COUNCIL REF: DA 222/2024

15a & 15b MOSELEY STREET & 25-31 DONALD STREET, CARLINGFORD.
STORMWATER CONCEPT DESIGN - SSDA

LOCALITY PLAN
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Project No. 20240241 Drawing No. S05-SW100 Revision No. B

ISSUED FOR APPROVAL

SITEWORKS LEGEND

Symbol	Description
SWD	STORMWATER LINE
RW	STORMWATER LINE TO RAINWATER TANK
SS	SUBSOIL LINE
SWRM	STORMWATER RISING MAIN
S	AUTHORITY SEWER LINE
W	AUTHORITY WATER LINE
G	AUTHORITY GAS LINE
OH	AUTHORITY OVER HEAD ELECTRICITY LINE
E	AUTHORITY UNDERGROUND ELECTRICITY LINE
T	AUTHORITY COMMS LINE
	GRATED SURFACE INLET PIT
	GRATED SURFACE INLET PIT WITH ENVIROPOD INSERT
	JUNCTION PIT
	GRATED TRENCH DRAIN
RWO	RAINWATER OUTLET
CO	CLEAR OUT POINT
DDO	DISH DRAIN OUTLET
PD	PLANTER DRAIN
	DOWNPIPE DROP
DP	DOWNPIPE
	WARNING LIGHT
00.00	FINISH SURFACE LEVEL

ABBREVIATIONS:

Ø or DIA	DIAMETER
CO	CLEAR OUT
DDO	DISH DRAIN OUTLET
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSIP	GRATED SURFACE INLET PIT
IL	INVERT LEVEL
KIP	KERB INLET PIT
NGL	NATURAL GROUND LEVEL
OFP	OVERLAND FLOWPATH
OSD	ON-SITE DETENTION
RCP	REINFORCED CONCRETE PIPE
RL	REDUCED LEVEL
RWT	RAINWATER TANK
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
TOK	TOP OF KERB
TOW	TOP OF WALL
UPVC	

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GENERAL

G1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS, BUILDING CODE OF AUSTRALIA, NSW CODE OF PRACTICE AND THE TO THE RELEVANT SERVICE CODES.

G2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.

G3. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE IN MILLIMETERS (U.N.O.). DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OF THESE DRAWINGS. USE FIGURED DIMENSIONS ONLY.

G4. BENCHMARKS HAVE BEEN ESTABLISHED WHERE INDICATED ON THE DRAWINGS. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.). THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY SURVEY WORK TO ENSURE THAT THE WORKS ARE CONSTRUCTED TO DESIGN LINE AND LEVEL.

G5. SETTING OUT DIMENSIONS AND LEVELS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR.

G6. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT SZZ CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.

G7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH WORK HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.

G8. NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.

G9. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.

G10. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND THESE SPECIFICATIONS.

G11. DESIGN LEVELS GIVEN ARE TO FINISHED SURFACE LEVEL AND INCLUSIVE OF TOPSOIL. (TOPSOIL DEPTH VARIES).

G12. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A N.A.T.A. REGISTERED SURVEYOR.

G13. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.

G14. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THE DRAWING HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED OR ACCURATE.

G15. THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.

G16. S&G CONSULTANTS DOES NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THE DRAWING SHOWS MORE THAN THE PRESENCE OR ABSENCE OF SERVICES, AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

G17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FROM THE UTILITY SERVICES AUTHORITIES A CURRENT COPY OF UNDERGROUND SERVICES SEARCH FOR THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY. CLEARANCE SHALL BE OBTAINED FROM THE RELEVANT REGULATORY AUTHORITY. CONTRACTOR TO KEEP COPY OF UNDERGROUND SERVICES SEARCH ON SITE AT ALL TIMES. ANY DAMAGES TO SERVICES OR SERVICES ADJUSTMENTS SHALL BE CARRIED OUT BY THE CONTRACTOR OR RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE.

G18. VISIT THE SITE BEFORE SUBMITTING THE FINAL TENDER PRICE TO ASSESS 'ON SITE' CONDITIONS. FAILURE TO DO SO WILL FORFEIT ANY CLAIM FOR NOT BEING AWARE OF CONDITIONS AFFECTING THE TENDER.

G19. THE CONTRACTOR SHALL PREPARE ACCURATE WORK-AS-EXECUTED DRAWINGS FOLLOWING THE COMPLETION OF ALL WORKS.

G20. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE IN PLACE & MAINTAIN TRAFFIC FACILITIES AT ALL TIMES DURING CONSTRUCTION.

G21. CONTRACTOR TO PROVIDE WORKSHOP COORDINATED DRAWINGS PRIOR TO COMMENCING WORKS ON SITE. WORKSHOP DRAWINGS TO BE REVIEWED AND APPROVED BY DESIGN ENGINEER.

STORMWATER

S1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE AS3500.3-2003: 'STORMWATER DRAINAGE'.

S2. FOR STORMWATER DRAINAGE PIPES THAT EXCEED 1:5 GRADE, REINFORCED CONCRETE ANCHOR BLOCKS SHALL BE INSTALLED. ANCHOR BLOCKS TO BE CONSTRUCTED TO SPECIFICATIONS SET OUT IN AS3500.3-2018 SECTION 8.10.

S3. EXISTING SERVICES SHOWN IN APPROXIMATE LOCATIONS ONLY. CONFIRM EXACT LOCATIONS ON SITE PRIOR TO COMMENCING WORK.

S4. COORDINATE THE INSTALLATION OF NEW SERVICES WITH ALL NEW & EXISTING SERVICES & STRUCTURAL PROVISIONS AS DETERMINED ON SITE.

S5. ALL PIPEWORK TO BE SUPPORTED IN ACCORDANCE WITH AS3500.3-2018.

S6. ALL PIPEWORK IS TO BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS AS SET DOWN IN AS3500.3-2003. ALL IN-GROUND PIPEWORK TO BE INSPECTED BY THE SUPERINTENDENT UNDER TEST CONDITIONS PRIOR TO BACKFILLING. BACKFILLING AND BEDDING TO AS3500.3-2018.

S7. PIPES SHALL BE TRUE TO GRADES SHOWN AND ALIGNED SO THAT THE CENTRE OF THE INLET PIPE INTERSECTS WITH THE CENTRE OF THE OUTLET PIPE AT THE DOWNSTREAM FACE OF THE PIT.

S8. BED ALL PIPES FIRMLY AND EVENLY WITH IMPORTED FILL ONLY. THICKNESS OF BEDDING LAYER SHALL BE 75mm IN SOIL AND 200mm IN ROCK.

S9. LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS3725-2007:'DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES.

S10. ALLOW TO TEST ALL PIPES AND PITS TO LOCAL AUTHORITY'S REQUIREMENTS.

S11. EXCAVATE TRENCHES AND STOCKPILE ALL MATERIAL FOR INSPECTION WITH REGARD TO REUSE FOR TRENCH BACKFILL. REMAINING MATERIAL TO BE REMOVED FROM SITE.

S12. BACKFILL PIPES WITH IMPORTED FILL. PROVIDE 200mm SIDE SUPPORT AND 150mm OVERLAY ABOVE PIPE CROWN. TRENCH FILL ABOVE THE EMBEDMENT ZONE TO THE UNDERSIDE OF THE ROAD PAVEMENT OR THE FOOTWAY SHALL BE AS FOLLOW:

UNDER ROADWAY
TRENCH FILL MATERIAL SHALL CONSIST OF IMPORTED FILL AS SPECIFIED HEREIN OF EITHER HIGH GRADE COMPACTION SAND OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO RMS QA SPECIFICATION 3051 OR SIMILAR.

OTHER THAN ROADWAY
TRENCH MATERIAL EXCAVATED SHALL CONSIST OF SELECT FILL AS SPECIFIED HEREIN AND SHALL NOT CONTAIN MORE THAN 20% OF STONES OF SIZE BETWEEN 25mm AND 75mm AND NONE LARGER THAN 75mm. PRIOR TO USE OF THE EXCAVATED MATERIAL IT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER.

S13. COMPACT BEDDING. EMBEDMENT AND TRENCH FILL MATERIALS AS FOLLOW:
EMBEDMENT:
FOR GRANULAR FILL MATERIAL (NON-COHESIVE SOIL) e.g. COARSE AGGREGATE FILL, THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%.

TRENCH FILL:
FOR GRANULAR MATERIAL (NON COHESIVE SOILS). THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%. FOR NON-GRANULAR FILL MATERIAL (COHESIVE SOILS), THE DRY DENSITY RATIO (RD) SHALL BE NOT LESS THAN 95%.

S14. EXISTING SERVICES
UTILITY INFORMATION SHOWN ON THE PLANS IS NOT INTENDED TO DEPICT MORE THAN THE PRESENCE OF ANY SERVICES. ACTUAL LOCATIONS SHOULD BE VERIFIED BY HAND EXCAVATION PRIOR TO CONSTRUCTION.

S15. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS.

S16. THE CONTRACTOR SHALL ENSURE THAT SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED AT ALL TIMES. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING WHERE REQUIRED. ONCE THE WORKS ARE COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD ALL DISTURBED AREAS.

S17. DRAINAGE PIPES
EXISTING PIPES WHICH FORM NO PART OF THE DRAINAGE SYSTEM SHALL BE REMOVED OR SEALED AS INDICATED ON THE PLANS. PIPES UP TO 300mm DIAMETER SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS (U.N.O.). ALL PIPE JUNCTIONS AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.

S18. WHERE DOWNPIPES PASS UNDER FLOOR SLABS, SEWER GRADE uPVC WITH RUBBER RING JOINTS ARE TO BE USED.

S19. MINIMUM GRADE TO DRAINAGE PIPES TO BE 1% (U.N.O.), MIN. SIZE 100mm DIAMETER (U.N.O.).

STORMWATER (CONTINUED)

S20. PIPES EQUAL TO AND LARGER THAN 375mm DIAMETER TO BE REINFORCED CONCRETE RUBBER RING JOINTED TYPE (CLASS 2) MANUFACTURED TO AS4058 (U.N.O.).

S21. PIPE INSTALLATION UNDER TRAFFICABLE AREAS SHALL BE IN ACCORDANCE WITH CONCRETE PIPE ASSOCIATION OF AUSTRALIA PUBLICATION "CONCRETE PIPE SELECTION & INSTALLATION" TYPE HS3 SUPPORT.

S22. EQUIVALENT STRENGTH FRC PIPES MAY BE USED SUBJECT TO AUTHORITY APPROVAL.

S23. MINIMUM PIPE COVER TO BE 600mm UNDER TRAFFICABLE AREAS AND 300mm ELSEWHERE (U.N.O.).

S24. CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.

S25. PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS.

S26. STORMWATER DRAINAGE CONNECTIONS TO COUNCIL'S SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL.

S27. DRAINAGE PITS
PITS DEEPER THAN 1200mm TO BE FITTED WITH STEP IRONS AT 300 CENTRES TO AS1657-2013:'FIXED PLATFORMS, WALKWAYS, STAIRWAYS AND LADDERS - DESIGN, CONSTRUCTION AND INSTALLATION'.

S28. ALL EXPOSED EDGES TO BE ROUNDED WITH 20mm RADIUS, OR CHAMFERED 20mm x 20mm.

S29. PIT REINFORCEMENT - MESH SL82 LAP TO BE 400mm MIN. CLEAR COVER 40 MIN. CAST AGAINST BLINDING OR FORMWORK. CORNER RETURNS MAY BE FABRIC OR EQUIVALENT BARS.

S30. BENCHING TO BE HALF OUTGOING PIPE DEPTH. CONCRETE FOR BENCHING TO BE 20MPa MASS CONCRETE.

S31. APPROVED PRECAST PITS MAY BE USED.

S32. 100mm DIAMETER HOLE FOR SUBSOIL DRAINAGE OUTLET TO BE LOCATED 100mm ABOVE INVERT OF ALL INLET PIPES. SUBSOIL DRAINAGE TO EXTEND FOR A DISTANCE OF 3m UPSTREAM OF PIT (AT EACH INLET TRENCH) WITH THE UPSTREAM END SEALED.

S33. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.

S34. PIT GRATE, FRAMES AND SOLID COVERS SHALL BE CLASS B IN NON TRAFFIC AREAS AND CLASS D IN TRAFFICABLE AREAS IN ACCORDANCE WITH AS3996.

S35. ALL GRATES SHALL BE PROVIDED WITH A LOCKING CLIP.

S36. MAXIMUM FRONT ENTRY PIPE:-
STRAIGHT ENTRY - Ø750
SKEW ENTRY 45° - Ø525

S37. PIT GRATING TO BE GALVANISED STEEL TYPE 'WELDLOK' OR APPROVED EQUIVALENT.

S38. SUBSOIL DRAINAGE
SUBSOIL PIPES SHALL BE LAID AT A MIN GRADE OF 0.5% (U.N.O.).

S39. ADDITIONAL SUBSOIL DRAINAGE SHALL BE LAID TO SUIT SITE CONDITIONS AND GROUNDWATER PRESENCE AS DIRECTED.

S40. SUBSOIL PIPES SHALL BE LAID BEHIND KERBS IN CUT AREAS OF THE SITE.

S41. SUBSOIL DRAINAGE SHALL CONSIST OF A SLOTTED 100mm DIAMETER PLASTIC PIPE WRAPPED IN GEOTEXTILE AND PLACED A MINIMUM OF 600mm BELOW THE SUBGRADE LEVEL AND COVERED WITH 500mm OF 20mm GRAVEL. PROVIDE A MINIMUM OF 150mm GRAVEL AROUND SUBSOIL PIPE. TRENCH TO BE LINED WITH GEOTEXTILE FABRIC TYPE BIDIM A24.

S42. GRATES TO PITS IN FOOTPATH AREAS SHALL BE HEEL SAFE COMPLYING WITH THE DISABLED ACCESS CODE.

S43. CONTRACTOR TO PROVIDE WORKSHOP COORDINATED DRAWINGS PRIOR TO COMMENCING WORKS ON SITE. WORKSHOP DRAWINGS TO BE REVIEWED AND APPROVED BY DESIGN ENGINEER.

S44. ALL EXTERNAL AREA TO HAVE A MINIMUM 1% FALL TO OUTLETS PROVIDED.

S45. PROVIDE OVERFLOWS TO ALL AREAS TO ARCHITECT'S SPECIFICATIONS.

S46. ALL RAINWATER OUTLETS TO OPEN AREAS SHALL BE SPS TRUFLO TYPE TIA100F UNLESS NOTED OTHERWISE. DO NOT INSTALL BALCONY OUTLETS OR SIMILAR IN AREAS SUBJECT TO DIRECT RAINFALL.

S47. ALL PVC PIPES TO HAVE EXPANSION JOINTS IN ACCORDANCE WITH AS/NZS2032.

S48. CONNECT ALL TUNDISHES FROM MECHANICAL A/C UNITS INTO STORMWATER ONLY IF ACCEPTABLE BY THE LOCAL COUNCIL BUILDER TO VERIFY AND OBTAIN CONSENT.

S49. ALL GRATED TRENCH DRAINS IN FRONT OF FIRE EXIT DOORS TO BE SET 100mm AWAY FROM DOOR (TYPICAL).

EROSION CONTROL

EC1. BEFORE EARTHWORKS CAN COMMENCE THE EROSION & SEDIMENT CONTROL MEASURES MUST BE IN PLACE.

EC2. DURING THE CONSTRUCTION PERIOD, THESE CONTROL MEASURES WILL NEED TO BE INSPECTED & MAINTAINED REGULARLY, ESPECIALLY AFTER STORM EVENTS, BY THE CONTRACTOR.

EC3. ALL WORK IS TO BE CARRIED OUT TO PREVENT EROSION, CONTAMINATION & SEDIMENTATION OF THE STORAGE SITE, SURROUNDING AREAS & DRAINAGE SYSTEMS.

EC4. MINIMIZE DISTURBED AREA COVERED WITH NATURAL VEGETATION. ONLY THOSE AREAS DIRECTLY REQUIRED FOR CONSTRUCTION ARE TO BE DISTURBED.

EC5. INSTALL EROSION/SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION OR EXCAVATION OPERATIONS.

EC6. PROVIDE SILT FENCE/STRAW BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.

EC7. ISOLATE EXISTING STORMWATER PITS WITH STRAW BALES OR SILT TRAPS TO FILTER ALL INCOMING FLOWS.

EC8. DO NOT STOCKPILE EXCAVATED MATERIAL ON THE ROAD WAY.

EC9. DIVERT CLEAN WATER FROM UNDISTURBED AREAS AROUND THE WORKING AREAS.

EC10. CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING AND LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

EC11. TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL

EC12. ADOPT TEMPORARY MEASURES AS MAY BE NECCESSARY FOR EROSION & SEDIMENT CONTROL, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
DRAINS: TEMPORARY DRAINS AND CATCH DRAINS, SPREADER BANKS OR OTHER
STRUCTURES: TO DISPERSE CONCENTRATED RUNOFF.
SILT TRAPS: CONSTRUCTION AND MAINTENANCE OF SILT TRAPS TO PREVENT DISCHARGE OF SCOURED MATERIAL TO DOWNSTREAM AREAS.

EC13. AFTER RAIN, INSPECT, CLEAN, AND REPAIR IF REQUIRED, TEMPORARY EROSION & SEDIMENT CONTROL MEASURES.

EC14. REMOVE TEMPORARY EROSION &SEDIMENT CONTROL MEASURES WHEN THEY ARE NO LONGER REQUIRED.

EC15. COMPLY WITH THE REQUIREMENTS OF LANDCOM'S MANAGING URBAN STORMWATER SOIL AND CONSTRUCTION 'THE BLUE BOOK' LATEST EDITION.

EC16. THE EROSION & SEDIMENT CONTROL PLAN PROVIDED IS ONLY INDICATIVE. THE CONTRACTOR SHOULD PREPARE A DETAILED ESCP SUITABLE FOR THE SPECIFIC SITE CONDITIONS.

