DESIGNED BY:



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FOR: INNOVATIVE ECO DESIGNS

JOB NO: SW 055-2503

DATE: 07/03/2025

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	DRAWING NO	DRAWING TITLE
	1	COVERPAGE
	2	GENERAL NOTES
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STORMWATER MANAGEMENT PLAN FOR PROPOSED DWELLING 120C, MARCO AVENUE, PANANIA, NSW



ISSUED FOR: D.A

STORMWATER DRAINAGE GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT AND ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THESE DRAWINGS. REFER TO ARCHITECT'S FINAL DRAWINGS.
- THE BUILDER SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING AND NEW SERVICES, AND SHALL BE RESPONSIBLE FOR DAMAGE TO THE SAME.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SSA CODES. AND THE BY-LAWS AND ORDINANCES OF THE COUNCIL EPA AND WORKCOVER AS 3500 PART 2 & 3
- PREPARE PROGRESSIVELY AND FURNISH TO THE ENGINEER WORK AS EXECUTED DRAWINGS OF THE SAME SIZE AND QUALITY AS THIS DRAWING BUT ACCORDANCE WITH DA CONDITIONS AND CC REQUIREMENTS.
- GIVE SUFFICIENT NOTICE SO THAT INSPECTION MAY BE CARRIED OUT AT THE FOLLOWING STAGES: WORK READY FOR SPECIFIED TESTING, WORK READY TO BE COVERED OR CONCEALED.
- OBTAIN APPROVAL BEFORE INTERRUPTING AN EXISTING SERVICE. KEEP THE NUMBER OF INTERRUPTIONS TO A MINIMUM.
- LAY PIPES TO THE LEVELS SHOWN ON THE DRAWINGS AND IN ANY CASE NOT LESS THAN THE FOLLOWING:
- DIA. 100 MM @ 1.0%, DIA 150 MM @ 1.0%, DIA 225 MM @ 0.5%, DIA 300 MM @ 0.5%
- ENDS OF PIPES AND STUB CONNECTIONS TO BE SEALED WITH O AN APPROVED SEALED DISC.
- MILD STEEL STAR PICKET 1200 mm LONG WITH 300 mm PAINTED GREEN EXTENDED ABOVE GROUND LEVEL TO BE PLACED AT EACH INTERLOTMENT DRAINAGE CONNECTION POINT.
- GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR **PROTECTION**

STORMWATER DRAINAGE NOTES:

- CONTRACTOR IS TO VERIFY THE LEVEL AND LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF EXCAVATION.
- THE CONTRACTOR IS TO VERIFY ANY CONFLICT OF SERVICES IN THE ROAD RESERVE OR SUBJECT PROPERTY AND THE

- ENGINEER IS TO BE NOTIFIED AT THE EARLIEST POSSIBLE CONVENIENCE
- THE CONTRACTOR TO VERIFY THE INVERT LEVELS AT POINT OF CONNECTION TO EXISTING STORMWATER SYSTEM AND REPORT ANY CONFLICT OF LEVELS
- ALL BUILDINGS HAVE RAISED SO THERE IS AT LEAST 150 mm STEP UP INTO THE BUILDING TO ALLOW SUFFICIENT FREEBOARD FOR OVERLAND FLOWS IN THE CASE OF PIPE BLOCKAGE
- DOWNPIPES AND PITS LOCATIONS AND LEVELS MAY BE VARIED TO SUIT THE SITE CONDITIONS, AFTER ENGINEERING APPROVAL
- DOWNPIPES SHOWN ARE INDICATIVE ONLY. ALL ROOF GUTTERING AND DOWNPIPES TO THE CURRENT AUSTRALIAN STANDARDS
- DRAINAGE PIPES TO BE CONCRETE ENCASED WHERE LOCATED UNDER DRIVEWAY OR BUILDING
- ALL PIPES TO BE FULLY HOUSED INTO PIT WALLS AND JOINED / SEAL IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- GRADE ALL PAVED AND GRASSED AREAS AWAY FROM THE BUILDING.
- TOP OF GRATE TO BE POSITIONED TO CATCH ALL UPSTREAM SURFACE FLOWS AS INDICATED BY PLANS.
- ALL PIPES WITHIN THE PROPERTY TO BE MIN. OF 150 DIA, @ 1% MIN. GRADE, UNO.
- ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULHEADS AT ALL JOINTS.
- ALL PITS WITHIN THE PROPERTY AREA TO BE FITTED WITH WELDOK OR APPROVED EQUIVALENT GRATES TO AS3996:
 - O LIGHT DUTY FOR LANDSCAPE AREAS
- HEAVY DUTY WHERE SUBJECTED TO VEHICULAR CROSSING
- ANY PIPES BENEATH RELEVANT LOCAL AUTHORITY ROAD TO BE RUBBER RING JOINTED RCP, UNO.
- GRATES WITH LOCKING BOLTS AND CONTINEOUS HINGE
- ALL COURTYARD AND LANDSCAPE PITS TO BE 400 SQUARE. UNO
- ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED STORMWATER DRAINAGE LINE.
- PROVIDE STEP IRONS TO STORMWATER PITS GREATER THAN 1200 IN DEPTH
- COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS TO BE MIN. 25 MPa

