



Citywide Signal Warrant Study

East Cleveland, Ohio

Prepared by:

URS

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Akron, Ohio 44320
File #15017600

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Executive Summary

URS has been retained by the City of East Cleveland to perform a citywide signal warrant study. The results of this study will be used in establishing a program for upgrading and replacing the City's signals, including a determination of whether any signals should be removed.

The following fifty (50) intersections are included in the study area. All intersections are either signalized or have recently had signals placed on flash or removed.

1. Elm Avenue/Coit Avenue/E. 152nd Street
2. Euclid Avenue/Belmore Avenue/Holyoke Avenue
3. Euclid Avenue/Burnette Avenue/Collamer Avenue
4. Euclid Avenue/Coit Avenue
5. Euclid Avenue/Delmont Avenue
6. Euclid Avenue/Doan Avenue
7. Euclid Avenue/Eddy Road
8. Euclid Avenue/Emily Street/Rosalind Avenue
9. Euclid Avenue/Forest Hills Boulevard/Wheeler Street
10. Euclid Avenue/Hillsboro Road
11. Euclid Avenue/Lakeview Road
12. Euclid Avenue/Lee Road
13. Euclid Avenue/Marloes Avenue
14. Euclid Avenue/Noble Road
15. Euclid Avenue/Rosemont Road/Walgreens Driveway
16. Euclid Avenue/RTA Drive/Parking Lot
17. Euclid Avenue/Shaw Avenue
18. Euclid Avenue/Stanwood Road/Strathmore Avenue
19. Euclid Avenue/Superior Road
20. Euclid Avenue/Taylor Road
21. Euclid Avenue/Beersford Road/RTA Bus Drive
22. Hayden Avenue/Alder Avenue
23. Hayden Avenue/Doan Avenue/RTA/Fifth Avenue
24. Hayden Avenue/Holyoke Avenue
25. Hayden Avenue/Lakefront Avenue
26. Hayden Avenue/Mann Avenue
27. Hayden Avenue/Northfield Avenue/Claiborne Road
28. Hayden Avenue/Shaw Avenue
29. Hayden Avenue/Sixth Avenue/Mayfair Avenue
30. Hayden Avenue/Strathmore Avenue
31. Lee Road/Forest Hills Boulevard
32. Noble Road/General Electric
33. Noble Road/Helmsdale Road
34. Noble Road/Nela View Road

35. Noble Road/Terrace Road
36. Shaw Avenue/Allegheny Avenue
37. Shaw Avenue/E. 133rd Street
38. Superior Road/Coventry Road
39. Superior Road/Eddington Road
40. Superior Avenue/Emily Street/RTA
41. Superior Road/Glenmont Road
42. Superior Avenue/Hayden Avenue
43. Superior Avenue/Lockwood Avenue
44. Superior Road/Terrace Road
45. Terrace Road/Belmore Avenue
46. Terrace Road/Forest Hills Boulevard
47. Terrace Road/Lee Road
48. Terrace Road/Marloes Avenue/Rosemont Road
49. Terrace Road/Taylor Road
50. Woodsworth Avenue/Coit Avenue/Wemple Road/E. 146th Street

Signal warrant analysis has been performed using 9-hour turning movement counts performed during May and June 2011. The results indicate that seventeen (17) study intersections including seven school signals meet at least one of the signal warrants.

The following thirty-three (33) signals currently do not meet any signal warrants.

- Elm Avenue/Coit Avenue/E. 152nd Street
- Euclid Avenue/Belmore Avenue/Holyoke Avenue
- Euclid Avenue/Burnette Avenue/Collamer Avenue
- Euclid Avenue/Coit Avenue
- Euclid Avenue/Delmont Avenue
- Euclid Avenue/Doan Avenue
- Euclid Avenue/Hillsboro Road
- Euclid Avenue/Lakeview Road
- Euclid Avenue/Lee Road
- Euclid Avenue/Rosemont Road/Walgreens Driveway
- Euclid Avenue/RTA Drive/Parking Lot
- Euclid Avenue/Beersford Road/RTA Bus Drive
- Hayden Avenue/Alder Avenue
- Hayden Avenue/Doan Avenue/RTA/Fifth Avenue
- Hayden Avenue/Holyoke Avenue
- Hayden Avenue/Lakefront Avenue
- Hayden Avenue/Mann Avenue
- Hayden Avenue/Northfield Avenue/Claiborne Road
- Hayden Avenue/Strathmore Avenue
- Noble Road/General Electric
- Noble Road/Helmsdale Road

- Noble Road/Nela View Road
- Shaw Avenue/E. 133rd Street
- Superior Road/Coventry Road
- Superior Road/Eddington Road
- Superior Avenue/Emily Street/RTA
- Superior Road/Glenmont Road
- Superior Avenue/Hayden Avenue
- Superior Avenue/Lockwood Avenue
- Terrace Road/Belmore Avenue
- Terrace Road/Lee Road
- Terrace Road/Taylor Road
- Woodsworth Avenue/Coit Avenue/Wemple Road/E. 146th Street

The signal at Woodsworth Avenue/Coit Avenue/Wemple Road/E. 146th Street is within the jurisdiction of the City of Cleveland and is maintained by that municipality. No decision on removal or retention should be made by the City of East Cleveland.

The unwarranted signals should be removed by the City or as part of a citywide signal improvement project. In summary, of the fifty (50) intersections reviewed, seventeen (17) are warranted and should remain and thirty-two (32) signals should be removed.

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Kevin P. Westbrooks, Reg. Engineer No. 65607

Section 1
Introduction

1.0 Introduction

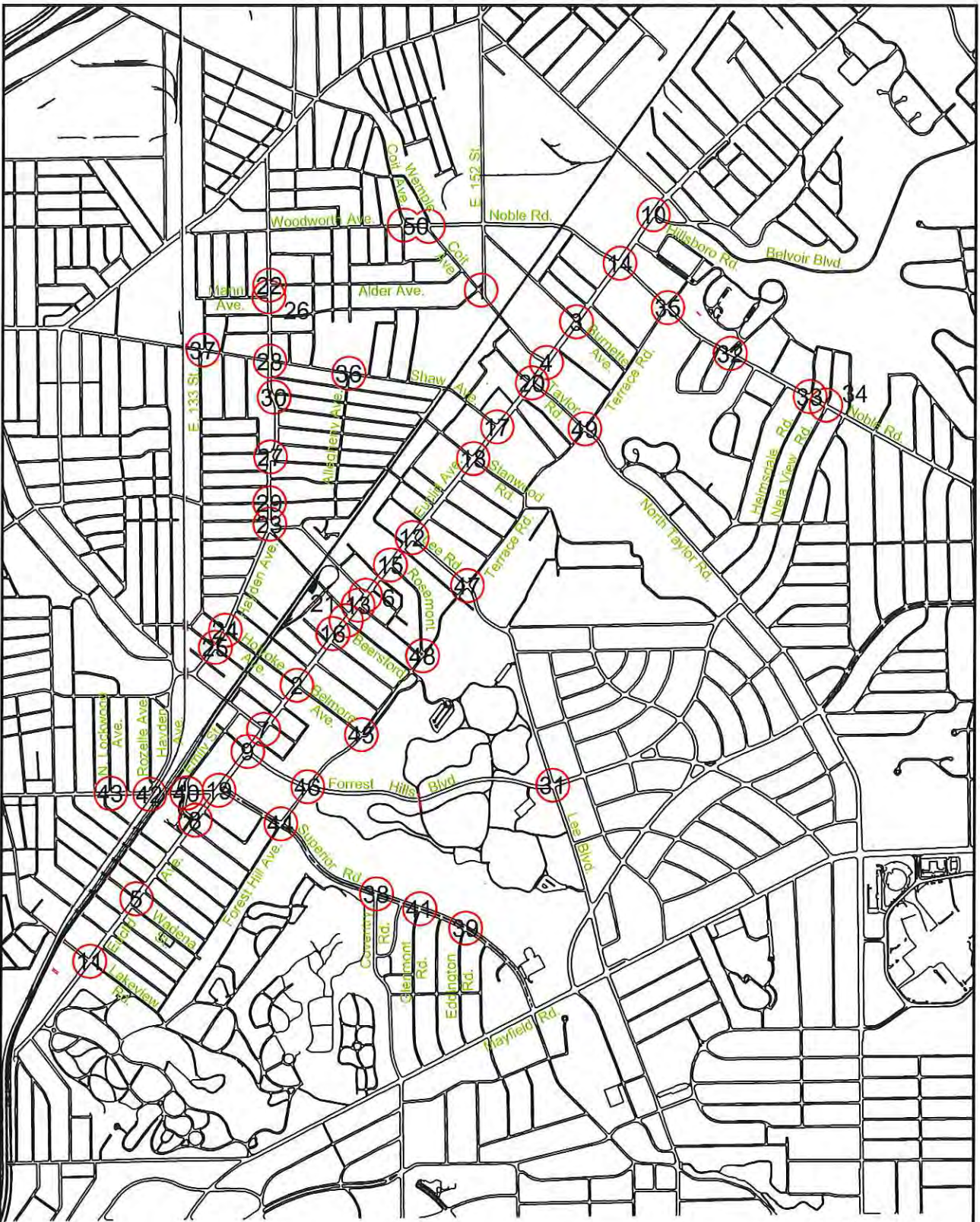
URS has been retained by the City of East Cleveland to perform a citywide signal warrant study. The results of this study will be used in establishing a program for upgrading and replacing the City's signals, including a determination of whether any signals should be removed.

1.1 Site Scope

A total of fifty (50) intersections are included in this study. All intersections are either signalized, or have recently had the signals removed or placed in flash mode. **Exhibit 1** presents a map of the area, with each intersection identified. A listing of the study intersections is provided below.

