STRATHFIELD COUNCII RECEIVED

S8.2A-DA2021.235 17 January 2022

STORMWATER MANAGEMENT PLANS PROPOSED TOWNHOUSES No.33 MACKENZIE STREET, HOMEBUSH LOT 2 DP:1035608

DRAINAGE NOTES

PIPE SIZE:

THE MINIMUM PIPE SIZE SHALL BE:

 90mm DIA WHERE THE LINE ONLY RECEIVES ROOFWATER RUNOFF; OR 100mm DIA WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR UNPAVED AREAS ON THE PROPERTY

THE MINIMUM PIPE VELOCITY SHOULD BE 0.6 m/s AND A MAXIMUM PIPE VELOCITY OF 6.0 m/s DURING THE DESIGN STORM.

PIPE GRADE:

- THE MINIMUM PIPE GRADE SHALL BE: 1.0% FOR PIPES LESS THAN 225mm DIA
 - 0.5% FOR ALL LARGER PIPES

PIPES WITH A GRADIENT GREATER THAN 20% WILL REQUIRE ANCHOR BLOCKS AT THE TOP AND BOTTOM OF THE INCLINED SECTION; AND AT INTERVALS NOT EXCEEDING 3.0m

ANCHOR BLOCKS ARE DESIGNED ACCORDING TO CLAUSE 7.9 OF AS3500.3-2021

DEPTH OF COVER FOR PVC PIPES: MINIMUM PIPE COVER SHALL BE AS FOLLOWS:

LOCATION	MINIMUM COVER
NOT SUBJECT TO VEHICLE LOADING	100mm SINGLE RESIDENTIAL 300mm ALL OTHER DEVELOPMENTS
SUBJECT TO VEHICLE LOADING UNDER A SEALED ROAD	450mm WHERE NOT IN A ROAD 600mm
UNSEALED ROAD	750mm
PAVED DRIVEWAY	100mm PLUS DEPTH OF CONCRETE

SEE AS2032 INSTALLATION OF UPVC PIPES FOR FURTHER INFORMATION.

CONCRETE PIPE COVER SHALL BE IN ACCORDANCE WITH AS3725-2007 LOADS ON BURIED CONCRETE PIPES, HOWEVER A MINIMUM COVER OF 450mm WILL APPLY.

WHERE INSUFFICIENT COVER IS PROVIDED, THE PIPE SHALL BE COVERED AT LEAST 50mm THICK OVERLAY AND SHALL THEN BE PAVED WITH AT LEAST:

- 150mm REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICLE TRAFFIC:
- 75mm THICKNESS OF BRICK OR 100mm OF CONCRETE PAVING WHERE SUBJECT TO LIGHT VEHICLE TRAFFIC; OR
- 50mm THICK BRICK OR CONCRETE PAVING WHERE NOT SUBJECT TO VEHICLE TRAFFIC.

CONNECTIONS TO STORMWATER DRAINS UNDER BUILDINGS: SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 6.2.8 OF AS3500.3-2021

ABOVE GROUND PIPEWORK:

SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 6 OF AS3500.3-2021

PIT SIZES AND DESIGN:

DEPTH (mm)	MINIMUM PIT SIZE (mm)
UP TO 450mm	450 x 450
450mm TO to 600mm	600 x 600
600mm TO 900mm	600 x 900
900mm TO 1500mm	900 x 900 (WITH STEP IRONS)
1500mm TO 2000mm	1200 x 1200 (with step irons)

ALL PIPES SHOULD BE CUT FLUSH WITH THE WALL OF THE PIT

PITS GREATER THAN 600mm DEEP SHALL HAVE A MINIMUM ACCESS OPENING OF 600 x 600mm

THE GRATED COVERS OF PITS LARGER THAN 600 x 600mm ARE TO BE HINGED TO PREVENT THE GRATE FROM FALLING INTO THE PIT.

THE BASE OF THE DRAINAGE PITS SHOULD BE AT THE SAME LEVEL AS THE INVERT OF THE OUTLET PIPE. RAINWATER SHOULD NOT BE PERMITTED TO POND WITHIN THE STORMWATER SYSTEM

TRENCH DRAINS:

CONTINUOUS TRENCH DRAINS ARE TO BE OF WIDTH NOT LESS THAN 150mm AND DEPTH NOT LESS THAN 100mm. THE BARS OF THE GRATING ARE TO BE PARALLEL TO THE DIRECTION OF SURFACE FLOW.

STEP IRONS:

PITS BETWEEN 1.2m AND 6m ARE TO HAVE STEP IRONS IN ACCORDANCE WITH AS1657. FOR PITS GREATER THAN 6m OTHER MEANS OF ACCESS MUST BE PROVIDED.

IN-SITU PITS:

IN-SITU PITS ARE TO BE CONSTRUCTED ON A CONCRETE BED OF AT LEAST 150mm THICK. THE WALLS ARE TO BE DESIGNED TO MEET THE MINIMUM REQUIREMENTS OF CLAUSE 7.5.5.1 OF AS3500.3-2021. PITS DEEPER THAN 1.8m SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE.

GRATES:

GRATES ARE TO BE GALVANISED STEEL GRID TYPE. GRATES ARE TO BE OF HEAVY-DUTY TYPE IN AREAS WHERE THEY MAY BE SUBJECT TO VEHICLE LOADING.

SERVICES SHOWN ON THIS DOCUMENTATION ARE SHOWN IN THE STRATA U.N.O.



