

RESIDENTIAL FLAT BUILDING
38-42 GERATHY STREET, GOULBURN NSW 2540
CIVIL SERVICES

SITWORKS NOTES

1. ORIGIN OF LEVELS :- AUSTRALIAN HEIGHT DATUM (A.H.D.)
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
3. ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE PRINCIPAL'S REPRESENTATIVE.
4. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPAL'S REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
5. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
6. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
7. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
8. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED NON-NATURAL GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS.1289.5.1.1.
9. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
10. ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
11. PROVIDE 10mm WIDE ABEFLEX JOINTS BETWEEN CONCRETE PAVEMENTS AND ALL BUILDINGS , WALLS, FOOTINGS, COLUMNS, KERBS, DISH DRAINS, GRATED DRAINS, BOLLARD FOOTINGS ETC.
12. CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
13. ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100 TOPSOIL AND APPROVED COUCH LAID AS TURF.
14. MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS.
16. ON COMPLETION OF WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL INCLUDING, BUT NOT LIMITED TO, KERBS, FOOTPATHS, CONCRETE AREAS, GRASS AND LANDSCAPED AREAS.

EXISTING SERVICES AND FEATURES

1. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
2. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
3. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN WRITTEN APPROVAL OF HIS PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
4. EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.
5. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
6. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL OF SUPERINTENDENT FOR TIME OF INTERRUPTION.

GENERAL NOTES

1. 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.
2. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION
3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
4. ALL DIMENSIONS ON DETAILS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL PLANS AND LEVELS ARE EXPRESSED IN METRES.
5. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURAL STABILITY OF THE WORKS AND ENSURE NO PARTS BE OVER STRESSED UNDER CONSTRUCTION ACTIVITIES.
6. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT AUSTRALIAN STANDARDS INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
7. THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER BUT IS NOT AN AUTHORISATION FOR A VARIATION, ANY VARIATIONS INVOLVED MUST BE TAKEN UP WITH THE ARCHITECT OR PROJECT MANAGER BEFORE THE WORK COMMENCES.
8. ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
9. THE BUILDER SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS.
10. BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES
11. THE WORD 'ENGINEER' USED IN THESE NOTES REFER TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF **ENTEC CONSULTANTS PTY.LTD.**

STORMWATER NOTES

1. ALL 300 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS "2" APPROVED SPIGOT AND SOCKET FRC OR RCP PIPES WITH RUBBER RING JOINTS. (U.N.O.) ALL DOWNPIPE DRAINAGE LINES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS. (U.N.O.)
2. EQUIVALENT STRENGTH REINFORCED CONCRETE PIPES MAY BE USED.
3. ALL PIPE JUNCTIONS UP TO AND INCLUDING 450 DIA. AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
4. MINIMUM GRADE TO STORMWATER LINES TO BE IN ACCORDANCE WITH AS/NZS 3500.3-2018 TABLE 6.3.4. (U.N.O.)
5. CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
6. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
7. PRECAST PITS SHALL NOT BE USED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE SUPERINTENDENT.
8. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50MM CONCRETE BED (OR 75MM THICK BED OF 12MM BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75MM THICK SAND BED. IN ALL CASES BACKFILL THE TRENCH WITH SAND TO 200MM ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150MM LAYERS TO 98% STANDARD MAX. DRY DENSITY.
9. BEDDING SHALL BE TYPE HS1, IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS.
10. WHERE uPVC STORMWATER LINES PASS UNDER FLOOR SLABS, SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
11. 100 DIA SLOTTED uPVC SUBSOIL DRAINAGE LINES SHALL BE INSTALLED BEHIND ALL RETAINING WALLS, KERBS AND WITHIN PLANTERS.
12. WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE SHALL BE USED.
13. PROVIDE 3.0M LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- E1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO DEVELOPMENT AT THE SUBJECT SITE.
- E2. THE SITE SUPERINTENDENT WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION.
- E3. ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

CONSTRUCTION SEQUENCE

- E4. THE SOIL EROSION POTENTIAL ON THIS SITE SHALL BE MINIMISED. HENCE WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE :
- a. INSTALL SEDIMENT FENCES, TEMPORARY CONSTRUCTION EXIT AND SANDBAG KEBB INLET SEDIMENT TRAP.
 - b. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.
- EROSION CONTROL**
- E5. DURING WINDY CONDITIONS, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- E6. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

FENCING

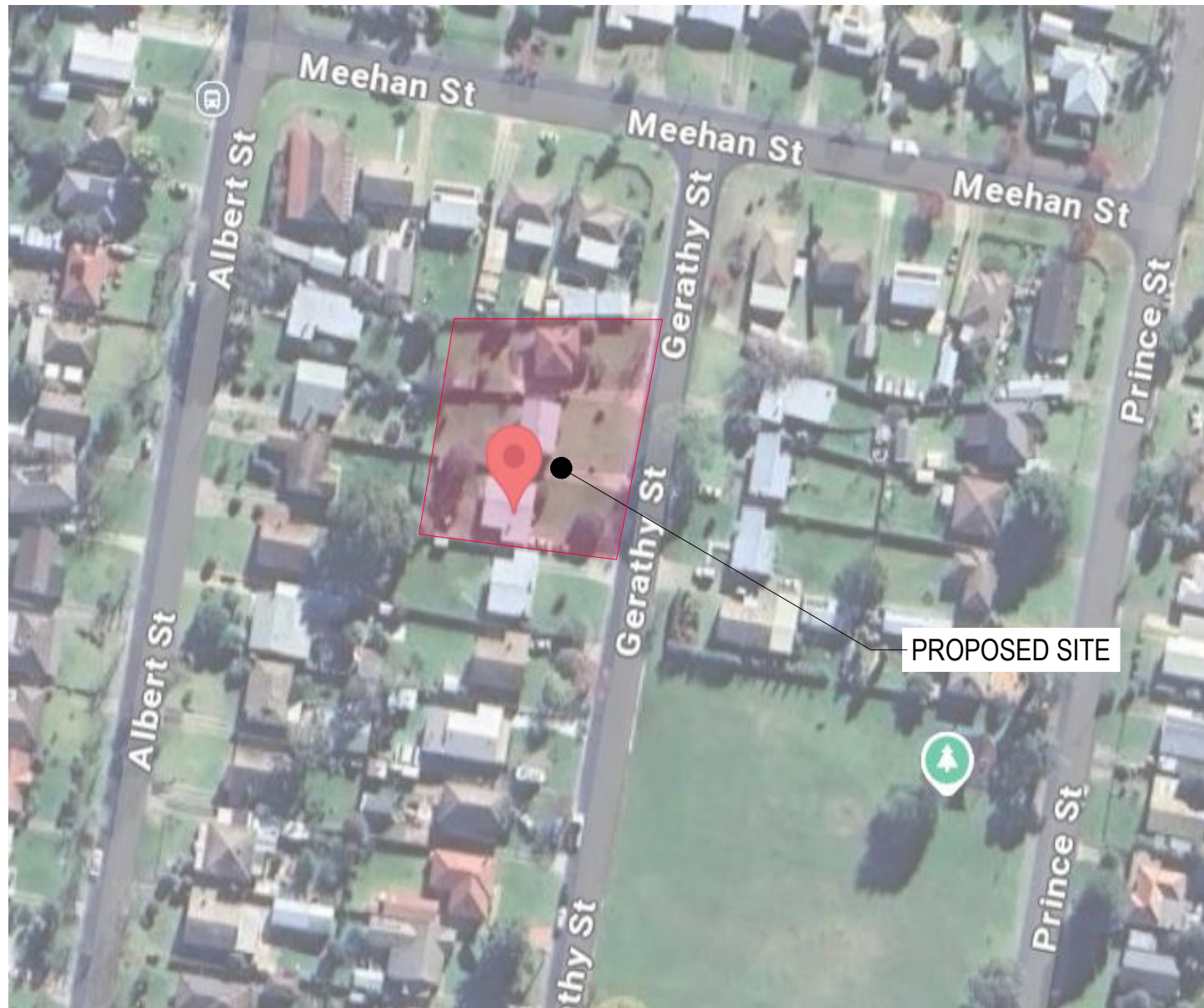
- E7. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- E8. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- E9. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- E10. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- E11. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- E12. RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.



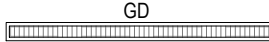




SITE INSPECTION & MAINTENANCE

- E13. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIR AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED.



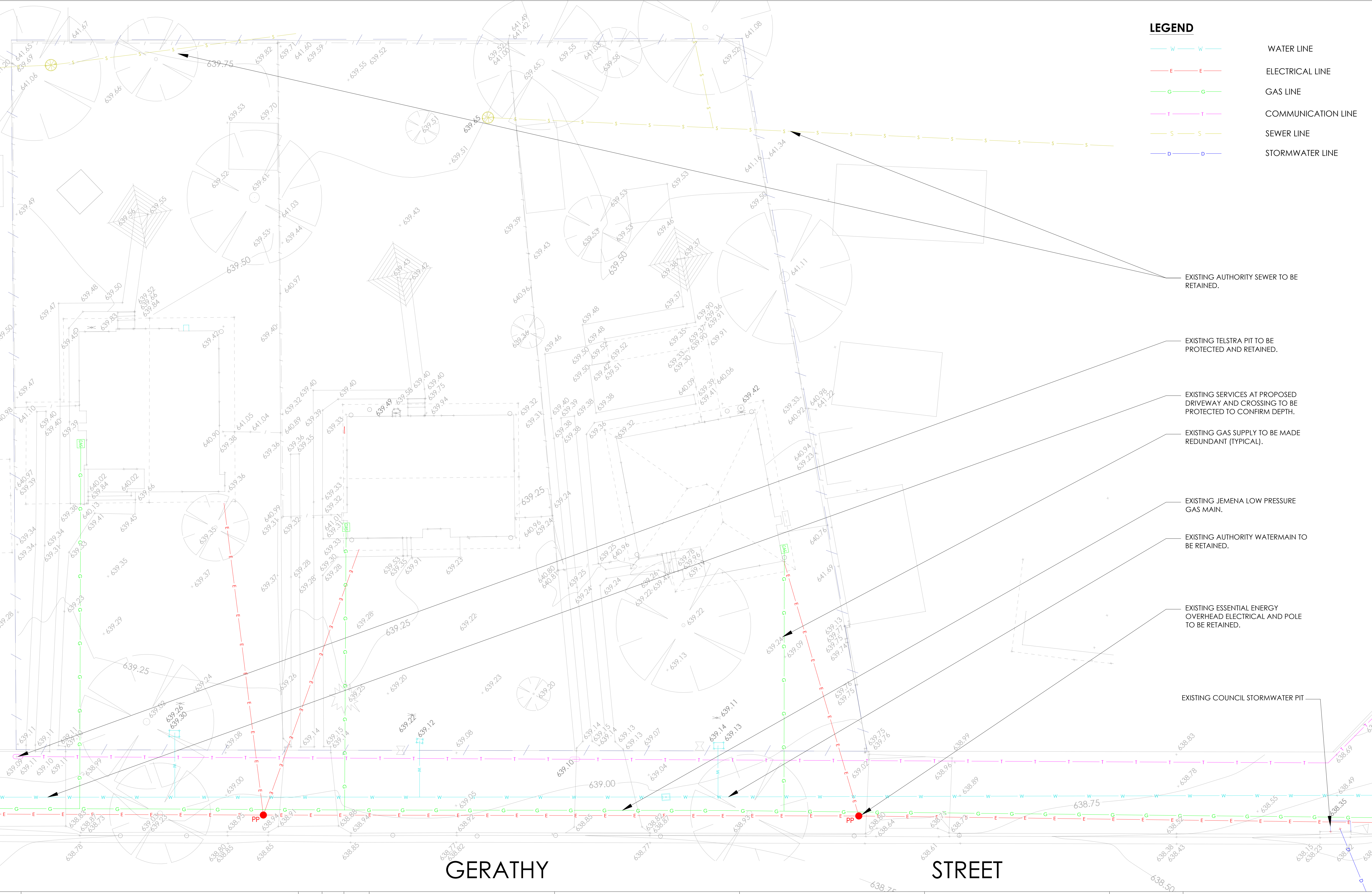
LOCALITY PLAN

CIVIL LEGEND

	FALL ARROW
• 639.23	PROPOSED SURFACE LEVEL
• EX 56.20	EXISTING SURFACE LEVEL
	STORMWATER DRAINAGE STRUCTURE WITH NUMBER (REFER TO PLANS AND STANDARD DRAINAGE STRUCTURES SCHEDULE)
	PROPOSED GRATED DRAIN
 <div data-bbox="1656 1247 1724 1310"><p>USIL 10.00 Ø150 uPVC 10m @ 1% DSIL 9.90</p></div>	STORMWATER DRAINAGE LINE WITH: <div data-bbox="1813 1247 2003 1306"><p>..... INVERT LEVEL UPSTREAM PIPE SIZE AND MATERIAL CLASS PIPE LENGTH AND GRADE INVERT LEVEL DOWNSTREAM</p></div>
	EXISTING STORMWATER DRAINAGE LINE
	HIGH POINT
	RAINWATER DRAINAGE LINE

DWG No.	DESCRIPTION
C100	COVER SHEET, LEGENDS AND NOTES
C101	EXISTING SERVICES PLAN
C200	SEDIMENT AND EROSION CONTROL PLAN
C201	SEDIMENT AND EROSION CONTROL DETAILS
C300	CIVIL WORKS PLAN
C400	STORMWATER MANAGEMENT PLAN
C500	DETAILS - SHEET 1
C501	DETAILS - SHEET 2
C502	ONSITE DETENTION ANALYSIS
C503	MUSIC MODEL RESULTS
C600	CATCHMENT PLAN
C700	CUT & FILL PLAN
C800	PAVEMENT PLAN
C900	PUBLIC DOMAIN PLAN

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LEGEND

- W W WATER LINE
- E E ELECTRICAL LINE
- G G GAS LINE
- T T COMMUNICATION LINE
- S S SEWER LINE
- D D STORMWATER LINE

D	RE-ISSUE FOR PART 5 SUBMISSION	15.05.25	YS	NP	
C	ISSUE FOR PART 5 SUBMISSION	28.02.25	YS	NP	
B	ISSUE FOR REVIEW	07.01.25	YS	NP	
A	ISSUE FOR REVIEW	07.01.25	YS	NP	
ISSUE	AMENDMENT	DATE	DRAWN	APP	

CLIENT



ARCHITECT



CIVIL CONSULTANT

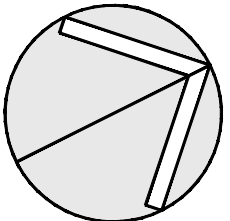


PROJECT

RESIDENTIAL FLAT BUILDING

38-42 GERATHY STREET
GOULBURN, NSW 2580

NORTH POINT



DRAWING TITLE					
EXISTING SERVICES PLAN					
DRAWN YS	DATE DEC 24	SCALE 1:100	A1	QA CHECK	DATE
DESIGNED NP	PROJECT NO. 240208	DRAWING NO. C101		ISSUE D	

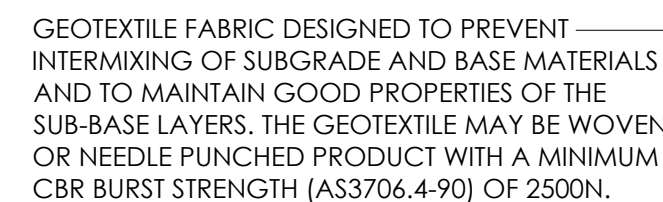


LEGEND

- SEDIMENT FENCE
- GEOTEXTILE INLET FILTER
- STABILISED SITE ACCESS
- MESH AND GRAVEL INLET FILTER
- STOCKPILE

NOTE

EXACT LOCATION OF STABILISED SITE ACCESS AND TEMPORARY STOCKPILE TO BE DETERMINED ON-SITE DURING CONSTRUCTION BY CONTRACTOR.



