PROPOSED RESIDENTIAL DEVELOPMENT TYPE: ALTERATIONS AND ADDITIONS

ADDRESS: TITLE: DRAWING SERIES:

No. 26 NORTH AVALON ROAD, AVALON BEACH LOT 19/DP 8394 STORMWATER MANAGEMENT PLAN

GENERAL NOTES

- GN1 ALL DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
 GN2 THE CONTRACTOR SHALL LOCATE AND DETERMINE LEVELS OF ALL EXISTING SERVICES PRIOR TO COMMENCING EXCAVATION WORK. ALL SERVICES SHOWN ON THIS DRAWING ARE INDICATIVE AND FOR GUIDANCE ONLY.
- GN3 THIS DRAWING SERIES IS TO BE READ IN CONCURRENCE WITH RELEVANT DRAWINGS SERIES FROM OTHER CONSULTANTS, COUNCIL OR RELEVANT SPECIFICATIONS. WHERE DISCREPANCIES ARE DETECTED THE DESIGN ENGINEER IS TO BE CONTACTED IMMEDIATELY FOR VALIDATION/ RECTIFICATION.
- GN4 BUILDER AND CONTRACTORS IS TO ENSURE THAT ALL COUNCIL DEVELOPMENT CONSENT CONDITIONS, CONSTRUCTION CERTIFICATE AND BASIX REQUIREMENTS ARE MET.
- GN5 A STRUCTURAL ENGINEER IS TO DESIGN AND DETAIL SUBSOIL DRAINAGE. UNLESS APPROVED BY OUR OFFICE, SUBSOIL DRAINAGE IS NOT TO CONNECT INTO THE STORMWATER SYSTEM DISPLAYED WITHIN THIS DRAWING SERIES.
- GN6 PLANS ISSUED FOR DEVELOPMENT APPLICATION, SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE.
- GN7 PLANS ISSUED FOR DEVELOPMENT APPLICATION PURPOSES, SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.

RAINWATER RE-USE NOTES

- RN1 THE RAINWATER TANK IS TO BE INSTALLED AND EMPLOYED AS PER BASIX, SYDNEY WATER, COUNCIL AND NSW HEALTH REQUIREMENTS FOR NON DRINKING USE ONLY.
- RN2 ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED PLUMBERS IN ACCORDANCE WITH AS/NZS3500.1 NATIONAL PLUMBING AND DRAINAGE CODE.
- RN3 BUILDER AND PLUMBER TO ENSURE THE INSTALLATION OF THE RAINWATER TANK SYSTEM IS IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK (HB 230- 2008).
- RN4 DO NOT DIRECT CONNECT TOWN WATER SUPPLY AND THE RAIN WATER SUPPLY.
- RN5 THE RAINWATER TANK AND EVERY RAINWATER SUPPLY OUTLET POINT ARE TO BE LABELLED (RAINWATER) ON A METAL SIGN IN ACCORDANCE WITH AS1319.
- RN6 SCREENED DOWNPIPE RAINWATER HEAD OR OTHER SUITABLE LEAF AND DEBRIS DEVICE TO BE INSTALLED ON EACH DOWNPIPE. SCREEN MESH TO BE 4-6mm AND DESIGNED TO BE SELF-CLEANING.
- RN7 ROOF RUN-OFF ONLY IS BE DIRECTED TO THE RAINWATER TANK . SURFACE WATER SYSTEMS/INLETS ARE NOT TO BE CONNECTED.
- RN8 ALL INLETS AND OUTLETS TO THE RAINWATER TANK ARE TO HAVE SUITABLE DEVICES TO PREVENT MOSQUITO AND VERMIN ENTRY TO THE SATISFACTION OF THE REGULATORY AUTHORITY.
- RN9 PROVIDE APPROPRIATE FLOAT VALVES TO CONTROL TOWN WATER SUPPLY INLET TO TANK IN ORDER TO ACHIEVE THE TOP-UP INDICATED ON THE TYPICAL DETAIL
- RN10 PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT BY A LICENSED ELECTRICIAN

BEFORE YOU DIG AUSTRALIA



THE MOST UP TO DATE BEFORE YOU DIG AUSTRALIA (BYDA) PLANS MUST BE KEPT ON-SITE AT ALL TIMES. ANY PERSON ABOUT TO DIG OR EXCAVATE MUST READ BYDA PLANS PRIOR TO THE COMMENCEMENT OF WORK.

