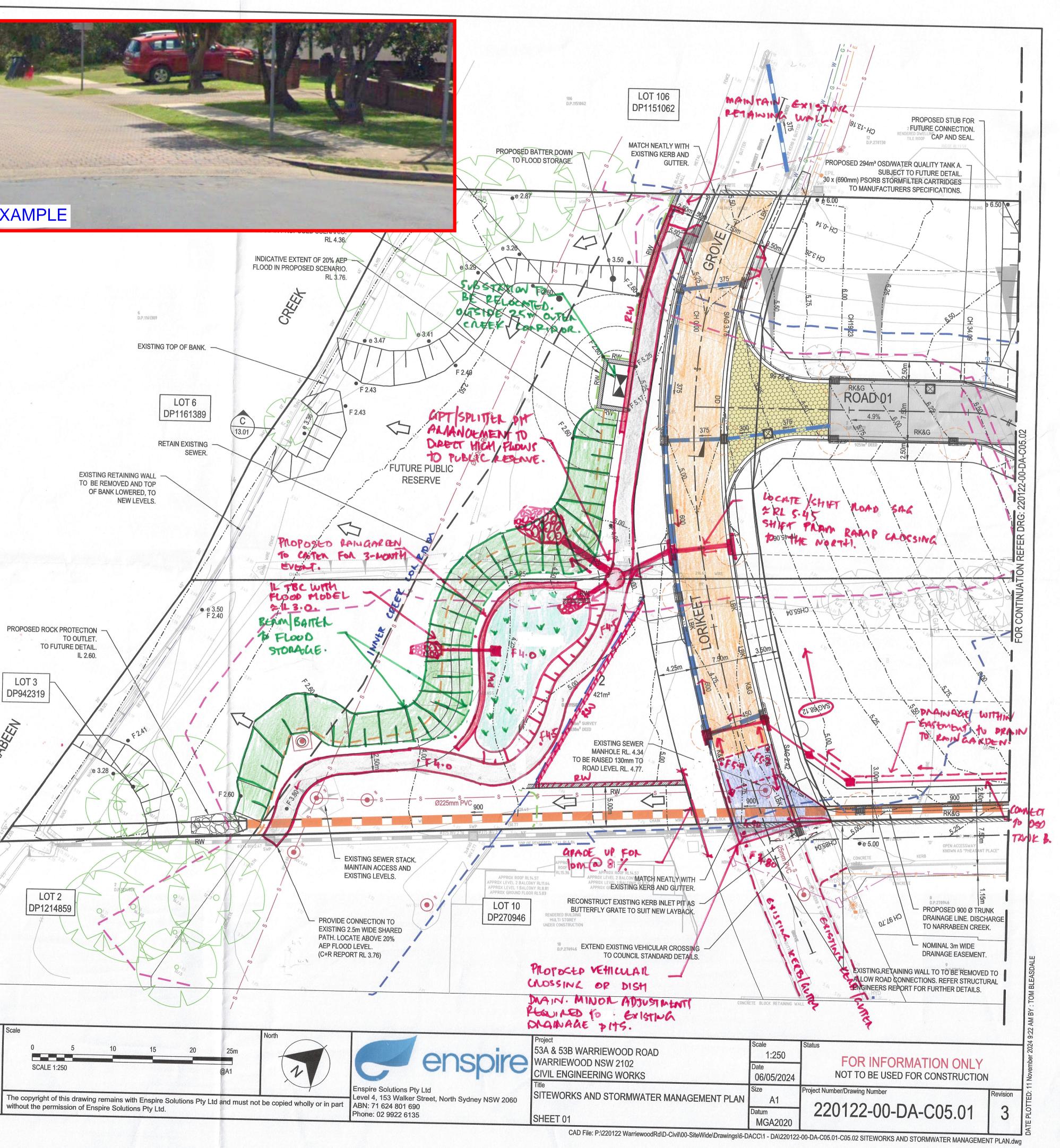
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	FLOW DIRECTION TRUNK STORMWATER DRAINAGE LINE STORMWATER LINE/PIT NUMBER KERB INLET PIT SURFACE INLET PIT/JUNCTION PIT	2.1. 2.2. 2.3. 3. F 4. F	WATER QUALITY TREA	45%	1	
	STORMWATER LINE/PIT NUMBER KERB INLET PIT SURFACE INLET PIT/JUNCTION PIT	2.1. 2.2. 2.3. 3. F 4. F	PROPRIETARY FI		51.1%	
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(jamana) patients	SURFACE INLET PIT/JUNCTION PIT	3. F 4. F	OSD/WATER QUA	ALITY TANKS. FBASKETS.		N
	HEADWALL	18	RAINWATER TAN REFER MUSIC MODEL FILTER CARTRIDGE SY	KS IN FUTURE RESIDE	ENTIAL LOTS. RE SOLUTIONS FOR DE ED AFTER 80% OF CATO	TAILS.
		<u>C - FLC</u>	S DEVELOPED.			
<u>s</u>	DRIVEWAY LOCATION (FUTURE)	A	S FULLOWS:		PART OF THIS DEVELO	
MH	EXISTING SEWER PIPE	2. PE	EAK SURFACE WATER	LEVELS AS PER C&R	WATER MANAGEMENT	REPORT.
	EXISTING SEWER MAINTENANCE SHAFT & MANHOLE	S	TORM EVENT	EXISTING	PROPOSED	
	STAMPED AC, PORPHYRY PAVERS OR		20% AEP	2001m ³	3104m ³	
	SIMILAR		1% AEP	3303m ³ 4736m ³	3908m ³	
	EXISTING 1% AEP FLOOD LINE (RL 4.361) REFER WATER MANAGEMENT REPORT BY CRAIG & RHODES					
	EXISTING 20% AEP FLOOD LINE (RL 3.755) REFER WATER MANAGEMENT REPORT BY CRAIG & RHODES					
	PROPOSED 1% AEP FLOOD LINE (RL 4.361)			•		
	PROPOSED 20% AEP FLOOD LINE (RL 3.755)					
	ELECTRICAL SUBSTATION					
	OVERLAND FLOW					
	SCOUR PROTECTION				•	
	STORMWATER PIT INSERTS (OCEANGUARD)					
	PAVEMENT INTERFACE DETAIL					
	TINSW STEEL RAIL SAFETY BARRIER					
E	TO MANUFACTURER SPECIFICATIONS					
F	REFER ARBORIST REPORT PREPARED BY THE TREE GUARDIAN					