1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING 30mm SINGLE SIZE AGGREGATE.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP WHERE THE SEDIMENT IS COLLECTED AND REMOVED.



1. LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.
3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METERS IN HEIGHT.
4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-2) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-7) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

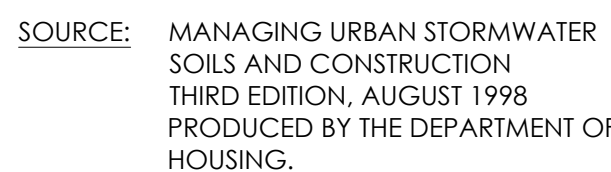


N.T.S.



SANDBAG SEDIMENT TRAP DETAILS

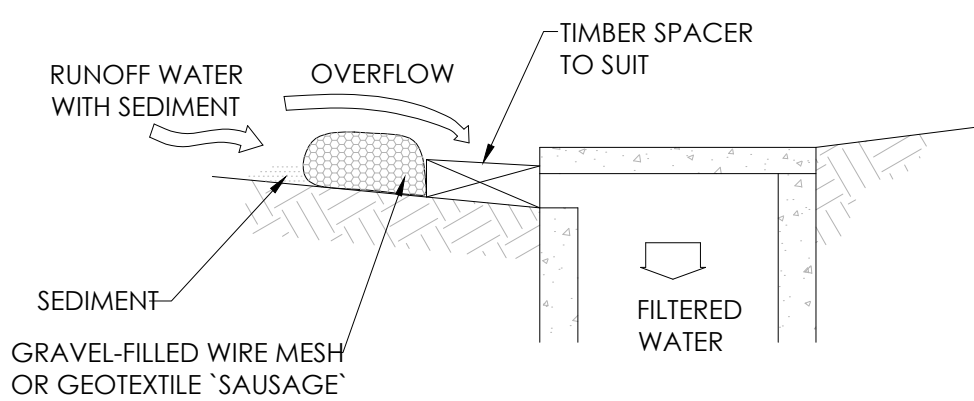
NTS



CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER FROM GEOTEXTILE OR STRAW BALES.
2. SUPPORT GEOTEXTILE WITH MESH TIED TO POSTS AT 1 METRE CENTRES.
3. DO NOT COVER INLET WITH GEOTEXTILE.
4. CONSTRUCTION DETAILS ARE SIMILAR TO TYPICAL SEDIMENT FENCING DETAIL.

GEOTEXTILE INLET FILTER

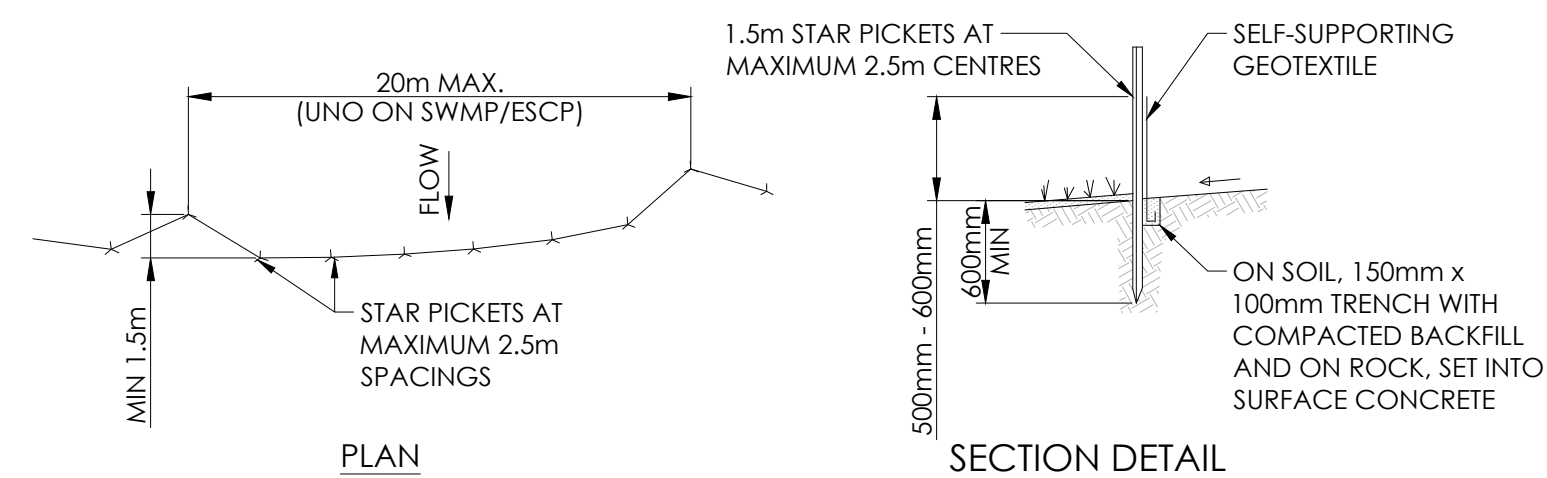


NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP.

CONSTRUCTION NOTES:

1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT.
2. FILL THE SLEEVE WITH 25MM TO 50MM GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150MM HIGH X 400MM WIDE.
4. PLACE THE FILTER AT THE OPENING OF THE KERB INLET LEAVING A 100MM GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY.
5. MAINTAIN THE OPENING WITH SPACER BLOCKS.
6. FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER.
7. FIT TO ALL KERB INLETS AT SAG POINTS.

MESH AND GRAVEL INLET FILTER



CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND, 2.5 METRES APART (MAX). ENSURE STAR PICKETS ARE FITTED WITH SAFETY CAPS.
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

SEDIMENT CONTROL FENCE

N.T.S.

CLIENT



The NSW Government logo features a red stylized flower above the text "NSW GOVERNMENT" in blue. The Homes NSW logo is a red house shape with the text "Homes NSW" in white.

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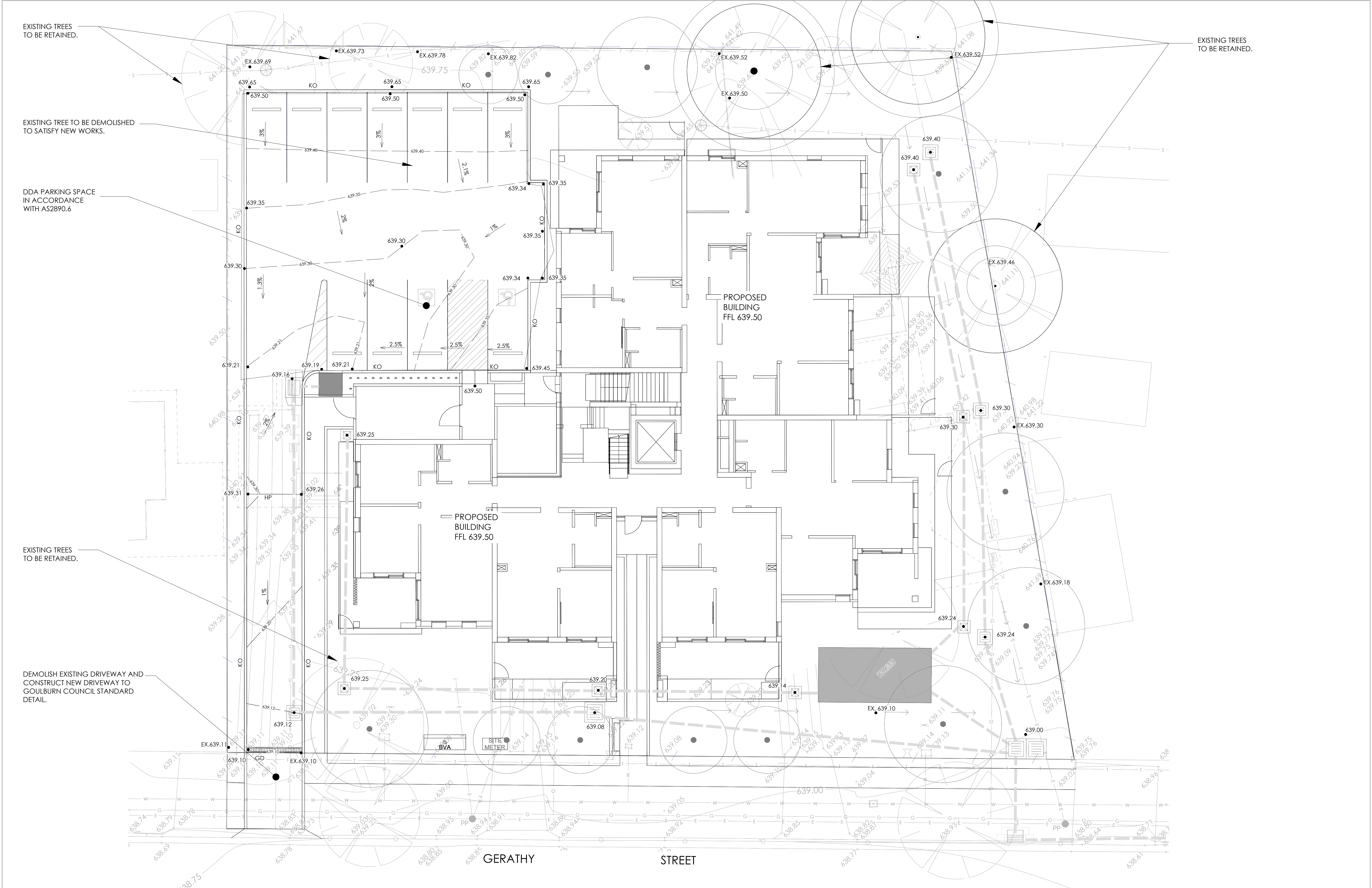
PROJECT
RESIDENTIAL FLAT BUILDING


38-42 GERATHY STREET
GOULBURN, NSW 2580

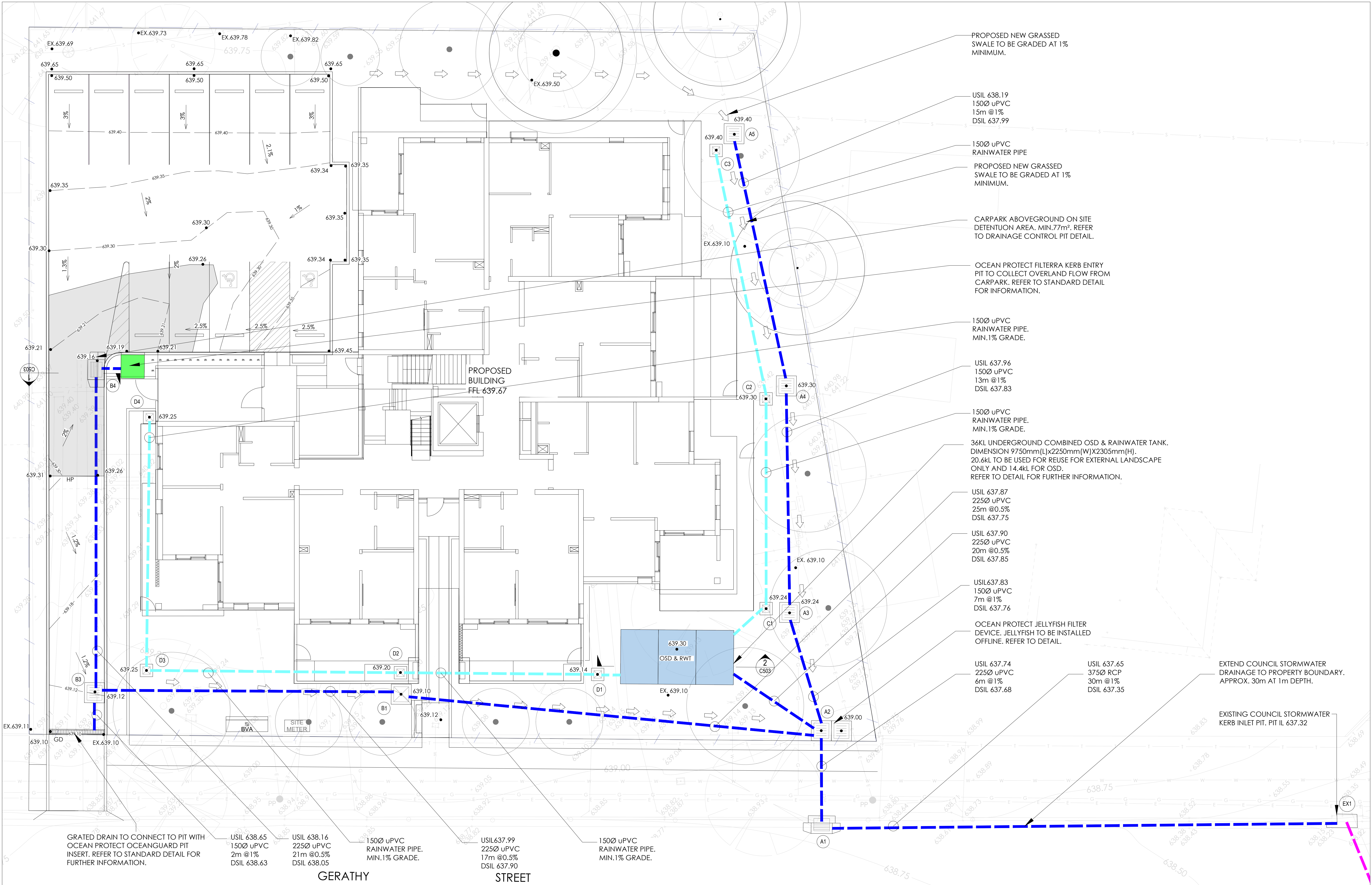
NORTH POINT



DRAWING TITLE					
SEDIMENT AND EROSION CONTROL DETAILS					
DRAWN YS	DATE DEC 24	SCALE N.T.S.	A1	QA CHECK	DATE
DESIGNED NP	PROJECT NO. 240208		DRAWING NO. C201		ISSUE D



