STORMWATER MANAGEMENT PLAN **PROPOSED DUAL OCCUPANCY S4.55 No.8 CLERMONT AVENUE, RYDE**

GENERAL NOTES:

- THESE PLANS REMAIN THE PROPERTY OF NY CIVIL ENGINEERING PTY LTD AND ARE SUBJECT TO COPYRIGHT
- ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED. ALL REDUCED LEVELS (SURFACE LEVELS, INVERT LEVELS) AND CHAINAGES ARE IN METERS UNLESS OTHERWISE STATED. DO NOT SCALE OFF THE DRAWINGS, SCALES ARE AS SHOWN, USE FIGURED DIMENSIONS
- THIS PLAN IS TO BE READ IN JUNCTION WITH LATEST ARCHITECTURAL STRUCTURAL UTILITY AND LANDSCAPE PLANS IN ADDITION TO ANY 3 RELEVANT GEOTECHNICAL, SOIL CLASSIFICATION OR REF/ENVIRONMENTAL REPORTS. ENGINEER IS TO BE NOTIFIED OF ANY DISCREPANCIES QUOTED ON THIS PLAN.
- ALL WORKS SHALL BE CARRIED OUT TO LOCAL COUNCIL'S DEVELOPMENT CONTROL PLAN AND SPECIFICATIONS, AS/NZS 3500.3 AND B.C.A.
- ALL LEVELS SHALL RELATE TO THE ESTABLISHED BM, PM AND/OR LM. ALL EXISTING SERVICES ARE TO BE VERIFIED FOR LOCATION AND DEPTH PRIOR TO COMMENCEMENT OF ANY WORK, CONTRACTOR TO NOIFY DESIGNER OF ANY DISCREPANCIES OF SERVICE LEVELS QUIOTED ON THIS PLAN. ALL SURVEY INFORMATION, BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL 6. IMPACT ON TREES FOR ANY WORKS SHOWN ON THIS DRAWING PRIOR TO THE COMMENCEMENT OF WORKS. NO TREES SHALL BE REMOVED WITHOUT THE WRITTEN PERMISSION OF COUNCIL.
- THE CONTRACTOR SHALL TAKE ALL DUE CARE TO USE THE ABSOLUTE MINIMUM AREA FOR CONSTRUCTION AND THAT NO UNDUE DAMAGE IS DONE TO THE EXISTING VEGETATION
- THE CONTRACTOR SHALL COMPLY WITH CONDITIONS, AND SPECIFICATION OF COUNCIL AND ALL ACTS OF THE NSW EPA. 8
- 9. THE CONTRACTOR SHALL TAKE ALL REASONABLE CARE TO PROTECT EXISTING SERVICES. DAMAGED SERVICES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE
- 10. ALL NEW WORK IS TO MAKE A SMOOTH JUNCTION WITH EXISTING WORK
- SUITABLE WARNING SIGNS AND BARRICADES ARE TO BE PROVIDED IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AND AS DIRECTED BY THE RELEVANT AUTHORITY
- SERVICES SHOWN ARE INDICATIVE ONLY FROM AVAILABLE INFORMATION AND THE TIME OF SITE INVESTIGATION (IF ANY). THE BUILDER IS TO 12. NOTIFY ENGINEER OF ANY DISCREPANCIES OUOTED ON THIS PLAN
- RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION. FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS RESTORE DISTURBED 13. SURFACES TO PRE-EXISTING CONDITION AND COMPACT AS SPECIFIED.
- RESTORE ALL AUTHORITY OWNED AREAS TO COUNCIL AND/OR AUTHORITY STANDARD AND SPECIFICATION.
- THE WORK AS CONSTRUCTED WORKS SHALL BE INSPECTED BY THE ENGINEER, MINIMUM 48 HOURS NOTICE SHALL BE PROVIDED FOR ALL INSPECTION REQUESTS.
- THE DESIGN PLANS HEREIN ARE SUBJECT TO COUNCIL APPROVAL PRIOR TO CONSTRUCTION. 16.
- WORK AS CONSTRUCTED DRAWINGS TO BE REQUESTED AND RECEIVED IN CAD/.DWG FILE TYPE AND HARD COPY 'RED LINE' MARKUP FROM 17 CONSTRUCTOR FOR VERIFICATION AND CERTIFICATION.

ROOF STORMWATER DRAINAGE NOTES:

- ALL DOWN PIPES TO BE MINIMUM DN90 OR 100x50MM FOR GUTTERS SLOPE 1:500 AND STEEPER AS PER AS 3500.3 3.7.8
- 2. ALL ROOF GUTTERS TO HAVE OVERFLOW PROVISION IN ACCORDANCE WITH AS 3500.3 AND SECTIONS 3.5.3. 3.7.5 AND APPENDIX G OF AS 3500.3.
- ALL DOWNPIPES TO BE FITTED VERTICALLY TO THE SOLE OF EAVES GUTTERS, RAINHEAD AND/OR SUMP. 3.
- ALL DOWNPIPES TO DRAIN INTO RAINWATER TANK AND OR PIT PRIOR TO DISCHARGE OFFSITE UNLESS PRIOR APPROVAL IS OBTAINED FROM COUNCIL IN WRITING OR NOTED OTHERWISE ON THIS PLAN.
- ALL EAVES GUTTERS TO BE SIZED FOR ARI 20 AS PER AS 3500.3 3.5 AND APPENDIX H.
- ROOF DRAINAGE INSTALLATION TO BE IN ACCORDANCE TO AS 3500.3 SECTION 4.

