

PROPOSED STORMWATER MANAGEMENT PLAN

NO 7 OGMORE COURT BANKSTOWN LOT 4 IN DP 29530

LEGEND

○	DP	DOWNPIPE
■		GRADED PIT
—<sw—		DRAINAGE PIPE
SL		SURFACE LEVEL
IL		INVERT LEVEL
⊥		SPREADER
⊗		SEALED TOP PIT
○	CE	CLEANING/OPENING EYE

PIPE SCHEDULE

PIPE	SIZE	MATERIAL	GRADE	PIPE DETAIL
A	100Ø	PVC	1% (MIN)	OSD TO KERB/GUTTER
B	150Ø	PVC	1% (MIN)	GRAVITY FLOW STORMWATER PIPE
C	100Ø	PVC	1% (MIN)	GRAVITY FLOW STORMWATER PIPE

Design Notes-

- # 90mm dia Circular or 100x50 rectangular Downpipes are to be used
- # For UNIT1- min100 sqm roof area to be directed to 1.5KL RWT
- # For UNIT2- min100 sqm roof area to be directed to 1.5KL RWT
- # Gradient of Gutter designed as 1:500 and min internal X-sectional area 96sq cm.

STORMWATER LAYOUT NOTES

The Plan been developed as per standard AS/NZS 3500.3:2003

All Pipe sizes and grades are provided in Pipe Schedule

All Pits sizes and RLs are as per Pit Schedule

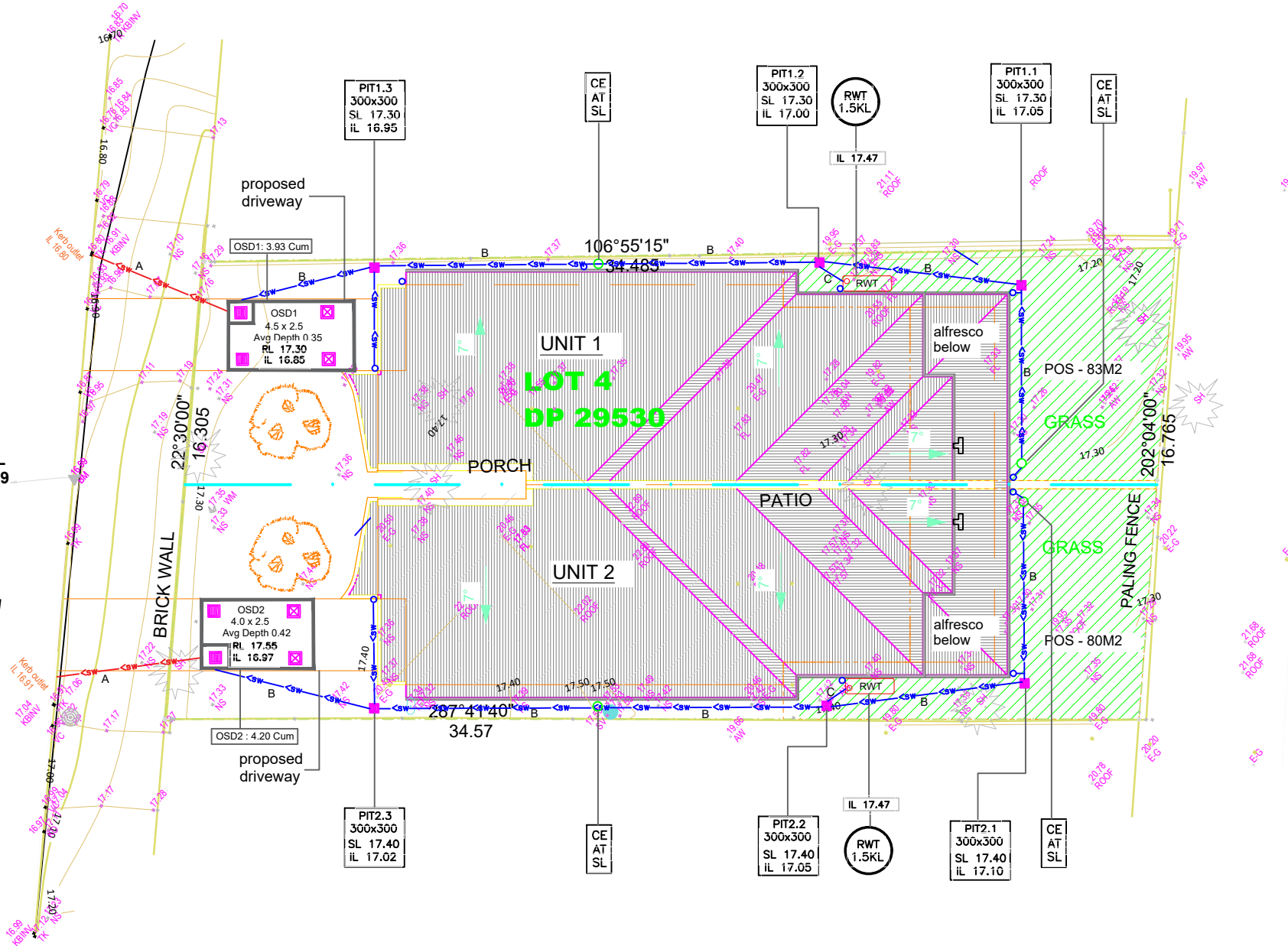
All Downpipes will remain clear of Windows, Doors and openings with a minimum of 400mm distance

