# **STORMWATER MANAGEMENT PLAN PROPOSED SENIORS LIVING DEVELOPMENT** No.37-43 HAY STREET, COLLAROY

### **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) INVERTIEVELS) AND CHAINAGES ARE 2 METERS UNLESS OTHERWISE STATED. DO NOT SCALE OFF THE DRAWINGS, SCALES ARE AS SHOWN, USE FIGURED DIMENSION
- THIS PLAN IS TO BE READ IN JUNCTION WITH LATEST ARCHITECTURAL, STRUCTURAL, UTILITY AND LANDSCAPE PLANS IN ADDITION TO ANY 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 NOTIFY DESIGNER OF ANY DISCREPANCIES OF SERVICE LEVELS QUOTED 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 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
- 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.
- 11. 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 QUOTED ON THIS PLAN.
- RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION. FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS RESTORE DISTURBED 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 NSPECTION REQUESTS.
- THE DESIGN PLANS HEREIN ARE SUBJECT TO COUNCIL APPROVAL PRIOR TO CONSTRUCTION.
- 17. WORK AS CONSTRUCTED DRAWINGS TO BE REQUESTED AND RECEIVED IN CAD/.DWG FILE TYPE AND HARD COPY 'RED LINE' MARKUP FROM

### **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
- 6. ROOF DRAINAGE INSTALLATION TO BE IN ACCORDANCE TO AS 3500.3 SECTION 4.

### STORMWATER DRAINAGE NOTES:

	SURFACE INLET PIT	
E MINIMUM PIPE SIZE SHALL BE: DN90 FOR ALL DOWNPIPES; DN100 WHERE THE LINE ONLY RECEIVES ROOF STORMWATER RUNOFF, OR; DN100 WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR UNPAVED AREAS.	SURFACE INLET PIT (WITH ENVIROPOD 200 MICRON)	
	ACCESS GRATE (WITH GROSS POLLUTANT TRAP)	
EMINIMUM PIPE GRADE SHALL BE: FOR DN100 - DN150 - 1.00%	450 SQUARE INTERVAL	450 X 450
FOR DN225 - 0.50% FOR DN300 - 0.45% FOR DN375 - 0.35%	GRATE LEVEL = 75.50	SL 75.50
COVER:	INVERT LEVEL = RL 75.20	IL 75.20
IMUM PIPE COVER FOR PVC PIPES SHALL BE AS PER AS 3500.3 TABLE 6.2.5: NOT SUBJECT TO VEHICULAR LOADING: WITHOUT PAVEMENT SINGLE DWELLINGS - 100mm	PROPOSED DOWNPIPE 90mm DIA. OR 100mm x 50mm MIN.	DP 90
WITHOUT PAVEMENT OTHER THAN SINGLE DWELLINGS - 300mm WITH PAVEMENT (BRICK/PAVERS) AND/OR UNREINFORCED CONCRETE - 100mm SUBJECT TO VEHICULAR LOADING:	NATURAL GROUND FINISHED DESIGN LEVEL	× [10.00]
ROADS (SEALED) - 600mm ROADS (UNSEALED) - 750mm OTHER THAN ROADS (WITH PAVEMENT) - 100mm	PIPE FROM ABOVE	•
OTHER THAN ROADS (WITHOUT PAVEMENT) - 450mm	SLAB PENETRATION	•

#### PIPE INSTALLATION

PIPE SIZE:

1.1. 12

1.3.

PIPE GRADE

11

1.2.

1.3. 1.4.

1.

1.1.

STANDARD COVER:

1.1.1

112

1.1.3.

1.2.2.

1.2.3.

1.2.4

1.

2

1.2. 1.2.1.

THE MINIMUM PIPE SIZE SHALL BE:

1. THE MINIMUM PIPE GRADE SHALL BE:

MINIMUM PIPE COVER FOR PVC PIPES SHA

PIPES AND FITTINGS FOR STORMWATER DRAINAGE SHALL BE AS FOLLOWS

- FOR PIPE SIZES UP TO DN225 PVC WITH SOLVENT WELDED JOINTS (IN GROUND). FOR PIPE SIZES GREATER THAN DN225 - RCP WITH RUBBER RING JOINTS.
- 1.3. FOR LARGER PIPE DEPTHS AS SPECIFIED IN AS 3500.3 - RCP WITH RUBBER RING JOINTS.
- FOR PIPES AND FITTINGS FOR SUBSOIL DRAINAGE SHALL BE SLOTTED PVS WITH SOLVENT WELDED JOINTS MINIMUM DN150.
- FOR GRATED DRAINS SHALL BE MINIMUM DN150 IN NON-TRAFFICABLE ZONES AND DN225 IN TRAFFICABLE ZONES.

#### 3. LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURING RECOMMENDATIONS AND:

- AS 3725-1989 LOADS ON BURIED CONCRETE PIPES 3.1.
- 3.2. AS 2566 - 1988 - BURIED FLEXIBLE PIPELINES
- 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 34 REQUIREMENTS 4. ALLOW TO TEST ALL PIPES AND PITS TO MANUFACTURERS REQUIREMENTS

CONNECTIONS TO STORMWATER SYSTEMS UNDER BUILDINGS

IN ACCORDANCE WITH AS 3500.3 SECTION 9.2

#### CONNECTIONS TO COUNCIL STORMWATER SYSTEMS

CONNECTION TO COUNCIL STORMWATER SYSTEM TO BE IN ACCORDANCE TO LOCAL COUNCIL DCP AND STANDARDS. NO CONNECTIONS TO BE MADE UNTIL PROPER PERMIT/APPROVALS ARE OBTAINED FROM LOCAL COUNCIL IN WRITING

#### WARNING

EXISTING SERVICES SHOWN ON THESE PLANS ARE NOT GUARANTEED COMPLETE OR CORRECT AND FURTHER INFORMATION IS REQUIRED FROM THE RELEVANT AUTHORITY AND FIELD INVESTIGATION AND ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

#### INSTALLATION NOTES:

CONCRETE

PIT SIZES AND DEPTHS:

PIT DESIGNS:

1. PIT SIZES WILL BE AS FOLLOWS:

DEPTH (mm)

UP TO 450

450 - 600

600 - 900

900 - 1200

1200+

OF ACCESS MUST BE PROVIDED

ALL PIPES INTO PITS TO BE CUT FLUSH WITH PIT WALL. 1.

