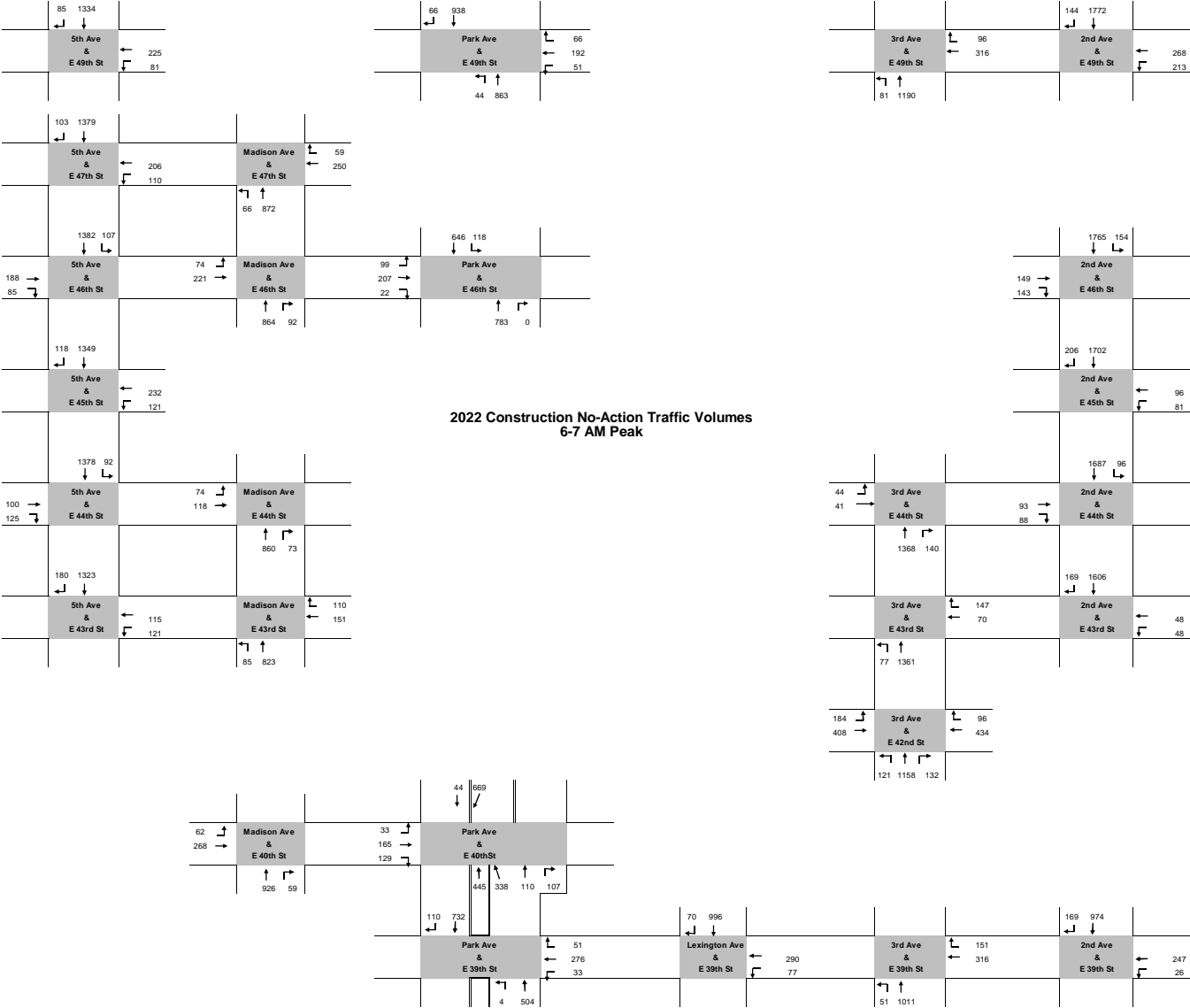
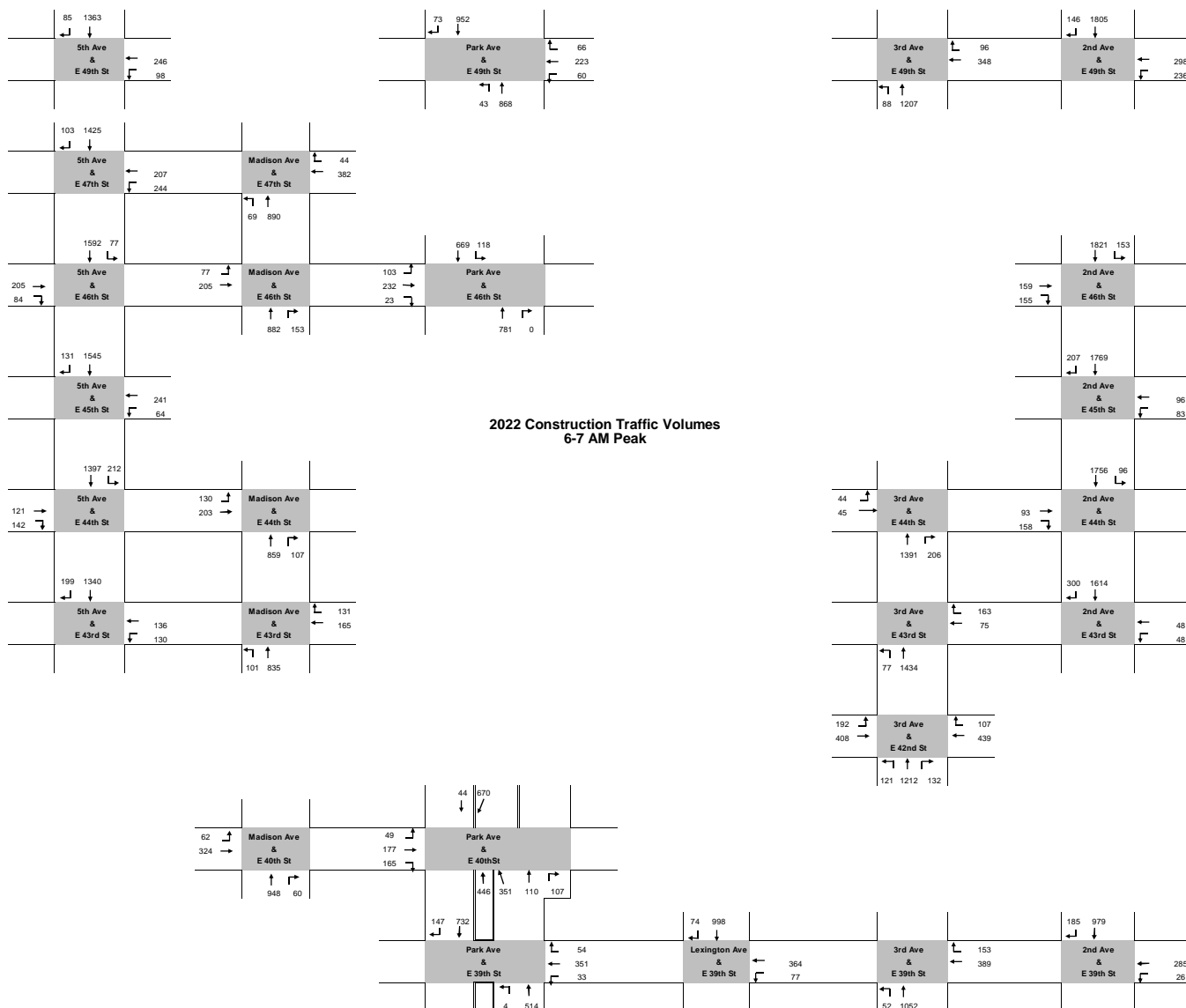


Appendix 5 – Construction

CONSTRUCTION TRAFFIC





East Midtown Rezoning and Related Actions FEIS

Level of Service Table - Construction Conditions (AM Peak Hour)