- PROVIDE CONCRETE BENCHING ACROSS PIT TO SUIT INLET AND RAINWATER TANK TO BE CONNECTED TO ALL TOILETS, LAUNDRY **OUTLET PIPES AS DETAILED**
- DIA 100 SUBSOIL DRAINAGE PIPE 3.0 M LONG WRAPPED IN DESIGN NOTES FABRIC SOCK TO BE PLACED ADJACENT TO INLET PIPES ON BOTH SIDES AND 100 MM MIN. ABOVE PIT FLOOR
- SUB SOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS AND EMBANKMENTS WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM, UNO
- SELECTED GRANULAR BACKFILL IS TO BE PLACES AGAINST THE FULL HEIGHT OF THE PIT VERTICAL FACES AND FOR A HORIZOONTAL DISTANCE EQUAL TO ONE-THIRD THE HEIGHT OF THE STRUCTURE.
- MORTAT BASES TO BE SHAPED TO GIVE MIN 20 mm FALL ACROSS PITS
- MORTAR BASES TO BE DISHED TO SUIT ADJOINING PIPE SIZES TO GICE SELF CLEAINSING PITS.
- WHERE PIT DEPTH EXCEEDS STANDARD DEPTH. CONCRETE SHALL BE USED AS PIT BASE, AND ALSO TO GAIN REQUIRED INLET/ OUTLET LEVELS.
- THE INLET PIPE OBVERT IS TO BE HIGHER THAT THE OUTLET PIPE OBVERT
- ullet ALL SWAYLES SHALL HAVE A TURFED INVERT EXTENDING 0.5 m **SEDIMENT BARRIER AROUND PIT:** UP THE SIDE SLOPES
- HAND EXCAVATE STORMWATER PIPES IN VICINITY OF TREE ROOTS
- FOOTHPATH CROSSING LEVELS SHOWN ARE TO BE ADJUSTED TO FINAL COUNCIL'S ISSUED LEVELS
- ALL FENCES MUST BE RAISED 150 mm FROM THE FINISHED GROUND LEVELS SO THAT OVERLAND FLOWS FROM UPSTREAM PROPERTIES ARE NOT RESTRICTED OR BLOCKED.

RAINWATER TANK NOTES:

- ALL PITS IN ROADWAYS ARE TO BE FITTED WITH HEAVY DUTY THE SYSTEM TO BE INSTALLED WITH THE FOLLOWING CONSIDERATIONS:
 - A 'FIRST FLUSH' DIVERSION TO REMOVE ROOF CONTAMINANTS
 - ADEQUATE SCREENING TO PROVIDE MOSQUITO BREEDING AND ENTRY OF ANIMAL OR FLOATING MATTER
 - TANKS TO BE PLUMBED TO TOP-UP FROM THE POTABLE WATER SUPPLY DURING DRY PERIOD WHEN THE TANK IS 80% EMPTY
 - NO DIRECT CROSS-CONNECTION WITH THE POTABLE WATER SUPPLY AND AN AIR GAP MAINTAINED ABOVE THE OVERFLOW IN THE TANK.

AND AT LEAST ONE (1) OUTDOOR TAP.

- ALL EVE GUTTERS AND DOWNPIPES ARE DESIGNED FOR 10 YEAR ARI STORM EVENT.
- BOX GUTTER AND RAINWATER HEADS ARE DESIGNED FOR 100 YEAR ARI STORM EVENT
- INTENSITY FREQUENCY DURATION (IFD) DESIGN CHART OBTAINED FROM BUREAU OF METEOROLOGY HAS BEEN USED TO DESIGN ON SITE DETENTION SYSTEM.

• OSEDIMENT FENCE

- SEDIMENT CONTROL DEVICES ARE TO BE IN PLACE PRIOR TO ANY DEMOLITION OR CONSTRUCTION.
- CONSTRUCT A SILT BARRIER FENCE AS SHOWN ON PLAN AND TO DETAILS AS ABOVE.
- SEDIMENT CONTROL DEVICES ARE TO BE MAINTAINED IN GOOD WORKING ORDER UNTIL COMPLETION OF ALL SITE WORKS OR TO THE SATISFACTION OF THE COUNCIL SUPERVISING OFFICER.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
- SUPPORT GEOTEXTILE WITH MESH TIED TO THE POSTS AT 1000 MM CENTERS.
- DONOT COVER INLET WITH GEOTEXTILE

