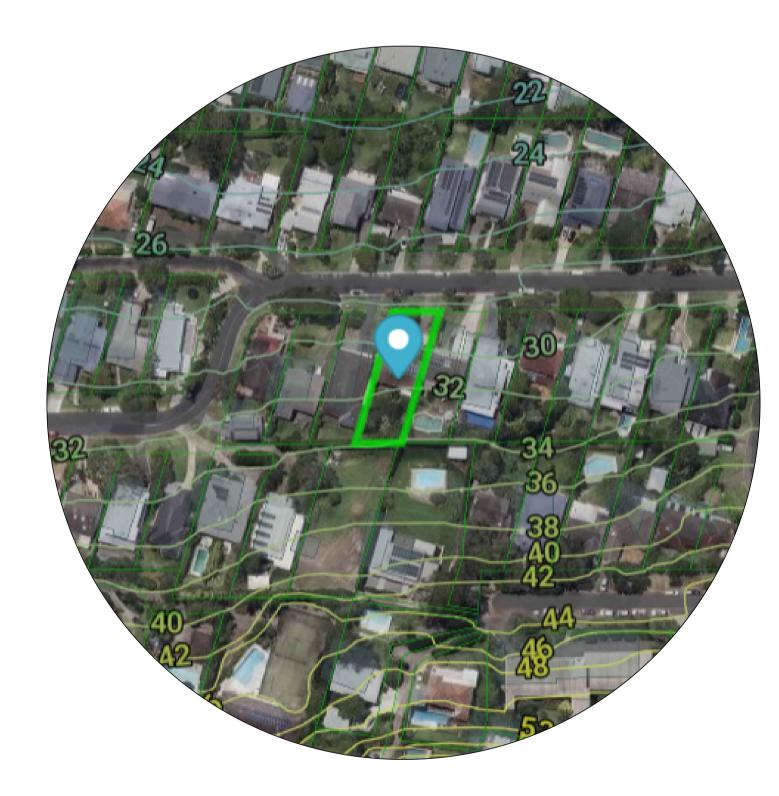
STORMWATER MANAGEMENT 31 WALWORTH AVENUE, NEWPORT DEVELOPMENT APPLICATION

SCHEDULE OF DRAWINGS					
DRAWING No.	DESCRIPTION				
SW00	COVER SHEET				
SW01	STORMWATER MANAGEMENT PLAN				
SW02	STORMWATER MANAGEMENT DETAILS				
SW03	SEDIMENT AND EROSION CONTROL PLAN				



SITE LOCALITY PLAN

GENERAL

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE LOCAL COUNCIL ENGINEERING SPECIFICATIONS.
- FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTS AND OTHER CONSULTANT DRAWINGS. ANY DISCREPANCIES MUST BE REFEREED TO THE ENGINEER BEFORE
- INSPECTIONS BY THE CERTIFIEING AUTHORITY SHALL BE CARRIED OUT FOR ALL THE CIVIL WORKS PRIOR TO RELEASE OF THE HOLD POINTS INCLUDING THE FOLLOWING STAGES: 4.1. PRIOR TO INSTALLATION OF EROSION AND SEDIMENT CONTROL
- 4.2. FINAL INSPECTION AFTER ALL WORKS ARE COMPLETED AND 'WORK AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL
- MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
- NO WORK TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE
- VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
- THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY.

WARNING

BEWARE OF UNDERGROUND SERVICES The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. ocate all underground services before commencement of works **DIAL 1100 BEFORE YOU DIG** www.1100.com.au

TABLE 7.1 MINIMUM PIPE COVER

Location					Cast iron, ductile iron, galvanized steel	Other authorized products
					Minimum	cover
1	Not	subje	ect to v	ehicular loading:		
	(a)	with	out pa	vement—		
		(i)	for si	ngle dwellings	Nil	100
		(ii)	for of	ther than Item (i)	Nil	300
	(b)	with		nent of brick or unreinforced	Nil†	50†
2	Subj	ect to	vehic	ular loading:		
	(a)	othe	r than	roads—		
		(i)	witho	out pavement	300	450
		(ii)	with	pavement of—		
			(A)	reinforced concrete for heavy vehicular loading	Nil†‡	100†‡
			(B)	brick or unreinforced concrete for light vehicular loading	Nil†‡	75†‡
	(b)	road	s			
		(i)	seale	d	300	500‡
		(ii)	unsea	lled	300	500‡
3				struction equipment loading or	300	500‡

EXISTING UNDERGROUND SERVICES NOTES

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE NCLUDING HAND EXCAVATION WHERE NECESSARY. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.