SEKISUI HOUSE

OR DEVELOPMENT APPLICATION	SS	TPB	RLE	MC
OR INFORMATION				
OR INFORMATION	SS	TPB	RL	MC
	JS	TPB	RLE	MC
DESCRIPTION	DRN.	DES.	VERIF.	APPD.

REV. DATE



FLOW DIRECTION TRUNK STORMWATER DRAINAGE LINE A01/01 STORMWATER LINE/PIT NUMBER KERB INLET PIT SURFACE INLET PIT Image: Store of the store o		
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ROLL RENS AND GOTTER • B 100.00 • B 100.00 • e 100.00 EXISTING LEVEL • F 100.00 • F 100.00 <	K&G	
•e 100.00 EXISTING LEVEL •F 100.00 FINISHED LEVEL •IL 100.00 INVERT LEVEL <th>RK&G</th> <th></th>	RK&G	
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A01/01 STORMWATER LINE/PIT NUMBER Image: A01/01 STORMWATER LINE/PIT NUMBER Image: A01/01 KERB INLET PIT Image: A01/01 SURFACE INLET PIT/JUNCTION PIT Image: A01/01 HEADWALL Image: A01/01 DRIVEWAY LOCATION (FUTURE) Image: A01/01 EXISTING SEWER PIPE Image: A01/01 EXISTING SEWER PIPE Image: A01/01 EXISTING SEWER MAINTENANCE Image: A01/01 STAMPED AC, PORPHYRY PAVERS OR Image: A01/01 EXISTING 1% AEP FLOOD LINE (INDICATIVE) Image: A01/01 EXISTING 20% AEP FLOOD LINE (INDICATIVE) Image: A01/01 Image: A01/01 Image: A01/01 Image: A01/01	375	STORMWATER DRAINAGE LINE (SUBDIVISION)
Image: Superace interprise Im		TRUNK STORMWATER DRAINAGE LINE
Image: Surface Inlet Pit/JUNCTION PIT Image: Surface Inlet Pit/Junction Pit/Ju	(A01/01)	STORMWATER LINE/PIT NUMBER
Image:		KERB INLET PIT
Image: Construction of the second		SURFACE INLET PIT/JUNCTION PIT
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Image: Standard Server Maintenance Shaft & Manhole Image: Stamped AC, PORPHYRY PAVERS OR SIMILAR Image: Stamped AC, Porphyry Pavers OR Stamped Action Stamped Actin Action Stamped Action Stamped Action Stampe		DRIVEWAY LOCATION (FUTURE)
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TO MANUFACTURER SPECIFICATIONS EXISTING TREE TO BE RETAINED REFER ARBORIST REPORT PREPARED		
C	<u> </u>	
BY THE TREE GUARDIAN		
INDICATIVE STREET LIGHT LOCATION	@	INDICATIVE STREET LIGHT LOCATION

