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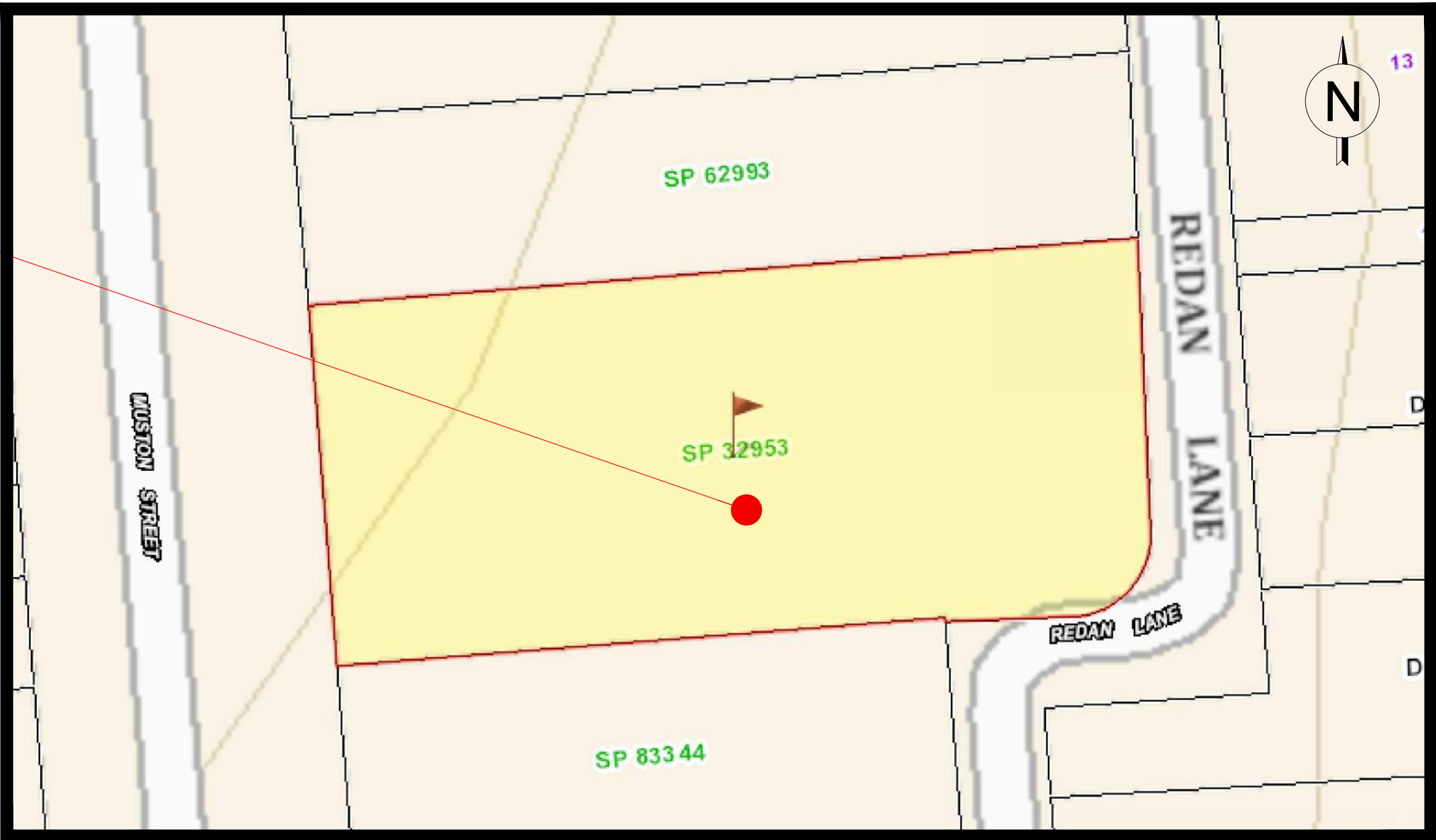
PROJECT ADDRESS:
65 MUSTON ST, MOSMAN NSW 2088

DRAWING INDEX & COVER SHEET: STORMWATER

DWG No.	DWG TITLES	REVISION
C000	INDEX SHEET	1
C001	GENERAL NOTES	1
C100	EROSION & SEDIMENT CONTROL PLAN	1
C101	EROSION & SEDIMENT CONTROL DETAILS	1
C102	AREA ANALYSIS AND ENGINEERING NOTES	1
C200	STORMWATER MANAGEMENT PLAN - GROUND FLOOR	1
C201	STORMWATER MANAGEMENT PLAN - LOWER GROUND FLOOR 1	1
C202	STORMWATER MANAGEMENT PLAN - LOWER GROUND FLOOR 2	1
C203	STORMWATER MANAGEMENT PLAN - BASEMENT 1	1
C204	STORMWATER MANAGEMENT PLAN - BASEMENT 2	1
C205	ON-SITE DETENTION TANK A DETAILS	1
C206	ON-SITE DETENTION TANK B DETAILS	1
C207	BASEMENT PUMP OUT DETAILS	1
C208	MISCELLANEOUS STORMWATER DETAILS	1
C300	WATER QUALITY MODEL OUTCOME - MUSIC	1
C301	WATER QUANTITY MODEL OUTCOME - DRAINS	1

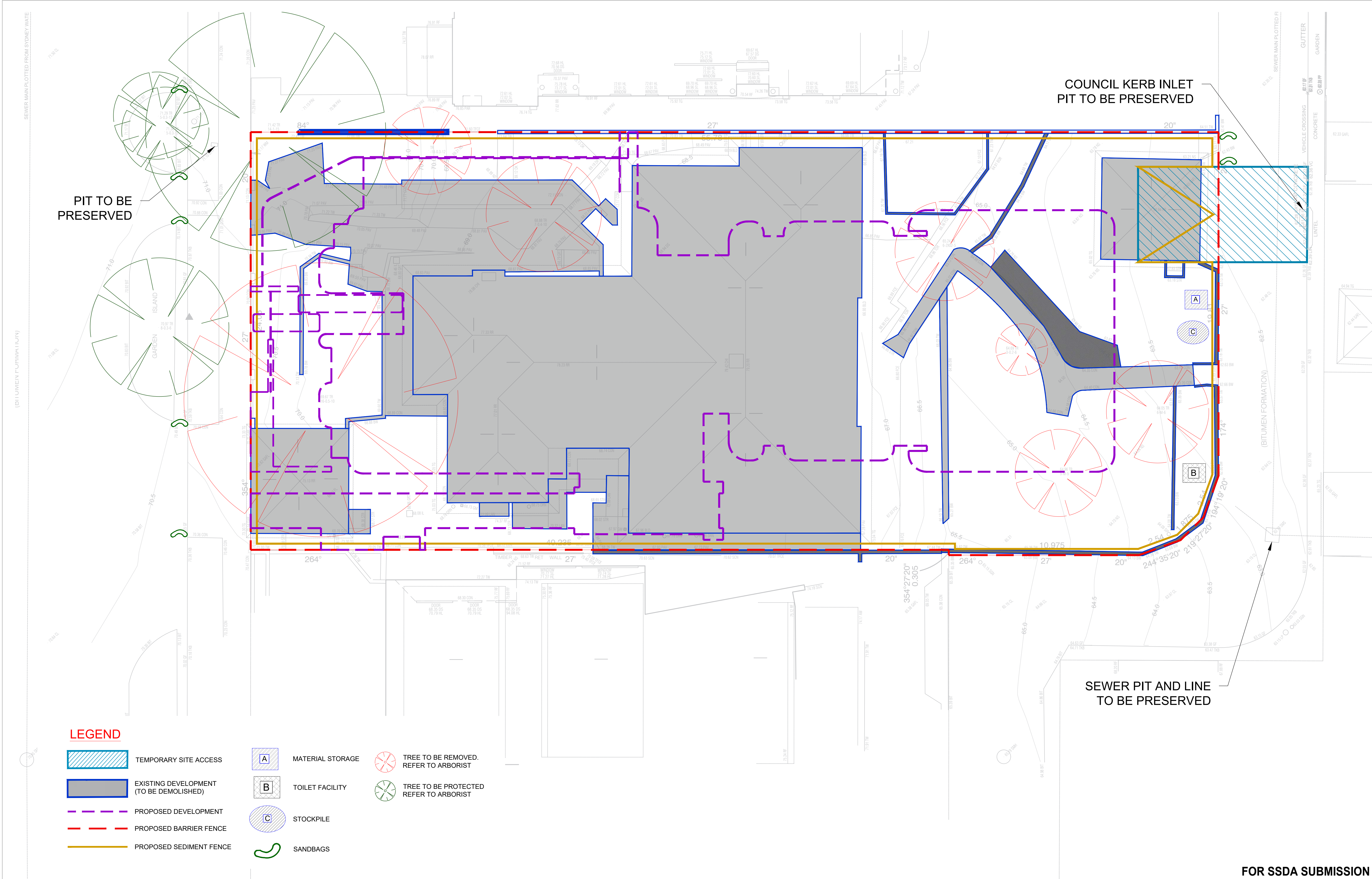


SITE IMAGERY (SDT EXPLORER)



SITE TOPOGRAPHY (SDT EXPLORER)

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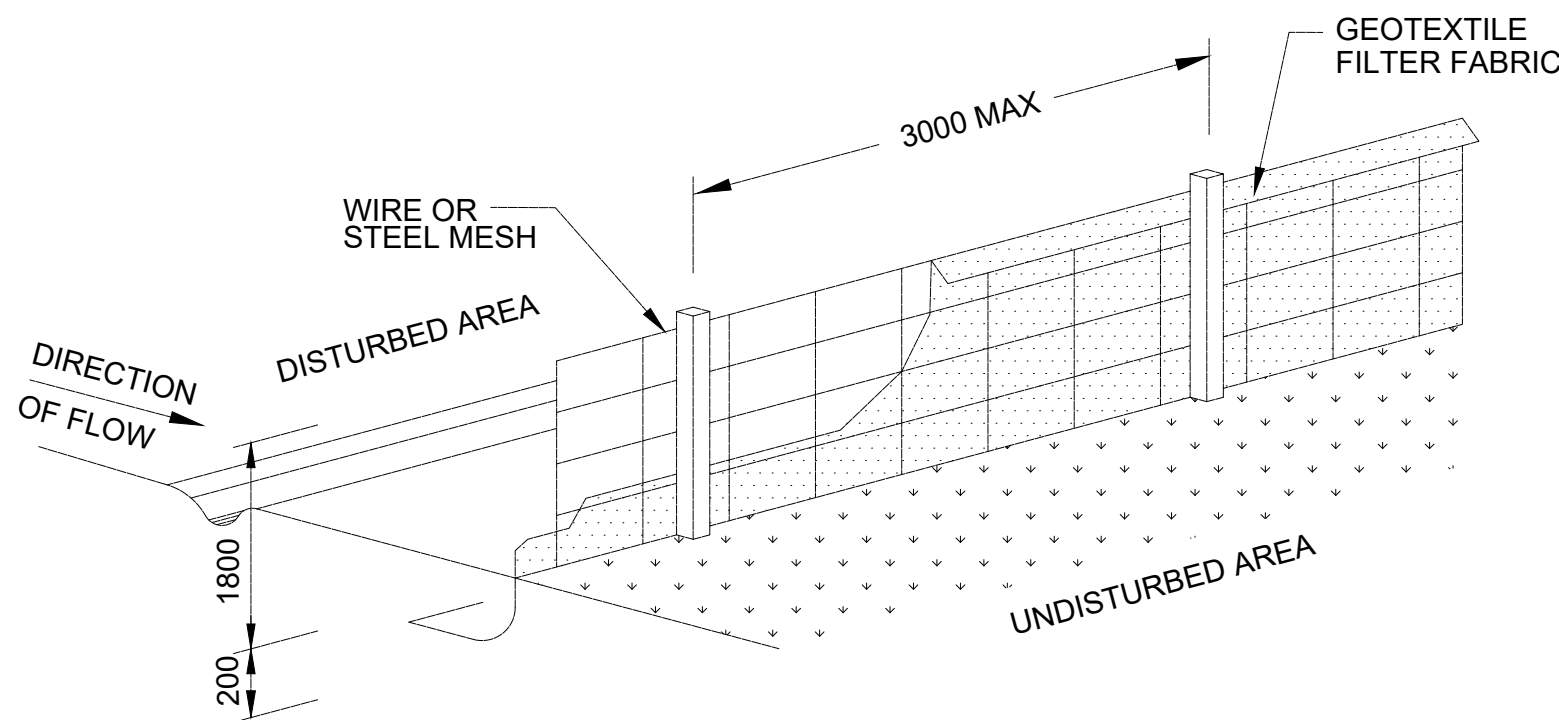
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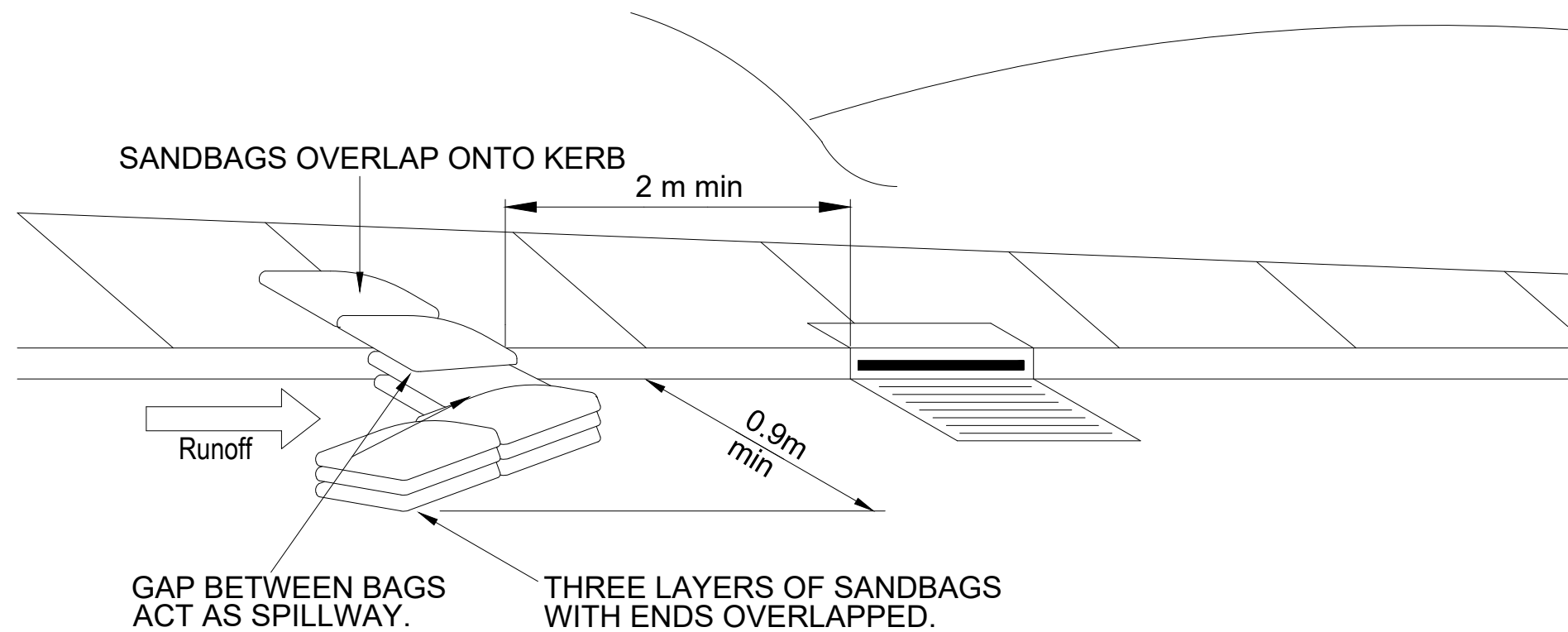
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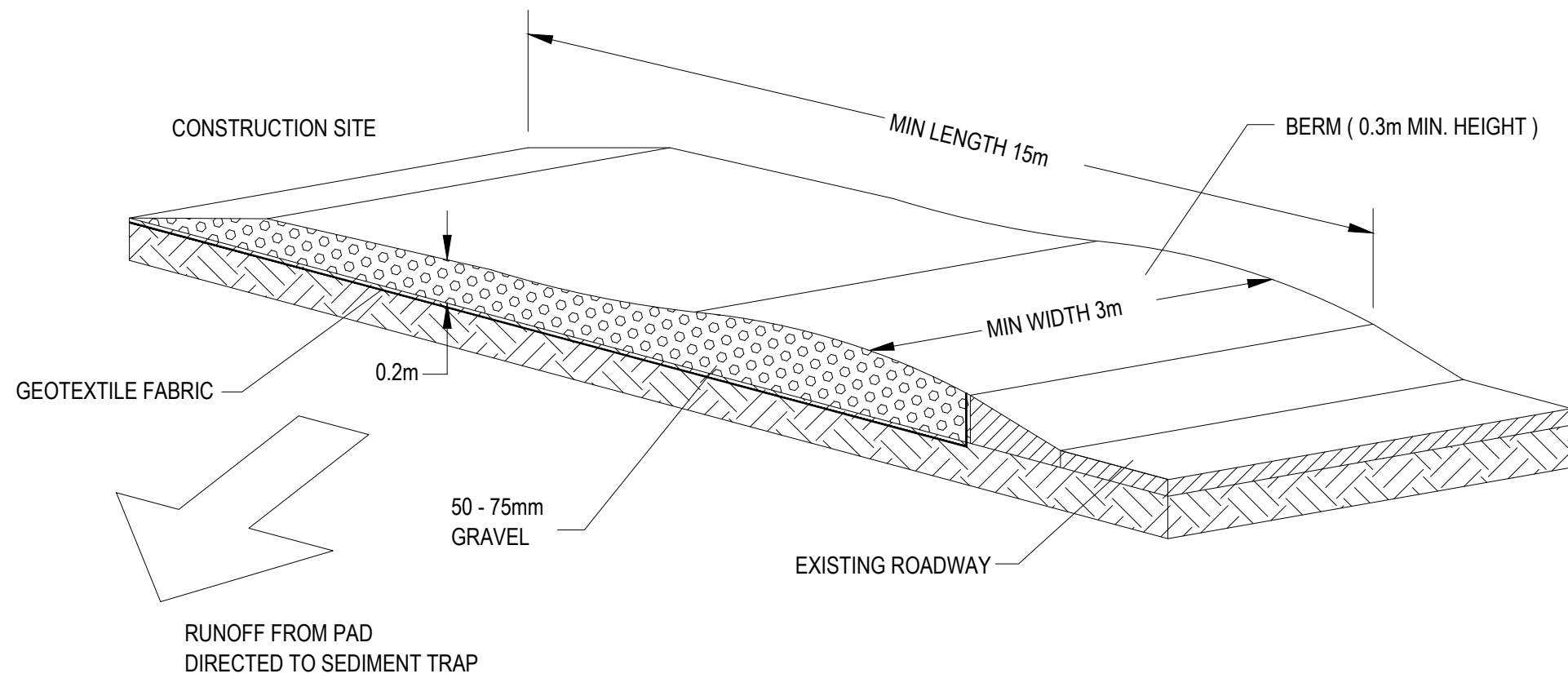
SEDIMENT FENCE

1. TO BE USED AS A TEMPORARY BARRIER TO INTERCEPT SEDIMENT LADEN RUN-OFF FROM SMALL DRAINAGE AREAS
2. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 0.6ha PER LINE OF FENCE.
3. DO NOT USE IF CONCENTRATED FLOW IS DIRECTED TO SILT FENCE.
4. MAXIMUM ALLOWABLE DISTANCE BETWEEN SILT FENCE FOR VARIOUS GRADES LISTED BELOW:

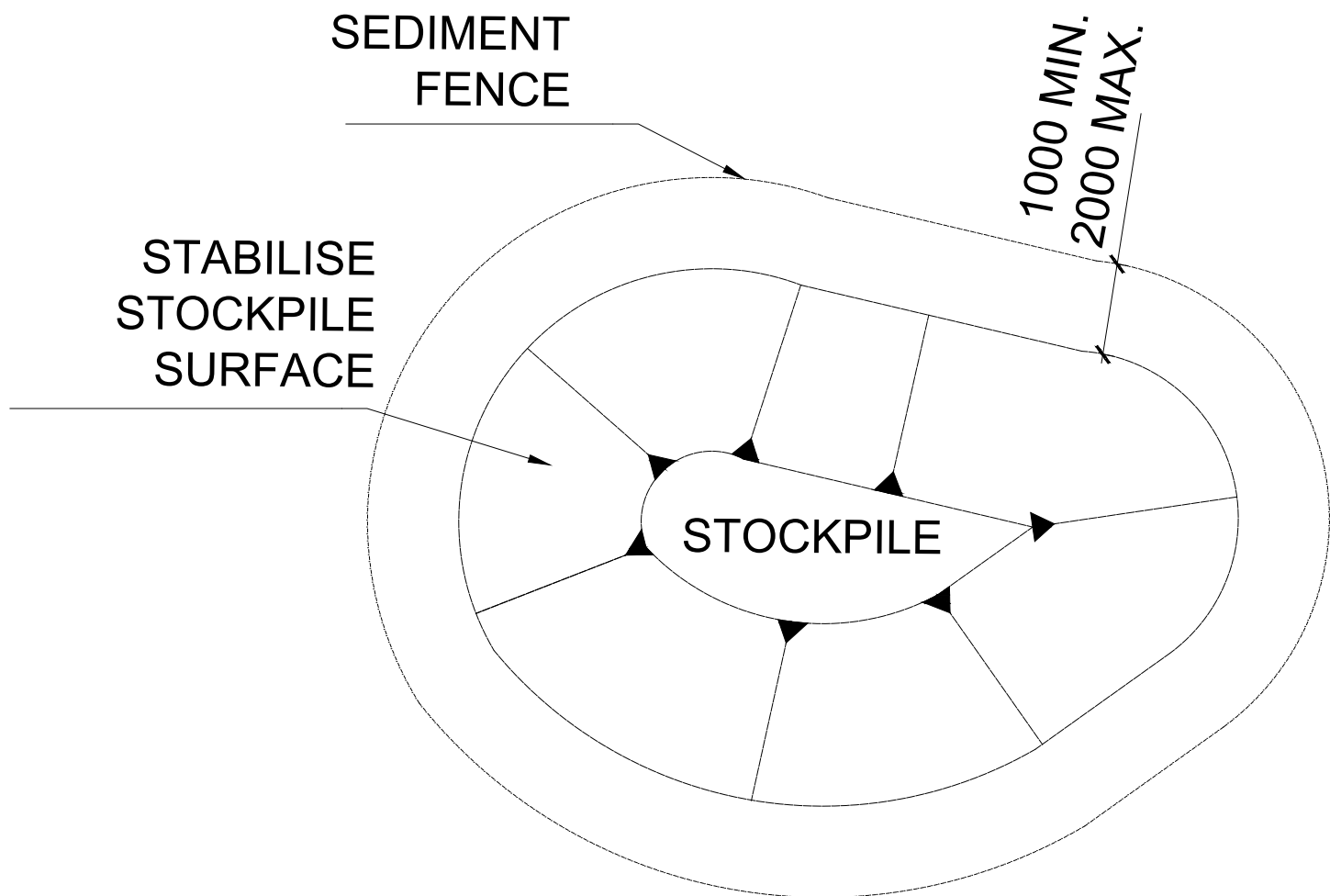
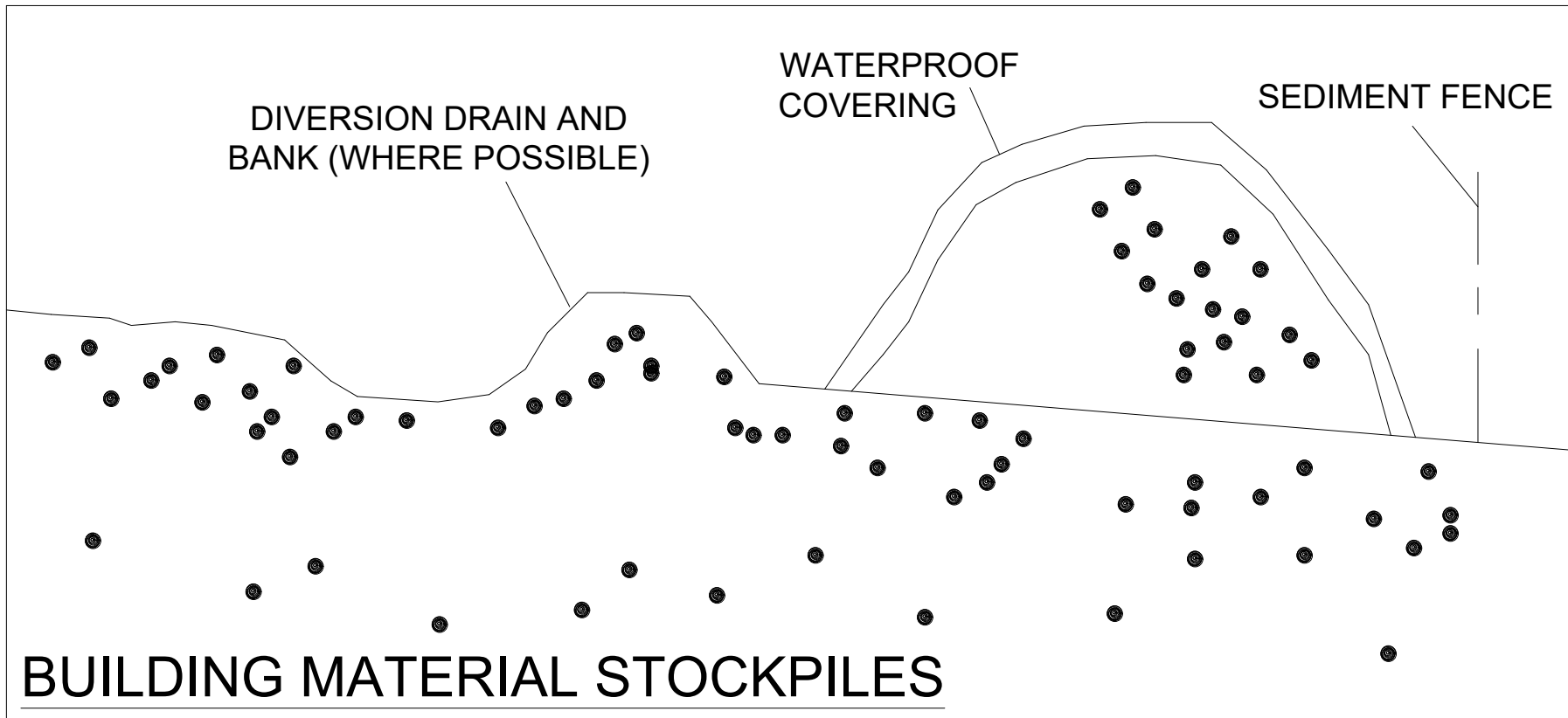
SLOPE V:H	MAX. SLOPE LENGTH (m)
1:2	15
1:3	25
1:4	40
1:5	50
FLATTER THAN 1:5	60



SANDBAG KERB INLET SEDIMENT TRAP



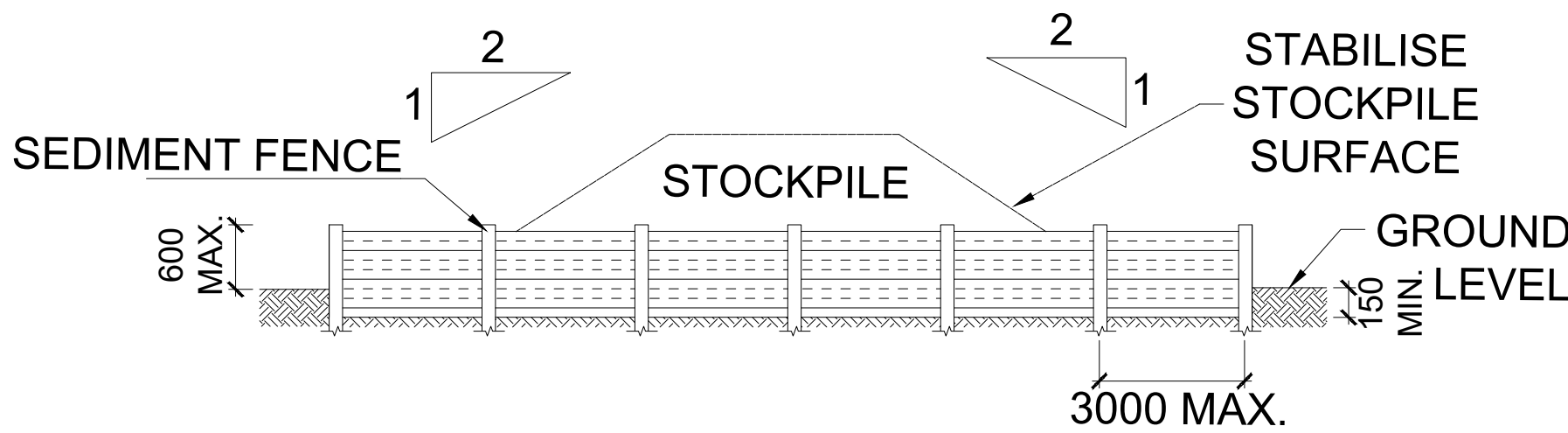
TEMPORARY SITE CONTROL FOR ENTRY / EXIT AREAS



STOCKPILE PROTECTION PLAN

TOP VIEW (TYPICAL)

NOT TO SCALE



STOCKPILE PROTECTION PLAN

SIDE VIEW (TYPICAL)

EROSION CONTROL MEASURES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES, (INCLUDING RE-VEGETATION AND STORAGE OF SOIL AND TOPSOIL), SHALL BE IMPLEMENTED TO THE DEPARTMENT OF CONSERVATION OF NEW SOUTH WALES STANDARDS.
2. TOPSOIL FROM ALL AREAS TO BE DISTURBED, SHALL BE STOCK PILED AND LATER RESPREAD TO AID VEGETATION.
3. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
4. SEDIMENT TRAPS SHALL BE CONSTRUCTED AROUND PITS.
5. DISTURBANCE TO VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS, AND DRAINAGE LINES. AREAS OTHER THAN SPECIFIED SHALL BE DISTURBED ONLY WITH PRIOR APPROVAL FROM THE COUNCIL ENGINEER.
6. ALL DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS ARE COMPLETED.
7. ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE STRUCTURES ARE A MAXIMUM OF 60% FULL OF SOLID MATERIALS, INCLUDING DURING THE MAINTENANCE PERIOD.
8. A STRIP OF TURF BEHIND AND FOR THE TOTAL LENGTH OF ALL THE KERBS SHALL BE PROVIDED.

TEMPORARY SITE CONTROL FOR ENTRY/EXIT AREAS

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADS.
2. PERIODIC TOP DRESSING WITH ADDITIONAL AGGREGATE MAY BE REQUIRED TO KEEP THE SITE CONTROL IN A 'USEABLE STATE'.
3. ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO PUBLIC ROADS MUST BE REMOVED IMMEDIATELY AND CHECKED DAILY.
4. REMOVAL AND CLEANING OF PUBLIC ROADS BY BROOMS AND SHOVELS ETC. WASHING DOWN ROADS IS NOT PERMITTED.

NOTES

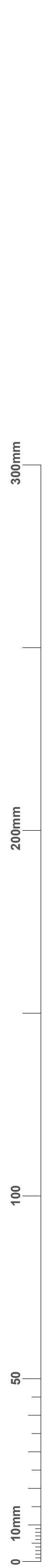
1. WHERE POSSIBLE LAY PIPES TO AVOID EXISTING AND PROPOSED TREE.
2. FINISH GROUND SURFACES AROUND BUILDINGS TO BE GENERALLY GRADED AWAY FROM AND AROUND BUILDING TO AVOID LOW POINTS WHERE WATER CAN ACCUMULATE
3. BUILDER TO CARRY OUT A DIAL BEFORE YOU DIG BEFORE WORKS COMMENCING

SEDIMENT CONTROL DEVICES

1. ALL HAY BALES SHALL BE BOUND WITH WIRE. HAY BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALES SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 600mm INTO THE GROUND AND LOCATED ON THE BALE CENTERLINE.
2. FILTER FENCE SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 3m CENTERS MAXIMUM. FABRIC SHALL BE BURIED INTO THE GROUND 200mm ALONG ITS LOWER EDGE.
3. IF SILT FENCE IS NOT USED HAY BALES CAN BE USED FOR SURFACE INLET PIT PROTECTION.

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1	FOR SSDA SUBMISSION	HR	17.02.26						Project No.	Scale	
									S10803		at A1. N.T.S
									Title	Drawing No.	Revision
									EROSION & SEDIMENT CONTROL DETAILS	C101	1
									Issued By	Checked By	Date
									HR	HR	17.02.26



PRE DEVELOPMENT PAVED AREA
AS PER SURVEY PLAN

SITE AREA	1341.97 m² (AS PER CAD)
IMPERVIOUS AREA	718.50 m² (53.54%)
PERVIOUS AREA	623.47 m² (46.46%)

ENGINEER'S COMMENTS (SITE OBSERVATION)

AS PER THE ENGINEER'S SITE INSPECTION, THE PROPERTY LIES BETWEEN TWO ROADS; MUSTON STREET AND REDAN LANE. IT IS OBSERVED THAT THE SITE SUPPORTS GRAVITY DRAINAGE VIA TOPOGRAPHIC FALL FROM MUSTON STREET IN THE WEST TOWARDS THE COUNCIL DRAINAGE ASSET FOUND ON REDAN LANE IN THE EAST. UPON INVESTIGATION IT WAS OBSERVED THAT THERE IS NO EXISTING EASEMENT ON THE SITE SURVEY. AREA ANALYSIS HAS BEEN UNDERTAKEN WITH RESPECT TO THE SURVEY AND ARCHITECT PROPOSED DEVELOPMENT.

DRAINAGE SCENARIO (RAINWATER REUSE)

A 1000L RAINWATER TANK IS REQUIRED TO COMPLY WITH BASIX. THE RAINWATER TANK HAS BEEN PROPOSED WITHIN THE ON-SITE DETENTION TANK TO ALLOW FOR OVERFLOW DISCHARGE INTO THE STORMWATER NETWORK.

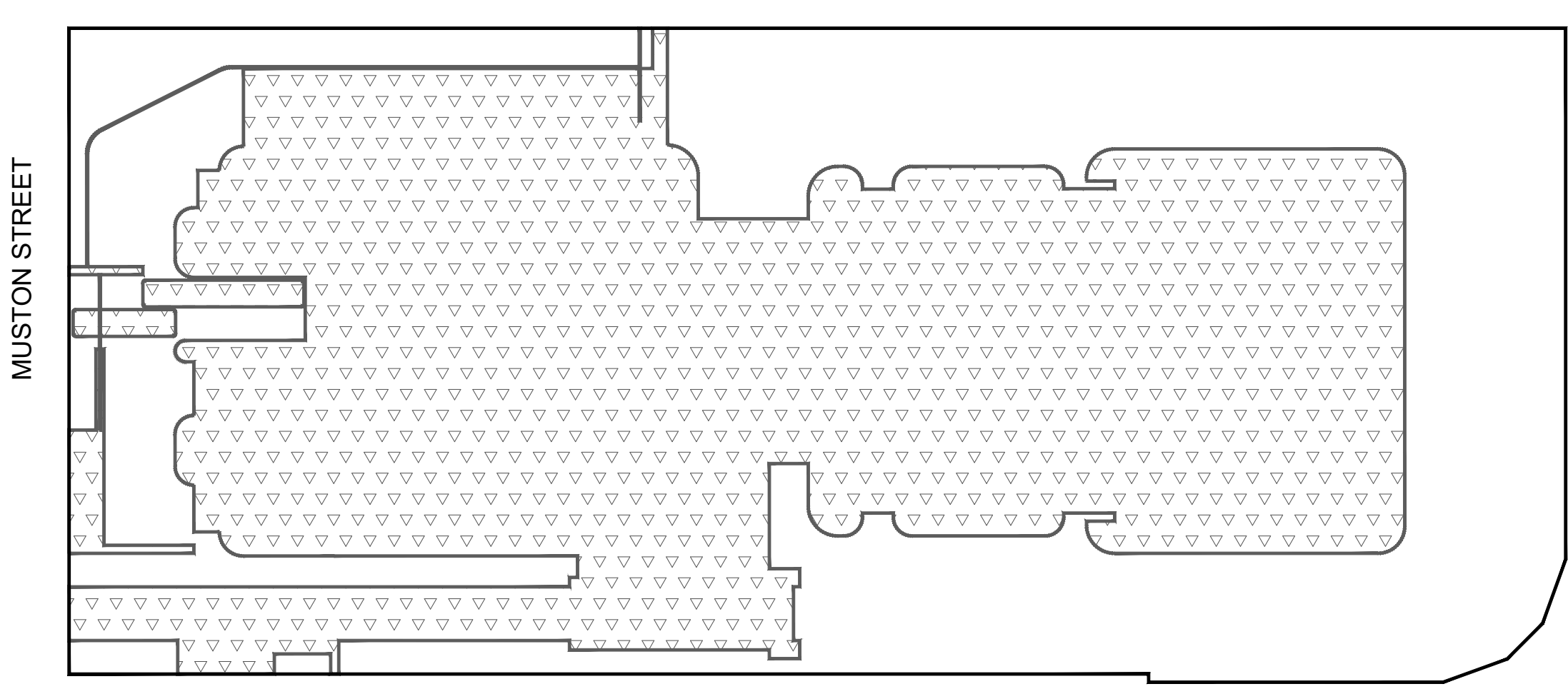
DRAINAGE SCENARIO (PRE DEVELOPMENT)

AS ALL OF THE EXISTING STRUCTURES ON SITE ARE PROPOSED TO BE DEMOLISHED, ALL OF THE EXISTING DRAINAGE NETWORK ALSO NEEDS TO BE REMOVED AND REPLACED WITH A NEW DRAINAGE NETWORK AS PROPOSED IN THESE DRAWINGS. THE OLD DRAINAGE SYSTEM SHALL BE DISCONNECTED, REMOVED AND PROPERLY DISPOSED OF.

DRAINAGE SCENARIO (PROPOSED DEVELOPMENT)

A NEW IN-GROUND STORMWATER DRAINAGE NETWORK IS PROPOSED IN THESE PROVIDED PLANS. THIS NETWORK CONSISTS OF PITS AND PIPES DRAINING VIA GRAVITY TO TWO ON-SITE DETENTION (OSD) TANKS PRIOR TO DISCHARGE VIA GRAVITY TO THE COUNCIL KERB INLET PIT ON REDAN LANE. ANY STORMWATER ENTERING THE BASEMENT VIA THE ENTRANCE RAMP IS DESIGNED TO BE COLLECTED AND DRAINED TO A STORMWATER PIT ON THE LOWEST BASEMENT LEVEL, WHICH IS TO THEN BE PUMPED TO THE OSD SYSTEM.