2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. A

3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.

4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.

5. BASE AND SUB-BASE LAYERS ARE TO BE INSPECTED AND TESTED BY AN INDEPENDENT GEOTECHNICAL TESTING AUTHORITY TO LEVEL 1 RESPONSIBILITY AS DEFINED IN AS3798.

6. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051, COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF BASECOURSE MATERIAL PLACED.

7. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051, AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m3 OF SUB-BASE COURSE MATERIAL PLACED.

8. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.

9. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eq. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

MINIMUM GRADIENT OF SITE STORMWATER DRAINS

size	Millian	gradient	size	William gradient		
DN	Aust.	NZ	DN	Aust.	NZ	
90 100 150	1:100 1:100 1:100	1:90 1:120 1:200	225 300 375	1:200 1:250 1:300	1:350 1:350 1:350	
Γ,	MINIMUM		3500.3	NS EOD		

STORMWATER AND INLET PITS

AS3500.3

STORMWATER DRAINAGE NOTES

- ALL PIPES ON DRAWINGS TO BE MIN 1% GRADE UNLESS NOTED
- . ALL DOWNPIPES TO BE 1000 PVC UNLESS NOTED OTHERWISE.
- B. PIPES 375 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- PIPES 300 DIA AND LESS SHALL BE DWV GRADE (CLASS SN8) uPVC WITH SOLVENT WELDED JOINTS.
- EQUIVALENT STRENGTH FRC PIPES MAY BE USED.
- ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL. REFER TO BEDDING
- PIPES WITH SOCKETS SHALL BE LAID IN BEDDING WHERE SUITABLE RECESSES HAVE BEEN PROVIDED TO ENSURE PIPES DO NOT BEAR ON THEIR SOCKETS.
- . ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN
- OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 (OR A DENSITY INDEX OF NOT LESS THAN 75).
- 10. REFER TO AS/NRS 3725:2007 TABLE B1 FOR REQUIRED FILL DEPTHS ABOVE PIPE BARREL PRIOR TO USE OF COMPACTION MACHINERY OR TRAVERSING OF PIPES BY GENERAL SITE EQUIPMENT.
- 1. WHERE WORKING METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS 3725 (2007) TO DETERMINE THE APPROPRIATE PIPE CLASS.
- 12. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2018) AND AS/NZS 3500 3.2
- 3. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- 14. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- 15. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- 16. GRATES AND COVERS SHALL CONFORM TO AS 3996.
- 7. ALL BOX CULVERTS SHALL BE STRUCTURALLY DESIGNED BY THE MANUFACTURER AND DELIVERED TO SITE AS FIT FOR PURPOSE.
- 18. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 19. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

AS3500.3

1	ISSUED FOR DA	AE	23.01.2025
REVISION	DESCRIPTION	ISSUET	DATE





DRAWN BY	AE	PROJECT 31 WALWORTH AVENUE, NEWPORT	PROJECT NUMBER	FOR APPROVA	L
DRAWN DATE	JAN'25		24244	NOT TO BE USED FOR CONSTRUCT	ION PURPO
COORDINATE SYSTEM	MGA-56	DRAWING TITLE COVER SHEET	SHEET SIZE: A1	DRAWING NUMBER	DF\/.
HEIGHT DATUM	AHD		SHELT SIZE. AT	SW00	KEV:

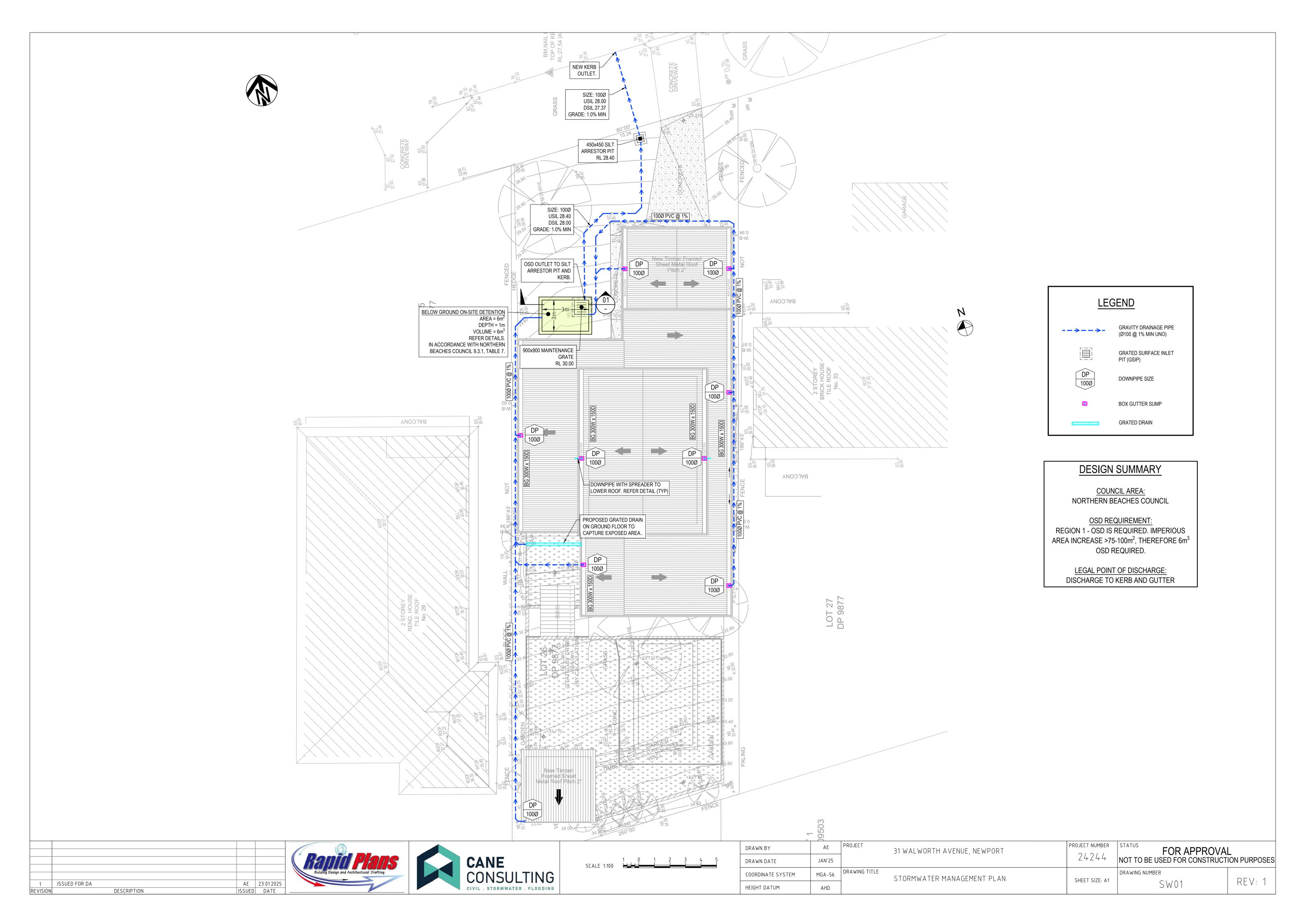


Table 7 Requirements for Size and Allowable Discharge from On-Site Detention Systems

Additional Hard (Impervious) Surface Area (square metres)	Minimum Capacity of On-Site Detention Tank (Litres)	Discharge Rate Litres/Sec
0 -50	Nil	Nil
>50 - 75	4,500	2
>75 - 100	6,000	3
>100 - 150	9,000	4
>150 - 200	12,000	6