STANDARD PIPE TRENCH

- SAND FREE FROM ROCK OR OTHER HARD AND SHARP OBJECTS THAT WOULD RETAINED ON 13.2 SEIVE
- CRISHED ROCK OR GRAVEL OF APPROVED GRADING UP TO MAX SIZE OF 14 mm
- THE EXCAVATED MATERIAL MAY BE USED IF IT IS FREE FROM ROCK OR HARD MATTER AND BROKEN UP SO STHAT IT CONTAINS NO SOIL LUMPS HAVING ANY DIMENSION GREATER THAN 75 mm WHICH WOULD PREVENT ADEQUATE COMPACTION OF THE BEDDING
- MATERIAL FOR PIPE SIDE SUPPORT SHOULD BE ADEQUATELY TAMPED IN LAYERS OF NOT MORE THAN 150 mm.
- PIPE OVERLAY MATERIAL SHOULD BE LEVELLED AND TAMPED IN LAYERS TO A MINIMUM HEIGHT OF 150 mm ABOVE THE CROWN OF THE PIPE

ISSUED FOR D.A CS 07/03/2025 Description Date

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B INNOVATIVE ECO DESIGNS

Proposed Development at 120C. MARCO AVENUE, PANANIA, NSW

2 GENERAL NOTES 07/03/2025 Chij Shrestha MIEAust, CPEng, NER ved By: C.L.A Job No:SW 055-2503 as shown (A3) Sheet No: 2 OF 9

EAVES GUTTER AND DOWN PIPE DESIGN TO AS/NZS 3500.3: 2021

DESCRIPTION		UNIT		ROC)F	
			Α	В	С	D
Horizontal catchment area	Ah	sq.m	195	58	27	
Roof Average slope	S	degrees	20	15	15	
Intensity	1	mm/hr	158	158	158	
Is Gutter slope steeper than 1:500 ?			Yes	Yes	Yes	
Down pipe size selected	dia	mm	90	90	90	
Cross referencing From Table 3.5.2 and Fig 3.5.2	Tnum		5.55	1.58	0.74	
Theoretical number of DPs required						
Selected Number of Down pipes	n		6	2	1	
from AS3500 Table 3.4.5.2, C'ment Area Multiplier	f		1.18	1.13	1.13	В
Roof Area allowing for slope	Ac		Ah*f	Ah*f	Ah*f	0
		sq.m	230.1	65.5	30.5	Х
						G
Catchment Area per DP	Α	sq.m	Ac/n	Ac/n	Ac/n	U T
		sq.m	38.4	32.8	30.5	Т
Flow/DP	q	litres/sec	I*A/3600	PA/3600	PA/3600	E R
		litres/sec	1.68	1.44	1.34	
from AS/NZS 3500 fig 3.5.2(C), Gutter Area		sq.mm	6200	5490	5198	
Gutter Area rounded to nearest 100sq.mm		sq.mm	6200	5500	5200	
From AS/NZS 3500 Table 3.5.2,, Down Pipe size		mm	90	85	80	
Down Pipe size selected		mm	90	90	90	
Summary						
This catchment requires :- number of DPs			6	2	1	
Downpipe size		mm	90	90	90	
minimum eaves gutter cross sectional Area		sq.mm	6200	5490	5198	

RECOMMENDED GUTTER = Stramit Quad 125 Unslotted NSW; Area = 6200 mm² (Note: assuming the catchment area of each DP is roughly similar.Length of any gutter draining to a downpipe to be not longer than 12m.(NCC vol2)

ISSUED FOR D.A CS 07/03/2025

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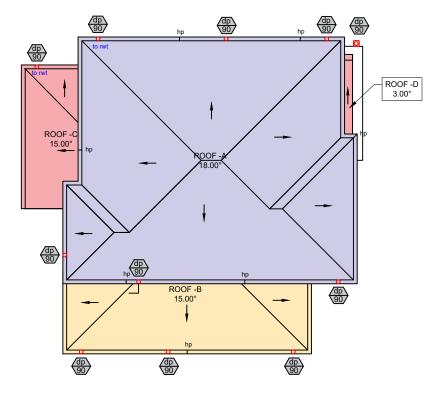
not to scale



Proposed Development at 120C, MARCO AVENUE, PANANIA, NSW

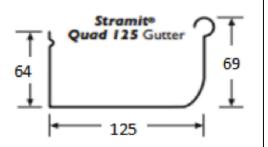
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RECOMMENDED RAINWATER HEAD DETAIL

