

Appendix B

Long Term and Short Term Field Measurement Data Sheets

Long-Term Measurements



FIELD NOISE MEASUREMENT DATA

Project: DTOGS - Woodward LRT

arrive @ site →

SITE IDENTIFICATION: LT-001 OBSERVER(s): Lalonde / Gorwood
 START DATE & TIME: 11:30 / Oct 2nd '08 END DATE & TIME: 13:48 Oct 3 '08
 ADDRESS: 23 East Adams
St Central United Methodist Church
6th floor patio direct-line of site

TEMP: 58 F HUMIDITY: 47 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 2.7 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVR CST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE 1 2 SERIAL #: 1663
 CALIBRATOR: CAL 200 SERIAL #: 641911401/194

CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

10:50	L _{eq}	L _{max}	L _{min}	L ₉₀	L ₅₀	L ₁₀
12:02	L _{eq}	L _{max}	L _{min}	L ₉₀	L ₅₀	L ₁₀
	L _{eq}	L _{max}	L _{min}	L ₉₀	L ₅₀	L ₁₀
	L _{eq}	L _{max}	L _{min}	L ₉₀	L ₅₀	L ₁₀

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: woodward.
 ROADWAY TYPE: light on Adams.

COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)			
	NB / EB	SB / WB	NB	EB / SB	WB	NB / EB	SB / WB	NB	EB / SB	WB
AUTOS:										
MED. TRUCKS:										
HVY TRUCKS:										
BUSES:										
MOTORCYCLES:										

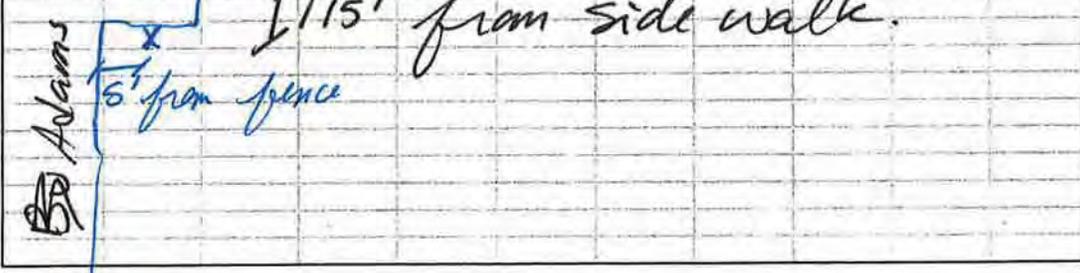
SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:

PHOTOS:

OTHER COMMENTS / SKETCH:



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch

download
1st then
check
short-term
only



FIELD NOISE MEASUREMENT DATA

Project: DTOGS - Woodward LRT

SITE IDENTIFICATION: Oct. 2nd OBSERVER(s): Calonde
 START DATE & TIME: LT-002 END DATE & TIME: Oct. 3rd 2:10 pm
 ADDRESS: St. John's EPISCOPAL CHURCH
50 E FISHER FREEWAY 48201
Detroit, MI 48201

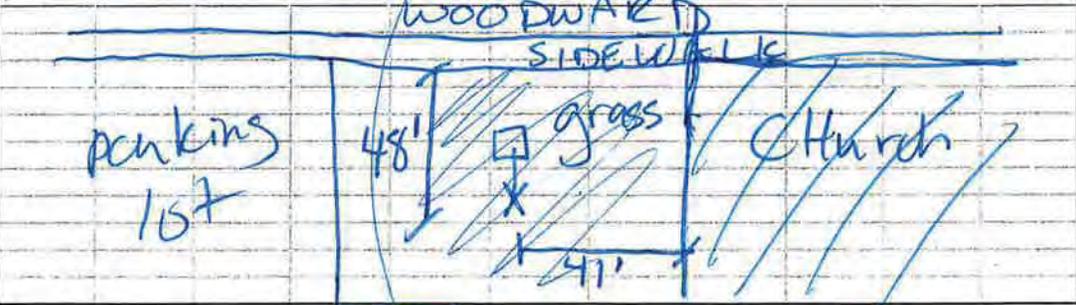
TEMP: 56 °F HUMIDITY: 48 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 3.9 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE: D2 SERIAL #: 18 1666
 CALIBRATOR: CAL 200 SERIAL #: 6419
 CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST 113.6 dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____

COMMENTS: Die A 4am - STARTED A NEW MEASUREMENT
at 2:25 pm

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: Woodward
 ROADWAY TYPE:
 COUNT DURATION: -MINUTE SPEED (mph) #2 COUNT: SPEED (mph)
 NB / EB / SB / WB NB EB / SB WB NB / EB / SB / WB NB EB / SB WB
 AUTOS: _____ / _____ / _____ / _____ / _____ / _____
 MED. TRUCKS: _____ / _____ / _____ / _____ / _____ / _____
 HVY TRUCKS: _____ / _____ / _____ / _____ / _____ / _____
 BUSES: _____ / _____ / _____ / _____ / _____ / _____
 MOTORCYCLES: _____ / _____ / _____ / _____ / _____ / _____
 SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER
 OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:
 PHOTOS:
 OTHER COMMENTS / SKETCH: noise meter attached to tree 6' up.



N →

Pick up
Oct 4
Pu 2:45
Depnked
check L30
New
check
ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: Drake Woodward LRT

SITE IDENTIFICATION: LT-003 OBSERVER(s): Lalonde/Gorden
 START DATE & TIME: 2 pm 12/2 END DATE & TIME: 0.7.5
 ADDRESS: Bi-centennial Tower
4 ALEXANDRINE

TEMP: 58 °F HUMIDITY: 50 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED: 5.4 MPH DIR: N NE E SE S SW W NW STEADY GUST
 SKY: OVR CST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

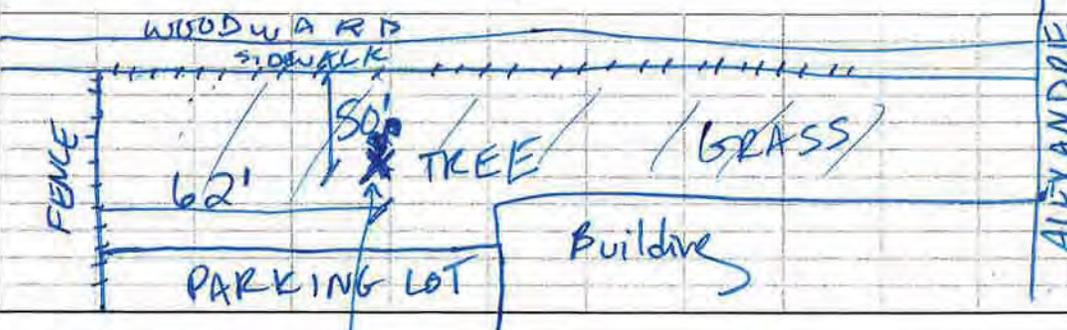
INSTRUMENT: LD 820 TYPE: 1 2 SERIAL #: 1617
 CALIBRATOR: CALL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
 : L_{eq} L_{max} L_{min} L_{90} L_{50} L_{10}
 : L_{eq} L_{max} L_{min} L_{90} L_{50} L_{10}
 : L_{eq} L_{max} L_{min} L_{90} L_{50} L_{10}
 : L_{eq} L_{max} L_{min} L_{90} L_{50} L_{10}

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
 ROADWAY TYPE:
 COUNT DURATION: -MINUTE SPEED (mph) #2 COUNT: SPEED (mph)
 NB / EB / SB / WB NB EB / SB WB NB / EB / SB / WB NB EB / SB WB
 AUTOS: / / / / / / / /
 MED. TRUCKS: / / / / / / / /
 HVY TRUCKS: / / / / / / / /
 BUSES: / / / / / / / /
 MOTORCYCLES: / / / / / / / /
 SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER
 OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:
 PHOTOS:
 OTHER COMMENTS / SKETCH:



meter place in tree.

ID Weather Acoustic Measurements Source Info and Traffic Counts Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: DTOGS - Woodward LRT

Oct. 3 '08 9:AM
 SITE IDENTIFICATION: LT004 OBSERVER(s): Lalonde/Gordon
 START DATE & TIME: 10/4/08 END DATE & TIME: 11:30am
 ADDRESS: 4750 Woodward Ave
Hannan Hall

TEMP: 49 °F HUMIDITY: 59 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 0.6 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other: meter in shade

INSTRUMENT: LD 820 TYPE: D 2 SERIAL #: 1592
 CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST 13.7 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

10:12 AM

L _{eq}	L _{max}	L _{min}	L ₉₀	L ₅₀	L ₁₀
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS:

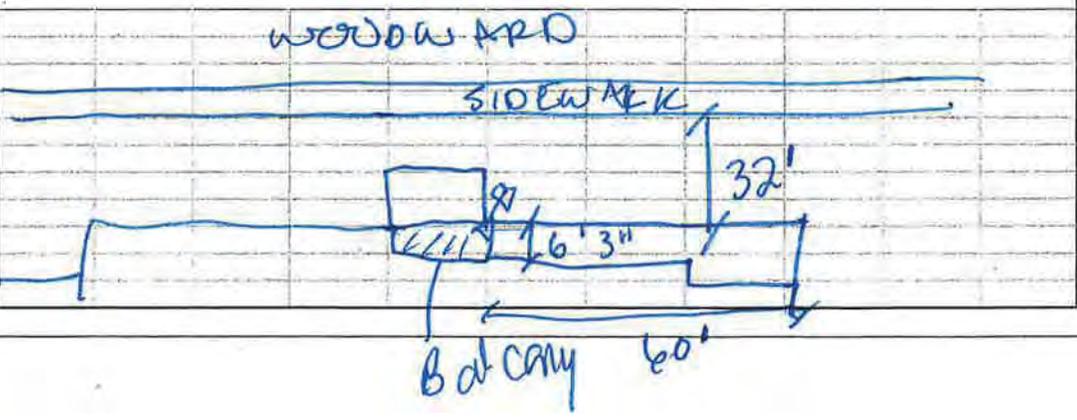
SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: Woodward Ave
 ROADWAY TYPE: _____

COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB	EB	SB	WB	NB	EB	SB	WB
AUTOS:	_____	_____	_____	_____	_____	_____	_____	_____
MED. TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
HVY TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
BUSES:	_____	_____	_____	_____	_____	_____	_____	_____
MOTORCYCLES:	_____	_____	_____	_____	_____	_____	_____	_____

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER: _____

TERRAIN: HARD SOFT MIXED FLAT OTHER: Small grassy area
 PHOTOS: _____
 OTHER COMMENTS / SKETCH: between Bldg & sidewalk



ID
 Weather
 Acoustic Measurements
 Source Info and Traffic Counts
 Description / sketch





FIELD NOISE MEASUREMENT DATA

2:35p Project: DTGGS-Woodward LRT

SITE IDENTIFICATION: LT-005 OBSERVER(s): Lalonde/ START DATE & TIME: Oct 3 08:235 END DATE & TIME: 10/4/08 3:04pm ADDRESS: 2440 WOODWARD

TEMP: 58 °F HUMIDITY: 35.5 % R.H. WIND: CALM LIGHT MODERATE VARIABLE WINDSPEED 1.0 MPH DIR: N NE E SE S SW W NW STEADY GUSTY SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE: 1 2 SERIAL #: 1663 CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST 113.5 dBA SPL WINDSCREEN

SETTINGS: A WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: : Leq, Lmax, Lmin, L90, L50, L10

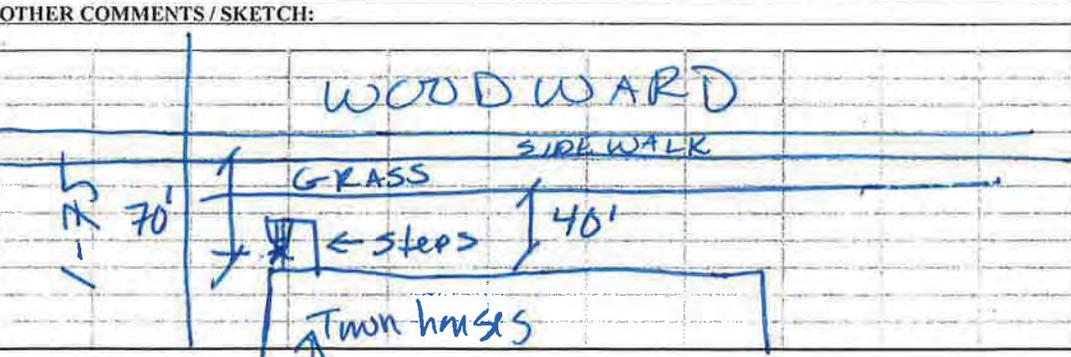
COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: Woodward / Freeway 75 ROADWAY TYPE:

Table with columns: COUNT DURATION, SPEED (mph), #2 COUNT, SPEED (mph). Rows for AUTOS, MED. TRUCKS, HVY TRUCKS, BUSES, MOTORCYCLES.

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER: PHOTOS:



2440

ID Weather Acoustic Measurements Source Info and Traffic Counts Description / sketch

download from check



FIELD NOISE MEASUREMENT DATA

Project: DTOGS-woodward LRT

SITE IDENTIFICATION: LT-004 OBSERVER(S): Latonde / Gordon
 START DATE & TIME: Oct 4, 08 16:19 END DATE & TIME: Oct 5, 08 16:30
 ADDRESS: New Center Park
8285 Woodward

TEMP: 60 °F HUMIDITY: 44 % R.H. WIND: (CALM) LIGHT MODERATE VARIABLE
 WINDSPEED MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY (CLEAR) (SUNNY) FOG RAIN Other:

INSTRUMENT: LD 820 TYPE: 2 SERIAL #: 1592
 CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST 114.0 dBA SPL POST-TEST 114.1 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED (SLOW) FAST FRONTAL (RANDOM) ANSI OTHER:
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____

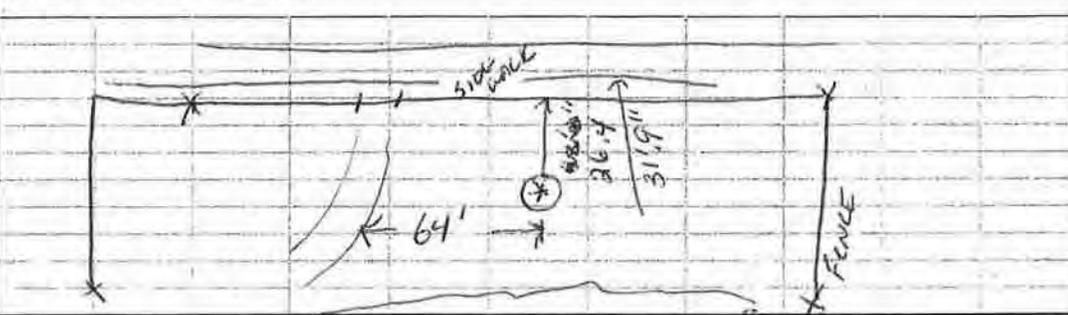
COMMENTS:

SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
 ROADWAY TYPE: 6 lanes w/ center flush median

COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB/EB	SR/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>30-45 mph</u>					
MED. TRUCKS:								
HVY TRUCKS:								
BUSES:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
MOTORCYCLES:								

OTHER NOISE SOURCES: distant AIRCRAFT overhead (RUSTLING LEAVES) / distant BARKING DOGS (BIRDS)
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER: People talking Bus stop across street

TERRAIN: HARD SOFT (MIXED) FLAT OTHER:
 PHOTOS:
 OTHER COMMENTS / SKETCH:



wind
max
2.0
Avg
1.0

ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

7:00 Project: DTGS - Woodward LRT

Pick up
11:45
the noise to be
gone by 12:15

SITE IDENTIFICATION: LT-007 OBSERVER(S): Lalonde / Gordon / Young
 START DATE & TIME: Oct 5 08 11:30 END DATE & TIME: Oct 6 08 11:45
 ADDRESS: 4501 WOODWARD # 218 48201
Tim Sutton

ID

TEMP: 63 °F HUMIDITY: 37.5 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 0.8 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVR CST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

Weather

INSTRUMENT: LD 820 TYPE: 2 SERIAL #: 1663
 CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST 114.0 dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

Acoustic Measurements

_____	: L _{eq} _____	L _{max} _____	L _{min} _____	L ₉₀ _____	L ₅₀ _____	L ₁₀ _____	_____
_____	: L _{eq} _____	L _{max} _____	L _{min} _____	L ₉₀ _____	L ₅₀ _____	L ₁₀ _____	_____
_____	: L _{eq} _____	L _{max} _____	L _{min} _____	L ₉₀ _____	L ₅₀ _____	L ₁₀ _____	_____
_____	: L _{eq} _____	L _{max} _____	L _{min} _____	L ₉₀ _____	L ₅₀ _____	L ₁₀ _____	_____

COMMENTS: MEASUREMENT TAKEN ON BALCONY of 2nd level

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: People noise
 ROADWAY TYPE: _____

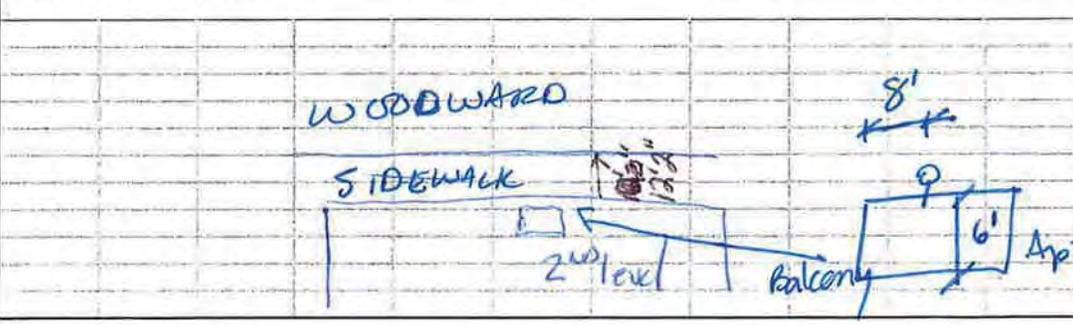
Source Info and Traffic Counts

COUNT DURATION:	-MINUTE				SPEED (mph)				#2 COUNT:				SPEED (mph)			
	NB	EB	SB	WB	NB	EB	SB	WB	NB	EB	SB	WB	NB	EB	SB	WB
AUTOS:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
MED. TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
HVY TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
BUSES:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
MOTORCYCLES:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER: _____

