

PROPOSED DUAL OCCUPANCY AT 22 UNIVERSAL AVENUE, GEORGES HALL NSW 2198

DRAINAGE NOTES:

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE

MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS

BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL

ALL PITS TO HAVE 600x600mm INTERNAL DIMENSIONS (U.N.O.)

SILT ARRESTORS TO HAVE 900x900mm INTERNAL DIMENSIONS

HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS

PIT GRATE TO BE TYPE WELDLK OR APPROVED EQUIVALENT

ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP

ALL PITS SHALL BE MAINTAINED REGULARLY

TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER

MAXIMUM FRONT ENTRY PIPE:-
STRAIGHT ENTRY - Ø750
SKEW ENTRY 45° - Ø525

Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES

COMPRESSIVE STRENGTH f_c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

STORMWATER PIPE
BEDDING/PAVING NOTES:

WHERE TRENCH BASE IS ROCK A MINIMUM OF 75mm BEDDING TO BE PROVIDED UNDER PIPE COLLARS.

STORMWATER PIPE BEDDING DETAIL TO BE IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS. BEDDING DETAILS TO BE CONFIRMED UPON EXCAVATION & PRIOR TO INSTALLATION OF PIPEWORK.

FOOTPATH REINSTATEMENT
NOTES:

REMOVE ALL SAND FILL WITHIN THE FOOTPATH AREA TO THE EXISTING SUBGRADE.

SUPPORT ALL AUTHORITY SERVICES TO STRUCTURAL ENGINEERS DETAILS DURING EXCAVATION.

REINSTATE FOOTPATH SUBGRADE.

THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS:

SELECT FILL 95% MODIFIED

SELECT FILL (LESS THAN 300mm 98% MODIFIED BELOW BASE COURSE)

BASE COURSE 100% MODIFIED

EROSION & SEDIMENT CONTROL
NOTES:

CONTRACTOR TO PROVIDE SILT FENCE/HAY BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYP).

ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS.

DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY.

SURVEY

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. SYDNEY STRUCTURAL DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAW.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT SYDNEY STRUCTURAL.

DRAWING SCHEDULE

DRAWING No.	DRAWING TITLE
D00	COVER SHEET
D01	STORMWATER DRAINAGE PLAN - GROUND LEVEL
D02	STORMWATER DRAINAGE PLAN - FIRST LEVEL
D03	STORMWATER DRAINAGE PLAN - ROOF LEVEL
D04	STORMWATER DETAILS SHEET

				Sydney Office —		 SSC ENGINEERING		 ENGINEERS AUSTRALIA Professional Engineer MEMBER		CLIENT  zta architects architecture urban design interior design		ADDRESS 22 UNIVERSAL AVENUE, GEORGES HALL NSW 2198		STATUS ISSUED FOR DEVELOPMENT APPLICATION		DRAWN AM		DESIGNED JL		DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY.		SCALE 1:100 AT A1 SIZE					
C	25/08/2022	ISSUED FOR DEVELOPMENT APPLICATION	AK	A / 64/23 Macmahon Street, Hurstville, NSW								PROJECT PROPOSED DUAL OCCUPANCY		TITLE COVER SHEET		CHECKED AE		APPROVED AK		PROJECT No. SSCE220417		DRAWING No. D00		REV. C			
B	13/07/2022	ISSUED FOR DEVELOPMENT APPLICATION	AK	P / +61 401 200 104																							
A	05/08/2022	ISSUED FOR DEVELOPMENT APPLICATION	AK	E / info@sydneystructural.com.au																							
REV	DATE	DESCRIPTION	RVD	W / www.sydneystructural.com.au																							
REVISIONS																											



