STORWATER CONCEPT PLAN

AT 54 BARDO ROAD, NEWPORT, NSW

NOTE RE. SERVICES

APPROXIMATE LOCATIONS OF EXISTING SERVICES SHOWN ON LONGITUDINAL SECTION. EXACT LOCATIONS & DEPTHS TO BE ACURATELY LOCATED BY BUILDER CONTRACTOR BY CONTACTING THE RELEVANT AUTHORTIES BEFORE COMMENCEMENT OF ANY WORKS



GENERAL NOTES

- 1. ALL LINES ARE TO BE MIN. 100Ø UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
- 2. 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.
- 3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
- 4. ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE
- 5. ALL WORK DO BE DONE IN ACCORDANCE WITH COUNCIL'S DCP AND TO COUNCIL'S SATISFACTION.
- 6. 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.
- 7. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, LANDSCAPE AND
- 8. ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER AND COUNCIL ENGINEER FOR RESOLUTION.
- 9. ALL PITS OR GRATES IN TRAFFICABLE AREAS TO BE HEAVY DUTY.
- 10. ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE
- 11. ALL PIT GRATES ON SITE MUST BE HINGED WITH J-BOLT LOCKDOWN SYSTEM.
- 12. PITS DEEPER THAN 1m REQUIRE STEP IRONS IN A STAGGERED MANNER. THE DEPTH OF ANY PIT IN EXCESS OF 2m SHALL BE STRUCTURALLY DESIGNED AND CERTIFIED BY A STRUCTURAL ENGINEER AND SUBMITTED TO COUNCIL FOR APPROVAL.
- 13. PROVIDE GRATED DRAIN IN ALL OPEN AREAS TO THE SKY INCLUDING STAIRS AND CONNECT TO NEAREST STORMWATER SYSTEM.
- 14. PROVIDE EMERGENCY SPITTERS TO ALL BALCONIES.
- 15. PROVIDE AGG PIPE IN ALL LANDSCAPE AREA AND CONNECT TO THE STORMWATER DRAINAGE
- 16. PROVIDE AGG PIPE BEHIND THE RETAINING WALL AND CONNECT TO THE STORMWATER DRAINAGE
- 17. TOP OF KERB AND INVERT OF GUTTER LEVELS & SERVICES ARE TO BE CHECKED ON SITE PRIOR ANY SITE WORK, INCLUDING CONSTRUCTION OF INTERNAL DRAINAGE SYSTEM. CONTACT ENGINEER IMMEDIATELY IF LEVEL VARIES FROM DESIGN DRAWING.
- 18. ALL RETAINING WALL FOR ABOVE GROUND OSD/BIORETENTION BASIN TO BE FULLY CONSTRUCTED WITHIN THE PROPERTY BOUNDARY.

SURFACE INLET PIT DIMENSION									
	MINIMUM INTERNAL DIMENSIONS (mm)								
DEPTH TO INVERT OF OUTLET	RECTA	RECTANGULAR							
	WIDTH	LENGTH	DIAMETER						
≤450	350	350	-						
>450 ≤600	450	450	600						
>600 ≤900	600	600	900						
>900 ≤1200	600	900	1000						
>1200	900	900	1000						

ON-SITE **DETENSION NOTE:**

THE OSD BASIN/TANK IS TO BE BUILT TO THE CORRECT LEVEL & SIZE AS PER THIS DESIGN ANY VARIATIONS ARE TO BE DONE UNDER CONSULTATION FROM OUR OFFICE ONLY. ANY AMENDMENTS WITHOUT OUR APPROVAL WOULD RESULT IN ADDITIONAL FEES FOR REDESIGN AT OC STAGE OR IF A SOLUTION CANNOT BE FOUND, RECONSTRUCTION IS REQUIRED UNDER THE CONTRACTOR'S EXPENSES.

NOTES: DRAINAGE LINES

TO COLLECT SURFACE WATER

TO COLLECT ROOF WATER ONLY TO RAINWATER TANK

: 100Ø DOWN PIPE U.N.O.

P2: 150Ø UPVC PIPE AT 1.0% MIN. GRADE

P3: 225Ø UPVC PIPE AT 0.5% MIN. GRADE P4: 300Ø UPVC PIPE AT 0.4% MIN. GRADE P5: 375Ø UPVC PIPE AT 0.4% MIN. GRADE

P6: 450Ø RCP PIPE AT 0.4% MIN. GRADE

@1% MIN. U.N.O.