Erosion and sedimentation control plan to be implemented prior any excavation

Builders to ensure services connections to house do not conflict with drainage design requirements

Dial before you dig to be conducted prior excavation

OGMORE COURT



Note- OSD 1 and OSD 2 detail design at SW03

PIT SCHEDULE - UNIT 1

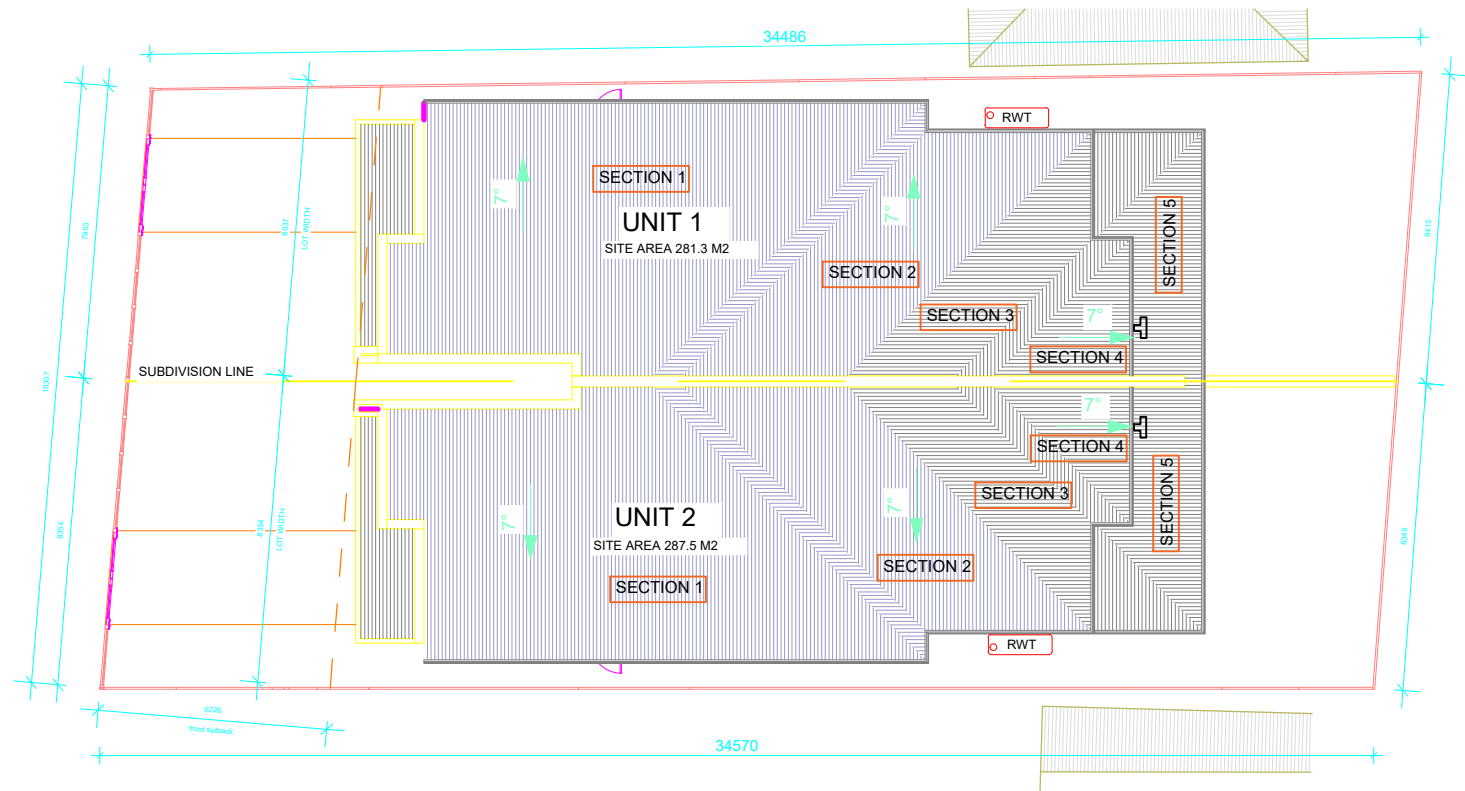
PIT	SIZE	SL	IL	COMMENT
1.1	300x300	17.30	17.05	GRADED PIT
1.2	300x300	17.30	17.00	GRADED PIT (RWT OVERFLOW)
1.3	300x300	17.30	16.95	GRADED PIT
OSD1	4500x2500	17.30	16.85	DETENTION TANK

