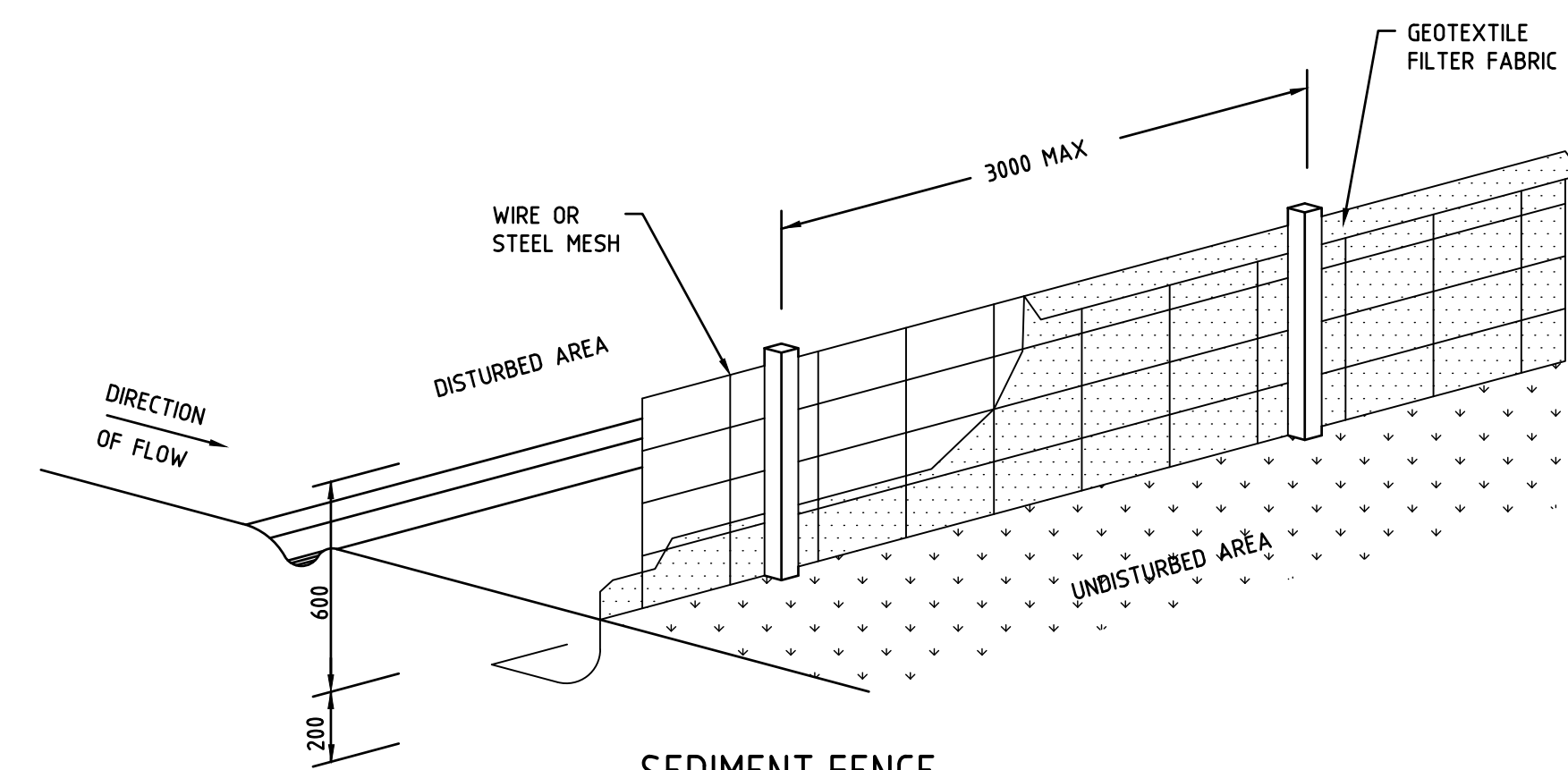
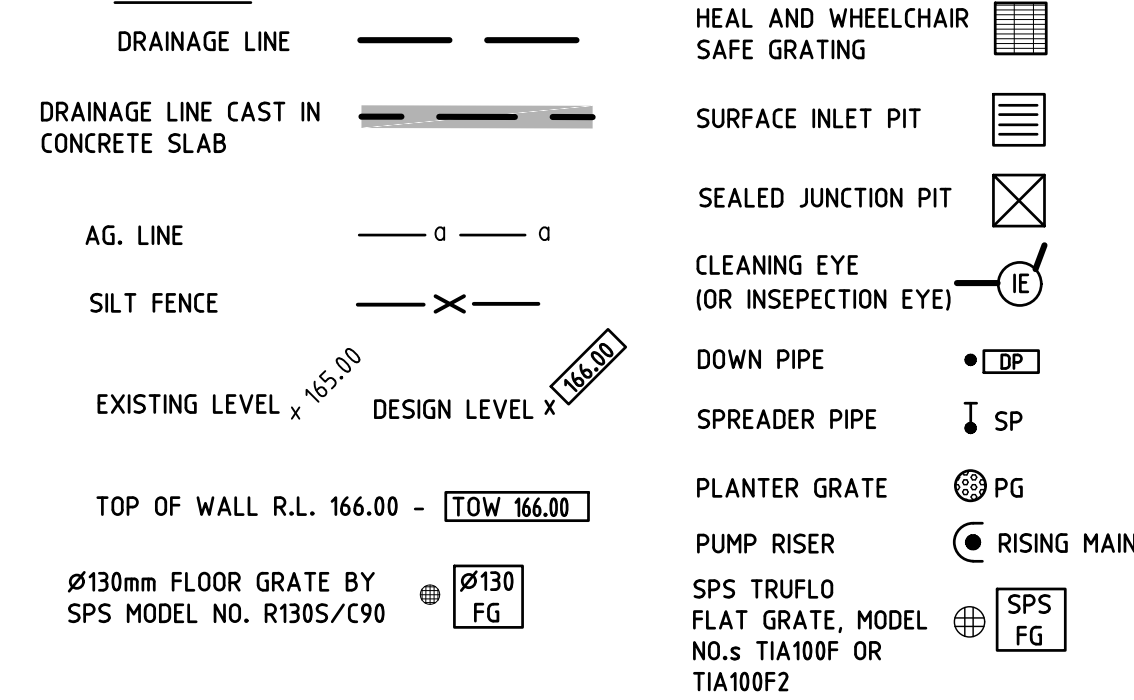


**PROPOSED MIXED USE DEVELOPMENT
233-259 MERRYLANDS ROAD, MERRYLANDS**

NOTES

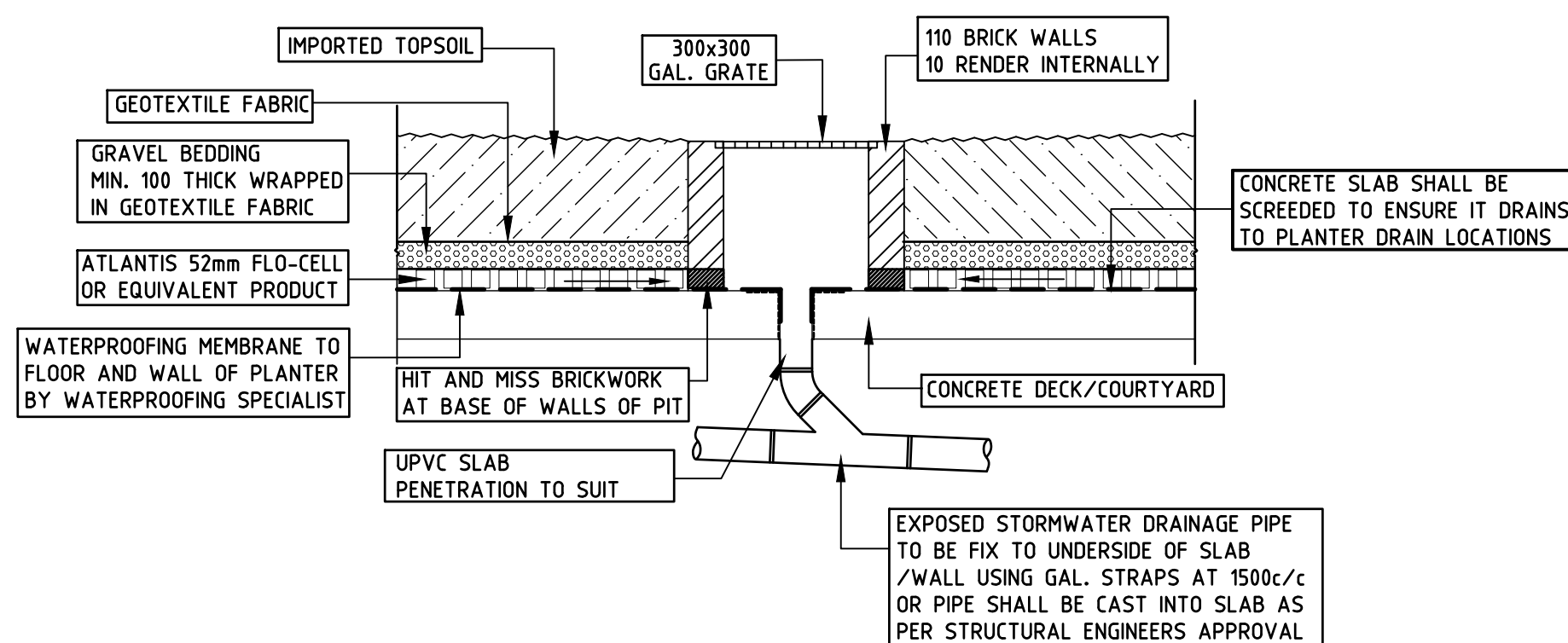
2. THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES.
3. THE BUILDER IS TO VERIFY ALL LEVELS ON SITE PRIOR TO COMMENCING CONSTRUCTION.
4. SILT FENCE IS TO BE ERECTED PRIOR TO COMMENCING WORK. FENCE TO BE MAINTAINED IN WORKING ORDER DURING TIME OF CONSTRUCTION.
5. W.A.E. DRAWING BY A REGISTERED SURVEYOR IS REQUIRED PRIOR TO CERTIFICATION OF DRAINAGE.
6. ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE UNDER GROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED GROUND LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE PURPOSES.
7. ALL TERRACE FLOOR & PLANTER GRATES TO HAVE FIRE COLLARS FITTED.
8. ALL PITS HAVING AN INTERNAL DEPTH THAT EXCEEDS 1.0m SHALL BE PROVIDED WITH AN ADVANCED STEP IRONS AT 300mm CENTRES PLACED IN A STAGGERED PATTERN AND SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS 4798-1994.
9. ALL LEVELS SHALL RELATE TO THE ESTABLISHED BENCHMARK.
10. THE BASE OF ALL DRAINAGE PITS SHALL BE BENCH TO THE INVERT OF THE OULET PIPE.
11. ALL GUTTERS SHALL BE MINIMUM 100 x 75mm AND DOWNPIPES SHALL BE MINIMUM 100 x 75mm UNLESS NOTED OTHERWISE.
12. ALL STORMWATER DRAINAGE PIPES SHALL BE A MINIMUM Ø100mm PVC LAID AT 1% MINIMUM GRADE UNLESS NOTED OTHERWISE ON THE DRAWING. WHERE GROUND COVER OVER THE PIPES IS LESS THAN 300mm THE STORMWATER PIPES SHALL BE SLOTTED GRATE UPVC.
13. THE BUILDER SHALL ENSURE THAT THE STORMWATER ENGINEERING DRAWINGS CORRESPOND TO THE ARCHITECTURAL, STRUCTURAL AND LANDSCAPE DRAWINGS. IF THERE EXISTS ANY DISCREPANCIES BETWEEN THE DRAWINGS THE BUILDER SHALL REPORT THE DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORKS.
14. ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ON SITE DETENTION STORAGE SHALL BE A NON-FLOATABLE MATERIAL SUCH AS DECORATIVE BROWN GRAVEL. PINK BARK MULCHING SHALL NOT BE USED WITHIN THE DETENTION STORAGE AREA.
15. ALL WORKS WITHIN THE FOOTPATH AREA SHALL BE SUITABLY BARRICADED AND SIGPOSTED IN ACCORDANCE WITH A TRAFFIC MANAGEMENT PLAN THAT HAS BEEN PREPARED BY A QUALIFIED AND A/R ACCREDITED TRAFFIC ENGINEER AND APPROVED BY COUNCIL. IT IS THE RESPONSIBILITY OF THE BUILDER OR CONTRACTOR OBTAINING OUT THE WORKS WITHIN THE FOOTPATH AREA AND ROAD RESERVE TO OBTAIN THE NECESSARY APPROVED DOCUMENTS AS OUTLINED ABOVE.
16. ALL RETAINING WALLS SHALL BE CONSTRUCTED COMPLETELY WITHIN THE PROPERTY BOUNDARY LIMITS TO DETAILS PREPARED BY THE STRUCTURAL ENGINEER. WALLS FORMING THE ON SITE DETENTION SYSTEM SHALL BE OF MASONRY/BRICK CONSTRUCTION AND SHALL BE FINISHED WITH A FINISH TO MATCH THE ADJACENT WALLS.
17. ALL SUB-SOIL DRAINAGE SHALL BE A MINIMUM OF Ø65mm AND SHALL BE PROVIDED WITH A FILTER SOCK. THE SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE LANDSCAPE ARCHITECT.
18. PRIOR TO COMMENCING ANY WORKS ON THE SITE, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITES STORMWATER SYSTEM CONNECTS INTO THE COUNCIL'S KERB/DRAINAGE SYSTEM MATCHES THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.
19. ALL DRAINAGE ROUTING SHALL BE STRICTLY ADHERED TO AS THAT INDICATED ON THE STORMWATER DESIGN DRAWINGS. ANY PROPOSED CHANGES TO THE ROUTING REQUIRES PRIOR APPROVAL FROM THE DESIGNING ENGINEER.

