

Appendix F

Noise Analysis

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/7/2021

Case Description: Broadstone Villas

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	60	60	60

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Grader	No	40	85		95	0

Results

		Calculated (dBA)			Noise Limits (dBA)					Noise Limit Exceedance (dBA)					
		Day			Evening		Night			Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader		79.4	75.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	79.4	75.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.															

Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663540.4	4280051	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663541.6	4280052	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663563	4280061	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663563.9	4280061	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663564.8	4280060	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663565.6	4280059	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663566.6	4280058	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663563.8	4280062	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663564.6	4280062	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663565.6	4280061	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663566.4	4280060	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663567.3	4280059	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663644.4	4279883	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663645.2	4279884	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663646	4279885	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663646.8	4279886	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663647.7	4279888	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663643.2	4279884	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663644.1	4279886	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663645.1	4279887	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663645.8	4279888	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663646.8	4279889	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663694.5	4279937	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663695.7	4279936	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663696.9	4279935	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663698	4279934	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663699.2	4279933	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663695.5	4279938	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663696.4	4279937	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663697.7	4279936	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663698.9	4279935	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663700	4279934	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663691.1	4279840	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663691.9	4279841	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663692.8	4279842	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663693.9	4279843	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663694.8	4279844	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663691.9	4279839	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663692.7	4279840	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663693.8	4279841	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663694.7	4279842	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663696	4279843	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663821.9	4279707	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663823.2	4279709	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663824.2	4279710	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663825.3	4279711	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663826.5	4279712	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663821.1	4279709	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663822.3	4279710	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663823.2	4279711	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663824.5	4279712	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663825.6	4279713	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663860.5	4279766	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663860.9	4279767	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663861.1	4279769	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663861.5	4279770	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663861.8	4279771	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663859.5	4279766	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663859.8	4279768	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663860.2	4279769	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663860.5	4279770	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663860.7	4279771	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663563.2	4279998	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663564.6	4279997	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663565.6	4279996	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663566.9	4279995	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663568	4279994	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663562.2	4279997	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663563.6	4279996	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663564.7	4279995	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663566.2	4279994	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663585.9	4279976	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663587.4	4279975	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663588.7	4279974	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663590	4279973	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663591.2	4279972	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663584.9	4279975	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663586.6	4279974	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663588.1	4279972	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663589	4279971	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663609.2	4279956	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663610.4	4279955	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663611.6	4279954	11.89

Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663613.4	4279952	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663614.4	4279951	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663608.7	4279954	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663609.9	4279953	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663611.6	4279952	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663612.9	4279951	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663631.8	4279934	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663633.1	4279933	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663634.6	4279932	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663635.8	4279931	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663637	4279930	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663630.7	4279933	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663632.4	4279931	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663633.8	4279930	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663634.9	4279929	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663591.2	4280028	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663592.7	4280027	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663593.8	4280026	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663595.3	4280025	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663596.8	4280023	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663592.7	4280029	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663594	4280028	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663595.1	4280027	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663596.3	4280026	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663620.5	4280002	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663618.5	4280004	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663617.2	4280005	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663615.6	4280007	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663614.4	4280008	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663621.6	4280003	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663619.5	4280005	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663618.1	4280006	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663616.7	4280008	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663636.4	4279986	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663637.9	4279985	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663639.3	4279984	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663641	4279982	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663642.3	4279981	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663638	4279988	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663639.3	4279987	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663641.1	4279986	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663642.1	4279984	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663666.3	4279960	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663664.7	4279961	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663663.3	4279962	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663661.9	4279964	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663660	4279965	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663667.6	4279962	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663665.8	4279963	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663664.2	4279965	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663662.7	4279966	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663767.5	4279811	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663765.8	4279812	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663764.5	4279814	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663763.4	4279815	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663761.5	4279817	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663768.8	4279813	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663767.5	4279814	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663766.6	4279816	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663765.4	4279817	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663792.6	4279785	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663791.4	4279786	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663790.1	4279787	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663788.9	4279788	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663787.4	4279790	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663794.4	4279786	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663793.5	4279788	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663792.2	4279789	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663790.5	4279791	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663815.7	4279762	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663814	4279764	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663812.1	4279765	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663810.7	4279767	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663809.1	4279768	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663817	4279763	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663815.4	4279765	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663813.8	4279767	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663812.5	4279769	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663899.3	4279761	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663898.9	4279759	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663898.5	4279757	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663898.2	4279756	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4	Lw	Carrier38_024_34	0	(none)	1.22	g	663897.5	4279753	11.89

Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663901	4279760	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663900.6	4279759	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663900.2	4279757	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663899.8	4279755	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663935.4	4279751	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663935.1	4279750	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663934.8	4279748	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663934.4	4279747	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663933.9	4279745	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663937.1	4279751	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663936.5	4279749	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663936.5	4279748	11.89
Apartment AC	~	APPAC	73.4	73.4	73.4 Lw	Carrier38_024_34	0	(none)	1.22 g	663936	4279747	11.89
Clubhouse AC		CLUBAC	78.7	78.7	78.7 Lw	Carrier48PG_07	0	(none)	1.22 g	663716.1	4279905	8.23
Clubhouse AC		CLUBAC	78.7	78.7	78.7 Lw	Carrier48PG_07	0	(none)	1.22 g	663739.7	4279903	8.23

Broadstone Villas - Road Source Table, Existing Traffic

Name	M.	ID	Lme Day (dBA)	exact Count Data M Day	p (%) Day	Speed Limit Auto (km/h)	Truck (km/h)
E Bidwell - College to Scholar	+		69.4	3487	3	72	
E Bidwell - Scholar to Power Center	+		69	3240	3	72	
E Bidwell - Power Center to Broadstone	+		69	3181	3	72	
E Bidwell - Broadstone to Via Sol	+		69.2	3361	3	72	
E Bidwell - Via Sol to Via Felce	+		69.2	3359	3	72	
E Bidwell - Via Felce to Iron Point	+		69.3	3430	3	72	
E Bidwell - Iron Point to Placerville	+		71.4	5531	3	72	
E Bidwell - Placerville WB 50	+		70.3	4304	3	72	
E Bidwell - WB 50 to EB 50	+		69.3	3458	3	72	
Broadstone - Bidwell to Marketplace	+		66	1593	3	72	
Broadstone - Marketplace to Cavitt	+		66	1624	3	72	
Cavitt - Broadston to Kilrush	+		56.4	359	3	56	
Cavitt - Kilrush to Iron Point	+		56.3	355	3	56	
Iron Point - Bidwell to Cavitt	+		68.9	3133	3	72	
US 50 west of Bidwell	+		78.3	8800	3	105	89
US 50 east of Bidwell	+		78.6	9500	3	105	89

Broadstone Villas - Road Source Table, Existing + Project Traffic

Name	M.	ID	Lme Day (dBA)	exact Count Data		Speed Limit		
				M Day	p (%) Day	Auto (km/h)	Truck (km/h)	
E Bidwell - College to Scholar			69.4		3509	3	72	
E Bidwell - Scholar to Power Center			69.1		3262	3	72	
E Bidwell - Power Center to Broadstone			69		3203	3	72	
E Bidwell - Broadstone to Via Sol			69.3		3414	3	72	
E Bidwell - Via Sol to Via Felce			69.3		3407	3	72	
E Bidwell - Via Felce to Iron Point			69.4		3488	3	72	
E Bidwell - Iron Point to Placerville			71.4		5571	3	72	
E Bidwell - Placerville WB 50			70.3		4335	3	72	
E Bidwell - WB 50 to EB 50			69.4		3483	3	72	
Broadstone - Bidwell to Marketplace			66		1600	3	72	
Broadstone - Marketplace to Cavitt			66.1		1629	3	72	
Iron Point - Bidwell to Cavitt			68.9		3141	3	72	
Cavitt - Broadston to Kilrush			56.5		367	3	56	
Cavitt - Kilrush to Iron Point			56.4		359	3	56	
US 50 west of Bidwell			78.3		8800	3	105	89
US 50 east of Bidwell			78.6		9500	3	105	89