NOTES

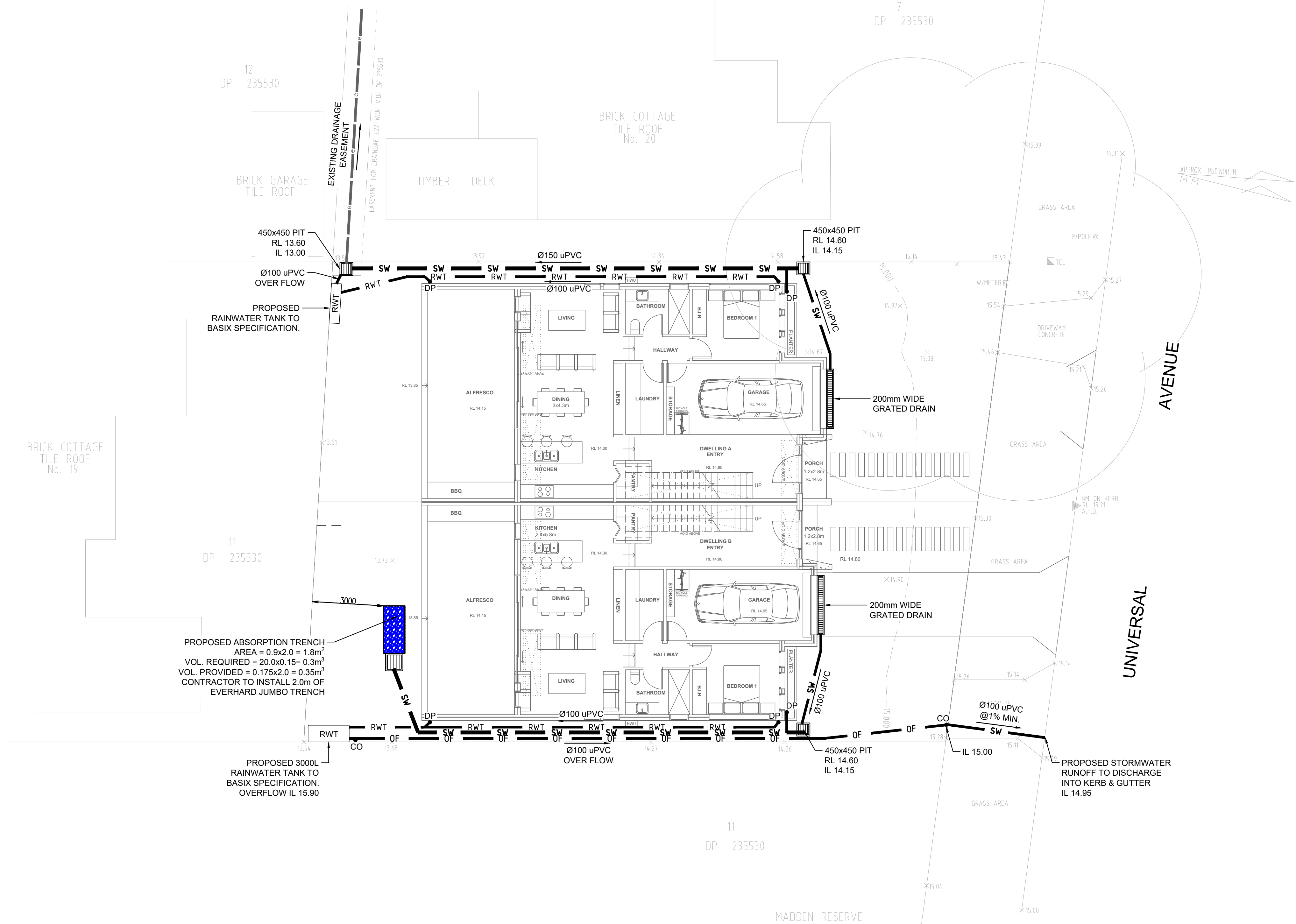
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- IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
- ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
- ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
- ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.2:1998 AND COUNCIL SPECIFICATIONS.
- LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, LANDSCAPE AND STRUCTURAL PLANS.
- ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION.
- ALL PITS OR GRATES IN TRAFFICABLE AREAS TO BE HEAVY DUTY.
- ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES
- EXISTING STORMWATER DRAINAGE TO BE UTILISED WHERE CONTRACTOR SEE FIT.

SYMBOLS

RL	PIT SURFACE LEVEL
IL	INVERT LEVEL
TK	TOP OF KERB
SW	STORMWATER DRAINAGE PIPE
RWT	DOWNPIPE TO RAINWATER TANK
OF	OVERFLOW PIPE FROM RAINWATER TANK
10 10	Ø100 SUBSOIL PIPE
RM	RISING MAIN
FW	FLOOR WASTE 150X150
FW	FLOOR WASTE 150Ø
RWO	RAINWATER OUTLET 300Ø
DP	DOWN PIPE
CO	CLEAN OUT
IO	INSPECTION OPENING
VD	VERTICAL DROP
VR	VERTICAL RISER
CONCRETE COVER JUNCTION PIT	
GRATED INLET PIT	
WIDE GRATED DRAIN	

DESIGN NOTES

- LGA = CANTERBURY BANKSTOWN COUNCIL
- SCOPE OF WORKS TO INCLUDE DEMOLITION OF EXISTING DWELLING AND CONSTRUCTION OF RESIDENTIAL DEVELOPMENT.
- IN ACCORDANCE WITH COUNCIL GUIDELINES, OSD IS NOT REQUIRED FOR THE PROPOSED AREA AS IMPERVIOUS AREA IS LESS THAN 65%. IMPERVIOUS AREA = ~58%.
- RAINWATER TANK PER DWELLING AS PER BASIX SPECIFICATIONS.