LEGEND



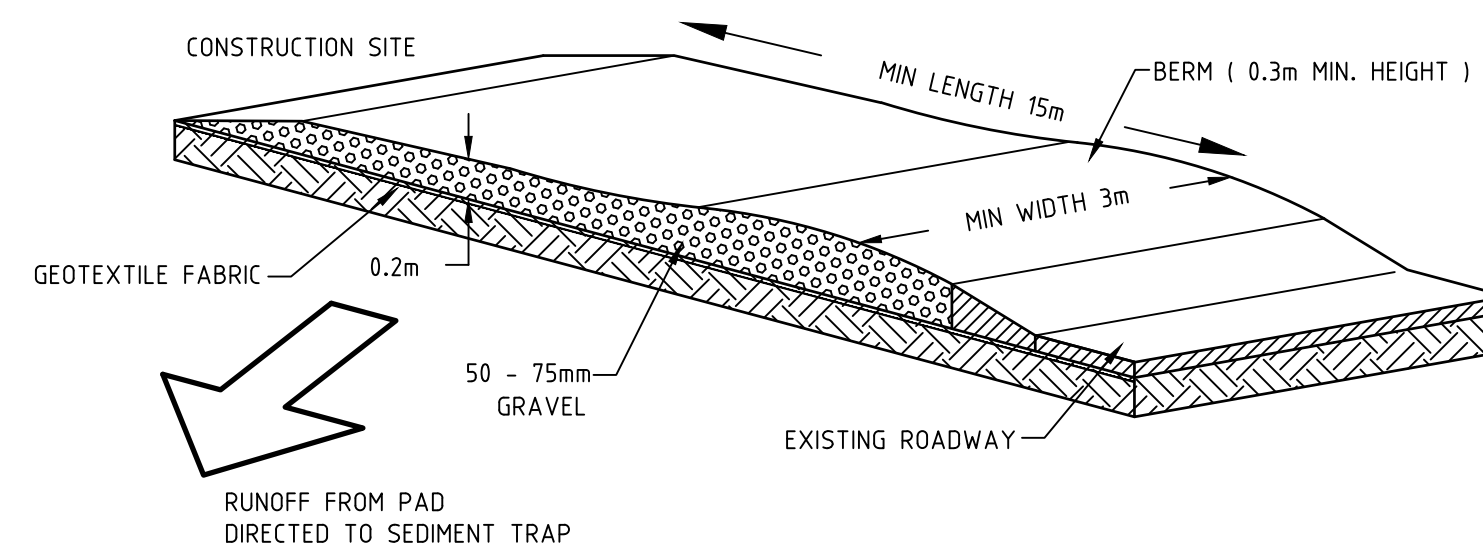
SEDIMENT FENCE

N.T.S.



PLANTER DRAIN DETAIL (PD)

NOT TO SCALE



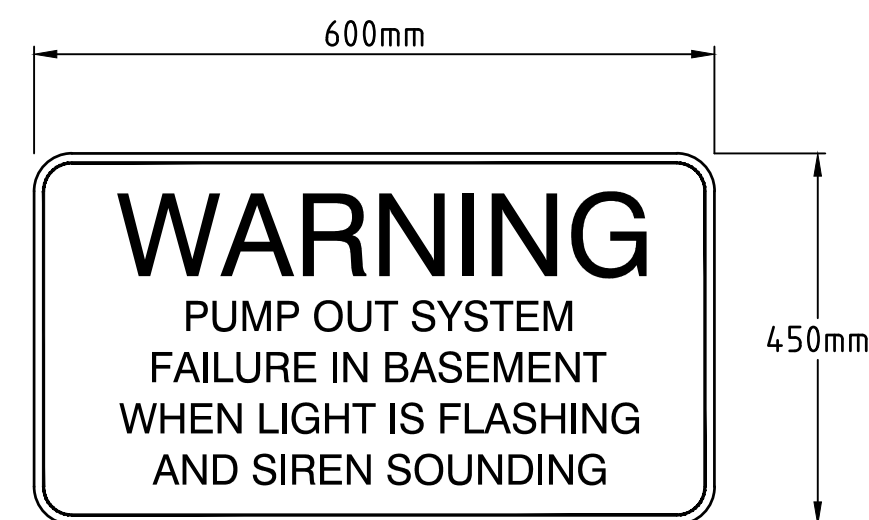
TEMPORARY CONSTRUCTION

EXIT / ENTRANCE

N.T.S.

SHEET INDEX

2660-DA-SW001	TITLE PAGE, NOTES AND DETAILS DRAWING
2660-DA-SW010	STORMWATER CONCEPT DRAWING -BASEMENT LEVEL 4 AND PUMP OUT TANK DETAILS AND NOTES
2660-DA-SW020	STORMWATER CONCEPT DRAWING -GROUND LEVEL
2660-DA-SW030	STORMWATER CONCEPT DRAWING -LEVEL 1
2660-DA-SW040	STORMWATER CONCEPT DRAWING -LEVEL 2
2660-DA-SW050	STORMWATER CONCEPT DRAWING -OSD TANK A AND WSUD TANK A PLAN AND SECTION DETAILS
2660-DA-SW060	STORMWATER CONCEPT DRAWING -OSD TANK B AND WSUD TANK B PLAN AND SECTION DETAILS
2660-DA-SW070	STORMWATER CONCEPT DRAWING -OSD TANK C AND WSUD TANK C PLAN AND SECTION DETAILS
2660-DA-SW080	STORMWATER CONCEPT DRAWING -OSD TANK D AND WSUD TANK D PLAN AND SECTION DETAILS
2660-DA-SW090	STORMWATER CONCEPT DRAWING -OSD TANK E AND WSUD TANK E PLAN AND SECTION DETAILS AND OSD CATCHMENT PLAN



BASEMENT PUMP OUT FAILURE

WARNING SIGN

NOTE:-

- 1 - SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION
WHERE VEHICLES ENTER THE BASEMENT

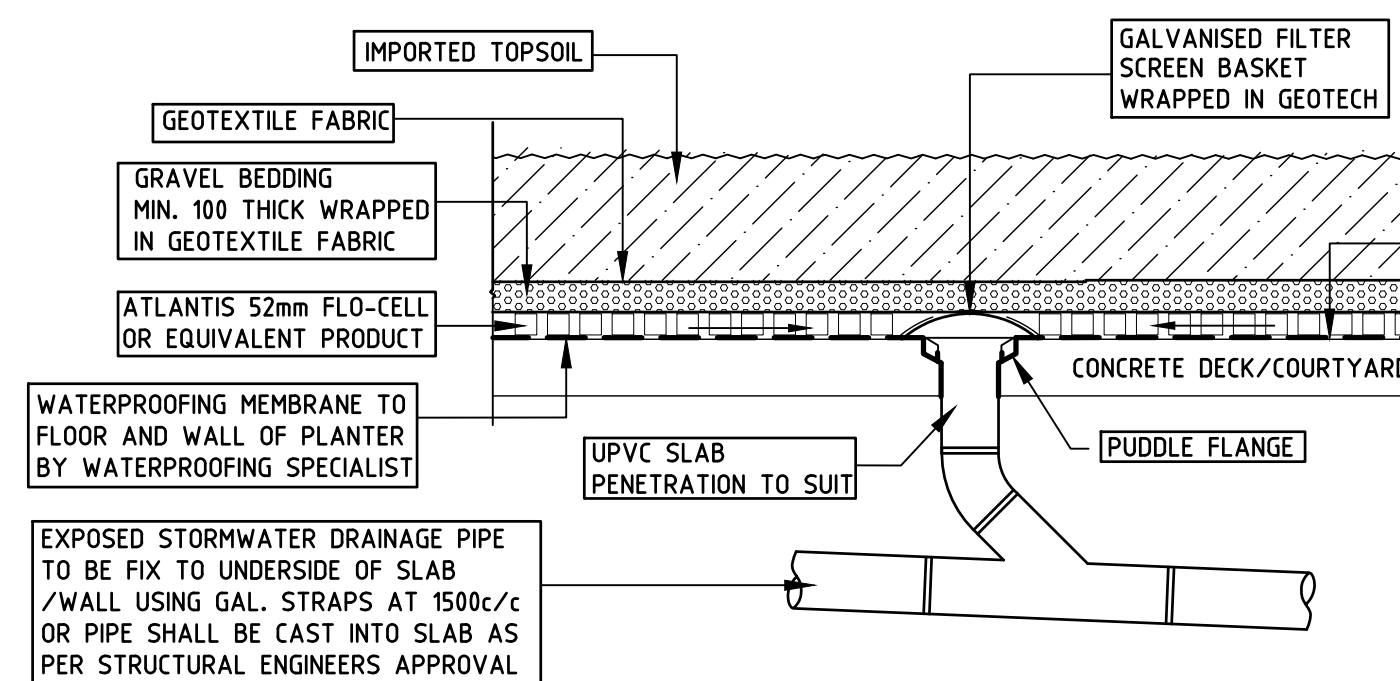
COLOURS:-

"WARNING" - RED
BORDER AND OTHER LETTERING - BLACK



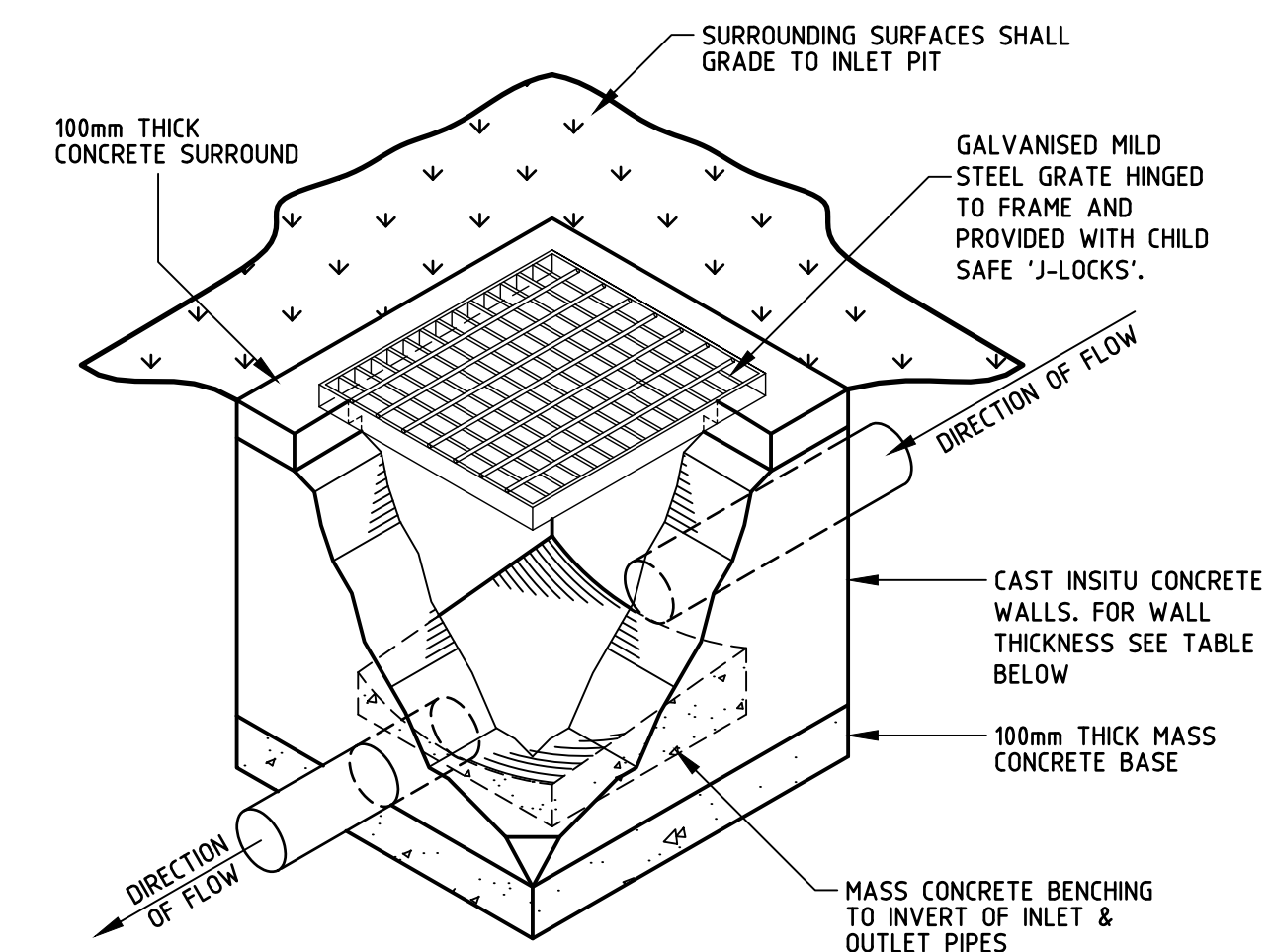
LOCALITY PLAN

NTS



PLANTER GRATE DETAIL (PG)