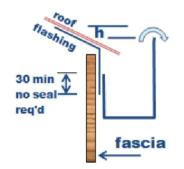


STORMWATER MANAGEMENT PLAN (ROOF)

scale 1:200



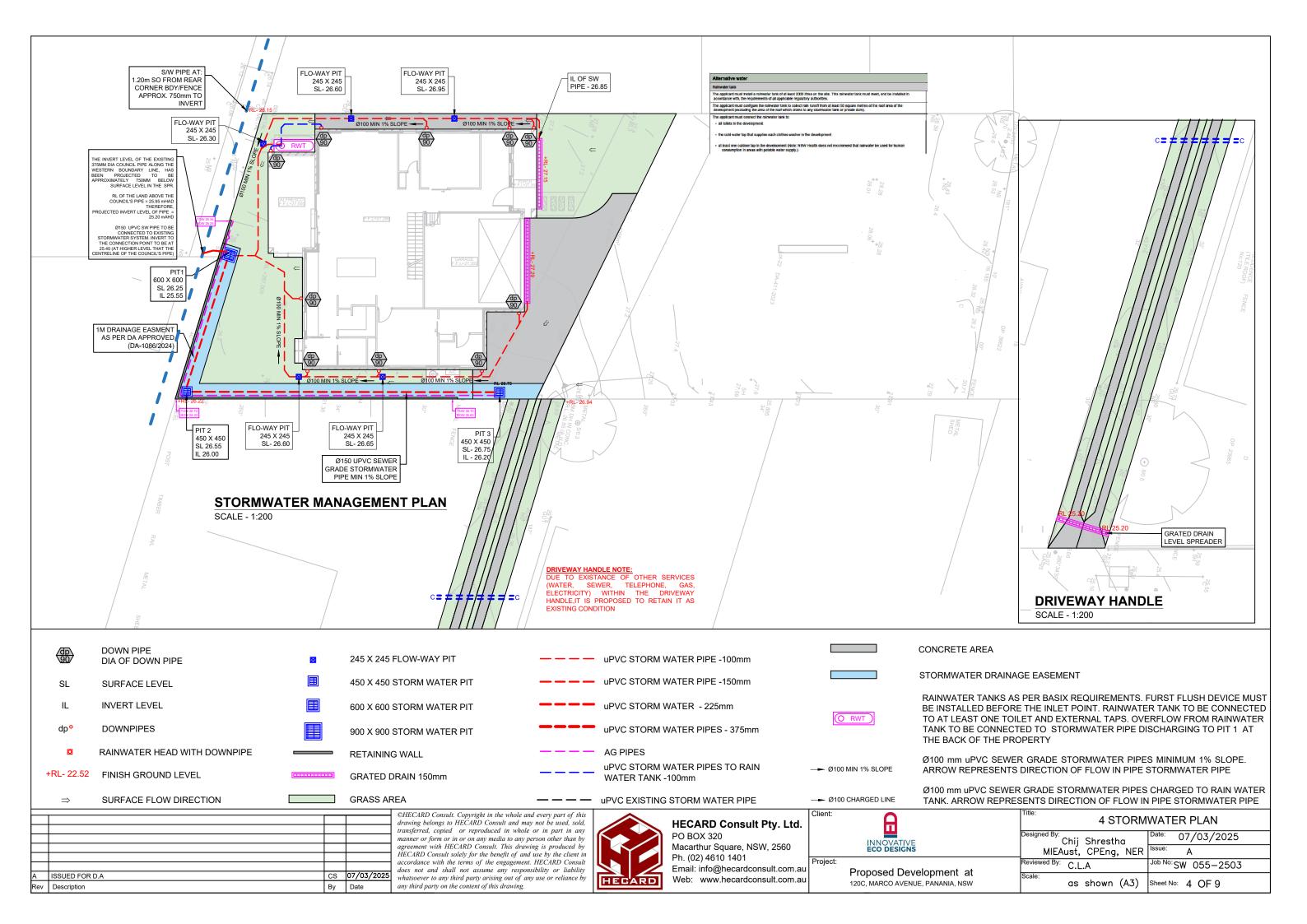
RECOMMENDED GUTTER = Stramit Quad 125 Unslotted NSW; Area = 6200 mm² **EQUIVALENT SHOULD BE USED**