Revision Drawn Date

STORMWATER NOTES

	STORIVIVA
SN1	ALL STORMWATER DRAINAGE PIPE
	INSTALLED IN ACCORDANCE WITH
	CODE OF AUSTRALIA, MANUFACTU
	CATCHMENT AUTHORITY RECOMM
CN 12	APPLICABLE.
SN2	ALL WORK SHALL BE CARRIED OUT
	REQUIREMENTS OF THE LOCAL GO
	SPECIFICATIONS. ENSURE INSPECT
	DRAINAGE LINES AT REQUIRED LO
SN3	STORMWATER PIPES UP TO DN150
	UNLESS OTHERWISE NOTED.
SN4	WHERE NECESSARY PUBLIC UTILIT
	AMENDED AT THE CLIENT'S EXPEN
SN5	ALL NEW WORK MAKE SMOOTH TR
	EXISTING WORK.
SN6	LOCAL GOVERNMENT AREAS TREE
	TO BE ABIDED BY. A PERMIT IS REC
SN7	ALL PITS TO BE STREAMLINED AND
5117	GOVERNMENTS AREAS SPECIFICAT
SN8	STEP IRONS ARE TO BE PROVIDED
SINO	ACCORDANCE WITH AS/NZS3500 A
CNIC	AND POLICES.
SN9	DOWNPIPES, RAINWATER LINES AN
	UNLESS OTHERWISE NOTED.
SN10	ALL GRATE AND INVERT LEVELS PR
	FROM SURVEY AND REDUCED TO A
	INSTALLATION AND BENCHING TH
	TO MEET THE DESIGN INTENT. IF E
SN11	ALL SUSPENDED DRAINAGE PIPES
	AS/NZ 2032.
SN12	LOW POINTS OF CHARGED DRAINA
	FLUSHING AND MAINTENANCE.
SN13	THE NUMBER AND LOCATION OF D
	SHOWN INDICATIVELY AND ARE TO
	PRIOR TO CONSTRUCTION. ROOF [
	INSTALLED IN ACCORDANCE WITH
SN14	
51114	CASES WHERE TRAPPED AREAS EXIS
	CAPACITY SHALL BE REQUIRED TO
	DISCHARGE POINT. A PUMP-OUT S
	AREA IS BELOW THE NATURAL SUR
	ENGINEER MUST BE CONTACTED F
	CONSTRUCTION.
SN15	
	THE SITE, GROUND SURFACE LEVE
	RE-GRADED SUCH THAT THE FIRST
	FROM THE BUILDING AS PER THE N
SN16	BALCONY DRAINAGE AND WATERP
	ACCORDANCE WITH RELEVANT AU
	CONSTRUCTION CODE, DESIGN IS



Description

Checked Approved

- ES AND ASSOCIATED DEVICES, ARE TO BE H THE RELEVANT STANDARDS, THE BUILDING URER'S RECOMMENDATIONS, SYDNEY MENDED PRACTICE, AND LOCAL COUNCIL, AS
- T IN ACCORDANCE AS/NZS3500 AND THE OVERNMENT AREAS POLICIES, CODES AND TION OPENINGS ARE INSTALLED TO OCATIONS.
-) SHALL BE LAID AT A MINIMUM 1% GRADE
- TY SERVICES ARE TO BE ALTERED AND NSE.
- FRANSITIONS AND CONNECTIONS WITH
- E PRESERVATION AND MANAGEMENT ORDERS QUIRED BEFORE TREE/S CAN BE REMOVED . D BENCHED IN ACCORDANCE WITH LOCAL TIONS.
- FOR ALL PITS OVER 1.2m DEEP IN AND LOCAL GOVERNMENT AREAS CODES
- ND STORMWATER LINES TO BE FULLY SEALED
- ROVIDED ON THIS DRAWING ARE EXTRACTED AHD. FOLLOWING EARTHWORKS, PIT THE LEVELS ARE TO BE VERIFIED OR ADJUSTED EVER IN DOUBT CONTACT DESIGN ENGINEER. S ARE TO STRAPPED IN ACCORDANCE WITH
- AGE SYSTEMS REQUIRE DEVICES FOR
- DOWNPIPES, ON THIS DRAWING SERIES, ARE TO BE CONFIRMED ON-SITE BY BUILDER DRAINAGE, BY OTHERS, AND TO BE H AS/NZs 3500 SERIES.
- ANY TRAPPED SURFACE AREAS. IN SUCH IST, A DRAINAGE NETWORK WITH ADEQUATE O DRAIN STORMWATER TO AN APPROVED SYSTEM MAY BE REQUIRED IF THE TRAPPED RFACE LEVEL. IN EACH INSTANCE, THE DESIGN FOR DESIGN DETAILS (AS REQUIRED) BEFORE
- A BUILDING, INCLUDING LAND OUTSIDE OF ELS ADJACENT TO THE BUILDING ARE TO BE T METER HAS A MINIMUM 50MM FALL AWAY NATIONAL CONSTRUCTION CODE. RPROOFING TO BE INSTALLED IN STRICT USTRALIAN STANDARD AND NATIONAL S TO BE BY OTHERS.