USE
AREAS INCLUDING FOOTWAYS, ACCESSIBLE ONLY TO PE CYCLISTS AND CLOSED TO OTHER TRAF
AREAS INCLUDING FOOTWAYS AND LIGHT TRACTOR PAT VEHICLES (EXCLUDING COMMERCIAL VEHICLES) O
MALLS AND AREAS OPEN TO SLOW-MOVING COMME
CARRIAGEWAYS OF ROADS AND AREAS OPEN TO COMM
GENERAL DOCKS AND AIRCRAFT PAVEME
DOCK AND AIRCRAFT PAVEMENTS SUBJECT TO HIGH
DOCKS AND AIRCRAFT PAVEMENTS SUBJECT TO VERY H



GENERAL NOTES DIMENSIONS SHOWN IN DRAWINGS ARE TO BE CONFIRMED ON SITE BEFORE COMMENCEMENT OF WORF WING TO BE READ IN CONJUNCTION WITH ARCHITECTS PLAN AMING TO BE NEAD IN CONSUMETOIN WITH ANOTHER OF DEAMS. EXISTING GROUND LINES & TREES ARE APPROXIMATE OULY, TO BE VERIFIED ON-SITE BY BUILDER. U WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH: ALL RELEVANT & CURRENT BUILDING CODES, ACTS & REGULATIONS ALL CURRENT AUSTRALIAN STANDARDS ALL LOCAL COUNCIL REGULATIONS AS WELL AS ALL DCP & LEP ASSOCIATED PYRIGHT INFORMATION: THE DRAWING IS THE COPYRIGHT OF 'QUANTUM ENGINEERS'. COPYING OR USING THIS DR WHOLE OR PART WITHOUT WRITTEN CONSENT INFRINGES COPYRIGHT.



DEVELOPER ENTITY PTY LTD ARCHITECT **ROSS HOWIESON ARCHITECTS**

CLIENT

GENERAL NOTES

- 1. FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.
- 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTS AND OTHER CONSULTANTS DRAWINGS. ANY DISCREPANCIES TO BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH WORK.
- 3. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH AS/NZS 3500.3:2021 STORMWATER DRAINAGE, BCA AND LOCAL COUNCIL POLICY/CONSENT/REQUIREMENTS.
- 4. ALL DIMENSIONS AND LEVELS TO BE VERIFIED BY BUILDER ON-SITE PRIOR TO COMMENCEMENT OF WORKS. THESE DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS NOR TO BE USED FOR SETOUT PURPOSES.
- 5. ALL SURVEY INFORMATION AND PROPOSED BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS.
- 6. THESE DRAWINGS DEPICT THE DESIGN OF SURFACE STORMWATER RUNOFF DRAINAGE SYSTEMS ONLY AND DO NOT DEPICT ROOF DRAINAGE OR SUBSOIL DRAINAGE SYSTEMS UNLESS NOTED OTHERWISE. THE DESIGN OF ROOF AND SUBSOIL DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF
- OTHERS. 7. ALL STORMWATER DRAINAGE PIPES ARE TO BE uPVC AT
- MINIMUM 1% GRADE UNLESS NOTED OTHERWISE. 8. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECT/BE AFFECTED BY THIS DESIGN PRIOR TO COMMENCEMENT OF WORKS.
- ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE OR EQUAL
- 10. THIS PLAN IS THE PROPERTY OF QUANTUM ENGINEERS AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM QUANTUM ENGINEERS

PLAN NOTES

- 1. ROOF DRAINAGE NOTE: AS 3500 ROOF DRAINAGE REQUIRES EAVES GUTTERS TO BE SIZED FOR 20 YEAR 5 MIN. STORM = 205mm/hr. FOR EAVES GUTTERS, AS 3500.3:2021 THEN HAS THE FOLLOWING REQUIREMENTS:
- 1.1. FOR TYPICAL STANDARD QUAD GUTTER WITH Ae = 6000mm² AND GUTTER SLOPE 1:500 AND STEEPER, THIS REQUIRES ONE DOWNPIPE PER 30m² ROOF AREA.
- 1.2. DOWNPIPES TO BE MINIMUM 90mm DIA. OR 100 x 50mm FOR GUTTERS SLOPE 1:500 AND STEPPER.
- 1.3. OVERFLOW METHOD TO FIGURE F.1 OF AS 3500.3:2021 IT IS THE RESPONSIBILITY OF THE PLUMBER AND / OR BUILDER TO COMPLY WITH THIS. THIS DRAWING SHOWS PRELIMINARY LOCATIONS / NUMBERS OF DOWNPIPES ONLY WHICH ARE TO BE VERIFIED BY **BUILDER / PLUMBER**
- 2. TREE PRESERVATION: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL IMPACT ON TREES FOR ANY WORKS SHOWN ON THIS DRAWING PRIOR TO THE COMMENCEMENT OF THOSE WORKS
- 3. ALL ROOF GUTTERS TO HAVE OVERFLOW PROVISION IN ACCORDANCE WITH AS 3500.3:2021 AND SECTIONS 3.5, 3.7.7 AND APPENDIX G OF AS 3500.3:2021
- 4. THIS DRAWING IS NOT TO BE USED FOR SET-OUT PURPOSES - REFER TO ARCHITECTURAL DRAWINGS
- 5. LOCATION OF SURFACE STORMWATER GRATED INLET PITS MAY BE VARIED OR NEW PITS INSTALLED AT THE CONSTRUCTION STAGE PROVIDED DESIGN INTENT OF THIS DRAWING IS MAINTAINED

0	GRATED TRENCH DRAIN		SURFACE INLET PIT
	ABSORPTION TRENCH		SURFACE INLET PIT (WITH ENVIROPOD 200 MICRON)
	PROPOSED ROOF GUTTER FALL		ACCESS GRATE
⊢● SP	PROPOSED DOWNPIPE SPREADER		(WITH ENVIROPOD 200 MICRON)
	STORMWATER PIPE 100mm DIA. MIN. UNO		ACCESS GRATE (TO HED PIT)
aaa	SUBSOIL PIPE	450 X 450	450 SQUARE INTERVAL
sw sw sw	EXISTING STORMWATER PIPE	SL 75.50	GRATE LEVEL = 75.50
O IR	INSPECTION RISER	IL 75.20	VERT LEVEL = RL 75.20
RWH	RAINWATER HEAD	DP 90	PROPOSED DOWNPIPE 90mm DIA. PVC