====: STORMWATER PIPE

REFER TO AS.3500 PART 3 TABLE 7.2 P1: 100Ø UPVC PIPE AT 1.0% MIN. GRADE

DRAINAGE LINES SHOWN

DRAINAGE LINES SHOWN

* NEW LEVEL

← EXISTING LEVEL

SYMBOLS

FINISHED FLOOR LEVEL TOP OF KERB RLPIT SURFACE LEVEL INVERT LEVEL STORMWATER DRAINAGE PIPE 100Ø DOWN PIPE (U.N.O.) VERTICAL DROP PIPE \bullet VD

VERTICAL RISER

DOWNPIPE TO RAINWATER TANK

INSPECTION OPENING

HINGED GRATE

RAINWATER OUTLET 150Ø DISH DRAIN OUTLET 100Ø GRATED INLET PIT GRATED DRAIN

DRAWING No.

DO1

DO2

DO3

DO4

OVERLAND FLOW PATH SPREADER

EMERGENCY SPITTER

MASONRY RETAINING WALL CONV.PIPE CONVERTER FLOOR WASTE 300Ø D/S DOWNSTREAM DDO DISH DRAIN OUTLET DN DIAMETER DP DOWNPIPE EX. EXISTING

DRAWING SCHEDULE

COVER SHEET, LEGEND & DRAWING SCHEDULE

BASEMENT STORMWATER DRAINAGE DETAILS

GROUND FLOOR/SITE STORMWATER DRAINAGE PLAN

GROUND FLOOR/SITE STORMWATER DRAINAGE DETAILS

EROSION AND SEDIMENT CONTROL PLAN AND DETAILS

ABBREVIATIONS

BASEMENT STORMWATER DRAINAGE PLAN

DRAWING TITLE

FFL FINISHED FLOOR LEVEL GL GROUND LEVEL GMS GALVANISED MILD STEEL RW RETAINING WALI GSIP GROUND SURFACE INLET PIT RWT RAINWATER TANK GTD GRATED TRENCH DRAIN S/S STAINLESS STEEL H.H HEADHEIGHT HIGH LEVEL

INVERT LEVEL TK TOP OF KERB INSPECTING OPENING U/S UPSTREAM SITE OF WORK

KIP KERB INLET PIT

OB OBVERT LEVEL

OSD ON-SITE DETENTION

PVC POLYVINYLCHLORIDE

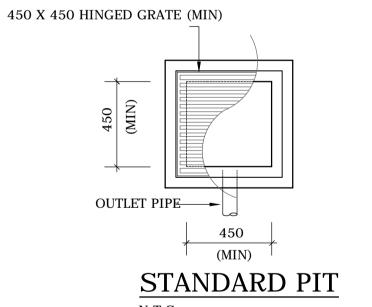
SURFACE LEVE

STW STORMWATER

LL LOW LEVEL

O/F OVERFLOW

PROP. PROPOSED



TYPICAL PIT SECTION N.T.S.

PIT

N.T.S. -GALVANISED GRATE AND IF BLOCK WALL PROVIDED, THEN PROVIDE

TYPICAL PIT DETAIL

DRRUBE

LOCALITY SKETCH NOT TO SCALE



NOT FOR CON	ST	RU	CTIC	N					
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AMENDMENT	ENG	DRAFT	DATE	No	AMENDMENT	ENG	DRAFT	DATE	CONSENT OF THE COMPANY

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PROVIDE 150mm GAP UNDER THE FENCE

OPENING FOR EMERGENCY OVERFLOW.