DESIGN SUMMARY:

TOTAL CATCHMENT AREA = 1.654 ha CATCHMENT AREA EXCLUDING FLOOD STORAGE = 1.24 ha LGA = NORTHERN BEACHES COUNCIL **REGION = NORTHERN STORMWATER REGION 1.**

A - WATER QUANTITY

- OSD REQUIRED IN ACCORDANCE WITH COUNCIL'S WATER
- MANAGEMENT FOR DEVELOPMENT POLICY REFER DRAINS MODEL BY ENSPIRE SOLUTIONS FOR DETAILS.
- SSR = 368m³/ha SSR = 368 x 1.24 SSR = 456m³ REQUIRED.

STORM EVENT		POST-DEVELOPMENT FLOWS (m ³ /s)			
20% AEP	0.509	0.487			
5% AEP	0.717	0.631			
1% AEP	0.921	0.777			

B - WATER QUALITY

WATER QUALITY REQUIREMENTS IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL WATER MANAGEMENT FOR DEVELOPMENT POLICY.

POLLUTANT	TARGET	REDUCTION
GP	90%	96%
TSS	85%	85%
TP	65%	65%
TN	45%	51.1%

2. WATER QUALITY TREATMENT PROVIDED BY:

2.1. PROPRIETARY FILTER CARTRIDGES SYSTEM LOCATED WITHIN OSD/WATER QUALITY TANKS. 2.2. OCEAN SAVE PIT BASKETS.

2.3. RAINWATER TANKS IN FUTURE RESIDENTIAL LOTS.

3. REFER MUSIC MODEL PREPARED BY ENSPIRE SOLUTIONS FOR DETAILS. 4. FILTER CARTRIDGE SYSTEM TO BE INSTALLED AFTER 80% OF CATCHMEN IS DEVELOPED.

C - FLOOD STORAGE

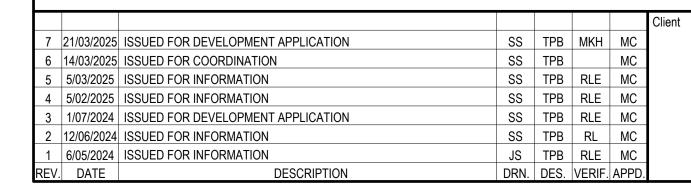
1. FLOOD STORAGE IS PROPOSED WITHIN LOT 1. 2. PEAK SURFACE WATER LEVELS AS PER CSS FLOOD STUDY.