Signalized Intersection	Approach	No-Action 2022				Construction 2022				Construction with Mitigation 2022			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Second Avenue @ East 39th Street	WB	LT	0.66	32.9	C	LT	0.76	37.7	D				
	SB	TR	0.40	8.7	A	TR	0.41	8.7	A				
	INTERSECTION			13.3	B			14.8	B				
Second Avenue @ East 43rd Street	WB	LT	0.30	23.7	C	LT	0.30	23.7	C				
	SB	TR	0.60	10.5	B	TR	0.67	11.4	B				
	INTERSECTION			11.1	B			12.0	B				
Second Avenue @ East 44th Street	EB	TR	0.64	37.4	D	TR	0.97	77.7	E	TR	0.97	77.7	E
	SB	LT	0.53	7.2	A	LT	0.55	7.4	A	LT	0.55	7.4	A
	INTERSECTION			10.0	B			15.8	B			15.8	B
Second Avenue @ East 45th Street	WB	LT	0.66	39.2	D	LT	0.67	39.8	D				
	SB	TR	0.59	7.8	A	TR	0.61	8.0	A				
	INTERSECTION			10.4	B			10.6	B				
Second Avenue @ East 46th Street	EB	TR	1.00	83.7	F	TR	1.08	105.4	F	TR	0.99	76.7	E
	SB	LT	0.58	7.6	A	LT	0.59	7.8	A	LT	0.62	9.3	A
	INTERSECTION			17.7	B			21.1	C			18.5	B
Second Avenue @ East 49th Street	WB	LT	1.68	353.1	F	LT	1.86	432.4	F	LT	1.64	333.3	F
	SB	TR	0.65	11.7	B	TR	0.66	11.8	B	TR	0.70	14.7	B
	INTERSECTION			80.2	F			102.2	F			83.2	F
Third Avenue @ East 39th Street	WB	TR	0.95	52.1	D	TR	1.08	87.4	F	TR	0.98	54.3	D
	NB	LT	0.43	15.0	B	LT	0.44	15.1	B	LT	0.49	18.8	B
	INTERSECTION			26.3	C			38.9	D			30.5	C
Third Avenue @ East 42nd Street	EB	L	0.77	55.0	D	L	0.80	58.2	E	L	0.76	52.5	D
		T	0.69	26.7	C	T	0.69	26.7	C	T	0.62	21.7	C
	WB	T	0.74	39.5	D	T	0.74	39.9	D	T	0.65	33.9	C
		R	0.66	51.9	D	R	0.83	74.7	E	R	0.72	55.2	E
	NB	LTR	0.69	22.6	C	LTR	0.72	23.2	C	LTR	0.81	29.4	C
	INTERSECTION			29.6	C			31.2	C			31.7	C
Third Avenue @ East 43rd Street	WB	TR	0.63	30.3	C	TR	0.69	33.5	C				
	NB	LT	0.51	12.3	B	LT	0.54	12.5	B				
	INTERSECTION			14.6	B			15.4	B				
Third Avenue @ East 44th Street	EB	LT	0.22	19.7	B	LT	0.23	19.8	B				
	NB	TR	0.55	12.7	B	TR	0.60	13.3	B				
	INTERSECTION			13.1	B			13.6	B				
Third Avenue @ East 49th Street	WB	T	0.48	16.6	B	T	0.53	17.6	B				
		R	0.43	37.7	D	R	0.43	37.7	D				
	NB	LT	0.59	21.7	C	LT	0.60	21.9	C				
	INTERSECTION			21.7	C			21.9	C				
Lexington Avenue @ East 39th Street	WB	L	0.42	41.5	D	L	0.42	41.5	D				
		T	0.61	26.7	C	T	0.76	33.6	C				
	SB	T	0.57	14.1	B	T	0.57	14.1	B				
		R	0.27	13.0	B	R	0.28	13.3	B				
	INTERSECTION			18.1	B			20.2	C				
Park Avenue @ West 39th Street	WB	LTR	0.76	32.9	C	LTR	0.91	47.1	D	LTR	0.88	42.8	D
	NB	Lt†	-	38.6	D	Lt†	-	38.7	D	Lt†	-	38.8	D
		LT	0.37	14.5	B	LT	0.38	14.6	B	LT	0.39	15.3	B
	SB	TR	0.65	19.1	B	TR	0.69	20.2	C	TR	0.71	21.3	C
	INTERSECTION			0.0	A			25.1	C			24.8	C
Park Avenue @ West 40th Street	EB	LT	0.47	25.9	C	LT	0.54	27.9	C				
		R	0.51	29.5	C	R	0.65	35.9	D				
	NB	T (Tunnel Exit)	0.57	17.0	B	T (Tunnel Exit)	0.57	17.0	B				
		T (SR onto Viaduct)	0.41	14.0	B	T (SR onto Viaduct)	0.43	14.3	B				
		TR	0.36	13.7	B	TR	0.36	13.7	B				
	SB	T	0.06	10.2	B	T	0.06	10.2	B				
		T (Viaduct Exit)	0.77	21.8	C	T (Viaduct Exit)	0.77	21.9	C				
INTERSECTION			0.0	A			33.5	C					
Park Avenue @ West 46th Street	EB	LT	0.30	17.3	B	LT	0.33	17.6	B				
		R	0.05	15.0	B	R	0.05	15.0	B				
	NB	TR	0.55	19.8	B	TR	0.55	19.8	B				
		Lt†	-	39.8	D	Lt†	-	39.8	D				
	INTERSECTION			0.0	A			25.0	C				
Park Avenue @ West 49th Street	WB	LT	0.58	26.6	C	LT	0.68	30.3	C				
		R	0.21	19.2	B	R	0.21	19.2	B				
		Lt†	-	37.0	D	Lt†	0.00	37.0	D				
	NB	T	0.65	20.2	C	T	0.66	20.3	C				
	INTERSECTION			0.0	A			19.6	B				

East Midtown Rezoning and Related Actions FEIS

Signalized Intersection	Approach	No-Action 2022				Construction 2022				Construction with Mitigation 2022			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Madison Avenue @ East 40th Street	EB	L	0.38	41.3	D	L	0.38	41.3	D				
		T	0.57	25.6	C	T	0.69	29.8	C				
	NB	TR	0.60	14.6	B	TR	0.62	14.9	B				
		INTERSECTION			18.1	B			19.5	B			
Madison Avenue @ East 43rd Street	WB	T	0.31	20.8	C	T	0.34	21.3	C				
		R	0.40	24.0	C	R	0.48	26.3	C				
	NB	L	0.29	15.5	B	L	0.35	16.8	B				
		T	0.68	16.1	B	T	0.69	16.3	B				
INTERSECTION			17.4	B			18.1	B					
Madison Avenue @ East 44th Street	EB	LT	0.52	26.0	C	LT	0.91	54.7	D	LT	0.86	44.9	D
		T	0.77	18.8	B	T	0.77	18.7	B	T	0.80	21.9	C
	NB	R	0.29	12.9	B	R	0.44	16.4	B	R	0.47	19.0	B
		INTERSECTION			19.6	B			27.8	C			27.6
Madison Avenue @ East 46th Street	EB	LT	0.69	31.2	C	LT	0.66	30.2	C				
		T	0.78	19.4	B	T	0.80	20.1	C				
	NB	R	0.33	13.3	B	R	0.55	19.0	B				
		INTERSECTION			21.8	C			22.2	C			
Madison Avenue @ East 47th Street	WB	T	0.51	23.4	C	T	0.78	34.3	C				
		R	0.32	38.1	D	R	0.24	36.2	D				
	NB	L	0.26	13.6	B	L	0.30	14.5	B				
		LT	0.77	20.3	C	LT	0.79	20.9	C				
INTERSECTION			21.4	C			24.8	C					
Fifth Avenue @ 43rd Street	WB	L	0.37	22.6	C	L	0.40	23.4	C	L	0.45	27.0	C
		T	0.24	19.6	B	T	0.28	20.3	C	T	0.31	22.7	C
	SB	T	0.71	15.7	B	T	0.72	15.9	B	T	0.68	12.7	B
		R	0.81	40.0	D	R	0.90	52.9	D	R	0.84	40.0	D
INTERSECTION			18.9	B			20.8	C			17.5	B	
Fifth Avenue @ 44th Street	EB	T	0.22	19.5	B	T	0.27	20.1	C				
		R	0.40	23.6	C	R	0.46	25.1	C				
	SB	LT	0.83	19.1	B	LT	0.95	28.8	C				
		INTERSECTION			19.5	B			28.0	C			
Fifth Avenue @ 45th Street	WB	LT	0.91	52.3	D	LT	0.74	34.6	C				
		T	0.72	15.9	B	T	0.83	18.9	B				
	SB	R	0.42	15.3	B	R	0.47	16.5	B				
		INTERSECTION			22.9	C			21.2	C			
Fifth Avenue @ 46th Street	EB	TR	0.73	34.5	C	TR	0.76	36.8	D				
	SB	LT	0.83	19.0	B	LT	0.91	23.9	C				
		INTERSECTION			21.4	C			25.8	C			
Fifth Avenue @ 47th Street	WB	L	0.48	40.8	D	L	1.07	115.6	F	L	1.07	115.6	F
		T	0.41	19.9	B	T	0.41	19.9	B	T	0.41	19.9	B
	SB	T	0.81	21.5	C	T	0.83	22.6	C	T	0.83	22.6	C
		R	0.43	18.9	B	R	0.43	19.0	B	R	0.43	19.0	B
INTERSECTION			22.4	C			33.6	C			33.6	C	
Fifth Avenue @ 49th Street	WB	LT	0.29	19.6	B	LT	0.33	20.1	C				
		T	0.71	15.5	B	T	0.72	15.8	B				
	SB	R	0.24	11.2	B	R	0.24	11.2	B				
		INTERSECTION			16.0	B			16.4	B			

Notes:

1) To mimic actual conditions for NB/SB left turning vehicles on Park Avenue, the sum of two delays were accounted for: (1) delay from making the left turn; and (2) delay from waiting at the red light after the left turn
 Shading denotes locations with no significant adverse impacts.
 Source: Parsons Brinckerhoff, Inc. 2013

2022 Q2 Construction Weekday Midday Net Parking Demand

Projected Site #	Construction Workers	Displaced Buildings	Completed Buildings	Net Total
1	84	-77	0	7
2	0	0	0	0
3	0	0	0	0
4	0	0	67	67
5	26	-107	0	-81
6	36	-114	0	-78
7	108	-94	0	14
8	4	-11	0	-7
9	0	0	163	163
10	0	0	0	0
11	45	-9	0	36
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	12	12
19	137	-188	0	-51
Totals	440	-600	242	82

Note: Midday peak period is noon to 2:00 p.m.

CONSTRUCTION NOISE

Construction Equipment Information

CA/T Equipment 50 ft Noise Emission Reference Levels and Usage Factors that were used in the RCNM Calculations for the East Midtown Rezoning Noise Study as Specified in Subchapter 5 of the New York City Noise Control Code.

