

Job Number 3124460

Date 14.02.2020

Calculation Sheet

Job Name Kohimarama Retirement Village Subject Proposed Stormwater Calc for a 1% AFP with Climate Ch

Subje	ct Proposed	Stormwater	Calc for a	a 1% AEF	with (Climate Ch	ang	e
By Co	onor O'Boyle			Pa	ge No		of	
					-			

Bec	a Ltd		III Beca	JOB NO:	3124460	
Hyc Proj∉	drographs-	SCS Method: Kohi - Attenuati	on Storage Catchment (A2	Q10)		
Total	Hydrograph in t	abular form: (based	on simulation from abov	e)		
Volun	netric error in scalin	g 0.01%			Time (hr)	Flow (m ³ /s)
					0.000	0.000
					11.001	0.008
		Hydr	ographs		11.347	0.022
					11.491	0.022
	0.14				11.601	0.024
	Perv	rious			11.694	0.030
	0.12Impe				11.776	0.036
	Tota				11.850	0.040
	0.10	·····	<mark>/</mark>		11.918	0.049
					11.981 12.040	0.064 0.074
(s)	0.08		<mark>.</mark>		12.040	0.096
<u> </u>					12.090	0.120
Flow (m³/s)	0.06				12.100	0.131
Ĕ					12.232	0.127
	0.04				12.264	0.111
					12.297	0.093
	0.02				12.331	0.077
					12.365	0.067
	0.00				12.400	0.059
	0	5 10	15	20 25	12.437	0.052
			Time (hr)		12.474	0.046
			Time (III)		12.513	0.042
					12.553	0.039
					12.594	0.035
					12.637 12.682	0.031 0.029
					12.682	0.029
					12.729	0.027
					12.830	0.026
					12.886	0.026
					12.945	0.026
					13.010	0.026
					13.082	0.023
					13.163	0.018
					13.260	0.016
					13.386	0.015
					13.690	0.015
					21.770	0.000
					-1.000	0.000



Job Number 3124460

Calculation Sheet

Job Name Kohimarama Retirement Village

Subject Proposed Stormwater Calc for a 1% AEP with Climate Change

By Conor O'Boyle

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of

$Q = \frac{2}{3}C_a\sqrt{2g} \ bh^{\frac{1}{2}}$ **III Beca** 3124460 JOB NO: Hydrograph Routing Project Description Kohi - Attenuation Storage Catchment (P1-P19, P22, A1, A2 & A8) Stability Coefficient (0.5-1.0) 1.00 Start time (hr) 0 Inflow Hydrograph Depth/ Volume Relationship **Flow Rating Curve** Finish time (hr) 24 Extraction rate (m³/s) 0.00 Flow (m3/s) Flow (m3/s) H above IL RL (m) Volume (m³) RL (m) Time (hr) Weir Total Pipe 0.000 0.000 1. Input data should be in ascending order 0.000 0.000 26.050 0 0.000 26.050 11.001 0.123 26.550 1.3 26.550 0.117 0.000 0.117 in the boxes provided. The maximum no. 0.327 0.327 27.050 27.550 11.347 2.5 27.050 0.236 0.000 0.236 of values is 40, 20 & 20. If a lesser no. of 11.491 3.8 27.550 0.316 0.000 0.316 values is needed then terminate as a 11.601 0.354 28.050 28.050 0.408 0.000 0.408 -1 for the x value. 5.1 28.550 11.694 0.456 6.4 28.550 0.457 0.000 0.457 2. If there is instability in the results 11.776 11.850 0.536 29.050 7.6 29.050 0.500 0.000 0.500 then check that the depth/ vol. and/or 0 601 29 150 79 29 150 0 508 0 000 the flow rating covers the flow range. 0.744 Otherwise increase the stability coefff. 11.918 29.200 8.0 29.200 0.513 0.000 0.513 11.981 0.965 29.350 29.350 0.948 towards 1.0. A value close to 0.5 has 8.4 0.525 0.423 12.040 1.123 29.450 8.7 29.450 0.533 1.050 1.583 better accuracy. 3. Initial pond level will be taken as the RL 12.096 1.456 29 550 89 29 550 0.540 1.843 2.383 3.319 0.548 2.771 12.150 1.828 29.650 9.2 29.650 corresponding to the initial flow on the 12.201 1.999 29.750 9.4 29.750 0.556 3.817 4.372 inflow hydrograph. 29.850 9.7 29.850 0.563 4.969 5.532 4. Extraction rate applies to external 12.232 1.929 12.264 1.699 29,950 9.9 29.950 0.570 6.219 6.789 pumping or infiltration 30 050 12 297 1 4 2 1 30 050 10.2 0.578 7 558 8.136 12.331 1.182 30.150 10.4 30,150 0 585 8.982 9.567 Results: 12.365 1.024 30.250 10.7 30.250 0.592 10 486 11.078 Max.Inflow (m³/s) 1 999 12.400 0.906 30.350 10.9 30.350 0 599 12.065 12.664 Time at Max. Inflow (hr) 12 19 12.437 0.798 0.710 -1.000 -1.000 Max. Outflow (m³/s) 1 998 12.474 Time at Max. Outflow (hr) 12.19 12.513 0.649 Initial RL (m) 26.050 Weir RL (m) Max. RL (m) 12.553 0.602 Weir Length (m) 5.65 29.502 12.594 0.543 Outlet Pipe Dia (m) 0.352 Max. Volume (m3) 8.8 Inflow Volume (m³) 12.637 0.481 Outlet Pipe Invert level (126.50 11062.7 12.682 0.438 Orifice Cd Volumetric error 0.00% 0.670 0.417 Weir CD Extraction Volume (m³) 12.729 0.6 0.0 12.778 0 406 Volume (m³) 12 830 0 4 0 0 0 2 4 8 10 6 12 12.886 0.398 31.0 31.0 12.945 0.397 30.5 30.5 13.010 0.396 30.0 30.0 13.082 0.360 29.5 0 279 29.5 13 163 29.0 29.0 13.260 0.243 13.386 0.233 RL (m) 28.5 28.5 13.690 0.232 28.0 28.0 21.610 0 000 27.5 27.5 -1.000 0.000 27.0 27.0 26.5 26.5 26.0 26.0 25.5 25.5 12.00 0.00 2.00 10.00 14.00 4.00 8.00 6.00 Flow (m3/s) Inflow and Outflow Hydrographs 2.5 2.0 1.5 Flow (m³/s) 1.0 0.5

10

15

Time (hr)

5

0.0

0

25

30

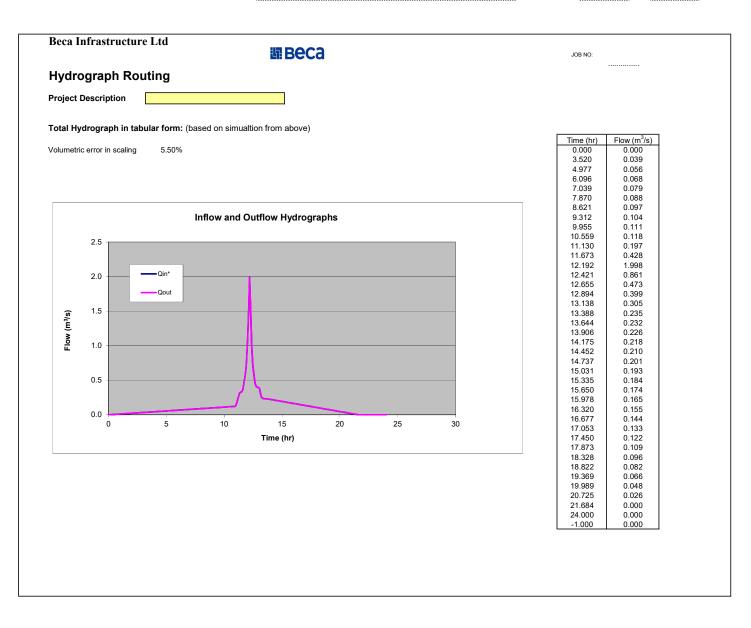
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Job Number 3124460 D Job Name Kohimarama Retirement Village

Date 14.02.20

Subject Proposed Stormwater C	Calc for a 1% AEP with Climate	e Change	
By Connor O'Boyle	Page No	of	





Job Number 3124460 Job Name Kohimarama Retirement Village Date 14.02.2020

Subject Proposed Stormwater Calc for a 1% AEP with Climate Change of

JOB NO:

Notes:

times.

Results:

time values.

Max. Flow (m³/s) -A

Max. Flow (m³/s) -B

Time (hr) at Max Flow

Time (hr) at Max Flow

Max. Flow (m³/s)

Volumetric Error

0.000

Time (hr) at Max Flow

By Conor O'Boyle

0

1. Input data should be in ascending order with time in the boxes provided. The maximum no. of values is 40. If a lesser no. of values is needed then terminate

2. The Time Lag is relative to the hydrograph

1.999

12.20

0.462

11.78

2.460

12.20

0.0%

3. Volumetric error is generally due to the interpolation and reassignment of

as a -1 for the x value.