C	25/08/2022	ISSUED FOR DEVELOPMENT APPLICATION	AK	Sydney Office — A / 64/23 Macmahon Street, Hurstville, NSW P / +61 401 200 104 E / info@sydneystructural.com.au W/ www.sydneystructural.com.au
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REV	DATE	DESCRIPTION	RVD	



ADDRESS
22 UNIVERSAL AVENUE, GEORGES HALL NSW 2198

PROJECT
PROPOSED DUAL OCCUPANCY

STATUS
ISSUED FOR DEVELOPMENT APPLICATION

TITLE
STORMWATER DRAINAGE PLAN -
GROUND LEVEL

DRAWN
AM

CHECKED
AE

DESIGNED
JL

APPROVED
AK

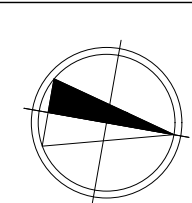
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PROJECT No.
SSCE220417

SCALE
1:100

DRAWING No.
D01

REV.
C



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Ø100 SUBSOIL PIPE
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FLOOR WASTE 150X150
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FLOOR WASTE 150Ø
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RAINWATER OUTLET 300Ø
- DP

DOWN PIPE
- CO

CLEAN OUT
- IO

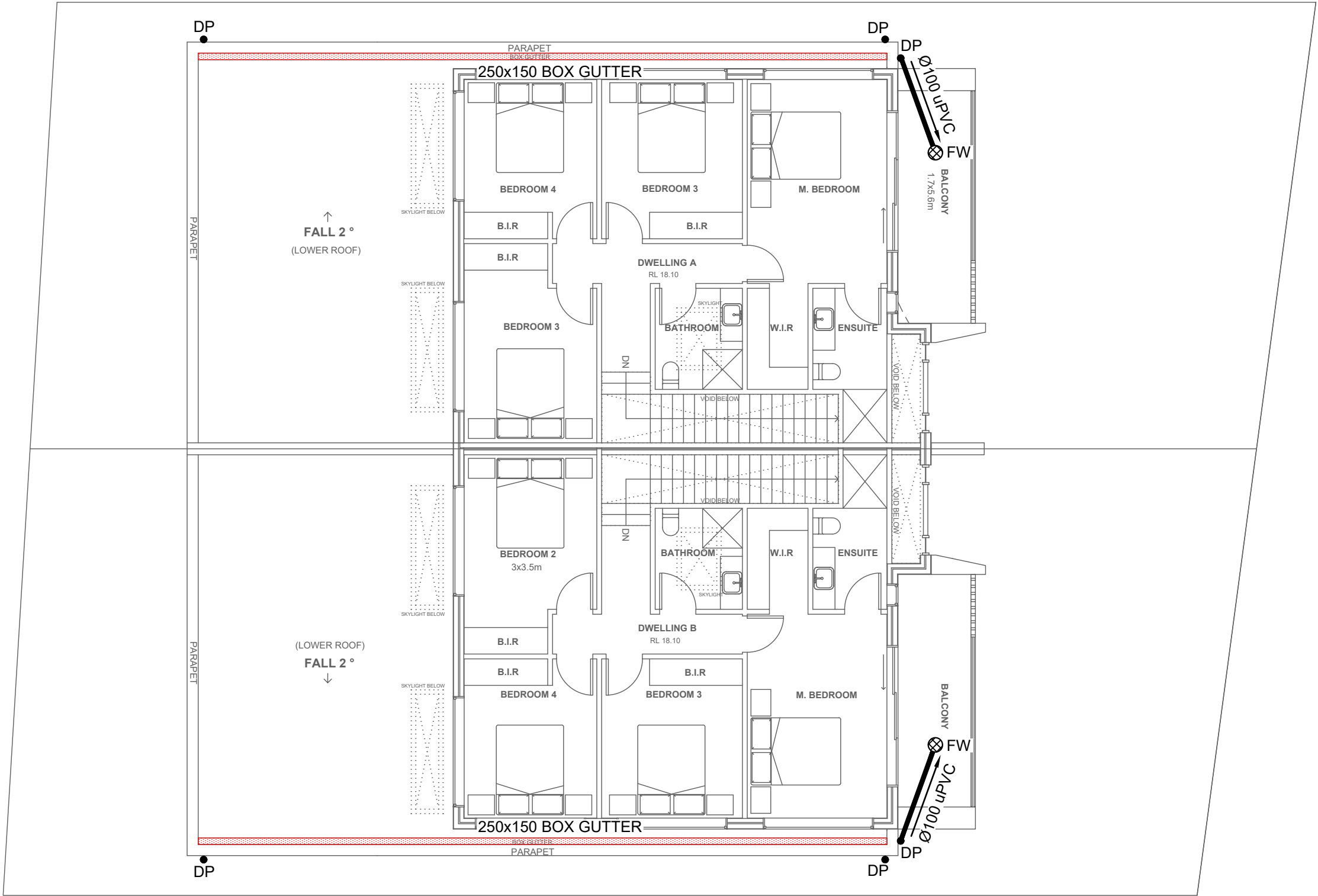
INSPECTION OPENING
- VD

VERTICAL DROP
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UNIVERSAL AVENUE