90.00 250.00

SIDE ELEVATION

- 20 DIA. GALVANISED

MILD STEEL

STEP IRON DETAIL

FRONT ELEVATION

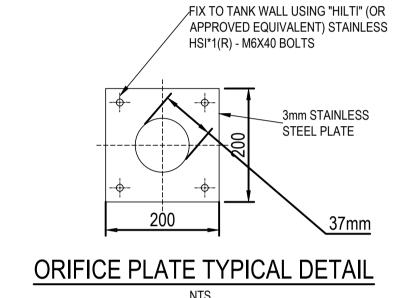
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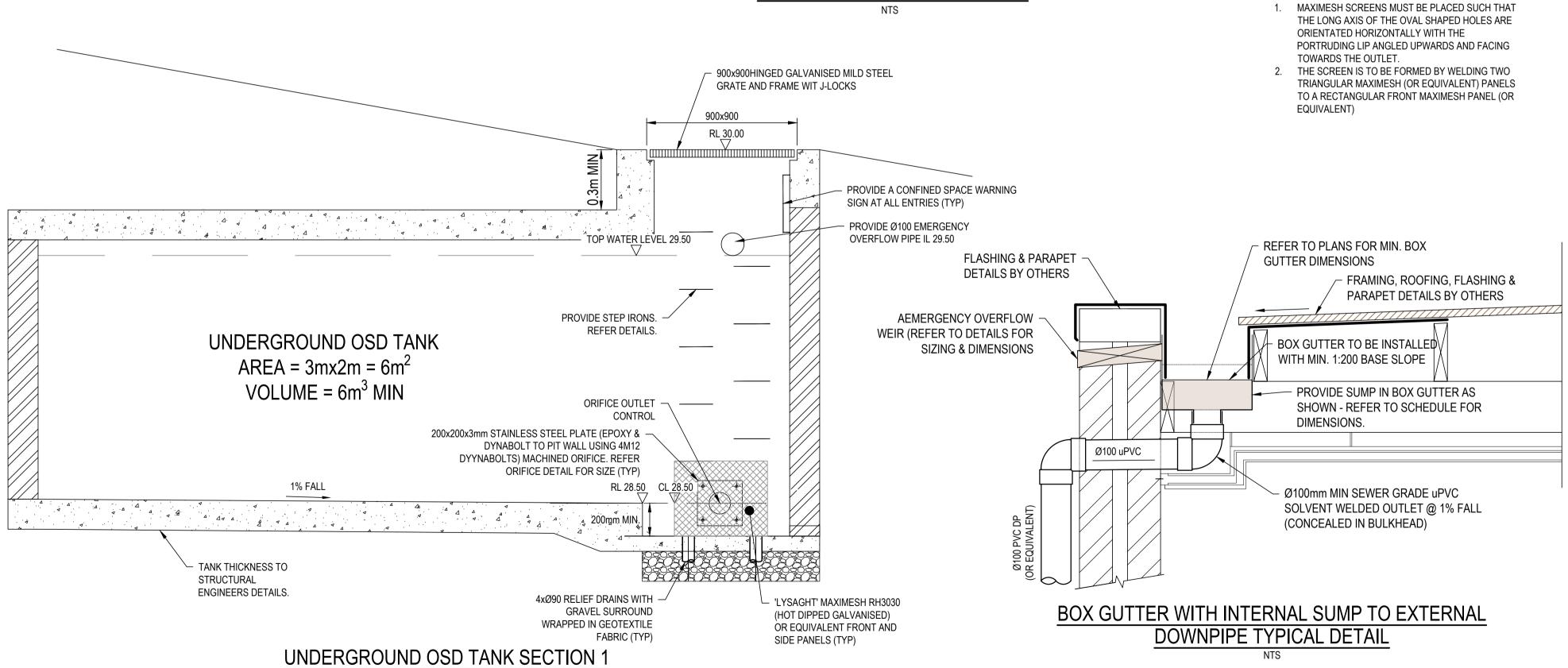
PLAN

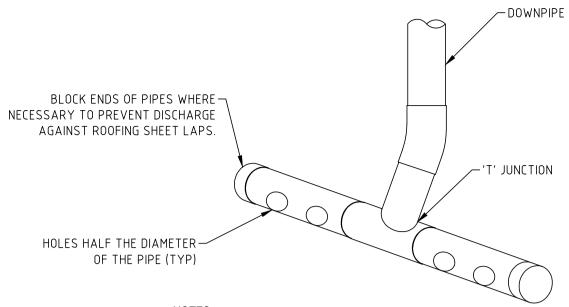
Orifice Sizing

BASIN	OUTLET	DISCHARGE	HEAD OF	OUTLET	PSD
No	DIAMETER	R COEFFICIENT WATER X-SECTIONAL		X-SECTIONAL	
				AREA	
				7.11 (2.71	
	100.000	С	100	m 2	L/s
	mm	٥	m	111 2	L/S
1	37	0.62	1.000	0.001	2.9532