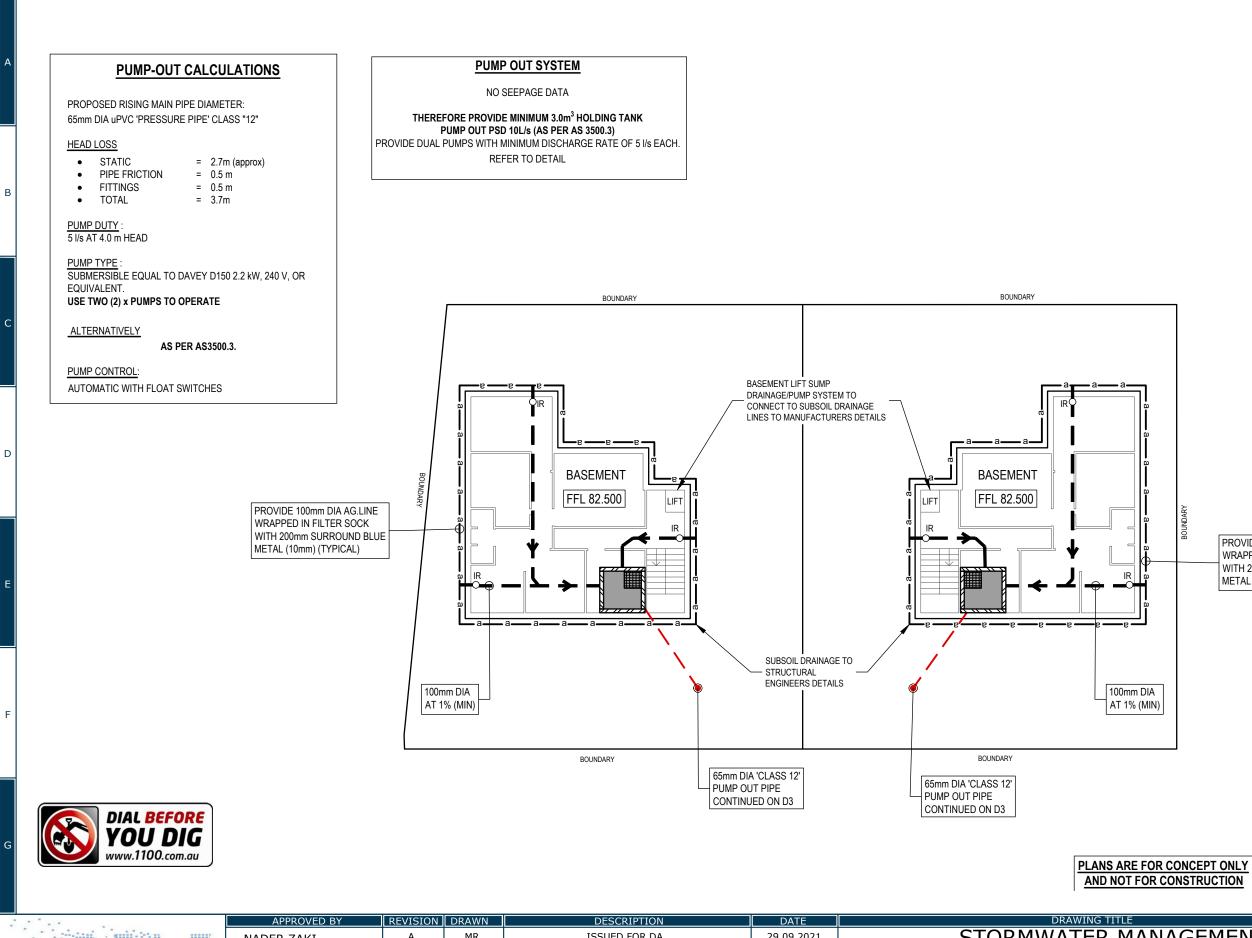
STORMWATER DRAINAGE NOTES:

PIPE SIZE:	SURFACE I	NLET PIT		
1. THE MINIMUM PIPE SIZE SHALL BE:	SURFACE I			
1.1. DN90 FOR ALL DOWNPIPES; 1.2. DN100 WHERE THE LINE ONLY RECEIVES ROOF STORMWATER RUNOFF, OR; 1.3. DN100 WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR UNPAVED AREAS.	(WITH ENVIROPOD		1221	
1.3. DIVIUU WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR UNPAVED AREAS.		S GRATE		
PIPE GRADE:	(WITH GROSS POLLU	JTANT TRAP)	ريون	
1. THE MINIMUM PIPE GRADE SHALL BE:	450 SQUARE II	NTERVAL	450 X	450
1.1. FOR DN100 - DN150 - 1.00% 1.2. FOR DN225 - 0.50%				
1.3. FOR DN300 - 0.45%	GRATE LEVE	L = 75.50	SL 75	.50
1.4. FOR DN375 - 0.35%		DI 75 00		00
STANDARD COVER:	INVERT LEVEL =	RL 75.20	IL 75	.20
MINIMUM PIPE COVER FOR PVC PIPES SHALL BE AS PER AS 3500.3 TABLE 6.2.5:	PROPOSED DO	OWNPIPE		7
1.1. NOT SUBJECT TO VEHICULAR LOADING:	90mm DIA. OR 100mm x 50	Omm MIN.	90)
1.1.1. WITHOUT PAVEMENT SINGLE DWELLINGS - 100mm	NATURAL GROUND F			
1.1.2. WITHOUT PAVEMENT OTHER THAN SINGLE DWELLINGS - 300mm 1.1.3. WITH PAVEMENT (BRICK/PAVERS) AND/OR UNREINFORCED CONCRETE - 100mm		SN LEVEL	× 10.	.00
1.2. SUBJECT TO VEHICULAR LOADING:				
1.2.1. ROADS (SEALED) - 600mm 1.2.2. ROADS (UNSEALED) - 750mm		STO	ORMWA	rer pi
1.2.3. OTHER THAN ROADS (WITH PAVEMENT) - 100mm 1.2.4. OTHER THAN ROADS (WITHOUT PAVEMENT) - 450mm				
1.2.4. OTHER THAN ROADS (WITHOUT PAVEMENT) - 4300000		PIT SIZE	ES AND DEPTHS:	
PIPE INSTALLATION		1.	PIT SIZES WILL BE A	AS FOLLOWS:
1. PIPES AND FITTINGS FOR STORMWATER DRAINAGE SHALL BE AS FOLLOWS:			DEPTH (mm)	MIN. PI
1.1. FOR PIPE SIZES UP TO DN225 - PVC WITH SOLVENT WELDED JOINTS (IN GROUND).			UP TO 450	3
 FOR PIPE SIZES GREATER THAN DN225 - RCP WITH RUBBER RING JOINTS. FOR LARGER PIPE DEPTHS AS SPECIFIED IN AS 3500.3 - RCP WITH RUBBER RING JOINTS. 			450 - 600 600 - 900	4
1.4. FOR PIPES AND FITTINGS FOR SUBSOIL DRAINAGE SHALL BE SLOTTED PVS WITH SOLVENT WELDED JOI			900 - 1200	6
 FOR GRATED DRAINS SHALL BE MINIMUM DN150 IN NON-TRAFFICABLE ZONES AND DN225 IN TRAFFICABLE ZON LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURING RECOMMENDATIONS AND: 	NES.		1200+	900x900 (V
3.1. AS 3725-1989 - LOADS ON BURIED CONCRETE PIPES		PIT DES		
3.2. AS 2566 - 1988 - BURIED FLEXIBLE PIPELINES		1.	TRENCH DRAINS: C	ONTINUOUS T
 AS 1597.2 - 1996 - PRECAST REINFORCED CONCRETE BOX CULVERTS AS 3500 - 1990 NATIONAL PLUMBING AND DRAINAGE CODE - PART 2 SANITARY PLUMBING AND SANITARY 	(DRAINAGE - SYDNEY WATER		TO THE DIRECTION	
REQUIREMENTS.		2.	STEP IRONS: PITS E	
4. ALLOW TO TEST ALL PIPES AND PITS TO MANUFACTURERS REQUIREMENTS.			OF ACCESS MUST E	
		3.	PLASTIC/PVC PITS:	PVC PITS WILL
CONNECTIONS TO STORMWATER SYSTEMS UNDER BUILDINGS: N ACCORDANCE WITH AS 3500.3 SECTION 9.2		4.	IN-SITU PITS: IN-SIT	TU PITS ARE T
NACCORDANCE WITH AS 3000.5 SECTION 9.2			MEET THE MINIMU	M REQUIREME
CONNECTIONS TO COUNCIL STORMWATER SYSTEMS:			CONCRETE.	
CONNECTION TO COUNCIL STORMWATER SYSTEM TO BE IN ACCORDANCE TO LOCAL COUNCIL DCP AND STANDARI	DS. NO CONNECTIONS TO BE MADE	5.	GRATES: GRATES A	RE TO BE GAL
UNTIL PROPER PERMIT/APPROVALS ARE OBTAINED FROM LOCAL COUNCIL IN WRITING.			TO VEHICLE LOADIN	NG.
		INCTAL		
WARNING:		<u>1115TALL</u> 1.	LATION NOTES: ALL PIPES INTO PIT	
EXISTING SERVICES SHOWN ON THESE PLANS ARE NOT GUARANTEED COMPLETE OR CORRECT AND FURTHER INFI	ORMATION IS REQUIRED FROM THE	1. 2.	ALL PIPES INTO PIT ALL PITS THAT ARE	
RELEVANT AUTHORITY AND FIELD INVESTIGATION AND ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRU	JCTION.	3.	GRATED COVERS C	
		4	BASE OF PIT TO BE	

