

APPENDIX C

REPORT ON AMBIENT NOISE SURVEY

Site 1

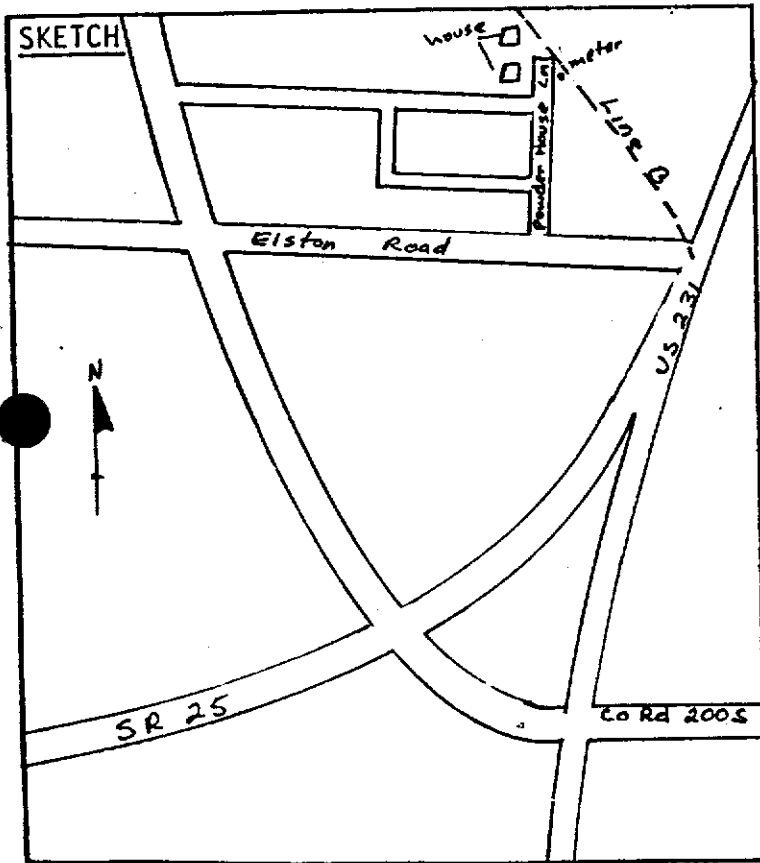
PROJECT: US 231 Relocation ROUTE: Powder House Lane

DAY OF WEEK: Thursday DATE: August 21, 1986

TIME BEGAN: 8:26 am TIME FINISH: 8:36 am

WEATHER, SKY: Clear, 60° WIND: 2-5 mph

SURVEY SITE LOCATION: The site was located at the end of Powder House Lane where the proposed Line B crosses.



HEIGHT OF INSTRUMENT 5 feet

OBSERVED TRAFFIC — CARS — TRUCKS

ESTIMATED OPERATING SPEED —

DURATION OF SURVEY 10 minutes

OBSERVED Leq 56.6

COMPUTER PREDICTED Leq —

AMBIENT NOISE LEVELS TAKEN BY:

David Felix & Brenda Fox

DIVISION OF LOCATION AND ENVIRONMENT
INDIANA DEPARTMENT OF HIGHWAYS

UNUSUAL SITE OR TRAFFIC CONDITIONS airplanes overhead, birds chirping

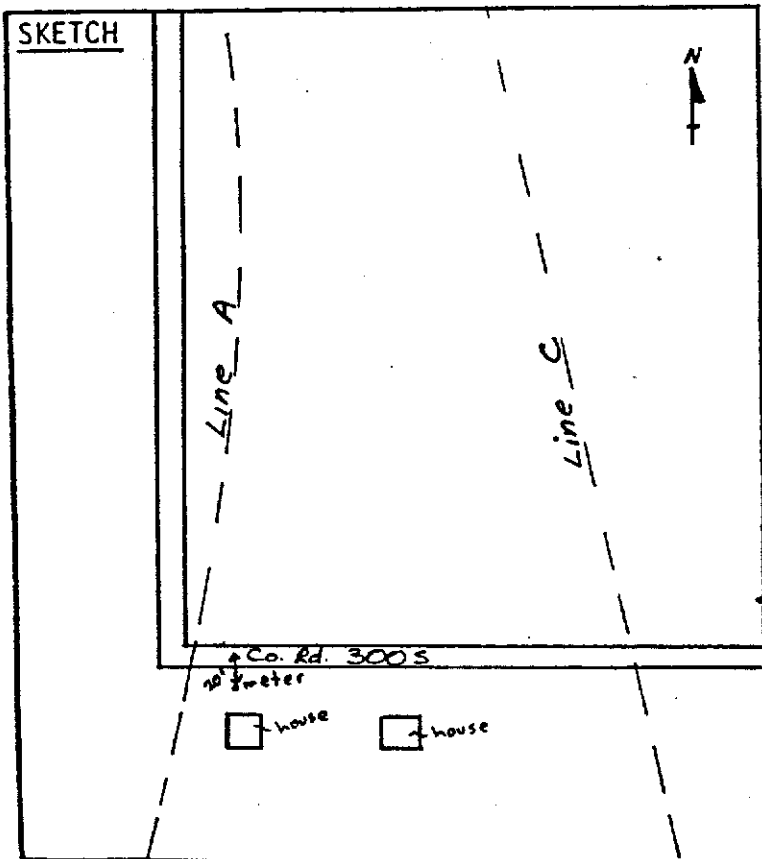
COMPUTER PRINTOUT

(note that observed traffic has been adjusted to an hourly volume)

REPORT ON AMBIENT NOISE SURVEY

Site 2

PROJECT: US 231 Relocation ROUTE: County Road 300S
 DAY OF WEEK: Thursday DATE: August 21, 1986
 TIME BEGAN: 8:55 am TIME FINISH: 9:05 am
 WEATHER, SKY: clear, 65° WIND: 2-5 mph
 SURVEY SITE LOCATION: This site was located near the 90° turn on County Road 300S near the proposed alignment of Line A.



HEIGHT OF INSTRUMENT 5 feet
 OBSERVED TRAFFIC 1 CARS — TRUCKS
 ESTIMATED OPERATING SPEED 20 mph
 DURATION OF SURVEY 10 minutes
 OBSERVED Leq 54.0 dBA
 COMPUTER PREDICTED Leq 43.3 dBA

AMBIENT NOISE LEVELS TAKEN BY:

David Felix & Brenda Fox

DIVISION OF LOCATION AND ENVIRONMENT
 INDIANA DEPARTMENT OF HIGHWAYS

UNUSUAL SITE OR TRAFFIC CONDITIONS crickets

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	6.	30.
HT	0.	30.

-----COORDINATES-----

X	Y	Z	GRADE
-5000.	0.	0.	0
5000.	0.	0.	0

COMPUTER PRINTOUT

(note that observed traffic has been adjusted to an hourly volume)

-----COORDINATES-----		
X	Y	Z
0.	20.	5.

ALPHA FACTORS

1 + 0.5
 RECEIVER | LEq(H) | L10

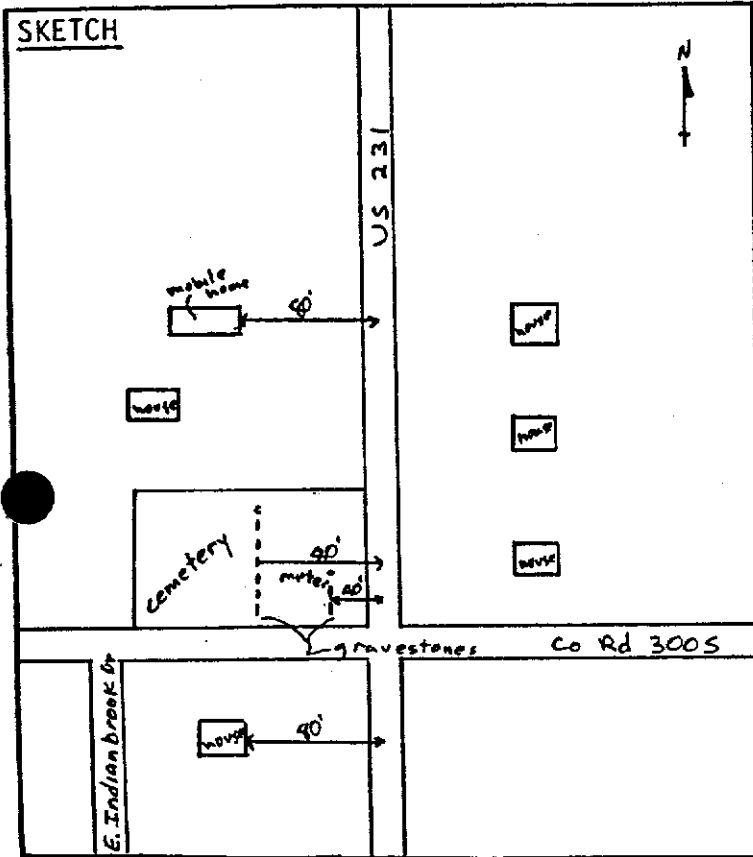
PROJECT: US 231 Relocation ROUTE: US 231

DAY OF WEEK: Thursday DATE: August 21, 1986

TIME BEGAN: 9:12 am TIME FINISH: 9:27 am

WEATHER, SKY: clear, 68° WIND: 2-5 mph

SURVEY SITE LOCATION: This site was located west of US 231 and north of County Road 300S in a cemetery at 2nd row of gravestones.