1. Elm Avenue/Coit Avenue/E. 152nd Street
2. Euclid Avenue/Belmore Avenue/Holyoke Avenue
3. Euclid Avenue/Burnette Avenue/Collamer Avenue
4. Euclid Avenue/Coit Avenue
5. Euclid Avenue/Delmont Avenue
6. Euclid Avenue/Doan Avenue
7. Euclid Avenue/Eddy Road
8. Euclid Avenue/Emily Street/Rosalind Avenue
9. Euclid Avenue/Forest Hills Boulevard/Wheeler Street
10. Euclid Avenue/Hillsboro Road
11. Euclid Avenue/Lakeview Road
12. Euclid Avenue/Lee Road
13. Euclid Avenue/Marloes Avenue
14. Euclid Avenue/Noble Road
15. Euclid Avenue/Rosemont Road/Walgreens Driveway
16. Euclid Avenue/RTA Drive/Parking Lot
17. Euclid Avenue/Shaw Avenue
18. Euclid Avenue/Stanwood Road/Strathmore Avenue
19. Euclid Avenue/Superior Road
20. Euclid Avenue/Taylor Road
21. Euclid Avenue/Beersford Road/RTA Bus Drive
22. Hayden Avenue/Alder Avenue
23. Hayden Avenue/Doan Avenue/RTA/Fifth Avenue
24. Hayden Avenue/Holyoke Avenue
25. Hayden Avenue/Lakefront Avenue
26. Hayden Avenue/Mann Avenue
27. Hayden Avenue/Northfield Avenue/Claiborne Road
28. Hayden Avenue/Shaw Avenue
29. Hayden Avenue/Sixth Avenue/Mayfair Avenue
30. Hayden Avenue/Strathmore Avenue
31. Lee Road/Forest Hills Boulevard
32. Noble Road/General Electric

33. Noble Road/Helmsdale Road
34. Noble Road/Nela View Road
35. Noble Road/Terrace Road
36. Shaw Avenue/Allegheny Avenue
37. Shaw Avenue/E. 133rd Street
38. Superior Road/Coventry Road
39. Superior Road/Eddington Road
40. Superior Avenue/Emily Street/RTA
41. Superior Road/Glenmont Road
42. Superior Avenue/Hayden Avenue
43. Superior Avenue/Lockwood Avenue
44. Superior Road/Terrace Road
45. Terrace Road/Belmore Avenue
46. Terrace Road/Forest Hills Boulevard
47. Terrace Road/Lee Road
48. Terrace Road/Marloes Avenue/Rosemont Road
49. Terrace Road/Taylor Road
50. Woodsworth Avenue/Coit Avenue/Wemple Road/E. 146th Street



NOT TO SCALE



EXHIBIT 1
STUDY AREA MAP
CITYWIDE SIGNAL WARRANT STUDY
EAST CLEVELAND, OHIO



564 White Pond Drive Akron, Ohio 44320-1100 (330) 836-9111

Section 2
Existing Conditions

2.0 Existing Conditions

The following sections provide information on the physical characteristics of the roadway system in the study area, existing traffic control, and traffic turning movement counts.

2.1 Existing Roadways

Euclid Avenue (US 6, US 20) is classified as a principal urban arterial west of Superior Avenue and a minor urban arterial east of Superior. Euclid Avenue serves the City of East Cleveland and connects to other communities in Cuyahoga County. Through the study area Euclid Avenue runs in a southwest-northeast direction. There are two through lanes in each direction with additional dedicated turning lanes at various intersections. In 2010, Euclid Avenue carried an average daily traffic (ADT) volume ranging from 11,000 to 22,000 vehicles in the study area, as reported by the Ohio Department of Transportation Office of Technical Services. The posted speed limit on Euclid Avenue is 35 mph.

Superior Road is an urban minor arterial traversing the City of East Cleveland and other communities in Cuyahoga County. It is primarily a four-lane road with turn lanes provided at some intersections; east of Euclid Avenue there are three lanes in each direction with a center raised median and on-street parking permitted in some areas. West of Euclid Avenue the street is called Superior Avenue and is designated as US 6. Through the study area Superior Road runs primarily in a northwest-southeast direction. The speed limit varies between 25 mph and 35 mph.

The other roadways within the study area are a mix of collectors and local streets primarily serving residential neighborhoods.

2.2 Existing Traffic Control

The fifty (50) intersections included in this study are currently either signalized or have recently had the signals removed or placed on flash.

2.3 Existing Traffic Volumes

Detailed turning movement counts were performed by URS at each study intersection during May and June 2011. Pedestrians were counted at selected intersections determined by the City. Those intersections were counted before school dismissed for the summer to insure that school traffic was included. These traffic volumes have been used to perform the traffic signal warrants. The original traffic counts are included in **Appendix A**.

Section 3
Signal Warrant Analysis

3.0 Signal Warrant Analysis

The data collected in the previous section was used to perform a traffic signal warrant analysis. The Ohio Manual of Uniform Traffic Control Devices (OMUTCD)¹ defines the traffic signal warrants and presents the methodologies for their use. Following a brief explanation of the traffic signal warrants, the specific analysis results for the subject intersection are presented.

3.1 Traffic Signal Warrants

The OMUTCD, supported by the Ohio Revised Code, states that traffic control signals should not be installed unless one or more of the signal warrants in the Manual are met. This section presents the eight traffic signal warrants, as presented in the OMUTCD, along with a brief explanation of each.

Warrant #1, Eight-Hour Vehicular Volume – The Minimum Vehicular Volume, Condition A, is intended for application at locations where a large volume of intersecting traffic is the principal reason to consider installing a traffic control signal.

The Interruption of Continuous Traffic, Condition B, is intended for application at locations where the traffic volume on a major street is so heavy that traffic on a minor intersecting street suffers excessive delay or conflict in entering or crossing the major street.

It is intended that Warrant 1 be treated as a single warrant. If Condition A is satisfied, then the criteria for Warrant 1 are satisfied and Condition B and the combination of Conditions A and B are not needed. Similarly, if Condition B is satisfied, then the criteria for Warrant 1 are satisfied and the combination of Conditions A and B is not needed.

Warrant #2, Four-Hour Vehicular Volume - The Four-Hour Vehicular Volume signal warrant conditions are intended to be applied where the volume of intersecting traffic is the principal reason to consider installing a traffic control signal.

Warrant #3, Peak Hour - The Peak Hour signal warrant is intended for use at a location where traffic conditions are such that for a minimum of 1 hour of an average day, the minor-street traffic suffers undue delay when entering or crossing the major street.

¹"Ohio Manual Of Uniform Traffic Control Devices", Ohio Department of Transportation, 2005 Edition.

A signal installed under the Peak Hour warrant should be traffic actuated. Consideration should be given to operating the signal in the flashing mode during off-peak periods.

Warrant #4, Pedestrian Volume - The Pedestrian Volume signal warrant is intended for application where the traffic volume on a major street is so heavy that pedestrians experience excessive delay in crossing the major street.

The need for a traffic control signal at an intersection or midblock crossing shall be considered if an engineering study finds that the number of pedestrians meets certain thresholds based on a 4-hour or a peak hour graph. The minimum hourly number of pedestrians is 100.

The pedestrian Volume signal warrant shall not be applied at locations where the distance to the nearest traffic control signal along the major street is less than 300 ft, unless the proposed traffic control signal will not restrict the progressive movement of traffic.

Warrant #5, School Crossing - The School Crossing signal warrant is intended for application where the fact that school children cross the major street is the principal reason to consider installing a traffic control signal.

Before a decision is made to install a traffic control signal, consideration shall be given to the implementation of other remedial measures, such as warning signs and flashers, school speed zones, school crossing guards, or a grade-separated crossing.

The School Crossing signal warrant shall not be applied at locations where the distance to the nearest traffic control signal along the major street is less than 300 ft, unless the proposed traffic control signal will not restrict the progressive movement of traffic.

Warrant #6, Coordinated Signal System - Progressive movement in a coordinated signal system sometimes necessitates installing traffic control signals at intersections where they would not otherwise be needed in order to maintain proper platooning of vehicles.

The need for a traffic control signal shall be considered if an engineering study finds that one of the following criteria is met:

- A. On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals are so far apart that they do not provide the necessary degree of vehicular platooning.
- B. On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

The coordinated Signal System should not be applied where the resultant spacing of traffic control signals would be less than 1000 ft.

Warrant #7, Crash Experience - The Crash Experience signal warrant conditions are intended for application where the severity and frequency of crashes are the principal reasons to consider installing a traffic control signal. The crashes must be of a type that is correctable by a traffic signal. Therefore, if a traffic signal is already in place, this warrant cannot be used to justify the installation.

Warrant #8, Roadway Network - Installing a traffic control signal at some intersections might be justified to encourage concentration and organization of traffic flow on a roadway network. The intersection must be projected to meet Warrant 1, 2 or 3 within the next five years.

Warrant #9, Intersection Near a Grade Crossing - This warrant is intended for use at a location where none of the conditions described in the other eight traffic signal warrants are met, but the proximity to the intersection of a grade crossing on an intersection approach controlled by a STOP or YIELD sign is the principal reason to consider installing a traffic control signal.

3.2 Signal Warrant Analysis Results

The traffic signal warrant analysis was conducted at all study intersections to determine if signalization is warranted. The following table summarizes the results of the signal warrant analyses. All supporting data, including the standard ODOT Signal Warrant sheets, can be found in **Appendix B**.

Summary of Signal Warrant Analysis
East Cleveland, Ohio

INTERSECTION	Warrant #1		Warrant #2		Warrant #3		Warrant #4	Warrant #5			
	Hours Met	Warrant Met?	Hours Met	Warrant Met?	Hours Met	Warrant Met?	Warrant Met?	# Children	Maj. St. Width/ Min. Gap Req'd	# Gaps	Warrant Met?
Elm / Coit / E. 152nd	0	NO	0	NO	0	NO	NO				
Euclid / Belmore / Holyoke	0	NO	0	NO	0	NO	NO				
Euclid / Burnette / Collamer	0	NO	0	NO	0	NO	NO				
Euclid / Coit	3	NO	1	NO	0	NO	NO				
Euclid / Delmont	0	NO	0	NO	0	NO	NO				
Euclid / Doan	0	NO	0	NO	0	NO	NO				
Euclid / Eddy	8	YES	6	YES	0	NO	NO				
Euclid / Emily / Rosalind	0	NO	0	NO	0	NO	NO	20 (3-4pm)	Euclid 63'/18 sec	6	YES
Euclid / FHB / Wheeler	8	YES	9	YES	2	YES	NO				
Euclid / Hillsboro	0	NO	0	NO	0	NO	NO				
Euclid / Lakeview	3	NO	1	NO	0	NO	NO				
Euclid / Lee	3	NO	1	NO	0	NO	NO				
Euclid / Marloes	0	NO	0	NO	0	NO	NO	104 (3-4 pm)	Euclid 73'/21 sec	6	YES
Euclid / Noble	7	NO	5	YES	3	YES	NO				
Euclid / Rosemont / Walgreen's	0	NO	0	NO	0	NO	NO				
Euclid / RTA Drive / Parking Lot	0	NO	0	NO	0	NO	NO				
Euclid / Shaw	8	YES	5	YES	0	NO	NO				
Euclid / Stanwood / Strathmore	1	NO	0	NO	0	NO	NO	101 (3-3:30pm)	Euclid 76'/22 sec	3	YES
Euclid / Superior	7	NO	4	YES	2	YES	NO				
Euclid / Taylor	3	NO	1	NO	0	NO	NO	30 (7:15-8:15am)	Euclid 82'/24 sec	0	YES
Euclid / Beersford / RTA Buses	0	NO	0	NO	0	NO	NO				
Hayden / Alder	0	NO	0	NO	0	NO	NO				
Hayden / Doan - RTA - Fifth	0	NO	0	NO	0	NO	NO				
Hayden / Holyoke	0	NO	0	NO	0	NO	NO				
Hayden / Lakefront	0	NO	0	NO	0	NO	NO				
Hayden / Mann	0	NO	0	NO	0	NO	NO				
Hayden / Northfield / Claiborne	0	NO	0	NO	0	NO	NO				
Hayden / Shaw	1	NO	0	NO	0	NO	NO	34 (7:45-8:45am)	Hayden 54'/16 sec Shaw 50'/14 sec	Hayden - 28 Shaw - 48	YES
Hayden / Sixth / Mayfair	0	NO	0	NO	0	NO	NO	33 (3:00-3:30pm)	Hayden 63'/18 sec	14	YES
Hayden / Strathmore	0	NO	0	NO	0	NO	NO				
Lee / FHB	8	YES	2	NO	0	NO	NO				
Noble / General Electric	2	NO	1	NO	0	NO	NO				
Noble / Helmsdale	0	NO	0	NO	0	NO	NO				
Noble / Nelaview	0	NO	0	NO	0	NO	NO				
Noble / Terrace	6	NO	3	NO	1	YES	NO				
Shaw / Allegheny	0	NO	0	NO	0	NO	NO	54 (3:00-3:30pm)	Shaw 30'/9 sec	3	YES
Shaw / E. 133rd	0	NO	0	NO	0	NO	NO				
Superior / Coventry	5	NO	1	NO	0	NO	NO				
Superior / Eddington	0	NO	0	NO	0	NO	NO				
Superior / Emily / RTA	0	NO	0	NO	0	NO	NO				
Superior / Glenmont	0	NO	0	NO	0	NO	NO				
Superior / Hayden	0	NO	0	NO	0	NO	NO				
Superior / Lockwood	0	NO	0	NO	0	NO	NO				
Superior / Terrace	4	NO	5	YES	0	NO	NO				
Terrace / Belmore	0	NO	0	NO	0	NO	NO				
Terrace / FHB	4	NO	4	YES	0	NO	NO				
Terrace / Lee	0	NO	0	NO	0	NO	NO				
Terrace / Marloes - Rosemont	0	NO	0	NO	0	NO	NO	42 (7:45-8:15am)	Terrace 34'/10 sec	3	YES
Terrace / Taylor	0	NO	0	NO	0	NO	NO				
Woodsworth / Coit / Wemple / East 146th	0	NO	0	NO	0	NO	NO				