PIT SCHEDULE - UNIT 2

PIT	SIZE	SL	IL	COMMENT
2.1	300x300	17.40	17.10	GRADED PIT
2.2	300x300	17.40	17.05	GRADED PIT (RWT OVERFLOW)
2.3	300x300	17.40	17.02	GRADED PIT
OSD2	4000x2500	17.55	16.95	DETENTION TANK

REV.NO.	DESCRIPTION TO REVISION	REV. BY	DATE	PROJECT	PLAN:	DESIGNED AND REVIEWED BY
				7 OGMORE COURT, BANKSTOWN NSW 2173 LOT 4/ DP 29530	STORMWATER MANAGEMENT PLAN	ABU AHMED (MIEAust)
				REFERENCE TO:	DATED	
				HARRY DESIGN STUDIO PTY LTD	28/09/2023	
					SCALE 1:200 ● A3 SCALE 1:100 METRES	
						Engineers Australia
						DRG NO. SW01

RAINWATER TANK ARRANGEMENT AND OSD CALCULATION
(ROOF SECTION ANALYSIS AND MASS CURVE ANALYSIS)



ROOF CATCHMENT CALCULATION FOR UNIT 1

Roof	Plan Area (sq.m)	Slope	Slope Factor	Effective Roof Area (Sq.m)
SECTION 1	80.50	7 deg	1.06	85.33 FOR RWT
SECTION 2	29.50	7 deg	1.06	31.27 FOR RWT
SECTION 3	19.00	7 deg	1.06	20.14
SECTION 4	6.80	7 deg	1.06	7.20
SECTION 5	16.00	7 deg	1.06	16.96
TOTAL				160.90