HEIGHT OF INSTRUMENT 5 feet

OBSERVED TRAFFIC 129 CARS 15 TRUCKS

ESTIMATED OPERATING SPEED 55 mph

DURATION OF SURVEY 15 minutes

OBSERVED Leq 70.7 dBA

COMPUTER PREDICTED Leq 68.3 dBA

AMBIENT NOISE LEVELS TAKEN BY:

David Felix & Brenda Fox

DIVISION OF LOCATION AND ENVIRONMENT
INDIANA DEPARTMENT OF HIGHWAYS

UNUSUAL SITE OR TRAFFIC CONDITIONS airplane

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	516.	55.
HT	60.	55.

-----COORDINATES-----

X	Y	Z	GRADE
-5000.	0.	0.	0
5000.	0.	0.	0

COMPUTER PRINTOUT

(note that observed traffic has been adjusted to an hourly volume)

-----COORDINATES-----

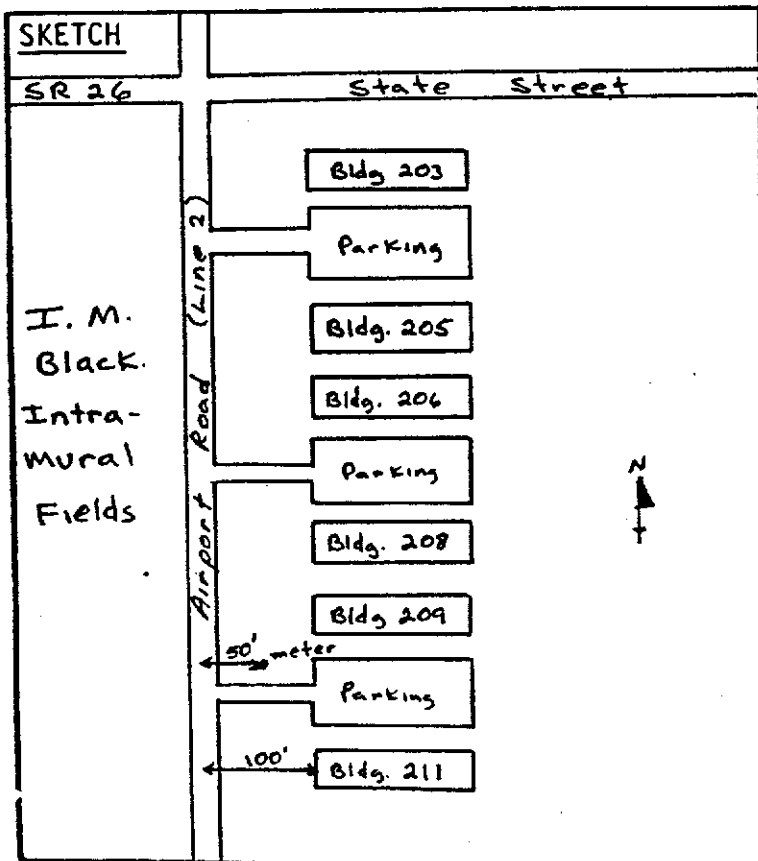
X	Y	Z
0.	80.	5.

ALPHA FACTORS

1 * 0.5

RECEIVER	LEQ(H)	L10
R1	68.3	71.6

PROJECT: US 231 Relocation ROUTE: Airport Road
 DAY OF WEEK: Thursday DATE: August 21, 1986
 TIME BEGAN: 9:56 am TIME FINISH: 10:11 am
 WEATHER, SKY: clear, 73° WIND: 2-5 mph
 SURVEY SITE LOCATION: This site was located on the eastside of Airport Road in the married student housing



HEIGHT OF INSTRUMENT 5 feet
 OBSERVED TRAFFIC 43 CARS 1 TRUCKS
 ESTIMATED OPERATING SPEED 35 mph
 DURATION OF SURVEY 15 minutes
 OBSERVED Leq 62.5 dBA
 COMPUTER PREDICTED Leq 58.2 dBA

AMBIENT NOISE LEVELS TAKEN BY:

David Felix & Brenda Fox
 DIVISION OF LOCATION AND ENVIRONMENT
 INDIANA DEPARTMENT OF HIGHWAYS

UNUSUAL SITE OR TRAFFIC CONDITIONS garbage truck, children playing, airplanes

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	172.	35.
HT	4.	35.