- 4. BASE OF PIT TO BE SAME LEVEL OF INVERT OF OUTLET
- OUTLET PIPE FROM ANY PIT TO BE 20mm LOWER THAN INLET PIPE/S 5

A REAL PROPERTY AND	APPROVED BY	REVISION	DRAWN	DESCRIPTION	DATE	DRAWING TITLE	SHEET SIZE A3	JOB REFERENCE
	NADER ZAKI	А	MR	ISSUED FOR DA	29.09.2021		SHEET SIZE AS	E210095
	MIEAust CPEng NER	В	SR	ISSUED FOR S4.55	22.06.2022	DETAILS, NOTES & LEGEND	DESIGNED MR	L210055
	Λ					PROJECT TITLE	CHECKED NZ	DRAWING No.
	alki					PROPOSED DUAL OCCUPANCY		D1
						No.8 CLERMONT AVENUE	ISSUE B	No. IN SET
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LEGEND GRATED TRENCH DRAIN ABSORPTION TRENCH PROPOSED ROOF GUTTER FALL H (SP) PROPOSED DOWNPIPE SPREADER STORMWATER PIPE 100mm DIA, MIN, UNO SUBSOIL PIPE EXISTING STORMWATER PIPE INSPECTION RISER O IR RAINWATER HEAD RWH PIT/STRUCTURES NOTES: PIT SIZE (mm) 350x350 450x450 600x600 600x900 (WITH STEP IRONS) TRENCH DRAINS ARE TO BE MIN. DN150 AND MIN. 100mm DEPTH. THE BARS OF THE GRATE ARE TO BE PARALLEL FI OW I'M AND 6m ARE TO HAVE STEP IRONS IN ACCORDANCE WITH AS 1657 FOR PITS GREATER THAN 6m OTHER MEANS LL ONLY BE PERMITTED IF THEY ARE MAX. 450x450 AND MAX. 450mm DEPTH AS WELL AS BEING HEAVY DUTY. TO BE CONSTRUCTED ON A CONCRETE BED OF AT LEAST 150mm THICK. THE WALLS ARE TO BE DESIGNED TO IENTS OF CLAUSE 4.6.3 OF AS 3500.4. PITS DEEPER THAN 1.8m SHALL BE CONSTRUCTED WITH REINFORCED ALVANIZED STEEL GRID TYPE. GRATES ARE TO BE OF HEAVY-DUTY TYPE IN AREAS WHERE THEY MAY BE SUBJECT FLUSH WITH PIT WALL. AT GREATER THAN 600mm DEEP TO BE MIN, 600x600 PIT TER THAN 600mm TO BE HINGED



