

DESIGN SUMMARY COUNCIL REQUIREMENTS THIS PROPERTY FALLS WITHIN THE CITY OF CANTERBURY-BANKSTOWN LGA. THE STORMWATER REQUIREMENTS ARE DETAILED IN THE CANTERBURY DCP 2012 PART B STORMWATER AND FLOD D MANAGEMENT. THIS STORMWATER PLAN HAS BEEN PREPARED IN RAINWATER REUSE BASIX REQUIRES A MINIMUM 2000L OF RAINWATER REUSE STORAGE. THE RAINWATER TANK IS TO COLLECT AT LEAST 60m² OF ROOF AREA AND HAVE A CONNECTION FOR IRRIGATION AND LAUNDRY. A SUITABLE RAINWATER TANK HAS BEEN SPECIFIED TO MEET THESE REQUIREMENTS. ON-SITE DETENTION (OSD) AS PER SECTION B5.5.1 OF THE DCP, FOR DUAL OCCUPANCIES OSD IS REQUIRED WHERE THE PROPOSED IMPERVIOUS AREA IS GREATER THAN OR EQUAL TO 70% OF THE TOTAL SITE AREA. WESTERN OCCUPANCY SITE AREA = 307m2 LANDSCAPED AREA = 136m² (44%) IMPERVIOUS AREA = 171m² (56%) EASTERN OCCUPANCY SITE AREA = 307m2 LANDSCAPED AREA = 129m² (42%) IMPERVIOUS AREA = 178m² (58%) AS PER COUNCIL POLICY OSD HAS NOT BEEN PROVIDED. DRAINAGE SYSTEM TO BE PROVIDED WITH GRAVITY FED PIPES AND SILT ARRESTOR PIT. OVERLAND FLOW OVERLAND FLOW PATHS TO EVALINE STREET ARE PROVIDED AS SHOWN... STORMWATER DISCHARGE PROPOSED DISCHARGE IS TO THE EXISTING PIT ON EVALINE STREET (17 LS IN THE 20 YR ARI EVENT) AND THE KERB AND GUTTER ON PARK STREET (5 L/S IN THE 20 YR ARI EVENT). A 1m WIDE EASEMENT WILL BE ESTABLISHED OVER THE EASTERN OCCUPANCY TO ALLOW THE WESTERN OCCUPANCY TO DRAIN WATER THROUGH IT. THE PROPOSED EASEMENT IS DRAWN ON THE PLAN. FLAT ROOF RWO SIZING FLAT ROOF MAXIMUM CATCHMENT = 26m² SPS TRUFLO 100mm HAS CAPACITY OF 7 L/S **LEGEND**