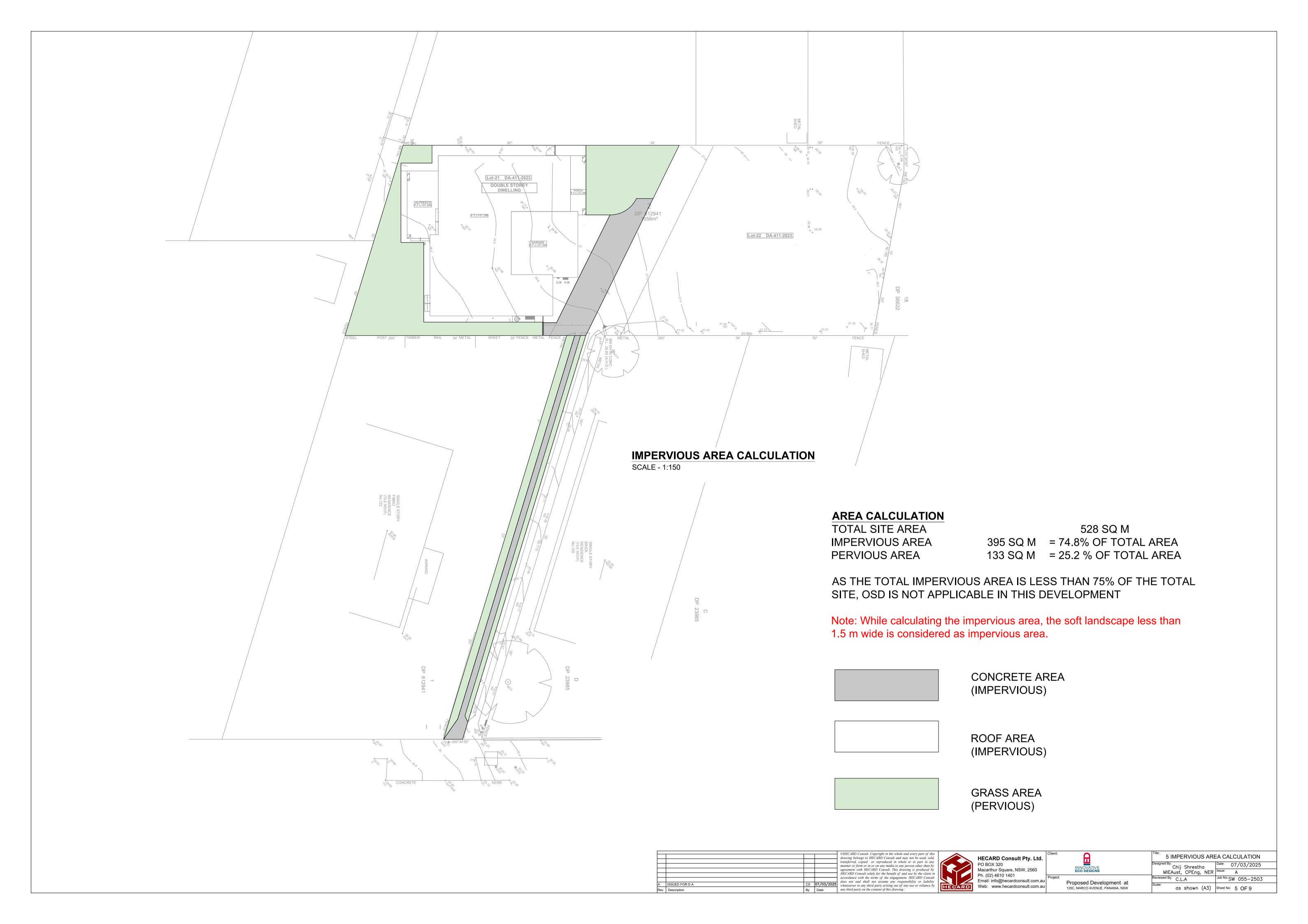


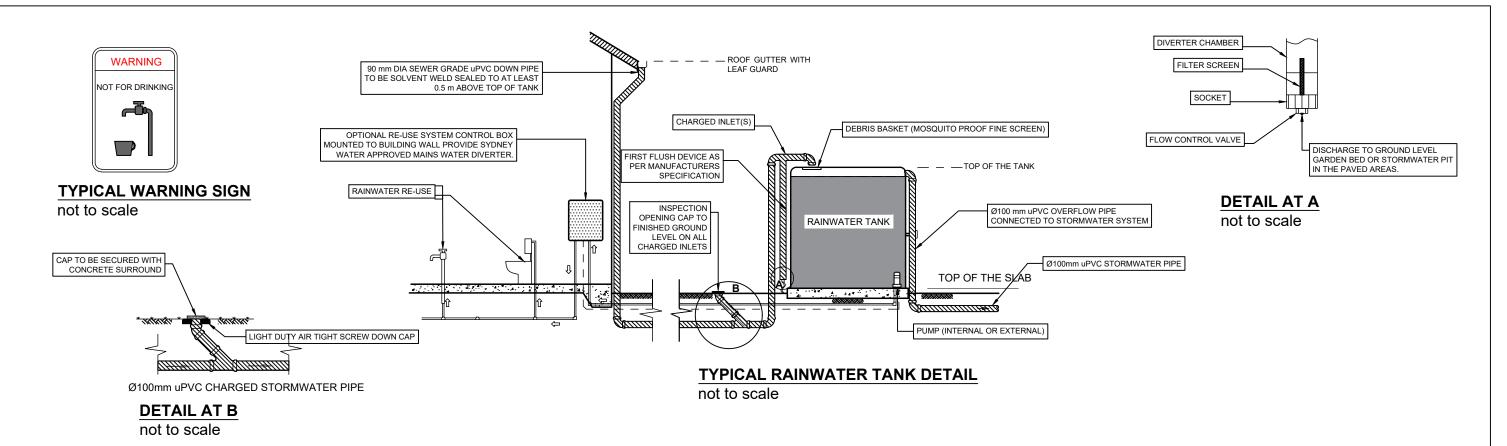
Overflow over the front with flashing

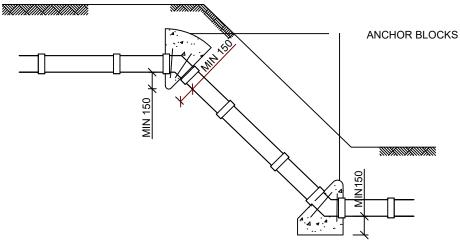
REQUIRED SETDOWN (h) FOR 1% AEP GUTTER OVERFLOW = 25 mm

Title: 3 EAVE GUTTER CALC		
Designed By: Chii	Shrestha	Date: 07/03/2025
	CPEng, NER	Issue: A
Reviewed By: C.L	A	Job No:SW 055-2503
Scale:	shown (A3)	Sheet No: 3 OF 9





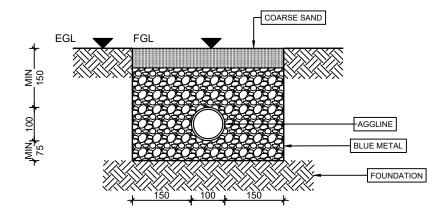




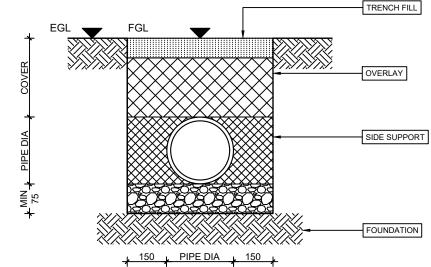
TYPICAL ANCHOR BLOCK DETAIL FOR **SLOPE GREATER THAN 1:5** not to scale

WHERE THE GRADIENT OF A SITE OF STORMWATER DRAIN EXCEEDS 1:5, ANCHOR BLOCKS SHALL BE INSTALLED:

- a) AT THE BEND OR JUNCTION AT THE TOP AND BOTTOM OF THE STORMWATER DRAIN
- AT INTERVAL NOT EXCEEDING 3.0 m
- THICKNESS OF ANCHOR BLOCKS SHOULD NOT BE LESS THAN 150
- TWO STEEL REINFORCEMENT BAR BARS NOT LESS THAN 10 mm DIA BENT TO A RADIUS ABOUT 200 mm SHALL BE PROVIDED TO ANCHOT BLOCKS
- e) ANCHOR BLOCKS SHOULD NOT COVER ANY FLEXIBLE JOINTS