Orifice formula used $Q = C.A.(2,g.h)^{\circ}0.5$

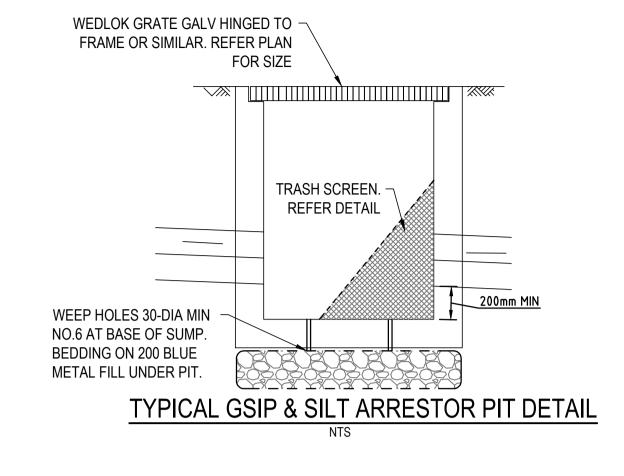


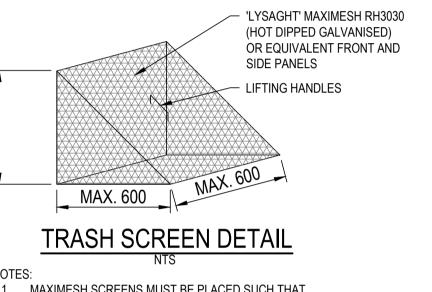


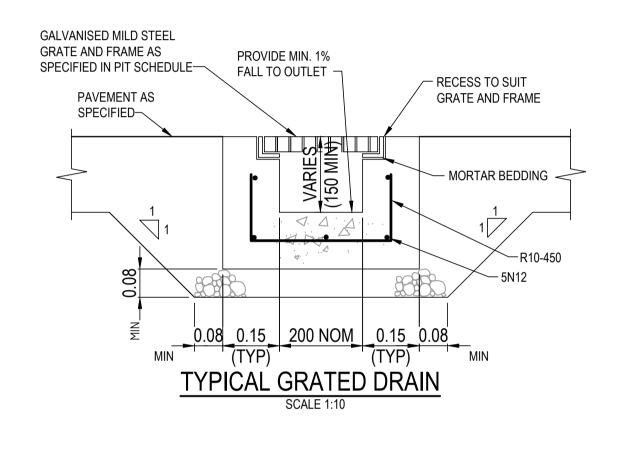


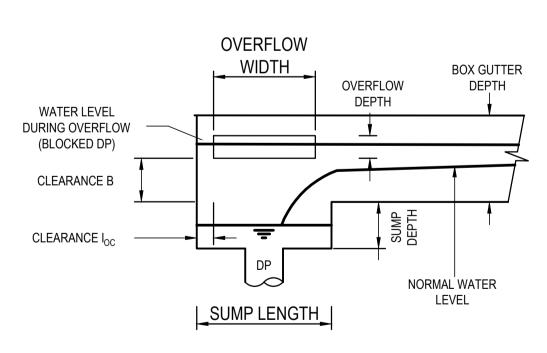
NOTES: - HOLE POSITIONS TO AVOID JOINTS IN ROOFING - WHEN DOWNPIPE IS LOCATED IN A CORNER, SPREADER TO BE

DOWNPIPE LEVEL SPREADER









BOX GUTTER SUMP DIMENSIONS				
DOWNPIPE	Ø100mm			
SUMP DEPTH	150mm			
SUMP LENGTH	400mm			
SUMP WIDTH	300mm			
OVERFLOW WIDTH	300mm			
OVERFLOW DEPTH	73mm			
BOX GUTTER WIDTH	300mm			
BOX GUTTER DEPTH	150mm			
MIN CLEARANCE LOC	22mm			
MIN CLEARANCE B	16mm			

