

APPENDIX 4.4

Acoustic Analysis Data

Project Name
On-Site Noise Contours
Existing Conditions

ROADWAY NAME Segment	Number of Lanes in Each Direction	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor (1)	Vehicle Mix		Distance from			
						Medium Trucks	Heavy Trucks	CNEL at 75 Feet	DIS		
									75 CNEL		
ROADWAY NAME											
Brand, north of Broadway	3	0	14,660	35	0.5	1.8%	0.7%	63.7	-		
Brand, between Broadway and Harvard	3	0	14,770	35	0.5	1.8%	0.7%	63.8	-		
Brand, south of Harvard	3	0	15,360	35	0.5	1.8%	0.7%	63.9	-		
Maryland, north of Broadway	1	0	2,350	25	0.5	1.8%	0.7%	52.7	-		
Maryland, between Broadway and Harvard	1	0	2,990	25	0.5	1.8%	0.7%	53.8	-		
Louise, north of Broadway	1	0	4,950	25	0.5	1.8%	0.7%	56.0	-		
Louise, between Broadway and Harvard	1	0	4,310	25	0.5	1.8%	0.7%	55.4	-		
Louise, south of Harvard	1	0	4,000	25	0.5	1.8%	0.7%	55.0	-		
Broadway, west of Brand	2	0	13,410	35	0.5	1.8%	0.7%	63.3	-		
Broadway, between Brand and Maryland	2	0	12,110	35	0.5	1.8%	0.7%	62.9	-		
Broadway, between Maryland and Louise	2	0	13,260	35	0.5	1.8%	0.7%	63.3	-		
Broadway, east of Louise	2	0	13,090	35	0.5	1.8%	0.7%	63.2	-		
Harvard, between Brand and Maryland	1	0	2,480	25	0.5	1.8%	0.7%	53.0	-		
Harvard, between Maryland and Louise	1	0	4,050	25	0.5	1.8%	0.7%	55.1	-		
Harvard, east of Louise	1	0	4,030	25	0.5	1.8%	0.7%	55.1	-		

Notes:

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site, such as asphalt. An alpha factor of 1 indicates an acoustically "soft" site such as heavily vegetated ground cover.

"-" = contour is located within the roadway lanes or within 75 feet of the roadway centerline.

Noise levels and distances to contours do not assume any natural or constructed barriers that may attenuate noise.

Assumed 24-Hour Traffic Distribution:

	Day	Evening	Night	Total
Total ADT Volumes	77.70%	12.70%	9.60%	100.00%
Medium-Duty Trucks	87.43%	5.05%	7.52%	100.00%
Heavy-Duty Trucks	89.10%	2.84%	8.06%	100.00%

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							Medium Trucks	Heavy Trucks	CNEL at 75 Feet	DIS	
										75 CNEL	
ROADWAY NAME											
Brand, north of Broadway		3	0	14,790	35	0.5	1.8%	0.7%	63.8	-	
Brand, between Broadway and Harvard		3	0	14,770	35	0.5	1.8%	0.7%	63.8	-	
Brand, south of Harvard		3	0	15,620	35	0.5	1.8%	0.7%	64.0	-	
Maryland, north of Broadway		1	0	2,760	25	0.5	1.8%	0.7%	53.4	-	
Maryland, between Broadway and Harvard		1	0	3,550	25	0.5	1.8%	0.7%	54.5	-	
Louise, north of Broadway		1	0	4,950	25	0.5	1.8%	0.7%	56.0	-	
Louise, between Broadway and Harvard		1	0	4,310	25	0.5	1.8%	0.7%	55.4	-	
Louise, south of Harvard		1	0	4,030	25	0.5	1.8%	0.7%	55.1	-	
Broadway, west of Brand		2	0	13,740	35	0.5	1.8%	0.7%	63.4	-	
Broadway, between Brand and Maryland		2	0	12,640	35	0.5	1.8%	0.7%	63.1	-	
Broadway, between Maryland and Louise		2	0	13,630	35	0.5	1.8%	0.7%	63.4	-	
Broadway, east of Louise		2	0	13,740	35	0.5	1.8%	0.7%	63.4	-	
Harvard, between Brand and Maryland		1	0	2,870	25	0.5	1.8%	0.7%	53.6	-	
Harvard, between Maryland and Louise		1	0	4,460	25	0.5	1.8%	0.7%	55.5	-	
Harvard, east of Louise		1	0	4,600	25	0.5	1.8%	0.7%	55.7	-	

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						Medium Trucks	Heavy Trucks	CNEL at 75 Feet	DIS	
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ROADWAY NAME										
Brand, north of Broadway	3	0	16,020	35	0.5	1.8%	0.7%	64.1	-	
Brand, between Broadway and Harvard	3	0	15,940	35	0.5	1.8%	0.7%	64.1	-	
Brand, south of Harvard	3	0	17,140	35	0.5	1.8%	0.7%	64.4	-	
Maryland, north of Broadway	1	0	2,830	25	0.5	1.8%	0.7%	53.5	-	
Maryland, between Broadway and Harvard	1	0	3,620	25	0.5	1.8%	0.7%	54.6	-	
Louise, north of Broadway	1	0	5,050	25	0.5	1.8%	0.7%	56.1	-	
Louise, between Broadway and Harvard	1	0	4,520	25	0.5	1.8%	0.7%	55.6	-	
Louise, south of Harvard	1	0	4,170	25	0.5	1.8%	0.7%	55.2	-	
Broadway, west of Brand	2	0	14,790	35	0.5	1.8%	0.7%	63.8	-	
Broadway, between Brand and Maryland	2	0	13,720	35	0.5	1.8%	0.7%	63.4	-	
Broadway, between Maryland and Louise	2	0	14,830	35	0.5	1.8%	0.7%	63.8	-	
Broadway, east of Louise	2	0	14,880	35	0.5	1.8%	0.7%	63.8	-	
Harvard, between Brand and Maryland	1	0	3,220	25	0.5	1.8%	0.7%	54.1	-	
Harvard, between Maryland and Louise	1	0	5,200	25	0.5	1.8%	0.7%	56.2	-	
Harvard, east of Louise	1	0	5,170	25	0.5	1.8%	0.7%	56.2	-	

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