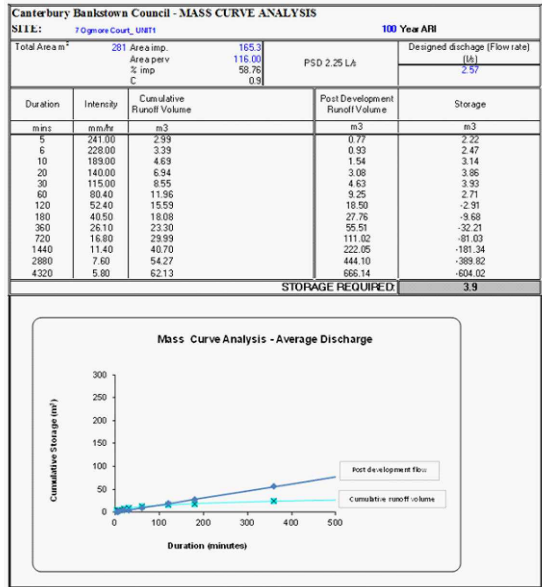
ROOF CATCHMENT CALCULATION FOR UNIT 2

Roof	Plan Area (sq.m)	Slope	Slope Factor	Effective Roof Area (Sq.m)
SECTION 1	80.50	7 deg	1.06	85.33 FOR RWT
SECTION 2	29.50	7 deg	1.06	31.27 FOR RWT
SECTION 3	19.00	7 deg	1.06	20.14
SECTION 4	6.80	7 deg	1.06	7.20
SECTION 5	16.00	7 deg	1.06	16.96
TOTAL				160.90

RWT SCHEDULE FOR UNIT 1 & UNIT 2

Roof Catchment	Effective Roof Area (Sq.m)	RWT CAPACITY	INVERT LEVEL
UNIT 1	116.60	1.5 KL	17.47
UNIT 2	116.60	1.5 KL	17.47

OSD VOLUME CALCULATION

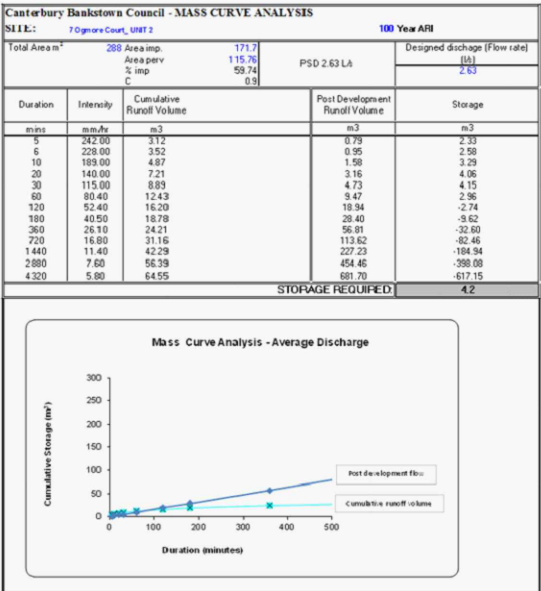


OSD Notes-

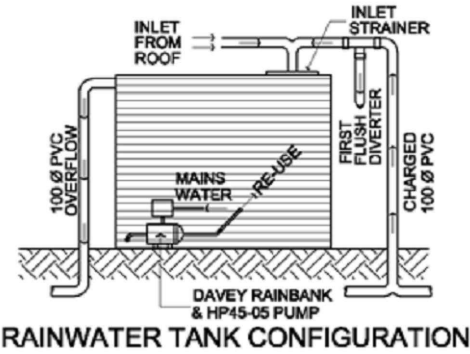
UNIT 1 min OSD size required 3.90 Cum, Designed for 3.93 Cum with an Orifice size 50mm

UNIT 2 min OSD size required 4.20 Cum, Designed for 4.20 Cum with an Orifice size 50mm