AGGLINE TRENCH DETAIL not to scale



STANDARD PIPE TRENCH DETAIL not to scale

07/03/2025

Job No: SW 055-2503

Α	ISSUED FOR D.A	CS	07/03/202
Rev	Description	Ву	Date

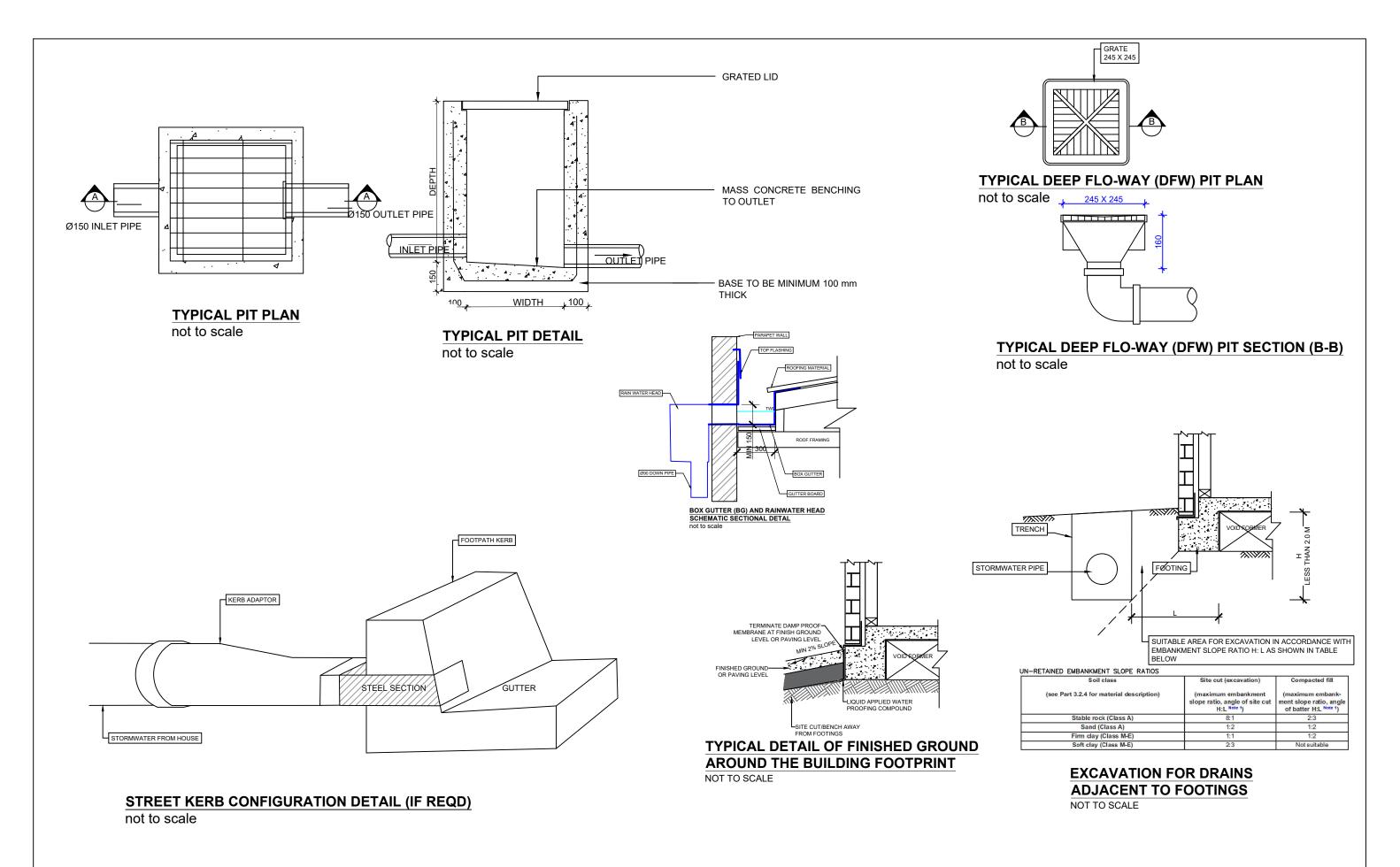
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Client:	А	6 RAIN WATER TANK DETAIL				
	INNOVATIVE	Designed By: Chij Shrestha Date: 07/03/202				
	ECO DESIGNS	MIEAust, CPEng, NER Issue: A				
Project:	Proposed Development at	Reviewed By: C.L.A Job No: SW 055-250				
	120C, MARCO AVENUE, PANANIA, NSW	Scale: as shown (A3) Sheet No: 6 OF 9				