NOT TO SCALE

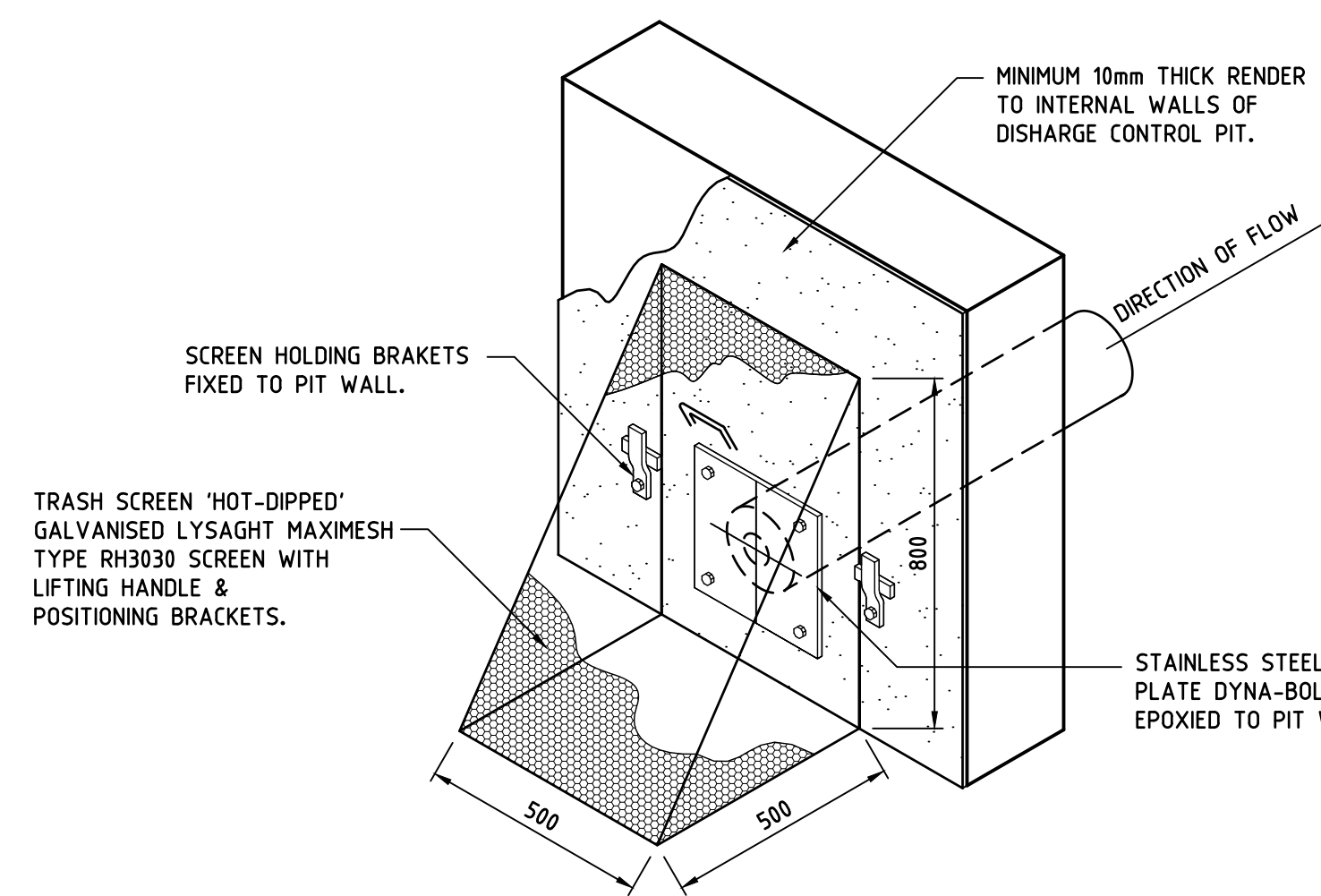


TYPICAL GRATED INLET PIT DETAIL

NOT TO SCALE

PIT DEPTH (mm)	WALL THICKNESS (mm)	REINFORCEMENT
0-600	150	-
601-1500	150	SL 1218
1501-3000	200	SL 1218

NOTE: PROVIDE ADDITIONAL CORNER BARS N12 @ 200mm CENTERS WHERE WALLS
ARE REINFORCED

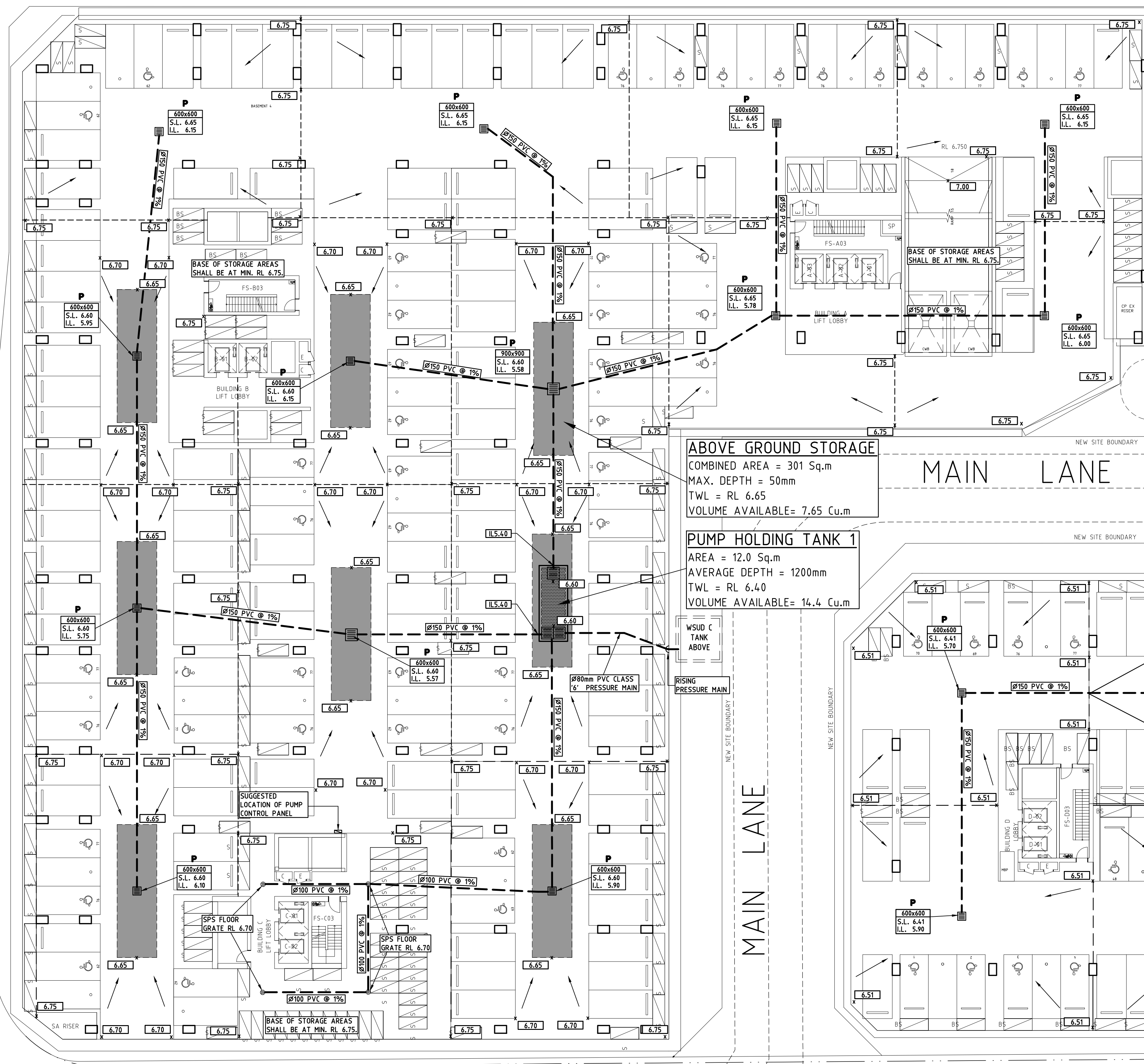


TRASH RACK INSTALLATION DETAIL

										© Copyright Mance Arraj Engineering Pty. Ltd. as at date of issue.										FOR COUNCIL / CONSTRUCTION CERTIFICATE ISSUE										 MANCE ARRAJ CIVIL & STRUCTURAL ENGINEERS First Floor, 278-282 Church Street, Parramatta P.O. Box 2555 North Parramatta NSW 1750 Ph. 02 8897 8800 www.maengineers.com.au																				DRAWING TITLE PROPOSED MIXED USE DEVELOPMENT 233-259 MERRYLANDS ROAD MERRYLANDS										PROJECT TITLE PAGE, NOTES AND DETAILS DRAWING										<table><tr><td>DESIGNED</td><td>GB</td><td rowspan="2">PROJECT NUMBER 2660-DA</td><td rowspan="4">ISSUE A</td></tr><tr><td>CHECKED</td><td>SA</td></tr><tr><td>DATUM</td><td>AHD</td><td>DRAWING NUMBER SW001</td></tr><tr><td>SCALE</td><td>AS INDICATED</td><td>B1</td></tr></table>										DESIGNED	GB	PROJECT NUMBER 2660-DA	ISSUE A	CHECKED	SA	DATUM	AHD	DRAWING NUMBER SW001	SCALE	AS 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CHECKED BY Signature:  Date: 21.02.2020 STEVE ARRAJ 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MC FARLANE STREET

TREVES STREET



MAIN LANE

ABOVE GROUND STORAGE
COMBINED AREA = 301 Sq.m
MAX. DEPTH = 50mm
TWL = RL 6.65
VOLUME AVAILABLE = 7.65 Cu.m

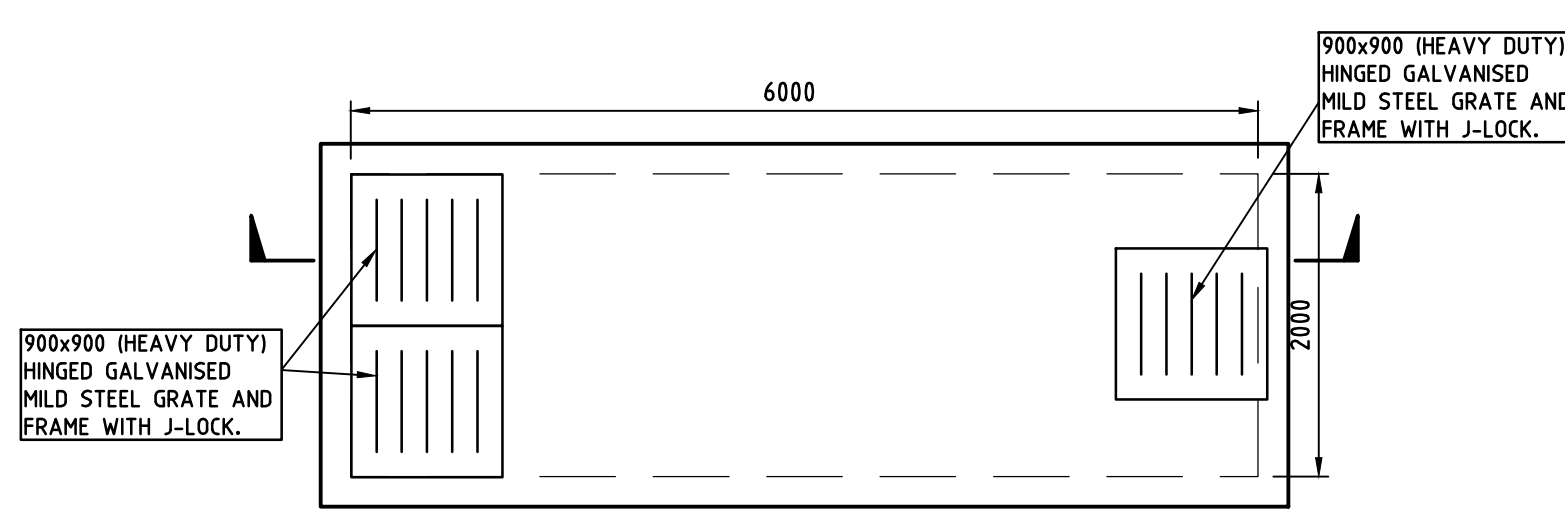
PUMP HOLDING TANK 1
AREA = 12.0 Sq.m
AVERAGE DEPTH = 1200mm
TWL = RL 6.40
VOLUME AVAILABLE = 14.4 Cu.m

