

ATTACHMENT D

Vibration Impacts by Build Alternative

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
017+00	11200 1ST AVE NE, SEATTLE	MF	72	81	70	70	70	70	70	49	51	51	51	51	51
017+75	11300 1ST AVE NE, SEATTLE	MF	72	45	40	38	40	38	40	50	51	52	51	52	51
023+00	11355 3RD AVE NE, SEATTLE	MF	72	156	97	97	97	97	97	47	45	51	45	51	45
024+00	133 NE 115TH ST, SEATTLE	SF	72	123	61	61	61	61	61	56	56	67	56	67	56
024+25	139 NE 115TH ST, SEATTLE	SF	72	155	89	112	89	112	89	53	52	57	52	57	52
024+50	145 NE 115TH ST, SEATTLE	SF	72	209	142	142	142	142	142	52	50	54	50	54	50
026+00	136 NE 115TH ST, SEATTLE	SF	72	103	33	32	33	32	33	59	62	75	62	75	62
026+00	142 NE 115TH ST, SEATTLE	SF	72	139	67	67	67	67	67	54	55	65	55	65	55
026+25	148 NE 115TH ST, SEATTLE	SF	72	159	84	129	84	129	84	53	52	55	52	55	52
026+25	147 NE 116TH ST, SEATTLE	MF	72	103	28	28	28	28	28	59	63	76	63	76	63
026+50	304 3RD AVE NE, SEATTLE	SF	72	372	297	297	297	297	297	49	47	50	47	50	47
027+00	11508 3RD AVE NE, SEATTLE	SF	72	340	265	265	265	265	265	50	48	51	48	51	48
027+00	11519 3RD AVE NE, SEATTLE	SF	72	143	117	118	117	118	117	53	50	57	50	57	50
027+50	11514 3RD AVE NE, SEATTLE	SF	72	309	235	235	235	235	235	50	48	51	48	51	48
027+75	11523 3RD AVE NE, SEATTLE	SF	72	123	100	100	100	100	100	56	51	59	51	59	51
028+00	11522 3RD AVE NE, SEATTLE	SF	72	280	209	209	209	209	209	51	48	52	48	52	48
028+50	11526 3RD AVE NE, SEATTLE	SF	72	253	187	187	187	187	187	51	48	52	48	52	48
029+00	11600 3RD AVE NE, SEATTLE	SF	72	223	164	164	164	164	164	52	49	53	49	53	49
029+50	156 NE 116TH ST, SEATTLE	SF	72	111	51	51	51	51	51	58	58	69	58	69	58
029+50	11606 3RD AVE NE, SEATTLE	SF	72	194	141	141	141	141	141	52	50	54	50	54	50
030+25	11610 3RD AVE NE, SEATTLE	SF	72	165	120	120	120	120	120	53	50	56	50	56	50
031+25	11622 3RD AVE NE, SEATTLE	SF	72	138	75	107	75	107	75	54	54	58	54	58	54
032+50	308 NE 117TH ST, SEATTLE	SF	72	65	48	48	48	48	48	66	59	70	59	70	59
033+00	11708 3RD AVE NE, SEATTLE	SF	72	54	41	42	41	42	41	68	60	72	60	72	60
033+00	11710 3RD AVE NE, SEATTLE	CH	75	DISP	56	DISP	56	DISP	56	---	53	---	53	---	53
033+50	316 NE 117TH ST, SEATTLE	SF	72	123	116	116	116	116	116	56	50	57	50	57	50

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
033+75	322 NE 117TH ST, SEATTLE	SF	72	176	172	172	172	172	172	53	49	53	49	53	49
034+00	326 NE 117TH ST, SEATTLE	SF	72	230	227	226	227	226	227	52	48	52	48	52	48
034+75	11721 5TH AVE NE, SEATTLE	SF	72	253	253	253	253	253	253	51	48	51	48	51	48
035+75	323 NE 120TH ST, SEATTLE	SF	72	DISP	25	DISP	25	DISP	25	---	64	---	64	---	64
036+00	11723 5TH AVE NE, SEATTLE	SF	72	194	194	194	194	194	194	52	48	52	48	52	48
036+50	11725 5TH AVE NE, SEATTLE	SF	72	165	165	165	165	165	165	53	49	53	49	53	49
037+00	325 NE 120TH ST, SEATTLE	SF	72	DISP	81	DISP	81	DISP	81	---	53	---	53	---	53
037+50	11737C 5TH AVE NE, SEATTLE	SF	72	143	106	142	106	142	106	53	51	53	51	53	51
037+75	11737B 5TH AVE NE, SEATTLE	SF	72	160	160	160	160	160	160	53	49	53	49	53	49
038+25	327 NE 120TH ST, SEATTLE	SF	72	37	37	36	37	36	37	73	61	73	61	73	61
038+50	331 NE 120TH ST, SEATTLE	SF	72	59	59	59	59	59	59	67	57	67	57	67	57
038+75	337 NE 120TH ST, SEATTLE	SF	72	112	95	111	95	111	95	57	51	58	51	58	51
040+50	332 NE 120TH ST, SEATTLE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
040+50	338 NE 120TH ST, SEATTLE	SF	72	50	36	48	36	48	36	69	61	70	61	70	61
041+00	344 NE 120TH ST, SEATTLE	SF	72	108	72	107	72	107	72	58	54	58	54	58	54
041+25	12015 5TH AVE NE, SEATTLE	SF	72	124	124	124	124	124	124	56	50	56	50	56	50
041+75	12021 5TH AVE NE, SEATTLE	SF	72	169	105	170	105	170	105	53	51	53	51	53	51
042+00	12029 5TH AVE NE, SEATTLE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
042+25	12027 5TH AVE NE, SEATTLE	SF	72	51	51	51	51	51	51	69	58	69	58	69	58
042+25	12025 5TH AVE NE, SEATTLE	SF	72	113	81	112	81	112	81	57	53	57	53	57	53
043+25	12035 5TH AVE NE, SEATTLE	SF	72	67	65	66	65	66	65	65	55	65	55	65	55
043+25	12030 5TH AVE NE, SEATTLE	SF	72	239	239	239	239	239	239	51	48	51	48	51	48
043+75	12045 5TH AVE NE, SEATTLE	SF	72	49	49	49	49	49	49	70	58	70	58	70	58
044+00	12036 5TH AVE NE, SEATTLE	SF	72	217	217	217	217	217	217	52	48	52	48	52	48
044+25	12049 5TH AVE NE, SEATTLE	SF	72	60	58	59	58	59	58	67	57	67	57	67	57
044+50	12042 5TH AVE NE, SEATTLE	SF	72	201	201	201	201	201	201	52	48	52	48	52	48

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
045+00	12048 5TH AVE NE, SEATTLE	SF	72	187	187	187	187	187	187	52	48	52	48	52	48
045+25	12051 5TH AVE NE, SEATTLE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
045+50	12054 5TH AVE NE, SEATTLE	SF	72	173	173	173	173	173	173	53	49	53	49	53	49
046+00	12301 5TH AVE NE, SEATTLE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
046+50	12311 5TH AVE NE, SEATTLE	MF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
046+75	12302 5TH AVE NE, SEATTLE	SF	72	150	150	150	150	150	150	53	49	53	49	53	49
047+25	12308 5TH AVE NE, SEATTLE	SF	72	140	140	140	140	140	140	54	50	54	50	54	50
047+50	12314(?) 5TH AVE NE, SEATTLE	MF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
048+00	12327 5TH AVE NE, SEATTLE	MF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
048+00	12316 5TH AVE NE, SEATTLE	SF	72	128	128	128	128	128	128	55	50	55	50	55	50
048+50	12320 5TH AVE NE, SEATTLE	SF	72	123	123	123	123	123	123	56	50	56	50	56	50
049+00	12401 5TH AVE NE, SEATTLE	MF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
049+25	503 NE 124TH ST, SEATTLE	SF	72	113	113	113	113	113	113	57	50	57	50	57	50
050+75	500 NE 124TH ST, SEATTLE	SF	72	113	104	114	104	114	104	57	51	57	51	57	51
052+00	12417 5TH AVE NE, SEATTLE	MF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
052+00	505 NE 125TH ST, SEATTLE	SF	72	125	100	128	100	128	100	56	51	55	51	55	51
053+75	502 NE 125TH ST, SEATTLE	SF	72	114	98	114	98	114	98	57	51	57	51	57	51
053+75	514 NE 125TH ST, SEATTLE	SF	72	223	223	223	223	223	223	52	48	52	48	52	48
053+75	510 NE 125TH ST, SEATTLE	SF	72	163	163	163	163	163	163	53	49	53	49	53	49
054+25	12518 5TH AVE NE, SEATTLE	SF	72	115	98	115	98	115	98	57	51	57	51	57	51
055+00	12520 5TH AVE NE, SEATTLE	SF	72	123	98	124	98	124	98	56	51	56	51	56	51
055+00	12512 5TH AVE NE, SEATTLE	SF	72	223	223	223	223	223	223	52	48	52	48	52	48
055+75	12526 5TH AVE NE, SEATTLE	SF	72	187	187	187	187	187	187	52	48	52	48	52	48
055+75	12528 5TH AVE NE, SEATTLE	SF	72	119	97	120	97	120	97	56	51	56	51	56	51
056+00	12532 5TH AVE NE, SEATTLE	SF	72	297	97	300	97	300	97	50	51	50	51	50	51
056+25	12534 5TH AVE NE, SEATTLE	SF	72	132	97	132	97	132	97	55	51	55	51	55	51

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
057+25	12542 5TH AVE NE, SEATTLE	SF	72	142	96	143	96	143	96	53	51	53	51	53	51
057+25	12546B 5TH AVE NE, SEATTLE	SF	72	226	226	226	226	226	226	52	48	52	48	52	48
058+50	503 NE 127TH ST, SEATTLE	SF	72	103	96	104	96	104	96	59	51	59	51	59	51
058+50	509 NE 127TH ST, SEATTLE	SF	72	155	155	155	155	155	155	53	49	53	49	53	49
058+50	515 NE 127TH ST, SEATTLE	SF	72	215	215	215	215	215	215	52	48	52	48	52	48
059+75	502 NE 127TH ST, SEATTLE	SF	72	123	95	124	95	124	95	56	51	56	51	56	51
060+25	12708 5TH AVE NE, SEATTLE	SF	72	132	95	134	95	134	95	55	51	54	51	54	51
060+25	514 NE 127TH ST, SEATTLE	SF	72	220	220	220	220	220	220	52	48	52	48	52	48
060+25	522 NE 127TH ST, SEATTLE	SF	72	280	280	280	280	280	280	51	47	51	47	51	47
061+50	12718 5TH AVE NE, SEATTLE	SF	72	135	94	136	90	136	90	54	51	54	51	54	51
062+25	12726 5TH AVE NE, SEATTLE	SF	72	129	94	128	86	128	86	55	51	55	52	55	52
062+25	12745 ROOSEVELT WAY NE, SEATTLE	SF	72	244	244	237	235	237	235	51	48	51	48	51	48
062+75	12732 5TH AVE NE, SEATTLE	SF	72	134	93	123	81	123	81	54	51	53	54	53	54
062+75	12759 ROOSEVELT WAY NE, SEATTLE	SF	72	128	128	116	116	116	116	55	50	53	49	53	49
063+00	12749 ROOSEVELT WAY NE, SEATTLE	SF	72	243	243	232	231	232	231	51	48	47	45	47	45
064+00	12740 5TH AVE NE, SEATTLE	SF	72	128	93	109	73	109	73	55	51	54	55	54	55
067+00	502 NE 130TH ST, SEATTLE	SF	72	119	91	96	67	96	67	56	51	56	56	56	56
067+00	X, SEATTLE	SF	72	157	157	133	133	133	133	53	49	51	47	51	47
067+00	516 NE 130TH ST, SEATTLE	SF	72	217	217	193	193	193	193	52	48	47	45	47	45
068+25	511 NE 131ST PL, SEATTLE	SF	72	165	165	142	142	142	142	53	49	50	46	50	46
068+25	519 NE 131ST PL, SEATTLE	SF	72	240	240	217	217	217	217	51	48	47	45	47	45
068+25	505 131ST PL NE, SEATTLE	SF	72	105	90	82	67	82	67	58	51	58	56	58	56
069+25	520 NE 131ST PL, SEATTLE	SF	72	240	240	216	216	216	216	51	48	47	45	47	45
069+25	510 131ST PL NE, SEATTLE	SF	72	165	165	141	141	141	141	53	49	51	46	51	46

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
071+25	13130 5TH AVE NE, SEATTLE	SF	72	225	88	198	65	198	65	49	48	44	52	44	52
104+75	522 NE 145TH ST, SHORELINE	SF	72	314	336	346	346	314	336	44	44	47	47	44	44
105+00	516 NE 145TH ST, SHORELINE	SF	72	254	276	287	286	254	276	45	44	47	47	45	44
105+75	14515 6TH AVE NE, SHORELINE	SF	72	281	307	314	313	281	307	44	44	47	47	44	44
106+25	14521 6TH AVE NE, SHORELINE	SF	72	299	326	331	331	299	326	44	44	47	47	44	44
106+25	14512 5TH AVE NE, SHORELINE	SF	72	164	191	196	196	164	191	46	45	48	48	46	45
106+75	14518 5TH AVE NE, SHORELINE	SF	72	183	210	215	214	183	210	45	45	48	48	45	45
107+00	14525 6TH AVE NE, SHORELINE	SF	72	319	345	350	350	319	345	44	44	47	47	44	44
107+25	14526 5TH AVE NE, SHORELINE	SF	72	205	228	234	234	205	228	45	45	48	48	45	45
107+75	14535 6TH AVE NE, SHORELINE	SF	72	352	373	381	380	352	373	44	43	46	46	44	43
108+00	14532 5TH AVE NE, SHORELINE	SF	72	227	247	255	255	227	247	45	45	48	48	45	45
108+50	14541 6TH AVE NE, SHORELINE	SF	72	385	401	413	413	385	401	43	43	46	46	43	43
108+50	14540 5TH AVE NE, SHORELINE	SF	72	249	266	277	277	249	266	45	45	47	47	45	45
109+00	14549 6TH AVE NE, SHORELINE	SF	72	408	420	435	435	408	420	43	43	46	46	43	43
109+00	14544 5TH AVE NE, SHORELINE	SF	72	272	285	300	300	272	285	44	44	47	47	44	44
109+50	14552 5TH AVE NE, SHORELINE	SF	72	294	304	322	322	294	304	44	44	47	47	44	44
109+75	14555 6TH AVE NE, SHORELINE	SF	72	430	439	458	458	430	439	43	43	46	46	43	43

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
110+25	14565 6TH AVE NE, SHORELINE	SF	72	453	458	480	480	453	458	43	43	46	46	43	43
110+25	14556 5TH AVE NE, SHORELINE	SF	72	317	322	344	344	317	322	44	44	47	47	44	44
110+75	14567 6TH AVE NE, SHORELINE	SF	72	475	477	503	503	475	477	43	43	45	45	43	43
110+75	14560 5TH AVE NE, SHORELINE	SF	72	339	341	367	367	339	341	44	44	47	47	44	44
111+00	14579 6TH AVE NE, SHORELINE	SF	72	554	553	582	582	554	553	42	42	45	45	42	42
111+25	14570 5TH AVE NE, SHORELINE	SF	72	362	360	389	389	362	360	44	44	46	46	44	44
111+75	515 NE 148TH ST, SHORELINE	SF	72	488	483	515	515	488	483	42	43	45	45	42	43
111+75	14574 5TH AVE NE, SHORELINE	SF	72	384	379	412	412	384	379	43	43	46	46	43	43
112+00	345 NE 148TH ST, SHORELINE	SF	72	DISP	118	152	152	DISP	118	---	48	49	49	---	48
112+25	14727 5TH AVE NE, SHORELINE	SF	72	DISP	195	229	229	DISP	195	---	45	48	48	---	45
112+25	14578 5TH AVE NE, SHORELINE	SF	72	401	395	429	429	401	395	43	43	46	46	43	43
112+25	339 NE 148TH ST, SHORELINE	SF	72	DISP	63	97	97	DISP	63	---	57	51	51	---	57
112+50	333 NE 148TH ST, SHORELINE	SF	72	DISP	DISP	77	78	DISP	DISP	---	---	53	53	---	---
112+75	327 NE 148TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
113+50	14802 5TH AVE NE, SHORELINE	SF	72	452	446	479	479	452	446	43	43	46	46	43	43
113+50	358 NE 148TH ST, SHORELINE	SF	72	286	280	312	312	286	280	44	44	47	47	44	44
113+75	14808 5TH AVE NE, SHORELINE	SF	72	473	467	498	498	473	467	43	43	45	45	43	43
113+75	348 NE 148TH ST, SHORELINE	SF	72	228	223	254	254	228	223	45	45	48	48	45	45

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
114+00	14807 5TH AVE NE, SHORELINE	SF	72	313	309	337	337	313	309	44	44	50	50	44	44
114+00	342 NE 148TH ST, SHORELINE	SF	72	171	167	197	197	171	167	46	46	52	52	46	46
114+25	14812 5TH AVE NE, SHORELINE	SF	72	493	490	517	517	493	490	42	42	48	48	42	42
114+25	336 NE 148TH ST, SHORELINE	SF	72	115	112	139	139	115	112	49	50	54	54	49	50
114+50	357 NE 149TH ST, SHORELINE	SF	72	371	369	393	393	371	369	43	47	49	49	43	47
114+50	330 NE 148TH ST, SHORELINE	SF	72	61	79	101	103	61	79	57	54	59	59	57	54
114+75	351 NE 149TH ST, SHORELINE	SF	72	318	316	338	338	318	316	44	47	50	50	44	47
114+75	324 NE 148TH ST, SHORELINE	SF	72	28	29	48	48	28	29	64	63	70	70	64	63
114+75	316 NE 148TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
114+75	14818 5TH AVE NE, SHORELINE	SF	72	519	517	540	540	519	517	42	45	48	48	42	45
115+00	345 NE 149TH ST, SHORELINE	SF	72	265	264	284	284	265	264	45	48	51	51	45	48
115+25	339 NE 149TH ST, SHORELINE	SF	72	212	211	229	229	212	211	45	48	52	52	45	48
115+25	14902 5TH AVE NE, SHORELINE	SF	72	545	544	562	562	545	544	42	45	47	47	42	45
115+50	333 NE 149TH ST, SHORELINE	SF	72	159	159	174	174	159	159	46	49	53	53	46	49
115+75	327 NE 149TH ST, SHORELINE	SF	72	106	106	119	119	106	106	50	50	56	56	50	50
115+75	14910 5TH AVE NE, SHORELINE	SF	72	571	571	585	585	571	571	42	45	47	47	42	45
116+00	321 NE 149TH ST, SHORELINE	SF	72	92	92	98	97	92	92	52	52	60	60	52	52
116+25	309 NE 149TH ST, SHORELINE	SF	72	32	32	36	36	32	32	63	63	73	73	63	63
116+25	14916 5TH AVE NE, SHORELINE	SF	72	598	599	607	607	598	599	45	45	47	47	45	45
117+00	305 NE 149TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
117+00	14922 5TH AVE NE, SHORELINE	SF	72	624	625	629	629	624	625	44	44	47	47	44	44