Issue	Last revision title	By	Date	Status
B	ISSUED FOR SSDA	SH	12.08.25	06
A	ISSUED FOR SSDA	SH	06.08.25	06

Issuer internal sequence and revision history
1-preliminary 2-development application 3-construction certificate
4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

Quality Control

		DATE
DRAWN	PE	12.08.25
CHECKED	SH	12.08.25
DESIGNED	PE	12.08.25
VERIFIED	PE	12.08.25
APPROVED	SH	12.08.25

ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER

DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.

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PROJECT
15a & 15b MOSELEY STREET
& 25-31 DONALD STREET,
CARLINGFORD.
STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	02

Status: ISSUED FOR APPROVAL

Drawing Title
NOTES & LEGEND

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW101	B

B	ISSUED FOR SSDA	SH	12.08.25	06
A	ISSUED FOR SSDA	SH	06.08.25	06
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PE	12.08.25
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SH	12.08.25
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PE	12.08.25
VERIFIED	DATE
PE	12.08.25
APPROVED	DATE
SH	12.08.25

ENGINEERS AUSTRALIA
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Scales

0m 2 4 6 8 10
SCALE 1:200 ON ORIGINAL SIZE

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PROJECT
15a & 15b MOSELEY STREET
& 25-31 DONALD STREET,
CARLINGFORD.
STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	03

Status ISSUED FOR APPROVAL

Drawing Title
EROSION AND SEDIMENT CONTROL PLAN

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW201	B

GENERAL NOTES

1. THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

GEOTEXTILE INLET FILTER

GEOTEXTILE INLET FILTER IS PLACED IN EVERY PIT WITHIN THE SITE TO ENSURE THE RUNOFF WATER DURING CONSTUCTION NOT ENTER THE PITS.

CLAY SOILS

A SYSTEM SHALL BE INSTALLED TO EITHER:

1. TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
2. TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL.

CONSTRUCTION NOTES

FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAT THE LENGTH OF THE INLET PIT

FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL

FORM AN ELLIPTICAL CROSS-SECTION OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY

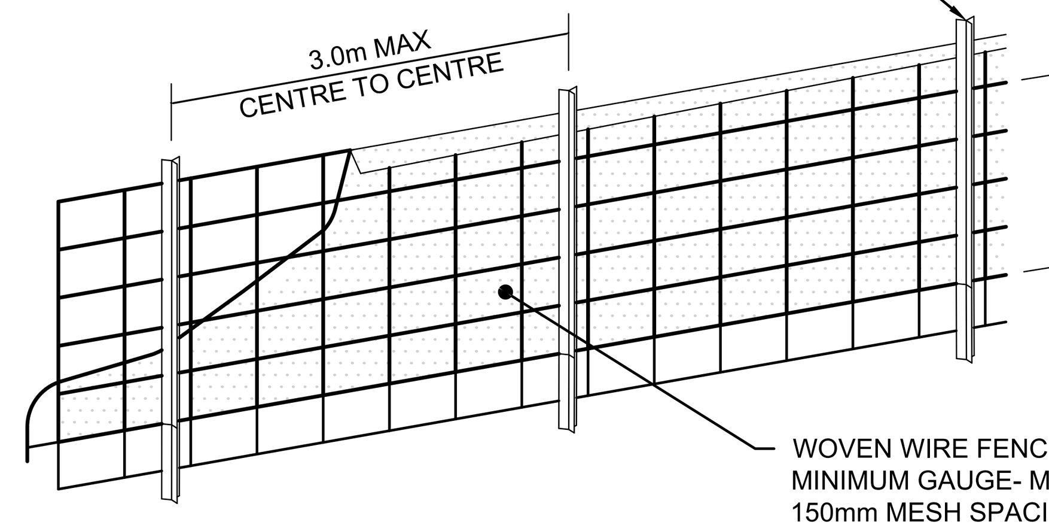
MAINTAIN THE OPENING WITH SPACER BLOCKS

FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER

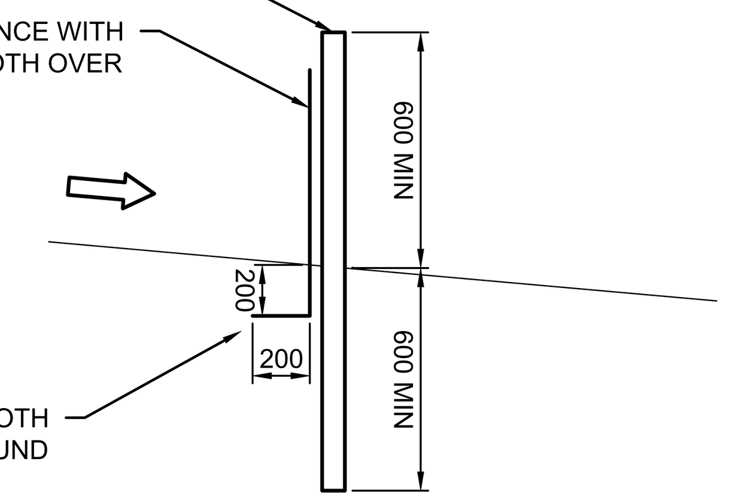
FIT TO ALL KERB INLETS AT SAG POINTS

EROSION & SEDIMENTATION CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
5. CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.



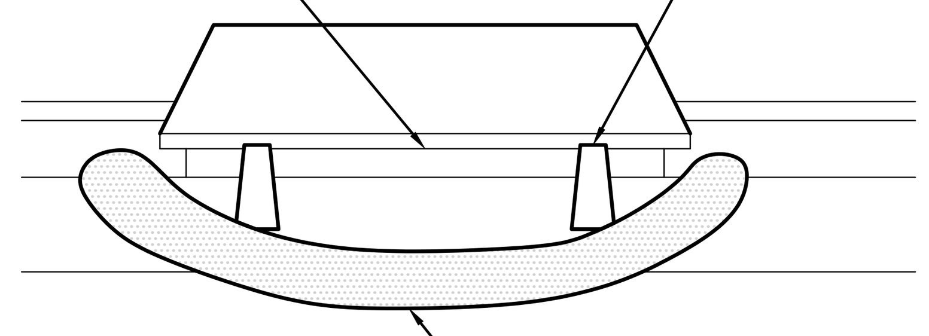
DIAGRAMMATIC VIEW

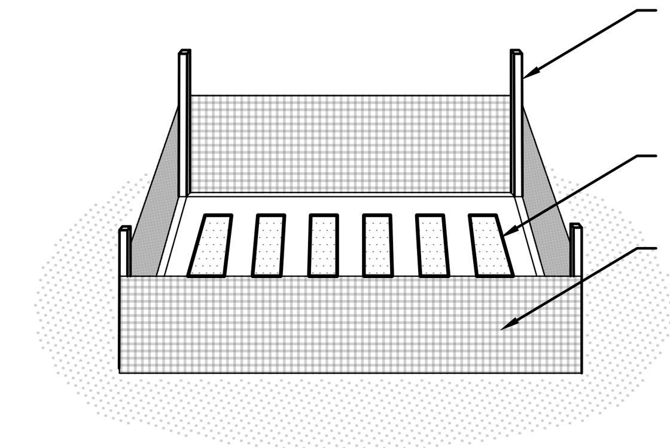


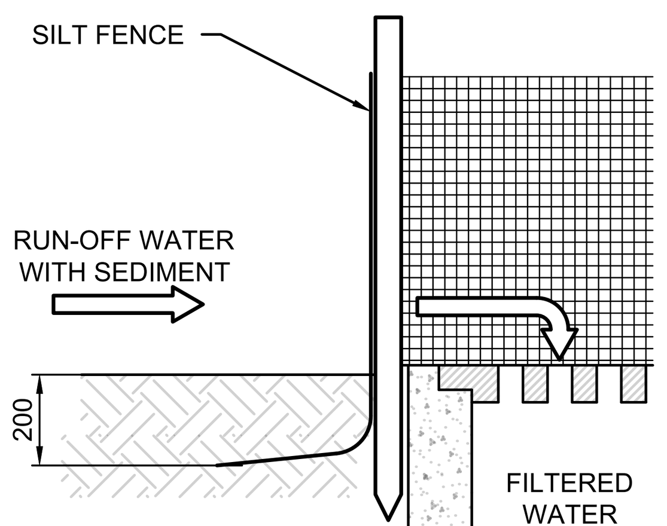
TYPICAL SECTION

SEDIMENT FENCE

NOT TO SCALE

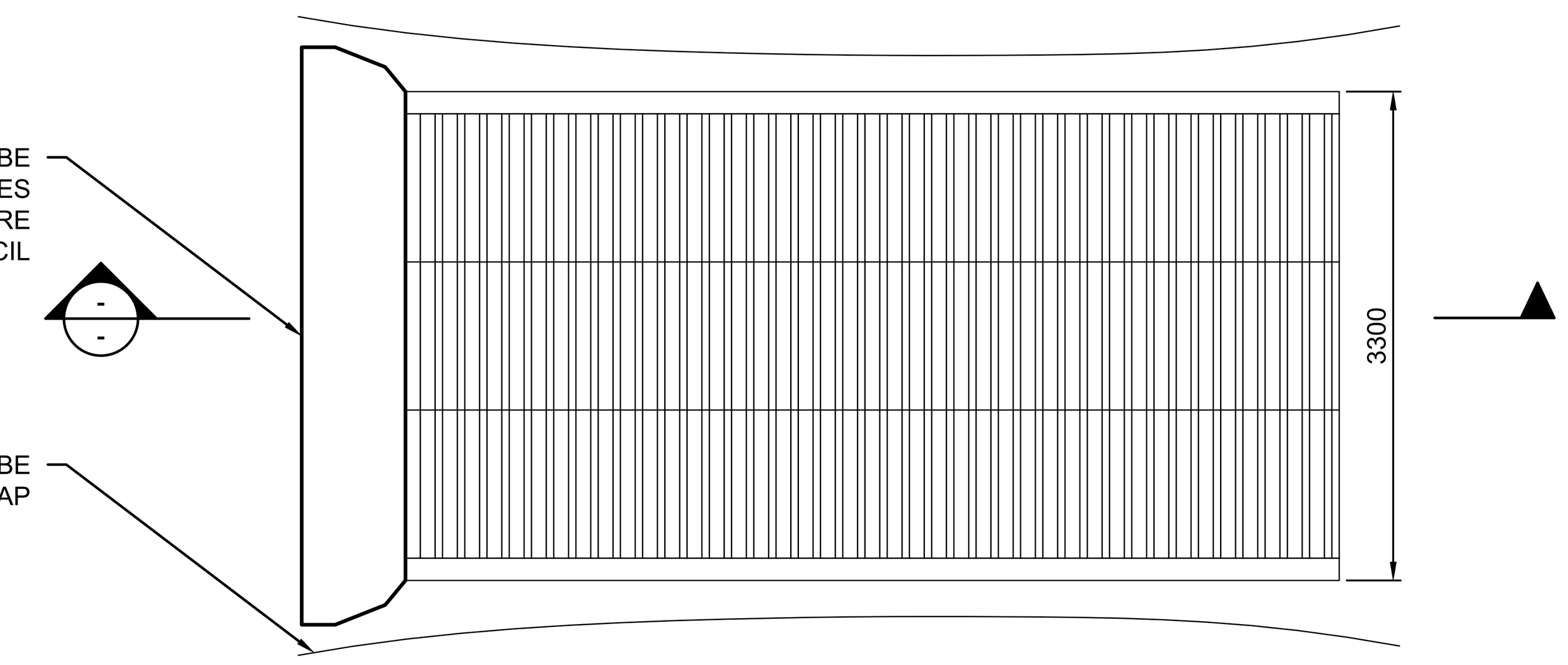






GEOTEXTILE INLET FILTER

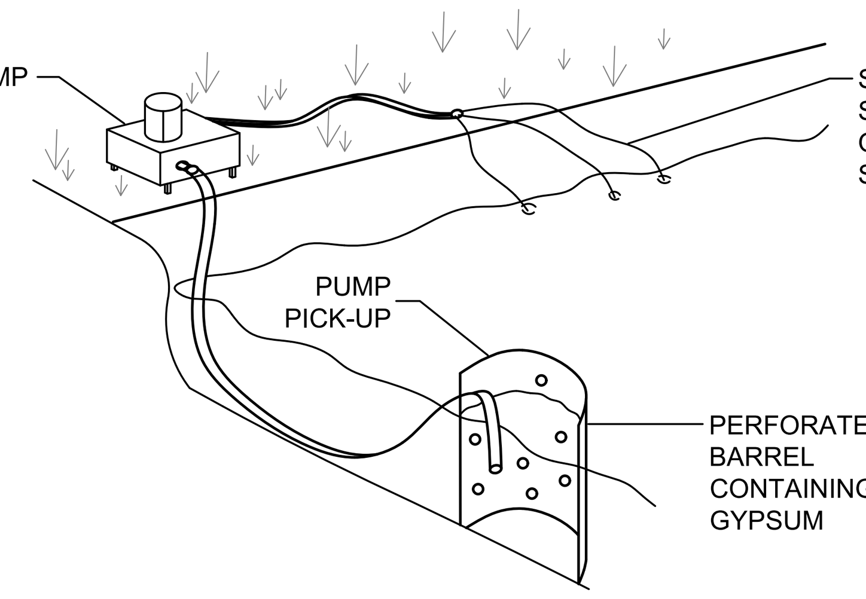
NOT TO SCALE



PLAN VIEW

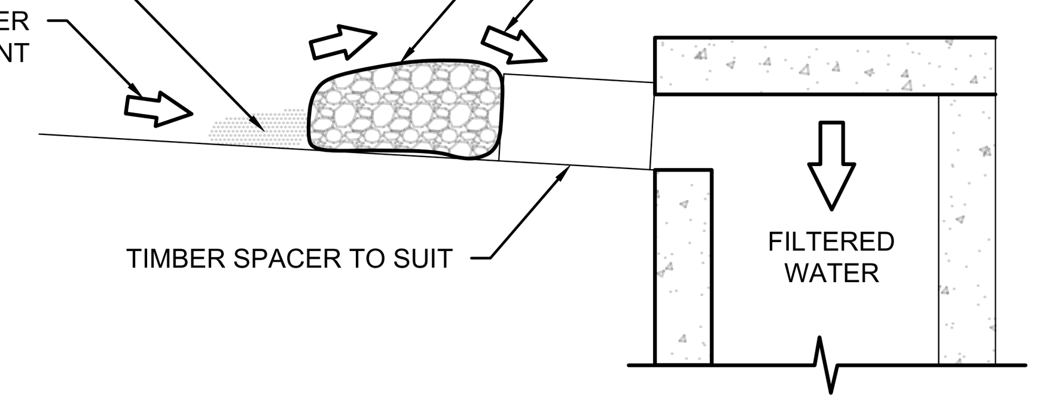
NOTE:

1. FLOCCULATION TO BE USED IF WATER IS NOT CLEAR (ie. SEDIMENT GREATER THAN 50 mg/L) PRIOR TO DISCHARGING FROM TEMPORARY PUMP OUT
2. FOR RATES & AGENTS SEE APPENDIX E OF NEW SOUTH WALES DEPARTMENT OF HOUSING "MANAGING URBAN STORMWATER SOILS & CONSTRUCTION".



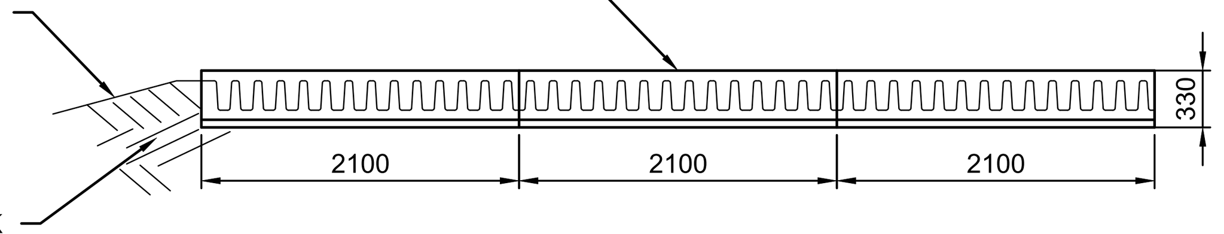
FLOCCULATION DETAIL

NOT TO SCALE



GRAVEL INLET FILTER (SAUSAGE)

NOT TO SCALE



TYPICAL SECTION

'CATTLE GRID' ALTERNATIVE

TEMPORARY CONSTRUCTION EXIT - NOT TO SCALE

Issue	Last revision title	By	Date	Status
B	ISSUED FOR SSDA	SH	12.08.25	06
A	ISSUED FOR SSDA	SH	06.08.25	06

Issuer internal sequence and revision history
1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

Quality Control

	DATE
DRAWN PE	12.08.25
CHECKED SH	12.08.25
DESIGNED PE	12.08.25
VERIFIED PE	12.08.25
APPROVED SH	12.08.25

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Scales

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A.B.N. 21 118 222 530

PROJECT

15a & 15b MOSELEY STREET & 25-31 DONALD STREET, CARLINGFORD.

STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	04

Status ISSUED FOR APPROVAL

Drawing Title

EROSION AND SEDIMENT CONTROL DETAILS

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW202	B

REFER DRAWING SW302 FOR CONTINUATION

A1 Plotted:Tuesday, 12 August 2025 1:57:59 PM By MASHIHIZADISGC. File Name:Z:\Produc...

Issue	Last revision title	By	Date	Status
B	ISSUED FOR SSDA	SH	12.08.25	06
A	ISSUED FOR SSDA	SH	06.08.25	06

Issuer internal sequence and revision history
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SURVEY			

Quality Control

DRAWN PE	DATE 12.08.25
CHECKED SH	DATE 12.08.25
DESIGNED PE	DATE 12.08.25
VERIFIED PE	DATE 12.08.25
APPROVED SH	DATE 12.08.25

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Scales
0m 1 2 3 4 5
SCALE 1:100 ON ORIGINAL SIZE

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STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	05

Status: ISSUED FOR APPROVAL

Drawing Title
STORMWATER DRAINAGE DESIGN
LOWER BASEMENT PLAN
SHEET 01 OF 02

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW301	B

REFER DRAWING SW301 FOR CONTINUATION

GEO-TECHNICAL NOTE:

GEOTECHNICAL REPORT PREPARED BY (morrow), DATED 21 NOVEMBER 2023, (Ref: P2914_01rev3) SUGGESTS,

SEEPAGE WAS NOT NOTED IN ANY OF THE BOREHOLES. MINOR SEEPAGE IS EXPECTED WITHIN OPEN EXCAVATIONS AT THE SOIL/ROCK BOUNDARY IN RESPONSE TO SURFACE WATER INFILTRATION DURING RAINFALL EVENTS.