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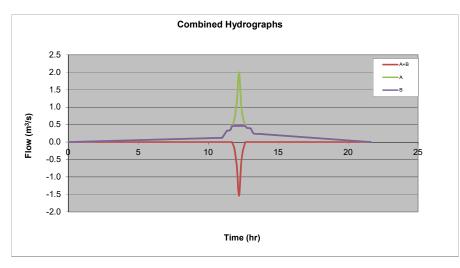
In Beca

Hydrograph Combination

Project Descr	iption	Separation of
Time Lag (min)	0] ті
Hydrograph A	\	н
Time (hr)	Flow (m ³ /s)	
0.000	0.000	
11.001	0.123	
11.347	0.327	i –
11.491	0.327	
11.601	0.354	i 🗖
11.694	0.456	1 🗖
11.776	0.536	1 🗖
11.850	0.601	
11.918	0.744	
11.981	0.965	
12.040	1.123	
12.096	1.456	
12.150	1.828	
12.201	1.999	
12.232	1.929	
12.264	1.699	
12.297	1.421	
12.331	1.182	
12.365	1.024	
12.400	0.906	
12.437	0.798	
12.474	0.710	
12.513	0.649	
12.553	0.602	
12.594	0.543	
12.637	0.481	
12.682	0.438	
12.729	0.417	
12.778	0.406	
12.830	0.400	
12.886	0.398	
12.945	0.397	-
13.010	0.396	
13.082	0.360	-
13.163	0.279	┥ ┝╸
13.260	0.243	} ┣
13.386 13.690	0.233	} ⊢
21.610	0.232	
-1.000		1 -
-1.000	0.000	I I

n of Flows in Manl	hole to Determ	ine Flows into	the Attenaut	ion Tank
Time Lag (min)	0			
nine Lag (min)	U			
Hydrograph B	3		Hydrograp	h A+B+C
		1		
Time (hr)	Flow (m ³ /s)		Time (hr)	Flow (m ³
0.000	0.000		0.000	0.000
11.001	0.123		11.001	0.000
11.347	0.327		11.347	0.000
11.491	0.327		11.491	0.000
11.601	0.354		11.601	0.000
11.694	0.456		11.694	0.000
11.776	0.462		11.776	-0.074
11.850	0.462		11.850	-0.140
11.918	0.462		11.918	-0.283
11.981	0.462		11.981	-0.503
12.040	0.462		12.040	-0.662
12.096	0.462		12.096	-0.995
12.150	0.462		12.150	-1.367
12.201	0.462		12.201	-1.537
12.232	0.462		12.232	-1.467
12.264	0.462		12.264	-1.238
12.297	0.462		12.297	-0.959
12.331	0.462		12.331	-0.720
12.365	0.462		12.365	-0.563
12.400	0.462		12.400	-0.445
12.437	0.462		12.437	-0.337
12.474	0.462		12.474	-0.249
12.513	0.462		12.513	-0.188
12.553	0.462		12.553	-0.141
12.594	0.462		12.594	-0.081
12.637	0.462		12.637	-0.020
12.682	0.438		12.682	0.000
12.729	0.417		12.729	0.000
12.778	0.406		12.778	0.000
12.830	0.400		12.830	0.000
12.886	0.398		12.886	0.000
12.945	0.397		12.945	0.000
13.010	0.396		13.010	0.000
13.082	0.360		13.082	0.000
13.163	0.279		13.163	0.000
13.260	0.243		13.260	0.000
13.386	0.233		13.386	0.000
13.690	0.232		13.690	0.000
21.610	0.000		21.610	0.000
-1.000	0.000		-1.000	0.000

Hydrograph A+B+C						
Time (hr)	Flow (m ³ /s)					
0.000	0.000					
11.001	0.000					
11.347	0.000					
11.491	0.000					
11.601	0.000					
11.694	0.000					
11.776	-0.074					
11.850 11.918	-0.140 -0.283					
11.981	-0.203					
12.040	-0.662					
12.096	-0.995					
12.150	-1.367					
12.201	-1.537					
12.232	-1.467					
12.264	-1.238					
12.297	-0.959					
12.331	-0.720					
12.365	-0.563					
12.400	-0.445					
12.437 12.474	-0.337 -0.249					
12.474	-0.249 -0.188					
12.513	-0.141					
12.594	-0.081					
12.637	-0.020					
12.682	0.000					
12.729	0.000					
12.778	0.000					
12.830	0.000					
12.886 12.945	0.000 0.000					
13.010	0.000					
13.082	0.000					
13.163	0.000					
13.260	0.000					
13.386	0.000					
13.690	0.000					
21.610	0.000					
-1.000	0.000					





Job Number 3124460 Job Name Kohimarama Retirement Village

JOB NO:

Start time (hr)

Finish time (hr)

Subject Proposed Stormwater Calc for a 1% AEP with Climate Change

By Conor O'Boyle

Stability Coefficient (0.5-1.0)

of

3124460

0.50

0

24

III Beca

Hydrograph Routing

Project Description

Inflow Hydrograph

Kohi - Attenuation Storage Catchment (P1-P19, P22, A1, A2	3 A8)
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Volume (m³)

117

235

352

470

499

558

704

822

939

1057

1174 1301

1373

1389

1399

1410 1416

1421

1428

Depth/ Volume Relationship

RL (m) 27.200

27.400

27.600

27.800

28.000

28.050

28.150

28 400

28.600

28.800

29.000

29.200 29.400

29.500

29.600

29.650

29.700

29.750 29.800

29.850

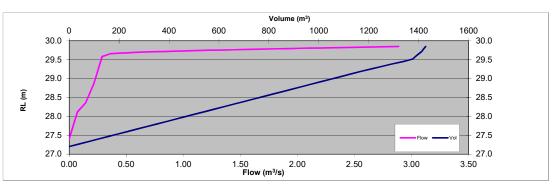
-1.000

11.001 0.000 11.347 0.000 11.491 0.000 11.601 0.000 11.694 0.000 11.776 0.074 11.850 0.140 11.981 0.283 11.981 0.503 12.096 0.995 12.150 1.367	Time (hr)	Flow (m3/s)
11.347 0.000 11.491 0.000 11.601 0.000 11.694 0.000 11.776 0.074 11.850 0.140 11.981 0.283 11.981 0.503 12.096 0.995 12.150 1.367	0.000	0.000
11.491 0.000 11.601 0.000 11.694 0.000 11.776 0.074 11.850 0.140 11.918 0.283 11.981 0.503 12.040 0.662 12.096 0.995 12.150 1.367		0.000
11.601 0.000 11.694 0.000 11.776 0.074 11.850 0.140 11.918 0.283 11.981 0.503 12.040 0.662 12.096 0.995 12.150 1.367	11.347	
11.694 0.000 11.776 0.074 11.850 0.140 11.918 0.283 11.981 0.503 12.040 0.662 12.096 0.995 12.150 1.367	11.491	0.000
11.776 0.074 11.850 0.140 11.918 0.283 11.981 0.503 12.040 0.662 12.096 0.995 12.150 1.367	11.601	0.000
11.850 0.140 11.918 0.283 11.981 0.503 12.040 0.662 12.096 0.995 12.150 1.367	11.694	0.000
11.9180.28311.9810.50312.0400.66212.0960.99512.1501.367	11.776	0.074
11.9810.50312.0400.66212.0960.99512.1501.367	11.850	0.140
12.0400.66212.0960.99512.1501.367	11.918	0.283
12.096 0.995 12.150 1.367	11.981	0.503
12.150 1.367	12.040	0.662
		0.995
12 201 1 537		1.367
12.201	12.201	1.537
12.232 1.467	12.232	1.467
12.264 1.238	12.264	1.238
12.297 0.959	12.297	0.959
12.331 0.720	12.331	0.720
12.365 0.563	12.365	0.563
12.400 0.445	12.400	0.445
12.437 0.337	12.437	0.337
12.474 0.249	12.474	0.249
12.513 0.188	12.513	0.188
12.553 0.141	12.553	0.141
12.594 0.081	12.594	0.081
12.637 0.020	12.637	0.020
12.682 0.000	12.682	0.000
12.729 0.000	12.729	0.000
12.778 0.000	12.778	0.000
12.830 0.000	12.830	0.000
12.886 0.000	12.886	0.000
12.945 0.000	12.945	0.000
13.010 0.000	13.010	0.000
13.082 0.000	13.082	0.000
13.163 0.000	13.163	0.000
13.260 0.000	13.260	0.000
13.386 0.000	13.386	0.000
13.690 0.000	13.690	0.000
21.610 0.000	21.610	0.000
-1.000 0.000	-1.000	0.000

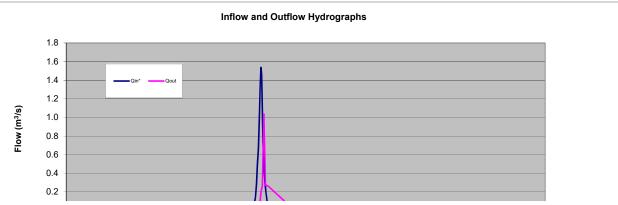
Flow Ra	ting Curve	ng Curve					
		Flow (m3/s)					
RL (m)	Orifice	Overflow	Total				
27.200	0.000	0.000	0.000				
27.400	0.000	0.000	0.000				
27.600	0.000	0.000	0.000				
27.800	0.000	0.000	0.000				
28.000	0.000	0.000	0.000				
28.050	0.000	0.000	0.000				
28.150	0.102	0.000	0.102				
28.400	0.152	0.000	0.152				
28.600	0.183	0.000	0.183				
28.800	0.209	0.000	0.209				
29.000	0.232	0.000	0.232				
29.200	0.253	0.000	0.253				
29.400	0.272	0.000	0.272				
29.500	0.281	0.000	0.281				
29.600	0.290	0.000	0.290				
29.650	0.294	0.000	0.294				
29.700	0.299	0.322	0.621				
29.750	0.303	0.911	1.214				
29.800	0.307	1.673	1.980				
29.850	0.311	2.576	2.887				
-1.000							
Tank Outflow Weir Level 28.10 tank Outflow Pipe RL 27.79							
Orifice Co	l low Diameter		0.670				
Tank Out	low Diameter		0.311				
Wall Leng	Ith		16				
Weir RL			29.65				

Weir RL Weir CD Extraction rate (m³/s) 0.00 1. Input data should be in ascending order in the boxes provided. The maximum no. of values is 40, 20 & 20. If a lesser no. of values is needed then terminate as a -1 for the x value. 2. If there is instability in the results then check that the depth/ vol. and/or the flow rating covers the flow range. Otherwise increase the stability coefff. towards 1.0. A value close to 0.5 has better accuracy. 3. Initial pond level will be taken as the RL corresponding to the initial flow on the inflow hydrograph. 4. Extraction rate applies to external pumping or infiltration. **Results:**

Max.Inflow (m ³ /s)	1.537
Time at Max. Inflow (hr)	12.19
Max. Outflow (m ³ /s)	1.037
Time at Max. Outflow (hr)	12.38
Initial RL (m)	27.200
Max. RL (m)	29.735
Max. Volume (m ³)	1413.9
Inflow Volume (m ³)	1837.7
Volumetric error	-6.18%
Extraction Volume (m ³)	0.0



