



APPENDIX F

NOISE MODELING RESULTS



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TABLE Existing (2020)-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020
ROADWAY SEGMENT: Main Street north of Almond Avenue
NOTES: Orange Medical Office Building - Existing (2020)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31000 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 40 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.09

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
72.2	135.6	281.9	602.5

TABLE Existing (2020)-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020
ROADWAY SEGMENT: Main Street between Almond Avenue and Palmyra Avenue
NOTES: Orange Medical Office Building - Existing (2020)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31000 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 40 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.09

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
72.2	135.6	281.9	602.5

TABLE Existing (2020)-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020

ROADWAY SEGMENT: Main Street between Palmyra Avenue and Culver Avenue-
Stewart Drive

NOTES: Orange Medical Office Building - Existing (2020)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31000 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 40 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.09

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
72.2	135.6	281.9	602.5

TABLE Existing (2020)-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020

ROADWAY SEGMENT: Main Street between Culver Avenue-Stewart Drive and La Veta Avenue

NOTES: Orange Medical Office Building - Existing (2020)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31000 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 40 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.09

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
72.2	135.6	281.9	602.5

TABLE Existing (2020)-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020
ROADWAY SEGMENT: Main Street south of La Veta Avenue
NOTES: Orange Medical Office Building - Existing (2020)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31000 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 40 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.09

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
72.2	135.6	281.9	602.5

TABLE Existing (2020)-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020
ROADWAY SEGMENT: La Veta Avenue west of Main Street
NOTES: Orange Medical Office Building - Existing (2020)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 21000 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.53

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	85.9	175.9	374.5

TABLE Existing (2020)-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020
ROADWAY SEGMENT: La Veta Avenue east of Main Street
NOTES: Orange Medical Office Building - Existing (2020)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 26000 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.46

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	97.5	202.0	431.4

TABLE Existing With Project (2021)-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020
ROADWAY SEGMENT: Main Street north of Almond Avenue
NOTES: Orange Medical Office Building - Existing With Project (2021)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 32608 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 40 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.31

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
74.0	139.9	291.4	623.1

TABLE Existing With Project (2021)-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020

ROADWAY SEGMENT: Main Street between Almond Avenue and Palmyra Avenue

NOTES: Orange Medical Office Building - Existing With Project (2021)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 32608 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 40 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.31

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
74.0	139.9	291.4	623.1

TABLE Existing With Project (2021)-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020

ROADWAY SEGMENT: Main Street between Palmyra Avenue and Culver Avenue-
Stewart Drive

NOTES: Orange Medical Office Building - Existing With Project (2021)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 33613 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 40 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.45

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
75.0	142.5	297.3	635.8

TABLE Existing With Project (2021)-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020

ROADWAY SEGMENT: Main Street between Culver Avenue-Stewart Drive and La Veta Avenue

NOTES: Orange Medical Office Building - Existing With Project (2021)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 33411 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 40 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.42

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
74.8	142.0	296.1	633.2

TABLE Existing With Project (2021)-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020
ROADWAY SEGMENT: Main Street south of La Veta Avenue
NOTES: Orange Medical Office Building - Existing With Project (2021)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 32808 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 40 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.34

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
74.2	140.4	292.6	625.6

TABLE Existing With Project (2021)-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020
ROADWAY SEGMENT: La Veta Avenue west of Main Street
NOTES: Orange Medical Office Building - Existing With Project (2021)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 21000 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.53

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	85.9	175.9	374.5

TABLE Existing With Project (2021)-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/09/2020
ROADWAY SEGMENT: La Veta Avenue east of Main Street
NOTES: Orange Medical Office Building - Existing With Project (2021)

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 26603 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.56

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	98.9	205.1	438.0