DIMENSIONS

BOX GUTTER WITH INTERNAL SUMP AND SIDE **OVERFLOW DETAIL**

NOT TO SCALE

1	ISSUED FOR DA	AE	23.01.2025
REVISION	DESCRIPTION	ISSUED	DATE

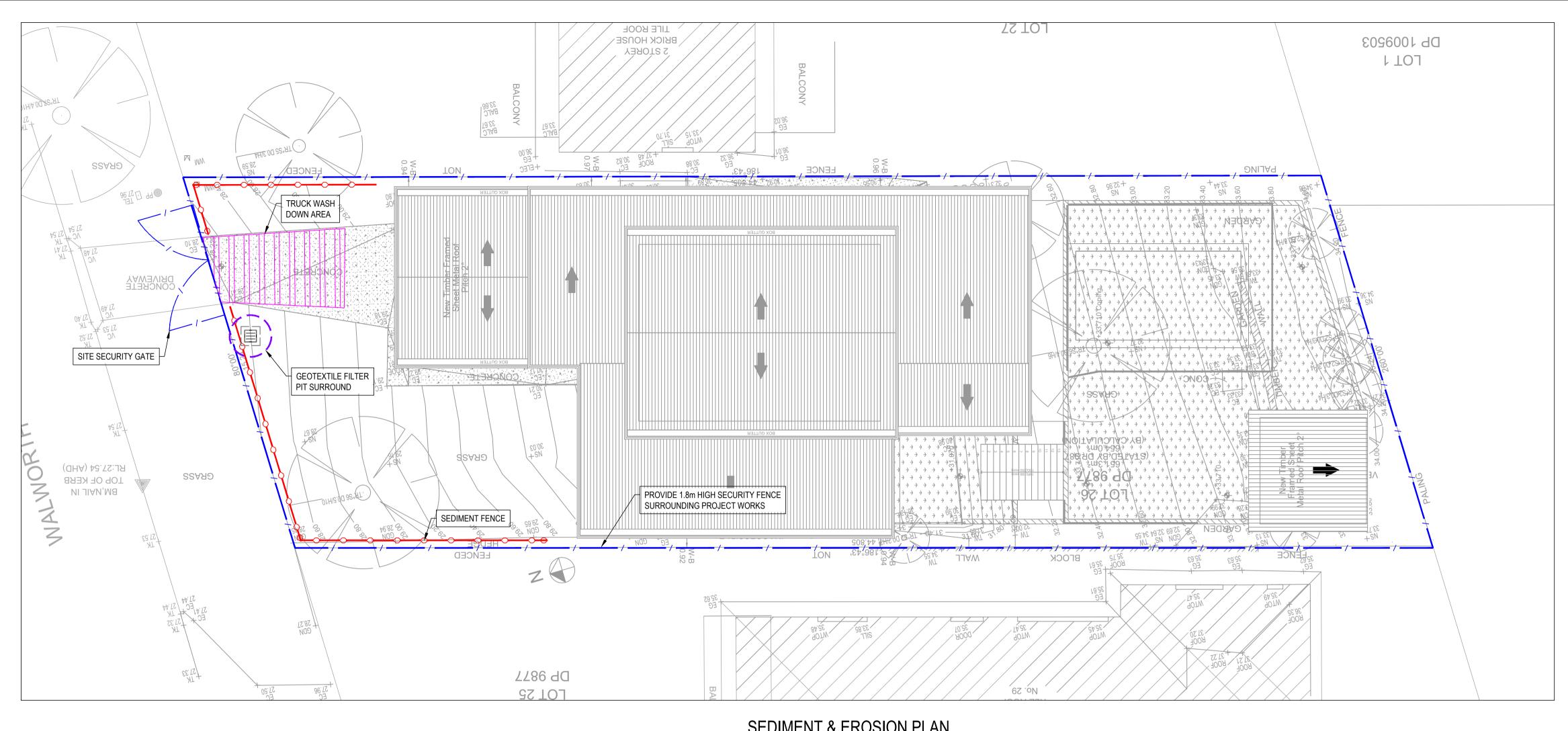


NTS



SCALE 1:100	1 0	1	2	3	4	5

DRAWN BY DRAWN DATE	AE JAN'25	PROJECT	31 WALWORTH AVENUE, NEWPORT		FOR APPROVAL NOT TO BE USED FOR CONSTRUCT	
COORDINATE SYSTEM	MGA-56	DRAWING TITLE	STORMWATER MANAGEMENT DETAILS	SHEET SIZE: A1	DRAWING NUMBER	
HEIGHT DATUM	AHD			SHELT SIZE. AT	SW02	REV: 1



SEDIMENT & EROSION PLAN SCALE 1:100

SEDIMENT AND EROSION CONTROL NOTES

GENERAL INSTRUCTION

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL, NSW OFFICE OF WATER, OFFICE OF ENVIRONMENT AND HERITAGE, THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT
- . THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH a. LOCAL AUTHORITY REQUIREMENTS
- **EPA REQUIREMENTS** NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH
- . MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY. . WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
- . CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:

- INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH
- THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

- DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- B. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES. SEDIMENT CONTROL
- 9. 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.
- 10. 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.
- 1. 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.