-----COORDINATES-----

X	Y	Z	GRADE
-5000.	0.	0.	0
5000.	0.	0.	0

COMPUTER PRINTOUT

(note that observed traffic has been adjusted to an hourly volume)

-----COORDINATES-----

X	Y	Z
0.	50.	5.

ALPHA FACTORS

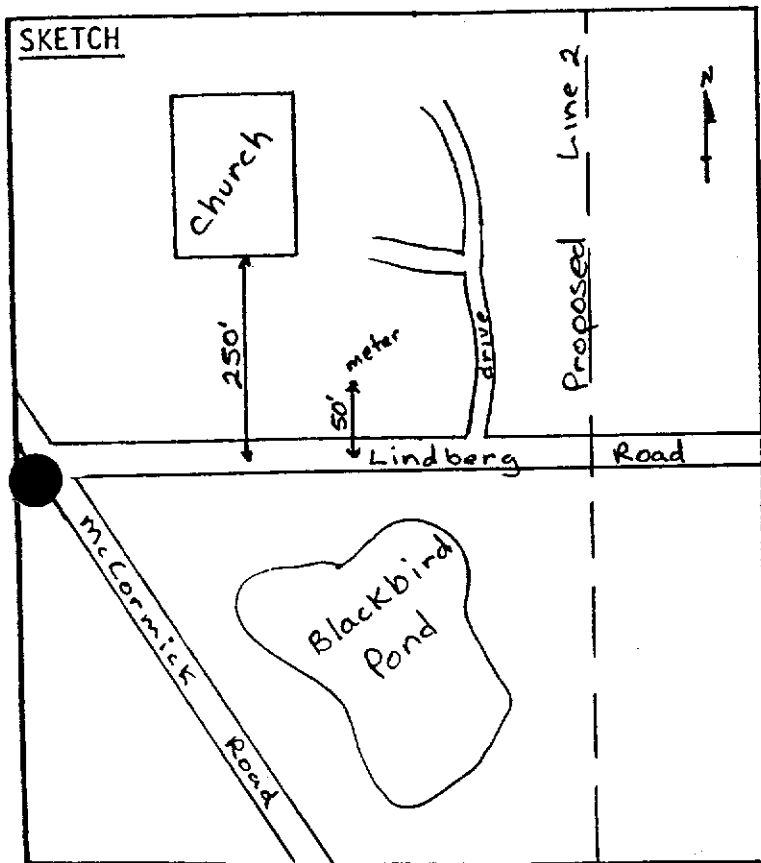
1 ± 0.5

RECEIVER	LEQ(H)	L10
R1	58.2	60.1

REPORT ON AMBIENT NOISE SURVEY

Site 5

PROJECT: US 231 Relocation ROUTE: Lindberg Road
 DAY OF WEEK: Thursday DATE: August 21, 1986
 TIME BEGAN: 10:25 am TIME FINISH: 10:40 am
 WEATHER, SKY: clear, 75° WIND: 2-5 mph
 SURVEY SITE LOCATION: This site was located on the northside of Lindberg Road in the front yard of the West Lafayette Christian Church.



HEIGHT OF INSTRUMENT 5 feet
 OBSERVED TRAFFIC 47 CARS 1 TRUCKS
 ESTIMATED OPERATING SPEED 45 mph
 DURATION OF SURVEY 15 minutes
 OBSERVED Leq 62.7 dBA
 COMPUTER PREDICTED Leq 60.7 dBA

AMBIENT NOISE LEVELS TAKEN BY:

David Felix & Brenda Fox
 DIVISION OF LOCATION AND ENVIRONMENT
 INDIANA DEPARTMENT OF HIGHWAYS

UNUSUAL SITE OR TRAFFIC CONDITIONS _____

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	189.	45.
HT	4.	45.

-----COORDINATES-----			
X	Y	Z	GRADE
-5000.	0.	0.	0.
5000.	0.	0.	0.

-----COORDINATES-----		
X	Y	Z
0.	50.	5.

