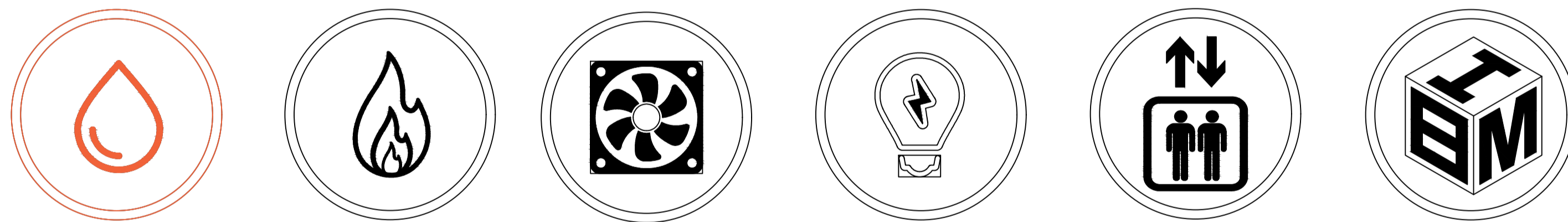




LOCATION MAP
COURTESY OF SIX MAP

DRAWING LIST

C000	COVER SHEET AND DRAWING LIST
C001	LEGEND OF SYMBOLS AND GENERAL NOTES
C100	BASEMENT 1 LAYOUT
C101	BASEMENT 1 DETAILS AND CALCULATION SHEET
C102	GROUND LEVEL LAYOUT
C103	EASEMENT DIVERSION PLAN
C104	ON-SITE DETENTION DETAILS AND CALCULATION SHEET
C105	CATCHMENT PLAN AND MUSIC RESULTS
C106	SEDIMENT & EROSION CONTROL PLAN & DETAILS
C400	MISCELLANEOUS DETAILS



PROJECT: RESIDENTIAL FLAT BUILDING - KENZA
ADDRESS: 54-58 BEACONSFIELD STREET, NEWPORT
CLIENT: RE.STREET
SERVICES: CIVIL SERVICES



Client
RE.STREET

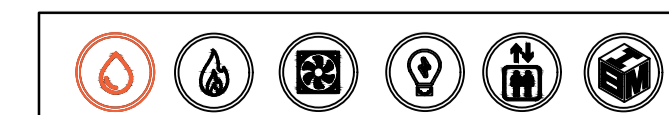
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No.	Description	Date	In
P1	DA ISSUE	03.11.23	E.H.
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Project
RESIDENTIAL FLAT BUILDING - KENZA
54-58 Beaconsfield Street, Newport

Drawing Title
**CIVIL SERVICES
COVER SHEET
AND DRAWING LIST**

Project No.	23050
Drawing No.	C000
Scale @ A1:	N.T.S.
Chk:	O.C.
Drm:	E.H.
Date:	NOVEMBER 2023
North	Revision P2



DA ISSUE

LEGEND - GRAVITY SERVICES

	SEWER DRAINAGE
	RAIN WATER REUSE
	STORMWATER DRAINAGE
	STORMWATER PUMPED RISING MAIN
	SUBSOIL DRAINAGE
	TRADE WASTE DRAINAGE
	GREASE SUCTION LINE
	SEWER RISING MAIN
	VENT
	CAST-IN PIPEWORK

LEGEND - PRESSURE SERVICES

	COLD WATER
	HOT WATER
	HOT WATER RETURN
	WARM WATER
	LIQUID PETROLEUM GAS
	NATURAL GAS
	RAINWATER REUSE
	REVERSE OSMOSIS
	FIRE HYDRANT
	FIRE SPRINKLER
	NON-POTABLE COLD WATER

LEGEND - EXISTING SERVICES

	EXISTING COLD WATER
	EXISTING HOT WATER
	EXISTING WATER MAIN
	EXISTING SEWER MAIN
	EXISTING TELESTRA
	EXISTING ELECTRICAL
	EXISTING GAS
	EXISTING OPTIC FIBER
	EXISTING STORMWATER DRAINAGE
	EXISTING FIRE HYDRANT
	REDUNDANT COLD WATER
	REDUNDANT HOT WATER
	REDUNDANT NATURAL GAS
	REDUNDANT SEWER DRAINAGE
	REDUNDANT STORMWATER DRAINAGE
	REDUNDANT FIRE HYDRANT

LEGEND - VALVE SYMBOLS

	PATH VALVE (MAIN ISOLATION)
	ISOLATION/STOP VALVE
	MONITOR VALVE
	NON RETURN VALVE
	REFLUX VALVE
	BALANCING VALVE
	SOLENOID VALVE
	GAS REGULATOR
	GAS ISOLATION VALVE
	GAS OVER PRESSURE SHUT-OFF
	RATIO VALVE
	REDUCTION PRESSURE ZONE DEVICE
	TEMPERATURE PRESSURE RELIEF
	STRAINER
	DUAL CHECK VALVE

LEGEND - SERVICE SYMBOLS

	BOOSTER SUCTION
	FIRE HYDRANT BOOSTER ASSEMBLY
	FIRE HYDRANT BOOSTER C/W DCV
	DUAL FH PILLAR
	FIRE HYDRANT LANDING VALVE
	TANK SUCTION POINT
	FIRE HOSE REEL
	CONTROL PANEL & ALARM -VISUALS
	MAIN COLD WATER METER C/W RPZD
	COLD/HW WATER METER (MONITOR)
	GAS METER TO MDL
	MAIN GAS METER C/W REGULATOR
	GAS REGULATOR
	CLEANING EYE
	INSPECTION OPENING
	CLEAROUT
	FW/RWO
	OVERFLOW GULLY
	CAP-OFF SERVICE
	PIPE CONTINUOUS
	PIPE BREAK SYMBOL
	PIPE RISER SYMBOL
	PIPE DROPPER SYMBOL
	PIPE TEE DROP SYMBOL
	PIPE TEE RISE SYMBOL
	TUNDISH
	HOSE TAP
	AAV
	IPMF
	PIPE FLOW DIRECTION
	BOUNDARY TRAP SYMBOL
	CONNECTION TO EXISTING SERVICES SYMBOL
	TEMPERING VALVE
	THERMOSTATIC MIXING VALVE
	DUAL SUBMERSIBLE PUMPS
	DUAL DOMESTIC/FHR BOOSTER
	SEWER PUMP OUT PIT
	BELOW GROUND GREASE ARRESTOR
	ABOVE GROUND GREASE ARRESTOR
	OIL SEPERATOR
	GRATED DRAIN
	SEWER MANHOLE
	ELECTRIC HOT WATER UNIT
	FLOW DIRECTION SERVICES DIAMETER
	FLOW DIRECTION
	SERVICES CONTINUATION DRAWING/SHEET NUMBER
	ROOF TAG AREA AND FLOW
	SURFACE INLET STORMWATER PIT
	JUNCTION STORMWATER PIT / SEALED PIT
	RAINWATER TANK
	PUMP CONTROL PANEL
	PUMP FAILURE WARNING SIGN
	1.8m LINTEL KIP
	3.0m LINTEL SAG KIP

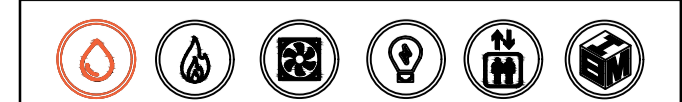
LEGEND - ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
B	BASIN
BO	BALCONY OUTLET
BT	BOUNDARY TRAP
BTWF	BUCKET TRAP FLOOR WASTE
BTH	BATH
BWU	BOILING WATER UNIT
CE	Ø300 CLEANING EYE
CI	CAST IRON
CIC	CAST IN COLUMN
CIS	CAST IN SLAB
CL	CENTER LINE
CO	CLEAROUT
CS	CLEANERS SINK
CW	COLD WATER
C/W	COMPLETE WITH
CV	CHAMBER VENT PIPE
DCDV	DOUBLE CHECK DETECTOR VALVE
DFH	DOUBLE FIRE HYDRANT
DTU	DRAINAGE TURN UP
DP	DOWNPIPE
DPS	DOWNPIPE SPREADER
DW	DISHWASHER
EX	EXISTING
FC	FIRE COLLAR
FH	FIRE HYDRANT
FHR	FIRE HOSE REEL
FW	FLOOR WASTE
FW1	PLANTER GRATE Ø150
FW2	FLOOR GRATE Ø150
FW3	FLOOR GRATE 200x200
FW4	FLOOR GRATE 300x300
FW5	SUSPENDED PLANTER BOX
G	GAS
GTD	GRATED TRENCH DRAIN
HD	HEAVY DUTY
HL	HIGH LEVEL
HH	HEAD HEIGHT
HP	HIGH POINT
HT	HOSE TAP
HW	HOT WATER
HWR	HOT WATER RETURN
IL	INVERT LEVEL
IO	INSPECTION OPENING
IPMF	INDUCT PIPE MICA FLAP
IRR	IRRIGATION
KIP	KERB INLET PIT
KS	KITCHEN SINK
LL	LOW LEVEL
m	METRES
mm	MILLIMETERS
No.	NUMBER
OF	OVERFLOW
OF1	Ø150 OVERFLOW
ORG	OVERFLOW RELIEF GULLY
OSD	ON-SITE DETENTION
PBO	PLANTER BOX OUTLET
PG	PRESSURE GAUGE
RCP	REINFORCED CONCRETE PIPE
REV	REVISION
RH	RAIN HEAD
RHT	RECYCLE HOSE TAP
RL	REDUCED LEVEL
RPZD	REDUCED PRESSURE ZONE DEVICE
RV	RELIEF VENT
RWO	RAINWATER OUTLET
RWR	RAINWATER RE-USE
RWT	RAINWATER TANK
SA	SUDS ARRESTOR
SD	SANITARY DRAINAGE
SDP	SYPHONIC DOWNPIPE
SDO	SPOON DRAIN OUTLET
SHR	SHOWER
SK	SINK
S/S	STAINLESS STEEL
SMH	SEWER MANHOLE
SQ	SQUARE
SRM	SEWER RISING MAIN
SW	STORMWATER
SWRM	STORMWATER RISING MAIN
SWP	STORMWATER PIT
SWOGP	STORMWATER OCEANGUARD PIT
SY	SYPHONIC DRAINAGE
SS	SEWER STACK
SV	STOP VALVE
TD	TUNDISH
TTD	TRAPPED TUNDISH
TW	TRADE WASTE
TWL	TOP WATER LEVEL
TWV	TRADE WASTE VENT
Ur	URINAL
VD	VERTICAL DROP
VP	VENT PIPE
VB	VACUUM BREAKER
WC	WATER CLOSET
WW	WARM WATER
WSUD	WATER SENSITIVE URBAN DESIGN
WWR	WARM WATER RETURN

GENERAL NOTES

- ALL LINES ARE TO BE Ø100 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 DP's 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 Ø50mm PVC WRAPPED IN 20mm ABLEFLEX CAST IN SLAB AT MIN 1.0% SLOPE. 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
- THE OSD BASIN / TANK IS TO BE BUILT TO THE CORRECT LEVELS & SIZE AS PER THIS DESIGN. ANY VARIATIONS ARE TO BE DONE UNDER CONSULTATION FROM OUR OFFICE ONLY. ANY AMENDMENTS WITHOUT OUR APPROVAL WOULD RESULT IN ADDITIONAL FEES FOR REDESIGN AT OC STAGE OR IF A SOLUTION CANNOT BE FOUND, RECONSTRUCTION IS REQUIRED UNDER THE CONTRACTOR'S EXPENSES.

No.	Description	Date	In
P1	DA ISSUE	03.11.23	E.H.



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

STANDARD PUMP OUT DESIGN

NOTES

- THE PUMP OUT SYSTEM SHALL BE DESIGN TO BE OPERATED IN THE FOLLOWING MANNER:
- 1 - THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATELY TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.
 - 2 - A FLOAT SHALL BE PROVIDED TO ENSURE OF THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS AT THE MINIMUM WATER LEVEL. THE SAME FLOAT SHALL BE SET TO TURN ONE OF THE PUMPS ON UPON THE WATER LEVEL IN THE TANK RISING TO APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL. THE PUMP SHALL OPERATE UNTIL THE TANK IS DRAINED TO THE MINIMUM WATER LEVEL.
 - 3 - A SECOND FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHALL START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.
 - 4 - 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.
 - 5 - A CONFINED SPACE DANGER SIGN SHALL BE PROVIDED AT ALL ACCESS POINT TO THE PUMP-OUT STORAGE TANK IN ACCORDANCE WITH THE UPPER PARRAMATA RIVER CATCHMENT TRUST OSD HANDBOOK.

BASEMENT PUMP OUT FAILURE WARNING SIGN

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

COLOURS:
 "WARNING" = RED
 BORDER AND OTHER LETTERING = BLACK



CONFINED SPACE DANGER SIGN

A) A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANK/S CONFINED SPACE.

B) MINIMUM DIMENSIONS OF THE SIGN - 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) - 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES)

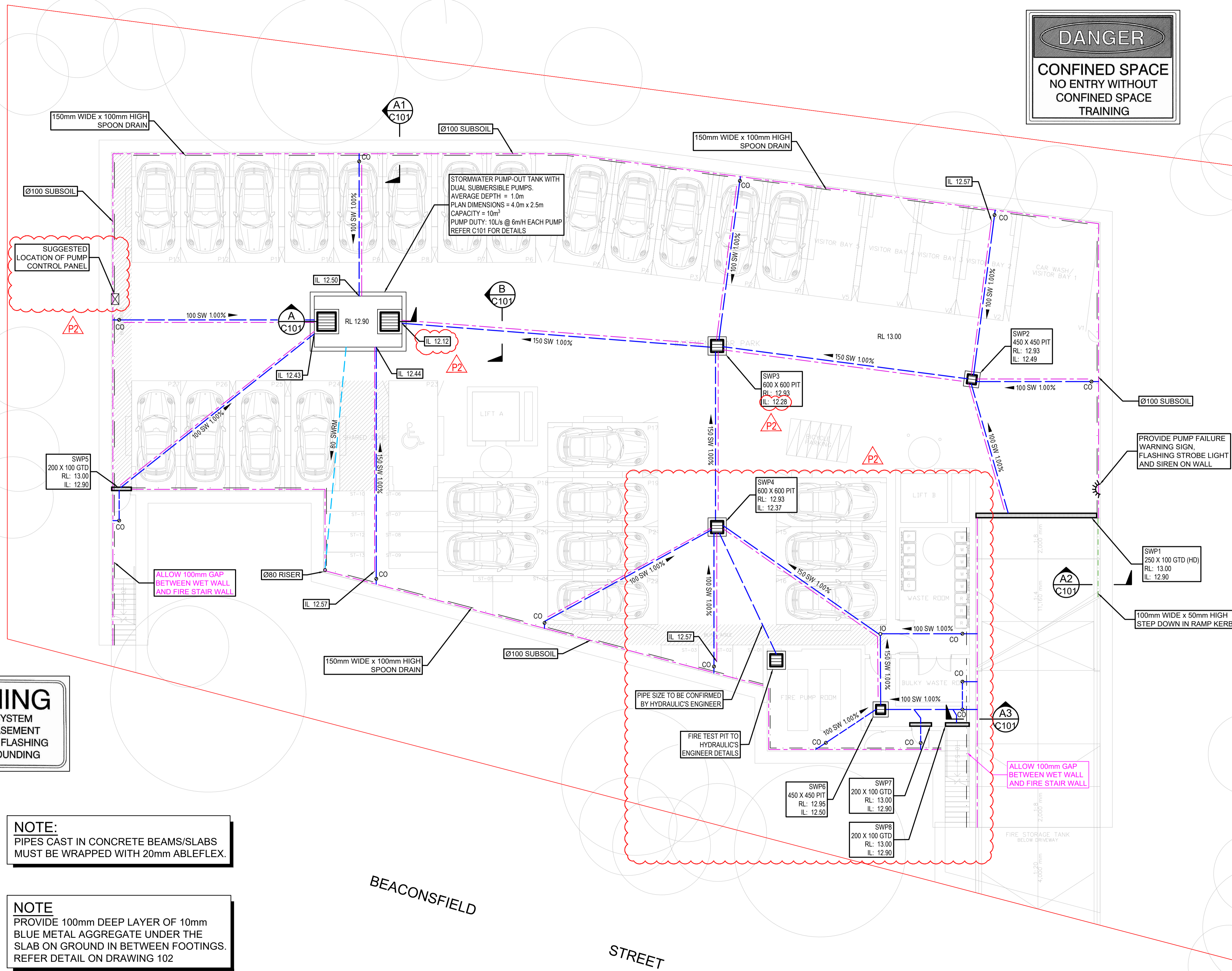
C) THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINUM OR POLYPROPYLENE

D) SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE SIGN

COLOURS:
 "DANGER" & BACKGROUND = WHITE
 ELLIPTICAL AREA = RED
 RECTANGLE CONTAINING ELLIPSE = BLACK
 BORDER AND OTHER LETTERING = BLACK

NOTE:
 PIPES CAST IN CONCRETE BEAMS/SLABS MUST BE WRAPPED WITH 20mm ABLEFLEX.