DRAINAGE COMPONENTS ON THESE DRAWINGS ARE DOCUMENTED TENTATIVELY FOR THE STAKEHOLDERS REPRESENTING THE COUNCIL FOR ASSESSMENT. THE BUILDING HYDRAULIC SERVICES ENGINEER WILL DESIGN AN ADEQUATE ROOF AND BALCONY DRAINAGE SYSTEM OF RAINWATER OUTLETS, GUTTERS AND DOWNPIPES, TO CONNECT TO THE RAINWATER / OSD TANK, AT THE CONSTRUCTION STAGE OF DOCUMENTATION.



POST DEVELOPMENT PAVED AREA
AS PER ARCHITECT PLAN

SITE AREA	1341.97 m² (AS PER CAD)
IMPERVIOUS AREA	779.78 m² (58.10%)
PERVIOUS AREA	562.19 m² (41.90%)

CATCHMENT ANALYSIS

AS PER THE CATCHMENT ANALYSIS OF THE PRE AND POST DEVELOPMENT AREAS, IT IS EVIDENT THAT THERE IS A NET INCREASE OF 0.46% (61.28 sq.m) IN THE IMPERVIOUS AREA. AS PER THE COUNCIL GUIDELINES, THE STORMWATER MANAGEMENT PLAN HAS THUS BEEN DEVELOPED WITH AN ON-SITE DETENTION SYSTEM. STORMWATER FROM THE SITE IS BEING DISCHARGED TO THE STORMWATER KERB INLET PIT ON REDAN LANE.

ON SITE DETENTION SUMMARY

AS PER MOSMAN COUNCIL'S *POLICY FOR STORMWATER MANAGEMENT IN MOSMAN (2024)*, AN OSD IS REQUIRED FOR THE SUBJECT SITE, WITH SITE STORAGE REQUIREMENT (SSR) TO BE CALCULATED USING A FULL HYDROGRAPHIC PRODUCING COMPUTER MODEL THAT USES AUSTRALIAN RAINFALL AND RUNOFF (1987) TEMPORAL PATTERNS. THEREFORE, DRAINS MODELLING HAS BEEN UNDERTAKEN TO CALCULATE THE SITE STORAGE REQUIREMENT (SSR) AND PERMISSIBLE SITE DISCHARGE (PSD). REFER TO C301 FOR FURTHER DETAILS OF THE DRAINS MODELLING RESULTS.

TO ADEQUATELY CATER THE STORAGE AND PERMISSIBLE DISCHARGE REQUIREMENTS FOR THE SITE, AND TO AVOID ANY STORMWATER BYPASS, A DUAL OSD SETUP HAS BEEN PROPOSED IN THESE PLANS AT THE LOWER GROUND FLOOR (REFER TO C202 FOR THE LAYOUT). STORMWATER DRAINAGE ON LOWER GROUND FLOOR 1 AND ABOVE LEVELS IS PROPOSED TO BE CONVEYED TO OSD A, WHICH WILL THEN DISCHARGE TO OSD B COLLECTING ANY STORMWATER FROM LOWER GROUND FLOOR 1. DISCHARGE FROM SITE WILL BE FROM OSD B VIA GRAVITY TO THE COUNCIL KERB INLET PIT ON REDAN LANE.

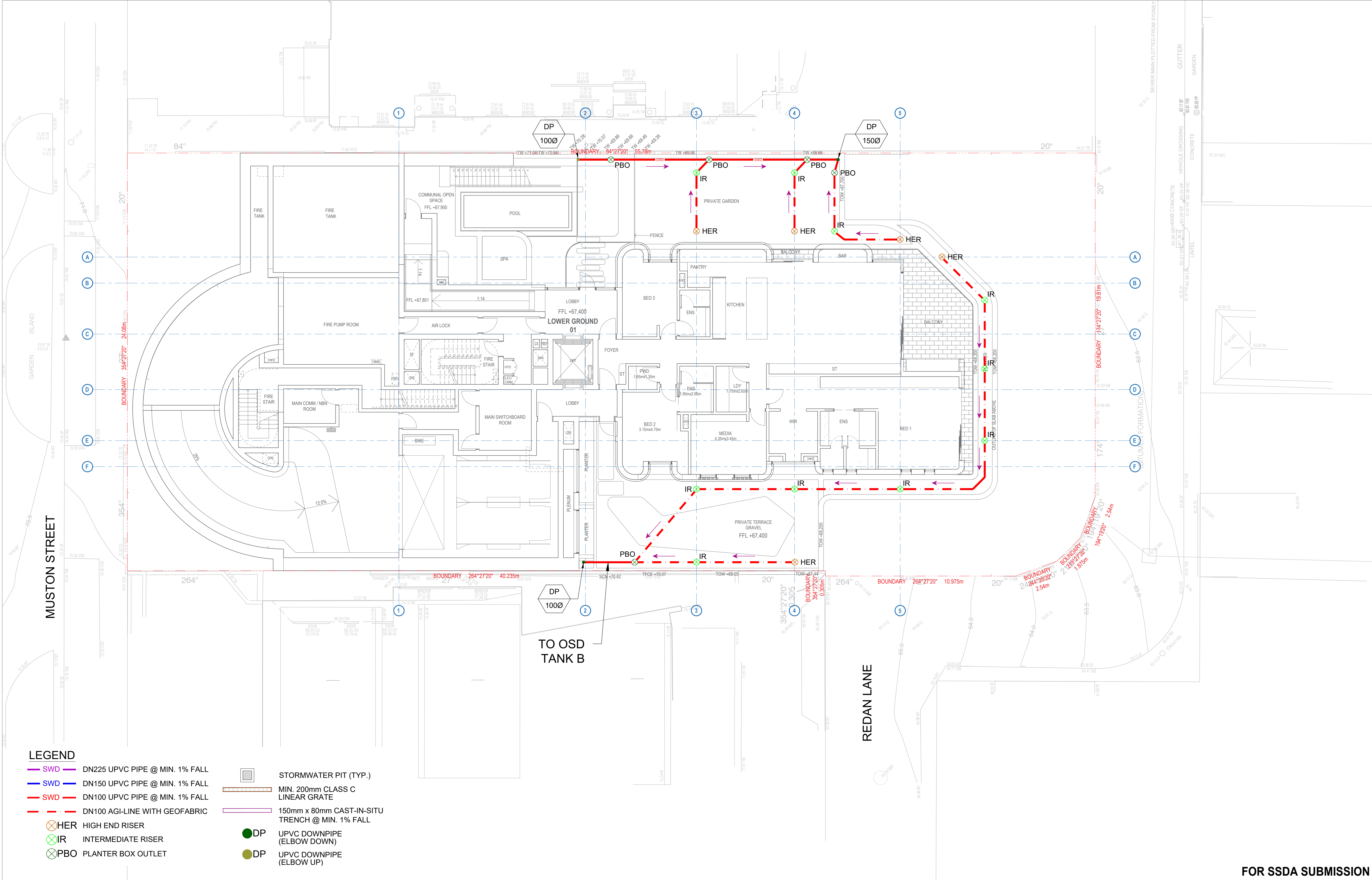
WATER SENSITIVE URBAN DESIGN (WSUD) SUMMARY

MUSIC MODELLING HAS BEEN UNDERTAKEN TO ENSURE POLLUTANT CONTROL AT THE SOURCE AND A TREATMENT TRAIN HAS BEEN DESIGN FOR THE PROPOSED DEVELOPMENT.

THE STORMWATER NETWORK SERVICING THE DEVELOPMENT HAVE BEEN PROPOSED WITH OCEANPROTECT PRODUCTS FOR WATER QUALITY TREATMENT VIA OCEANGUARD FILTER BAGS INSTALLED IN PITS COLLECTING STORMWATER AND ALSO STORMFILTERS WITHIN OSD TANK B FOR FURTHER TREATMENT. REFER TO C300 FOR THE MUSIC MODELLING OUTCOME AND PROPOSED TREATMENT TRAIN.

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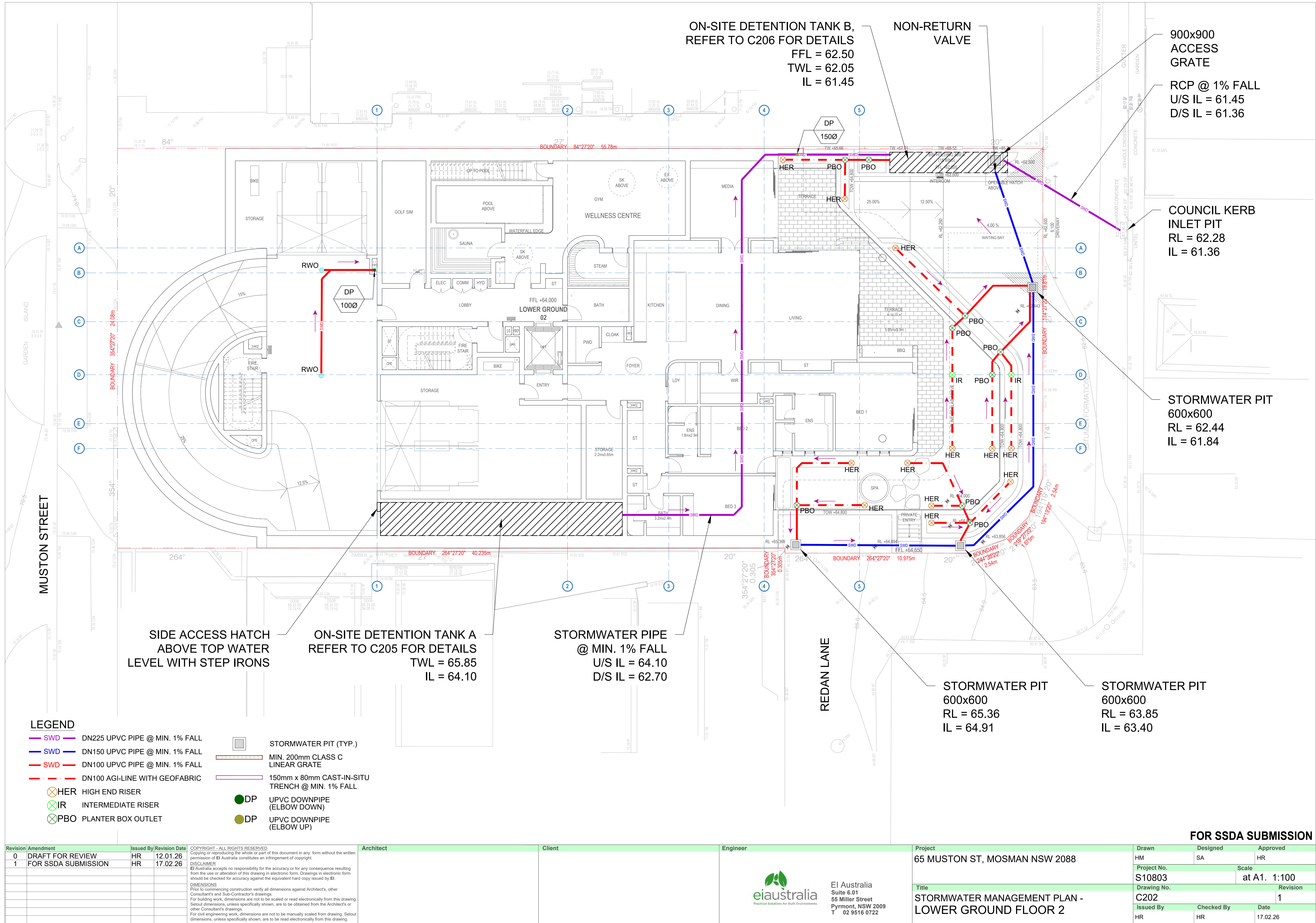


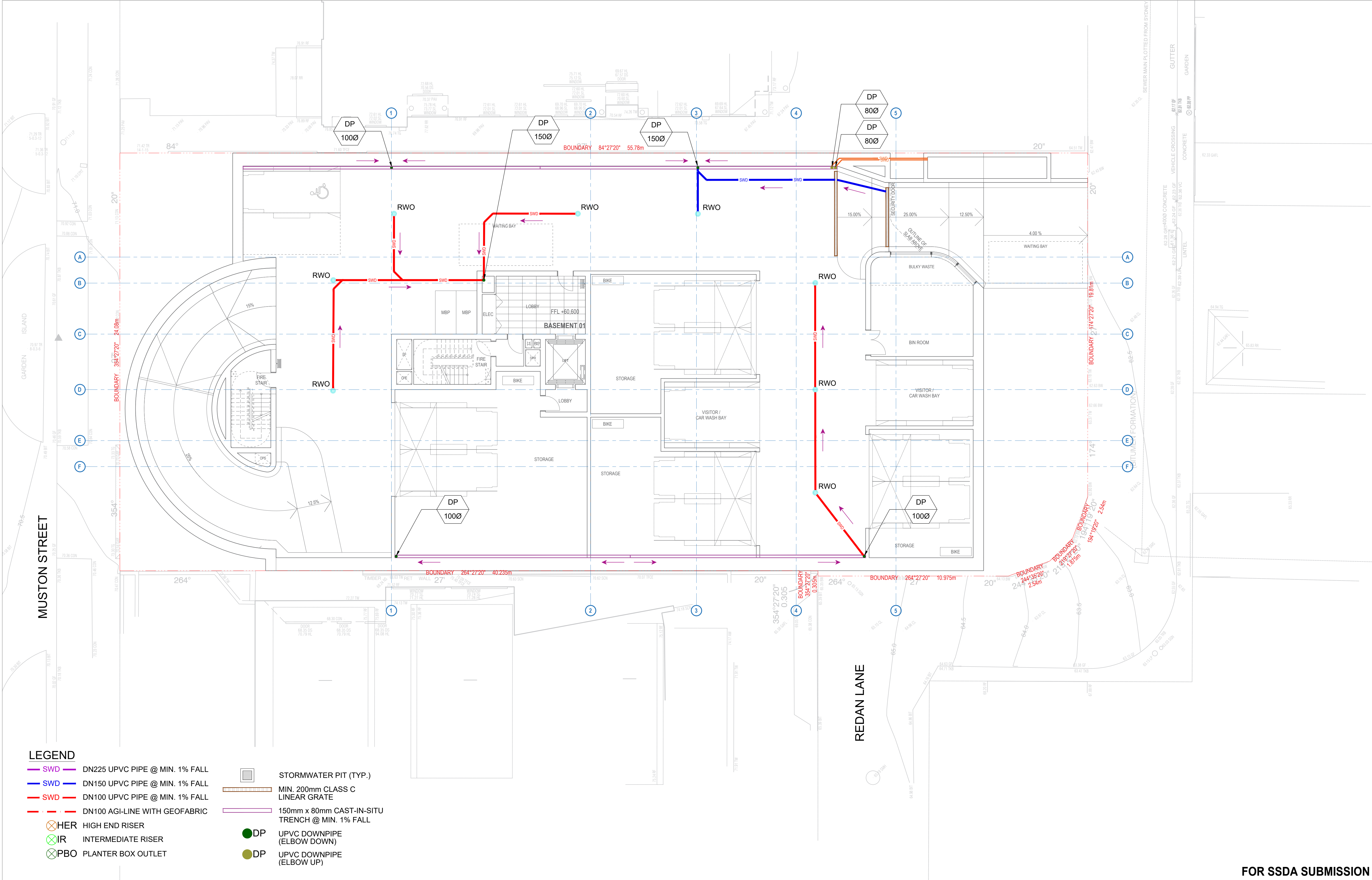
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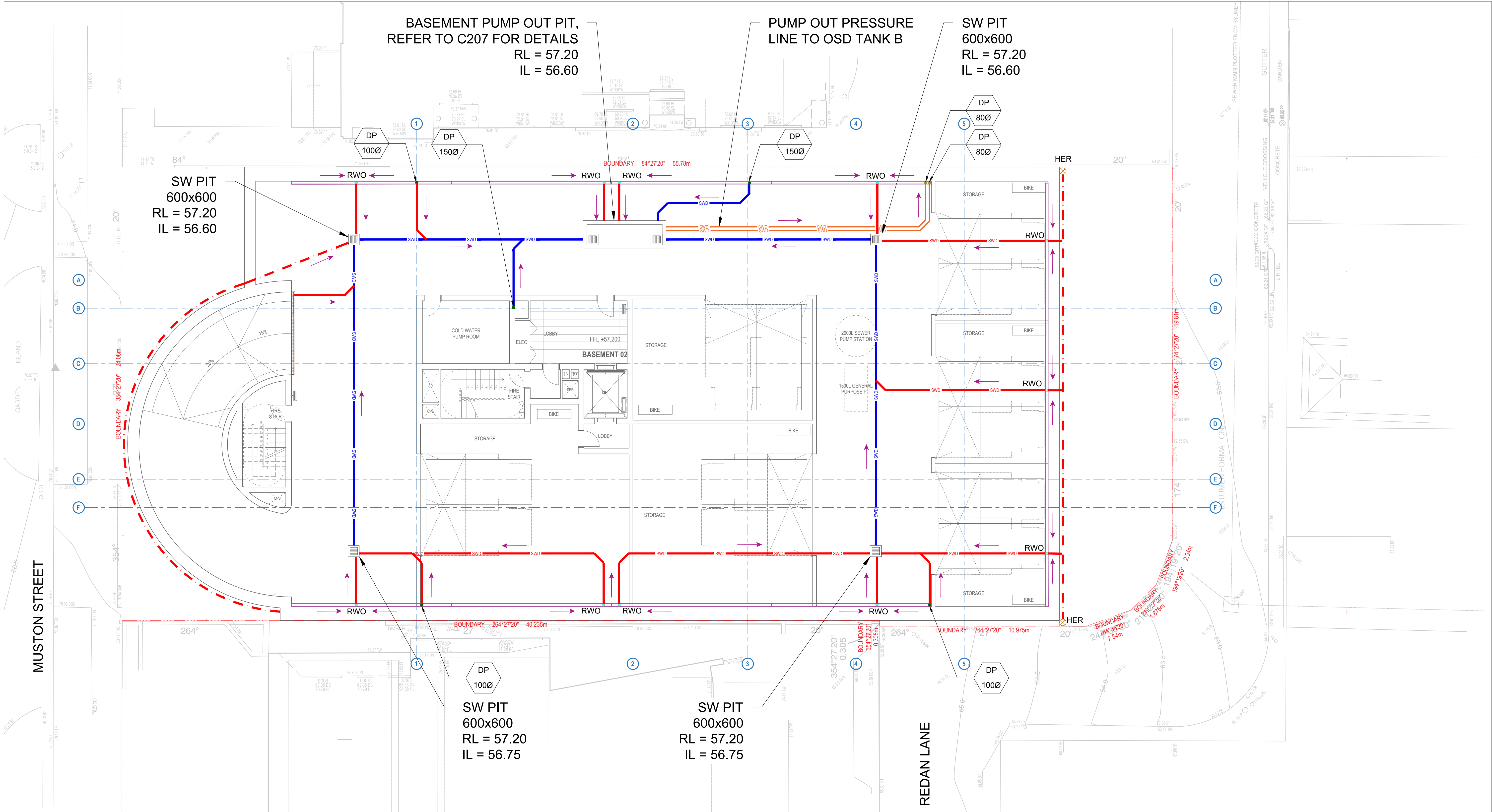
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Title
STORMWATER MANAGEMENT PLAN -
LOWER GROUND FLOOR 1





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LEGEND

- SWD DN225 UPVC PIPE @ MIN. 1% FALL
- SWD DN150 UPVC PIPE @ MIN. 1% FALL
- SWD DN100 UPVC PIPE @ MIN. 1% FALL
- SWD DN100 AGI-LINE WITH GEOFABRIC
- HER HIGH END RISER
- IR INTERMEDIATE RISER
- PBO PLANTER BOX OUTLET
- STORMWATER PIT (TYP.)
- MIN. 200mm CLASS C LINEAR GRATE
- 150mm x 80mm CAST-IN-SITU TRENCH @ MIN. 1% FALL
- DP UPVC DOWNPIPE (ELBOW DOWN)
- DP UPVC DOWNPIPE (ELBOW UP)