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	NADER ZAKI	A	MR	ISSUED FOR DA	29.09.2021	STORMWATER MANA
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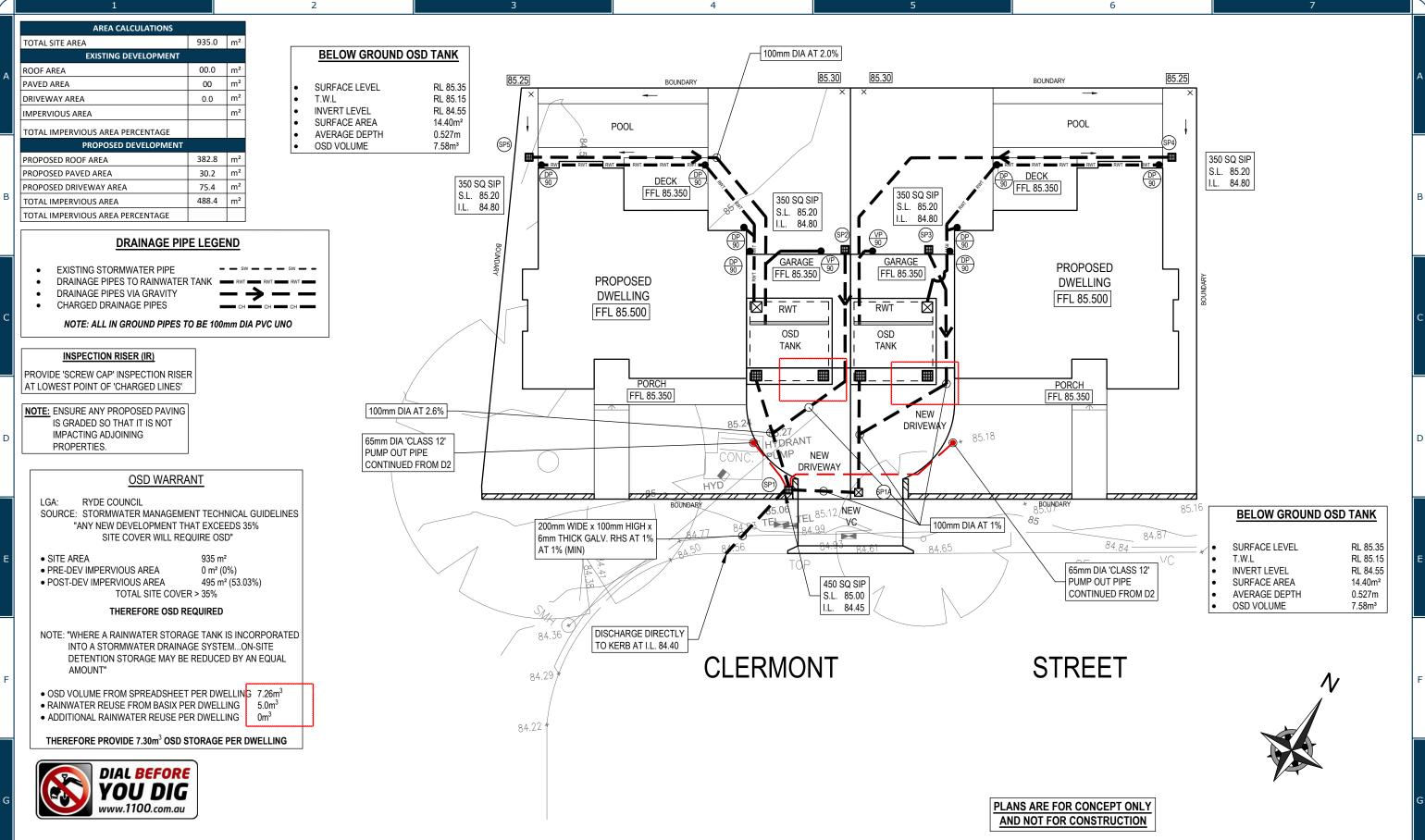
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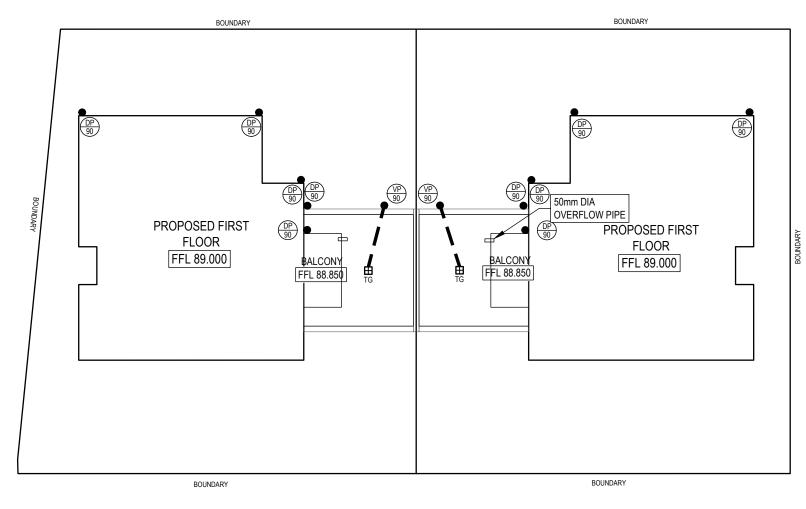
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PROVIDE 100mm DIA AG.LINE WRAPPED IN FILTER SOCK WITH 200mm SURROUND BLUE METAL (10mm) (TYPICAL)



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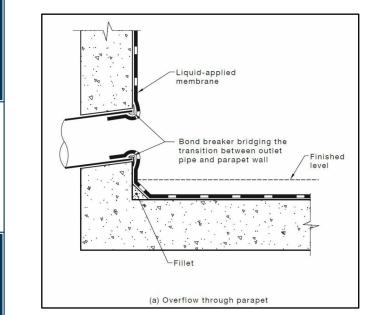
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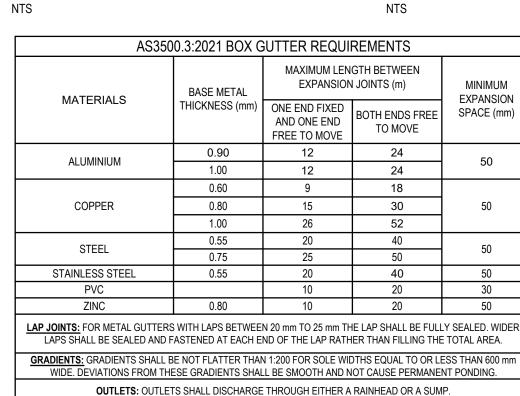


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BACLONY MENBRANE TERMINATION - AS4654.2

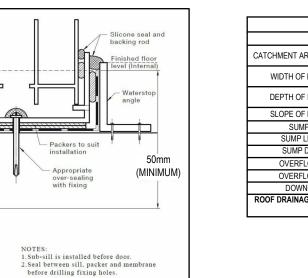
NOTE: For falls, see Clause 2.5.2.