ABOVE GROUND STORAGE
AREA = 384 Sq.m
MAX. DEPTH = 70mm
TWL = RL 5.97
VOLUME AVAILABLE = 8.65 Cu.m

PUMP HOLDING TANK 2
AREA = 12.0 Sq.m
AVERAGE DEPTH = 1200mm
TWL = RL 5.70
VOLUME AVAILABLE = 14.4 Cu.m

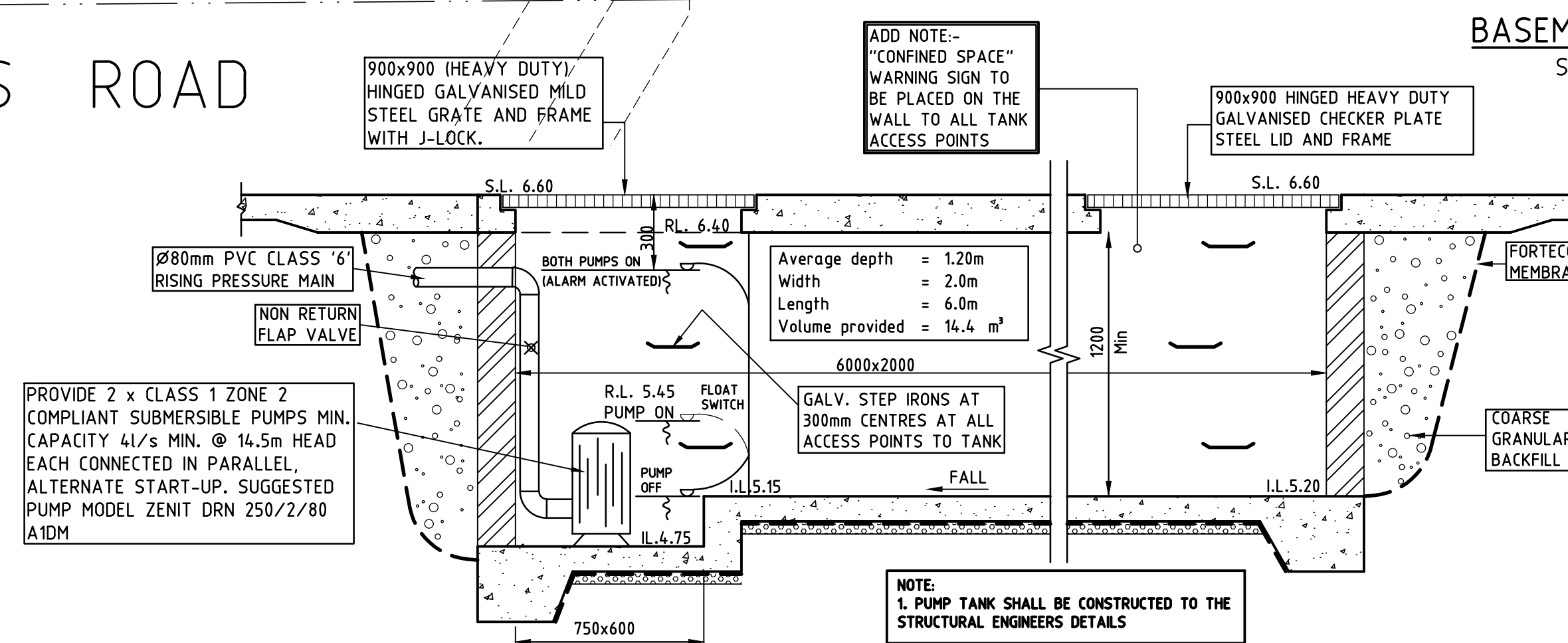
MERRYLANDS ROAD

BASEMENT LEVEL 4
SCALE 1:200

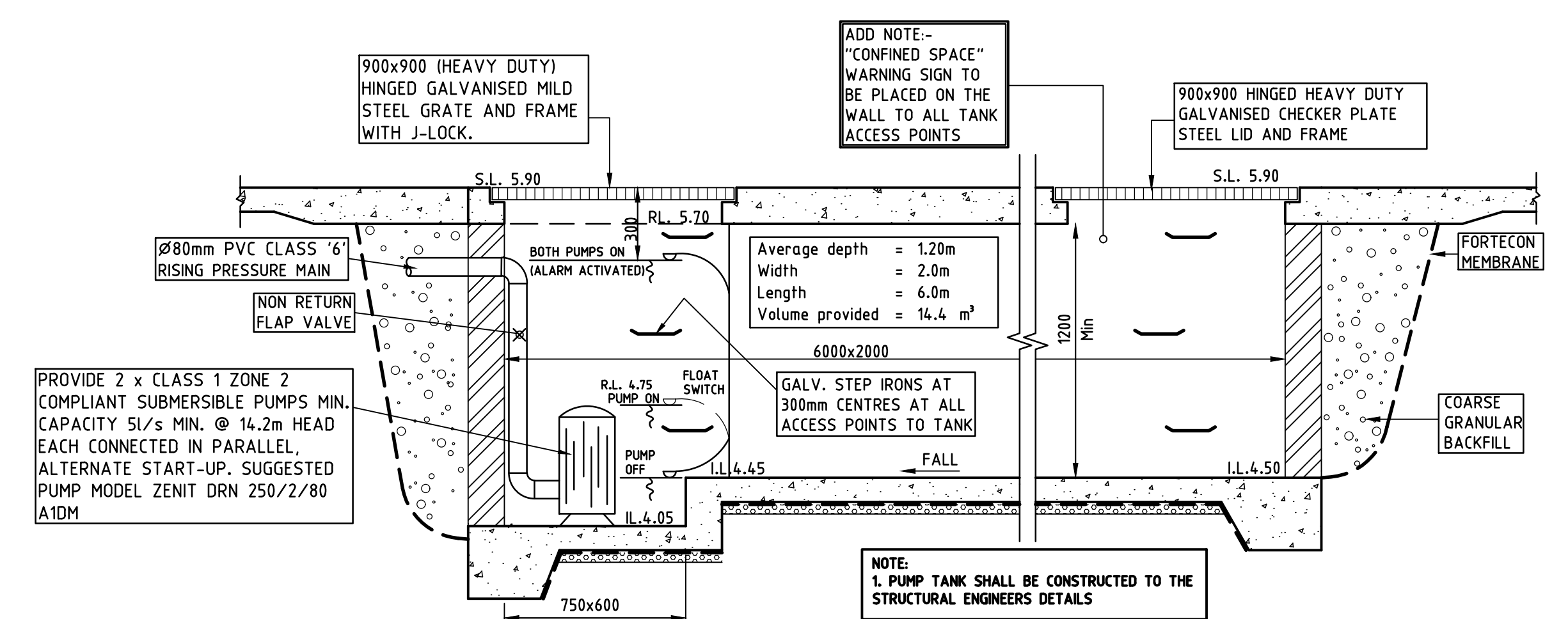


PLAN DETAIL OF PUMP HOLDING TANK 1 & 2
SCALE 1:50

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



SECTION PUMP-OUT TANK 1
SCALE NTS



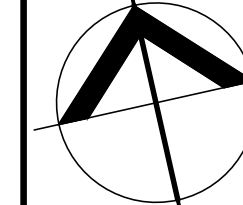
SECTION PUMP-OUT TANK 2
SCALE NTS

ISSUE	DESCRIPTION	BY	DATE	ISSUE	DESCRIPTION	BY	DATE
1	ISSUED FOR DEVELOPMENT APPROVAL	SA	20/02/20				
2	AMENDED TO INCORPORATE ARCHITECTURAL CHANGES	GB	17/03/20				

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FOR COUNCIL / CONSTRUCTION CERTIFICATE ISSUE
CHECKED BY: *Steve Arraj* DATE: 17.03.2020
STEVE ARR AJ B.E.(Civil)

MANCE ARR AJ
CIVIL & STRUCTURAL ENGINEERS
First Floor, 278-282 Church Street, Parramatta
P.O. Box 2555 North Parramatta NSW 1750
Ph. 02 8897 8800 www.maengineers.com.au



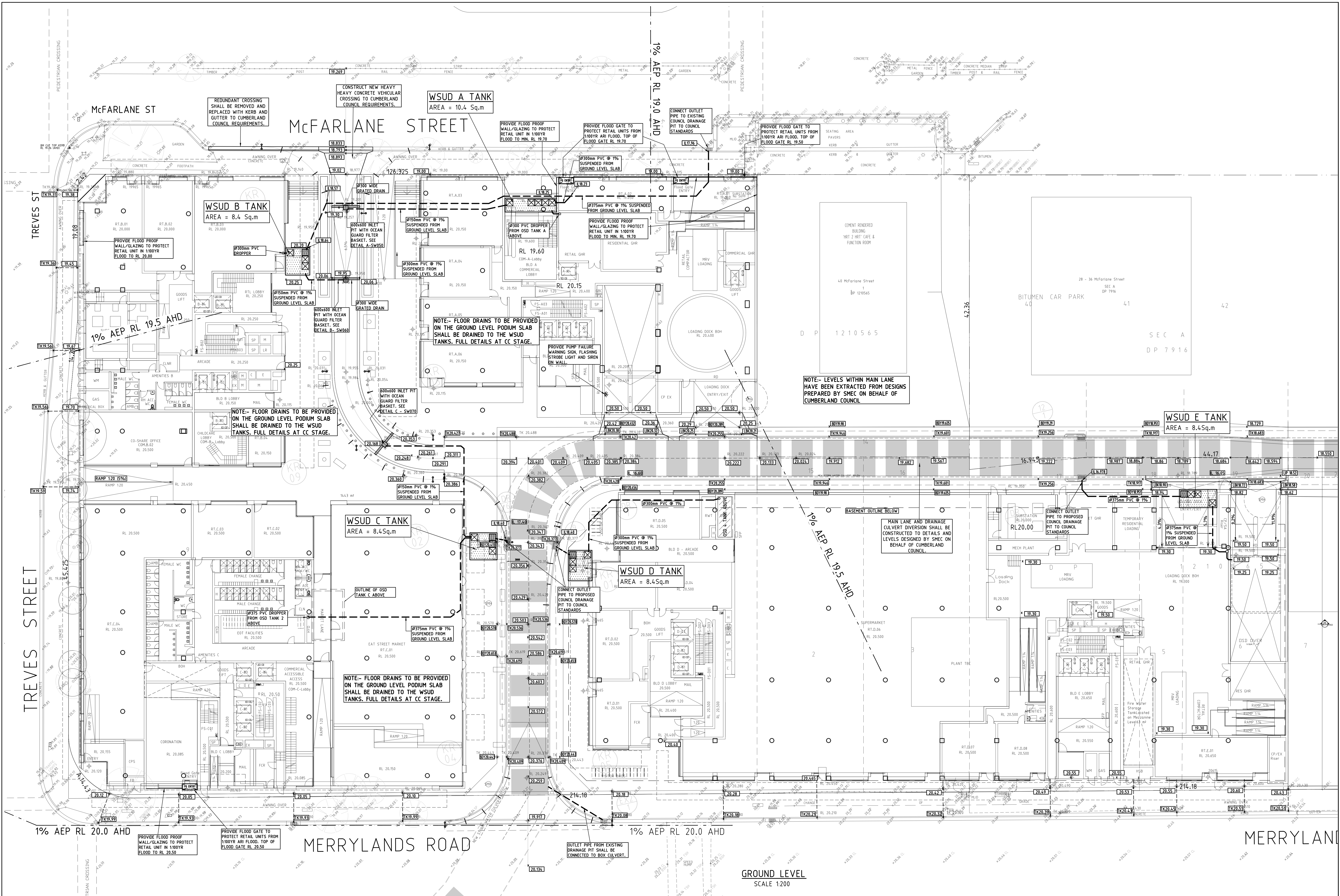
DRAWING TITLE
PROPOSED MIXED USE DEVELOPMENT
233-259 MERRYLANDS ROAD
MERRYLANDS

PROJECT
STORMWATER CONCEPT DRAWING
BASEMENT LEVEL 4 AND PUMP OUT TANK
DETAILS AND NOTES.

DESIGNED GB
CHECKED SA
DATUM AHD
SCALE 1:200 / AS SHOWN

PROJECT NUMBER
2660-DA
DRAWING NUMBER
SW010

ISSUE
B
B1



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B AMENDED TO INCORPORATE ARCHITECTURAL CHANGES				DATE 17/03/20		MANCE ARRAJ CIVIL & STRUCTURAL ENGINEERS First Floor, 278-282 Church Street, Parramatta P.O. Box 2555 North Parramatta NSW 1750 Ph. 02 8897 8800 www.maengineers.com.au	
A ISSUED FOR DEVELOPMENT APPROVAL				DATE 20/02/20		DRAWING TITLE PROPOSED MIXED USE DEVELOPMENT 233-259 MERRYLANDS ROAD MERRYLANDS	
ISSUE				BY		PROJECT STORMWATER CONCEPT DRAWING GROUND LEVEL	
DESCRIPTION				DATE		DESIGNED GB	
BY				DATE		CHECKED SA	
DATE				DATE		DATING AHD	
ISSUE				DATE		SCALE 1:200	
						PROJECT NUMBER 2660-DA	
						DRAWING NUMBER SW020	
						ISSUE B	
						B1	