TERRAIN: HARD SOFT MIXED FLAT OTHER:
 PHOTOS:
 OTHER COMMENTS / SKETCH:

Description / sketch



FIELD NOISE MEASUREMENT DATA

9:58 Project: DTGS-Woodward LRT

SITE IDENTIFICATION: 67-008 OBSERVER(s): Lalonde/Gordon
 START DATE & TIME: OCT 6 08 10:15 END DATE & TIME: OCT 7 08 10:45
 ADDRESS: 5979
WOODWARD
WSU LOT 14

TEMP: 56 °F HUMIDITY: 52.8 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 2.2 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD820 TYPE: 1 SERIAL #: 1552
 CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST 113.6 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
 ROADWAY TYPE:

COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB
AUTOS:	_____	_____	_____	_____	_____	_____	_____	_____
MED. TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
HVY TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
BUSES:	_____	_____	_____	_____	_____	_____	_____	_____
MOTORCYCLES:	_____	_____	_____	_____	_____	_____	_____	_____

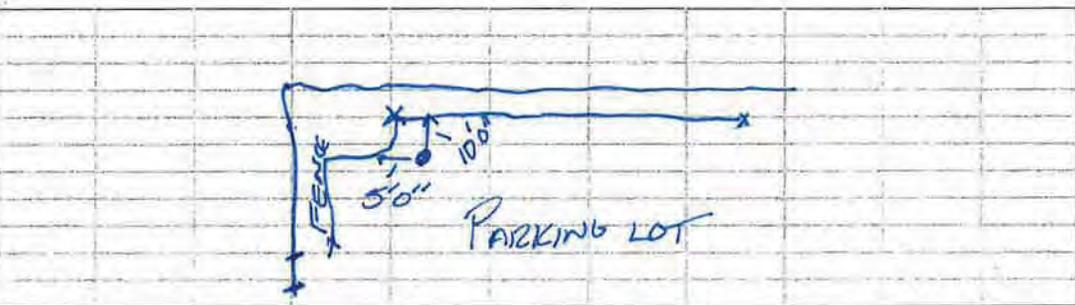
SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:

PHOTOS:

OTHER COMMENTS / SKETCH:



5ft off ground

ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

10:30
9:30

Project: DTOGS-Woodward LRT

SITE IDENTIFICATION: LT-0089 OBSERVER(s): Lalande/Cooper
START DATE & TIME: Oct 6 08 10:45 AM END DATE & TIME: Oct 7 08 14:05 PM
ADDRESS: Metropolitan United Meth Church Parking Lot
7730 WOODWARD

TEMP: 56 °F HUMIDITY 53.4 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED 2.1 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE: 2 SERIAL #: 1417
CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST 114.1 dBA SPL POST-TEST 113.9 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

_____: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
_____: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
_____: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
_____: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____
ROADWAY TYPE: _____

COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB
AUTOS:	_____	_____	_____	_____	_____	_____	_____	_____
MED. TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
HVY TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
BUSES:	_____	_____	_____	_____	_____	_____	_____	_____
MOTORCYCLES:	_____	_____	_____	_____	_____	_____	_____	_____

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

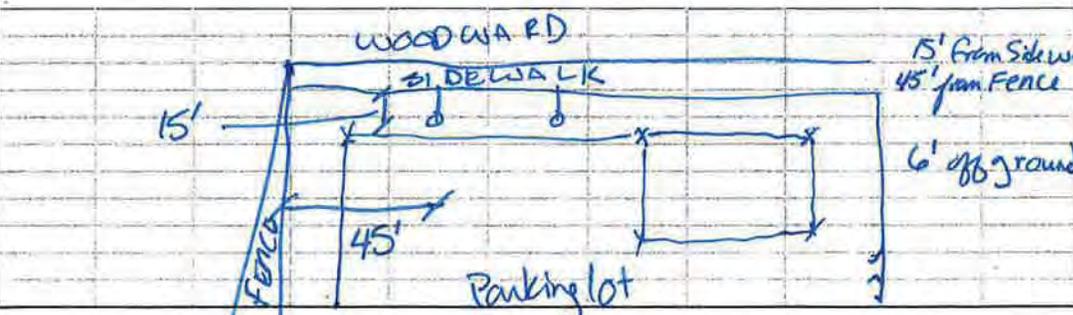
OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS

OTHER: _____

TERRAIN: HARD SOFT MIXED FLAT OTHER: _____

PHOTOS: meter place on a light post

OTHER COMMENTS / SKETCH:



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / Sketch



FIELD NOISE MEASUREMENT DATA

12:10 Project: DTGGS- Woodward LRT

SITE IDENTIFICATION: LT-010 OBSERVER(S): Leland/Gordon
 START DATE & TIME: Oct 6 08 12:45 END DATE & TIME: Oct 7 08 1300
 ADDRESS: 5509 WOODWARD
LOT 33 W54 PARKING LOT

TEMP: 58 °F HUMIDITY: 46.4 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED: 4.1 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE 1 2 SERIAL #: 1663
 CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST 113.6 dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

	: L _{eq}	, L _{max}	, L _{min}	, L ₉₀	, L ₅₀	, L ₁₀	, _____
	: L _{eq}	, L _{max}	, L _{min}	, L ₉₀	, L ₅₀	, L ₁₀	, _____
	: L _{eq}	, L _{max}	, L _{min}	, L ₉₀	, L ₅₀	, L ₁₀	, _____
	: L _{eq}	, L _{max}	, L _{min}	, L ₉₀	, L ₅₀	, L ₁₀	, _____

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____
 ROADWAY TYPE: _____

COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB
AUTOS:	_____	_____	_____	_____	_____	_____	_____	_____
MED. TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
HVY TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
BUSES:	_____	_____	_____	_____	_____	_____	_____	_____
MOTORCYCLES:	_____	_____	_____	_____	_____	_____	_____	_____

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER: _____

TERRAIN: HARD SOFT MIXED FLAT OTHER: _____
 PHOTOS: _____

OTHER COMMENTS / SKETCH:



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: DTOGS-Woodward LRT

SITE IDENTIFICATION: LT-0011 OBSERVER(s): Lakonda / Gordon
START DATE & TIME: OCT 7 08 2:45 END DATE & TIME: OCT 8 08 3:00
ADDRESS: 5930 WOODWARD
CATHOLIC CHURCH

TEMP: 67 °F HUMIDITY: 43.9 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED 1.5 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVRCST PARTLY-CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE: 02 SERIAL #: 1066
CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST 14.1 dBA SPL POST-TEST dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: Major

ROADWAY TYPE: Arterial (Woodward) of Hwy 7-94

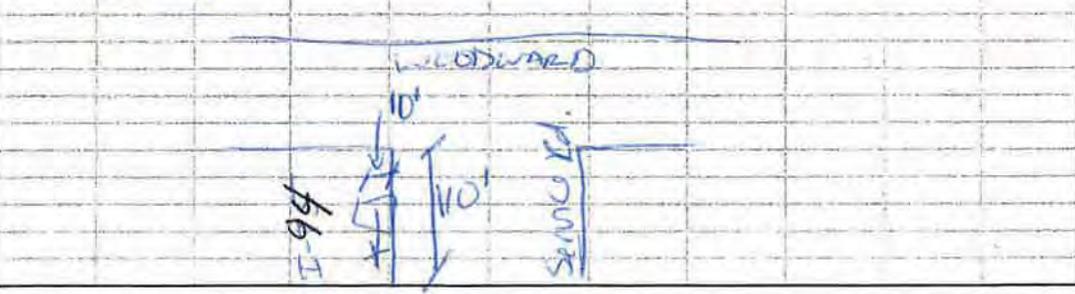
COUNT DURATION: -MINUTE SPEED (mph) #2 COUNT: SPEED (mph)

	NB / EB / SB / WB		NB / EB / SB / WB		NB / EB / SB / WB		NB / EB / SB / WB	
AUTOS:	/	/	/	/	/	/	/	/
MED. TRUCKS:	/	/	/	/	/	/	/	/
HVY TRUCKS:	/	/	/	/	/	/	/	/
BUSES:	/	/	/	/	/	/	/	/
MOTORCYCLES:	/	/	/	/	/	/	/	/

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER
OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:

PHOTOS:
OTHER COMMENTS / SKETCH: Access from Our Lady of Rosary Catholic Church



313
875-
2716

ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

13:10 Project: DTOG - Woodward LET

FAR BACK

SITE IDENTIFICATION: LT-012 OBSERVER(s): Lalonde/Gordon
START DATE & TIME: Oct 6 08 13:45 END DATE & TIME: Oct 7 08 14:15
ADDRESS: 7730 Woodward
Metropolitan United Methodist Church

TEMP: 63 °F HUMIDITY: 39.5 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED: 1.1 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD820 TYPE: 1 2 SERIAL #: 1666
CALIBRATOR: CAL 200 SERIAL #: 6419
CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST: 114.1 dBA SPL WINDSCREEN
SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
_____: L_{eq}_____, L_{max}_____, L_{min}_____, L₉₀_____, L₅₀_____, L₁₀_____, _____
_____: L_{eq}_____, L_{max}_____, L_{min}_____, L₉₀_____, L₅₀_____, L₁₀_____, _____
_____: L_{eq}_____, L_{max}_____, L_{min}_____, L₉₀_____, L₅₀_____, L₁₀_____, _____
_____: L_{eq}_____, L_{max}_____, L_{min}_____, L₉₀_____, L₅₀_____, L₁₀_____, _____

COMMENTS:

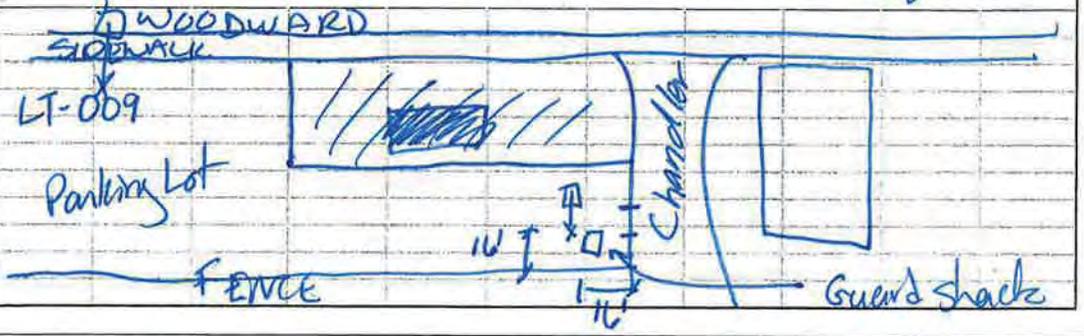
SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____
ROADWAY TYPE: _____

COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB
AUTOS:	_____	_____	_____	_____	_____	_____	_____	_____
MED. TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
HVY TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
BUSES:	_____	_____	_____	_____	_____	_____	_____	_____
MOTORCYCLES:	_____	_____	_____	_____	_____	_____	_____	_____

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
OTHER: _____

TERRAIN: HARD SOFT MIXED FLAT OTHER: _____
PHOTOS: _____
OTHER COMMENTS / SKETCH: Monitor place on Guard Shack ledge



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

10:40

Project: DTOGS-Woodward Leg

SITE IDENTIFICATION: LT-013 OBSERVER(s): LALONDE / GARDON
 START DATE & TIME: OCT 7 08 11:00 AM END DATE & TIME: OCT 8 08 11:30 AM
 ADDRESS: THE FAMILY PLACE
8721 WOODWARD

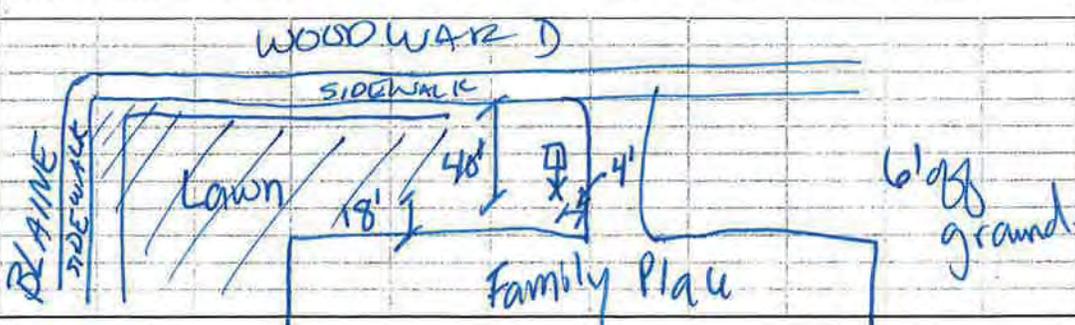
TEMP: 59 °F HUMIDITY: 55.6 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 0.9 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE: 1 2 SERIAL #: 1592
 CALIBRATOR: CAL 200 SERIAL #: 6419
 CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST 113.2 dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
 ROADWAY TYPE:
 COUNT DURATION: -MINUTE SPEED (mph) #2 COUNT: SPEED (mph)
 NB / EB / SB / WB NB EB / SB WB NB / EB / SB / WB NB EB / SB WB
 AUTOS: _____ / _____ / _____ / _____
 MED. TRUCKS: _____ / _____ / _____ / _____
 HVY TRUCKS: _____ / _____ / _____ / _____
 BUSES: _____ / _____ / _____ / _____
 MOTORCYCLES: _____ / _____ / _____ / _____
 SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER
 OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:
 PHOTOS:
 OTHER COMMENTS / SKETCH:



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

1:20 Project: DTOGS - WOODWARD LPT

SITE IDENTIFICATION: LT - 014 OBSERVER(s): Lalonde / Gordon
START DATE & TIME: Oct 6 08 13:45 END DATE & TIME: Oct 7 08 14:00
ADDRESS: ORCHESTRA PLACE
3501 STEVENSON

TEMP: 63 °F HUMIDITY: 44.6 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED 4.7 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE: 1 2 SERIAL #: 1663
CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST dBA SPL POST-TEST 113.9 dBA SPL WINDSCREEN
SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

Table with columns for Leq, Lmax, Lmin, L90, L50, L10 for multiple measurements.

COMMENTS:

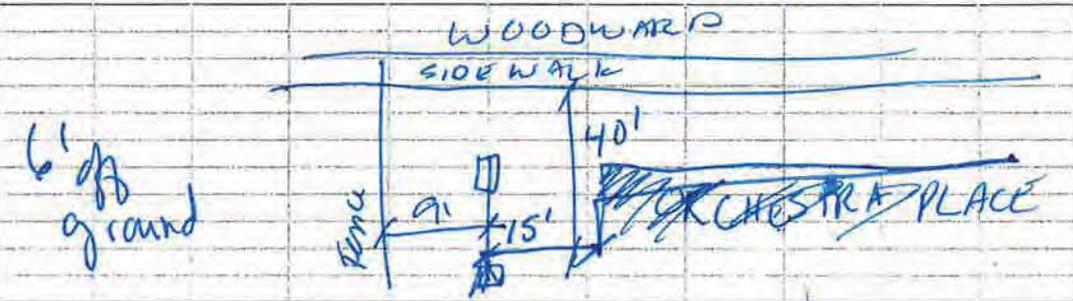
SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE:

Table for traffic counts with columns for COUNT DURATION, SPEED (mph), and #2 COUNT for various vehicle types.

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:

PHOTOS:
OTHER COMMENTS / SKETCH: meter Attached to TREE



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: DTGGS Woodward LRT

SITE IDENTIFICATION: LT-100 OBSERVER(S): Byron & Ron
 START DATE & TIME: 10-2-2008 1341 END DATE & TIME: 10-3-08 14:15
 ADDRESS: State Fair Apts
1231 West State Fair

wind speed

TEMP: 56.5°F HUMIDITY: 50.3% R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other: Rain over night

max 12.6

Aug 2.3

INSTRUMENT: LD-820 TYPE: 2 SERIAL #: 1631
 CALIBRATOR: LD-Cal 200 SERIAL #: 6278

CALIBRATION CHECK: PRE-TEST 113.8 dBA SPL POST-TEST 113.7 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
 ROADWAY TYPE: 8 lanes 4 lanes each Direction w/Grass med.

COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>25-49</u>	<u>25-45</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MED. TRUCKS:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVY TRUCKS:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BUSES:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOTORCYCLES:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

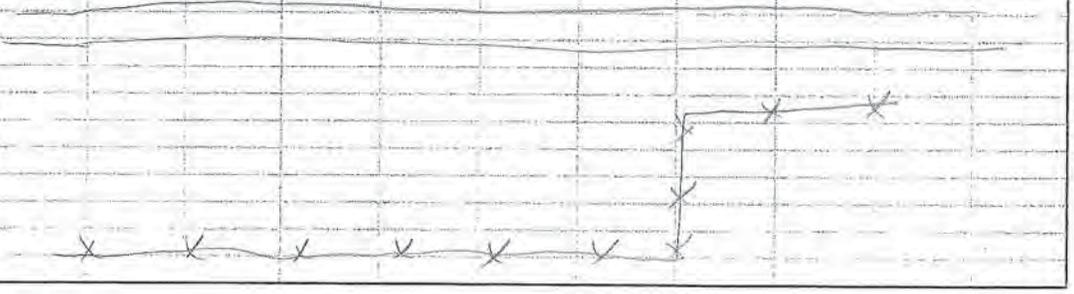
OTHER NOISE SOURCES: distant AIRCRAFT overhead RUSTLING LEAVES distant BARKING DOGS / BIRDS
distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS

OTHER: plastic bag blowing in wind

TERRAIN: HARD SOFT MIXED FLAT OTHER:

PHOTOS: 1-5

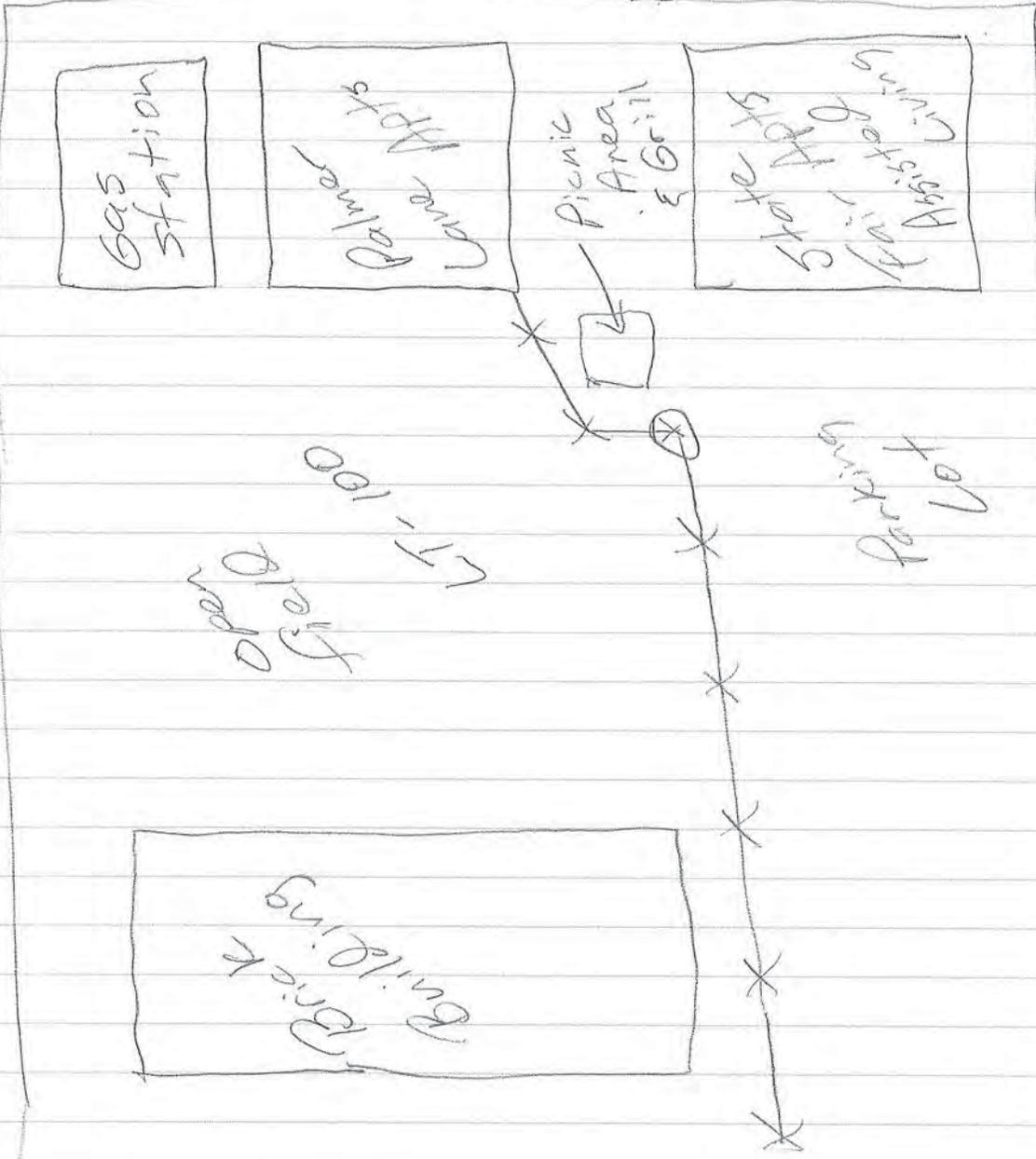
OTHER COMMENTS / SKETCH:



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch

→ North

Woodward Ave (8 lanes 4 ea direction w/ divided grass median)



Ralston Street

Gas Station

Cove Apts

Picnic Area & Grill

Assisted Living
Apts

Open Field
LT-100

Parking Lot

West State Fair



FIELD NOISE MEASUREMENT DATA

Project: DT065 Woodward CRT

SITE IDENTIFICATION: LT-101 OBSERVER(s): Byron & Ron
START DATE & TIME: 10-2-08 15:56 END DATE & TIME: 10-3-08 15:57
ADDRESS: Evergreen Cemetery
19807 Woodward Ave.

TEMP: 57°F HUMIDITY: 56 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other: Rain over night

INSTRUMENT: LD-820 TYPE: D2 SERIAL #: 1687
CALIBRATOR: LD-CAL 200 SERIAL #: 6278

CALIBRATION CHECK: PRE-TEST 114.1 dBA SPL POST-TEST 113.9 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
: Leq, Lmax, Lmin, L90, L50, L10,

COMMENTS: Represents Palmer Park Neighborhood

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: 8 lanes 4 lanes in ea. direction w/Grass med

Table with columns for COUNT DURATION, SPEED (mph), #2 COUNT, and SPEED (mph) for various vehicle types (AUTOS, MED. TRUCKS, HVY TRUCKS, BUSES, MOTORCYCLES).

OTHER NOISE SOURCES: distant AIRCRAFT overhead RUSTLING LEAVES distant BARKING DOGS BIRDS
distant CHILDREN PLAYING distant TRAFFIC distant LANDSCAPING distant TRAINS
OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER: Grass Headstones
PHOTOS: 6 & 7

OTHER COMMENTS / SKETCH:

wind mark 5.6 Aug 2.3

ID Weather Acoustic Measurements Source Info and Traffic Counts Description / sketch

"Evergreen"
Crematory
Mausoleum

Brick
Path

Apple
Tree

284'

Maple
Tree
CT-101

Cemetery

CT-101

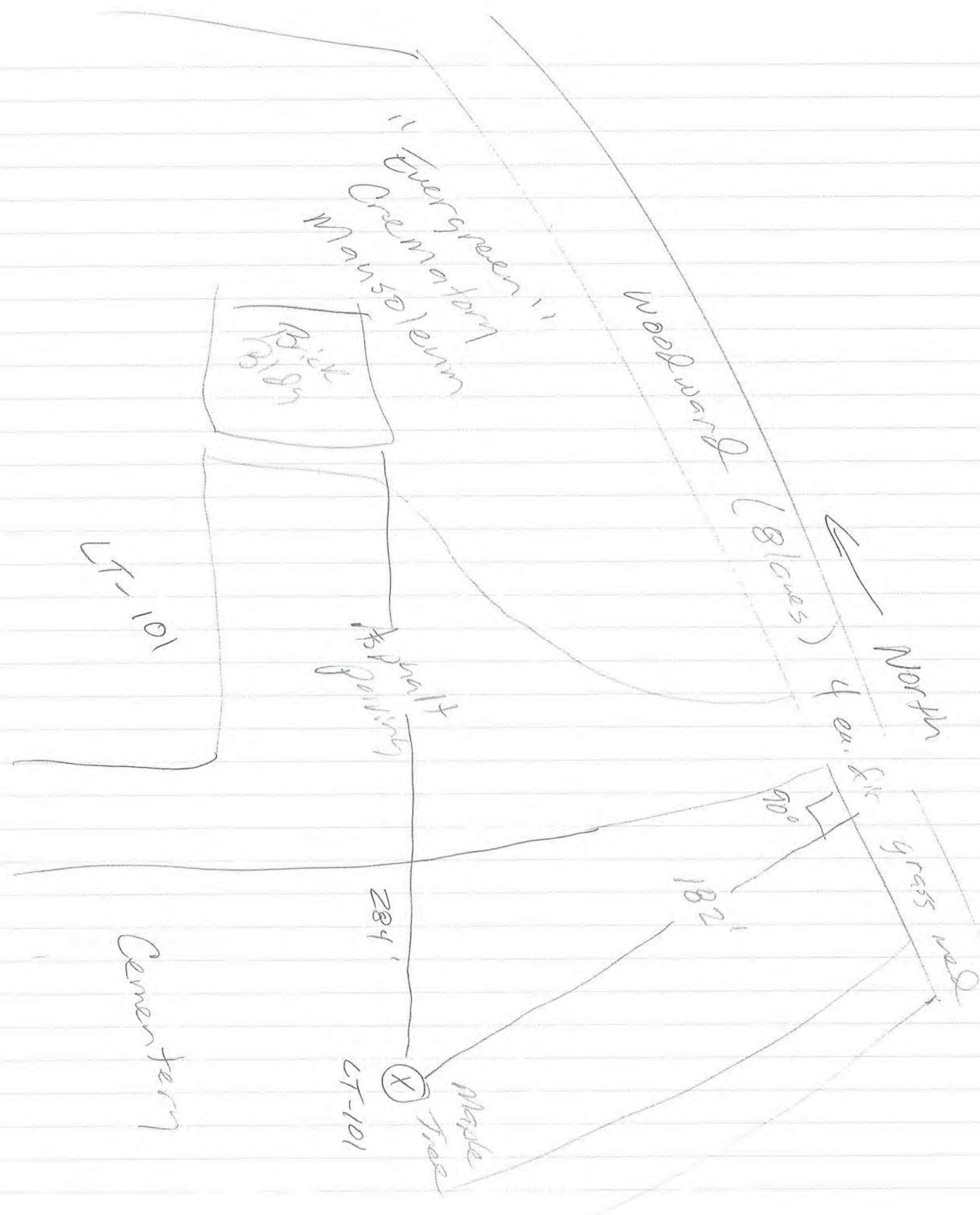
Woodland (8 acres)

North
4 ac. Fir

90°

182'

grass
road



LT-102

North →

Woodward Ave

Elite
Car Company

Concrete
Parking

Block
Bldg

Block Wall

Asphalt
Alley

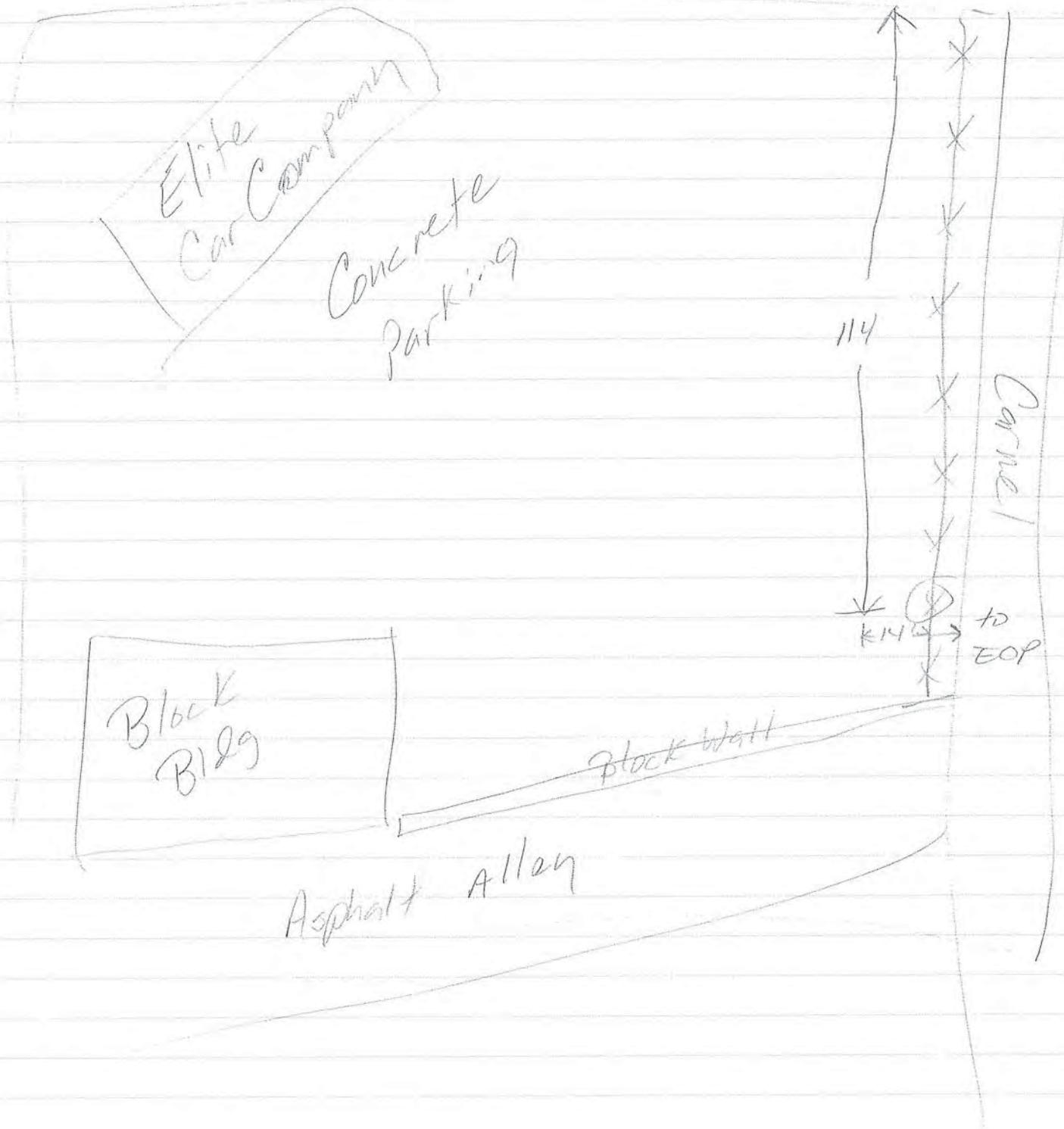
to
EOP

114

114

to
EOP

Came /





FIELD NOISE MEASUREMENT DATA

Project: DT065... Woodward LRT

SITE IDENTIFICATION: LT-103 OBSERVER(s): Byron & Ron
START DATE & TIME: 10-3-08 10:11 END DATE & TIME:
ADDRESS: 19300 Affton

TEMP: 47 °F HUMIDITY: 71 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD-820 TYPE: 1 2 SERIAL #: 1635
CALIBRATOR: LD-CAL 200 SERIAL #: 6278

CALIBRATION CHECK: PRE-TEST 114.2 dBA SPL POST-TEST dBA SPL WINDSCREEN
SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

Table with columns for Leq, Lmax, Lmin, L90, L50, L10 across four rows.

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: PA system across a road
ROADWAY TYPE: 8 lanes 4 in ea dir w/ Grass median

Table for traffic counts with columns for NB/EB/SB/WB, SPEED (mph), #2 COUNT, and SPEED (mph).

OTHER NOISE SOURCES: distant AIRCRAFT overhead RUSTLING LEAVES distant BARKING DOGS BIRDS
distant CHILDREN PLAYING distant TRAFFIC distant LANDSCAPING distant TRAINS

TERRAIN: HARD SOFT MIXED FLAT OTHER: Grass back yard

PHOTOS: 13-16
OTHER COMMENTS / SKETCH:
Description / sketch

wind
max.
1.9
Avg.
0.6

ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch

← North

Woodward Ave (8 lanes)



PALMIR WOODS SUB-DIVISION

5th House down 19300

Brick & Driveway

Bolton Rd

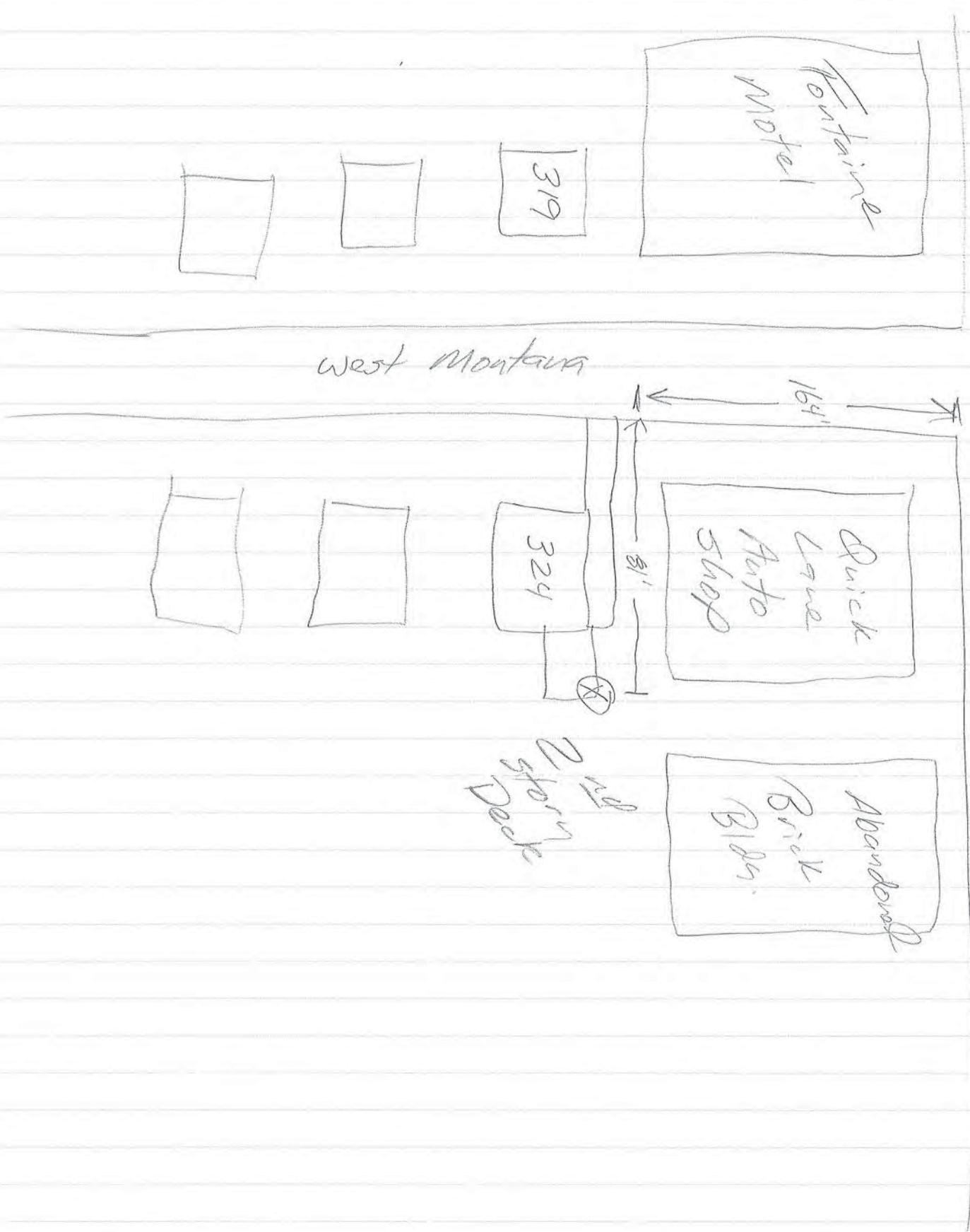
566'

Afton Rd

Ave.