GRAVITY STORMWATER PIPE 100Ø U.N.O. REFER DWG C02 FOR DETAILS

DP DOWNPIPE CONNECTION

SP CAST IN PVC OVERFLOW SPITTER/SPIGO

GRATED INLET PIT 600x600 CLASS C U.N.O. REFER DWG C02 FOR DETAILS

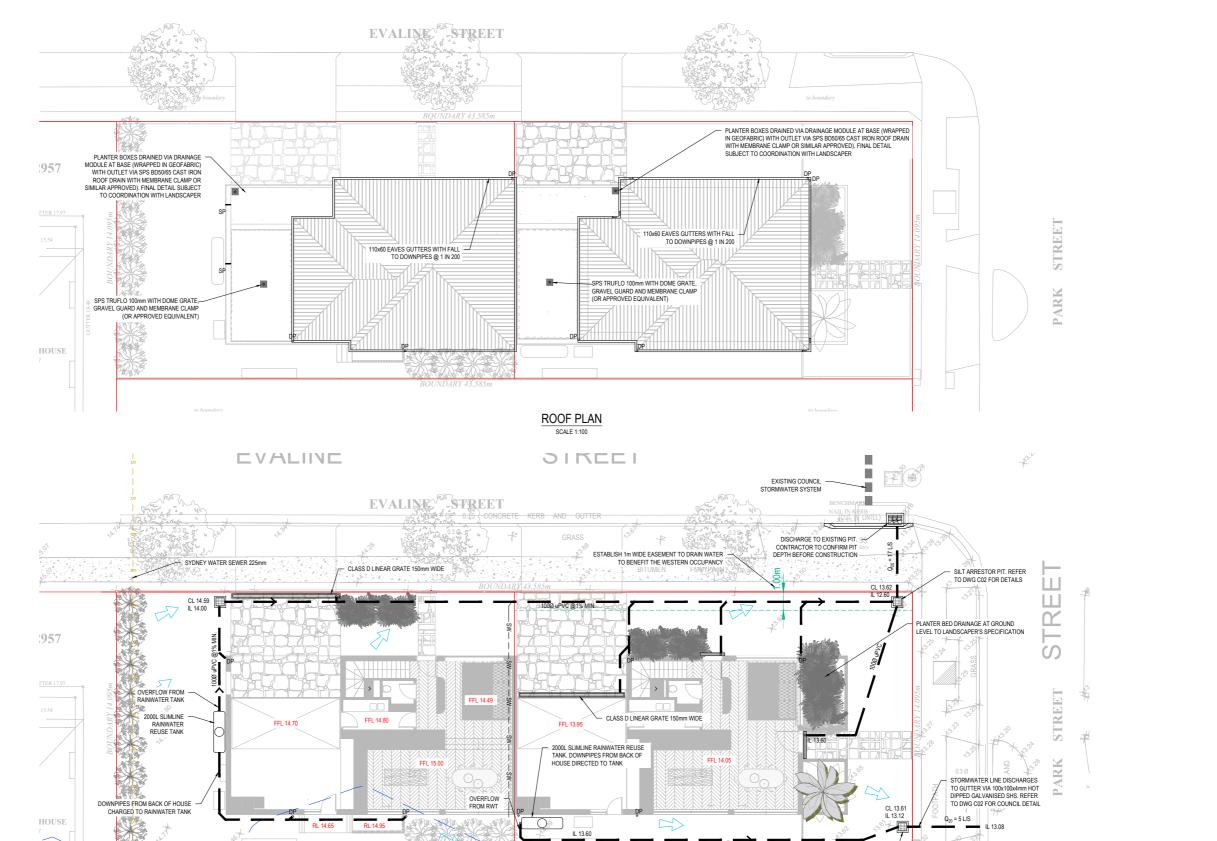
-sw- - SUBSOIL DRAIN
REFER DWG C02 FOR DETAILS

OVERLAND FLOWPATH



COUNCIL STORMWATER DRAINAGE MAP

NTS



GROUND FLOOR PLAN

BOUNDARY FENCE TO BE PERMEABLE WITH

MINIMUM 100mm CLEAR OPENING AT BASE TO ALLOW FOR WATER TO PASS UNDER IF NEEDED

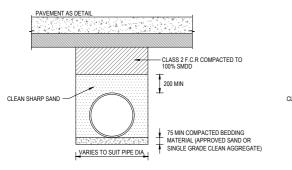
SILT ARRESTOR PIT. REFER -

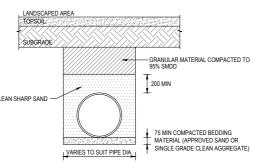
X

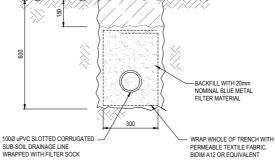
TO DWG C02 FOR DETAILS

REVISIONS APPROVAL ISSUE **DUAL OCCUPANCY** AIDAN HOGAN B.Eng. CPEng, MIEAustralia **WARNING** NOT TO BE USED FOR CONSTRUCTION 19 PARK ST, CAMPSIE e: hoganaodan@gmail.com SCALE 1:50 BEWARE OF UNDERGROUND SERVICES AH 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. WHERE THE DRAWING HAS BEEN ALTERED, AMENDED OR CHANGEI EITHER MANUALLY OR ELECTRONICALLY BY ANY THRD PARTY. GRAPHIO AM SEP 2022 A FOR APPROVAL STORMWATER DRAINAGE SUITE 3.04, 56 BOWMAN STREET, PYRMONT, NSW 2009 CONCEPT PLAN 022006 C01 D