TO VEHICLE LOADING

- 2.
- 4. BASE OF PIT TO BE SAME LEVEL OF INVERT OF OUTLET.

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	APPROVED BY	REVISION	DRAWN	DESCRIPTION	DATE	DRAWING TITLE		
	NADER ZAKI	P1	NZ	ISSUED FOR CO-ORDINATION	28.04.2023		SHEET SIZEA3	JOB REFERENCE E230197
	MIEAust CPEng NER	P2	NZ	ISSUED FOR CO-ORDINATION	08.06.2023	GENERAL NOTES	DESIGNED NZ	L230197
		Р3	NZ	ISSUED FOR CO-ORDINATION	26.06.2023	PROJECT TITLE		DRAWING No.
	J- Coulting	А	NZ	ISSUED FOR DA	27.06.2023	PROPOSED SENIORS LIVING DEVELOPMENT	CHECKED NZ	D1
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ING	www.nycivilengineering.com.au					COLLAROY	SCALE 1:200	**

OUTLET PIPE FROM ANY PIT TO BE 20mm LOWER THAN INLET PIPE/S

GRATED COVERS ON PITS GREATER THAN 600mm TO BE HINGED.

ALL PITS THAT ARE INSTALLED AT GREATER THAN 600mm DEEP TO BE MIN. 600x600 PIT.

STEP IRONS: PITS BETWEEN 1.2m AND 6m ARE TO HAVE STEP IRONS IN ACCORDANCE WITH AS 1657. FOR PITS GREATER THAN 6m OTHER MEANS

GRATES: GRATES ARE TO BE GALVANIZED STEEL GRID TYPE. GRATES ARE TO BE OF HEAVY-DUTY TYPE IN AREAS WHERE THEY MAY BE SUBJECT

PLASTIC/PVC PITS: PVC PITS WILL ONLY BE PERMITTED IF THEY ARE MAX. 450x450 AND MAX. 450mm DEPTH AS WELL AS BEING HEAVY DUTY.

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 4.6.3 OF AS 3500.4 PITS DEEPER THAN 1.8m SHALL BE CONSTRUCTED WITH REINFORCED

TRENCH DRAINS: CONTINUOUS TRENCH DRAINS ARE TO BE MIN. DN150 AND MIN. 100mm DEPTH. THE BARS OF THE GRATE ARE TO BE PARALLEL TO THE DIRECTION OF SURFACE FLOW.

PIT SIZE (mm)
350x350
450x450
600x600
600x900
(WITH STEP IRONS)

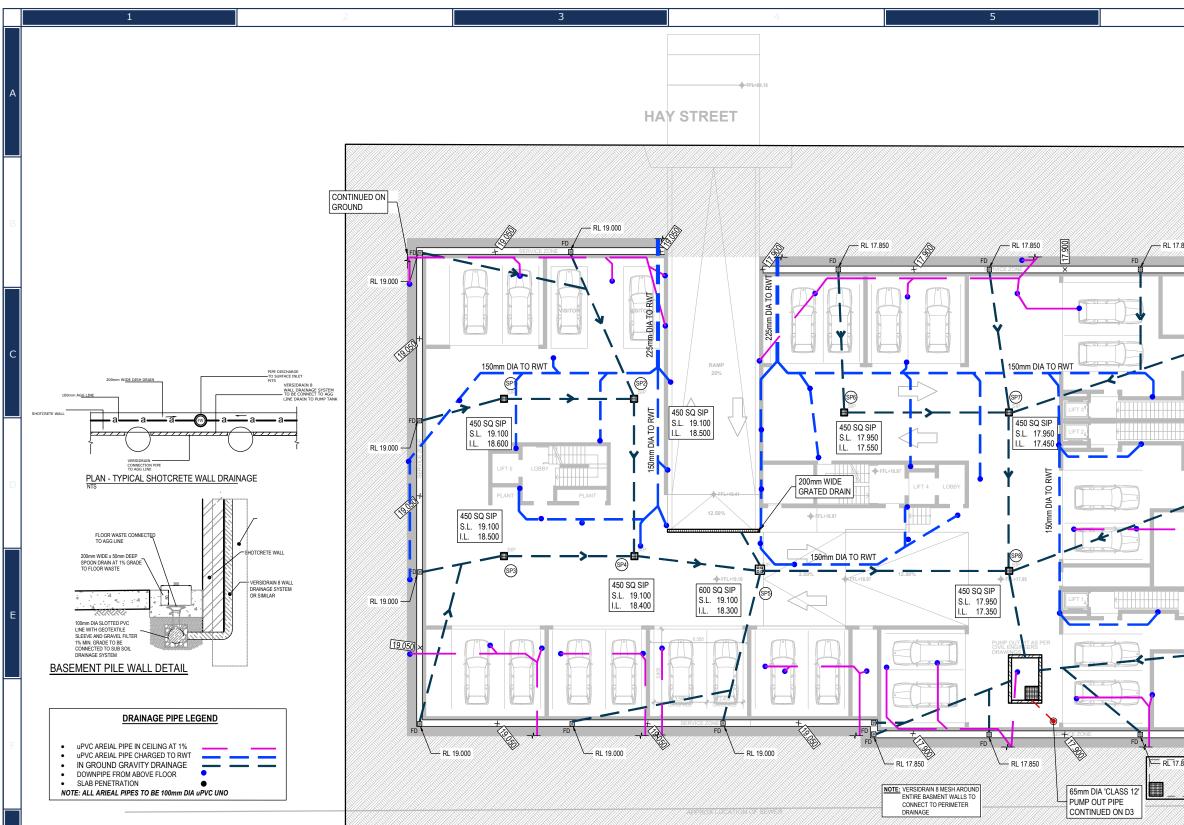
MIN. PIT SI

900x900 (WITH

### STORMWATER PIT/STRUCTURES NOTES:

0	GRATED TRENCH DRAIN
	ABSORPTION TRENCH
	PROPOSED ROOF GUTTER FALL
⊢● SP	PROPOSED DOWNPIPE SPREADER
	STORMWATER PIPE 100mm DIA. MIN. UNO
<u> </u>	SUBSOIL PIPE
<b>— —</b> sw <b>— –</b>	EXISTING STORMWATER PIPE
O IR	INSPECTION RISER
RWH	RAINWATER HEAD
	PIPE STRAPPED TO CEILING
	65mm CAST IN PIPE
	65mm CLASS 12 PRESSURE PIPE