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Architect

Client

Engineer



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Project
65 MUSTON ST, MOSMAN NSW 2088

Title
STORMWATER MANAGEMENT PLAN -
BASEMENT 2

Drawn	Designed	Approved
HM	SA	HR
Project No. S10803	Scale at A1. 1:100	Revision 1
Drawing No. C204	Checked By HR	Date 17.02.26

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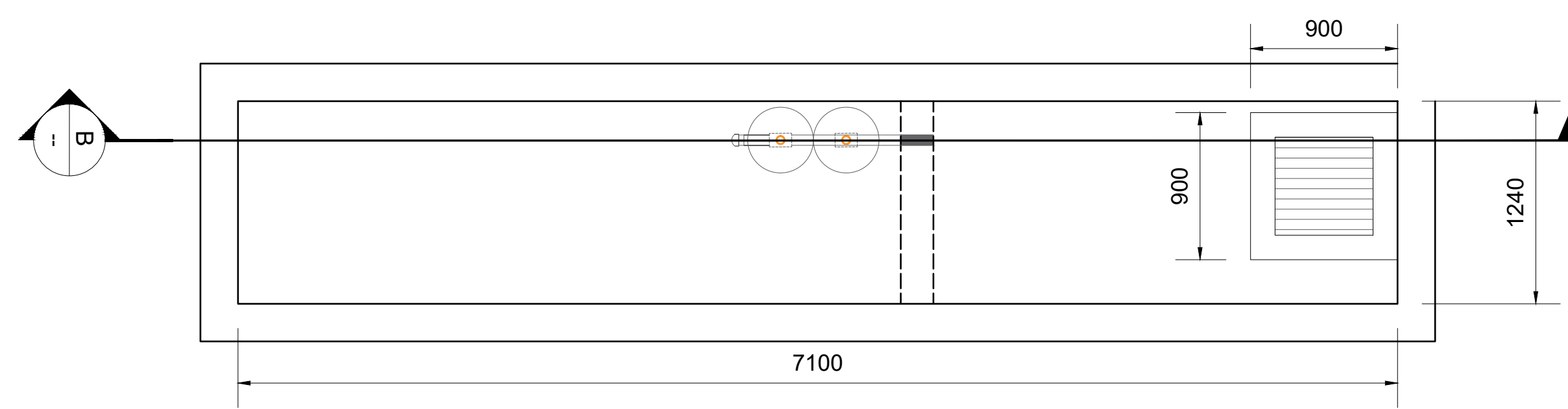
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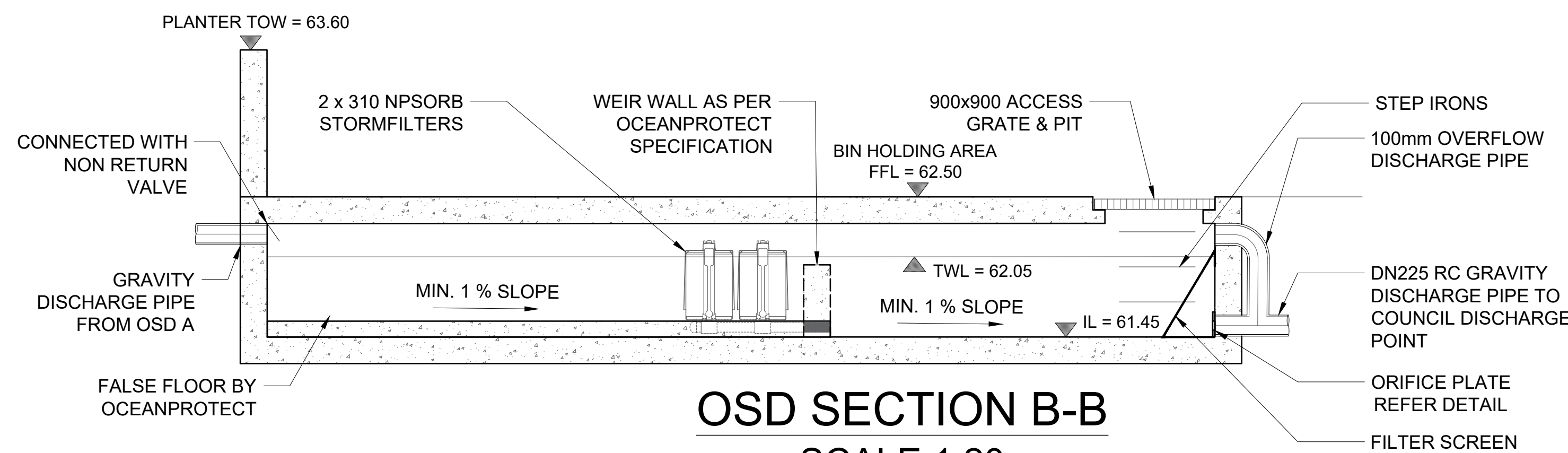
THE REQUIRED WORDING FOR THE PLAQUE AS
PER NORTHERN BEACHES COUNCIL DCP IS:
"THIS IS AN ONSITE DETENTION SYSTEM. IT
MUST NOT BE ALTERED IN ANY WAY WITHOUT
WRITTEN CONSENT FROM NORTHERN BEACHES
COUNCIL. THE OWNER SHALL REGULARLY
CLEAN THE SYSTEM."

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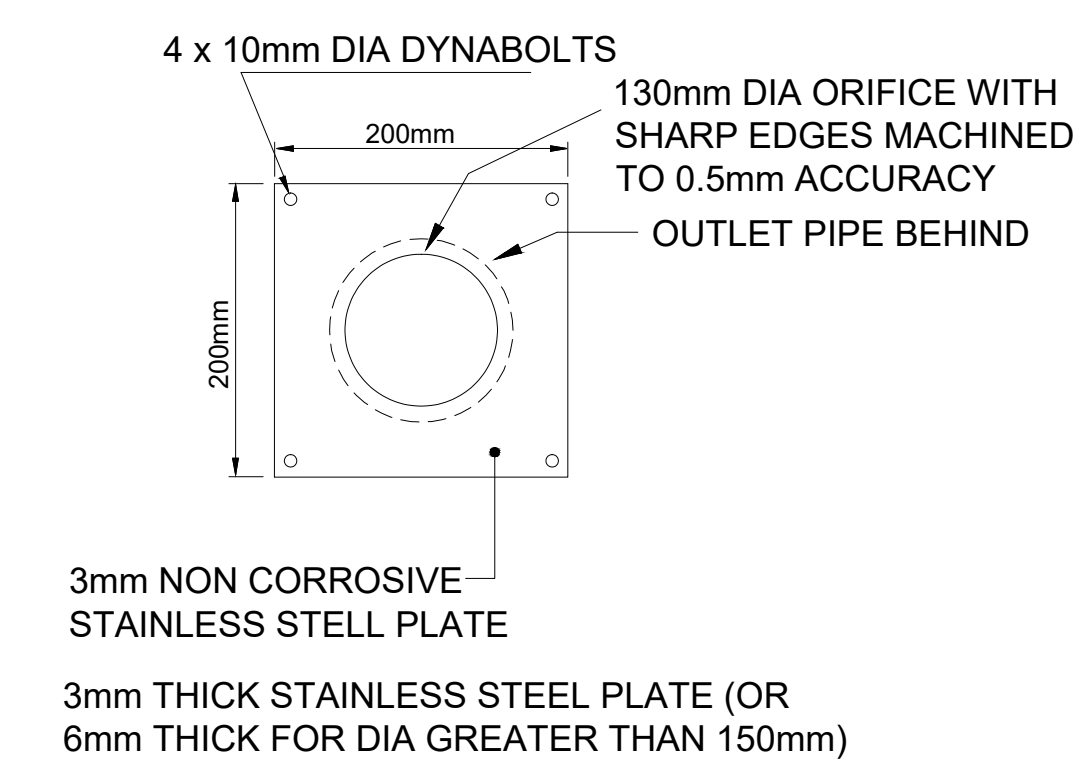
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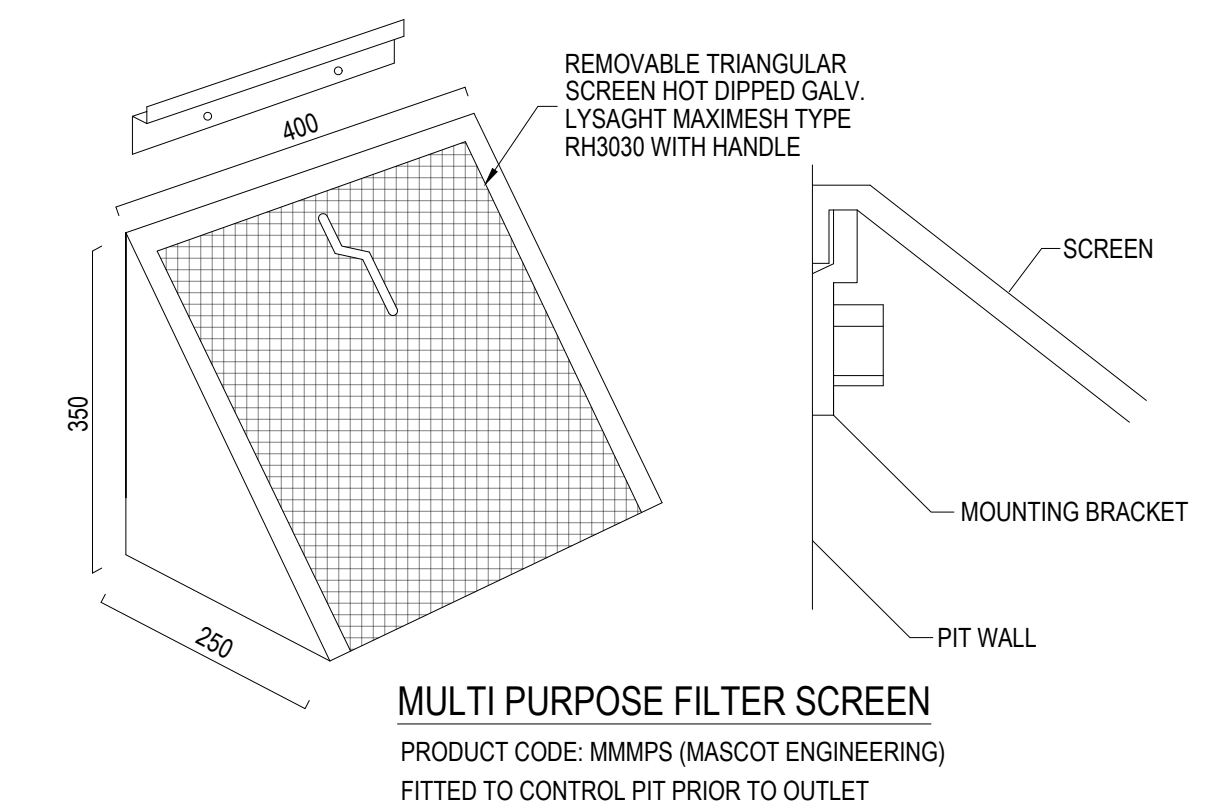
OSD TANK B PLAN
SCALE 1:20



OSD SECTION B-B
SCALE 1:20



ORIFICE PLATE DETAIL B



TYPICAL OSD ALUMINIUM PLAQUE
TO BE PERMANENTLY ATTACHED AND
DISPLAYED PROMINENTLY CLOSE TO THE OSD.
MINIMUM SIZE: 450mm x 300mm

THE REQUIRED WORDING FOR THE PLAQUE AS
PER NORTHERN BEACHES COUNCIL DCP IS:
"THIS IS AN ONSITE DETENTION SYSTEM. IT
MUST NOT BE ALTERED IN ANY WAY WITHOUT
WRITTEN CONSENT FROM NORTHERN BEACHES
COUNCIL. THE OWNER SHALL REGULARLY
CLEAN THE SYSTEM."

NOTE: CONFINED SPACE SIGN TO BE AFFIXED UNDER
EACH ACCESS GRATE AT VISIBLE SPOT

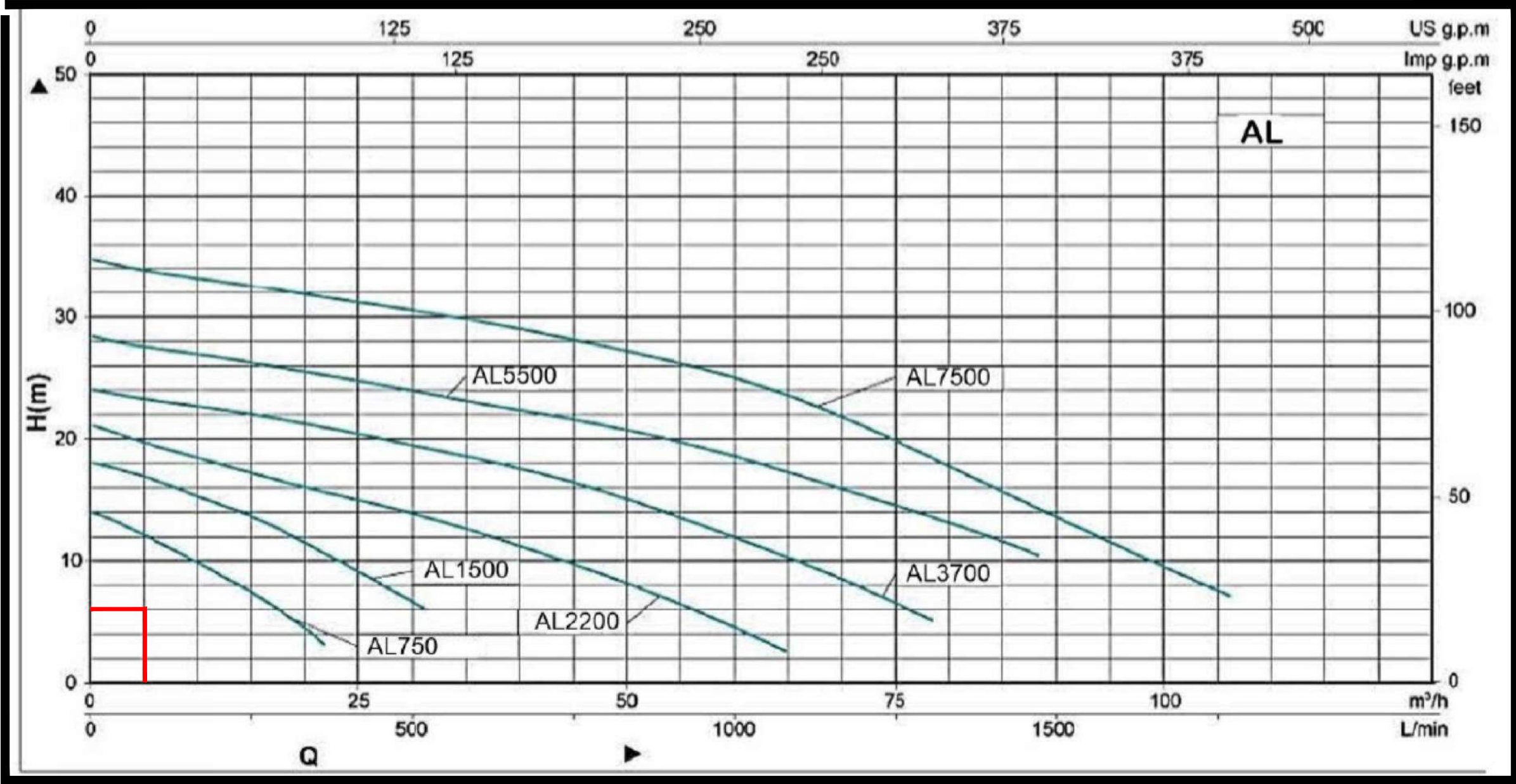
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0	DRAFT FOR REVIEW	HR	12.01.26	COPYRIGHT - ALL RIGHTS RESERVED		EI Australia						65 MUSTON ST, MOSMAN NSW 2088		HM	SA	HR						
1	FOR SSDA SUBMISSION	HR	17.02.26	DISCLAIMER										S10803			at A1. 1:30					
				DIMENSIONS								ON-SITE DETENTION TANK B DETAILS		C206			Revision			1		
														Issued By			Checked By			Date		
														HR			HR			17.02.26		

STANDARD PUMP OUT DESIGN NOTES

- THE PUMP OUT SYSTEM SHALL BE DESIGNED TO BE OPERATED IN THE FOLLOWING MANNER:
- THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATIVELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.
 - A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AN OFF SWITCH FOR THE PUMPS.
 - A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW-LEVEL FLOAT.
 - A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM. IT WILL BE 100mm ABOVE THE INLET PIPE.
 - AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.



PUMP & CONTROL LAYOUT SKEMATIC



HYDRAULIC PERFORMANCE CURVE

PUMP OUT RATE

- RAINFALL INTENSITY (I) = 33.4 mm/h (100 YR ARI FOR 2 HR)
- AREA OF PUMP OUT (A) = 68.0 m²
- COEFFICIENT OF DISCHARGE (C) = 0.95
- Q = CIA / 3600 = 0.60 l/sec (35.96 l/min)

PUMPOUT PIT DIMENSIONS

- WIDTH = 1.10 m
- LENGTH = 4 m
- DEPTH = 1.10 m
- VOLUME = 4.84 m³

PUMPOUT DESIGN SUMMARY

- Q = CIA / 3600 = 0.60 l/sec
- VOLUME REQUIRED = 0.60x60x60 / 1000 = 4.32 m³
- TOTAL HEAD TO BE LIFTED = 5.65 m

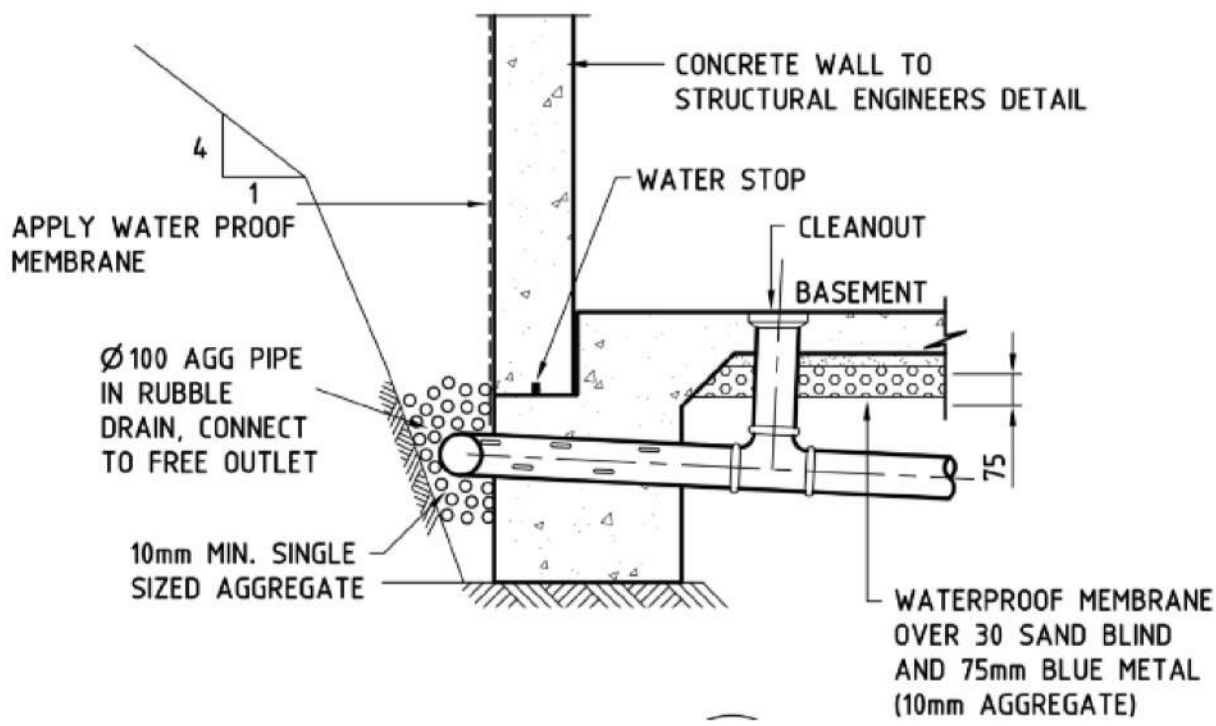
PUMP SELECTION

PROVIDE 2 AUTO STANDARD PUMPS ACCORDING TO PUMP OUT RATE AS SELECTED BELOW OR SIMILAR. TO BE INSTALLED IN ACCORDANCE WITH AS3500.3