MC FARLANE STREET

TREVES STREET

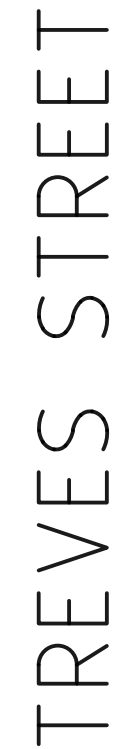
LANE

MERRYLANDS ROAD

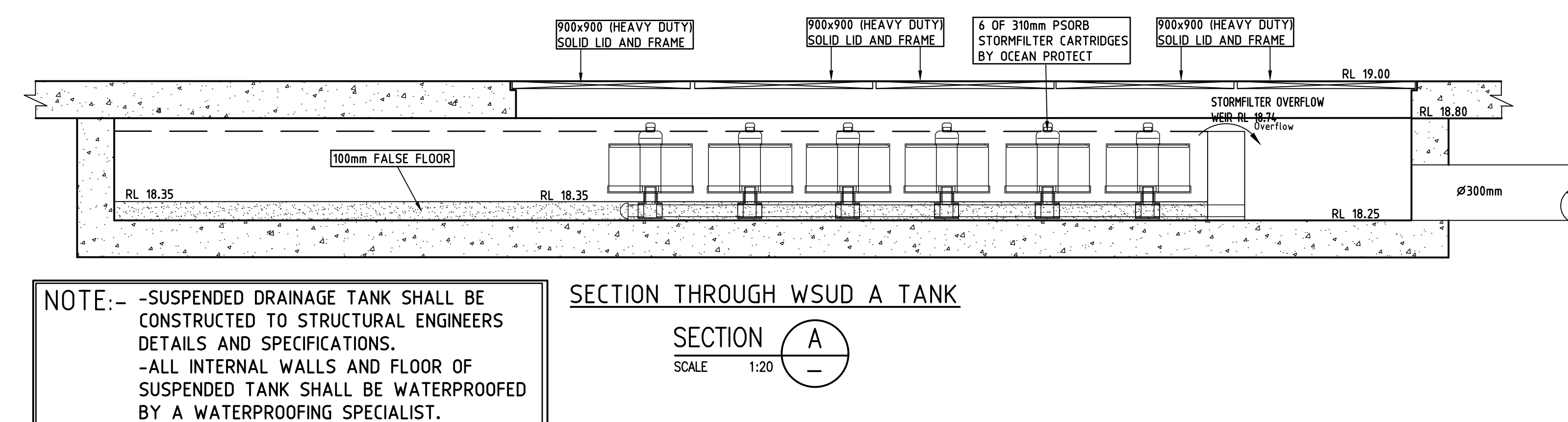
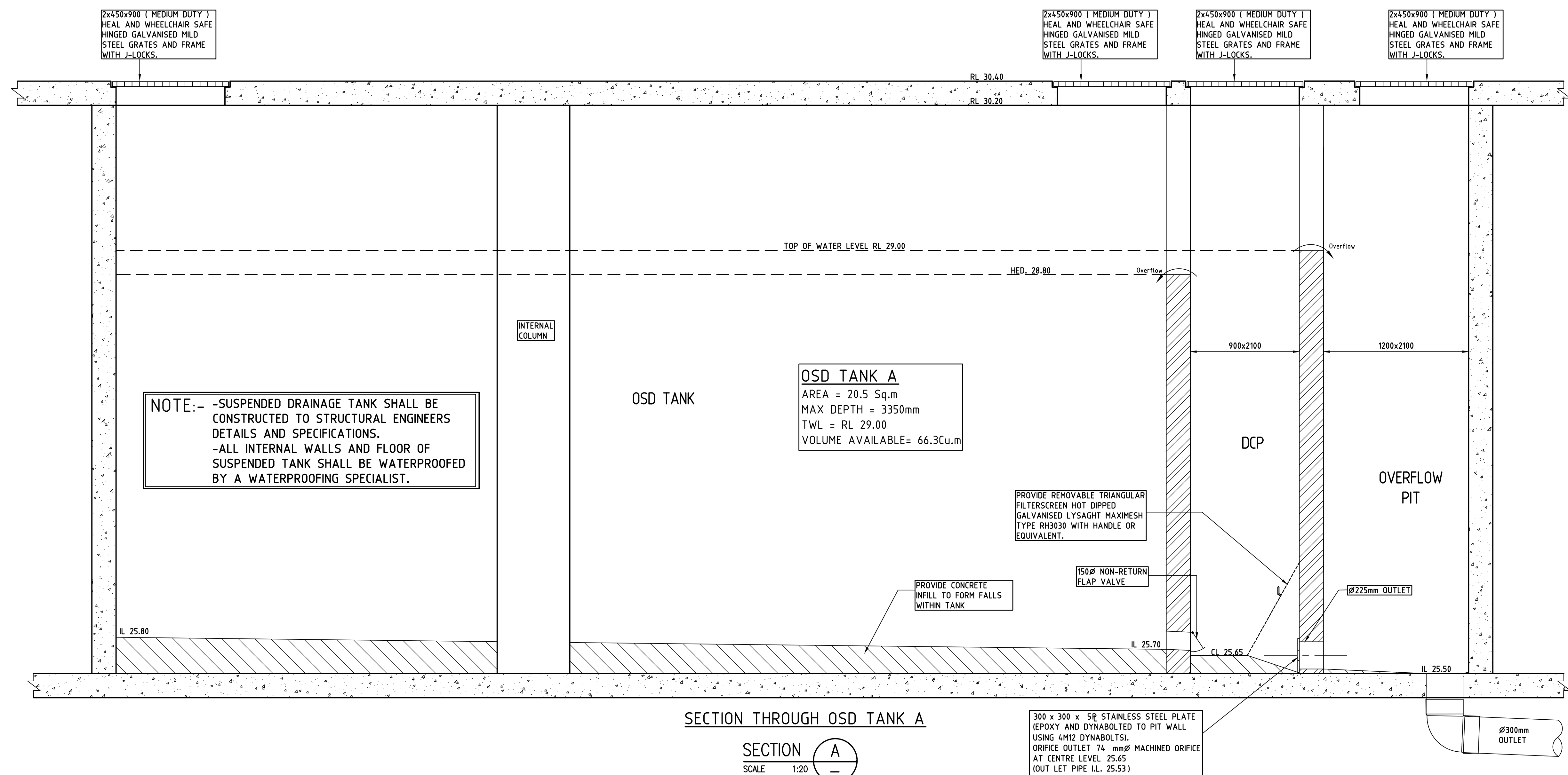
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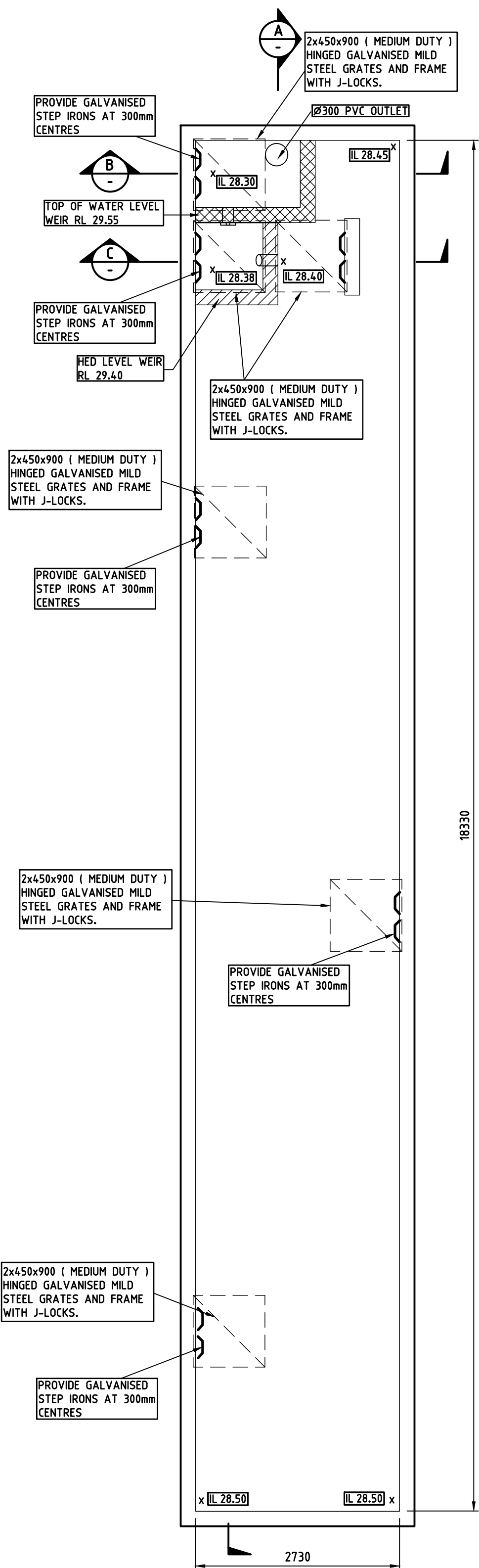
										© Copyright Mance Arraj Engineering Pty. Ltd. as at date of issue.										FOR COUNCIL / CONSTRUCTION CERTIFICATE ISSUE										 MANCE ARR AJ CIVIL & STRUCTURAL ENGINEERS First Floor, 278-282 Church Street, Parramatta P.O. Box 2555 North Parramatta NSW 1750 Ph. 02 8897 8800 www.maengineers.com.au										 PROPOSED MIXED USE DEVELOPMENT 233-259 MERRYLANDS ROAD MERRYLANDS										PROJECT STORMWATER CONCEPT DRAWING LEVEL 1										DESIGNED GB										PROJECT NUMBER										ISSUE B B1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
										Mance Arraj Engineering Pty Ltd is the owner of the copyright subsisting in these drawings and all related designs and specifications. These drawings and any related designs and specifications must not be reproduced or used in whole or in part nor may the ideas concepts or information contained in these drawings and related designs and specifications be used (in any way whatsoever) except in accordance with the agreement between Mance Arraj Engineering Pty Ltd. and the client.										CHECKED BY Signature: <i>Steve Arraj</i> STEVE ARR AJ B.E.(Civl)																																								Date: 17.03.2020										CHECKED SA																				2660-DA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

TREVES STREET

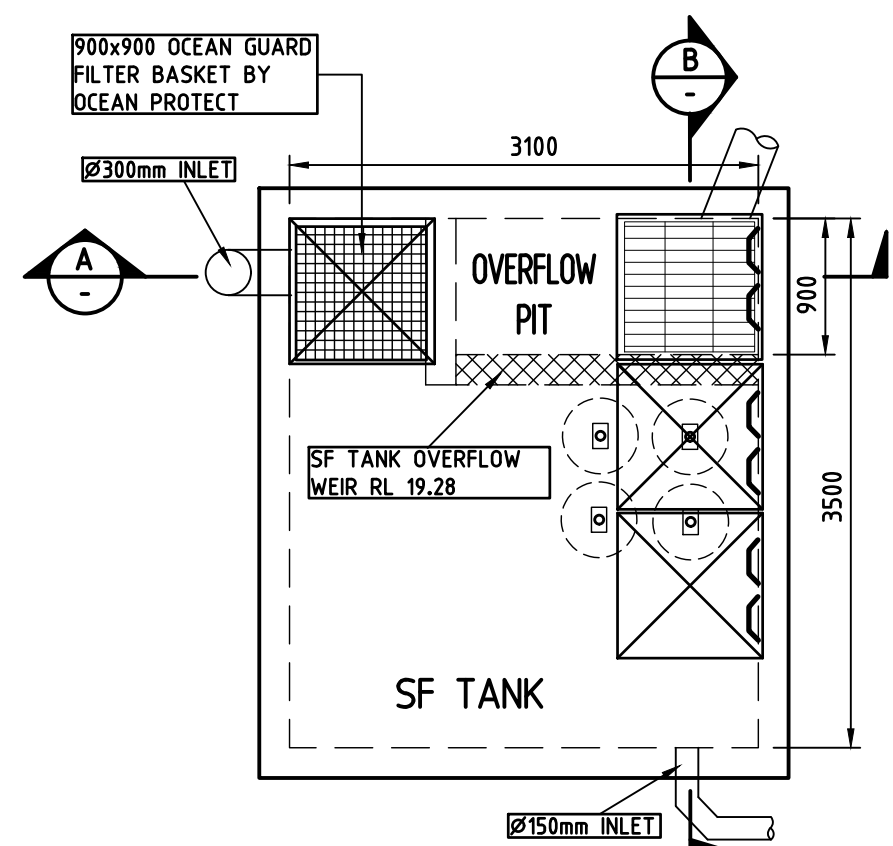


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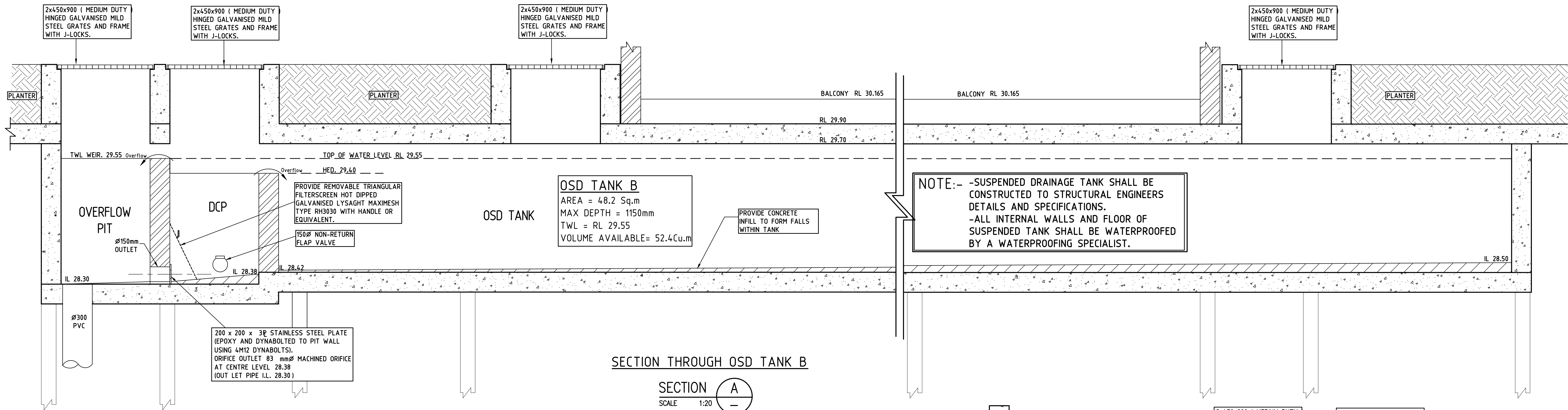