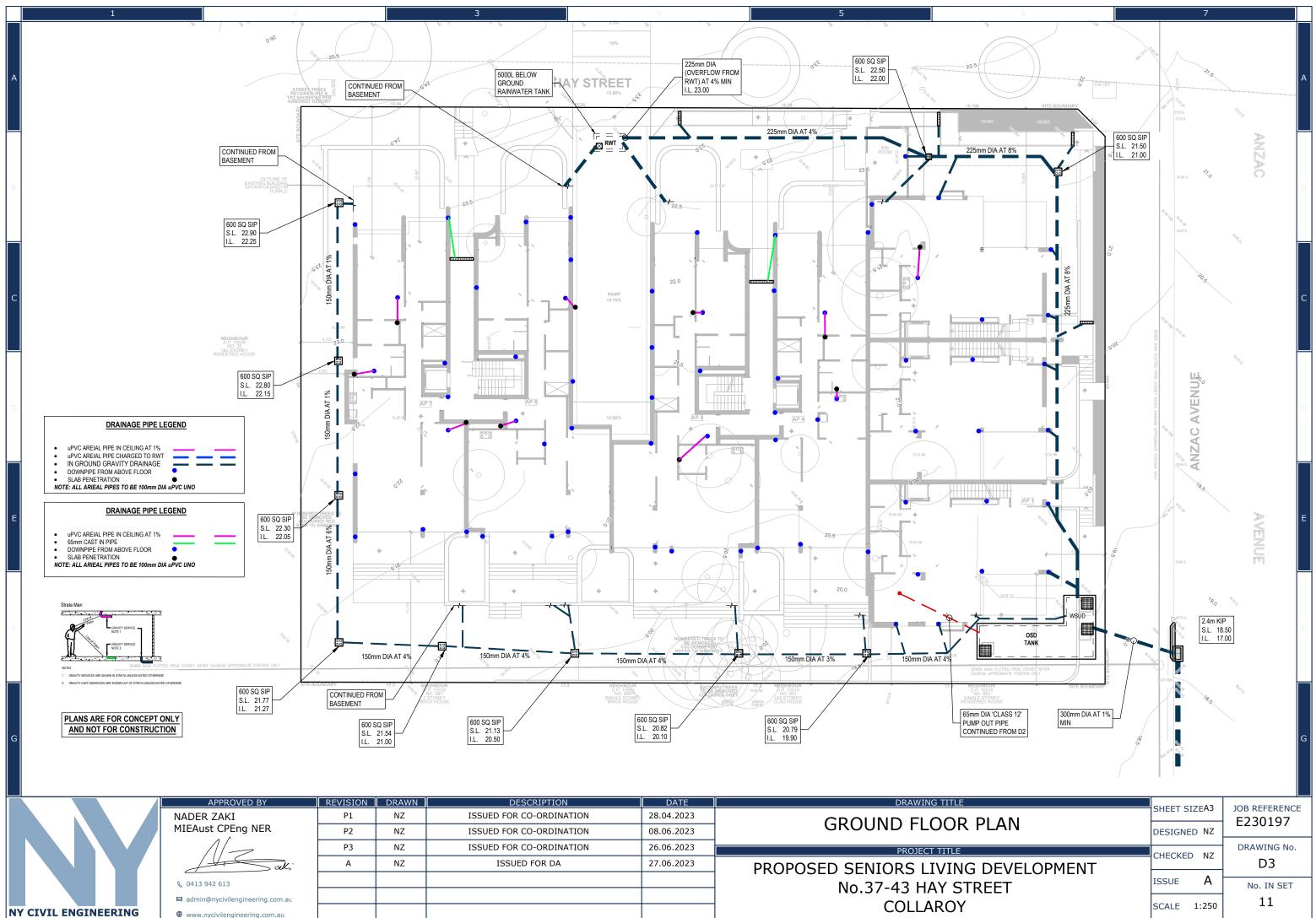
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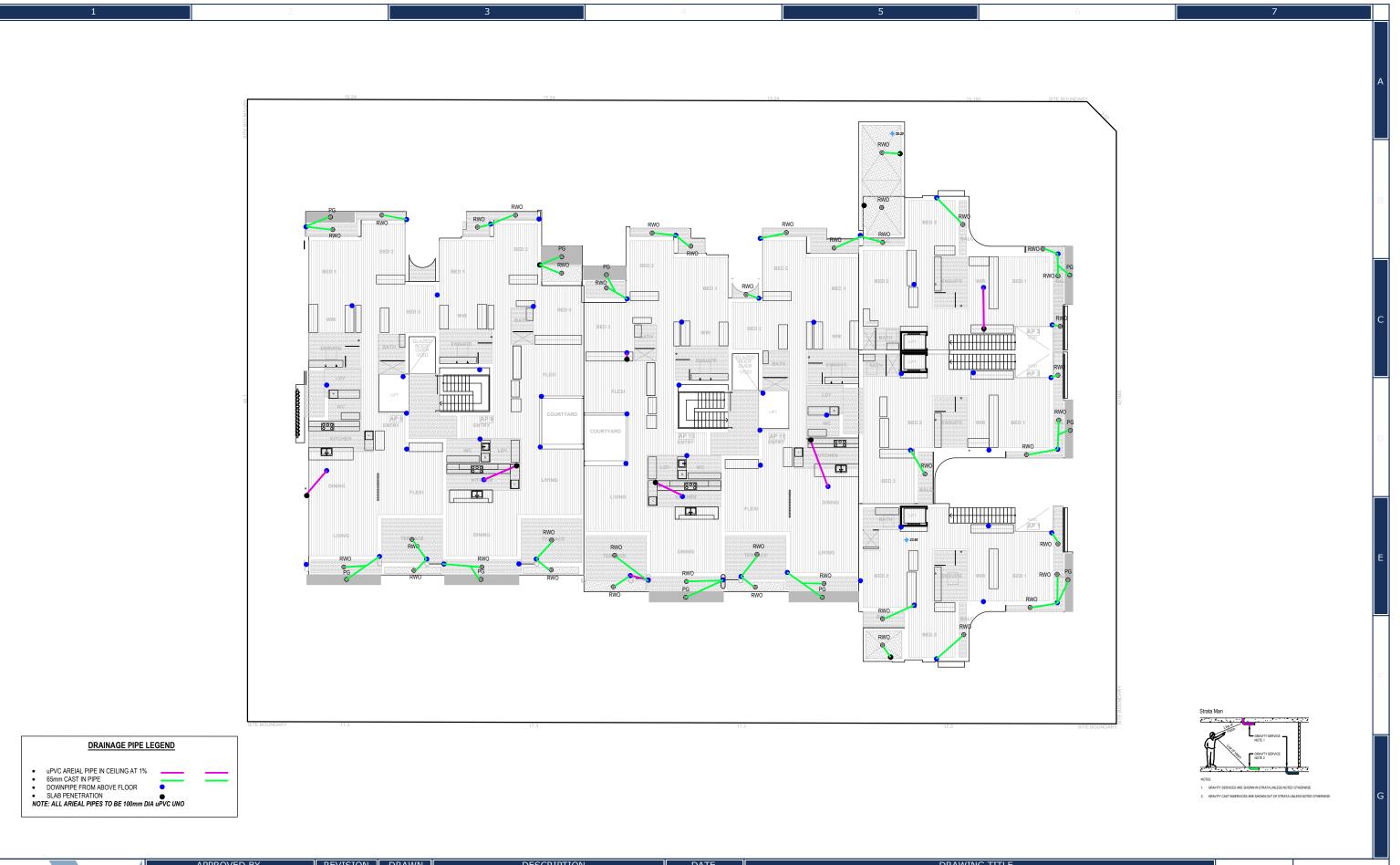
PLANS ARE FOR CONCEPT ONLY AND NOT FOR CONSTRUCTION