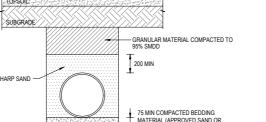
EXTENT OF 100 YR ARI FLOOD







SUB-SOIL DRAIN DETAIL



UNDER PAVEMENT PIPE BEDDING

UNDER LANDSCAPING PIPE BEDDING

DRAINAGE NOTES

- D1. PIT LEVELS SHOWN ON STORMWATER DRAINAGE PLANS ARE FOR INFORMATION. EXACT PIT LEVELS TO BE ADJUSTED TO SUIT FALLS IN PAVEMENT/LANDSCAPED AREA.
- D2. PITS GREATER THAN 1.2m DEEP TO BE FITTED WITH STEP IRONS.
- D3. DRAINAGE PIPES SHALL BE BACKFILLED WITH COMPACTED CLEAN SHARP SAND TO 200 ABOVE PIPE OBVERT, ADDITIONAL BACKFILL UNDER ROADS SHALL CONSIST OF CLASS 2 F.C.R. MATERIAL COMPACTED IN 200mm LAYERS TO 98% SMDD. UNDER LANDSCAPED AREAS ADDITIONAL BACKFILL SHALL CONSIST OF GRANULAR MATERIAL COMPACTED IN 200mm LAYERS
- D4. A 3m LENGTH OF 100 Ø SLOTTED AGRICULTURAL LINE SURROUNDED BY GEOTECH STOCKING SHALL BE PROVIDED ON THE UPSTREAM SIDE OF ALL
- D5. CONCRETE STORMWATER PIPES TO BE CLASS '3' UNDER ROADS AND CLASS '2' IN NON-TRAFFICED AREAS, ALL PIPES GREATER THAN 300Ø ARE TO BE RUBBER RING JOINTS U.N.O.
- D6. CONCRETE PITS GREATER THAN 1.0m DEEP TO BE REINFORCED WITH N12-200 EACH WAY CENTRED, MIN. 300 LAP, CONCRETE Fc 25MPa
- 1500, 2250 & 3000 uPVC PIPES TO BE SEWER GRADE PIPE UNDER TRAFFICABLE PAVEMENT. MIN. 400 COVER UNDER NON-TRAFFICABLE PAVEMENT.
- D8. PIT COVERS & GRATED DRAINS IN TRAFFICABLE PAVEMENT TO BE AS 3996 CLASS D "HEAVY DUTY" & IN NON-TRAFFICABLE AREAS TO BE AS 3996 CLASS C "LIGHT DUTY".