North →

Woodward Ave 10 lanes w/ grass median



Containe Motel

319

West Mountain

164'

Quick Lane Auto Shop

324

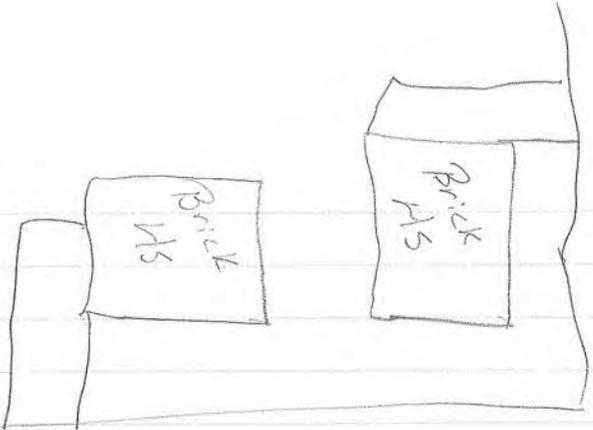
81'

Abandoned Brick Bldg.

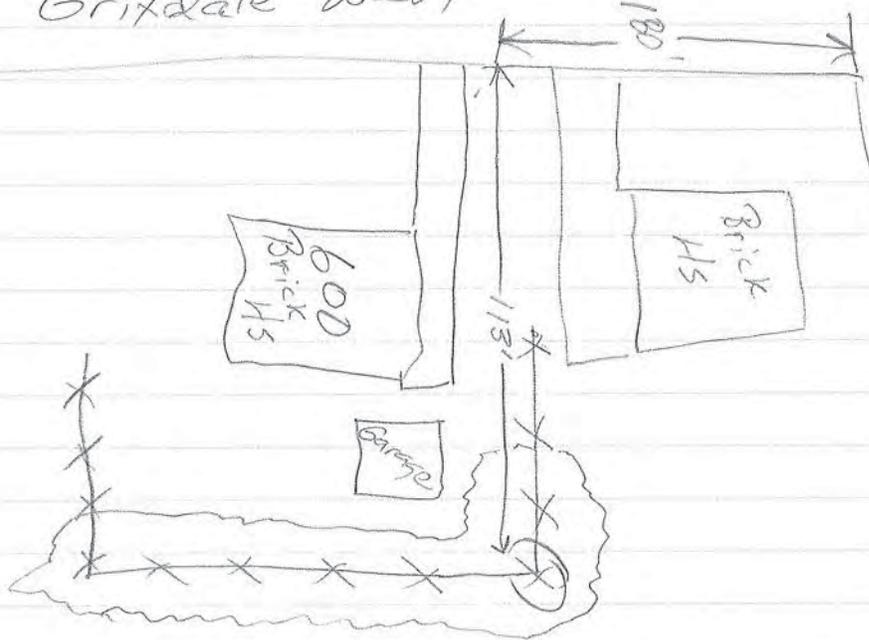
old storage Deck

North →

10 lanes Woodward Ave (grass median)



Grixdale west



North →

woodward Ave 16 lanes w/ flash median

Block Bldg
16140 Woodward
Highland Park

Asphalt parking lot

90'

10'

Alley

Church Street

2 Story Brick
Apartment Bldgs

2 Story Brick
Apartment Bldgs

Soul
Harvest
ministries
Parking
Lot

Block Bldg

Parking Lot



205'

129'

Concrete Alley

Grass Lot

2 story
Block
Bldg

Porch

1 1/2 story
frame

Highland Park
Historic District

Woodward Ave 6 lanes w/ center flush median

← North

← North

4 lanes

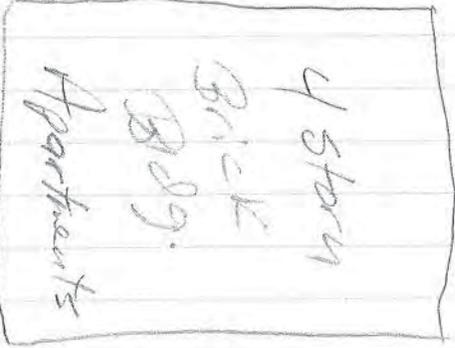
3 turn
1 left turn

1 Right turn

Divided
w/ grass median

← North

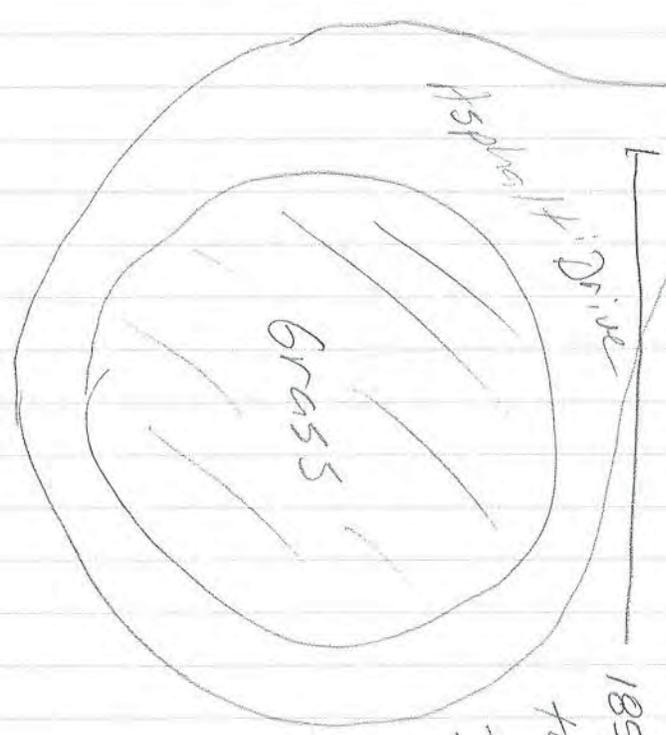
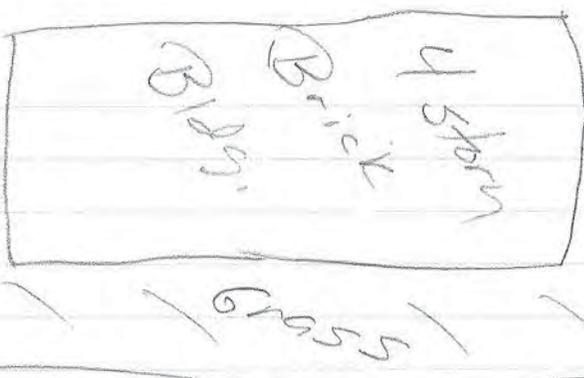
[LT-108]



North →

Woodward Ave (Blanes Ave. Dr. w/ flush center turn lane)

to EOP
56'



185'

to E Drive

Asphalt
Parking
Lot

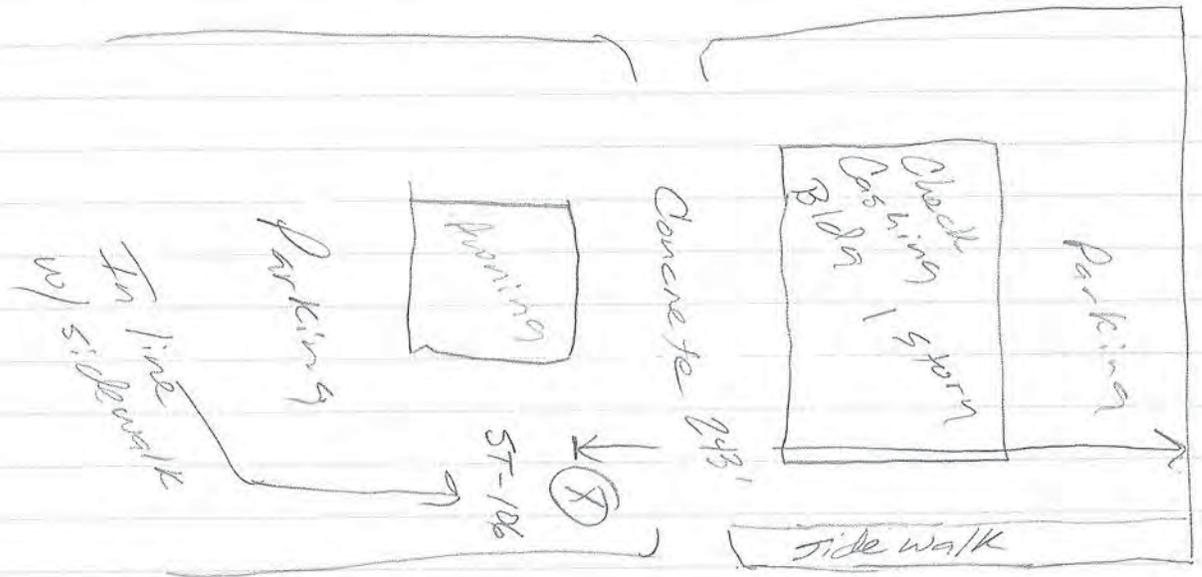


Railroad

← North

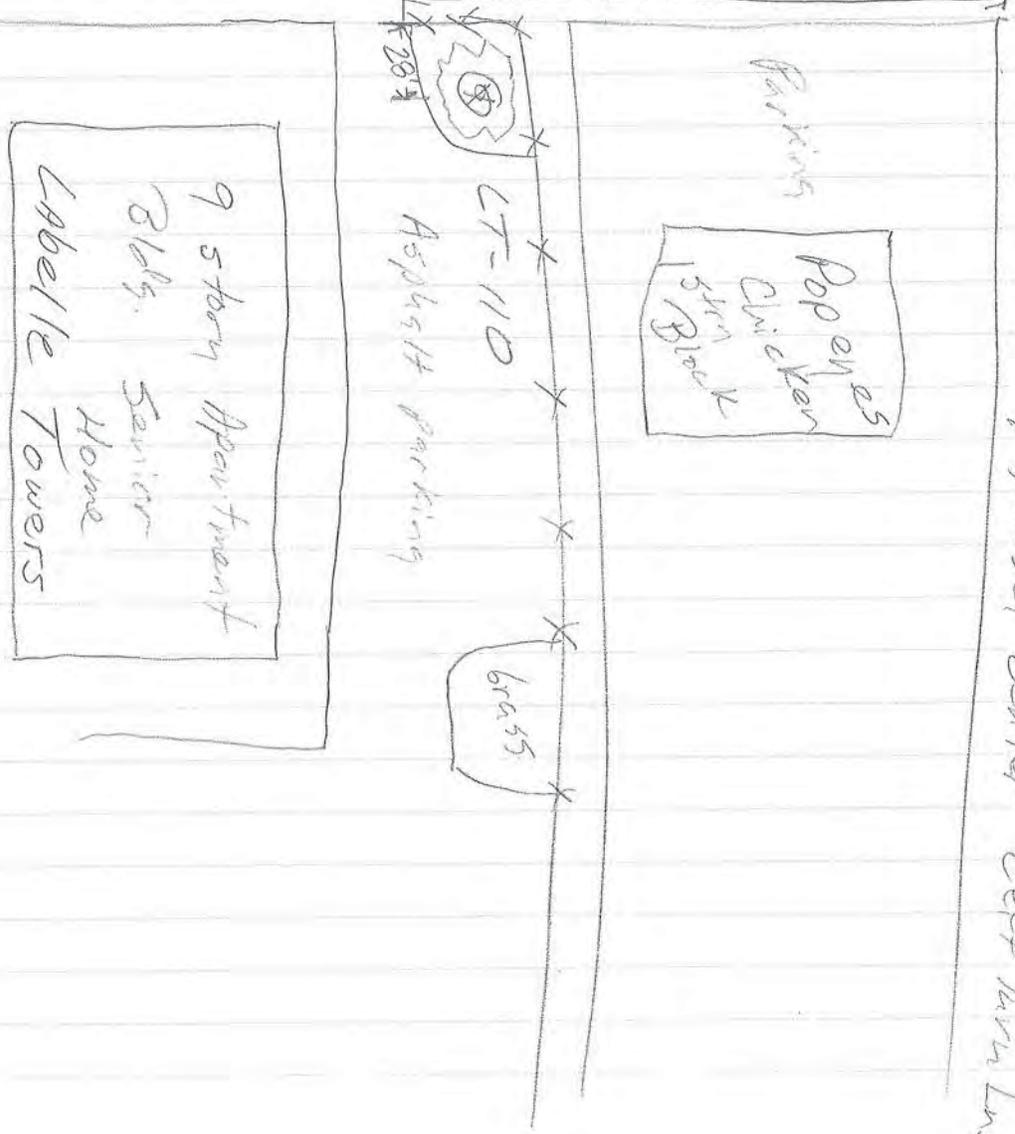
8 Woodland Ave. (6 lanes)

See direction w/ Flash center Left Turn Ln.



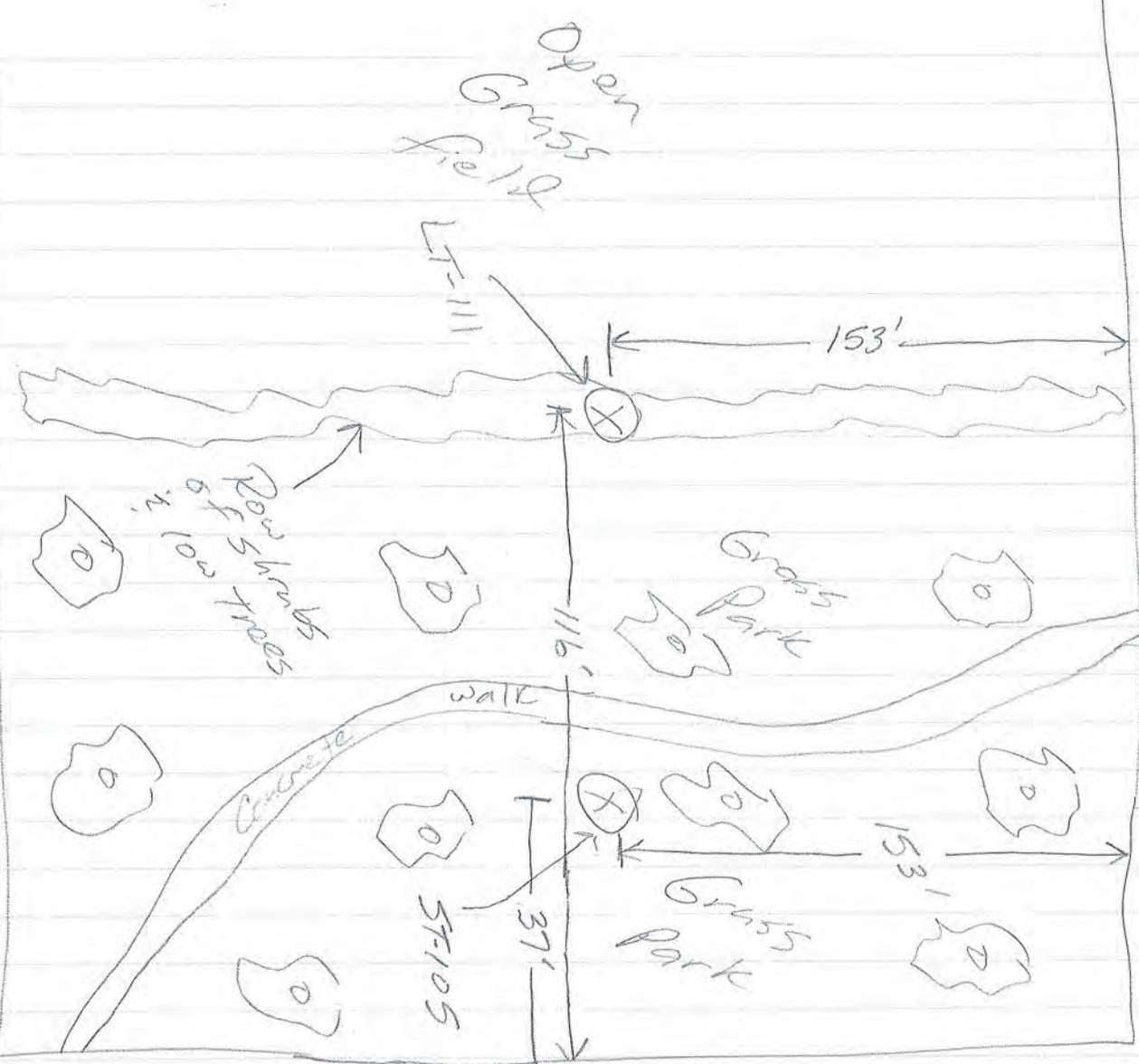
Labelle

249'



North →

Woodward Ave (6 lanes 3 ea. direction) w/ flush center turn lane



Massachusetts

Public
 McGregor
 Library
 2 story
 Concrete
 Bldg.