0.600



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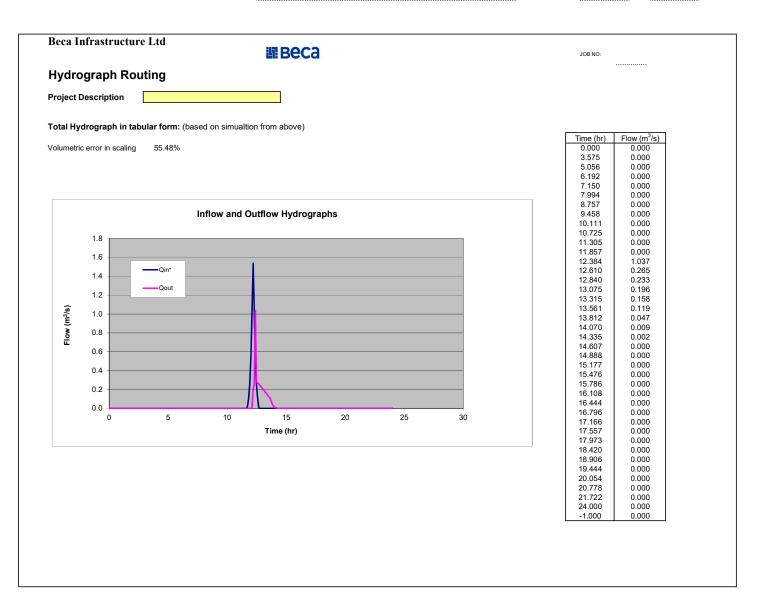


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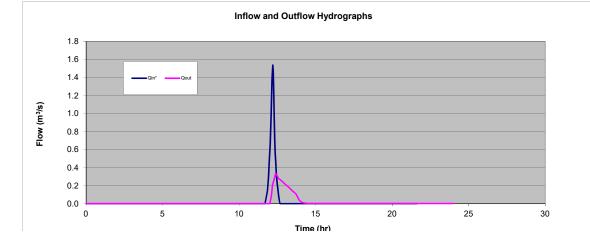
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III Beca

Hydrograph Routing

пушоўг	•	-									
Project Desc	cription	Kohi - Attenuation Stor	rage Catchment (P1-I	P19, P22, A1, A2 & A	(8)					coefficient (0.5-1.0)	0.70 0
Inflow Hydro		Denth/Ma	olume Relationship	Flow Ratin					Start time Finish tim	()	24
IIIIOW Hyuro	graph	Deptil/ VC	nume Relationship		ig cuive	Flow (m3/s)		1		rate (m ³ /s)	0.00
Time (hr)	Flow (m3/s) RL (m)	Volume (m ³)	RL (m)	Orifice	Overflow	Total	1	Extraction	rate (iii /s)	0.00
0.000	0.000	27.200		27.200	0.000	0.000	0.000		1 Input d	ata should be in as	endina order
11.001	0.000	27.400	117	27.400	0.000	0.000	0.000			oxes provided. The	
11.347	0.000	27.600	235	27.600	0.000	0.000	0.000			s is 40, 20 & 20. If a	
11.491	0.000	27.800	352	27.800	0.000	0.000	0.000		values is	needed then termi	nate as a
11.601	0.000	28.000	470	28.000	0.000	0.000	0.000		-1 for the	e x value.	
11.694	0.000	28.050	499	28.050	0.000	0.000	0.000			is instability in the	
11.776	0.074	28.150	558	28.150	0.102	0.000	0.102			eck that the depth/	
11.850	0.140	28.400	704	28.400	0.152	0.000	0.152			w rating covers the	
11.918	0.283	28.600	822	28.600	0.183	0.000	0.183			ise increase the sta	
11.981 12.040	0.503 0.662	28.800 29.000	939 1057	28.800 29.000	0.209 0.232	0.000 0.000	0.209 0.232			s 1.0. A value close accuracy.	to 0.5 has
12.096	0.002	29.000	1174	29.200	0.253	0.000	0.252			ond level will be tak	on as the Pl
12.150	1.367	29.400	1301	29.400	0.272	0.000	0.233			onding to the initial	
12.201	1.537	29.500	1373	29,500	0.281	0.000	0.281			iydrograph.	now on the
12.232	1.467	29.600	1389	29.600	0.290	0.000	0.290			ion rate applies to e	external
12.264	1.238	29.650	1399	29.650	0.294	0.000	0.294			g or infiltration.	
12.297	0.959	29.700	1410	29.700	0.299	0.322	0.621				
12.331	0.720	29.750	1416	29.750	0.303	0.911	1.214		Results:		
12.365	0.563	29.800	1421	29.800	0.307	1.673	1.980		Max.Inflov	v (m ³ /s)	1.537
12.400	0.445	29.850	1428	29.850	0.311	2.576	2.887		Time at M	lax. Inflow (hr)	12.19
12.437	0.337	-1.000		-1.000					Max. Outf	low (m ³ /s)	0.335
12.474	0.249							-		lax. Outflow (hr)	12.38
12.513	0.188				w Weir Level		28.10		Initial RL		27.200
12.553	0.141			tank Outflov	v Pipe RL		27.79		Max. RL (29.656
12.594	0.081			Orifice Cd			0.670		Max. Volu	· · · ·	1400.6
12.637	0.020			Tank Outflo	w Diameter		0.311		Inflow Vol		1837.7
12.682	0.000								Volumetri		0.00%
12.729	0.000			Wall Length	l		16		Extraction	Volume (m ³)	0.0
12.778	0.000			Weir RL			29.65				
12.830	0.000			Weir CD			0.600	l			
12.886 12.945	0.000 0.000					Volume	(m ³)				
13.010	0.000		0 20	0 400	600	800	1000	1200	1400	1600	
13.082	0.000	3	80.0						-	30.0	
13.163	0.000									00.5	
13.260	0.000	2	29.5							- 29.5	
13.386	0.000		29.0							29.0	
13.690	0.000		.5.0			_				23.0	
21.610	0.000	2 آلا لا	28.5							28.5	
-1.000	0.000										
		2	28.0		/					28.0	
										07.5	
		2	27.5						Flow -	27.5	
			27.0							27.0	
		4).50 1.00	1.50	0 2.0	00	2.50	3.00	3.50	
				1.00		Flow (m ³ /s)			0.00	0.00	
		L									

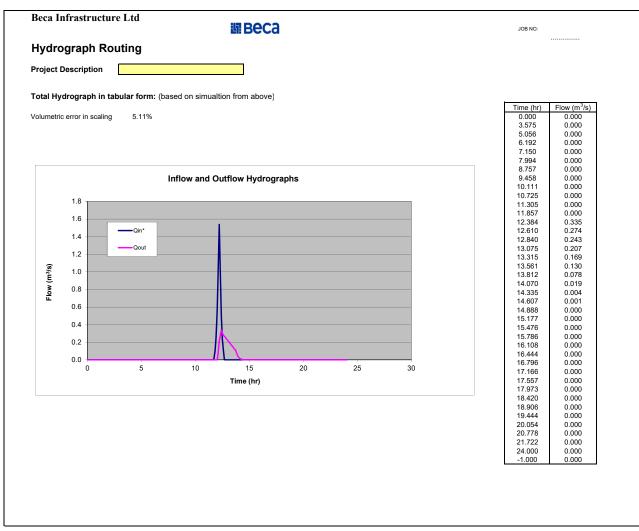


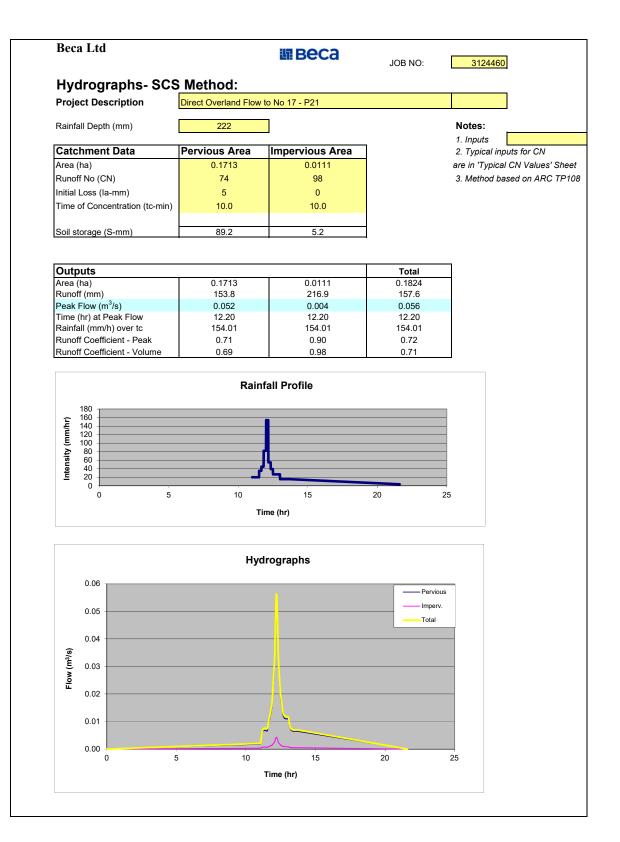
Hydrograph Routing

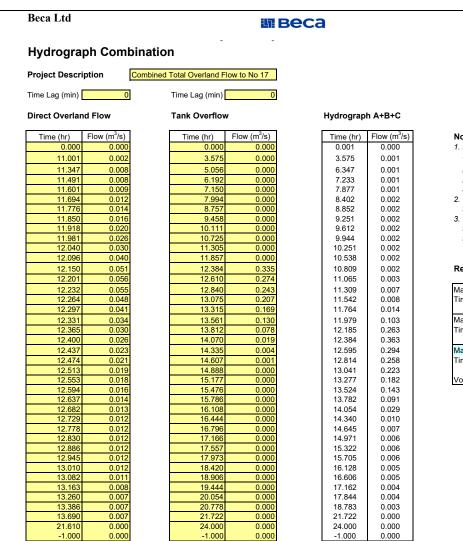
3124460

JOB NO:

Sensitivity: General







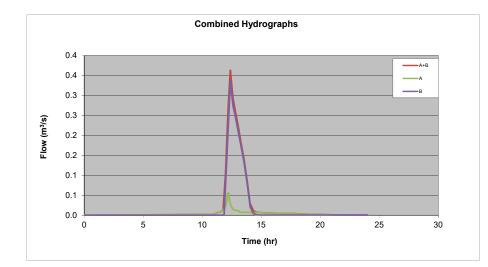
Notes:

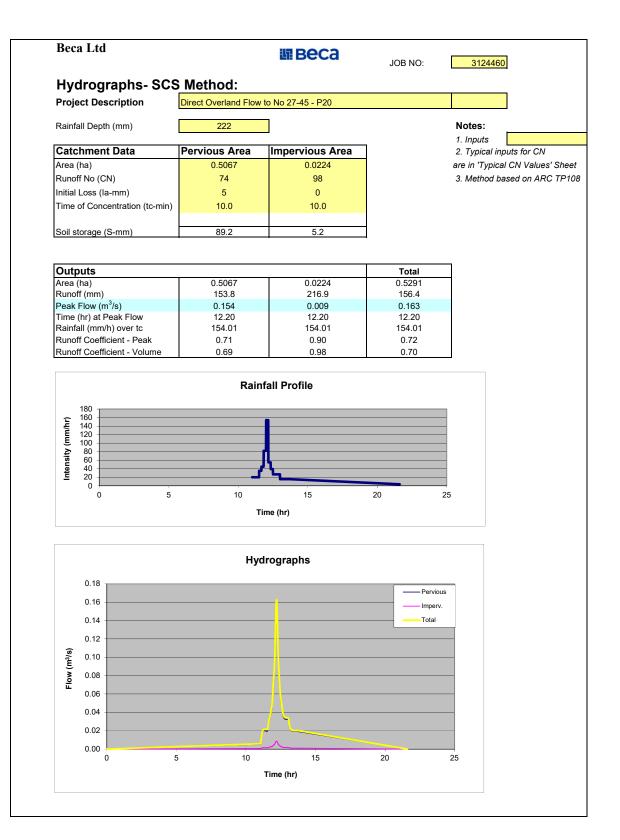
JOB NO: 0

- Input data should be in ascending order with time in the boxes provided. The maximum no. of values is 40. If a lesser no. of values is needed then terminate as a -1 for the x value.
- 2. The Time Lag is relative to the hydrograph times.
- Volumetric error is generally due to the interpolation and reassignment of time values.

Results:

Max. Flow (m³/s) -A	0.056
Time (hr) at Max Flow	12.20
Max. Flow (m ³ /s) -B	0.335
Time (hr) at Max Flow	12.38
Max. Flow (m ³ /s)	0.363
Time (hr) at Max Flow	12.38
Volumetric Error	0.0%







Job Number 3124460

Date 14.02.2020

Calculation Sheet

Job Name Kohimarama Retirement Village

Subject Proposed Stormwater Calc for a 1% AEP with Climate Change By Conor O'Boyle Page No of

Beca Ltd **III Beca** 3124460 JOB NO Hydrographs- SCS Method: Project Description Direct Overland Flow to No 17 - P21 Total Hydrograph in tabular form: (based on simulation from above) Flow (m³/s) 0.01% Volumetric error in scaling Time (hr) 0.000 0.000 11.001 0.002 Hydrographs 11.347 0.007 11.491 0.007 11.601 0.008 0.06 11.694 0.011 Pervious 11.776 0.013 0.05 Imperv 11.850 0.014 Total 11.918 0.018 0 0 2 4 11.981 0.04 12.040 0.028 Flow (m³/s) 12.096 0.037 0.03 12.150 0.047 0.052 12.201 0.051 0.02 12.232 12.264 0.045 12.297 0.038 0.01 12.331 0.032 12 365 0.027 12.400 0.024 0.00 12.437 0.022 0 5 10 15 20 25 12.474 0.019 Time (hr) 12.513 0.018 12.553 0.016 12.594 0.015 12.637 0.013 12.682 0.012 12.729 0.011 12.778 0.011 12.830 0.011 12.886 0.011 0.011 12 945 13.010 0.011 13.082 0.010 13.163 0.008 13.260 0.007 13.386 0.007 13.690 0.007 21.610 0.000 -1.000 0.000



Appendix D – Pre-application memo



Pre-Application Consenting Memo

Pre-Application No. PRR00031670			
Date of request	10/06/2019		
Customer	Ryman Healthcare		
Contact details	Phone Karen Joubert; 0211089447		
	Email	karen.joubert@mitchelldaysh.co.nz	
Site address	223 Kohimarama Road Kohimarama Auckland 1071 and 7 John Rymer Place		

Please note that there may be hyerlinks throughout the memo which are underlined. Please click on the highlighted text for further information.

Resource Management Documents			
Auckland Unitary Plan	Zoning	Residential - Mixed Housing Urban Zone	
(Operative in part)	Precinct	NA	
	Overlays	NA	
	Controls	Controls: Macroinvertebrate Community Index - Urban	
	Designations	NA	
	Appeals	NA	
	Plan Changes	NA	
Other Relevant Acts	Hauraki Gulf Marine Park Act		

Property Information	
Legal Description	Lot 1 DP 332284: 223 Kohimarama Road Lot 51 DP 163242: 7 John Rymer Place
Certificate of Title	This has not been viewed, so there may be easements, building line restrictions and other restrictions that need to be taken into account in preparing any development proposal. If the title is 'limited as to parcels', you may need to get this surveyed, particularly where some of the controls, are reliant on accuracy being insured.



Site constraints Type	Y	Ν	Site constraints Type	Y	N
(Potential) Contaminated Land	\boxtimes		Coastal Erosion		\boxtimes
Land Instability		\boxtimes	Coastal Storm Inundation		\boxtimes
Floodplain	\boxtimes		Coastal Storm Inundation (plus 1m sea level rise)		\boxtimes
Overland flow paths (ephemeral/intermittent/permanent stream)	\boxtimes		Cultural Heritage Inventory		\boxtimes
Flood Sensitive	\boxtimes		Combined Network		\boxtimes
Arterial Roads	\boxtimes		Building Frontage Control		\boxtimes
Vehicle Access Restriction Control	\boxtimes		Geology (rock breaking)		\boxtimes

Meeting Record

Meeting Record			
Date	19/12/2019 (Stormwater discussions)		
Council Officers	Maree Gleeson – Specialist, Healthy Waters		
	Christina Bloom – Streamwaters Specialist, Auckland Council		
	Arsini Hanna – Senior Stormwater Specialist, Auckland Council		
	Masato Nakamura – Senior Planner, Resource Consents		
Customer	Meeting Attendees:		
	Karen Joubert – Associate Planning Consultant, Mitchel Daysh;		
	Matthew Brown – Ryman Development Manager;		
	Conor O'Boyle – Beca, Associate Civil Engineer;		
	Ron Melton – Beca, Technical Director – Land Development;		
	Blaise Cummins – Beca, Technical Director / Principal Engineer;		
	Jack Turner – Tektus, Director, Engineer, Planner; and		
	Richard Turner Mitchell Daysh, Director, Planner;		

Relevant matters discussed at the meeting				
Background and Proposal	• A catchment wide analysis has been undertaken to determine the stormwater flows and discharge routes as it currently stands. The catchment has an area of 19ha, which is an excess of what the network in the local area is designed to take. The overland flow paths within the area also follows the general pattern of stormwater pipes.			



	 There is a 450mm (although inconsequential in terms of the minutes), pipe currently existing in the site. It is likely that this is an asset that was never vested to Healthy Waters from the past, when John Rymer Place was developed. From the site boundary to John Rymer, this is a 600mm line. A CCTV survey has been conducted for these lines. It is noted that these networks were not designed for climate change.
	 The existing lines on the site has a capacity of 700-750L/s (this has yet to be confirmed). Any volume and velocity beyond this will cause flooding.
	 The overland flow path on Kohimarama Road does not enter the subject site. The proposal will be designed to ensure that this arrangement continues.
	• With regards to down stream properties, there are buildings which do not provide freeboard, with fences which obstruct the flow path. In terms of flooding effects within the environment.
	• The subject site naturally provides attenuation and floodwater storage and attenuation. The applicant team views this as the baseline to how the stormwater effects should be assessed for the proposal.
	 Hydrology mitigation under E8 or the NDC will not be proposed. Further discussion and details are to be provided pending availability.
Questions to the Council Team	 With regards to the region wide NDC, whether the proposal should be assessed using the greenfield or brown field development criteria. The preferred position of the applicant team is that the brownfield development criteria is adopted, noting that the requirements of greenfield development would not be able to be complied with.
	 As the existing network was not designed for climate change, whether the proposal should also take into account the climate change is queried.
	• Whether the existing level of surcharge can be proposed onto the network as a result of the proposal. In other words, can the full capacity of the line be used as part of the discharge of stormwater from this proposal.
	 Whether the existing attenuation (occurring naturally) on the subject site can be factored into the assessment for the proposal.
	 The response to these questions will provide the parameters for further refinement and detailed design.



The Options	Three options were outlined by the applicant team. The option
	selected are dependent on the response from Council regarding the matters raised above, as this will set parameters moving forward for the applicant team.
	 Option 1: Onsite attenuation only. No new outlet; relying solely on the existing network.
	• Option 2: Capture stormwater at the top of the site, and discharge to outlet in the creek to the west of the site. This option is likely to be made public. Would rely on a new outlet.
	 Option 3: Capture stormwater within the site, and discharge to the outlet as per above (would rely on a new outlet). This option is likely to be private.
	 Regardless of the options, the intention is to direct as much stormwater as possible to the public line.
Outlet Locations	 Depending on the discharge option adopted, a new outlet structure will be proposed to the stream to the west of the subject site. Regardless of the options adopted, the proposed location of the outlet is likely to be the same. The location of the outlet will be further down the contours, further than originally designed during past discussions.
	 The applicant team should be mindful of the walking track proposal within the creek, and whether the proposed outlet and associated works will have an impact.
Other	• The applicant team also suggested whether surcharge impacts onto properties connecting to the network can be assessed post consent. This is not supported by the officers, noting that this is likely a matter which will also be discussed at the hearing down the track. The Council will also want to be clear on the extent of the adverse effects associated with the proposal.

Following the meeting, a table outlining the design criteria and values Ryman is proposing was provided by Ms Joubert. Maree Gleeson from Healthy Waters provided comments following review of the table, and Paula Vincent provided input on the NDC questions. The table is intended to be used as guidance for the decision to be made on the preferred stormwater options for the development.