Equipment Description	Impact Device?	Usage Factor (%)	Spec. 721.560 Lmax @ 50 feet (dBA, slow)	Actual Measured Lmax @ 50 feet (dBA, slow)
All Other Equipment > 5HP	No	50	85	n/a
Auger Drill Rig	No	20	85	84
Backhoe	No	40	80	78
Bar Bender	No	20	80	80
Blasting	Yes	n/a	94	n/a
Boring Jack Power Unit	No	50	80	83
Chain Saw	No	20	85	84
Clam Shovel (dropping)	Yes	20	93	87
Compactor (ground)	No	20	80	83
Compressor (air)	No	40	80	78
Concrete Batch Plant	No	15	83	83
Concrete Mixer Truck	No	40	85	79
Concrete Pump Truck	No	20	82	81
Concrete Saw	No	20	90	90
Crane	No	16	85	81
Dozer	No	40	85	82
Drill Rig Truck	No	20	84	79
Drum Mixer	No	50	80	80
Dump Truck	No	40	84	76
Excavator	No	40	85	81
Flat Bed Truck	No	40	84	74
Front End Loader	No	40	80	79
Generator	No	50	82	81
Generator (<25KVA, VMS signs)	No	50	70	73
Gradall	No	40	85	83
Grader	No	40	85	85
Grapple (on backhoe)	No	40	85	87
Horizontal Boring Hydr. Jack	No	25	80	82
Hydra Break Ram	Yes	10	90	90
Impact Pile Driver	Yes	20	95	101
Jackhammer	Yes	20	85	89
Man Lift	No	20	85	75
Mounted Impact Hammer (hoe ram)	Yes	20	90	90
Pavement Scarafier	No	20	85	90
Paver	No	50	85	77
Pickup Truck	No	40	55	75
Pneumatic Tools	No	50	85	85
Pumps	No	50	77	81

CA/T Equipment 50 ft Noise Emission Reference Levels and Usage Factors that were used in the RCNM Calculations for the East Midtown Rezoning Noise Study as Specified in Subchapter 5 of the New York City Noise Control Code.

Equipment Description	Impact Device?	Usage Factor (%)	Spec. 721.560 Lmax @ 50 feet (dBA, slow)	Actual Measured Lmax @ 50 feet (dBA, slow)
Refrigerator Unit	No	100	82	73
Rivet Buster/chipping gun	Yes	20	85	79
Rock Drill	No	20	85	81
Roller	No	20	85	80
Sand Blasting	No	20	85	96
Scraper	No	40	85	84
Shears (on backhoe)	No	40	85	96
Slurry Plant	No	100	78	78
Slurry Trenching Machine	No	50	82	80
Soil Mix Drill Rig	No	50	80	80
Tractor	No	40	84	84
Vacuum Excavator (Vac-truck)	No	40	85	85
Vacuum Street Sweeper	No	10	80	82
Ventilation Fan	No	100	85	79
Vibrating Hopper	No	50	85	87
Vibratory Concrete Mixer	No	20	80	80
Vibratory Pile Driver	No	20	95	101
Warning Horn	No	5	85	83
Water Jet deleading	No	20	85	92
Welder / Torch	No	40	73	74

Sources: Citywide Construction Noise Mitigation, Chapter 28, Department of Environmental Protection of New York City, 2007; Transit Noise and Vibration Impact Assessment, Federal Transit Administration (FTA), May 2006; and Subchapter 5 of the New York City Noise Control Code.

New York City Noise Control Code

Equipment Description	Spec¹ (dBA) at 50 feet	Subchapter 5
Refuse collection vehicle	77	80 dBA at 35 feet (24-225(a))
Compressor (air)	56	80 dBA at 1 meter (24-226(b))
Concrete Saw	85	85 dBA at 50 feet (24-228(a)(1))
Paving breaker/Jackhammer	71	95 dBA at 1 meter (24-230(b))
Vibratory Pile Driver	85	85 dBA at 50 feet (24-228(a)(1))

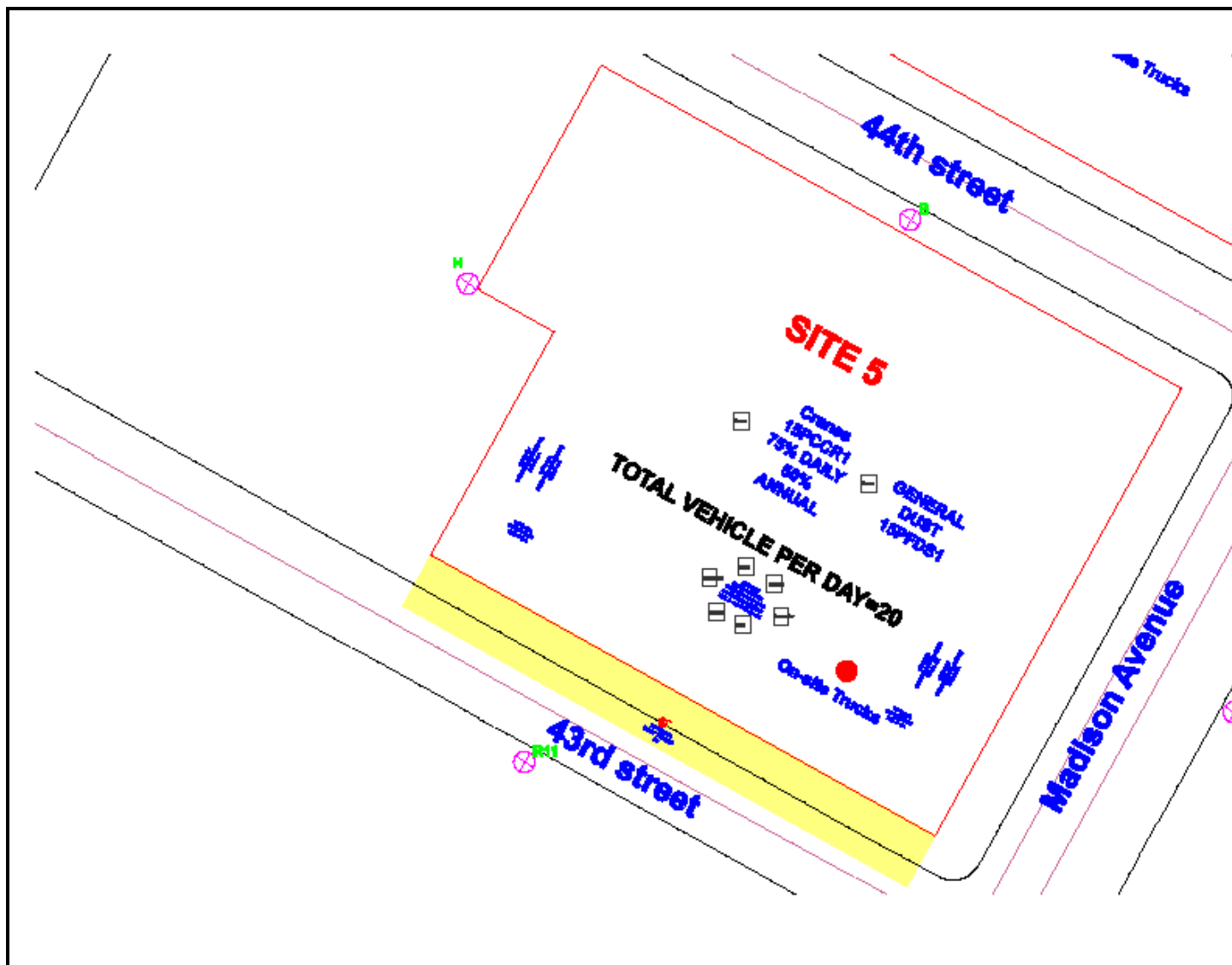
¹To The Extent Feasible and Practical Developers Can Use Equipment Listed In This Table That Have Noise Emission Levels which are lower than the threshold limits Specified in Subchapter 5 of the New York City Noise Control code.

Federal Transit Administration**Table 2-1, Transit Noise and Vibration Impact Assessment May-06**