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	STORMWATER DRAWINGS LIST	17/01/2022
DRAWING No.	DRAWING TITLE	REVISION
D1	DETAILS, NOTES & LEGEND	E
D2	BASEMENT LEVEL PLAN	E
D3	SITE / GROUND FLOOR PLAN	E
D4	ROOF PLAN	E
D5	STORMWATER DETAILS	E
D6	SEDIMENT CONTROL PLAN & DETAILS	E

EDESTRIANS, PEDAL FFIC THS ACCESSIBLE TO OR LIVESTOCK ERCIAL TRAFFIC MERCIAL VEHICLES

ENTS H WHEEL LOADS HIGH WHEEL LOADS

DRAWING TITLE	APPROX TRUE NORTH	REVISION	DATE	DESCRIPTION
DETAILS, NOTES & LEGEND	N	A	10.08.2021	PRELIMINARY ISSUE FOR REVIEW
PROPOSED RESIDENTIAL FLAT BUILDING		В	19.08.2021	ISSUED FOR DA
		С	23.08.2021	ARCHITECTURAL UPDATES
Lot 2, 33 MACKENZIE STREET,		D	17.01.2022	REVISED ARCHITECTURALS
HOMEBUSH		E	17.01.2022	REVISED DRAINAGE

NOT FOR CONSTRUCTION

STORMWATER LEGEND

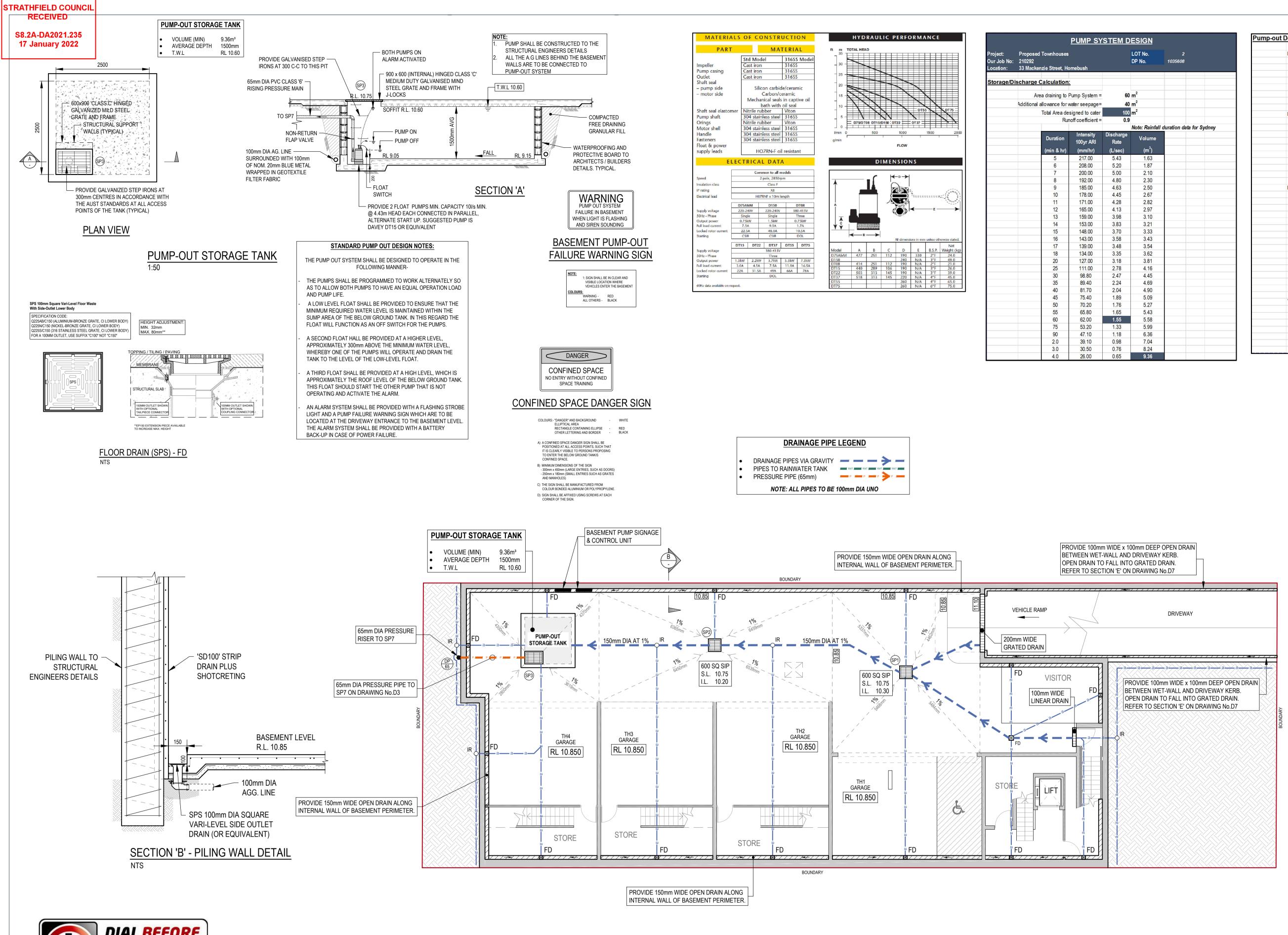
UNDERGROUND SERVICES LEGEND

- UNDERGROUND ELECTRICITY CABLES
- UNDERGROUND GASMAIN
- UNDERGROUND NBN NETWORK CABLE
- UNDERGROUND OPTUS CABLES
- UNDERGROUND SEWERMAIN
- UNDERGROUND TELSTRA COMMUNICATIONS CABLES UNDERGROUND SYDNEY WATER LINE



APPROXIMATE POSITION ONLY VIA DIAL BEFORE YOU DIG PLANS. WHERE CRITICAL TO DESIGN UNDERGROUND SERVICES SHOULD BE LOCATED BY GROUND PENETRATING RADAR PRIOR TO DESIGN OR EXCAVATION.