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	NADER ZAKI	P1	NZ	ISSUED FOR CO-ORDINATION	28.04.2023	BASEMENT PLAN
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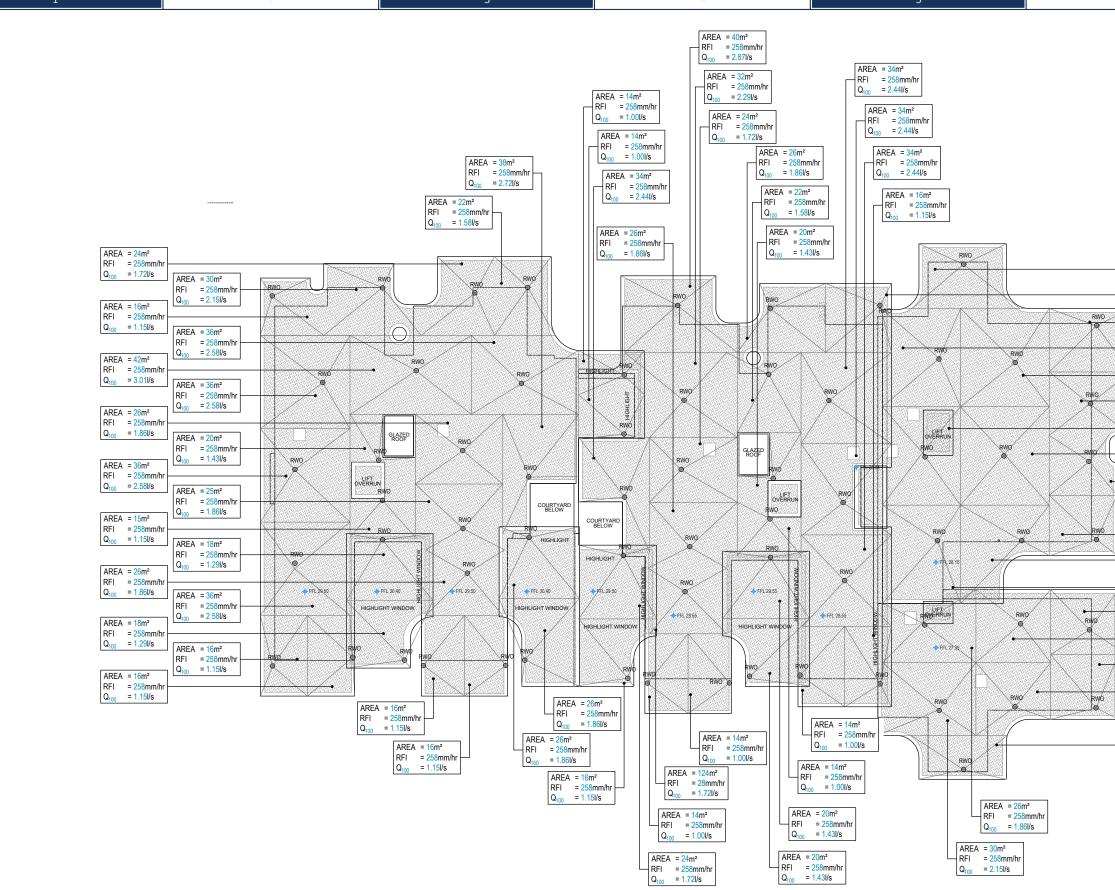
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	UT CALCULATIONS PER AS3500.3	A
65mm DIA uPVC           HEAD LOSS           • STATC           • STATC           • PPE FF           • FITTIN           • TOTAL           PUMP DUTY:           • StaTC           • SUBMERSIBLE           20 v, or EQU           USE WWO (1x)           ALTERNATIVE	PRESSURE PIPE' CLASS '12' = 3.00 m = 0.5 m = 0.5 m = 0.5 m = 4.0 m EAD EQUAL TO DAVEY D150 2.2 kW, VALENT: UNITS TO OPERATE <u>Y</u>	В
PL 17.850 PL 17.850 PD FD FD FD FD FD FD FD FD FD F	PUMP-OUT CALCULATIONS AS PER AS3500.3           ORM         10 ARI 2Hr (I = 31.8mm/hr)           VUMP         APPROX 66m <sup>2</sup> 0.0065Ha x 273 mm/hr         = 5 360	
	REVIDE DUAL PUMPS WITH MINMUM REPERATE OF 6 IIS EACH. REFER TO DET	D
7.850	ANZAC ANZAC	
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	NADER ZAKI	P1	NZ	ISSUED FOR CO-ORDINATION	28.04.2023	GROUND FLOOR PLAN
	MIEAust CPEng NER	P2	NZ	ISSUED FOR CO-ORDINATION	08.06.2023	GROUND FLOOR PLAN
		P3	NZ	ISSUED FOR CO-ORDINATION	26.06.2023	PROJECT TITLE
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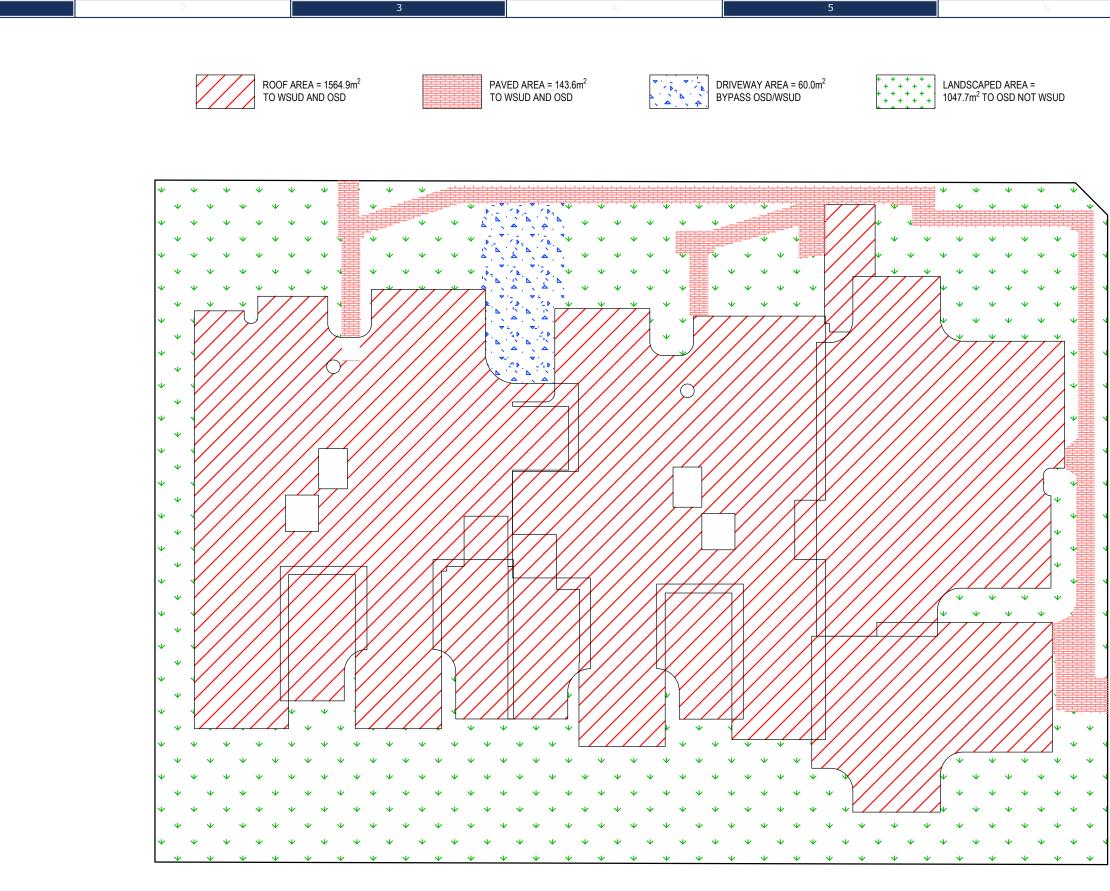