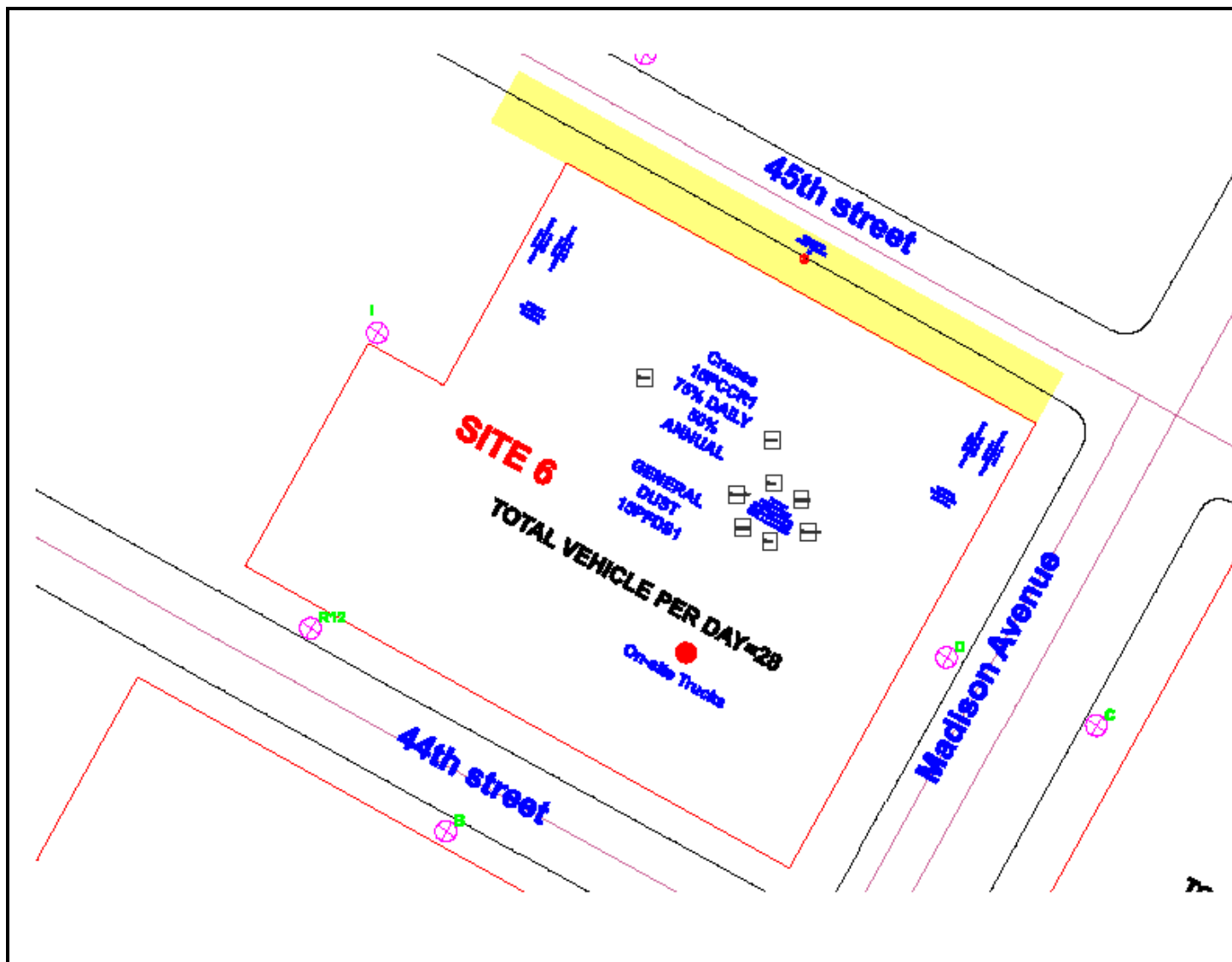
CONSTRUCTION EQUIPMENT NOISE EMISSION LEVELS	
Equipment	Typical Noise Level (dBA) Spec (dBA) at 50 feet (FTA Manual based on EPA)
Air Compressor	81
Backhoe	80
Ballast Equalizer	82
Ballast Tamper	83
Compactor	82
Concrete Mixer	85
Concrete Pump	82
Concrete Vibrator	76
Crane, Derrick	88
Crane, Mobile	83
Dozer	85
Generator	81
Grader	85
Impact Wrench	85
Jackhammer, Drills	88
Loader	85
Paver	89
Pile Driver (Impact)	101
Pile Driver (Sonic)	96
Pneumatic Tool	85
Pump	76
Rail Saw	90
Rock Drill	98
Roller	74
Saw	76
Scarifier	83
Scraper	89
Shovel	82
Spike Driver	77
Tie Cutter	84
Tie Handler	80
Tie Inserter	85
Truck	88

Figures Depicting Modeling Receptors and Construction Equipment

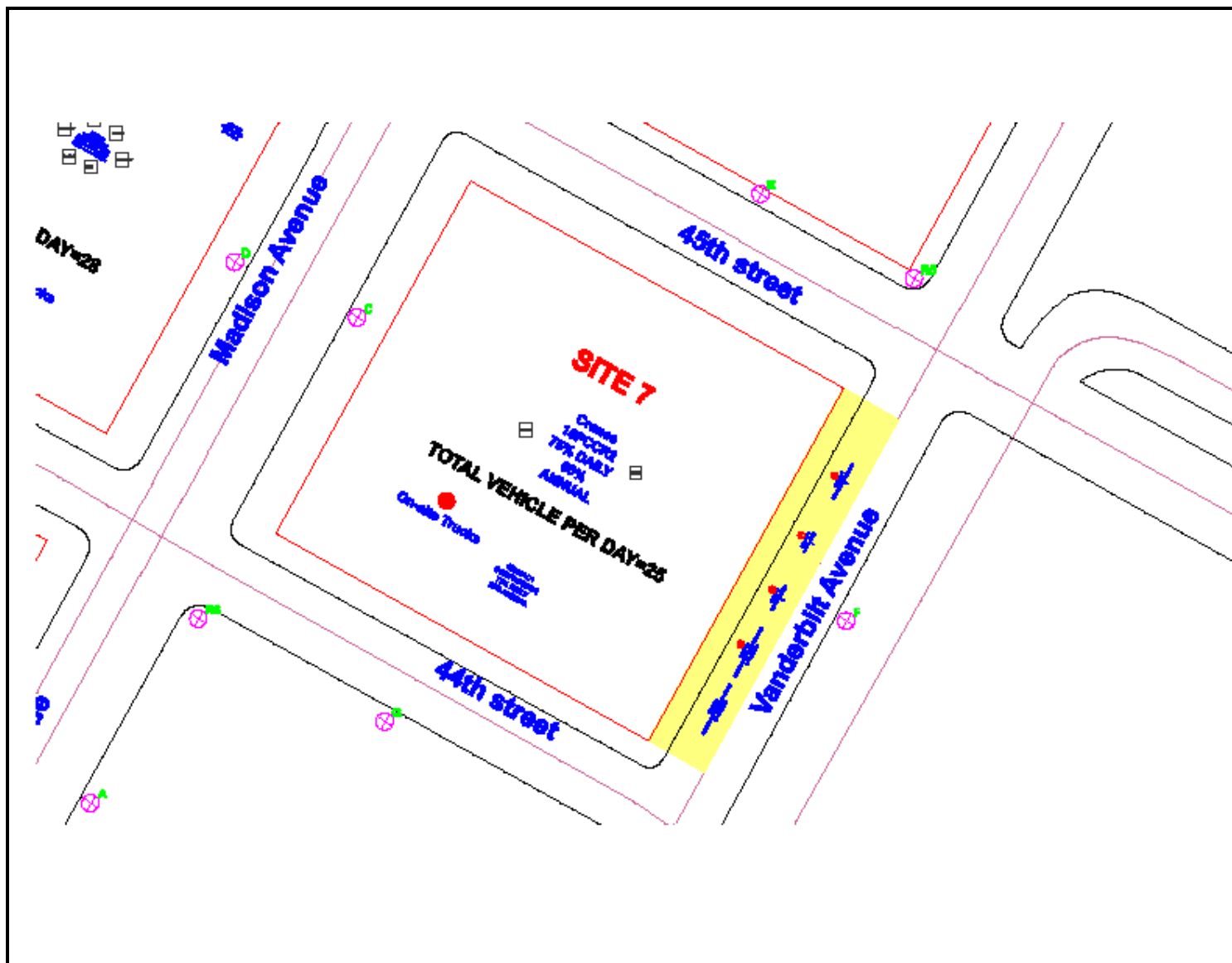
Receptors and Construction Equipment – Site 5



Receptors and Construction Equipment – Site 6



Receptors and Construction Equipment – Site 7



**Measured Existing 6-7 AM Noise Levels
at Construction Noise Modeling Locations**

Measured Existing Noise Levels (6-7 AM)¹

Site	Measurement Location	Time	Measured date	L _{eq}	L ₁	L ₁₀	L ₅₀	L ₉₀
4	361 Madison Avenue	AM	1/10/2013	73.1	80.3	76.3	71.2	67.3
5	52 Vanderbilt Avenue	AM	1/10/2013	73.2	82.6	75.6	70.4	67.9
6	333 Madison Avenue	AM	1/10/2013	72.2	79.8	75.5	69.8	66.1
11	6 East 43rd Street	AM	2/21/2013	68.0	78.8	70.3	65.1	61.5
12	11 East 44th Street	AM	2/21/2013	68.2	76.7	70.4	66.7	64.3
13	9 East 45th Street	AM	2/21/2013	70.8	80.4	72.9	68.3	64.5
A ²	333 Madison Avenue	AM	1/10/2013	72.2	79.8	75.5	69.8	66.1
B ²	11 East 44th Street	AM	2/21/2013	68.2	78.8	70.3	65.1	61.5
C ²	333 Madison Avenue	AM	1/10/2013	72.2	79.8	75.5	69.8	66.1
D ²	333 Madison Avenue	AM	1/10/2013	72.2	79.8	75.5	69.8	66.1
E ²	52 Vanderbilt Avenue	AM	1/10/2013	73.2	82.6	75.6	70.4	67.9
F ²	52 Vanderbilt Avenue	AM	1/10/2013	73.2	82.6	75.6	70.4	67.9
G ²	333 Madison Avenue	AM	1/10/2013	72.2	79.8	75.5	69.8	66.1
H ³	Mid-building facing the western-most façade of Projected Development Site 5 between 43 rd and 44 th Streets, looking toward Fifth Avenue	AM	NA	64	NA	67	NA	NA
I ³	Mid-building facing the western-most façade of Projected Development Site 6 between 44 th and 45 th Streets, looking toward Fifth Avenue	AM	NA	64	NA	67	NA	NA

¹Field measurements performed by Parsons Brinckerhoff Inc. in January 2013.

²Measurements derived from noise readings collected at nearby noise monitoring locations.

³Noise levels derived based on distance adjustments at other nearby sites.