DE	ESIGNED BY		CHECKED BY	No. IN SET	JOB NUMBER
	D.CHENG				040000
	D.CHENG	ISSUED FOR	R.ELTOBBAGI	6	210292
	D.CHENG	DA	SCALE - SIZE	REVISION	DRAWING No.
	D.CHENG	BR		_	D4
	D.CHENG			E	D1







GENERAL NOTES DIMENSIONS SHOWN IN DRAWINGS ARE TO BE CONFIRMED ON SITE BEFORE COMMENCEMENT OF WOR IOT SCALE OFF DRAWINGS. WING TO BE READ IN CONJUNCTION WITH ARCHITECTS PLANS. IRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTS PLANS. LL EXISTING GROUND LINES A TREES ARE APPROXIMATE ONLY, TO BE VERIFIED ON-SITE BY BUILDER LL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH:) ALL RELEVANT & CURRENT BUILDING CODES, ACTS & REGULATIONS) ALL CURRENT AUSTRALIAN STANDARDS) ALL LOCAL COUNCIL REGULATIONS AS WELL AS ALL DCP & LEP ASSOCIATED. "YRIGHT INFORMATION: THE DRAWING IS THE COPYRIGHT OF 'QUANTUM ENGINEERS'. COPYING OR USIN 'HOLE OR PART WITHOUT WRITTEN CONSENT INFRINGES COPYRIGHT.

APPROVED BY ROBERT ELTOBBAGI BE(Civil) MIEAust CPEng NER(1052208) RPEQ(25464) APEC Engineer IntPE(Aus) All

CLIENT DEVELOPER ENTITY PTY LTD

ARCHITECT

ROSS HOWIESON ARCHITECTS

DRAWING TITLE	APPROX TRUE NORTH	REVISION	DATE	DESCRIPTION	DESIGNED BY		CHECKED BY	No. IN SET	JOB NUMBER
BASEMENT LEVEL PLAN	N	A	10.08.2021	PRELIMINARY ISSUE FOR REVIEW	D.CHENG				040000
PROPOSED RESIDENTIAL FLAT BUILDING		В	19.08.2021	ISSUED FOR DA	D.CHENG	ISSUED FOR	R.ELTOBBAGI	6	210292
		С	23.08.2021	ARCHITECTURAL UPDATES	D.CHENG	DA	SCALE - SIZE	REVISION	DRAWING No.
Lot 2, 33 MACKENZIE STREET,		D	17.01.2022	REVISED ARCHITECTURALS	D.CHENG	DA	AS NOTED - A1		50
HOMEBUSH		E	17.01.2022	REVISED DRAINAGE	D.CHENG		ASNOTED-AT	E	D2

			 DIZZ	503	515	
		DOL	DT37 DT55 DT75	518	313	_
			DTSS			_
wailable on n	equest.		DT75			_
			0175			_
						_

		td Mod			Mode	
Impeller	C	ast iron		31655		
Pump casing	C	ast iron		31655		
Outlet	C	ast iron		31655		
Shaft seal						
- pump side		Silic	on carbid	le/ceran	nic	
- motor side			Carbon/c	eramic		
		Mecha	nical seals	in capt	ive oil	
		ł	oath with	oil seal		
Shaft seal elastor	ner N	litrile ru	bber	Viton		
Pump shaft	3	04 stain	ess stee	31655		
Orings	N	litrile ru	bber	Viton		
Motor shell	3	04 stain	less steel	316SS		
Handle	3	04 stain	less steel			
Fasteners			less steel	31655		
Float & power	_					
supply leads		HC	7RN-F oi	resista	nt	
11.5						
EI	LECT	RICA	L DAT/	4		
	·					
			mon to all m			
Speed		2	pole, 2850rp	nn		
nsulation class			Class F			
P rating			X8			
Electrical lead		H07	RNF x 10m le	ength		
	D754	6M	D150		0108	
Supply voltage	220-2	240V	220-240V	38	0-415V	
50Hz - Phase	Sin	gle	Single	_	hree	
Dutput power	0.75	kW	1.SkW	0	75kW	
Full load current	7.5		9.5A	_	1.7A	
Locked rotor current	22.		48.0A	_	0.5A	
Starting	CS	IR	CSIR		DOL	
	DT15	DT22	DT37	DT55	DT75	
Supply voltage			380-415V			
50Hz - Phase			Three			
	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	
					16.5A	
Output power Full load current	3.0A	4.5A	7.5A	11.9A		
		4.5A 31.5A	7.5A 49A DOL	11.9A 66A	78A	

DIMENSIONS Image: Colspan="2">Image: Colspan="2" Image: C	15 10 5 0 0 g/min	D75/DT	08 DT15/	D150 : D1	22 1000	DT 37	5	200
B All dimensions in mm unless otherwise state Model A B C D E B.5.P. Weight (I D75A&rM 477 251 112 190 330 2"F 240. D150 240 N/A 3"F 49.0	1		D I			15		052
Model A B C D E B.S.P. Net D75A&M 477 251 112 190 330 2"F 24.0 D150 240 N/A 3"F 49.0				法 《	8	<	— е –	\rightarrow
D75A&M 477 251 112 190 330 2"F 24.0 D150 240 N/A 3"F 49.0		€—_В						Net
D150 240 N/A 3"F 49.0					_			
		477	251	112				
DT08 414 251 112 190 N/A 2"F 21.0								