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SSC
ENGINEERING

SYDNEY
STRUCTURAL &
CIVIL



CLIENT
zfa
zfa architects
architecture / urban design / interior design

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PROJECT
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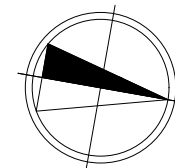
STATUS
ISSUED FOR DEVELOPMENT APPLICATION

TITLE
STORMWATER DRAINAGE PLAN -
FIRST LEVEL

DRAWN AM	DESIGNED JL
CHECKED AE	APPROVED AK

DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.	SCALE 1:100
PROJECT No. SSCE220417	DRAWING No. D02

REV.	AT A1 SIZE
C	



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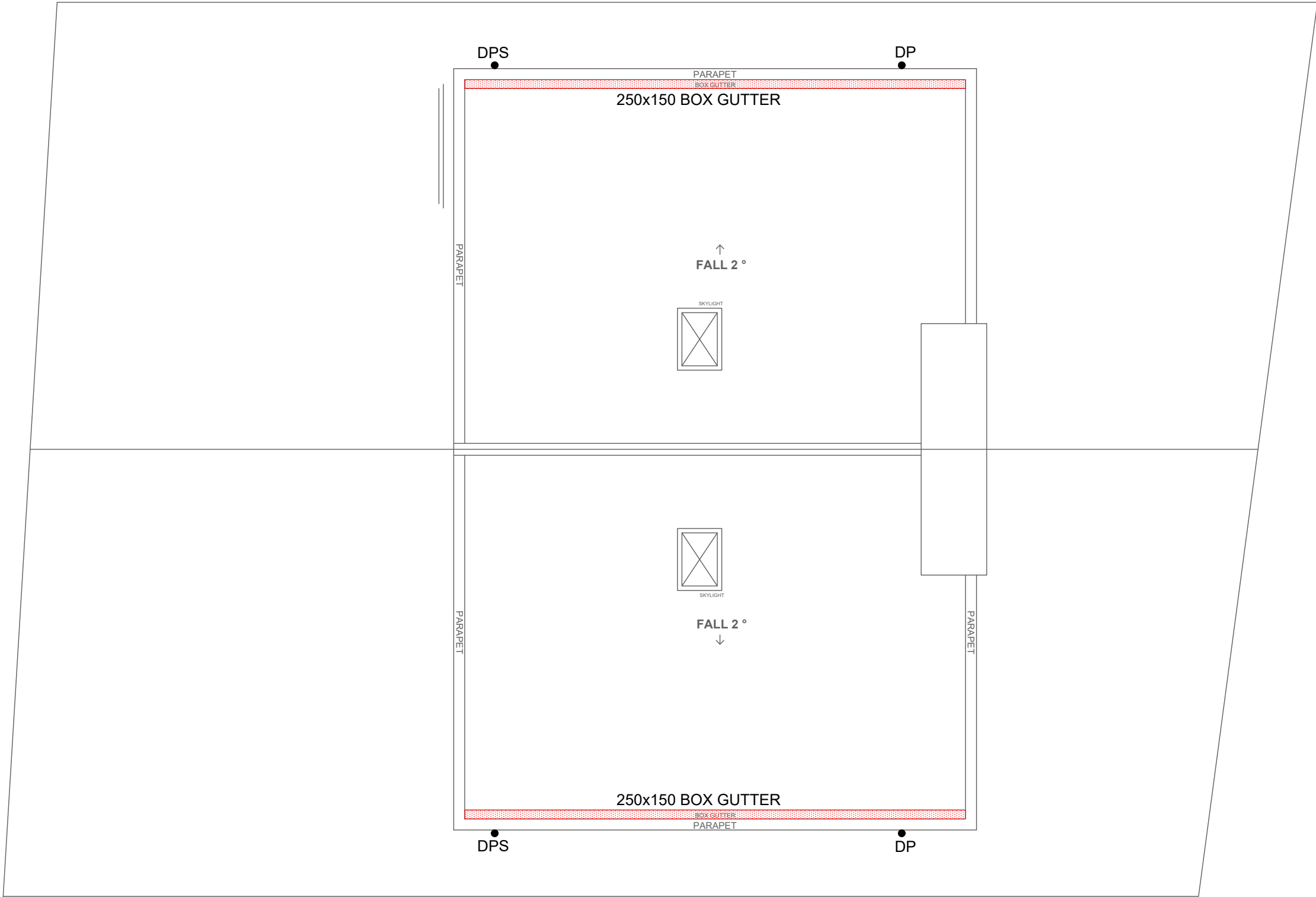
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UNIVERSAL AVENUE