'A REGIONAL GROUNDWATER TABLE HAS NOT BEEN ENCOUNTERED WITHIN THE PROPOSED DEPTH OF EXCAVATION. FOR ANY EXCAVATIONS AT THE SITE IT SHOULD BE EXPECTED THAT SEEPAGE WATER WILL BE ENCOUNTERED AT THE SOIL/ROCK INTERFACE AND IN JOINTS AND BEDDING PARTINGS WITHIN THE BEDROCK. SEEPAGE IN SHALE BEDROCK MAY BE ASSUMED AS TYPICALLY FLOWING DOWNWARDS TOWARD LOCAL DRAINAGE LINES OR REGIONAL WATER TABLE, ALONG HORIZONTAL BEDDING PLANES AND SUB-VERTICAL JOINTS. THE ROCK MASS PERMEABILITY WILL BE GOVERNED BY THE JOINTS, FAULTS AND BEDDING PLANES. .'

THEREFORE, STORMWATER ENGINEER IS TO BE NOTIFIED THE RESULT OF SEEPAGE MONITORING DURING BULK EXCAVATION TO REASSESS BASEMENT PUMP-OUT DRAINAGE DESIGN.

PUMP-OUT PIT NOTE:

INSTALL WITH THE FOLLOWING ITEMS:
- 900SQ HEAVY DUTY STEEL GRATED LID FOR ACCESS AND MAINTENANCE PURPOSES.
-CONFINED SPACE SIGN ABOVE PUMP OUT PIT FOR PUBLIC AWARENESS AND WARNING.
-STEP IRONS. REFER TO DETAILS.
-PUMPOUT PIT CONTROL BOX (CTRL) TO MANUFACTURERS SPECIFICATIONS. LOCATIONS TO BE CONFIRMED WITH ARCHITECT.
-PUMPS TO OPERATE IN ALTERNATE MODE TO INCREASE LIFESPAN
-INSTALL A FLASHING LIGHT AND PROBE AT ENTRY RAMP INTO THE BASEMENT IF REQUIRED BY THE LOCAL AUTHORITY TO INDICATE FAILURE IN PUMPS IN THE BASEMENT. DESIGN DETAILS BY ELECTRICAL CONSULTANT.
-USE ZENIT MAN 550/2/80 A1FT/50 OR EQUIVALENT DUAL PUMPS TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL.
-INSTALL 2x SUBMERSIBLE PUMPS EACH WITH A PUMP CAPACITY OF 10L/s AT 10.0m HEAD, FLOAT SWITCH AND CONTROL PANEL TO MANUFACTURER'S SPECIFICATIONS.

PUMP NOTE:

ALL STORMWATER PUMPS TO BE CLASS 1 ZONE 2 TO ELECTRICAL CONSULTANT'S REQUIREMENTS.

SURFACE GRADING NOTE:

SURFACES ARE TO BE GRADED TOWARDS SURFACE INLET PIT (GSIP) AND RAINWATER OUTLET (RWO) AT 1% MIN. FOR UNCOVERED AREA AND AT 0.5% MIN. FOR COVERED AREA AS PER AS2890.

SUBSOIL DESIGN CALCS:

100yr 2hr ARI STORM = 40.4mm/hr
ARI x 2 = 80.8mm
AREA OF DRIVEWAY
RAMP UNCOVERED = 85m²

VOLUME OF RUNOFF
V = A x d
= 85 x (80.4 / 1000)
= 6.834m³
VOLUME PROVIDED = 12.00m³

PUMP OUT PIT:
RL: 98.65
TWL: 98.35
IL: 96.35
AVE. EFFECTIVE DEPTH: 2.00m
AREA: 3.00x2.00 = 6.00m²
VOLUME REQUIRED: 6.83m³
VOLUME PROVIDED: 12.00m³
SUBSOIL PUMP-OUT PIT TO CONTAIN
2 x SUBMERSIBLE PUMPS WITH
DUTY OF 10L/s FOR 10m HEAD.
USE MAN 550/2/80 A1FT/50 FROM ZENIT
PUMP OR APPROVED EQUIVALENT.

STORMWATER RISING MAIN.
1x 80mm uPVC AS1477 CLASS 12.

INSTALL WARNING FLASH LIGHT TO PROVIDE INDICATION OF PUMP FAILURE

PUMPOUT PIT CONTROL BOX TO MANUFACTURERS SPECIFICATIONS.

LIFT TO BE TANKED TO STRUCTURAL ENGINEER'S DETAIL. (TYP.)

TEST PIT IN HYDRANT PUMP ROOM TO HYDRAULIC CONSULTANTS SPECIFICATIONS

Ø100mm DISH DRAIN OUTLET TYP SPS OR APPROVED EQUIVALENT. (TYP.)

PROVIDE 100mm HOB ALONG THE BASEMENT PERIMETER DRAIN (TYP.)

PROVIDE 150mm WIDE GAP BETWEEN WALL AND SLAB FILLED WITH BLUE METAL AGGRIGATE AND SUBSOIL UNDER TO PERIMETER WALL OF BASEMENT.

RECESS/ CUT IN KERB TO FORM DISH DRAIN ALONG WET WALL (TYP.) REFER TO DETAILS

GSIP 450x450 RL: 98.70 IL : 97.60
GSIP 900x900 RL: 98.65 IL : 97.69
GSIP 600x600 RL: 98.65 IL : 97.76
GSIP 600x600 RL: 98.65 IL : 97.84
GSIP 450x450 RL: 98.65 IL : 97.92
GSIP 450x450 RL: 98.70 IL : 98.19
GSIP 450x450 RL: 98.70 IL : 98.25
GSIP 450x450 RL: 98.70 IL : 98.00
GSIP 450x450 RL: 98.70 IL : 98.07
GSIP 450x450 RL: 98.70 IL : 98.15
GSIP 450x450 RL: 98.70 IL : 98.25

GTD 200x200mm RL: 98.750 IL: 98.550 HEAVY DUTY GRATE AND FRAME CLASS "C"

LOWER BASEMENT
FFL 98.750

DRIVEWAY 1
DRIVEWAY 2

B	ISSUED FOR SSDA	SH	12.08.25	06	
A	ISSUED FOR SSDA	SH	06.08.25	06	
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APPROVED SH	12.08.25

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SCALE 1:100 ON ORIGINAL SIZE

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STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	06

Status: ISSUED FOR APPROVAL

Drawing Title
STORMWATER DRAINAGE DESIGN
LOWER BASEMENT PLAN
SHEET 02 OF 02

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW302	B

A1 Plotted Tuesday, 12 August 2025 - 07:49 PM By AKASHKADAGOLI - File Name:Z:\Production\20240241 15b & 15b Moseley Street, Carlingford\Civil\240241 - SW-S05\240241-SW-S05-SW302.dwg


CONSTRUCT NEW GULLY PIT WITH 1.8m LINTEL TO COUNCIL'S STANDARD DRAWINGS.
CONSTRUCT NEW PIT WITH LIGHT DUTY GRATE AND FRAME.
LAY RC PIPE INSIDE EASEMENT AS SHOWN.
PROPOSED EASEMENT TO DRAIN WATER 3m WIDE.
BELOW GROUND OSD TANK
RL:101.75 WITHIN UPPER BASEMENT LAYOUT AND RL104.55 FOR THE GRATES RISERS TO GROUND FLOOR
TWL:101.30
CL: 99.70
IL:99.64
MAX. HEIGHT:1.60m
AVG. HEIGHT:1.50m
AREA:194.30m²
VOLUME REQUIRED:287.22m³
VOLUME PROVIDED:291.45m³
CONSTRUCT NEW PIT WITH LIGHT DUTY GRATE AND FRAME.
CONSTRUCT NEW GULLY PIT WITH 1.8m LINTEL TO COUNCIL'S STANDARD DRAWINGS.
RECONSTRUCT KERB AND GUTTER TO COUNCIL STANDARDS
0.6m WIDE SAWCUT FROM EXG. KERB AND GUTTER
LAY RC PIPE UNDER ROAD TO COUNCIL STANDARDS.
CONSTRUCT NEW GULLY PIT WITH 2.4m LINTEL TO COUNCIL'S STANDARD DRAWINGS.
EXISTING PIT TO BE RECONSTRUCTED TO 1200x1200mm WITH 2x450x900mm BUTTERFLY GRATE IN NEW DRIVEWAY. ALLOW TO MAKE EXISTING AND NEW PIPE CONNECTIONS GOOD
CONSTRUCT NEW GULLY PIT WITH 2.4m LINTEL TO COUNCIL'S STANDARD DRAWINGS. ALLOW TO EXTEND PIT CHAMBER INTO FOOTPATH TO ACCOMMODATE EXISTING PIPE
CONNECT EXISTING PIPE TO NEW PIT. BREAK INTO WALL AND MAKE GOOD
EXISTING GULLY PIT TO BE DEMOLISHED. CONSTRUCT NEW GULLY PIT WITH 1.8m LINTEL TO COUNCIL'S STANDARD DRAWINGS. ALLOW TO EXTEND AND ADJUST EXISTING INLET PIPE INTO NEW PIT AND MAKE GOOD.
BELOW GROUND STORMFILTER CHAMBER: RL: 101.75 OVERFLOW WEIR RL: 101.12 FALSE FLOOR RL:99.90 USE 18x690 PSorb STORMFILTER CARTRIDGES.
TRAFFICABLE AND COS AREAS TO BE CONNECTED TO STORMFILTER CHAMBER
ROOF DOWNPIPES TO BE CONNECTED TO RAINWATER TANK WITH MINIMUM 20kL VOLUME
20kL UNDERGROUND RAINWATER TANK: RL: 101.75 OVERFLOW WEIR RL: 101.40 IL:100.00 ACCESS LIDS TO EXTEND TO GROUND FLOOR LEVEL FOR MAINTENANCE
OVERFLOW PIPE FROM RWT INTO SF CHAMBER
SF WEIR INTO HED CHAMBER
HED WEIR INTO OFF LINE OSD CHAMBER
GSIP 450x450mm RL:103.00 IL: 102.20
GSIP 1200x1200mm RL:101.90 IL: 99.59
GSIP 1200x1200mm RL:101.60 IL: 99.51
Ø225mm uPVC
Ø300mm uPVC
Ø375mm RCP
PROPOSED BOUNDARY PIT RL:101.15 IL:99.45
OFP
OSD
RWT
SF
HED
SWD
RW
1.01
1.02
1.03
1.04
1.05
1.06
1.07
1.08
1.09
1.10
2.01
2.02
2.03
2.04
2.05
3.01
1 SW561
2 SW561
3 SW561
4 SW561
5 SW561
6 SW562
7 SW562
8 SW562
9 SW562
10 SW562
EXISTING PIT TO BE DEMOLISHED. CONSTRUCT NEW PIT WITH LIGHT DUTY GRATE AND FRAME TO ACCOMMODATE NEW STORMWATER LINE.
ALLOW TO EXTEND AND ADJUST EXISTING INLET PIPE INTO NEW PIT AND MAKE GOOD.
PROPOSED EASEMENT TO DRAIN WATER 3m WIDE.
CONSTRUCT NEW PIT WITH LIGHT DUTY GRATE AND FRAME.
CONSTRUCT NEW PIT WITH LIGHT DUTY GRATE AND FRAME.
PROPOSED EASEMENT TO DRAIN WATER 2.1m WIDE.
PROPOSED EASEMENT TO DRAIN WATER 2.4m WIDE.
CONSTRUCT NEW PIT WITH LIGHT DUTY GRATE AND FRAME.

B	ISSUED FOR SSDA	SH	12.08.25	06
A	ISSUED FOR SSDA	SH	06.08.25	06
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SURVEY			

Quality Control

DRAWN PE	DATE 12.08.25
CHECKED SH	DATE 12.08.25
DESIGNED PE	DATE 12.08.25
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Scales

0m 2 4 6 8 10
SCALE 1:200 ON ORIGINAL SIZE

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STORMWATER CONCEPT DESIGN

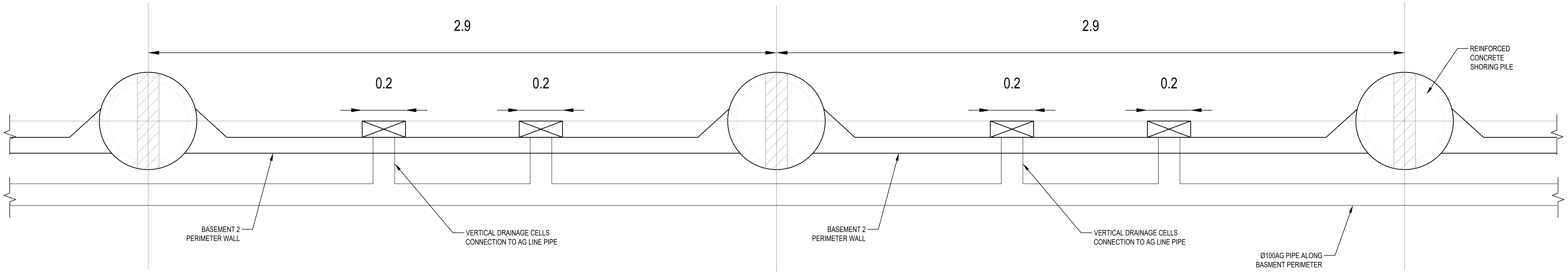
Grid	Datum	Sheet
	A.H.D.	07

Status ISSUED FOR APPROVAL

Drawing Title
STORMWATER DRAINAGE DESIGN GROUND FLOOR PLAN

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW303	B

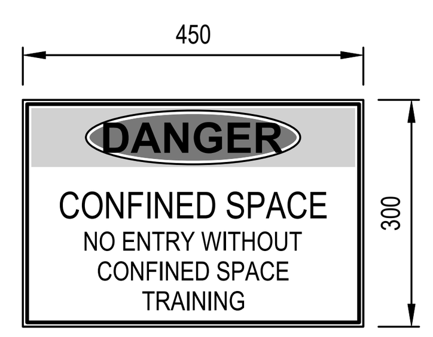
A1 Plotted:Wednesday, 13 August 2025 9:33:44 AM By MASHIZADISGC. File Name:Z:\Pro



DETAIL (PLAN VIEW)

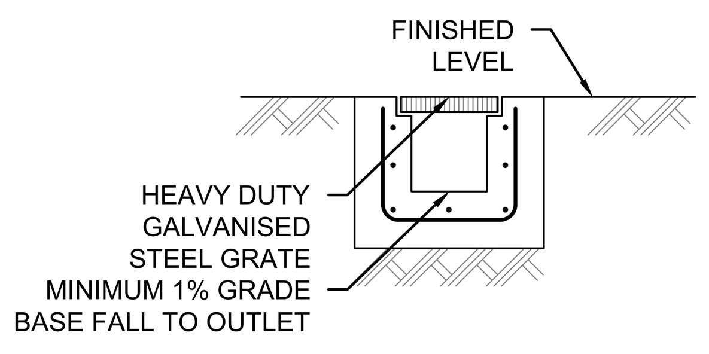
VERTICAL DRAINAGE CELL CONNECTION TO AGLINE PIPE