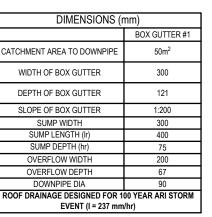
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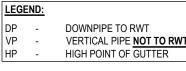
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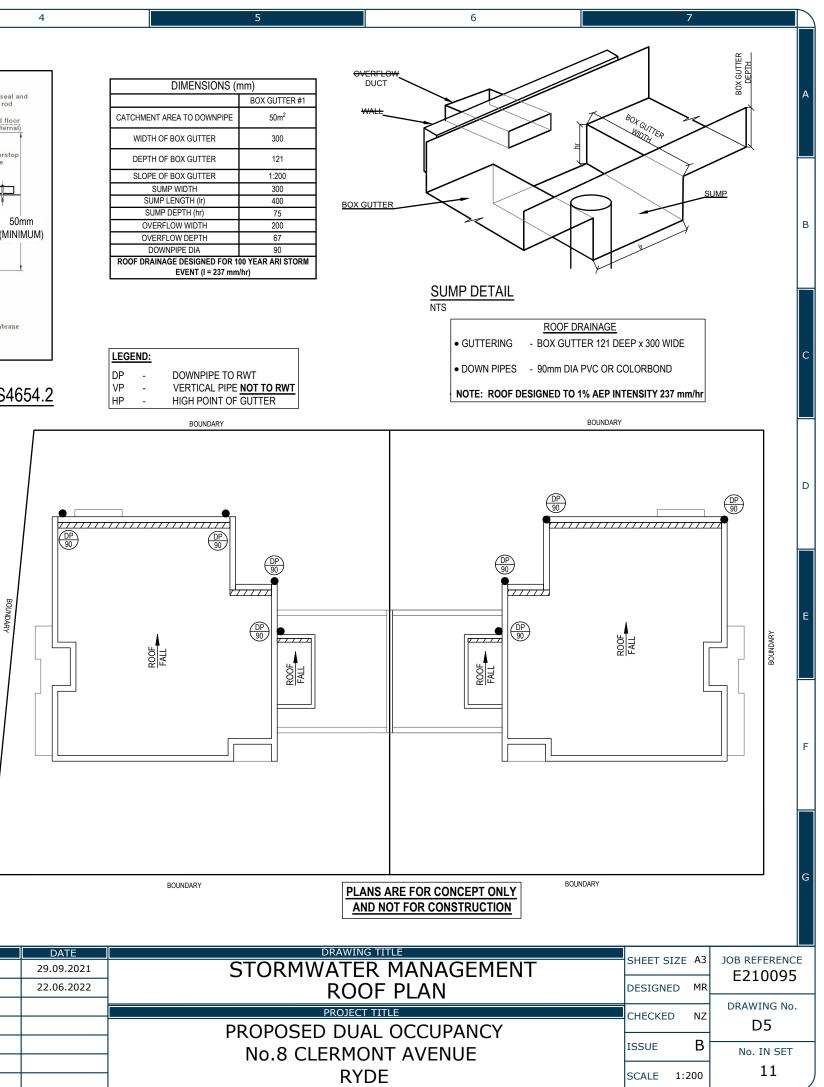
Finished floor level (External)



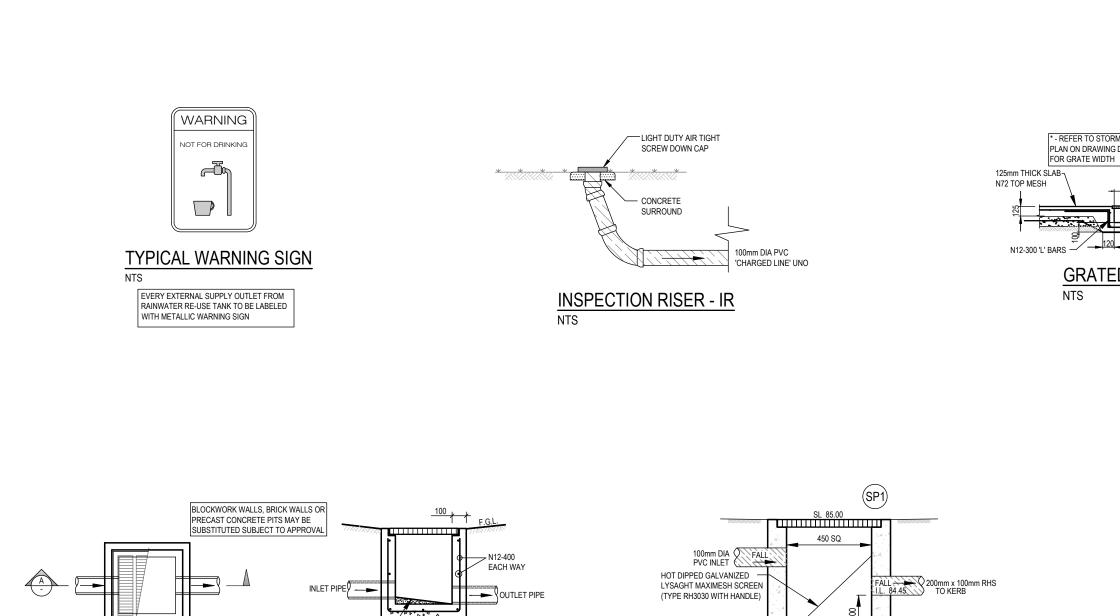


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VISION DRAWN DESCRIPTIO ISSUED FOR DA MR NADER ZAKI MIEAust CPEng NER SR **ISSUED FOR S4.55** в 0416 334 977 Т NY CIVIL ENGINEERING E W admin@nycivilengineering.com.au www.nycivilengineering.com.au



TYPICAL	PIT	(SIP)
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LIGHT DUTY GALVANISED GRATE & FRAME (IN LANDSCAPE AREAS ONLY) HEAVY DUTY GALVANISED GRATE & FRAME (IN TRAFFICABLE AREAS ONLY)

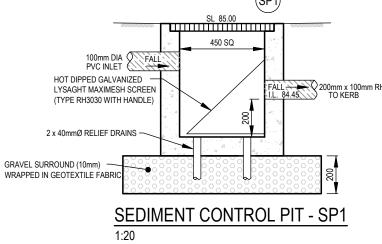
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CONCRETE BENCHING --BASE TO BE AS REQUIRED 75 MIN. THICK SECTION A

NOTE: ALL PROPOSED SITE PITS ARE TO BE CONSTRUCTED IN CONCRETE CAST IN SITU, PLASTIC OR BRICK PITS ARE NOT ACCEPTABLE HOWEVER, 'COUNCIL MAY CONSIDER PRE-CAST UNITS IF THE UNITS ARE PLACED ON A SOLID BASE OF GRAVEL OR CONCRETE OF 75mm THICK AND BACKFILL UP TO HALF THE DEPTH OF THE PIT SURROUND WITH CONCRETE.