ALPHA FACTORS

RECEIVER	LEQ(H)	L10
R1	60.7	62.7

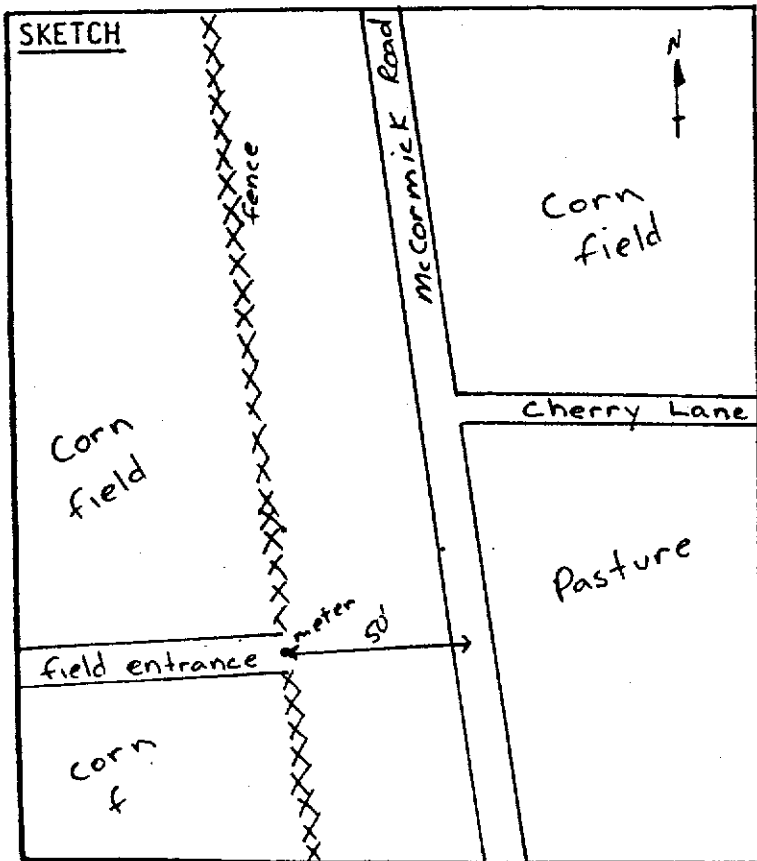
COMPUTER PRINTOUT

(note that observed traffic has been adjusted to an hourly volume)

REPORT ON AMBIENT NOISE SURVEY

Site 6

PROJECT: US 231 Relocation ROUTE: McCormick Road
 DAY OF WEEK: Thursday DATE: August 21, 1986
 TIME BEGAN: 10:48 am TIME FINISH: 10:58 am
 WEATHER, SKY: clear, 75° WIND: 2-5 mph
 SURVEY SITE LOCATION: This site was located west of McCormick Road in a farm field entrance at the right-of-way line.



HEIGHT OF INSTRUMENT 5 feet
 OBSERVED TRAFFIC 16 CARS 1 TRUCKS
 ESTIMATED OPERATING SPEED 40 mph
 DURATION OF SURVEY 10 minutes
 OBSERVED Leq 62.5 dBA
 COMPUTER PREDICTED Leq 59.5 dBA

AMBIENT NOISE LEVELS TAKEN BY:

David Felix & Brenda Fox

DIVISION OF LOCATION AND ENVIRONMENT
 INDIANA DEPARTMENT OF HIGHWAYS

UNUSUAL SITE OR TRAFFIC CONDITIONS

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	96	40
HT	6	40

-----COORDINATES-----

X	Y	Z	GRADE
-5000	0	0	0
5000	0	0	0

COMPUTER PRINTOUT

(note that observed traffic has been adjusted to an hourly volume)