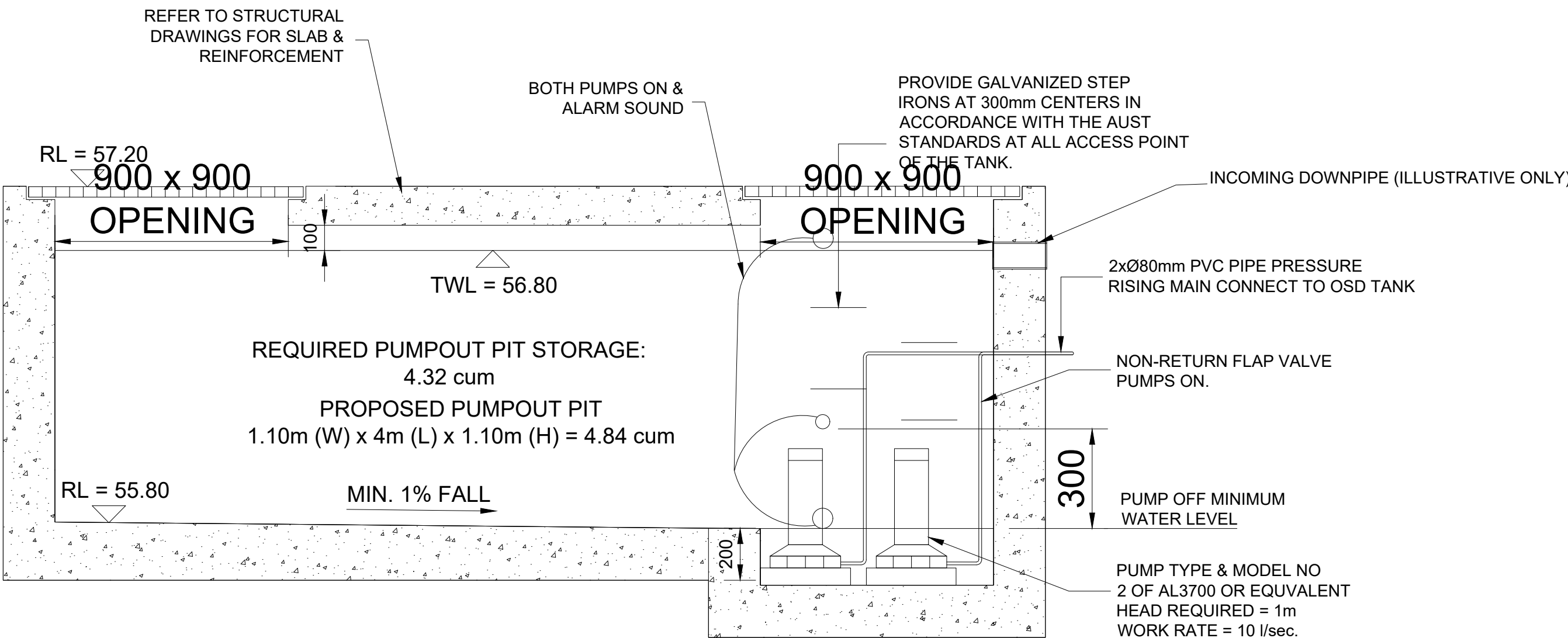
DUTY & STANDBY

Model	Power		Outlet (inch)	Max. Flow (m³/h)	Max head (m)	The max flow particle (mm)	Dim. (mm)	Weight (kg)		20 (Loading Qty) (pcs)
	Three Phase	kW						G.W	N.W	
AL750		0.75	1	2	22	14	525x250x280	31	27	680
AL1500		1.5	2	2	31	18	585x245x300	40	36	570
AL2200		2.2	3	3	65	21	585x260x330	45	40	500
AL3700		3.7	5	3	78	24	370x325x680	71	65	250
AL5500		5.5	7.5	4	90	28.5	400x340x770	85	78	210
AL7500		7.5	10	4	108	30	400x340x770	91	84	190

PUMP CAPACITY



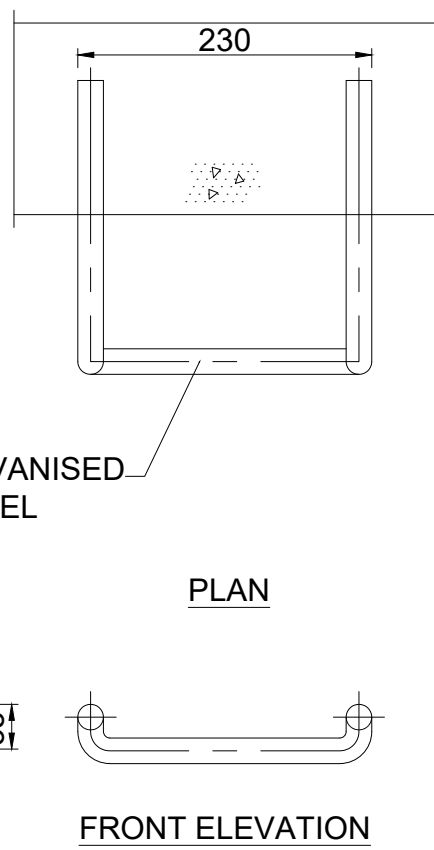
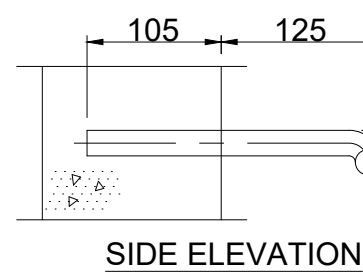
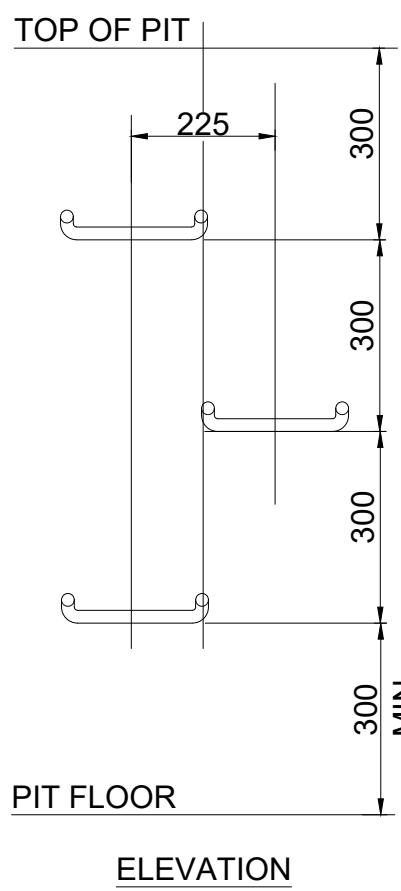
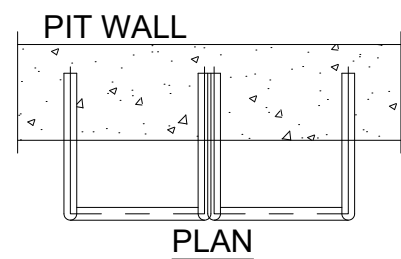
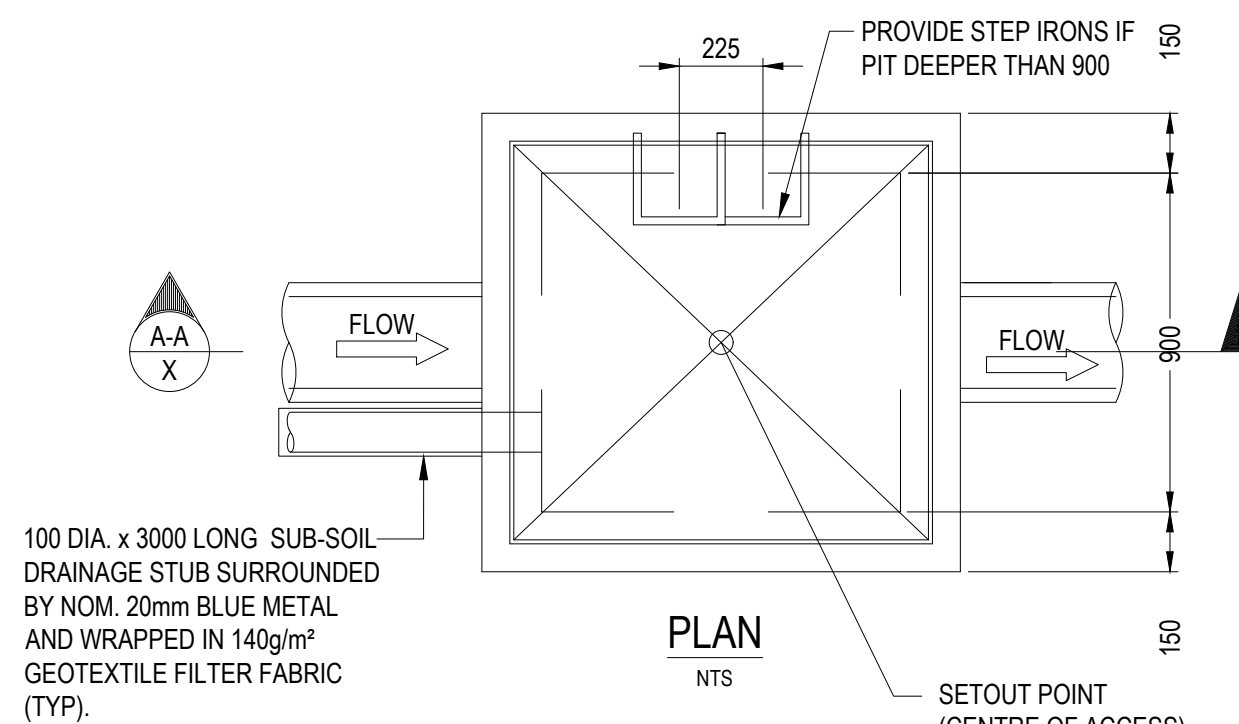
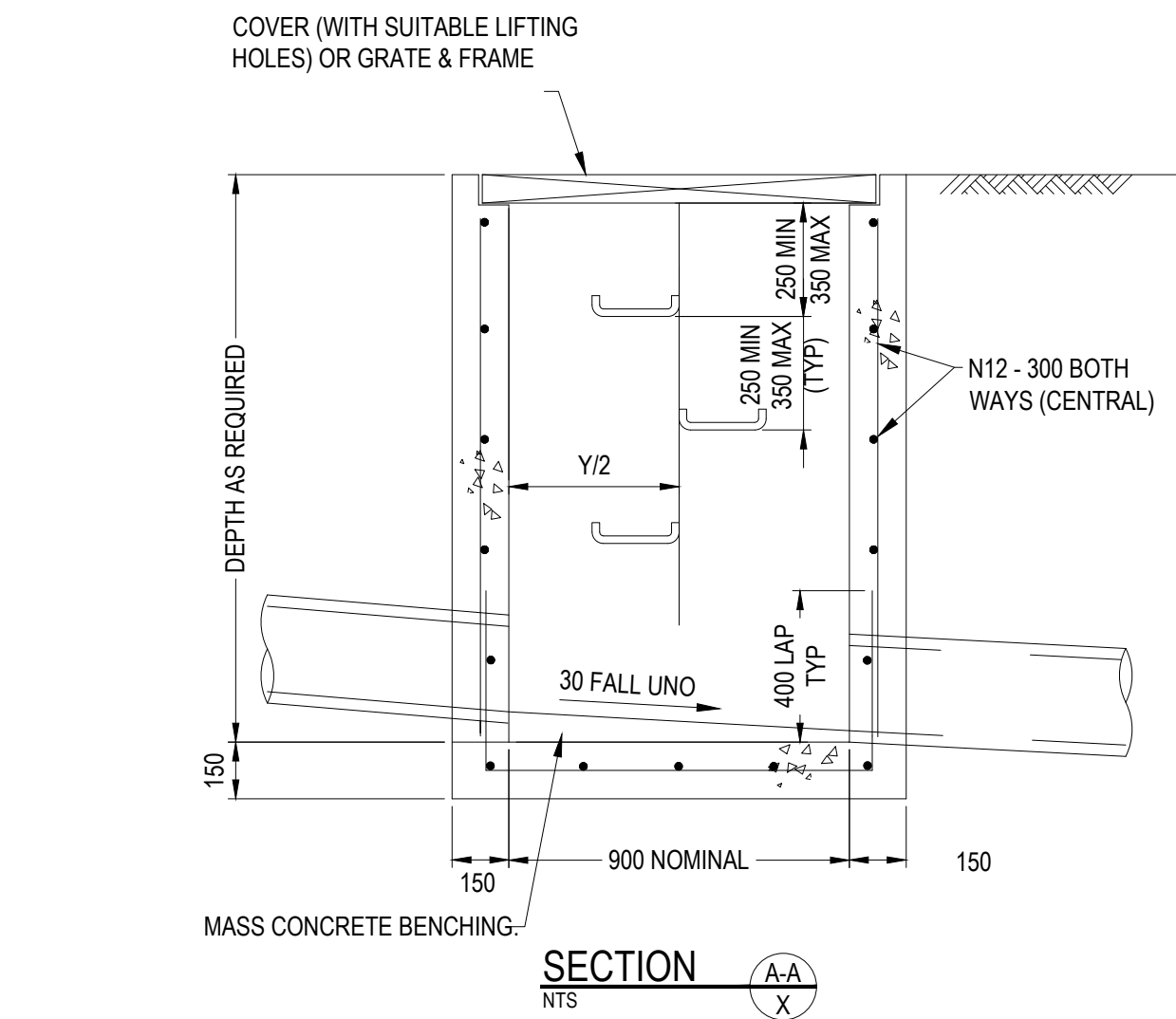
TYP. BASEMENT SECTION



PUMP STORAGE TANK DETAIL

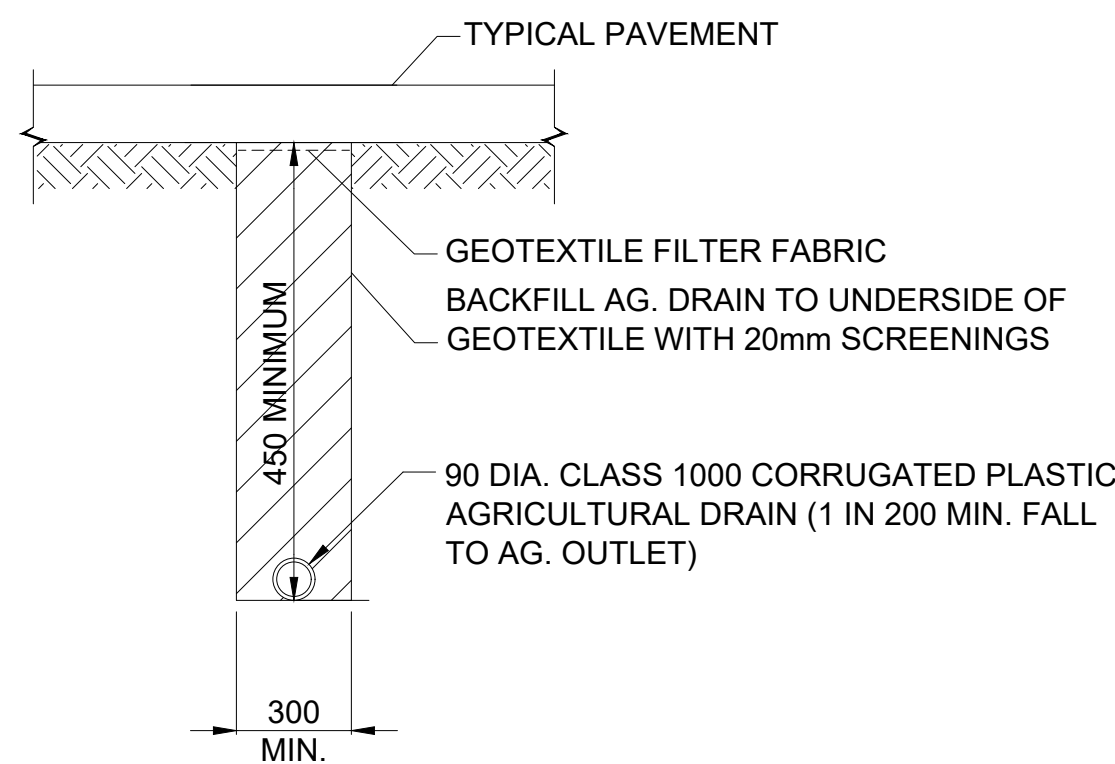
Revision				Architect	Client	Engineer	Project	FOR SSDA SUBMISSION		
Amendment	Issued By	Revision Date						Drawn	Designed	Approved
0	DRAFT FOR REVIEW	HR	12.01.26	COPYRIGHT - ALL RIGHTS RESERVED Copying or reproducing the whole or part of this document in any form without the written permission of EI Australia constitutes an infringement of copyright. DISCLAIMER EI Australia accepts no responsibility for the accuracy or for any consequence resulting from the use or alteration of this drawing in electronic form. Drawings in electronic form should be checked for accuracy against the equivalent hard copy issued by EI. DIMENSIONS Prior to commencing construction verify all dimensions against Architect's, other Consultant's and Sub-Contractor's drawings. For building work, dimensions are not to be scaled or read electronically from this drawing. Setout dimensions, unless specifically shown, are to be obtained from the Architect's or other Consultant's drawings. For civil engineering work, dimensions are not to be manually scaled from drawing. Setout dimensions, unless specifically shown, are to be read electronically from this drawing.	65 MUSTON ST, MOSMAN NSW 2088	 EI Australia Suite 6.01 55 Miller Street Pyrmont, NSW 2009 T 02 9516 0722	BASEMENT PUMP OUT DETAILS	HM	SA	HR
1	FOR SSDA SUBMISSION	HR	17.02.26					Project No. S10803		Scale at A1. N.T.S
								Drawing No. C208		Revision 1
								Issued By HR		Checked By HR
										Date 17.02.26