NOTE
 PROVIDE 100mm DEEP LAYER OF 10mm BLUE METAL AGGREGATE UNDER THE SLAB ON GROUND IN BETWEEN FOOTINGS. REFER DETAIL ON DRAWING 102



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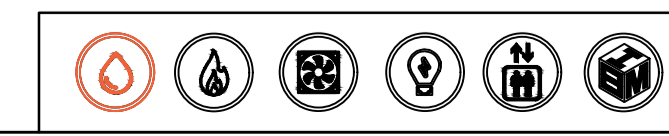
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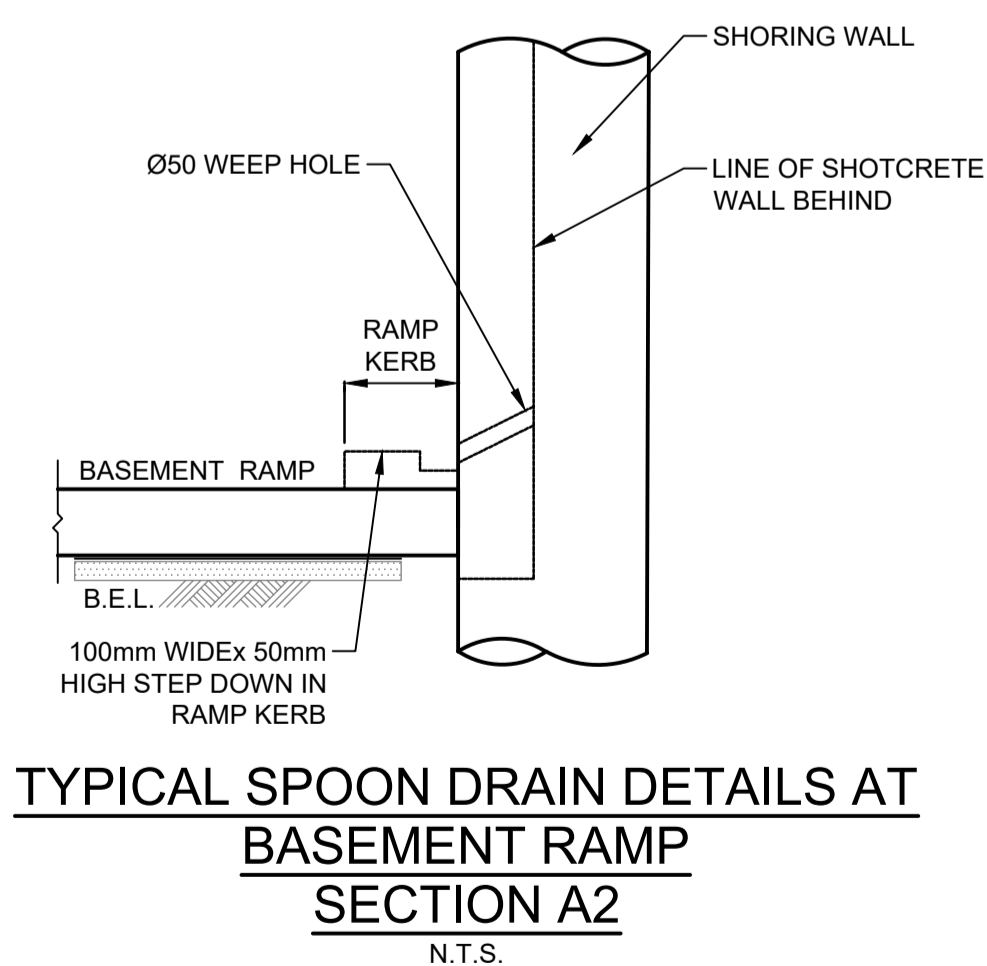
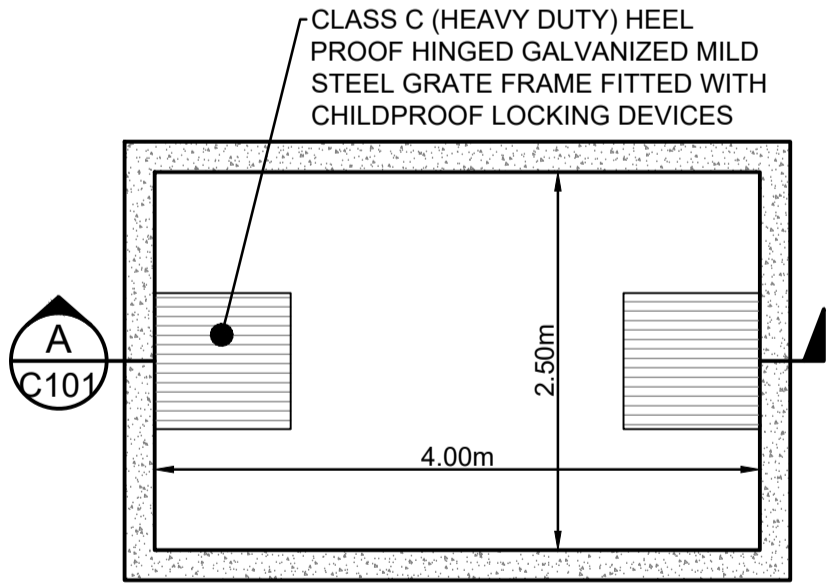
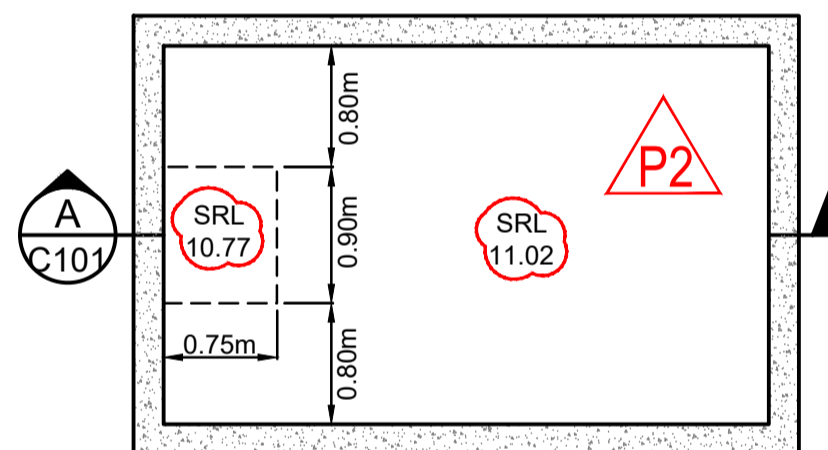
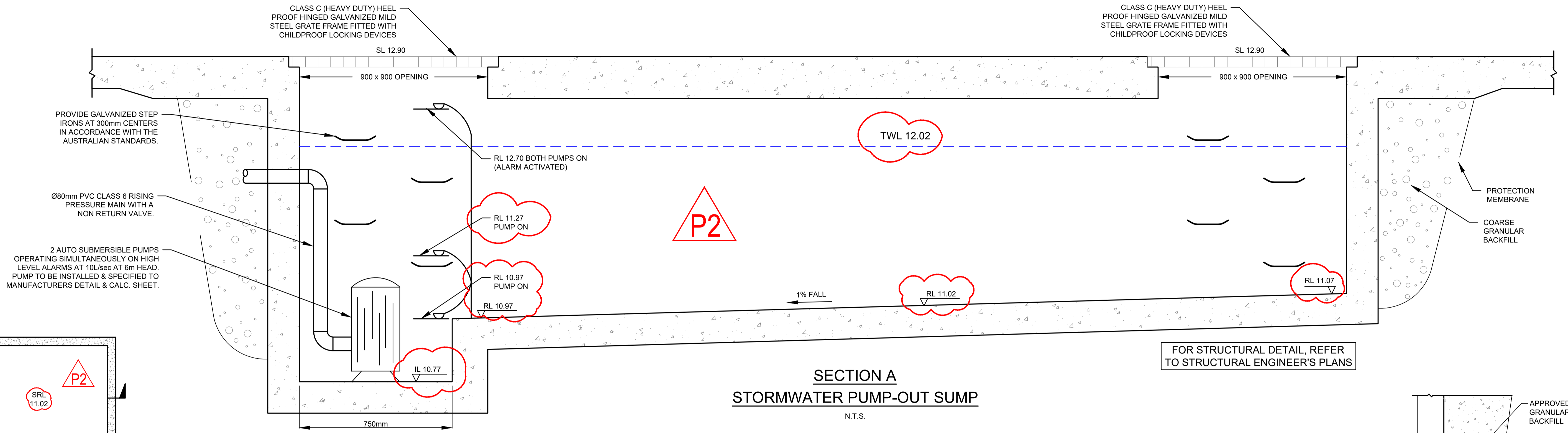
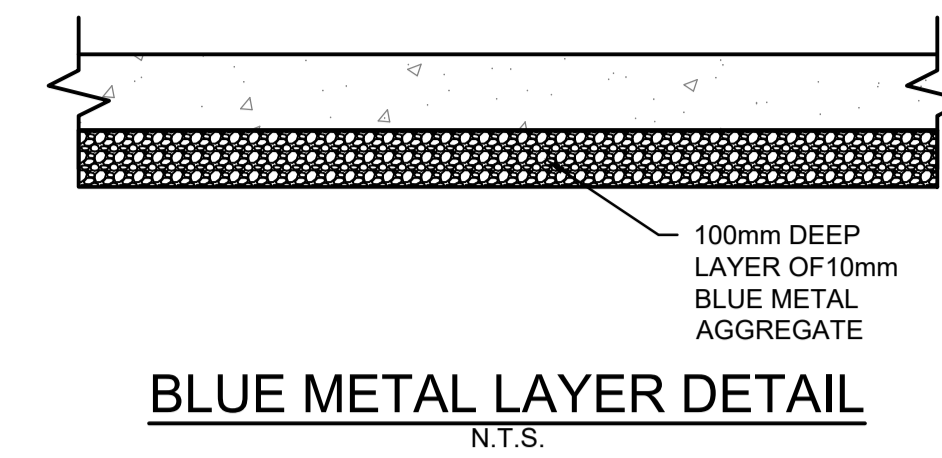
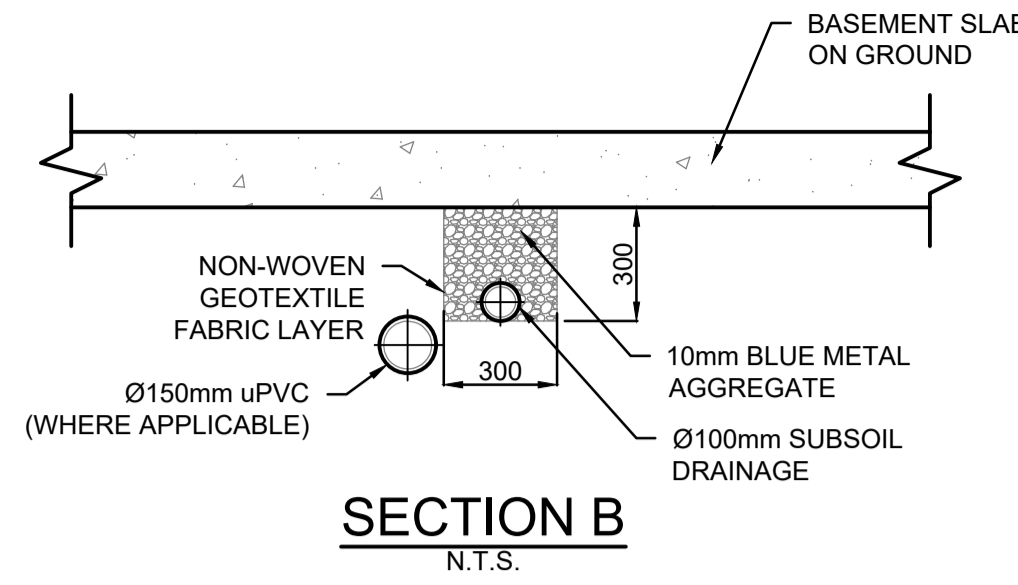
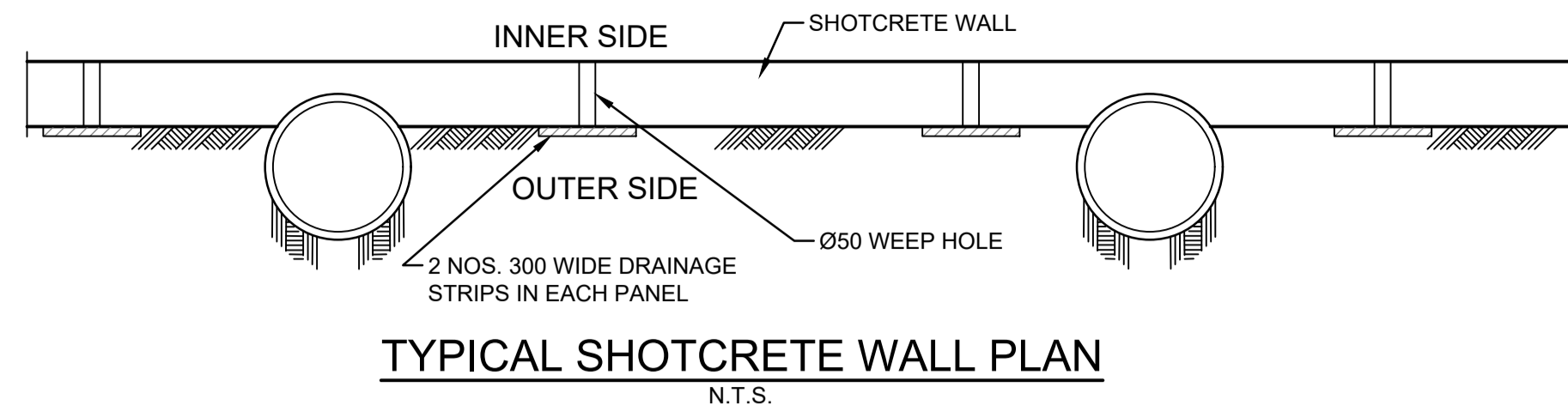
Project
RESIDENTIAL FLAT BUILDING - KENZA
 54-58 Beaconsfield Street, Newport