Broadstone Villas - Road Source Table, EPAP Traffic

Name	M.	ID	Lme Day (dBA)	exact Count Data		Speed Limit		
				M Day	p (%) Day	Auto (km/h)	Truck (km/h)	
E Bidwell - College to Scholar			69.9		3972	3	72	
E Bidwell - Scholar to Power Center			69.8		3852	3	72	
E Bidwell - Power Center to Broadstone			70.1		4084	3	72	
E Bidwell - Broadstone to Via Sol			70.3		4291	3	72	
E Bidwell - Via Sol to Via Felce			70.1		4101	3	72	
E Bidwell - Via Felce to Iron Point			70		4028	3	72	
E Bidwell - Iron Point to Placerville			72.4		6944	3	72	
E Bidwell - Placerville WB 50			71.4		5615	3	72	
E Bidwell - WB 50 to EB 50			71.4		5558	3	72	
Broadstone - Bidwell to Marketplace			66.5		1798	3	72	
Broadstone - Marketplace to Cavitt			66.1		1645	3	72	
Iron Point - Bidwell to Cavitt			69.3		3408	3	72	
Cavitt - Broadston to Kilrush			56.4		359	3	56	
Cavitt - Kilrush to Iron Point			56.3		355	3	56	
US 50 west of Bidwell			78.3		8800	3	105	89
US 50 east of Bidwell			78.6		9500	3	105	89

Broadstone Villas - Road Source Table, EPAP + Project Traffic

Name	M.	ID	Lme Day (dBA)	exact Count Data		Speed Limit		
				M Day	p (%) Day	Auto (km/h)	Truck (km/h)	
E Bidwell - College to Scholar			70		3994	3	72	
E Bidwell - Scholar to Power Center			69.8		3874	3	72	
E Bidwell - Power Center to Broadstone			70.1		4106	3	72	
E Bidwell - Broadstone to Via Sol			70.3		4344	3	72	
E Bidwell - Via Sol to Via Felce			70.1		4149	3	72	
E Bidwell - Via Felce to Iron Point			70.1		4086	3	72	
E Bidwell - Iron Point to Placerville			72.4		6984	3	72	
E Bidwell - Placerville WB 50			71.5		5646	3	72	
E Bidwell - WB 50 to EB 50			71.4		5583	3	72	
Broadstone - Bidwell to Marketplace			66.5		1805	3	72	
Broadstone - Marketplace to Cavitt			66.1		1650	3	72	
Iron Point - Bidwell to Cavitt			69.3		3416	3	72	
Cavitt - Broadston to Kilrush			56.5		367	3	56	
Cavitt - Kilrush to Iron Point			56.4		359	3	56	
US 50 west of Bidwell			78.3		8800	3	105	89
US 50 east of Bidwell			78.6		9500	3	105	89

Broadstone Villas - Receiver Table, HVAC Noise

Name	M.	ID	Level Lr		Limit. Value		Land Use		Noise Type	Height (m)	Coordinates		
			Day (dBA)	Night (dBA)	Day (dBA)	Night (dBA)	Type	Auto			X (m)	Y (m)	Z (m)
R1-1			33	33	0	0		x	Total	1.52 r	663630.4	4280056	1.52
R1-2			34.7	34.7	0	0		x	Total	4.57 r	663631	4280055	4.57
R1-3			36.6	36.6	0	0		x	Total	7.62 r	663631.7	4280055	7.62
R1-4			38.8	38.8	0	0		x	Total	10.67 r	663632.5	4280054	10.67
R2-1			33.9	33.9	0	0		x	Total	1.52 r	663696.7	4279998	1.52
R2-2			35.5	35.5	0	0		x	Total	4.57 r	663697.5	4279998	4.57
R2-3			36.9	36.9	0	0		x	Total	7.62 r	663698.1	4279998	7.62
R2-4			38.7	38.7	0	0		x	Total	10.67 r	663698.7	4279997	10.67
R3-1			35.1	35.1	0	0		x	Total	1.52 r	663726.9	4279974	1.52
R3-2			36	36	0	0		x	Total	4.57 r	663727.6	4279974	4.57
R3-3			37.5	37.5	0	0		x	Total	7.62 r	663728.2	4279974	7.62
R3-2			38.7	38.7	0	0		x	Total	10.67 r	663728.7	4279974	10.67
R4			34.1	34.1	0	0		x	Total	1.52 r	663799.4	4279928	1.52
R5			33.3	33.3	0	0		x	Total	1.52 r	663802.9	4279971	1.52