Detail in SW03



RAINWATER TANK ARRANGEMENT

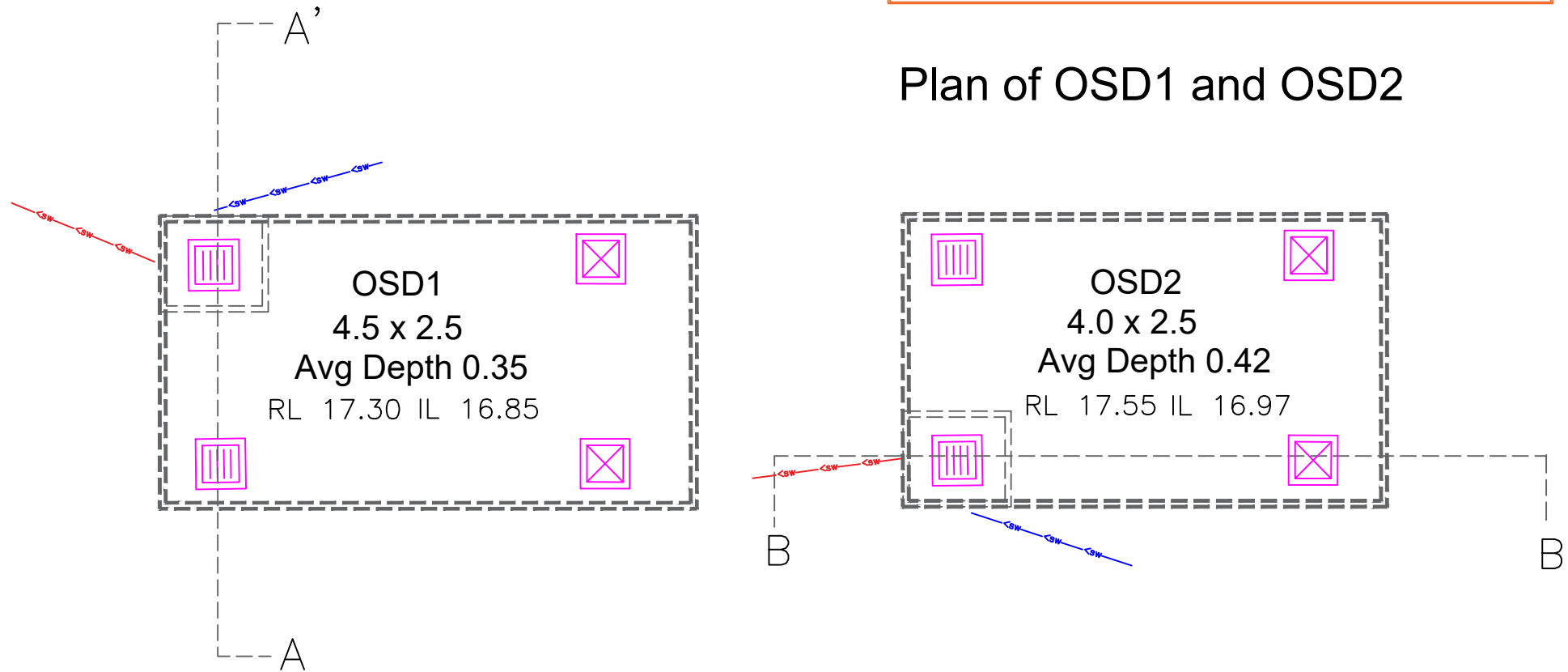


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				REFERENCE TO: HARRY DESIGN STUDIO PTY LTD	DATED 28/09/2023	
					SCALE 1:200 @ A3 SCALE 1:100 METRES	
						ENGINEERS AUSTRALIA
						DRG NO. SW02

OSD PLAN AND SECTIONS

(ORIFICE PLATE AND OSD X-SECTIONS)