**One Third Octave-band Noise Measurements
(6-7 AM)**

One-Third Octave-band Noise Measurements

Receptor	Time (6- 7 AM)	L _{eq}	L ₁₀	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
4	AM	73.1	76.3	52.3	63.6	62.9	65.7	68.8	72.4	69.4	64.3	59.7
5	AM	73.2	75.6	46.9	60.0	61.7	68.5	72.4	72.2	71.2	67.9	63.8
6	AM	72.2	75.5	39.7	63.7	63.8	64.2	68.4	71.4	69.0	63.8	58.7
11	AM	68.0	70.3	76.5	81.2	73.5	70.7	68.9	69.9	65.7	60.0	54.4
12	AM	68.2	70.4	76.3	80.2	72.9	68.2	66.0	68.2	63.9	57.0	52.3
13	AM	70.8	72.9	81.3	84.7	75.6	72.5	71.9	70.8	68.5	63.0	59.9

Total Daily Vehicle Trips during Construction by Quarter

Total Daily Vehicle Trips During Construction by Quarter

Vehicle Type	2016				2017				2018				2019				2020			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Autos	0	0	0	71	110	159	154	143	111	102	315	315	651	721	721	790	677	402	437	334
Trucks	0	0	0	57	88	126	122	107	82	69	78	78	166	185	185	210	191	1743	181	134
Total Vehicles	0	0	0	128	198	285	276	250	193	171	393	393	817	906	906	1,000	868	545	618	468
Total PCEs	0	0	0	185	286	411	397	357	275	241	471	471	983	1,090	1,090	1,210	1,059	688	798	603
Vehicle Type	2021				2022				2023				2024				2025			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Autos	494	505	470	521	829	881	563	491	451	595	517	396	510	448	497	481	312	312	241	241
Trucks	166	172	126	166	246	290	183	185	149	164	130	90	160	134	153	132	99	99	80	80
Total Vehicles	660	677	596	687	1,074	1,171	746	675	600	759	647	486	670	583	650	613	411	411	320	320
Total PCEs	826	849	722	853	1,320	1,460	928	860	750	923	777	576	830	717	803	746	510	510	400	400
Vehicle Type	2026				2027				2028				2029				2030			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Autos	192	264	264	264	339	186	186	238	264	264	166	199	146	128	272	213	213	178	170	170
Trucks	61	92	92	92	80	50	50	44	80	80	65	63	65	48	97	63	63	44	40	40
Total Vehicles	253	357	357	357	419	236	236	282	343	343	231	262	211	176	368	276	276	223	210	210
Total PCEs	314	449	449	449	499	287	287	326	423	423	296	325	276	225	465	339	339	267	250	250
Vehicle Type	2031				2032				2033											
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q								
Autos	170	169	169	132	169	169	169	37	37	0	0	0								
Trucks	40	36	36	21	34	34	34	13	13	0	0	0								
Vehicle Type	2031				2032				2033											
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q								
Total Vehicles	210	204	204	153	203	203	203	50	50	0	0	0								
Total PCEs	250	240	240	174	237	237	237	62	62	0	0	0								

Notes:

PCE: Passenger Car Equivalent

Bold text indicates workers or trucks

2022 Q2 Hourly Construction-Vehicle Trip Projections (in PCEs)

2022 Construction-Vehicle Trip Projections (in PCEs)

Time Period	Construction Trips			Incremental Operational Trips			Displaced Trips			Total Trips		
	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total
6:00 AM – 7:00 AM	425	72	497	-18	-26	-44	-11	-14	-25	396	32	428
7:00 AM – 8:00 AM	117	29	146	-17	-42	-59	-79	-58	-137	21	-71	-50
8:00 AM – 9:00 AM	29	29	58	181	23	204	-677	-350	-1,027	-467	-298	-765
9:00 AM – 10:00 AM	29	29	58	179	60	239	-628	-381	-1,009	-421	-291	-712
10:00 AM – 11:00 AM	29	29	58	43	47	90	-335	-354	-689	-263	-278	-541
11:00 AM – 12:00 PM	29	29	58	60	63	124	-361	-369	-730	-272	-277	-548
12:00 PM – 1:00 PM	29	29	58	24	31	55	-609	-610	-1,219	-556	-550	-1,106
1:00 PM – 2:00 PM	29	29	58	121	109	230	-519	-499	-1,018	-369	-361	-730
2:00 PM – 3:00 PM	14	59	73	112	87	199	-449	-406	-855	-323	-260	-582
3:00 PM – 4:00 PM	0	352	352	39	39	77	-305	-311	-616	-266	80	-186
4:00 PM – 5:00 PM	0	44	44	-27	58	31	-252	-434	-686	-280	-331	-611
5:00 PM – 6:00 PM	0	0	0	-94	96	2	-377	-745	-1,122	-471	-649	-1,120
TOTALS	730	730	1,460	602	545	1,148	-4,602	-4,530	-9,132	-3,270	-3,254	-6,524

**Roadway Construction Noise Model (RCNM)
Noise Level Calculation for Future 2022 Q2 Peak
Construction Quarter**

RCNM Construction Noise Level Calculation for Future 2022 Q2

Site	Building #	Equipment	Shielding Factors	Distance (feet)	L _{max}	L _{eq}	L ₁₀	
R6	5	Crane 1	5	197	64.1	56.1	59.1	
		Crane 2	5	249	62.1	54.1	57.1	
		Generator 1	5	206	63.7	60.7	63.7	
		Generator 2	5	335	59.5	56.5	59.5	
		Compressors Light 1	5	182	61.8	57.8	60.8	
		Compressors Light 2	5	187	61.5	57.6	60.6	
		Compressors Light 3	5	323	56.8	52.8	55.8	
		Compressors Light 4	5	331	56.6	52.6	55.6	
		Excavator 1	5	237	62.5	58.5	61.5	
		Excavator 2	5	262	61.6	57.6	60.6	
		Bobcats w/ Ram 1	5	253	65.9	62.9	65.9	
		Bobcats w/ Ram 2	5	247	66.1	63.1	66.1	
		Bobcats w/ Bucket 1	5	237	66.5	63.5	66.5	
		Bobcats w/ Bucket 2	5	262	65.6	62.6	65.6	
		total				66.5	71.2	74.2
		Concrete Mixer Truck	5	220	61.1	57.2	60.2	
		Concrete Mixer Truck	5	220	61.1	57.2	60.2	
		Concrete Mixer Truck	5	220	61.1	57.2	60.2	
		Concrete Mixer Truck	5	220	61.1	57.2	60.2	
		Concrete Pump Truck	5	220	63.1	56.1	59.1	
		Concrete Pump Truck	5	220	63.1	56.1	59.1	
		Concrete Pump Truck	5	220	63.1	56.1	59.1	
		Dump Truck	5	220	58.1	54.2	57.2	
	Dump Truck	5	220	58.1	54.2	57.2		
	Dump Truck	5	220	58.1	54.2	57.2		
	total				63.1	66.1	69.1	
	Sub-Total				66.5	72.4	75.4	
	6	Crane 1	5	263	61.6	53.6	56.6	
		Crane 2	5	301	60.4	52.4	55.4	
		Generator 1	5	237	62.5	59.5	62.5	
		Generator 2	5	342	59.3	56.3	59.3	
		Compressors Light 1	5	256	58.8	54.8	57.8	
		Compressors Light 2	5	258	58.7	54.8	57.8	
Compressors Light 3		5	360	55.9	51.9	54.9		
Compressors Light 4		5	366	55.7	51.7	54.7		
Excavator 1		5	225	62.9	59	62		
Excavator 2		5	246	62.2	58.2	61.2		
Bobcats w/ Ram 1		5	225	66.9	63.9	66.9		
Bobcats w/ Ram 2		5	247	66.1	63.1	66.1		
Bobcats w/ Bucket 1		5	232	66.7	63.7	66.7		
Bobcats w/ Bucket 2		5	238	66.4	63.4	66.4		
total					66.9	71.2	74.2	
Concrete Mixer Truck		5	196	62.1	58.2	61.2		
Concrete Mixer Truck		5	196	62.1	58.2	61.2		
Concrete Mixer Truck	5	196	62.1	58.2	61.2			
Concrete Mixer Truck	5	196	62.1	58.2	61.2			
Concrete Mixer Truck	5	196	62.1	58.2	61.2			
Concrete Pump Truck	5	196	64.1	57.1	60.1			

RCNM Construction Noise Level Calculation for Future 2022 Q2

Site	Building #	Equipment	Shielding Factors	Distance (feet)	L _{max}	L _{eq}	L ₁₀		
		Concrete Pump Truck	5	196	64.1	57.1	60.1		
		Concrete Pump Truck	5	196	64.1	57.1	60.1		
		Concrete Pump Truck	5	196	64.1	57.1	60.1		
		Concrete Pump Truck	5	196	64.1	57.1	60.1		
		Dump Truck	5	196	59.1	55.2	58.2		
		Dump Truck	5	196	59.1	55.2	58.2		
		Dump Truck	5	196	59.1	55.2	58.2		
		Dump Truck	5	196	59.1	55.2	58.2		
		total				64.1	68.6	71.6	
	Sub-Total				66.9	73.1	76.1		
	7		Crane 1	5	223	63	55.1	58.1	
			Crane 2	5	183	64.7	56.8	59.8	
			Rubber Tire Crane	5	320	59.9	51.9	54.9	
			Conc. Pump	5	299	60.5	53.5	56.5	
			Compressor	5	154	63.2	59.2	62.2	
			total				64.7	63	66
				Concrete Mixer Truck	5	136	65.3	61.3	64.3
				Concrete Mixer Truck	5	136	65.3	61.3	64.3
				Concrete Mixer Truck	5	136	65.3	61.3	64.3
Concrete Mixer Truck				5	136	65.3	61.3	64.3	
Concrete Pump Truck				5	136	67.3	60.3	63.3	
Concrete Pump Truck				5	136	67.3	60.3	63.3	
Concrete Pump Truck				5	136	67.3	60.3	63.3	
Concrete Pump Truck				5	136	67.3	60.3	63.3	
Dump Truck				5	136	62.3	58.3	61.3	
Dump Truck				5	136	62.3	58.3	61.3	
Dump Truck				5	136	67	63	66	
total							67.3	70.7	73.7
Sub-Total							67.3	71.4	74.4
(R6) Buildings 5+6+ 7		Grand Total			67.3	77.1	80.1		
R11	5	Crane 1	5	174	65.2	57.2	60.2		
		Crane 2	5	159	66	58	61		
		Generator 1	5	149	66.5	63.5	66.5		
		Generator 2	5	91	70.8	67.8	70.8		
		Compressors Light 1	5	171	62.3	58.3	61.3		
		Compressors Light 2	5	164	62.7	58.7	61.7		
		Compressors Light 3	5	116	65.7	61.7	64.7		
		Compressors Light 4	5	119	65.5	61.5	64.5		
		Excavator 1	5	117	68.6	64.6	67.6		
		Excavator 2	5	103	69.7	65.7	68.7		
		Bobcats w/ Ram 1	5	102	73.8	70.8	73.8		
		Bobcats w/ Ram 2	5	116	72.7	69.7	72.7		
		Bobcats w/ Bucket 1	5	96	74.3	71.3	74.3		
		Bobcats w/ Bucket 2	5	121	72.3	69.3	72.3		
		total				74.3	78	81	
				Concrete Mixer Truck	3	135	67.4	63.4	66.4
				Concrete Mixer Truck	3	135	67.4	63.4	66.4
				Concrete Mixer Truck	3	135	67.4	63.4	66.4