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
117+50	14928 5TH AVE NE, SHORELINE	SF	72	648	649	652	652	648	649	44	44	47	47	44	44
117+75	320 NE 149TH ST, SHORELINE	SF	72	134	134	137	137	134	134	50	50	54	54	50	50
118+00	308 NE 149TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
118+25	314 NE 149TH ST, SHORELINE	SF	72	83	83	101	104	83	83	52	52	59	59	52	52
118+25	14934 5TH AVE NE, SHORELINE	SF	72	672	672	674	674	672	672	44	44	47	47	44	44
118+75	15100 5TH AVE NE, SHORELINE	SF	72	694	694	697	697	694	694	44	44	46	46	44	44
119+25	313 NE 151ST ST, SHORELINE	SF	72	131	131	133	133	131	131	50	50	55	55	50	50
119+25	15108 5TH AVE NE, SHORELINE	SF	72	717	717	719	719	717	717	44	44	46	46	44	44
119+75	307 NE 151ST ST, SHORELINE	SF	72	104	103	105	106	104	103	51	51	58	58	51	51
119+75	15114 5TH AVE NE, SHORELINE	SF	72	741	741	743	743	741	741	44	44	46	46	44	44
120+00	15101 3RD AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
120+00	301 NE 151ST ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
120+25	15124 5TH AVE NE, SHORELINE	SF	72	762	762	764	764	762	762	43	43	46	46	43	43
121+50	306 NE 151ST ST, SHORELINE	SF	72	91	91	118	118	91	91	51	51	57	57	51	51
122+00	15109 3RD AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
122+25	15112 3RD AVE NE, SHORELINE	SF	72	118	118	120	120	118	118	57	50	56	56	57	50
122+75	311 NE152ND ST, SHORELINE	SF	72	199	199	200	200	199	199	52	48	52	52	52	48
123+00	305 NE 152ND ST, SHORELINE	SF	72	148	148	149	149	148	148	53	49	53	53	53	49
123+00	15117 3RD AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
123+50	225 NE 152ND ST, SHORELINE	CH	75	107	100	104	109	107	100	58	51	59	58	58	51
123+50	15121 3RD AVE NE, SHORELINE	SF	72	55	52	54	53	55	52	68	58	68	69	68	58
124+50	310 NE 152ND ST, SHORELINE	SF	72	280	280	281	281	280	280	51	47	47	51	51	47
125+00	304 NE 152ND ST, SHORELINE	SF	72	221	221	222	222	221	221	52	52	48	52	52	52
125+75	411 NE 153RD ST, SHORELINE	SF	72	350	350	349	349	350	350	50	50	47	47	50	50
126+75	405 NE 153RD ST, SHORELINE	SF	72	267	267	259	259	267	267	51	51	48	48	51	51
126+75	407 NE 153RD ST, SHORELINE	SF	72	267	267	259	259	267	267	51	51	48	48	51	51
127+75	403 NE 153RD ST, SHORELINE	SF	72	308	308	292	292	308	308	50	50	44	44	50	50
128+25	15240 3RD AVE NE, SHORELINE	SF	72	214	214	195	195	214	214	52	52	45	45	52	52
129+00	401 NE 153RD ST, SHORELINE	SF	72	349	349	326	326	349	349	50	50	44	44	50	50
129+25	15451 4TH AVE NE, SHORELINE	SF	72	367	367	343	343	367	367	49	49	44	44	49	49
130+00	15404 2ND AVE NE, SHORELINE	SF	72	241	241	217	217	241	241	51	51	45	45	51	51
130+50	15401 2ND AVE NE, SHORELINE	SF	72	138	138	113	113	138	138	54	54	49	49	54	54
130+50	15407 2ND AVE NE, SHORELINE	SF	72	126	126	101	101	126	126	55	55	51	51	55	55
130+75	15408 2ND AVE NE, SHORELINE	SF	72	302	302	278	278	302	302	50	50	44	44	50	50
131+00	145 NE 155TH ST, SHORELINE	MF	72	80	80	55	55	80	80	59	59	54	54	59	59
131+50	15419 2ND AVE NE, SHORELINE	SF	72	169	169	144	144	169	169	53	53	46	46	53	53
132+00	15425 ND AVE NE, SHORELINE	SF	72	195	195	170	170	195	195	48	48	46	46	48	48
132+75	165 NE 155TH ST, SHORELINE	SF	72	219	219	193	193	219	219	48	48	45	45	48	48
133+00	157 NE 156TH ST, SHORELINE	SF	72	413	413	388	388	413	413	46	46	43	43	46	46

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
133+25	151 NE 156TH ST, SHORELINE	SF	72	357	357	331	331	357	357	47	47	44	44	47	47
133+50	143 NE 156TH ST, SHORELINE	SF	72	300	300	275	275	300	300	47	47	44	44	47	47
133+75	137 NE 156TH ST, SHORELINE	SF	72	244	244	DISP	DISP	244	244	48	48	---	---	48	48
134+25	132 NE 155TH ST, SHORELINE	SF	72	178	178	DISP	DISP	178	178	49	49	---	---	49	49
134+50	125 NE 156TH ST, SHORELINE	SF	72	105	105	DISP	DISP	105	105	51	51	---	---	51	51
134+75	156 NE 156TH ST, SHORELINE	SF	72	482	482	456	456	482	482	46	46	43	43	46	46
134+75	110 NE 155TH ST, SHORELINE	SF	72	73	73	DISP	DISP	73	73	54	54	---	---	54	54
135+00	148 NE 156TH ST, SHORELINE	SF	72	418	418	392	392	418	418	46	46	43	43	46	46
135+25	142 NE 156TH ST, SHORELINE	SF	72	354	354	328	328	354	354	47	47	44	44	47	47
135+75	136 NE 156TH ST, SHORELINE	SF	72	290	290	DISP	DISP	290	290	47	47	---	---	47	47
136+00	130 NE 156TH ST, SHORELINE	SF	72	226	226	DISP	DISP	226	226	48	48	---	---	48	48
136+25	15615 3RD AVE NE, SHORELINE	SF	72	480	480	455	455	480	480	46	46	43	43	46	46
136+50	104 NE 156TH ST, SHORELINE	SF	72	75	75	DISP	DISP	75	75	54	54	---	---	54	54
136+50	106 NE 155TH ST, SHORELINE	SF	72	36	36	DISP	DISP	36	36	61	61	---	---	61	61
137+00	229 NE 157TH ST, SHORELINE	SF	72	312	312	289	289	312	312	47	47	44	44	47	47
137+00	15621 3RD AVE NE, SHORELINE	SF	72	500	500	476	476	500	500	45	45	43	43	45	45
137+25	223 NE 157TH ST, SHORELINE	SF	72	255	255	233	233	255	255	48	48	45	45	48	48
137+25	241 NE 157TH ST, SHORELINE	SF	72	443	443	420	420	443	443	46	46	43	43	46	46
137+50	122 NE 156TH ST, SHORELINE	SF	72	184	184	DISP	DISP	184	184	48	48	---	---	48	48
137+50	125 NE 157TH ST, SHORELINE	SF	72	201	201	179	179	201	201	48	48	46	46	48	48
137+50	235 NE 157TH ST, SHORELINE	SF	72	386	386	364	364	386	386	46	46	44	44	46	46
137+75	108 NE 156TH ST, SHORELINE	SF	72	130	130	DISP	DISP	130	130	50	50	---	---	50	50
137+75	15625 3RD AVE NE, SHORELINE	SF	72	517	517	495	495	517	517	45	45	42	42	45	45
138+25	117 NE 157TH ST, SHORELINE	SF	72	150	150	130	130	150	150	49	49	47	47	49	49

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
138+25	15618 1ST AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
138+50	111 NE 157TH ST, SHORELINE	SF	72	91	91	72	72	91	91	51	51	55	55	51	51
138+75	101 NE 157TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
139+75	126 NE 157TH ST, SHORELINE	SF	72	256	256	239	239	256	256	48	48	48	48	48	48
140+00	116 NE 157TH ST, SHORELINE	SF	72	199	199	183	183	199	199	48	48	48	48	48	48
140+50	108 NE 157TH ST, SHORELINE	SF	72	105	105	105	105	105	105	51	51	58	58	51	51
140+75	15710 1ST AVE NE, SHORELINE	SF	72	130	130	145	145	130	130	50	50	53	53	50	50
141+25	117 NE 158TH ST, SHORELINE	SF	72	218	218	205	205	218	218	52	52	52	52	52	52
141+50	111 NE 158TH ST, SHORELINE	SF	72	150	150	137	137	150	150	53	53	54	54	53	53
141+50	105 NE 158TH ST, SHORELINE	SF	72	102	102	92	92	102	102	59	59	61	61	59	59
145+00	116 NE 158TH ST, SHORELINE	SF	72	221	221	221	221	221	221	52	52	52	52	52	52
145+00	110 NE 158TH ST, SHORELINE	SF	72	152	152	152	152	152	152	53	53	53	53	53	53
145+00	104 NE 158TH ST, SHORELINE	SF	72	107	107	107	107	107	107	58	58	58	58	58	58
146+25	105 NE 159TH ST, SHORELINE	SF	72	78	78	78	78	78	78	63	63	63	63	63	63
146+50	117 NE 159TH ST, SHORELINE	SF	72	204	204	204	204	204	204	52	52	52	52	52	52
146+50	113 NE 159TH ST, SHORELINE	SF	72	135	135	135	135	135	135	54	54	54	54	54	54
148+25	104 NE 159TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
148+50	118 NE 159TH ST, SHORELINE	SF	72	166	166	166	166	166	166	53	53	53	53	53	53
148+50	114 NE 159TH ST, SHORELINE	SF	72	138	138	138	138	138	138	54	54	54	54	54	54
149+00	15918 1ST AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
149+75	15924 1ST AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
150+00	123 NE 161ST ST, SHORELINE	SF	72	173	173	173	173	173	173	53	53	53	53	53	53
150+00	115 NE 161ST ST, SHORELINE	SF	72	114	114	114	114	114	114	57	57	57	57	57	57
151+75	114 NE 161ST ST, SHORELINE	SF	72	100	100	100	100	100	100	59	59	59	59	59	59

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
152+00	128 NE 161ST ST, SHORELINE	SF	72	184	184	184	184	184	184	52	52	52	52	52	52
152+00	122 NE 161ST ST, SHORELINE	SF	72	125	125	125	125	125	125	56	56	56	56	56	56
155+50	121 NE 163RD ST, SHORELINE	SF	72	27	27	27	27	27	27	77	77	77	77	77	77
156+25	303 NE 163RD ST, SHORELINE	SF	72	147	147	147	147	147	147	53	53	53	53	53	53
156+25	129 NE 163RD ST, SHORELINE	SF	72	102	102	102	102	102	102	59	59	59	59	59	59
157+25	128 NE 163RD ST, SHORELINE	SF	72	80	80	80	80	80	80	63	63	63	63	63	63
157+75	304 NE 163RD ST, SHORELINE	SF	72	124	124	124	124	124	124	56	56	56	56	56	56
157+75	310 NE 163RD ST, SHORELINE	SF	72	184	184	184	184	184	184	52	52	52	52	52	52
157+75	124 NE 163RD ST, SHORELINE	SF	72	71	71	71	71	71	71	64	64	64	64	64	64
158+00	127 NE 164TH ST, SHORELINE	SF	72	68	68	68	68	68	68	65	65	65	65	65	65
158+75	139 NE 164TH ST, SHORELINE	SF	72	174	174	174	174	174	174	53	53	53	53	53	53
158+75	135 NE 164TH ST, SHORELINE	SF	72	114	114	114	114	114	114	57	57	57	57	57	57
160+25	134 NE 164TH ST, SHORELINE	SF	72	117	117	117	117	117	117	57	57	57	57	57	57
160+25	140 NE 164TH ST, SHORELINE	SF	72	167	167	167	167	167	167	53	53	53	53	53	53
160+50	127 NE 165TH ST, SHORELINE	SF	72	58	58	58	58	58	58	67	67	67	67	67	67
160+50	132 NE 164TH ST, SHORELINE	SF	72	58	58	58	58	58	58	67	67	67	67	67	67
160+75	141 NE 165TH ST, SHORELINE	SF	72	166	166	166	166	166	166	53	53	53	53	53	53
160+75	135 NE 165TH ST, SHORELINE	SF	72	117	117	117	117	117	117	57	57	57	57	57	57
161+75	140 NE 165TH ST, SHORELINE	SF	72	182	182	182	182	182	182	52	52	52	52	52	52
162+00	126 NE 165TH ST, SHORELINE	SF	72	53	53	53	53	53	53	69	69	69	69	69	69
162+00	132 NE 165TH ST, SHORELINE	SF	72	126	126	126	126	126	126	55	55	55	55	55	55
163+00	140 NE 165TH PL, SHORELINE	SF	72	208	208	208	208	208	208	52	52	52	52	52	52
163+00	124 NE 165TH PL, SHORELINE	SF	72	51	51	51	51	51	51	69	69	69	69	69	69
163+25	134 NE 165TH PL, SHORELINE	SF	72	140	140	140	140	140	140	54	54	54	54	54	54
164+25	131 NE 166TH ST, SHORELINE	SF	72	153	153	153	153	153	153	53	53	53	53	53	53
164+25	123 NE 166TH ST, SHORELINE	SF	72	107	107	107	107	107	107	58	58	58	58	58	58

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
164+25	119 NE 166TH ST, SHORELINE	SF	72	43	43	43	43	43	43	71	71	71	71	71	71
165+50	130 NE 166TH ST, SHORELINE	SF	72	183	183	183	183	183	183	52	52	52	52	52	52
165+75	124 NE 166TH ST, SHORELINE	SF	72	129	129	129	129	129	129	55	55	55	55	55	55
166+00	120 NE 166TH ST, SHORELINE	SF	72	62	62	62	62	62	62	66	66	66	66	66	66
166+75	117 NE 167TH ST, SHORELINE	SF	72	123	123	123	123	123	123	56	56	56	56	56	56
166+75	123 NE 167TH ST, SHORELINE	SF	72	153	153	153	153	153	153	53	53	53	53	53	53
168+00	111 NE 167TH ST, SHORELINE	SF	72	69	69	69	69	69	69	65	65	65	65	65	65
169+00	132 NE 167TH ST, SHORELINE	SF	72	240	240	240	240	240	240	51	51	51	51	51	51
169+00	136 NE 167TH ST, SHORELINE	SF	72	299	299	299	299	299	299	50	50	50	50	50	50
169+50	114 NE 167TH ST, SHORELINE	SF	72	28	28	28	28	28	28	76	76	76	76	76	76
169+50	118 NE 167TH ST, SHORELINE	SF	72	94	94	94	94	94	94	60	60	60	60	60	60
169+75	126 NE 167TH ST, SHORELINE	SF	72	173	173	173	173	173	173	53	53	53	53	53	53
169+75	16719 3RD AVE NE, SHORELINE	SF	72	236	236	236	236	236	236	51	51	51	51	51	51
170+25	16719 2ND AVE NE, SHORELINE	SF	72	69	69	69	69	69	69	65	65	65	65	65	65
170+25	16716 2ND AVE NE, SHORELINE	SF	72	153	153	153	153	153	153	53	53	53	53	53	53
170+50	16725 3RD AVE NE, SHORELINE	SF	72	267	267	267	267	267	267	51	51	51	51	51	51
170+75	16723 2ND AVE NE, SHORELINE	SF	72	65	65	65	65	65	65	66	66	66	66	66	66
171+00	16722 2ND AVE NE, SHORELINE	SF	72	150	150	150	150	150	150	53	53	53	53	53	53
171+50	16729 2ND AVE NE, SHORELINE	SF	72	61	61	61	61	61	61	67	67	67	67	67	67
171+50	16728 2ND AVE NE, SHORELINE	SF	72	146	146	146	146	146	146	53	53	53	53	53	53

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
171+75	16735 3RD AVE NE, SHORELINE	SF	72	261	261	261	261	261	261	51	51	51	51	51	51
172+25	16731 2ND AVE NE, SHORELINE	SF	72	62	62	62	62	62	62	66	66	66	66	66	66
172+25	16741 3RD AVE NE, SHORELINE	SF	72	252	252	252	252	252	252	51	51	51	51	51	51
172+25	16738 2ND AVE NE, SHORELINE	SF	72	141	141	141	141	141	141	54	54	54	54	54	54
172+75	16735 2ND AVE NE, SHORELINE	SF	72	54	54	54	54	54	54	68	68	68	68	68	68
173+00	16747 3RD AVE NE, SHORELINE	SF	72	215	215	215	215	215	215	52	52	52	52	52	52
173+50	16741 2ND AVE NE, SHORELINE	SF	72	55	55	55	55	55	55	68	68	68	68	68	68
173+50	16742 2ND AVE NE, SHORELINE	SF	72	127	127	127	127	127	127	55	55	55	55	55	55
173+75	16753 3RD AVE NE, SHORELINE	SF	72	206	206	206	206	206	206	52	52	52	52	52	52
174+75	109 NE 170TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
174+75	16761 3RD AVE NE, SHORELINE	SF	72	189	189	189	189	189	189	52	52	52	52	52	52
175+00	121 NE 170TH ST, SHORELINE	SF	72	133	133	133	133	133	133	55	55	55	55	55	55
175+00	204 NE 170TH ST, SHORELINE	SF	72	403	403	403	403	403	403	49	49	49	49	49	49
175+00	119 NE 170TH ST, SHORELINE	SF	72	53	53	53	53	53	53	69	69	69	69	69	69
175+50	104 NE 170TH ST, SHORELINE	SF	72	105	105	105	105	105	105	58	58	58	58	58	58
175+50	110 NE 170TH ST, SHORELINE	SF	72	209	209	209	209	209	209	52	52	52	52	52	52
176+00	17010 2ND AVE NE, SHORELINE	SF	72	409	409	409	409	409	409	49	49	49	49	49	49
176+25	17010 1ST AVE NE, SHORELINE	SF	72	106	106	106	106	106	106	58	58	58	58	58	58

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
176+25	17011 2ND AVE NE, SHORELINE	SF	72	214	214	214	214	214	214	52	52	52	52	52	52
176+75	17017 2ND AVE NE, SHORELINE	SF	72	217	217	217	217	217	217	52	52	52	52	52	52
176+75	17016 2ND AVE NE, SHORELINE	SF	72	412	412	412	412	412	412	49	49	49	49	49	49
177+00	17016 1ST AVE NE, SHORELINE	SF	72	105	105	105	105	105	105	58	58	58	58	58	58
178+00	17022 2ND AVE NE, SHORELINE	SF	72	413	413	413	413	413	413	49	49	49	49	49	49
178+25	17022 1ST AVE NE, SHORELINE	SF	72	104	104	104	104	104	104	59	59	59	59	59	59
178+25	17023 2ND AVE NE, SHORELINE	SF	72	218	218	218	218	218	218	52	52	52	52	52	52
178+75	17028 1ST AVE NE, SHORELINE	SF	72	107	107	107	107	107	107	58	58	58	58	58	58
178+75	17029 2ND AVE NE, SHORELINE	SF	72	215	215	215	215	215	215	52	52	52	52	52	52
179+00	17028 2ND AVE NE, SHORELINE	SF	72	411	411	411	411	411	411	49	49	49	49	49	49
179+50	17034 1ST AVE NE, SHORELINE	SF	72	99	99	99	99	99	99	59	59	59	59	59	59
179+50	17035 2ND AVE NE, SHORELINE	SF	72	211	211	211	211	211	211	52	52	52	52	52	52
179+75	17034 2ND AVE NE, SHORELINE	SF	72	407	407	407	407	407	407	49	49	49	49	49	49
180+00	17040 1ST AVE NE, SHORELINE	SF	72	97	97	97	97	97	97	60	60	60	60	60	60
180+25	17041 2ND AVE NE, SHORELINE	SF	72	205	205	205	205	205	205	52	52	52	52	52	52