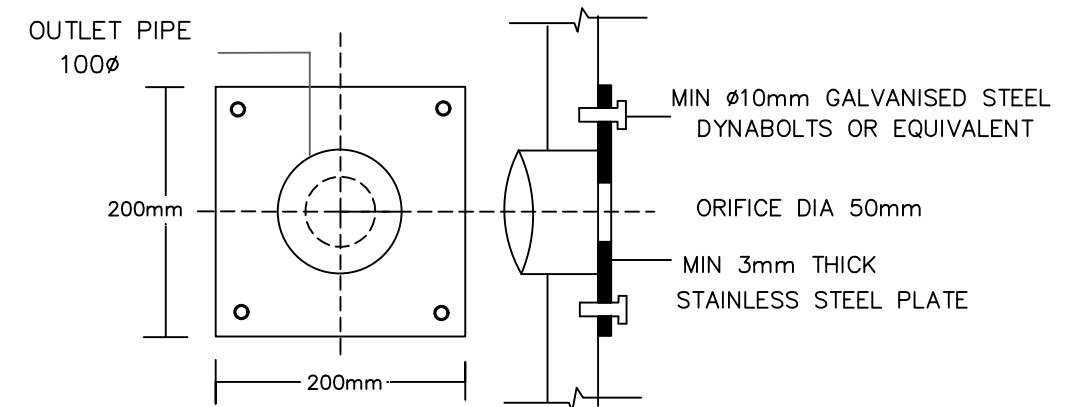
Plan of OSD1 and OSD2



OSD SCHEDULE FOR UNIT 1 & UNIT 2

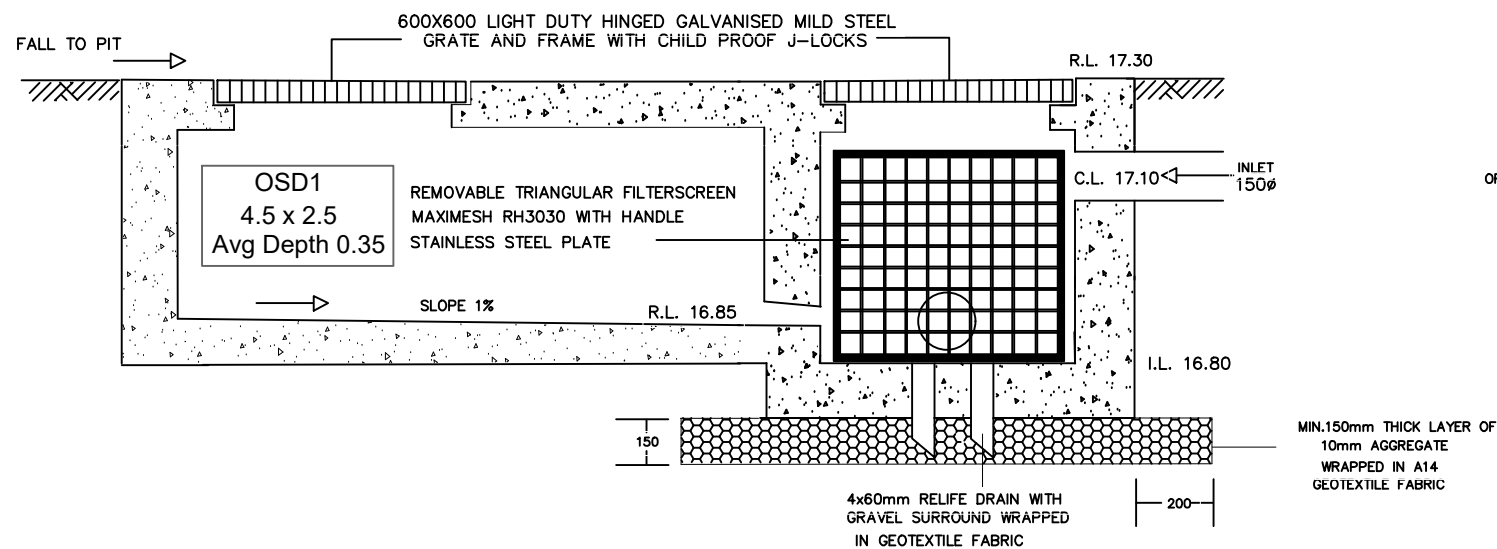
INDEX	Required Capacity	Provided Capacity	Designed Dimension
OSD 1	3.90 Cum	3.93 Cum	4.5(L) x 2.5 (W) x 0.35(D)
OSD 2	4.20 Cum	4.20 Cum	4.0(L) x 2.5 (W) x 0.42(D)