Warrant #1 - 8 Hour Warrant, Condition A or B

Warrant #2 - 4 Hour Warrant Warrant #3 - Peak Hour Warrant

Warrant #4 - Pedestrian Volume

Warrant #5 - School Crossing

As indicated above, based on the traffic counts available, seventeen (17) intersections met at least one of the evaluated traffic signal warrants. For the intersections that meet only the School Crossing warrant, gap analysis data is provided in **Appendix B**. A walking speed of 3.5 feet per second was used to determine the required gap.

3.3 Retention Analysis

For the thirty-three (33) intersections that did not satisfy any of the signal warrants, retention analysis was performed following the guidelines contained in ODOT's *Traffic Engineering Manual (TEM)*. A number of evaluation criteria are provided to help determine whether unwarranted signals should be retained or removed. Due to the large number of unwarranted signals, the retention analysis has been summarized in a table on the following page.

The retention analysis focuses on crash history, sight distance issues, history of the signal installation, reasons for volume reductions, potential for traffic growth, capacity analysis, and the cost of removal vs. annual operations and maintenance. Based on the analysis individual signals can be recommended for removal or retention. For the crash history analysis URS obtained crash data from the Ohio Department of Public Safety (ODPS) website for the years 2008-2010.

For all of the signals evaluated for retention in this study, the volumes have decreased over the years due to population decreases, loss of businesses, and the overall economic downturn. There is no anticipated increase in traffic that would lead to the signals satisfying warrants in the foreseeable future. In terms of costs, the average cost to remove a signal installation is approximately \$2,000 and the average annual cost for maintenance and operations is \$1,000, indicating that within two years the cost of removal would be recouped.

Capacity analysis indicates that most of the intersections would operate efficiently if the signal was removed. At Euclid Avenue and Lakeview Avenue, the northbound approach would operate at LOS F in the PM peak, however, this signal has already been placed on flash by the City and there have been no significant issues or complaints. The signal at Elm Avenue/Coit Avenue/E. 152nd Street has been removed and replaced with stop control, and capacity analysis indicates LOS A on all approaches. The Hayden Avenue/Alder Avenue signal has been replaced with stop signs on Alder and operates efficiently, as do the intersections of Hayden Avenue/Mann Avenue and Superior Road/Eddington Road. At Terrace Road/Lee Road the signal operates on flash with all-way stop control. This intersection also appears to operate efficiently.

As noted in the table below, there are several locations that have significant sight distance issues or for which the signals were installed to accommodate certain

businesses (RTA, GE). However, based on the low traffic volumes, the high cost of reconstruction, and other concerns with retaining unwarranted signals, these factors are not justification for retention.

**TRAFFIC SIGNAL REMOVAL ANALYSIS
CITY OF EAST CLEVELAND, OHIO**

Intersection	2008-2010 Crash History	Sight Distance Problems	History of Installation	Developmental Growth?	Reasons for Volume Changes	Capacity Analysis	Cost Summary
1 Elm/ Coit / E. 152nd	3 angle crashes	None	Signal removed already; all-way stop control at Coit/Elm, stop control on 152nd at Coit	None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS A all approaches	Removal - \$2,000 Annual Operations - \$1,000
2 Eudid / Belmont / Holyoke	9 crashes - 4 angle, 2 rear end, 2 sideswipe, 1 misc.	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS C side street approaches	Removal - \$2,000 Annual Operations - \$1,000
3 Eudid / Bumette / Collamer	8 crashes - 3 sideswipe, 2 rear end, 1 backing, 1 angle, 1 head-on	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS C side street approaches	Removal - \$2,000 Annual Operations - \$1,000
4 Eudid / Coit	7 crashes - 3 rear-end, 1 head-on, 1 sideswipe, 2 misc.	Vegetation on NW corner - could be trimmed/removed		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
5 Eudid / Delmont	4 crashes - 2 angle, 2 rear-end	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS C side street approaches	Removal - \$2,000 Annual Operations - \$1,000
6 Eudid / Doan	13 crashes - 8 rear-end, 2 angle, 2 sideswipe, 1 misc.	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
10 Eudid / Hillsboro	4 crashes - 2 rear-end, 2 sideswipe	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS D side street approaches	Removal - \$2,000 Annual Operations - \$1,000
11 Eudid / Lakeview	15 crashes - 7 angle, 5 rear-end, 1 sideswipe, 2 misc.	Tree on NE corner - trim or remove	Signal currently operating on flash	None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS F NB; LOS C SB	Removal - \$2,000 Annual Operations - \$1,000
12 Eudid / Lee	12 crashes - 7 rear-end, 2 angle, 2 sideswipe, 1 backing	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS C side street approaches	Removal - \$2,000 Annual Operations - \$1,000
15 Eudid / Rosemont / Walgreen's	5 crashes - 3 rear-end, 1 sideswipe, 1 head-on	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
16 Eudid / RTA Drive / Parking Lot	None	None	Installed for RTA station - passenger access	None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
21 Eudid / Beersford / RTA Buses	6 crashes - 4 rear-end, 1 sideswipe, 1 misc.	None	Installed for RTA station - bus access	None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
22 Hayden / Alder	None		Signal removed already; stop control on Alder	None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
23 Hayden / Doan - RTA - Fifth	4 crashes - 2 rear-end, 2 angle		Near school but children cross at 6th/Mayfair. Access for RTA employees & buses	None planned or anticipated	Decreasing population, poor economy, loss of businesses		Removal - \$2,000 Annual Operations - \$1,000
24 Hayden / Holyoke	2 angle crashes	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
25 Hayden / Lakefront	2 crashes - 1 rear-end, 1 sideswipe	Buildings on NE & SE corners but no significant problem		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
26 Hayden / Mann	1 rear-end crash	None	Signal removed already; stop control on Mann	None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
27 Hayden / Northfield / Calborne	1 rear-end crash	Alignment - poor sight distance to north from EB; to south from WB		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
30 Hayden / Strathmore	None	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS A WB; LOS B EB	Removal - \$2,000 Annual Operations - \$1,000
32 Noble / General Electric	None	On-street parking on Noble results in one available lane	Signal installed for GE. Signal + stop signs in place on GE drive. If Noble considered one lane, location meets peak hour warrant.	None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
33 Noble / Helmsdale	2 rear-end crashes	On-street parking WB on Noble results in one available lane		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS C NB; LOS B SB	Removal - \$2,000 Annual Operations - \$1,000
34 Noble / Nelaview	5 crashes - 2 rear-end, 1 head-on, 1 backing, 1 misc.	On-street parking WB on Noble results in one available lane		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
37 Shaw / E. 133rd	4 crashes - 1 angle, 1 rear-end, 1 head-on, 1 misc.	Building on NW corner limits sight distance		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
38 Superior / Coventry	2 crashes - 1 angle, 1 sideswipe	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS C side street approaches	Removal - \$2,000 Annual Operations - \$1,000
39 Superior / Eddington	None		Signal already removed; stop control on Eddington	None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
40 Superior / Emily / RTA	4 crashes - 2 sideswipe, 1 rear-end, 1 angle	NB restricted to right by vegetation; SB restricted by bridge		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS C side street approaches	Removal - \$2,000 Annual Operations - \$1,000
41 Superior / Glenmont	1 rear-end crash	None		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
42 Superior / Hayden	17 crashes - 10 rear-end, 4 angle, 1 head-on, 1 sideswipe, 1 misc.	Building on NW corner, bridge on NE corner - sight distance very restricted, unsafe without signal		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
43 Superior / Lockwood	8 crashes - 7 rear-end, 1 angle	Building on NW corner; buildings on SE & SW corners		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
45 Terrace / Belmont	5 crashes - 2 sideswipe, 1 rear-end, 1 angle, 1 misc.	Possibly tree to E, tree & curve to W (Terrace considered E-W street). Apartment drive on curve and downhill grade approaching intersection.		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B side street approaches	Removal - \$2,000 Annual Operations - \$1,000
47 Terrace / Lee	8 crashes - 3 angle, 1 rear-end, 1 head-on, 1 sideswipe, 2 misc.		Signal already removed; all-way stop control w/flasher	None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B all approaches	Removal - \$2,000 Annual Operations - \$1,000
49 Terrace / Taylor	12 crashes - 8 rear-end, 3 angle, 1 sideswipe	Alignment, building on NW corner, trees; poor sight distance for both directions on EB Terrace, NB Taylor		None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B all approaches	Removal - \$2,000 Annual Operations - \$1,000
50 Woodworth / Coit / Wemple / East 146th	4 crashes - 1 rear-end, 1 head-on, 2 misc.	Crest of hill limits vertical sight distance NB & SB on Coit and Wemple	On border of City of Cleveland - in that City's jurisdiction	None planned or anticipated	Decreasing population, poor economy, loss of businesses	LOS B Coit/Wemple; LOS B Coit/E. 146th	Removal - \$2,000 Annual Operations - \$1,000

Section 4
Conclusions and Recommendations

4.0 Conclusions and Recommendations

A total of fifty (50) intersections in the City of East Cleveland have been investigated to determine if the traffic signals are warranted. Using the existing traffic counts, the results of the analysis indicate that the seventeen (17) study intersections listed below meet one or more traffic signal warrants:

- Euclid Avenue/Eddy Road
- Euclid Avenue/Emily Street/Rosalind Avenue
- Euclid Avenue/Forest Hills Boulevard/Wheeler Street
- Euclid Avenue/Marloes Avenue
- Euclid Avenue/Noble Road
- Euclid Avenue/Shaw Avenue
- Euclid Avenue/Stanwood Road/Strathmore Avenue
- Euclid Avenue/Superior Road
- Euclid Avenue/Taylor Road
- Hayden Avenue/Shaw Avenue
- Hayden Avenue/Sixth Avenue/Mayfair Avenue
- Lee Road/Forest Hills Boulevard
- Noble Road/Terrace Road
- Shaw Avenue/Allegheny Avenue
- Superior Road/Terrace Road
- Terrace Road/Forest Hills Boulevard
- Terrace Road/Marloes Avenue/Rosemont Road

Therefore, it is recommended that the signals be kept and be incorporated into various traffic signal systems. The signal at Euclid Avenue/Marloes Avenue is currently operating in flash mode. Since this signal is warranted, with a high volume of school children crossing at the intersection, the City should pursue restoring it to full operation.