300mm
200mm
100
50
0 10mm

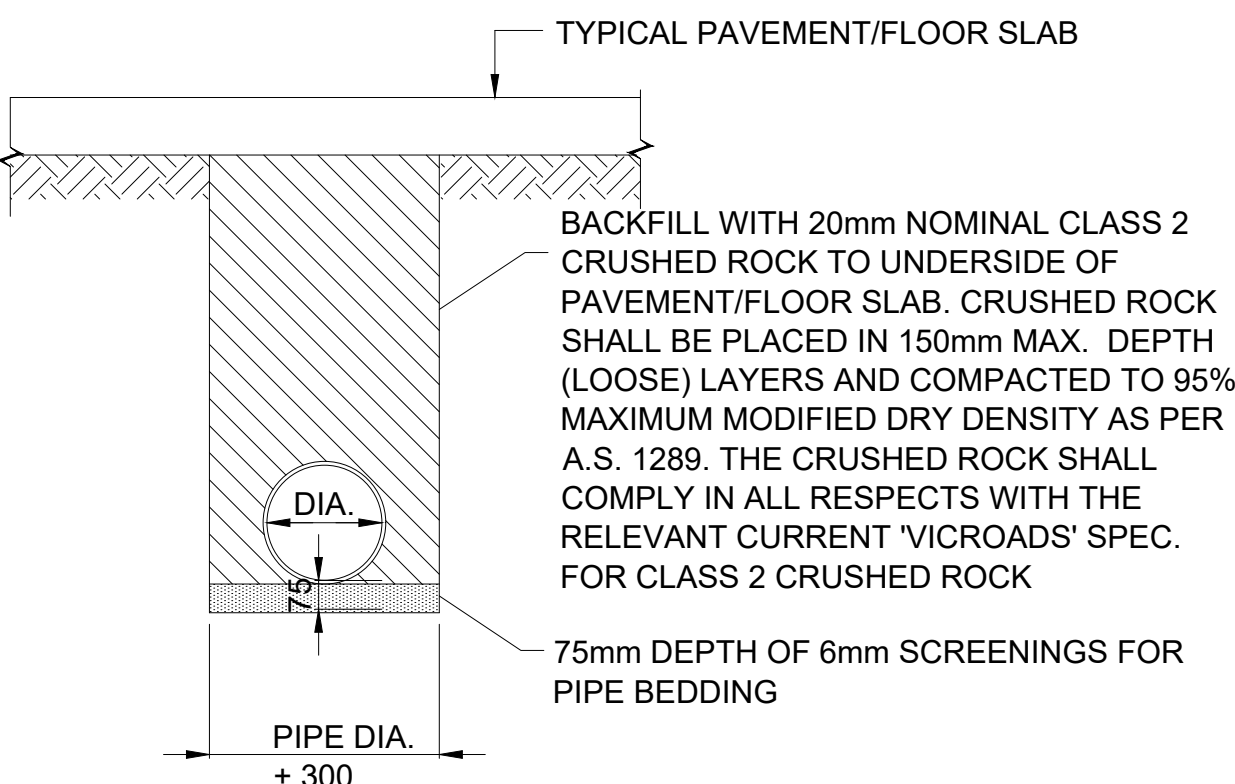


STEP IRON PLACEMENT TO PIT WALL
NTS

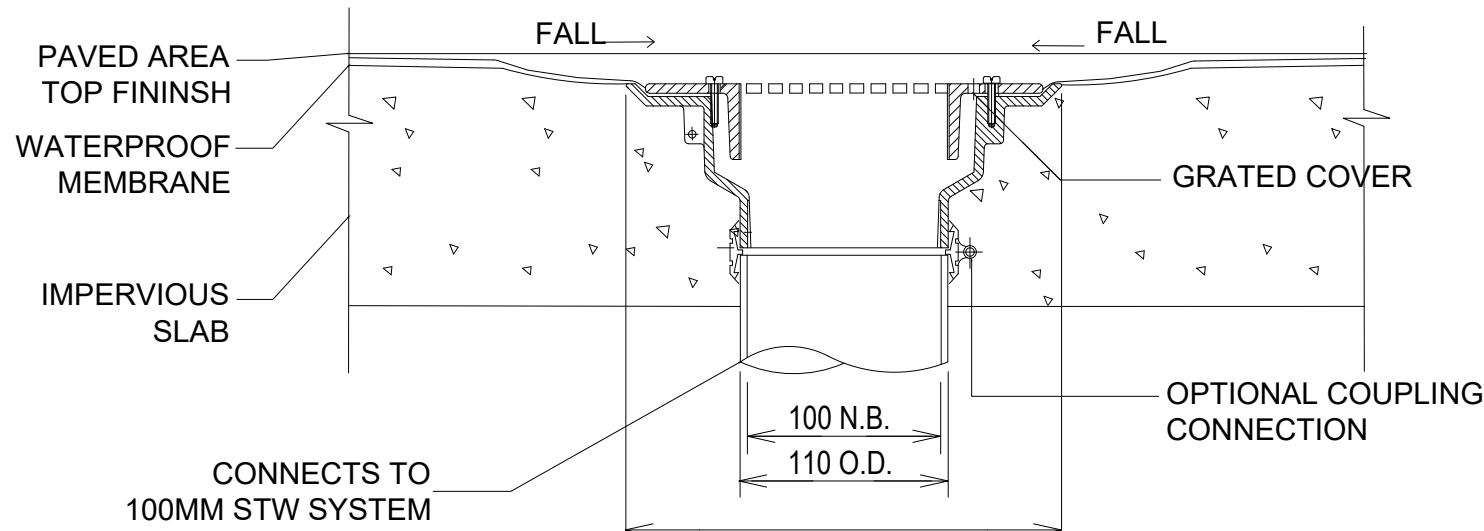
STEP IRON DETAIL
NTS



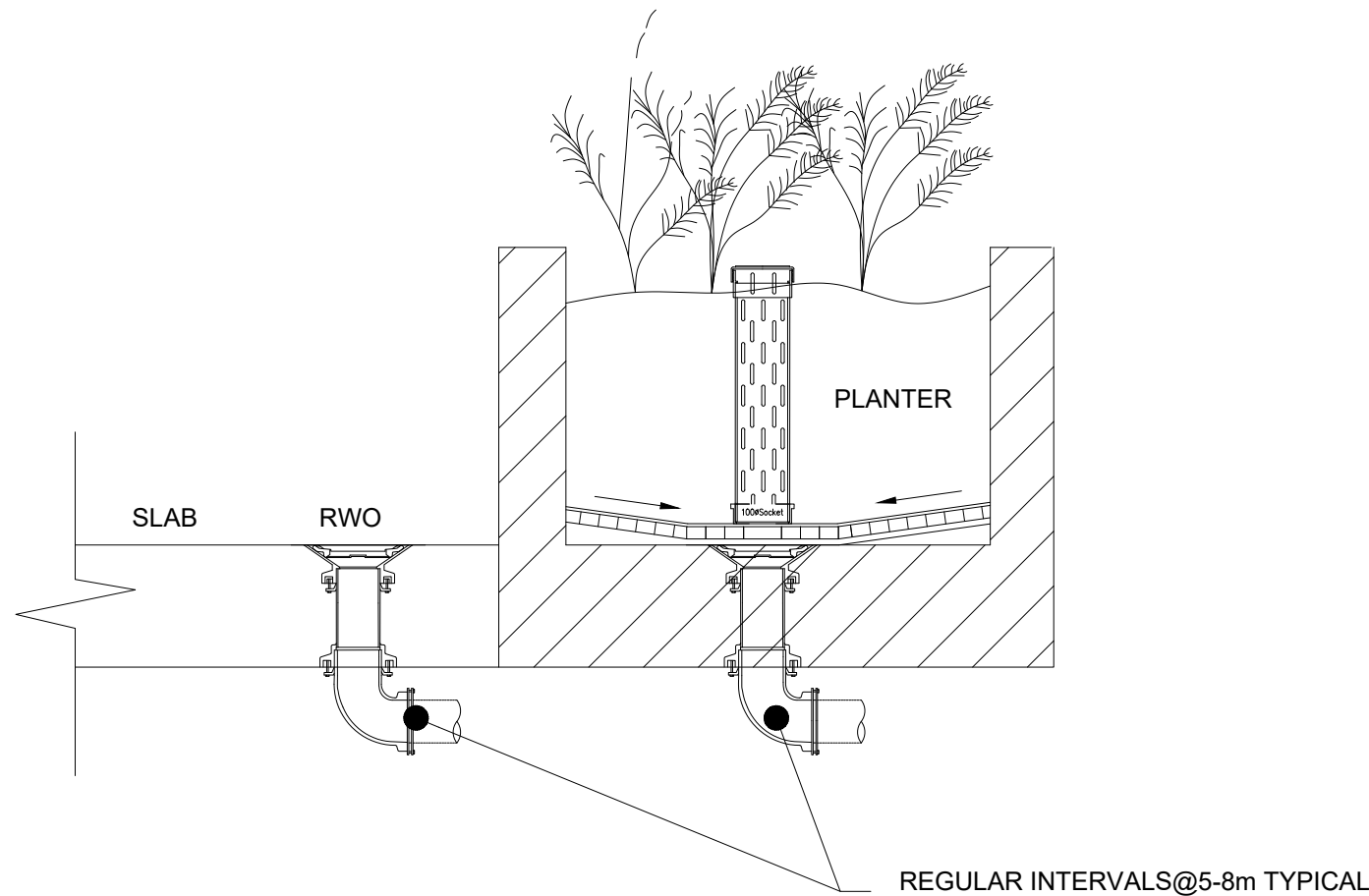
AG. PIPE LAYING DETAILS UNDER PAVED AREAS



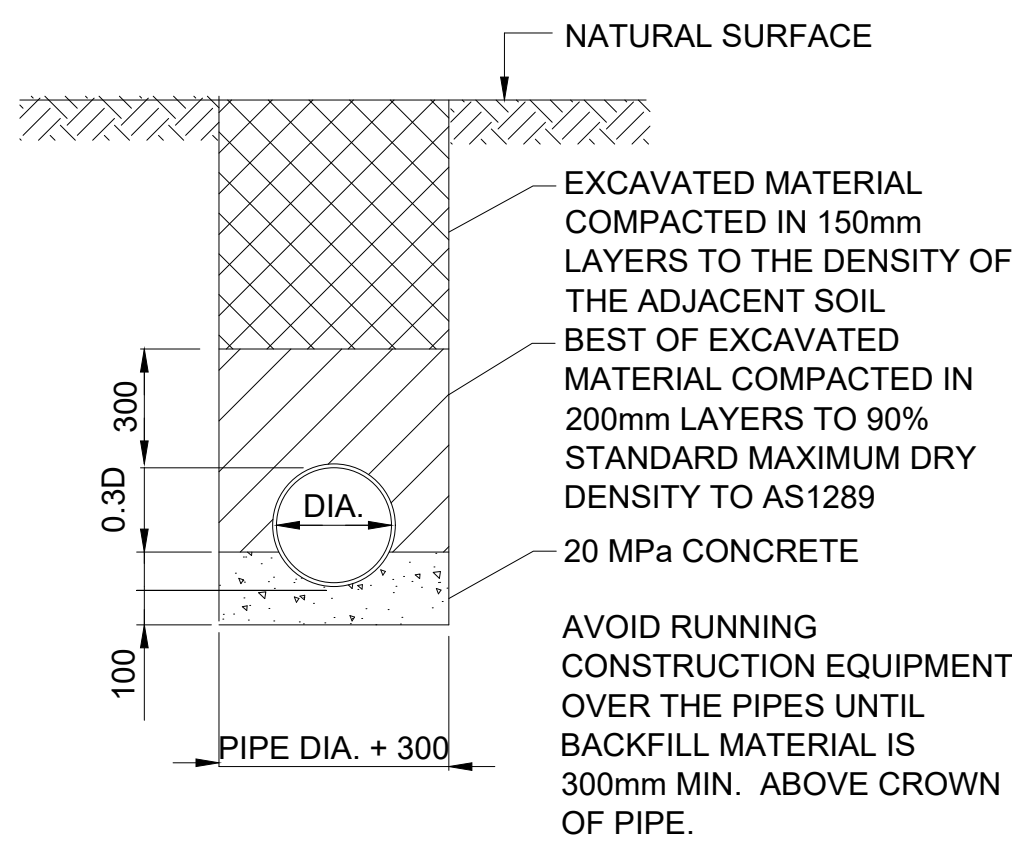
PIPE LAYING DETAILS (RIGID PIPES) UNDER ALL PAVEMENTS/FLOORS



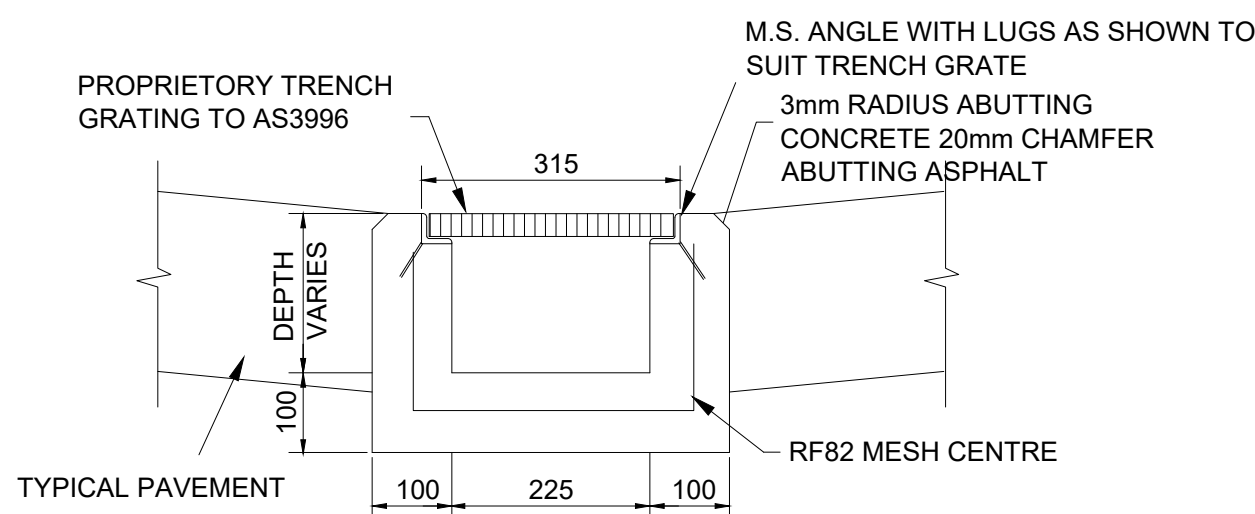
AS PER MANUFACTURER SPECIFICATION SECTION VIEW
RAINWATER OUTLET DETAIL



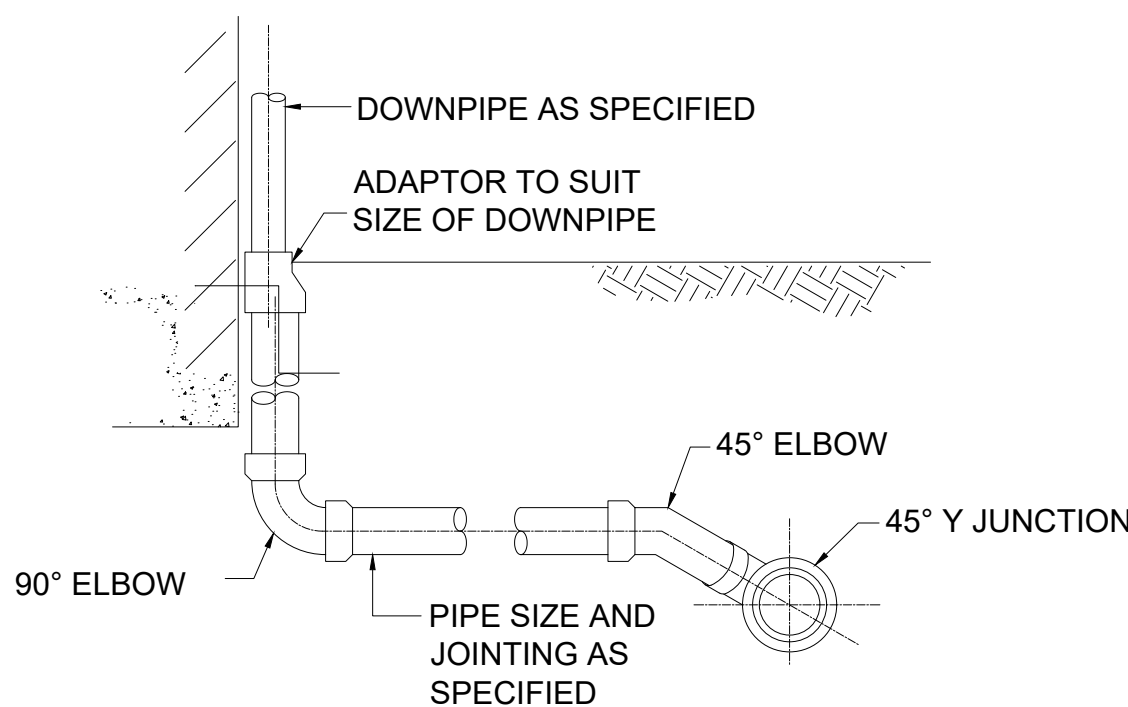
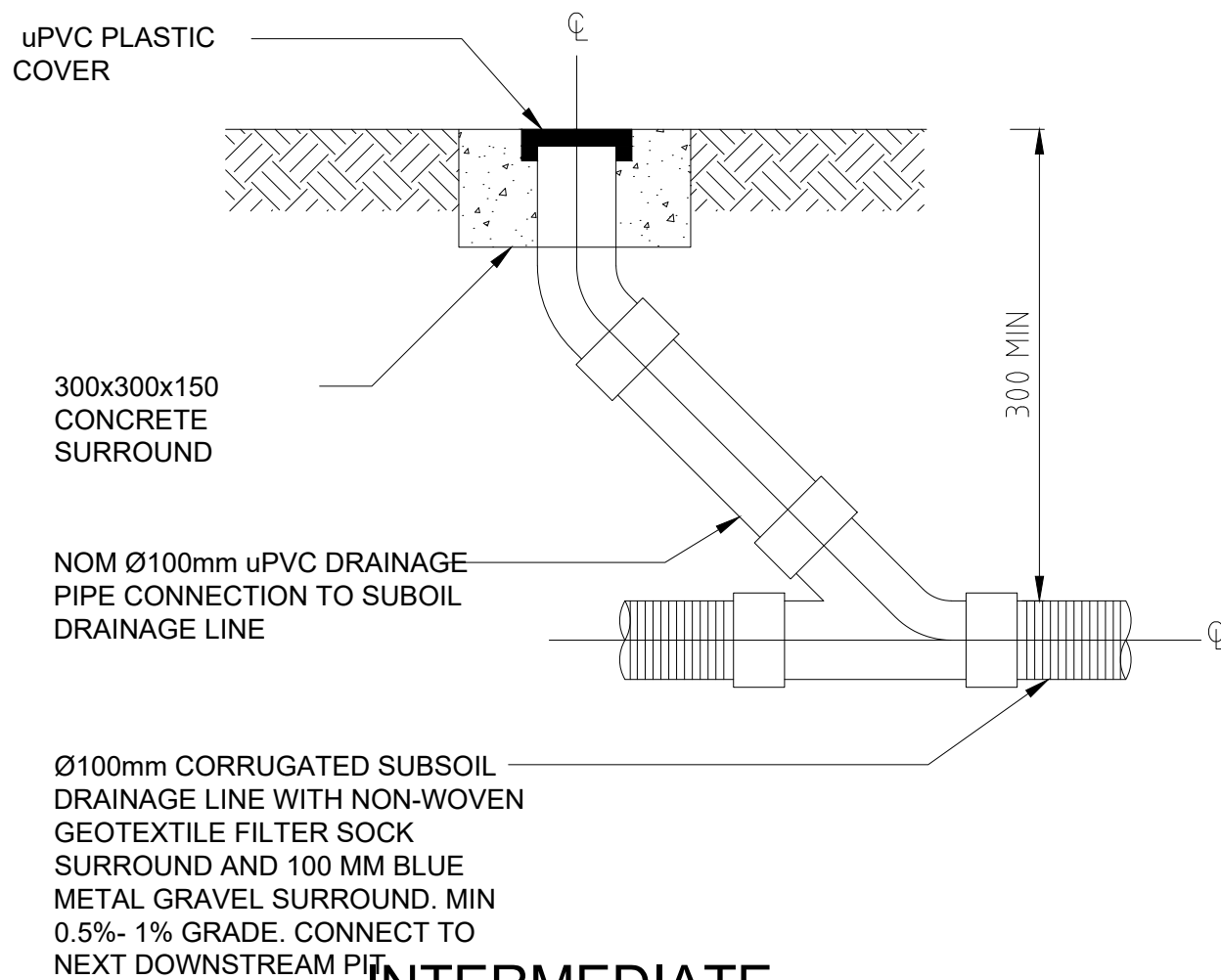
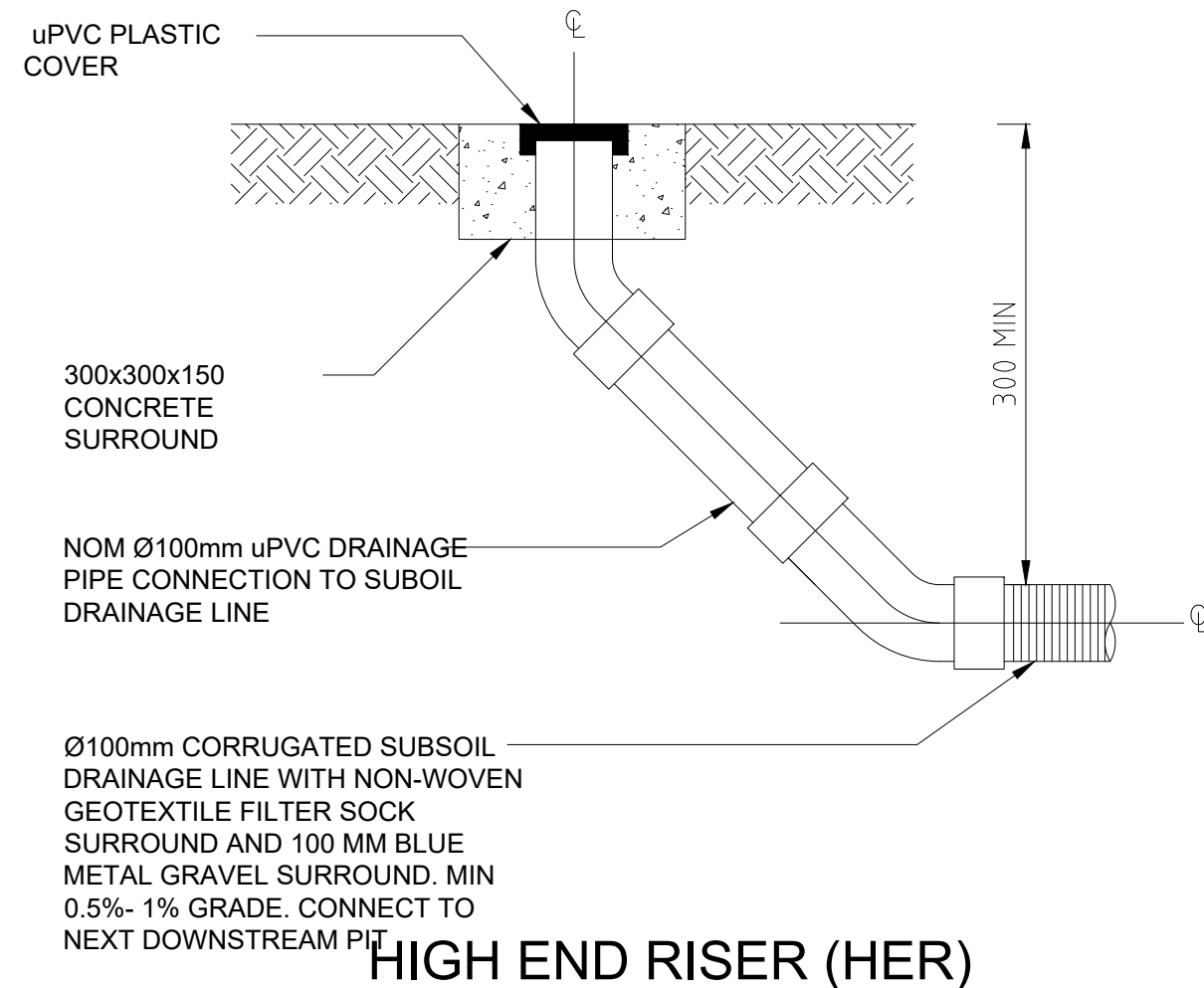
PLANTER BOX OUTLET