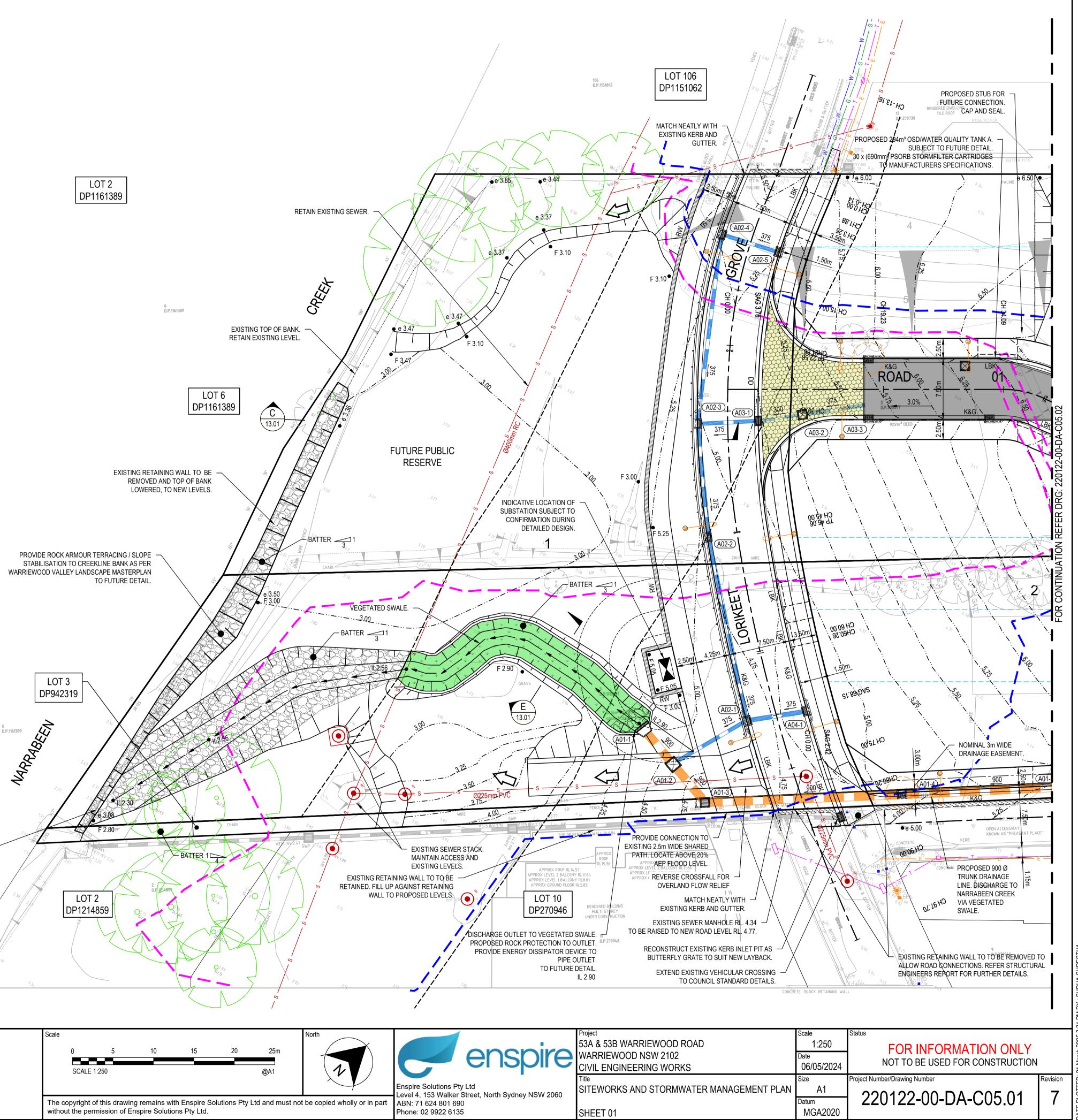
STORM EVENT	EXISTING	PROPOSED
20% AEP	5798m ³	5462m ³
5% AEP	6658m ³	5913m ³
1% AEP	8053m ³	6616m ³