<table><tr><td>E</td><td>RE-ISSUE FOR PART 5 SUBMISSION</td><td>15.05.25</td><td>YS</td><td>NP</td></tr><tr><td>D</td><td>ISSUE FOR PART 5 SUBMISSION</td><td>17.03.25</td><td>YS</td><td>NP</td></tr><tr><td>C</td><td>ISSUE FOR PART 5 SUBMISSION</td><td>28.02.25</td><td>YS</td><td>NP</td></tr><tr><td>B</td><td>ISSUE FOR REVIEW</td><td>07.01.25</td><td>YS</td><td>NP</td></tr><tr><td>A</td><td>ISSUE FOR REVIEW</td><td>20.12.24</td><td>YS</td><td>NP</td></tr><tr><td>ISSUE</td><td>AMENDMENT</td><td>DATE</td><td>DRAWN</td><td>APP</td></tr></table>				E	RE-ISSUE FOR PART 5 SUBMISSION	15.05.25	YS	NP	D	ISSUE FOR PART 5 SUBMISSION	17.03.25	YS	NP	C	ISSUE FOR PART 5 SUBMISSION	28.02.25	YS	NP	B	ISSUE FOR REVIEW	07.01.25	YS	NP	A	ISSUE FOR REVIEW	20.12.24	YS	NP	ISSUE	AMENDMENT	DATE	DRAWN	APP	<div>CLIENT</div> <div></div>		<div>ARCHITECT</div> <div></div>		<div>CIVIL CONSULTANT</div> <div></div>		<div>PROJECT</div> <div>RESIDENTIAL FLAT BUILDING</div> <div>38-42 GERATHY STREET GOULBURN, NSW 2580</div>		<div>NORTH POINT</div> <div></div>		<div>DRAWING TITLE</div> <div>CIVIL WORKS PLAN</div> <table><tr><td>DRAWN YS</td><td>DATE DEC 24</td><td>SCALE 1:100</td><td>A1</td><td>QA CHECK</td><td>DATE</td></tr><tr><td>DESIGNED NP</td><td colspan="2">PROJECT NO. 240208</td><td></td><td>DRAWING NO. C300</td><td>ISSUE E</td></tr></table>				DRAWN YS	DATE DEC 24	SCALE 1:100	A1	QA CHECK	DATE	DESIGNED NP	PROJECT NO. 240208			DRAWING NO. C300	ISSUE E
E	RE-ISSUE FOR PART 5 SUBMISSION	15.05.25	YS	NP																																																							
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DESIGNED NP	PROJECT NO. 240208			DRAWING NO. C300	ISSUE E																																																						




E	RE-ISSUE FOR PART 5 SUBMISSION	15.05.25	YS	NP
D	ISSUE FOR PART 5 SUBMISSION	17.03.25	YS	NP
C	ISSUE FOR PART 5 SUBMISSION	28.02.25	YS	NP
B	ISSUE FOR REVIEW	07.01.25	YS	NP
A	ISSUE FOR REVIEW	20.12.24	YS	NP
ISSUE	AMENDMENT	DATE	DRAWN	APP


CLIENT



ARCHITECT



CIVIL CONSULTANT

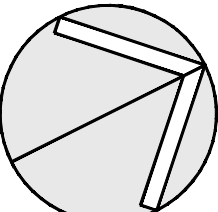


PROJECT

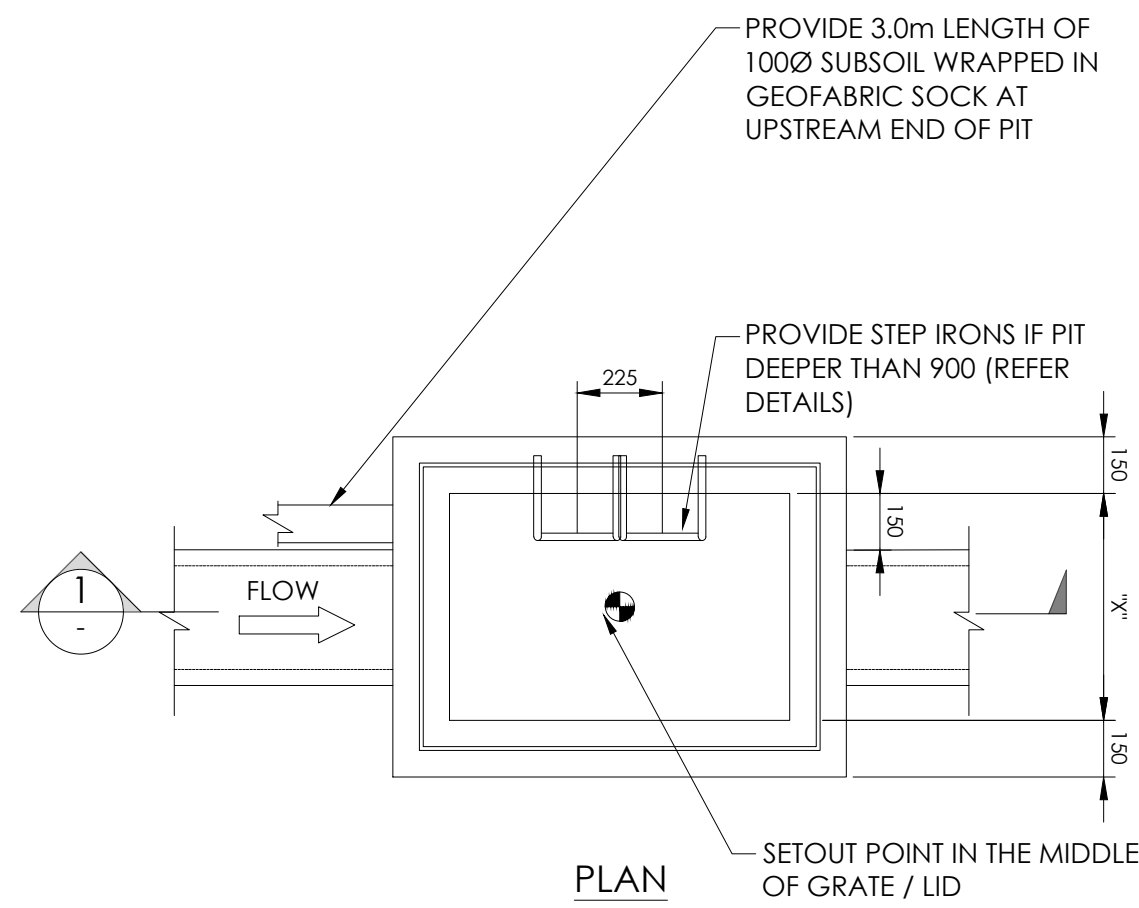
RESIDENTIAL FLAT BUILDING

38-42 GERATHY STREET
GOULBURN, NSW 2580

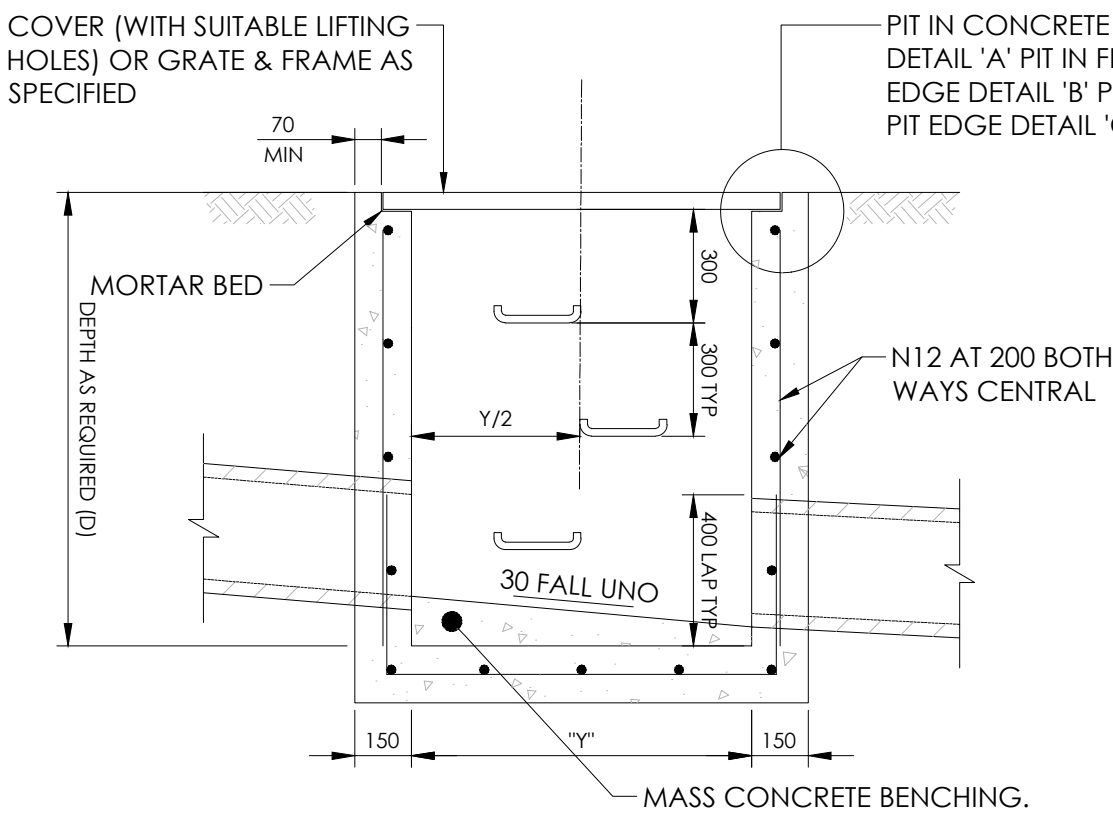
NORTH POINT



DRAWING TITLE					
STORMWATER MANAGEMENT PLAN					
DRAWN YS	DATE DEC 24	SCALE 1:100	A1	QA CHECK	DATE
DESIGNED NP	PROJECT NO. 240208	DRAWING NO. C400		ISSUE E	