	Design Criteria Options	Proposed Criteria	ни	/D response 16-1-2	20	
Existing Situation						
Design Rainfall	TP108 data without climate change allowance Or TP108 data with climate change allowance.	TP108 data without climate change allowance. The existing downstream network would not have been designed with climate change allowance. In addition to this, it does not have sufficient capacity to accommodate the existing 1 in 10 year flows from the catchment when climate change is considered, even when the attenuation effects of the hollows on-site is considered. Existing networks are not upgraded to accommodate climate change, instead climate change results in reducing level of service.		e below the design i d 100yr ARI : Rainfall (10yr and 100yr) TP108 without CC	Existing Development Scenario design flows (existing network with existing on-site attenuation) X	Assessment for 10yr Post Development Scenario design Flows (existing network with proposed on-site attenuation) X I/s
				TP108 with CC	X I/s	X I/s
Capacity Assessment of the Downstream Network	Existing downstream network allowed to be surcharged when estimating the existing capacity of the network. Or Existing capacity of the network estimated based on unsurcharged conditions.	Existing downstream network allowed to be surcharged when estimating the existing capacity of the network. This reflects what the pipe capacity actually is, as the network will surcharge prior to causing surface ponding or overland flow downstream.	on cor the fror dwo	un-surcharged cond neern about surchar existing public store m the network if the	sting stormwater netwo ditions. The reason for t ging of the private drain mwater network and the network is functioning mer place is located di <i>N</i> network.	this approach is nage connected to e risk of exfiltration under pressure. The

Degree of pipe blockage when estimating secondary overland flows	Values between 0% and 100%	80% An open channel is located upstream of both of the pipes on-site which appears not to be regularly maintained.	The SW COP indicates for pipes less than or equal to 600 mm dia, 100% blockage should be assumed when determining the 100yr ARI flows (overland flows via the secondary flow path)
Existing Peak Flow Estimates	Accounting for the reduction in existing peak flows from the 'accidental' hollows on- site providing attenuation. Or Not accounting for the reduction in existing peak flows from the 'accidental' hollows on- site providing attenuation.	Accounting for the reduction in existing peak flows from the 'accidental' hollows on-site providing attenuation. Although the hollows were created not by design, they are attenuating the peak flows from the site and reducing the flood risk to downstream properties.	As advised above the existing peak flow estimate can consider the existing on site attenuation mentioned at the meeting 19-12-19.
Roughness value of downstream	0.6	<u>0.6</u>	1.5 to comply with SW COP
pipework when estimating capacity	or 1.5	The existing network would likely have been designed based on a pipe roughness value of 0.6. Although a value of 1.5 is quoted in the stormwater code of practice, there is a lot of literature recommending a value of 0.6.	
Existing catchment upstream of John	The actual existing stormwater catchment of	For both the existing and proposed network calculations we are using what	Agree with this approach.

Rymer Place (including Selwyn College & Kohimarama Road)	John Rymer Place has been found, through on- site investigations to be larger to the catchment used in the Water Right and in the John Rymer Place network design. This further exacerbates the existing network capacity issues.	we believe to be the actual catchment boundaries that we have estimated, based on our investigation on-site.	
Proposed Situation	n		1
Design Rainfall	TP108 data without climate change allowance Or TP108 data with climate change allowance.	TP108 data without climate change allowance. Should be the same as the existing situation.	As above rainfall with and without climate change is usually the assessment HWD would ask for.
Capacity Assessment of the Downstream Network	Same as the existing situation Or Maximum surcharge of the pipe that doesn't	Maximum surcharge of the pipe that doesn't result in surface ponding or overland flow in the 1 in 10 year event. Conveying a greater peak flow in the downstream pipe network will reduce the overland flow from the site. Proposed attenuation volumes are very sensitive to the proposed peak outflows from the site.	As above the capacity of the existing SW network should be estimated based on un-surcharged conditions.

Degree of pipe blockage when estimating secondary overland flows	result in surface ponding or overland flow in the 1 in 10 year event. Values between 0% and 100%	50% The likelihood of blockages in the proposed network should be much less than the existing as it will be regularly maintained and the pipe inlets from the proposed stream will be designed to mitigate the risk of blockages.	The SW COP indicates for pipes less than or equal to 600 mm dia, 100% blockage should be assumed when determining the 100yr ARI flows -overland flows via the secondary flow path.
Site considered to be Brownfields or Greenfields in accordance with the Network Discharge Consent	Brownfields Or Greenfields	Brownfields Our site is an undeveloped site in the middle of a brownfield catchment, receiving flows from the upstream college and Kohimarama Road and discharging into a piped network downstream which is located under many residential properties.	 Agree Brownfields large is appropriate for assessment under HWD SW regional NDC - schedule 4 the site is an island of undeveloped land in a catchment that is already urbanized and has been for a long time. This places some constraints on the applicant with regards to pipe capacity which seemed to be their biggest issue with the possibility of the SMP being considered under greenfield requirements. subsequent to the SMP meeting Schedule 4, the SMP would be able to be adopted into the NDC through the Schedule 8 process The applicant may seek to create a new discharge point into the stream. We note that if the site was a pure greenfield site this would trigger a different process for adopting an SMP under condition 13c of the NDC. However in this instance the site already has an urban zoning which means the site is exempt from condition 13c. The SMP can therefore be adopted via the Schedule 8 process. For clarity, the applicant may progress the adoption of the SMP via Schedule 8 and meet Brownfields large in Schedule 4.

Hydrological Mitigation	Is retention / detention required for hydrological mitigation?	No The point of discharge is to a relatively low velocity stream which is approximately 250m from the tidal estuary. Therefore it is considered there may be limited hydrological benefit of providing retention / detention volumes at the site. We suggest a site visit with Healthy Waters along with the design team would be useful to help confirming this.	 Yes - refer schedule 4 Brownfields large . The requirements for water quality and stream hydrology management are the same for both greenfield and large scale brownfield. The site is upstream of an SEA-Terrestrial (Purewa Stream). Consideration of how any adverse effects of stormwater on the SEA are managed are required by the general matters that an SMP must address and these apply to both greenfield and large scale brownfield.
Roughness value of downstream pipework when estimating capacity	0.6 or	0.6 Should the same as the existing situation.	1.5 as per SW COP.
	1.5		



Preliminary view on outcome and process

In terms of the notification process, the Council officers recommend that the application is lodged on a publicly notified basis. Further details are required to be provided for the Council form a conclusion on the overall outcome of the proposal.

This is a preliminary view only. A final determination on whether Council can support the consent or not can only be made upon receipt of a formal application, site visit and review.

Resource Consent Stra	ategy	
Specialist Assessments	You may need to provide written specialist report(s) to support your application, depending on the scale and significance of your proposal. As described above, in this case at a minimum the following is considered necessary:	
	 Draft Construction Management Plan Draft Construction Traffic Management Plan Construction Noise and Vibration Assessment Traffic Report Geotechnical and Groundwater Report Flood report (including hazard risk assessment) Infrastructure Assessment Landscaping Strategy, Landscape Plan and Maintenance Program Stormwater Management Plan Draft Erosion Sediment Control Plan 	

General Information	
Development Contributions	Development contributions are the fees charged by the council for extra community and network infrastructure needed as a result of development projects. You will pay development contributions for residential and commercial development such as new houses, and subdivisions. The money collected from development contributions pays for the cost of public infrastructure that is needed to meet the additional demand from growth. This includes network infrastructure such as stormwater and transport, open space reserves and community facilities. To get an



indication of the contribution please use the <u>Development Contributions</u> <u>Estimator</u> .
Water supply and wastewater services are not included in the Development Contribution. This is covered in the <u>infrastructure growth</u> <u>charge</u> . This charge is administered by Watercare.

Important Information

The purpose of a pre-application is to facilitate communication between applicants and the council so that the applicant can make informed decisions about applying for consents, permits or licences.

The views expressed by council staff in or following a pre-application are those officers' preliminary views, made in good faith, on the applicant's proposal. The council makes no warranty, express or implied, nor assumes any legal liability or responsibility for the accuracy, correctness, completeness or use of any information or views communicated as part of the pre-application process.

The applicant is not required to amend their proposal to accommodate the views expressed by council staff. Further, it remains the applicant's responsibility to get their own professional advice when making an application for consents, permits or licences, and to rely solely on that advice, in making any application for consents, permits or licences.

The council acknowledges that the confidential nature of pre-application meetings is important to encourage future applicants to engage with the council and attend pre-application meetings. By attending a pre-application meeting, both parties expect that the meetings are held in confidence and the intention is that the associated information that is provided to the council at these meetings, and the meeting minutes, will remain confidential. However, under the Local Government Official Information and Meetings Act 1987 any person may request any information that is provided to, and held by, the council. The council can only withhold requested information where there is a good reason and it is in the public interest. This is assessed on a case by case basis."

All consent applications become public information once lodged with council. Please note that council compiles, on a weekly basis, summaries of lodged resource consent applications and distributes these summaries to all local boards and all mana whenua groups in the Auckland region. Local boards and mana whenua groups then have an opportunity to seek further details of applications and provide comment for council to take into account.



Title:

Senior Planner, Resource Consents

Signed:

Sal

Date:

10/02/2020



Pre-Application Consenting Memo

Pre-Application No. PRR00031670		
Date of request	10/06/2019	
Customer	Ryman Healthcare	
Contact details	Phone	Karen Joubert; 0211089447
	Email	karen.joubert@mitchelldaysh.co.nz
Site address	223 Kohimarama Road Kohimarama Auckland 1071 and 7 John Rymer Place	

Please note that there may be hyerlinks throughout the memo which are underlined. Please click on the highlighted text for further information.

Resource Management Documents		
Auckland Unitary Plan	Zoning	Residential - Mixed Housing Urban Zone
(Operative in part)	Precinct	NA
	Overlays	NA
	Controls	Controls: Macroinvertebrate Community Index - Urban
	Designations	NA
	Appeals	NA
	Plan Changes	NA
Other Relevant Acts	Hauraki Gulf Marine Park Act	

Property Information	
Legal Description	Lot 1 DP 332284: 223 Kohimarama Road
	Lot 51 DP 163242: 7 John Rymer Place
Certificate of Title	This has not been viewed, so there may be easements, building line restrictions and other restrictions that need to be taken into account in preparing any development proposal. If the title is 'limited as to parcels', you may need to get this surveyed, particularly where some of the controls, are reliant on accuracy being insured.