ROOF DRAINAGE NOTES

- RD1. CONTRACTOR SHALL ALLOW FOR ALL FLASHING AND WATERPROOFING IN ACCORDANCE WITH THE AUSTRALIAN STANDARD HB 39:2015 AND AS REQUIRED TO PROVIDE A "WATERTIGHT" JOINT.
- RD2. FOR BOX GUTTERS CONTRACTOR SHALL ALLOW TO INSTALL 100% EMERGENCY OVERFLOW MEASURES TO ATMOSPHERE IN ACCORDANCE WITH AS3500.
- RD3. CONTRACTOR SHALL ALLOW FOR FALL IN GUTTERS AT A MINIMUM OF 1: 200 TO ALLOW FOR ADEQUATE FALL TO THE SUMP/DOWNPIPE
- RD4. WHERE RAINHEADS ARE USED, OVERFLOW WEIR OF RAINHEAD TO BE NO HIGHER THAN HALF THE DEPTH OF THE GUTTER.
- RD5. DOMESTIC BOX GUTTERS TO BE MINIMUM 200mm WIDE & MINIMUM 75mm DEEP AT HIGH END.
- RD6. COMMERCIAL AND INDUSTRIAL BOX GUTTERS TO BE MINIMUM 300mm WIDE & MINIMUM 75mm DEEP AT HIGH END.
- RD7. BOX GUTTER SUMPS TO BE MINIMUM 150mm DEEP AND 400mm LONG.
- RD8. EAVES GUTTERS TO BE OFFSET FROM FASCIA MINIMUM OF 4mm.
- RD9. BACK OF EAVES GUTTERS TO BE MINIMUM 10mm BELOW TOP OF FASCIA.
- RD10. CONTRACTOR SHALL ALLOW FOR ALL REQUIRED EXPANSION JOINTS AND ADJUSTMENTS FOR THERMAL VARIATION. ALL EXPANSION SPACE SHALL BE A MINIMUM OF 50mm.
- RD11. CONTRACTOR SHALL ALLOW TO INSTALL GUTTER GUARDS AND MESH SCREENS ON ALL GUTTERS, DOWNPIPES AND SUMPS.
- RD12. CONTRACTOR TO PROVIDE A MAINTENANCE SCHEDULE FOR REGULAR CLEANING AND HOSE FLUSHING OF ALL DOWN PIPES AND GUTTERS.
- RD13. CONTRACTOR TO PROVIDE A WATER TEST FOR ALL INTERNAL DOWNPIPES FOR 10 MINUTES AT 100mm OF HEAD WATER/OR AIR TEST PRESSURE OF NOT LESS THAN 30 kPa FOR A MINIMUM OF 3 MINUTES IN ACCORDANCE



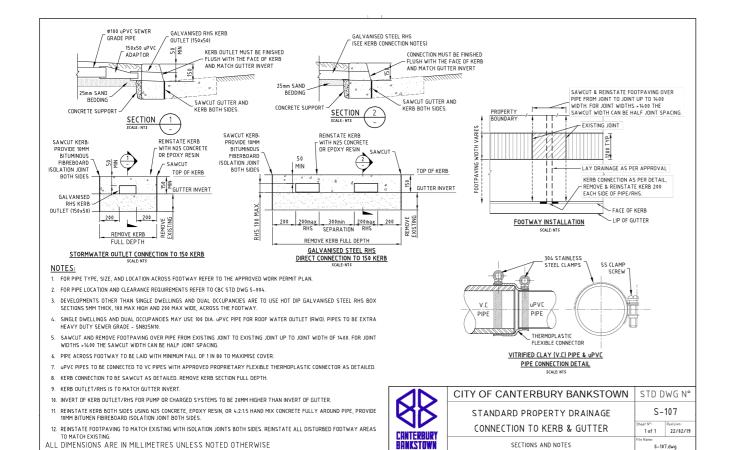
SILT ARRESTOR PIT SCALE 1:20

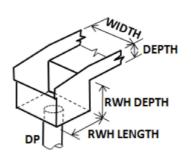
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE