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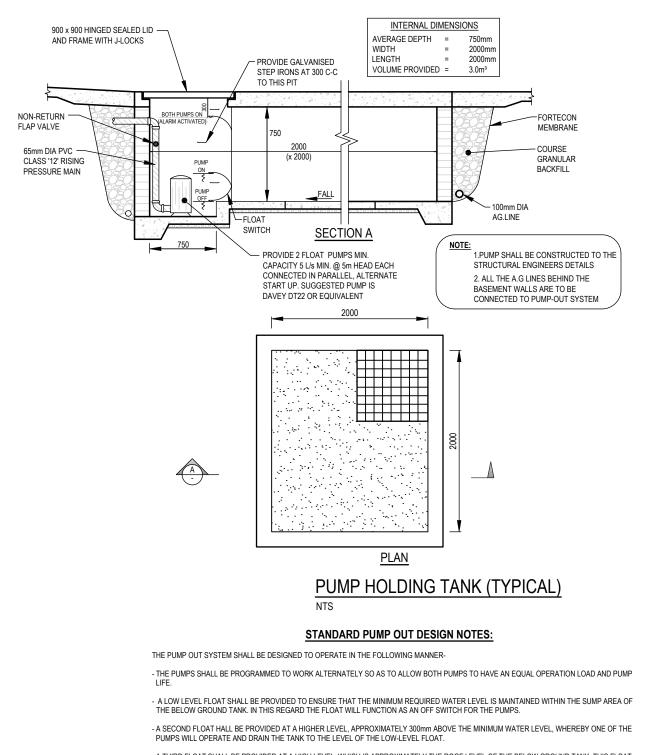
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RMWATER	
G D2 M DUTY GALVA	ANISED
GRATING	NOTE:
*K' JOINT	CONCRETE TRENCH WITH GALVANISED STEEL GRATING MAY BE SUBSTITUTED FOR U.V STABILISED POLYPROPYLENE U CHANNEL & GRATE SUBJECT TO ENGINEERS APPROVAL
N12-300 'U'-BARS CEN WITH 4-N12 LONGITU	TRAL

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GRATED DRAIN



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- A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

- AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

BIDIM A4 FABRIC FULL HEIGHT BETWEEN GRANULAR — BACKFILL & GENERAL BACKFILL / EXCAVATION BATTER

100mm DIA SLOTTED PVC LINE WITH GEOTEXTILE -SLEEVE AT 1% MIN GRADE. TO BE CONNECTED TO SUB SOIL DRAINAGE SYSTEM

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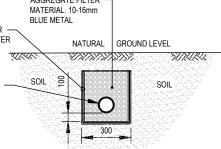
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SUB-SOIL DRAINAGE (AG.LNE) NTS	F
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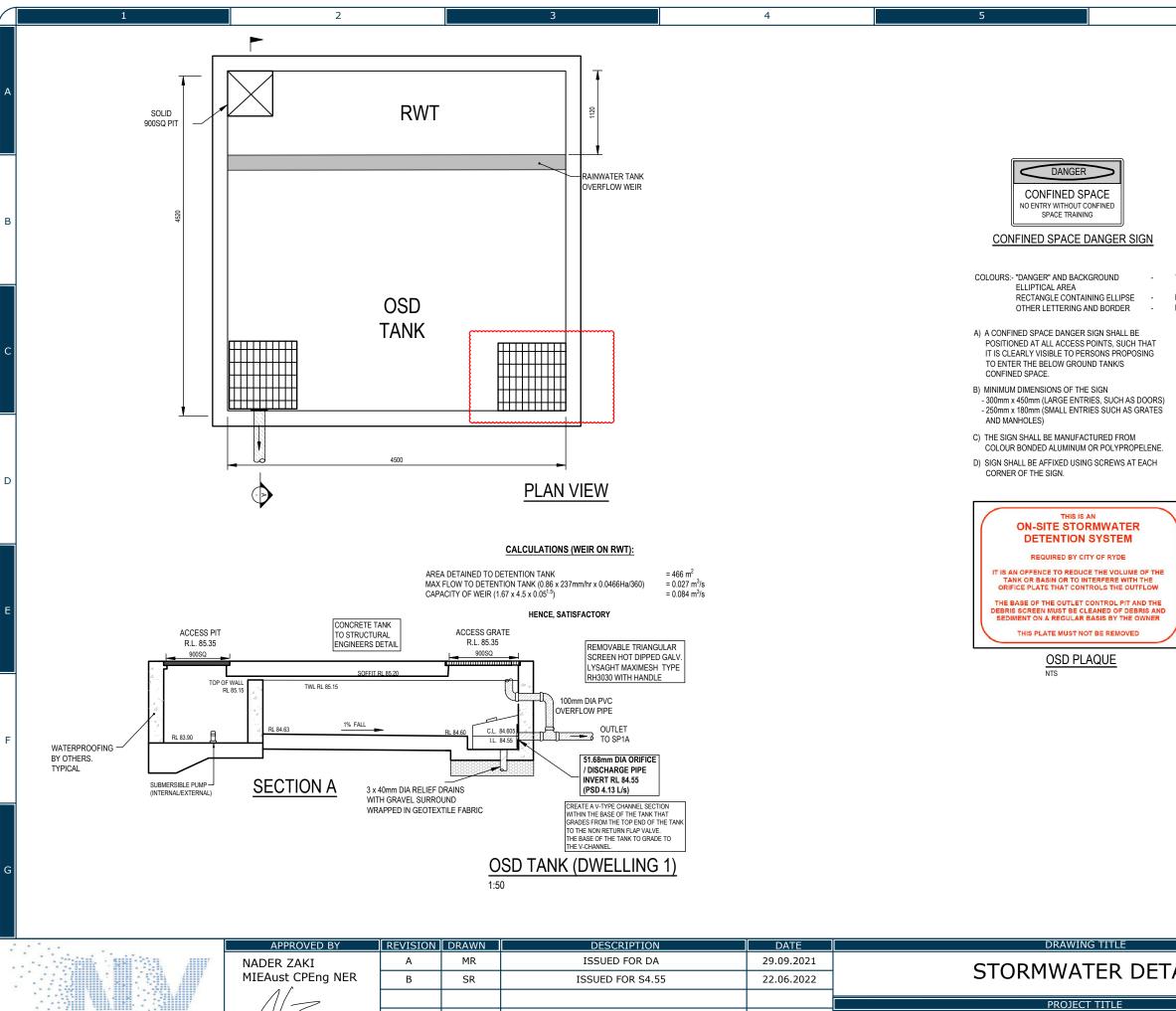
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NATURAL GROUND LEVEL 2112 XIXIX . SOIL SOIL