The remaining signals were evaluated following the retention analysis guidelines contained in the *TEM*, and none are recommended for retention. The signal at Woodworth Avenue/Coit Avenue/Wemple Road/E. 146th Street is within the jurisdiction of the City of Cleveland and will not be addressed by East Cleveland. The other thirty-two (32) signals should be removed by the City or as part of a citywide signal improvement project.

Appendix A
Traffic Counts

15-Minute Count Data

Coit Ave and Elm Ave and 152nd St

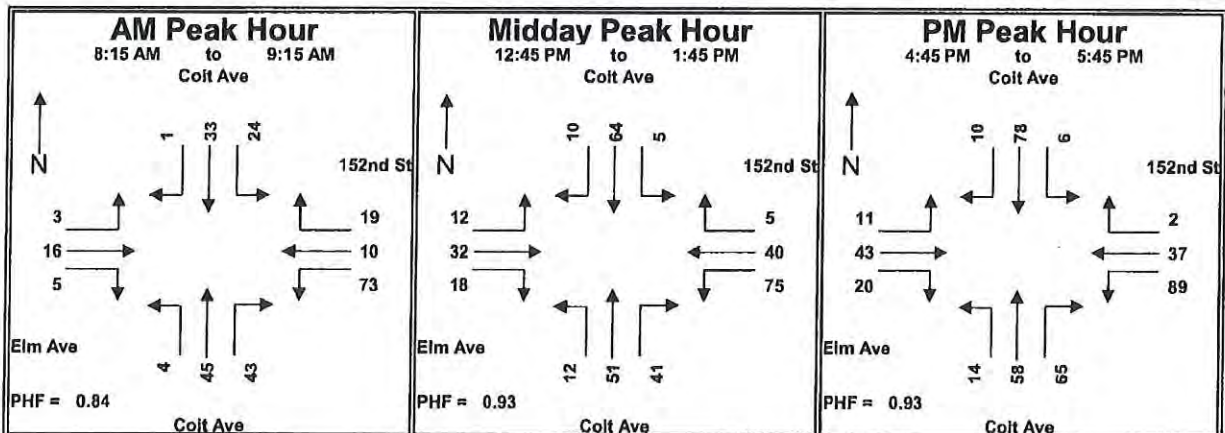


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.923	Thursday	June 9, 2011	7:00 AM	10:00 AM	
0.923	Thursday	June 9, 2011	11:00 AM	2:00 PM	
0.923	Thursday	June 9, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Coit Ave Northbound				Coit Ave Southbound				Total North South	Elm Ave Eastbound				152nd St Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	82	417	459	9	88	455	55	3	1556	56	247	80	2	631	208	62	7	1284	2840
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	129	657	723	14	139	717	87	5	2451	88	389	126	3	994	328	98	11	2022	4473



Notes:

15-Minute Count Data

Euclid Ave and Holyoke Ave and Belmore Ave E. Cleveland, Ohio



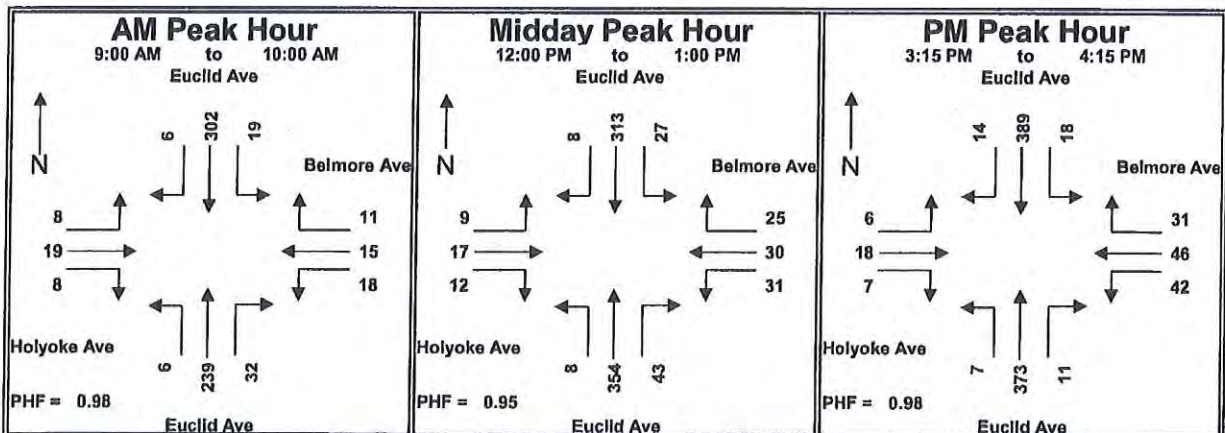
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 9, 2011	7:00 AM	10:00 AM	Cloudy
0.886	Thursday	June 9, 2011	11:00 AM	2:00 PM	Hot
0.886	Thursday	June 9, 2011	3:00 PM	6:00 PM	Hot

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Holyoke Ave Eastbound				Belmore Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	62	2735	186	26	181	2809	94	32	6067	67	163	71	0	228	246	167	5	942	7009
ADT	93	4121	280	39	273	4233	142	48	9142	101	246	107	0	344	371	252	8	1419	10561
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 1%					
7:00 AM	0	26	9	0	6	49	1	2	91	0	9	0	0	2	3	2	0	16	107
7:15 AM	1	36	3	1	5	54	0	0	99	1	2	0	0	3	3	0	0	9	108
7:30 AM	1	39	7	1	9	63	3	0	122	1	4	0	0	3	2	2	0	12	134
7:45 AM	0	46	5	0	8	79	3	2	141	0	2	0	0	6	6	4	0	18	159
8:00 AM	1	42	8	2	6	70	3	2	130	5	1	1	0	8	3	2	0	20	150
8:15 AM	2	59	3	4	2	72	3	2	141	3	4	2	0	4	4	2	2	19	160
8:30 AM	1	65	5	3	3	75	4	3	153	2	7	3	0	4	3	5	0	24	177
8:45 AM	0	56	7	0	1	54	2	0	120	3	3	1	0	3	4	1	0	15	135
9:00 AM	1	52	8	1	5	83	1	0	150	3	3	1	0	3	1	4	0	15	165
9:15 AM	2	58	6	0	4	82	0	2	152	1	8	0	0	4	4	6	0	23	175
9:30 AM	2	70	8	1	4	64	1	0	149	3	6	1	0	4	8	0	1	22	171
9:45 AM	1	59	10	1	6	73	4	1	153	1	2	6	0	7	2	1	0	19	172
11:00 AM	0	62	4	0	6	58	3	1	133	1	2	1	0	7	7	7	0	25	158
11:15 AM	0	80	5	0	6	62	0	2	153	2	3	3	0	6	4	6	0	24	177
11:30 AM	4	82	8	2	2	75	1	1	172	3	2	5	0	12	7	5	0	34	206
11:45 AM	2	77	4	1	7	87	1	1	178	0	1	2	0	7	6	2	1	18	196
12:00 PM	1	84	15	1	7	72	4	0	183	2	5	2	0	11	9	6	1	35	218
12:15 PM	3	79	9	2	8	75	0	3	174	2	4	2	0	6	7	5	0	26	200
12:30 PM	2	96	6	1	2	86	1	0	193	2	5	5	0	8	8	10	0	38	231
12:45 PM	2	95	13	1	10	80	3	0	203	3	3	3	0	6	6	4	0	25	228
1:00 PM	1	90	5	0	6	69	3	2	174	1	6	1	0	7	4	3	0	22	196
1:15 PM	0	82	2	1	7	76	3	2	170	3	6	4	0	6	8	7	0	34	204
1:30 PM	1	81	9	0	7	96	3	1	197	0	0	1	0	1	7	7	0	16	213
1:45 PM	3	81	7	0	5	79	2	1	177	2	7	1	0	6	9	7	0	32	209
3:00 PM	1	72	0	0	2	104	0	2	179	2	10	3	0	12	16	6	0	49	228
3:15 PM	2	90	2	0	6	95	2	0	197	1	3	2	0	14	13	9	0	42	239
3:30 PM	1	83	0	0	4	98	3	1	189	2	6	0	0	13	17	7	0	45	234
3:45 PM	2	99	5	0	6	98	4	0	214	3	3	2	0	10	5	7	0	30	244
4:00 PM	2	101	4	0	2	98	5	1	212	0	6	3	0	5	11	8	0	33	245
4:15 PM	5	91	0	0	0	87	5	0	188	0	4	1	0	7	8	9	0	29	217
4:30 PM	2	101	0	0	7	86	2	0	198	4	7	3	0	9	6	5	0	34	232
4:45 PM	5	107	1	1	6	88	5	0	212	3	6	4	0	4	7	1	0	25	237
5:00 PM	2	106	2	2	5	80	4	0	199	1	5	2	0	3	9	6	0	26	225
5:15 PM	6	88	2	0	5	74	7	0	182	6	9	2	0	6	12	4	0	39	221
5:30 PM	0	112	3	0	4	87	2	0	208	0	7	3	0	9	12	5	0	36	244
5:45 PM	3	88	1	0	2	81	6	0	181	1	2	1	0	2	5	2	0	13	194



Notes:

15-Minute Count Data

Euclid Ave and Collamer Ave and Burnette Ave E. Cleveland, Ohio



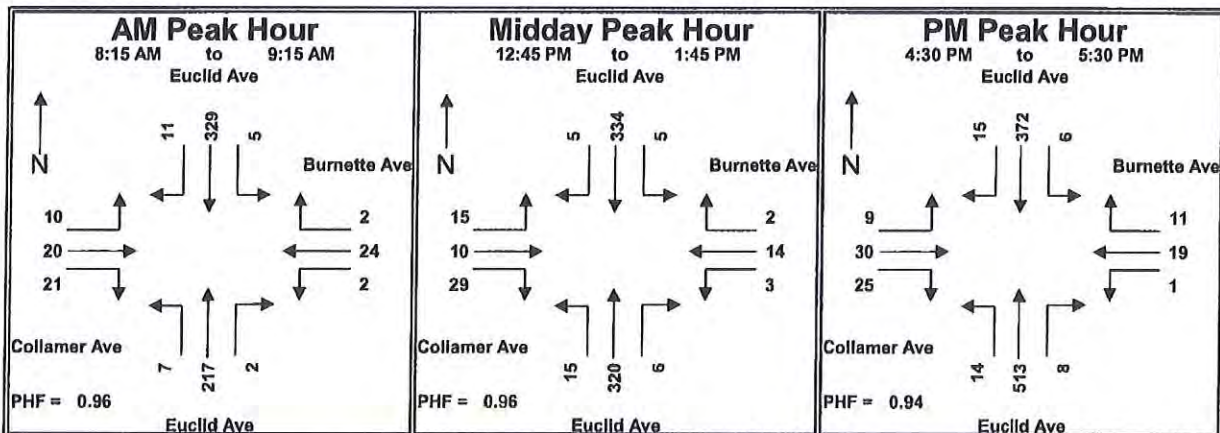
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 21, 2011	7:00 AM	10:00 AM	Warm
0.921	Tuesday	June 21, 2011	11:00 AM	2:00 PM	Sunny
0.921	Tuesday	June 21, 2011	3:00 PM	6:00 PM	Sunny