ON-SITE DETENTION TANK B PLAN
SCALE 1:50

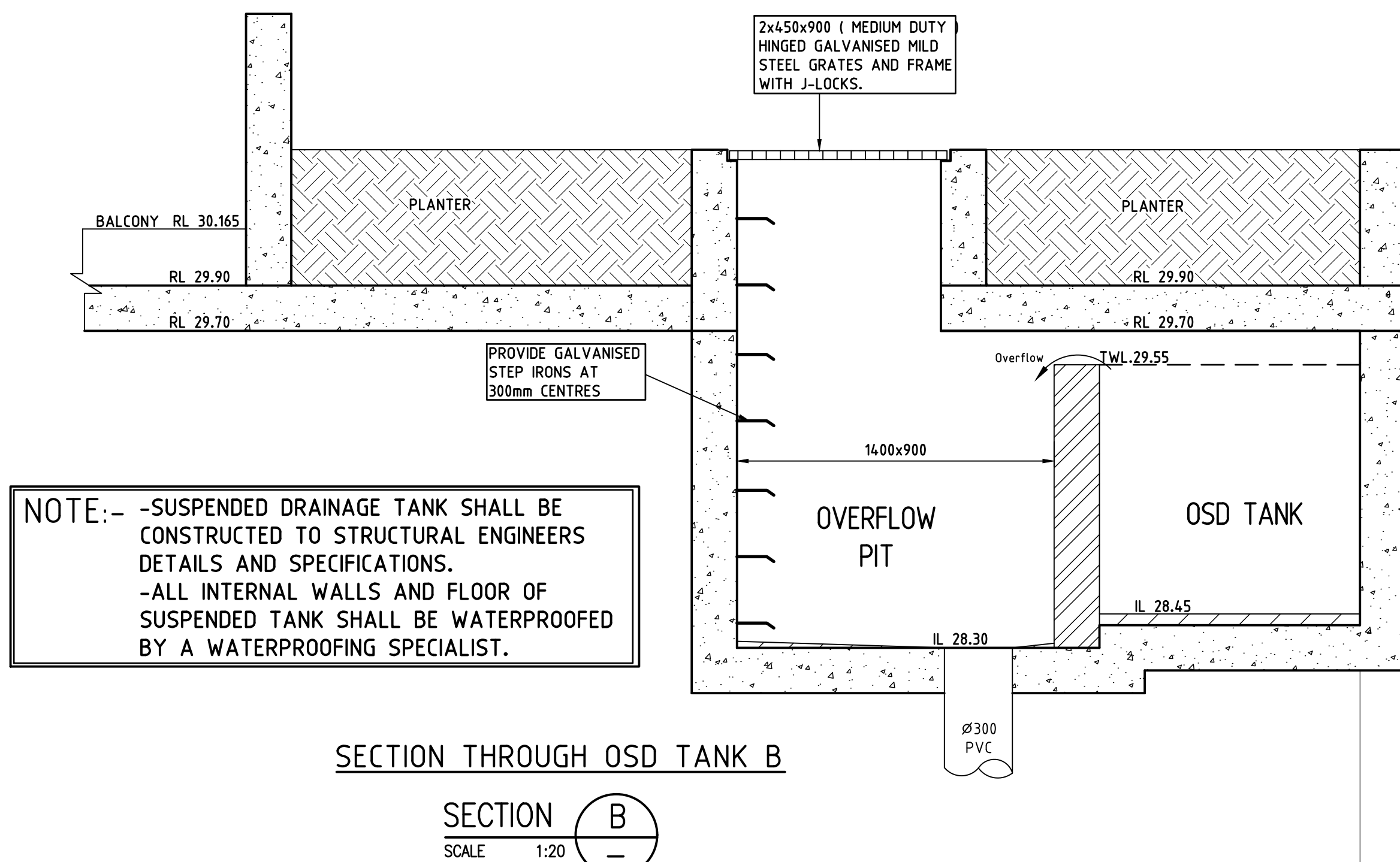


WSUD B TANK PLAN
SCALE 1:50



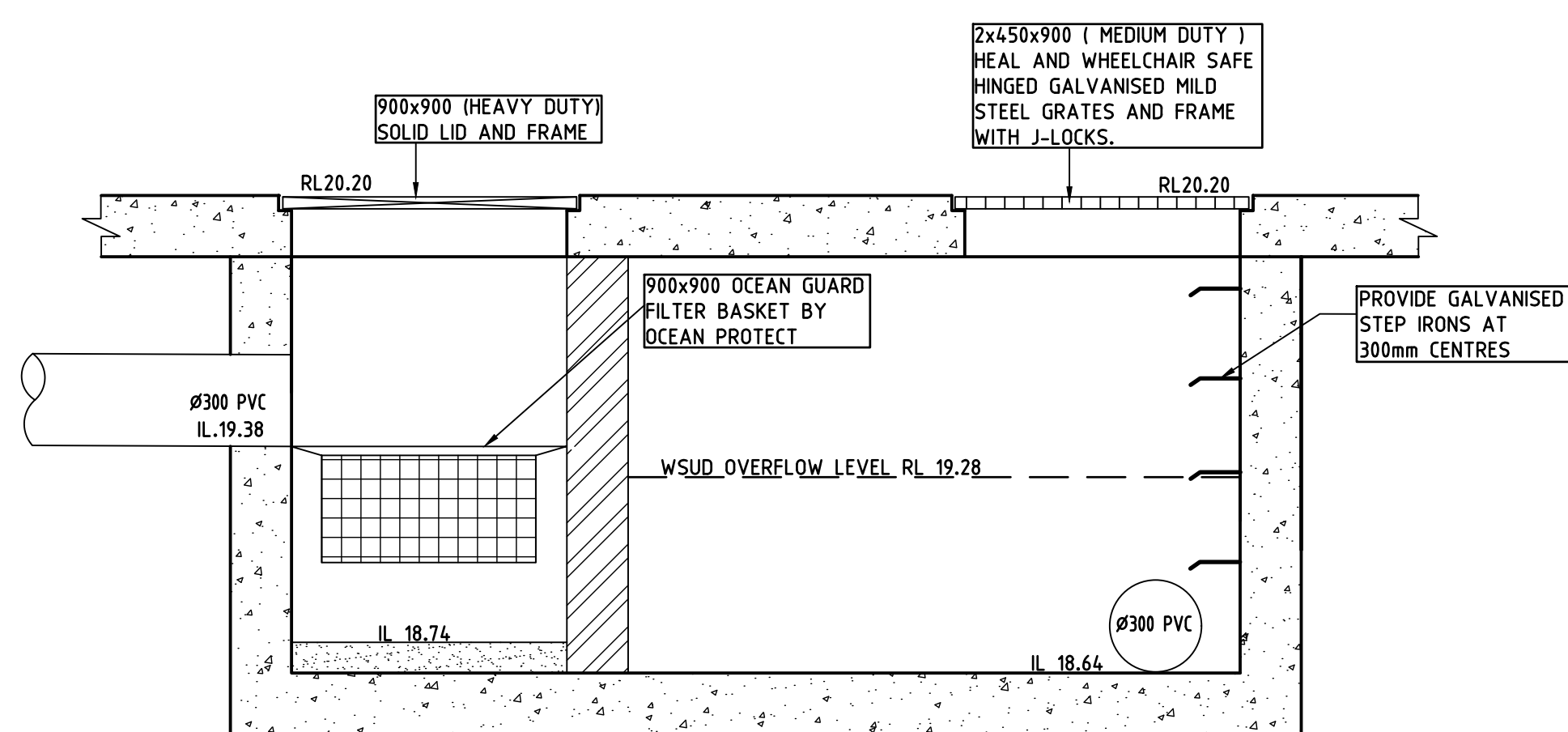
SECTION THROUGH OSD TANK B

SECTION A
SCALE 1:20



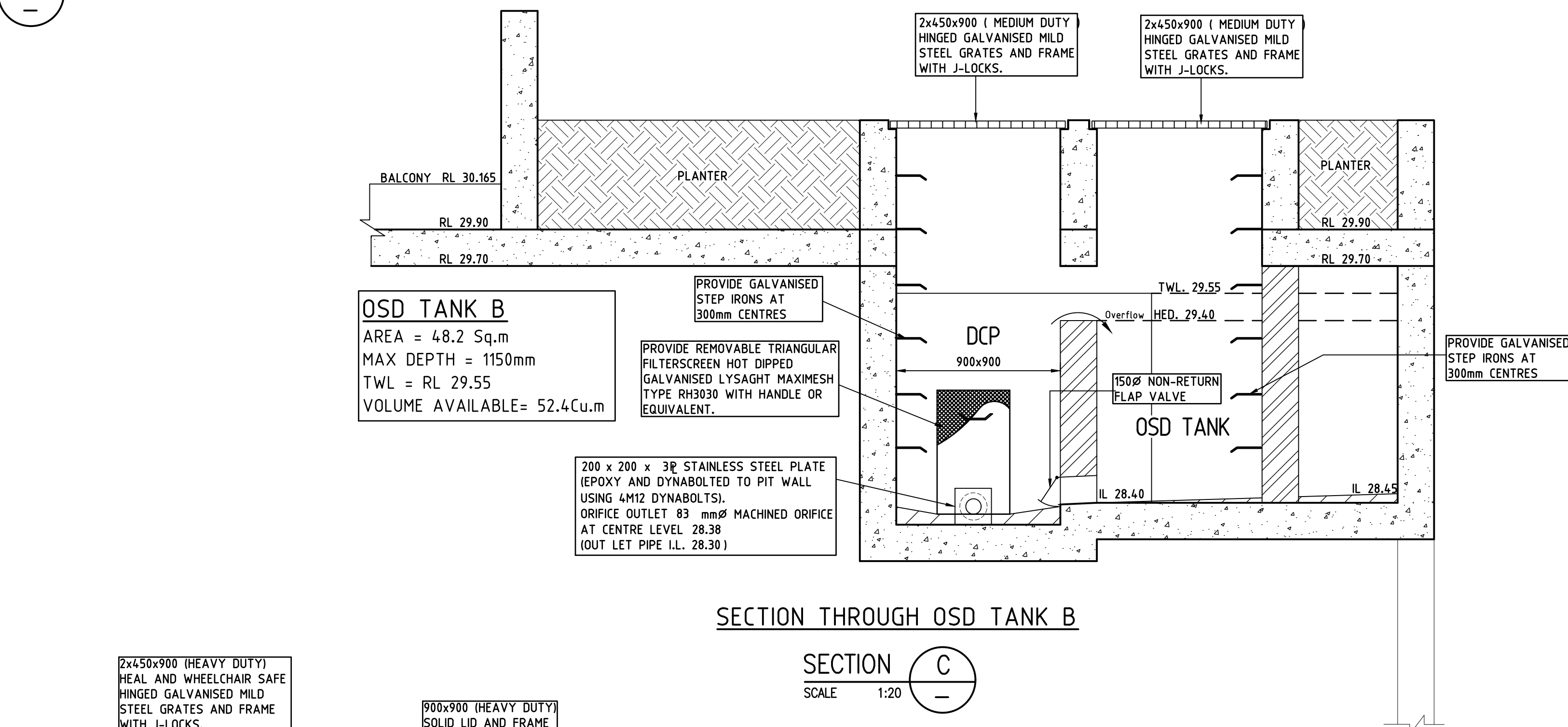
SECTION THROUGH OSD TANK B

SECTION B
SCALE 1:20



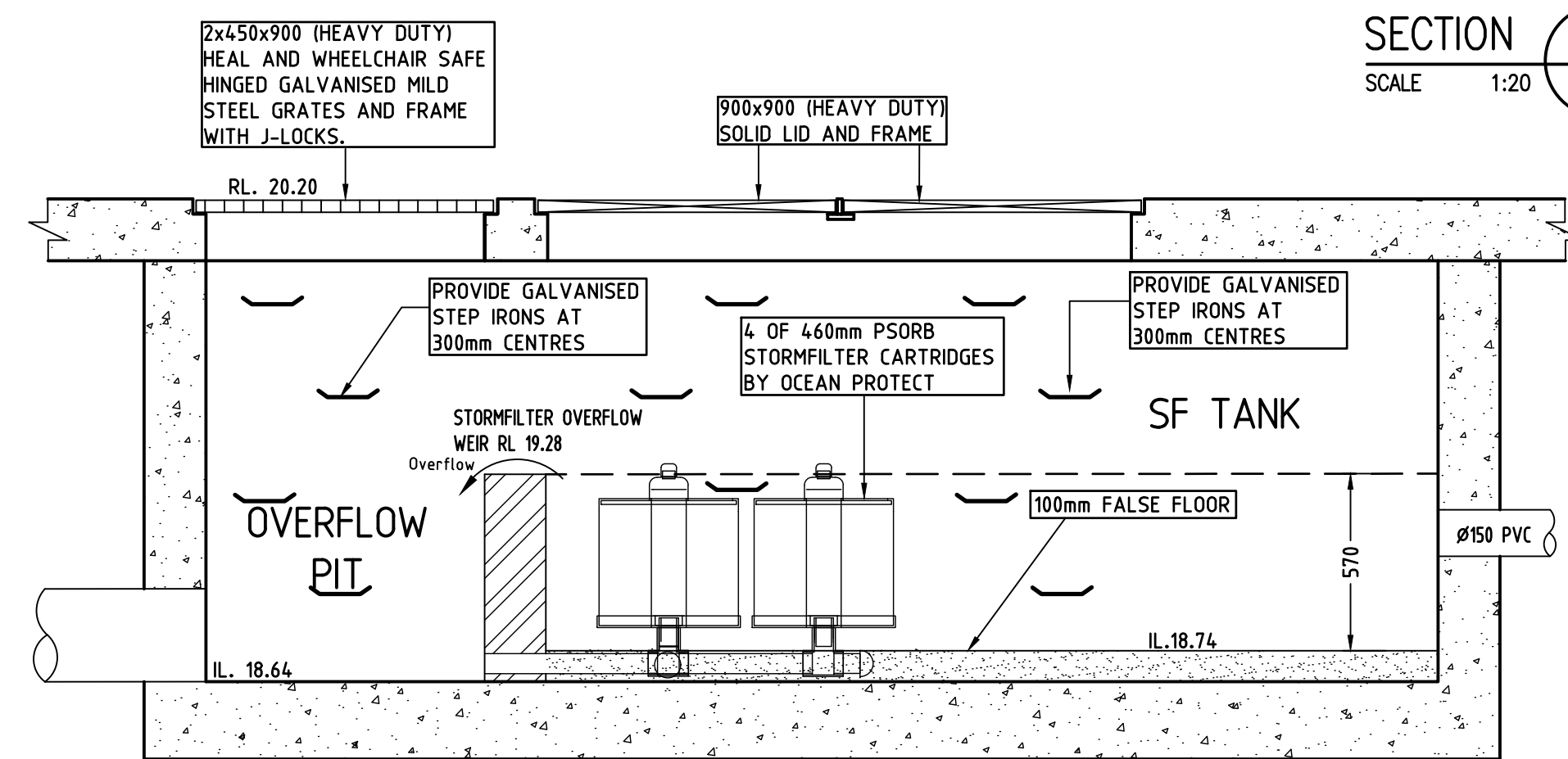
SECTION THROUGH WSUD B TANK

SECTION A
SCALE 1:20



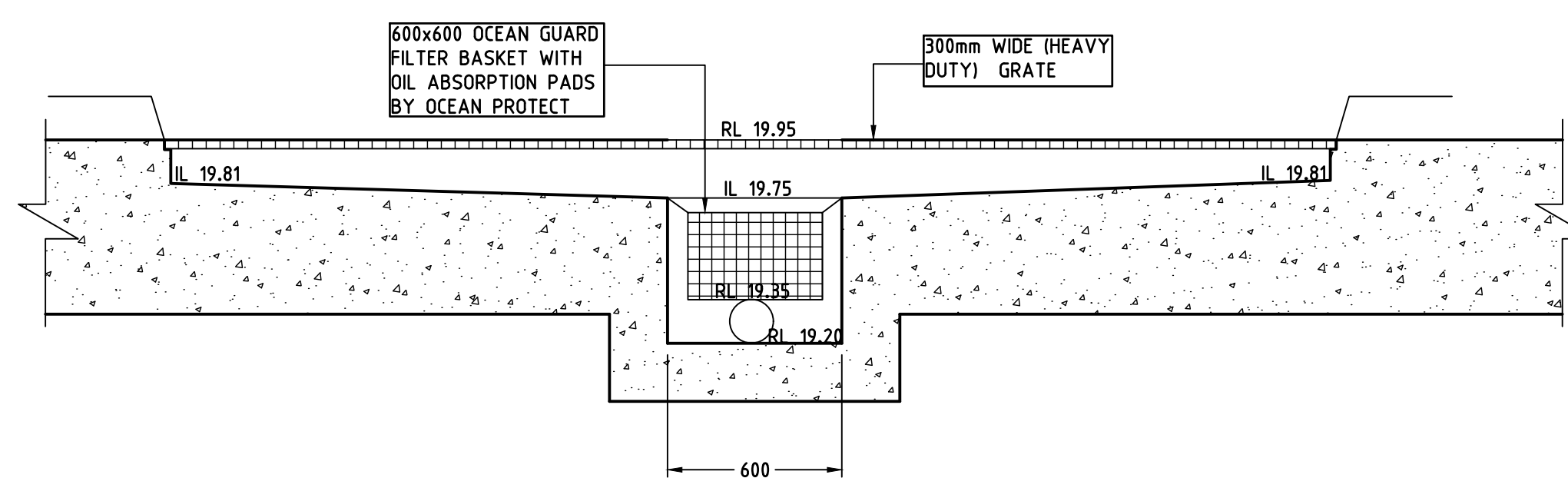
SECTION THROUGH OSD TANK B

SECTION C
SCALE 1:20



SECTION THROUGH WSUD B TANK

SECTION B
SCALE 1:20



DETAIL B - GRATED DRAIN WITH OCEAN GUARD PIT SECTION

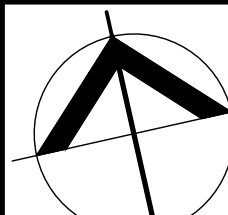
SCALE 1:20

ISSUE	DESCRIPTION	BY	DATE	ISSUE	DESCRIPTION	BY	DATE
1	ISSUED FOR DEVELOPMENT APPROVAL	A	22/12/20	2	ISSUED FOR DEVELOPMENT APPROVAL	A	22/12/20