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
180+25	17040 2ND AVE NE, SHORELINE	SF	72	401	401	401	401	401	401	49	49	49	49	49	49
180+75	17046 1ST AVE NE, SHORELINE	SF	72	85	85	85	85	85	85	62	62	62	62	62	62
180+75	17047 2ND AVE NE, SHORELINE	SF	72	198	198	198	198	198	198	52	52	52	52	52	52
181+00	17046 2ND AVE NE, SHORELINE	SF	72	393	393	393	393	393	393	49	49	49	49	49	49
181+25	17052 1ST AVE NE, SHORELINE	SF	72	72	72	72	72	72	72	64	64	64	64	64	64
181+50	17053 2ND AVE NE, SHORELINE	SF	72	189	189	189	189	189	189	52	52	52	52	52	52
181+75	17052 2ND AVE NE, SHORELINE	SF	72	383	383	383	383	383	383	49	49	49	49	49	49
182+00	17058 1ST AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
182+25	17059 2ND AVE NE, SHORELINE	SF	72	178	178	178	178	178	178	52	52	52	52	52	52
182+50	17204 1ST AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
182+50	17058 2ND AVE NE, SHORELINE	SF	72	371	371	371	371	371	371	49	49	49	49	49	49
182+75	17205 2ND AVE NE, SHORELINE	SF	72	165	165	165	165	165	165	53	53	53	53	53	53
183+25	17210 1ST AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
183+25	17204 2ND AVE NE, SHORELINE	SF	72	357	357	357	357	357	357	50	50	50	50	50	50
183+50	17211 2ND AVE NE, SHORELINE	SF	72	151	151	151	151	151	151	53	53	53	53	53	53

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
183+75	17216 1ST AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
183+75	17222 1ST AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
184+00	17210 2ND AVE NE, SHORELINE	SF	72	342	342	342	342	342	342	50	50	50	50	50	50
184+25	17217 2ND AVE NE, SHORELINE	SF	72	135	135	135	135	135	135	54	54	54	54	54	54
184+50	105 NE 174TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
184+75	17223 2ND AVE NE, SHORELINE	SF	72	117	117	117	117	117	117	50	50	50	50	50	50
184+75	17216 2ND AVE NE, SHORELINE	SF	72	325	325	325	325	325	325	47	47	47	47	47	47
185+25	17222 2ND AVE NE, SHORELINE	SF	72	306	306	306	306	306	306	47	47	47	47	47	47
185+50	111 NE 174TH ST, SHORELINE	SF	72	98	98	98	98	98	98	51	51	51	51	51	51
185+75	110 NE 174TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
186+00	205 NE 174TH ST, SHORELINE	SF	72	286	286	286	286	286	286	47	47	47	47	47	47
187+25	116 NE 174TH ST, SHORELINE	SF	72	70	63	70	63	70	63	55	56	55	56	55	56
187+50	122 NE 174TH ST, SHORELINE	SF	72	73	73	73	73	73	73	54	54	54	54	54	54
187+50	128 NE 174TH ST, SHORELINE	SF	72	130	130	130	130	130	130	50	50	50	50	50	50
187+75	204 NE 174TH ST, SHORELINE	SF	72	187	187	187	187	187	187	48	48	48	48	48	48
188+00	210 NE 174TH ST, SHORELINE	SF	72	247	247	247	247	247	247	48	48	48	48	48	48
189+00	211 NE 175TH ST, SHORELINE	SF	72	203	203	203	203	203	203	48	48	48	48	48	48
189+50	217 NE 175TH ST, SHORELINE	SF	72	255	255	255	255	255	255	48	48	48	48	48	48
189+75	223 NE 175TH ST, SHORELINE	SF	72	308	308	308	308	308	308	47	47	47	47	47	47
190+75	208 NE 175TH ST, SHORELINE	SF	72	90	90	90	90	90	90	52	52	52	52	52	52
192+00	216 NE 175TH ST, SHORELINE	SF	72	119	119	119	119	119	119	50	50	50	50	50	50
192+00	222 NE 175TH ST, SHORELINE	SF	72	222	222	222	222	222	222	48	48	48	48	48	48

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
192+25	230 NE SERPENTINE PL, SHORELINE	SF	72	280	280	280	280	280	280	47	47	47	47	47	47
192+50	206 NE 175TH ST, SHORELINE	SF	72	21	23	21	23	21	23	65	65	65	65	65	65
192+50	17733 2ND PL NE, SHORELINE	SF	72	82	78	82	78	82	78	53	53	53	53	53	53
192+75	218 NE 175TH ST, SHORELINE	SF	72	73	73	73	73	73	73	54	54	54	54	54	54
192+75	17737 2ND PL NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
193+25	220 NE 175TH ST, SHORELINE	SF	72	137	137	137	137	137	137	50	50	50	50	50	50
193+25	17734 2ND PL NE, SHORELINE	SF	72	138	138	138	138	138	138	50	50	50	50	50	50
193+75	234 NE SERPENTINE PL, SHORELINE	SF	72	217	217	217	217	217	217	48	48	48	48	48	48
194+25	17741 2ND PL NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
195+00	17738 2ND PL NE, SHORELINE	SF	72	191	191	191	191	191	191	48	48	48	48	48	48
195+00	17747 2ND PL NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
195+75	308 NE SERPENTINE PL, SHORELINE	SF	72	279	279	279	279	279	279	47	47	47	47	47	47
195+75	17753 2ND PL NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
196+00	17748 2ND PL NE, SHORELINE	SF	72	128	128	128	128	128	128	50	50	50	50	50	50
196+25	239 NE 178TH ST, SHORELINE	SF	72	126	126	126	126	126	126	50	50	50	50	50	50
196+75	224 NE 178TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
197+25	230 NE 178TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
197+25	311 NE 178TH ST, SHORELINE	SF	72	198	198	198	198	198	198	48	48	48	48	48	48
198+00	17803 3RD AVE NE, SHORELINE	SF	72	80	81	80	81	80	81	53	53	53	53	53	53
198+50	17804 3RD AVE NE, SHORELINE	SF	72	182	182	182	182	182	182	48	48	48	48	48	48
198+75	17809 3RD AVE NE, SHORELINE	SF	72	45	44	45	44	45	44	59	59	59	59	59	59
198+75	17815 3RD AVE NE, SHORELINE	SF	72	27	27	27	27	27	27	63	63	63	63	63	63

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
199+00	17810 3RD AVE NE, SHORELINE	SF	72	160	160	160	160	160	160	49	49	49	49	49	49
199+00	312 NE 178TH ST, SHORELINE	SF	72	267	267	267	267	267	267	47	47	47	47	47	47
199+75	330 NE 178TH ST, SHORELINE	SF	72	311	311	311	311	311	311	50	47	50	47	50	47
199+75	17821 3RD AVE NE, SHORELINE	SF	72	35	35	35	35	35	35	74	66	74	66	74	66
200+00	17822 3RD AVE NE, SHORELINE	SF	72	151	151	151	151	151	151	53	49	53	49	53	49
200+00	17816 3RD AVE NE, SHORELINE	SF	72	184	184	184	184	184	184	52	48	52	48	52	48
200+25	336 NE 178TH ST, SHORELINE	SF	72	368	368	368	368	368	368	49	47	49	47	49	47
200+75	340 NE 178TH ST, SHORELINE	SF	72	259	259	259	259	259	259	51	48	51	48	51	48
200+75	17825 3RD AVE NE, SHORELINE	SF	72	106	73	106	73	106	73	58	54	58	54	58	54
201+50	344 NE 178TH ST, SHORELINE	SF	72	213	213	213	213	213	213	52	48	52	48	52	48
201+75	337 NE 180TH ST, SHORELINE	SF	72	164	98	164	98	164	98	53	51	53	51	53	51
202+00	348 NE 178TH ST, SHORELINE	SF	72	311	311	311	311	311	311	50	47	50	47	50	47
202+50	335 NE 180TH ST, SHORELINE	SF	72	115	115	115	115	115	115	57	50	57	50	57	50
202+75	333 NE 180TH ST, SHORELINE	SF	72	70	71	70	71	70	71	65	55	65	55	65	55
202+75	17833 5TH AVE NE, SHORELINE	SF	72	315	315	315	315	315	315	50	47	50	47	50	47
203+25	331 NE 180TH ST, SHORELINE	SF	72	39	39	39	39	39	39	78	65	78	65	78	65
203+75	17845 5TH AVE NE, SHORELINE	SF	72	265	265	265	265	265	265	51	48	51	48	51	48
204+25	17857 5TH AVE NE, SHORELINE	SF	72	229	229	229	229	229	229	52	48	52	48	52	48
204+50	332 NE 180TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
204+75	17861 5TH AVE NE, SHORELINE	SF	72	190	190	190	190	190	190	52	48	52	48	52	48

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
206+00	18019 5TH AVE NE, SHORELINE	SF	72	37	37	37	37	37	37	73	67	73	67	73	67
206+00	338 NE 180TH ST, SHORELINE	SF	72	51	50	50	50	50	50	69	61	69	61	69	61
206+25	344 NE 180TH ST, SHORELINE	SF	72	102	101	102	101	102	101	59	51	59	51	59	51
206+50	350 NE 180TH ST, SHORELINE	SF	72	165	106	166	106	166	106	53	51	53	51	53	51
207+00	18017 5TH AVE NE, SHORELINE	SF	72	110	72	110	72	110	72	58	54	58	54	58	54
207+00	356 NE 180TH ST, SHORELINE	SF	72	158	158	158	158	158	158	53	49	53	49	53	49
207+75	18023 5TH AVE NE, SHORELINE	SF	72	78	76	76	76	76	76	63	54	63	54	63	54
208+25	18016 5TH AVE NE, SHORELINE	SF	72	219	219	219	219	219	219	52	48	52	48	52	48
208+50	18027 5TH AVE NE, SHORELINE	SF	72	57	57	57	57	57	57	68	57	68	57	68	57
209+25	18031 5TH AVE NE, SHORELINE	SF	72	35	34	34	34	34	34	74	62	74	62	74	62
209+50	18034 5TH AVE NE, SHORELINE	SF	72	137	137	137	137	137	137	54	50	54	50	54	50
209+50	18041 5TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
210+00	18036 5TH AVE NE, SHORELINE	SF	72	158	104	155	104	155	104	53	51	53	51	53	51
210+50	504 NE 182ND CT, SHORELINE	SF	72	118	73	113	73	113	73	57	54	57	54	57	54
211+25	18210 5TH AVE NE, SHORELINE	SF	72	66	68	61	68	61	68	65	55	67	55	67	55
211+25	505 NE 183RD CT, SHORELINE	SF	72	DISP	81	DISP	81	DISP	81	---	53	---	53	---	53
211+75	514 NE 182ND CT, SHORELINE	SF	72	166	166	155	166	155	166	53	49	53	49	53	49
212+25	515 NE 183RD CT, SHORELINE	SF	72	157	157	141	157	141	157	53	49	54	49	54	49
212+50	18310 5TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
212+75	18320 5TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
213+25	18326 5TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
213+50	514 NE 183RD CT, SHORELINE	SF	72	123	80	98	80	98	80	56	53	58	53	58	53
213+75	520 NE 183RD CT, SHORELINE	SF	72	146	146	118	146	118	146	53	49	56	49	56	49
214+00	18330 5TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
214+00	18069 7TH AVE NE, SHORELINE	SF	72	211	211	181	211	181	211	52	48	51	48	51	48
214+50	18301 7TH AVE NE, SHORELINE	SF	72	186	186	153	186	153	186	52	48	53	48	53	48
215+00	18307 7TH AVE NE, SHORELINE	SF	72	165	165	131	165	131	165	53	49	55	49	55	49
215+50	18313 7TH AVE NE, SHORELINE	SF	72	144	144	109	144	109	144	53	49	57	49	57	49
215+75	18308 7TH AVE NE, SHORELINE	SF	72	315	315	279	315	279	315	50	47	50	47	50	47
216+25	18323 8TH AVE NE, SHORELINE	SF	72	181	181	147	181	147	181	52	48	50	48	50	48
216+25	18316 7TH AVE NE, SHORELINE	SF	72	187	187	152	187	152	187	52	48	49	48	49	48
216+50	18317 8TH AVE NE, SHORELINE	SF	72	299	299	265	299	265	299	46	44	46	44	46	44
217+00	18329 8TH AVE NE, SHORELINE	SF	72	200	200	167	200	167	200	47	45	48	45	48	45
218+50	721 NE 185TH ST, SHORELINE	SF	72	199	199	176	199	176	199	47	45	47	45	47	45
218+75	731 NE 185TH ST, SHORELINE	SF	72	260	260	240	260	240	260	46	45	47	45	47	45
219+25	18342 8TH AVE NE, SHORELINE	SF	72	434	434	417	434	417	434	45	43	45	43	45	43

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
220+00	814 NE 185TH ST, SHORELINE	SF	72	464	464	455	464	455	464	44	43	45	43	45	43
220+50	18510 7TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
220+75	18509 8TH AVE NE, SHORELINE	SF	72	248	DISP	DISP	DISP	DISP	DISP	46	---	---	---	---	---
220+75	18511 8TH AVE NE, SHORELINE	SF	72	187	DISP	DISP	DISP	DISP	DISP	47	---	---	---	---	---
220+75	18504 8TH AVE NE, SHORELINE	SF	72	391	391	388	391	388	391	45	43	45	43	45	43
221+00	18516 7TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
221+25	18517 8TH AVE NE, SHORELINE	SF	72	171	DISP	DISP	DISP	DISP	DISP	47	---	---	---	---	---
221+50	18520 7TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
221+50	18510 8TH AVE NE, SHORELINE	SF	72	375	375	378	375	378	375	45	43	45	43	45	43
222+00	18523 8TH AVE NE, SHORELINE	SF	72	155	DISP	DISP	DISP	DISP	DISP	49	---	---	---	---	---
222+00	18516 8TH AVE NE, SHORELINE	SF	72	360	360	368	360	368	360	45	44	45	44	45	44
222+25	18528 7TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
222+50	18529 8TH AVE NE, SHORELINE	SF	72	148	DISP	DISP	DISP	DISP	DISP	50	---	---	---	---	---
222+75	18534 7TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
222+75	18522 8TH AVE NE, SHORELINE	SF	72	345	345	359	345	359	345	46	44	45	44	45	44
223+25	18533 8TH AVE NE, SHORELINE	SF	72	134	DISP	DISP	DISP	DISP	DISP	51	---	---	---	---	---

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
223+25	18528 8TH AVE NE, SHORELINE	SF	72	330	330	349	330	349	330	46	44	45	44	45	44
223+50	18540 7TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
223+50	18546 7TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
223+75	18539 8TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
223+75	18534 8TH AVE NE, SHORELINE	SF	72	315	315	339	315	339	315	46	44	46	44	46	44
224+00	18547 8TH AVE NE, SHORELINE	SF	72	107	107	135	107	135	107	55	50	51	50	51	50
224+00	18552 7TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
224+50	18540 8TH AVE NE, SHORELINE	SF	72	299	299	329	299	329	299	46	44	46	44	46	44
224+75	18558 7TH AVE NE, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
225+00	18553 8TH AVE NE, SHORELINE	SF	72	166	78	113	78	113	78	48	54	54	54	54	54
225+25	703 NE 189TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
225+50	18559 8TH AVE NE, SHORELINE	SF	72	133	64	104	64	104	64	51	56	55	56	55	56
225+50	18554 8TH AVE NE, SHORELINE	SF	72	270	270	309	270	309	270	46	44	46	44	46	44
225+75	811 NE 188TH ST, SHORELINE	SF	72	334	334	375	334	375	334	46	44	45	44	45	44
225+75	817 NE 188TH ST, SHORELINE	SF	72	392	392	433	392	433	392	45	43	45	43	45	43
226+00	823 NE 188TH ST, SHORELINE	SF	72	451	451	493	451	493	451	45	43	44	43	44	43
226+00	829 NE 188TH ST, SHORELINE	SF	72	509	509	551	509	551	509	44	42	44	42	44	42
226+00	835 NE 188TH ST, SHORELINE	SF	72	569	569	611	569	611	569	44	42	43	42	43	42

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
226+25	707 NE 189TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
226+25	841 NE 188TH ST, SHORELINE	SF	72	628	628	672	628	672	628	43	41	43	41	43	41
226+25	841 NE 188TH ST, SHORELINE	SF	72	628	628	672	628	672	628	43	41	43	41	43	41
227+00	18807 8TH AVE NE, SHORELINE	SF	72	107	107	152	107	152	107	55	50	53	50	53	50
227+00	721 NE 189TH ST, SHORELINE	SF	72	69	67	112	67	112	67	61	56	57	56	57	56
227+00	715 NE 189TH ST, SHORELINE	SF	72	DISP	DISP	DISP	DISP	DISP	DISP	---	---	---	---	---	---
227+25	810 NE 188TH ST, SHORELINE	SF	72	301	301	345	301	345	301	46	44	50	44	50	44
227+25	18810 8TH AVE NE, SHORELINE	SF	72	232	232	277	232	277	232	47	45	51	45	51	45
228+25	719 NE 189TH ST, SHORELINE	SF	72	46	45	85	45	85	45	70	59	62	59	62	59
228+50	18820 8TH AVE NE, SHORELINE	SF	72	218	218	257	218	257	218	52	48	51	48	51	48
228+50	727 NE 189TH ST, SHORELINE	SF	72	105	89	128	89	128	89	58	52	55	52	55	52
228+75	811 NE 189TH ST, SHORELINE	SF	72	286	286	324	286	324	286	51	47	50	47	50	47
229+00	718 NE 189TH ST, SHORELINE	SF	72	DISP	DISP	30	DISP	30	DISP	---	---	76	---	76	---
230+25	18915 8TH AVE NE, SHORELINE	SF	72	DISP	DISP	23	DISP	23	DISP	---	---	78	---	78	---
230+25	728 NE 189TH ST, SHORELINE	SF	72	83	81	115	81	115	81	62	53	57	53	57	53
230+50	810 NE 189TH ST, SHORELINE	SF	72	266	266	293	266	293	266	51	48	51	48	51	48
230+50	18910 8TH AVE NE, SHORELINE	SF	72	197	197	224	197	224	197	52	48	52	48	52	48
231+00	18921 8TH AVE NE, SHORELINE	SF	72	24	24	46	24	46	24	78	64	70	64	70	64
231+75	18920 8TH AVE NE, SHORELINE	SF	72	185	185	204	185	204	185	52	48	52	48	52	48
231+75	811 NE 190TH ST, SHORELINE	SF	72	254	254	273	254	273	254	51	48	51	48	51	48
232+00	19011 8TH AVE NE, SHORELINE	SF	72	93	73	101	73	101	73	60	54	59	54	59	54