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Collamer Ave Eastbound				Burnette Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	134	2800	46	23	43	2989	92	19	6104	96	166	179	4	19	174	43	0	677	6781
ADT	210	4386	72	36	67	4682	144	30	9561	150	260	280	6	30	273	67	0	1060	10621
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 1%				Percent Trucks = 0%					
7:00 AM	0	42	0	1	0	60	4	1	106	0	4	5	0	0	4	2	0	15	121
7:15 AM	1	27	0	0	1	69	1	0	99	4	2	6	1	0	2	0	0	14	113
7:30 AM	5	43	1	0	0	92	1	0	142	1	4	4	2	1	7	3	0	20	162
7:45 AM	3	53	2	1	2	86	2	1	148	0	2	5	0	1	9	4	0	21	169
8:00 AM	3	42	0	1	0	82	3	2	130	2	4	2	0	0	6	0	0	14	144
8:15 AM	1	49	1	3	0	89	1	0	141	1	6	2	0	0	12	0	0	21	162
8:30 AM	1	43	0	0	2	88	3	1	137	4	2	5	0	0	4	1	0	16	153
8:45 AM	2	56	0	0	2	82	3	1	145	2	6	7	0	1	5	0	0	21	166
9:00 AM	3	69	1	1	1	70	4	1	148	3	6	7	0	1	3	1	0	21	169
9:15 AM	3	51	8	0	1	64	1	0	128	2	5	5	0	0	4	0	0	16	144
9:30 AM	4	62	0	2	1	73	4	0	144	2	2	3	0	1	7	0	0	15	159
9:45 AM	3	60	2	2	0	84	0	3	149	2	4	5	0	1	3	0	0	15	164
11:00 AM	4	72	0	2	2	67	5	1	140	3	5	2	0	1	4	2	0	17	157
11:15 AM	7	50	0	1	1	76	1	1	135	3	6	3	0	0	5	0	0	17	152
11:30 AM	4	66	0	0	1	81	1	1	153	2	2	5	0	1	5	1	0	16	169
11:45 AM	2	65	0	2	8	66	1	0	142	4	1	4	0	0	1	1	0	11	153
12:00 PM	2	74	1	0	1	75	0	3	153	1	4	3	0	0	5	1	0	14	167
12:15 PM	6	52	0	1	0	85	4	0	147	0	5	2	0	0	3	0	0	10	157
12:30 PM	2	73	1	0	1	81	4	1	162	4	3	1	0	1	0	1	0	10	172
12:45 PM	3	83	0	1	1	90	1	0	178	4	2	6	1	0	5	0	0	17	195
1:00 PM	7	69	4	1	1	73	0	1	154	3	3	6	0	2	6	1	0	21	175
1:15 PM	3	82	1	0	3	91	3	0	183	3	1	8	0	0	2	0	0	14	197
1:30 PM	2	86	1	0	0	80	1	1	170	5	4	9	0	1	1	1	0	21	191
1:45 PM	5	75	3	0	0	89	2	0	174	2	2	3	0	0	2	2	0	11	185
3:00 PM	6	99	1	1	2	96	3	0	207	4	10	1	0	1	4	3	0	23	230
3:15 PM	6	117	0	0	1	101	4	0	229	7	5	7	0	0	6	0	0	25	254
3:30 PM	4	98	0	0	1	81	2	0	186	6	3	8	0	1	8	0	0	26	212
3:45 PM	5	110	2	0	2	107	3	0	229	0	4	6	0	0	9	1	0	20	249
4:00 PM	6	105	5	2	0	86	3	0	205	1	5	3	0	1	7	4	0	21	226
4:15 PM	6	115	1	0	0	88	4	0	214	1	4	10	0	1	9	1	0	26	240
4:30 PM	3	138	3	0	0	95	3	0	242	2	5	6	0	0	5	1	0	19	261
4:45 PM	3	127	2	0	2	102	7	0	243	4	8	7	0	1	4	5	0	29	272
5:00 PM	1	112	2	1	4	98	3	0	220	1	9	7	0	0	7	2	0	26	246
5:15 PM	7	136	1	0	0	77	2	0	223	2	8	5	0	0	3	3	0	21	244
5:30 PM	6	106	2	0	1	85	5	0	205	8	11	7	0	1	4	2	0	33	238
5:45 PM	5	93	1	0	1	90	3	0	193	3	9	4	0	1	3	0	0	20	213



Notes:

15-Minute Count Data

Euclid Ave and Coit Ave

E. Cleveland, Ohio

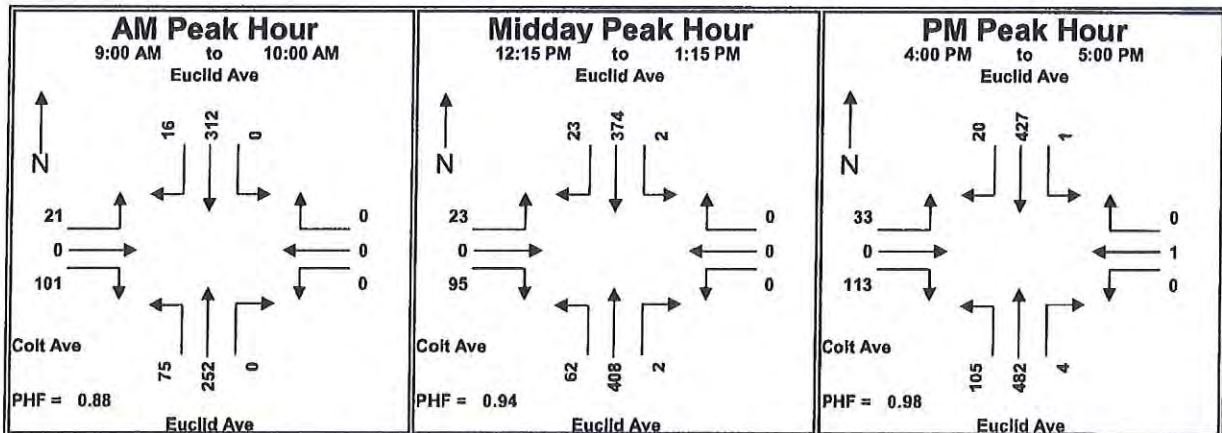


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.916	Wednesday	June 15, 2011	7:00 AM	10:00 AM	Sunny
0.916	Wednesday	June 15, 2011	11:00 AM	2:00 PM	Sunny
0.916	Wednesday	June 15, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Coit Ave Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	641	3025	14	40	10	3155	169	38	7014	203	1	879	3	4	1	4	0	1092	8106
ADT	999	4712	22	62	16	4915	263	59	10927	316	2	1389	5	6	2	6	0	1701	12628
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
7:00 AM	9	32	0	0	0	58	2	0	101	3	0	10	0	0	0	0	0	13	114
7:15 AM	16	30	0	0	0	59	1	0	106	6	0	14	0	0	0	0	0	20	126
7:30 AM	20	51	0	4	0	79	0	2	150	3	0	16	0	0	0	0	0	19	169
7:45 AM	19	46	0	1	0	79	3	0	147	1	0	29	1	0	0	0	0	30	177
8:00 AM	11	52	0	0	0	73	5	0	141	6	0	22	0	0	0	0	0	28	169
8:15 AM	15	47	0	0	1	75	1	0	139	0	0	23	1	0	0	0	0	23	162
8:30 AM	9	62	0	1	0	80	5	1	156	4	0	20	0	0	0	0	0	24	180
8:45 AM	12	64	0	0	0	66	4	2	146	4	0	16	0	0	0	0	0	20	166
9:00 AM	21	55	0	0	0	74	1	0	151	1	0	20	0	0	0	0	0	21	172
9:15 AM	15	51	0	1	0	83	5	3	154	7	0	24	0	0	0	0	0	31	185
9:30 AM	18	78	0	0	0	78	9	3	183	8	0	31	0	0	0	0	0	39	222
9:45 AM	21	68	0	5	0	77	1	5	167	5	0	26	0	0	0	0	0	31	198
11:00 AM	12	71	0	0	0	83	5	2	171	7	0	17	0	0	0	0	0	24	195
11:15 AM	17	59	2	2	3	79	6	2	166	1	0	14	0	0	0	2	0	17	183
11:30 AM	14	91	2	2	1	87	3	4	198	6	0	25	0	0	0	0	0	31	229
11:45 AM	10	78	0	4	1	75	5	1	169	8	0	25	0	0	0	1	0	34	203
12:00 PM	16	78	1	2	0	91	11	2	197	2	0	25	0	0	0	0	0	27	224
12:15 PM	19	95	0	0	0	100	8	0	222	7	0	34	0	0	0	0	0	41	263
12:30 PM	13	97	0	2	1	94	4	2	209	1	0	17	0	0	0	0	0	18	227
12:45 PM	17	98	0	1	1	94	7	1	217	9	0	22	0	0	0	0	0	31	248
1:00 PM	13	118	2	4	0	86	4	2	223	6	0	22	0	0	0	0	0	28	251
1:15 PM	16	81	0	0	0	85	8	1	190	2	0	33	0	0	0	0	0	35	225
1:30 PM	11	85	0	2	1	80	2	1	179	11	0	26	0	0	0	0	0	37	216
1:45 PM	12	81	0	2	0	104	7	0	204	8	1	23	0	1	0	0	0	33	237
3:00 PM	29	92	0	0	0	112	6	0	239	10	0	29	1	0	0	0	0	39	278
3:15 PM	30	113	0	0	0	99	5	1	247	5	0	30	0	0	0	0	0	35	282
3:30 PM	14	116	1	2	0	86	7	1	224	8	0	24	0	0	0	1	0	33	257
3:45 PM	13	111	1	1	0	103	4	0	232	2	0	24	0	0	0	0	0	26	258
4:00 PM	28	114	2	1	0	101	4	1	249	11	0	27	0	0	0	0	0	38	287
4:15 PM	27	115	2	0	1	101	8	0	254	9	0	31	0	0	1	0	0	41	295
4:30 PM	20	130	0	1	0	110	2	0	262	8	0	34	0	0	0	0	0	42	304
4:45 PM	30	123	0	0	0	115	6	0	274	5	0	21	0	0	0	0	0	26	300
5:00 PM	26	109	0	1	0	93	4	0	232	6	0	30	0	1	0	0	0	37	269
5:15 PM	26	118	0	0	0	85	5	0	234	3	0	36	0	0	0	0	0	39	273
5:30 PM	26	118	1	1	0	110	5	0	260	7	0	39	0	1	0	0	0	47	307
5:45 PM	16	98	0	0	0	101	6	1	221	13	0	20	0	1	0	0	0	34	255