D.P.1161389

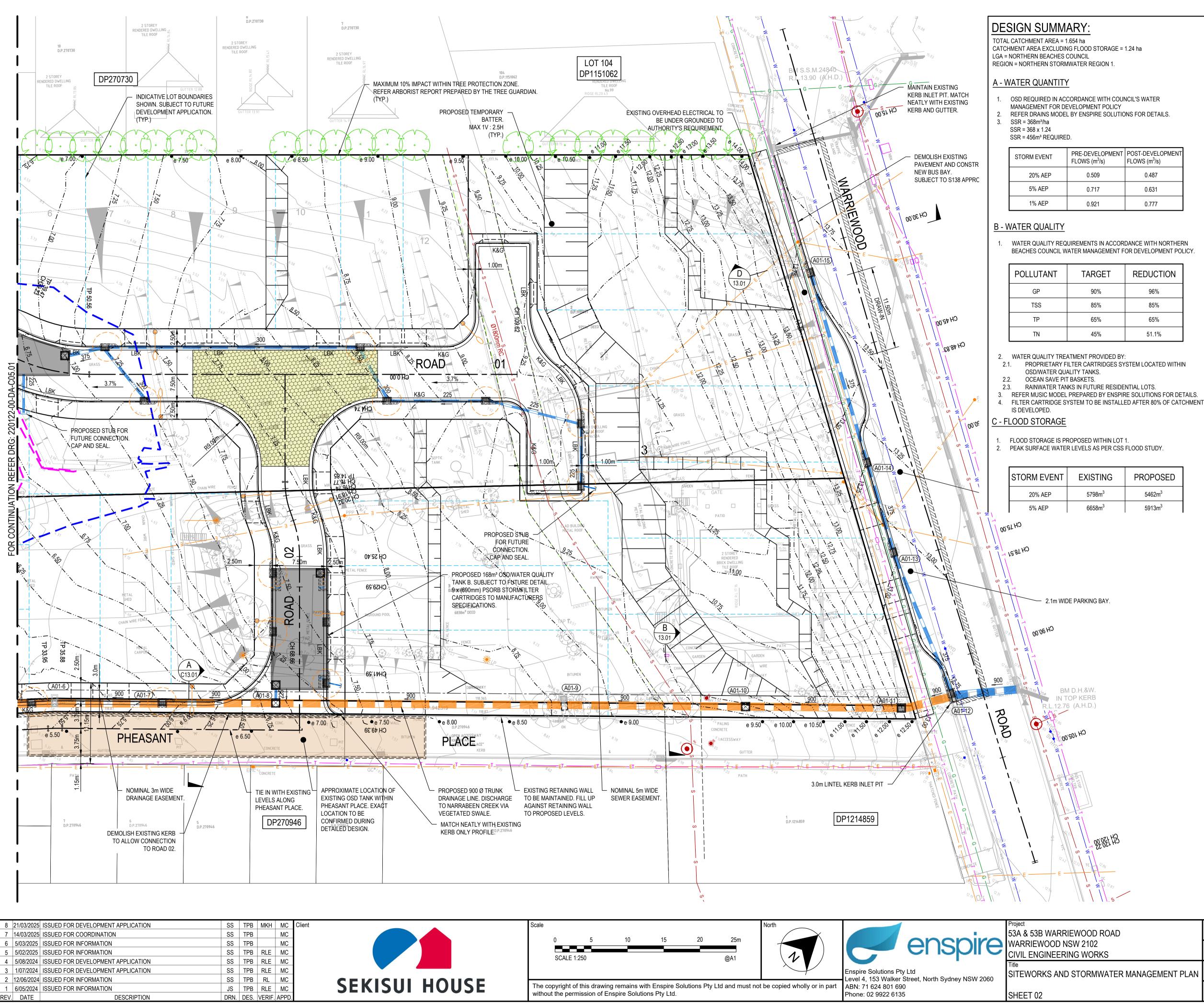
DEMOLISH AND REMOVE EXISTING ROCK RETAINING WALL. LOWER TOP OF BANK LEVELS.