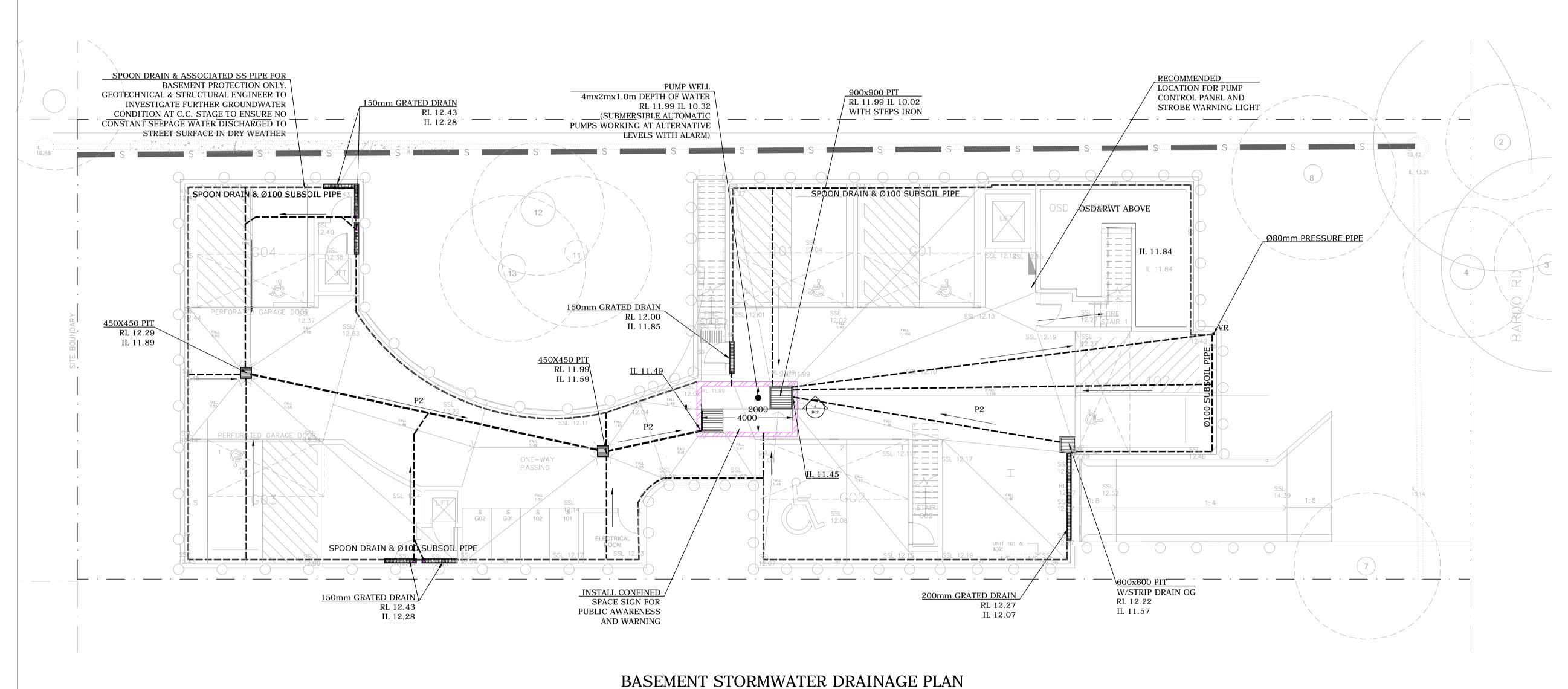




PROPOSED SENIOR LIVING 54 BARDO ROAD. NEWPORT, NSW

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-								
PROJECT 54 BA	ARDO ROAD, NEW	PORT						
AUG 21	DRAWN L.L.	DESIGNED L.Y.	CHECKED N.L.					
SCALE @ A1 N.T.S.		JOB No 20NL103						
AUTHORISED NERMEIN I	LOKA	DWG No DOO	REV B					



NOTE RE. SERVICES

APPROXIMATE LOCATIONS OF EXISTING SERVICES SHOWN ON LONGITUDINAL SECTION. EXACT LOCATIONS & DEPTHS

TO BE ACCURATELY LOCATED BY BUILDER CONTRACTOR BY CONTACTING THE RELEVANT AUTHORTIES BEFORE COMMENCEMENT OF ANY WORKS



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SYMBOLS

F.F.L. FINISHED FLOOR LEVEL TOP OF KERB

PIT SURFACE LEVEL INVERT LEVEL

— SSD— SUBSOIL DRAINAGE PIPE

STORMWATER DRAINAGE PIPE DOWNPIPE TO RAINWATER TANK

100Ø DOWN PIPE (U.N.O.)

100Ø VERTICAL DROP (U.N.O.)