AGGREGATE FILTER -MATERIAL. 10-16mm



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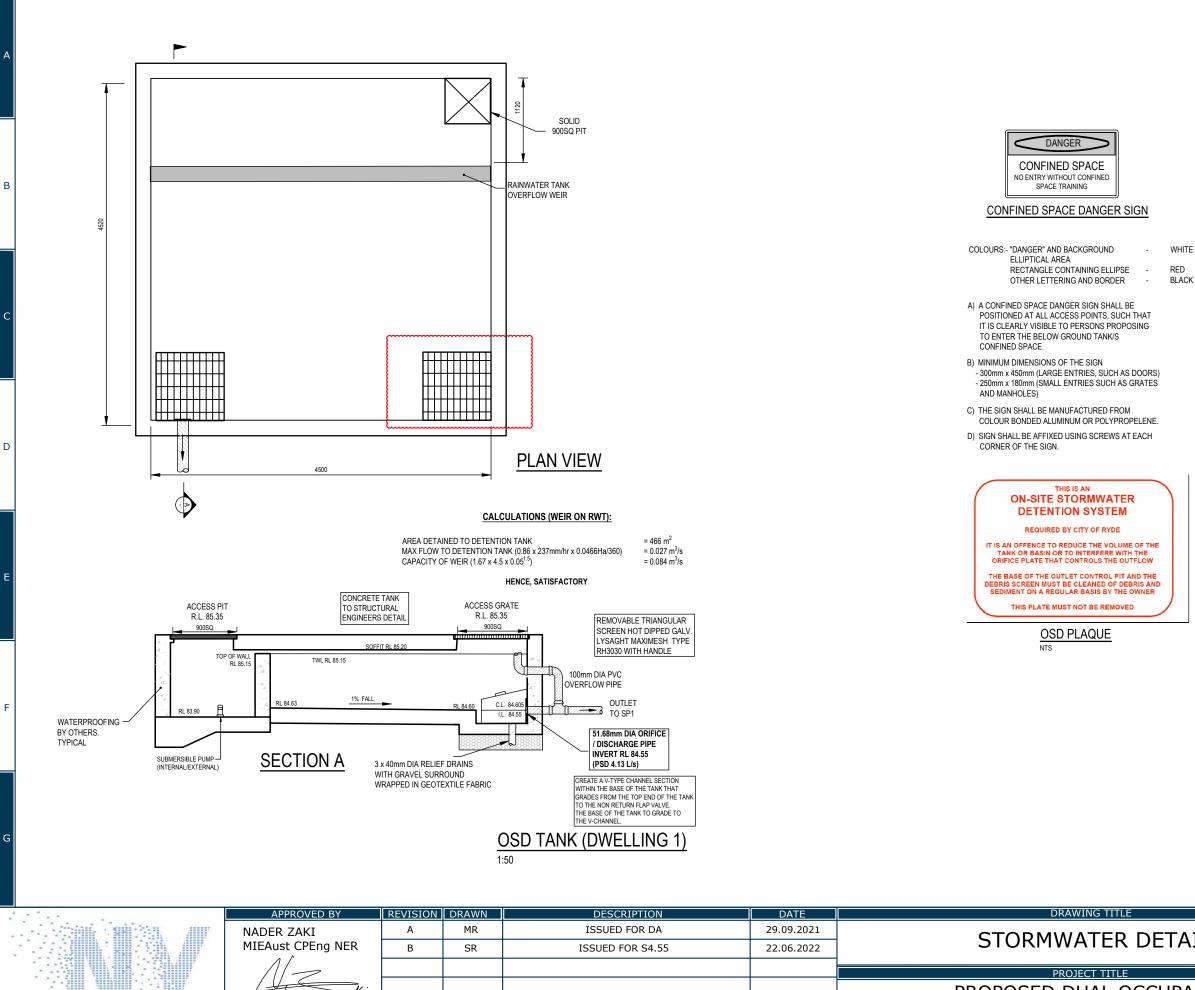
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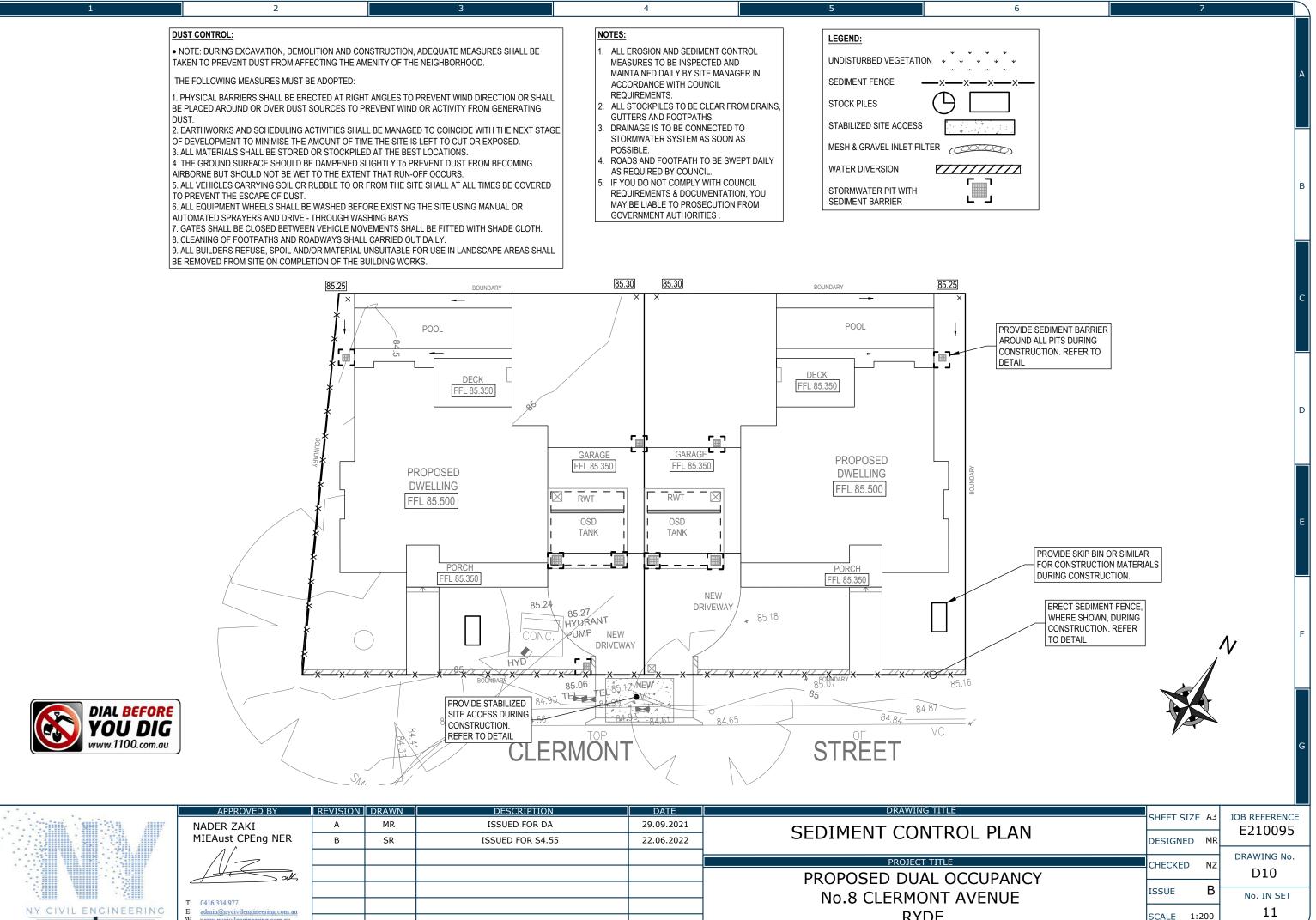
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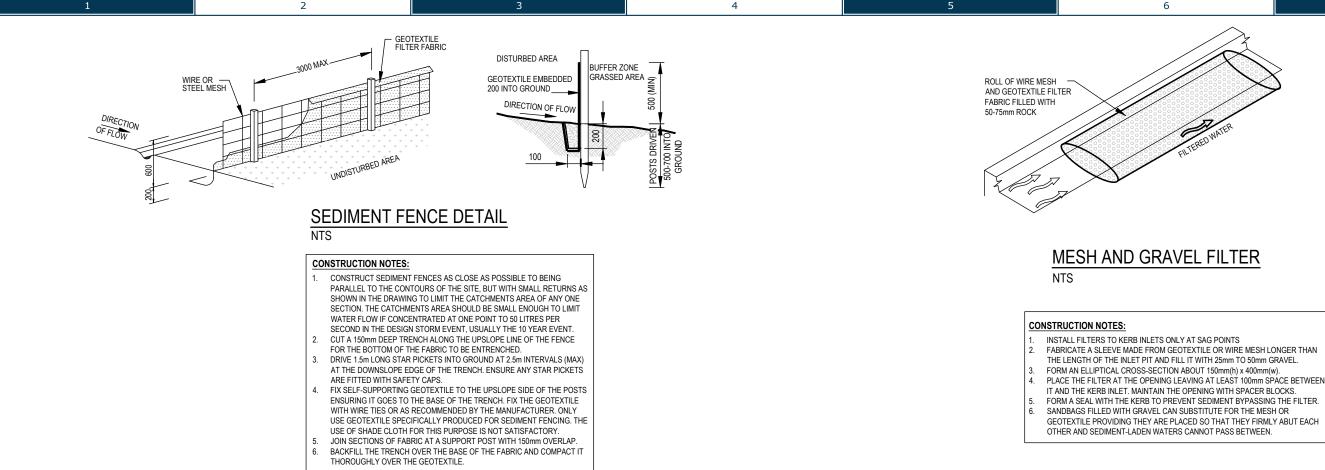
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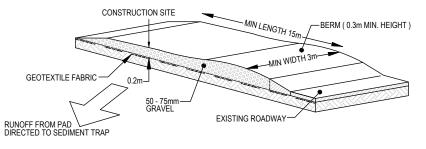
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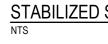
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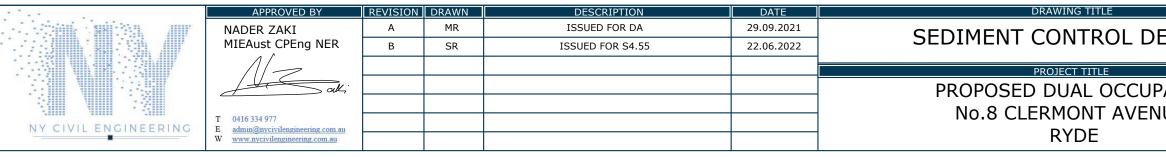