			<u>PUMP SY</u>	STEM D	ESIGN	
Project: Our Job No: Location:	210292	Townhouses nzie Street, Ho	omebush		LOT No. DP No.	1
Storage/Di	scharge (Calculation:				
	Are	a draining to F	Pump System =	60	m ²	-
			vater seepage=		m ²	
	la altoritar e		signed to cater	100		-
			off coefficient =	0.9	m	
		Nu		0.9	Note: Rainfall	dur
		-	Intensity	Discharge	NYNCHE (1891)	
		Duration	100yr ARI	Rate	Volume	
		(min & hr)	(mm/hr)	(L/sec)	(m ³)	
		5	217.00	5.43	1.63	
		6	208.00	5.20	1.87	
		7	200.00	5.00	2.10	
		8	192.00	4.80	2.30	
		9	185.00	4.63	2.50	
		10	178.00	4.45	2.67	
		11	171.00	4.28	2.82	
		12	165.00	4.13	2.97	
		13	159.00	3.98	3.10	
		14	153.00	3.83	3.21	
		15	148.00	3.70	3.33	
		16	143.00	3.58	3.43	
		17	139.00	3.48	3.54	
		18	134.00	3.35	3.62	
		20	127.00	3.18	3.81	
		25	111.00	2.78	4.16	
		30	98.80	2.47	4.45	
		35	89.40	2.24	4.69	
		40	81.70	2.04	4.90	
		45	75.40	1.89	5.09	
		50	70.20	1.76	5.27	
		55	65.80	1.65	5.43	
		60	62.00	1.55	5.58	
		75	53.20	1.33	5.99	
		90	47.10	1.18	6.36	
		2.0	39.10	0.98	7.04	
		3.0	30.50	0.76	8.24	
		4.0	26.00	0.65	9.36	

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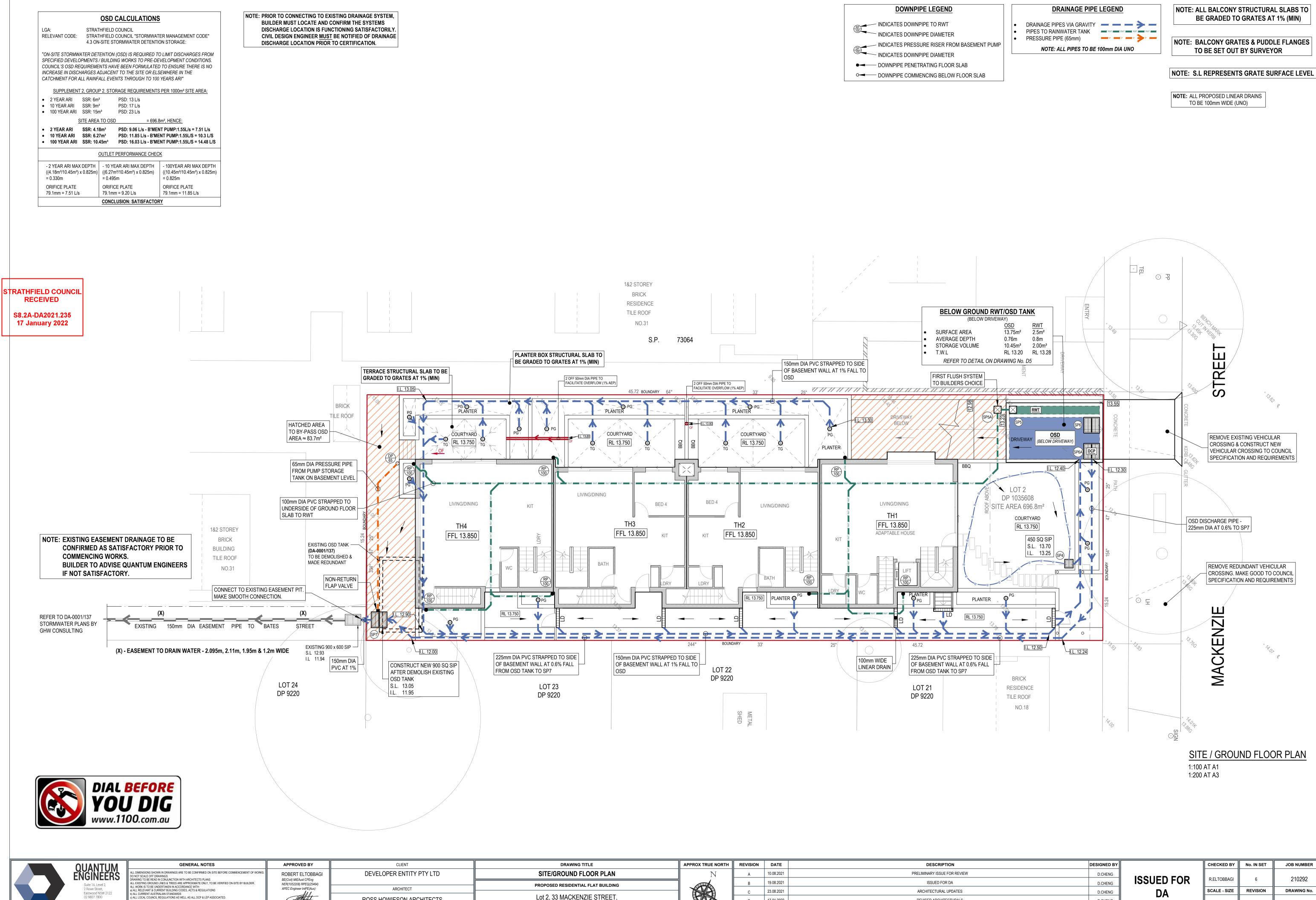
out Design:							
D-1-							
Data -	Dequired	PSD for pump	avetem -	1 5 5	l/sec		
	Required		system –	1.55	I/Sec		
		Invert lev	el of Pumps =	9.05			
			of outlet pit =	13.05			
			ength of pipe =	20	m		
		Hence,	Static Head =	4.00	m		
Discharg							
	From Vin	idex "Flow Cha	rts for PVC PI	be" manual,			
	Trial:	65mm (dia Class '12' F	V/C nine			
	mai.	00111110		ve pipe			
			Discharge =	1.55	l/s		
			Head loss =	1.5		idex 'Flow	Chart - PN4.5
		Pipe F	riction Head =	0.3			
			Velocity =	0.8	m/s (from V	inidex 'Flow	w Chart - PN4
		Ve	elocity Head =	0.03	m		
•							
Losses -							
	Form Losses	lue to fittings (F	rom \/inidox 'Tob	le 4, Resistance Coe	ficientel)		
	FOITH LOSSES (de to intilligs (r		le 4, Resistance coe	incients).		
	~ Enlargement	at pump pipe	connection d/E) =		0.41	
					loss =	0.41	m
	~ Head Loss		K=	0.33	loss =	0.33	m
	~ 90' elbow - 2	off	K=	1.1 x 2	loss =	2.20	m
	451 alle avec 6am	dia a bassa a bas		0.05	I want to	0.05	
	~ 45 elbow for	discharge pipe	; <u>к</u> =	0.35	loss =	0.35	m
	~ Flap Valve to	amp	K=	0.75	loss =	0.75	m
		- Fairib				5.75	
				Total Form Lo	sses (K) =	4.04	m
Total Los	ses = Static Hea	d + Pipe Frictio	on Head + Velo	city Head + For	n Losses		
		=	4.43	m			
	Provide 2 Day	vey DT22 pum					
			I/s capacity				
	at	4.43 out operating (m head				