VERTICAL RISER

INSPECTION OPENING

MASONRY RETAINING WALL FLOOR WASTE 300Ø

DISH DRAIN OUTLET 100Ø

GRATED INLET PIT

GRATED DRAIN

OVERLAND FLOW PATH **▶**SP

SPREADER EMERGENCY SPITTER \rightleftharpoons ES

VD : 100Ø VERTICAL DROP (U.N.O.)

■■■■■■: STORMWATER PIPE

@1% MIN. U.N.O. REFER TO AS.3500 PART 3 TABLE 7.2

P1: 100Ø UPVC PIPE AT 1.0% MIN. GRADE

P2: 150Ø UPVC PIPE AT 1.0% MIN. GRADE

P3: 225Ø UPVC PIPE AT 0.5% MIN. GRADE

NOTES: COUNCIL ISSUED FOOTWAY DESIGN LEVELS COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE

FINISHED LEVELS ONCE ISSUED BY COUNCIL

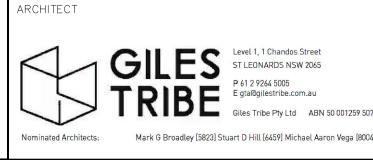
NOTES: ROAD RESERVE & FOOTWAY DRAINAGE ELEMENTS

ALL STORMWATER DRAINAGE ELEMENTS PROPOSED WITHIN THE ROAD RESERVE AND FOOTWAY ENGINEER.

NOT FOR CONSTRUCTION

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С	FOR D.A. APPROVAL/ARCH UPDATES	L.Y.	L.Y.	17-03-21							AND MUST NOT BE
В	FOR D.A. APPROVAL	L.Y.	L.Y.	01-09-20	Н	FOR S4.55		L.Y.	L.L.	08-10-21	RETAINED, COPIED OR USED
Α	FOR D.A. APPROVAL	L.Y.	L.Y.	26-08-20	G	FOR S4.55		L.Y.	L.L.	12-08-21	WITHOUT THE WRITTEN
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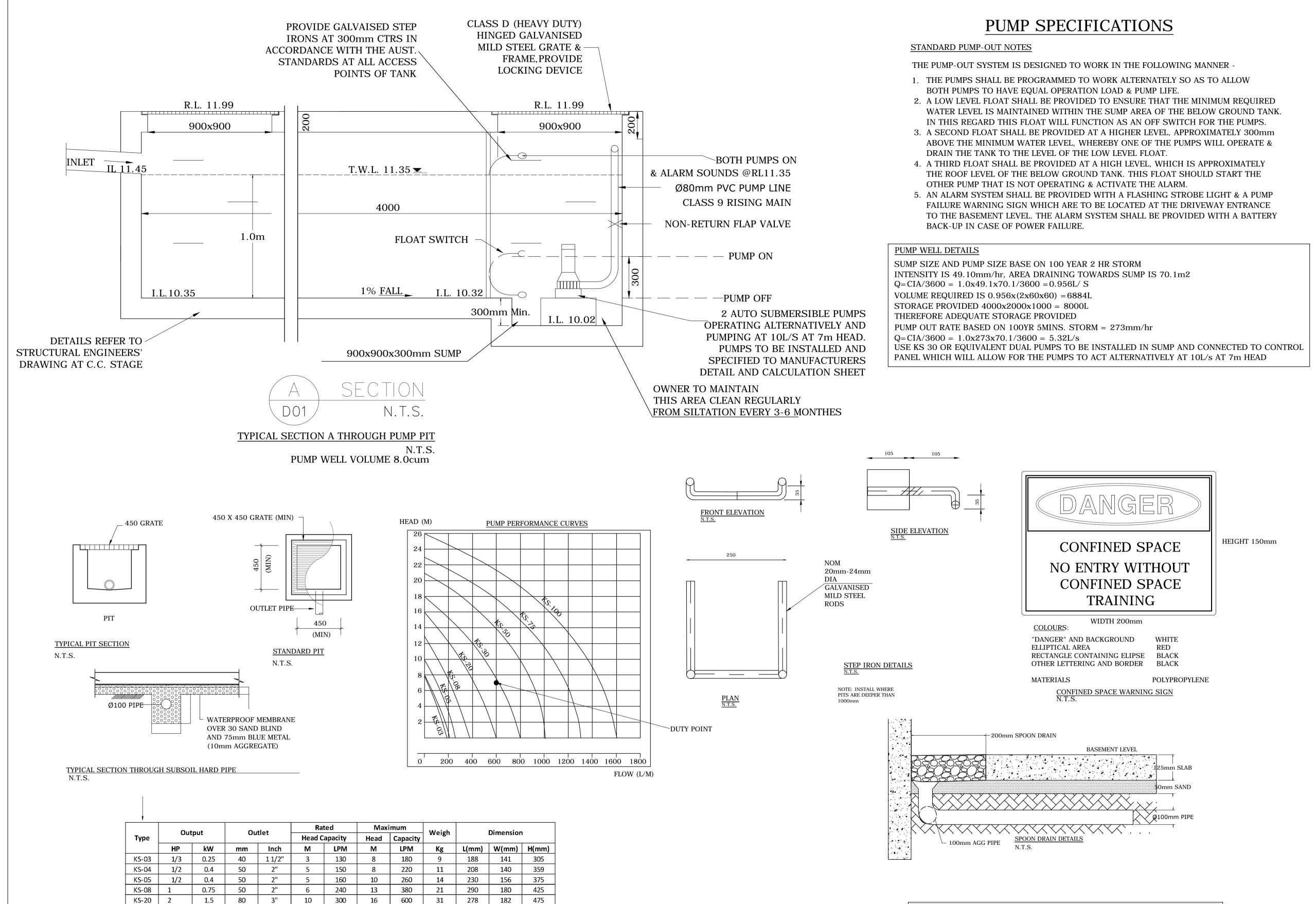