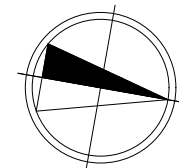
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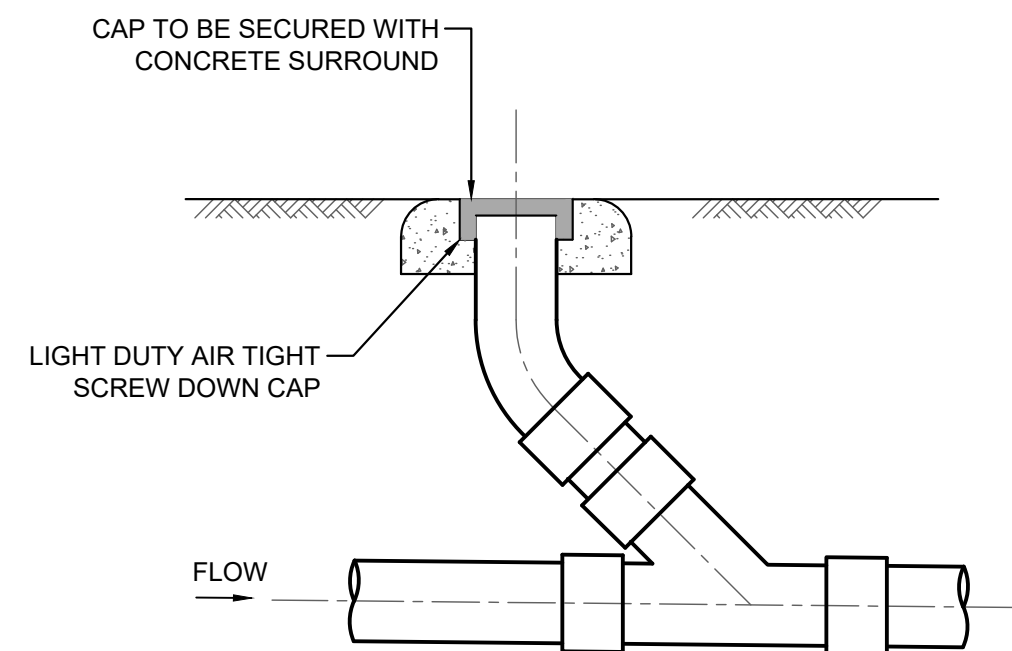


CLIENT	22 UNIVERSAL AVENUE, GEORGES HALL NSW 2198
PROJECT	PROPOSED DUAL OCCUPANCY

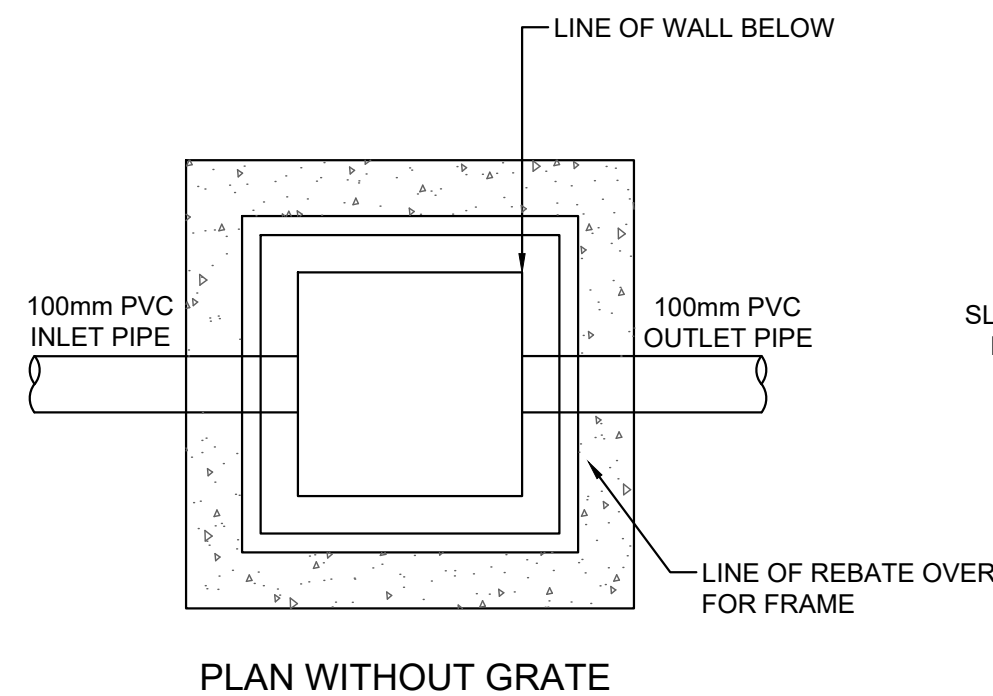
STATUS	ISSUED FOR DEVELOPMENT APPLICATION
TITLE	STORMWATER DRAINAGE PLAN - ROOF LEVEL