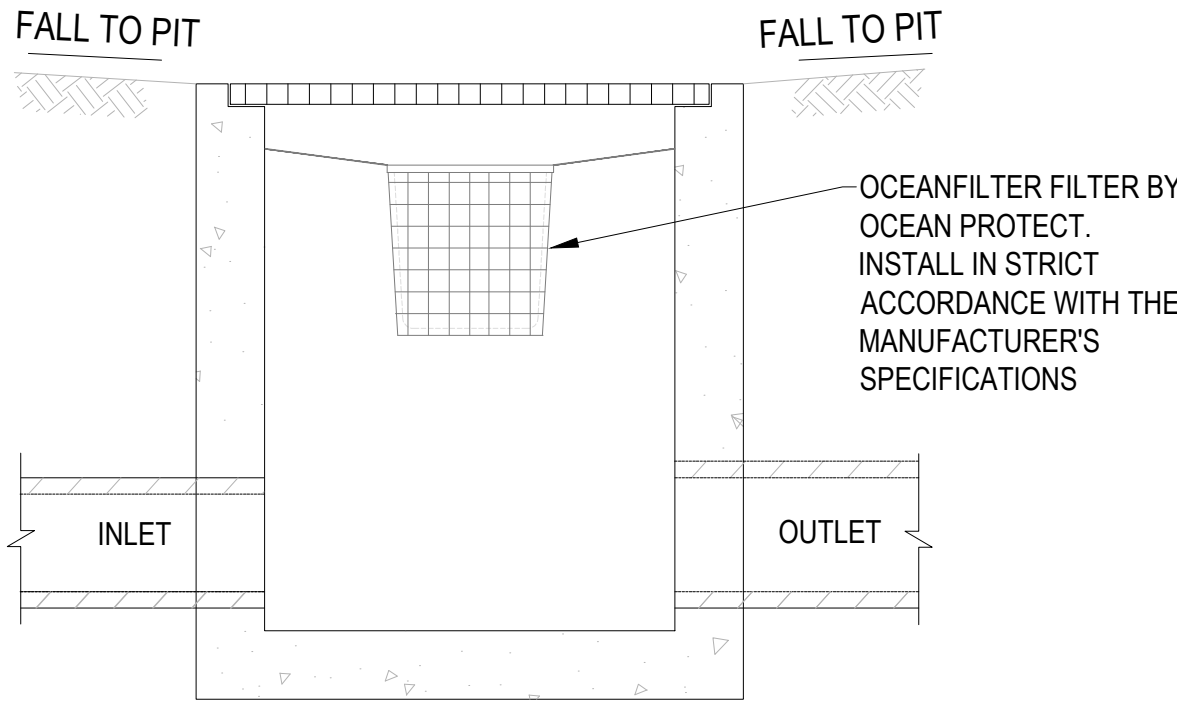
SURFACE INLET/JUNCTION PIT
SCALE 1:20



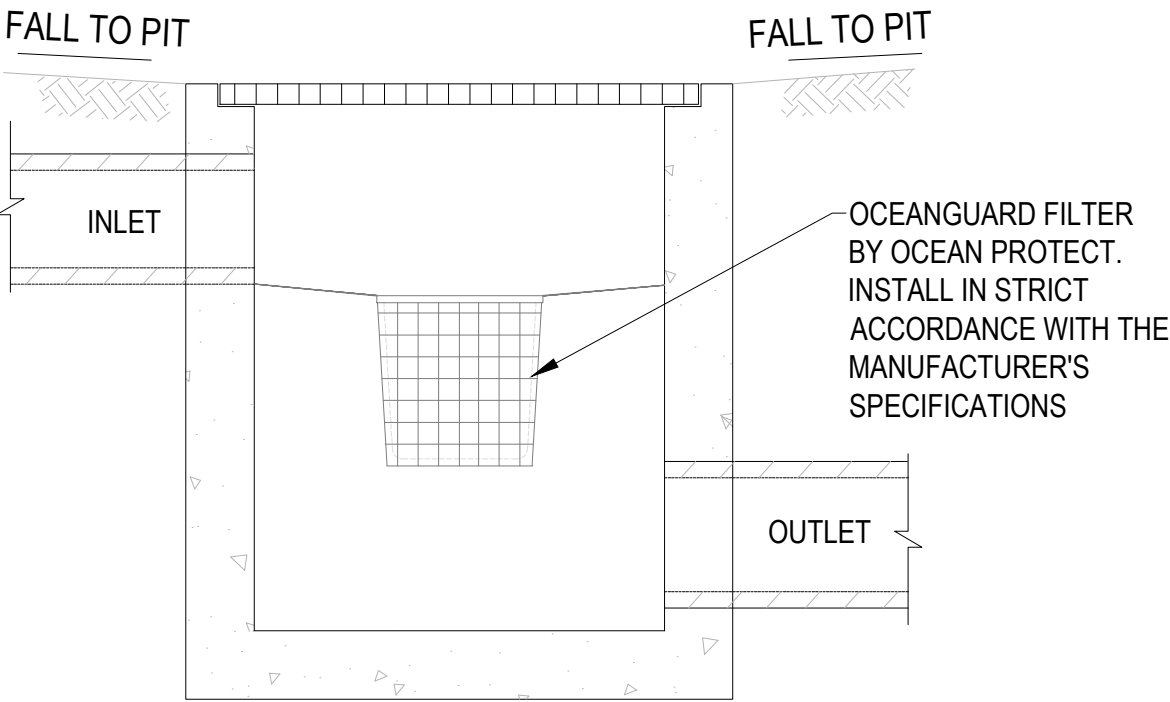
SECTION
SCALE 1:20

MINIMUM INTERNAL PIT DIMENSIONS			
"D"	"X"	"Y"	
D ≤ 600	450	450*	
D ≤ 900	600	600*	
D ≤ 1200	600	900	
D > 1200	900	900	

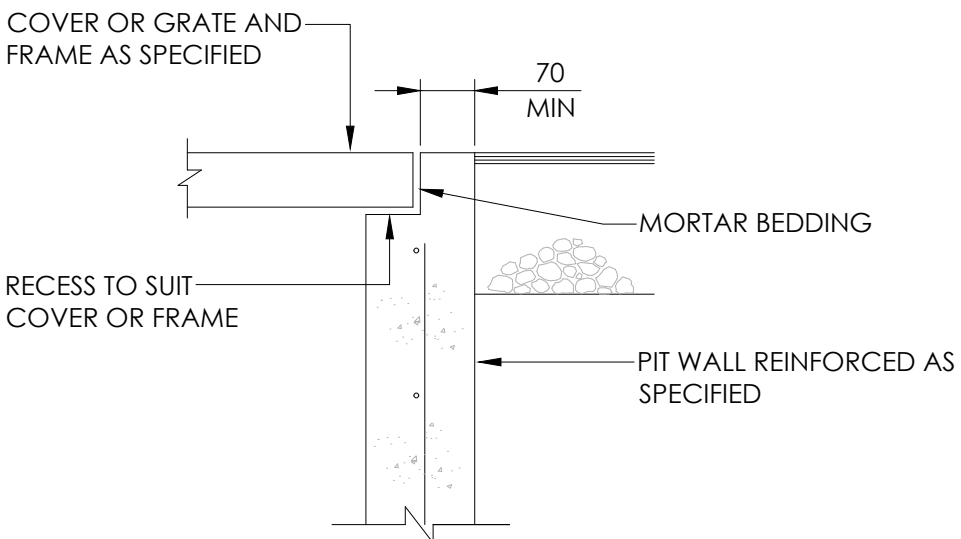
NOTE
PITS DENOTED * SHALL BE USED ONLY WHERE SPECIFIED IN DRAINAGE SCHEDULE OR ON PLAN.



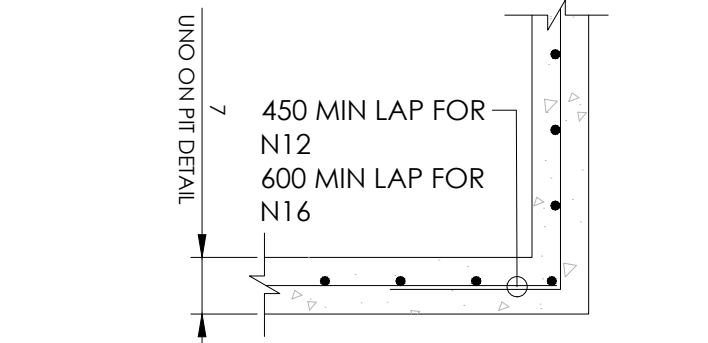
TYPICAL OCEANGUARD ARRANGEMENT DETAIL - SURFACE INLET TREATMENT
NOT TO SCALE
NOTE:
REFER TO MANUFACTURER'S DRAWINGS FOR OCEANGUARD FILTER ARRANGEMENT AND COMPONENTS DETAILS



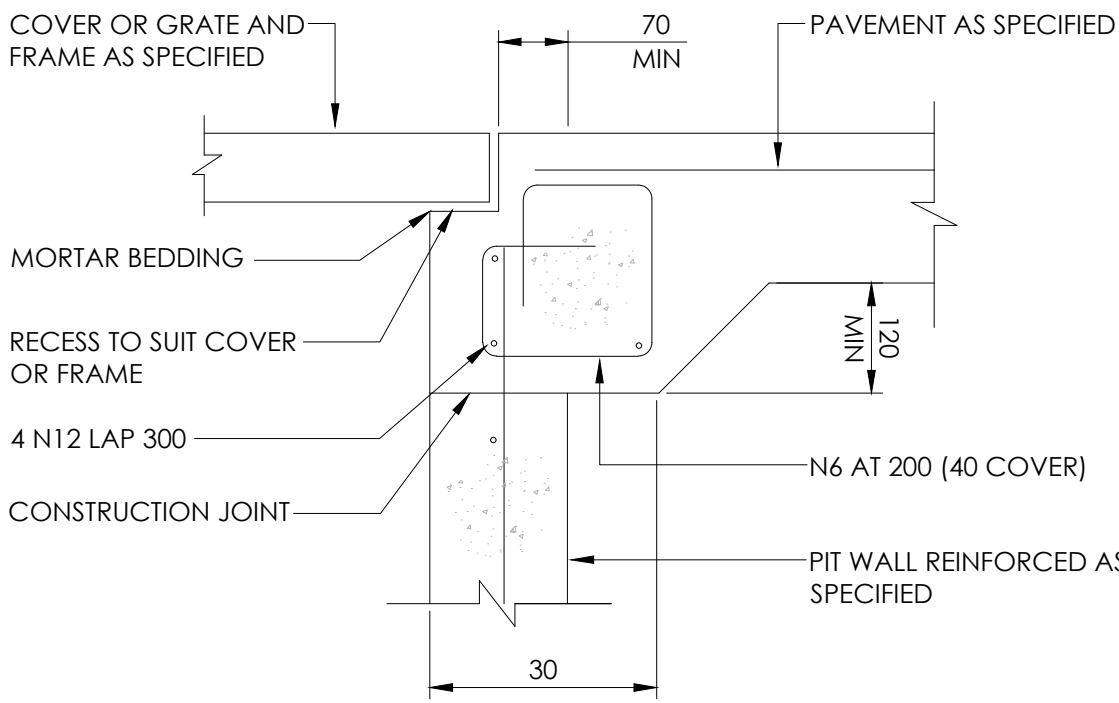
TYPICAL OCEANGUARD ARRANGEMENT DETAIL - DOWNPIPE CONNECTION / DROP PIT
NOT TO SCALE
NOTE:
REFER TO MANUFACTURER'S DRAWINGS FOR OCEANGUARD FILTER ARRANGEMENT AND COMPONENTS DETAILS