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	NADER ZAKI	P1	NZ	ISSUED FOR CO-ORDINATION	28.04.2023		SHEET SIZEAS	E230197
	MIEAust CPEng NER	P2	NZ	ISSUED FOR CO-ORDINATION	08.06.2023	LEVEL 02 PLAN	DESIGNED NZ	L230197
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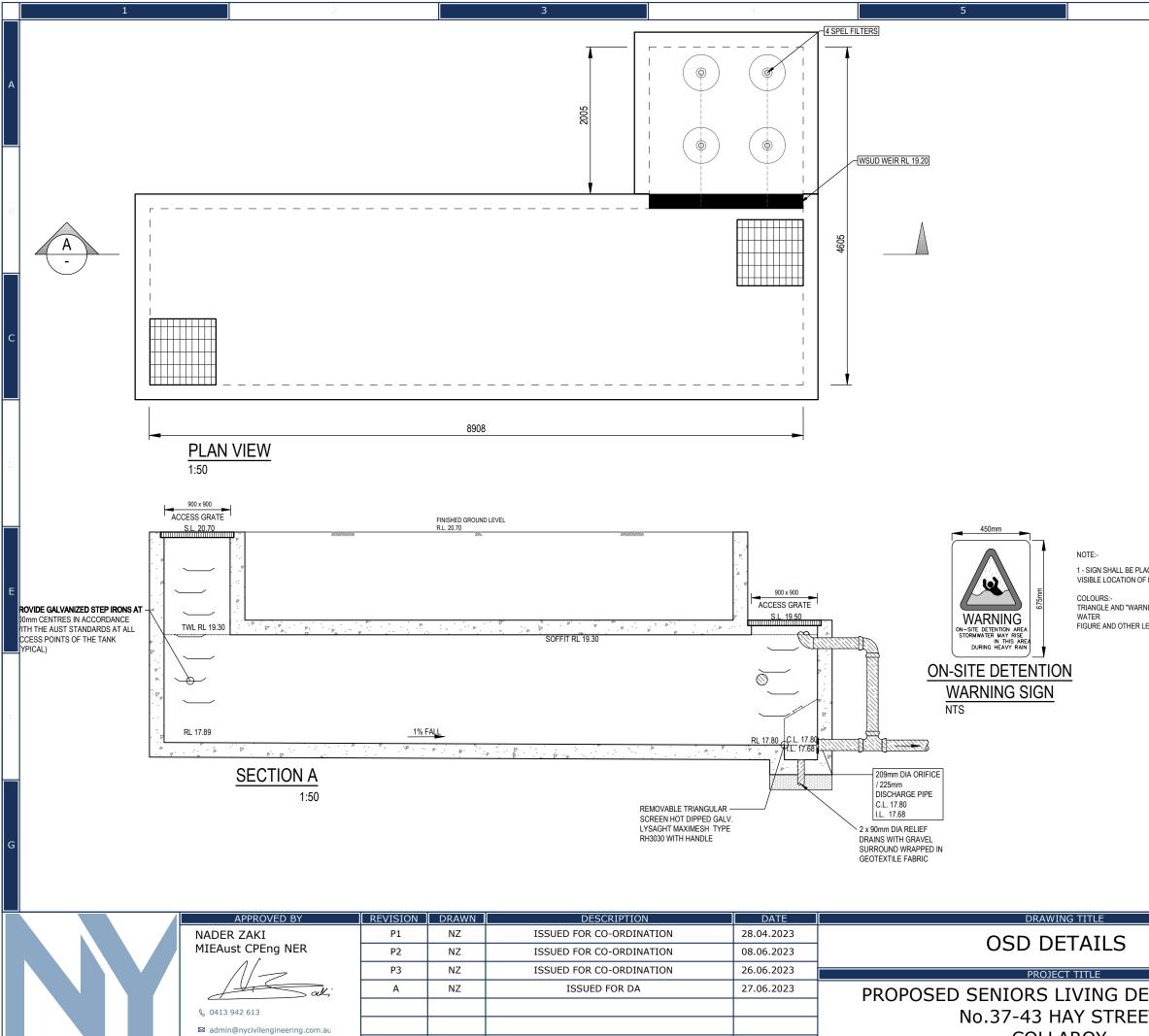
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	MIEAust CPEng NER	P2	NZ	ISSUED FOR CO-ORDINATION	08.06.2023	ROOF PLAN	DESIGNED NZ	2250157
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			1	= 258mm/hr
			Q <sub>100</sub>	= 2.01l/s
	1	= 20m <sup>2</sup>	-100	
	RFI	= 258mm/hr		
	Q <sub>100</sub>	= 1.43l/s		= 22m <sup>2</sup>
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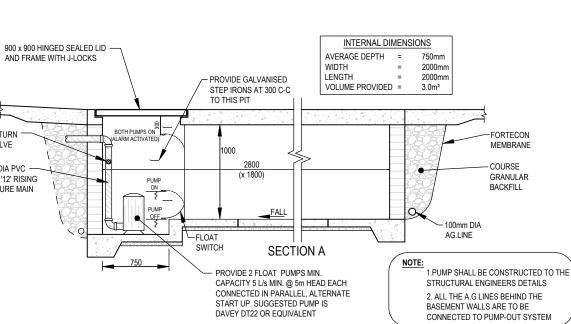
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ACED IN A CLEAR AND FEACH DETENTION BASIN.					Е			
RNING" - RED - BLUE LETTERING - BLACK								
THIS IS AN ON SITE STORMWATER DETENTION SYSTEM REQUIRED BY YOUR LOCAL COUNCIL IT IS AND OFFENSE TO REDUCE THE VOLUME OF THE TANK OR BASIN OR TO INTERFERE WITH THE ORIFICE PLATE THAT CONTROLS THE OUTFLOW THIS PLATE MUST NOT BE REMOVED CORNERS: SQUARE COCOUR: ETCHED AND FILLED BLACK LEGEND ON MATERIAL: ALUMINIUM 0.9mm MILLE DSD PLAQUE NTS								
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FORTECON MEMBRANE