	DRAWING LEGEND
	INDICATES INDICATIVE EXTENT OF EXISTING DWELLING
	INDICATES INDICATIVE EXTENT OF PROPOSED EXTENSION
	INDICATES INDICATIVE EXTENT OF PROPOSED DRIVEWAY
	INDICATES ON-SITE DETENTION TANK
	INDICATES RAINWATER TANK
	INDICATES ABSORPTION SYSTEM
O DP	INDICATES PROPOSED DOWNPIPE/RISER
DPe.DP	INDICATES EXISTING DOWNPIPE/RISER
○ E.DF ○ I.O.	INDICATES INSPECTION OPENING WITH SCREW DOWN LID
RWO	INDICATES RAINWATER OUTLET
° PBO	INDICATES PLANTER BOX OUTLET
0	INDICATES EAVE OPENING
С	INDICATES PIPE DROPPER
Ο	BOX GUTTER SUMP/RAINWATER HEAD SUMP
← EG1 →	INDICATES EAVE TYPE AND DIRECTION
	INDICATES DOWNPIPE SPREADER
	INDICATES GRATED BOX DRAIN WITH OUTLET
	INDICATES DRAINAGE PIT GRATED OPENING
	INDICATES DRAINAGE PIT SEALED COVER
- sw - ILXX.XXX	INDICATES STORMWATER PIPE INVERT LEVELS. UNLESS OTHERWISE NOTED PIT BASE IS TO EQUAL PIPE BASE
	INDICATES DN100 RAINWATER PIPE.
SW	INDICATES DN100 STORMWATER PIPE.
e.SW	INDICATES EXISTING STORMWATER PIPE.
 s.SW 	INDICATES DN100 SEWER GRADE CHARGED STORMWATER PIPE.
w.RM	INDICATES INDICITIVE LOCATION OF RISING MAIN BY OTHERS.
DN150 RW	INDICATES SIZE AND DIRECTION OF RAINWATER PIPE GREATER THAN DN100.
DN150 SW	INDICATES SIZE AND DIRECTION OF STORMWATER PIPE GREATER THAN DN100.
DN150 e.SW	INDICATES SIZE AND DIRECTION OF EXISTING STORMWATER PIPE GREATER THAN DN100.
DN150 s.SW	INDICATES SIZE AND DIRECTION OF SEWER GRADE CHARGED STORMWATER PIPE.
	INDICATES SITE BOUNDARY
	INDICATES EASEMENT WITHIN SITE, REFER TO DETAILED SURVEY
	INDICATES INDICATIVE ROOF OUTLINE
PAGE S??>	PIPE LINE CONTINUES TO REFERENCED PAGE
	PENETRATION DIRECTION
DP-RW	SERVICE TYPE
100	SIZE
-	PENETRATION DIRECTION





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DRAWINGS SERIES TO BE PRINTED IN COLOUR

DEVELOPMENT APPLICATION ISSUE NOT FOR CONSTRUCTION

SITE SUMMARY OF COUNCIL SPECIFICATION

- 1. COUNCIL: NORTHERN BEACHES COUNCIL
- 2. RELEVANT DOCUMENTS:
- 2.1. NORTHERN BEACHES COUNCIL WATER MANAGEMENT FOR DEVELOPMENT POLICY (FEB 2021)
- 2.2. AS/NZS 3500.3
- 3. ENGINEERING COMMENTS:
 - STORMWATER DISCHARGE
 THE PROPOSED SITE DRAINS BY GRAVITY TO AN EXISTING KERB OUTLET AT NORTH AVALON ROAD.
 - ON- SITE DETENTION (OSD) THE DEVELOPMENT IS LOCATED IN A LOW RISK FLOOD PRECINCT. IN THIS REGARD WE ARE OF THE VIEW THAT OSD IS NOT APPLICABLE REFER TO S7 FOR COUNCIL CHECKLIST.
 - WATER SENSITIVE URBAN DESIGN (WSUD) THE DEVELOPMENT IS A SINGLE LOT RESIDENTIAL. WSUD IS BELIEVED NOT TO BE REQUIRED IN ACCORDANCE WITH NORTHERN BEACHES DCP SECTION 1.0 TABLE 1.