BASEMENT LEVEL PLAN

1:100 AT A1 1:200 AT A3



IRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTS PLANS. LL EXISTING GROUND LINES A TREES ARE APPROXIMATE ONLY, TO BE VERIFIED ON-SITE BY BUILDER LL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH:) ALL RELEVANT & CURRENT BUILDING CODES, ACTS & REGULATIONS) ALL CURRENT AUSTRALIAN STANDARDS) ALL LOCAL COUNCIL REGULATIONS AS WELL AS ALL DCP & LEP ASSOCIATED. All

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ROSS HOWIESON ARCHITECTS

	DOWNPIPE LEGEND
RP	INDICATES DOWNPIPE TO RWT
100	INDICATES DOWNPIPE DIAMETER
(DP)	INDICATES PRESSURE RISER FROM BASEMENT PUMP
100	INDICATES DOWNPIPE DIAMETER
•-	DOWNPIPE PENETRATING FLOOR SLAB
0-	DOWNPIPE COMMENCING BELOW FLOOR SLAB

DRAWING TITLE	APPROX TRUE NORTH	REVISION	DATE	DESCRIPTION
SITE/GROUND FLOOR PLAN	N	А	10.08.2021	PRELIMINARY ISSUE FOR REVIEW
PROPOSED RESIDENTIAL FLAT BUILDING		В	19.08.2021	ISSUED FOR DA
		С	23.08.2021	ARCHITECTURAL UPDATES
Lot 2, 33 MACKENZIE STREET,		D	17.01.2022	REVISED ARCHITECTURALS
HOMEBUSH		E	17.01.2022	REVISED DRAINAGE