- 12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.
- 13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- 14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

OTHER MATTERS

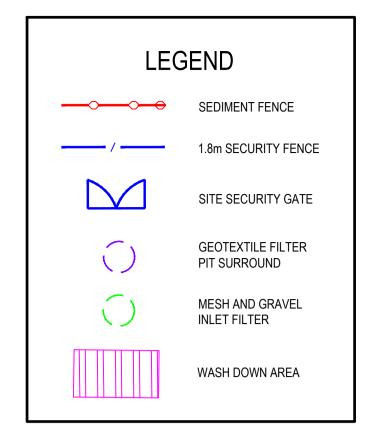
- a. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE ENSURING THAT NOTHING IS NAILED TO THEM
- PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS. ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO

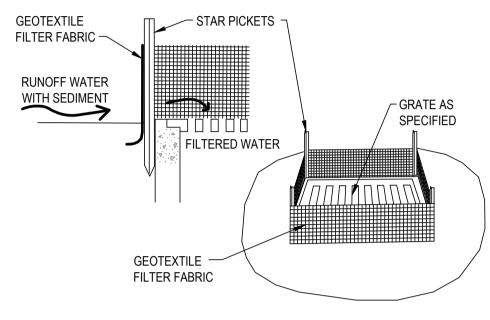
THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE

- BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER I) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER
- ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH (III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

CONSTRUCTION SITE - PROVIDE TEMPORARY SITE ACCESS AND BOARDED PEDESTRIAN ACCESS TO PUBLIC FOOTWAY TO THE SATISFACTION OF COUNCIL RUNOFF FROM PAD DIRECTED TO SEDIMENT TRAP. NEEDLE PUNCHED-GEOTEXTILE FILTER FABRIC 300 MIN APPLY 2 COAT HOT BITUMINOUS-30mm APPROVED SEAL TO ENTIRE ACCESS AREA EXISTING ROADWAY GRANULAR MATERIAL -

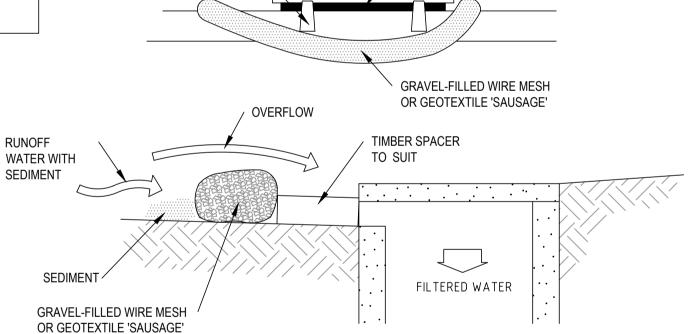
STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA





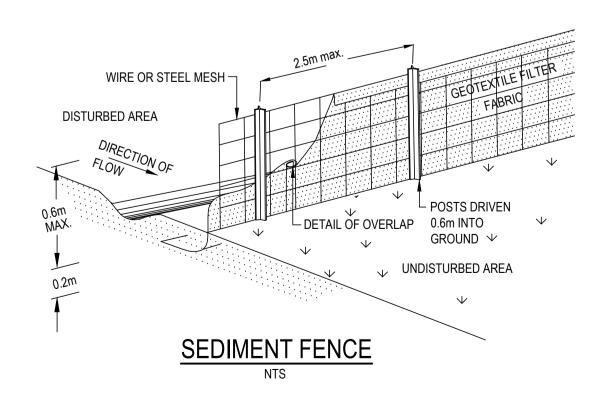
GEOTEXTILE FILTER PIT SURROUND

TIMBER SPACER TO SUIT



KERB-SIDE INLET

MESH AND GRAVEL INLET FILTER



					Building Design and Architectural Drafting
1	ISSUED FOR DA		AE	23.01.2025	
REVISION		DESCRIPTION	ISSUED	DATE	







DRAWN BY DRAWN DATE	AE JAN'25	PROJECT 31	WALWORTH AVENUE, NEWPORT	PROJECT NUMBER	FOR APPROVAL NOT TO BE USED FOR CONSTRUCT	
COORDINATE SYSTEM	MGA-56	DRAWING TITLE SEDIN	SEDIMENT AND EROSION CONTROL PLAN	SHEET SIZE: A1	DRAWING NUMBER	D [\
HEIGHT DATUM	AHD				SW04 REV	REV: 1