Broadstone Villas - Receiver Table, Existing Traffic

Name	M.	ID	Level Lr		Limit. Value		Land Use		Height	Coordinates		
			Day	Night	Day	Night	Type	Auto		Noise Type	X	Y
			(dBA)	(dBA)	(dBA)	(dBA)			(m)	(m)	(m)	(m)
R6			65.1	19.8	0	0	x	Total	1.52 r	663663.9	4280136.91	1.52
R7			64.8	13.4	0	0	x	Total	1.52 r	664130.1	4279665.8	1.52
C1			70.1	0.8	0	0	x	Total	1.52 r	662717.9	4280593.93	1.52
C2			70	5.8	0	0	x	Total	1.52 r	662977.3	4280374.31	1.52
C3			70.7	8.2	0	0	x	Total	1.52 r	663243.7	4280142.23	1.52
C4			70.5	20.8	0	0	x	Total	1.52 r	663556.5	4279846.57	1.52
C5			71.1	17.1	0	0	x	Total	1.52 r	663750	4279660.88	1.52
C6			71.7	9.4	0	0	x	Total	1.52 r	663936.4	4279451.46	1.52
C7			71.9	7.2	0	0	x	Total	1.52 r	663995.8	4279281.49	1.52
C8			72.2	5.4	0	0	x	Total	1.52 r	664084.5	4279168.89	1.52
C9			68.1	9.4	0	0	x	Total	1.52 r	663486.3	4280127.57	1.52
C10			69	7.4	0	0	x	Total	1.52 r	664233.4	4279416.15	1.52

Broadstone Villas - Receiver Table, Existing + Project Traffic

Name	M.	ID	Level Lr		Limit. Value		Land Use		Noise Type	Height (m)	Coordinates		
			Day (dBA)	Night (dBA)	Day (dBA)	Night (dBA)	Type	Auto			X (m)	Y (m)	Z (m)
R6			65.1	19.8	0	0		x	Total	1.52 r	663663.9	4280136.91	1.52
R7			64.8	13.4	0	0		x	Total	1.52 r	664130.1	4279665.8	1.52
C1			70.1	0.8	0	0		x	Total	1.52 r	662717.9	4280593.93	1.52
C2			70	5.8	0	0		x	Total	1.52 r	662977.3	4280374.31	1.52
C3			70.7	8.2	0	0		x	Total	1.52 r	663243.7	4280142.23	1.52
C4			70.4	20.8	0	0		x	Total	1.52 r	663556.5	4279846.57	1.52
C5			71.1	17.1	0	0		x	Total	1.52 r	663750	4279660.88	1.52
C6			71.7	9.4	0	0		x	Total	1.52 r	663936.4	4279451.46	1.52
C7			71.9	7.2	0	0		x	Total	1.52 r	663995.8	4279281.49	1.52
C8			72.1	5.4	0	0		x	Total	1.52 r	664084.5	4279168.89	1.52
C9			68.1	9.4	0	0		x	Total	1.52 r	663486.3	4280127.57	1.52
C10			69	7.4	0	0		x	Total	1.52 r	664233.4	4279416.15	1.52