SEKISUI HOUSE





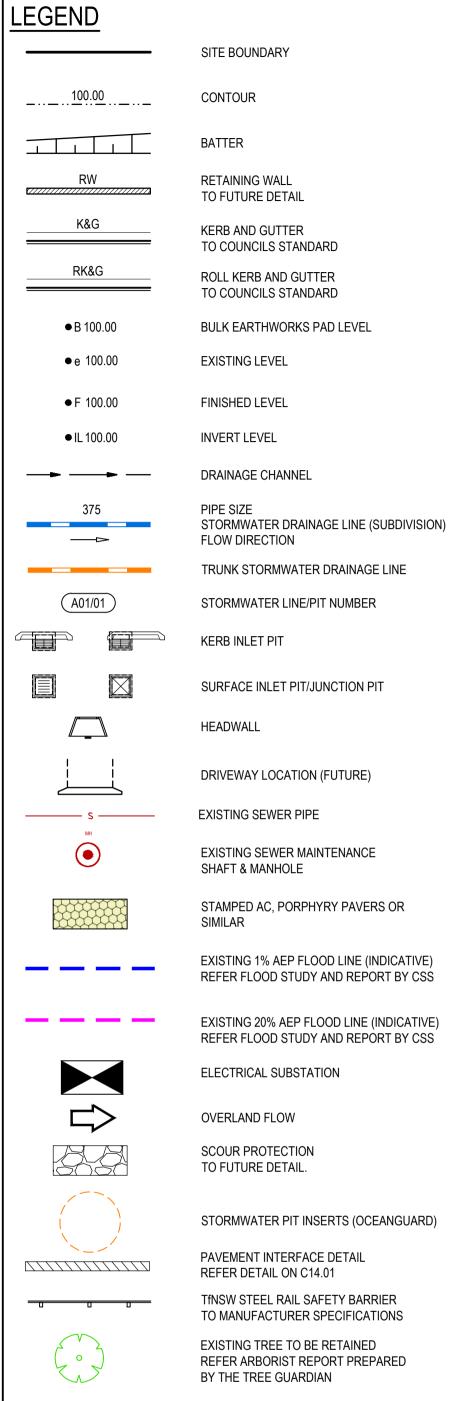
CAD File: \\ensdc01.enspiresolutions.local\Projects\220122 WarriewoodRd\D-Civil\00-SiteWide\Drawings\6-DACC\1 - DA\220122-00-DA-C05.01-C05.02 SITEWORKS AND STORMWATER MANAGEMENT PLAN.dwg