Site constraints Type	Y	Ν	Site constraints Type	Y	Ν
(Potential) Contaminated Land	\boxtimes		Coastal Erosion		\boxtimes
Land Instability		\boxtimes	Coastal Storm Inundation		\boxtimes
Floodplain	\boxtimes		Coastal Storm Inundation (plus 1m sea level rise)		\boxtimes
Overland flow paths (ephemeral/intermittent/permanent stream)	\boxtimes		Cultural Heritage Inventory		\boxtimes
Flood Sensitive	\boxtimes		Combined Network		\boxtimes
Arterial Roads	\boxtimes		Building Frontage Control		\boxtimes
Vehicle Access Restriction Control	\boxtimes		Geology (rock breaking)		\boxtimes

Meeting Record

Meeting Record	
Date	Streamworks and Planning (Onsite) – 19/06/2019
	Urban Design and Landscape (Onsite) - 25/06/2019
	All (Graham Street) – 27/06/2019
Council Officers	Meeting Attendees:
	Sheerin Samsudeen – Principal Urban Design, Design Review
	Ainsley Verstraeten - Principal Landscape Architect, Design Review
	Maree Gleeson – Specialist, Healthy Waters
	Matthew Revill – Project Manager, Regulatory Engineering
	Vinh Bui – Principal Traffic Engineer, Regulatory Engineering
	Masato Nakamura – Senior Planner, Resource Consents
	Jennifer Chivers – Team Leader, Resource Consents
	Pre-Meeting Comments:
	Matt Byrne - Streamworks Specialist, Specialist Unit
	Jin Lee – Development Engineer, Regulatory Engineering
Customer	Meeting Attendees:
	Ann O'Meagher – Architect, Beca
	Richard Jenkins - Civil Engineer, Beca
	Clinton Bird - Urban Designer



Rebecca Skidmore - Landscape architect
Leo Hills - Traffic Engineer, Commute
Phil Mitchell – Planning Consultant, Mitchell Daysh
Karen Joubert – Planning Consultant, Mitchell Daysh
Richard Montgomerie - Streamworks Specialist, Freshwater Solutions

Relevant matters	
Proposal	The proposal is for the establishment of a new retirement village, considered as an Integrated Residential Development.
	The proposal in terms of built form is made up of seven new buildings labelled as $B01 - B07$. $B01$ is a larger building complex located to the northern side of the site, with buildings $B02 - B07$ being apartment buildings located across the rest of the site.
	The buildings range from three to five storeys in height, arranged in a stepped manner responding somewhat to the contours of the subject site.
	In terms of access and parking, the proposal creates a private accessway which links from Kohimarama Road down to John Rymer Place in a two- way direction. Parking is proposed to be provided at basement level under the buildings on the northern side of the site. A loading space will also be provided on site to service the retirement village.
	There is an identified stream on the subject site. This stream is proposed to be diverted closer to the eastern boundary of the subject site, to accommodate for the proposed building platform for B01.
Streamworks	 The Council officers confirm that the activity to be applied to the diversion of the watercourse will be considered as E3.4.1 (A19). This will be a discretionary activity. The reclamation provisions should not be applied in this instance. The officers also agree that the identified stream to be diverted is classified as an intermittent stream, with further assessment being required to determine its nature after 01/07/2019. In the event this stream is to be used for stormwater management purposes, this will also need to be considered in terms of the stream ecology. There is no stream identified on the western part of the subject site. We see this as an error on the GIS mapping.
Construction &	Construction
Earthworks	Noting the scale of the proposal as well as the sensitivities of the residential activities nearby, a series of information in relation to the construction activity will need to be provided up front. This would include:
	Draft Construction Management Plan



	Draft Construction Traffic Management Plan (to be reviewed in conjunction with Auckland Transport)
	 An assessment of residential amenity impacts from the traffic movement
	 Confirmation on whether rock breaking, or impact piling would occur during the works
	Noise and vibration assessment
	Even without rock breaking or impact piling, construction of this scale can easily infringe the noise and vibration standards of the zone.
	In addition, if construction is proposed for greater than 24 months (above ground), this triggers an additional reason for consent under E40.4.1 (A20)
	Earthworks
	Please provide a <u>clear earthworks plan</u> showing the area, volumes and locations of cut and fill, the maximum depths of cut and fill and the height of any retaining structures. (note: earthworks imbalances greater than 1000 m ³ need Auckland Transport involvement)
	Please note that the plans indicate excavations greater than 2.0 m which may have dewatering effects which should be assessed. The application would need to be supported by an <u>assessment of the proposed activity</u> <u>against AUP Standards E7.6.1.6 & E7.6.1.10</u> to determine if the proposal is a Permitted Activity.
	Please provide a clear erosion and sediment control plan including monitoring of erosion and sediment control procedures.it is expected that the proposal will trigger regional consent for earthworks under chapter E11, and this document will be reviewed by the regional earthworks team.
	The proposed development is significant in terms of scale and anticipated excavations. It also appears to be over existing geomorphic gullies and areas which have been identified as being susceptible to land instability under the definition within the AUP. Please provide a geotechnical report supporting the proposed development including site specific assessments, intrusive testing, assessment of geotechnical risks including slope stability analyses and settlement and clear recommendations for anticipated earthworks.
	The geotechnical assessment must also include reference to the chapter E36, which includes geotechnical hazards. This should be applied where instability is identified on the subject site, as part of further investigations by the applicant team.
Servicing	Infrastructure:
	The application would need to be supported by an <u>infrastructure report</u> for stormwater, wastewater and water supply matters.



Wastewater and Water Supply (Watercare):Due to the proposed height of the development, please provide a recent (within 12 months) fire hydrant test to confirm adequate water supply pressures to service the development.Please provide a clear plan showing the proposed connections for wastewater and water supplyPlease provide a clear plan showing the proposed connections for wastewater and water supplyPlease provide the peak wet weather flows calculations for the existing and proposed development as well as the upstream and downstream networks and confirm the capacity of the wastewater network is sufficient for the proposed development.Please note that due to the scale of development, we would require Watercare to provide input to the assessment. When the above information is provided, we would require the applicant to fill the attached form for us to send through to Watercare for assessment.Careful consideration should be given to where the private network meets the public network.Stormwater:The report will also need to provide assessment of downstream Network Capacity (10yr ARI). Any extension of public stormwater network infrastructure would require Engineering Plan Approval.Flooding and StormwaterStormwater:The total impervious area for the development will need to be calculated and confirmed whether any regional consents are triggered in this regard. In the event a regional consent is triggered, a stormwater management plan will need to be provide a plan showing the locations of the stormwater mitigation is proposed, please provide a plan showing the locations of the stormwater mitigation devices so that we can confirm installation feasibility. Increased runoff from the development and assessment on existing downstre		
Flooding and StormwaterStormwater: The total impervious area for the development will need to be calculated and confirmed whether any regional consents are triggered in this regard. In the event a regional consent is triggered, a stormwater management plan will need to be provide which shows the proposed stormwater mitigation devices so that we can offirm showing the proposed for the state is proposed.Floading and proposed development as well as the upstream and downstream networks and confirm the capacity of the wastewater network is sufficient for the proposed development. Please note that due to the scale of development, we would require Watercare to provide input to the assessment. When the above information is provided, we would require the applicant to fill the attached form for us to send through to Watercare for assessment. Careful consideration should be given to where the private network meets the public network.Stormwater: The report will also need to provide assessment of downstream Network infrastructure would require Engineering Plan Approval.Floading and stormwaterStormwater: Data would need to be provide which shows the proposed stormwater reconnections and any management devices. If stormwater management plan will need to be provide which shows the proposed stormwater mitigation is proposed, please provide a plan showing the locations of the stating is proposed, please provide a plan showing the application is proposed, please provide a plan showing the locations of the stating installation feasibility. Increased runoff from the development and assessment on existing downstream 100yr +CC OLFP in 17-19 John Rymer Place and 35a John		Wastewater and Water Supply (Watercare):
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downstream 100yr +CC OLFP in 17-19 John Rymer Place and 35a John		connections and any management devices. If stormwater mitigation is proposed, please provide a plan showing the locations of the stormwater
		downstream 100yr +CC OLFP in 17-19 John Rymer Place and 35a John
The proposal will require the consideration of the objectives and policies under chapter E1 for additional mitigation. Whilst the site is not identified as a SMAF area, water sensitive design approach required.		under chapter E1 for additional mitigation. Whilst the site is not identified
The officers (Maree Gleeson) will confirm whether a network discharge consent will be required for this proposal.		



	Notion the cost of development (1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0
	Noting the scale of development, storage and attenuation of the stormwater will be required on site. Maintaining pre-development flow should be given priority.
	How the run-off and flows from the podium structure should also be confirmed and included into the documentation to be provided.
	Flooding:
	There are identified flooding hazards on the subject site. The application will need to be supported by an <u>overland flow path report</u> addressing the overland flow paths onsite. This should include but is not limited to:
	 An assessment of the existing and proposed overland flow path characteristics (velocity, depth, level in m RL, flow, extent)
	• A plan showing the location and extent of overland flows through the existing and proposed site
	 Relevant cross sections demonstrating overland flow behavior
	• Confirmation of the entry and exit points of the overland flow path has not been altered, and if so, the effects of this
	 Confirmation that the capacity of flows has not been reduced as a result of works
	 Comment on the boundary fencing aligning with the requirements of AUP Standards E36 for the conveyance of overland flows
	• A <u>risk assessment as per AUP Standards E36.9</u> in relation to the development, activity and safety of persons and vehicles.
	In addition, attention should be paid to any change to the flooding levels as a result of the diversion of the stream.
Traffic:	The application would need to be supported by a detailed traffic assessment. This should include:
	 SIDRA analysis at the northern vehicle access/ Kohimarama Rd, southern vehicle access/John Rymer Place and John Rymer Place/Kohimarama Rd.
	• Traffic generation from the activity as it relates to the nearby schools and other activities.
	 Address loading requirement, rubbish truck, servicing vehicles, truck tracking curves.
	 Address parking requirement, parking dimensions, manoeuvring dimensions, car tracking curves and show location of structural columns within the basement parking area.