Alley



FIELD NOISE MEASUREMENT DATA

Project: DT065 Woodward CRT

SITE IDENTIFICATION: LT-112A OBSERVER(s): Byron & Ron
 START DATE & TIME: 10-7-08 15:55 END DATE & TIME: 10-8-08 16:43
 ADDRESS: 11626 Woodward Ave
Hotel Normandie

TEMP: 63 °F HUMIDITY: 46 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED _____ MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVCST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other: Rainy when Retrieved

INSTRUMENT: LD-820 TYPE 1 SERIAL #: 1631
 CALIBRATOR: LD-CAL 200 SERIAL #: 6278

CALIBRATION CHECK: PRE-TEST 114.2 dBA SPL POST-TEST 114.1 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

: L _{eq}	: L _{max}	: L _{min}	: L ₉₀	: L ₅₀	: L ₁₀	:
: L _{eq}	: L _{max}	: L _{min}	: L ₉₀	: L ₅₀	: L ₁₀	:
: L _{eq}	: L _{max}	: L _{min}	: L ₉₀	: L ₅₀	: L ₁₀	:
: L _{eq}	: L _{max}	: L _{min}	: L ₉₀	: L ₅₀	: L ₁₀	:

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:

ROADWAY TYPE: Woodward Ave (6 lanes w/flush med.)

	-MINUTE <u>30-45</u> SPEED (mph)				#2 COUNT:				SPEED (mph)			
	NB	EB	SB	WB	NB	EB	SB	WB	NB	EB	SB	WB
AUTOS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
MED. TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
HVY TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
BUSES:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
MOTORCYCLES:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead RUSTLING LEAVES distant BARKING DOGS BIRDS
distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING distant TRAINS

OTHER: people talking, horns, bus stop

TERRAIN: HARD SOFT MIXED FLAT OTHER:

PHOTOS:

OTHER COMMENTS / SKETCH:

See site LT-112 for site Drawing

wind

max

3.3

avg

2.1

ID

Weather

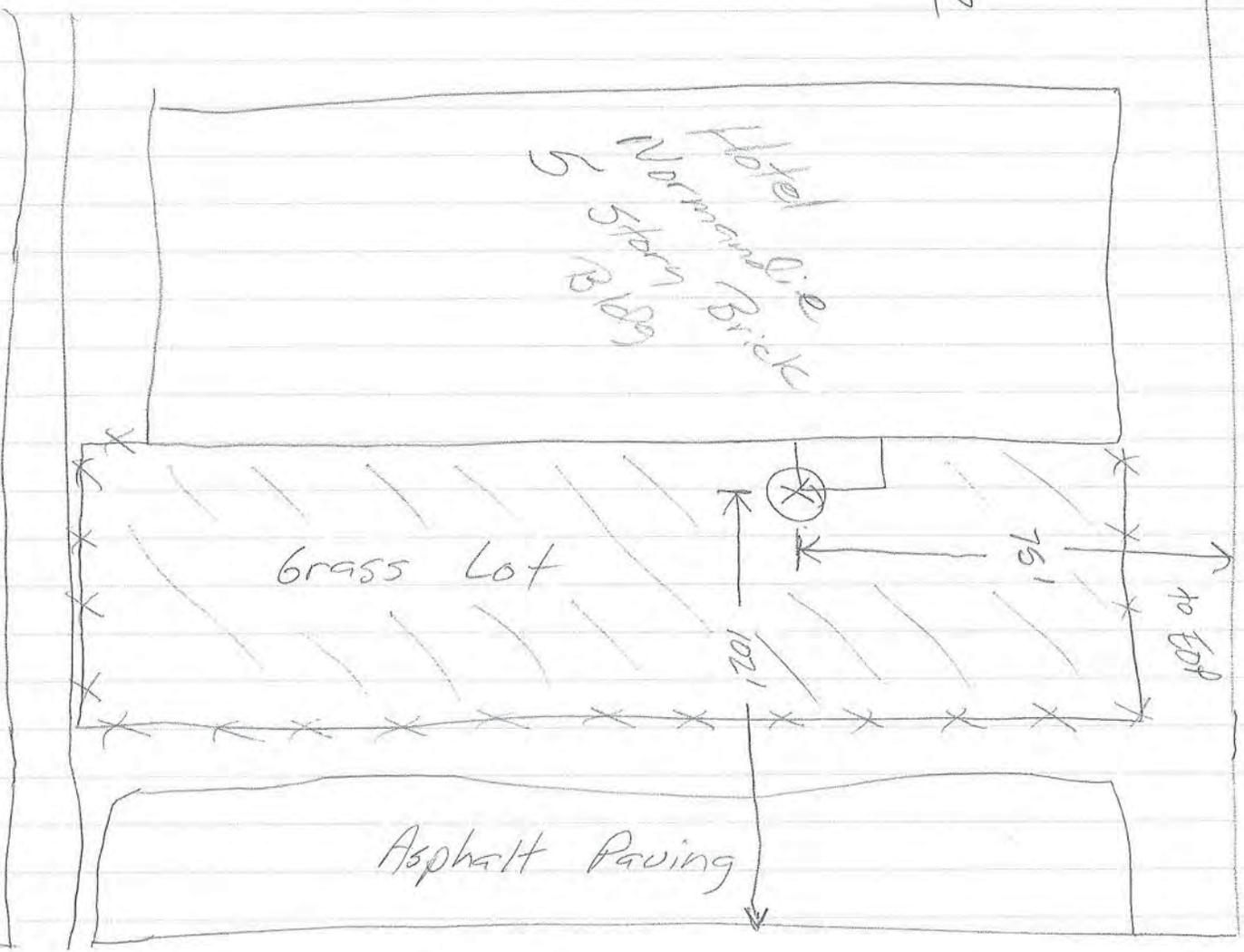
Acoustic Measurements

Source Info and Traffic Counts

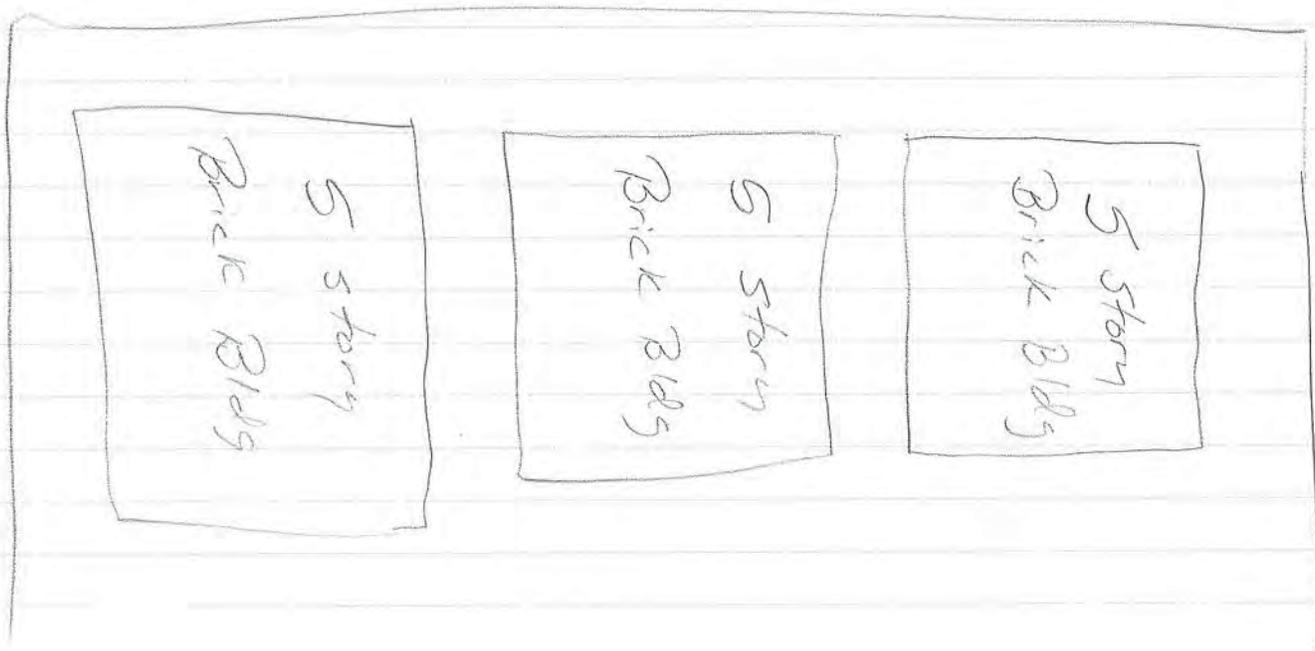
Description / sketch

CT-112

Woodland Ave (6 lanes 3 in. direction w/ flush left turn median



woodland





FIELD NOISE MEASUREMENT DATA

Project: DT065 Woodward LRT

SITE IDENTIFICATION: LT-113 OBSERVER(s): Byron & Ron
 START DATE & TIME: 10-7-08 09:57 END DATE & TIME: 10-8-08 10:00
 ADDRESS: 2 E Buena Vista Highland Park

TEMP: 61 °F HUMIDITY: 56 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED _____ MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVR CST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other: Raining @ End of Reading

INSTRUMENT: LD-820 TYPE: 1 2 SERIAL #: 1687
 CALIBRATOR: LD-CAC 200 SERIAL #: 6278

CALIBRATION CHECK: PRE-TEST 114.1 dBA SPL POST-TEST 114.1 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____, _____
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____, _____
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____, _____
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____, _____

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:

ROADWAY TYPE: Woodward Ave (6 lanes w/ flush center median)

	-MINUTE 30-50 SPEED (mph)				#2 COUNT:				SPEED (mph)			
	NB	EB	SB	WB	NB	EB	SB	WB	NB	EB	SB	WB
AUTOS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
MED. TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
HVY TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
BUSES:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
MOTORCYCLES:												

SPEED ESTIMATED BY: RADAR / DRIVING OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS

OTHER: people talking, school bell ringing, horns

TERRAIN: HARD SOFT MIXED FLAT OTHER:

PHOTOS:

OTHER COMMENTS / SKETCH:

* school releases @ 03:15 pm

wind

max.

1.7

Aug.

1.1

ID

Weather

Acoustic Measurements

Source Info and Traffic Counts

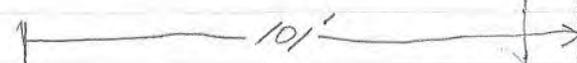
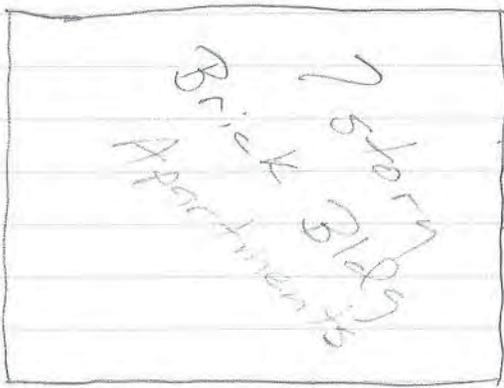
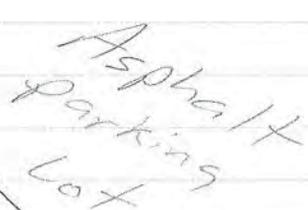
Description / sketch

North

Woodward Ave (6 lanes : 3 lanes ea direction w/ Plus 4 Center turn lane



CT-113

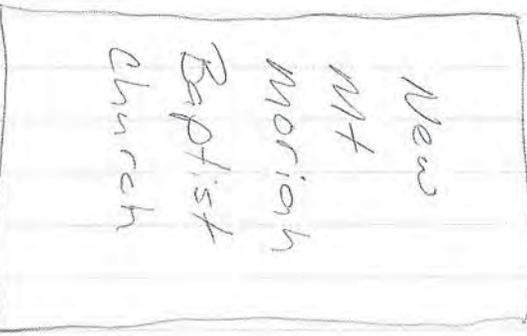
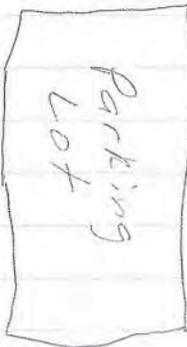
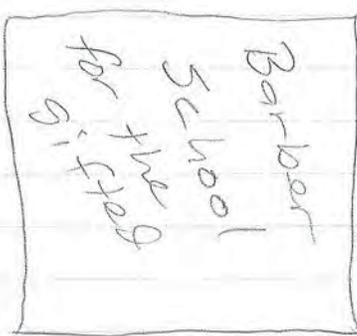


ST-107



82'

Buena Vista



Center turn lane

Woodward Ave (6 lanes 3 lanes each dir w/ Flank

18

Center Turn Lane



Trowbridge

5 Story
Brick
Bldg
Apartments

Asphalt
Parking Lot

North
→



FIELD NOISE MEASUREMENT DATA

Project: DTOGS Woodward CRT

SITE IDENTIFICATION: LT-115 A OBSERVER(s): Byron & Ryan
 START DATE & TIME: 10-8-08 15:00 END DATE & TIME: 10-9-08 15:40
 ADDRESS: 53 - Chicago Blvd.

TEMP: 65 °F HUMIDITY: 81 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED _____ MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVCST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other: Drizzle

INSTRUMENT: LD-820 TYPE: 1 SERIAL #: 1672
 CALIBRATOR: CD-CAC 200 SERIAL #: 6278

CALIBRATION CHECK: PRE-TEST 114.1 dBA SPL POST-TEST 114.0 dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
 ROADWAY TYPE: Woodward Ave (6 lanes w/flush med)
 COUNT DURATION: _____ -MINUTE 30-40 SPEED (mph) #2 COUNT: _____ SPEED (mph)

	NB	EB	SB	WB	NB	EB	SB	WB	NB	EB	SB	WB	NB	EB	SB	WB
AUTOS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
MED. TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
HVY TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
BUSES:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
MOTORCYCLES:																

 SPEED ESTIMATED BY: RADAR / DRIVING OBSERVER
 OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER:

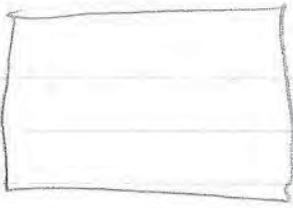
TERRAIN: HARD SOFT MIXED FLAT OTHER:
 PHOTOS:
 OTHER COMMENTS / SKETCH:

see site LT-115 for site Drawing

wind
 max.
 7.2
 Avg.
 4.4

ID
 Weather
 Acoustic Measurements
 Source Info and Traffic Counts
 Description / sketch

213 to street
57' of cur

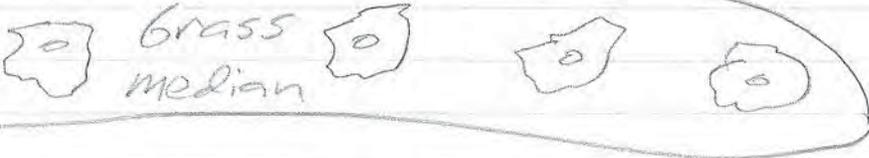


52 Chicago
2 story Brick

20 Chicago
2 story
Brick

Woodward Ave

2 lanes



2 lanes

Chicago Blvd

8

North

1 story
Brick

77 Chicago
2 story
Brick

53 Chicago
2 story
Spaced

LT-115A

LT-115

Vacant
Grass
Lot

6 lanes 3 ea dir w flush left center turn lane

Boston - Edison
Historic District

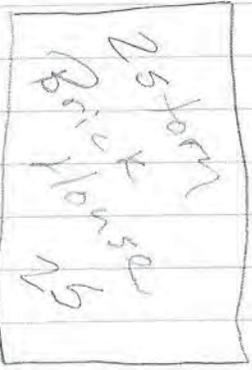
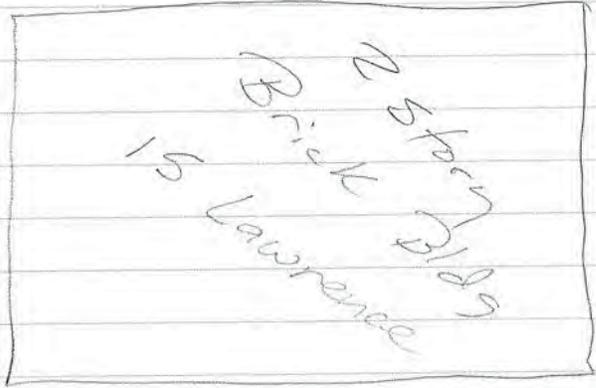
LT-115 213'ft / westward
LT-115A 241'ft / westward

Lawrence

← Pasadena

Woodward Ave (6 lanes w/ flush left turn lane)

← North



Asphalt Alley

156

Grass Lot

133'

Low Shrubs 10-15' high

Grass Lot

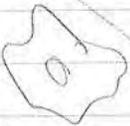
142'