RCNM Construction Noise Level Calculation for Future 2022 Q2

Site	Building #	Equipment	Shielding Factors	Distance (feet)	L _{max}	L _{eq}	L ₁₀	
		Concrete Mixer Truck	3	135	67.4	63.4	66.4	
		Concrete Pump Truck	3	135	69.4	62.4	65.4	
		Concrete Pump Truck	3	135	69.4	62.4	65.4	
		Concrete Pump Truck	3	135	69.4	62.4	65.4	
		Dump Truck	3	135	64.4	60.4	63.4	
		Dump Truck	3	135	64.4	60.4	63.4	
		Dump Truck	3	135	64.4	60.4	63.4	
		total			69.4	72.4	75.4	
(R11) Building 5		Grand Total			74.3	79.1	82.1	
R12	5	Crane 1	5	188	64.5	56.5	59.5	
		Crane 2	5	161	65.8	57.9	60.9	
		Generator 1	5	280	61	58	61	
		Generator 2	5	226	62.9	59.9	62.9	
		Compressors Light 1	5	268	58.4	54.4	57.4	
		Compressors Light 2	5	263	58.6	54.6	57.6	
		Compressors Light 3	5	199	61	57	60	
		Compressors Light 4	5	200	61	57	60	
		Excavator 1	5	237	62.5	58.5	61.5	
		Excavator 2	5	223	63	59	62	
		Bobcats w/ Ram 1	5	218	67.2	64.2	67.2	
		Bobcats w/ Ram 2	5	240	66.4	63.4	66.4	
		Bobcats w/ Bucket 1	5	224	67	64	67	
		Bobcats w/ Bucket 2	5	236	66.5	63.5	66.5	
			total			67.2	71.8	74.8
			Concrete Mixer Truck	5	260	59.7	55.7	58.7
			Concrete Mixer Truck	5	260	59.7	55.7	58.7
			Concrete Mixer Truck	5	260	59.7	55.7	58.7
			Concrete Mixer Truck	5	260	59.7	55.7	58.7
			Concrete Pump Truck	5	260	61.7	54.7	57.7
			Concrete Pump Truck	5	260	61.7	54.7	57.7
			Concrete Pump Truck	5	260	61.7	54.7	57.7
			Dump Truck	5	260	56.7	52.7	55.7
			Dump Truck	5	260	56.7	52.7	55.7
			Dump Truck	5	260	56.7	52.7	55.7
			total			61.7	64.7	67.7
			Sub-Total			67.2	72.6	75.6
		6	Crane 1	5	165	65.6	57.7	60.7
	Crane 2		5	197	64.1	56.1	59.1	
	Generator 1		5	256	61.8	58.8	61.8	
	Generator 2		5	153	66.3	63.3	66.3	
	Compressors Light 1		5	279	58.1	54.1	57.1	
	Compressors Light 2		5	272	58.3	54.3	57.3	
	Compressors Light 3		5	180	61.9	57.9	60.9	
	Compressors Light 4		5	178	62	58	61	
	Excavator 1		5	177	65	61	64	
	Excavator 2		5	200	64	60	63	
	Bobcats w/ Ram 1		5	185	68.6	65.6	68.6	
	Bobcats w/ Ram 2	5	192	68.3	65.3	68.3		

RCNM Construction Noise Level Calculation for Future 2022 Q2

Site	Building #	Equipment	Shielding Factors	Distance (feet)	L _{max}	L _{eq}	L ₁₀
		Bobcats w/ Bucket 1	5	176	69.1	66.1	69.1
		Bobcats w/ Bucket 2	5	200	68	64.9	67.9
		total			69.1	73.4	76.4
		Concrete Mixer Truck	5	151	64.4	60.4	63.4
		Concrete Mixer Truck	5	151	64.4	60.4	63.4
		Concrete Mixer Truck	5	151	64.4	60.4	63.4
		Concrete Mixer Truck	5	151	64.4	60.4	63.4
		Concrete Mixer Truck	5	151	64.4	60.4	63.4
		Concrete Mixer Truck	5	151	64.4	60.4	63.4
		Concrete Pump Truck	5	151	66.4	59.4	62.4
		Concrete Pump Truck	5	151	66.4	59.4	62.4
		Concrete Pump Truck	5	151	66.4	59.4	62.4
		Concrete Pump Truck	5	151	66.4	59.4	62.4
		Concrete Pump Truck	5	151	66.4	59.4	62.4
		Dump Truck	5	151	61.4	57.4	60.4
		Dump Truck	5	151	61.4	57.4	60.4
		Dump Truck	5	151	61.4	57.4	60.4
		Dump Truck	5	151	61.4	57.4	60.4
		total			66.4	70.8	73.8
		Sub-Total			69.1	75.3	78.3
		(R12) Buildings 5+ 6		Grand Total			69.1
B	5	Crane 1	5	105	69.6	61.6	64.6
		Crane 2	5	104	69.6	61.7	64.7
		Generator 1	5	195	64.2	61.2	64.2
		Generator 2	5	197	64.1	61.1	64.1
		Compressors Light 1	5	179	61.9	57.9	60.9
		Compressors Light 2	5	177	62	58	61
		Compressors Light 3	5	173	62.2	58.2	61.2
		Compressors Light 4	5	178	62	58	61
		Excavator 1	5	164	65.7	61.7	64.7
		Excavator 2	5	162	65.8	61.8	64.8
		Bobcats w/ Ram 1	5	173	69.2	66.2	69.2
		Bobcats w/ Ram 2	5	152	70.3	67.3	70.3
		Bobcats w/ Bucket 1	5	154	70.2	67.2	70.2
		Bobcats w/ Bucket 2	5	173	69.2	66.2	69.2
		total			70.3	74.8	77.8
		Concrete Mixer Truck	5	181	62.8	58.8	61.8
		Concrete Mixer Truck	5	181	62.8	58.8	61.8
		Concrete Mixer Truck	5	181	62.8	58.8	61.8
		Concrete Mixer Truck	5	181	62.8	58.8	61.8
		Concrete Pump Truck	5	181	64.8	57.8	60.8
		Concrete Pump Truck	5	181	64.8	57.8	60.8
		Concrete Pump Truck	5	181	64.8	57.8	60.8
		Dump Truck	5	181	59.8	55.8	58.8
		Dump Truck	5	181	59.8	55.8	58.8
		Dump Truck	5	181	59.8	55.8	58.8
		total			64.8	67.8	70.8
		Sub-Total			70.3	75.6	78.6
	6	Crane 1	5	201	63.9	56	59

RCNM Construction Noise Level Calculation for Future 2022 Q2

Site	Building #	Equipment	Shielding Factors	Distance (feet)	L _{max}	L _{eq}	L ₁₀		
		Crane 2	5	195	64.2	56.2	59.2		
		Generator 1	5	237	62.5	59.5	62.5		
		Generator 2	5	208	63.6	60.6	63.6		
		Compressors Light 1	5	263	58.6	54.6	57.6		
		Compressors Light 2	5	258	58.7	54.8	57.8		
		Compressors Light 3	5	235	59.6	55.6	58.6		
		Compressors Light 4	5	236	59.5	55.5	58.5		
		Excavator 1	5	185	64.6	60.7	63.7		
		Excavator 2	5	176	65.1	61.1	64.1		
		Bobcats w/ Ram 1	5	172	69.3	66.3	69.3		
		Bobcats w/ Ram 2	5	189	68.5	65.4	68.4		
		Bobcats w/ Bucket 1	5	168	69.5	66.5	69.5		
		Bobcats w/ Bucket 2	5	192	68.3	65.3	68.3		
		total				69.5	73.5	76.5	
		Concrete Mixer Truck	3	121	68.3	64.3	67.3		
		Concrete Mixer Truck	3	121	68.3	64.3	67.3		
		Concrete Mixer Truck	3	121	68.3	64.3	67.3		
		Concrete Mixer Truck	3	121	68.3	64.3	67.3		
		Concrete Mixer Truck	3	121	68.3	64.3	67.3		
		Concrete Pump Truck	3	121	70.3	63.3	66.3		
		Concrete Pump Truck	3	121	70.3	63.3	66.3		
		Concrete Pump Truck	3	121	70.3	63.3	66.3		
		Concrete Pump Truck	3	121	70.3	63.3	66.3		
		Concrete Pump Truck	3	121	70.3	63.3	66.3		
		Dump Truck	3	121	65.3	61.3	64.3		
		Dump Truck	3	121	65.3	61.3	64.3		
		Dump Truck	3	121	65.3	61.3	64.3		
		Dump Truck	3	121	65.3	61.3	64.3		
		total				70.3	74.7	77.7	
		Sub-Total				70.3	77.2	80.2	
		(B) Buildings 5+ 6		Grand Total			70.3	79.5	82.5
		F	7	Crane 1	5	125	68	60.1	63.1
				Crane 2	5	181	64.8	56.9	59.9
Rubber Tire Crane	5			68	73.3	65.4	68.4		
Conc. Pump	5			42	77.5	70.5	73.5		
Compressor	5			163	62.7	58.8	61.8		
total						77.5	72.3	75.3	
Concrete Mixer Truck	5			204	61.8	57.8	60.8		
Concrete Mixer Truck	5			204	61.8	57.8	60.8		
Concrete Mixer Truck	5			204	61.8	57.8	60.8		
Concrete Mixer Truck	5			204	61.8	57.8	60.8		
Concrete Pump Truck	5			204	63.8	56.8	59.8		
Concrete Pump Truck	5			204	63.8	56.8	59.8		
Concrete Pump Truck	5			204	63.8	56.8	59.8		
Concrete Pump Truck	5			204	63.8	56.8	59.8		
Dump Truck	5			204	58.8	54.8	57.8		
Dump Truck	5	204	58.8	54.8	57.8				
Dump Truck	5	204	58.8	54.8	57.8				