COURSE

GRANULAR

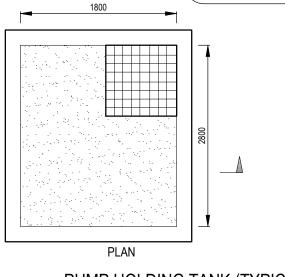
BACKFILL

AND FRAME WITH J-LOCKS

NON-RETURN

FLAP VALVE

PRESSURE MAIN



PUMP HOLDING TANK (TYPICAL) NTS

### STANDARD PUMP OUT DESIGN NOTES:

THE PUMP OUT SYSTEM SHALL BE DESIGNED TO OPERATE IN THE FOLLOWING MANNER-

- THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.

- A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THE FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.

- A SECOND FLOAT HALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW-LEVEL FLOAT.

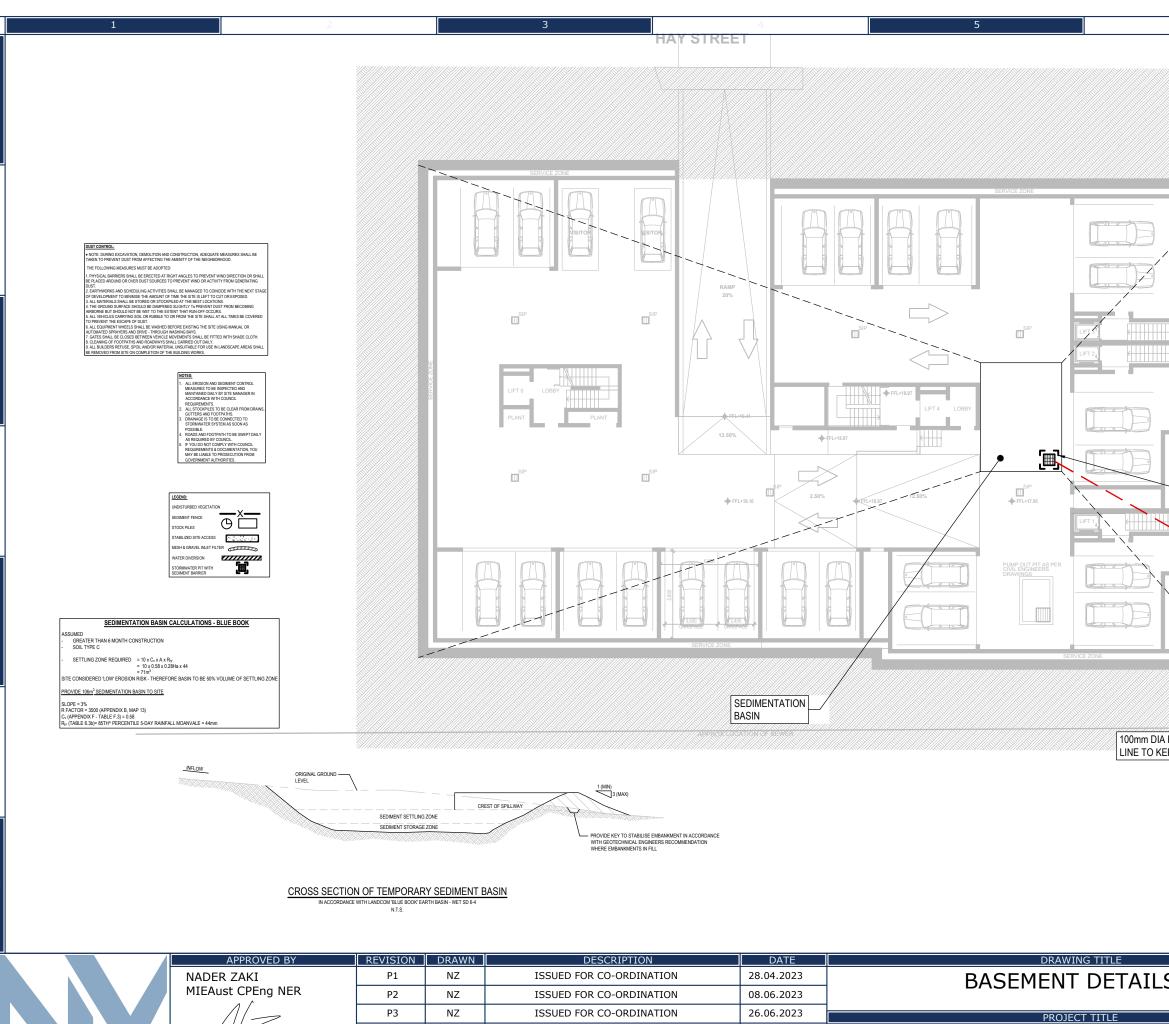
- A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