Table D-1. Projected Vibration for Segment A Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
233+25	19031 8TH AVE NE, SHORELINE	SF	72	96	80	104	80	104	80	60	53	59	53	59	53

Bold text Bold numbers in cells indicate vibration impact (See main text for summary of number of impacts for each segment alternative)

SF Single-Family Residence

MF Multi-Family Residence

HT Hotel

CH Church

SC School

DISP Indicates properties that would be displaced by the project

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
306+50	817 NE 194TH ST, SHORELINE	SF	72	129	129	129	129	55	55	55	55
307+50	805 NE 194TH ST, SHORELINE	SF	72	68	68	68	68	65	65	65	65
307+75	823 NE 194TH ST, SHORELINE	SF	72	183	183	183	183	52	52	52	52
308+00	831 NE 194TH ST, SHORELINE	SF	72	246	246	246	246	51	51	51	51
308+75	814 NE 194TH ST, SHORELINE	SF	72	60	60	60	60	67	67	67	67
309+25	812 NE 194TH ST, SHORELINE	SF	72	88	88	88	88	61	61	61	61
309+50	818 NE 194TH ST, SHORELINE	SF	72	125	125	125	125	56	56	56	56
309+75	824 NE 194TH ST, SHORELINE	SF	72	186	186	186	186	52	52	52	52
310+25	815 NE 195TH ST, SHORELINE	SF	72	93	93	93	93	60	60	60	60
310+50	821 NE 195TH ST, SHORELINE	SF	72	126	126	126	126	55	55	55	55
310+75	827 NE 195TH ST, SHORELINE	SF	72	186	186	186	186	52	52	52	52
312+50	822 NE 195TH ST, SHORELINE	SF	72	63	63	63	63	66	66	66	66
312+50	834 NE 195TH ST, SHORELINE	SF	72	136	136	136	136	54	54	54	54
313+00	840 NE 195TH ST, SHORELINE	SF	72	164	164	164	164	53	53	53	53
314+25	19705 10TH AVE NE, SHORELINE	SF	72	48	48	48	48	70	70	70	70
314+25	19604 10TH AVE NE, SHORELINE	SF	72	239	239	239	239	51	51	51	51
314+75	19715 10TH AVE NE, SHORELINE	SF	72	60	60	60	60	67	67	67	67
315+75	1010 NE 197TH ST, SHORELINE	SF	72	148	148	148	148	53	53	53	53
316+00	19723 10TH AVE NE, SHORELINE	SF	72	82	82	82	82	62	62	62	62
316+50	19728 10TH AVE NE, SHORELINE	SF	72	164	164	164	164	53	53	53	53
317+50	19731 10TH AVE NE, SHORELINE	SF	72	124	124	124	124	56	56	56	56

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
318+75	19741 10TH AVE NE, SHORELINE	SF	72	202	202	202	202	52	52	52	52
319+75	1002 NE 198TH ST, SHORELINE	SF	72	133	133	133	133	55	55	55	55
321+00	1006 NE 198TH ST, SHORELINE	SF	72	140	140	140	140	54	54	54	54
321+00	1000 NE 198TH ST, SHORELINE	SF	72	88	88	88	88	61	61	61	61
323+25	1103 NE 200TH ST, SHORELINE	SF	72	102	102	102	102	51	51	51	51
324+25	1107 NE 200TH ST, SHORELINE	SF	72	187	187	187	187	48	48	48	48
324+50	1109 NE 200TH ST, SHORELINE	SF	72	241	241	241	241	48	48	48	48
325+75	1104 NE 200TH ST, SHORELINE	SF	72	152	152	152	150	49	49	49	49
326+00	1114 NE 200TH ST, SHORELINE	SF	72	242	242	242	240	48	48	48	48
326+75	1112 NE 200TH ST, SHORELINE	SF	72	249	249	249	246	48	48	48	48
327+00	1102 NE 200TH ST, SHORELINE	SF	72	98	98	98	94	51	51	51	51
327+25	1108 NE 200TH ST, SHORELINE	SF	72	96	96	96	92	51	51	51	51
327+50	1110 NE 200TH ST, SHORELINE	SF	72	141	141	141	137	50	50	50	50
327+75	20017 12TH AVE NE, SHORELINE	SF	72	209	209	209	204	48	48	48	48
328+00	20019 12TH AVE NE, SHORELINE	SF	72	278	278	278	273	47	47	47	47

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
328+25	20035 12TH AVE NE, SHORELINE	SF	72	95	95	95	89	51	51	51	52
328+50	20043 12TH AVE NE, SHORELINE	SF	72	96	96	96	89	51	51	51	52
328+75	20039 12TH AVE NE, SHORELINE	SF	72	219	219	219	212	48	48	48	48
329+25	20041 12TH AVE NE, SHORELINE	SF	72	196	196	196	189	48	48	48	48
330+00	20101 12TH AVE NE, SHORELINE	SF	72	199	199	199	191	48	48	48	48
330+75	20109 12TH AVE NE, SHORELINE	SF	72	188	188	188	178	48	48	48	49
330+75	20105 12TH AVE NE, SHORELINE	SF	72	179	179	179	169	49	49	49	49
331+00	20149 FOREST PARK DR NE, SHORELINE	SF	72	196	196	196	185	48	48	48	48
332+00	20145 FOREST PARK DR NE, SHORELINE	SF	72	278	278	278	265	47	47	47	48
332+25	20141 FOREST PARK DR NE, SHORELINE	SF	72	291	291	291	278	47	47	47	47
334+25	20307 14TH AVE NE, SHORELINE	SF	72	389	389	389	369	46	46	46	46
335+75	20313 14TH AVE NE, SHORELINE	SF	72	378	378	378	354	46	46	46	47
336+25	20317 14TH AVE NE, SHORELINE	MF	72	372	372	372	346	46	46	46	47
336+75	20327 14TH AVE NE, SHORELINE	MF	72	366	366	366	337	47	47	47	47
337+25	20329 14TH AVE NE, SHORELINE	MF	72	359	359	359	329	47	47	47	47

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
337+75	20333 14TH AVE NE, SHORELINE	MF	75	351	351	351	318	47	47	47	47
338+25	20343 14TH AVE NE, SHORELINE	MF	72	344	344	344	309	47	47	47	47
348+50	6015 244TH ST SW, MOUNTLAKE TERRACE	HT	72	569	569	569	498	48	48	48	48
354+25	23908 60TH AVE W, MOUNTLAKE TERRACE	SF	72	568	568	568	541	45	45	45	48
355+75	23904 60TH AVE W, MOUNTLAKE TERRACE	SF	72	519	519	519	535	45	45	45	48
356+50	23902 60TH AVE W, MOUNTLAKE TERRACE	SF	72	493	493	493	534	45	45	45	48
357+00	23900 60TH AVE W, MOUNTLAKE TERRACE	SF	72	467	467	467	535	46	46	46	42
357+25	23905 60TH AVE W, MOUNTLAKE TERRACE	SF	72	762	762	762	812	43	43	43	50
357+50	23810 60TH AVE W, MOUNTLAKE TERRACE	SF	72	440	440	440	539	46	46	46	42
358+25	23808 60TH AVE W, MOUNTLAKE TERRACE	SF	72	414	414	414	545	46	46	46	42
359+25	23806 60TH AVE W, MOUNTLAKE TERRACE	SF	72	364	364	364	553	47	47	47	42
360+50	23804 60TH AVE W, MOUNTLAKE TERRACE	SF	72	307	307	307	576	43	43	43	42
360+75	23802 60TH AVE W, MOUNTLAKE TERRACE	SF	72	384	384	384	691	41	41	41	40
362+00	5909 238TH ST SW, MOUNTLAKE TERRACE	SF	72	246	246	246	619	44	44	44	40
362+00	6001 238TH ST SW, MOUNTLAKE TERRACE	SF	72	336	336	336	723	42	42	42	40

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
362+25	5907 238TH ST SW, MOUNTLAKE TERRACE	SF	72	395	395	395	780	40	40	40	39
363+00	5908 237TH ST SW, MOUNTLAKE TERRACE	SF	72	344	344	344	765	42	42	42	40
363+00	5904 237TH ST SW, MOUNTLAKE TERRACE	SF	72	437	437	437	859	40	40	40	39
363+25	6002 237TH ST SW, MOUNTLAKE TERRACE	SF	72	224	224	224	645	45	45	45	40
364+00	5909 237TH ST SW, MOUNTLAKE TERRACE	SF	72	372	372	372	776	43	41	41	36
364+00	5907 237TH ST SW, MOUNTLAKE TERRACE	SF	72	432	432	432	836	43	40	40	36
364+50	5906 236TH ST SW, MOUNTLAKE TERRACE	SF	72	342	342	342	739	44	42	42	37
364+50	5904 236TH ST SW, MOUNTLAKE TERRACE	SF	72	432	432	432	827	43	40	40	36
367+00	23509 59TH PL W, MOUNTLAKE TERRACE	SF	72	489	489	489	881	42	42	42	36
367+50	6300 234TH ST SW, MOUNTLAKE TERRACE	SF	72	674	674	674	296	41	41	41	50
367+50	23506 59TH PL W, MOUNTLAKE TERRACE	SF	72	221	221	221	613	45	45	45	47
367+75	23507 59TH PL W, MOUNTLAKE TERRACE	SF	72	456	456	456	847	43	43	43	45
368+00	23505 59TH PL W, MOUNTLAKE TERRACE	SF	72	448	448	448	840	43	43	43	45
368+50	23504 59TH PL W, MOUNTLAKE TERRACE	SF	72	221	221	221	613	45	45	45	47
368+75	6301 234TH ST SW, MOUNTLAKE TERRACE	SF	72	675	675	675	303	41	41	41	50

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
368+75	23503 59TH PL W, MOUNTLAKE TERRACE	SF	72	449	449	449	840	43	43	43	45
369+25	23502 59TH PL W, MOUNTLAKE TERRACE	SF	72	221	221	221	613	45	45	45	47
369+50	23310 63RD AVE W, MOUNTLAKE TERRACE	SF	72	676	676	676	304	40	41	41	50
369+50	23501 59TH PL W, MOUNTLAKE TERRACE	SF	72	334	334	334	726	44	44	44	46
371+50	23308 63RD AVE W, MOUNTLAKE TERRACE	SF	72	663	677	677	309	40	40	40	50
372+75	6002 233RD PL SW, MOUNTLAKE TERRACE	SF	72	164	135	135	502	46	47	47	44
373+00	6004 233RD PL SW, MOUNTLAKE TERRACE	SF	72	146	110	110	364	47	48	48	45
373+75	6005 233RD PL SW, MOUNTLAKE TERRACE	SF	72	62	98	98	320	55	49	49	46
374+25	23306 63RD AVE W, MOUNTLAKE TERRACE	SF	72	630	665	665	311	40	40	40	46
374+50	6001 233RD PL SW, MOUNTLAKE TERRACE	SF	72	242	194	194	501	44	45	45	44
375+00	6002 232ND PL SW, MOUNTLAKE TERRACE	SF	72	277	225	225	501	47	45	45	44
375+50	6004 232ND PL SW, MOUNTLAKE TERRACE	SF	72	164	113	113	376	49	48	48	45
375+75	6006 232ND PL SW, MOUNTLAKE TERRACE	SF	72	113	64	64	291	50	55	55	46
375+75	6003 233RD PL SW, MOUNTLAKE TERRACE	SF	72	113	64	64	320	50	55	55	46
376+00	6001 232ND PL SW, MOUNTLAKE TERRACE	SF	72	339	293	293	501	47	47	47	44

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
376+50	23304 63RD AVE W, MOUNTLAKE TERRACE	SF	72	600	643	643	313	45	44	44	46
377+00	6005 232ND PL SW, MOUNTLAKE TERRACE	SF	72	148	114	114	271	49	50	50	46
377+25	6004 232ND ST SW, MOUNTLAKE TERRACE	SF	72	313	282	282	427	47	47	47	45
377+25	23302 63RD AVE W, MOUNTLAKE TERRACE	SF	72	588	625	625	314	45	44	44	46
377+75	6006 232ND ST SW, MOUNTLAKE TERRACE	SF	72	247	222	222	355	48	48	48	45
377+75	6003 232ND PL SW, MOUNTLAKE TERRACE	SF	72	266	239	239	376	48	48	48	45
378+00	23300 63RD AVE W, MOUNTLAKE TERRACE	SF	72	576	602	602	338	45	45	45	46
378+00	6102 232ND ST SW, MOUNTLAKE TERRACE	SF	72	170	151	151	271	49	49	49	46
378+25	6003 232ND ST SW, MOUNTLAKE TERRACE	SF	72	427	418	418	485	46	46	46	44
378+75	6007 232ND ST SW, MOUNTLAKE TERRACE	SF	72	337	340	340	390	47	47	47	45
378+75	23108 60TH AVE W, MOUNTLAKE TERRACE	SF	72	449	459	459	485	46	46	46	44
379+00	23212 63RD AVE W, MOUNTLAKE TERRACE	SF	72	566	580	580	361	45	45	45	45
379+25	23209 63RD AVE W, MOUNTLAKE TERRACE	SF	72	407	412	412	266	46	46	46	46
379+25	23109 61ST AVE W, MOUNTLAKE TERRACE	SF	72	358	381	381	390	47	46	46	45
379+50	23106 60TH AVE W, MOUNTLAKE TERRACE	SF	72	470	510	510	485	46	45	45	48

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
379+50	23112 61ST AVE W, MOUNTLAKE TERRACE	SF	72	158	175	175	210	49	49	49	47
380+00	23207 63RD AVE W, MOUNTLAKE TERRACE	SF	72	392	380	380	261	46	46	46	46
380+00	23105 61ST AVE W, MOUNTLAKE TERRACE	SF	72	377	432	432	390	47	46	46	49
380+25	23100 60TH AVE W, MOUNTLAKE TERRACE	SF	72	482	559	559	485	46	45	45	46
380+25	23110 61ST AVE W, MOUNTLAKE TERRACE	SF	72	180	224	224	210	49	48	48	47
380+75	23205 63RD AVE W, MOUNTLAKE TERRACE	SF	72	390	359	359	281	46	47	47	46
381+00	23101 61ST AVE W, MOUNTLAKE TERRACE	SF	72	388	480	480	390	46	46	46	46
381+50	23203 63RD AVE W, MOUNTLAKE TERRACE	SF	72	379	324	324	302	46	47	47	46
381+75	23117 63RD AVE, MOUNTLAKE TERRACE	SF	72	239	167	167	202	48	49	49	47
381+75	23106 61ST AVE W, MOUNTLAKE TERRACE	SF	72	195	268	268	210	48	48	48	52
382+50	23102 61ST AVE W, MOUNTLAKE TERRACE	SF	72	205	306	306	210	48	47	47	52
383+00	23115 63RD AVE W, MOUNTLAKE TERRACE	SF	72	270	160	160	255	48	49	49	46
383+25	23112 63RD AVE W, MOUNTLAKE TERRACE	SF	72	530	417	417	508	45	46	46	44
383+25	23113 63RD AVE W, MOUNTLAKE TERRACE	SF	72	256	105	105	256	48	50	50	48
383+25	23109 63RD AVE W, MOUNTLAKE TERRACE	SF	72	442	285	285	442	46	50	50	46

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
383+25	23014 63RD PL W, MOUNTLAKE TERRACE	SF	72	256	105	105	256	48	50	50	48
383+50	23010 61ST AVE W, MOUNTLAKE TERRACE	SF	72	211	339	339	211	48	47	47	48
383+75	23107 63RD AVE W, MOUNTLAKE TERRACE	SF	72	506	335	335	506	45	49	49	45
384+00	23111 63RD AVE W, MOUNTLAKE TERRACE	SF	72	368	230	230	362	47	48	48	45
384+25	23105 63RD AVE W, MOUNTLAKE TERRACE	SF	72	571	387	387	571	45	49	49	45
384+25	23103 63RD AVE W, MOUNTLAKE TERRACE	SF	72	571	387	387	571	45	49	49	45
384+25	23101 63RD AVE W, MOUNTLAKE TERRACE	SF	72	571	386	386	571	45	49	49	45
384+25	23012 63RD PL W, MOUNTLAKE TERRACE	SF	72	427	242	242	427	46	50	50	46
384+25	23015 63RD PL W, MOUNTLAKE TERRACE	SF	72	253	104	104	253	48	57	57	48
384+75	23010 63RD AVE W, MOUNTLAKE TERRACE	SF	72	459	262	262	459	46	50	50	46
385+00	23009 61ST AVE W, MOUNTLAKE TERRACE	SF	72	392	523	523	392	46	45	45	46
385+00	23008 60TH AVE W, MOUNTLAKE TERRACE	SF	72	487	606	606	487	45	45	45	45
385+25	23008 63RD AVE W, MOUNTLAKE TERRACE	SF	72	474	271	271	474	46	50	50	46
385+25	23013 63RD PL W, MOUNTLAKE TERRACE	SF	72	254	104	104	254	48	57	57	48
385+50	23008 61ST AVE W, MOUNTLAKE TERRACE	SF	72	211	369	369	211	48	47	47	48

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
386+00	23011 63RD PL W, MOUNTLAKE TERRACE	SF	72	255	149	149	255	48	53	53	48
386+00	23007 61ST AVE W, MOUNTLAKE TERRACE	SF	72	391	561	561	391	46	45	45	46
386+00	23006 60TH AVE W, MOUNTLAKE TERRACE	SF	72	486	647	647	486	45	44	44	45
386+25	23009 63RD AVE W, MOUNTLAKE TERRACE	SF	72	255	89	89	255	48	59	59	48
386+50	23004 63RD AVE W, MOUNTLAKE TERRACE	SF	72	510	288	288	510	45	50	50	45
386+75	6008 230TH ST SW, MOUNTLAKE TERRACE	SF	72	390	590	590	390	46	47	47	46
386+75	6004 230TH ST SW, MOUNTLAKE TERRACE	SF	72	485	680	680	485	45	47	47	45
387+00	23007 63RD AVE W, MOUNTLAKE TERRACE	SF	72	256	81	81	256	48	59	59	48
387+25	23002 63RD AVE W, MOUNTLAKE TERRACE	SF	72	445	218	218	445	46	51	51	46
387+50	6304 230TH ST SW, MOUNTLAKE TERRACE	SF	72	514	285	285	514	48	50	50	48
387+75	6302 230TH ST SW, MOUNTLAKE TERRACE	SF	72	454	225	225	454	48	51	51	48
388+00	23005 63RD AVE W, MOUNTLAKE TERRACE	SF	72	257	79	79	257	51	59	59	51
388+00	6007 230TH ST SW, MOUNTLAKE TERRACE	SF	72	389	616	616	389	49	47	47	49
388+75	23003 63RD AVE W, MOUNTLAKE TERRACE	SF	72	257	92	92	257	51	58	58	51
389+00	22909 61ST AVE W, MOUNTLAKE TERRACE	SF	72	388	613	613	388	49	47	47	49