 A long section should be prepared for the two access points to the public road.
 The circulation and movement of pedestrians should also be addressed.
 Address bicycle parking, disabled parking and draft construction traffic management plan including an estimation of number of heavy vehicle movements per peak hour and per day.
It is accepted that the traffic generation levels and peak times for the retirement village will be different than what is usually expected. This is noting the demographic expected within the development.
The proposal has been reviewed by Auckland Transport for their preliminary comments. This is attached into this memo as attachment 1.
 The following is noted from an urban design and landscape perspective: As the proposal currently stands, building B01 appears to be of a significant bulk and length. It is recommended that the building is broken up visually to reduce the dominance and building length.
 The proposal to break up the built form into different apartment blocks (B02 – B07) is supported. However, further detail is required to understand how the podium works with the existing ground level. Consideration should also be given to integrated landscaping works as to how these group of buildings not read as one big mass.
• Further cross sections showing the full width of the site and including the adjacent sites should be provided, not just segments for each building. This is required to understand to have a holistic view of the proposal as it relates to the adjacent sites. (refer mark-up on Attachment 2)
 Sections to show the relationship between the north- eastern residential sites along Kohimarama Road should also be provided.
 Visual Simulations: As mentioned at our site visit we previously raised questions around the visual simulations provided. While it is helpful to provide the panoramic 'visual simulations' for context it is common practice to also include a single frame image provided separately on an A3-size page with a reading distance to page of between 400mm – 500mm. The NZILA best practice guide for the preparation of visual simulations outlines how panorama images should be prepared and presented. In addition to this please ensure that vegetation included in the simulations is shown at 5-years growth, rather than at 10-years as illustrated on previous applications.



 Viewpoint locations: The officers generally support the viewpoints suggested for analysis by the applicant team. Since the pre-app meeting Ms Verstraeten reviewed the viewpoint locations provided and understands that it is not proposed to provide all of these however the following are the preferred locations from a landscape and visual effects perspective as well as a number of additional ones that should be considered. Please note I have not had a chance to confirm these onsite – however I plan to do so next week.
VP101
VP104
VP106
VP108
VP109
VP115
VP117
Additional:
- From near the traffic island in John Rymer Place
- Looking between 25 & 31 John Rymer Plc
- Outside 279 Kohimarama Road
- Outside of 20 Ashwell St
 Ms Samsudeen requested an additional view point further west at the end of John Rymer Road is required to understand the full extent of the dominance effects presented by this proposal, onto the residential sites to the south of the subject site. This is included in this list above.
• Landscape strategy / framework plan or document. On previous applications we commented that the landscape plan (or Tree master plan) went into the detail of individual tree species before providing an overall landscape masterplan that explains things like the landscape design principles, inspiration, or framework plan to better understand the design rationale. I have included below the commentary from the Scott Road Landscape S92 request as I consider it to be relevant for this new application. It would be useful if this type of framework plan were provided for this application. This information is commonly provided for other applications of a similar scale to this one.
 please provide a landscape framework plan which indicates the 'arrangement' of landscape and open space and the function, purpose and character of



	these spaces, include de	tails of vegetation proposed
	to be retained;	o r · · r · · · · · · · · · · · · · · · · · · ·
	at A3 (may require detail pages) to better illustra	ings at a more legible scale drawings or multiple drawing te the proposed landscape open spaces and boundary
	treatments, including planting, retaining wal landscape, fence and relevant the design, type	cations of other landscape hedges/shrubs, amenity ls, furniture, signs, hard light treatments. Where , location, height, materiality nish and size should be
	 plant schedule for all pla climbers, groundcovers). 	nting (trees, shrubs, hedge,
		nt images of the proposed the front gate system with key dimensions.
•	Details of movement and wayf residents should also be prov details of retaining walls propos	vided. Associated with this,
•	The officers recommend that t the Urban Design Panel, onc prepared which provide a clear The officers (Masato Nakamur will communicate the likely ava	er further plans have been er indication of the proposal. a and Sheerin Samsudeen)
•	The panel lead has confirmed t to go through a panel review size and prominence.	· ·
	applicant's team is happy	e is 22 August 2019. If the to commit - I will book it in. have to confirm the panels
	them, so that draft panel pa	on having the appropriate ape information presented to ckage is important and there about getting that to us on
	Draft Panel Final Pa	anel AUDP Design
	Package Packag	5



	8 August 15 August 22 August	Τ	
Logistics	The Council can keep this pre-application open. This will allow for continued meetings to be undertaken, with communications being ope until the full application is lodged with Council.		
	Input from Healthy Waters and Water Services Limited (WSL) will be managed by Matt Revill, as the project manager for engineering matters Input from Auckland Transport is currently sought. This will be manage by Masato Nakamura (Planning) and Vinh Bui (Traffic).		
	Once the draft version of documents is prepared, he reports can be forwarded to the officers (Masato Nakamura) to distribute to the Counce team. This will allow for a soft launch of the application, and to front load any issues.	cil	
Planning	Interest:		
	The officers expect that the proposal would generate interest within the community. It is expected that the Orakei Local Board will provid feedback towards the application. It is advised that the applicant engage with the Board prior to the lodgement of the application. Noting par comments from the board around the issue of height, it is more than like that there would be opposition expressed from the Local Board.	de es ast	
	Use of Commissioners:		
	Noting the expected interest as well as the scale of the proposal. It is like that any recommendations prepared by the officers will be determined by the Independent commissioners. The applicant is advised to include the into their consideration of risk (for notification), cost and timeframes.	by	
	Plan and Policy Context:		
height. The proposal is largely of a bulk that is expectation. In this regard the officers seek furt	The zone expects a built form that is predominantly three storeys height. The proposal is largely of a bulk that is in excess of th expectation. In this regard the officers seek further comments ar assessment, and how the applicant team views this proposal as bein within the planned built character of the zone.	nis nd	
	Amenity Impacts:		
	Noting the scale of the proposal as it relates to the maximum heigh standard, it is not considered that the dominance or shadowing effects w be of a level that non-notification could be supported. Detailed shadowin diagrams should be prepared to demonstrate these effects. The visus simulations should also provide clarity around the dominance effect generated by the built form proposed.	vill ng ıal	
	Notification:		
	Noting the scale of the proposal, the interest likely to be generated, and the extent the proposal deviates from the planned outcomes of the Residential – Mixed Housing Urban Zone, the officers (Planning) advise that the application should be lodged on a publicly notified basis. This w	he es	



reduce the time required to liaise between the different party's overs the notification assessment and consider the merits of the outcome. In the event the application is not lodged on a publicly notified basis, the Council
cannot guarantee any notification positions at this moment.

Preliminary view on outcome and process

In terms of the notification process, the Council officers recommend that the application is lodged on a publicly notified basis. Further details are required to be provided for the Council form a conclusion on the overall outcome of the proposal.

This is a preliminary view only. A final determination on whether Council can support the consent or not can only be made upon receipt of a formal application, site visit and review.

Resource Consent Str	rategy	
Specialist Assessments	You may need to provide written specialist report(s) to support your application, depending on the scale and significance of your proposal. As described above, in this case at a minimum the following is considered necessary:	
	 Draft Construction Management Plan Draft Construction Traffic Management Plan Construction Noise and Vibration Assessment Traffic Report Geotechnical and Groundwater Report Flood report (including hazard risk assessment) Infrastructure Assessment Landscaping Strategy, Landscape Plan and Maintenance Program Stormwater Management Plan Draft Erosion Sediment Control Plan Important Note: The specialist assessments required above are advised based on the proposal provided for the pre-application meeting, should the nature and extent of proposal change, further specialist assessments may be required.	

General Information		
Development	Development contributions are the fees charged by the council for extra	
Contributions	community and network infrastructure needed as a result of development	
	projects. You will pay development contributions for residential and	
	commercial development such as new houses, and subdivisions. The	



money collected from development contributions pays for the cost of public infrastructure that is needed to meet the additional demand from growth. This includes network infrastructure such as stormwater and transport, open space reserves and community facilities. To get an indication of the contribution please use the <u>Development Contributions</u> <u>Estimator</u> .
Water supply and wastewater services are not included in the Development Contribution. This is covered in the <u>infrastructure growth</u> <u>charge</u> . This charge is administered by Watercare.

Important Information

The purpose of a pre-application is to facilitate communication between applicants and the council so that the applicant can make informed decisions about applying for consents, permits or licences.

The views expressed by council staff in or following a pre-application are those officers' preliminary views, made in good faith, on the applicant's proposal. The council makes no warranty, express or implied, nor assumes any legal liability or responsibility for the accuracy, correctness, completeness or use of any information or views communicated as part of the pre-application process.

The applicant is not required to amend their proposal to accommodate the views expressed by council staff. Further, it remains the applicant's responsibility to get their own professional advice when making an application for consents, permits or licences, and to rely solely on that advice, in making any application for consents, permits or licences.

The council acknowledges that the confidential nature of pre-application meetings is important to encourage future applicants to engage with the council and attend pre-application meetings. By attending a pre-application meeting, both parties expect that the meetings are held in confidence and the intention is that the associated information that is provided to the council at these meetings, and the meeting minutes, will remain confidential. However, under the Local Government Official Information and Meetings Act 1987 any person may request any information that is provided to, and held by, the council. The council can only withhold requested information where there is a good reason and it is in the public interest. This is assessed on a case by case basis."

All consent applications become public information once lodged with council. Please note that council compiles, on a weekly basis, summaries of lodged resource consent applications and distributes these summaries to all local boards and all mana whenua groups in the Auckland region. Local boards and mana whenua groups then have an opportunity to seek further details of applications and provide comment for council to take into account.



Prepared by: Name:

Masato Nakamura

Title:

Senior Planner, Resource Consents

Signed:

Mather

Date:

05/07/2019

Reviewed by: Name:

Jennifer Chivers

Title:

Signed:

Team Leader, Resource Consents

Date:

05/07/2019



ATTACHMENT 1: AT COMMENTS

Hi Masato,

Thank you for giving us the opportunity to provide high level feedback for the proposal. Please find our general comments below;

- General: Applicant to provide an ITA covering predicted traffic, and transport, trip generation for the development, road safety and assessment of effects
- Applicant to assess how the above would affect the immediate and overall transport network; including the available and proposed pedestrian, cycling and public transport amenities/ improvements. This development would generate vulnerable and mobility users which needs to be considered.
- Traffic and transport analysis to determine the effect of the trips generated on the network (not just Kohimarama Rd). This would include an operational assessment and SIDRA modelling for the signalised intersections, including the mid-block crossing adjacent to Selwyn College
- Applicant also to address/include the following;
 - Zoning, permitted activities and reference to E27 of the AUP
 - Vehicular tracking for all proposed accesses (with the appropriate design vehicle). Loading recommended to be contained on-site
 - Parking demand assessment recommend all to be contained on site
 - Visibility assessment for all proposed accesses the access on Kohimarama is just north of a blind bend/corner
 - Proposed pedestrian/cycling amenities/crossing facilities at the proposed accesses
 - Safety assessment CAS analysis for minimum of previous 5 years
 - Safety assessment how the proposal would also affect the safety and operations of the non-signal controlled intersections taking into account Selwyn College and St Thomas' School
 - Assessment into how this development would affect, in particular, the efficiency of the intersection of Kohimarama Rd/ Allum St/ John Rymer Place and the intersection of Kohimarama Rd/Kepa Rd (SIDRA and overall operation including weekend)
 - Assessment into feasibility of a right turn bay into the development from Kohimarama Rd. Whether the available road width/flush median would provide refuge for vehicles waiting to turn

Let me know if you have any questions. Many thanks

Kind regards, Sarah Jaff | Senior Development Planner

From: Development Planning Central (AT) **Sent:** Tuesday, 2 July 2019 11:34 a.m.