PIPE LAYING DETAILS UNDER LANDSCAPED AREAS (USE AS DIRECTED IN POOR GROUND CONDITIONS)



GRATED TRENCH DETAIL



UPVC DOWNPIPE CONNECTION

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Architect

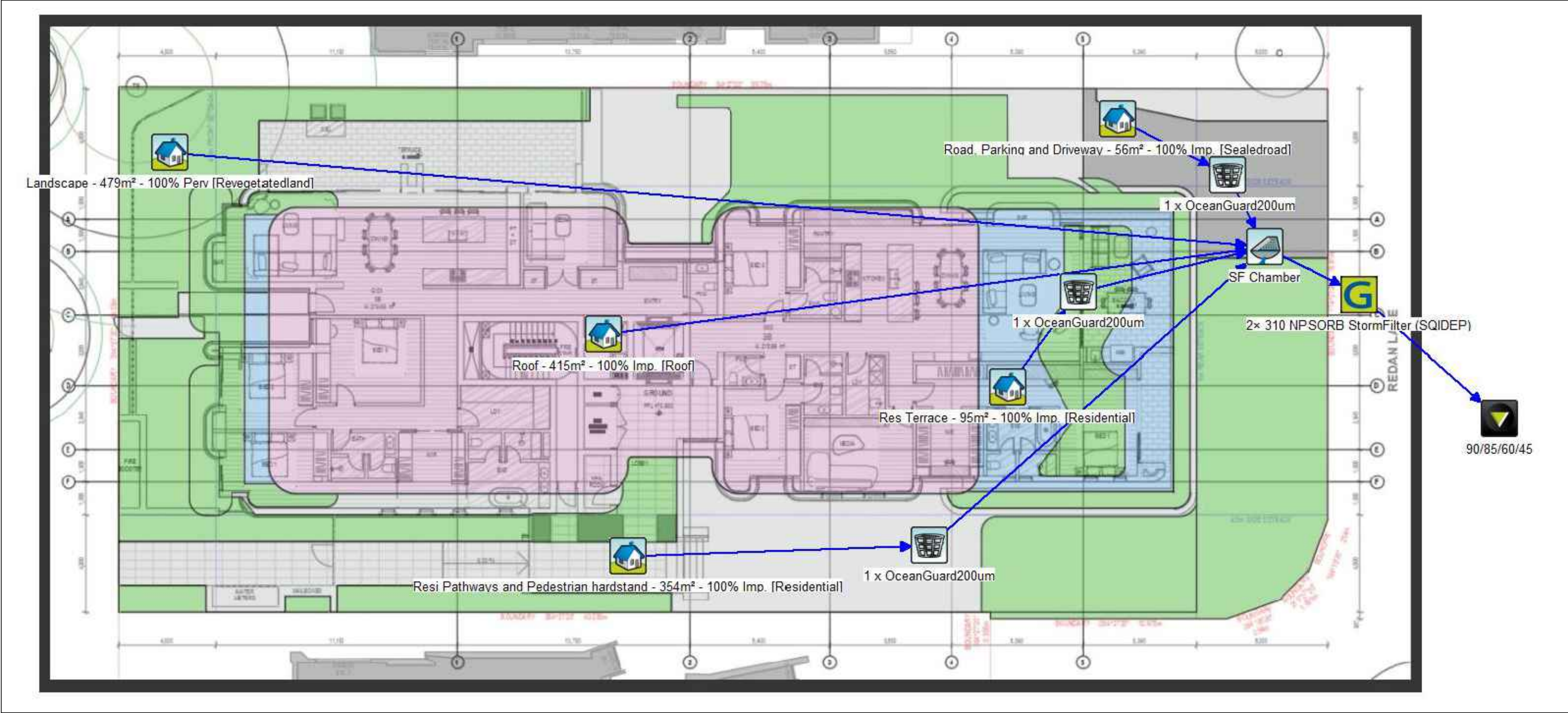
Client

Engineer
 EI Australia Suite 6.01 55 Miller Street Pyrmont, NSW 2009 T 02 9516 0722

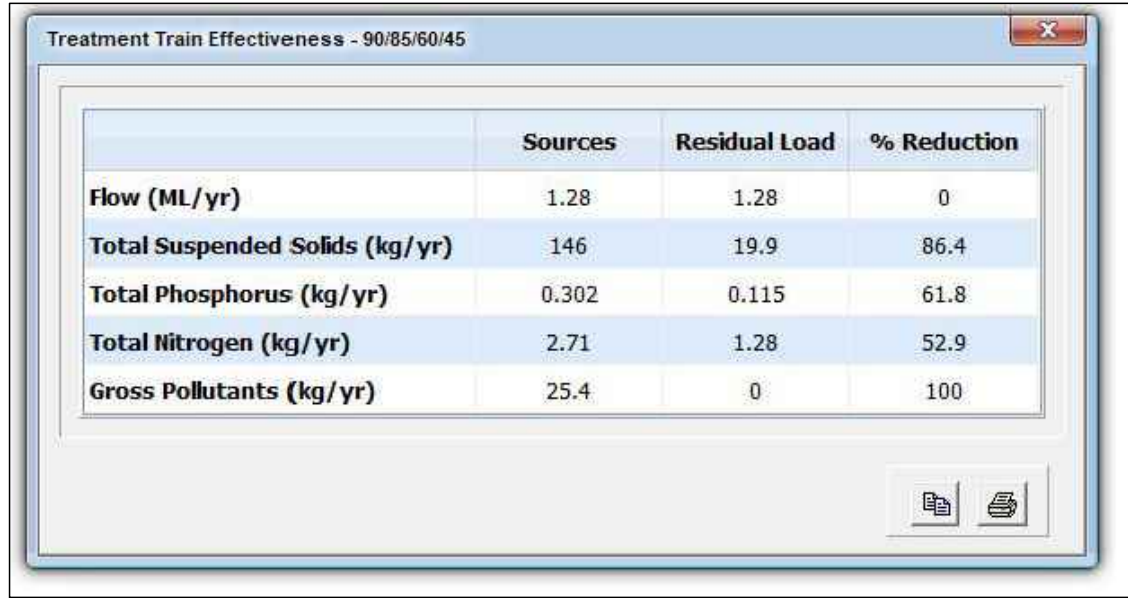
Project
65 MUSTON ST, MOSMAN NSW 2088
Title
STORMWATER MANAGEMENT MISC DETAILS

Drawn	Designed	Approved
HM	SA	HR
Project No.	Scale	
S10803	at A1. N.T.S	
Drawing No.	Revision	
C208	1	
Issued By	Checked By	Date
HR	HR	17.02.26

FOR SSDA SUBMISSION



MUSIC NODE NETWORK



MUSIC TREATMENT OUTCOME

Controls:

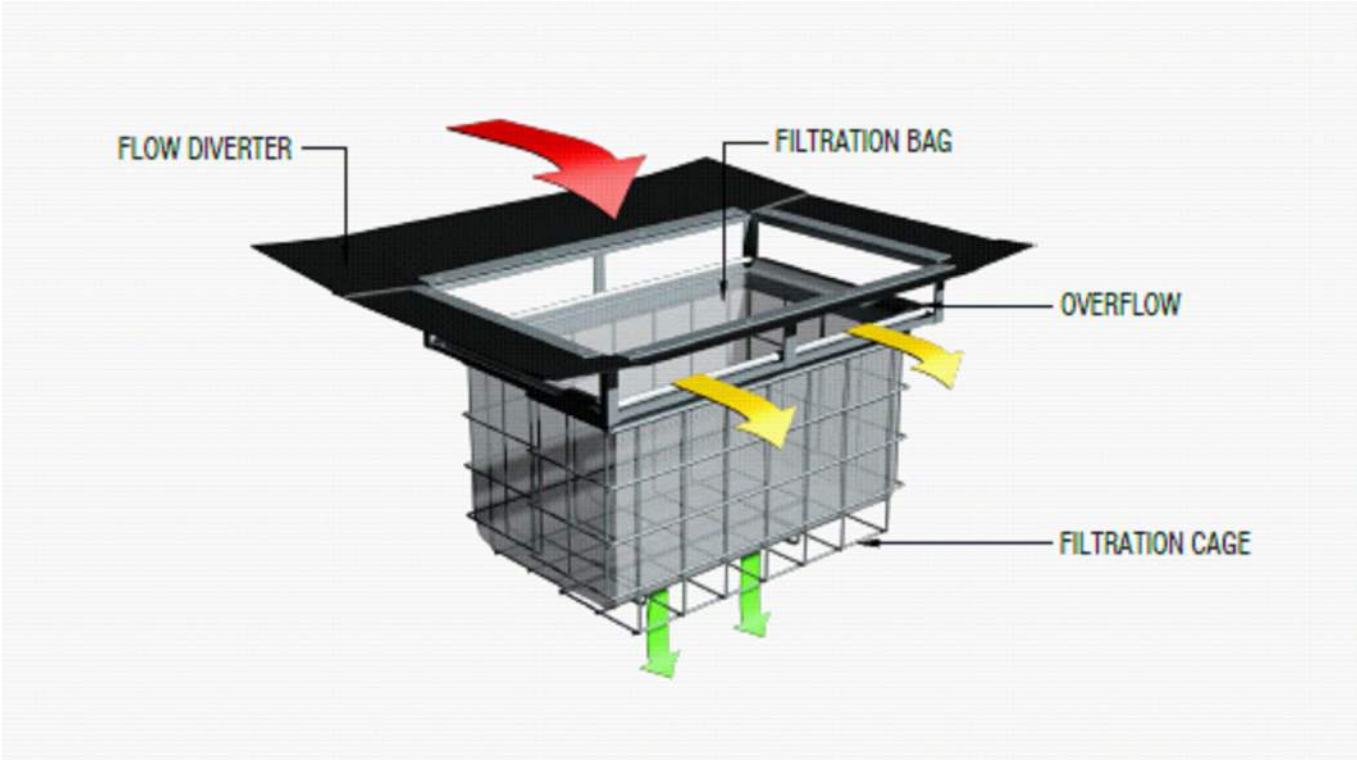
a) All stormwater flows from regular rainfall events up to and including the 0.393 AEP (1:2 year ARI) shall be captured for treatment prior to discharge to the stormwater drainage system.

b) The captured stormwater shall be treated to the following standards*

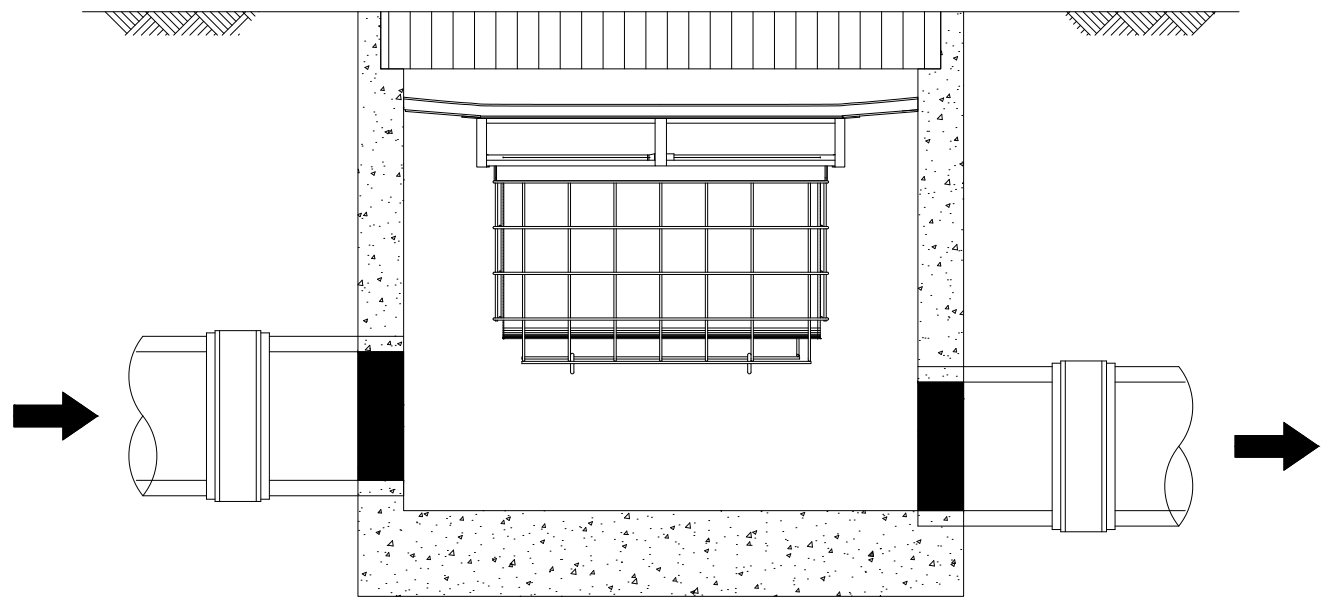
- i. Gross Pollutants 90%
- ii. Total Suspended Solids 85%
- iii. Total Phosphorus 60%
- iv. Total Nitrogen 45%

Determination of water quality targets are to be achieved in line with Sydney Water guidelines or using a MUSIC (Model for Urban Stormwater Improvement Conceptualisation) model. If the MUSIC model is used, parameters are to be in line with the parameters in Sydney Catchment Authority's document 'Using MUSIC in Sydney's Drinking Water Catchment'.

COUNCIL WSUD TARGETS



TYPICAL ENVIROPOD DETAIL
(TO BE INSTALLED IN ALL EXISTING PIT TAKING STORMWATER FROM GRATE)



STORMFILTER WSUD CARTRIDGE DETAILS

- STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED.
- THE STANDARD CONFIGURATION IS SHOWN. ACTUAL CONFIGURATION OF THE SPECIFIED STRUCTURE(S) PER CERTIFYING ENGINEER WILL BE SHOWN ON SUBMITTAL DRAWING(S).
- FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 178mm.

CARTRIDGE NAME / SIPHON HEIGHT (mm)		310
CARTRIDGE PHYSICAL HEIGHT (mm)		600
TYPICAL WEIR HEIGHT [H] (mm)		540
CARTRIDGE FLOW RATE FOR ZPG MEDIA (L/s)		0.7
CARTRIDGE FLOW RATE FOR PSORB MEDIA (L/s)		0.39

STORMFILTER CARTRIDGE DETAIL

STORMFILTER CARTRIDGE NOTES

- A HIGH FLOW BYPASS ARRANGEMENT OR DISSIPATION STRUCTURE MAY BE REQUIRED TO MINIMISE RE-SUSPENSION OF SOLIDS OR ANY SIGNIFICANT INERTIAL FORCES ON THE CARTRIDGES.
- ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
- SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.
- THE INVERT LEVEL OF THE INLET PIPE MUST BE GREATER THAN THE RL OF THE FALSE FLOOR WITHIN THE CARTRIDGE CHAMBER.
- CONCRETE STRUCTURE AND ACCESS COVERS DESIGNED AND PROVIDED BY OTHERS. ACCESS COVERS TO BE A MINIMUM 900 X 900 ABOVE CARTRIDGES. OH&S REGARDING ACCESS COVERS AND TANK ACCESS TO BE ASSESSED BY OTHERS ON SITE.
- THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES.
- REFER TO MANUFACTURER SPECIFICATION FOR DETAILS.