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
389+00	6303 230TH ST SW, MOUNTLAKE TERRACE	SF	72	551	324	324	551	48	50	50	48
389+25	23001 63RD AVE W, MOUNTLAKE TERRACE	SF	72	258	113	113	258	51	56	56	51
389+75	22905 61ST AVE W, MOUNTLAKE TERRACE	SF	72	387	601	601	387	49	47	47	49
389+75	6301 230TH ST SW, MOUNTLAKE TERRACE	SF	72	490	268	268	490	48	50	50	48
390+00	22807 64TH PL W, MOUNTLAKE TERRACE	SF	72	643	423	423	643	47	49	49	47
390+25	22909 63RD AVE W, MOUNTLAKE TERRACE	SF	72	259	101	101	259	51	58	58	51
390+25	22906 63RD AVE W, MOUNTLAKE TERRACE	SF	72	500	283	283	500	48	50	50	48
390+75	22901 61ST AVE W, MOUNTLAKE TERRACE	SF	72	386	587	587	386	49	47	47	49
390+75	22904 63RD AVE W, MOUNTLAKE TERRACE	SF	72	515	307	307	515	48	50	50	48
390+75	22805 64TH PL W, MOUNTLAKE TERRACE	SF	72	646	435	435	646	47	49	49	47
391+25	22905 63RD AVE W, MOUNTLAKE TERRACE	SF	72	261	152	152	261	51	53	53	51
391+50	22902 63RD AVE W, MOUNTLAKE TERRACE	SF	72	505	309	309	505	48	50	50	48
391+75	22809 61ST AVE W, MOUNTLAKE TERRACE	SF	72	384	574	574	384	49	47	47	49
391+75	22803 64TH PL W, MOUNTLAKE TERRACE	SF	72	650	453	453	650	47	48	48	47
392+00	22903 63RD AVE W, MOUNTLAKE TERRACE	SF	72	323	132	132	323	50	55	55	50

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
392+25	22901 63RD AVE W, MOUNTLAKE TERRACE	SF	72	408	220	220	408	49	52	52	49
392+25	22801 64TH PL W, MOUNTLAKE TERRACE	SF	72	655	466	466	655	47	48	48	47
392+50	22807 61ST AVE W, MOUNTLAKE TERRACE	SF	72	380	560	560	380	49	47	47	49
393+50	22803 61ST AVE W, MOUNTLAKE TERRACE	SF	72	375	547	547	375	49	48	48	49
394+25	6304 227TH ST SW, MOUNTLAKE TERRACE	SF	72	494	326	326	494	48	50	50	48
394+25	6101 227TH ST SW, MOUNTLAKE TERRACE	SF	72	145	DISP	DISP	145	53	---	---	53
394+75	6402 227TH ST SW, MOUNTLAKE TERRACE	SF	72	623	458	458	623	47	48	48	47
395+00	22707 61ST AVE W, MOUNTLAKE TERRACE	SF	72	365	526	526	365	49	48	48	49
395+75	22705 61ST AVE W, MOUNTLAKE TERRACE	SF	72	358	514	514	358	50	48	48	50
396+25	6303 227TH ST SW, MOUNTLAKE TERRACE	SF	72	634	480	480	634	47	48	48	47
396+50	22703 61ST AVE W, MOUNTLAKE TERRACE	SF	72	349	502	502	349	50	48	48	50
396+50	6103 227TH ST SW, MOUNTLAKE TERRACE	SF	72	169	49	49	169	53	70	70	53
396+50	6301 227TH ST SW, MOUNTLAKE TERRACE	SF	72	536	382	382	536	48	49	49	48
396+50	22605 63RD PL W, MOUNTLAKE TERRACE	SF	72	455	302	302	455	48	50	50	48
396+75	6201 227TH ST SW, MOUNTLAKE TERRACE	SF	72	197	110	110	197	52	58	58	52

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
396+75	22611 62ND AVE W, MOUNTLAKE TERRACE	SF	72	197	113	113	197	52	57	57	52
397+25	22701 61ST AVE W, MOUNTLAKE TERRACE	SF	72	340	491	491	340	50	48	48	50
397+75	22605 62ND AVE W, MOUNTLAKE TERRACE	SF	72	261	116	116	261	51	57	57	51
398+00	22610 62ND AVE W, MOUNTLAKE TERRACE	SF	72	346	197	197	346	50	52	52	50
398+25	22609 61ST AVE W, MOUNTLAKE TERRACE	SF	72	330	479	479	330	50	48	48	50
398+50	22603 63RD PL W, MOUNTLAKE TERRACE	SF	72	483	334	334	483	48	50	50	48
398+50	22608 62ND AVE W, MOUNTLAKE TERRACE	SF	72	374	225	225	374	49	52	52	49
398+75	22606 62ND AVE W, MOUNTLAKE TERRACE	SF	72	376	227	227	376	49	52	52	49
399+00	22607 61ST AVE W, MOUNTLAKE TERRACE	SF	72	318	467	467	318	50	48	48	50
399+25	22601 63RD PL W, MOUNTLAKE TERRACE	SF	72	494	344	344	494	48	50	50	48
399+25	22604 62ND AVE W, MOUNTLAKE TERRACE	SF	72	387	237	237	387	49	51	51	49
399+50	22603 62ND AVE W, MOUNTLAKE TERRACE	SF	72	275	125	125	275	51	56	56	51
399+75	22605 61ST AVE W, MOUNTLAKE TERRACE	SF	72	306	456	456	306	50	48	48	50
399+75	6204 226TH ST SW, MOUNTLAKE TERRACE	SF	72	505	355	355	505	48	50	50	48
400+00	6202 226TH ST SW, MOUNTLAKE TERRACE	SF	72	398	247	247	398	49	51	51	49

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
400+50	22603 61ST AVE W, MOUNTLAKE TERRACE	SF	72	292	444	444	292	51	48	48	51
400+75	6004 226TH ST SW, MOUNTLAKE TERRACE	SF	72	291	443	443	291	51	48	48	51
400+75	22601 62ND AVE W, MOUNTLAKE TERRACE	SF	72	285	133	133	285	51	55	55	51
401+25	22505 62ND AVE W, MOUNTLAKE TERRACE	SF	72	289	135	135	289	51	54	54	51
401+25	6201 226TH ST SW, MOUNTLAKE TERRACE	SF	72	505	351	351	505	48	50	50	48
401+50	22504 62ND PL W, MOUNTLAKE TERRACE	SF	72	434	280	280	434	49	51	51	49
402+25	6202 225TH PL SW, MOUNTLAKE TERRACE	SF	72	524	368	368	524	48	49	49	48
402+75	22503 62ND AVE W, MOUNTLAKE TERRACE	SF	72	287	130	130	287	51	55	55	51
402+75	6005 226TH ST SW, MOUNTLAKE TERRACE	SF	72	233	387	387	233	52	49	49	52
403+25	22502 62ND AVE W, MOUNTLAKE TERRACE	SF	72	433	275	275	433	49	51	51	49
403+50	22501 62ND AVE W, MOUNTLAKE TERRACE	SF	72	275	116	116	275	51	57	57	51
403+75	6201 225TH PL SW, MOUNTLAKE TERRACE	SF	72	479	320	320	479	48	50	50	48
404+00	22406 63RD AVE W, MOUNTLAKE TERRACE	SF	72	405	245	245	405	49	51	51	49
404+25	22407 62ND AVE W, MOUNTLAKE TERRACE	SF	72	262	114	114	262	51	57	57	51
404+25	6006 225TH ST SW, MOUNTLAKE TERRACE	SF	72	229	389	389	229	52	49	49	52

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
404+75	6204 224TH ST SW, MOUNTLAKE TERRACE	SF	72	497	335	335	497	48	50	50	48
405+00	22405 62ND AVE W, MOUNTLAKE TERRACE	SF	72	247	109	109	247	51	58	58	51
405+00	6202 224TH ST SW, MOUNTLAKE TERRACE	SF	72	421	259	259	421	49	51	51	49
405+75	22403 62ND AVE W, MOUNTLAKE TERRACE	SF	72	237	105	105	237	51	58	58	51
406+00	6003 225TH ST SW, MOUNTLAKE TERRACE	SF	72	217	382	382	217	52	49	49	52
406+00	22309 62ND AVE W, MOUNTLAKE TERRACE	SF	72	229	136	136	229	52	54	54	52
406+50	22307 62ND AVE W, MOUNTLAKE TERRACE	SF	72	220	94	94	220	52	58	58	52
406+75	6201 224TH ST SW, MOUNTLAKE TERRACE	SF	72	422	256	256	422	49	50	50	49
407+00	6004 224TH ST SW, MOUNTLAKE TERRACE	SF	72	214	382	382	214	52	49	49	52
407+50	22302 62ND AVE W, MOUNTLAKE TERRACE	SF	72	349	179	179	349	50	51	51	50
407+50	22305 63RD AVE W, MOUNTLAKE TERRACE	SF	72	205	43	43	205	52	67	67	52
408+50	6202 223RD PL SW, MOUNTLAKE TERRACE	SF	72	308	191	191	308	50	51	51	50
408+75	6003 224TH ST SW, MOUNTLAKE TERRACE	SF	72	196	366	325	196	52	49	50	52
408+75	6204 223RD PL SW, MOUNTLAKE TERRACE	SF	72	413	316	375	413	49	50	49	49
409+25	6201 223RD PL SW, MOUNTLAKE TERRACE	SF	72	393	276	193	393	49	51	52	49

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
409+50	22306 60TH AVE W, MOUNTLAKE TERRACE	SF	72	191	350	325	191	52	49	50	52
409+50	22206 62ND AVE W, MOUNTLAKE TERRACE	SF	72	309	206	115	309	50	51	56	50
410+00	22304 60TH AVE W, MOUNTLAKE TERRACE	SF	72	187	350	325	187	52	49	50	52
410+25	22204 62ND AVE W, MOUNTLAKE TERRACE	SF	72	347	276	134	347	50	51	54	50
410+25	6208 222ND LN SW, MOUNTLAKE TERRACE	SF	72	515	400	445	515	48	49	45	48
410+50	22209 63RD AVE W, MOUNTLAKE TERRACE	SF	72	210	DISP	DISP	210	52	---	---	52
410+75	22302 60TH AVE W, MOUNTLAKE TERRACE	SF	72	182	350	325	182	52	49	50	52
410+75	6207 222ND LN SW, MOUNTLAKE TERRACE	SF	72	516	406	439	516	48	49	45	48
411+00	22202 62ND AVE W, MOUNTLAKE TERRACE	SF	72	385	276	156	385	49	51	49	49
411+25	22210 60TH AVE W, MOUNTLAKE TERRACE	SF	72	177	350	325	177	53	50	50	53
411+25	22207 62ND AVE W, MOUNTLAKE TERRACE	SF	72	207	DISP	DISP	207	52	---	---	52
411+50	22205 62ND AVE W, MOUNTLAKE TERRACE	SF	72	206	DISP	DISP	206	52	---	---	52
411+50	6204 222ND ST SW, MOUNTLAKE TERRACE	SF	72	466	400	221	466	48	49	47	48
412+00	22208 60TH AVE W, MOUNTLAKE TERRACE	SF	72	175	350	325	175	53	50	50	53
412+25	22203 62ND AVE W, MOUNTLAKE TERRACE	SF	72	204	DISP	DISP	204	52	---	---	52

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
412+50	6202 222ND ST SW, MOUNTLAKE TERRACE	SF	72	380	266	119	380	49	51	53	49
412+75	22206 60TH AVE W, MOUNTLAKE TERRACE	SF	72	173	350	325	173	53	50	46	53
413+00	6303 222ND ST SW, MOUNTLAKE TERRACE	SF	72	690	440	417	690	47	46	43	47
413+25	22204 60TH AVE W, MOUNTLAKE TERRACE	SF	72	171	350	325	171	53	50	46	53
413+25	22201 62ND AVE W, MOUNTLAKE TERRACE	SF	72	202	DISP	DISP	202	52	---	---	52
414+00	22202 60TH AVE W, MOUNTLAKE TERRACE	SF	72	169	350	325	169	53	50	46	53
414+00	6205 222ND ST SW, MOUNTLAKE TERRACE	SC	75	199	176	199	199	49	50	44	49
414+25	6302 221ST PL SW, MOUNTLAKE TERRACE	SF	72	710	440	417	710	46	46	43	46
415+00	6303 221ST PL SW, MOUNTLAKE TERRACE	SF	72	723	440	417	723	46	46	43	46
415+25	22111 60TH AVE W, MOUNTLAKE TERRACE	SF	72	282	400	375	282	51	49	45	51
415+75	22109 60TH AVE W, MOUNTLAKE TERRACE	SF	72	272	400	375	272	51	46	43	51
416+25	22107 60TH AVE W, MOUNTLAKE TERRACE	SF	72	261	400	375	261	51	46	43	51
416+25	6305 221ST PL SW, MOUNTLAKE TERRACE	SF	72	747	440	417	747	46	46	43	46
416+50	6302 220TH PL SW, MOUNTLAKE TERRACE	SF	72	751	440	417	751	46	46	43	46
416+50	6304 220TH PL SW, MOUNTLAKE TERRACE	SF	72	750	440	417	750	46	46	43	46

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
417+00	22105 60TH AVE W, MOUNTLAKE TERRACE	SF	72	250	400	375	250	51	46	43	51
417+25	22103 60TH AVE W, MOUNTLAKE TERRACE	SF	72	244	400	375	244	51	46	43	51
417+50	5904 221ST ST SW, MOUNTLAKE TERRACE	SF	72	306	400	375	306	50	46	43	50
417+75	6303 220TH PL SW, MOUNTLAKE TERRACE	SF	72	771	440	417	771	46	46	43	46
419+00	5905 221ST ST SW, MOUNTLAKE TERRACE	SF	72	393	400	375	393	49	46	43	49
419+00	6305 220TH PL SW, MOUNTLAKE TERRACE	SF	72	793	440	417	793	46	46	43	46
420+25	5903 221ST ST SW, MOUNTLAKE TERRACE	SF	72	415	400	375	415	49	46	43	49
421+00	5809 221ST ST SW, MOUNTLAKE TERRACE	SF	72	459	400	375	459	48	46	43	48
423+00	5902 219TH ST SW, MOUNTLAKE TERRACE	SF	72	340	400	375	340	50	46	47	50
424+75	5905 219TH ST SW, MOUNTLAKE TERRACE	SF	72	256	587	375	256	51	45	46	51
425+75	5810 218TH PL SW, MOUNTLAKE TERRACE	SF	72	236	400	375	236	51	46	46	51
426+50	5811 218TH PL SW, MOUNTLAKE TERRACE	SF	72	215	400	375	215	52	46	46	52
427+50	5809 218TH PL SW, MOUNTLAKE TERRACE	SF	72	222	400	375	222	52	46	46	52
428+25	21726 58TH AVE W, MOUNTLAKE TERRACE	SF	72	268	487	487	268	51	45	45	51
429+50	21712 58TH AVE W, MOUNTLAKE TERRACE	SF	72	276	468	470	276	51	46	46	51

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
430+00	6102 ST ALBION WAY, MOUNTLAKE TERRACE	MF	72	244	96	96	244	48	48	48	48
434+75	5912 214TH ST SW, MOUNTLAKE TERRACE	SF	72	369	215	215	369	49	52	52	49
434+75	21620 58TH AVE W, MOUNTLAKE TERRACE	SF	72	258	417	417	258	51	49	49	51
435+25	5910 214TH ST SW, MOUNTLAKE TERRACE	SF	72	300	146	146	300	50	54	54	50
435+75	5908 214TH ST SW, MOUNTLAKE TERRACE	SF	72	242	133	133	242	51	55	55	51
435+75	21530 58TH AVE W, MOUNTLAKE TERRACE	SF	72	199	355	355	199	52	49	49	52
435+75	21616 58TH AVE W, MOUNTLAKE TERRACE	SF	72	199	356	356	199	52	49	49	52
436+00	5909 214TH ST SW, MOUNTLAKE TERRACE	SF	72	508	356	356	508	48	49	49	48
436+00	21503 60TH AVE W, MOUNTLAKE TERRACE	SF	72	167	136	136	167	53	54	54	53
436+50	5907 214TH ST SW, MOUNTLAKE TERRACE	SF	72	455	305	305	455	48	50	50	48
436+50	5904 214TH ST SW, MOUNTLAKE TERRACE	SF	72	167	57	57	167	53	64	64	53
436+50	5906 214TH ST SW, MOUNTLAKE TERRACE	SF	72	167	81	81	167	53	59	59	53
436+75	5905 214TH ST SW, MOUNTLAKE TERRACE	SF	72	404	254	254	404	49	50	50	49
437+50	5903 214TH ST SW, MOUNTLAKE TERRACE	SF	72	335	188	188	335	50	51	51	50
437+50	21331 60TH AVE W, MOUNTLAKE TERRACE	SF	72	485	337	337	485	48	49	49	48

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
438+25	5902 214TH ST SW, MOUNTLAKE TERRACE	SF	72	179	51	51	179	52	65	65	52
438+25	5901 214TH ST SW, MOUNTLAKE TERRACE	SF	72	332	186	186	332	50	51	51	50
438+50	5810 214TH ST SW, MOUNTLAKE TERRACE	SF	72	179	40	40	179	52	68	68	52
438+50	21304 59TH PL W, MOUNTLAKE TERRACE	SF	72	411	266	266	411	49	50	50	49
439+00	21305 59TH PL W, MOUNTLAKE TERRACE	SF	72	406	262	262	406	49	50	50	49
439+00	21528 58TH AVE W, MOUNTLAKE TERRACE	SF	72	193	340	340	193	52	49	49	52
439+25	21307 59TH PL W, MOUNTLAKE TERRACE	SF	72	331	188	188	331	50	51	51	50
439+50	5806 214TH ST SW, MOUNTLAKE TERRACE	SF	72	181	40	40	181	52	68	68	52
439+75	5709 215TH PL SW, MOUNTLAKE TERRACE	SF	72	230	375	375	230	52	49	49	52
440+00	5803 214TH ST SW, MOUNTLAKE TERRACE	SF	72	332	191	191	332	50	51	51	50
440+25	5804 214TH ST SW, MOUNTLAKE TERRACE	SF	72	185	60	60	185	52	63	63	52
440+75	5802 214TH ST SW, MOUNTLAKE TERRACE	SF	72	191	56	56	191	52	68	68	52
441+25	21501 58TH AVE W, MOUNTLAKE TERRACE	SF	72	212	353	353	212	52	50	50	52
441+75	5801 214TH ST SW, MOUNTLAKE TERRACE	SF	72	315	180	180	315	50	52	52	50
441+75	21318 58TH AVE W, MOUNTLAKE TERRACE	SF	72	336	200	200	336	50	52	52	50