-----COORDINATES-----

X	Y	Z
0	50	5

ALPHA FACTORS

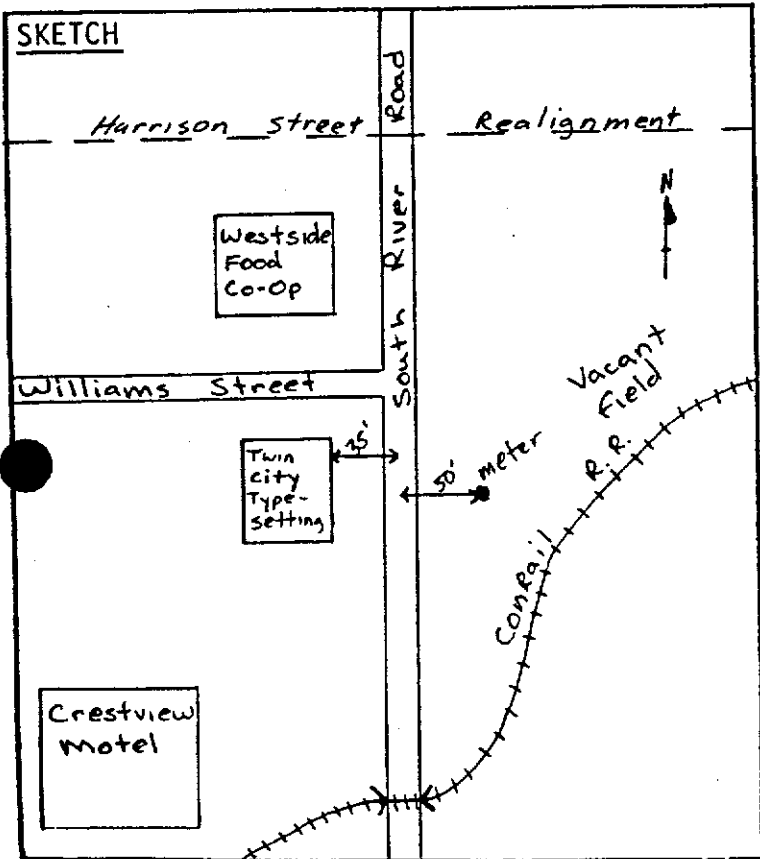
1 + 0.5

RECEIVER	LEQ(H)	L10
R1	59.5	61.2

REPORT ON AMBIENT NOISE SURVEY

Site 7

PROJECT: US 231 Relocation ROUTE: South River Road
 DAY OF WEEK: Thursday DATE: August 21, 1986
 TIME BEGAN: 11:18 am TIME FINISH: 11:23 am
 WEATHER, SKY: clear, 78° WIND: 2-5 mph
 SURVEY SITE LOCATION: This site was located east of South River Road in a gravel parking area.



HEIGHT OF INSTRUMENT 5 feet
 OBSERVED TRAFFIC 50 CARS 14 TRUCKS
 ESTIMATED OPERATING SPEED 35 mph
 DURATION OF SURVEY 15 minutes
 OBSERVED Leq 73.4 dBA
 COMPUTER PREDICTED Leq 67.3 dBA

AMBIENT NOISE LEVELS TAKEN BY:

David Felix & Brenda Fox
 DIVISION OF LOCATION AND ENVIRONMENT
 INDIANA DEPARTMENT OF HIGHWAYS

UNUSUAL SITE OR TRAFFIC CONDITIONS Urban background noise

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	200.	35.
HT	56.	35.

-----COORDINATES-----			
X	Y	Z	GRADE
-5000.	0.	0.	0
5000.	0.	0.	0

-----COORDINATES-----		
X	Y	Z
0.	50.	5.

ALPHA FACTORS

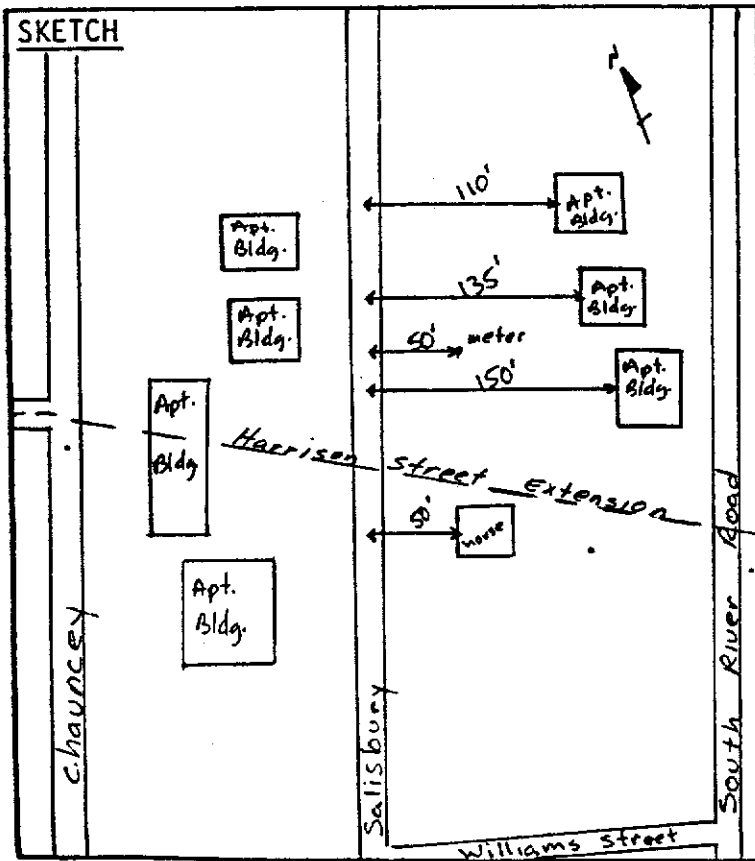
1 * 0.5

RECEIVER	LEQ(H)	L10
R1	67.3	70.4

COMPUTER PRINTOUT

(note that observed traffic has been adjusted to an hourly volume)

PROJECT: US 231 Relocation ROUTE: Salisbury Street
 DAY OF WEEK: Tuesday DATE: August 21, 1986
 TIME BEGAN: 11:43 am TIME FINISH: 11:53 am
 WEATHER, SKY: clear, 78° WIND: 2-5 mph
 SURVEY SITE LOCATION: This site was located in the parking lot of the Crestview Apartment Buildings near the Harrison Street Extension.