- 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.

	APPROVED BY	REVISION	DRAWN	DESCRIPTION	DATE	DRAWING TITLE	SHEET SIZEA3	JOB REFERENCE
	NADER ZAKI	P1	NZ	ISSUED FOR CO-ORDINATION	28.04.2023	STORMWATER DETAILS	SHEET SIZEAS	E230197
	MIEAust CPEng NER	P2	NZ	ISSUED FOR CO-ORDINATION	08.06.2023	STORMWATER DETAILS	DESIGNED NZ	
		P3	NZ	ISSUED FOR CO-ORDINATION	26.06.2023	PROJECT TITLE	CHECKED NZ	DRAWING No.
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DE ENVIROPOD TYPE A UT OVERLOW PROVISION TO OUTLET
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PROVIDE ENVIRO WITHOUT OVERF MANUFACTURES



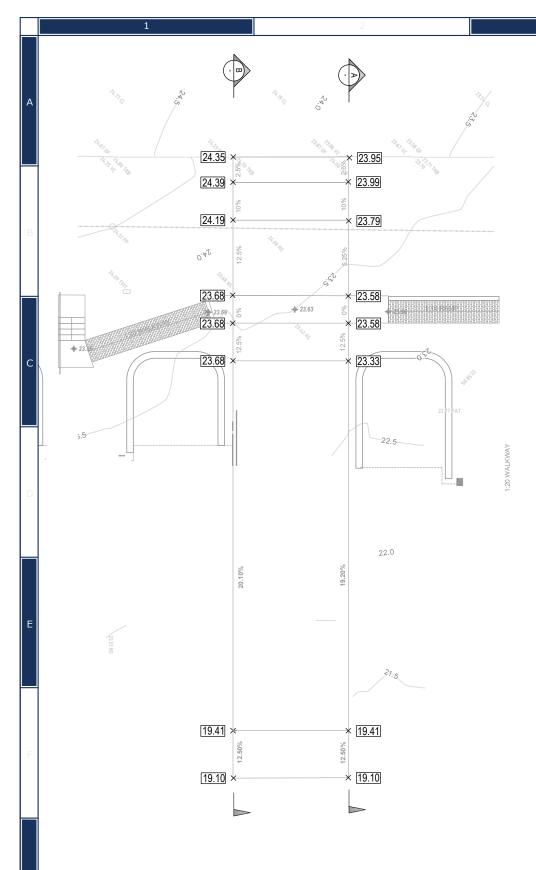
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C	0413 942 613

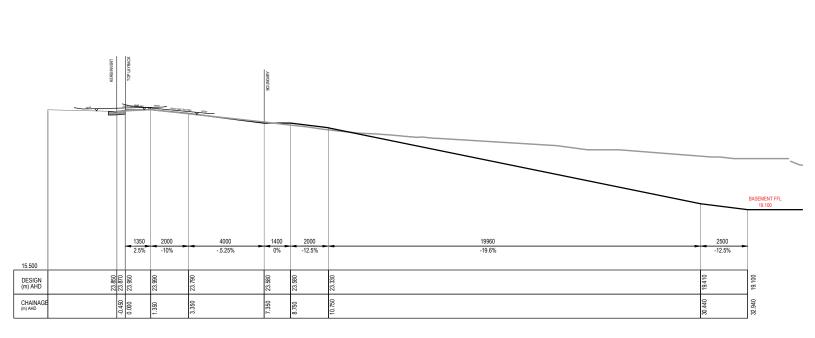
- all

P2NZISSUED FOR CO-ORDINATION08.06.2023P3NZISSUED FOR CO-ORDINATION26.06.2023ANZISSUED FOR DA27.06.2023PROPOSED SENIORS LIVING DEV<br/>No.37-43 HAY STREET<br/>COLLAROY

NY CIVIL ENGINEERING

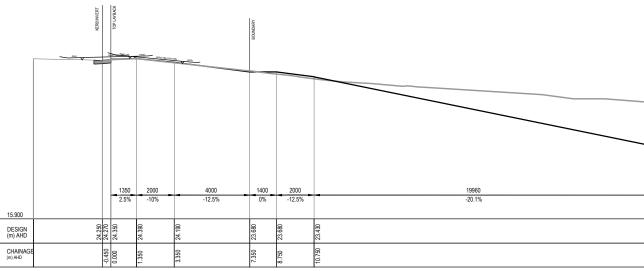
6	7	
		A
		C
	D OR CLEAN	
A PUMP OUT		F
	CHEFT CI7EA3	G JOB REFERENCE
S	SHEET SIZEA3	E230197
EVELOPMENT	CHECKED NZ	drawing no. D9
ET	ISSUE A	No. IN SET
	SCALE 1:250	11