N.T.S



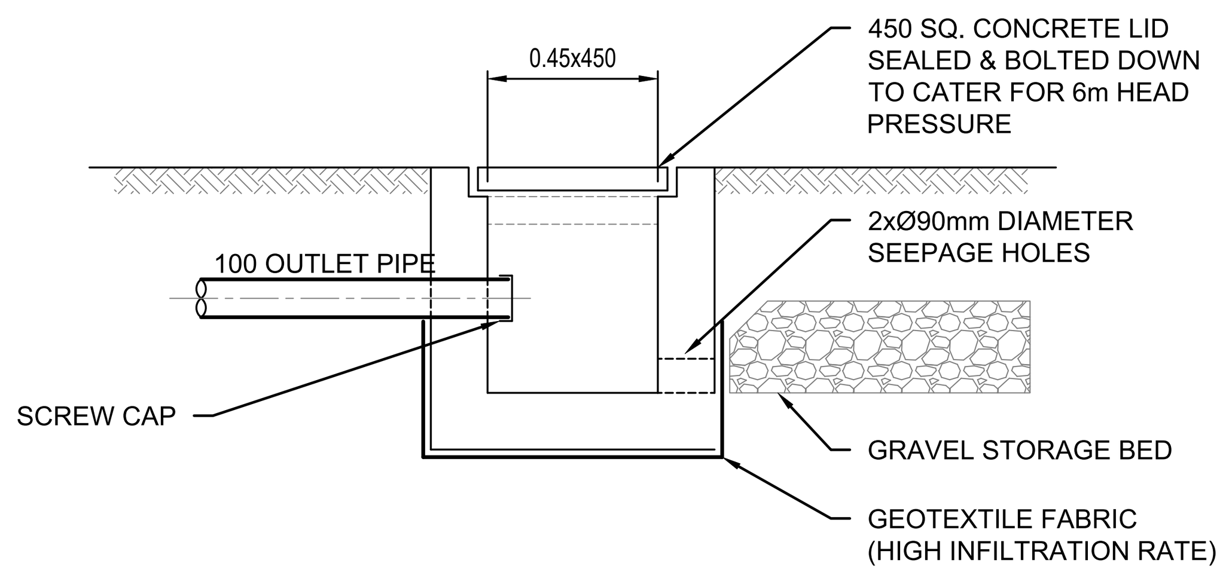
CONFINED SPACE SIGN

SCALE 1: 10



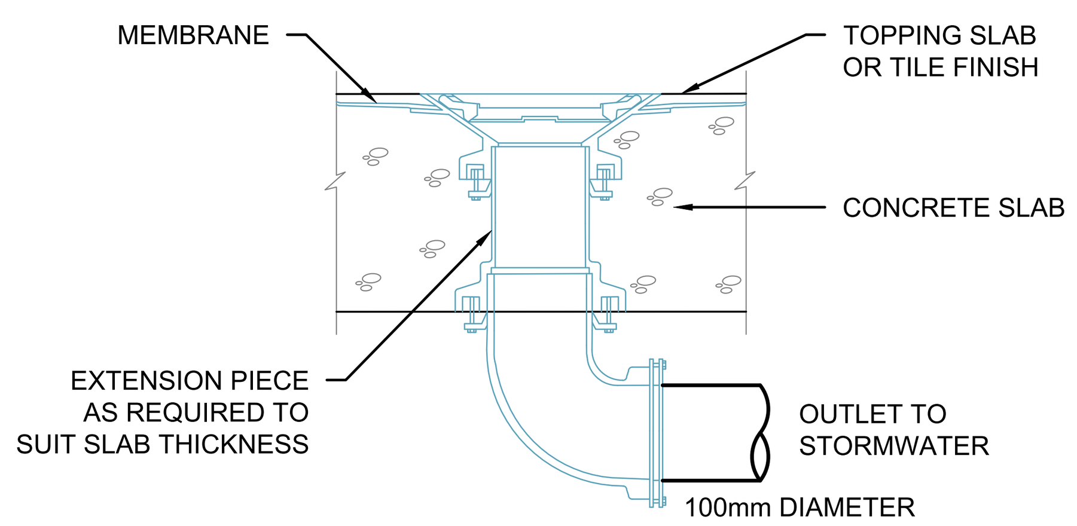
GRATED TRENCH DRAIN

SCALE 1: 20



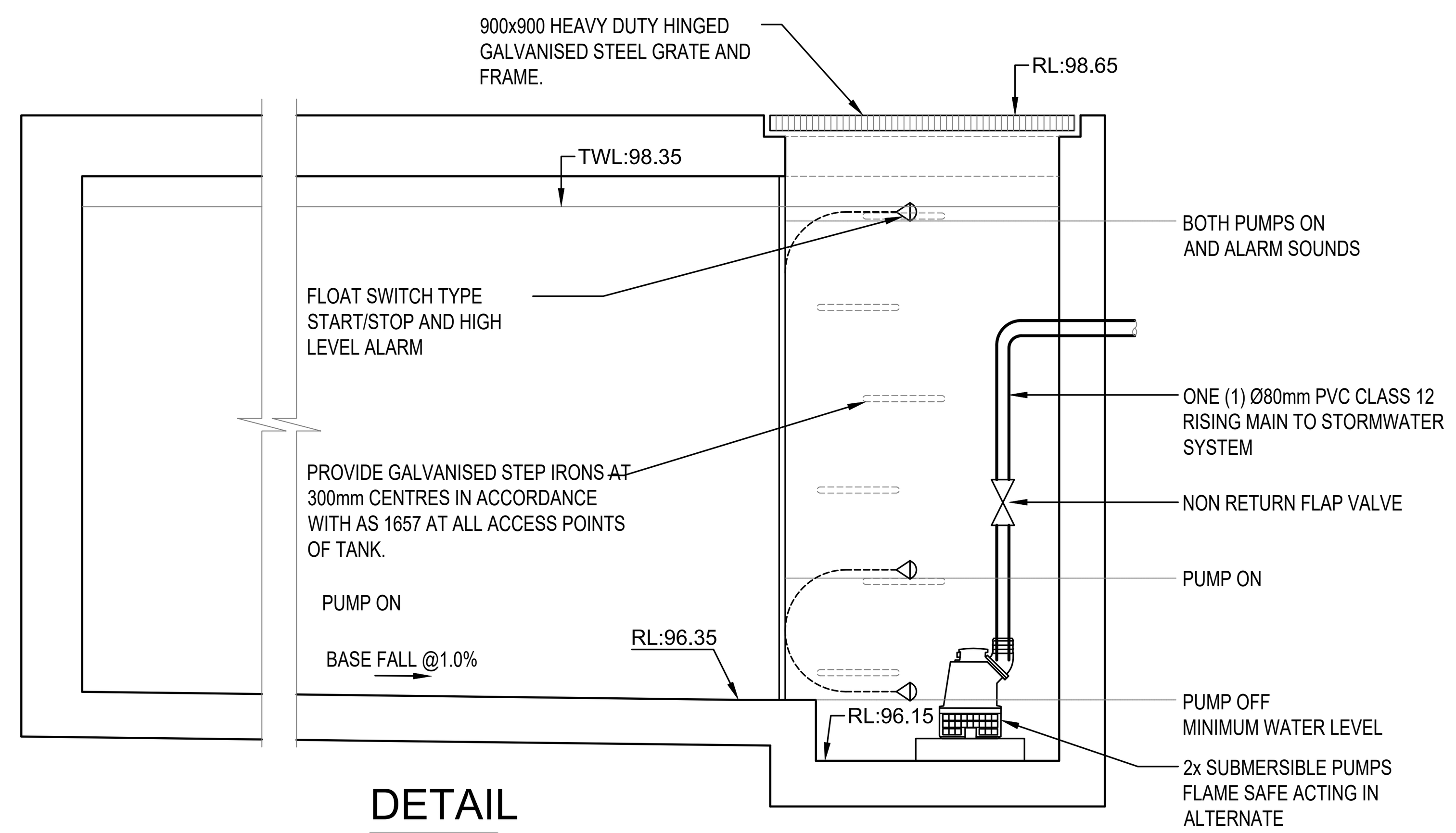
CLEANING EYE PIT

SCALE 1:20



RAINWATER OUTLET

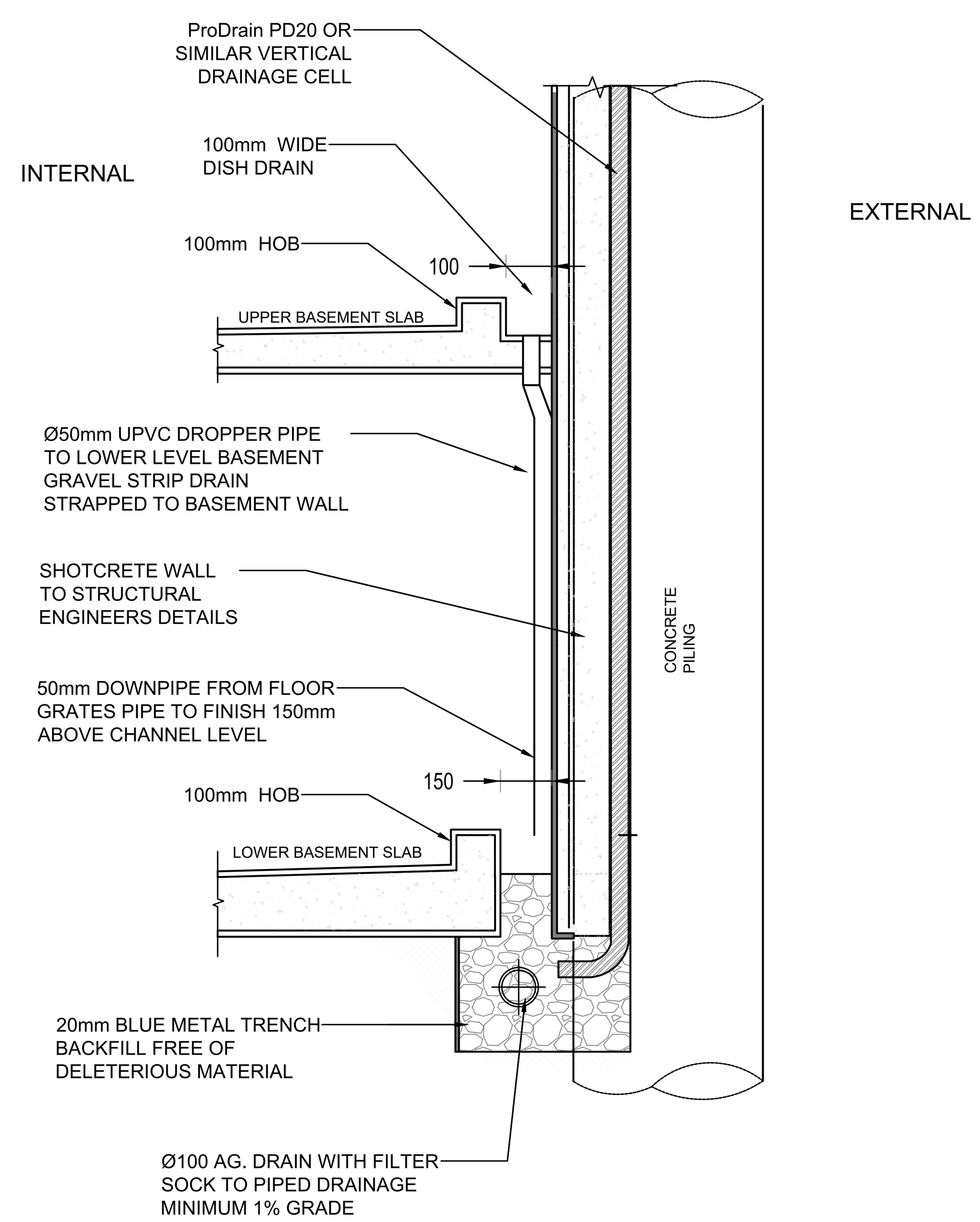
N.T.S.

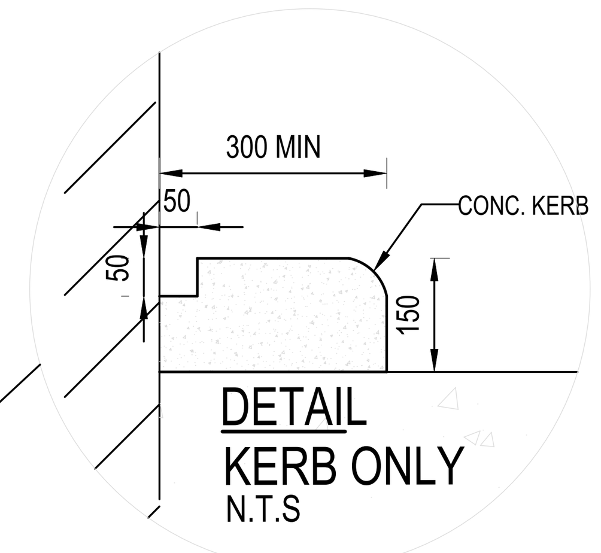


DETAIL

SUBSOIL PUMP OUT PIT

SCALE 1:10

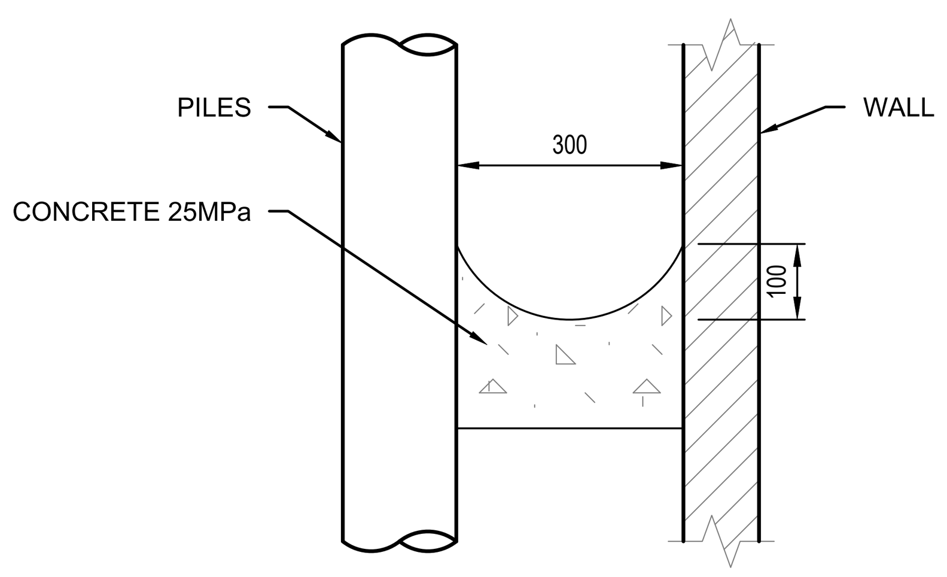




DETAIL

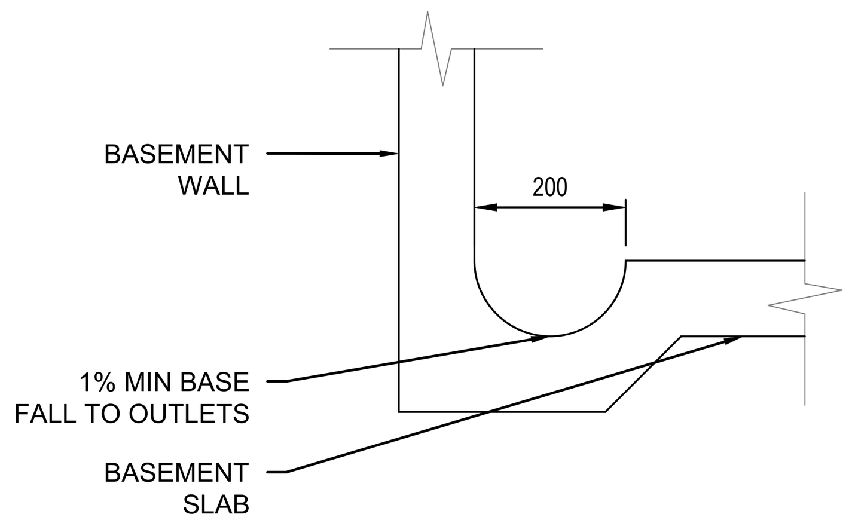
KERB ONLY

N.T.S



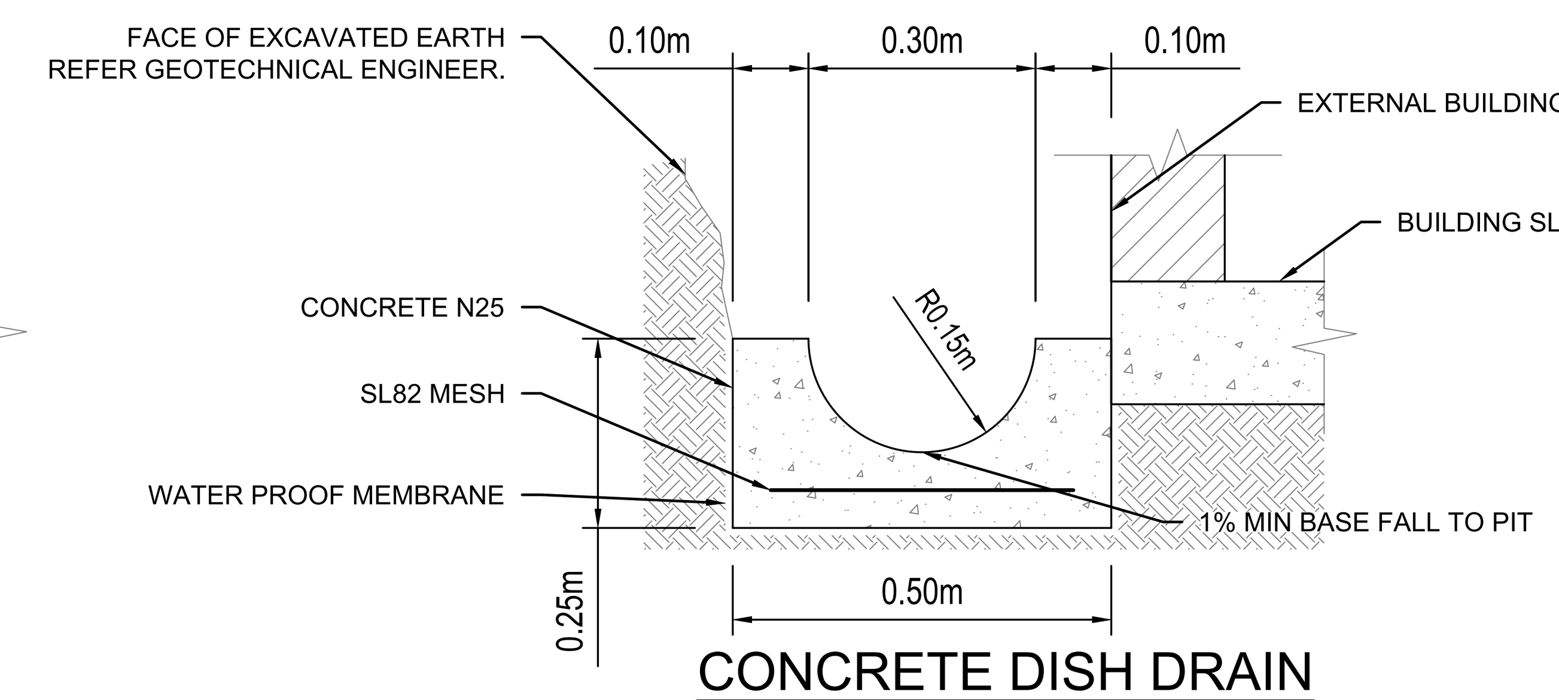
DISH DRAIN

SCALE 1: 10



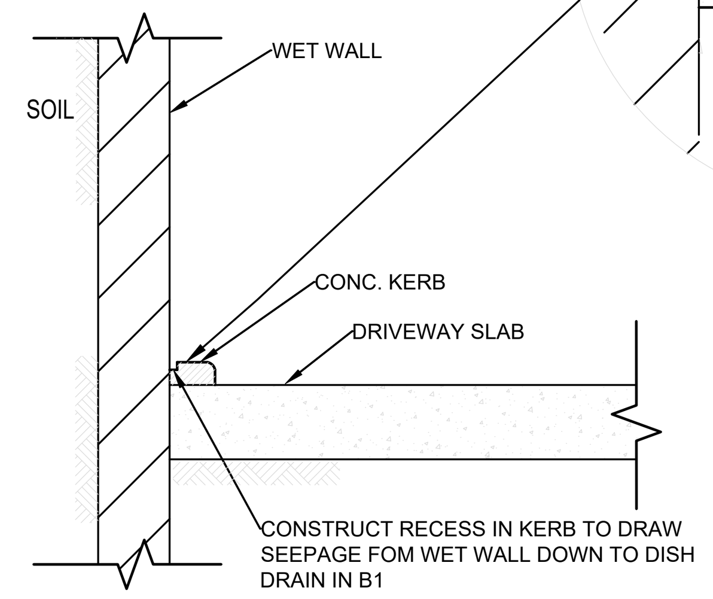
DISH DRAIN

SCALE 1: 10



CONCRETE DISH DRAIN

SCALE 1: 10



TYPICAL KERB RECESS DETAIL

N.T.S

TYPICAL BASEMENT STRIP AND GRAVEL TRENCH DRAIN DETAIL

NOT TO SCALE

Issue	Last revision title	By	Date	Status
B	ISSUED FOR SSDA	SH	12.08.25	06
A	ISSUED FOR SSDA	SH	06.08.25	06

Issuer internal sequence and revision history

1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

Quality Control

DRAWN PE	DATE 12.08.25
CHECKED SH	DATE 12.08.25
DESIGNED PE	DATE 12.08.25
VERIFIED PE	DATE 12.08.25
APPROVED SH	DATE 12.08.25

ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER

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Scales

0m 0.1 0.2 0.3 0.4 0.5 SCALE 1:10 ON ORIGINAL SIZE

0m 0.2 0.4 0.6 0.8 1.0 SCALE 1:20 ON ORIGINAL SIZE

0m 1 2 3 4 5 SCALE 1:100 ON ORIGINAL SIZE

Client

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PROJECT

15a & 15b MOSELEY STREET & 25-31 DONALD STREET, CARLINGFORD.

STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	08

Status: ISSUED FOR APPROVAL

Drawing Title: STORMWATER DRAINAGE DESIGN DETAILS SHEET 01 OF 02

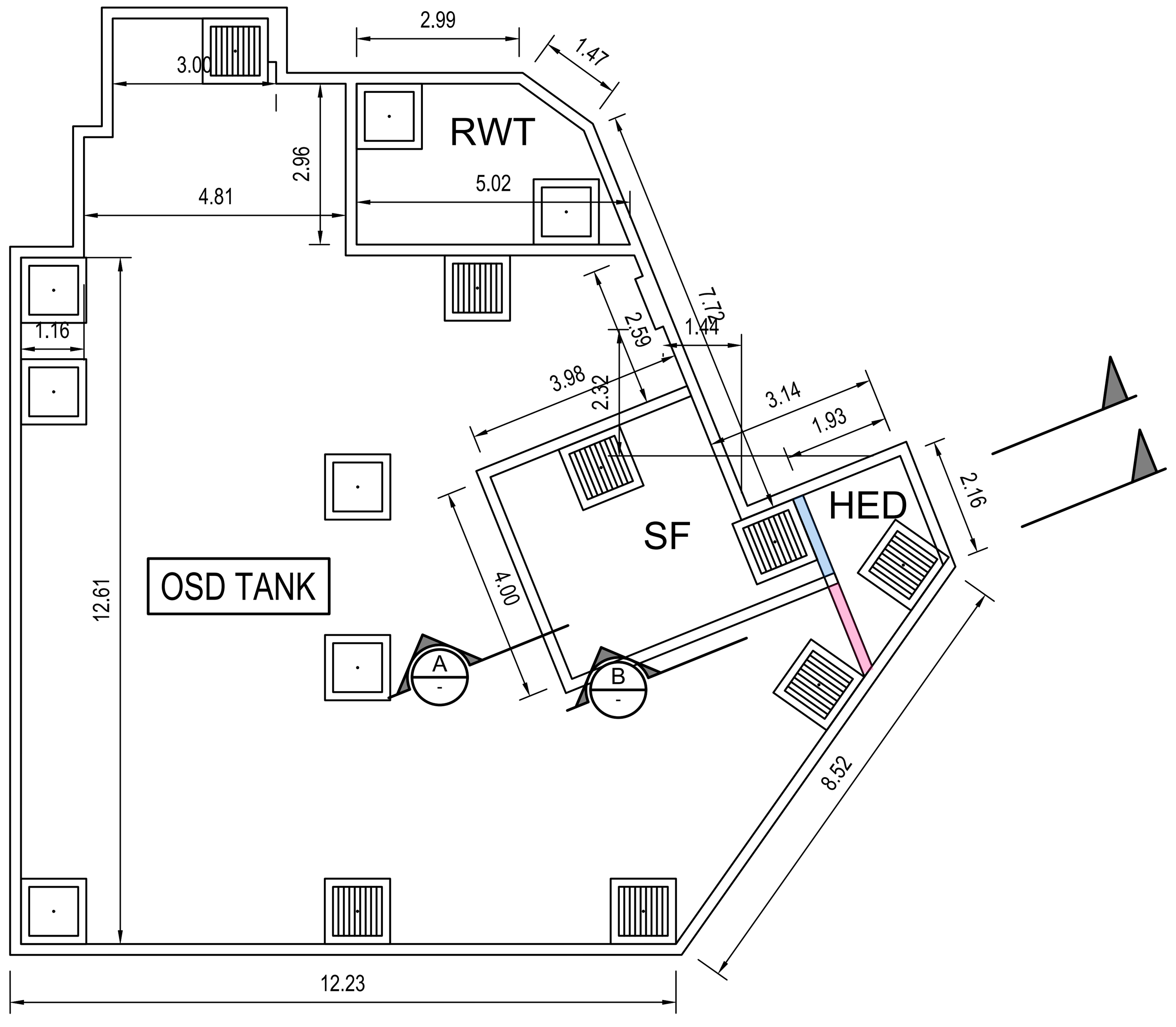
Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW401	B

PARRAMATTA CITY COUNCIL - OSD CALCULATIONS

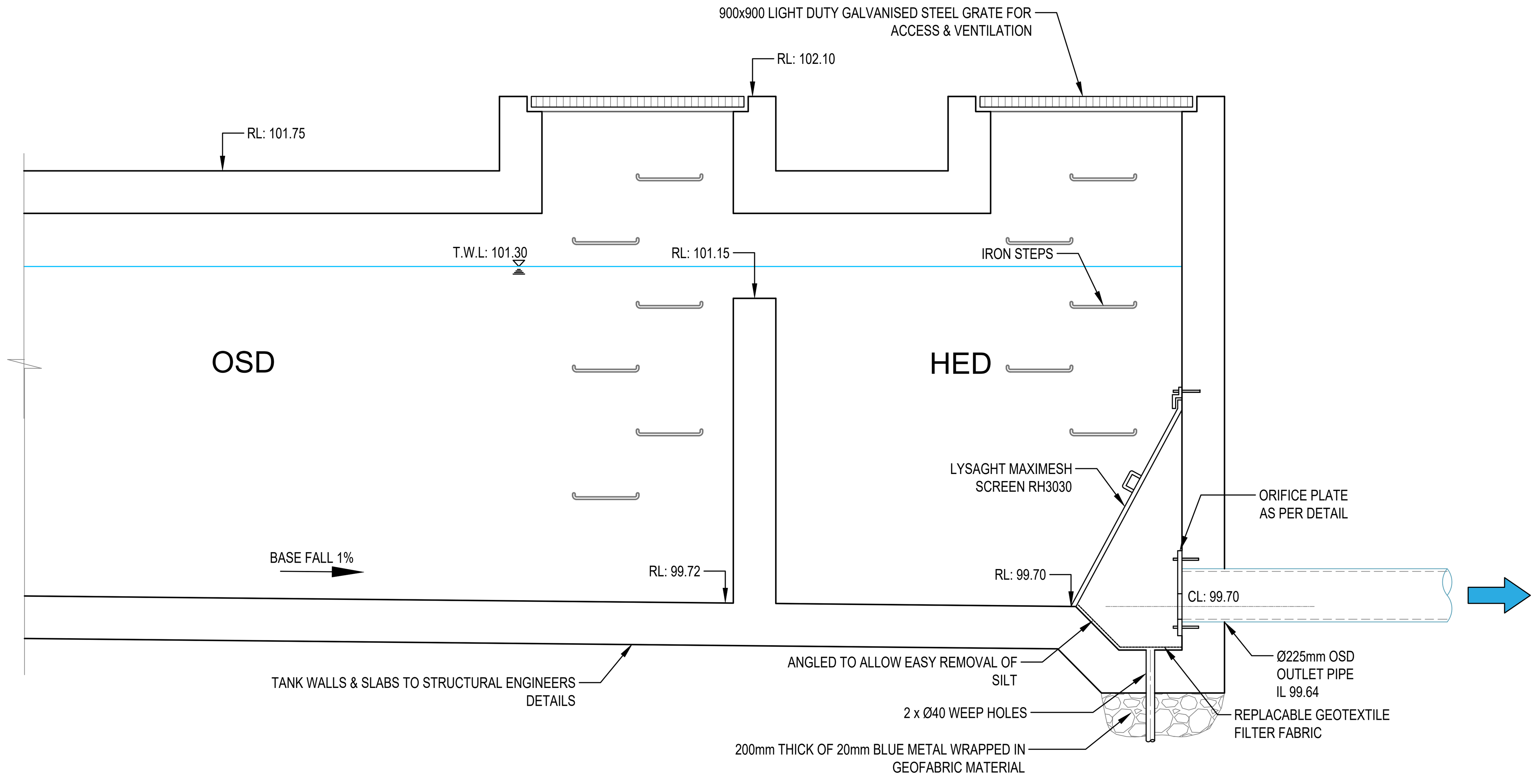
Project: Proposed Development — Lot No.
Location: 15a-15b Moseley St & 25-31 Donald St, Carling — DP No.
Phone: 02 88834239

OSD Catchment	UPRCT		UPRCT - Drowned	
Site Area	0.595		0.59500	
Basic Storage Volume	279.65		279.65	
Basic Discharge	47.60		47.60	
Area of Site to Storage	0.545	92%	0.54500	92%
Percentage of Site	91.60		91.60	
Storage per ha of contributing area	513.12		513.12	
Volume/PSD Adjustment	71.05		71.05	
PSD for site	38.690		38.690	
Maximum Head to Orifice Centre	1.60		1.60	
Calculated Orifice Diameter	0.119		0.124	
Maximum discharge	38.721		33.165	
Head for high early discharge	1.450		0.850	
High Early Discharge	36.862	95%	30.576	79%
Mean Discharge	37.792		31.870	
Average Discharge per Hectare	69.342		58.478	
Final Site Storage Ratio	525		595	
Site Storage Volume	286.23		324.20	
Volume Provided	291.45	102%	325.00	100%

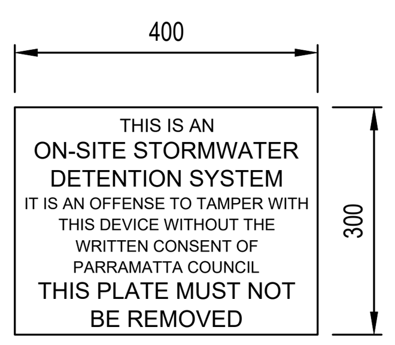
Checked By:
Date Checked: 13-Aug-25



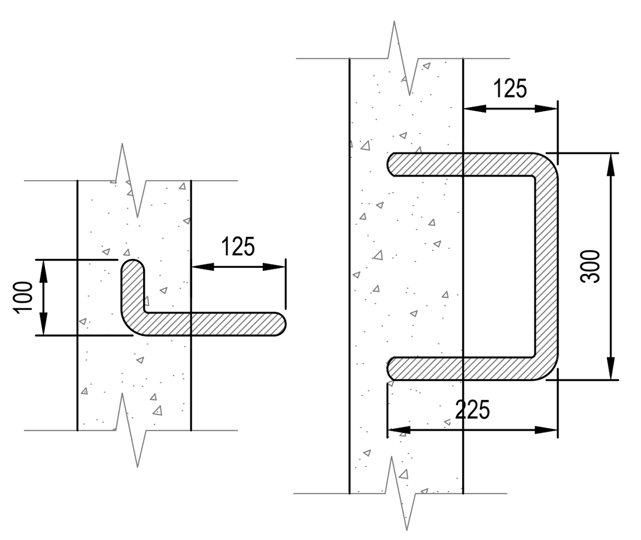
OSD/RWT/SF PLAN & DIMENSIONS (m)
SCALE 1:100



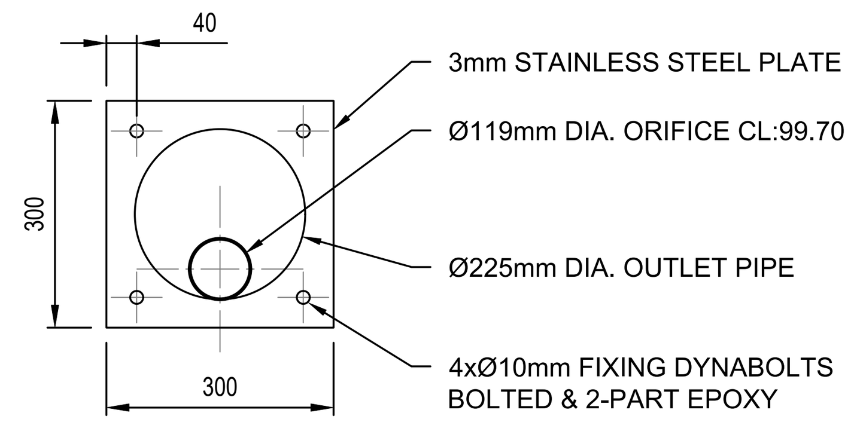
SECTION B



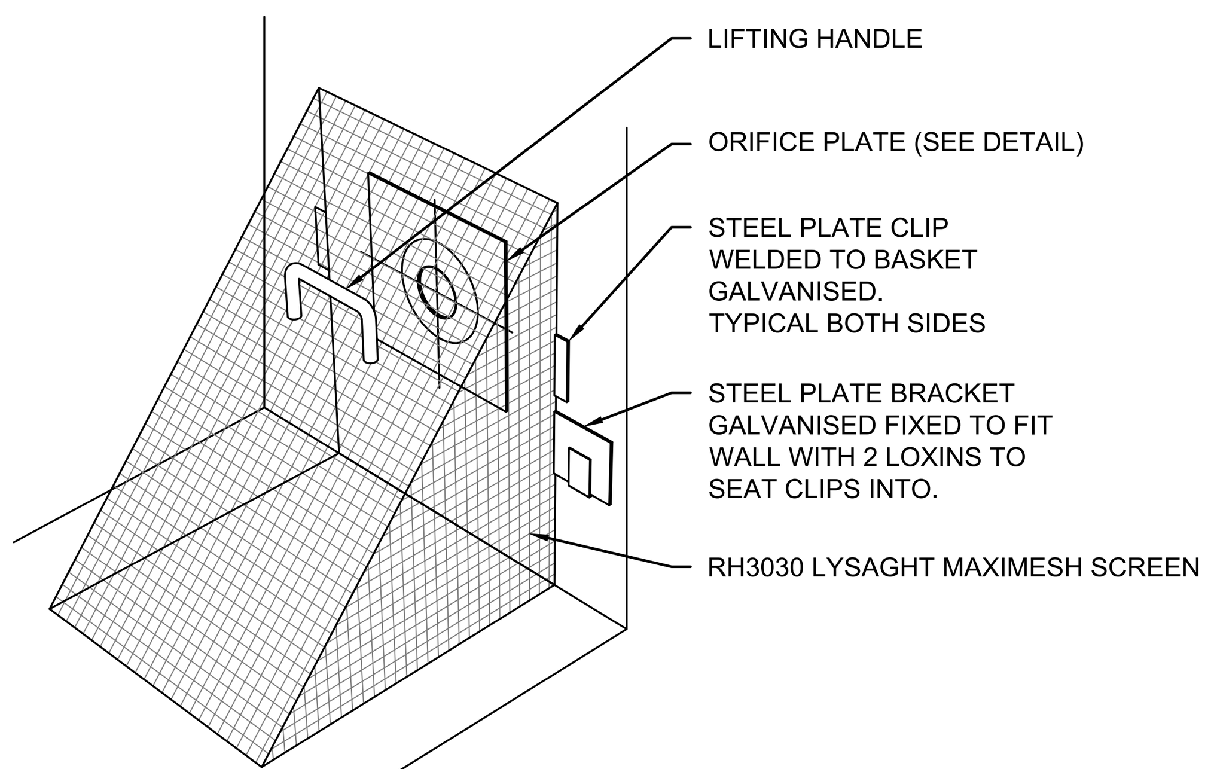
OSD SIGN
SCALE 1: 10



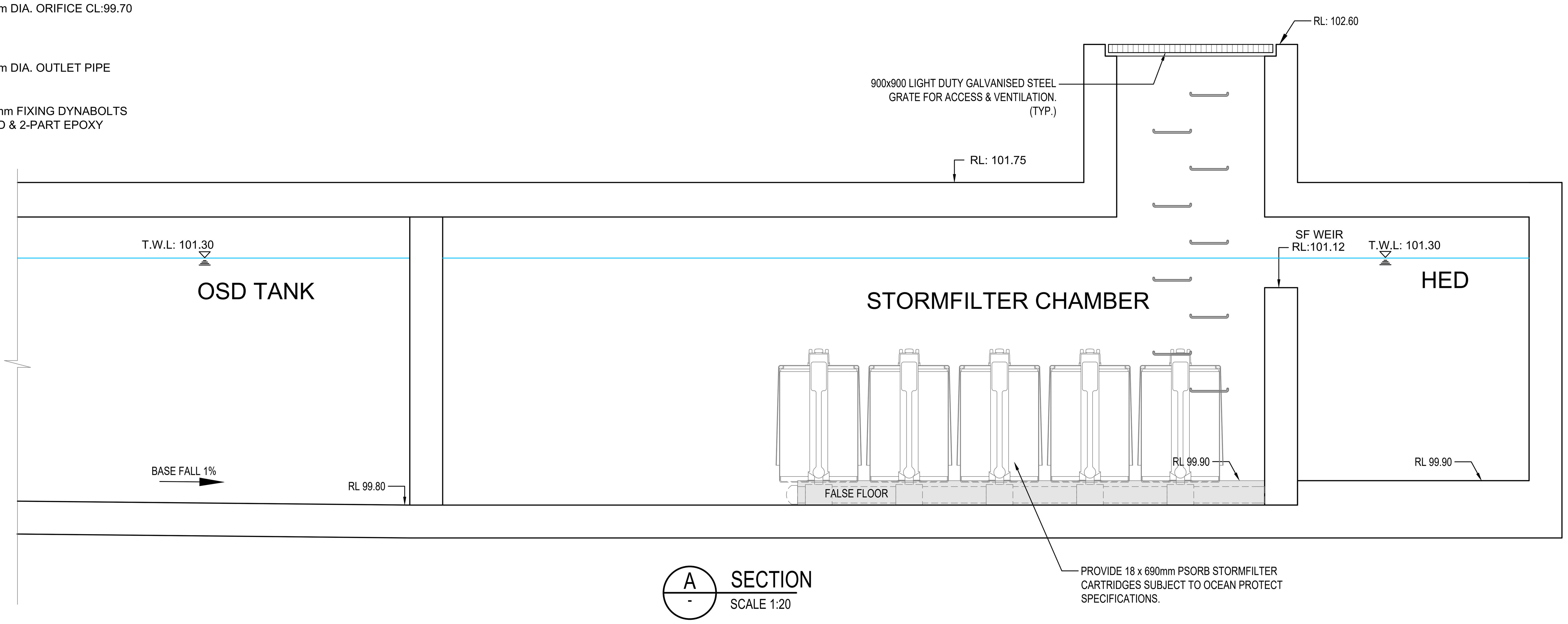
STEP IRONS
SCALE 1: 10



ORIFICE PLATE
SCALE 1: 10



DEBRIS SCREEN
N.T.S.