HEIGHT OF INSTRUMENT 5 feet
 OBSERVED TRAFFIC 6 CARS 0 TRUCKS
 ESTIMATED OPERATING SPEED 20 mph
 DURATION OF SURVEY 10 minutes
 OBSERVED Leq 62.7 dBA
 COMPUTER PREDICTED Leq 46.0 dBA

AMBIENT NOISE LEVELS TAKEN BY:
David Felix & Brenda Fox
 DIVISION OF LOCATION AND ENVIRONMENT
 INDIANA DEPARTMENT OF HIGHWAYS

UNUSUAL SITE OR TRAFFIC CONDITIONS airplane overhead, people talking

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	36	30
HT	0	30

COORDINATES			
X	Y	Z	GRADE
-5000	0	0	0
5000	0	0	0

COMPUTER PRINTOUT

(note that observed traffic has been adjusted to an hourly volume)

COORDINATES		
X	Y	Z
0	50	5

ALPHA FACTORS
1 & 0.5

RECEIVER	LEQ(H)	L10
R1	46.0	48.9

REPORT ON AMBIENT NOISE SURVEY

Site 9

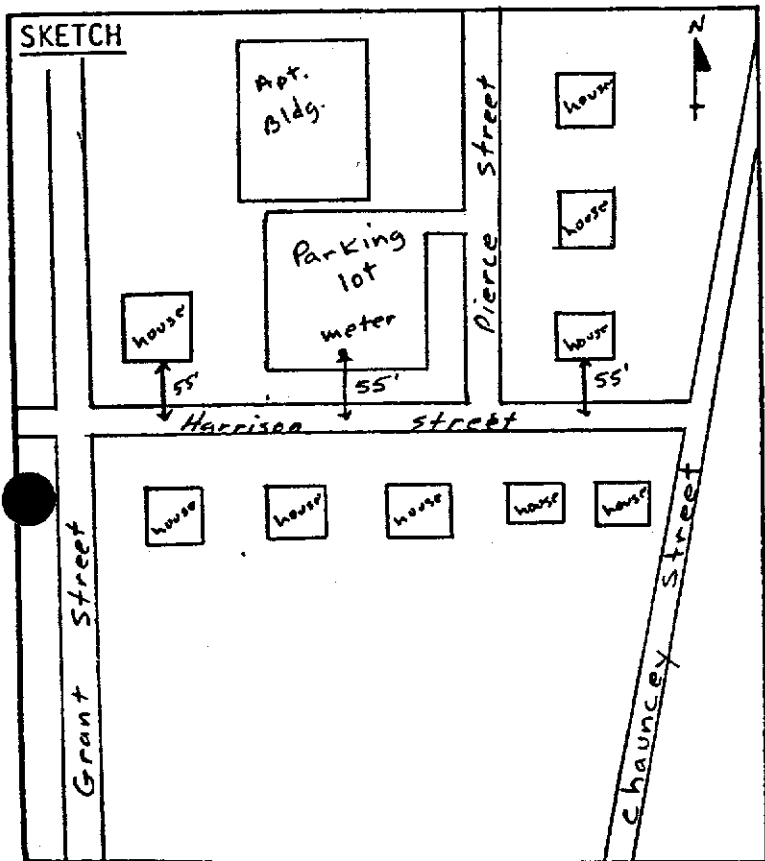
PROJECT: US 231 Relocation ROUTE: Harrison Street

DAY OF WEEK: Thursday DATE: August 21, 1986

TIME BEGAN: 12:16 pm TIME FINISH: 12:31 pm

WEATHER, SKY: clear, 80° WIND: 2-5 mph

SURVEY SITE LOCATION: This site was located on the northside of Harrison Street in the parking lot of the Pickwick Place Apartments.