Drawing Title
CIVIL SERVICES
 BASEMENT 1
 LAYOUT

Project No. 23050
 Drawing No. **C100**
 Scale @ A1: 1:100 North
 Chk: O.C.
 Dm: E.H.
 Date: NOVEMBER 2023
 Revision
 P2



DA ISSUE



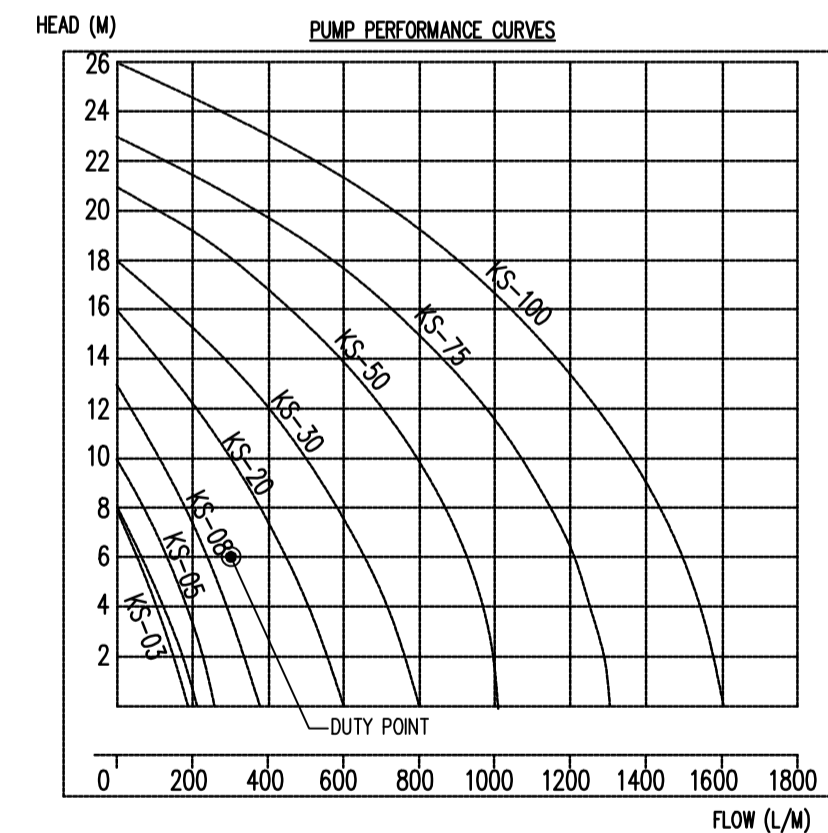
PUMP STORAGE VOLUME CALCULATION

AREA DRAINING TO SUMP= 53.00 m²

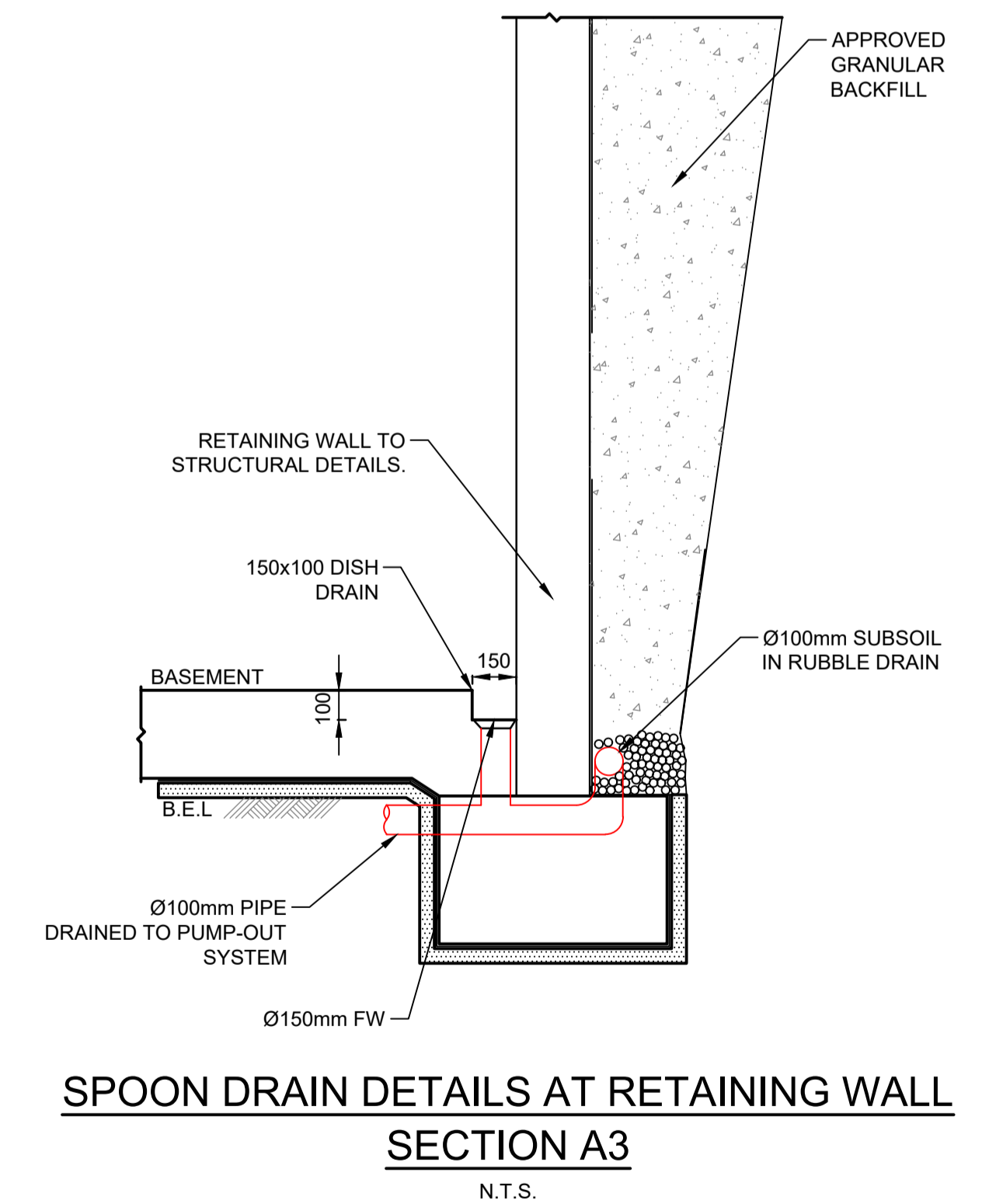
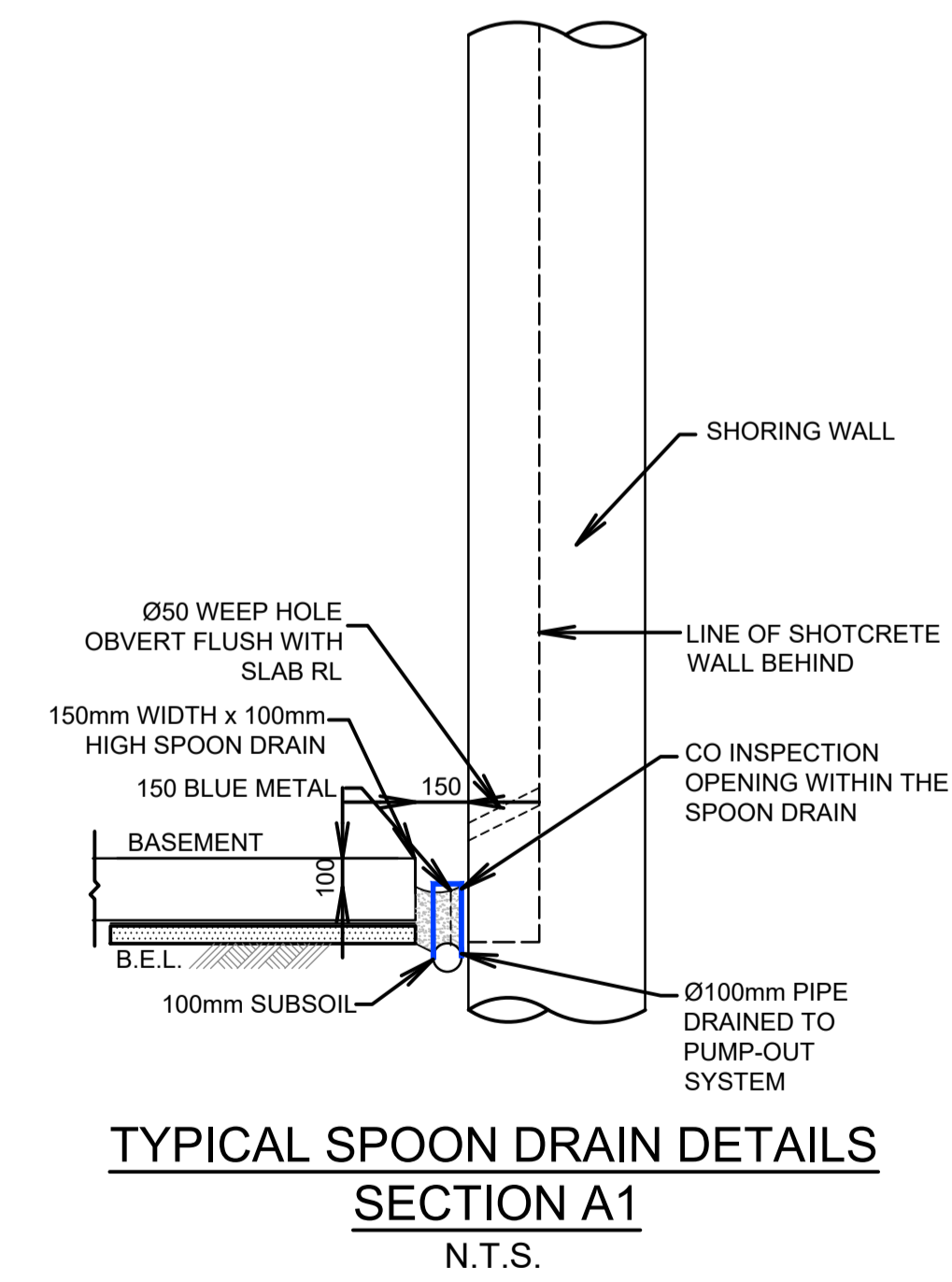
SUMP SIZE BASED ON 100 YEAR 2 HR STORM, I= 59.4 mm/hr,
 $Q=CIA/3600 = 1 \times 59.4 \times 53.0/3600 = 0.87 \text{ L/sec}$
 VOLUME REQUIRED = $0.87 \times (2 \times 60 \times 60) = 6264 \text{ L} = 6.26 \text{ m}^3$
 STORAGE PROVIDED $4.0 \times 2.5 \times 1.0 = 10.00 \text{ m}^3$

PUMP OUT RATE BASED ON 100YR 5MIN STORM, I=260 mm/hr
 (MIN RATE REQUIRED AS PER AS3500.3 IS 10 L/sec)
 $Q=CIA/3600 = 1 \times 260 \times 53.0/3600 = 3.82 \text{ L/sec}$

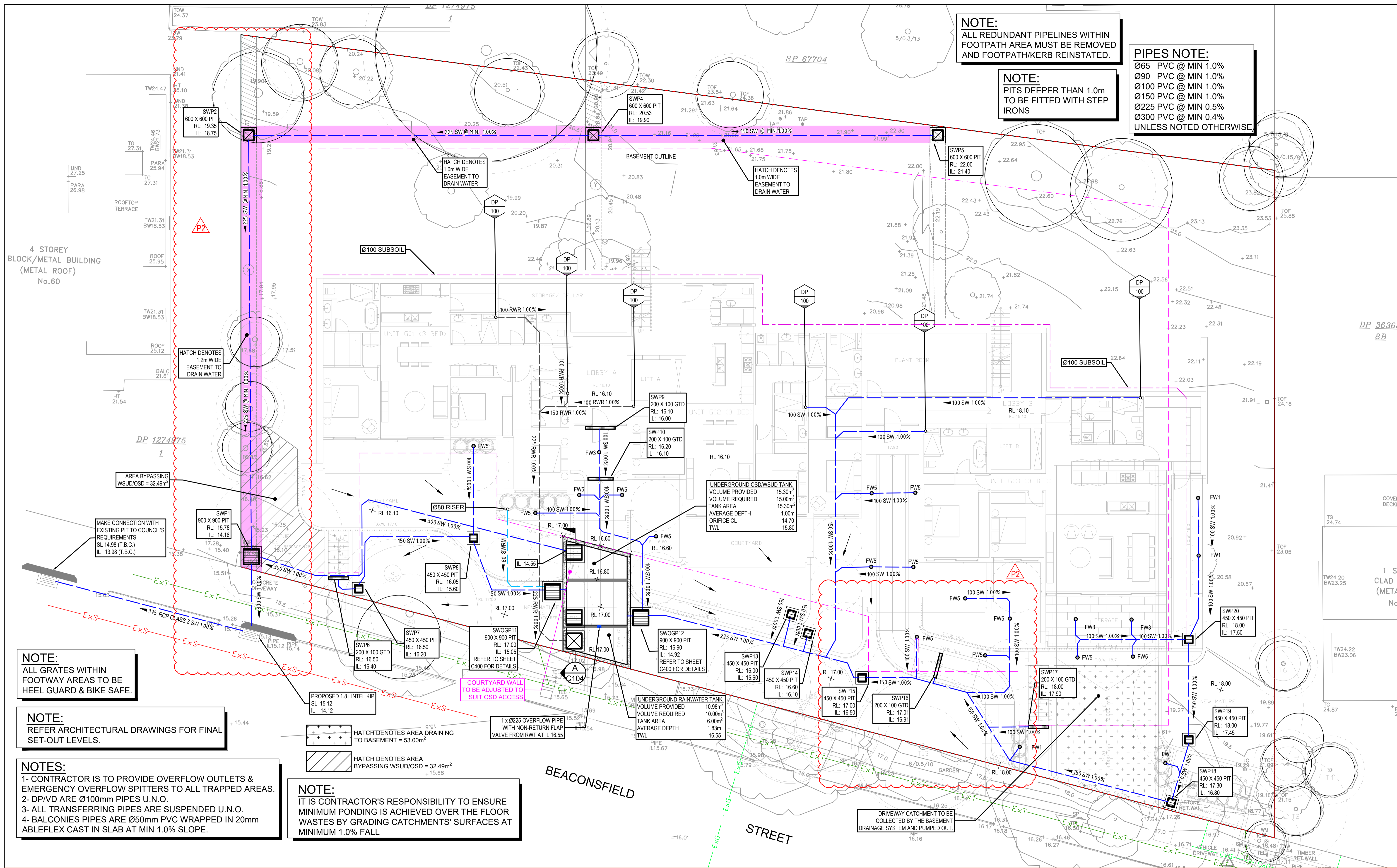
DUAL KS-20 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMP TO OPERATE SIMULTANEOUSLY ON HIGH LEVEL WITH ALARM AT 10 L/sec AT 6m HEAD



Type	Output		Outlet		Rated Head Capacity		Maximum Capacity		Weigh Kg	Dimension		
	HP	kW	mm	Inch	M	LPM	M	LPM		L(mm)	W(mm)	H(mm)
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230	156	375
KS-08	1	0.75	50	2"	6	240	13	380	21	290	180	425
KS-20	2	1.5	80	3"	10	300	16	600	31	278	182	475
KS-30	3	2.2	80	3"	10	500	18	800	42	390	250	450
KS-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530
KS-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590
KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610



No.	Description	Date	In
P1	DA ISSUE	03.11.23	E.H.
P2	DA ISSUE	13.11.23	E.H.