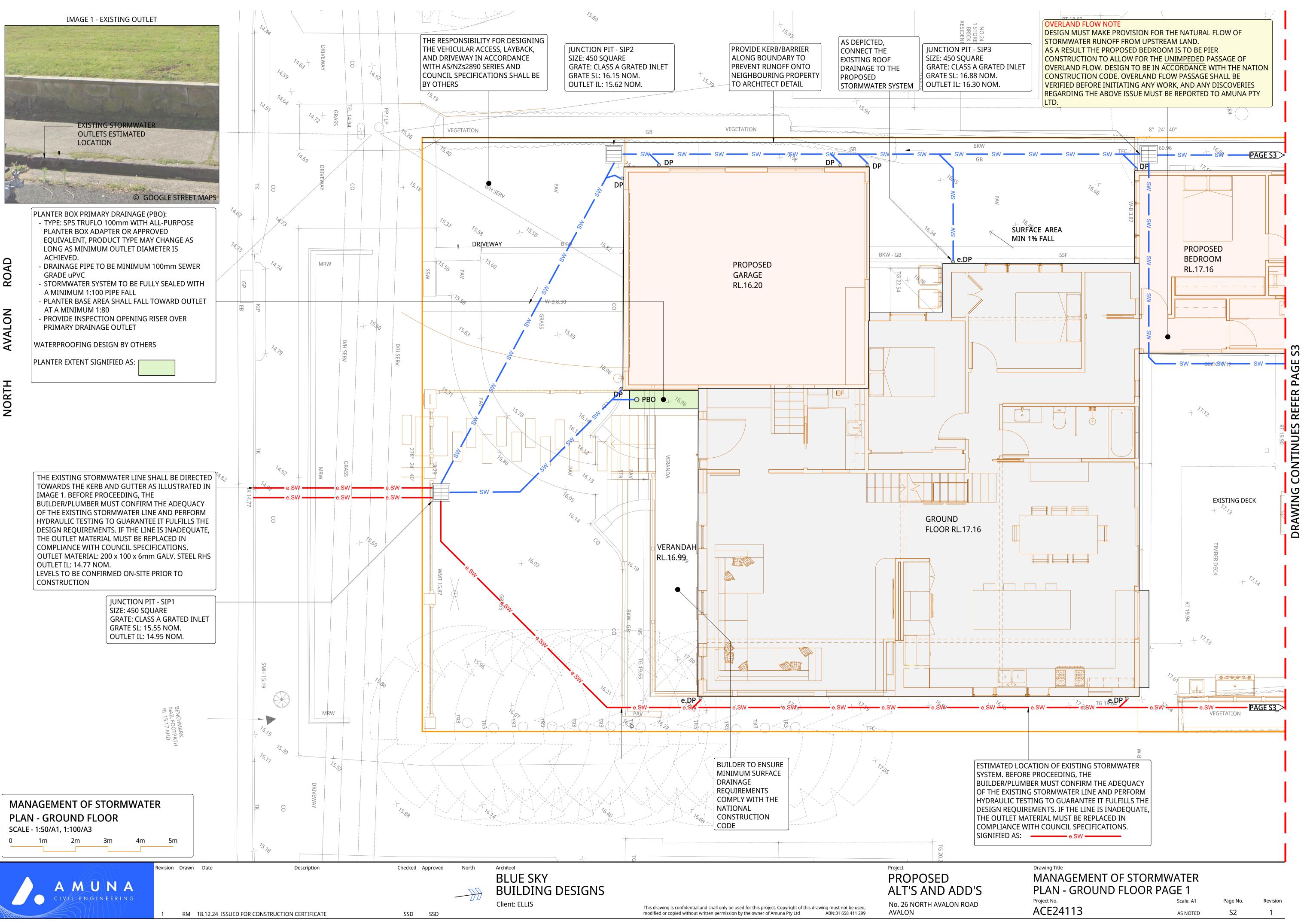
THIS DRAWING SERIES HAS BEEN PREPARED IN GENERAL ACCORDANCE WITH THE ABOVE DOCUMENTS.