SECTION A
SCALE 1:20

Issue	Last revision title	By	Date	Status
B	ISSUED FOR SSDA	SH	12.08.25	06
A	ISSUED FOR SSDA	SH	06.08.25	06

Issuer internal sequence and revision history
1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

Quality Control

DRAWN	PE	DATE 12.08.25
CHECKED	SH	DATE 12.08.25
DESIGNED	PE	DATE 12.08.25
VERIFIED	PE	DATE 12.08.25
APPROVED	SH	DATE 12.08.25

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Scales
SCALE 1:20 ON ORIGINAL SIZE
SCALE 1:50 ON ORIGINAL SIZE
SCALE 1:100 ON ORIGINAL SIZE

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PROJECT
15a & 15b MOSELEY STREET & 25-31 DONALD STREET, CARLINGFORD.
STORMWATER CONCEPT DESIGN

Grid | Datum A.H.D. | Sheet 09

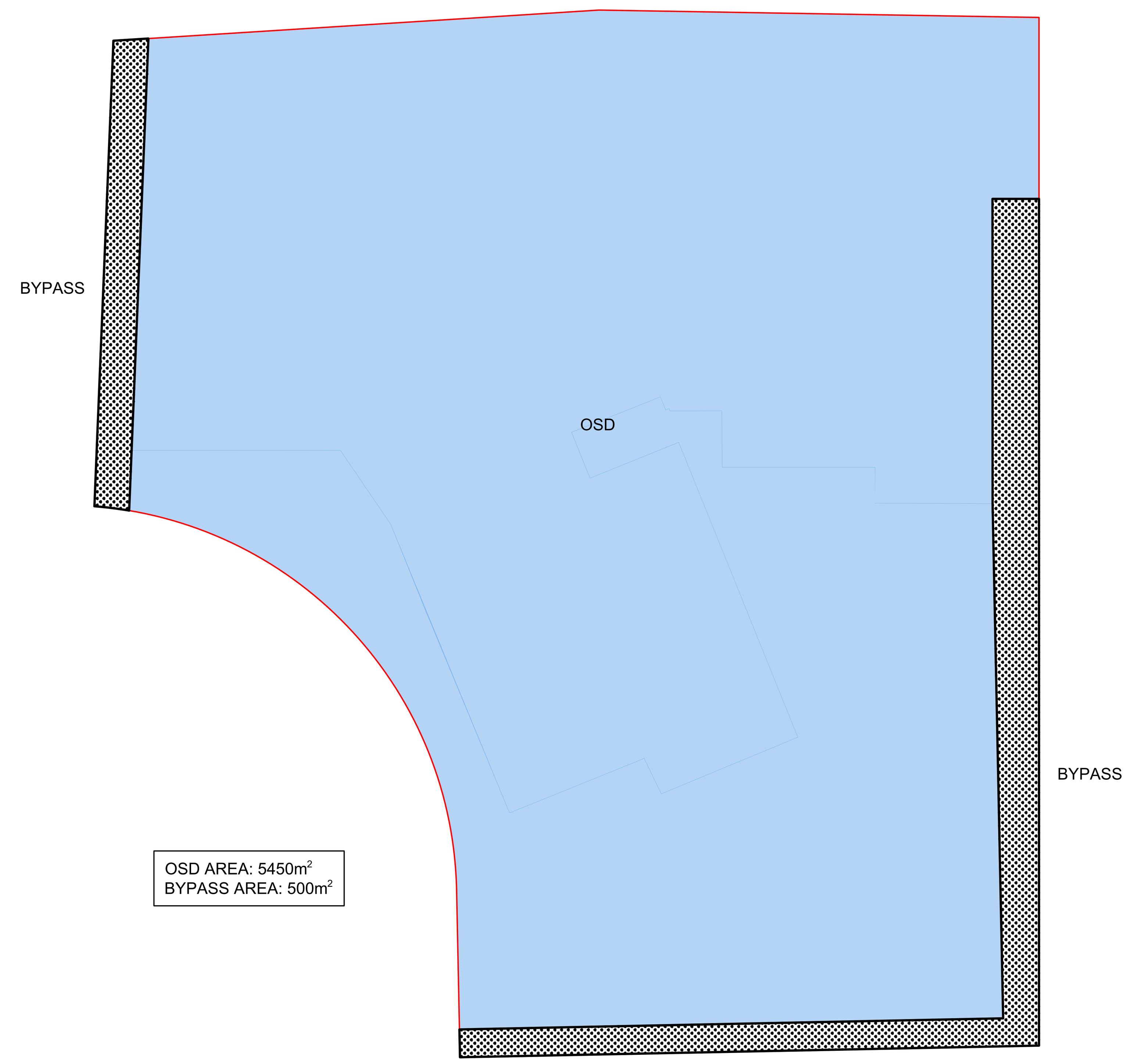
Status: ISSUED FOR APPROVAL

Drawing Title
STORMWATER DRAINAGE DESIGN DETAILS SHEET 02 OF 02

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW402	B

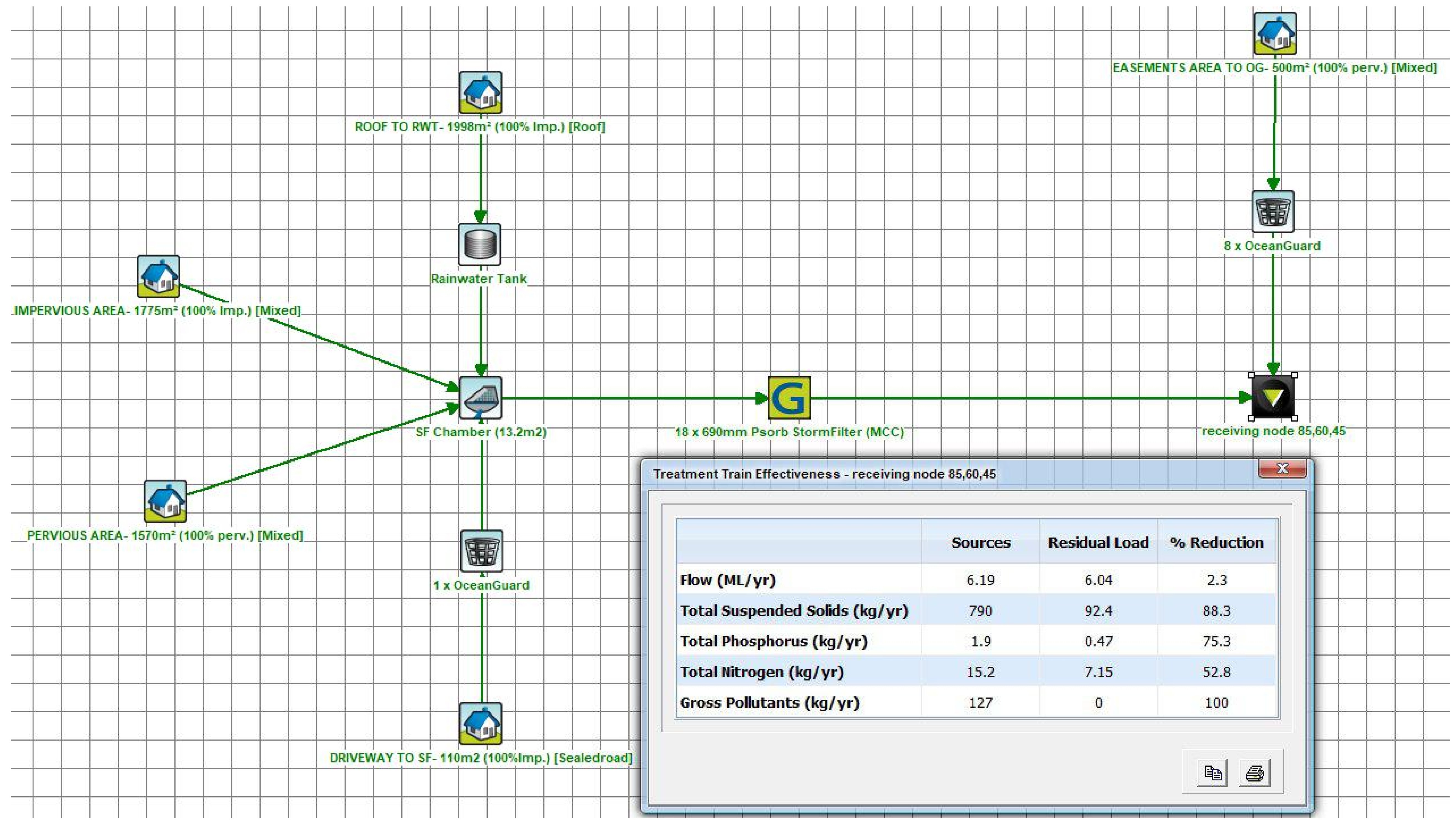
MUSIC CATCHMENT PLAN

SCALE 1:250



OSD CATCHMENT PLAN

SCALE 1:500



	Sources	Residual Load	% Reduction
Flow (ML/yr)	6.19	6.04	2.3
Total Suspended Solids (kg/yr)	790	92.4	88.3
Total Phosphorus (kg/yr)	1.9	0.47	75.3
Total Nitrogen (kg/yr)	15.2	7.15	52.8
Gross Pollutants (kg/yr)	127	0	100

A1 Plotted:Tuesday, 12 August 2025 2:19:42 PM By MASIHIZADISGC. File Name:Z:\Production\2024\20240241 15a & 15b Moseley Street, Carlingford\Civil\CAD\S05 - SW SSDA\20240241_S05-SW501.dwg

Issue	Last revision title	By	Date	Status
B	ISSUED FOR SSDA	SH	12.08.25	06
A	ISSUED FOR SSDA	SH	06.08.25	06

Issuer internal sequence and revision history
1-preliminary 2-development application 3-construction certificate
4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

Quality Control

	DATE
DRAWN PE	12.08.25
CHECKED SH	12.08.25
DESIGNED PE	12.08.25
VERIFIED PE	12.08.25
APPROVED SH	12.08.25

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Chartered Professional Engineer
MEMBER

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Scales

0m 2.5 5 7.5 10 12.5
SCALE 1:250 ON ORIGINAL SIZE

0m 5 10 15 20 25
SCALE 1:500 ON ORIGINAL SIZE

Client

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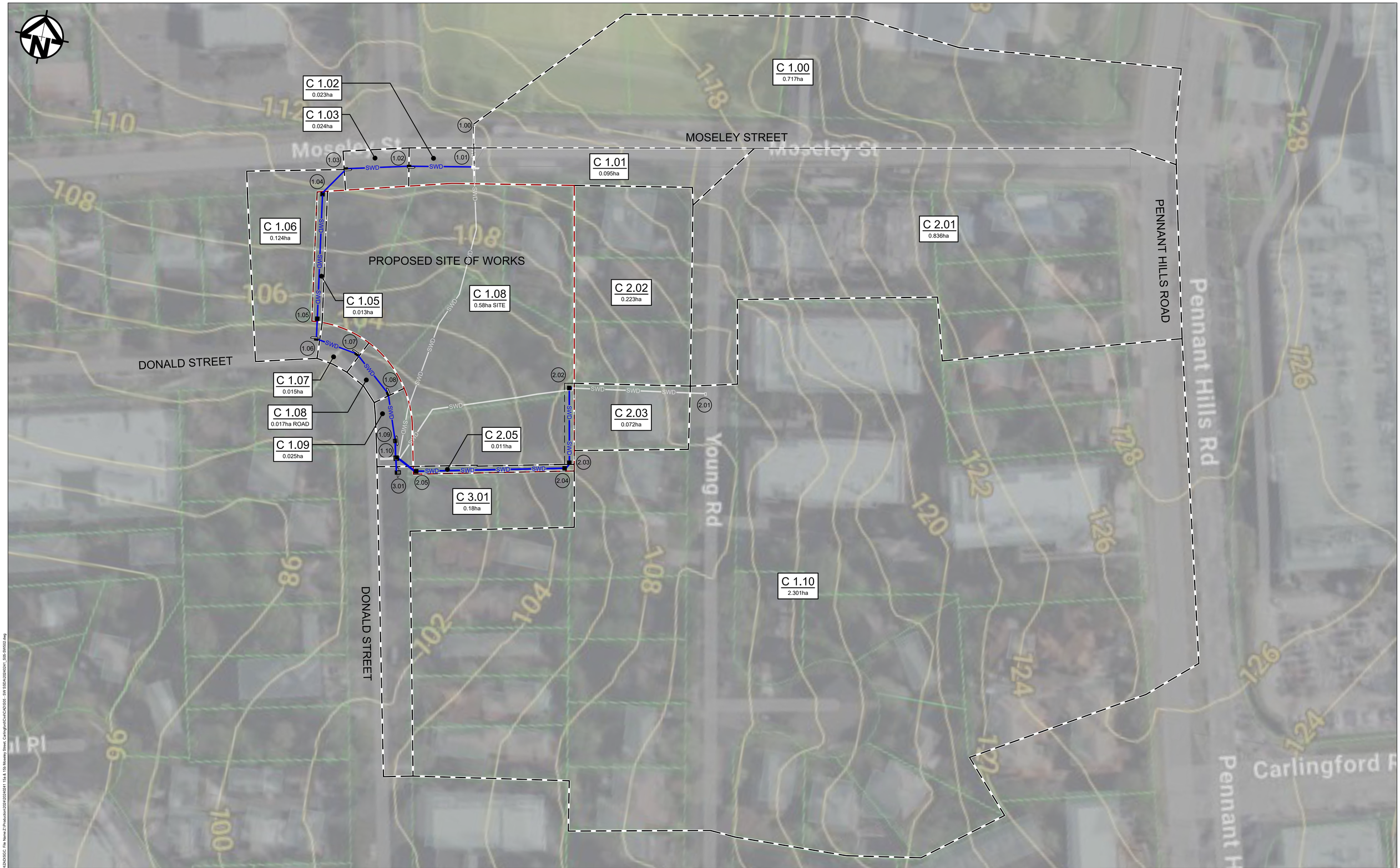
PROJECT
15a & 15b MOSELEY STREET
& 25-31 DONALD STREET,
CARLINGFORD.
STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	10

Status ISSUED FOR APPROVAL

Drawing Title
STORMWATER DRAINAGE DESIGN
MUSIC CATCHMENT PLAN & DETAILS
OSD CATCHMENT PLAN

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW501	B



B	ISSUED FOR SSDA	SH	12.08.25	06	
A	ISSUED FOR SSDA	SH	06.08.25	06	
Issue	Last revision title	By	Date	Status	

Issuer internal sequence and revision history

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Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
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Quality Control

DRAWN	DATE
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SH	12.08.25
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PE	12.08.25
VERIFIED	DATE
PE	12.08.25
APPROVED	DATE
SH	12.08.25

ENGINEERS AUSTRALIA
Chartered Professional Engineer
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Scales

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SCALE 1:500 ON ORIGINAL SIZE

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PROJECT
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& 25-31 DONALD STREET,
CARLINGFORD.
STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	11

Status ISSUED FOR APPROVAL

Drawing Title
STORMWATER DRAINAGE DESIGN
UPSTREAM CATCHMENT PLAN

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW502	B

A1 Printed Tuesday, 12 August 2025 2:19:32 PM By AKASH.DADSIG - File Name:Z:\Production\2024\20240241 15a & 15b Moseley Street, Carlingford\Civil\C4D\S05 - SW SS\20240241 - S05-SW502.dwg