D.CHENG

D.CHENG

AS NOTED - A1

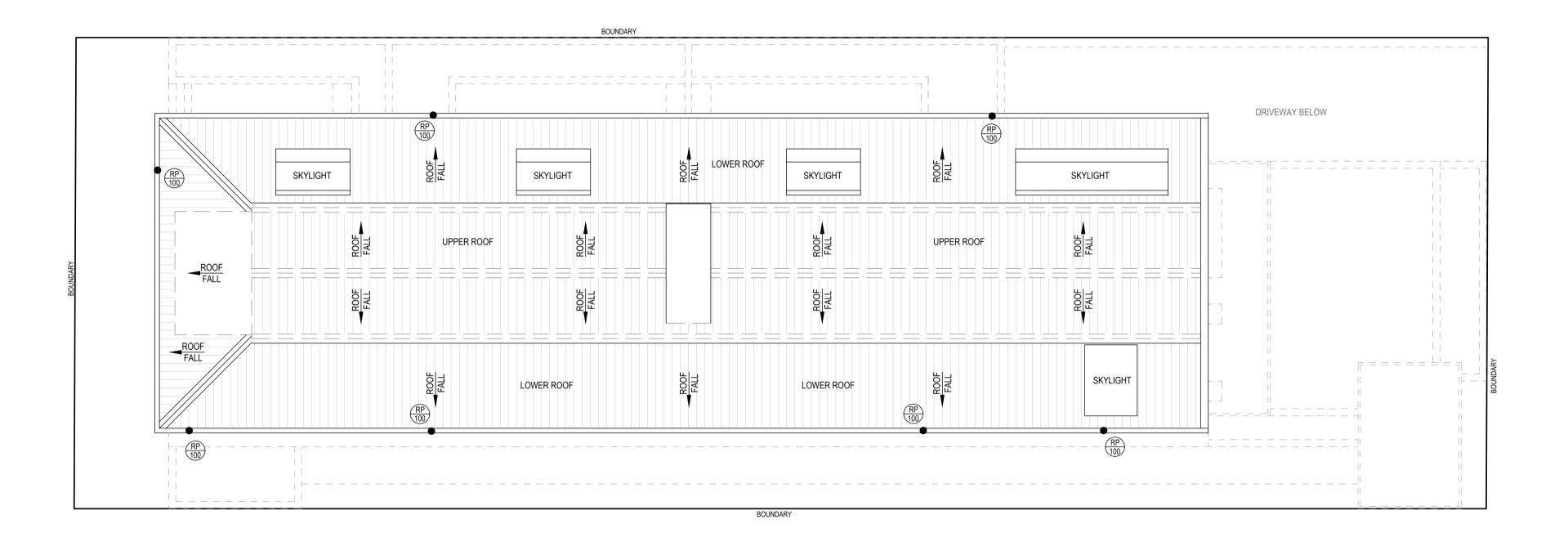
D3

NOTE: BALCONY GRATES & PUDDLE FLANGES

NOTE: S.L REPRESENTS GRATE SURFACE LEVEL

STRATHFIELD COUNCIL RECEIVED S8.2A-DA2021.235

17 January 2022





ALL DIMENSIONS SHOWN IN DO NOT SCALE OF DRAWIN DRAWING TO BE READ IN CO ALL EXISTING GROUND LINK ALL WORK IS TO BE UNDER a ALL RELEVANT & CURREN D ALL CREEVANT & CURREN D ALL CURRENT AUSTRALLA D 3807 7800 admin@quantumengineers.com.au quantumengineers.com.au

ALL DIMENSIONS SHOWN IN DRAWINGS ARE TO BE CONFIRMED ON SITE BEFORE COMMENCEMENT OF WORKS. DO NOT SCALE OFF DRAWINGS. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTS PLANS ALL EXISTING GROUND LINES & TREES ARE APPROXIMATE ONLY, TO BE VERIFIED ON-SITE BY BUILDER. ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH: a) ALL RELEVANT & CURRENT BUILDING CODES, ACTS & REGULATIONS b) ALL CURRENT AUSTRALIAN STANDARDS c) ALL LOCAL COUNCIL REGULATIONS AS WELL AS ALL DCP & LEP ASSOCIATED. COPYRIGHT INFORMATION: THE DRAWING IS THE COPYRIGHT OF 'QUANTUM ENGINEERS': COPYING OR USING THIS DRAWING IN WHOLE OR PART WITHOUT WRITTEN CONSENT INFRINGES COPYRIGHT.

GENERAL NOTES

APPROVED BY ROBERT ELTOBBAGI BE(Civil) MIEAUSI CPEng NER(1052208) RPEQ(25464) APEC Engineer IntPE(AUS)