ENT	POST-DEVELOPMENT FLOWS (m ³ /s)
	0.487
	0.631
	0.777

REDUCTION
96%
85%
65%
51.1%

i	PROPOSED
	5462m ³
	5913m ³



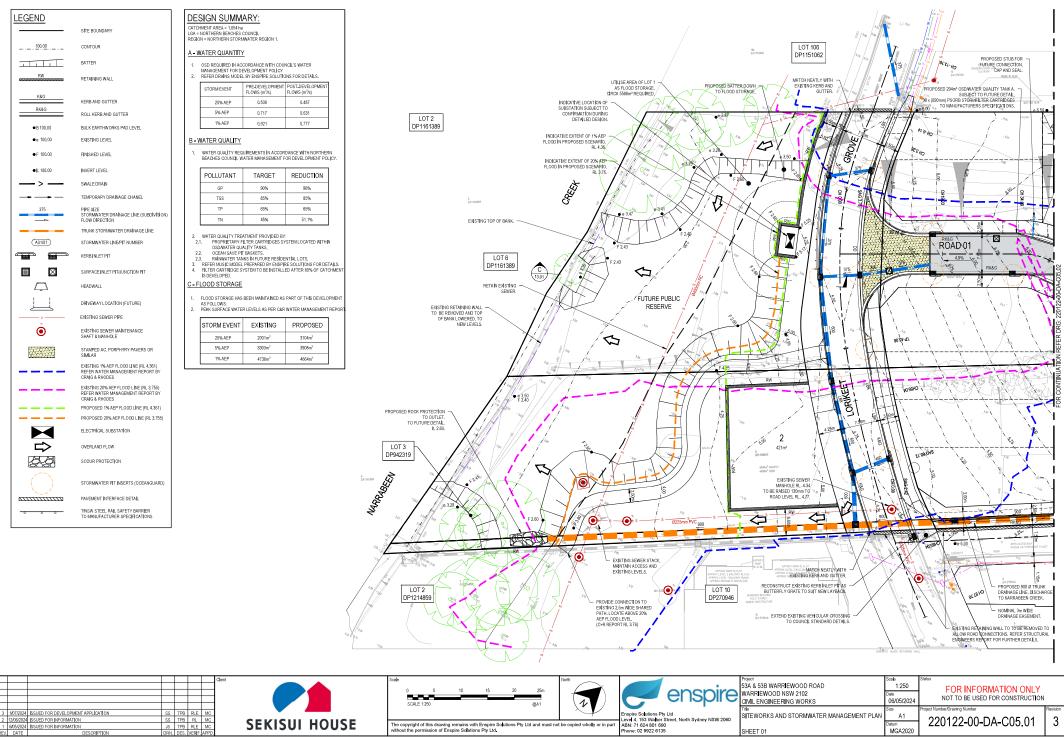
INDICATIVE STREET LIGHT LOCATION

Status 1:250 FOR INFORMATION ONLY Date NOT TO BE USED FOR CONSTRUCTION 06/05/2024 oject Number/Drawing Number A1 220122-00-DA-C05.02)atum