SUB-CATCHMENT DETAILS

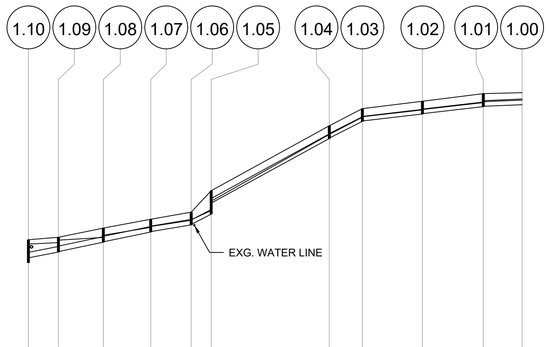
Name	Max Flow Q (cu.m/s)	Paved Max Q (cu.m/s)	Grassed Max Q (cu.m/s)	Paved Tc (min)	Grassed Tc (min)	Supp. Tc (min)	Due to Storm
C 3.01	0.07	0.063	0.007	10	14	2	5% AEP, 10 min burst, Storm 9
C 1.08 SITE	0.248	0.231	0.027	5	10	2	5% AEP, 15 min burst, Storm 4
C 1.08	0.007	0.006	0.001	5	10	2	5% AEP, 15 min burst, Storm 4
C 1.09	0.01	0.009	0.002	5	10	2	5% AEP, 15 min burst, Storm 4
C 2.01	0.285	0.264	0.021	10	20	2	5% AEP, 10 min burst, Storm 7
C 2.02	0.084	0.078	0.008	8	14	2	5% AEP, 10 min burst, Storm 10
C 2.03	0.031	0.028	0.005	5	10	2	5% AEP, 15 min burst, Storm 4
C 2.05	0.005	0.004	0.001	5	10	2	5% AEP, 15 min burst, Storm 4
C 1.00	0.185	0.141	0.044	10	20	2	5% AEP, 10 min burst, Storm 4
C 1.01	0.039	0.036	0.006	5	10	2	5% AEP, 15 min burst, Storm 4
C 1.02	0.01	0.009	0.001	5	10	2	5% AEP, 15 min burst, Storm 4
C 1.03	0.01	0.009	0.002	5	10	2	5% AEP, 15 min burst, Storm 4
C 1.05	0.005	0.005	0.001	5	10	2	5% AEP, 15 min burst, Storm 4
C 1.06	0.051	0.046	0.008	5	10	2	5% AEP, 15 min burst, Storm 4
C 1.07	0.006	0.006	0.001	5	10	2	5% AEP, 15 min burst, Storm 4
C 1.10	0.952	0.862	0.145	5	10	2	5% AEP, 15 min burst, Storm 4

PIPE DETAILS / PIT & NODE DETAILS

Pipe	Flow (cu.m/s)	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Int. Dia (mm)	Rough (mm)	Nom.Capacity (cu.m/s)	V (m/sec)	D/S HGL (m)	Friction Loss (m)	U/S HGL (m)	Node	Headloss Coeff (Ku)	Shock Loss (m)	HGL (m)	Free-board	Overflow (cu.m/s)
													1.12			91.964		
1.10-1.11	1.638	142	97.72	91.5	4.38	750	0.013	2.33	5.7	91.964	6.215	98.179	1.1	2.07	1.453	99.632	-0.03	
													DUMMY			99.704		
1.09-1.10	0.336	9.8	98.6	98.12	4.9	450	0.013	0.631	2.1	99.632	0.136	99.768	1.09	**1**	0.228	99.996	-0.2	
1.08-1.09	0.327	14.662	99.4	98.63	5.25	450	0.013	0.653	2.2	99.996	0.193	100.189	1.08	1.1	0.237	100.427	0.12	0
1.07-1.08	0.3	15.477	100.23	99.43	5.17	450	0.013	0.648	2.1	100.427	0.171	100.598	1.07	1.68	0.305	100.903	0.37	0
1.06-1.07	0.288	13.207	100.81	100.26	4.16	450	0.013	0.582	2	100.903	0.135	101.038	1.06	1.8	0.302	101.34	0.51	0.005
1.05-1.06	0.239	6.533	101.689	100.84	13	375	0.013	0.632	2.6	101.34	0.509	101.849	1.05	0.37	0.089	101.938	1.66	
1.04-1.05	0.235	38.552	107.86	102.59	13.67	375	0.013	0.648	5.4	102.747	5.27	108.017	1.04	0.66	0.152	108.169	0.73	
1.03-1.04	0.242	10.805	109.26	107.89	12.68	375	0.013	0.624	2.5	108.169	1.253	109.422	1.03	0.94	0.23	109.652	0.65	
1.02-1.03	0.229	19.602	109.86	109.29	2.91	375	0.013	0.299	2.2	109.652	0.455	110.106	1.02	0.53	0.117	110.223	0.68	
1.01-1.02	0.221	19.868	110.46	109.89	2.87	375	0.013	0.297	2.2	110.223	0.478	110.701	1.01	1.95	0.399	111.1	0.42	0.001
													1			111.241		
2.05-2.06	0.408	6.2	98.124	98	2	600	0.013	0.868	1.4	99.632	0.027	99.659	2.05	0.71	0.075	99.734	0.21	
2.04-2.05	0.388	45.919	103.77	98.7	11.04	450	0.013	0.947	2.6	99.734	4.236	103.971	2.04	0.66	0.201	104.172	1.18	
2.03-2.04	0.389	2.239	103.87	103.8	3.13	450	0.013	0.504	2.7	104.172	0	104.172	2.03	0.98	0.299	104.471	0.93	
2.02-2.03	0.364	23.111	104.2	103.9	1.3	450	0.013	0.325	2.3	104.471	0.376	104.847	2.02	2.02	0.539	105.386	0.25	
													2.01			109.727		
													OSD			100.454		
3.01-1.10	0.074	5.07	97.97	97.87	1.97	600	0.013	0.862	0.3	99.632	0.001	99.633	3.01	1.5	0.005	99.638	0.01	

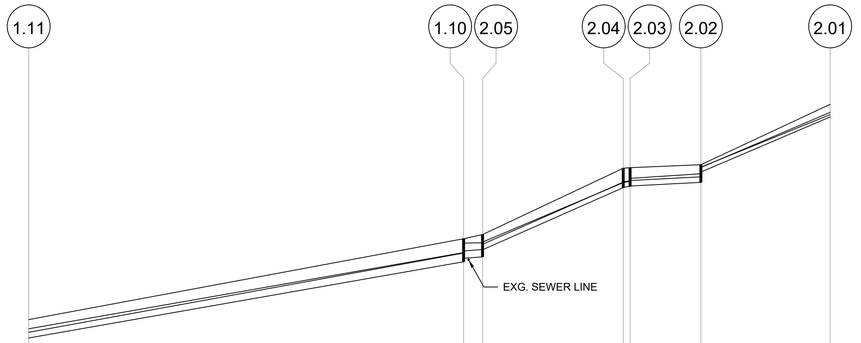
OVERFLOW ROUTE DETAILS

Name	Max Q U/S	Max Q D/S	Safe Q	Max D	Max DxV	Max Width	Max V	Due to Storm
OF1.08	0	0.021	0.865	0.037	0.06	0.92	1.51	5% AEP, 15 min burst, Storm 4
OF1.01	0.001	0.02	0.635	0.045	0.04	1.21	0.91	5% AEP, 15 min burst, Storm 4
OF1.06	0.005	0.017	0.958	0.036	0.05	0.9	1.31	5% AEP, 15 min burst, Storm 4
OF1.07	0	0.014	0.87	0.033	0.05	0.77	1.4	5% AEP, 15 min burst, Storm 4



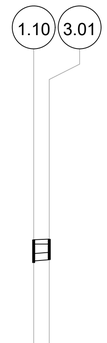
	1.10	1.09	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00
	336L/s 450mm		327L/s 450mm		300L/s 450mm	288L/s 450mm	239L/s 375mm	235L/s 375mm	242L/s 375mm	229L/s 375mm	221L/s 375mm	185L/s 375mm
DATUM EL. 85	4.90%		5.25%		5.17%	4.16%	13.00%	13.67%	12.68%	2.91%	2.87%	1.00%
HGL	99.246	99.366	99.566	99.788	99.968	100.608	100.681	101.184	101.233	101.978	102.747	108.190	108.190	109.598	109.635	110.193	110.224	110.789	110.945	111.084	
SURFACE LEVEL	99.6		99.8		100.55	101.27		101.85		103.6		108.9		110.3		110.9		111.52			111.6
INVERT LEVEL	98.120	98.600	98.630	99.400	99.430	100.230	100.260	100.810	100.840	101.689	102.590	107.860	107.890	109.260	109.290	109.860	109.890	110.460	110.490	110.617	
CHAINAGE	0	9.80		24.46		39.94	53.15	59.68				98.23		109.04		128.64		148.51			161.19

DRAINAGE LONGITUNDINAL SECTION FOR LINE 1
SCALES: HORIZONTAL 1:1000 VERTICAL 1:400



	1.11	1.10	2.05	2.04	2.03	2.02	2.01
	1638L/s 750mm	408L/s 600mm	388L/s 450mm	389L/s 450mm	364L/s 450mm	285L/s 375mm	
DATUM EL. 85	4.38%	2.00%	11.04%	3.13%	1.30%	10.66%	
HGL	91.964	98.432	99.246	99.268	99.328	104.178	104.186	104.278	104.527	104.900	105.436	109.727	
SURFACE LEVEL	93	99.6	99.94	105.35	105.4	105.64	110.57	
INVERT LEVEL	91.500	97.720	98.000	98.124	98.700	103.770	103.800	103.870	103.900	104.200	105.040	109.540	
CHAINAGE	0	142.00	148.20	194.12	196.36	219.47	261.67

DRAINAGE LONGITUNDINAL SECTION FOR LINE 2
SCALES: HORIZONTAL 1:1000 VERTICAL 1:400



	1.10	3.01
		74L/s 600mm
DATUM EL. 85		1.97%
HGL	99.246	99.246
SURFACE LEVEL	99.6	99.65
INVERT LEVEL	97.870	97.970
CHAINAGE	0	5.07

DRAINAGE LONGITUNDINAL SECTION FOR LINE 3
SCALES: HORIZONTAL 1:1000 VERTICAL 1:400

B	ISSUED FOR SSDA	SH	12.08.25	06	
A	ISSUED FOR SSDA	SH	06.08.25	06	
Issue	Last revision title	By	Date	Status	

Issuer internal sequence and revision history
1-preliminary 2-development application 3-construction certificate
4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

Quality Control

DRAWN	DATE
PE	12.08.25
CHECKED	DATE
SH	12.08.25
DESIGNED	DATE
PE	12.08.25
VERIFIED	DATE
PE	12.08.25
APPROVED	DATE
SH	12.08.25

ENGINEERS AUSTRALIA
Chartered Professional Engineer
MEMBER

Scales

0m 4 8 12 16 20
SCALE 1:400 ON ORIGINAL SIZE

0m 10 20 30 40 50
SCALE 1:1000 ON ORIGINAL SIZE

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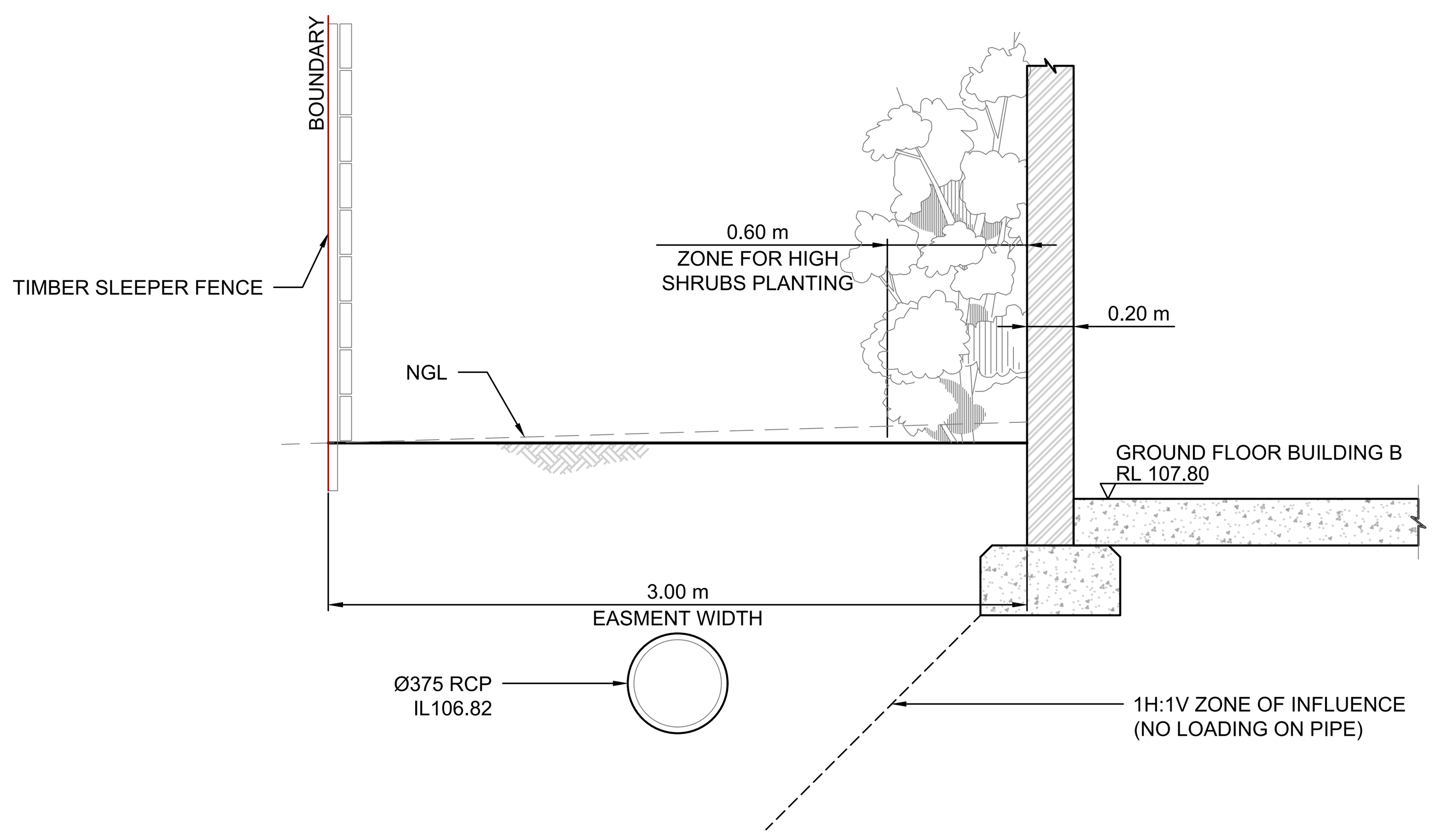
PROJECT
15a & 15b MOSELEY STREET
& 25-31 DONALD STREET,
CARLINGFORD.
STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	12