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
442+00	21312 58TH AVE W, MOUNTLAKE TERRACE	SF	72	452	316	316	452	48	50	50	48
442+00	21316 58TH AVE W, MOUNTLAKE TERRACE	SF	72	371	235	235	371	49	51	51	49
443+25	5720 213TH ST SW, MOUNTLAKE TERRACE	SF	72	270	130	130	270	51	55	55	51
443+25	21227 58TH AVE W UNIT 1 THRU 5, MOUNTLAKE TERRACE	MF	72	459	319	319	459	48	50	50	48
443+75	21317 58TH AVE W, MOUNTLAKE TERRACE	SF	72	186	51	51	186	52	69	69	52
443+75	5723 213TH ST SW, MOUNTLAKE TERRACE	SF	72	418	277	277	418	49	51	51	49
444+00	5710 213TH ST SW, MOUNTLAKE TERRACE	SF	72	206	101	101	206	52	59	59	52
444+25	5721 213TH ST SW, MOUNTLAKE TERRACE	SF	72	478	338	338	478	48	50	50	48
444+75	5711 213TH ST SW, MOUNTLAKE TERRACE	SF	72	339	198	198	339	50	52	52	50
445+00	5709 213TH ST SW, MOUNTLAKE TERRACE	SF	72	394	254	254	394	49	51	51	49
445+25	5632 213TH ST SW, MOUNTLAKE TERRACE	SF	72	185	58	58	185	52	67	67	52
445+50	5627 213TH ST SW, MOUNTLAKE TERRACE	MF	72	268	127	127	268	51	55	55	51
445+50	21404 56TH AVE W, MOUNTLAKE TERRACE	SF	72	204	344	344	204	52	50	50	52
446+00	5623 213TH ST SW, MOUNTLAKE TERRACE	SF	72	345	204	204	345	50	52	52	50
446+25	5625 213TH ST SW, MOUNTLAKE TERRACE	SF	72	204	75	75	204	52	64	64	52

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
446+25	5506 214TH PL SW, MOUNTLAKE TERRACE	SF	72	265	406	406	265	51	49	49	51
446+50	5615 213TH ST SW, MOUNTLAKE TERRACE	SF	72	185	52	52	185	52	69	69	52
446+75	5619 213TH ST SW, MOUNTLAKE TERRACE	SF	72	281	140	140	281	51	54	54	51
447+00	5503 214TH PL SW, MOUNTLAKE TERRACE	SF	72	293	434	434	293	51	49	49	51
447+25	5604 212TH ST SW, MOUNTLAKE TERRACE	SF	72	189	69	69	189	52	65	65	52
447+50	5616 212TH ST SW, MOUNTLAKE TERRACE	SF	72	407	265	265	407	49	51	51	49
447+75	5505 214TH ST SW, MOUNTLAKE TERRACE	SF	72	254	395	395	254	51	49	49	51
447+75	5610 212TH ST SW, MOUNTLAKE TERRACE	SF	72	258	117	117	258	51	57	57	51
448+50	5580-5590(2)? 212TH ST SW, MOUNTLAKE TERRACE	SF	72	189	DISP	DISP	189	52	---	---	52
449+00	5602 212TH ST SW, MOUNTLAKE TERRACE	SF	72	241	145	145	241	51	53	53	51
449+75	5522 212TH ST SW, MOUNTLAKE TERRACE	SF	72	189	DISP	DISP	189	52	---	---	52
450+00	5580-5590(1)? 212TH ST SW, MOUNTLAKE TERRACE	SF	72	239	DISP	DISP	239	51	---	---	51
450+00	5509 214TH PL SW, MOUNTLAKE TERRACE	MF	72	167	309	309	167	50	47	47	50
450+25	5605 212TH ST SW, LYNNWOOD	SF	72	405	263	263	405	49	51	51	49
451+25	5525 212TH ST SW, LYNNWOOD	SF	72	329	187	187	329	50	52	52	50

Table D-2. Projected Vibration for Segment B Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)				Projected Maximum 1/3 OB Level (VdB)			
				B1	B2	B2A	B4	B1	B2	B2A	B4
456+25	5402 212TH ST SW, MOUNTLAKE TERRACE	MF	72	137	280	280	137	47	44	44	47

Bold text Bold numbers in cells indicate vibration impact (See main text for summary of number of impacts for each segment alternative)

SF Single-Family Residence

MF Multi-Family Residence

HT Hotel

CH Church

SC School

DISP Indicates properties that would be displaced by the project

Table D-3. Projected Vibration for Segment C Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				C1M	C2M	C3M	C1W	C2W	C3W	C1M	C2M	C3M	C1W	C2W	C3W
501+75	21031 54TH AVE W, LYNNWOOD	SF	72	179	179	179	47	47	45	49	49	52	59	59	59
502+50	20928 53RD AVE W, LYNNWOOD	SF	72	182	182	182	110	110	111	49	49	52	50	50	50
502+75	21019 54TH AVE W, LYNNWOOD	SF	72	213	213	214	69	69	69	48	48	52	55	55	55
503+25	21011 54TH AVE W, LYNNWOOD	SF	72	258	258	261	117	117	117	48	48	51	50	50	50
503+50	21007 54TH AVE W, LYNNWOOD	SF	72	301	301	308	163	163	163	47	47	50	49	49	49
504+00	20927 54TH AVE W, LYNNWOOD	SF	72	362	362	379	234	234	234	47	47	49	48	48	48
504+75	20932 53RD AVE W, LYNNWOOD	SF	72	154	154	182	39	39	43	49	49	52	60	60	60
505+00	20926 53RD AVE W, LYNNWOOD	SF	72	283	283	322	177	177	177	47	47	50	46	46	49
506+25	20922 53RD AVE W, LYNNWOOD	SF	72	295	295	353	207	207	208	47	47	50	45	45	48
506+50	20929 53RD AVE W, LYNNWOOD	SF	72	105	105	178	46	46	49	50	50	52	58	58	58
507+00	20914 53RD AVE W, LYNNWOOD	SF	72	324	324	400	252	252	255	47	47	49	44	44	48
507+00	20925 53RD AVE W, LYNNWOOD	SF	72	90	90	178	65	65	70	52	52	53	54	54	55
507+25	20923 53RD AVE W, LYNNWOOD	SF	72	117	117	227	63	63	81	49	49	48	55	55	53
507+75	20908 53RD AVE W, LYNNWOOD	SF	72	350	350	447	295	295	302	47	47	48	43	43	47
508+00	20915 53RD AVE W, LYNNWOOD	SF	72	141	141	274	99	99	128	49	49	47	49	49	50
508+50	20918 52ND AVE W, LYNNWOOD	MF	75	59	59	202	20	20	57	53	53	45	60	60	53

Table D-3. Projected Vibration for Segment C Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				C1M	C2M	C3M	C1W	C2W	C3W	C1M	C2M	C3M	C1W	C2W	C3W
508+50	20924 52ND AVE W, LYNNWOOD	SF	72	DISP	DISP	181	DISP	DISP	47	---	---	52	---	---	59
508+75	20911 53RD AVE W, LYNNWOOD	SF	72	163	163	321	131	131	175	49	49	47	47	47	49
508+75	20902 53RD AVE W, LYNNWOOD	SF	72	373	373	494	333	333	349	47	47	48	42	42	47
509+50	20901 53RD AVE W, LYNNWOOD	SF	72	182	182	368	159	159	222	49	49	47	46	46	48
509+50	20830 53RD AVE W, LYNNWOOD	SF	72	391	391	541	366	366	396	46	46	45	41	41	46
510+00	20909 52ND AVE W, LYNNWOOD	SF	72	33	33	157	41	41	42	62	62	49	59	59	60
510+25	20829 53RD AVE W, LYNNWOOD	SF	72	197	197	415	183	183	269	48	48	46	46	46	47
510+50	20828 53RD AVE W, LYNNWOOD	SF	72	409	409	599	398	398	454	46	46	45	40	40	46
510+50	20830 52ND AVE W, LYNNWOOD	CH	75	81	81	340	71	71	194	49	49	44	49	49	45
510+75	20825 53RD AVE W, LYNNWOOD	SF	72	209	209	464	202	202	318	48	48	46	45	45	47
511+50	20826 53RD AVE W, LYNNWOOD	SF	72	418	418	649	415	415	503	46	46	44	40	40	45
511+75	20818 52ND AVE W, LYNNWOOD	SF	72	96	96	436	94	94	290	51	51	46	50	50	47
511+75	20819 53RD AVE W, LYNNWOOD	SF	72	227	227	520	225	225	373	48	48	45	45	45	46
512+50	20813 53RD AVE W, LYNNWOOD	SF	72	222	222	563	222	222	416	48	48	45	48	48	46
512+50	20804 53RD AVE W, LYNNWOOD	SF	72	423	423	699	423	423	553	46	46	44	46	46	45
512+50	20812 52ND AVE W, LYNNWOOD	SF	72	86	86	481	86	86	334	53	53	46	53	53	47

Table D-3. Projected Vibration for Segment C Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				C1M	C2M	C3M	C1W	C2W	C3W	C1M	C2M	C3M	C1W	C2W	C3W
513+50	20806 52ND AVE W, LYNNWOOD	SF	72	87	87	527	87	87	380	52	52	45	52	52	46
513+75	20807 53RD AVE W, LYNNWOOD	SF	72	223	223	612	223	223	466	48	48	44	48	48	46
515+50	5211 208TH ST SW, LYNNWOOD	SF	72	107	107	649	107	107	503	51	51	44	51	51	45
515+75	20726 53RD AVE W, LYNNWOOD	SF	72	423	423	883	423	423	737	46	46	43	46	46	44
516+25	20718 53RD AVE W, LYNNWOOD	SF	72	423	423	936	423	423	789	46	46	42	46	46	43
516+50	20706 52ND AVE W, LYNNWOOD	SF	72	86	86	801	86	86	653	52	52	43	52	52	44
517+00	20712 53RD AVE W, LYNNWOOD	SF	72	422	422	985	422	422	839	46	46	42	46	46	43
517+50	20706 53RD AVE W, LYNNWOOD	SF	72	422	422	1035	422	422	888	46	46	42	46	46	43
518+25	20629 53RD AVE W, LYNNWOOD	SF	72	221	221	958	221	221	811	48	48	42	48	48	43
518+25	20628 52ND AVE W, LYNNWOOD	SF	72	86	86	887	86	86	739	52	52	43	52	52	44
518+25	20628 53RD AVE W, LYNNWOOD	SF	72	422	422	1085	422	422	938	46	46	41	46	46	42
518+75	20623 53RD AVE W, LYNNWOOD	SF	72	221	221	1005	221	221	858	48	48	42	48	48	43
518+75	20624 52ND AVE W, LYNNWOOD	SF	72	85	85	920	85	85	772	52	52	42	52	52	43
518+75	20618 53RD AVE W, LYNNWOOD	SF	72	422	422	1132	422	422	985	46	46	41	46	46	42
519+50	20609 53RD AVE W, LYNNWOOD	SF	72	221	221	1052	221	221	905	48	48	42	48	48	42
519+50	20618 52ND AVE W, LYNNWOOD	SF	72	85	85	967	85	85	819	52	52	42	52	52	43

Table D-3. Projected Vibration for Segment C Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				C1M	C2M	C3M	C1W	C2W	C3W	C1M	C2M	C3M	C1W	C2W	C3W
519+50	20612 53RD AVE W, LYNNWOOD	SF	72	421	421	1179	421	421	1032	46	46	41	46	46	42
520+25	5210 206TH ST SW, LYNNWOOD	SF	72	85	85	1030	85	85	883	52	52	42	52	52	43
520+50	5306 206TH ST SW, LYNNWOOD	SF	72	421	421	1226	421	421	1079	46	46	41	46	46	41
520+50	20601 53RD AVE W, LYNNWOOD	SF	72	221	221	1115	221	221	968	48	48	41	48	48	42
521+75	5303 206TH ST SW, LYNNWOOD	SF	72	421	421	1356	421	421	1209	46	46	40	46	46	41
522+00	20523 53RD AVE W, LYNNWOOD	SF	72	270	2410	1261	270	2410	1114	47	40	40	47	40	41
522+75	20510 53RD AVE W, LYNNWOOD	SF	72	421	2520	1440	421	2520	1292	46	41	39	46	41	40
522+75	20517 53RD AVE W, LYNNWOOD	SF	72	220	2339	1297	220	2339	1165	48	39	40	48	39	41
523+25	20511 53RD AVE W, LYNNWOOD	SF	72	220	2314	1320	220	2314	1212	48	38	40	48	38	41
523+25	20506 53RD AVE W, LYNNWOOD	SF	72	421	2497	1487	421	2497	1340	46	41	39	46	41	40
523+75	20504 52ND AVE W, LYNNWOOD	SF	72	84	2166	1217	84	2166	1173	52	37	41	52	37	41
524+00	20502 53RD AVE W, LYNNWOOD	SF	72	420	2475	1530	420	2475	1387	46	40	39	46	40	40
524+00	20505 53RD AVE W, LYNNWOOD	SF	72	220	2290	1343	220	2290	1259	48	38	40	48	38	40
524+50	20428 53RD AVE W, LYNNWOOD	SF	72	420	2453	1553	420	2453	1434	46	40	39	46	40	39
524+50	20429 53RD AVE W, LYNNWOOD	SF	72	220	2266	1366	220	2266	1307	48	38	40	48	38	40
524+75	20425 53RD AVE W, LYNNWOOD	SF	72	219	2253	1390	219	2253	1356	48	38	40	48	38	40

Table D-3. Projected Vibration for Segment C Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				C1M	C2M	C3M	C1W	C2W	C3W	C1M	C2M	C3M	C1W	C2W	C3W
525+00	20430 52ND AVE W, LYNNWOOD	SF	72	83	2117	1239	83	2117	1220	53	37	40	53	37	41
525+25	20424 53RD AVE W UNIT Q, LYNNWOOD	SF	72	420	2432	1577	420	2432	1483	46	40	39	46	40	39
525+75	20416 53RD AVE W, LYNNWOOD	SF	72	420	2413	1601	420	2413	1533	46	40	39	46	40	39
525+75	20419 53RD AVE W, LYNNWOOD	SF	72	229	2232	1423	229	2232	1412	48	37	39	48	37	40
525+75	20416 52ND AVE W, LYNNWOOD	SF	72	83	2095	1288	83	2095	1305	53	37	38	53	37	40
526+00	20412 53RD AVE W, LYNNWOOD	MF	72	420	2396	1625	420	2396	1582	46	39	38	46	39	39
526+00	20411 53RD AVE W, LYNNWOOD	SF	72	229	2213	1448	229	2213	1461	48	37	38	48	37	39
526+00	20410 52ND AVE W, LYNNWOOD	SF	72	83	2074	1313	83	2074	1333	53	37	38	53	37	40
526+25	20406 53RD AVE W, LYNNWOOD	SF	72	420	2375	1649	420	2375	1632	46	39	38	46	39	38
526+25	20403 53RD AVE W, LYNNWOOD	SF	72	229	2191	1474	229	2191	1493	48	39	38	48	39	39
526+25	20406 52ND AVE W, LYNNWOOD	SF	72	83	2056	1340	83	2056	1360	53	39	38	53	39	40
527+25	5309 204TH ST SW, LYNNWOOD	SF	72	418	2338	1694	418	2338	1713	46	39	38	46	39	38
527+50	5207 204TH ST SW, LYNNWOOD	SF	72	89	2011	1393	89	2011	1411	52	39	38	52	39	38
527+50	5215 204TH ST SW, LYNNWOOD	SF	72	169	2089	1464	169	2089	1483	49	39	38	49	39	38
528+00	20318 53RD AVE W, LYNNWOOD	SF	72	425	2332	1726	425	2332	1741	46	39	38	46	39	38
528+00	5225 204TH ST SW, LYNNWOOD	SF	72	256	2169	1563	256	2169	1578	48	39	38	48	39	38

Table D-3. Projected Vibration for Segment C Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				C1M	C2M	C3M	C1W	C2W	C3W	C1M	C2M	C3M	C1W	C2W	C3W
528+50	20316 52ND AVE W, LYNNWOOD	SF	72	103	1993	1444	103	1993	1460	50	39	38	50	39	38
528+50	20317 53RD AVE W, LYNNWOOD	SF	72	241	2125	1568	241	2125	1587	48	39	38	48	39	38
528+75	20304 53RD AVE W, LYNNWOOD	SF	72	421	2275	1760	421	2275	1777	46	39	38	46	39	38
528+75	20310 53RD AVE W, LYNNWOOD	SF	72	452	2324	1780	452	2324	1799	46	39	38	46	39	38
529+00	20306 52ND AVE W, LYNNWOOD	SF	72	116	1982	1481	116	1982	1490	49	39	38	49	39	38
529+00	20309 53RD AVE W, LYNNWOOD	SF	72	248	2106	1597	248	2106	1613	48	39	38	48	39	38
529+75	20302 52ND AVE W, LYNNWOOD	SF	72	133	1968	1519	133	1968	1526	49	39	38	49	39	38
530+00	20303 53RD AVE W, LYNNWOOD	SF	72	282	2101	1670	282	2101	1678	47	39	38	47	39	38
530+25	20218 52ND AVE W, LYNNWOOD	SF	72	154	1967	1553	154	1967	1564	49	39	38	49	39	38
530+50	20220 52ND AVE W, LYNNWOOD	SF	72	163	1957	1570	163	1957	1581	49	39	38	49	39	38
530+50	20210 52ND AVE W, LYNNWOOD	SF	72	160	1957	1564	160	1957	1575	49	39	38	49	39	38
530+50	20212 52ND AVE W, LYNNWOOD	SF	72	157	1966	1559	157	1966	1570	49	39	38	49	39	38
532+50	5214 201ST PL SW, LYNNWOOD	SF	72	358	2035	1808	358	2035	1813	47	39	38	47	39	38
532+75	5208 201ST PL SW, LYNNWOOD	SF	72	288	1955	1746	288	1955	1750	47	39	38	47	39	38
533+75	5217 201ST PL SW, LYNNWOOD	SF	72	459	2055	1933	459	2055	1935	46	39	38	46	39	38
534+25	5201 201ST PL SW, LYNNWOOD	SF	72	392	1971	1874	392	1971	1874	46	39	38	46	39	38

Table D-3. Projected Vibration for Segment C Without Mitigation

Civil Station	Address	Rec. Type	FTA Criteria (VdB)	Distance to Near Track (ft)						Projected Maximum 1/3 OB Level (VdB)					
				C1M	C2M	C3M	C1W	C2W	C3W	C1M	C2M	C3M	C1W	C2W	C3W
541+50	4920 200TH ST SW UNIT A101, LYNNWOOD	MF	72	DISP	733	1078	DISP	733	1071	---	41	38	---	41	38
541+75	20104 48TH AVE W UNIT A1, LYNNWOOD	MF	72	218	619	837	218	619	829	42	41	38	42	41	38
545+75	4807 200TH ST SW, LYNNWOOD	MF	72	61	995	1379	61	995	1372	53	39	38	53	39	38
547+50	4727 200TH ST SW, LYNNWOOD	MF	72	59	732	917	59	732	912	53	38	38	53	38	38
559+75	4220 200TH ST SW, LYNNWOOD	HT	72	472	299	106	472	299	60	43	44	49	43	44	51

Bold text Bold numbers in cells indicate vibration impact (See main text for summary of number of impacts for each segment alternative)

SF Single-Family Residence

MF Multi-Family Residence

HT Hotel

CH Church

SC School

DISP Indicates properties that would be displaced by the project

Table D-4. Projected Vibration for Segment A With Mitigation (Impacted Receivers Only)

Civil Station	Address	Receptor Type	FTA Criteria (VdB)	Mitigation Measure						Projected Maximum 1/3 OB Level (VdB)					
				A1	A3	A5	A7	A10	A11	A1	A3	A5	A7	A10	A11
026+00	136 NE 115TH ST, SEATTLE	SF	72	-	-	TDA	-	TDA	-	-	-	61	-	61	-
026+25	147 NE 116TH ST, SEATTLE	MF	72	-	-	TDA	-	TDA	-	-	-	62	-	62	-
33+00	11708 3RD AVE NE, SEATTLE	SF	72	-	-	TDA	-	TDA	-	-	-	58	-	58	-
038+25	327 NE 120TH ST, SEATTLE	SF	72	TDA	-	TDA	-	TDA	-	59	-	59	-	59	-
116+25	309 NE 149TH ST, SHORELINE	SF	72	-	-	TDA	TDA	-	-	-	-	59	59	-	-
155+50	121 NE 163RD ST, SHORELINE	SF	72	TDA	TDA	TDA	TDA	TDA	TDA	63	63	63	63	63	63
169+50	114 NE 167TH ST, SHORELINE	SF	72	TDA	TDA	TDA	TDA	TDA	TDA	62	62	62	62	62	62
199+75	17821 3RD AVE NE, SHORELINE	SF	72	TDA	-	TDA	-	TDA	-	60	-	60	-	60	-
203+25	331 NE 180TH ST, SHORELINE	SF	72	TDA	-	TDA	-	TDA	-	63	-	63	-	63	-
206+00	18019 5TH AVE NE, SHORELINE	SF	72	TDA	-	TDA	-	TDA	-	59	-	59	-	59	-
209+25	18031 5TH AVE NE, SHORELINE	SF	72	TDA	-	TDA	-	TDA	-	60	-	60	-	60	-
229+00	718 NE 189TH ST, SHORELINE	SF	72	-	-	TDA	-	TDA	-	-	-	69	-	69	-
230+25	18915 8TH AVE NE, SHORELINE	SF	72	-	-	TDA	-	TDA	-	-	-	68	-	68	-
231+00	18921 8TH AVE NE, SHORELINE	SF	72	TDA	-	-	-	-	-	64	-	-	-	-	-

SF Single-Family Residence

MF Multi-Family Residence

TDA Tire-Derived Aggregate Track Underlayment

ATTACHMENT E

Vibration Propagation Data

ATTACHMENT E

Vibration Propagation Data

The pages within this Attachment contain tables of the regression coefficients for each 1/3-octave band as calculated from the transfer mobility data measured at each vibration propagation test site. Plots of the Line Source Responses calculated at multiple distances for a two-car Sound Transit train (380 feet long) are also included.