RCNM Construction Noise Level Calculation for Future 2022 Q2

Site	Building #	Equipment	Shielding Factors	Distance (feet)	L _{max}	L _{eq}	L ₁₀
		total			63.8	67.2	70.2
	(F) Building 7	Grand Total			77.5	73.5	76.5
G	5	Crane 1	5	292	60.7	52.7	55.7
		Crane 2	5	346	59.2	51.2	54.2
		Generator 1	5	278	61.1	58.1	61.1
		Generator 2	5	426	57.4	54.4	57.4
		Compressors Light 1	5	257	58.8	54.8	57.8
		Compressors Light 2	5	265	58.5	54.5	57.5
		Compressors Light 3	5	417	54.6	50.6	53.6
		Compressors Light 4	5	426	54.4	50.4	53.4
		Excavator 1	5	322	59.8	55.8	58.8
		Excavator 2	5	350	59.1	55.1	58.1
		Bobcats w/ Ram 1	5	336	63.5	60.4	63.4
		Bobcats w/ Ram 2	5	337	63.4	60.4	63.4
		Bobcats w/ Bucket 1	5	325	63.7	60.7	63.7
		Bobcats w/ Bucket 2	5	348	63.1	60.1	63.1
		total				63.7	68.6
	Concrete Mixer Truck	5	298	58.5	54.5	57.5	
	Concrete Mixer Truck	5	298	58.5	54.5	57.5	
	Concrete Mixer Truck	5	298	58.5	54.5	57.5	
	Concrete Mixer Truck	5	298	58.5	54.5	57.5	
	Concrete Pump Truck	5	298	60.5	53.5	56.5	
	Concrete Pump Truck	5	298	60.5	53.5	56.5	
	Concrete Pump Truck	5	298	60.5	53.5	56.5	
	Dump Truck	5	298	55.5	51.5	54.5	
	Dump Truck	5	298	55.5	51.5	54.5	
	Dump Truck	5	298	55.5	51.5	54.5	
	total				60.5	63.5	66.5
	Sub-Total				63.7	69.8	72.8
	6	Crane 1	5	339	59.4	51.4	54.4
		Crane 2	5	384	58.3	50.3	53.3
		Generator 1	5	296	60.6	57.5	60.5
Generator 2		5	430	57.3	54.3	57.3	
Compressors Light 1		5	308	57.2	53.2	56.2	
Compressors Light 2		5	313	57.1	53.1	56.1	
Compressors Light 3		5	445	54	50	53	
Compressors Light 4		5	452	53.9	49.9	52.9	
Excavator 1		5	300	60.4	56.5	59.5	
Excavator 2		5	327	59.7	55.7	58.7	
Bobcats w/ Ram 1		5	304	64.3	61.3	64.3	
Bobcats w/ Ram 2		5	324	63.8	60.8	63.8	
Bobcats w/ Bucket 1		5	313	64.1	61.1	64.1	
Bobcats w/ Bucket 2		5	314	64	61	64	
total					64.3	68.8	71.8
Concrete Mixer Truck	5	286	58.9	54.9	57.9		
Concrete Mixer Truck	5	286	58.9	54.9	57.9		
Concrete Mixer Truck	5	286	58.9	54.9	57.9		
Concrete Mixer Truck	5	286	58.9	54.9	57.9		

RCNM Construction Noise Level Calculation for Future 2022 Q2

Site	Building #	Equipment	Shielding Factors	Distance (feet)	L _{max}	L _{eq}	L ₁₀		
		Concrete Mixer Truck	5	286	58.9	54.9	57.9		
		Concrete Pump Truck	5	286	60.9	53.9	56.9		
		Concrete Pump Truck	5	286	60.9	53.9	56.9		
		Concrete Pump Truck	5	286	60.9	53.9	56.9		
		Concrete Pump Truck	5	286	60.9	53.9	56.9		
		Concrete Pump Truck	5	286	60.9	53.9	56.9		
		Dump Truck	5	286	55.9	51.9	54.9		
		Dump Truck	5	286	55.9	51.9	54.9		
		Dump Truck	5	286	55.9	51.9	54.9		
		Dump Truck	5	286	55.9	51.9	54.9		
		total				60.9	65.3	68.3	
	Sub-Total				64.3	70.4	73.4		
	7	Crane 1	5	171	65.3	57.4	60.4		
		Crane 2	5	157	66.1	58.1	61.1		
		Rubber Tire Crane	5	251	62	54	57		
		Conc. Pump	5	223	63	56	59		
		Compressor	5	92	67.7	63.7	66.7		
		total				67.7	66.2	69.2	
		Concrete Mixer Truck	3	114	68.8	64.9	67.9		
		Concrete Mixer Truck	3	114	68.8	64.9	67.9		
		Concrete Mixer Truck	3	114	68.8	64.9	67.9		
Concrete Mixer Truck		3	114	68.8	64.9	67.9			
Concrete Pump Truck		3	114	70.8	63.9	66.9			
Concrete Pump Truck		3	114	70.8	63.9	66.9			
Concrete Pump Truck		3	114	70.8	63.9	66.9			
Concrete Pump Truck		3	114	70.8	63.9	66.9			
Dump Truck		3	114	65.8	61.9	64.9			
Dump Truck	3	114	65.8	61.9	64.9				
Dump Truck	3	114	65.8	61.9	64.9				
total				70.8	74.2	77.2			
Sub-Total				70.8	74.8	77.8			
(G) Buildings 5+6+ 7		Grand Total			70.8	77.1	80.1		
H	5	Crane 1	5	176	65.1	57.1	60.1		
		Crane 2	5	121	68.3	60.4	63.4		
		Generator 1	5	240	62.4	59.4	62.4		
		Generator 2	5	99	70.1	67.1	70.1		
		Compressors Light 1	5	244	59.2	55.3	58.3		
		Compressors Light 2	5	236	59.5	55.5	58.5		
		Compressors Light 3	5	79	69	65	68		
		Compressors Light 4	5	73	69.7	65.7	68.7		
		Excavator 1	5	180	64.9	60.9	63.9		
		Excavator 2	5	150	66.5	62.5	65.5		
		Bobcats w/ Ram 1	5	173	69.2	66.2	69.2		
		Bobcats w/ Ram 2	5	157	70.1	67.1	70.1		
		Bobcats w/ Bucket 1	5	162	69.8	66.8	69.8		
		Bobcats w/ Bucket 2	5	169	69.4	66.4	69.4		
		total				70.1	75.6	78.6	
				Concrete Mixer Truck	5	213	61.4	57.4	60.4