NOTE:
ALL REDUNDANT PIPELINES WITHIN FOOTPATH AREA MUST BE REMOVED AND FOOTPATH/KERB REINSTATED.

NOTE:
PITS DEEPER THAN 1.0m TO BE FITTED WITH STEP IRONS

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

4 STOREY BLOCK/METAL BUILDING (METAL ROOF) No.60

UNDERGROUND OSD/USD TANK
 VOLUME PROVIDED 15.30m³
 VOLUME REQUIRED 15.00m³
 TANK AREA 15.30m²
 AVERAGE DEPTH 1.00m
 ORIFICE CL 14.70
 TWL 15.80

UNDERGROUND RAINWATER TANK
 VOLUME PROVIDED 10.98m³
 VOLUME REQUIRED 10.00m³
 TANK AREA 6.00m²
 AVERAGE DEPTH 1.83m
 TWL 16.55

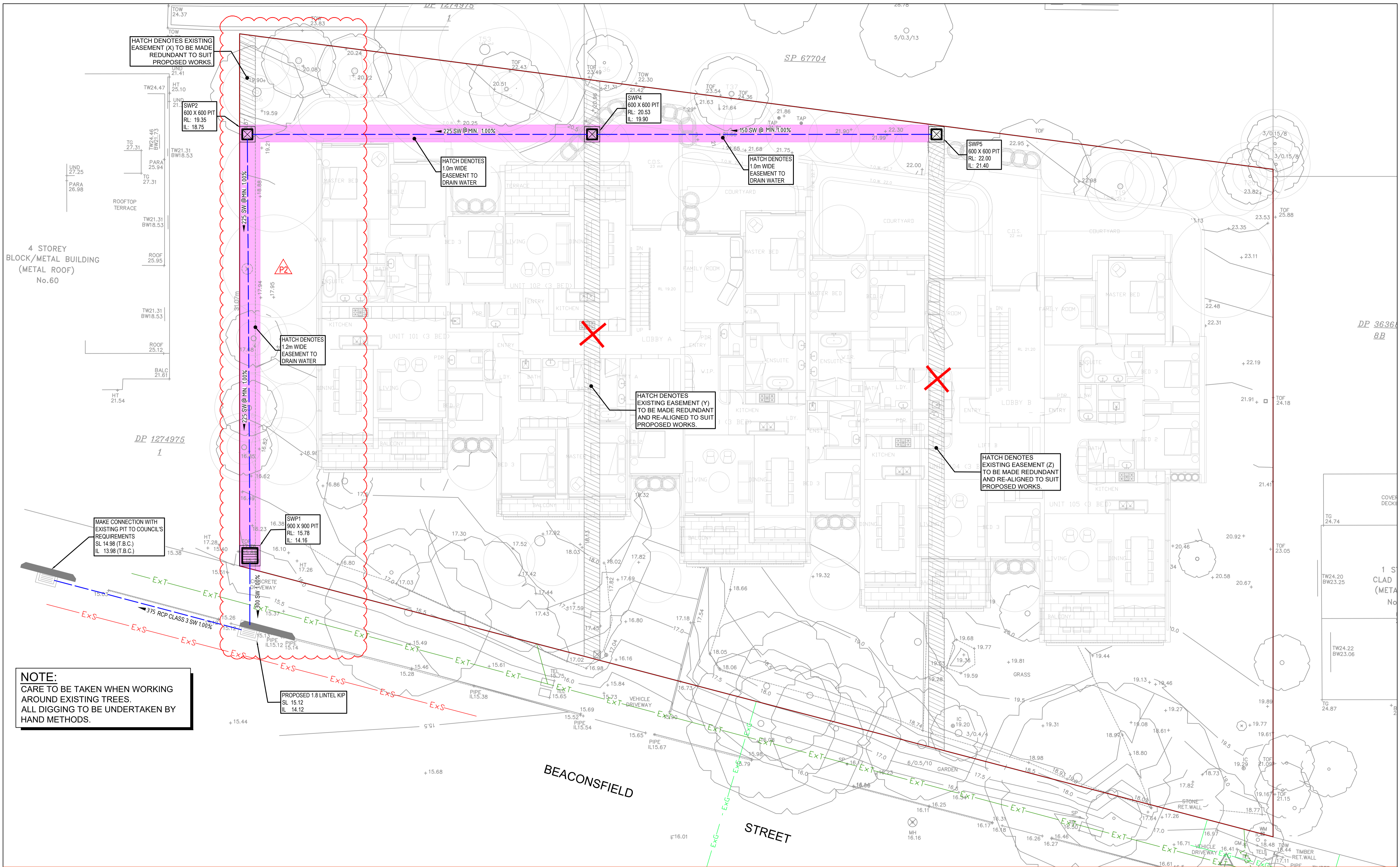
NOTE:
ALL GRATES WITHIN FOOTWAY AREAS TO BE HEEL GUARD & BIKE SAFE.

NOTE:
REFER ARCHITECTURAL DRAWINGS FOR FINAL SET-OUT LEVELS.

NOTES:
 1- CONTRACTOR IS TO PROVIDE OVERFLOW OUTLETS & EMERGENCY OVERFLOW SPITTERS TO ALL TRAPPED AREAS.
 2- DP/VD ARE Ø100mm PIPES U.N.O.
 3- ALL TRANSFERRING PIPES ARE SUSPENDED U.N.O.
 4- BALCONIES PIPES ARE Ø50mm PVC WRAPPED IN 20mm ABLEFLEX CAST IN SLAB AT MIN 1.0% SLOPE.

NOTE:
IT IS CONTRACTOR'S RESPONSIBILITY TO ENSURE MINIMUM PONDING IS ACHIEVED OVER THE FLOOR WASTES BY GRADING CATCHMENTS' SURFACES AT MINIMUM 1.0% FALL

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			<p>No. P2</p>	<p>Description DA ISSUE</p>	<p>Date 13.11.23</p>	<p>In E.H.</p>			<p>Drawing No. C102</p>
<p>Scale @ A1: 1:100 North</p>									<p>Revision O.C. E.H. Date: NOVEMBER 2023</p>
									<p>DA ISSUE</p>



NOTE:
 CARE TO BE TAKEN WHEN WORKING
 AROUND EXISTING TREES.
 ALL DIGGING TO BE UNDERTAKEN BY
 HAND METHODS.

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Client
RE.STREET

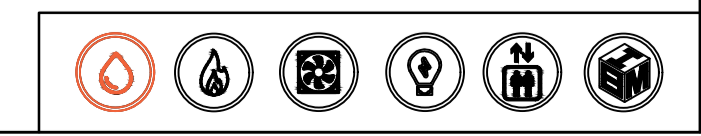
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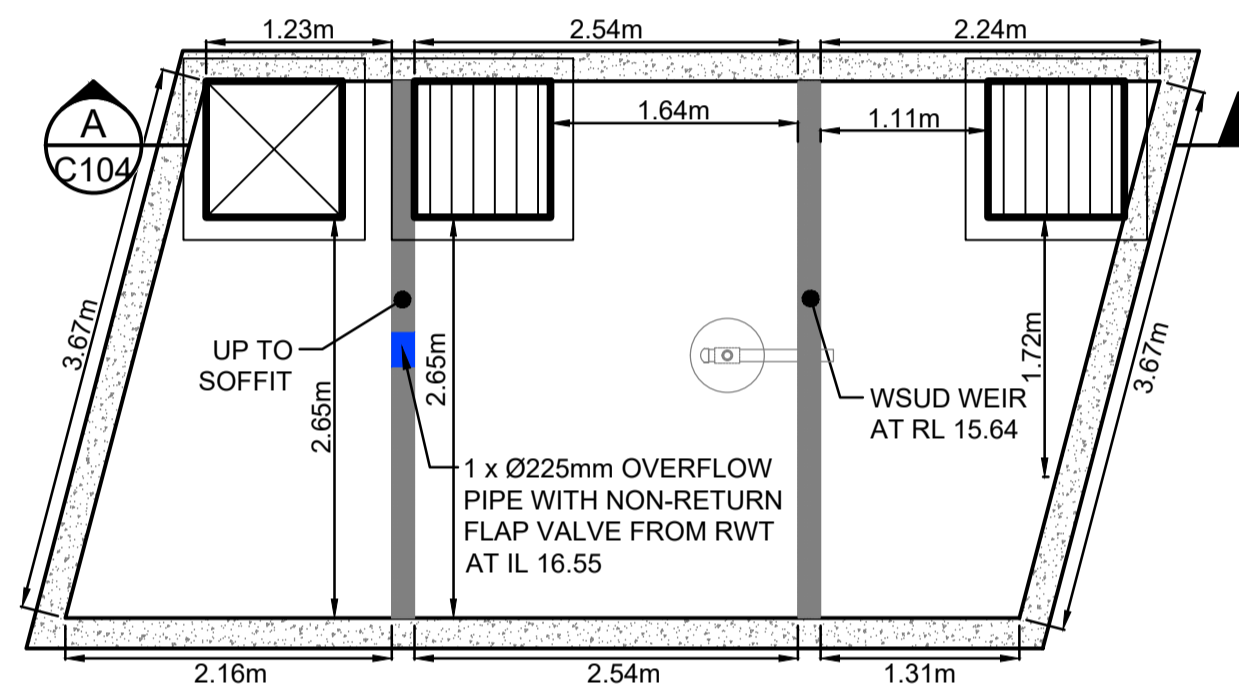
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Project
RESIDENTIAL FLAT BUILDING - KENZA
 54-58 Beaconsfield Street, Newport

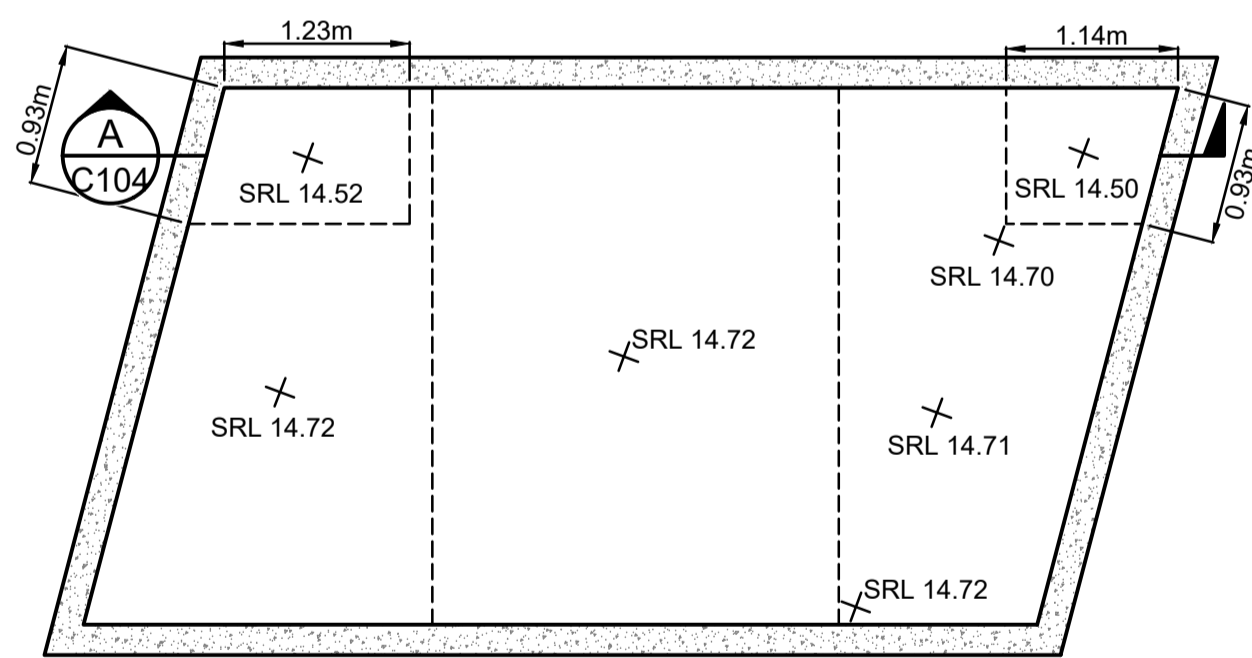
Drawing Title
**CIVIL SERVICES
 EASEMENT DIVERSION PLAN**

Project No. 23050
 Drawing No. **C103**
 Scale @ A1: 1:100 North
 Chk: O.C.
 Dm: E.H.
 Date: NOVEMBER 2023
 Revision
 P2
DA ISSUE

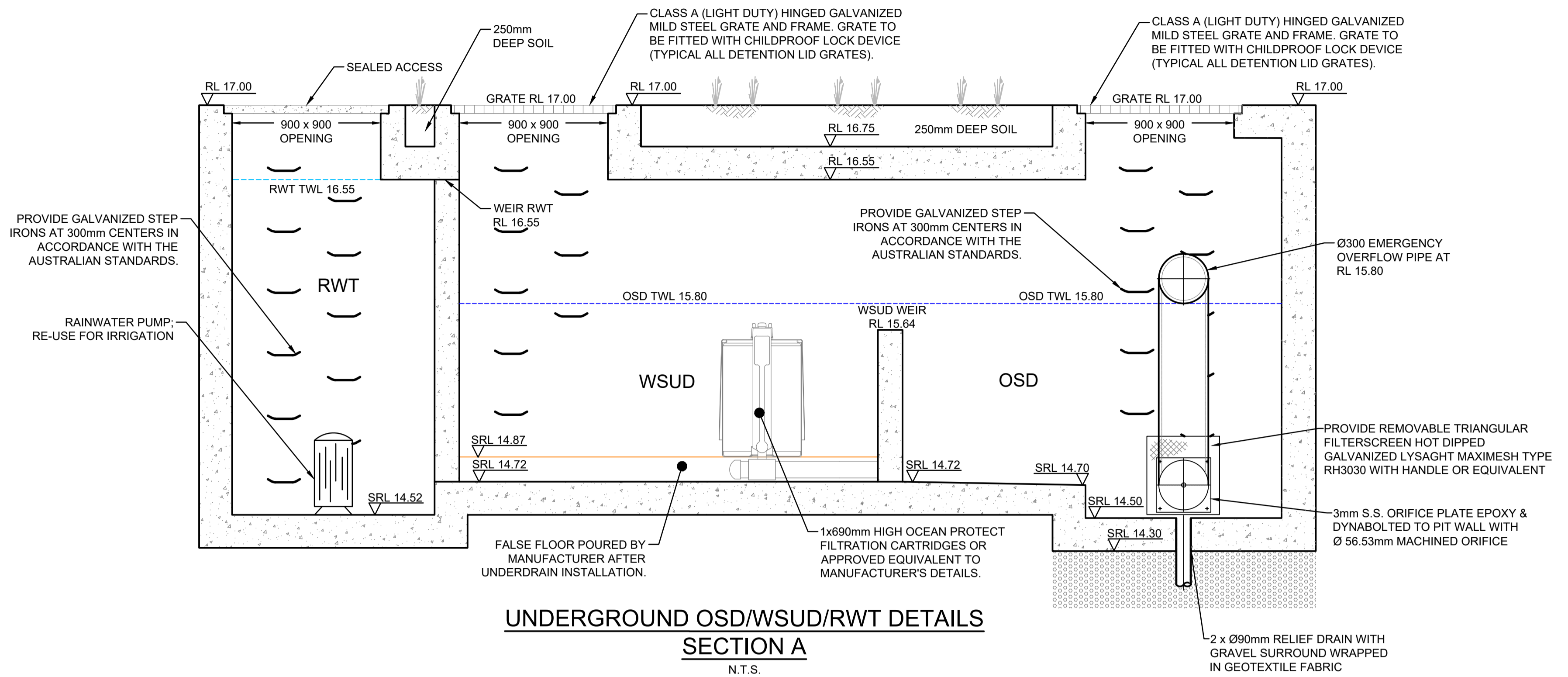




UNDERGROUND OSD/WSUD/RWT INTERNAL WALLS DIMENSIONS & WEIR HEIGHT
SCALE 1:50



UNDERGROUND OSD/WSUD/RWT BOTTOM S.R.L.
SCALE 1:50



UNDERGROUND OSD/WSUD/RWT DETAILS SECTION A
N.T.S.