ORIFICE PLATE INSTALLATION FOR OSD

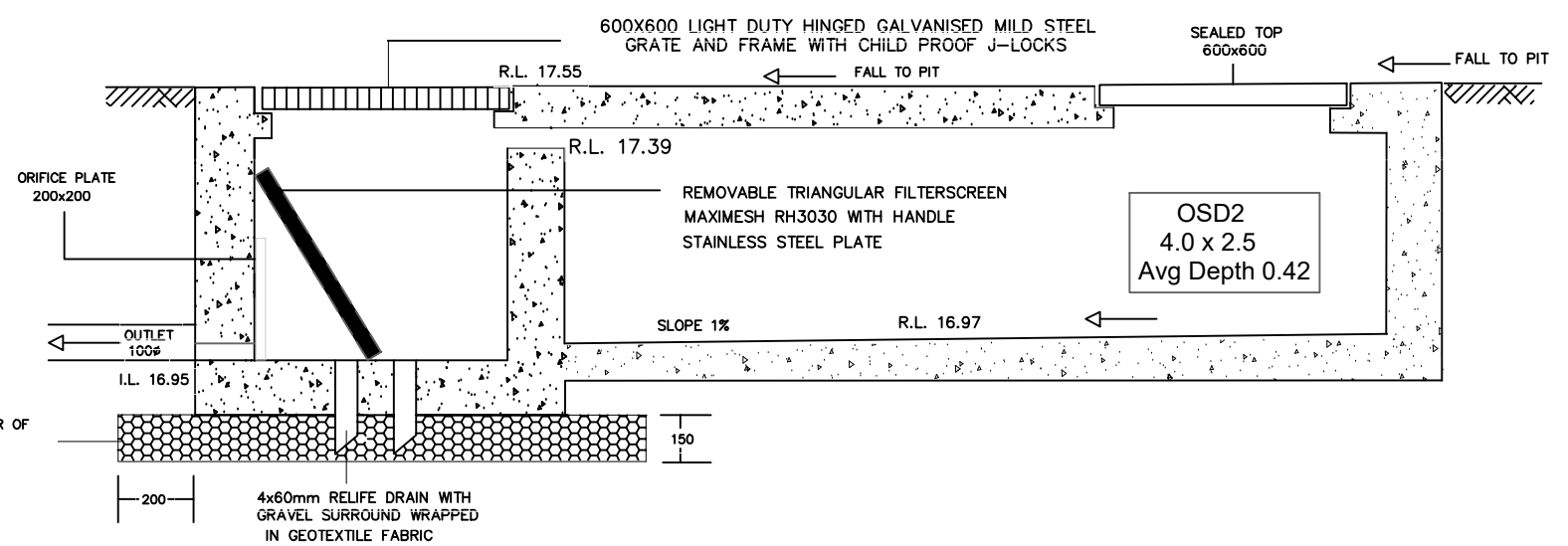


X- SECTIONS of OSD1 and OSD2

SECTION A-A'



SECTION B-B'



N.T.S.

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					SCALE 1:200 @ A3 SCALE 1:100 METRES	
						Engineers Australia
						ENGINEERS AUSTRALIA
						DRG NO. SW03

29th September 2023

TO WHOM IT MAY CONCERN

Dear Sir,

STATEMENT OF STORMWATER DRAINAGE DESIGN COMPLIANCE FOR PROPOSED DUPLEX IN LOT 4/ DP 29530, H/N 7 OGMORE COURT, BANKSTOWN, NSW 2173.

This is to certify that the Stormwater Drainage design has been prepared in accordance with AS/NZS 3500.3:2003 and in accordance with the Canterbury Bankstown DCP and Policy for Stormwater Management with Engineering Standards of Canterbury Bankstown Council, NSW. The OSDs are also designed to cater 1% AEP storm event with required SSR (Site Storage requirement) and acceptable PSD (Permissible Site Discharge).

I am appropriately qualified and competent in this professional area and as such can certify that the design and performance of the design systems comply with the abovementioned standards.

This certificate shall not be construed as relieving any other party of their responsibilities, liabilities or contractual obligations.

Yours faithfully



ABU AHMED

NER, MIEAust, BE (Civil Engineering), Grad-Cert (Local Govt. Engineering)

Senior Civil Engineer, R I Engineering

Contact no. 0425394757

abuahmedcivil@gmail.com