Collingwood

LT-116

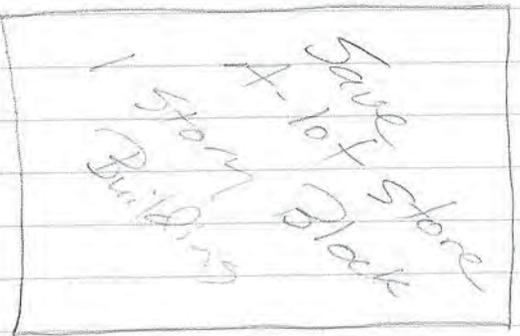
Grass Lot

← Gabriel Information / Outreach Ministries



← North

Woodward Ave (6 lanes)



Parking

Asphalt Parking Lot

Allen

Grass Lot

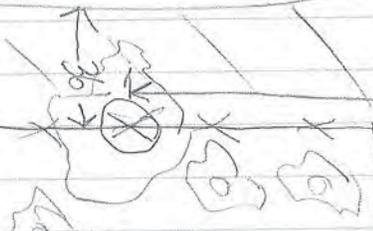
Tuxedo street

8

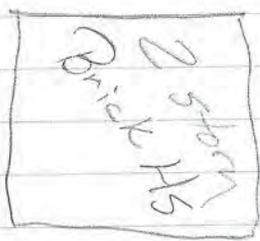
3 each Dir w/ flush center turn lane



18' to 50'



Allen



Short-Term Measurements

FIELD NOISE MEASUREMENT DATA

Project: DTOGS - ~~ERT~~ Woodward LRT

Oct. 30th 12:50
 SITE IDENTIFICATION: _____ OBSERVER(s): Lalonde / Gordon
 START DATE & TIME: ST-00182 END DATE & TIME: OCTOBER 30th 1:20 pm
 ADDRESS: MAYBURY PARK @ Corner of Woodward
DETROIT, MI Adams St

TEMP: 56 °F HUMIDITY: 40.5 % R.H. WIND: CALM (LIGHT) MODERATE VARIABLE
 WINDSPEED 3.1 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY (CLEAR) SUNNY FOG RAIN Other: _____

INSTRUMENT: LD 820 TYPE: 0 2 SERIAL #: 1642
 CALIBRATOR: CAI 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST 114.0 dBA SPL POST-TEST 114.0 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL (RANDOM) ANSI OTHER: _____

① 1 pm	L _{eq}	<u>70.0</u>	L _{max}	<u>89.5</u>	L _{min}	<u>58.7</u>	L ₉₀	<u>62.6</u>	L ₅₀	<u>66.4</u>	L ₁₀	<u>73.9</u>	1:15 pm
② 1:16 pm	L _{eq}	<u>62.4</u>	L _{max}	<u>71.7</u>	L _{min}	<u>55.6</u>	L ₉₀	<u>58.2</u>	L ₅₀	<u>60.9</u>	L ₁₀	<u>65.2</u>	1:30 pm
	L _{eq}		L _{max}		L _{min}		L ₉₀		L ₅₀		L ₁₀		
	L _{eq}		L _{max}		L _{min}		L ₉₀		L ₅₀		L ₁₀		

COMMENTS: ②nd measurement had a quiet fountain 20' away. ①st measurement was near idling buses/bus stops

SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER: Police Sirens - idling Buses
 ROADWAY TYPE: _____

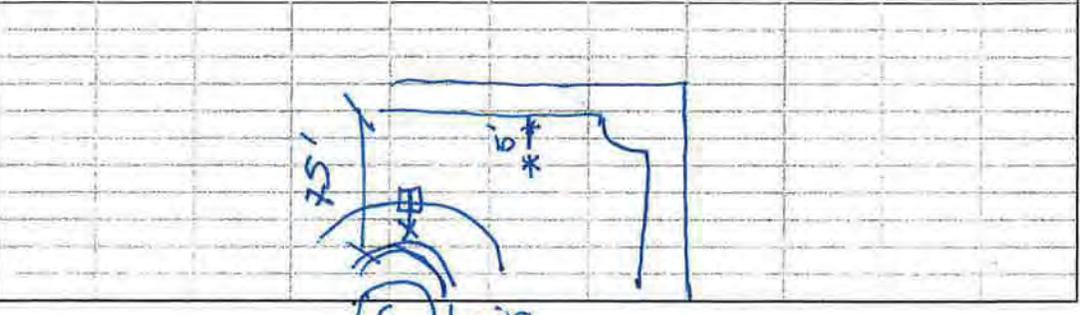
COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB
AUTOS:	_____	_____	_____	_____	_____	_____	_____	_____
MED. TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
HVY TRUCKS:	_____	_____	_____	_____	_____	_____	_____	_____
BUSES:	_____	_____	_____	_____	_____	_____	_____	_____
MOTORCYCLES:	_____	_____	_____	_____	_____	_____	_____	_____

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER: _____

TERRAIN: (HARD) SOFT MIXED (FLAT) OTHER: _____

PHOTOS: _____
 OTHER COMMENTS / SKETCH: _____



ID
Weather
Acoustic Measurements
Source In fo and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

15:05 Project: DTOGS - Woodward LRT

SITE IDENTIFICATION: ST-003 OBSERVER(s): Lalonde / Gordon
START DATE & TIME: Oct 3 08 15:05 END DATE & TIME: 15:35
ADDRESS: AMERICAN Red Cross 3500 Woodward Ave. DETROIT MI 100 MACK

TEMP: 56 °F HUMIDITY: 78.8 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED 1.6 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE: 0 2 SERIAL #: 1642
CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST 114.0 dBA SPL POST-TEST 113.8 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

15:15 : L_eq 69.3 L_max 83.8 L_min 58.0 L_90 60.9 L_50 66.9 L_10 72.7 15:30
: L_eq L_max L_min L_90 L_50 L_10
: L_eq L_max L_min L_90 L_50 L_10
: L_eq L_max L_min L_90 L_50 L_10

COMMENTS: Patrick Zawacki of the American Red Cross 248-217-3907. Contact if 24hr meas. is needed.

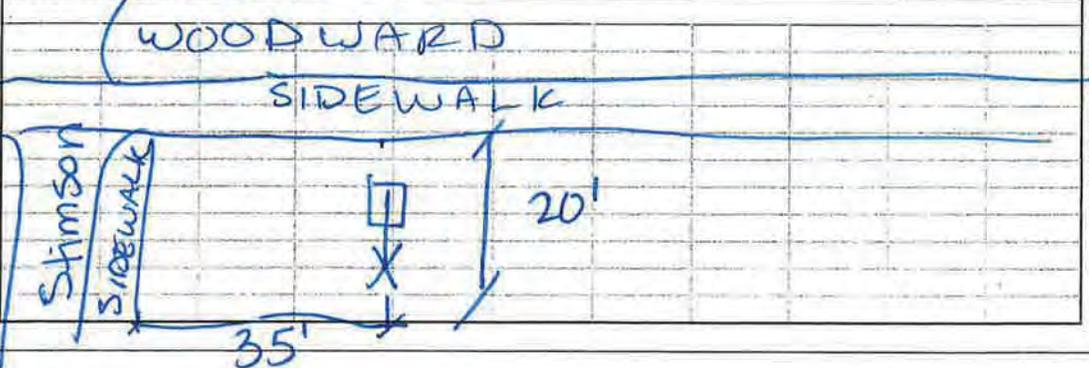
SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: Police Siren (20s)
ROADWAY TYPE:

Table with columns: COUNT DURATION, -MINUTE, SPEED (mph), #2 COUNT, SPEED (mph). Rows include AUTOS, MED. TRUCKS, HVY TRUCKS, BUSES, MOTORCYCLES.

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:

PHOTOS:
OTHER COMMENTS / SKETCH:



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / Sketch



FIELD NOISE MEASUREMENT DATA

9:30 AM Project: DTOGS-Woodward LRT

SITE IDENTIFICATION: ST-004 OBSERVER(S): Lalonde / GORDON
 START DATE & TIME: 10-4-08 9:55 AM END DATE & TIME: 10/4/08 10 AM
 ADDRESS: WOODWARD @ CAMFIELD PARKING LOT
ACROSS FROM WHITNEY HOUSE

TEMP: 60 °F HUMIDITY: 46.6 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 1.3 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE: 0 2 SERIAL #: 1642
 CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST 114.0 dBA SPL POST-TEST 114.0 dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

9:45-10 AM: L_{eq} 66.4, L_{max} 87.1, L_{min} 52.6, L_{90} 58.2, L_{50} 62.9, L_{10} 66.4,
 : L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____,
 : L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____,
 : L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: vehicle no muffler
 ROADWAY TYPE:

COUNT DURATION	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB
AUTOS:	_____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____
MED. TRUCKS:	_____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____
HVY TRUCKS:	_____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____
BUSES:	_____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____
MOTORCYCLES:	_____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS

OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:

PHOTOS:

OTHER COMMENTS / SKETCH:



ID

Weather

Acoustic Measurements

Source Info and Traffic Counts

Description / sketch



FIELD NOISE MEASUREMENT DATA

10:20 Project: DTGS - Woodward & B

SITE IDENTIFICATION: ST-005 OBSERVER(s): GORDON
 START DATE & TIME: 10/4/08 10:30 END DATE & TIME: 10/4/08 10:45 am
 ADDRESS: DETROIT INSTITUTE OF ARTS

TEMP: 63 °F HUMIDITY: 49.4 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 0.8 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVR CST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD 820 TYPE: 1 2 SERIAL #: 1642
 CALIBRATOR: CAL 200 SERIAL #: 6919

CALIBRATION CHECK: PRE-TEST 114.0 dBA SPL POST-TEST dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

10:30-10:45am L_{eq} 7.6, L_{max} 84.5, L_{min} 50.7, L₉₀ 54.4, L₅₀ 64.9, L₁₀ 70.9
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: Woodward Ave
 ROADWAY TYPE:

	COUNT DURATION: 5-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB / EB	SB / WB	NB	EB / SB / WB	NB / EB	SB / WB	NB	EB / SB / WB
AUTOS:	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____
MED. TRUCKS:	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____
HVY TRUCKS:	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____
BUSES:	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____
MOTORCYCLES:	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____	_____ / _____

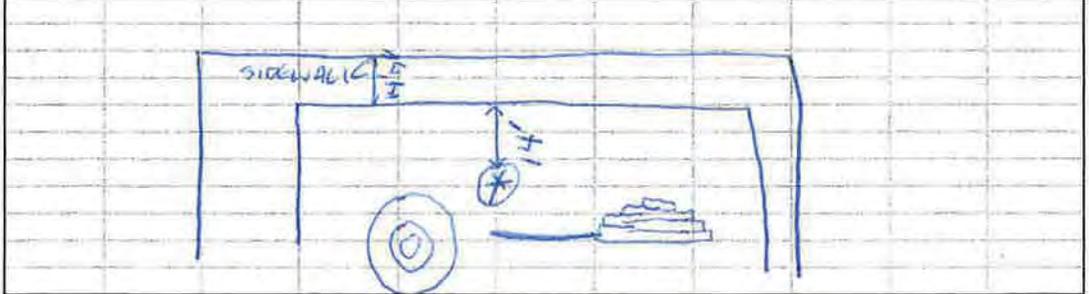
SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:

PHOTOS:

OTHER COMMENTS / SKETCH:



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: DTOGS - Woodward LRT

SITE IDENTIFICATION: ST-006 OBSERVER(s): Lalonde
 START DATE & TIME: 10/4/08 11am END DATE & TIME: 10/4/08 11:15 am
 ADDRESS: WAYNE STATE WELCOME CENTER
WOODWARD & WARREN

TEMP: 57 °F HUMIDITY: 47.4 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 2.1 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD820 TYPE: 02 SERIAL #: 1647
 CALIBRATOR: CAL2000 SERIAL #: 6419
 CALIBRATION CHECK: PRE-TEST 114.0 dBA SPL POST-TEST 114.0 dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
11-11:15 am : L_{eq} 78.2, L_{max} 101.7, L_{min} 53.8, L_{90} 58.7, L_{50} 67.1, L_{10} 73.8,
 : L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____,
 : L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____,
 : L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: AMBULANCE POST TRUCK
 ROADWAY TYPE: _____
 COUNT DURATION: -MINUTE SPEED (mph) #2 COUNT: SPEED (mph)
 NB / EB / SB / WB NB EB / SB WB NB / EB / SB / WB NB EB / SB WB
 AUTOS: _____ / _____ / _____ / _____
 MED. TRUCKS: _____ / _____ / _____ / _____
 HVY TRUCKS: _____ / _____ / _____ / _____
 BUSES: _____ / _____ / _____ / _____
 MOTORCYCLES: _____ / _____ / _____ / _____
 SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER
 OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER: _____

TERRAIN: HARD SOFT MIXED FLAT OTHER: _____
 PHOTOS: _____
 OTHER COMMENTS / SKETCH: _____



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch

DTUGS FIELD NOISE MEASUREMENT DATA

13:50

Project: Woodward LRT

SITE IDENTIFICATION: JT-008 OBSERVER(S): Latonde / GORTON / YOUNG
 START DATE & TIME: Oct 5 1400 END DATE & TIME: Oct 5 08 14.15pm
 ADDRESS: ACROSS FROM WHITNEY HOUSE
4420 WOODWARD

TEMP: 72 °F HUMIDITY: 24.5 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 0.6 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD820 TYPE: 0 2 SERIAL #: 1642
 CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST 114.0 dBA SPL POST-TEST 113.9 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

14:00-14:15: L_{eq} 66.2, L_{max} 80.9, L_{min} 51.7, L_{90} 56.8, L_{50} 69.8, L_{10} 67.4, _____
 _____: L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____, _____
 _____: L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____, _____
 _____: L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____, _____

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____
 ROADWAY TYPE: _____

COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB
AUTOS:	_____	/ _____	_____	/ _____	_____	/ _____	_____	/ _____
MED. TRUCKS:	_____	/ _____	_____	/ _____	_____	/ _____	_____	/ _____
HVY TRUCKS:	_____	/ _____	_____	/ _____	_____	/ _____	_____	/ _____
BUSES:	_____	/ _____	_____	/ _____	_____	/ _____	_____	/ _____
MOTORCYCLES:	_____	/ _____	_____	/ _____	_____	/ _____	_____	/ _____

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

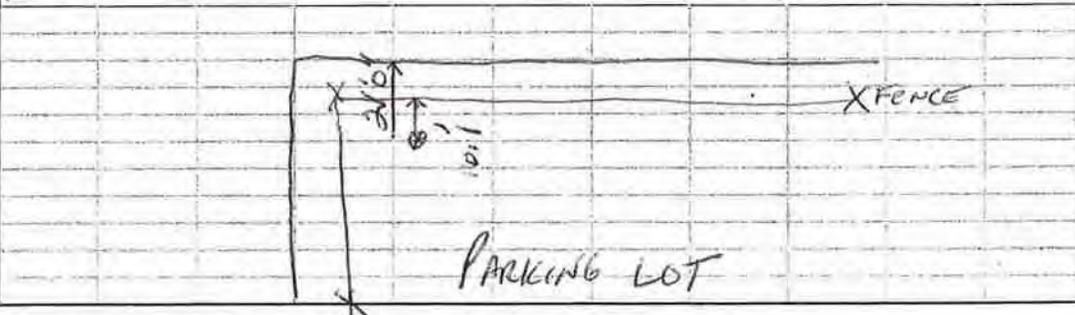
OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS

OTHER: _____

TERRAIN: HARD SOFT MIXED FLAT OTHER: _____

PHOTOS: _____

OTHER COMMENTS / SKETCH: _____



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch

DL18



FIELD NOISE MEASUREMENT DATA

15:25 Project: DTCS - Woodward LRT

SITE IDENTIFICATION: ST-009 OBSERVER(s): Gordon / Young
 START DATE & TIME: Oct 5 08 15:30 END DATE & TIME: Oct 5 08 15:45
 ADDRESS: Detroit Academy
 8401 Woodward

TEMP: 56.2 F HUMIDITY: 36.6% R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED 1.6 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD820 TYPE: 1 2 SERIAL #: 1642
 CALIBRATOR: CAL 200 SERIAL #: 6419

CALIBRATION CHECK: PRE-TEST 1140 dBA SPL POST-TEST dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
 15:30-15:45: L_{eq} 75.9, L_{max} 99.6, L_{min} 53.4, L₉₀ 59.5, L₅₀ 68.4, L₁₀ 74.6

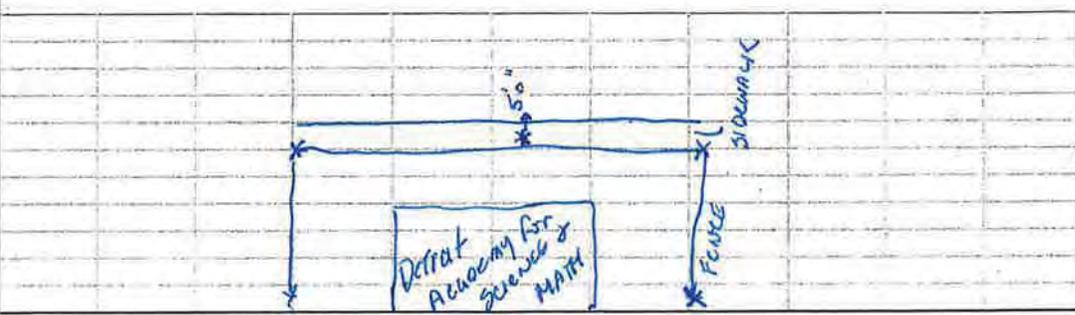
COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: Ambulance Party
 ROADWAY TYPE:

COUNT DURATION:	-MINUTE		SPEED (mph)		#2 COUNT:		SPEED (mph)	
	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB	NB	EB / SB / WB
AUTOS:	/	/	/	/	/	/	/	/
MED. TRUCKS:	/	/	/	/	/	/	/	/
HVY TRUCKS:	/	/	/	/	/	/	/	/
BUSES:	/	/	/	/	/	/	/	/
MOTORCYCLES:	/	/	/	/	/	/	/	/