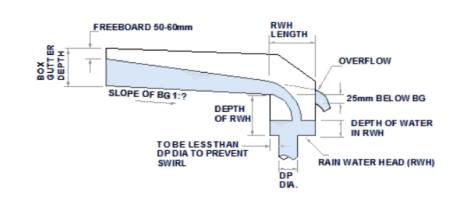


DOWNPIPE

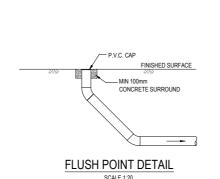
SECTIONS AND NOTES

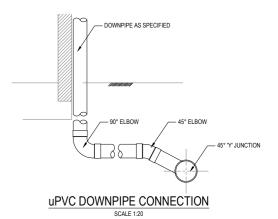






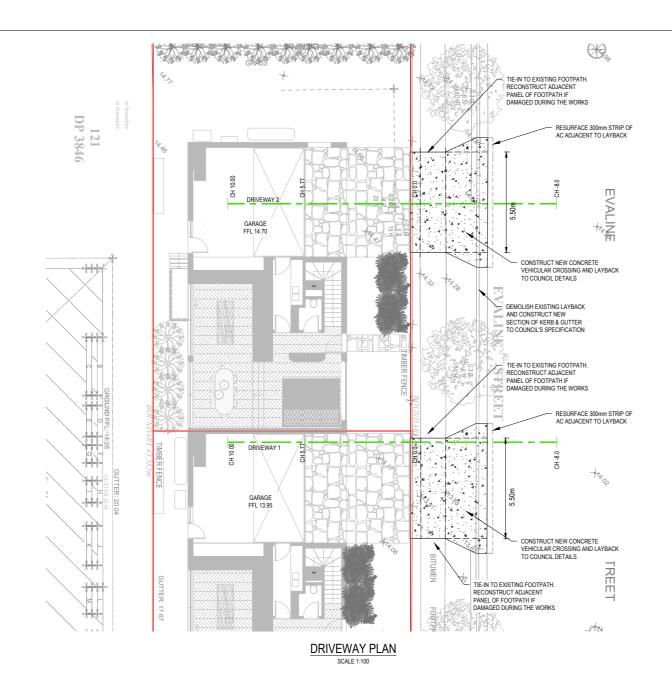
RAINWATER HEAD SCHEMATICS

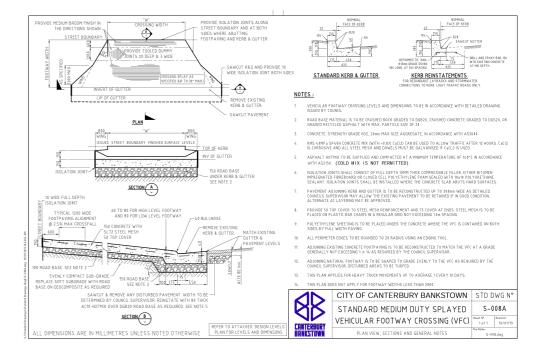


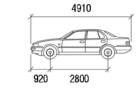


REVIS	IONS:	SCALE BAR		
				0 1 2 3 4 5 1m 15 2m
				SCALE 1:20
				JOALL 1.20
				COPYRIGHT (©) THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF AIDAN HOGAN, IT WHERE THE DRAWING HAS BEEN ALTERED, AMENDED OR CHANGED
				MUST NOT BE RETAINED. COPIED OR USED WITHOUT THE AUTHORITY OF EITHER MANUALLY OR ELECTRONICALLY BY ANY THRD PARTY.
				AIDAN HOGAN. DISCLAMER NOTE THIS IS AN UNCONTROLLED DOCUMENT ISSUED FOR INFORMATION
В	FOR APPROVAL	AH	21.04.23	THIS DRAWING AND ITS CONTENTS ARE ELECTRONICALLY GENERATED, PURPOSES ONLY, UNLESS SIGNED, FIGURED DIMENSIONS TAKE ARE CONFIDENTIAL AND MAY ONLY BE USED FOR THE PURPOSE FOR PRECEDENCE OVER SCALED, DO NOT SCALE REDUCED SIZE DRAWINGS.
A	FOR APPROVAL	AH	31.10.22	WHICH THEY WERE INTENDED. AIDAN HOGAN WILL NOT ACCEPT VERIFY DIMENSIONS PRIOR TO COMMENCING ANY ON-SITE OR OFF-SITE RESPONSIBILITY FOR ANY CONSEQUENCES ARISING FROM THE USE OF WORKS OR FABRICATION.
No.	REVISION DESCRIPTION	DRAWN	DATE	THE DRAWING FOR OTHER THAN ITS INTENDED PURPOSE OR IF IN DOUBT - ASK.