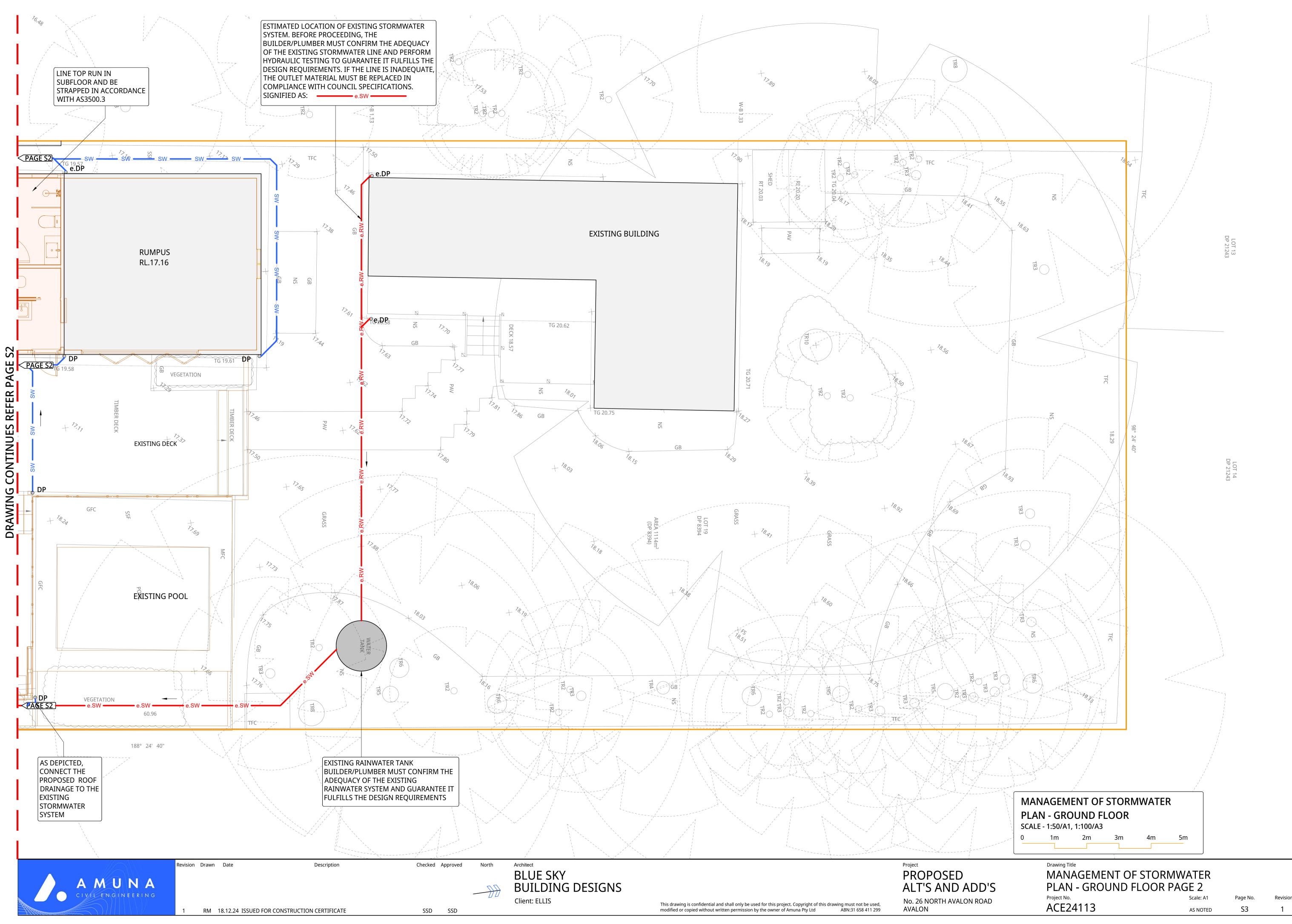
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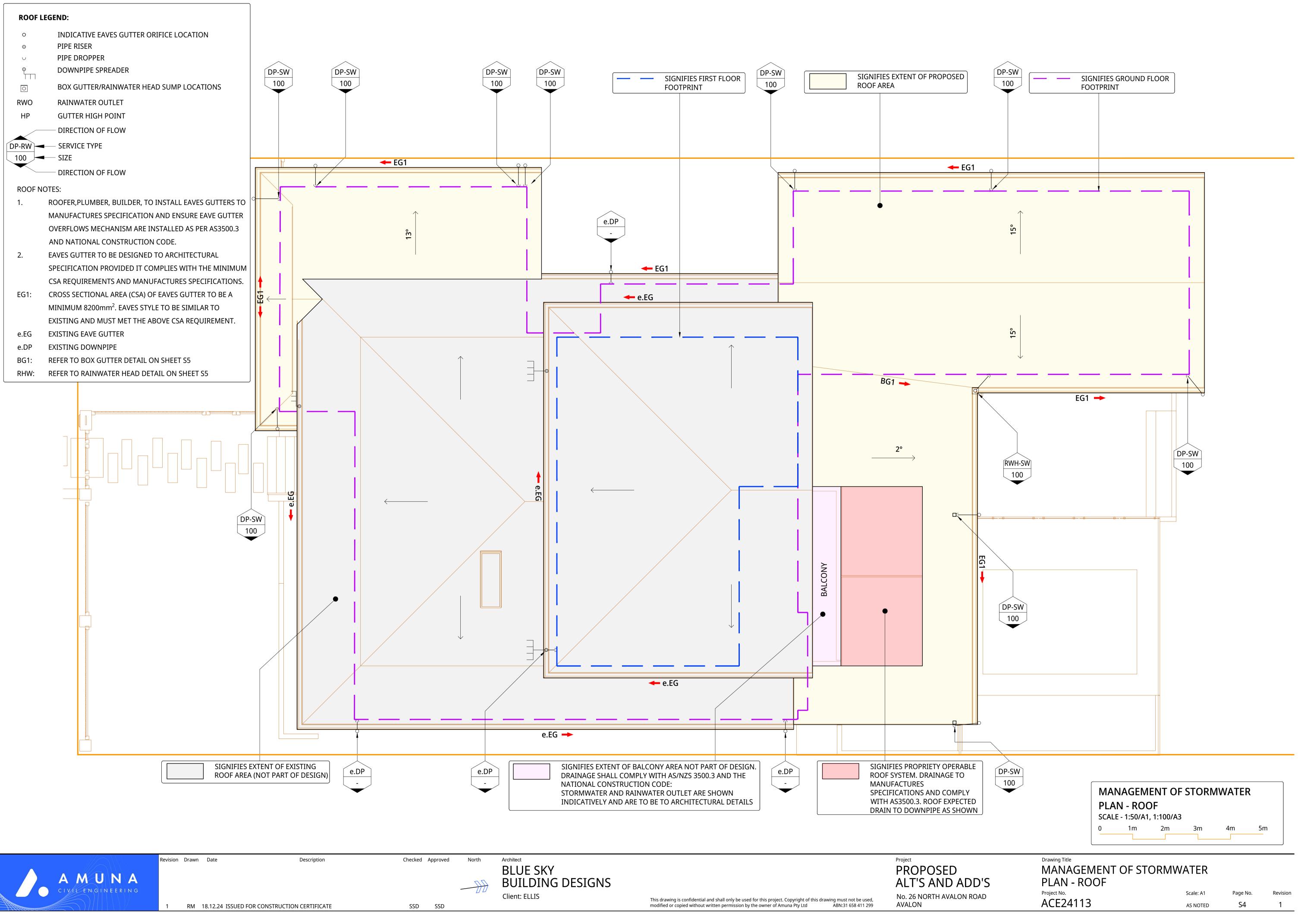
TITLE PAGE & NOTES	PAGE S1
MANAGEMENT OF STORMWATER PLAN - GROUND FLOOR PAGE 1	PAGE S2
MANAGEMENT OF STORMWATER PLAN - GROUND FLOOR PAGE 2	PAGE S3
MANAGEMENT OF STORMWATER PLAN - ROOF	PAGE S4
MANAGEMENT OF STORMWATER DETAILS	PAGE S5
MANAGEMENT OF STORMWATER CALCULATIONS	PAGE S6
MANAGEMENT OF STORMWATER CHECKLIST	PAGE S7
EROSION AND SEDIMENT CONTROL PLAN	PAGE ES1
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	PAGE ES2