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER
 OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:
 PHOTOS:
 OTHER COMMENTS / SKETCH:



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: DIOGS... WOODWARD LRT

SITE IDENTIFICATION: ST-010 OBSERVER(s): MELVIN + RON
START DATE & TIME: 10-9-08/12:30 END DATE & TIME: 10-9-08/12:45
ADDRESS: CORNER OF PENGRETT + WOODWARD
860 WOODWARD

TEMP: 71 °F HUMIDITY: 57 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVCST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

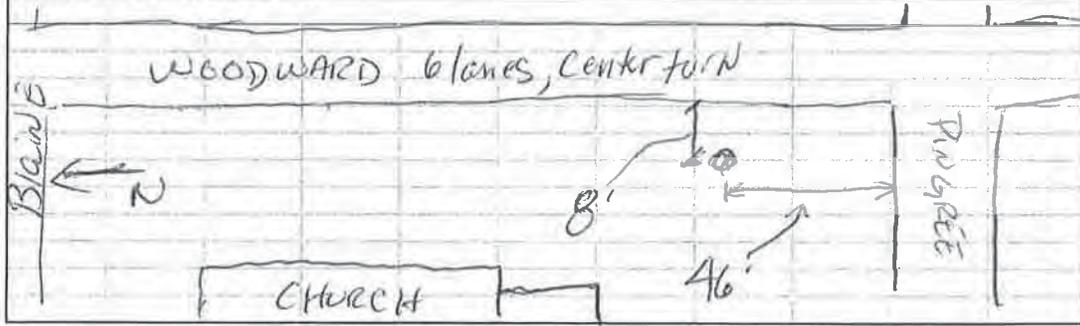
WIND
max
3.3
avg
1.8

INSTRUMENT: LD-820 TYPE: 1 SERIAL #: 1642
CALIBRATOR: LD CAL-200 SERIAL #: 10419
CALIBRATION CHECK: PRE-TEST 114.0 dBA SPL POST-TEST 113.8 dBA SPL WINDSCREEN
SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
12:30-12:45 L_{eq} 71.6, L_{max} 85.9, L_{min} 52.7, L₉₀ 61.5, L₅₀ 69.9, L₁₀ 74.5,
: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT
COUNT DURATION: -MINUTE 30-45 SPEED (mph) #2 COUNT: SPEED (mph)
NB / EB / SB / WB NB EB / SB WB NB / EB / SB / WB NB EB / SB WB
AUTOS: / / _____ / _____
MED. TRUCKS: / / _____ / _____
HVY TRUCKS: / / _____ / _____
BUSES: / / _____ / _____
MOTORCYCLES: / / _____ / _____
SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER
OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
OTHER: People talking

TERRAIN: HARD SOFT MIXED FLAT OTHER:
PHOTOS:
OTHER COMMENTS / SKETCH:



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: DTOGS... WOODWARD LRT

SITE IDENTIFICATION: ST-011 OBSERVER(s): MEVIN + RON
 START DATE & TIME: 10-9-08 13:00 END DATE & TIME: 10-9-08 13:15
 ADDRESS: NORTHERN HIGH SCHOOL - WOODWARD + OWEN

TEMP: 71 °F HUMIDITY: 49 % R.H. WIND: CALM (LIGHT) MODERATE VARIABLE
 WINDSPEED MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVCST PARTLY CLOUDY (CLEAR) (SUNNY) FOG RAIN Other:

INSTRUMENT: LD-820 TYPE: 2 SERIAL #: 1642
 CALIBRATOR: LD-CAL-200 SERIAL #: 6419
 CALIBRATION CHECK: PRE-TEST 113.9 dBA SPL POST-TEST 113.9 dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED (SLOW) FAST FRONTAL (RANDOM) ANSI OTHER:
100-115: L_{eq} 74.0, L_{max} 95.9, L_{min} 56.3, L₉₀ 62.1, L₅₀ 67.0, L₁₀ 72.0

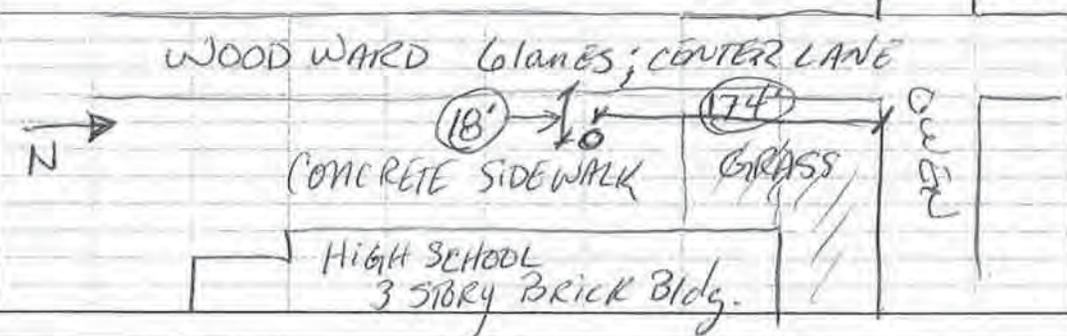
COMMENTS:

SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
 ROADWAY TYPE: ASPHALT
 COUNT DURATION: 30 -MINUTE 45 SPEED (mph) #2 COUNT: SPEED (mph)

	NB / EB		SB / WB		NB / EB		SB / WB	
AUTOS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MED. TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVY TRUCKS:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BUSES:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOTORCYCLES:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER
 OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER: CONSTRUCTION ACROSS STREET, EMS VEHICLES

TERRAIN: (HARD) (SOFT) (MIXED) (FLAT) OTHER:
 PHOTOS:
 OTHER COMMENTS / SKETCH:



WIND
 MAX
 5.4
 AUG
 3.5

ID
 Weather
 Acoustic Measurements
 Source Info and Traffic Counts
 Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: D706 WOODWARD LTR

SITE IDENTIFICATION: ST - 016114 OBSERVER(S): LA LANGE / GORDON
START DATE & TIME: OCT 16 08 14:15 END DATE & TIME: OCT 10 08 14:30
ADDRESS: on the corner of JOHN R + WARREN
Across from Science Center

TEMP: 69 °F HUMIDITY: 24.5 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED 2.1 MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

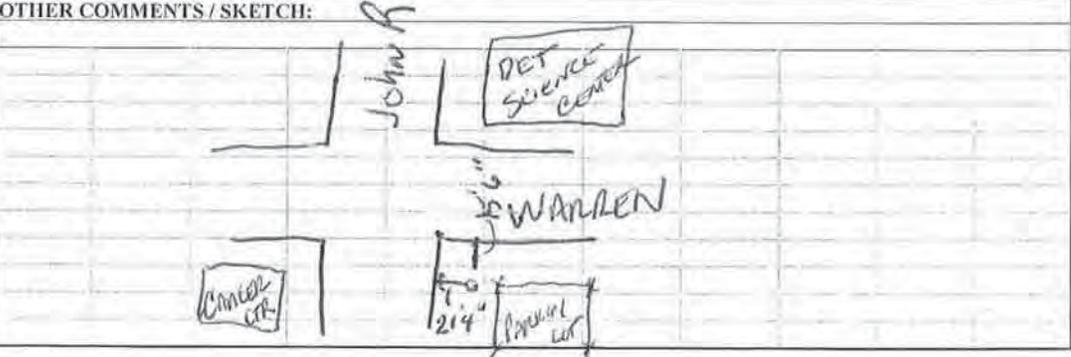
INSTRUMENT: LD 820 TYPE: 1 SERIAL #: 1642
CALIBRATOR: CAL 200 SERIAL #: 6419
CALIBRATION CHECK: PRE-TEST 114.2 dBA SPL POST-TEST dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
14:15 - 14:30: L_{eq} 71.4, L_{max} 83.5, L_{min} 62.7, L_{90} 64.7, L_{50} 68.7, L_{10} 74.2,
: L_{eq} , L_{max} , L_{min} , L_{90} , L_{50} , L_{10} ,
: L_{eq} , L_{max} , L_{min} , L_{90} , L_{50} , L_{10} ,
: L_{eq} , L_{max} , L_{min} , L_{90} , L_{50} , L_{10} ,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE:
COUNT DURATION: -MINUTE SPEED (mph) #2 COUNT: SPEED (mph)
NB / EB / SB / WB NB EB / SB WB NB / EB / SB / WB NB EB / SB WB
AUTOS: _____ / _____ / _____ / _____
MED. TRUCKS: _____ / _____ / _____ / _____
HVY TRUCKS: _____ / _____ / _____ / _____
BUSES: _____ / _____ / _____ / _____
MOTORCYCLES: _____ / _____ / _____ / _____
SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER
OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:
PHOTOS:



ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: DTOGS Woodward CRT

SITE IDENTIFICATION: ST-100 OBSERVER(S): Byron E Row
 START DATE & TIME: 10-3-08 11:00 END DATE & TIME: 10-3-08 11:15
 ADDRESS: 1120 West State Fair Avenue

TEMP: 50 °F HUMIDITY: 51 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD-820 TYPE: (1) 2 SERIAL #: 1672
 CALIBRATOR: LD-Cal 200 SERIAL #: 6278

CALIBRATION CHECK: PRE-TEST 114.1 dBA SPL POST-TEST 114.0 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
11:00-11:15: L_{eq} 54.1, L_{max} 62.6, L_{min} 46.1, L₉₀ 47.7, L₅₀ 52.8, L₁₀ 57.3
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: Buses at station (distant)
 ROADWAY TYPE: 8 lanes w/ grass median 4 lanes each direction

	COUNT DURATION: 15-MINUTE				SPEED (mph)				#2 COUNT:				SPEED (mph)			
	NB	EB	SB	WB												
AUTOS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>35+50 mph</u>				<input checked="" type="checkbox"/>							
MED. TRUCKS:	<input checked="" type="checkbox"/>															
HVY TRUCKS:	<input checked="" type="checkbox"/>															
BUSES:	<input checked="" type="checkbox"/>															
MOTORCYCLES:	<input checked="" type="checkbox"/>															

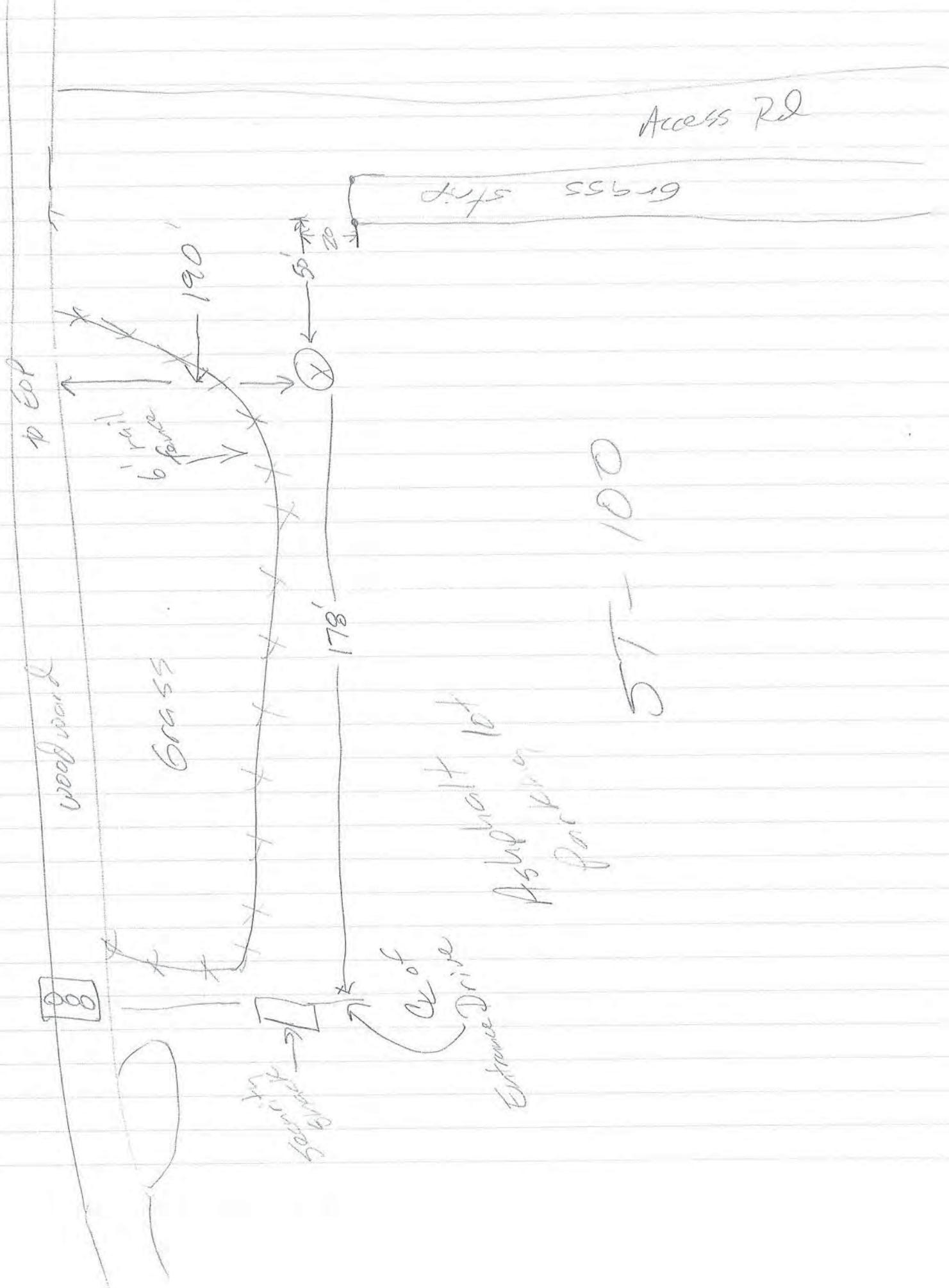
OTHER NOISE SOURCES: distant AIRCRAFT overhead RUSTLING LEAVES / distant BARKING DOGS / BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER: Asphalt Parking lot
 PHOTOS: 19-23

OTHER COMMENTS / SKETCH:

wind
max
10.0
Avg
3.8

ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



Access Rd

Grass Strip

190'

50'

178'

Grass

57-100

Asphalt lot
Pavement

C/O of
Entrance Drive

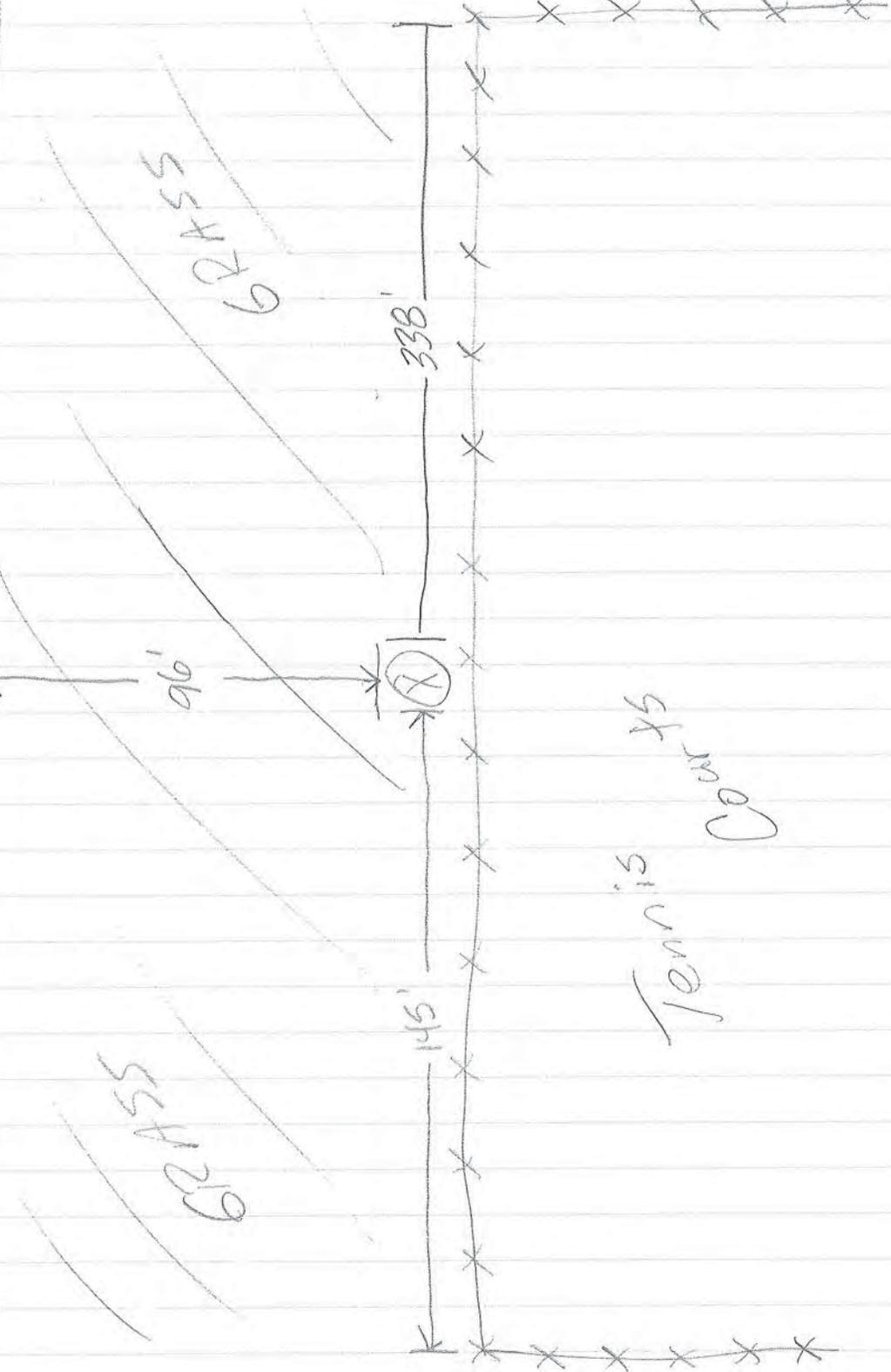
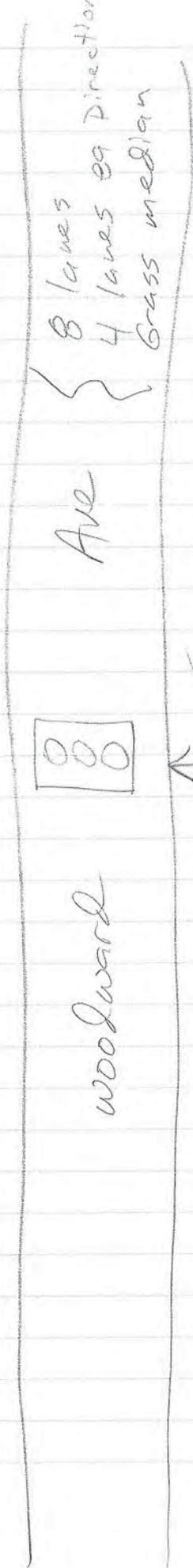
Grass