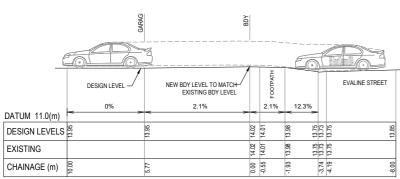
AIDAN HOGAN B.Eng. CPEng, MIEAustralia e: hoganaodan@qmail.com	DUAL OCCUPANCY 19 PARK ST, CAMPSIE	APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION					
5g		DESIGNER AH	SHEET SIZE A1				
GRAPHIO AM	DRAINAGE DETAILS	SCALE	PROJECT START DATE SEP 2022				
SUITE 3.04, 56 BOWMAN STREET, PYRMONT, NSW 2009	DIV III VIOL DE ITALE	022006		C02	REVISION B		



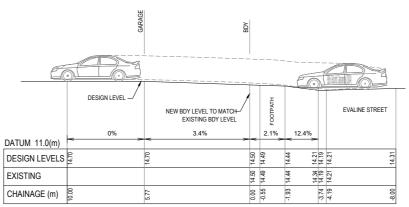




B85



DRIVEWAY 1 LONG. SECTION



DRIVEWAY 2 LONG. SECTION

EVI	ISIONS:		SCALE BAR	_	Δ.		CIVIL ENGINEER	PROJECT TITLE	DRAWING STATUS	A DDDOV	AL ICCLIE		
			0 1 2	3 4 5 m	/N/		AIDAN HOGAN B.Eng. CPEng, MIEAustralia	DUAL OCCUPANCY		APPROV	AL ISSUE		
						WARNING	AIDAIN I IOOAIN B.Eng. CPEng, MIEAUstralia	l .	NOT TO BE USED FOR CONSTRUCTION				
			SCALE 1:50			VV/ ((\ (\ \))))))))))))))	e: hoganaodan@gmail.com	19 PARK ST, CAMPSIE	110	I TO DE OSED I	JI CONSTITUCTI	ION	
						BEWARE OF UNDERGROUND SERVICES	o. noganaoan agnamoon		DESIGNER	SHEET SIZE			
					7 41 \				l AH	A1	1		
			COPYRIGHT © THE DRAWNES IS COPYRIGHT AND THE DRODERTY OF AIDAN MOCAN IT	WHERE THE DRAWING HAS BEEN ALTERED AMENDED OF CHANGED	(-)	THE LOCATIONS OF UNDERGROUND SERVICES ARE			SCALE	000 507 07107 0175	1		
			MUST NOT BE RETAINED, COPIED OR USED WITHOUT THE AUTHORITY OF	EITHER MANUALLY OR ELECTRONICALLY BY ANY THIRD PARTY.	\	APPROXIMATE ONLY AND THEIR EXACT POSITION	ARCHITECT AM	DRAWING TITLE	SCALE	PROJECT START DATE SEP 2022	1		
С	AMENDED LAYOUT AH AMENDED LAYOUT AH	24.08.23	DISCLAMER	THIS IS AN UNCONTROLLED DOCUMENT ISSUED FOR INFORMATION		SHOULD BE PROVEN ON SITE. NO GUARANTEE IS	GRAPHIO AM	DRIVEWAY DETAILS		SEP 2022	1		
В	AMENDED LAYOUT AH	21.04.23	THIS DRAWING AND ITS CONTENTS ARE ELECTRONICALLY GENERATED, ARE CONFIDENTIAL AND MAY ONLY BE USED FOR THE PURPOSE FOR	PURPOSES ONLY, UNLESS SIGNED. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED. DO NOT SCALE REDUCED SIZE DRAWINGS.		GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.	l .		JOB No.			REVISION	
Α	FOR APPROVAL AH	31.10.22	WHICH THEY WERE INTENDED. AIDAN HOGAN WILL NOT ACCEPT	VERIFY DIMENSIONS PRIOR TO COMMENCING ANY ON-SITE OR OFF-SITE WORKS OR FARRICATION	/		SUITE 3.04, 56 BOWMAN STREET, PYRMONT, NSW 2009		022006		C03		
No.	REVISION DESCRIPTION DRAWN	DATE	THE DRAWING FOR OTHER THAN ITS INTENDED PURPOSE OR	IF IN DOUBT - ASK.					022000		000		