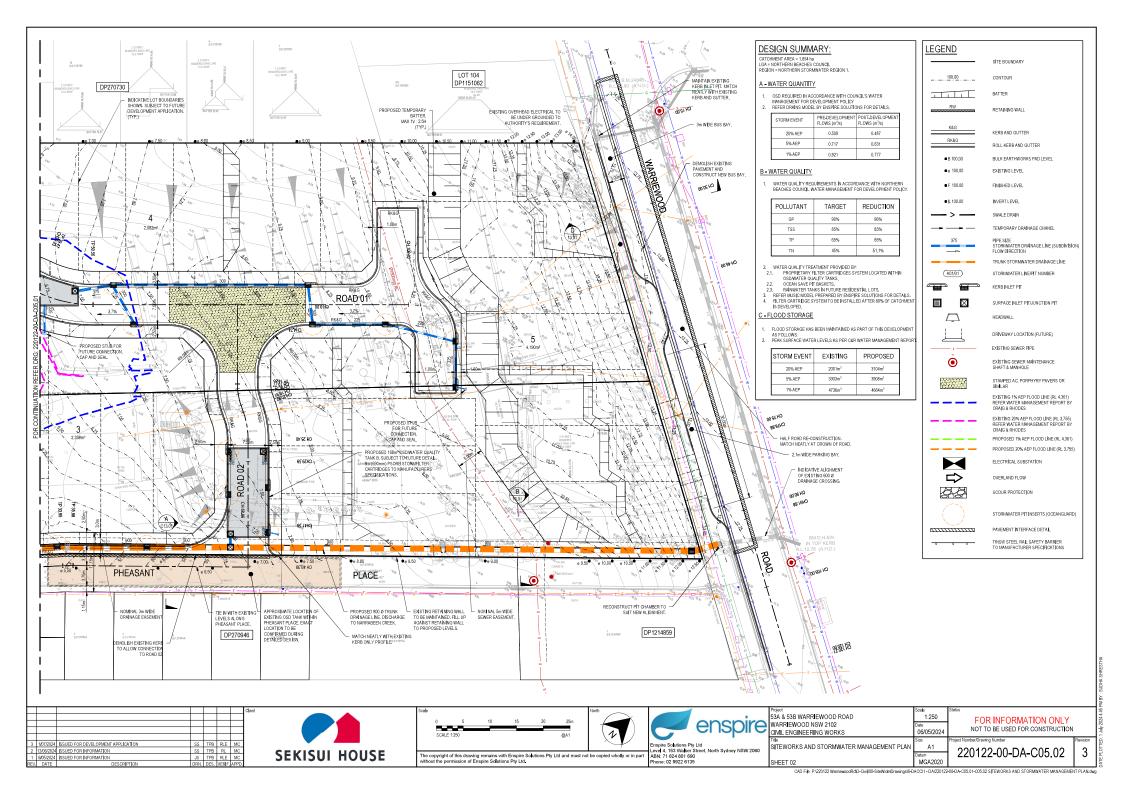
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LEGEND									W.S.,
	SITE BOUNDARY			1	See.	C. Alt			19492 1974
100.00	CONTOUR					1 and	-112		-
<u> </u>	BATTER			. 8					
RW									
	RETAINING WALL				1 .0	S. A.	C1		
K&G	KERB AND GUTTER			area and	A. Lord	and a start			
RK&G	ROLL KERB AND GUTT	ſER		and the state	- to and	the state of		121-2.	L.FE
●B 100.00	BULK EARTHWORKS F	PAD LEVEL			Contraction of the second	al and	Res dans		
• e 100.00	EXISTING LEVEL			RAIS	SED TH	HRESH		OSSIN	١G
• F 100.00	FINISHED LEVEL			1. WA	TER QUALITY RE	QUIREMENTS IN ACC	CORDANCE WITH NORT	HERN	
• IL 100.00	INVERT LEVEL			BE/		WATER MANAGEMEN	NT FOR DEVELOPMENT	POLICY.	
>	SWALE DRAIN			P	OLLUTANT	TARGET	REDUCTION		
	TEMPORARY DRAINAG	E CHANEL			GP	90%	96%		
375	PIPE SIZE				TSS	65%	85%		
>	STORMWATER DRAINA	GE LINE (SUBDI	/ISION)	-	TN	45%	51.1%	_	
	TRUNK STORMWATER	DRAINAGE LINE		2 144-					
(A01/01)	STORMWATER LINE/PIT	NUMBER		2. WAT 2.1.	ER QUALITY TRE PROPRIETARY F OSD/WATER QU	ATMENT PROVIDED	BY: SYSTEM LOCATED WIT	HIN	
	KERB INLET PIT			2.2. 2.3.	OCEAN SAVE PI	ALITY TANKS. T BASKETS. NKS IN FUTURE RESI	DENTIALLOTE		
	SURFACE INLET PIT/JUI	NCTION PIT		3. REFI 4. FILTI	ER MUSIC MODEL ER CARTRIDGE S	PREPARED BY ENS	PIRE SOLUTIONS FOR I LLED AFTER 80% OF C/	DETAILS.	
	HEADWALL			15 DE	EVELOPED.				PE
	DRIVEWAY						AS PART OF THIS DEVE		
	DRIVEWAY LOCATION (F	-UTURE)		ASEC	LLOWS:		R WATER MANAGEMEN		
МН	EXISTING SEWER PIPE				RM EVENT	EXISTING			
	EXISTING SEWER MAINT SHAFT & MANHOLE	ENANCE				2001m ³	PROPOSED	-	
	STAMPED AC, PORPHYR SIMILAR	Y PAVERS OR			5% AEP	3303m ³	3104m ³	1	
	SIMILAR EXISTING 1% AEP FLOO[) LINE (RI & 361)	and the second		1% AEP	4736m ³	4664m ³	1	
	REFER WATER MANAGE	MENT REPORT B	Y L						
I	EXISTING 20% AEP FLOO REFER WATER MANAGEI	D LINE (RL 3.755)						
C	CRAIG & RHODES PROPOSED 1% AEP FLOO								
	PROPOSED 20% AEP FLO								
	ELECTRICAL SUBSTATIO								•
	VERLAND FLOW								
isobol s	COUR PROTECTION		(•		
() s	TORMWATER PIT INSER	TS (OCEANGUAR	RD)						6 D.P.116138
`	AVEMENT INTERFACE DE								
TES:		nu 17 M Inc							6 D.P.116130
OOD LEVELS JORITY OF STO DAD LEVELS TO NGARDEN OP ETLAND SHOW ETLAND SIZINO 6 Ha CATCHME	ORM EVEN O BE RAIS FIONS /N IS CON G: 2% OF S	ITS. ED TO CEPTU SITE AF	FACILI AL ON	IATE E LY.	ITHER	WETLAN	ND OR	IN	
									238
09/01/2025 WARRIEWOOD F		Project No:	220122						H
CIVIL OPTION 3A									
No: SK0023 MC		Revision: Scale:	1 AS SHOWN	_				173	
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		y e	nspir	е					
				C	lient				
24 ISSUED FOR DEVELOPMENT AP									
24 ISSUED FOR INFORMATION	FLICATION		SS TPB R SS TPB F	LE MC RL MC	_				
4 ISSUED FOR INFORMATION	SCRIPTION		JS TPB R	LE MC RIF. APPD.	S	EKIS	UI HOI	USE	