PROPOSED SENIOR LIVING 54 BARDO ROAD, NEWPORT, NSW

BASEMENT STORMWATER
DRAINAGE PLAN

SHEET SUBJECT

	PROJECT 54 B	ARDO ROAD, NEW	PORT		
STORMWATER	OCT 21	drawn L.L.	DESIGNED L.Y.	CHECK	ED I.L.
LAN	SCALE @ A1		JOB No		
	1:100 U	.N.O	20NL103		
	AUTHORISED		DWG No		REV
	NERMEIN 1	LOKA	D01		Н



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WARNING

PUMP OUT SYSTEM **FAILURE IN BASEMENT** WHEN LIGHT IS FLASHING AND SIREN SOUNDING

BASEMENT PUMP OUT FAILURE

WARNING SIGN

NOTE: -

1- SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT.

COLOURS:; -

WARNING - RED BORDER AND OTHER COLOURING - BLACK

NOTE: A SUITABLE ALARM SYSTEM POSITIONED AT ENTRANCE OF BASEMENT CARPARK TO PROVIDE A FLOOD WARNING IN CASE OF PUMP FAILURE (TO COUNCILS SPEC). AS SHOWN ABOVE.

NOTE: TO BE CONFIRMED BY STRUCTURAL ENGINEERS PRIOR CONSTRUCTION.

NOT FOR CONSTRUCTION

RECOMMENDED

KS-30

KS-50

KS-75 7 1/2

2.2

5.6

7.5

100

100

150

						1	I		
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FOR S4.55	L.Y.	L.Y.	10-08-21						CONSULTING ENGINEERS
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AMENDMENT	ENG	DRAFT	DATE	No	AMENDMENT	ENG	DRAFT	DATE	CONSENT OF THE COMPANY
	FOR S4.55 FOR D.A. APPROVAL FOR D.A. APPROVAL	FOR S4.55 L.Y. FOR S4.55 L.Y. FOR D.A. APPROVAL L.Y. FOR D.A. APPROVAL L.Y.	FOR S4.55 L.Y. L.Y. FOR S4.55 L.Y. L.Y. FOR D.A. APPROVAL L.Y. L.Y. FOR D.A. APPROVAL L.Y. L.Y.	FOR S4.55 L.Y. L.Y. 10-08-21 FOR S4.55 L.Y. L.Y. 02-08-21 FOR D.A. APPROVAL L.Y. L.Y. 01-09-20 FOR D.A. APPROVAL L.Y. L.Y. 26-08-20	FOR S4.55 L.Y. L.Y. 10-08-21 FOR S4.55 L.Y. L.Y. 02-08-21 FOR D.A. APPROVAL L.Y. L.Y. 01-09-20 FOR D.A. APPROVAL L.Y. L.Y. 26-08-20	FOR S4.55 L.Y. L.Y. 10-08-21 FOR S4.55 L.Y. L.Y. 02-08-21 FOR D.A. APPROVAL L.Y. L.Y. 01-09-20 FOR D.A. APPROVAL L.Y. L.Y. 26-08-20	FOR S4.55 L.Y. L.Y. 10-08-21 FOR S4.55 L.Y. L.Y. 02-08-21 FOR D.A. APPROVAL L.Y. L.Y. 01-09-20 FOR D.A. APPROVAL L.Y. L.Y. 26-08-20	FOR S4.55	FOR S4.55