Table E-1. SVT-01 Regression Coefficients from Measured Transfer Mobilities

Coeff.	1/3 Octave Band Center Frequency (Hz)																	
	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100	125	160
A₀	-23	9	75	110	75	198	161	175	234	98	115	82	-31	-44	27	119	61	-100
A₁	13	-24	-118	-187	-118	-313	-256	-283	-380	-152	-166	-73	127	179	47	-111	-31	249
A₂	-4	9	53	95	56	159	134	153	207	90	95	31	-77	-119	-47	35	-4	-155
A₃	0	-1	-8	-16	-9	-27	-23	-27	-38	-19	-20	-7	11	20	8	-6	1	27

$$PSR = A_0 + A_1 \cdot \log_{10}(D) + A_2 \cdot \log_{10}^2(D) + A_3 \cdot \log_{10}^3(D)$$

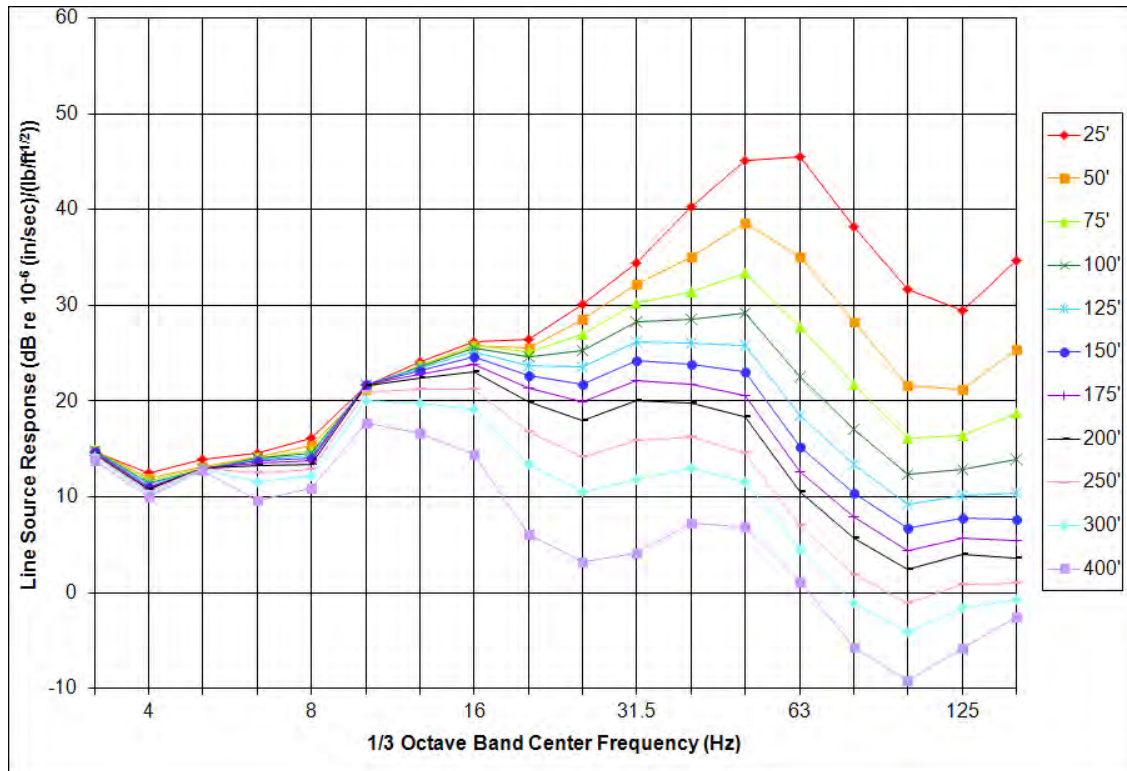


Exhibit E-1. Line Source Responses for Site SVT-01

Table E-2. SVT-02 Regression Coefficients from Measured Transfer Mobilities

Coeff.	1/3 Octave Band Center Frequency (Hz)																	
	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100	125	160
A₀	38	28	45	25	20	13	10	-2	-5	-11	-6	-82	-126	-134	-81	-91	-186	-216
A₁	-55	-36	-74	-37	-25	-14	-12	12	16	24	4	160	257	276	163	183	389	452
A₂	12	-1	26	6	-2	-5	-1	-14	-11	-12	14	-76	-140	-153	-84	-99	-232	-271
A₃	0	2	-3	0	2	2	1	2	1	1	-7	9	21	24	11	14	40	47

$$PSR = A_0 + A_1 \cdot \log_{10}(D) + A_2 \cdot \log_{10}^2(D) + A_3 \cdot \log_{10}^3(D)$$

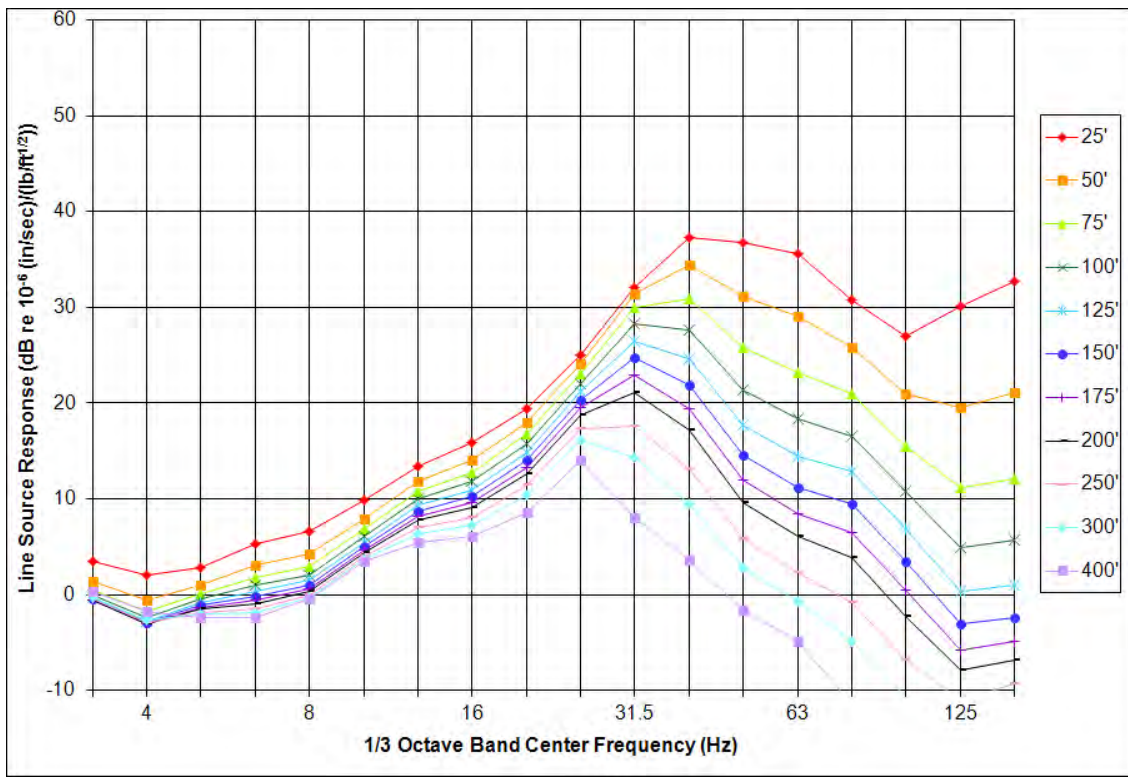


Exhibit E-2. Line Source Responses for Site SVT-02

Table E-3. SVT-03 Regression Coefficients from Measured Transfer Mobilities

Coeff.	1/3 Octave Band Center Frequency (Hz)																	
	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100	125	160
A ₀	-30	10	-5	-25	-23	-55	-17	21	48	6	-74	-236	-177	-78	-6	25	-18	22
A ₁	37	-16	22	33	32	88	26	-34	-77	-9	124	412	329	194	106	62	116	78
A ₂	-21	1	-24	-18	-20	-49	-17	15	40	10	-53	-211	-170	-111	-83	-66	-91	-85
A ₃	3	0	5	3	3	8	3	-3	-8	-4	5	32	25	17	14	13	17	18

PSR = A₀ + A₁•log₁₀(D) + A₂•log₁₀²(D) + A₃•log₁₀³(D)

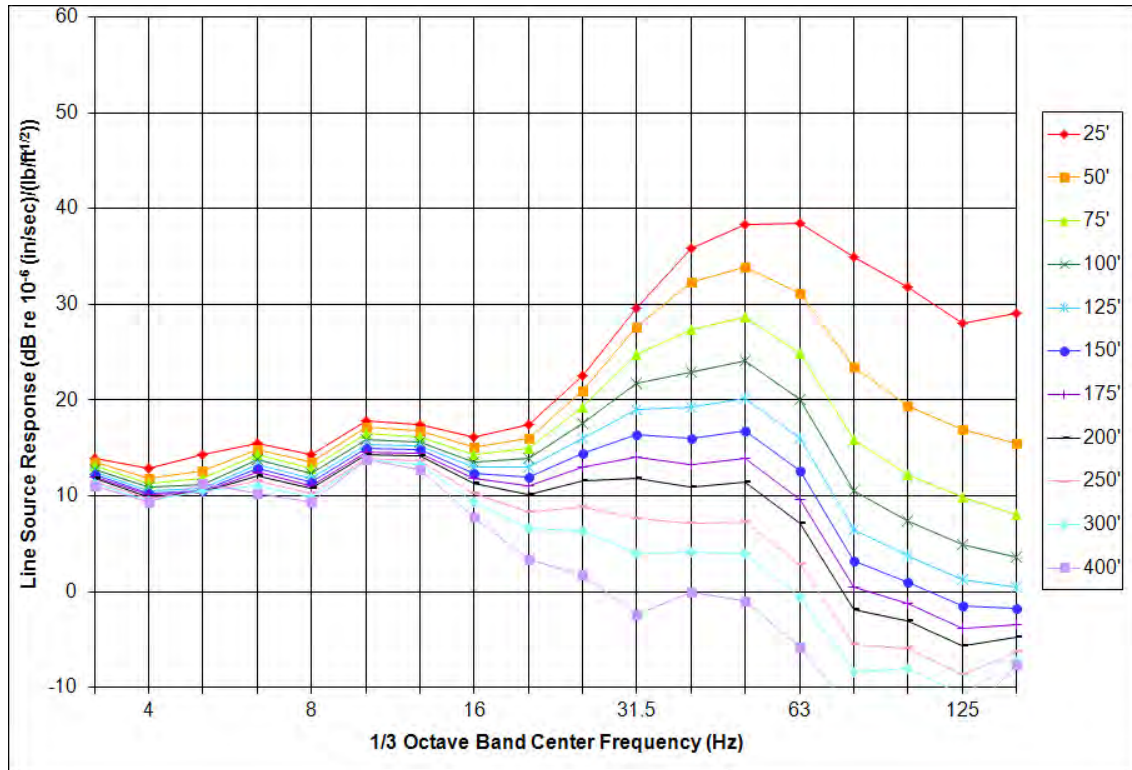


Exhibit E-3. Line Source Responses for Site SVT-03

Table E-4. SVT-04 Regression Coefficients from Measured Transfer Mobilities

Coeff.	1/3 Octave Band Center Frequency (Hz)																	
	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100	125	160
A₀	105	-31	87	2	-37	42	77	40	126	146	194	213	124	31	-69	-142	-232	-176
A₁	-184	50	-131	11	66	-61	-116	-54	-188	-217	-295	-309	-156	33	202	297	441	379
A₂	92	-36	55	-23	-44	25	54	22	91	108	154	159	80	-34	-125	-166	-241	-222
A₃	-15	7	-8	6	8	-4	-9	-4	-16	-19	-28	-29	-16	5	21	26	39	38

$$PSR = A_0 + A_1 \cdot \log_{10}(D) + A_2 \cdot \log_{10}^2(D) + A_3 \cdot \log_{10}^3(D)$$

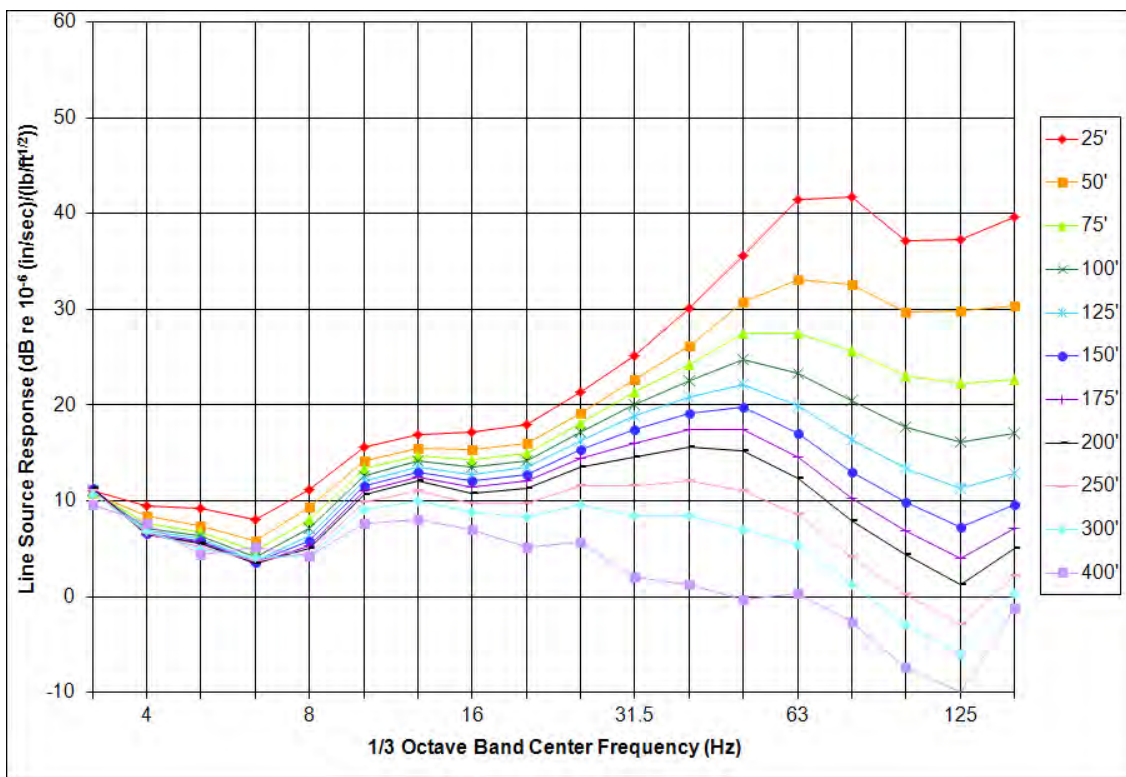


Exhibit E-4. Line Source Responses for Site SVT-04

Table E-5. SVT-05 Regression Coefficients from Measured Transfer Mobilities

Coeff.	1/3 Octave Band Center Frequency (Hz)																	
	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100	125	160
A₀	-124	69	-37	6	17	83	77	125	59	-125	-283	-263	-191	-96	111	95	75	116
A₁	189	-109	92	-6	-11	-112	-76	-153	-52	251	534	520	414	232	-118	-92	-91	-170
A₂	-99	48	-68	-3	-3	51	26	74	36	-117	-279	-288	-248	-144	41	21	29	77
A₃	16	-7	14	1	1	-8	-3	-13	-10	14	43	47	44	25	-7	-2	-4	-13

$$PSR = A_0 + A_1 \cdot \log_{10}(D) + A_2 \cdot \log_{10}^2(D) + A_3 \cdot \log_{10}^3(D)$$