Drawing Title TITLE PAGE & NOTES

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ACE24113	AS NOTED	S1	1











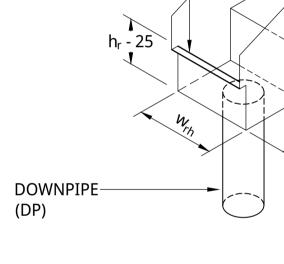






1 RM 18.12.24 ISSUED FOR CONSTRUCTION CERTIFICATE

SSD SSD



OVERFLOW WEIR

TYPICAL BOX GUTTER TO RAINWATER HEAD DETAIL - RWH1

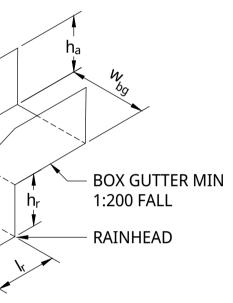


TABLE 1 - RAINWATER HEAD DESIGN - RWH

DESIGN STORMEVENT	-	1%	AEP
ROOF SERVICE AREA (MAX.)	-	30	m ²
SLOPE AT SOLE OF BOX GUTTER	-	1:200	-
DOWNPIPE DIAMETER	DP	100	mm
BOX GUTTER WIDTH (MIN.)	W _{bg}	300	mm
BOX GUTTER DEPTH (MIN.)	h _a	100	mm
RAINWATER HEAD DEPTH (MIN.)	h _r	125	mm
RAINWATER HEAD LENGTH (MIN.)	l _r	140	mm
RAINWATER HEAD WIDTH (MIN.)	w _{rh}	300	mm

SPECIFIC NOTES FOR RAINWATER HEAD:

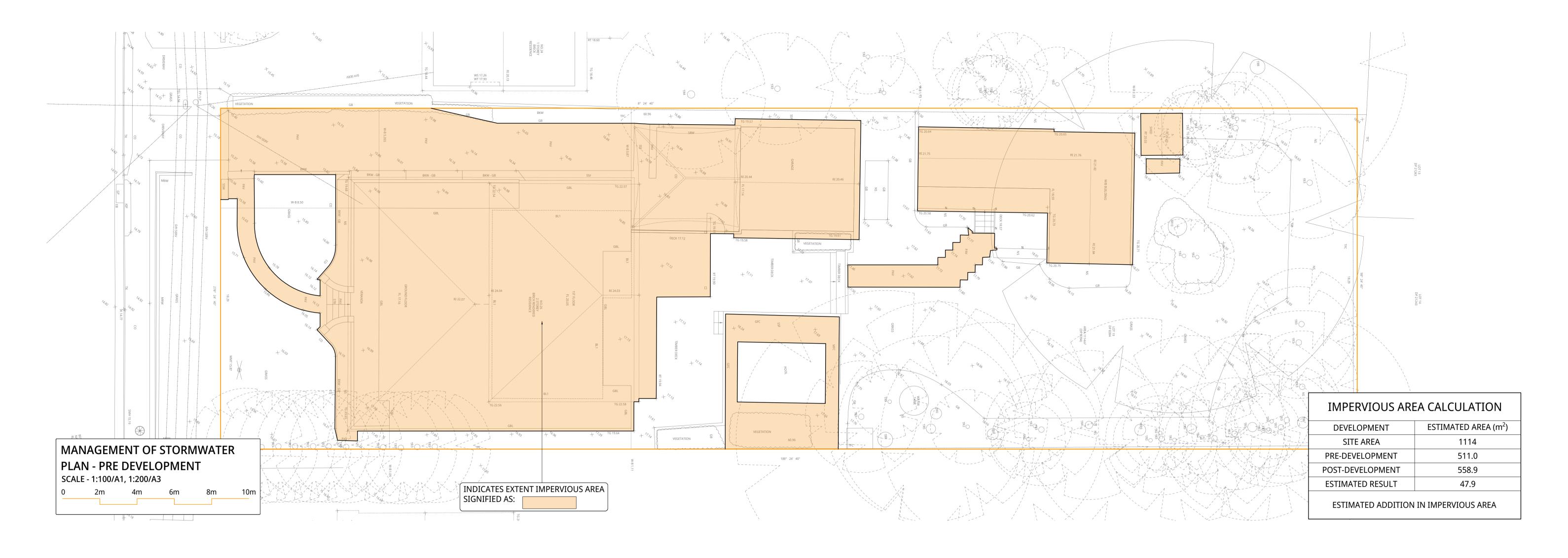
1. RAINWATER HEAD OVERFLOW WEIR TO BE SET 30mm BELOW SOLE OF BOX GUTTER.