OSD CALCULATIONS:

BASED ON NOTHERN BEACHES COUNCIL'S DCP, THE SITE IS LOCATED IN REGION 1 - NORTHERN STORMWATER REGION.

- TOTAL SITE AREA = 2113.5m²
- PRE DEV IMPERVIOUS AREA = 991.30m²
 - POST DEV IMPERVIOUS AREA = 1197.85m²

ADDITIONAL INCREASE IN IMPERVIOUS AREA = 206.55m² > 50m²
THEREFORE, OSD IS REQUIRED.

- BASED ON TABLE 7 IN COUNCIL'S DCP:
- MINIMUM CAPACITY OF OSD TANK = 15,000L
 - DISCHARGE RATE = 7L/s

ORIFICE CALCULATIONS:

$$Q = C \times A \times (2 \times g \times h)^{0.5}$$

$$SO: A = Q / (C \times \text{sqrt}(2 \times g \times h))$$

$$= 0.007 / (0.6 \times \text{sqrt}(2 \times 9.81 \times 1.10))$$

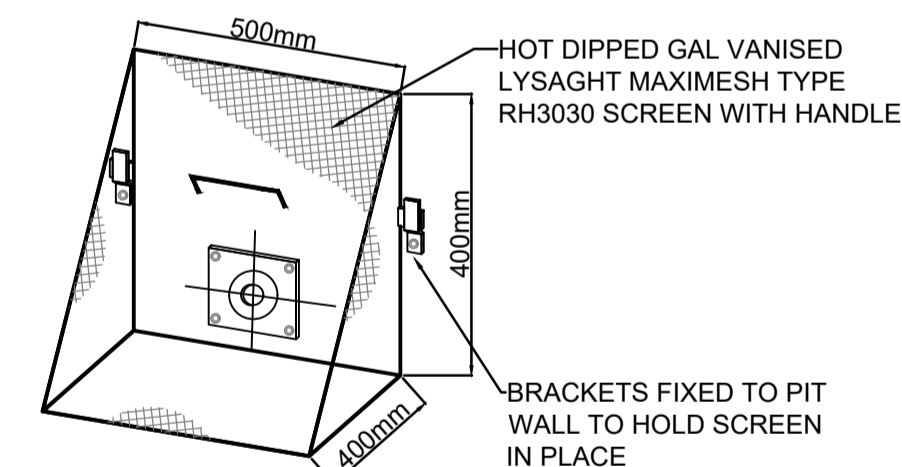
$$= 0.00251\text{m}^2$$

THEREFORE:

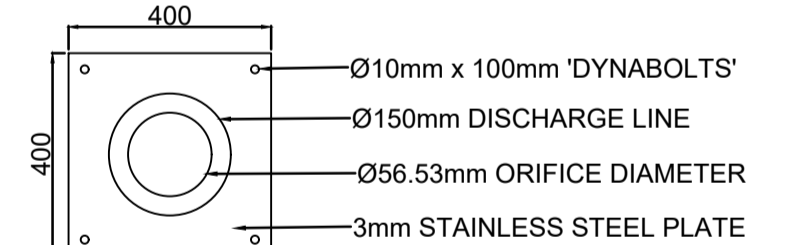
$$d = \text{sqrt}(4 \times A / \text{pi})$$

$$= \text{sqrt}(4 \times 0.00251 / 3.14159)$$

$$= 56.53\text{mm}$$



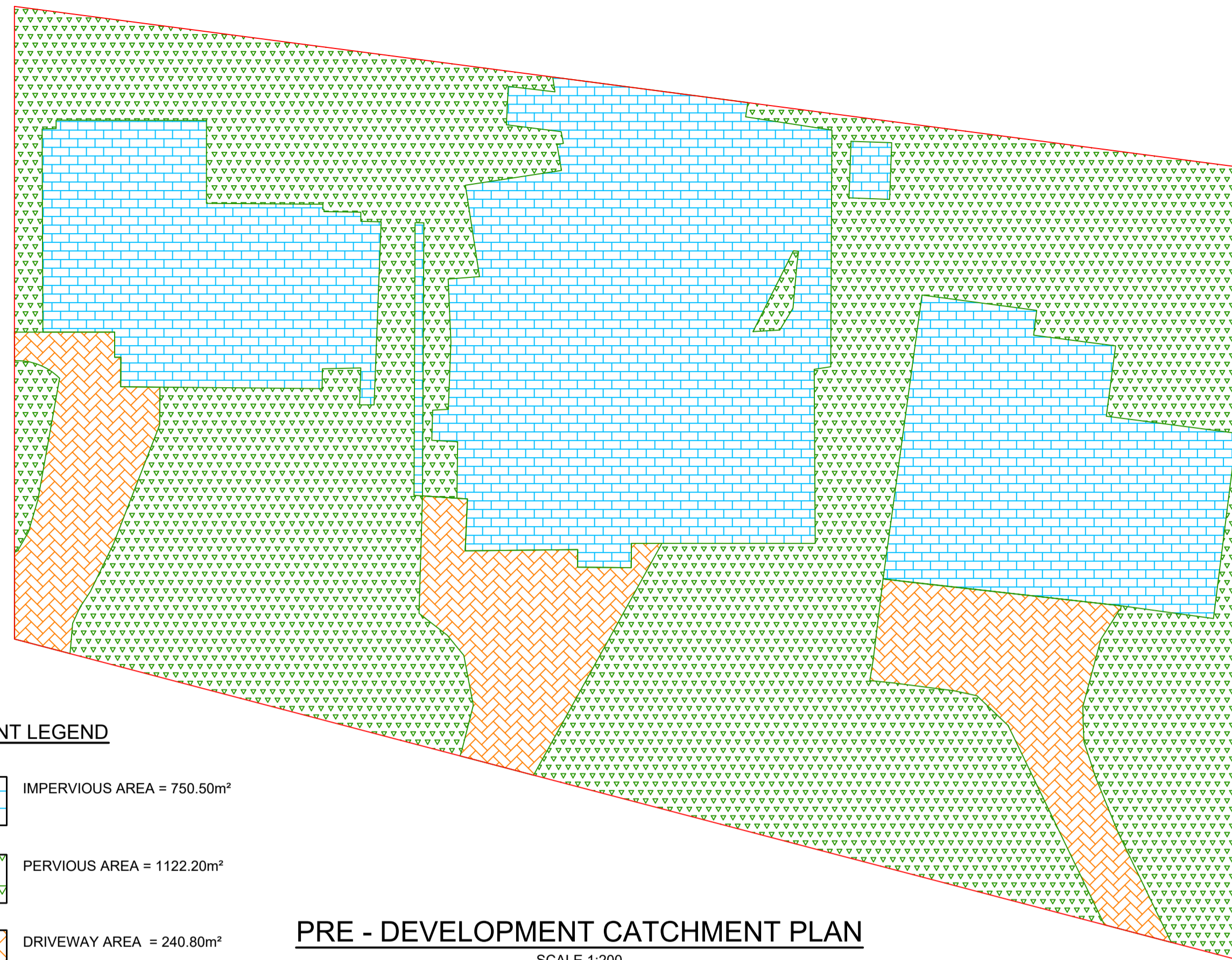
TRASH SCREEN DETAIL
N.T.S.



ORIFICE PLATE DETAIL
N.T.S.

No.	Description	Date	In
P1	DA ISSUE	03.11.23	E.H.





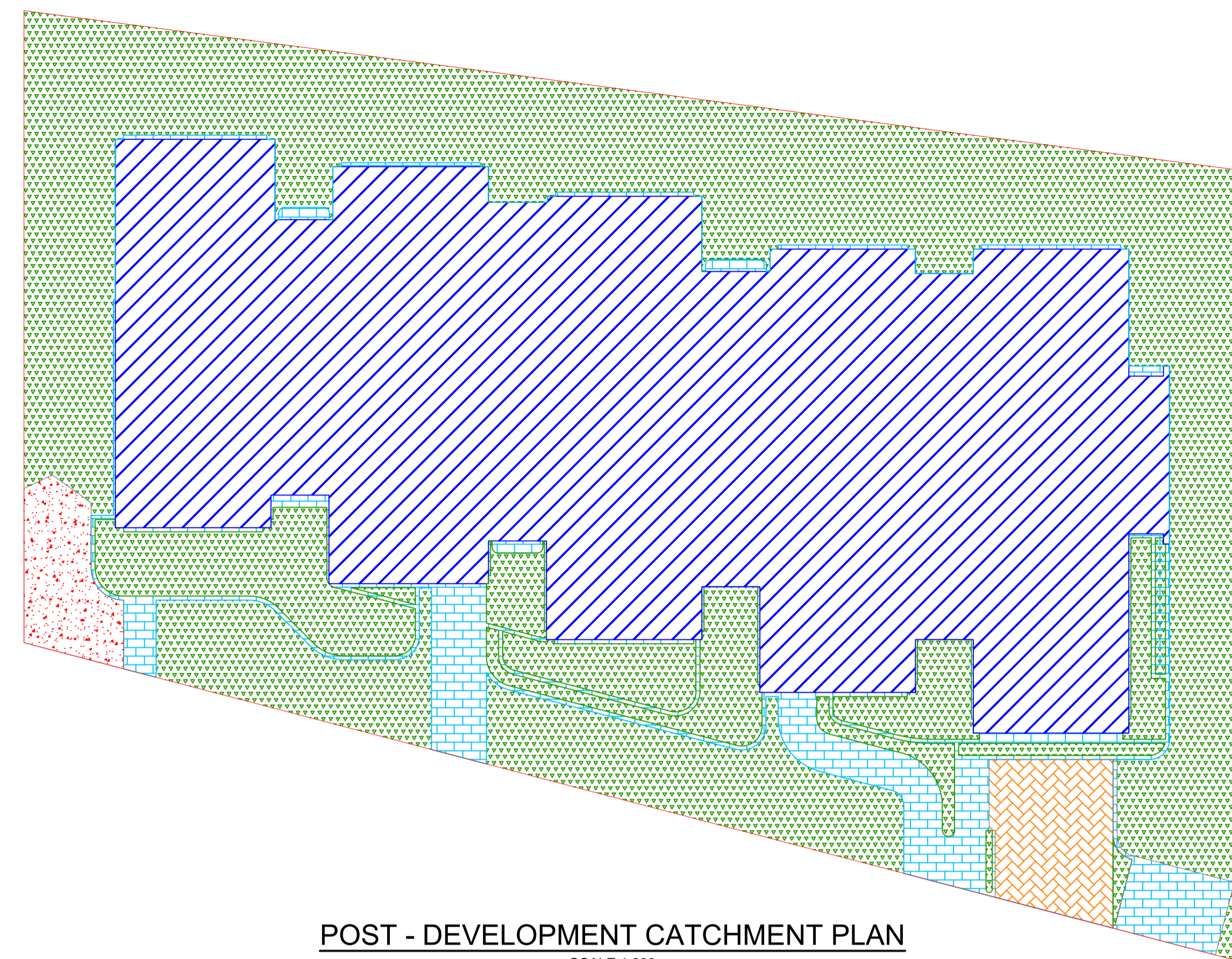
CATCHMENT LEGEND

- IMPERVIOUS AREA = 750.50m²
- PERVIOUS AREA = 1122.20m²
- DRIVEWAY AREA = 240.80m²

PRE - DEVELOPMENT CATCHMENT PLAN

SCALE 1:200

TOTAL SITE AREA = 2113.5m² (46.90% IMP)



POST - DEVELOPMENT CATCHMENT PLAN

SCALE 1:200

CATCHMENT LEGEND

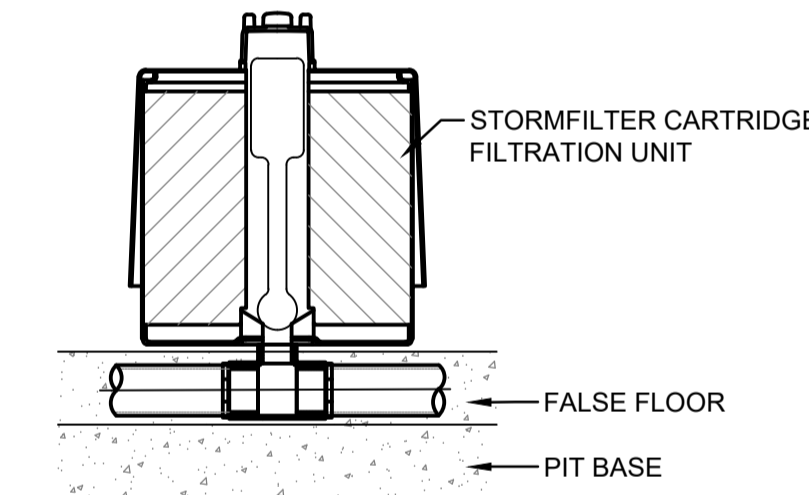
- ROOF AREA TO OG = 1019.70m²
(50% TO RWTF THEN TO WSUD/OSD) (100% IMP)
- IMPERVIOUS AREA TO OG THEN TO WSUD/OSD = 133.43m²
- PERVIOUS AREA TO OG THEN TO WSUD/OSD = 883.16m²
- DRIVEWAY AREA TO OG THEN TO WSUD/OSD = 44.72m²
- AREA BYPASSING WSUD/OSD = 32.49m² (100% PERV)

TOTAL AREA TO OG THEN TO WSUD/OSD = 2081.01m² (57.56% IMP)