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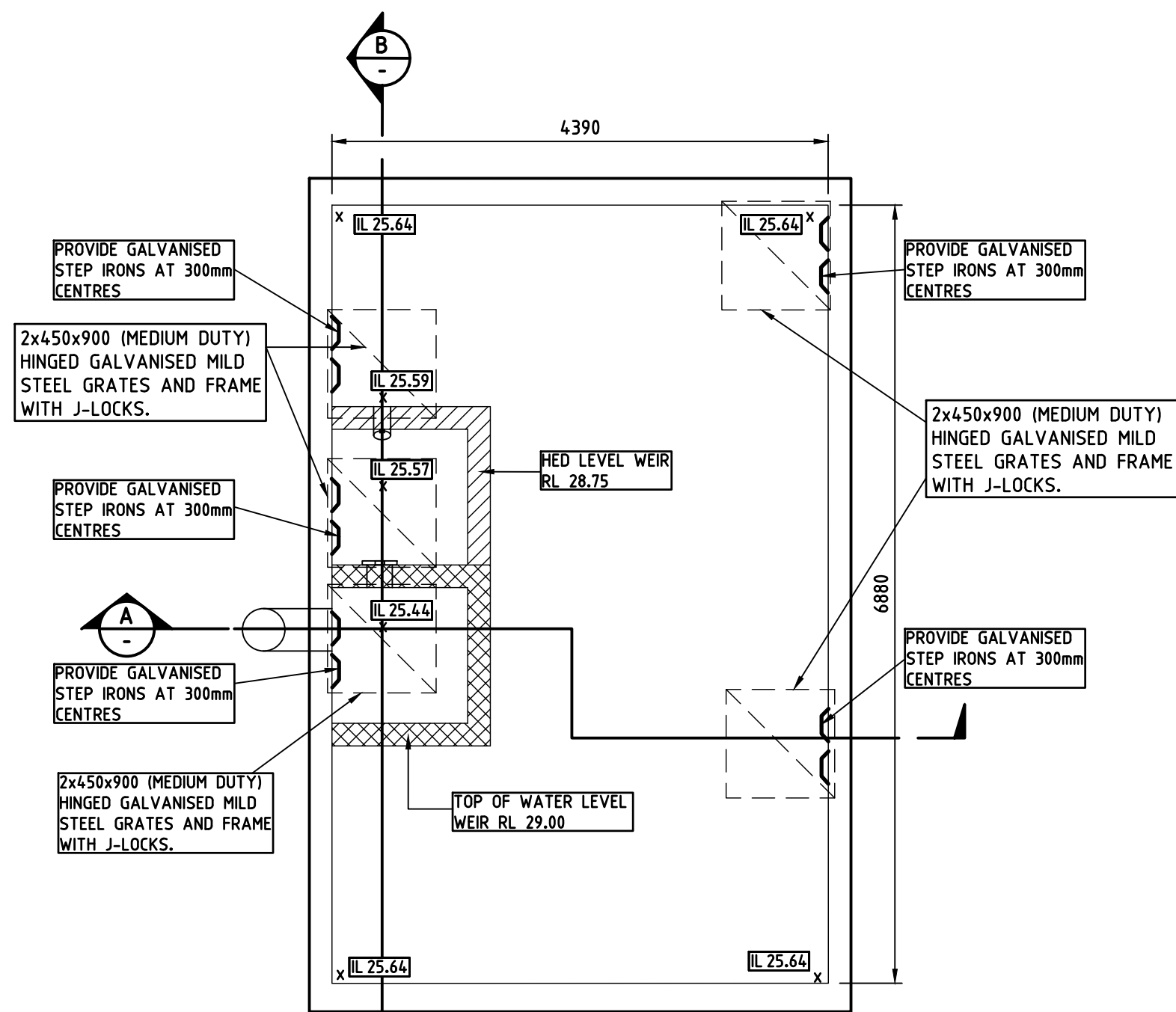
FOR COUNCIL / CONSTRUCTION CERTIFICATE ISSUE	DATE: 21.02.2020
CHECKED BY: <i>Steve Arraj</i>	DATE: 21.02.2020

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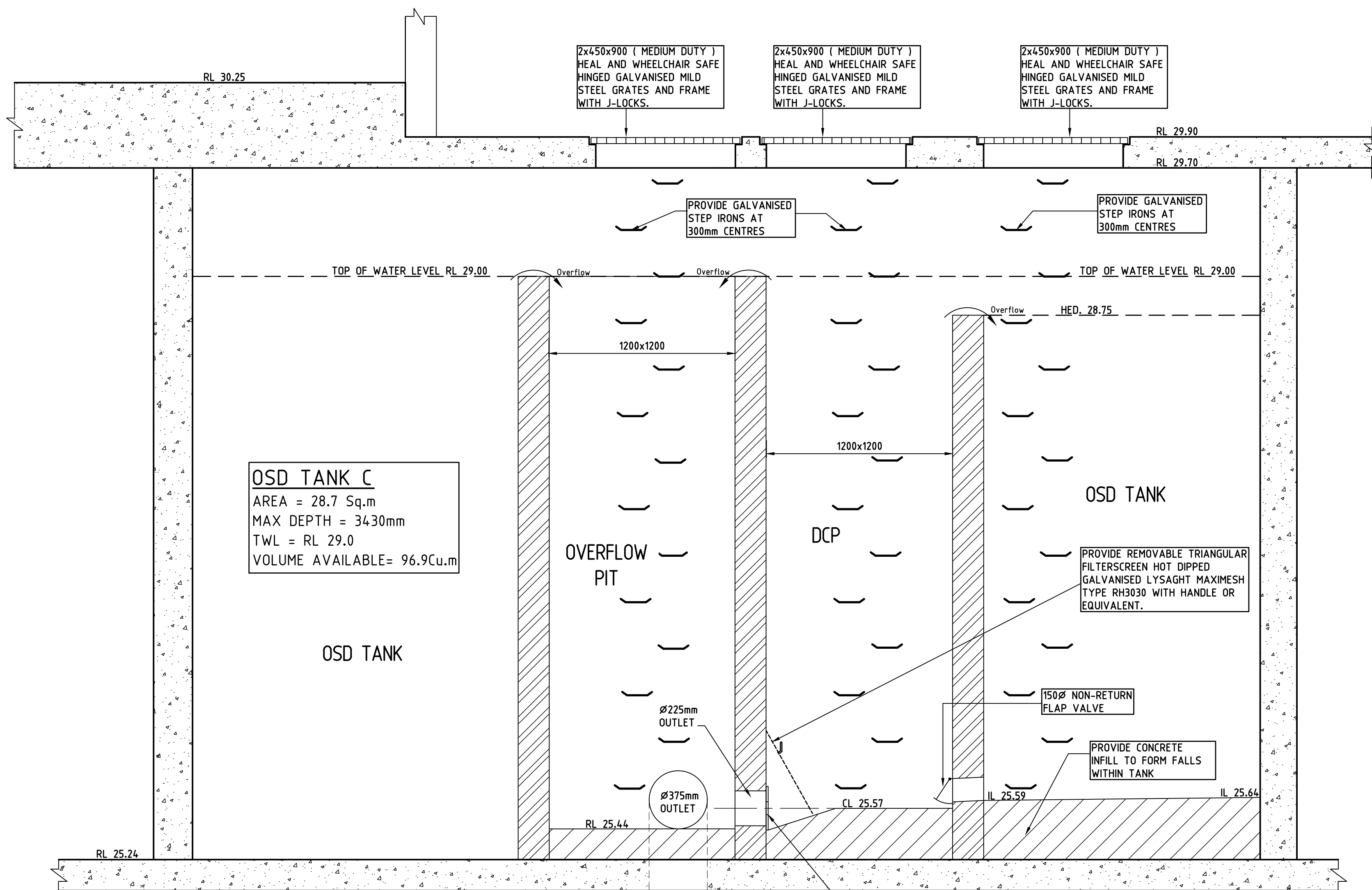
	DRAWING TITLE PROPOSED MIXED USE DEVELOPMENT 233-259 MERRYLANDS ROAD MERRYLANDS
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PROJECT STORMWATER CONCEPT DRAWING OSD TANK B AND WSUD TANK B PLAN AND SECTION DETAILS

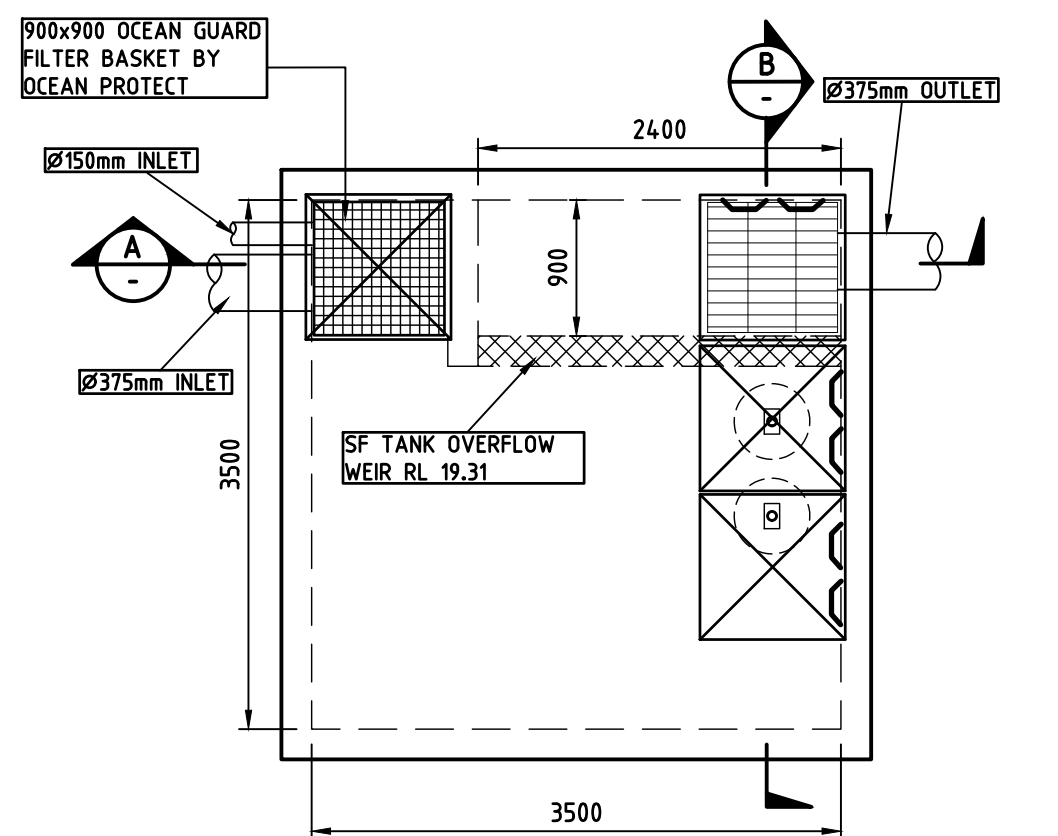
DESIGNED GB CHECKED SA DATUM AHD SCALE AS INDICATED	PROJECT NUMBER 2660-DA DRAWING NUMBER SW060	ISSUE A B1
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ON-SITE DETENTION TANK C PLAN
SCALE 1:50