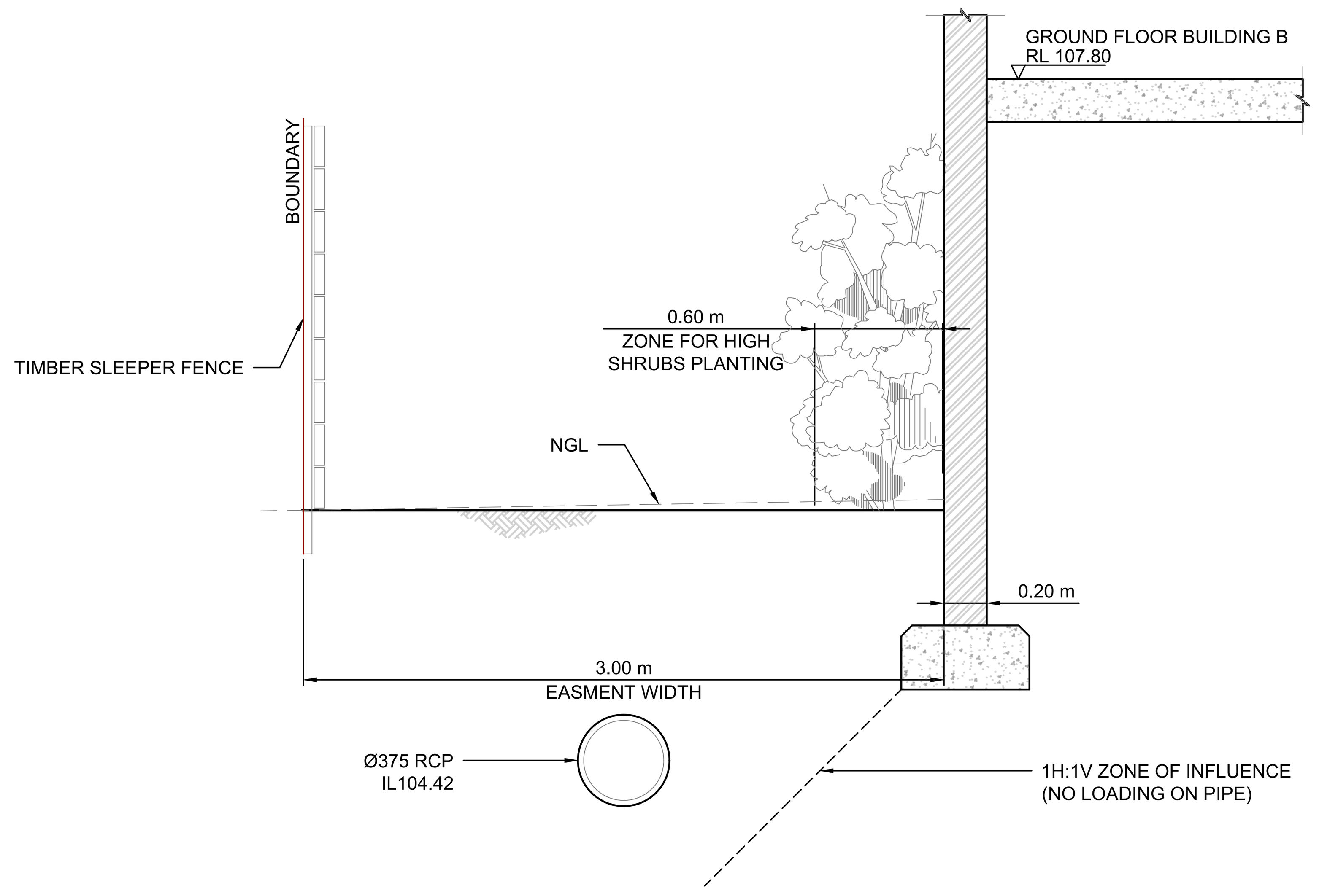
Status: ISSUED FOR APPROVAL

Drawing Title
STORMWATER DRAINAGE DESIGN
UPSTREAM CATCHMENT
CALCULATION

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW503	B



EASEMENT SECTION 1 / SW303
SCALE: 1:25



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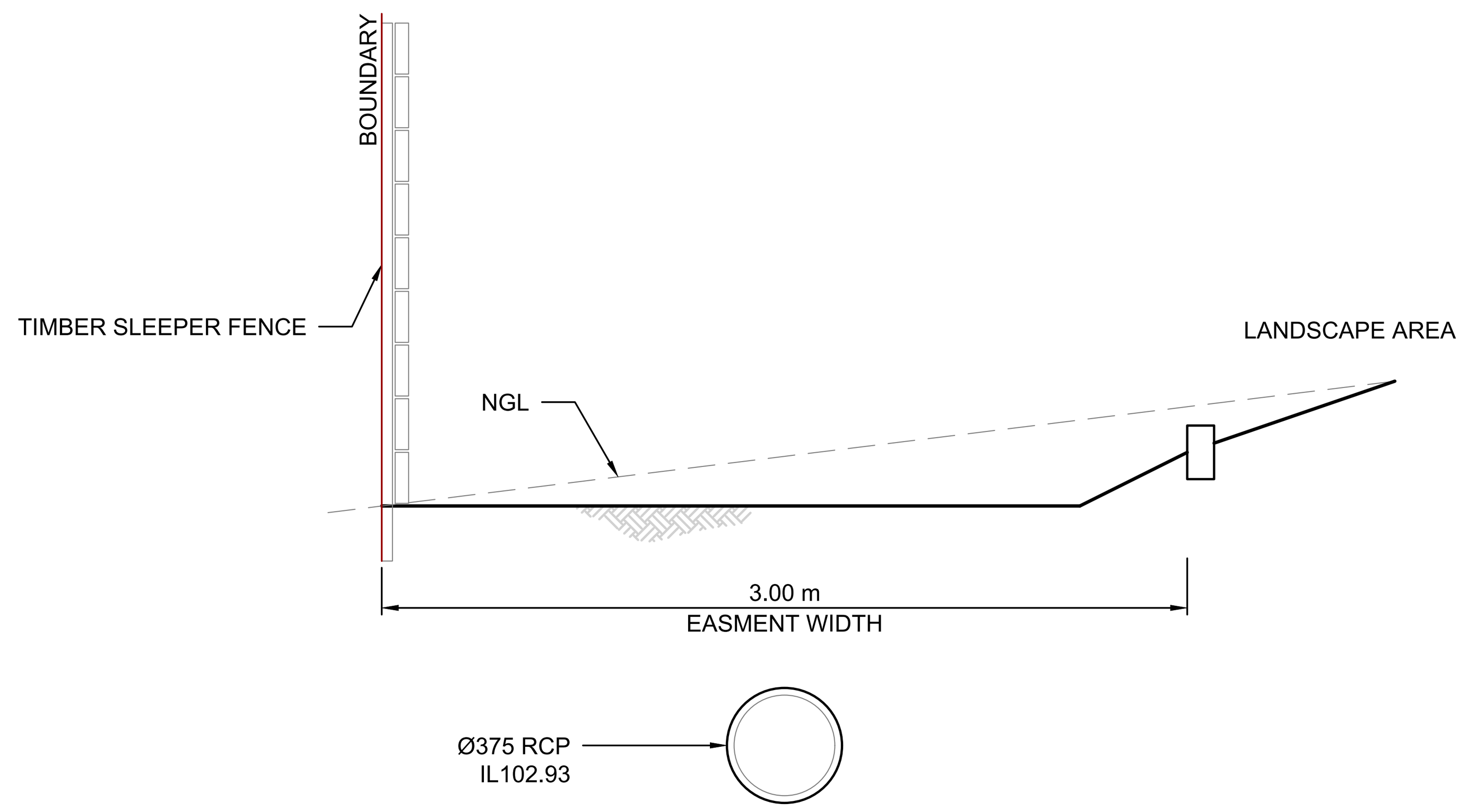
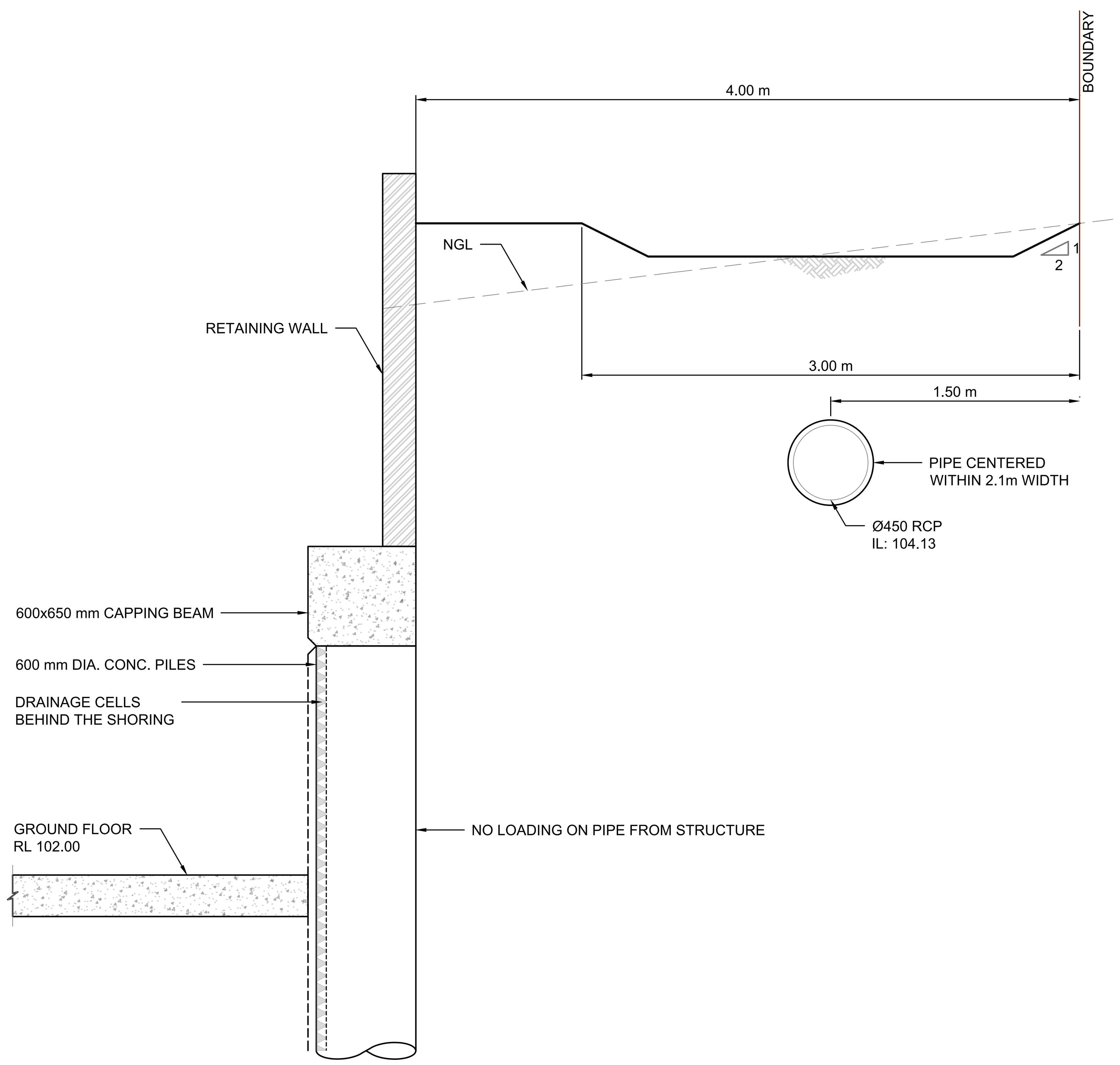
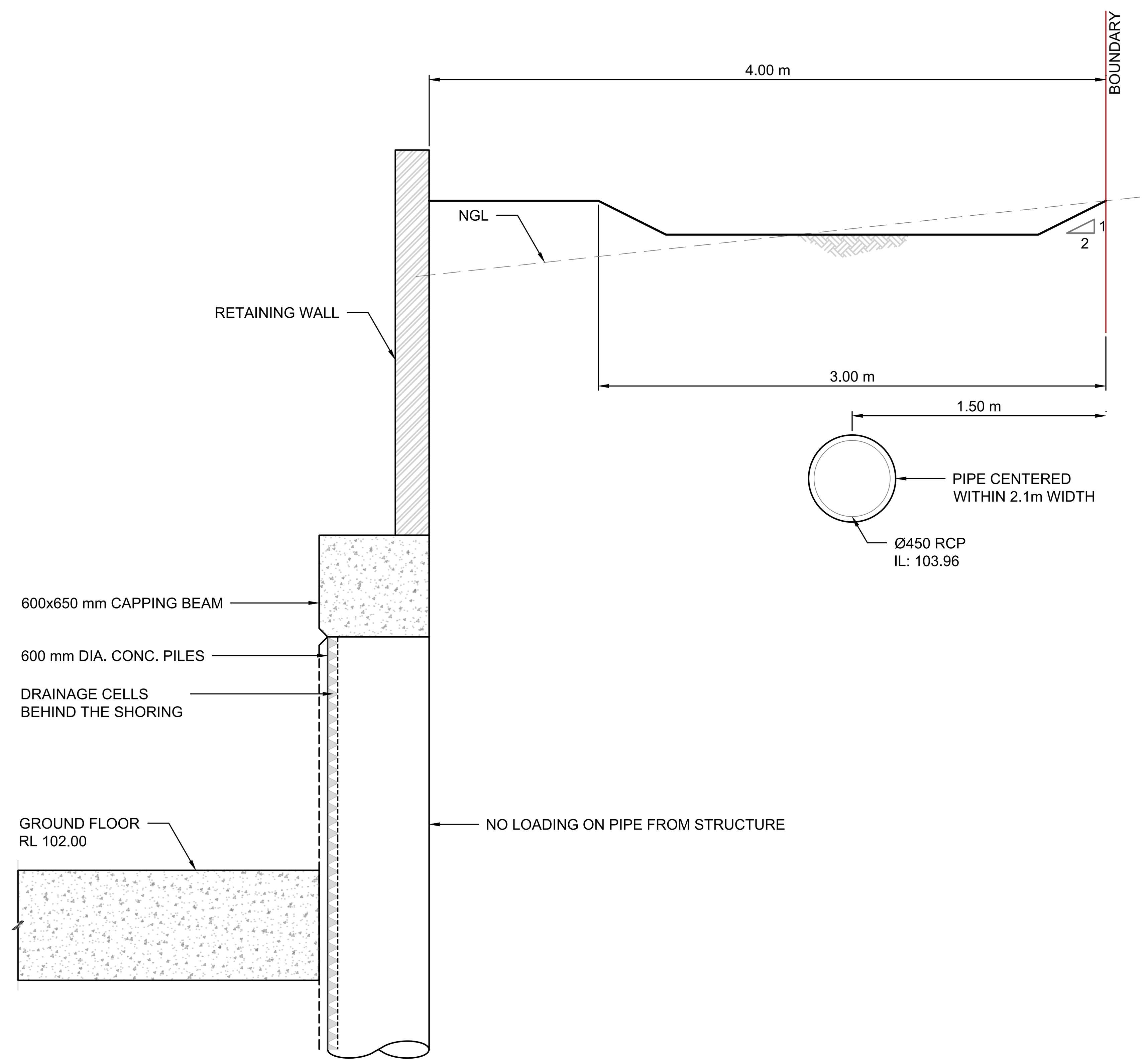
SCALE: 1:25



EASEMENT SECTION 3 / SW303
SCALE: 1:25



EASEMENT SECTION 4 / SW303
SCALE: 1:25



EASEMENT SECTION 5 / SW303
SCALE: 1:25

Issue	Last revision title	By	Date	Status
B	ISSUED FOR SSDA	SH	12.08.25	06
A	ISSUED FOR SSDA	SH	06.08.25	06

Issuer internal sequence and revision history
1-preliminary 2-development application 3-construction certificate
4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

Quality Control

		DATE
DRAWN	PE	12.08.25
CHECKED	SH	12.08.25
DESIGNED	PE	12.08.25
VERIFIED	PE	12.08.25
APPROVED	SH	12.08.25

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Scales
0m 0.25 0.5 0.75 1.0 1.25
SCALE 1:25 ON ORIGINAL SIZE

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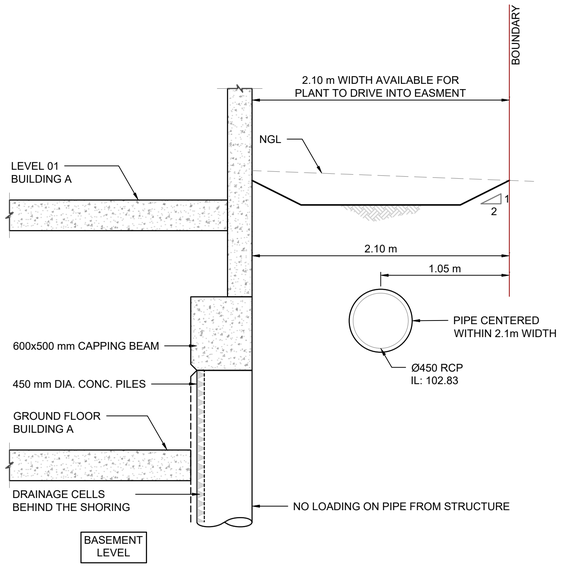
CARLINGFORD.
STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	13

Status: ISSUED FOR APPROVAL

Drawing Title
STORMWATER DRAINAGE DESIGN
TYPICAL SECTIONS
SHEET 01 OF 02

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW561	B



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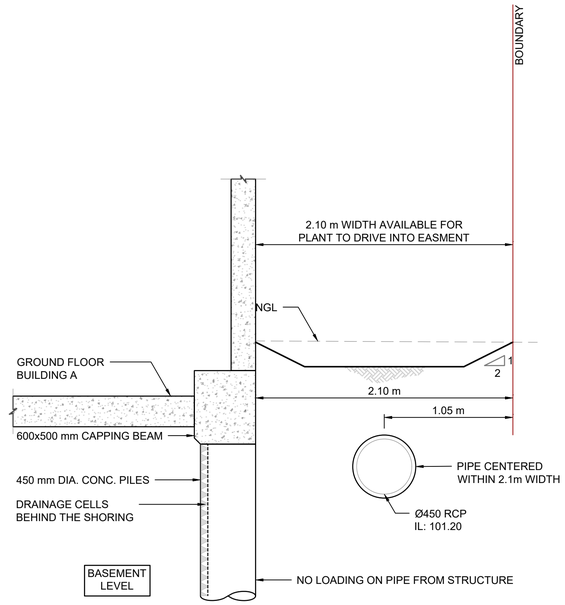
SCALE: 1:25 SW303



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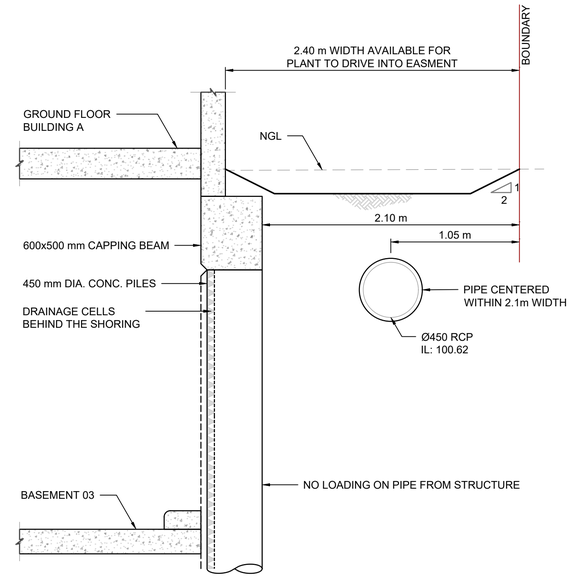
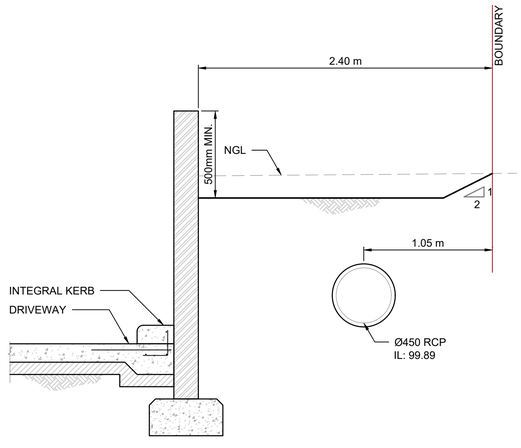
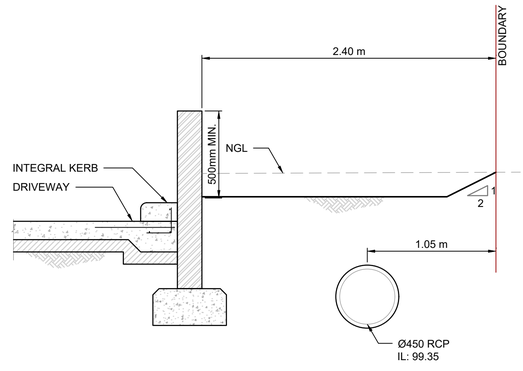
SCALE: 1:25 SW303



EASEMENT SECTION 8
SCALE: 1:25 SW303



EASEMENT SECTION 9
SCALE: 1:25 SW303



EASEMENT SECTION 10
SCALE: 1:25 SW303

B	ISSUED FOR SSDA	SH	12.08.25	06	
A	ISSUED FOR SSDA	SH	06.08.25	06	
Issue	Last revision title	By	Date	Status	

Issuer internal sequence and revision history
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Reference Coordination Drawing

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Quality Control

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PE	12.08.25
VERIFIED	DATE
PE	12.08.25
APPROVED	DATE
SH	12.08.25

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AUSTRALIA
Chartered Professional Engineer
MEMBER

Scales
0m 0.25 0.5 0.75 1.0 1.25
SCALE 1:25 ON ORIGINAL SIZE

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STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
	A.H.D.	14

Status ISSUED FOR APPROVAL

Drawing Title
STORMWATER DRAINAGE DESIGN
TYPICAL SECTIONS
SHEET 02 OF 02

Project No.	Set No. - Drg No.	Revision No.
20240241	S05-SW562	B