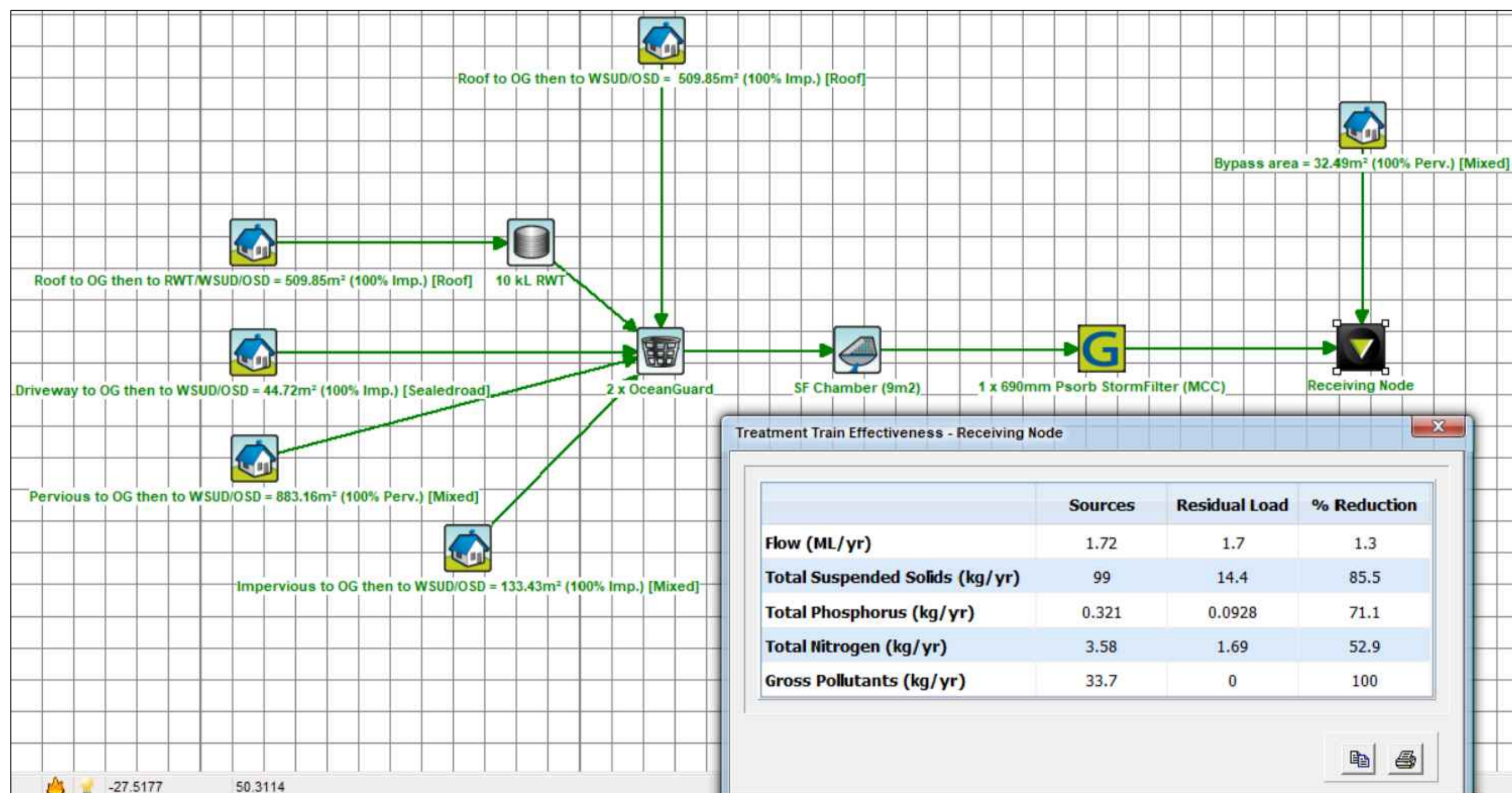
TOTAL SITE AREA = 2113.5m² (56.67% IMP)

GENERAL NOTES

1. INLET AND OUTLET PIPES TO BE IN ACCORDANCE WITH APPROVED PLANS.
2. 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.
3. ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
4. SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.
5. THE INVERT LEVEL OF THE INLET PIPE MUST BE GREATER THAN THE RL OF THE FALSE FLOOR WITHIN THE CARTRIDGE CHAMBER.
6. 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.
7. THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES.
8. DRAWINGS NOT TO SCALE.



STORMFILTER CARTRIDGE DETAIL



MUSIC RESULT

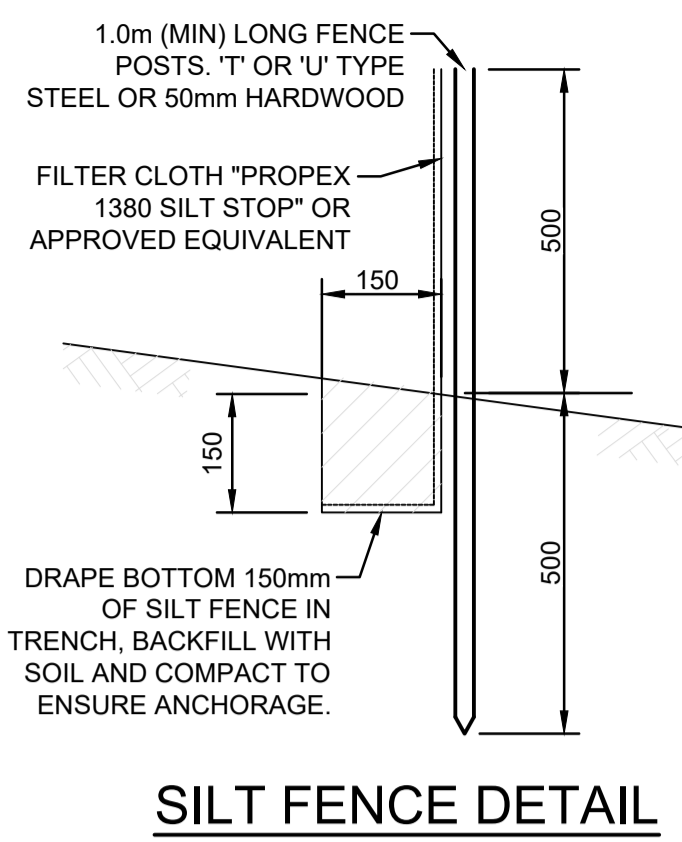
N.T.S.

Filtration Unit Maintenance Schedule

Facility Component Requiring Maintenance	Maintenance Activity	When Maintenance Activity Is Required	Expected Facility Performance After Maintaining	INSPECTION/MINOR MAINTENANCE (TIMES/YEAR)	MAJOR MAINTENANCE (TIMES/YEAR)
StormFilter® Cartridges and Containment Structure	Trash and Debris Removal	Floatable objects or other trash is present in the filter. Remove to avoid hindrance of filtration and eliminate unsightly debris and trash.	Permanent removal from storm system.	2 (and after major storms)	1 (except in case of a spill)
	Cartridge Replacement and Sediment Removal	1. Media has been contaminated by high levels of pollutants, such as after a spill.	1. New media is able to effectively treat stormwater.	-	-
Drainage System Piping	Flushing With Water	Drainage system is obstructed by debris or sediment.	Outflow is not restricted.	-	-

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.

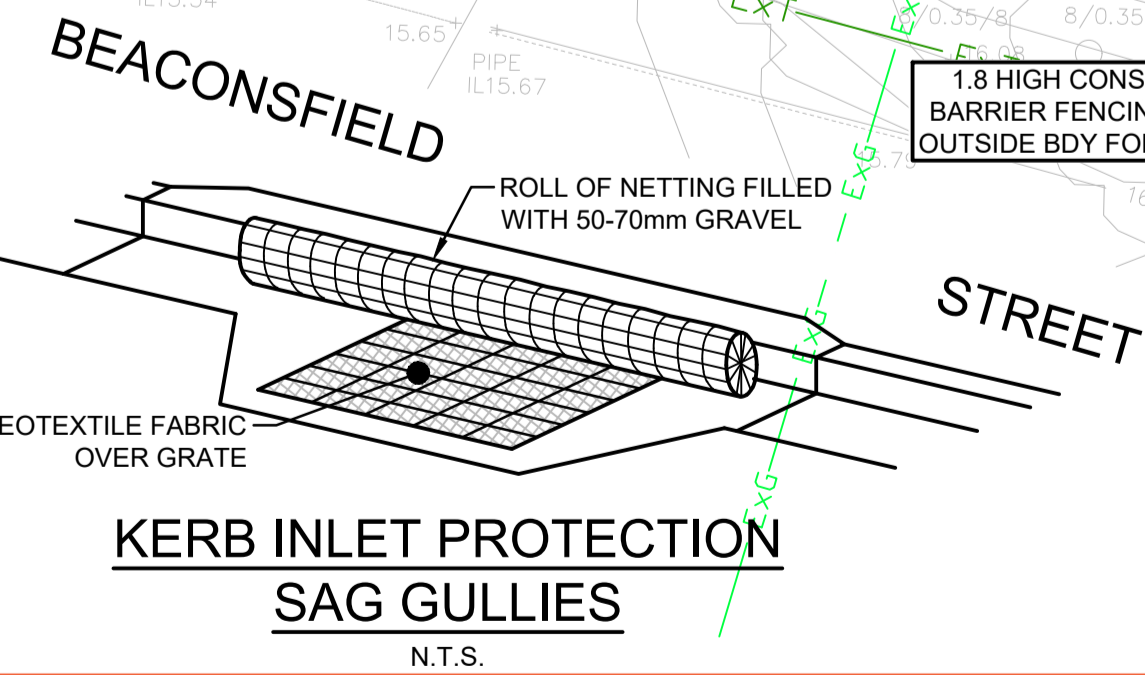
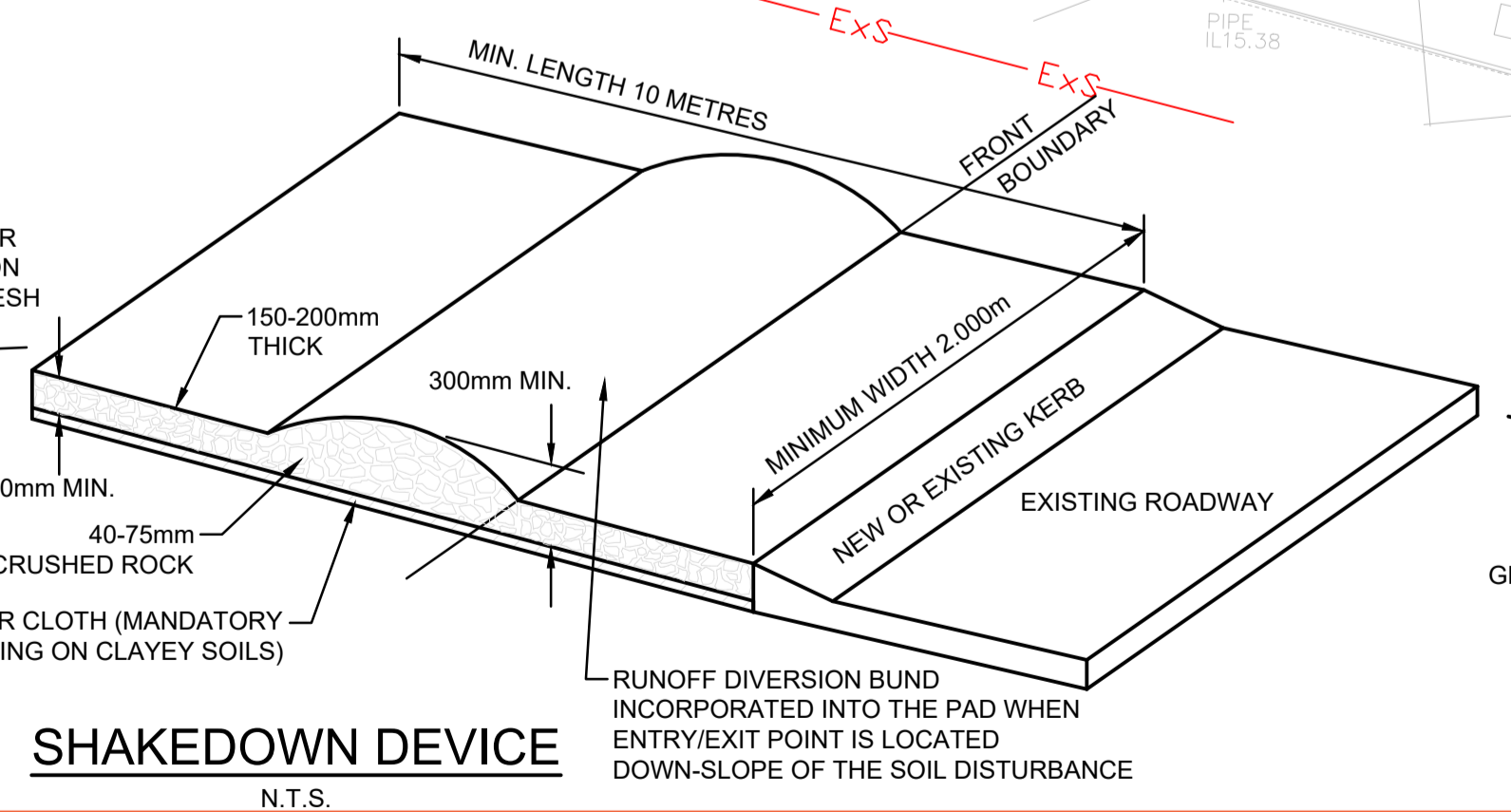
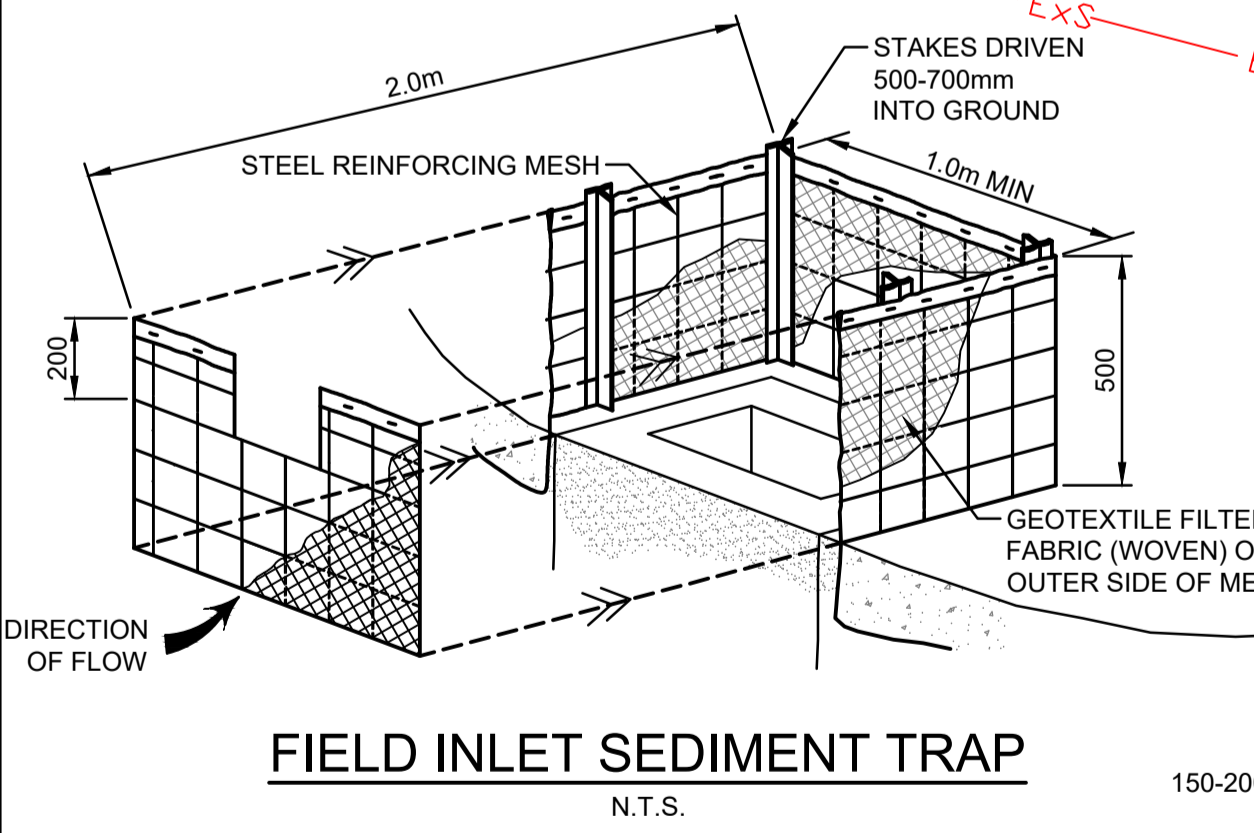
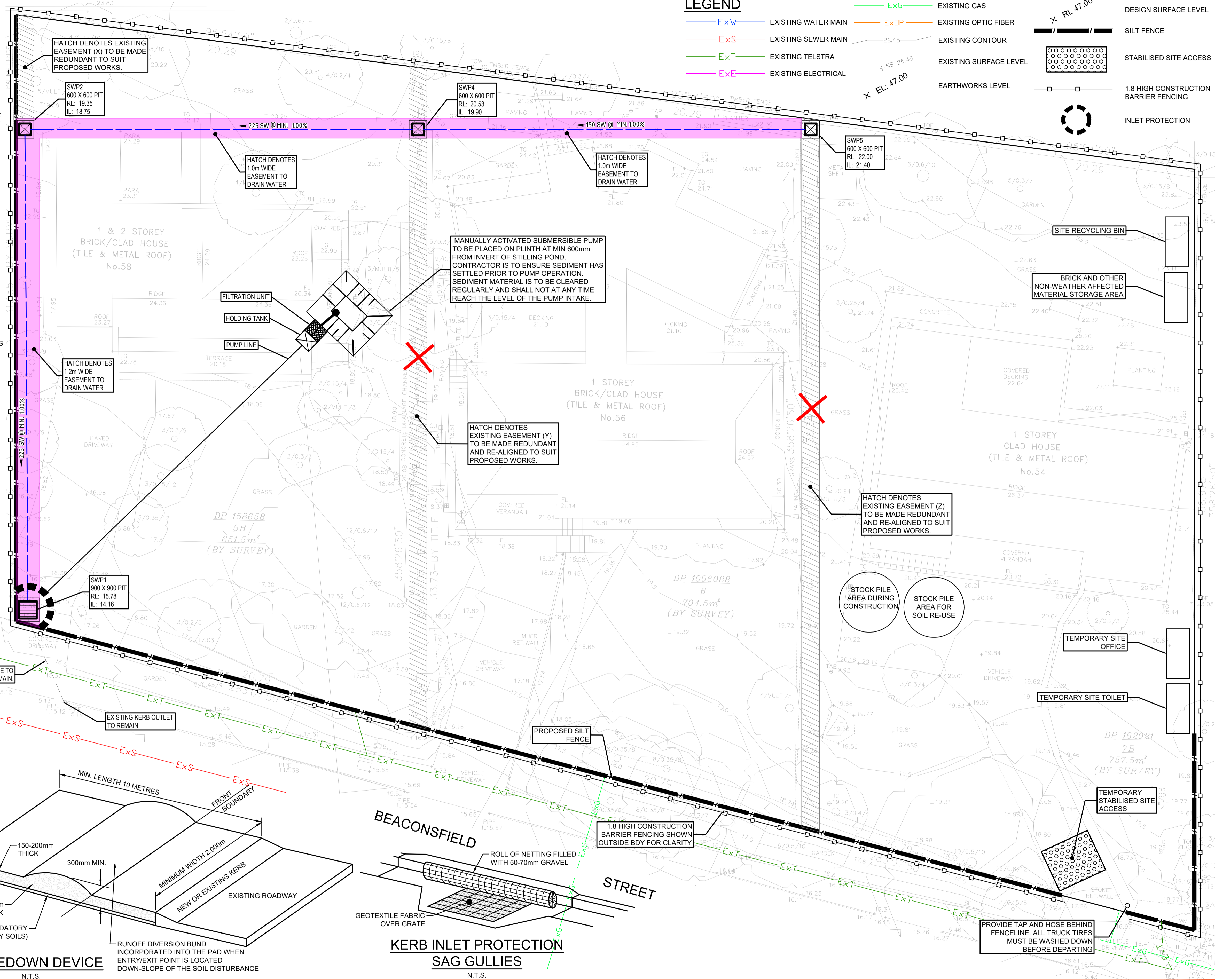