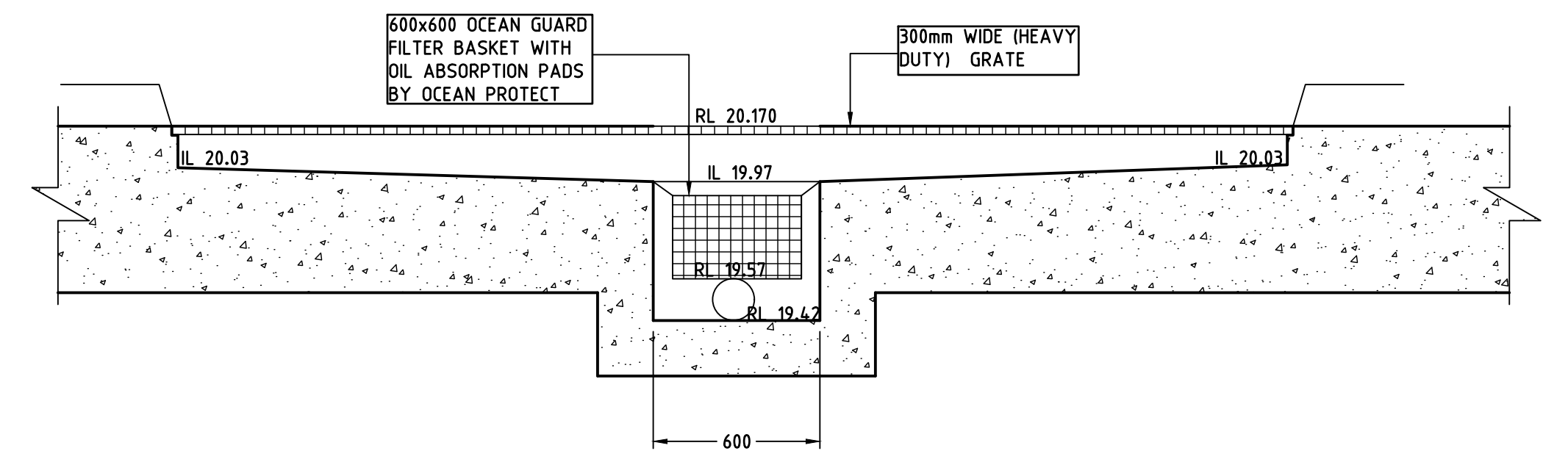
SECTION THROUGH OSD TANK C



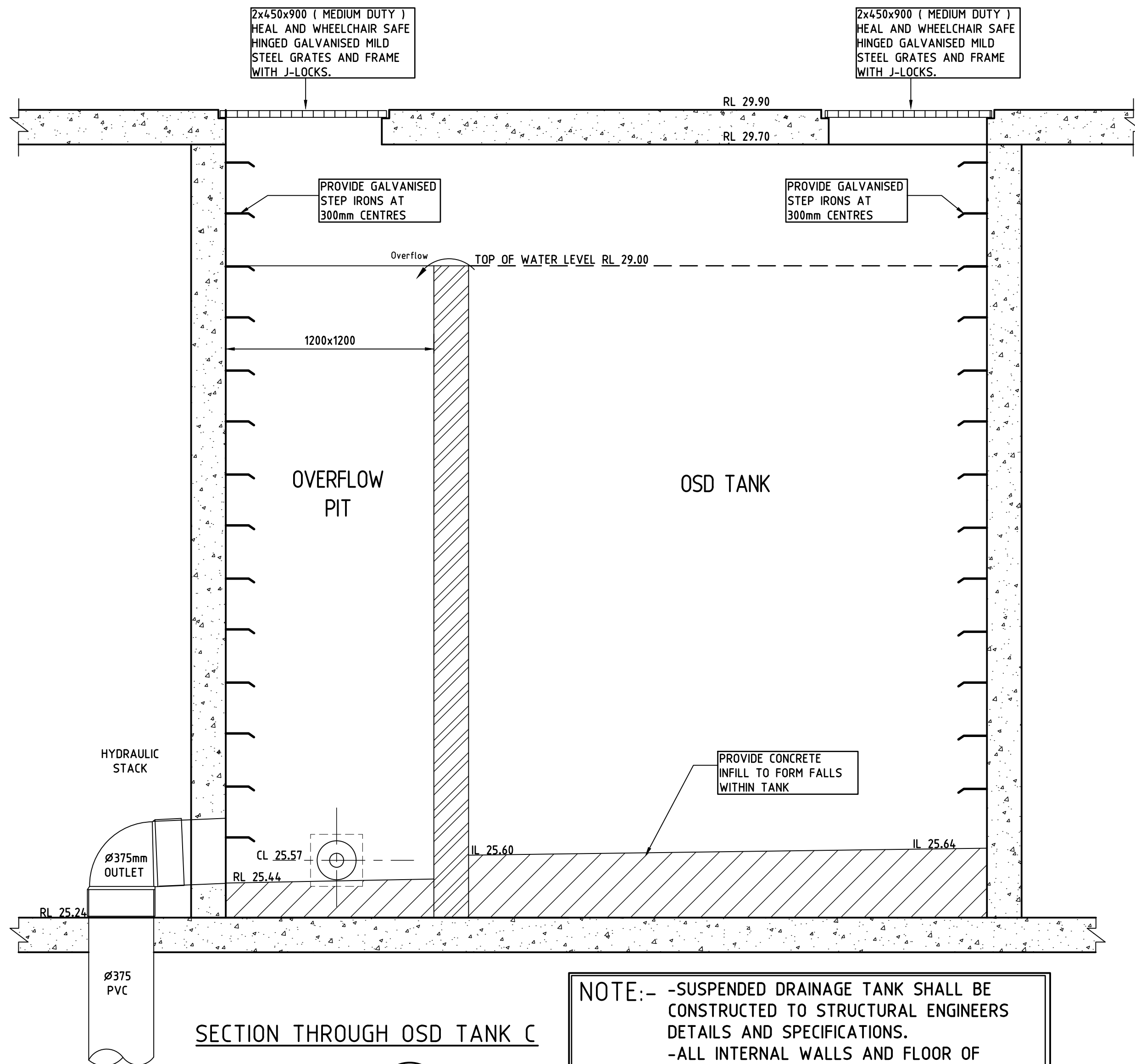
WSUD C TANK PLAN
SCALE 1:50

NOTE:- -SUSPENDED DRAINAGE TANK SHALL BE CONSTRUCTED TO STRUCTURAL ENGINEERS DETAILS AND SPECIFICATIONS.
-ALL INTERNAL WALLS AND FLOOR OF SUSPENDED TANK SHALL BE WATERPROOFED BY A WATERPROOFING SPECIALIST.

SECTION B
SCALE 1:20



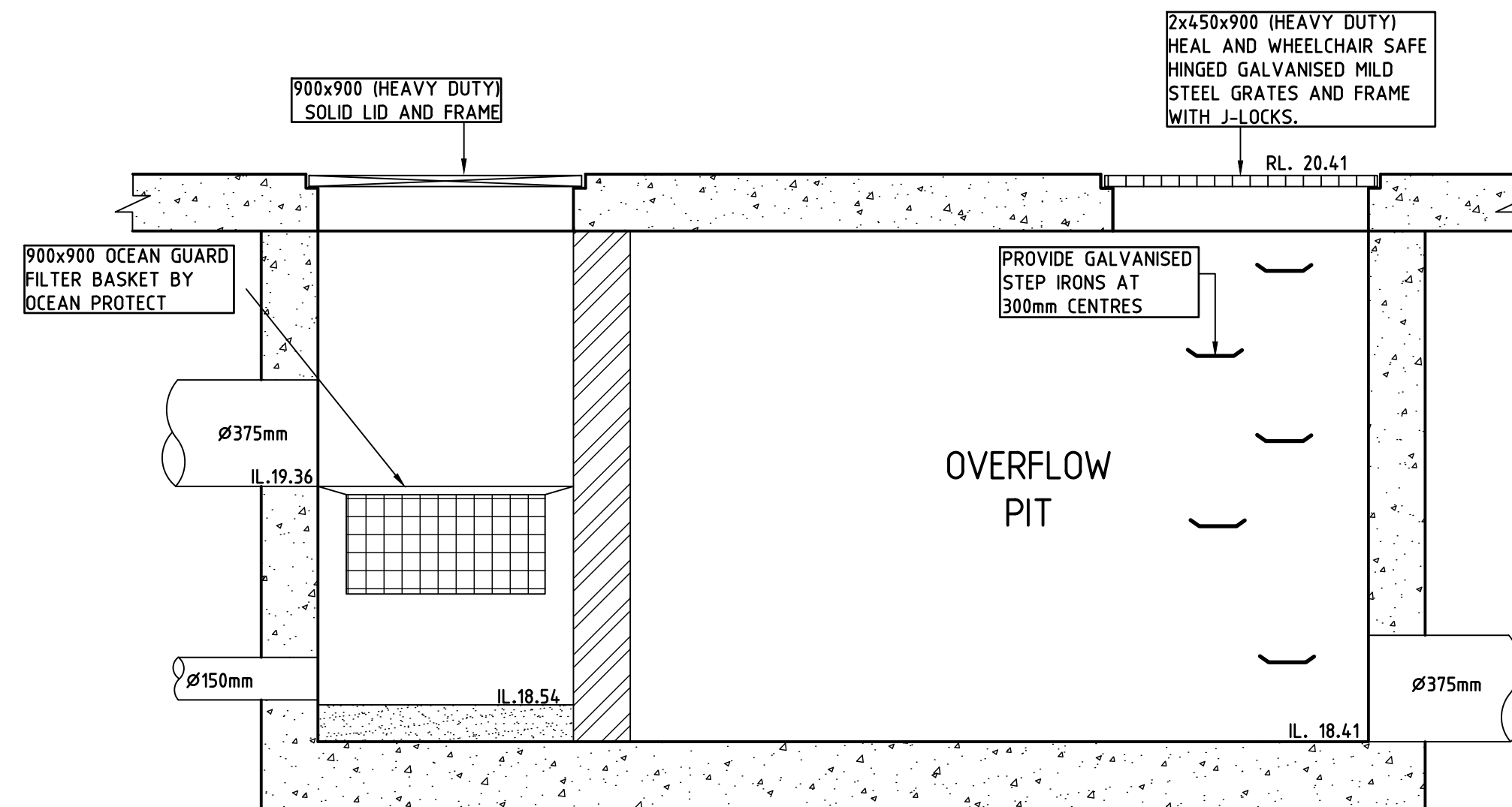
DETAIL C - GRATED DRAIN WITH OCEAN GUARD PIT SECTION
SCALE 1:20



SECTION THROUGH OSD TANK C

SECTION A
SCALE 1:20

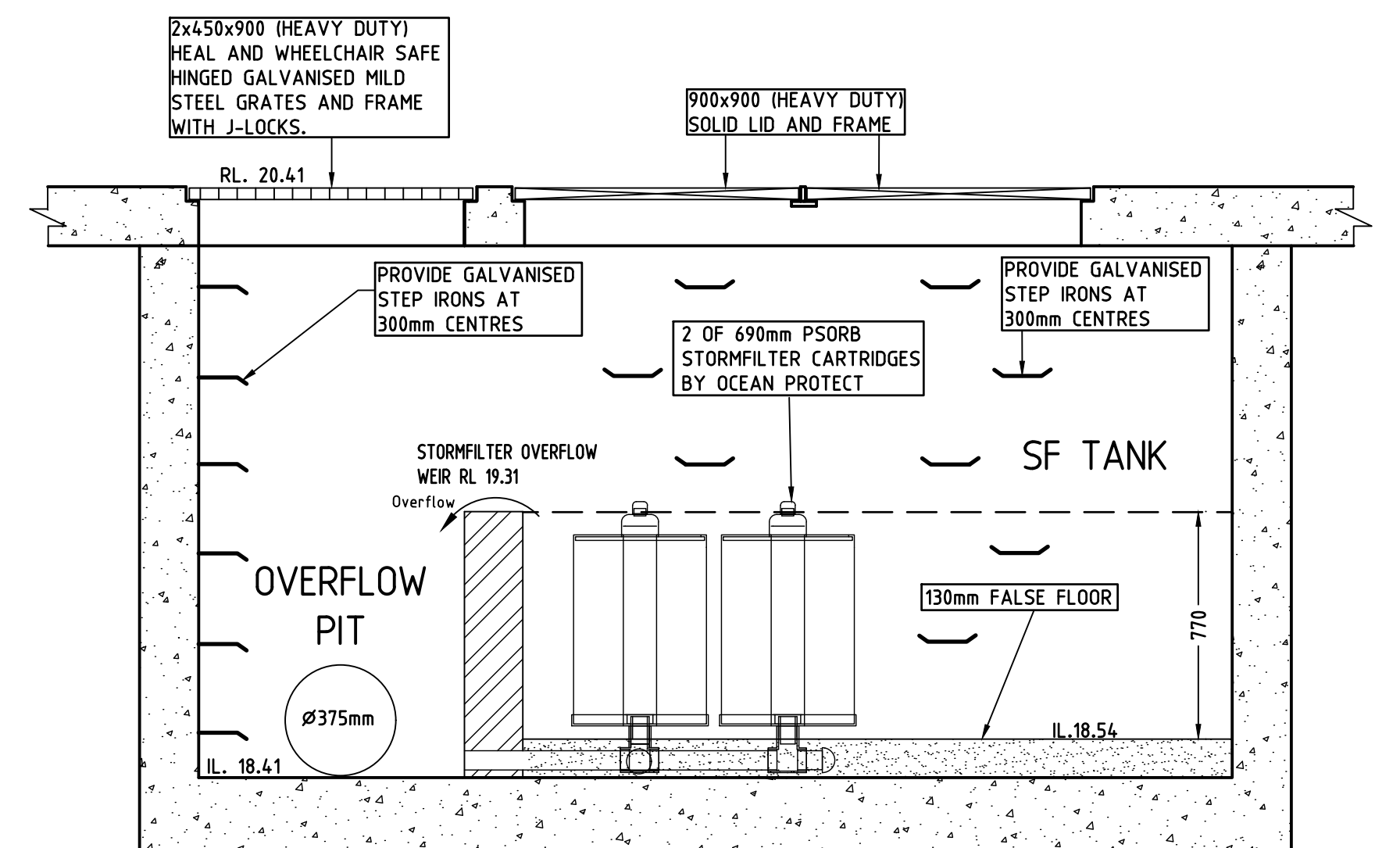
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-ALL INTERNAL WALLS AND FLOOR OF SUSPENDED TANK SHALL BE WATERPROOFED BY A WATERPROOFING SPECIALIST.



SECTION THROUGH WSUD C TANK

SECTION A
SCALE 1:20

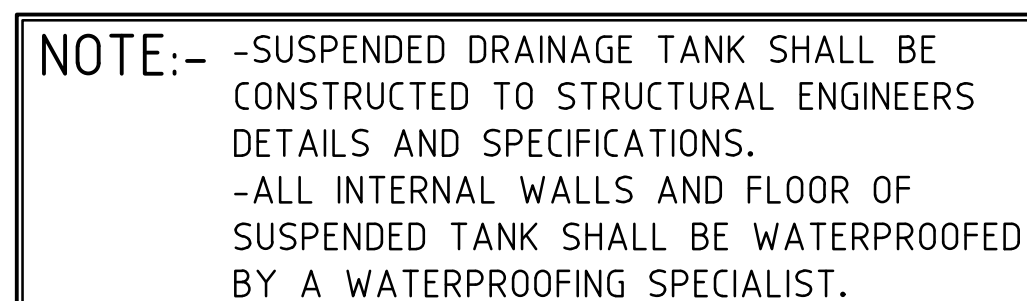
NOTE:- -SUSPENDED DRAINAGE TANK SHALL BE CONSTRUCTED TO STRUCTURAL ENGINEERS DETAILS AND SPECIFICATIONS.
-ALL INTERNAL WALLS AND FLOOR OF SUSPENDED TANK SHALL BE WATERPROOFED BY A WATERPROOFING SPECIALIST.



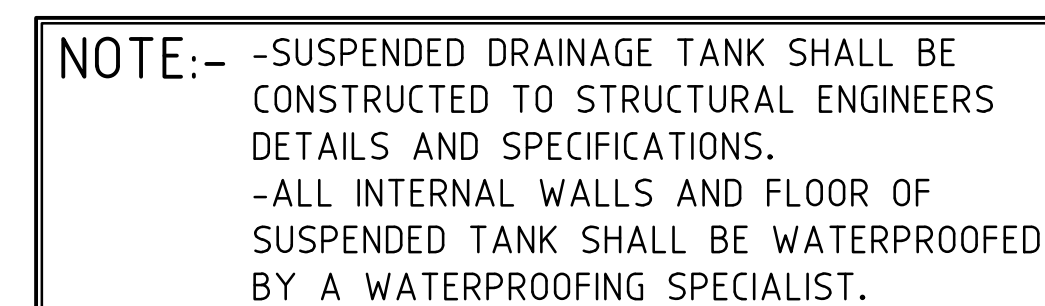
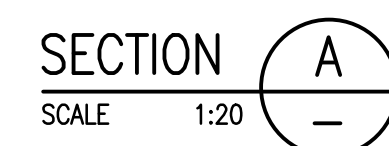
SECTION THROUGH WSUD C TANK

SECTION B
SCALE 1:20

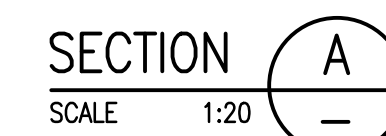
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SECTION THROUGH OSD TANK E



SECTION THROUGH WSUD E TANK

[illegible]