DRAWN	AM	DESIGNED	JL	DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY.	SCALE	1:100
CHECKED	AE	APPROVED	AK	PROJECT No.	DRAWING No.	REV.
				SSCE220417	D03	C

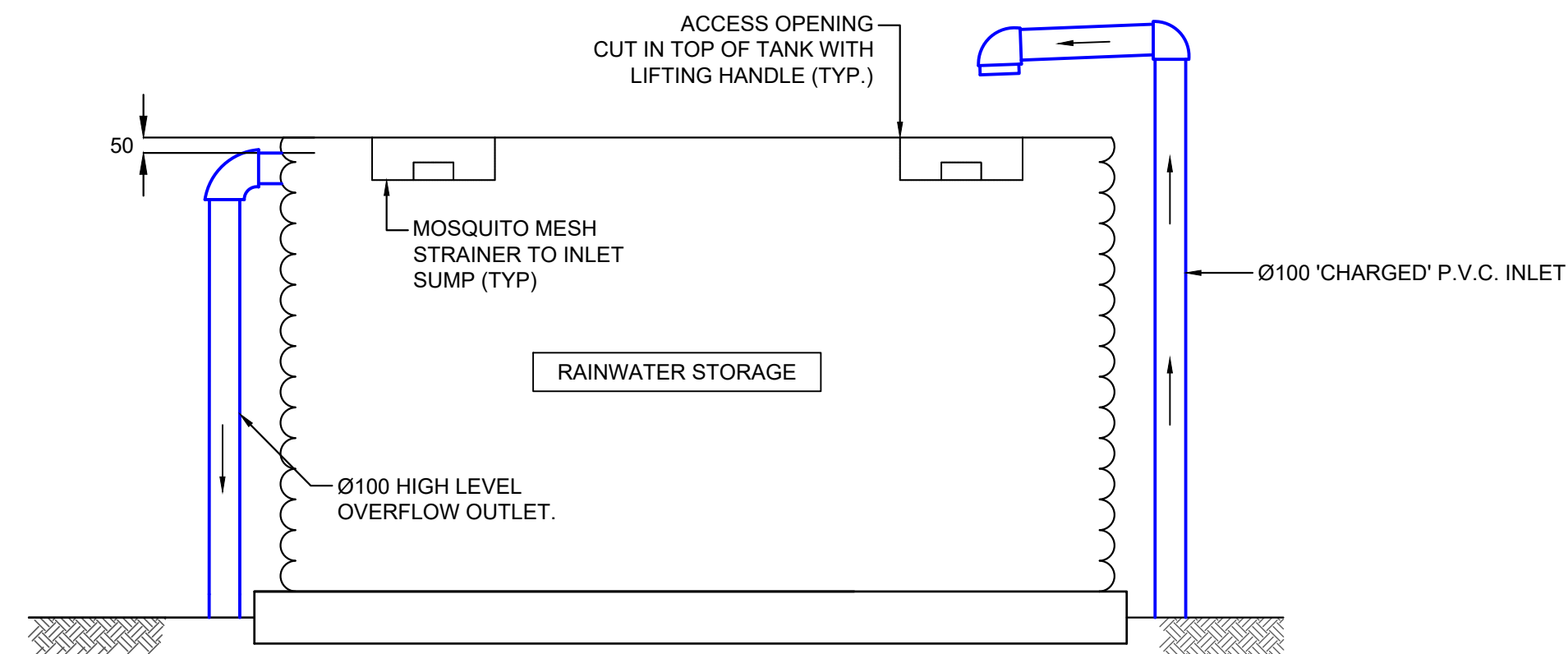
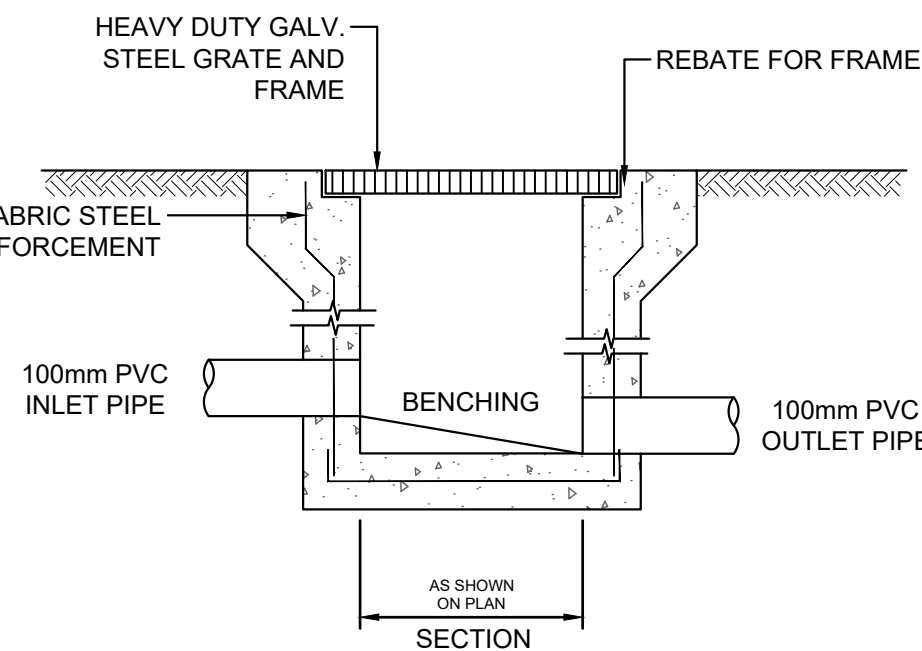