SEDIMENT & EROSION NOTES

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 SEDIMENTATION 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 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.

LEGEND

- ExG EXISTING GAS
- ExW EXISTING WATER MAIN
- ExS EXISTING SEWER MAIN
- ExT EXISTING TELSTRA
- ExE EXISTING ELECTRICAL
- ExOP EXISTING OPTIC FIBER
- EXISTING CONTOUR
- EXISTING SURFACE LEVEL
- EARTHWORKS LEVEL
- DESIGN SURFACE LEVEL
- SILT FENCE
- STABILISED SITE ACCESS
- 1.8 HIGH CONSTRUCTION BARRIER FENCING
- INLET PROTECTION



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No.	Description	Date	In
P1	DA ISSUE	16.11.23	E.H.

Project

RESIDENTIAL FLAT BUILDING - KENZA

54-58 Beaconsfield Street, Newport

Drawing Title

CIVIL SERVICES
SEDIMENT & EROSION CONTROL PLAN & DETAILS

Project No. 23050

Drawing No. **C106**

Scale @ A1: 1:100 North

Chk: O.C.

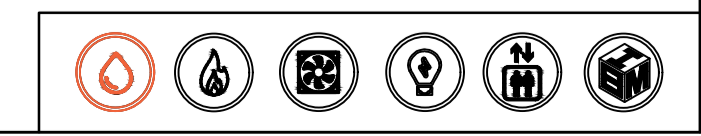
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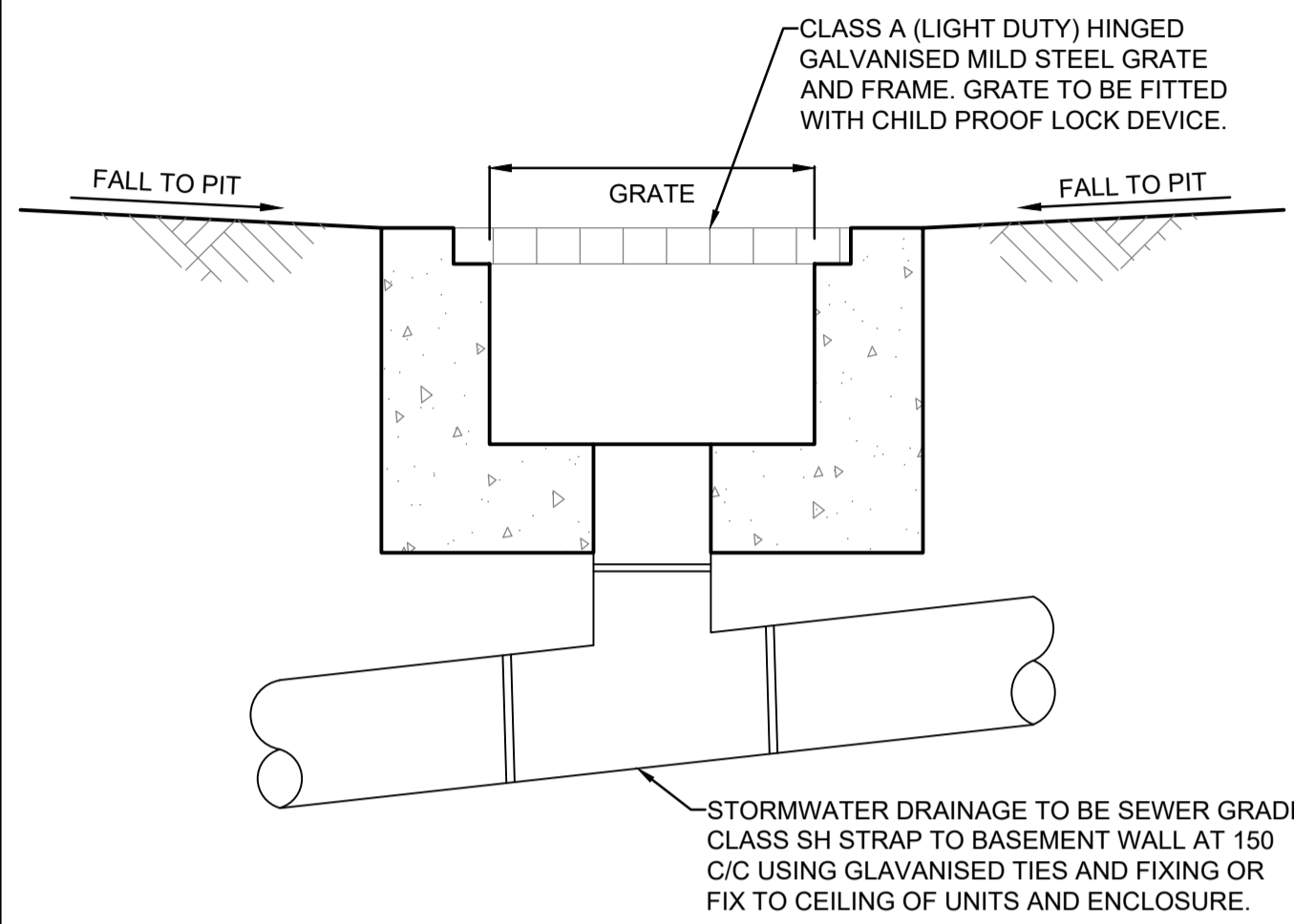
Date: NOVEMBER 2023

Revision

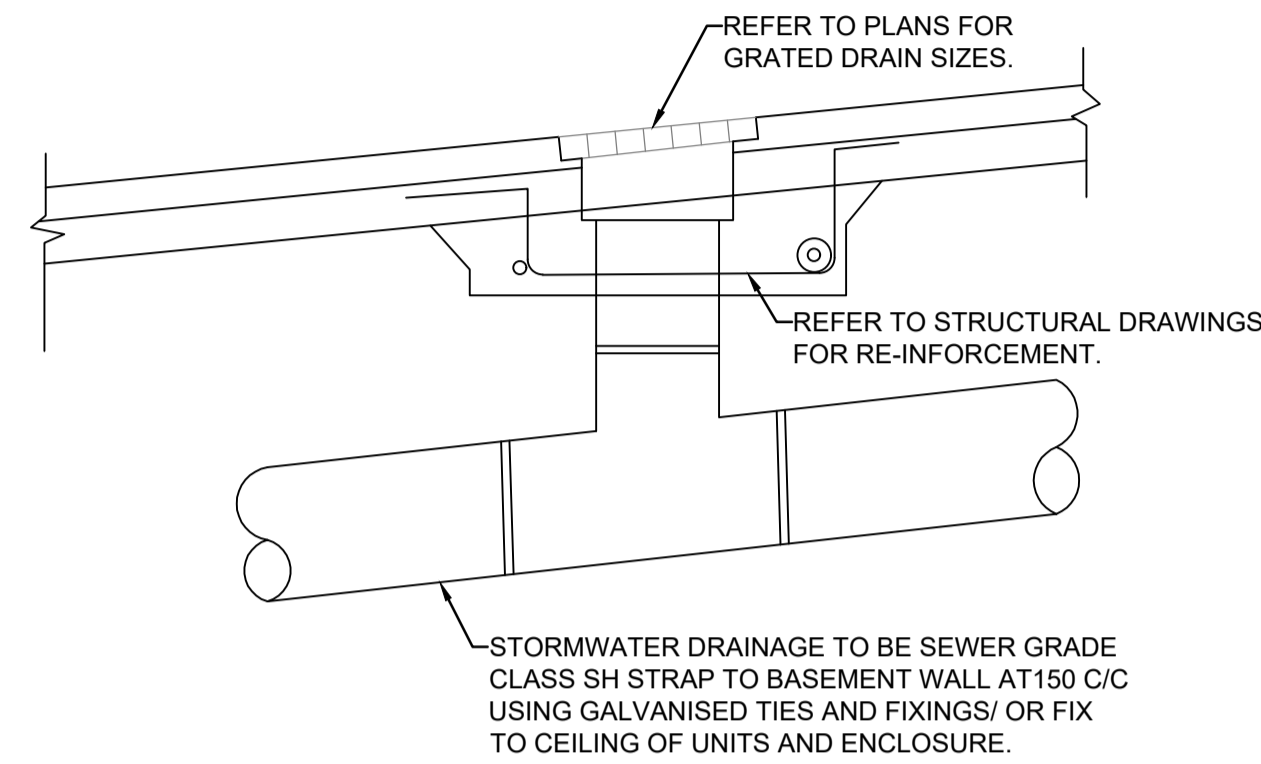
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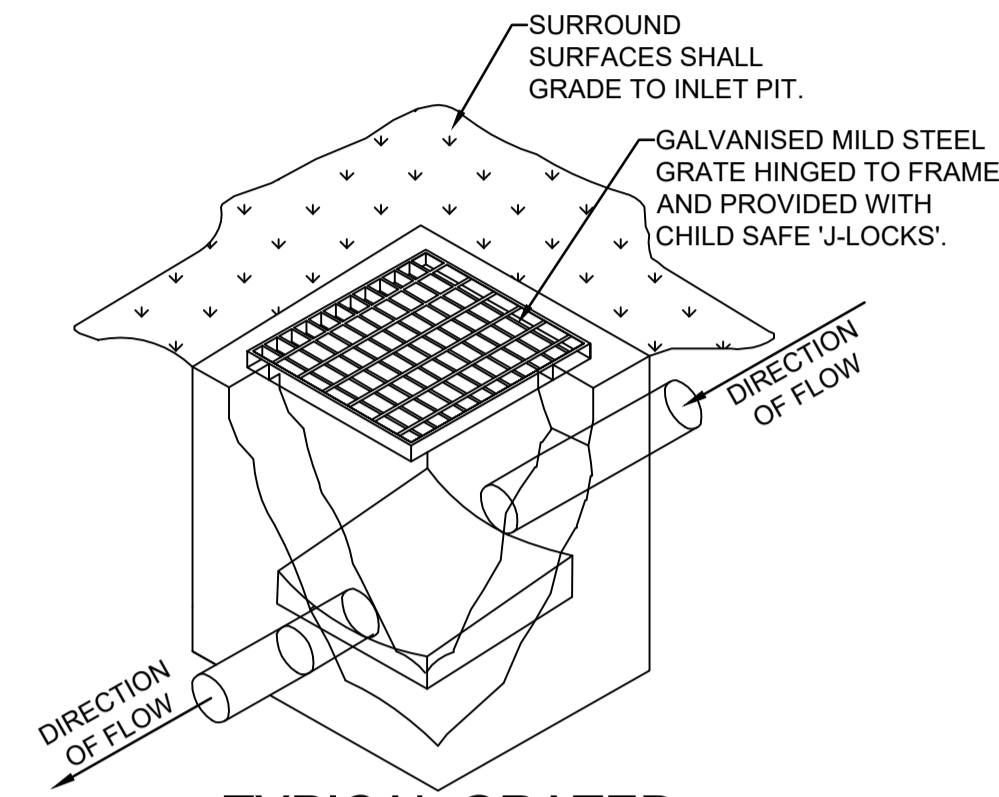