Broadstone Villas - Receiver Table, EPAP Traffic

Name	M.	ID	Level Lr		Limit. Value		Land Use		Noise Type	Height (m)	Coordinates		
			Day (dBA)	Night (dBA)	Day (dBA)	Night (dBA)	Type	Auto			X (m)	Y (m)	Z (m)
R6			65.3	19.8	0	0		x	Total	1.52 r	663663.9	4280136.91	1.52
R7			65.1	13.4	0	0		x	Total	1.52 r	664130.1	4279665.8	1.52
C1			70.7	0.8	0	0		x	Total	1.52 r	662717.9	4280593.93	1.52
C2			70.7	5.8	0	0		x	Total	1.52 r	662977.3	4280374.31	1.52
C3			71.7	8.2	0	0		x	Total	1.52 r	663243.7	4280142.23	1.52
C4			71.4	20.8	0	0		x	Total	1.52 r	663556.5	4279846.57	1.52
C5			71.9	17.1	0	0		x	Total	1.52 r	663750	4279660.88	1.52
C6			72.3	9.4	0	0		x	Total	1.52 r	663936.4	4279451.46	1.52
C7			72.7	7.2	0	0		x	Total	1.52 r	663995.8	4279281.49	1.52
C8			73	5.4	0	0		x	Total	1.52 r	664084.5	4279168.89	1.52
C9			68.7	9.4	0	0		x	Total	1.52 r	663486.3	4280127.57	1.52
C10			69.4	7.4	0	0		x	Total	1.52 r	664233.4	4279416.15	1.52

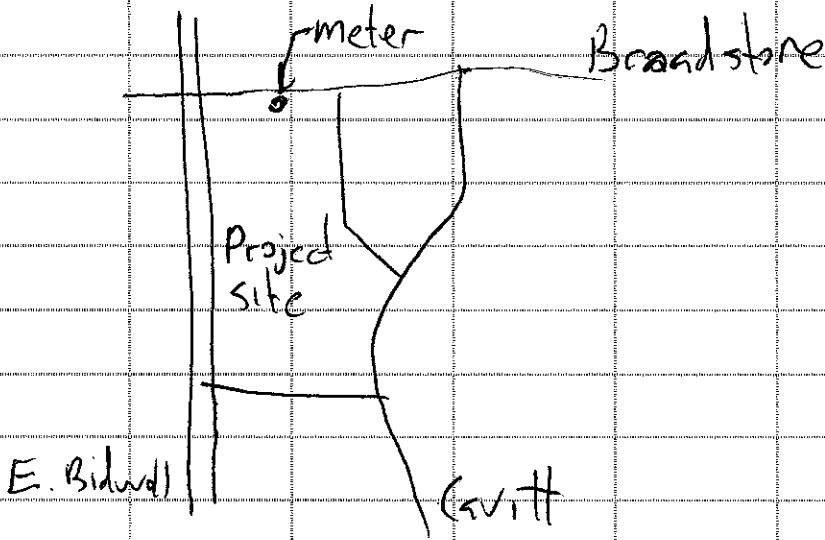
Broadstone Villas - Receiver Table, EPAP + Project Traffic

Name	M.	ID	Level Lr		Limit. Value		Land Use		Noise Type	Height (m)	Coordinates		
			Day (dBA)	Night (dBA)	Day (dBA)	Night (dBA)	Type	Auto			X (m)	Y (m)	Z (m)
R6			65.4	19.8	0	0		x	Total	1.52 r	663663.9	4280136.91	1.52
R7			65.2	13.4	0	0		x	Total	1.52 r	664130.1	4279665.8	1.52
C1			70.7	0.8	0	0		x	Total	1.52 r	662717.9	4280593.93	1.52
C2			70.7	5.8	0	0		x	Total	1.52 r	662977.3	4280374.31	1.52
C3			71.7	8.2	0	0		x	Total	1.52 r	663243.7	4280142.23	1.52
C4			71.5	20.8	0	0		x	Total	1.52 r	663556.5	4279846.57	1.52
C5			71.9	17.1	0	0		x	Total	1.52 r	663750	4279660.88	1.52
C6			72.4	9.4	0	0		x	Total	1.52 r	663936.4	4279451.46	1.52
C7			72.7	7.2	0	0		x	Total	1.52 r	663995.8	4279281.49	1.52
C8			73	5.4	0	0		x	Total	1.52 r	664084.5	4279168.89	1.52
C9			68.7	9.4	0	0		x	Total	1.52 r	663486.3	4280127.57	1.52
C10			69.4	7.4	0	0		x	Total	1.52 r	664233.4	4279416.15	1.52

