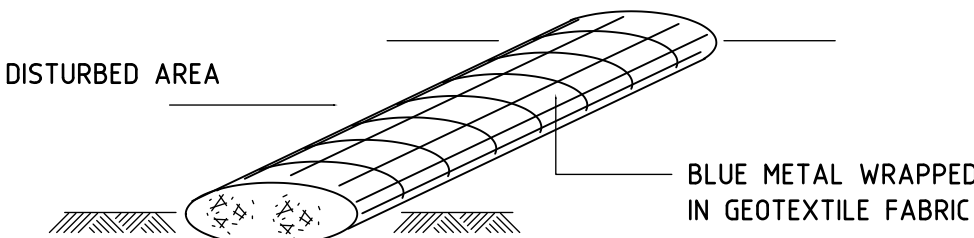
The pre and post - development peak discharge from the subject site were determined for the 5, 10, 20 , 50 & 100yrs ARI, for storm duration of 10, 20, 30 & 45 minutes using DRAINS computer program and Bankstown Rainfall Files.



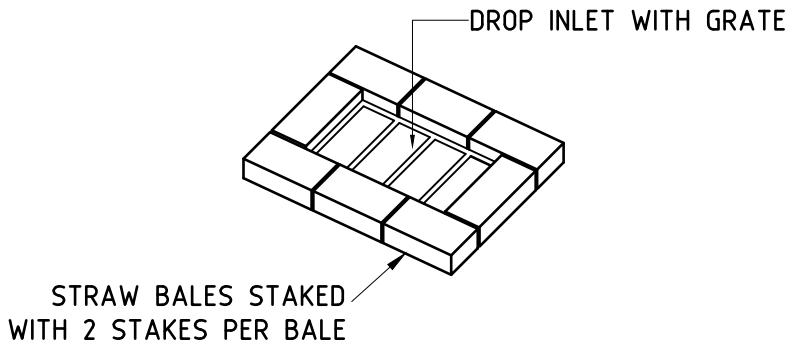
SEDIMENT FENCE DETAIL



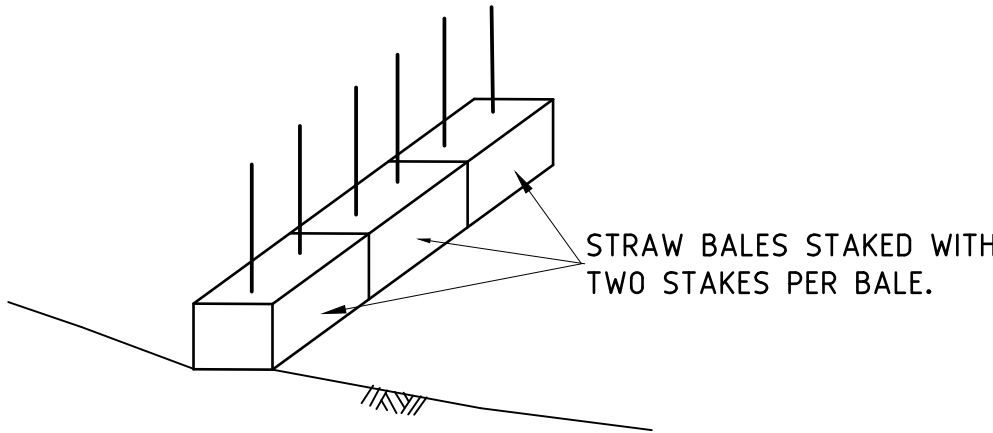
CONSTRUCTION ENTRY/EXIT DETAIL



SEDIMENT BARRIER



STRAW BALE DROP INLET



STRAW BALE SEDIMENT TRAP

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DRAWN	CHECKED	SCALE	DATUM
TA	TONY AHAL - Civil & Structural Engineer (B.E., M.BUILD.Surv., (MEAut))1080225	AS SHOWN	N/A
		DRAWING No.	REV.
		H133H-S2/2	A