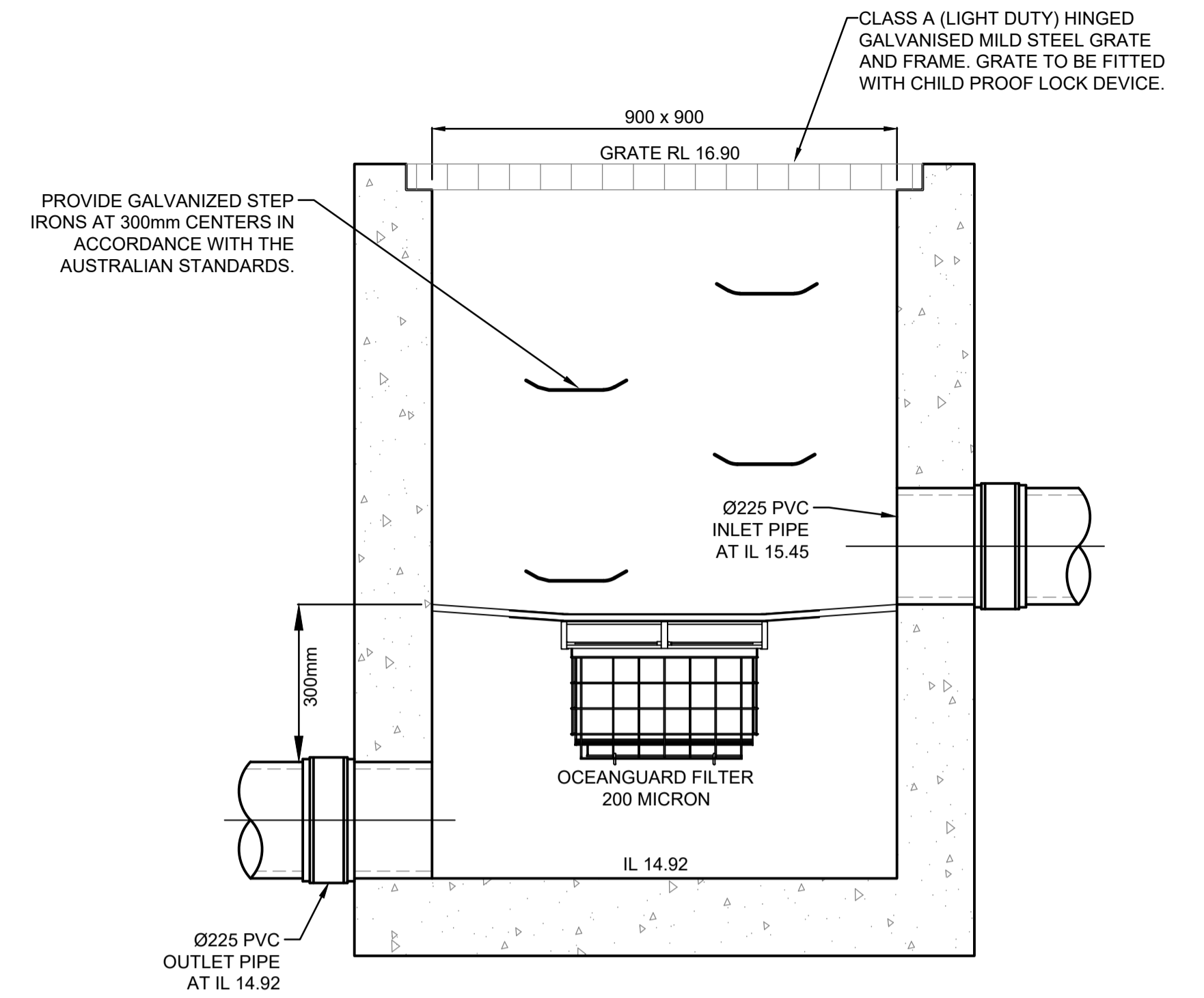
VERTICAL DROP PIT DETAIL
SCALE 1:10



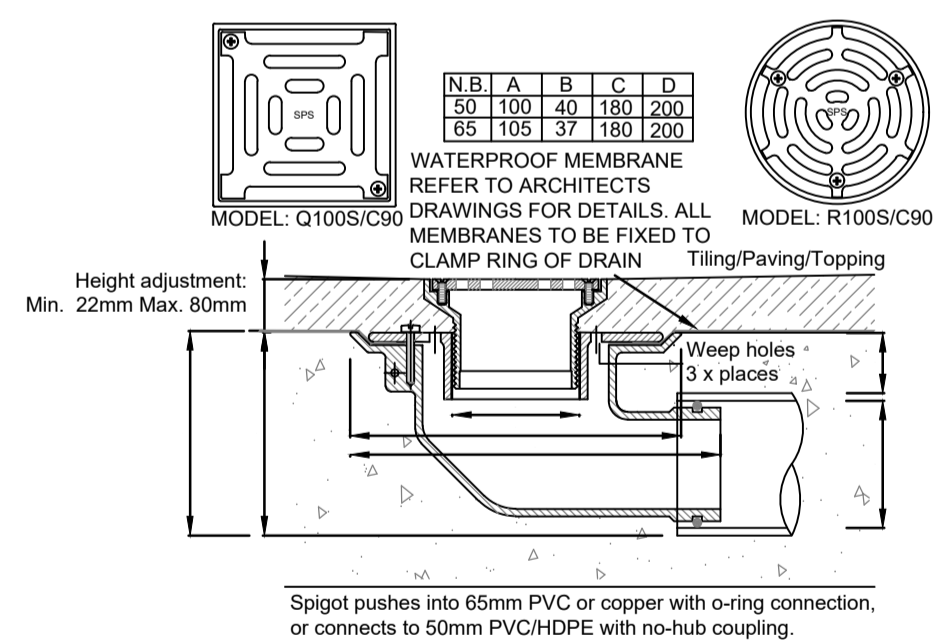
GRATED DRAIN DETAIL
N.T.S.



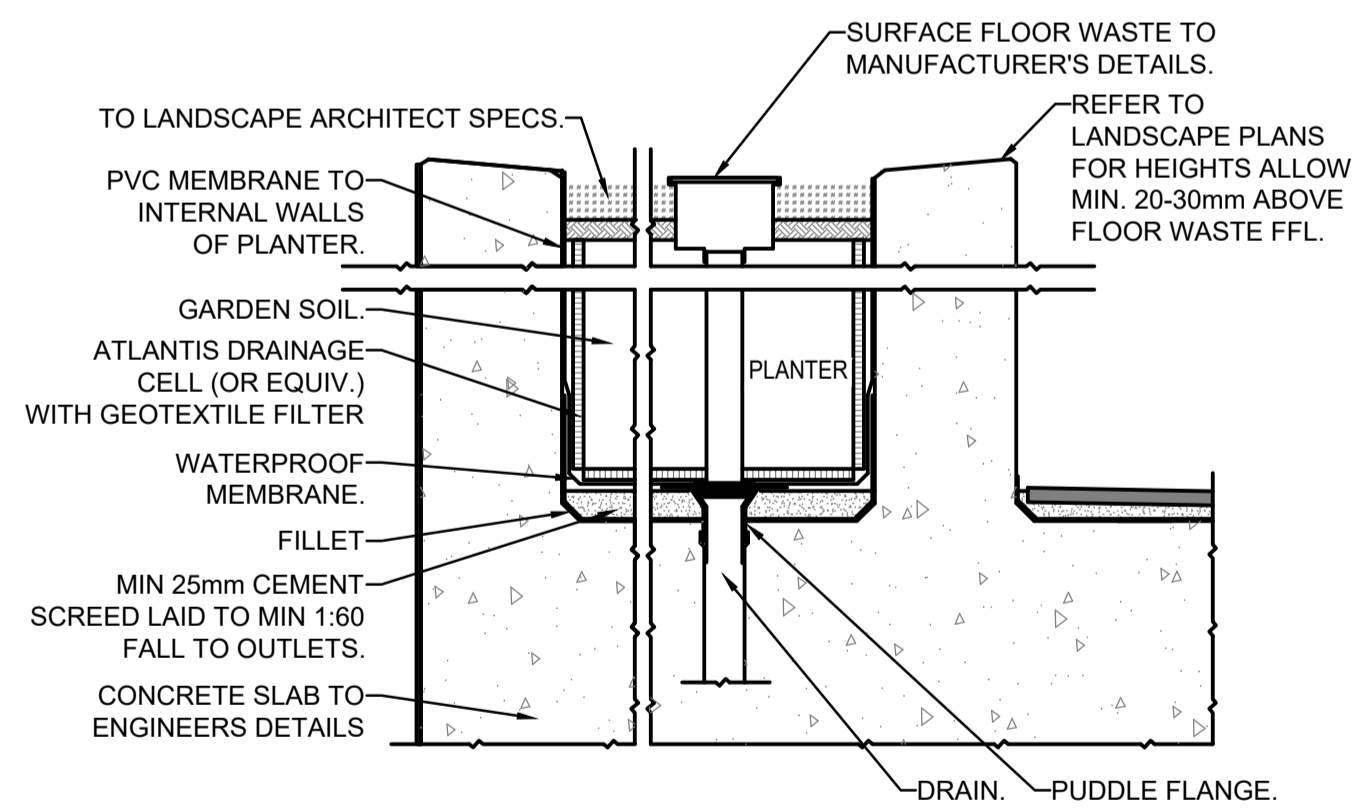
TYPICAL GRATED INLET PIT DETAIL
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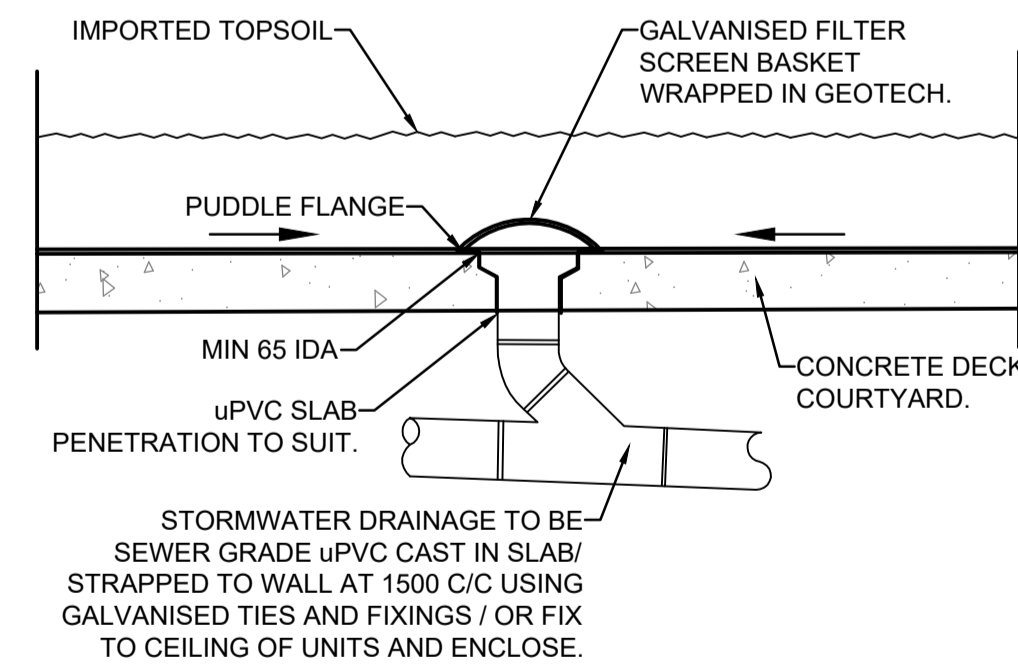
OCEANGUARD PIT 12 DETAILS
N.T.S.



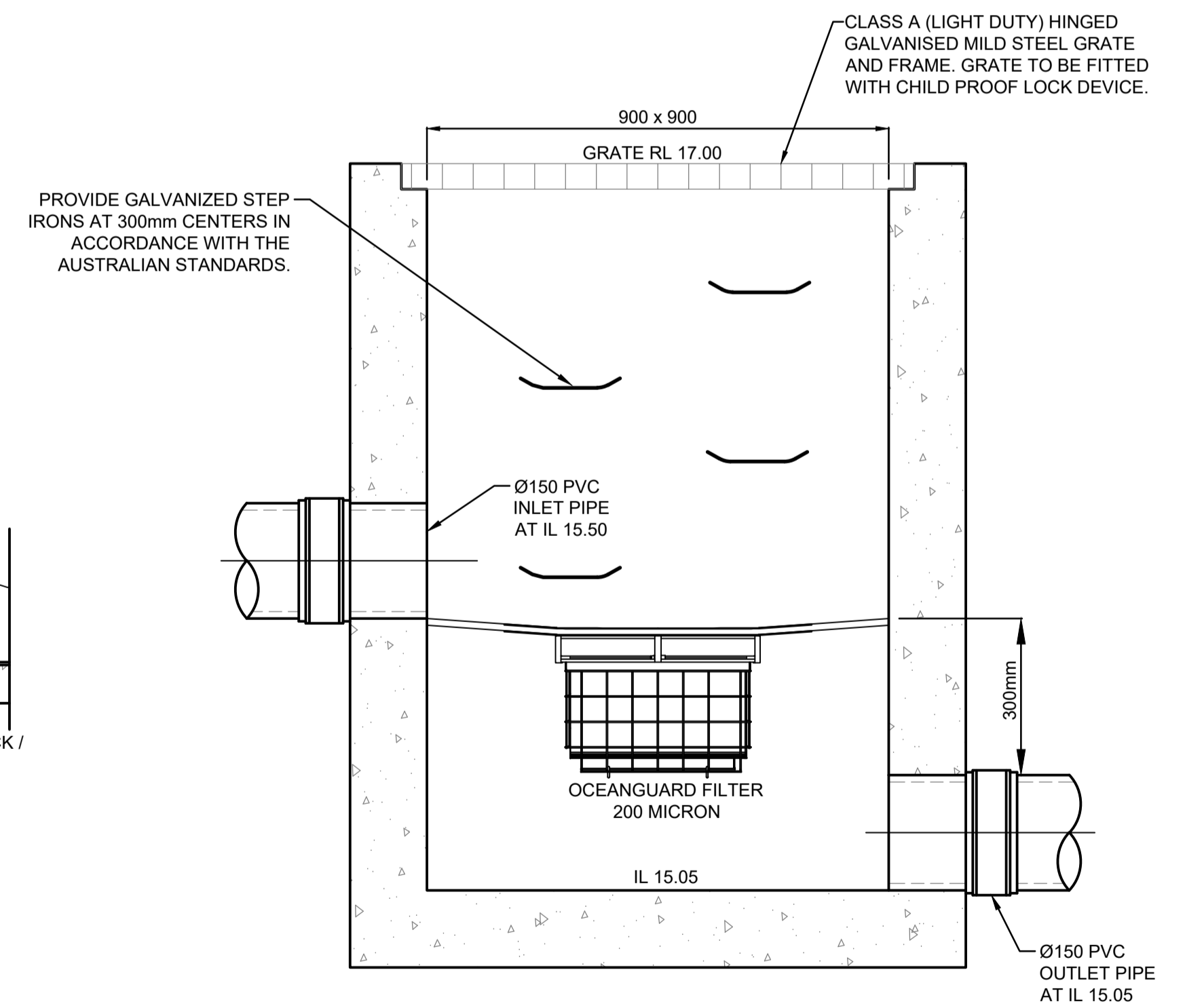
TYPICAL CAST IN FLOOR WASTE/RAINWATER OUTLET
N.T.S.



TYPICAL SUSPENDED PLANTER BOX FLOOR WASTE DETAIL
N.T.S.



PLANTER GRATE DETAIL
N.T.S.



OCEANGUARD PIT 11 DETAILS
N.T.S.

No.	Description	Date	In
P1	DA ISSUE	03.11.23	E.H.

Project No.	23050
Drawing No.	C400
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Drm:	E.H.
Date:	NOVEMBER 2023
Revision	P1