6"

500

800

900

18

23

25

800

1300

1600

60

70

550

550





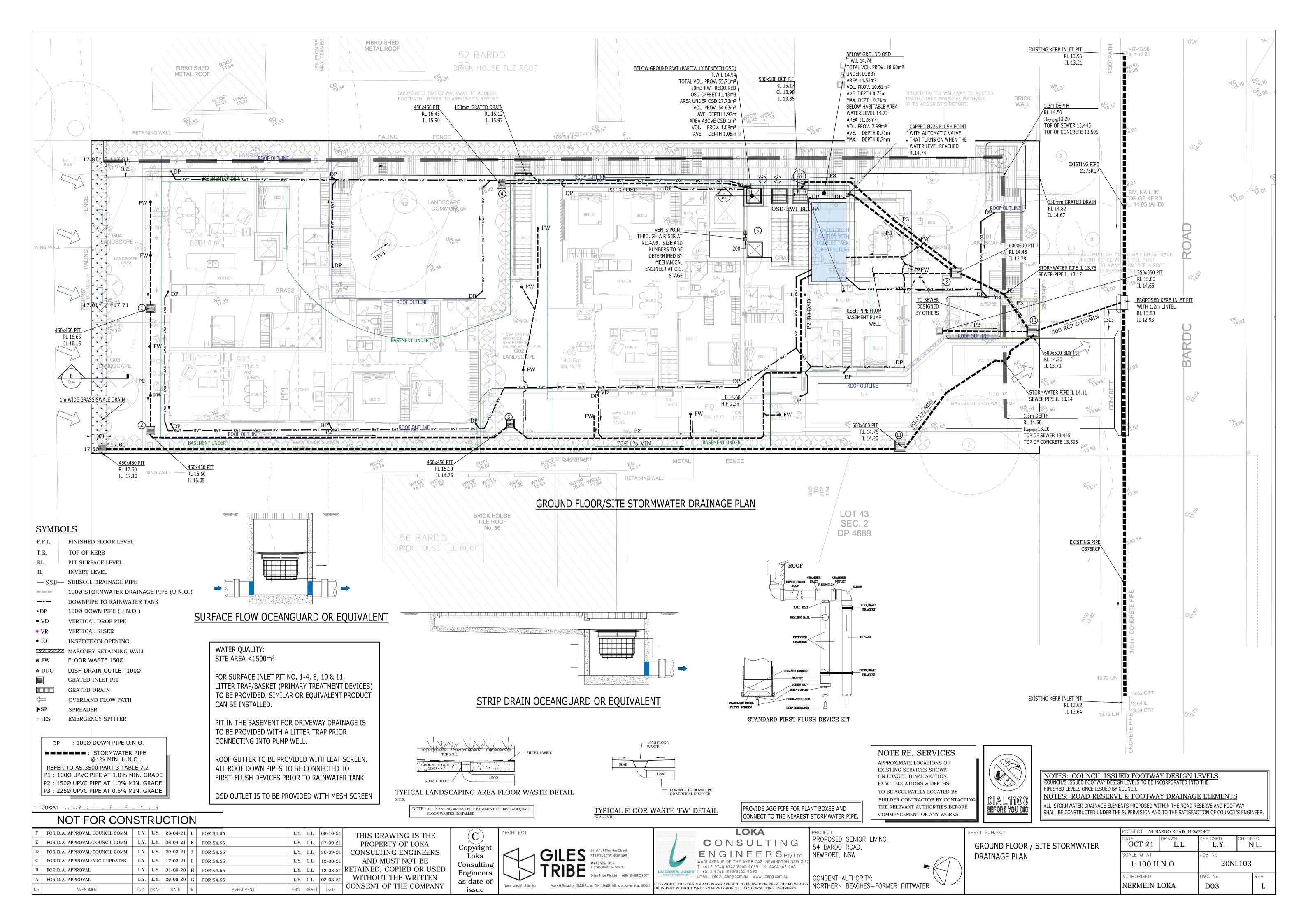


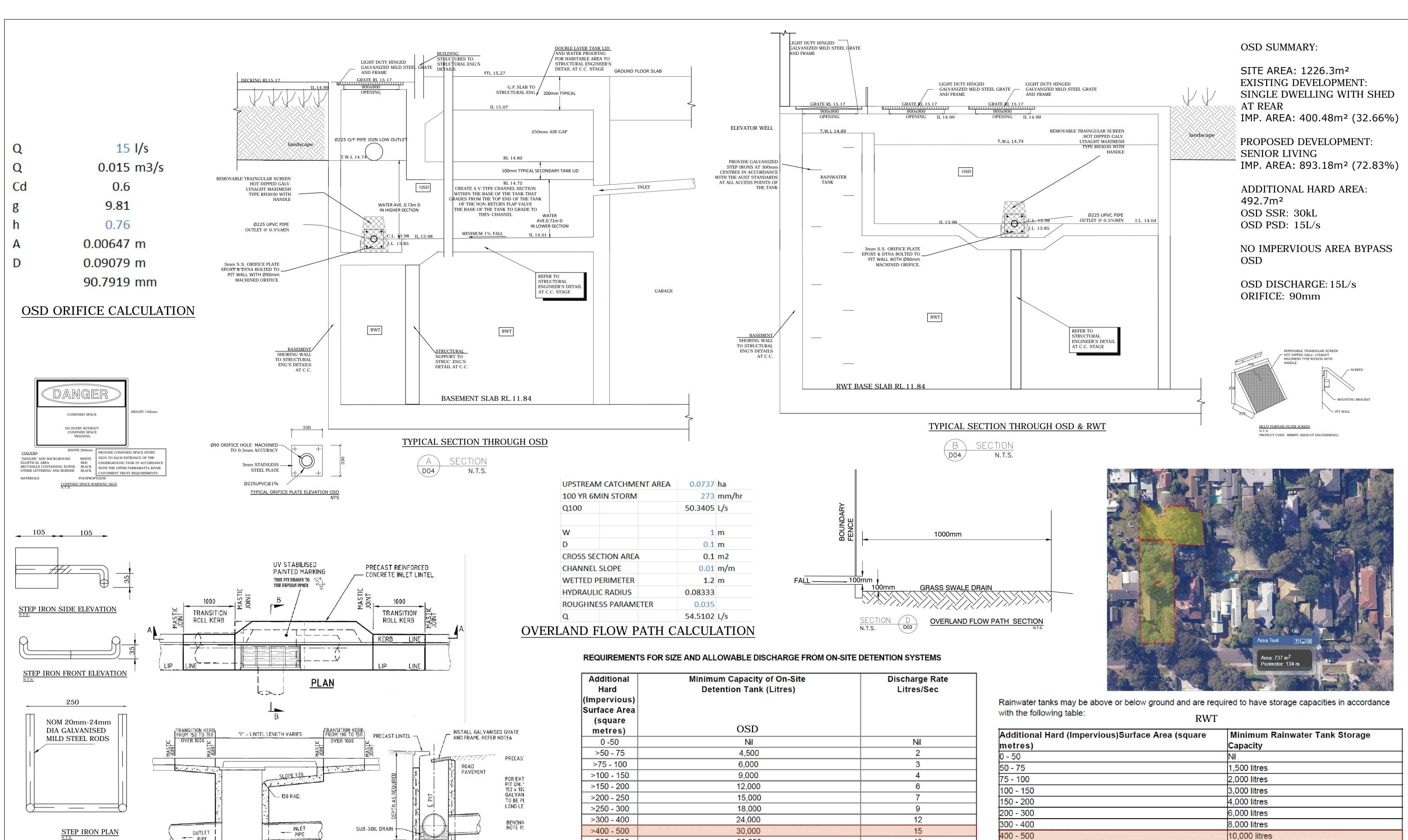




CONSENT AUTHORITY:

SHEET SUBJECT	PROJECT 54 BARDO ROAD, NEWPORT								
BASEMENT STORMWATER	AUG 21	DRAWN L.Y.	DESIGNED L.Y.	CHECKED N.L.					
DRAINAGE DETAILS	SCALE @ A1		JOB No						
	N.T.S.		20NI	L103					
	AUTHORISED		DWG No	REV					
	NERMEIN L	OKA	D02	ΙE					





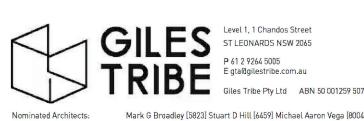
		[[F] PAYEMENT	1 - 400 450 1	0.000	1 1		
	SLOPE 1/20	FOR EXT	>100 - 150	9,000	4	75 - 100	2,000 litres
		PIT ONL' 152 x 102	>150 - 200	12,000	6	100 - 150	3,000 litres
	150 RAD.	FOR EXT PIT ONLY 152 x 102 GALVAN TO BE PI LONG LE	>200 - 250	15,000	7	150 - 200	4,000 litres
		LONG LE	>250 - 300	18,000	9		*
			>300 - 400	24,000	12	200 - 300	6,000 litres
	SUR SOU DRAW	BENCHIN NOTE 11.			12	300 - 400	8,000 litres
STEP IRON PLAN	OUTLET SUB-SOIL DRAIN SUB-SOIL DRAIN	NOTE II.	>400 - 500	30,000	15	400 - 500	10,000 litres
<u>N.1.S.</u>	PIPE	SUB-SO	>500 - 600	36,000	18		
NOTE: INSTALL WHERE			>600 - 700	42,000	21	500 - 600	12,000 litres
PITS ARE DEEPER THAN	DESER NOTE 10	• •		<u> </u>	24	600 - 700	14,000 litres
1000mm	150 900 150 SECTIO	<u>N B – B</u>	>700 - 800	48,000	24	700 - 800	16,000 litres
		<u>NOTES</u>	>800 - 900	54,000	27	800 - 900	
	SECTION A - A	1. CONCRETE TO E	>900 - 1,000	60,000	30	The state of the s	18,000 litres
100@A1 1 . 2 . 3 . 4 . 5				num storage capacity of 60 litres per m2 of addition	al hard/impervious surface area	900 - 1,000	20,000 litres
TOUGAT THINTE TO A TOTAL TOTAL TO A TOTAL TO	TYPICAL STANDARD KERB INLET PIT SECT	<u>TON</u>				Above 1,000*	See note (1) below, minimum size 20,000 litres
NOT FOR CONSTRU	ICTION		and a di	scharge rate which replicates the discharge from t	ne site were it to be undeveloped.	and the second s	
1101101101111							

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С	FOR D.A. APPROVAL/COUNCIL COMM.	L.Y.	L.Y.	29-03-21	Ι	FOR S4.55	L.Y.	L.L.	20-10-21	AND MUST NOT BE
В	FOR D.A. APPROVAL/ARCH UPDATES	L.Y.	L.Y.	17-03-21	Н	FOR S4.55	L.Y.	L.L.	20-09-21	RETAINED, COPIED OR USED
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No	AMENDMENT	ENG	DRAFT	DATE	No	AMENDMENT	ENG	DRAFT	DATE	CONSENT OF THE COMPANY

1:100@A1 2 . 3 .

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PROPOSED SENIOR LIVING 54 BARDO ROAD, NEWPORT, NSW CONSENT AUTHORITY:

NORTHERN BEACHES-FORMER PITTWATER

SHEET SUBJECT	PRO-
SITE STORMWATER DRAINAGE	DATE A
DETAILS	SCAI
	1
	AUTI

	PROJECT 54 BA	ARDO ROAD, NEW	PORT				
E	AUG 21	DRAWN L.L.	DESIGNED L.Y.	CHECKED N.L.			
	SCALE @ A1		JOB No				
	N.T.S.		20NL103				
	AUTHORISED		DWG No	REV			
	NERMEIN I	LOKA	D04	I			