000

to EOP

Woodward

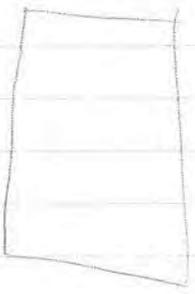
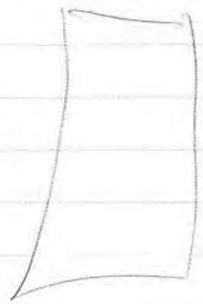
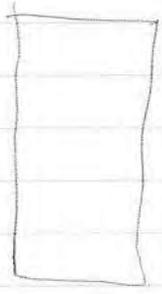
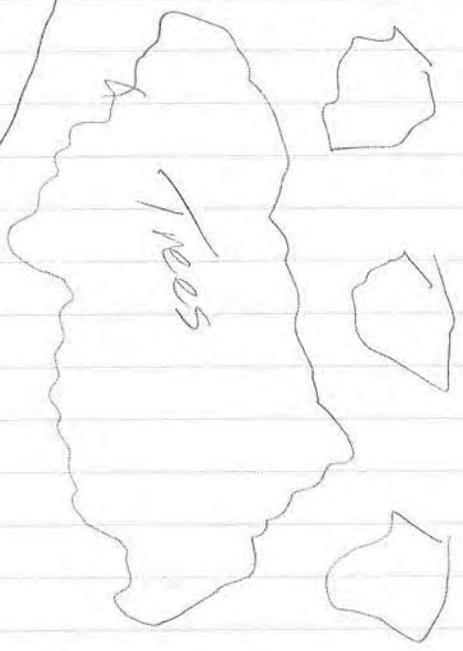
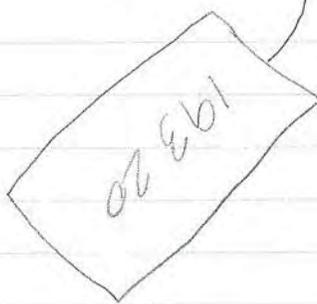
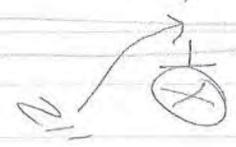
ST- 101



Wellesley 148'

Woodland Ave 10 lanes w/ grass median

Affon



Woodward Ave 10 lanes w/ grass median

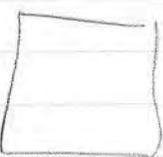
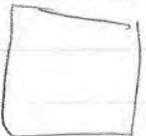
Fontaine
Model

13'

8' 6"

Concrete Alley

319



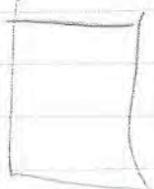
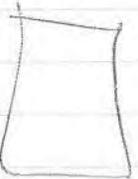
west Montana

Quick
Lane
Auto
Shop

Abandoned
Brick
Bldg

Concrete Alley

324



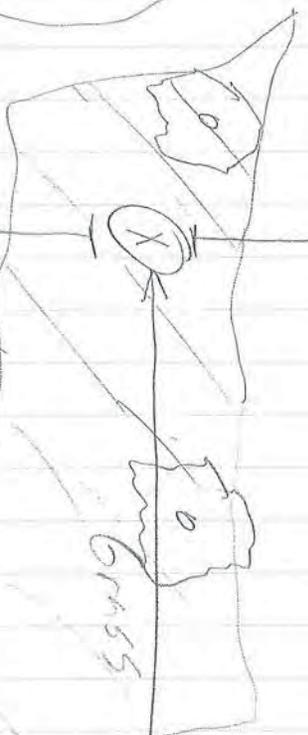
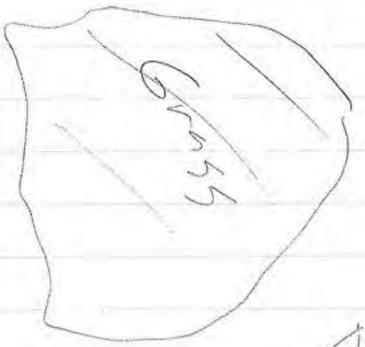
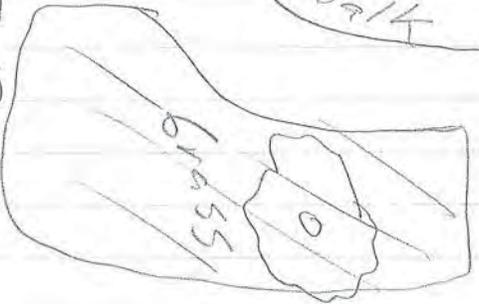
North →

Woodward Ave (3 lanes / 4 ea. dir. w/ flush center turn lane)

Asphalt Drive



120' Concrete Sidewalk



Concrete

134'

184'

2 story Bldg
High School

4
story
Brick
Bldg



FIELD NOISE MEASUREMENT DATA

Project: DT065 Woodward CRT

SITE IDENTIFICATION: ST-105 OBSERVER(s): Byron & Ron
 START DATE & TIME: 10-6-08 16:15 END DATE & TIME: 10-6-08 16:30
 ADDRESS: Massachusetts Avenue Park

TEMP: 62 °F HUMIDITY: 42 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED _____ MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVR CST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other: _____

INSTRUMENT: LD-820 TYPE: 12 SERIAL #: 1672
 CALIBRATOR: LD-CAL 200 SERIAL #: 6278

CALIBRATION CHECK: PRE-TEST 114.1 dBA SPL POST-TEST 113.9 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

16:15-16:30: L_{eq} 59.0, L_{max} 78.5, L_{min} 38.3, L_{90} 47.8, L_{50} 55.7, L_{10} 62.1, _____
 _____: L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____, _____
 _____: L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____, _____
 _____: L_{eq} _____, L_{max} _____, L_{min} _____, L_{90} _____, L_{50} _____, L_{10} _____, _____

COMMENTS: _____

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____
 ROADWAY TYPE: Woodward Ave

	COUNT DURATION: <u>15</u> -MINUTE <u>30</u> <u>50</u>				#2 COUNT:				SPEED (mph)			
	NB	EB	SB	WB	NB	EB	SB	WB	NB	EB	SB	WB
AUTOS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
MED. TRUCKS:	<input checked="" type="checkbox"/>											
HVY TRUCKS:	<input checked="" type="checkbox"/>											
BUSES:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
MOTORCYCLES:												

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead RUSTLING LEAVES distant BARKING DOGS BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS

OTHER: Crickets, people talking, distant hammering, Siren

TERRAIN: HARD SOFT MIXED FLAT OTHER: _____

PHOTOS: _____

OTHER COMMENTS / SKETCH: _____

see CT-111
for Site Drawing

wind
max
4.4
Avg.
2.1

ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch

Distant
Siren



FIELD NOISE MEASUREMENT DATA

Project: DT065 Woodward CRT

SITE IDENTIFICATION: ST-106 OBSERVER(s): Byron & Ron
START DATE & TIME: 10-7-08 09:15 END DATE & TIME: 10-7-08 09:30
ADDRESS: 33 Labelle Towers

TEMP: 59 °F HUMIDITY: 58 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVCST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD-820 TYPE: 1 2 SERIAL #: 1672
CALIBRATOR: LD-CAL 200 SERIAL #: 6278
CALIBRATION CHECK: PRE-TEST 114.0 dBA SPL POST-TEST 114.1 dBA SPL WINDSCREEN
SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
09:15-09:30: L_eq 66.1, L_max 89.2, L_min 53.8, L_90 56.8, L_50 60.1, L_10 64.2

COMMENTS:

Table with columns for SOURCE (TRAFFIC), ROADWAY TYPE (Woodward Ave 6 lanes w/ flush center turn lane), COUNT DURATION (15-MINUTE 30-50), #2 COUNT, and SPEED (mph). Rows include AUTOS, MED. TRUCKS, HVY TRUCKS, BUSES, and MOTORCYCLES.

OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
OTHER: Horns, people talking, siren

TERRAIN: HARD SOFT MIXED FLAT OTHER:
PHOTOS:
OTHER COMMENTS / SKETCH:

Grid area for sketch with handwritten text: see LF-110 for site location drawing

wind
max 1.0
Avg 0.7

ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: DT065 Woodward CRT

SITE IDENTIFICATION: ST-107 OBSERVER(s): Byron & Ron
 START DATE & TIME: 10-8-08 09:30 END DATE & TIME: 10-8-08 09:45
 ADDRESS: 2 E. Buena Vista Highland Park

TEMP: 64 °F HUMIDITY: 72 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED _____ MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVRCAST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other: _____

INSTRUMENT: LD-820 TYPE 12 SERIAL #: 1672
 CALIBRATOR: LD-CAC 200 SERIAL #: 6278

CALIBRATION CHECK: PRE-TEST 114.2 dBA SPL POST-TEST 111.1 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

09:30-09:45 L_{eq} 62.4, L_{max} 72.1, L_{min} 52.0, L₉₀ 55.6, L₅₀ 61.8, L₁₀ 65.1,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 _____ : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,

COMMENTS: wet pavement, distant sirens

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____

ROADWAY TYPE: woodward rd (6 lanes w/ flush med.)

	COUNT DURATION: <u>15</u> -MINUTE <u>30-50</u> SPEED (mph)				#2 COUNT:				SPEED (mph)			
	NB	EB	SB	WB	NB	EB	SB	WB	NB	EB	SB	WB
AUTOS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
MED. TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
HVY TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
BUSES:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
MOTORCYCLES:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								

SPEED ESTIMATED BY: RADAR / DRIVING OBSERVER

OTHER NOISE SOURCES: distant AIRCRAFT overhead RUSTLING LEAVES / distant BARKING DOGS BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS

OTHER: Construction saw, horns, people talking, school bells

TERRAIN: HARD SOFT MIXED FLAT OTHER: _____

PHOTOS: _____

OTHER COMMENTS / SKETCH: _____

See site LT-113 for site drawing

Wind
 Max.
 2.9
 Avg.
 1.4

ID

Weather

Acoustic Measurements

Source Info and Traffic Counts

Description / sketch



FIELD NOISE MEASUREMENT DATA

Project: DTGS ... WOODWARD CRT

SITE IDENTIFICATION: ST-108 OBSERVER(s): MELVIN + RON
 START DATE & TIME: 10/9/08 10:30 END DATE & TIME: 10/9/08 10:45
 ADDRESS: CORNER OF SEARS ST. + WOODWARD

TEMP: 63 °F HUMIDITY: 59.6% R.H. WIND: CALM LIGHT MODERATE VARIABLE
 WINDSPEED MPH DIR: N NE E SE S SW W NW STEADY GUSTY
 SKY: OVCST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD-820 TYPE: 2 SERIAL #: 1642
 CALIBRATOR: CAL-200 SERIAL #: 6419
 CALIBRATION CHECK: PRE-TEST 113.9 dBA SPL POST-TEST 113.1 dBA SPL WINDSCREEN
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
10:30-10:45: L_{eq} 69.5, L_{max} 85.1, L_{min} 53.5, L₉₀ 58.2, L₅₀ 66.5, L₁₀ 77.0,
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 : L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
 COMMENTS:

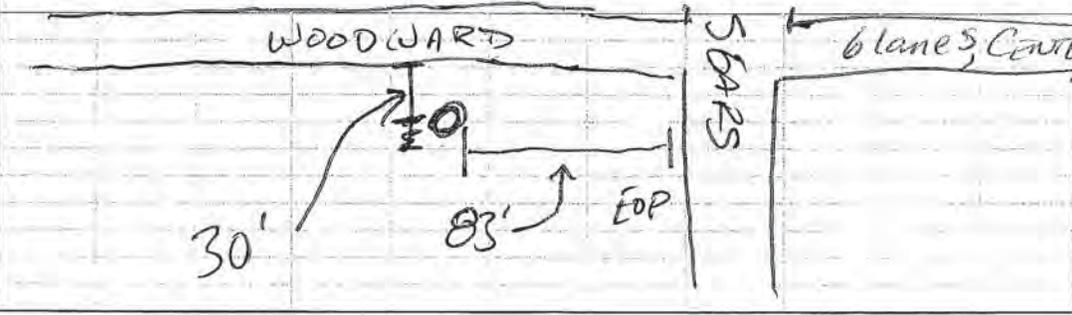
WIND
mix
4.3
AUG
2.1

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
 ROADWAY TYPE: ASPHALT
 COUNT DURATION: -MINUTE 30-45 SPEED (mph) #2 COUNT: SPEED (mph)

	NB/EB	SB/WB	NB/EB/SB/WB	NB/EB/SB/WB	NB/EB/SB/WB
AUTOS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MED. TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVY TRUCKS:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BUSES:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOTORCYCLES:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 SPEED ESTIMATED BY: RADAR / DRIVING OBSERVER
 OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS BIRDS
 distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
 OTHER: people talking

TERRAIN: HARD SOFT MIXED FLAT OTHER:
 PHOTOS:
 OTHER COMMENTS / SKETCH:



ID
 Weather
 Acoustic Measurements
 Source Info and Traffic Counts
 Description / Sketch



FIELD NOISE MEASUREMENT DATA

Project: D106 Woodward LRT

SITE IDENTIFICATION: ST-109 OBSERVER(S): MELVIN + RON
START DATE & TIME: 10-9-08 18:15 END DATE & TIME: 10-9-08 18:30
ADDRESS: PRESBYTERIAN CHURCH - CORNER OF
CORTLAND + WOODWARD

TEMP: 72 °F HUMIDITY: 24 % R.H. WIND: CALM LIGHT MODERATE VARIABLE
WINDSPEED MPH DIR: N NE E SE S SW W NW STEADY GUSTY
SKY: OVR CST PARTLY CLOUDY CLEAR SUNNY FOG RAIN Other:

INSTRUMENT: LD-820 TYPE: 12 SERIAL #: 1642
CALIBRATOR: LD CAL 200 SERIAL #: 6419

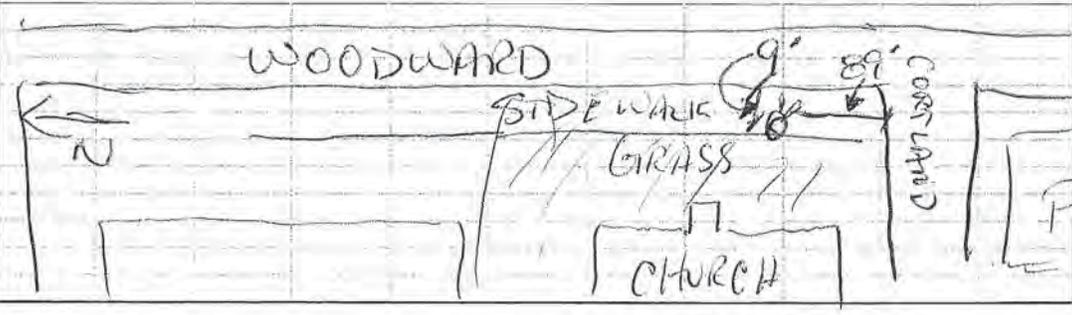
CALIBRATION CHECK: PRE-TEST 114.0 dBA SPL POST-TEST 114.1 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:
18:15-18:30 L_{eq} 70.6, L_{max} 82.3, L_{min} 52.9, L₉₀ 59.7, L₅₀ 68.6, L₁₀ 73.2,
: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,
: L_{eq} _____, L_{max} _____, L_{min} _____, L₉₀ _____, L₅₀ _____, L₁₀ _____,

COMMENTS:

SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT
COUNT DURATION: 30 -MINUTE 30-45 SPEED (mph) #2 COUNT: SPEED (mph)
NB / EB / SB / WB NB EB / SB WB NB / EB / SB / WB NB EB / SB WB
AUTOS: / / / / / / /
MED. TRUCKS: / / / / / / /
HVY TRUCKS: / / / / / / /
BUSES: / / / / / / /
MOTORCYCLES: / / / / / / /
SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER
OTHER NOISE SOURCES: distant AIRCRAFT overhead / RUSTLING LEAVES / distant BARKING DOGS / BIRDS
distant CHILDREN PLAYING / distant TRAFFIC / distant LANDSCAPING / distant TRAINS
OTHER:

TERRAIN: HARD SOFT MIXED FLAT OTHER:
PHOTOS:
OTHER COMMENTS / SKETCH:



WIND
MAY
2.7
AUG.
1.7

ID
Weather
Acoustic Measurements
Source Info and Traffic Counts
Description / sketch