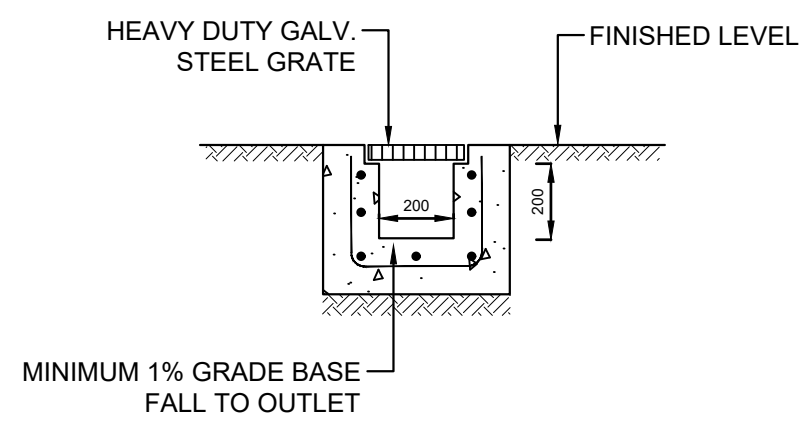
TYPICAL CLEANING EYE DETAIL
SCALE NTS



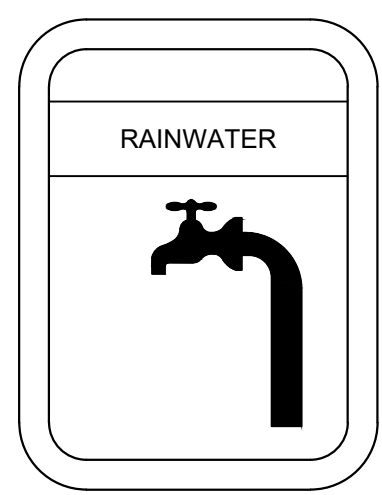
DETAIL
STORMWATER PIT
SCALE NTS



TYPICAL RAINWATER TANK DETAIL
NOT TO SCALE

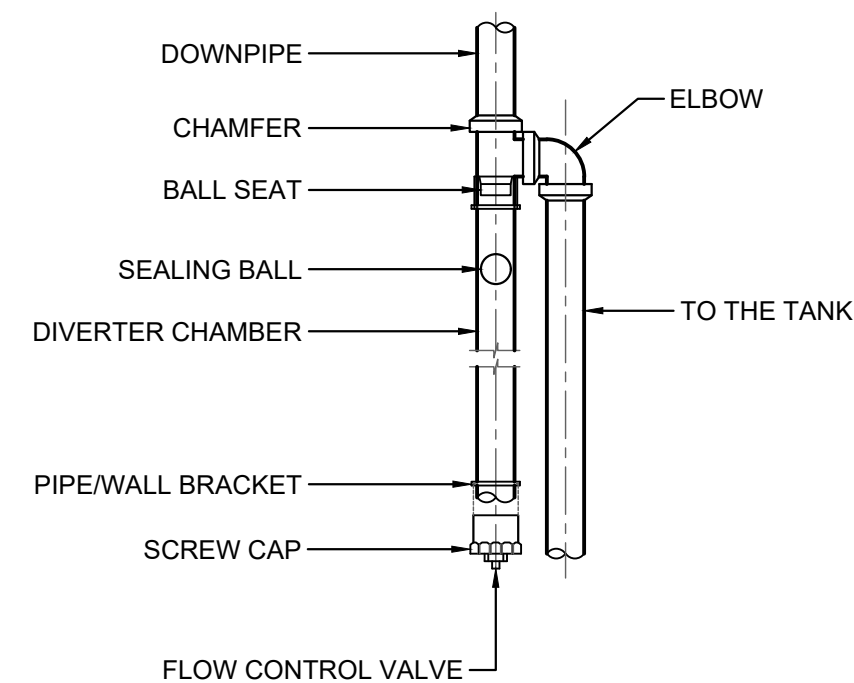


DETAIL
GRADED TRENCH DRAIN
SCALE 1:20

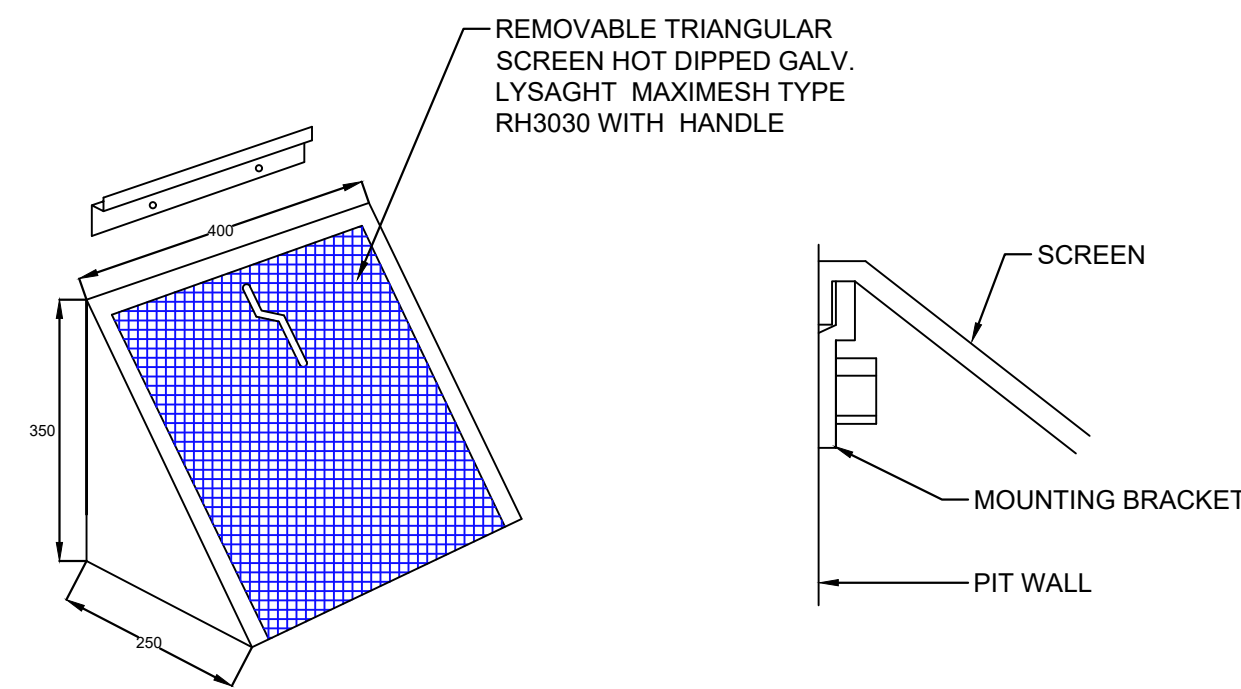


DETAIL
RAINWATER SIGN
SCALE 1:20

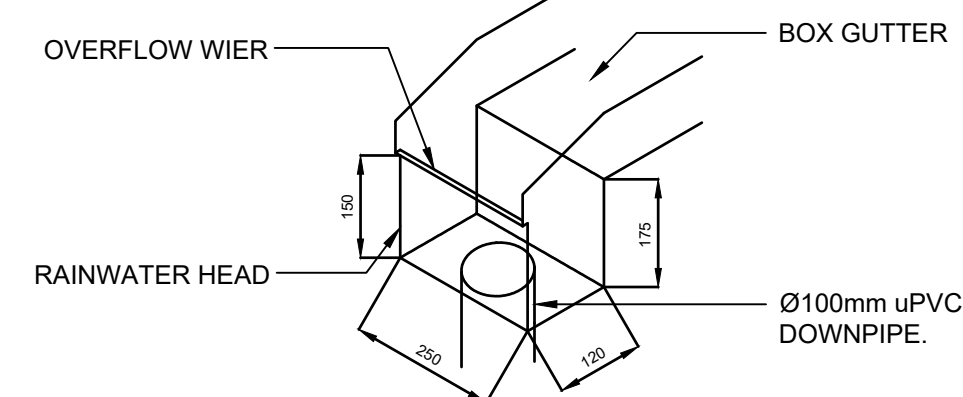
LEGEND:
BACKGROUND IS YELLOW
TEXT IS WHITE ON BLACK
BACKGROUND



FIRST FLUSH DETAIL
SCALE 1:10



MULTI PURPOSE FILTER SCREEN
SCALE 1:10



STANDARD RAINWATER HEAD SECTION
NOT TO SCALE

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SSC ENGINEERING
SYDNEY STRUCTURAL & CIVIL

ENGINEERS AUSTRALIA
Professional Engineer
MEMBER

CLIENT
zta
zta architects
architecture / urban design / interior design

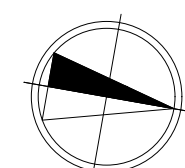
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SCALE
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C



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