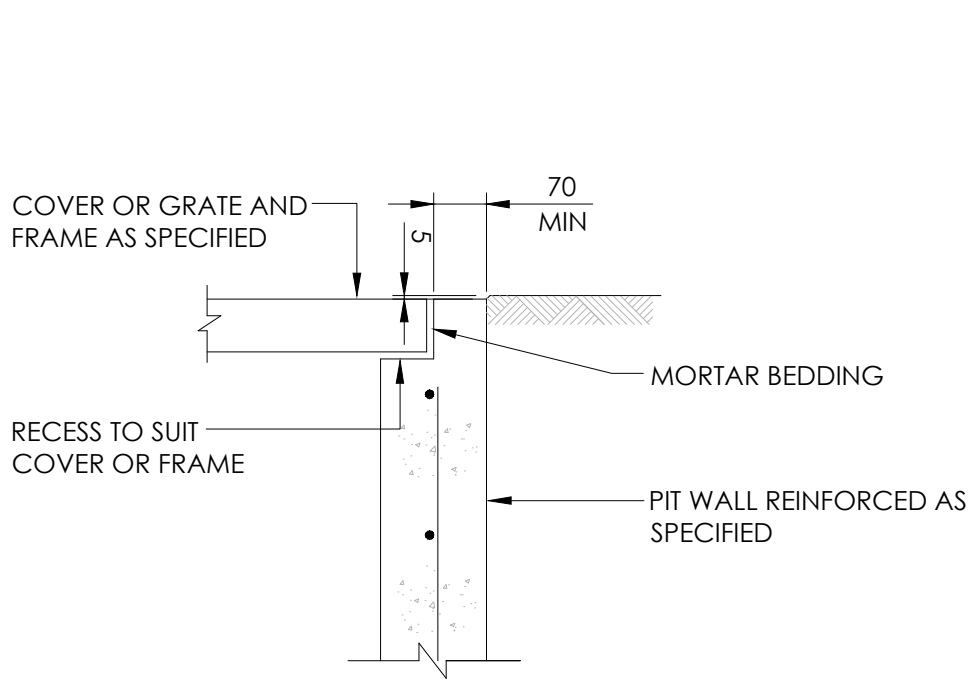
PIT EDGE DETAIL "B"
SCALE 1:10



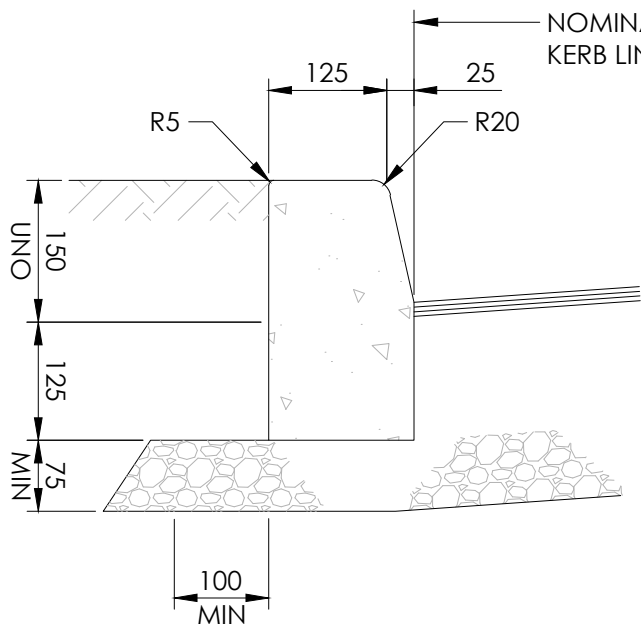
TYPICAL PIT CORNER DETAIL
SCALE 1:20



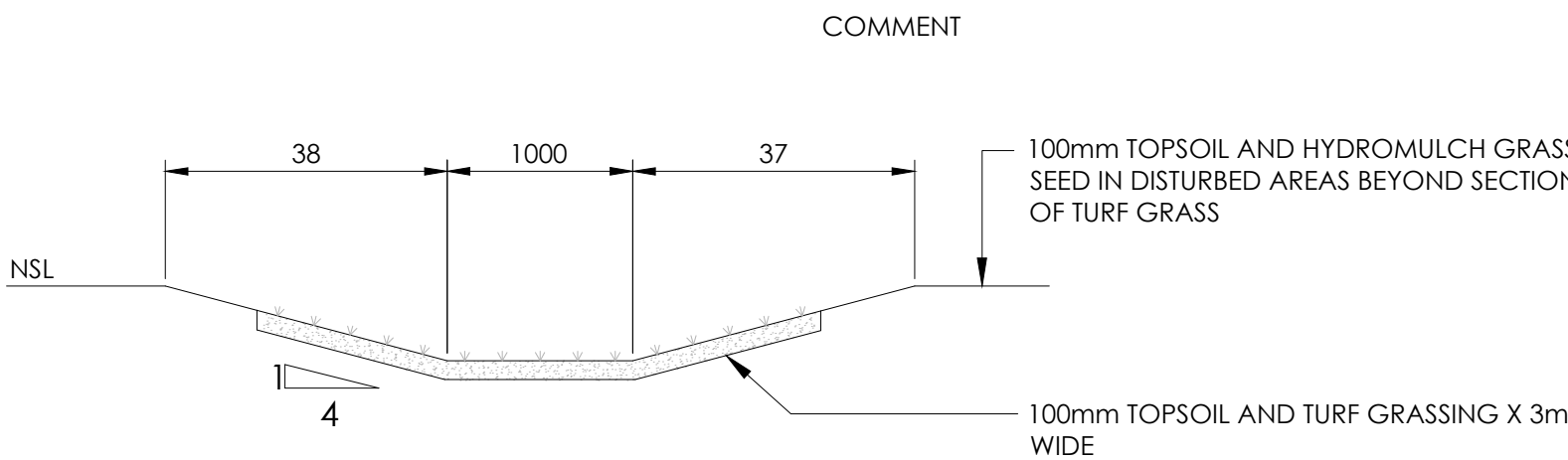
PIT EDGE DETAIL "A"
SCALE 1:10



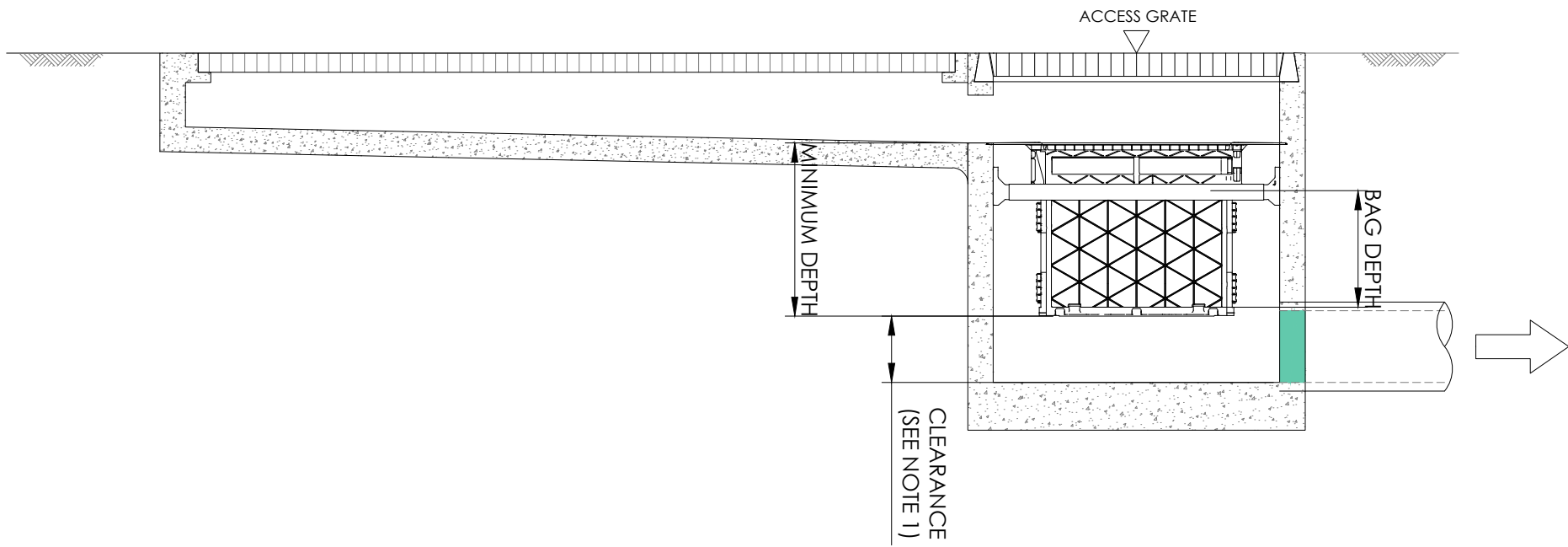
PIT EDGE DETAIL "C"
SCALE 1:10



KERB ONLY
SCALE 1:10
SHOWN AS "KO"



TYPICAL STORMWATER DRAINAGE SWALE
NTS



OCEANGUARD GRATED STRIP DRAIN CONFIGURATION

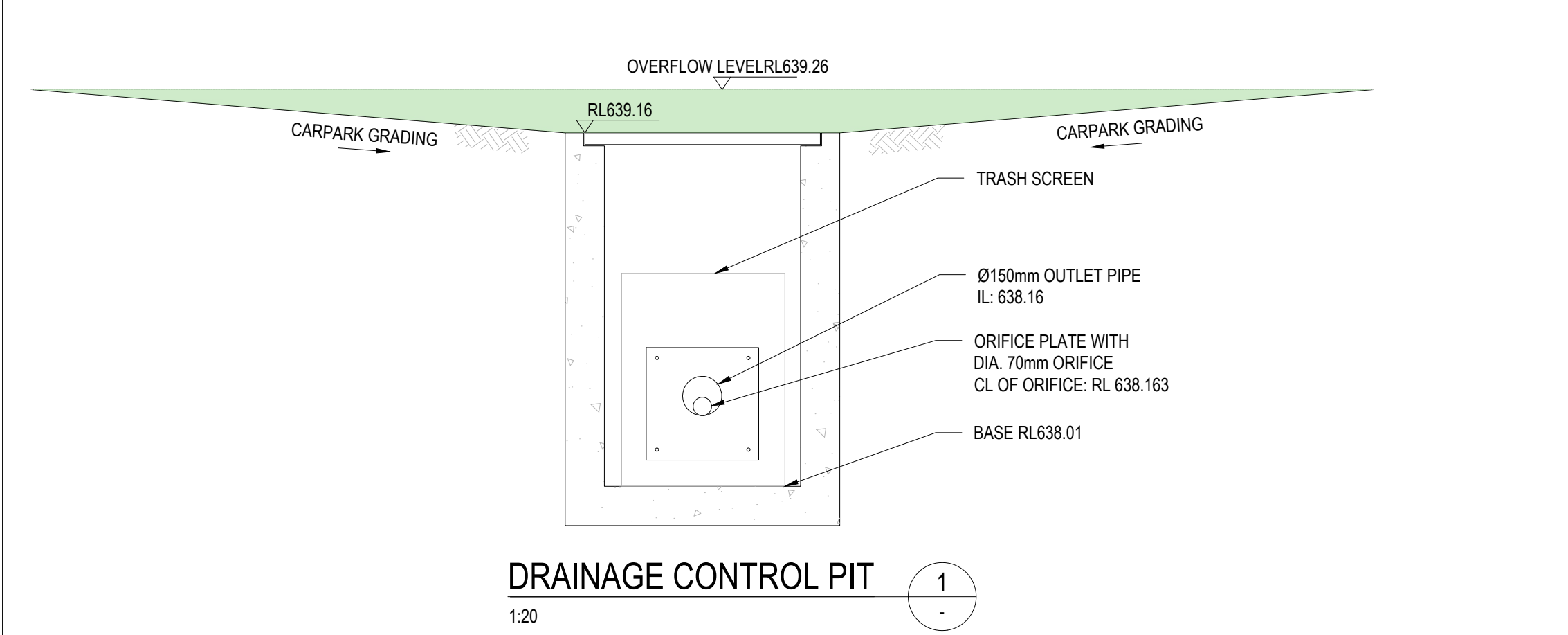
PIT SCHEDULE				
SIZE	PIT AND LID TYPE	CLASS	PIT NUMBER	COMMENT
450 x 450	JUNCTION PIT WITH CONCRETE INFILL LID	B	C1,C2,C3,D1,D2,D3,D4	
900 x 900	JUNCTION PIT WITH CONCRETE INFILL LID	B	B1	
900 x 900	SURFACE INLET PIT	D	B3	GRATED STRIP DRAIN WITH OCEAN GUARD PIT BASKET. REFER TO DETAIL.
900 x 900	SURFACE INLET PIT WITH HEELSAFE GRATE	B	A2,A3,A4,A5	A2 - JELLYFISH FILTER PIT BY OCEAN PROTECT. REFER TO DETAIL.
	KERB INLET PIT TO COUNCIL STANDARD DRAWING SD-D-02	D	EX1, A1, B4	EX1 - MAKE NEW CONNECTION TO EXISTING STORMWATER PIT. EXISTING ASSUMED DOWNSTREAM INVERT LEVEL 21.15.

PIT SCHEDULE

PLAN ID		MAXIMUM PIT PLAN DIMENSIONS	
S		450mm x 450mm	
M		600mm x 600mm	
L		900mm x 900mm	
XL		1200mm x 1200mm	

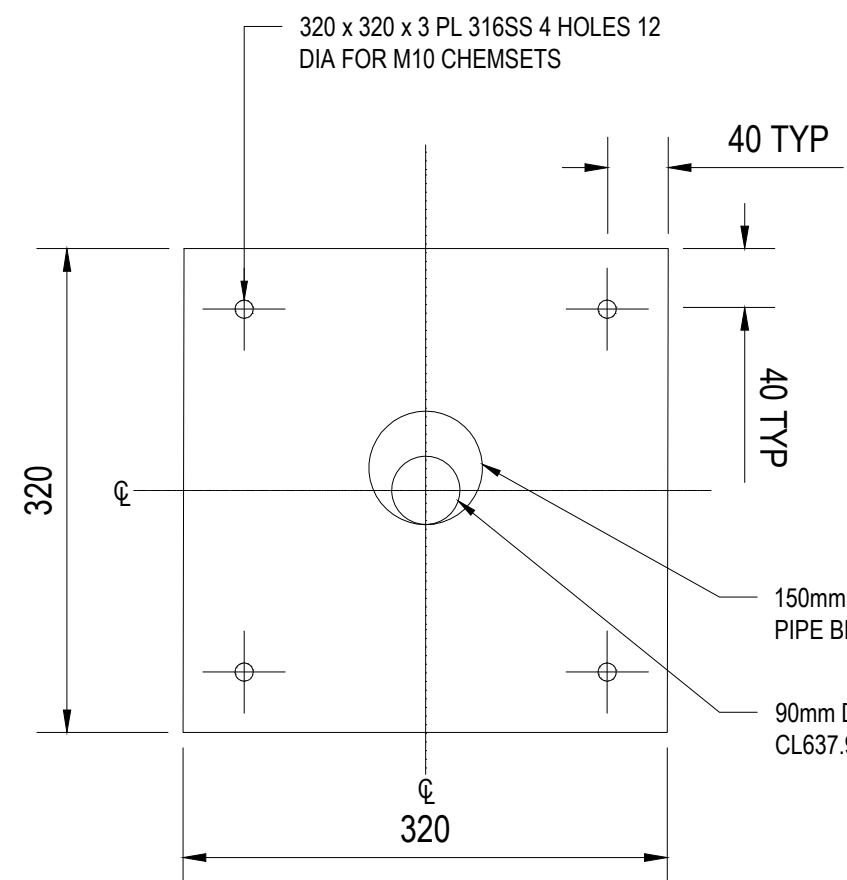
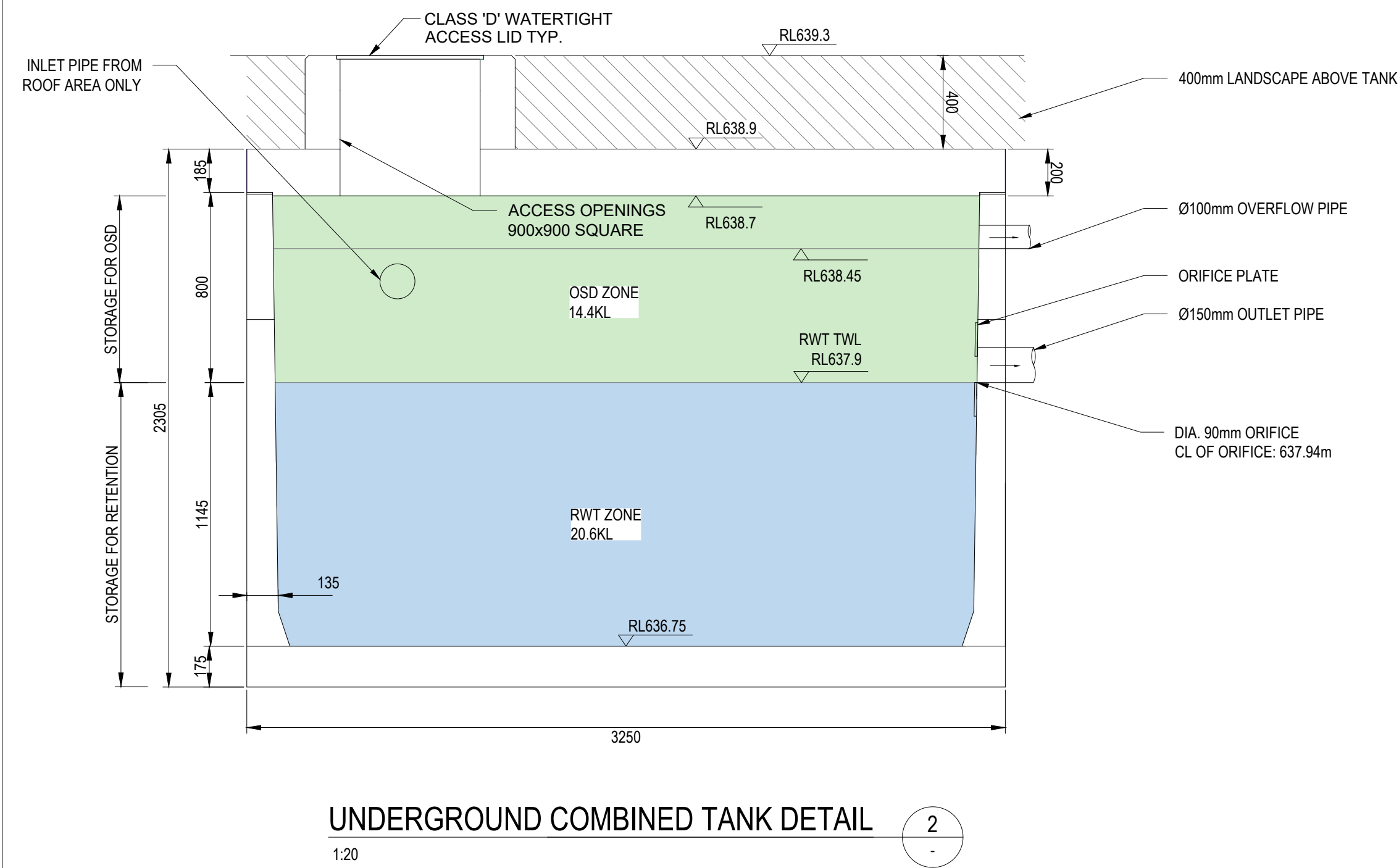
DEPTH ID			BAG DEPTH		OVERALL DEPTH	
1			170		270	
2			300		450	
3			600		700	