RCNM Construction Noise Level Calculation for Future 2022 Q2

Site	Building #	Equipment	Shielding Factors	Distance (feet)	L _{max}	L _{eq}	L ₁₀		
		Concrete Mixer Truck	5	213	61.4	57.4	60.4		
		Concrete Mixer Truck	5	213	61.4	57.4	60.4		
		Concrete Mixer Truck	5	213	61.4	57.4	60.4		
		Concrete Pump Truck	5	213	63.4	56.4	59.4		
		Concrete Pump Truck	5	213	63.4	56.4	59.4		
		Concrete Pump Truck	5	213	63.4	56.4	59.4		
		Dump Truck	5	213	58.4	54.4	57.4		
		Dump Truck	5	213	58.4	54.4	57.4		
		Dump Truck	5	213	58.4	54.4	57.4		
				total			63.4	66.4	69.4
(H) Building 5		Grand Total			70.1	76.1	79.1		
I	6	Crane 1	5	161	65.8	57.9	60.9		
		Crane 2	5	108	69.3	61.4	64.4		
		Generator 1	5	233	62.6	59.6	62.6		
		Generator 2	5	61	74.3	71.3	74.3		
		Compressors Light 1	5	249	59.1	55.1	58.1		
		Compressors Light 2	5	240	59.4	55.4	58.4		
		Compressors Light 3	5	80	68.9	64.9	67.9		
		Compressors Light 4	5	74	69.6	65.6	68.6		
		Excavator 1	5	187	64.5	60.6	63.6		
		Excavator 2	5	155	66.2	62.2	65.2		
		Bobcats w/ Ram 1	5	175	69.1	66.1	69.1		
		Bobcats w/ Ram 2	5	167	69.5	66.5	69.5		
		Bobcats w/ Bucket 1	5	180	68.9	65.9	68.9		
		Bobcats w/ Bucket 2	5	163	69.7	66.7	69.7		
				total			74.3	76.4	79.4
				Concrete Mixer Truck	5	175	63.1	59.1	62.1
				Concrete Mixer Truck	5	175	63.1	59.1	62.1
				Concrete Mixer Truck	5	175	63.1	59.1	62.1
				Concrete Mixer Truck	5	175	63.1	59.1	62.1
				Concrete Mixer Truck	5	175	63.1	59.1	62.1
				Concrete Pump Truck	5	175	65.1	58.1	61.1
				Concrete Pump Truck	5	175	65.1	58.1	61.1
				Concrete Pump Truck	5	175	65.1	58.1	61.1
				Concrete Pump Truck	5	175	65.1	58.1	61.1
				Concrete Pump Truck	5	175	65.1	58.1	61.1
				Dump Truck	5	175	60.1	56.1	59.1
				Dump Truck	5	175	60.1	56.1	59.1
				Dump Truck	5	175	60.1	56.1	59.1
		Dump Truck	5	175	60.1	56.1	59.1		
		total			65.1	69.5	72.5		
(I) Building 6		Grand Total			74.3	77.2	80.2		

Predicted Existing and Future 2022 Quarter 2 Construction Noise Levels

Predicted Existing and Future 2022 Q2 Construction Noise Levels

NOISE RECEPTOR NUMBER	TRAFFIC NOISE											FROM CONSTRUCTION NOISE			2022-Q2		2022-Q2	
	TNM EXISTING (2013) Leq(H)	Measure d Existing	TNM NO-ACTION (2022) Leq(H)	TNM BUILD ALTERNATIVE BUILD TOTAL CONST. (2022) Leq(H)	Measure d Existing minus Modeled Existing	Delta Existing (upper floors)	Adjuste d Existing (2013)	Delta No Action (upper floors)	Adjuste d NO-ACTION (2022) Leq(H)	Delta Build (upper floors)	Adjuste d Build Total Const. (2022) Leq(H)	L _{max}	Leq(H)	L ₁₀	Total Leq	Build minus Existing Change	Total Leq	Build minus No Build Change
R4-GroundFL	70.3	73.1	70.5	72.5	2.8		73.1		73.3		75.3	62.6	68.3	71.3	76.1	3.0	76.1	2.8
R4-25FL	69.4		69.6	71.8		-0.9	72.2	-0.9	72.4	-0.7	74.6	61.9	67.6	70.6	75.4	3.2	75.4	3.0
R4-50FL	68.8		69	71.2		-0.6	71.6	-0.6	71.8	-0.6	74	61.3	67.0	70.0	74.8	3.2	74.8	3.0
R5-GroundFL	64.6	73.2	65.1	64.6	8.6		73.2		73.7		73.2	69.7	65.9	68.9	73.9	0.7	73.9	0.2
R5-25FL	64.2		64.7	64.6		-0.4	72.8	-0.4	73.3	0	73.2	69.7	65.9	68.9	73.9	1.1	73.9	0.6
R5-50FL	63.7		64.1	64.2		-0.5	72.3	-0.6	72.7	-0.4	72.8	69.2	65.5	68.5	73.5	1.2	73.5	0.8
R6-GroundFL	67	72.2	67.2	69.6	5.2		72.2		72.4		74.8	67.3	77.1	80.1	79.1	6.9	79.1	6.7
R6-13FL	67.4		67.6	70		0.4	72.6	0.4	72.8	0.4	75.2	67.7	77.5	80.5	79.5	6.9	79.5	6.7
R6-26FL	66.9		67.1	69.4		-0.5	72.1	-0.5	72.3	-0.6	74.6	67.1	76.9	79.9	78.9	6.8	78.9	6.6
R11-GroundFL	59.8	68	59.9	65.3	8.2		68.0		68.1		73.5	74.3	79.1	82.1	80.1	12.1	80.1	12.0
R11-20FL	63.9		64	67.2		4.1	72.1	4.1	72.2	1.9	75.4	76.2	81.0	84.0	82.0	9.9	82.0	9.8
R11-40FL	63.3		63.4	66.8		-0.6	71.5	-0.6	71.6	-0.4	75.0	75.8	80.6	83.6	81.6	10.1	81.6	10.0
R12-GroundFL	61.3	68.2	61.5	67.2	6.9		68.2		68.4		74.1	69.1	77.2	80.2	78.9	10.7	78.9	10.5
R13-GroundFL	64.8	70.8	65	65.8	6		70.8		71		71.8	69.1	74.8	77.8	76.5	5.7	76.5	5.5
R13-19FL	64.9		65.1	66.2		0.1	70.9	0.1	71.1	0.4	72.2	69.5	75.2	78.2	76.9	6.0	76.9	5.8
R13-38FL	64.7		64.8	66		-0.2	70.7	-0.3	70.8	-0.2	72.0	69.3	75.0	78.0	76.7	6.0	76.7	5.9
A-GroundFL	65.6	72.2	65.8	66.6	6.6		72.2		72.4		73.2	68.5	74.9	77.9	77.1	4.9	77.1	4.7
A-13FL	66.5		66.7	67.7		0.9	73.1	0.9	73.3	1.1	74.3	69.6	76.0	79.0	78.2	5.1	78.2	4.9
A-26FL	66.1		66.2	67.3		-0.4	72.7	-0.5	72.8	-0.4	73.9	69.2	75.6	78.6	77.8	5.1	77.8	5.0
B-GroundFL	62.4	68.2	62.6	68.2	5.8		68.2		68.4		74	70.3	79.5	82.5	80.5	12.3	80.5	12.1

Predicted Existing and Future 2022 Q2 Construction Noise Levels

NOISE RECEPTOR NUMBER	TRAFFIC NOISE											FROM CONSTRUCTION NOISE			2022-Q2		2022-Q2	
	TNM EXISTING Leq(H)	Measure d Existing	TNM NO-ACTION (2022) Leq(H)	TNM BUILD ALTERNATIVE BUILD TOTAL CONST. (2022) Leq(H)	Measure d Existing minus Modeled Existing	Delta Existing (upper floors)	Adjuste d Existing (2013)	Delta No Action (upper floors)	Adjuste d NO-ACTION (2022) Leq(H)	Delta Build (upper floors)	Adjuste d Build Total Const. (2022) Leq(H)	L _{max}	Leq(H)	L ₁₀	Total Leq	Build minus Existing Change	Total Leq	Build minus No Build Change
C-GroundFL	66.1	72.2	66.3	67.3	6.1		72.2		72.4		73.4	70.6	76.4	79.4	78.1	5.9	78.1	5.7
D-GroundFL	64.3	72.2	64.6	65.6	7.9		72.2		72.5		73.5	75.5	79.6	82.6	80.6	8.4	80.6	8.1
E-GroundFL	65.6	73.2	66.1	65.9	7.6		73.2		73.7		73.5	66.8	70.3	73.3	75.2	2.0	75.2	1.5
E-25FL	65.2		65.6	65.8		-0.4	72.8	-0.5	73.2	-0.1	73.4	66.7	70.2	73.2	75.1	2.3	75.1	1.9
E-50FL	64.4		64.9	65.1		-0.8	72	-0.7	72.5	-0.7	72.7	66.0	69.5	72.5	74.4	2.4	74.4	1.9
F-GroundFL	54.4	73.2	54.8	56.9	18.8		73.2		73.6		75.7	77.5	73.5	76.5	77.7	4.5	77.7	4.1
F-25FL	57.2		57.5	59.3		2.8	76	2.7	76.3	2.4	78.1	79.9	75.9	78.9	80.1	4.1	80.1	3.8
F-50FL	56.8		57.2	59		-0.4	75.6	-0.3	76.0	-0.3	77.8	79.6	75.6	78.6	79.8	4.2	79.8	3.8
G-GroundFL	61.2	72.2	61.4	66.3	11		72.2		72.4		77.3	70.8	77.1	80.1	80.2	8.0	80.2	7.8
G-13FL	62.2		62.4	66.8		1	73.2	1.0	73.4	0.5	77.8	71.3	77.6	80.6	80.7	7.5	80.7	7.3
G-26FL	62		62.1	66.5		-0.2	73.0	-0.3	73.1	-0.3	77.5	71.0	77.3	80.3	80.4	7.4	80.4	7.3
H-Ground Level	45.0	64.0	45.0	45.0	0		64.0		64.0		64.0	70.1	76.1	79.1	76.4	12.4	76.3	12.4
H-25th Fl	46.0		46.0	47.0		1.0	65.0	1.0	65.0	2.0	65.0	72.1	78.1	81.1	78.3	13.3	78.3	13.3
H-50th Fl	47.0		47.0	47.0		1.0	65.0	1.0	65.0	0.0	64.0	72.1	78.1	81.1	78.3	13.3	78.3	13.3
I-Ground Level	43.0	64.0	43.0	49.0			64.0		64.0		70.0	74.3	77.2	80.2	78.0	14.0	78.0	14.0
I-5th FL	54.0		55.0	58.0		1.0	65.0	2.0	66.0	1.0	71.0	75.3	78.2	81.2	79.0	14.0	79.0	13.0
I-10th Fl	56.0		57.0	60.0		2.0	67.0	2.0	68.0	0.0	71.0	75.3	78.2	81.2	79.0	12.0	79.0	11.0