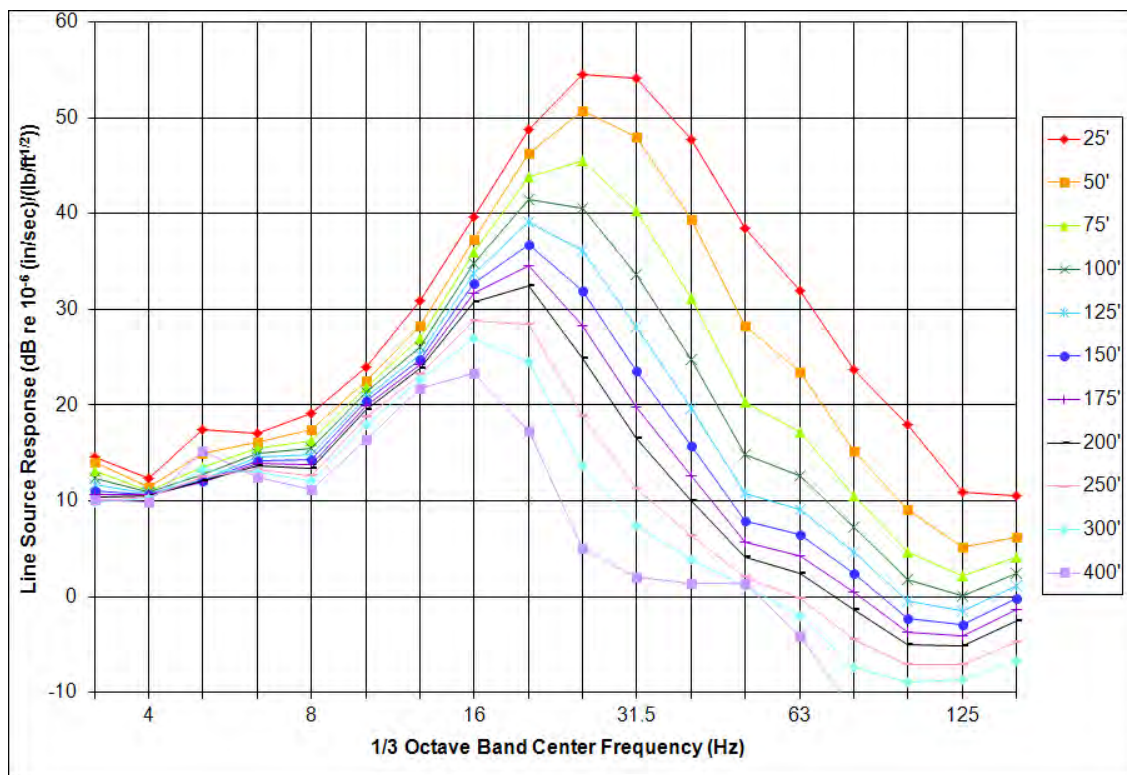


Exhibit E-5. Line Source Responses for Site SVT-05

Table E-6. SVT-06 Regression Coefficients from Measured Transfer Mobilities

Coeff.	1/3 Octave Band Center Frequency (Hz)																	
	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100	125	160
A₀	39	4	74	45	81	103	133	158	136	59	147	130	88	85	121	199	222	90
A₁	-70	-5	-114	-57	-109	-146	-193	-235	-202	-63	-208	-164	-83	-72	-122	-272	-323	-104
A₂	29	-6	51	17	43	65	93	123	112	36	117	90	40	31	50	136	171	55
A₃	-4	2	-8	-2	-6	-10	-16	-22	-22	-9	-23	-19	-9	-7	-9	-25	-33	-13

$$PSR = A_0 + A_1 \cdot \log_{10}(D) + A_2 \cdot \log_{10}^2(D) + A_3 \cdot \log_{10}^3(D)$$

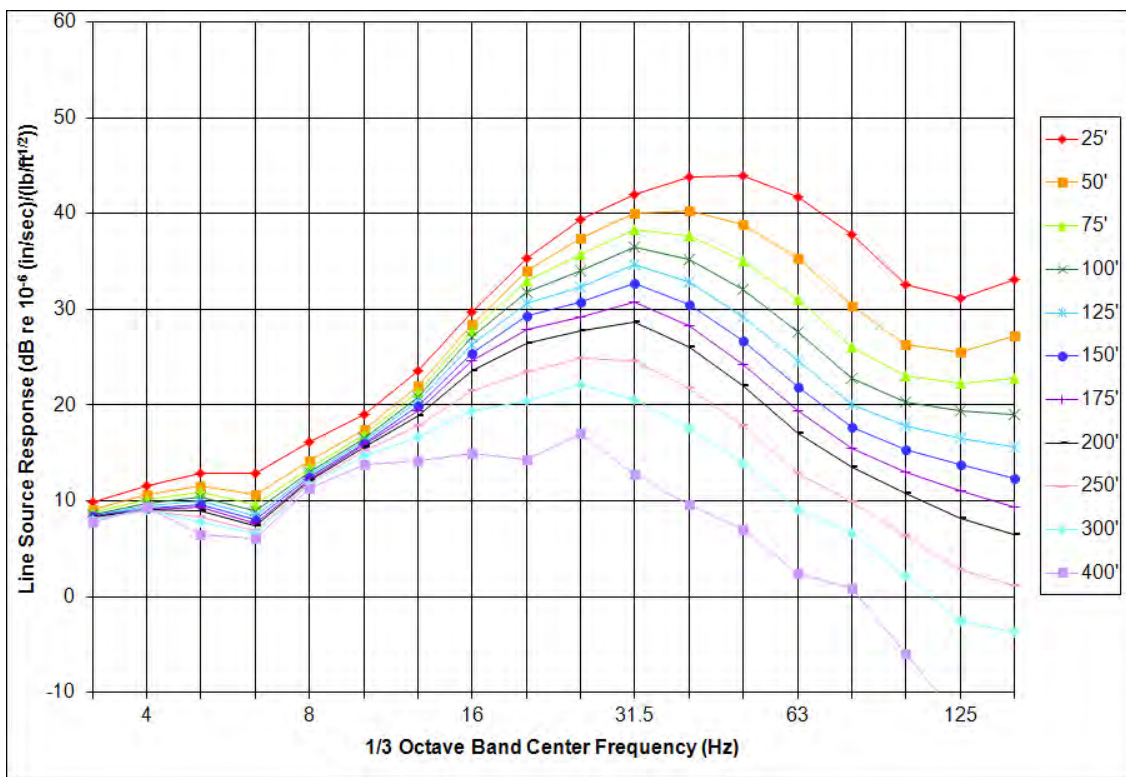


Exhibit E-6. Line Source Responses for Site SVT-06

Table E-7. SVT-07 Regression Coefficients from Measured Transfer Mobilities

Coeff.	1/3 Octave Band Center Frequency (Hz)																	
	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100	125	160
A₀	123	145	136	103	117	198	222	226	191	114	57	-73	26	62	145	127	138	165
A₁	-195	-237	-218	-151	-170	-302	-310	-248	-179	-95	-29	180	4	-45	-153	-121	-138	-168
A₂	87	116	104	65	77	148	140	87	51	31	12	-99	-7	7	45	23	29	37
A₃	-13	-19	-17	-10	-12	-24	-22	-10	-5	-5	-5	14	-1	-1	-5	0	0	0

$$PSR = A_0 + A_1 \cdot \log_{10}(D) + A_2 \cdot \log_{10}^2(D) + A_3 \cdot \log_{10}^3(D)$$

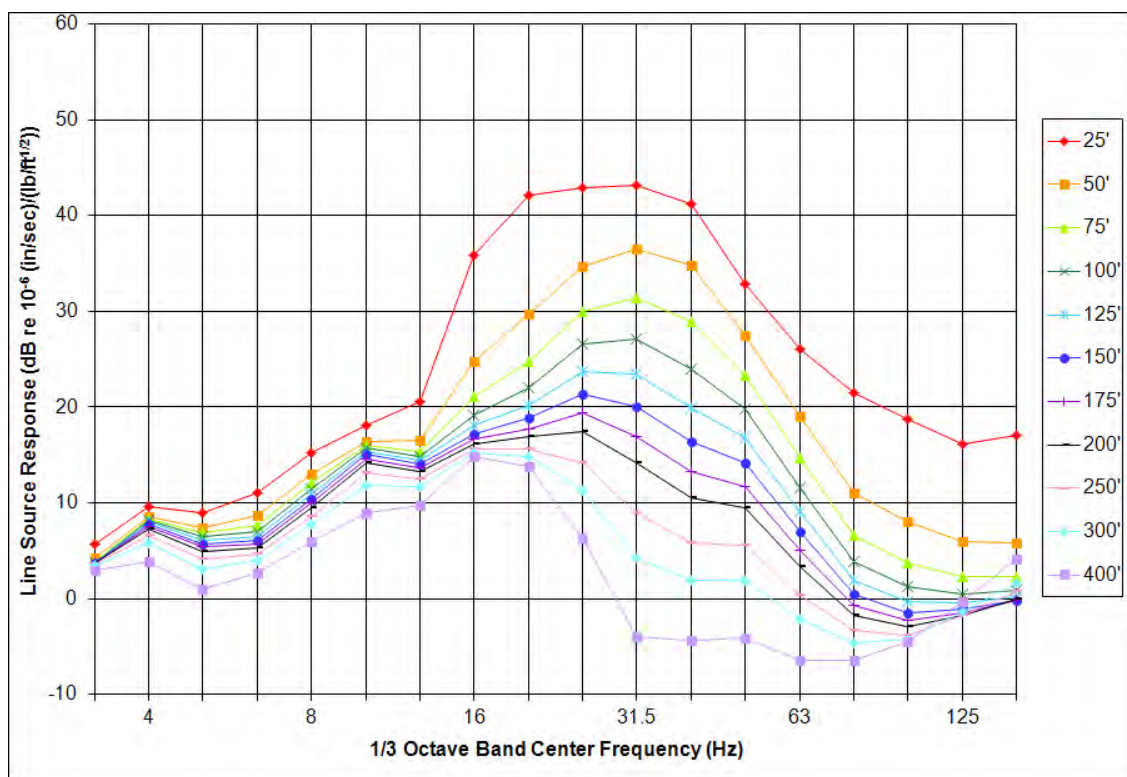


Exhibit E-7. Line Source Responses for Site SVT-07

Table E-8. SVT-08 Regression Coefficients from Measured Transfer Mobilities

Coeff.	1/3 Octave Band Center Frequency (Hz)																	
	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100	125	160
A₀	12	-31	-15	-50	-40	-24	-41	132	282	286	230	177	230	77	-34	9	52	44
A₁	-41	40	30	95	89	71	96	-198	-448	-449	-341	-237	-309	-43	159	104	33	40
A₂	15	-31	-33	-69	-69	-59	-65	98	235	239	183	127	160	11	-111	-95	-60	-66
A₃	-2	6	7	13	14	12	12	-17	-41	-43	-34	-25	-30	-4	19	18	13	15

$$PSR = A_0 + A_1 \cdot \log_{10}(D) + A_2 \cdot \log_{10}^2(D) + A_3 \cdot \log_{10}^3(D)$$

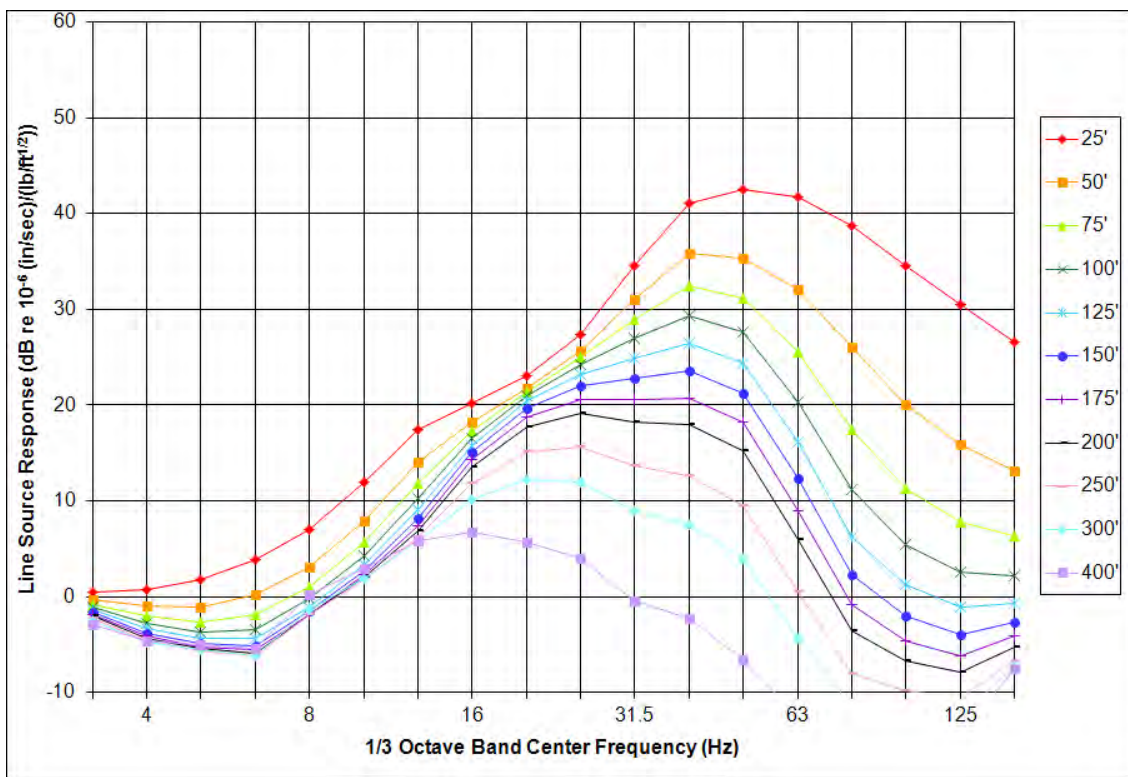
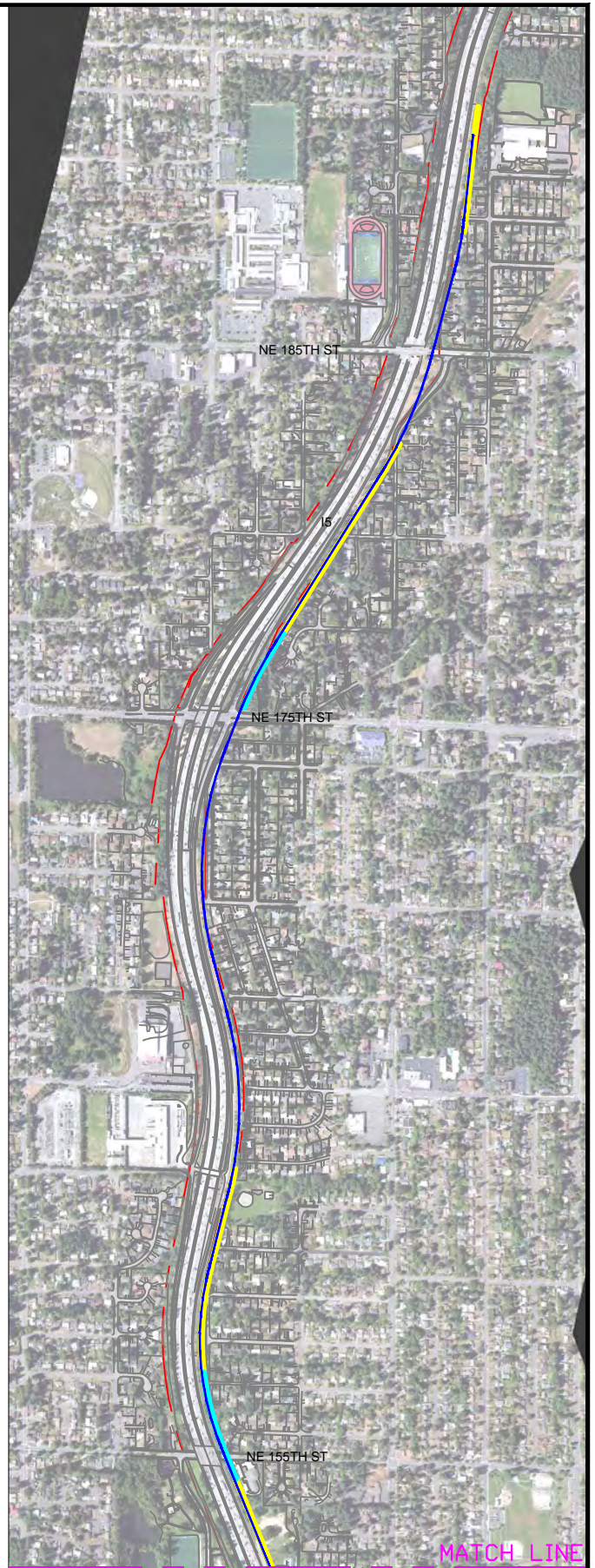


Exhibit E-8. Line Source Responses for Site SVT-08

ATTACHMENT F

Maps of Noise Wall Mitigation Locations

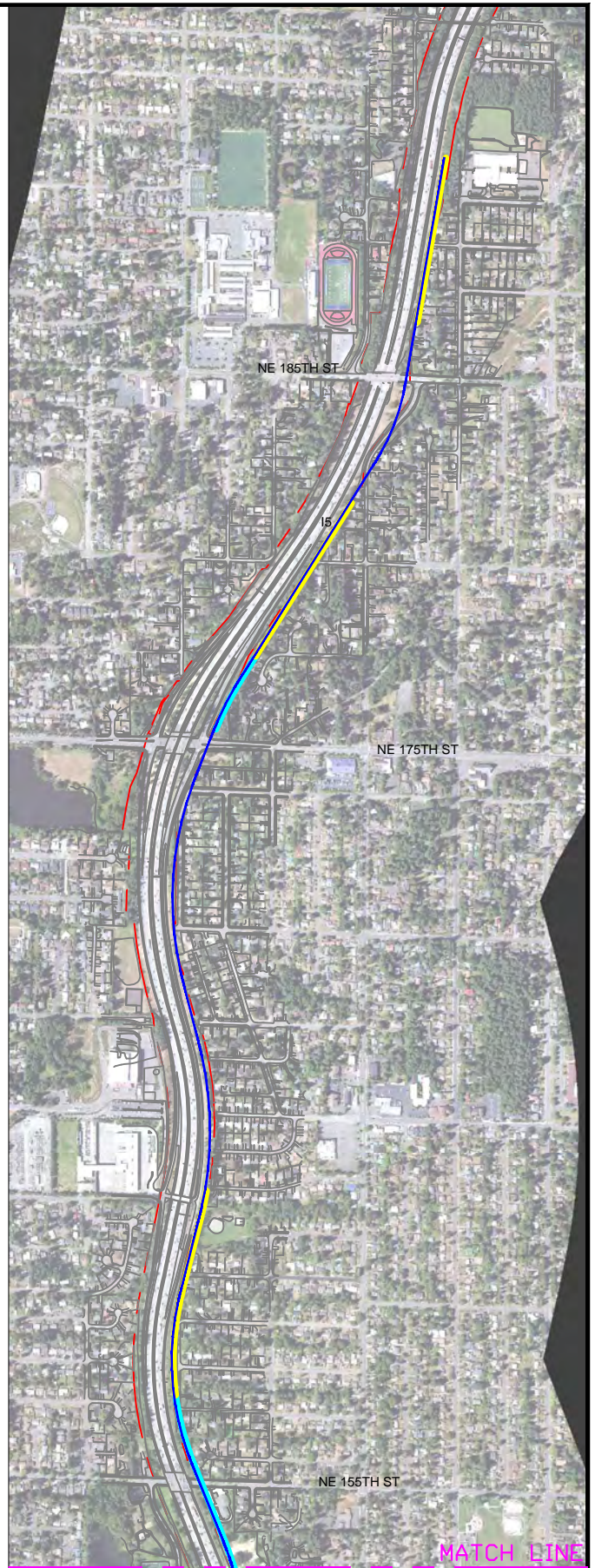


**SOUND TRANSIT
LYNNWOOD LINK EXTENSION PROJECT**

ALTERNATIVE A1
AREAS WITH NOISE WALL MITIGATION

— aerial — at-grade










Sound Transit
 **North Corridor
Transit Partners**
PARAMETRIX • PARSONS BRINCKERHOFF

SOUND TRANSIT
LYNNWOOD LINK EXTENSION PROJECT
 ALTERNATIVE A10
 AREAS WITH NOISE WALL MITIGATION
 — aerial — at-grade




Sound Transit
 **North Corridor
Transit Partners**
PARAMETRIX • PARSONS BRINCKERHOFF

SOUND TRANSIT
LYNNWOOD LINK EXTENSION PROJECT
 ALTERNATIVE A11
 AREAS WITH NOISE WALL MITIGATION
 — aerial — at-grade