PLAN ID		DEPTH ID			
S		1	2	3	
M		■	■	■	
L		■	■	■	■
XL		■	■	■	■

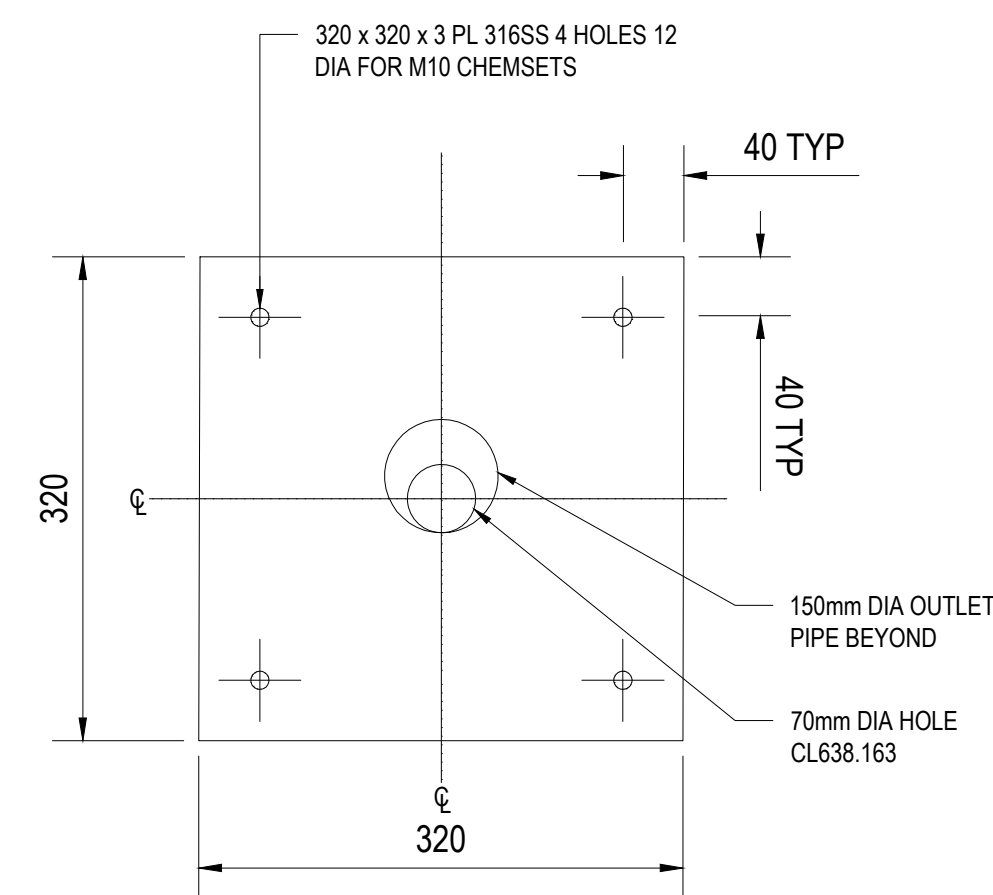


PRE - DEVELOPMENT	FLows (L/s)
Q ₅ = 20% AEP	28
Q ₁₀ = 10% AEP	36
Q ₂₀ = 5% AEP	43
Q ₁₀₀ = 1% AEP	59
POST - DEVELOPMENT	FLows (L/s)
Q ₅ = 20% AEP	27
Q ₁₀ = 10% AEP	33
Q ₂₀ = 5% AEP	37
Q ₁₀₀ = 1% AEP	51

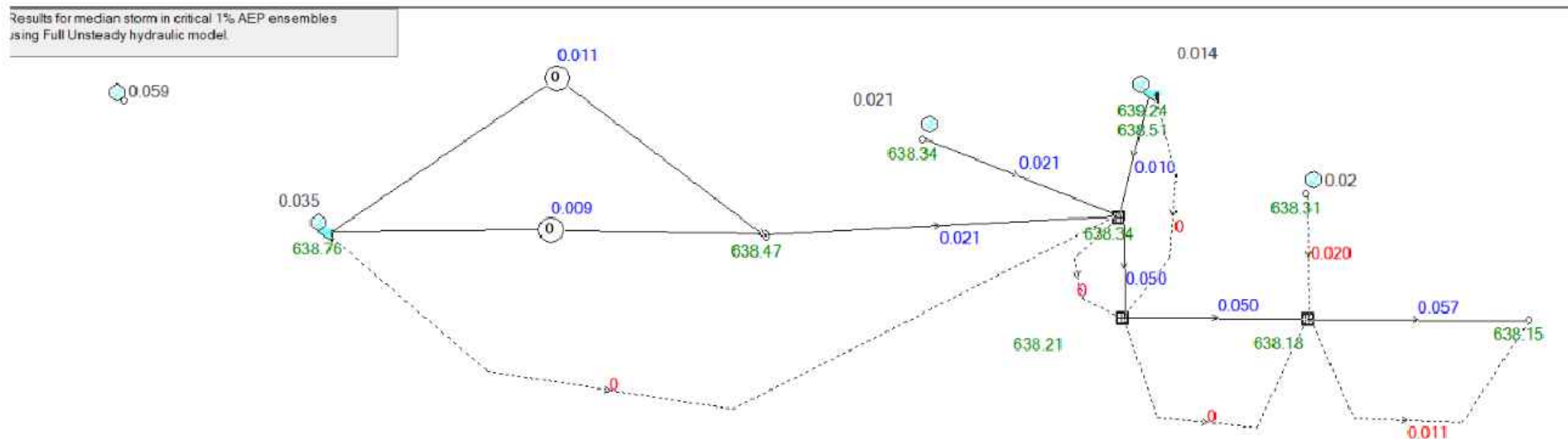
DRAINS RESULT SUMMARY



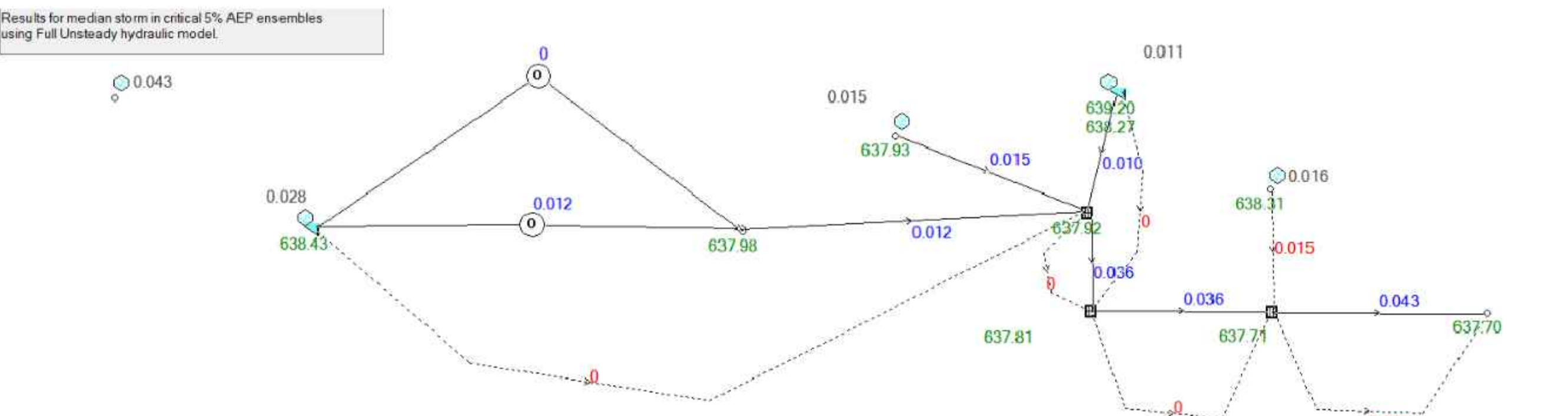
ORIFICE PLATE - OSD TANK
SCALE 1:10



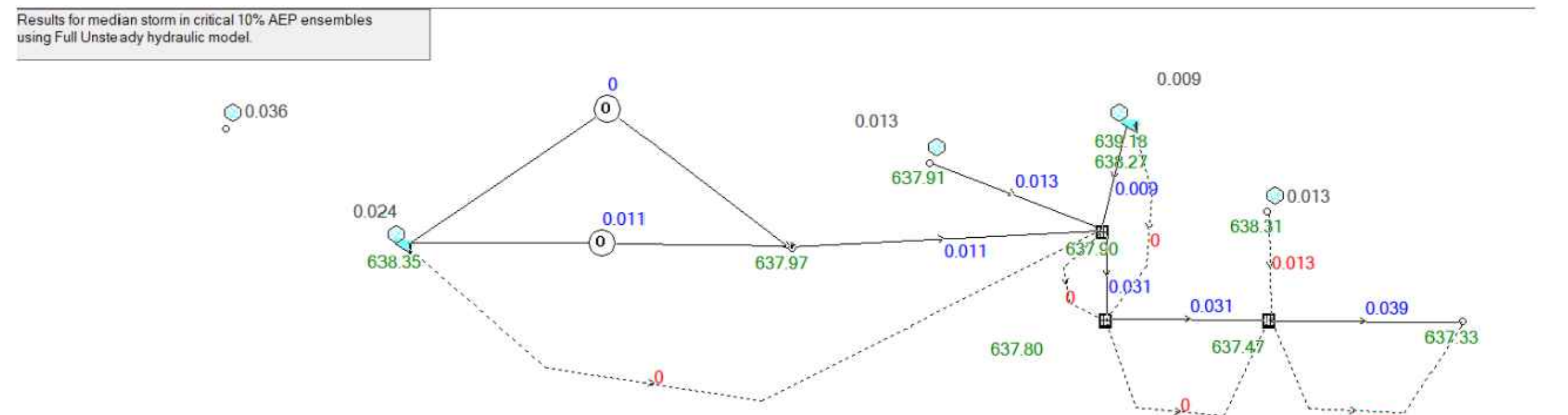
ORIFICE PLATE - DRAINAGE CONTROL PIT
SCALE 1:10



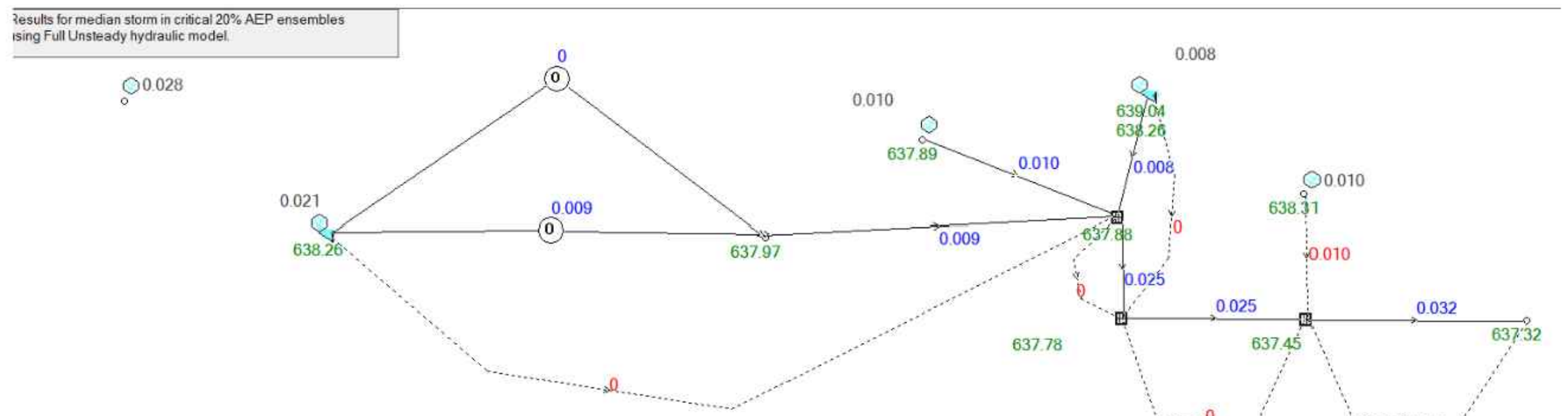
1% AEP RESULTS



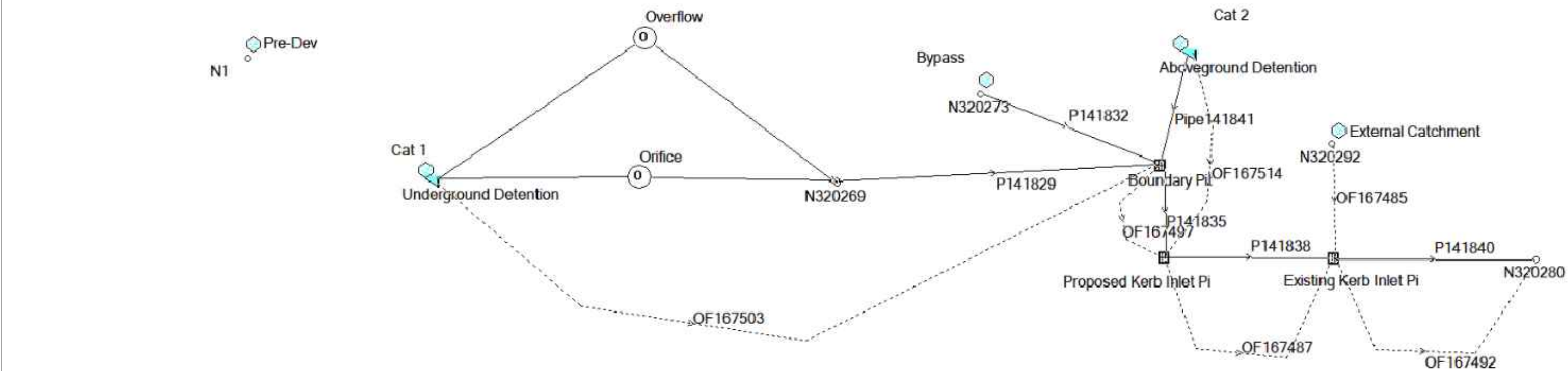
5% AEP RESULTS



10% AEP RESULTS



20% AEP RESULTS



DRAINS MODEL

				CLIENT		ARCHITECT		CIVIL CONSULTANT		PROJECT		NORTH POINT		DRAWING TITLE					
										RESIDENTIAL FLAT BUILDING				ONSITE DETENTION ANALYSIS					
D	RE-ISSUE FOR PART 5 SUBMISSION	15.05.25	YS	NP									38-42 GERATHY STREET GOULBURN, NSW 2580		DRAWN YS	DATE DEC 2024	SCALE NTS	A1	QA CHECK DATE
C	ISSUE FOR PART 5 SUBMISSION	28.02.25	YS	NP											DESIGNED NP	PROJECT NO. 240208			
B	ISSUE FOR REVIEW	07.01.25	YS	NP															
A	ISSUE FOR REVIEW	20.12.24	YS	NP															
ISSUE	AMENDMENT	DATE	DRAWN	APP															



THE MAJOR POTENTIAL POLLUTANTS OF CONCERN ARE SEDIMENTS FROM EROSION EFFECTS AS WELL AS STORMWATER POLLUTANTS SUCH AS SUSPENDED SOLIDS, NITROGEN, PHOSPHORUS AND GROSS POLLUTANTS.