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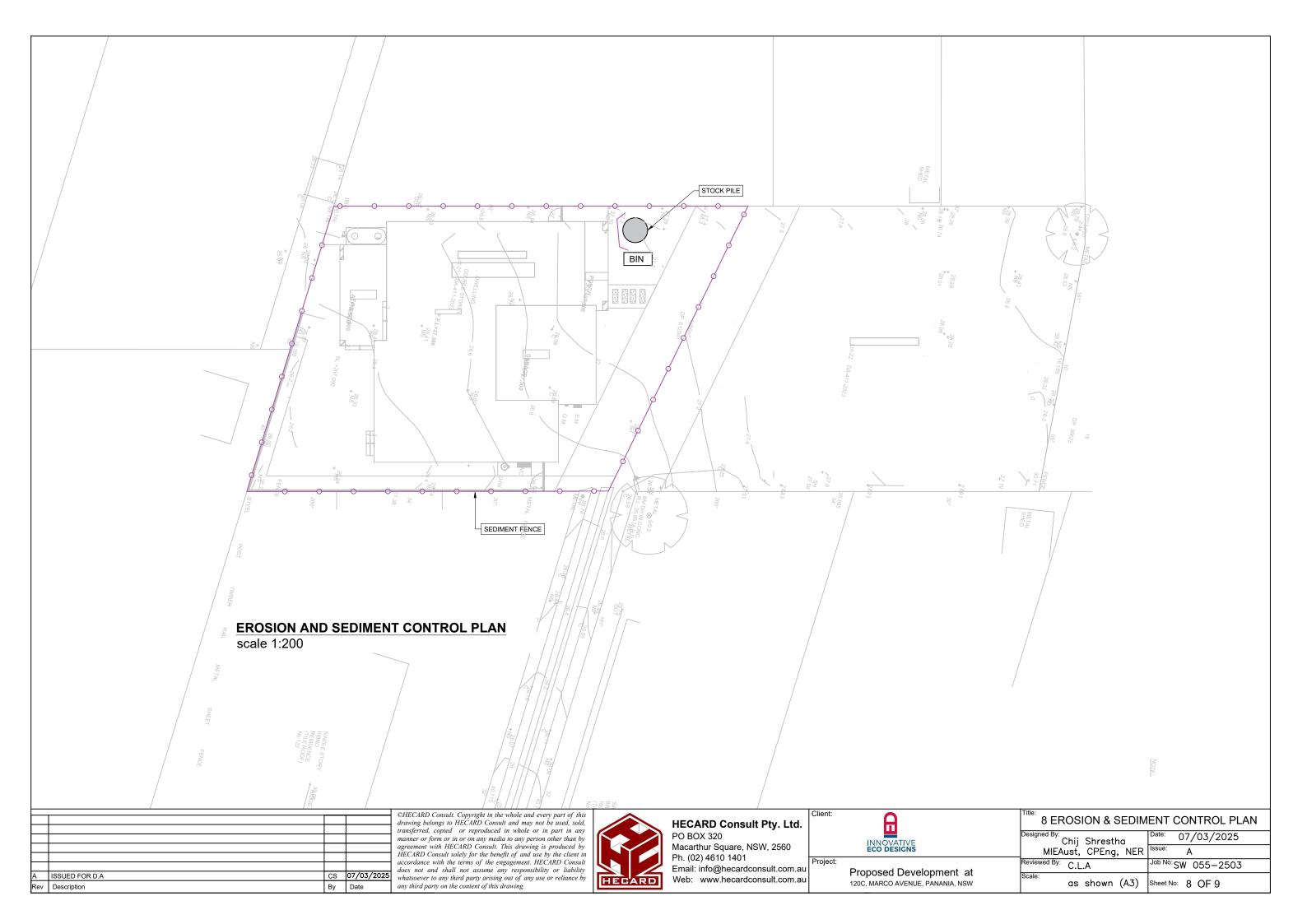
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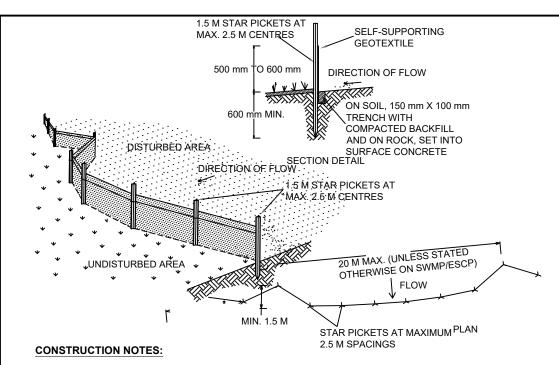
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Client:	A
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ect:	
	Proposed Development at
	120C, MARCO AVENUE, PANANIA, NSW

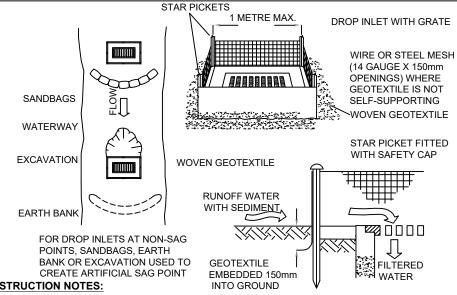
	ONNECTION DETAIL
Designed By: Chij Shrestha	Date: 07/03/2025
MILAUST, CPENG, NER	Issue: A
Reviewed By: C.L.A	Job No: SW 055-2503
Scale: as shown (A3)	Sheet No: 7 OF 9





- 1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALI RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORMEVENT **USUALLY THE 10 YEAR EVENT**
- 2. CUT A 150 MM DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED
- 3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS
- 4. FIX SELF SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOF SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY
- JOIN SECTIONS OF FABRIC AT THE SUPPORT POST WITH A 150 MM OPERLAP
- BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE SD 6-8

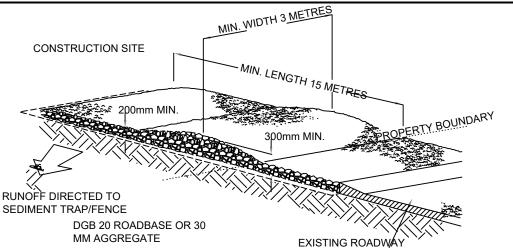


CONSTRUCTION NOTES:

- 1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES
- 2. FOLLOW THE INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METER CENTRES
- 3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING
- 4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL

GEOTEXTILE INLET FILTER

SD 6-12



GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N

- 1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE
- COVER THE AREA WITH NEEDLE PUNCHED GEOTEXTILE
- CONSTRUCT A 200 MM THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30 MM AGGREGATE
- 4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE
- 5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS. CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE

STABILISED SITE ACCESS

SD 6-14

Α	ISSUED FOR D.A	CS	07/03/202
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Proposed Development at 120C, MARCO AVENUE, PANANIA, NSW

	ENT CONTROL DETAIL
Designed By: Chij Shrestha MIEAust, CPEng, NER	Date: 07/03/2025
	Issue: A
Reviewed By: C.L.A	Job No: SW 055-2503
Scale: as shown (A3)	Sheet No: 9 OF 9