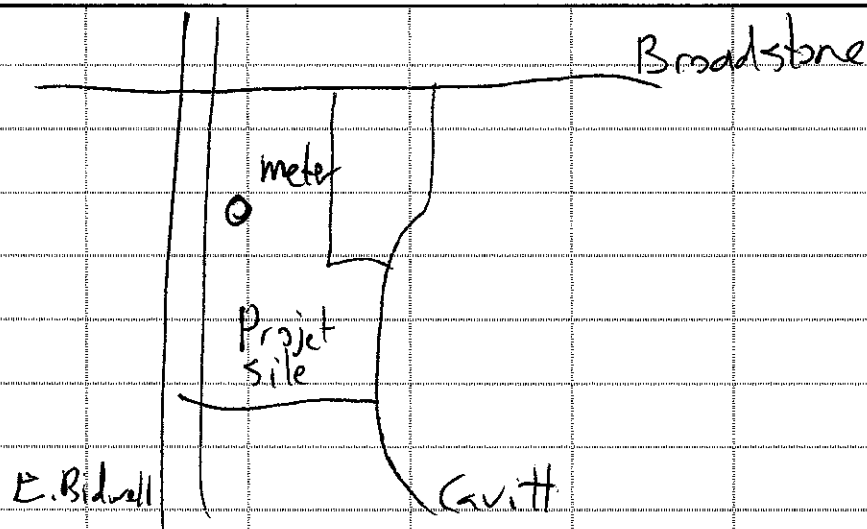
M1

Site Survey			
Job #		Project Name: Broadstone Villas	
Date: 9/23/21	Site #:	Engineer: M. Rolph	
Address:			
Meter: LXT	Serial #: 1013	Calibrator: Cal 150	Serial #: 5529
Notes:			
Sketch:			
Temp: 75° F	Wind Spd: 5	mph	Humidity: 38 %
Start of Measurement: 9:56 a.m.	End of Measurement: 10:11 a.m.	61.5 dBA L _{EQ}	
Cars (tally per 5 cars)	Medium Trucks (MT)	Heavy Trucks (HT)	
 12 (32)	0	0	
Noise Measurement for Information Only			
No Through Roadways			
No Calibration Analysis Will Be Provided			

M 2

Site Survey			
Job #		Project Name: Broadstone Villas	
Date: 9/23/21	Site #:	Engineer: M. Rolph	
Address:			
Meter: LXT	Serial #: 1013	Calibrator: Cal 150	Serial #: 5529
Notes:			
Sketch: 			
Temp: 79°F	Wind Spd: 7	mph	Humidity: 32 %
Start of Measurement: 10:17 a.m.		End of Measurement: 10:32 a.m.	
62.2 dBA L _{EQ}			
Cars (tally per 5 cars)		Medium Trucks (MT)	Heavy Trucks (HT)
 			
14 (164)		(3)	(5)
Noise Measurement for Information Only			
No Through Roadways			
No Calibration Analysis Will Be Provided			

M3

Site Survey			
Job #		Project Name: Broadstone Villas	
Date: 9/23/21	Site #:	Engineer: M. Rolph	
Address:			
Meter: LXT	Serial #: 1013	Calibrator: Cal ISO	Serial #: 5529
Notes: Traffic counts for southbound E. Bidwell only.			
Sketch: 			
Temp: 80°F	Wind Spd: 7	mph	Humidity: 31 %
Start of Measurement: 10:37 a.m.		End of Measurement: 10:52 a.m.	
65.8 dBA L _{EQ}			
Cars (tally per 5 cars)		Medium Trucks (MT)	Heavy Trucks (HT)
 			
 1			
+1 (311)			
Noise Measurement for Information Only			
No Through Roadways			
No Calibration Analysis Will Be Provided			

M4

Site Survey			
Job #		Project Name: Brondstone Villas	
Date: 9/23/21	Site #:	Engineer: M. Rolph	
Address:			
Meter: LXT	Serial #: 1013	Calibrator: Cal 150	Serial #: 5529
Notes: Measurement 15 feet in front of substation gate			
Sketch:			
Temp: 79	Wind Spd: 7	mph	Humidity: 32 %
Start of Measurement: 10:57	End of Measurement: 11:07 a.m.	59.9 dBA L _{EQ}	
Cars (tally per 5 cars)	Medium Trucks (MT)	Heavy Trucks (HT)	
Noise Measurement for Information Only			
No Through Roadways			
No Calibration Analysis Will Be Provided			