SEDIMENTATION IS MOST LIKELY TO OCCUR DURING CONSTRUCTION WORKS FROM THE EROSION OF UNPROTECTED AND EXPOSED EARTHWORKS.

STORMWATER POLLUTANTS ARE LIKELY TO OCCUR POST CONSTRUCTION AFTER BUILDING OCCUPATION AS THE PROPOSED DEVELOPMENT WILL INCREASE THE AMOUNT OF POLLUTION GENERATED FROM SITE.

2. SEDIMENT AND EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE 'BLUE BOOK' TO ENSURE ANY SEDIMENT GENERATED DURING CONSTRUCTION ARE CONTROLLED AND CONFINED TO THE SITE. THESE INCLUDE GEOTEXTILE PIT INLET FILTERS, SEDIMENT FENCES AND BASINS TO FILTER CONSTRUCTION SITE WATER PRIOR TO DISCHARGE TO COUNCIL DRAINAGE. REFER TO DRAWING C300 AND C310 FOR EROSION CONTROL PLAN AND DETAILS.

STORMWATER POLLUTANTS SUCH AS SUSPENDED SOLIDS, NITROGEN AND PHOSPHORUS WILL BE REDUCED TO BELOW PRE-DEVELOPED LEVELS BY THE USE OF PROPRIETARY WATER QUALITY TREATMENT DEVICES SUPPLIED BY OCEAN PROTECT. THESE INCLUDE AT SOURCE LITTER BASKET PIT INSERTS AND FILTERRA BIOSCAPE BIO-RETENTION BASIN. THE POLLUTANT REMOVAL HAS BEEN MODELLED USING INDUSTRY STANDARD PROGRAM MUSIC AND USES ENDORSED WATER NSW TREATMENT NODES. REFER TO MUSIC MODEL OPPOSITE AND DETAILS ON DRAWING C421 FOR FURTHER INFORMATION.

3. ALL WATER QUALITY TREATMENT DEVICES HAVE BEEN DESIGNED FOR APPROPRIATE STORM EVENTS TO PREVENT DAMAGE TO THE ENVIRONMENT.

SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THAT THEY CONTINUE TO OPERATE EFFECTIVELY. REPAIR AND OR MAINTENANCE MAY BE REQUIRED TO RECTIFY ANY DAMAGED FILTERS OR FENCES AFTER SIGNIFICANT RAIN.

STORMWATER QUALITY DEVICES SUCH AS THE OCEANGAARD AND FILTERRA SHOULD BE MAINTAINED IN ACCORDANCE WITH OCEAN PROTECT'S MAINTENANCE SCHEDULE. GENERALLY, DEVICES SHOULD BE INSPECTED TO REMOVE DEBRIS AFTER EACH LARGE RAINFALL EVENT OR EACH 6 MONTHS.

4. THE ABOVE DESCRIBED ONSITE TREATMENT MEASURES WILL ENSURE THAT POLLUTANTS ARE ADEQUATELY CONTAINED ON SITE AND PREVENT IMPACTS ON DOWNSTREAM STORMWATER DRAINAGE AND WATERWAYS.

5. A NORBE ASSESSMENT HAS BEEN UNDERTAKEN TO ENSURE THAT A BENEFICIAL EFFECT OF 10% POLLUTANT REDUCTION FROM PRE-DEVELOPED STATE OCCURS AS A RESULT OF THE WORKS. REFER TO DRAWING C420 FOR MUSIC AND NORBE RESULTS. A COPY OF THE MUSIC MODEL HAS BEEN PROVIDED AS PART OF THIS SUBMISSION.

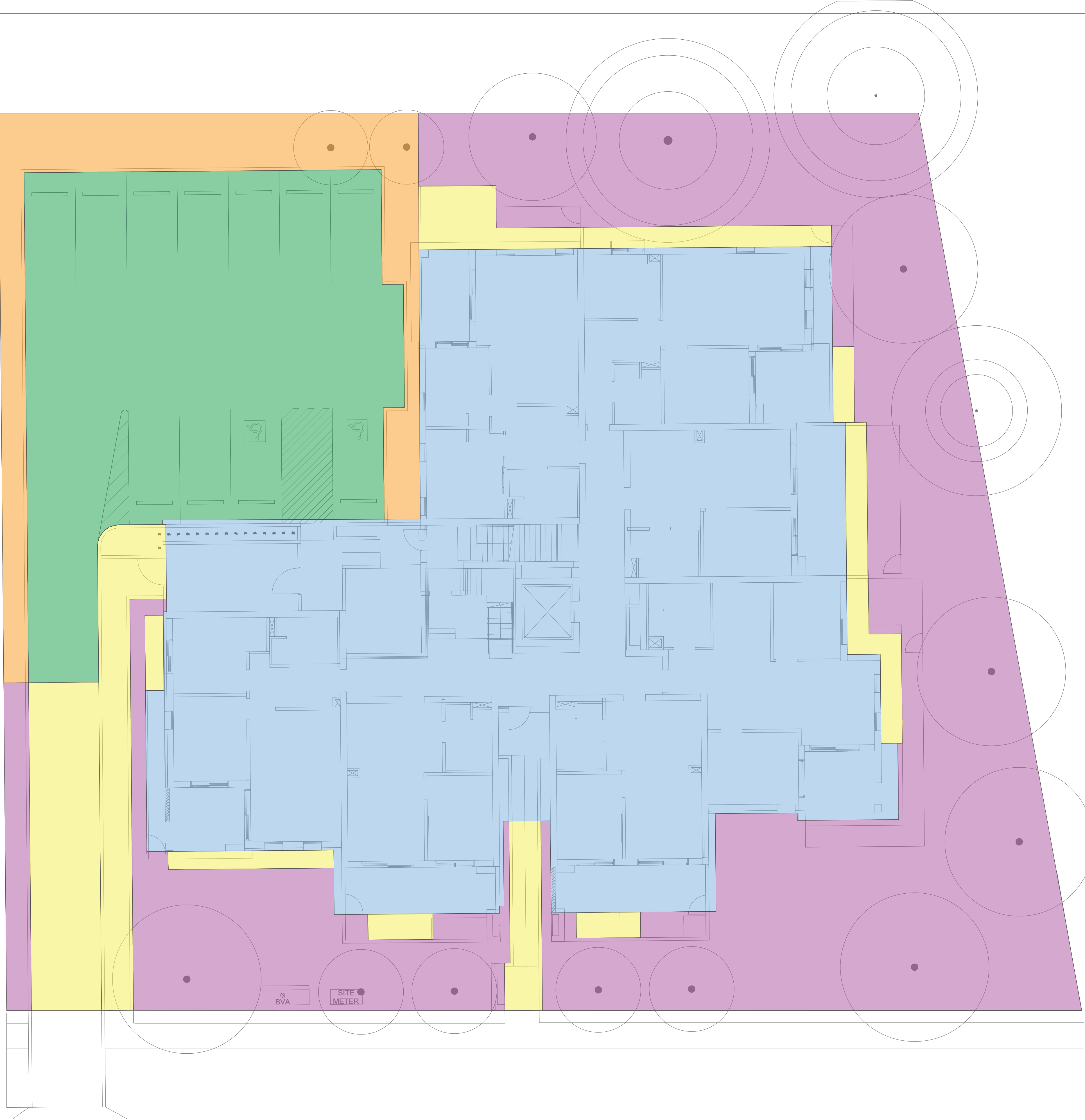
MUSIC MODEL RESULTS

NORBE - RESIDUAL LOAD COMPARISON

NORBE	SOURCE	RESIDUAL	%
FLOW (TML/yr)	0.425	0.595	-40.0%
TOTAL SUSPENDED SOLIDS (kg/yr)	54.3	13.5	75.1%
TOTAL PHOSPHORUS (kg/yr)	0.111	0.0849	23.5%
TOTAL NITROGEN (kg/yr)	0.933	0.819	12.2%
GROSS POLLUTANTS (kg/yr)	8.96	0.0691	99.2%

NORBE MODEL RESULTS

[illegible]



LEGEND

PRE - DEVELOPMENT AREA (m²)

TOTAL SITE AREA = 1981
IMPERVIOUS AREA = 450 (23%)
PERVIOUS AREA = 1531 (77%)

POST - DEVELOPMENT AREA (m²)

TOTAL SITE AREA = 1981
IMPERVIOUS AREA = 1300 (65%)
PERVIOUS AREA = 681 (35%)

UNDERGROUND OSD CATCHMENT (ROOF ONLY) (m²)

TOTAL AREA=817
IMPERVIOUS AREA = 817 (100%)
PERVIOUS AREA = 0 (0%)

CARPARK DETENTION CATCHMENT (m²)

TOTAL AREA=410

IMPERVIOUS AREA = 307 (77%)

PERVIOUS AREA = 103 (23%)

AREA BYPASS DETENTION (m²)

TOTAL AREA=767

IMPERVIOUS AREA = 176 (17%)

PERVIOUS AREA = 591 (83%)

Location

Label: Not provided
Latitude: -34.7387 [Nearest grid cell: 34.7375 (S)]
Longitude: 149.7158 [Nearest grid cell: 149.7125 (E)]



IFD Design Rainfall Intensity (mm/h)

Issued: 16 January 2025

Rainfall intensity for Durations, Exceedance per Year (EY), and Annual Exceedance Probabilities (AEP).
[FAQ for New ARR probability terminology](#)

Table Chart

Unit: mm/h

Duration	Annual Exceedance Probability (AEP)						
	63.2%	50%#	20%*	10%	5%	2%	1%
1 min	88.4	99.8	135	159	182	213	236
2 min	73.2	81.5	107	124	141	162	177
3 min	67.4	75.3	99.7	116	132	152	167
4 min	63.1	70.7	94.4	110	126	146	161
5 min	59.4	66.8	89.7	105	120	140	154
10 min	46.1	52.2	71.1	83.9	96.4	113	125
15 min	37.9	43.0	58.7	69.3	79.6	93.2	104
20 min	32.4	36.7	50.0	59.0	67.7	79.2	88.0
25 min	28.5	32.2	43.7	51.5	59.0	69.0	76.5
30 min	25.5	28.8	38.9	45.8	52.4	61.2	67.8

D	RE-ISSUE FOR PART 5 SUBMISSION	15.05.25	YS	NP
C	ISSUE FOR PART 5 SUBMISSION	28.02.25	YS	NP
B	ISSUE FOR REVIEW	07.01.25	YS	NP
A	ISSUE FOR REVIEW	20.12.24	YS	NP
ISSUE	AMENDMENT	DATE	DRAWN	APP



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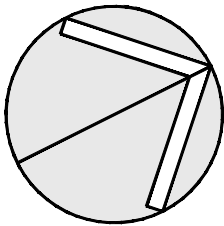
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CONSULTANTS

PROJECT

RESIDENTIAL FLAT BUILDING

38-42 GERATHY STREET
GOULBURN, NSW 2580

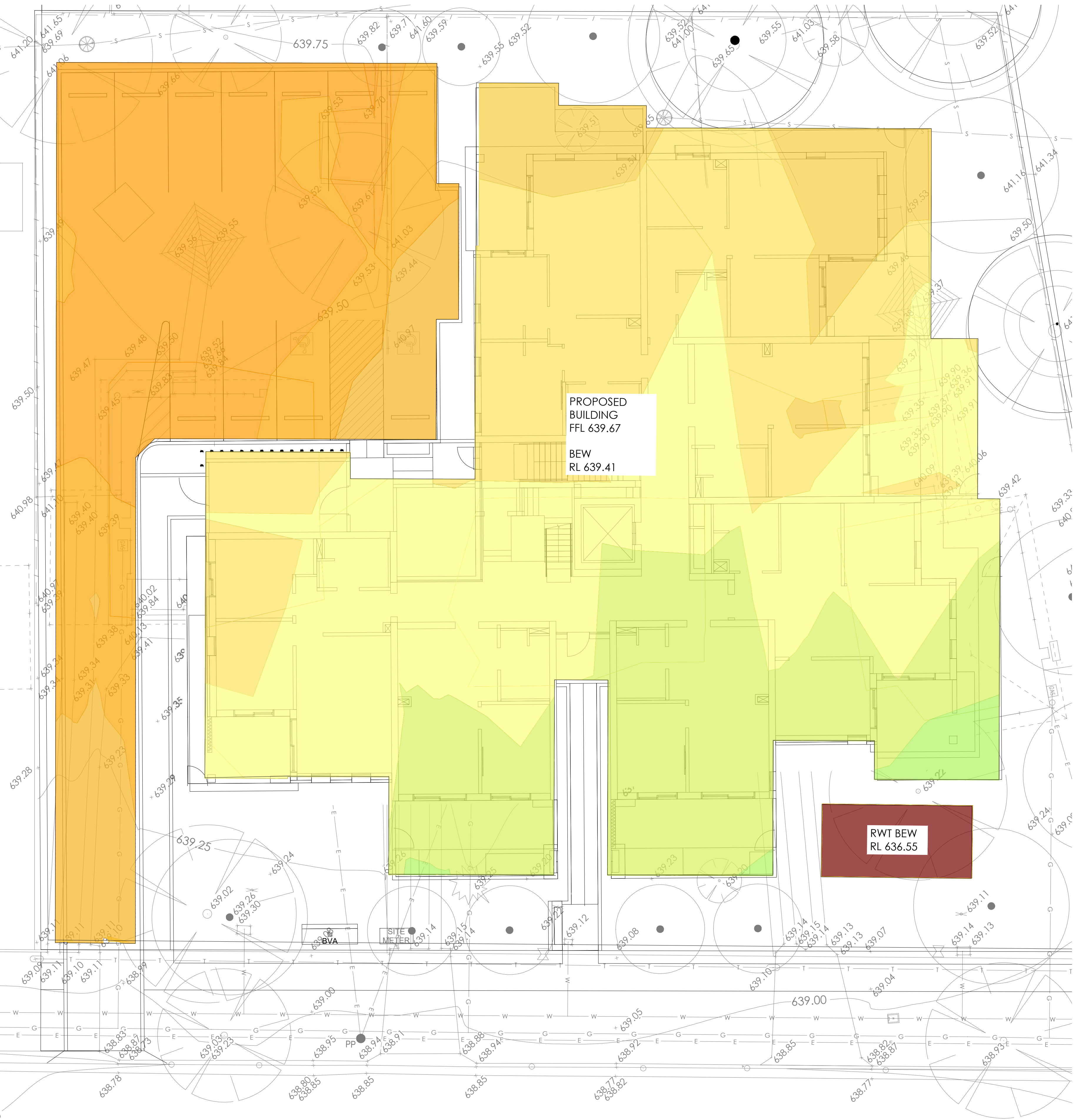
NORTH POINT



DRAWING TITLE

CATCHMENT PLAN

DRAWN YS	DATE DEC 24	SCALE 1:100	A1	QA CHECK	DATE
DESIGNED NP	PROJECT NO. 240208	DRAWING NO. C600		ISSUE D	



CUT & FILL RANGE	
DEPTH (m)	COLOR
-2.6 ~ -2.7	
-0.6 ~ -0.5	
-0.5 ~ -0.4	
-0.4 ~ -0.3	
-0.3 ~ -0.2	
-0.2 ~ -0.1	
-0.1 ~ 0	
0 ~ .01	
0.1 ~ 0.2	