CLIENT DEVELOPER ENTITY PTY LTD

ARCHITECT

ROSS HOWIESON ARCHITECTS

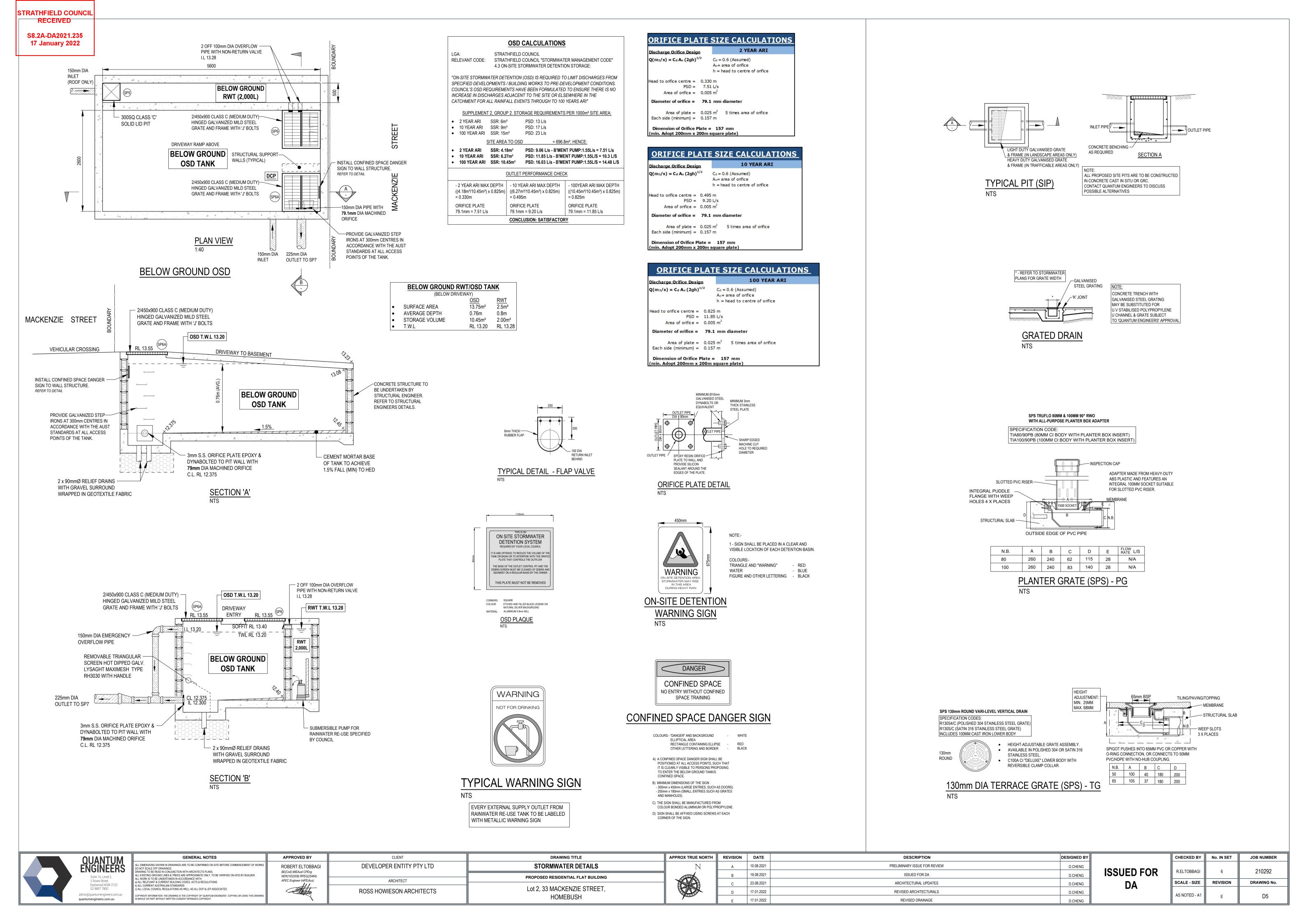
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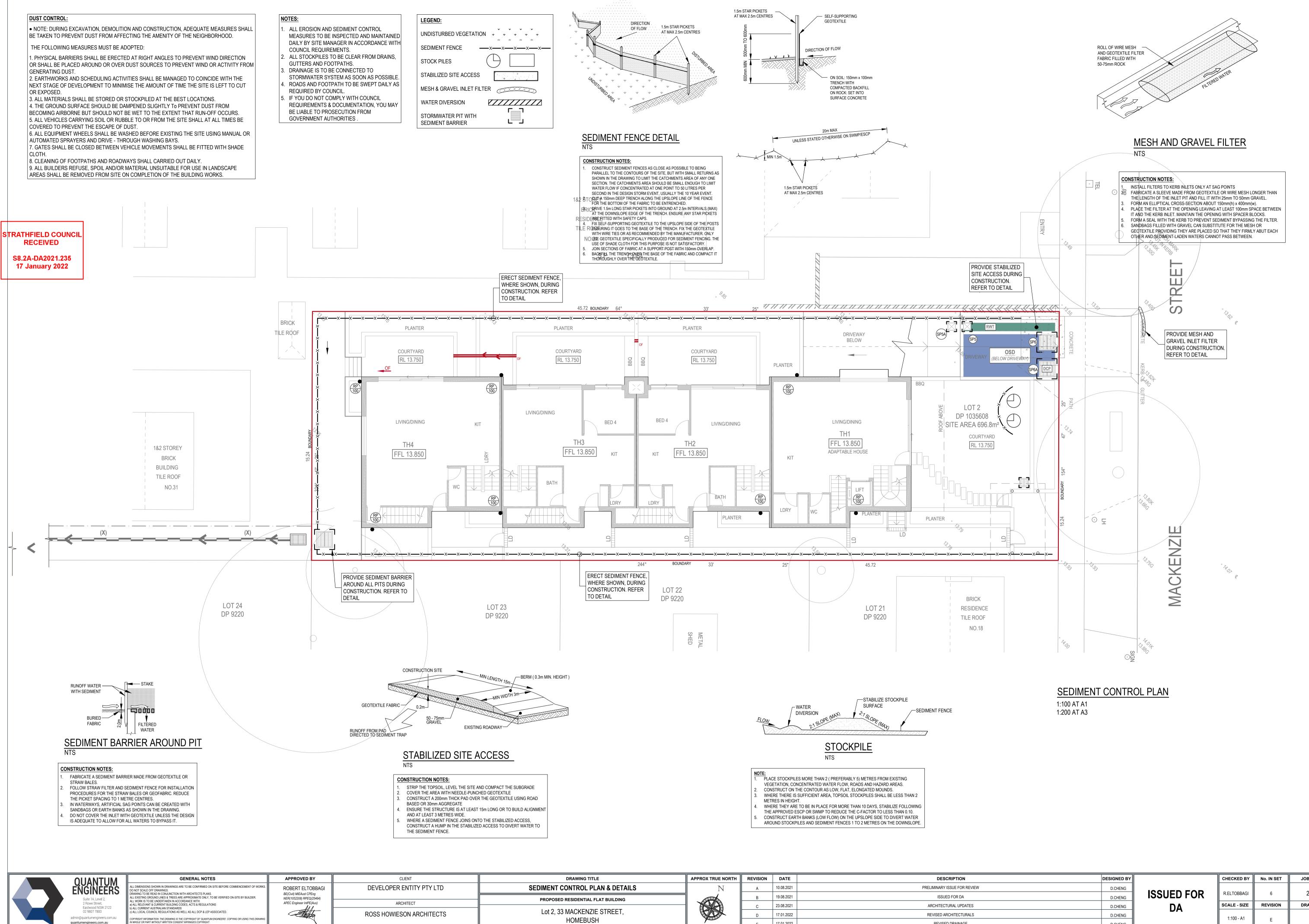




ROOF PLAN 1:100 AT A1 1:200 AT A3

DESIGNED BY		CHECKED BY	No. IN SET	JOB NUMBER
D.CHENG				040000
D.CHENG	ISSUED FOR	R.ELTOBBAGI	6	210292
D.CHENG	DA	SCALE - SIZE	REVISION	DRAWING No.
D.CHENG	BA	AS NOTED - A1	_	
D.CHENG		AGINGTED-AT	E	D4





DRAWING TITLE	APPROX TRUE NORTH	REVISION	DATE	DESCRIPTION	DESIGNED BY		CHECKED BY	No. IN SET	JOB NUMBER
SEDIMENT CONTROL PLAN & DETAILS	N	A	10.08.2021	PRELIMINARY ISSUE FOR REVIEW	D.CHENG				040000
PROPOSED RESIDENTIAL FLAT BUILDING		В	19.08.2021	ISSUED FOR DA	D.CHENG	ISSUED FOR	R.ELTOBBAGI	6	210292
		С	23.08.2021	ARCHITECTURAL UPDATES	D.CHENG	DA	SCALE - SIZE	REVISION	DRAWING No.
Lot 2, 33 MACKENZIE STREET,		D	17.01.2022	REVISED ARCHITECTURALS	D.CHENG	DA	1:100 - A1		DC
HOMEBUSH			E 17.01.2022 REVISED DRAINAGE	REVISED DRAINAGE	D.CHENG		1.100 - AT	E	D6