### DRIVEWAY LONGSECTION A

HORIZONTAL 1:200 VERTICAL 1:200

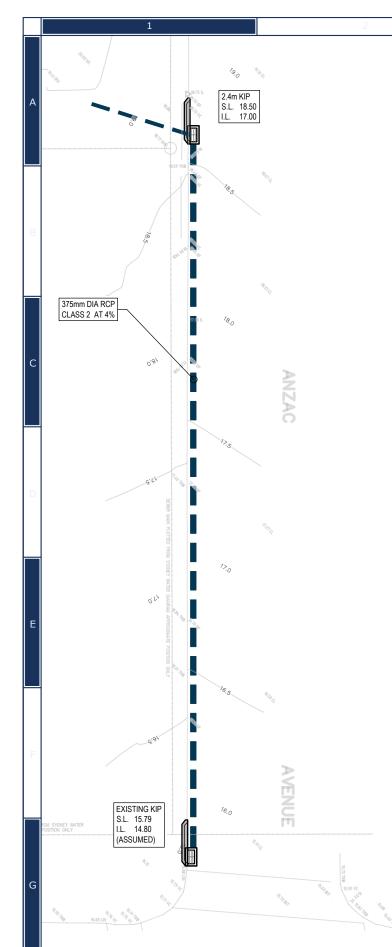


## DRIVEWAY LONGSECTION B

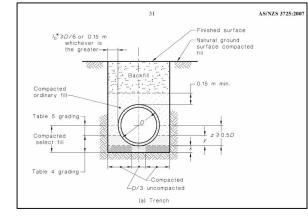
HORIZONTAL 1:200 VERTICAL 1:200

	APPROVED BY	REVISION	DRAWN	DESCRIPTION	DATE	DRAWING TITLE		JOB REFERENCE
	NADER ZAKI	P1	NZ	ISSUED FOR CO-ORDINATION	28.04.2023	DRIVEWAY SECTION	SHEET SIZEA3	E230197
	MIEAust CPEng NER	P2	NZ	ISSUED FOR CO-ORDINATION	08.06.2023	DRIVEWAT SECTION	DESIGNED NZ	
	$\Lambda \sim$	Р3	NZ	ISSUED FOR CO-ORDINATION	26.06.2023	PROJECT TITLE	CHECKED NZ	DRAWING No.
	alli	А	NZ	ISSUED FOR DA	27.06.2023	PROPOSED SENIORS LIVING DEVELOPMENT		D10
	§ 0413 942 613					No.37-43 HAY STREET	ISSUE A	No. IN SET
	🖾 admin@nycivilengineering.com.au						SCALE 1:200	11
NY CIVIL ENGINEERING	www.nycivilengineering.com.au					COLLAROY	SCALE 1:200	

		BASEMENT FFL 19.100
_	2500	
	-12.5%	
	30.440 19.410	19.100
	30.440	32.940



NOTE: ALL PITS TO BE CAST IN-SITU TO COUNCIL'S DETAILS AND SPECIFICATIONS



GRADING LIM	BLE 6 ITS FOR SELECT D HAUNCH ZONES	TABLE 7 GRADING LIMITS FOR SELECT FILL IN SIDE ZONE			
Sieve size mm	Weight passing %	Sieve size	Weight passing %		
19.0 2.36 0.60	100 100-50 90-20	75.0 9.5 2.36	100 100-50 100-30		
0.30 0.15 0.075	60-10 25-0 10-0	0.60 0.075	50-15 25-0		
nits would result in ma e draining. Granular se qualities but woul	ial within the above grading terial that is well graded and material that may exhibit d break down when wetted, ely conglomerates, are not all not be used.	limits would result in ma free draining. Granular these qualities but would	rial within the above grading tterial that is well graded and materials that may exhibi d break down when wetted ely conglomerates, are no all not be used.		

4		<b>5</b> 6	7	
4	Datum El. 14	5 HGL AT 1% STORM HGL AT 1% STORM 118L/s 375mm 4.73%	7	A Existing kip
HGL	17.251			14.945
Surface Level	18.5			15.79
Invert Level	17.000			14.800
Chainage	0			46.50
	LONGSEC H - 1:250 V - 1:25	NOTE: BED LAYER (x) TO BE 100mm THICK 1-2% CEMENT BOUND WELL GRADED BACKFILL COMPACTED TO 80% COMPACTION. PIPE HAUNCH ZONE (y) TO BE 150mm THICK 1-2% CEMENT MODIFIED WELL GRADED BACKFILL COMPACTED TO 80% COMPACTION. MATERIAL OVER PIPE TO BE COMPACTED TO 80% COMPACTION		F
DA 8.04.2	TE		SHEET SIZEA3	JOB REFERENCE
8.06.2	2023		DESIGNED NZ	E230197
6.06.2 7.06.2		PROPOSED SENIORS LIVING DEVELOPMENT	CHECKED NZ	DRAWING No. D11
		No.37-43 HAY STREET	ISSUE A SCALE 1:250	No. IN SET

### ROAD RECTIFICATION NOTES (TYPICAL)

REINSTATE INTEGRAL KERB AND GUTTER ON 50mm SAND TO COUNCIL'S SPECIFICATIONS AND DETAILS

CUT ROAD PAVEMENT 500mm WIDE AND REINSTATE TO GEORGES RIVER COUNCIL'S SPECIFICATIONS;

PIPE BEDDING AND HAUNCH MATERIAL TO BE CEMENT MODIFIED CRUSHED ROCK CONFORMING TO AS3725

PIPE BACKFILL TO CONFORM TO AS3725, COMPACTED TO 95% DRY COMPACTION IN LAYERS OF 150mm THICKNESS

ROAD PAVEMENT MINIMUM 200mm THICKNESS 20mm CRUSHED ROCK COMPACTED TO 98% DRY COMPACTION IN LAYERS OF 100mm THICKNESS

WEARING COURSE TO BE 50mm AC10 HOTMIX

	APPROVED BY	REVISION	DRAWN	DESCRIPTION	DATE	DRAWING TITLE
	NADER ZAKI	P1	NZ	ISSUED FOR CO-ORDINATION	28.04.2023	EXTERNAL PIPE SECTIO
	MIEAust CPEng NER	P2	NZ	ISSUED FOR CO-ORDINATION	08.06.2023	EXTERNAL PIPE SECTIO
	$\Lambda$	P3	NZ	ISSUED FOR CO-ORDINATION	26.06.2023	PROJECT TITLE
	alli	А	NZ	ISSUED FOR DA	27.06.2023	PROPOSED SENIORS LIVING DEV
	\u03c8 0413 942 613     \u03c8     \					No.37-43 HAY STREET
	⊠ admin@nycivilengineering.com.au					
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