EARTHWORK QUANTITIES

TOTAL CUT = -283.7m²
TOTAL FILL = 11.3m²
BALANCE = -272.3m³
EXCESS CUT TO BE REMOVED FROM SITE = 272.3m³

NOTES

1. EARTHWORK QUANTITIES ARE THEORETICAL AND INDICATIVE ONLY.
2. VOLUMES HAVE BEEN CALCULATED BETWEEN THE EXISTING SURVEYED SURFACE AND DESIGN FINISHED SURFACE.
3. NO ALLOWANCE HAS BEEN MADE FOR STRIPPING OF TOPSOIL, BUILDING SLABS, PAVEMENTS OR LANDSCAPING DEPTHS.
4. VOLUME ALLOW 260mm FOR STRUCTURAL SLAB AND PAVEMENT DEPTH AS SPECIFIED ON PAVEMENT PLAN.
5. VOLUMES ARE BASED ON INSITU MATERIAL AND DO NOT ACCOUNT FOR MATERIAL BULKING FACTORS OR COMPACTION REQUIREMENTS.
6. IT IS ASSUMED THAT THE EXCAVATED MATERIAL CAN BE REUSED ONISTE AS ENGINEERED FILL AND IS REFLECTED IN THE CUT AND FILL BALANCE CALCULATION.

D	RE-ISSUE FOR PART 5 SUBMISSION	15.05.25	YS	NP	
C	ISSUE FOR PART 5 SUBMISSION	28.02.25	YS	NP	
B	ISSUE FOR REVIEW	07.01.25	YS	NP	
A	ISSUE FOR REVIEW	20.12.24	YS	NP	
ISSUE	AMENDMENT	DATE	DRAWN	APP	

CLIENT



ARCHITECT



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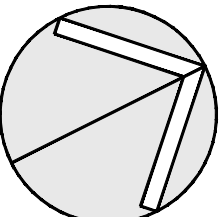


PROJECT

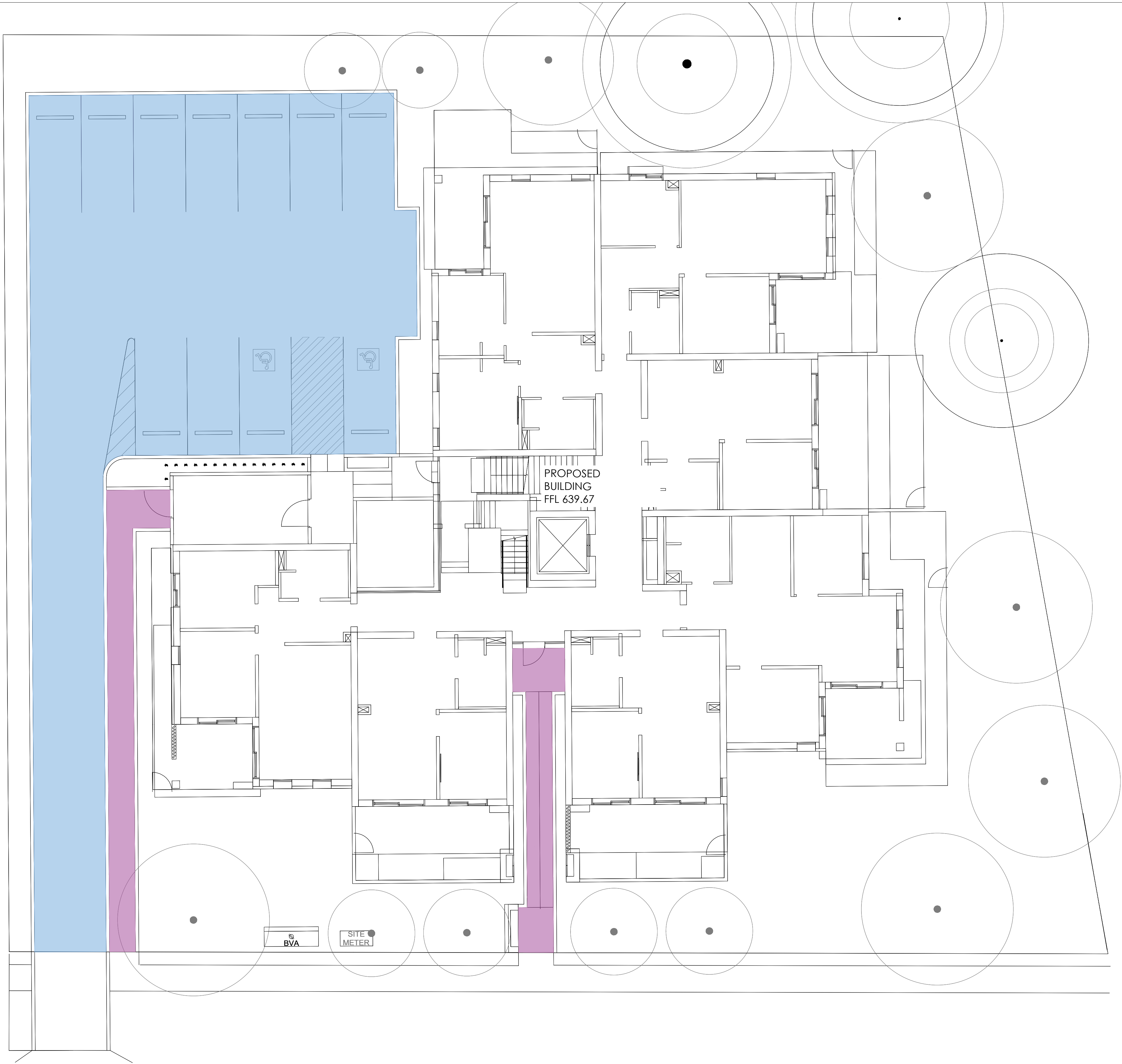
RESIDENTIAL FLAT BUILDING

38-42 GERATHY STREET
GOULBURN, NSW 2580

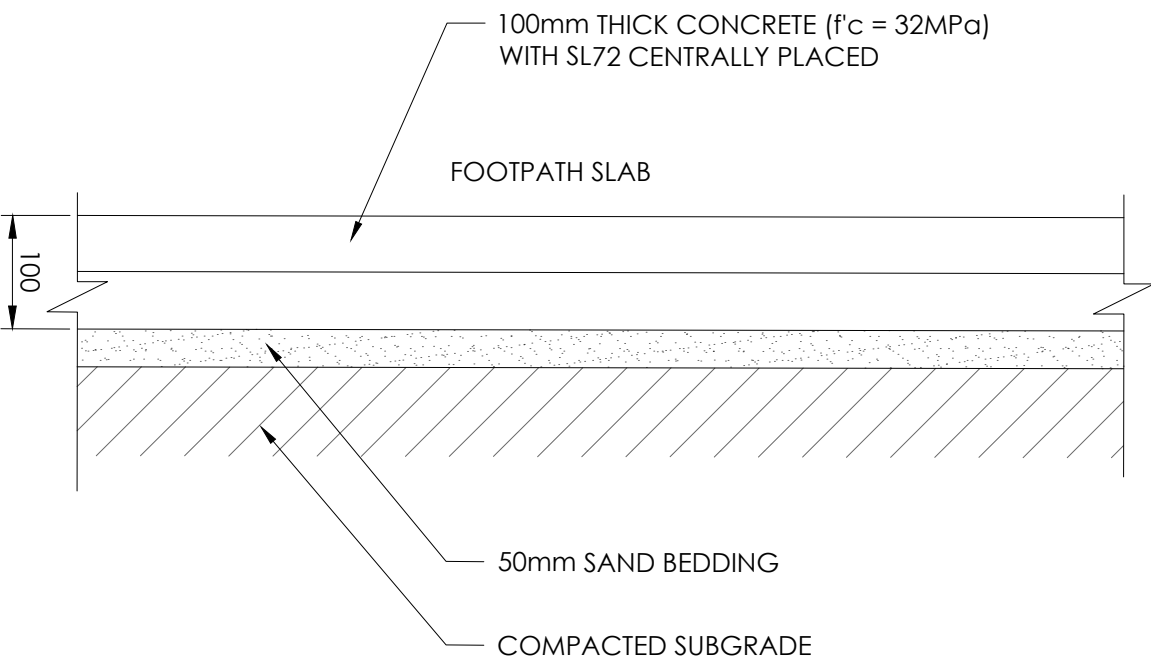
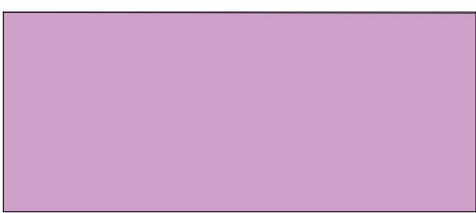
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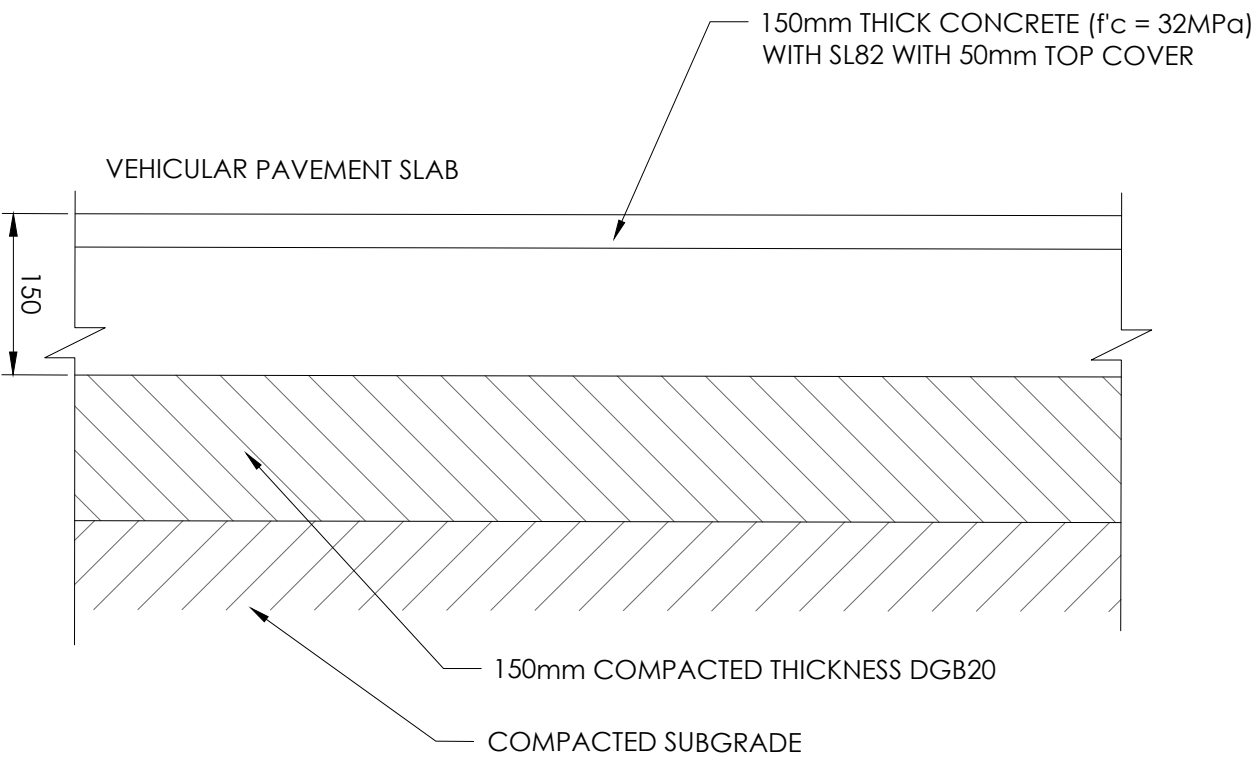
DRAWING TITLE			
CIVIL SERVICES			
CUT & FILL PLAN			
DRAWN YS	DATE DEC 24	SCALE 1:100	A1
DESIGNED NP	PROJECT NO. 240208	DRAWING NO. C700	ISSUE D



LEGEND



CONCRETE PEDESTRIAN FOOTPATH
SCALE 1:10



CONCRETE VEHICULAR PAVEMENT
SCALE 1:10

ISSUE	AMENDMENT	DATE	DRAWN	APP
D	RE-ISSUE FOR PART 5 SUBMISSION	15.05.25	YS	NP
C	ISSUE FOR PART 5 SUBMISSION	28.02.25	YS	NP
B	ISSUE FOR REVIEW	07.01.25	YS	NP
A	ISSUE FOR REVIEW	20.12.24	YS	NP

CLIENT



ARCHITECT

CIVIL CONSULTANT

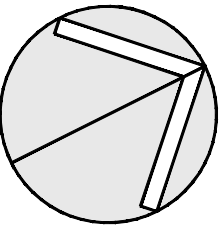


PROJECT

RESIDENTIAL FLAT BUILDING

38-42 GERATHY STREET
GOULBURN, NSW 2580

NORTH POINT



DRAWING TITLE					
CIVIL SERVICES PAVEMENT PLAN					
DRAWN YS	DATE DEC 24	SCALE 1:100	A1	QA CHECK	DATE
DESIGNED NP	PROJECT NO. 240208	DRAWING NO. C800		ISSUE D	