HEIGHT OF INSTRUMENT 5 feet

OBSERVED TRAFFIC 56 CARS — TRUCKS

ESTIMATED OPERATING SPEED 30mph

DURATION OF SURVEY 15 minutes

OBSERVED Leq 63.8 dBA

COMPUTER PREDICTED Leq 63.2 dBA

AMBIENT NOISE LEVELS TAKEN BY:

David Felix & Brenda Fox

DIVISION OF LOCATION AND ENVIRONMENT
INDIANA DEPARTMENT OF HIGHWAYS

UNUSUAL SITE OR TRAFFIC CONDITIONS motorcycle

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	224.	30.
HT	30.	30.

-----COORDINATES-----			
X	Y	Z	GRADE
-5000.	0.	0.	0
5000.	0.	0.	0

COMPUTER PRINTOUT

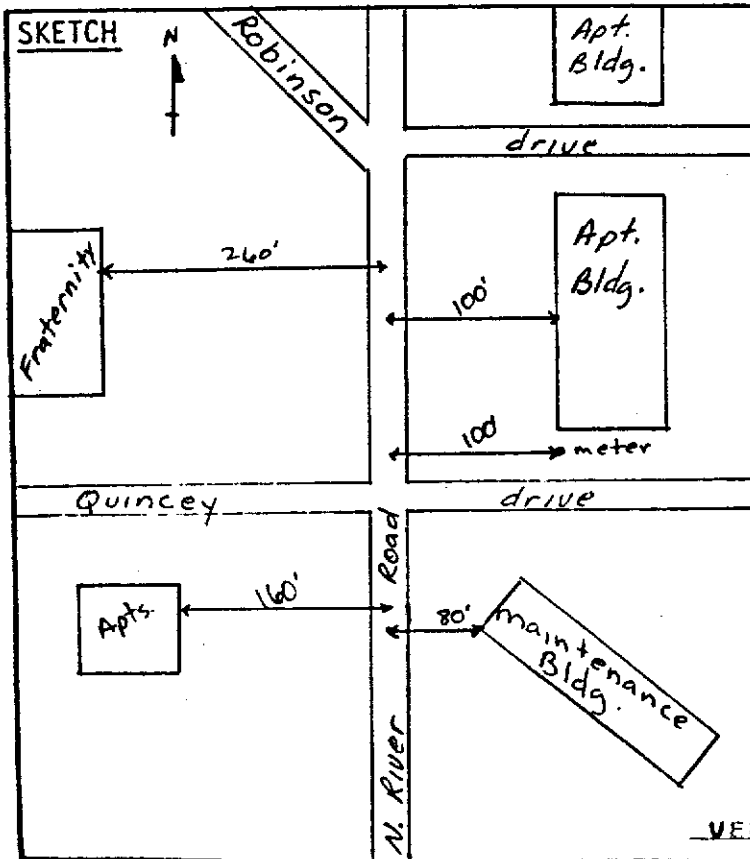
(note that observed traffic has been adjusted to an hourly volume)

-----COORDINATES-----		
X	Y	Z
0.	55.	5.

ALPHA FACTORS

RECEIVER	1 & 0.5	1.10
R1	LEQ(H) 63.2	66.1

PROJECT: US 231 Relocation ROUTE: North River Road
 DAY OF WEEK: Thursday DATE: August 21, 1986
 TIME BEGAN: 12:43 pm TIME FINISH: 12:58 pm
 WEATHER, SKY: clear, 82° WIND: 2-5 mph
 SURVEY SITE LOCATION: This site was located on the eastside of North River Road at the Williamsburg Apartments.



HEIGHT OF INSTRUMENT 5 feet
 OBSERVED TRAFFIC 356 CARS 3 TRUCKS
 ESTIMATED OPERATING SPEED 45 mph
 DURATION OF SURVEY 15 minutes
 OBSERVED Leq 66.5 dBA
 COMPUTER PREDICTED Leq 63.7 dBA

AMBIENT NOISE LEVELS TAKEN BY:

David Felix & Brenda Fox
 DIVISION OF LOCATION AND ENVIRONMENT
 INDIANA DEPARTMENT OF HIGHWAYS

UNUSUAL SITE OR TRAFFIC CONDITIONS

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	712.	45.
HT	6.	45.

-----COORDINATES-----

X	Y	Z	GRAI
-5000.	-12.	0.	
5000.	-12.	0.	

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	712.	45.
HT	6.	45.

-----COORDINATES-----

X	Y	Z	GR
-5000.	12.	0.	
5000.	12.	0.	

-----COORDINATES-----

X	Y	Z
0.	-100.	5.

ALPHA FACTORS

RECEIVER	LEQ(H)	LIQ
1 * 0.5	63.7	67.3

COMPUTER PRINTOUT

(note that observed traffic has been adjusted to an hourly volume)