From: Masato Nakamura <<u>Masato.Nakamura@aucklandcouncil.govt.nz</u>>

Sent: Friday, 28 June 2019 2:50 p.m.

To: Development Planning Central (AT) <<u>DevelopmentPlanningCentral@at.govt.nz</u>>
Cc: Vinh Bui <<u>Vinh.Bui@aucklandcouncil.govt.nz</u>>

Subject: Request for AT Input - 223 Kohimarama Road PRR00031670 - Rymans Healthcare

Good Afternoon,

Auckland Council is currently in pre-application discussions with Ryman Healthcare (Applicant) for a proposed retirement village at the above mentioned address.

Attached is the preliminary plans for the proposal, as well as some comments from Vinh who was present at the meeting.

No traffic reporting or assessment has been undertaken yet. So it is appreciated that any feedback will be limited and high level.

Please ensure any billing occurs to the pre-application number PRR00031670.

If you have any queries, please feel free to contact me on the details below.

Kind Regards,

Masato Nakamura | Senior Planner

Central Resource Consenting – Auckland Council 35 Graham St, Auckland Central, Auckland 1010 Phone: (09) 301 0101 | EXT (46) 9352 | DDI (09) 353 9352 | MOB 021 530 356 Email: <u>masato.nakamura@aucklandcouncil.govt.nz</u> Visit our website: <u>www.aucklandcouncil.govt.nz</u>

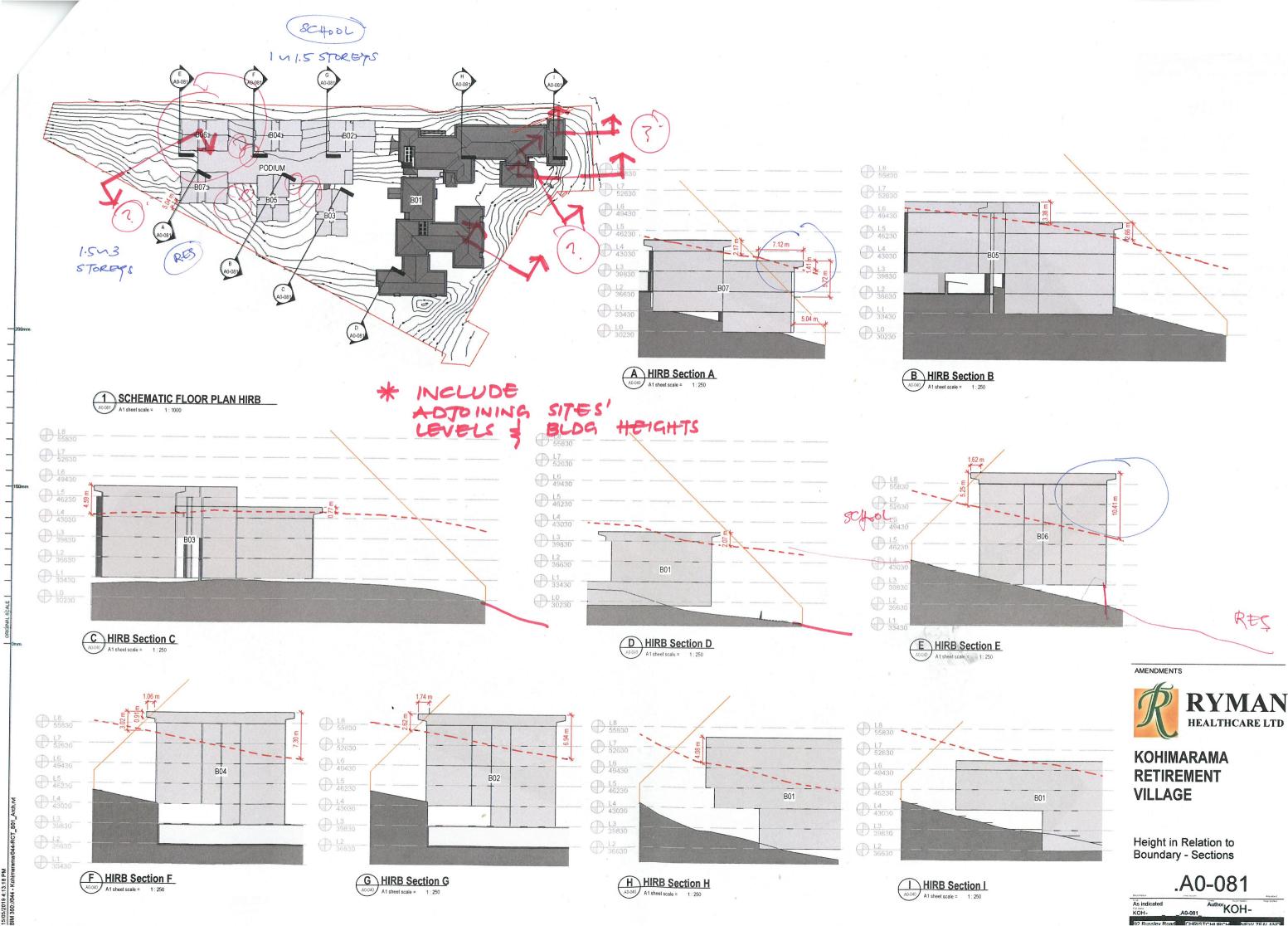
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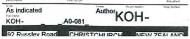
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ATTACHMENT 2: MARK UPS





044 - Kohimarama - Location Map

VP#	Location
VP101	New Entry - John Ryder Place
VP102	On Site - near entry
VP103	On Site - near entry
VP104	Allum St & Kohimarama Road
VP105	Kohimarama Road
VP106	Kohimarama Road
VP107	245 Kohimarama Road
VP108	226 Kohimarama Road
VP109	Kohimarama Road & Southern Cross
VP110	On Site - School Boundary
VP111	On Site - School Boundary
VP112	On Site - School Boundary Soccer Grounds
VP113	Centre of Site
VP114	On Site - (shouth Boundary)
VP115	267 St Johns Road
VP116	6A Ipswitch Place
VP117	Kohimarama Road

bistant VIEWS

- From along John Rymer Place

106 112



Hi All,

Please see the memo below for the meeting held yesterday for stormwater matters.

Hilary, FYI for the discussions from yesterday. Any question, please let me know.

Cheers,

Meeting Date:	26/08/2019		
Meeting Time:	2:00PM - 3:00PM		
Location:	35 Graham Street, Auckland		
Attendees:			
Maree Gleeson – Specialist, Healthy Waters			
Masato Nakamura – Senior Planner, Resource Consents			
Karen Joubert – Planning Consultant, Mitchel Daysh			
Weng Lye – Associate Civil Engineering, Beca			

Modelling and downstream flooding mitigation proposed

- The Council supports the use of TP108 for the run-off modelling. However, specific elements and restrictions which apply to the site must be factored into the assessment.
- The pre and post-development flows must be assessed for the 10 and 100 year ARI + Climate change.
- This run-off assessment must be included into the Stormwater Management Plan.
- How 10 year and 100 year pre development flows will be maintained by detention storage should be covered.
- There will be a significant volumes of detention proposed for the development to maintain flows to pre-development levels for the 10 year and 100yr ARI + Climate change. Considering the extent of the flows generated from the site, it is anticipated that inlets from the paved areas would need to be of appropriate size to accommodate these flows, particularly for 100 year ARI + Climate change. The detail and the capacity of these inlets should be provided to the Council as part of the SWMP.

Watercourse

• With regards to the proposed stream re-alignment, cross sections and water levels should be shown for 10 year and 100 year ARI +Climate change.

Flood Risk and OLFP's within the site and exiting the site

- 500mm FFL clearance from the flood waters should be achieved with the proposal.
- The entry and exit points of the overland flow path must be maintained. How the diversion of the flow paths occur must also be detailed in the application.
- The proposal must not exacerbate any flooding hazards onto adjacent properties, particularly 17 John Rymer Place.
- A hazard risk assessment would need to be undertaken for the overland flow paths.

Water Quality & Hydrology Mitigation for the impervious areas from the development

- Water quality (for gross pollutants) should be addressed and hydrology mitigation also must be provided in the Stormwater Management Plan.
- The proposal also includes stormwater retention. We have been advised that rain gardens and re-use within the apartments is proposed to provide hydrological mitigation. The details should be included in the Stormwater Management Plan.

Outfall

- The proposed outfall location is required to be provided, as well as its design. If located on School land, prior landowner approval will be required to implement this. Furthermore, written approval will also be required from the School.
- It is understood that the stormwater run-off will be discharged to land by sheet flow. This must not generate any erosion, particularly noting the slopes that are likely very steep around the outfall location.
- It is the responsibility of the applicant and any party engaged by the applicant to ensure that the full scope of the proposal and the effects are clearly understood.
- How this discharge will impact onto the existing overland flow paths to the south-west of the site must be assessed. The existing flow paths already impact some residential sites (51C John Rymer Place). The proposed outfall and the discharge from the site must not exacerbate the flooding hazards for these properties.

Technical Review

• The Council recommends a soft lodgement approach. Prior to the lodgement of the application, the draft version of the SWMP should be provided to Council for review, to identify whether there are any issues, to avoid delays during the processing of the application.

Masato Nakamura | Senior Planner

Central Resource Consenting – Auckland Council 35 Graham St, Auckland Central, Auckland 1010 Phone: (09) 301 0101 | EXT (46) 9352 | DDI (09) 353 9352 | MOB 021 530 356 Email: <u>masato.nakamura@aucklandcouncil.govt.nz</u> Visit our website: <u>www.aucklandcouncil.govt.nz</u> An insider look at the people and places that make Auckland great.

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