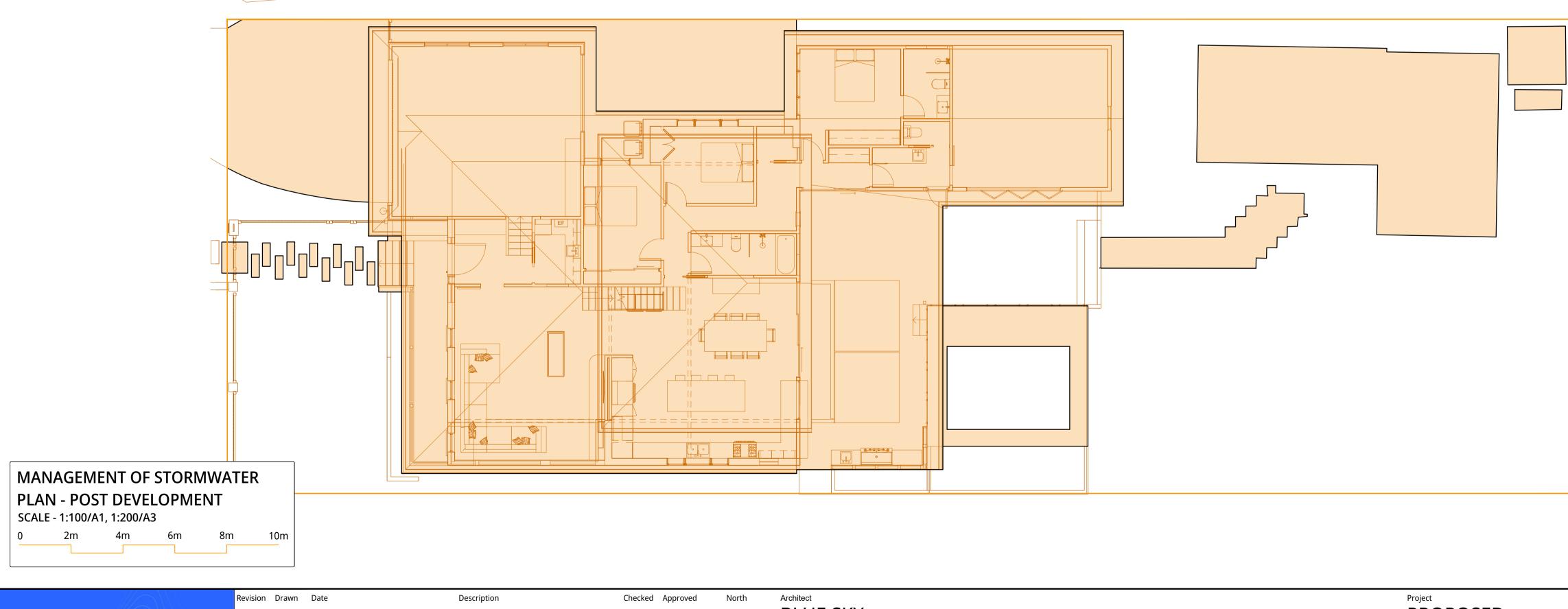




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MANAGEMENT OF STORM	NATER		
DETAILS			
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A M U N A CIVIL ENGINEERING

SSD SSD





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Drawing Title MANAGEMENT OF STORMWATER						
CALCULATIONS						
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ACE24113	AS NOTED	S6	1			

Part 1 Locatio	n of the Property	REF	ER TO TITLE		
House Humber			Legal Property Descrip	tion	
Street			Lot		
Suburb			Section		
Postcode			DP		
Part 2 Site Det	ails				
		1	Total Site Area		1114.8r
Pre-Developmen	t Impervious Area	511m ²	Post-Development Imper Area	rvious	558.9m
	development located with cil's Local Environmental		ished Flood Prone Land a	as	Yes 🔳 No
to part 5 of this c		. ,	not required and please p	proceed	
	ern Beaches Storm f Northern Beaches Cour		jions Management for Develop	mericpoli	icy)
			please proceed to the pa		
	levelopment located with		· · ·		
		~ *			
Management Spo /ersion 2 26 F	ecification.	nagement for	please refer to Council's	Warriew 021/1543(68 Page 90
Management Spe Version 2 26 F Part 4.3 Norther Part 4.3.1 Storm	ecification. February 2021 Water Ma n Beaches Stormwater	nagement for	please refer to Council's	021/15436	68 Page 90
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Description