INSTALLATION NOTES

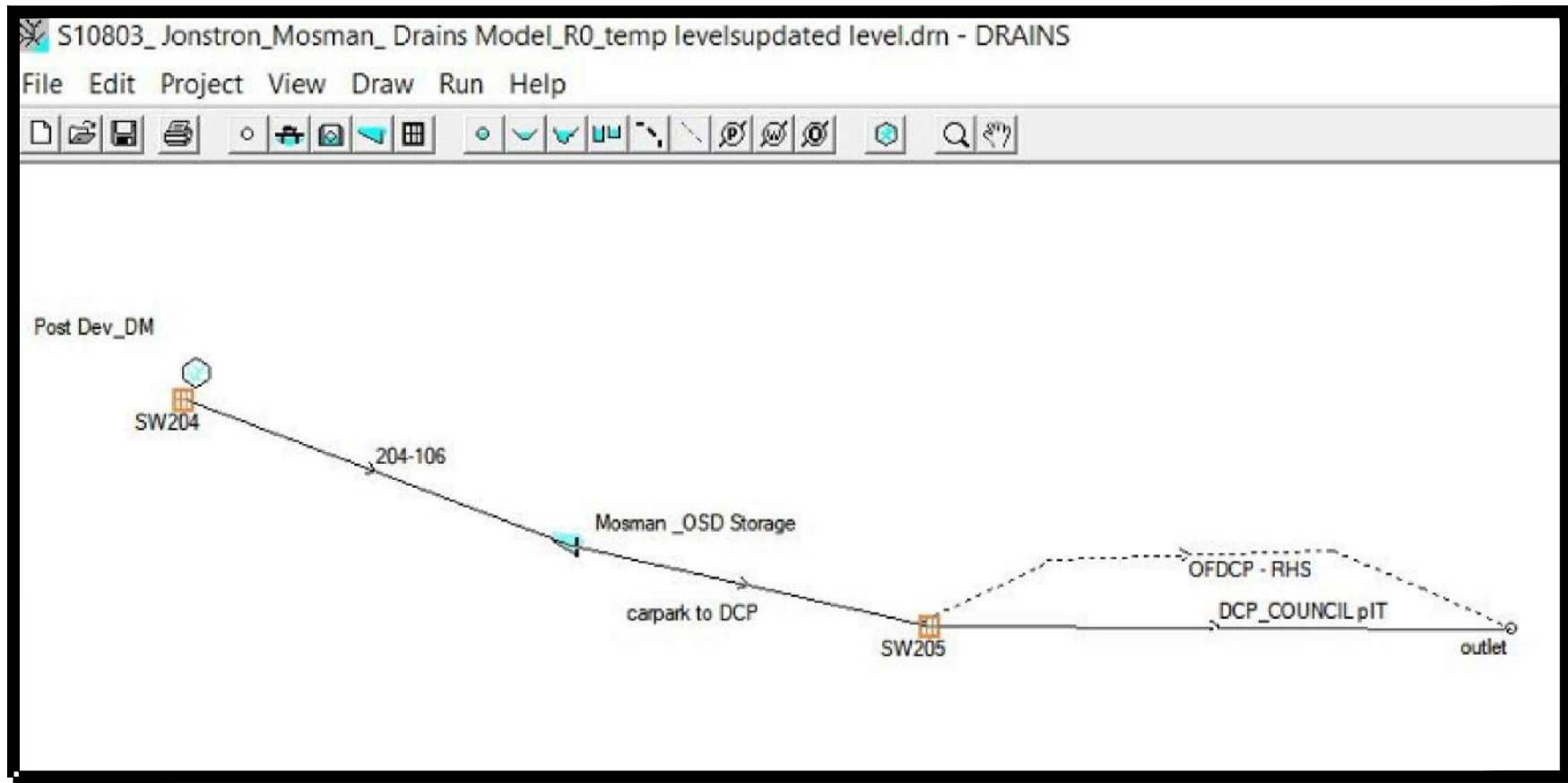
- UNDERDRAIN AND FALSE FLOOR INSTALLED BY MANUFACTURER.

SOURCE: OCEAN PROTECT

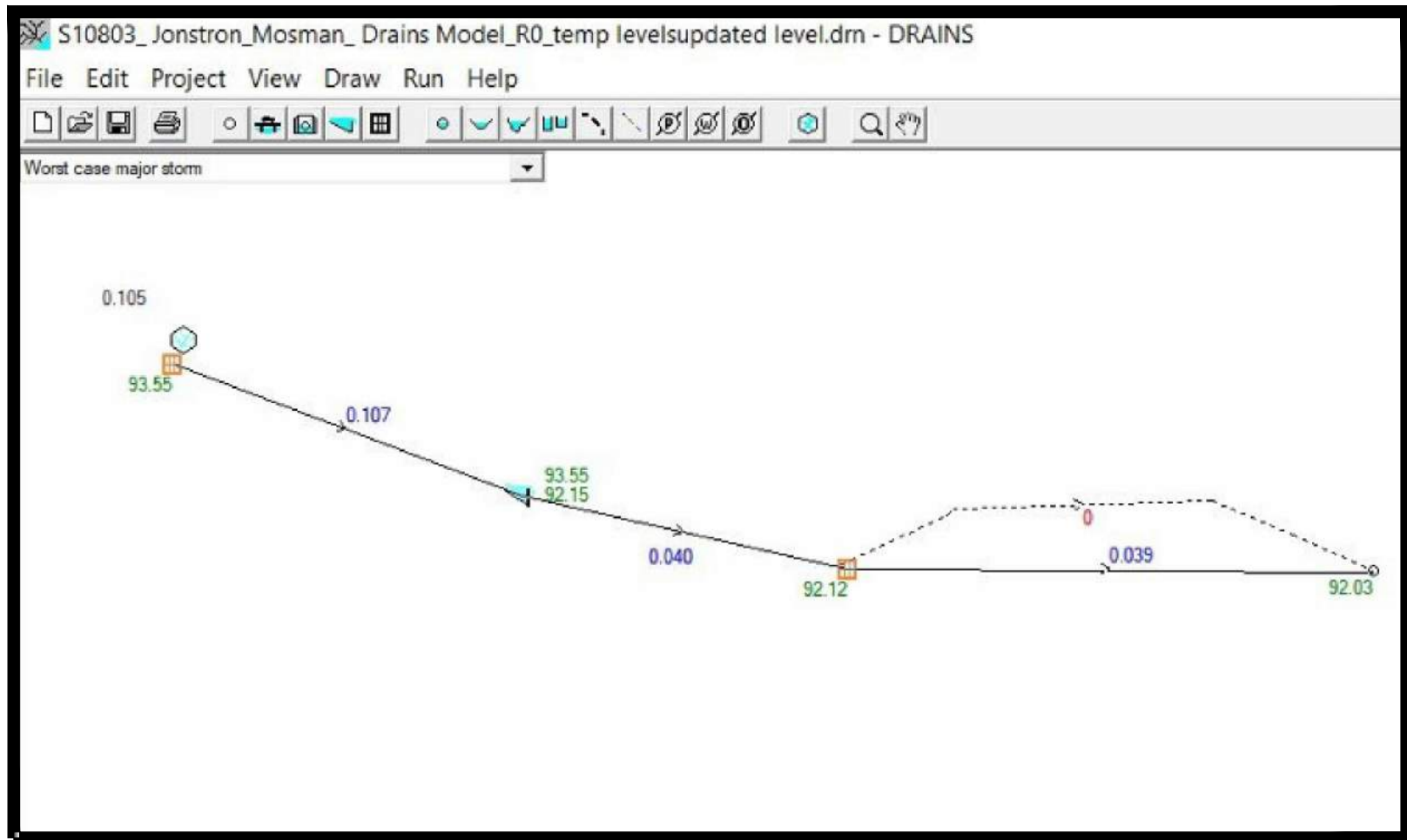
NOTE: PRODUCT AND ASSOCIATED DETAILS ARE SOURCED FROM OCEAN PROTECT MANUFACTURER GUIDELINES. TREATMENT CARTRIDGES ARE MODELLED IN MUSIC FOR WSUD COMPLIANCE. REFER TO OCEAN PROTECT WEBSITE FOR DETAILS.

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0	DRAFT FOR REVIEW	HR	12.01.26					65 MUSTON ST, MOSMAN NSW 2088	HM	SA	HR
1	FOR SSDA SUBMISSION	HR	17.02.26						Project No. Scale		
									S10803 at A1. N.T.S		
									Drawing No. Revision		
								C300 1			
								Issued By Checked By Date			
								HR HR 17.02.26			

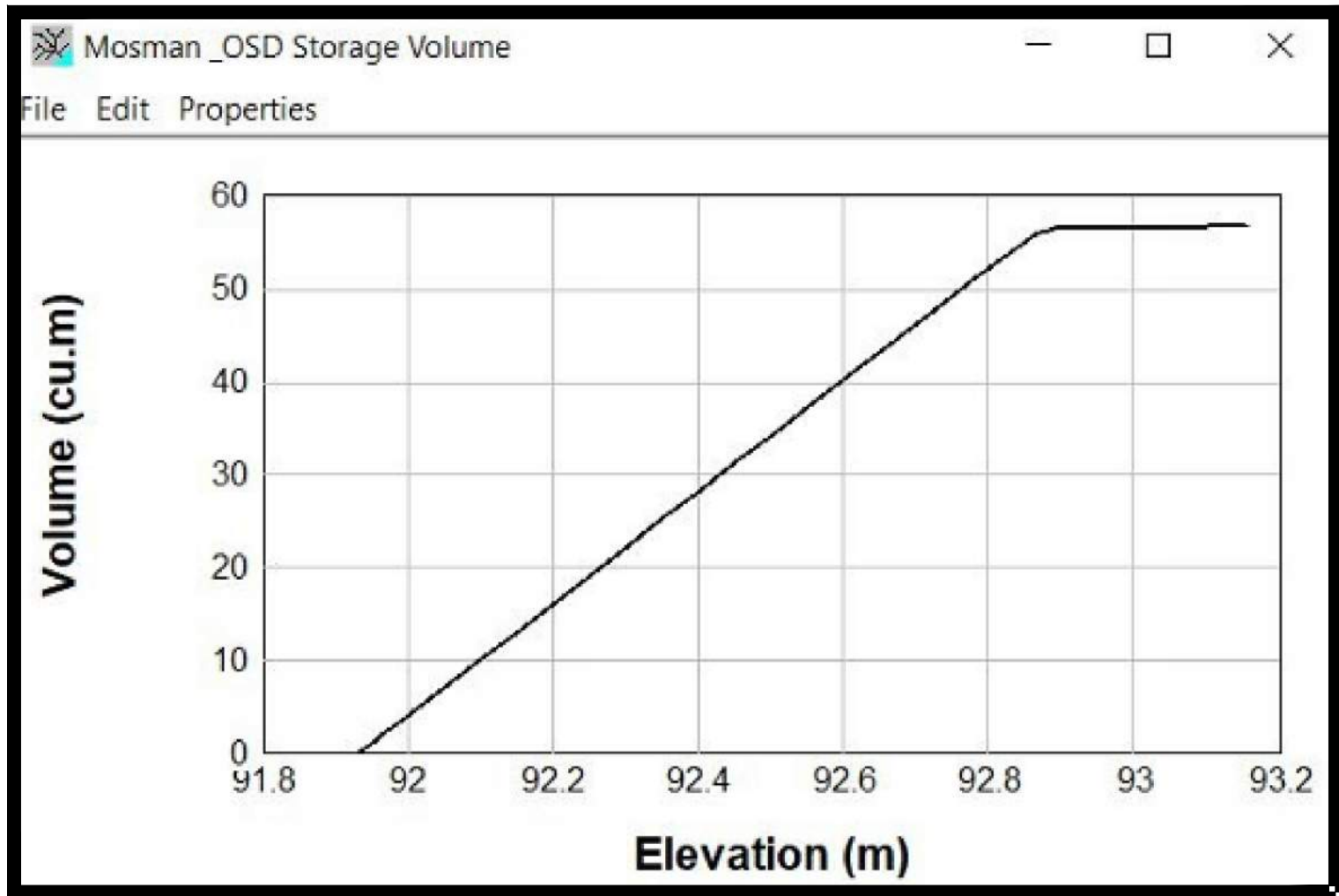
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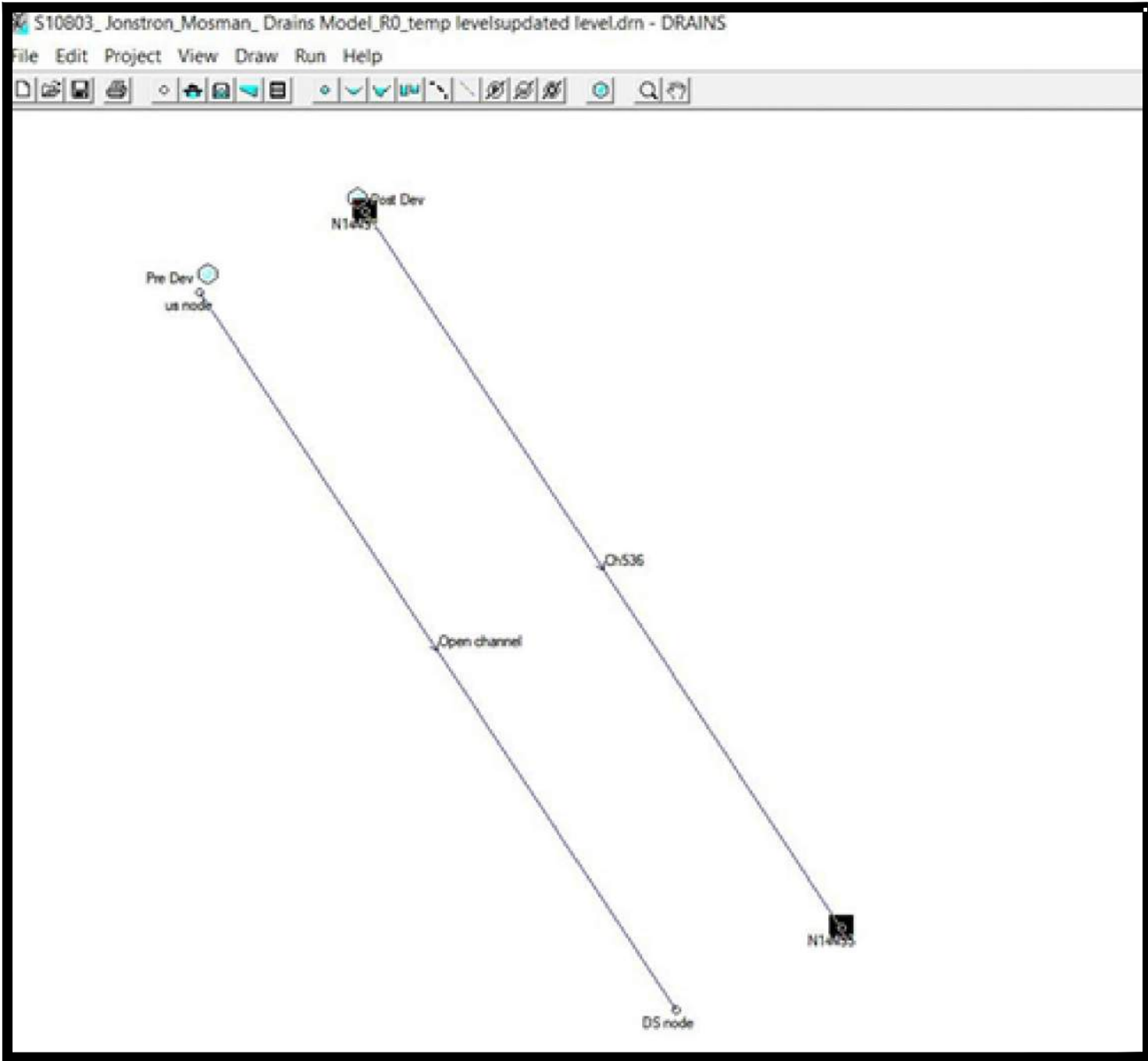
100 YEAR ARI DRAINS NODE NETWORK



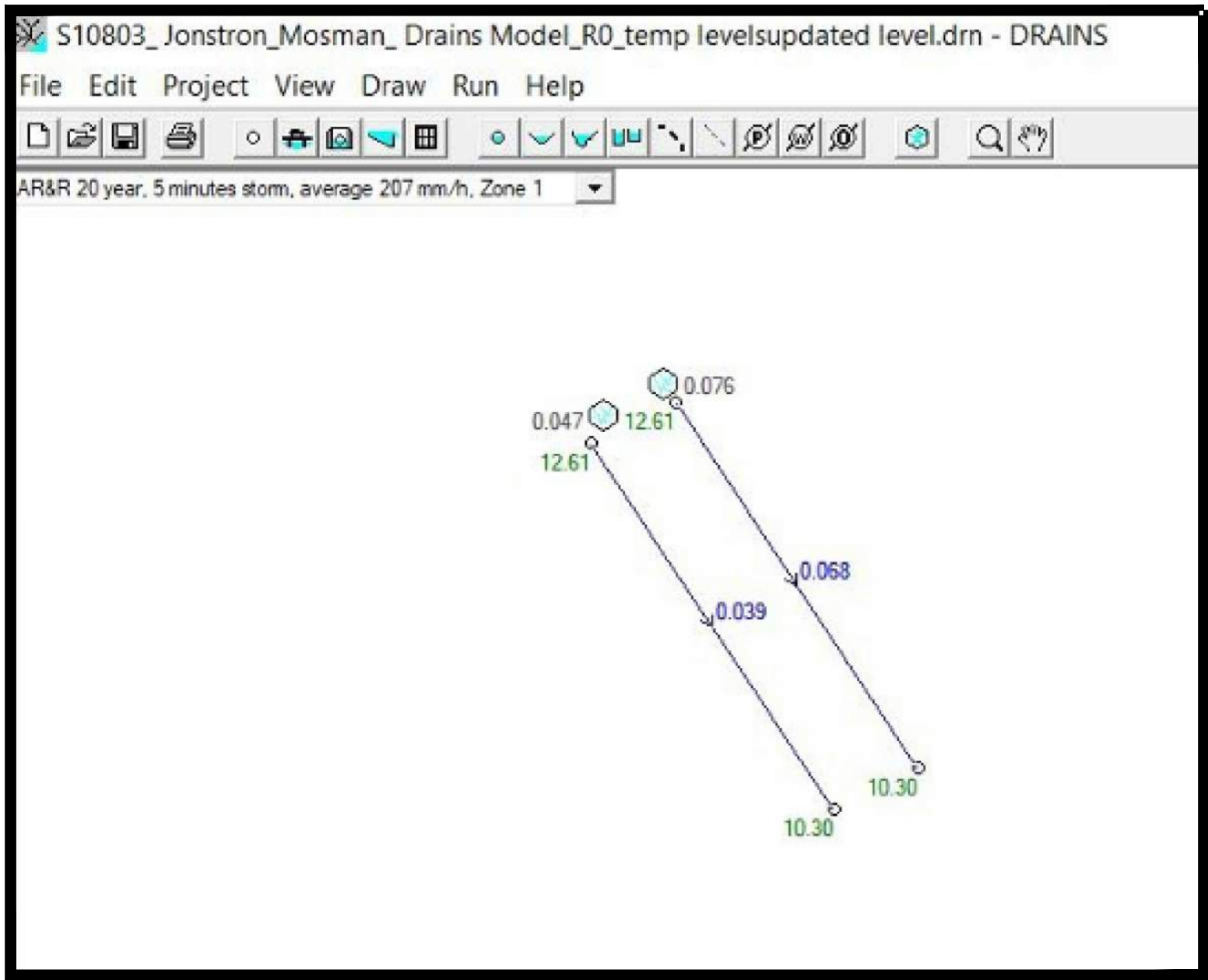
100 YEAR ARI MODEL OUTCOME



OSD STORAGE VOLUME



PRE & POST DEV
DRAINS NODE NETWORK



20 YEAR ARI PRE & POST DEV
MODEL OUTCOME

FOR SSDA SUBMISSION

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