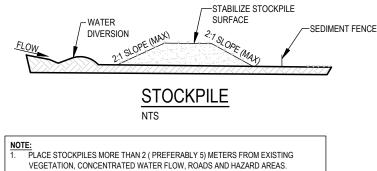


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CONSTRUCTION NOTES:					
1.	STRIP THE TOPSOIL, LEVE				
2.	COVER THE AREA WITH NE				
3.	CONSTRUCT A 200mm THIC				
	BASED OR 30mm AGGREG				
4	ENGURE THE STRUCTURE				

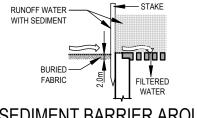
- AND AT LEAST 3 METERS WIDE.
- THE SEDIMENT FENCE.





CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.

- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METERS IN HEIGHT
- WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILIZE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10. CONSTRUCT EARTH BANKS (LOW FLOW) ON THE UPSLOPE SIDE TO DIVERT WATER
- AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METERS ON THE DOWNSLOPE



SEDIMENT BARRIER AROUND PIT NTS

CONSTRUCTION NOTES:

- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES
- FOLLOW STRAW FILTER AND SEDIMENT FENCE FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE
- THE PICKET SPACING TO 1 METRE CENTRES. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH
- SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING
- DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT

STABILIZED SITE ACCESS

L THE SITE AND COMPACT THE SUBGRADE EEDLE-PUNCHED GEOTEXTILE

- CK PAD OVER THE GEOTEXTILE USING ROAD ATE
- E IS AT LEAST 15m LONG OR TO BUILD ALIGNMENT
- WHERE A SEDIMENT FENCE JOINS ONTO THE STABILIZED ACCESS, CONSTRUCT A HUMP IN THE STABILIZED ACCESS TO DIVERT WATER TO

	SHEET SIZE A	
ETAILS	DESIGNED M	E210095
PANCY	CHECKED N	DRAWING No.
NUE	issue E	No. IN SET
-	SCALE AS NOTE	11