Revision Drawn Date

BLUE SKY

Client: ELLIS

BUILDING DESIGNS



perty	REF	ER TO TITLE			
		Legal Property Description	on		
		Lot			
		Section			
		DP			
Regions ches or	1	Total Site Area		1114	.8m ²
rea	511m ²	Post-Development Impervi Area	ious	558.9	9m ²
ocated with ronmental l		lished Flood Prone Land as		Yes 🗖	No 🗆
ntion syste	m (OSD) is	not required and please pro	oceed		
of this chec	klist.				
s Stormv ches Coun		gions Management for Developm	oni poli	cy)	
cated withi	n Region 1	, please proceed to the part	4.1 of t	his check	ist
cated withi	r Region 2	, please proceed to the part	4.2 of t	his check	ist
cated withi	n Region 3	, please proceed to the part	4.3 of t	his check	ist
cated within	n Region 4	, please refer to Council's W	/arriewo	ood Valley	Water

Is the additional impervious area of the development more than 50 m² Yes 🗆 No 🗆 cumulative basis since February 1996? If yes, OSD is required and please refer to section 9.3.1 of Council's Water Management for Development If no, OSD is not required and please proceed to the part 5 of this checklist Part 4.2 Northern Beaches Stormwater Region 2 Part 4.2.1 Description of Work Residential flat building, commercial, industrial, multiple occupancy development and subdivisions resulting in the creation of three lots or more, will require OSD in all case. Please provide a design in accordance with the section 9.3.2 of Council's Water Management for Development Purcy. Any single residential building development, please proceed to part 4.2.2 of this chocklist. Part 4.2.2 Exemption Is the site area less than 450m²? Yes 🗆 No 🗆 Does the site of the development drain directly to the ocean without the need Yes 🗆 No 🗆 to pass through a drainage control structure such as pipe, brage, culvert, kerb and gutter or natural drainage system? Is it an alternation and addition development to the existing dwellings? Yes 🗆 No 🗆 If yes to any of the above questions, OSD is not required. If no to all the above questions, proceed to part 4.2.3 Part 4.2.3 Determination of OSP Requirements Calculation a) Sile area m² x 0.40 (40%) = . m² Post- development impervious area = ... OSD will not be required when (a) is greater than (b) Is OSD required for this development (tick one only) Yes D No D

If yes, provide a design in accordance with the section 9.3.2 of Council's Water

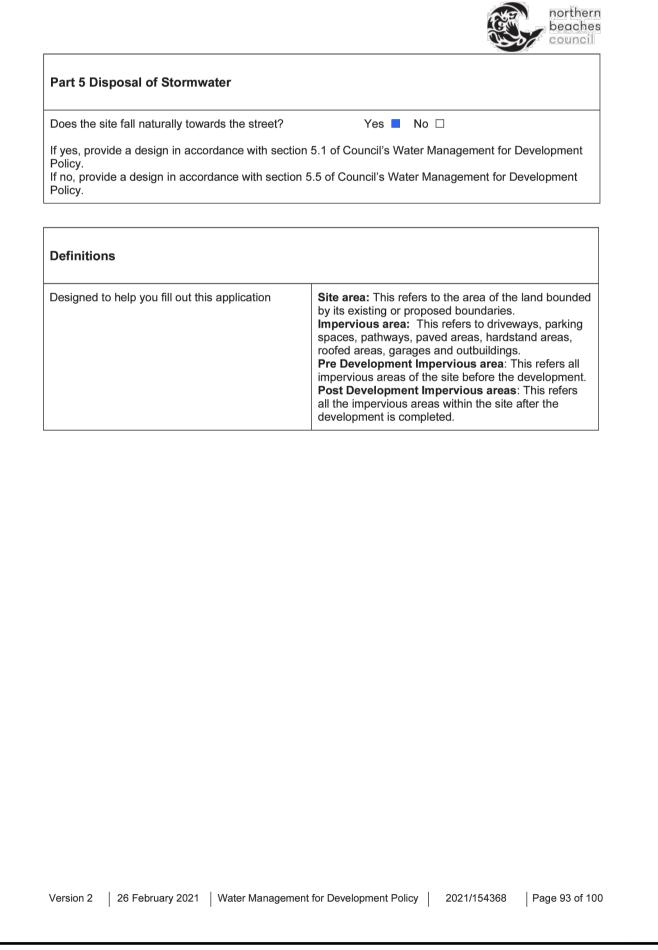
If no, OSD is not required and please proceed to part 5 of this checklist.

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Management for Development Policy.

Part 4 Determination of OSD Requirements

Part 4.1 Northern Beaches Stormwater Region 1





northern beaches council



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Drawing Title			
MANAGEMENT OF STOR	MWATER		
CHECKLIST			
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