Notes:

15-Minute Count Data

Euclid Ave and Delmont Ave

E. Cleveland, Ohio

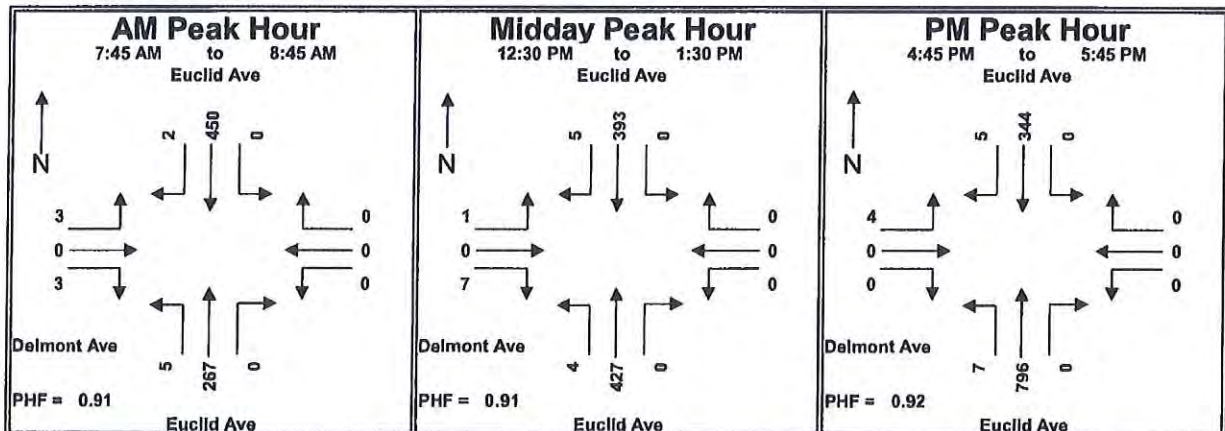


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 16, 2011	7:00 AM	10:00 AM	Cool
0.886	Thursday	June 16, 2011	11:00 AM	2:00 PM	Sunny
0.886	Thursday	June 16, 2011	3:00 PM	6:00 PM	Rain

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Delmont Ave Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	42	3836	0	34	2	3350	42	27	7272	30	0	38	2	0	0	0	0	68	7340
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 3%				Percent Trucks = 0%					
ADT	63	5780	0	51	3	5048	63	41	10957	45	0	57	3	0	0	0	0	102	11060



Notes:

15-Minute Count Data

Euclid Ave and Doan Ave

E. Cleveland, Ohio

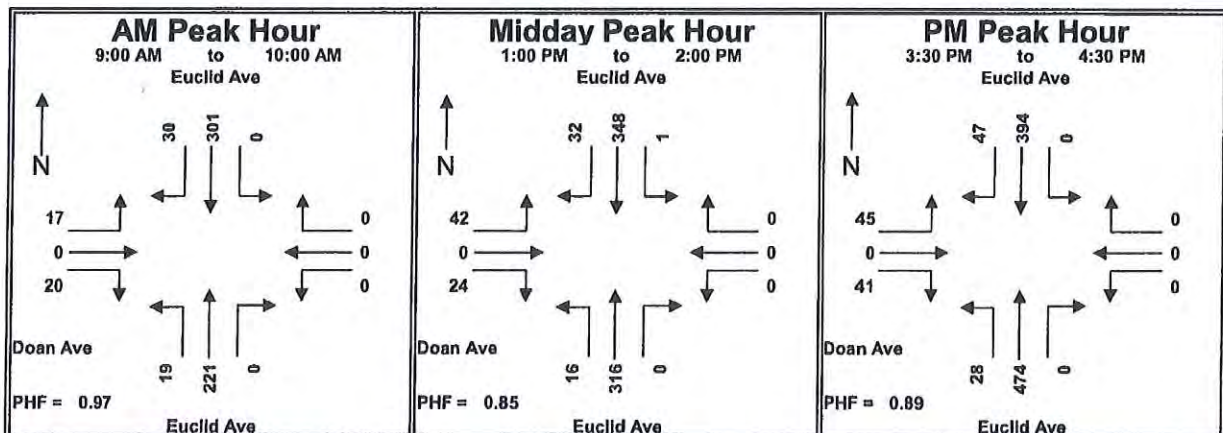


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 14, 2011	7:00 AM	10:00 AM	Cloudy
0.921	Tuesday	June 14, 2011	11:00 AM	2:00 PM	Cloudy
0.921	Tuesday	June 14, 2011	3:00 PM	6:00 PM	Cloudy

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Doan Ave Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	197	2683	0	17	1	2912	309	18	6102	296	0	236	2	0	0	0	0	532	6634
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	309	4202	0	27	2	4561	484	28	9558	464	0	370	3	0	0	0	0	833	10391
7:00 AM	5	23	0	0	0	38	2	1	68	2	0	2	0	0	0	0	0	4	72
7:15 AM	3	24	0	1	0	55	3	1	85	2	0	4	0	0	0	0	0	6	91
7:30 AM	1	35	0	0	0	62	7	2	105	3	0	7	0	0	0	0	0	10	115
7:45 AM	3	36	0	0	0	76	8	1	123	4	0	2	0	0	0	0	0	6	129
8:00 AM	4	52	0	1	0	71	8	0	135	4	0	5	0	0	0	0	0	9	144
8:15 AM	2	39	0	0	0	71	3	1	115	3	0	4	0	0	0	0	0	7	122
8:30 AM	2	44	0	0	0	83	1	0	130	4	0	5	0	0	0	0	0	9	139
8:45 AM	2	49	0	1	0	68	9	0	128	4	0	3	0	0	0	0	0	7	135
9:00 AM	11	51	0	2	0	74	6	0	142	4	0	10	0	0	0	0	0	14	156
9:15 AM	2	68	0	1	0	66	8	1	144	4	0	4	1	0	0	0	0	8	152
9:30 AM	2	48	0	1	0	81	9	2	140	4	0	5	0	0	0	0	0	9	149
9:45 AM	4	54	0	1	0	80	7	2	145	5	0	1	0	0	0	0	0	6	151
11:00 AM	4	62	0	1	0	63	6	0	135	13	0	7	0	0	0	0	0	20	155
11:15 AM	1	59	0	0	0	79	9	0	148	9	0	8	0	0	0	0	0	17	165
11:30 AM	6	68	0	1	0	56	8	0	138	5	0	6	0	0	0	0	0	11	149
11:45 AM	6	81	0	2	0	96	13	0	196	5	0	8	0	0	0	0	0	13	209
12:00 PM	9	88	0	1	0	73	4	1	174	10	0	7	0	0	0	0	0	17	191
12:15 PM	9	67	0	0	0	94	8	0	178	13	0	5	0	0	0	0	0	18	196
12:30 PM	9	63	0	0	0	78	8	1	158	7	0	7	0	0	0	0	0	14	172
12:45 PM	3	72	0	0	0	83	10	0	168	7	0	10	0	0	0	0	0	17	185
1:00 PM	0	85	0	0	0	56	11	0	152	8	0	2	1	0	0	0	0	10	162
1:15 PM	3	78	0	0	0	91	6	0	178	13	0	5	0	0	0	0	0	18	196
1:30 PM	8	79	0	1	0	110	9	0	206	15	0	8	0	0	0	0	0	23	229
1:45 PM	5	74	0	0	1	91	6	1	177	6	0	9	0	0	0	0	0	15	192
3:00 PM	9	91	0	0	0	104	9	1	213	14	0	2	0	0	0	0	0	16	229
3:15 PM	5	86	0	1	0	92	13	1	196	13	0	3	0	0	0	0	0	16	212
3:30 PM	7	131	0	0	0	116	10	0	264	13	0	11	0	0	0	0	0	24	288
3:45 PM	9	120	0	1	0	86	10	0	225	7	0	14	0	0	0	0	0	21	246
4:00 PM	6	118	0	0	0	103	4	0	231	16	0	10	0	0	0	0	0	26	257
4:15 PM	6	105	0	0	0	89	23	0	223	9	0	6	0	0	0	0	0	15	238
4:30 PM	9	96	0	0	0	92	8	2	205	16	0	8	0	0	0	0	0	24	229
4:45 PM	8	96	0	0	0	87	19	0	210	15	0	11	0	0	0	0	0	26	236
5:00 PM	6	125	0	0	0	74	11	0	216	8	0	7	0	0	0	0	0	15	231
5:15 PM	5	106	0	1	0	99	9	0	219	11	0	14	0	0	0	0	0	25	244
5:30 PM	18	102	0	0	0	93	11	0	224	11	0	7	0	0	0	0	0	18	242
5:45 PM	5	108	0	0	0	82	13	0	208	9	0	9	0	0	0	0	0	18	226



Notes:

15-Minute Count Data

Euclid Ave and Eddy Rd

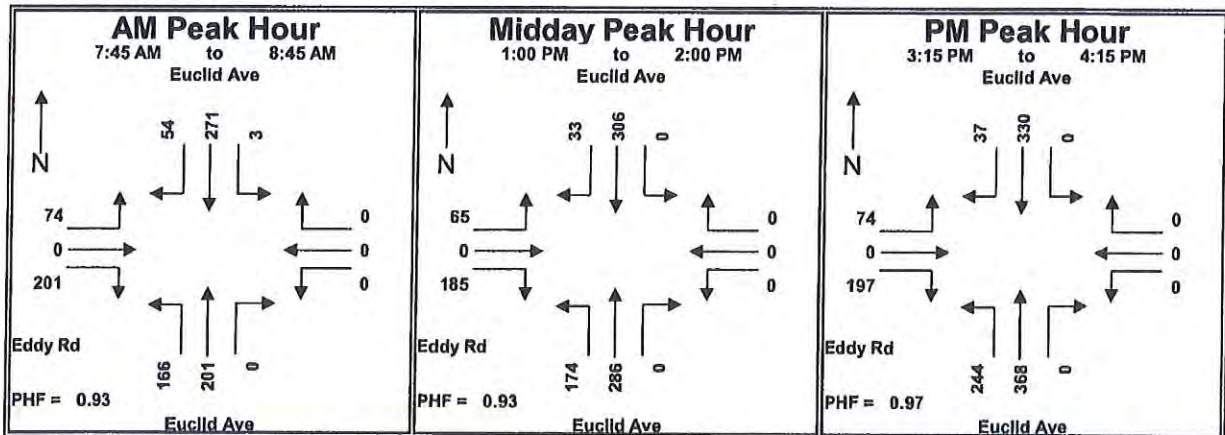


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.894	Thursday	May 19, 2011	7:00 AM	10:00 AM	
0.894	Thursday	May 19, 2011	11:00 AM	2:00 PM	
0.894	Thursday	May 19, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Eddy Rd Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	1648	2552	0	16	3	2514	336	15	7053	499	1	1637	6	0	0	0	0	2137	9190
	Percent Trucks = 0%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	2506	3880	0	24	5	3822	511	23	10723	759	2	2489	9	0	0	0	0	3249	13973



Notes:

15-Minute Count Data

Euclid Ave and Rosalind Ave and Emily St

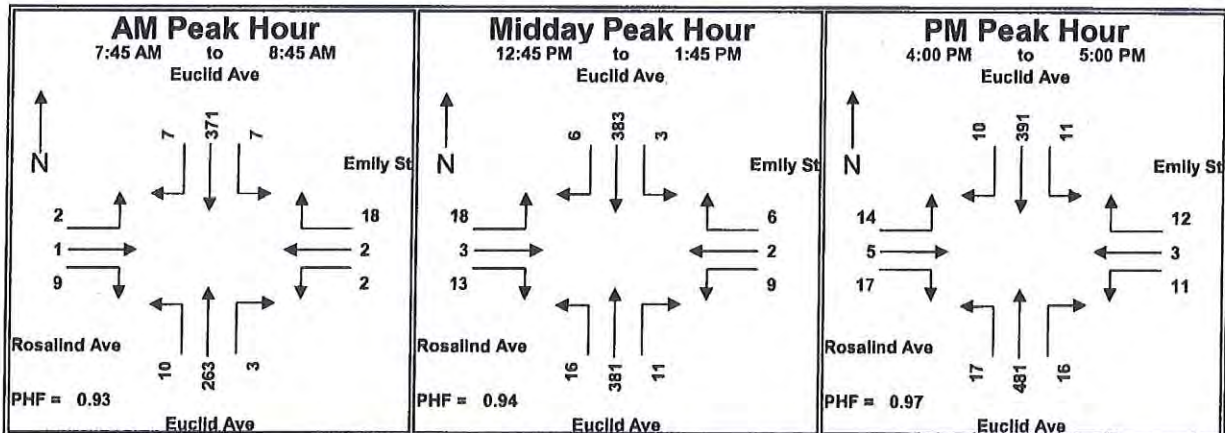


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.912	Wednesday	May 25, 2011	7:00 AM	10:00 AM	
0.912	Wednesday	May 25, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 25, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total South	Rosalind Ave Eastbound				Emily St Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	129	3105	74	25	55	3156	61	23	6580	100	20	130	2	46	18	65	0	379	6959
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 1%				Percent Trucks = 0%					
ADT	200	4816	115	39	85	4895	95	36	10206	155	31	202	3	71	28	101	0	588	10794



Notes:

15-Minute Count Data

Euclid Ave and Wheeler (Fay) St and Forest Hills Blvd E. Cleveland, Ohio

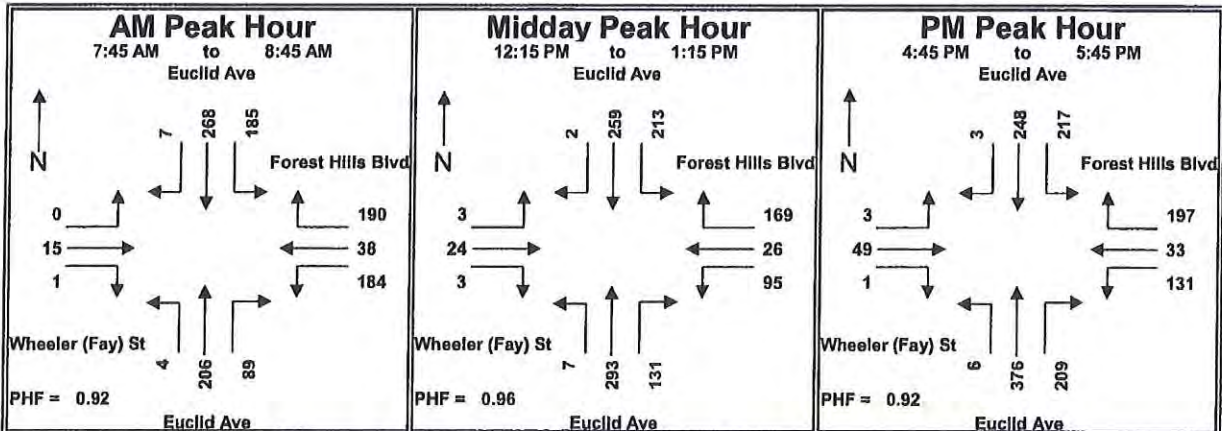


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 7, 2011	7:00 AM	10:00 AM	Rain
0.921	Tuesday	June 7, 2011	11:00 AM	2:00 PM	Sunny
0.921	Tuesday	June 7, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Wheeler (Fay) St Eastbound				Forest Hills Blvd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	54	2499	1102	24	1760	2103	35	23	7553	10	260	17	0	1035	254	1480	5	3056	10609
ADT	85	3914	1726	38	2757	3294	55	36	11830	16	407	27	0	1621	398	2318	8	4787	16617
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
7:00 AM	1	33	11	0	47	33	1	0	126	0	4	0	0	20	3	22	0	49	175
7:15 AM	0	40	15	0	30	38	1	1	124	0	2	0	0	17	9	31	1	59	183
7:30 AM	0	40	16	0	36	48	0	0	140	0	4	0	0	43	10	54	0	111	251
7:45 AM	0	56	19	1	46	80	1	0	202	0	5	0	0	47	13	54	0	119	321
8:00 AM	1	55	26	1	43	58	3	0	186	0	3	0	0	43	12	54	0	112	298
8:15 AM	0	45	22	0	54	63	1	0	185	0	4	0	0	55	7	46	0	112	297
8:30 AM	3	50	22	1	42	67	2	1	186	0	3	1	0	39	6	36	0	85	271
8:45 AM	1	51	21	1	44	63	2	0	182	0	1	1	0	33	5	33	1	73	255
9:00 AM	0	49	23	0	42	52	1	2	167	0	1	0	0	35	8	38	0	82	249
9:15 AM	0	41	22	0	40	41	2	0	146	0	6	0	0	27	3	44	0	80	226
9:30 AM	1	48	16	0	40	59	0	1	164	1	3	0	0	19	6	33	0	62	226
9:45 AM	1	37	28	2	42	56	0	0	164	0	3	2	0	25	6	23	0	59	223
11:00 AM	1	55	24	1	51	39	1	2	171	0	3	0	0	19	7	27	1	56	227
11:15 AM	1	67	26	3	41	53	1	2	189	1	11	0	0	24	5	37	0	78	267
11:30 AM	0	71	22	1	51	61	1	1	206	0	8	1	0	23	3	43	0	78	284
11:45 AM	2	68	30	3	61	49	0	1	210	0	4	0	0	13	4	32	1	53	263
12:00 PM	0	70	25	1	46	60	1	2	202	0	13	1	0	29	7	37	0	87	289
12:15 PM	1	79	34	1	60	68	1	0	243	1	4	0	0	23	8	40	0	76	319
12:30 PM	3	63	33	0	46	64	0	0	209	2	6	1	0	31	5	40	0	85	294
12:45 PM	2	73	32	0	56	64	0	0	227	0	7	0	0	17	7	43	0	74	301
1:00 PM	1	78	32	1	51	63	1	0	226	0	7	2	0	24	6	46	0	85	311
1:15 PM	3	75	25	0	40	68	1	0	212	0	5	0	0	29	7	35	0	76	288
1:30 PM	1	70	24	2	52	77	0	1	224	0	5	1	0	27	7	45	0	85	309
1:45 PM	7	88	41	1	37	73	0	2	246	1	9	1	0	20	5	29	0	65	311
3:00 PM	0	74	37	0	54	58	2	1	225	0	9	1	0	24	9	34	0	77	302
3:15 PM	6	77	32	0	52	54	1	0	222	0	8	1	0	28	5	32	0	74	296
3:30 PM	1	83	35	2	64	54	3	0	240	0	10	0	0	32	5	42	0	89	329
3:45 PM	1	104	42	0	56	58	2	2	263	0	18	1	0	30	5	49	0	103	366
4:00 PM	3	99	32	0	48	75	0	1	257	0	12	0	0	30	9	40	0	91	348
4:15 PM	3	100	40	0	58	65	1	2	267	1	12	2	0	26	10	60	0	111	378
4:30 PM	3	92	37	0	70	61	2	0	265	0	10	0	0	28	10	58	0	106	371
4:45 PM	0	87	46	1	53	62	0	1	248	0	20	0	0	37	12	40	0	109	357
5:00 PM	3	88	56	0	52	65	0	0	264	0	9	0	0	36	8	47	0	100	364
5:15 PM	2	92	54	1	51	63	0	0	262	2	12	0	0	26	4	47	0	91	353
5:30 PM	1	109	53	0	61	58	3	0	285	1	8	1	0	32	9	63	0	114	399
5:45 PM	1	92	49	0	43	33	0	0	218	0	11	0	0	24	9	46	1	90	308



Notes:

15-Minute Count Data

Euclid Ave and Hillsboro Rd

E. Cleveland, Ohio

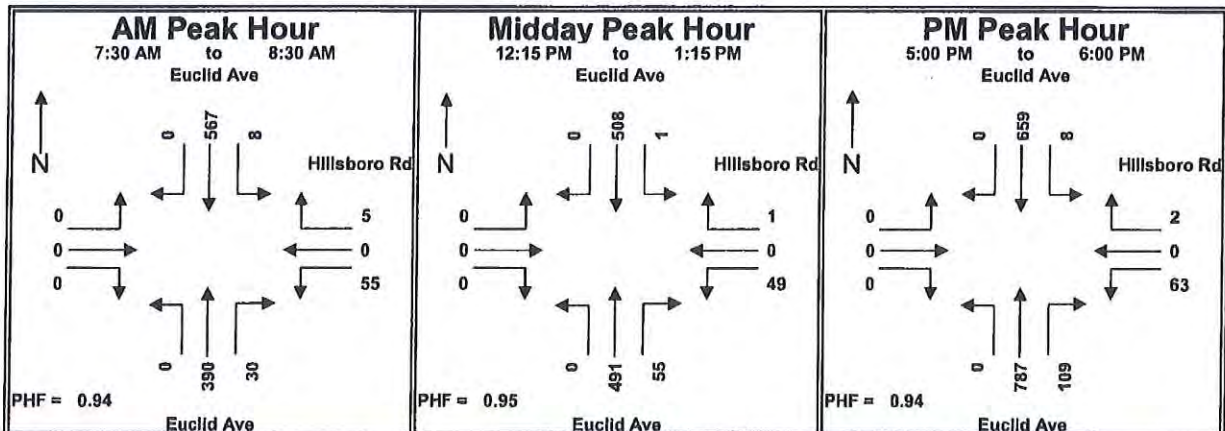


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 21, 2011	7:00 AM	10:00 AM	Warm
0.921	Tuesday	June 21, 2011	11:00 AM	2:00 PM	Sunny
0.921	Tuesday	June 21, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Eastbound				Hillsboro Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	12	4624	490	32	47	4722	0	20	9895	0	0	0	0	461	2	27	1	490	10385
	Percent Trucks = 1%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	19	7243	768	50	74	7396	0	31	15499	0	0	0	0	722	3	42	2	768	16266



Notes:

15-Minute Count Data

Lakeview Rd and Euclid Ave

E. Cleveland, Ohio

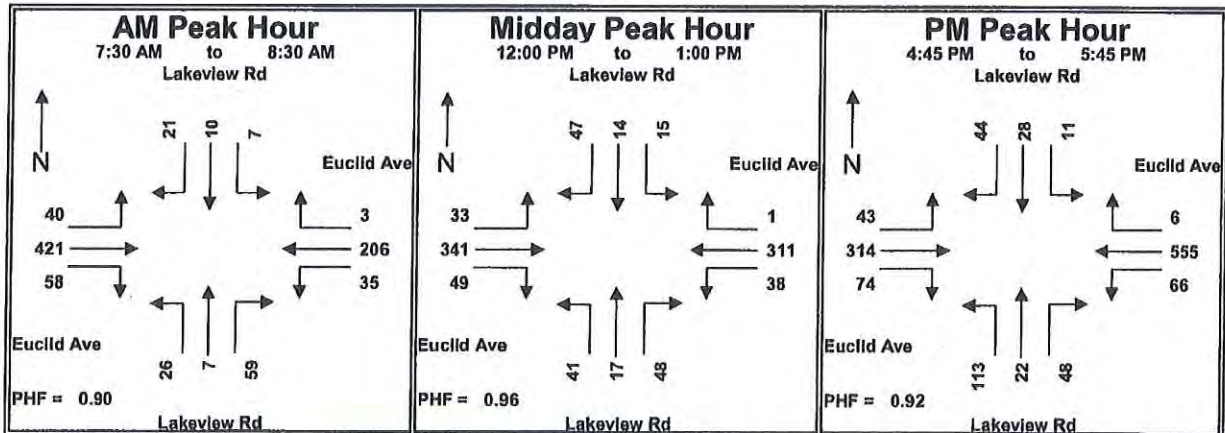


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 14, 2011	7:00 AM	10:00 AM	Cool
0.921	Tuesday	June 14, 2011	11:00 AM	2:00 PM	Sunny
0.921	Tuesday	June 14, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Lakeview Rd Northbound				Lakeview Rd Southbound				Total South	Euclid Ave Eastbound				Euclid Ave Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	555	126	387	10	100	153	327	3	1648	317	2985	489	60	359	2923	30	63	7103	8751
ADT	869	197	606	16	157	240	512	5	2581	497	4675	766	94	562	4578	47	99	11126	13707
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 2%				Percent Trucks = 2%					



Notes:

15-Minute Count Data

Euclid Ave and Lee Blvd

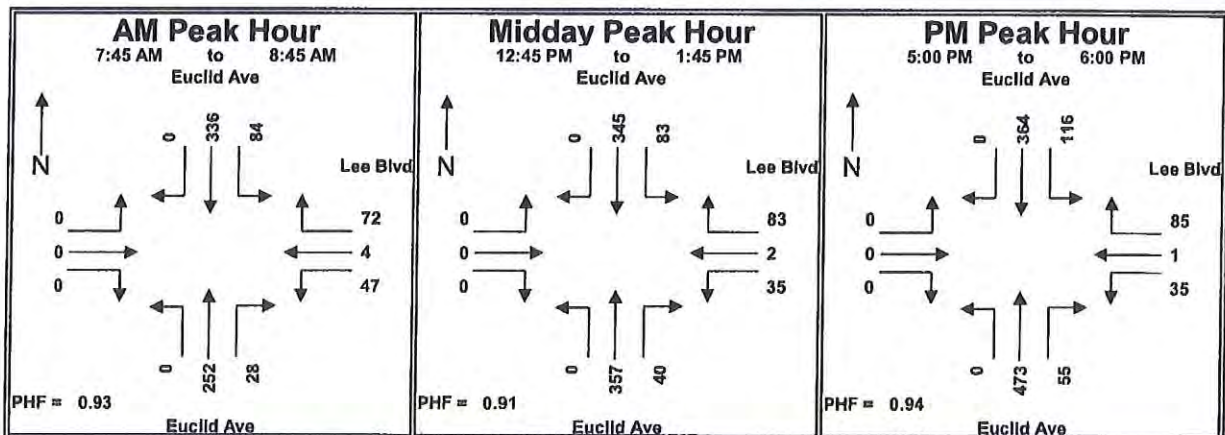


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.894	Thursday	May 19, 2011	7:00 AM	10:00 AM	
0.894	Thursday	May 19, 2011	11:00 AM	2:00 PM	
0.894	Thursday	May 19, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Eastbound				Lee Blvd Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	3025	407	82	751	2974	3	55	7160	0	0	0	0	353	14	663	22	1030	8190
ADT	0	4599	619	125	1142	4522	5	84	10886	0	0	0	0	537	21	1008	33	1566	12452
	Percent Trucks = 2%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 2%					



Notes:

15-Minute Count Data Euclid Ave and Marloes Ave

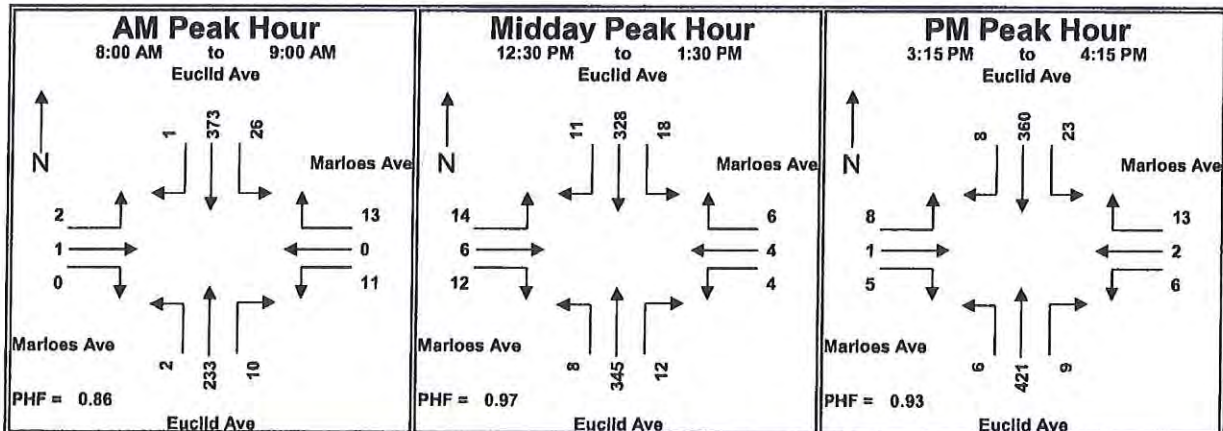


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 31, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 31, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 31, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Marloes Ave Eastbound				Marloes Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	50	2851	74	20	146	2884	53	32	6058	58	17	59	0	46	18	54	0	252	6310
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	78	4461	116	31	228	4512	83	50	9479	91	27	92	0	72	28	84	0	394	9873



Notes:

15-Minute Count Data Euclid Ave and Noble Rd



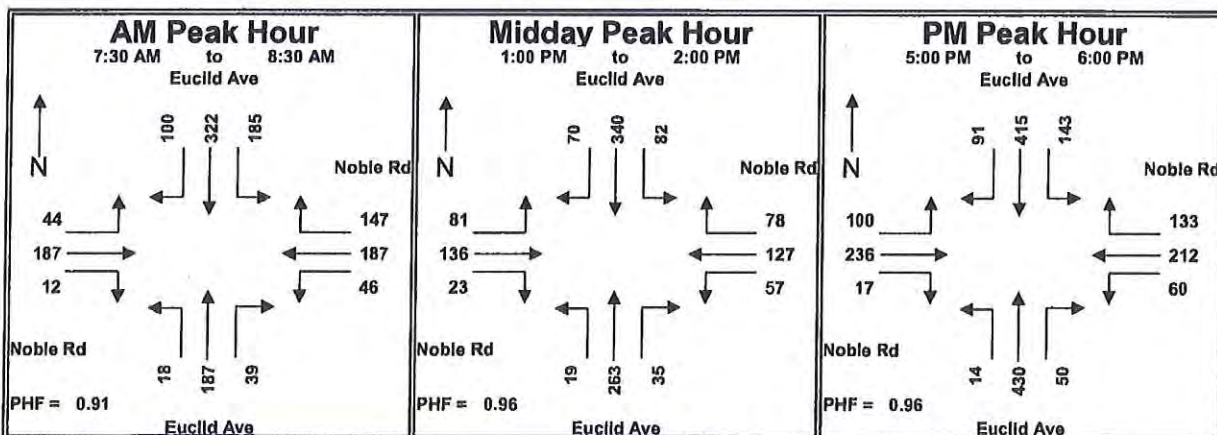
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 10, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 10, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 10, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North	Noble Rd Eastbound				Noble Rd Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	151	2519	367	61	1058	2954	661	116	7610	605	1427	140	50	457	1334	855	29	4818	12428
ADT	236	3941	574	95	1655	4465	1034	181	11907	947	2233	219	78	715	2087	1338	45	7538	19445
	Percent Trucks = 2%				Percent Trucks = 3%					Percent Trucks = 2%				Percent Trucks = 1%					



Notes:

15-Minute Count Data

Euclid Ave and Walgreen's and Rosemont Rd

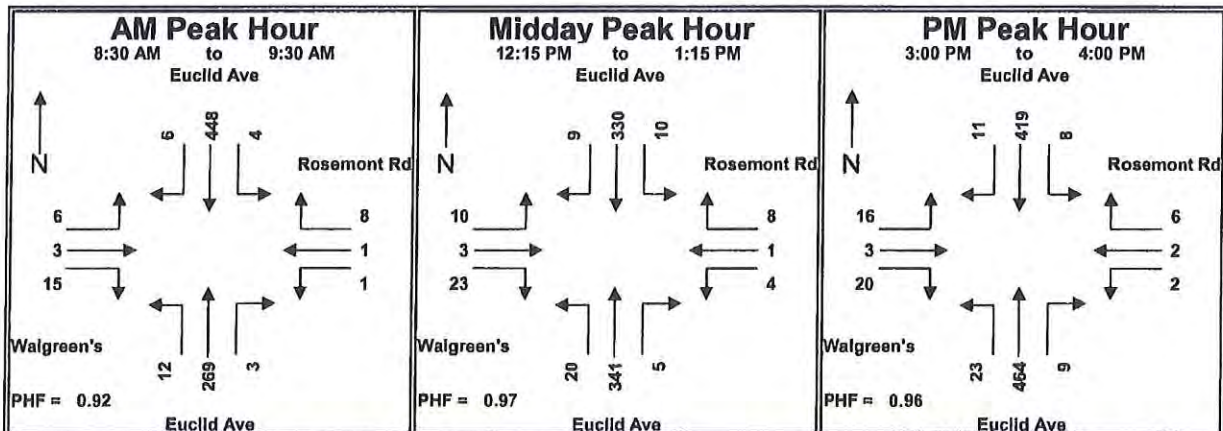


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.912	Wednesday	May 18, 2011	7:00 AM	10:00 AM	
0.912	Wednesday	May 18, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 18, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total South	Walgreen's Eastbound				Rosemont Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	135	3129	48	89	70	3165	86	77	6633	103	20	129	0	36	16	87	1	391	7024
	Percent Trucks = 3%				Percent Trucks = 2%					Percent Trucks = 0%				Percent Trucks = 1%					
ADT	209	4853	74	138	109	4909	133	119	10288	160	31	200	0	56	25	135	2	606	10894



Notes:

15-Minute Count Data RTA Dr and Euclid Ave

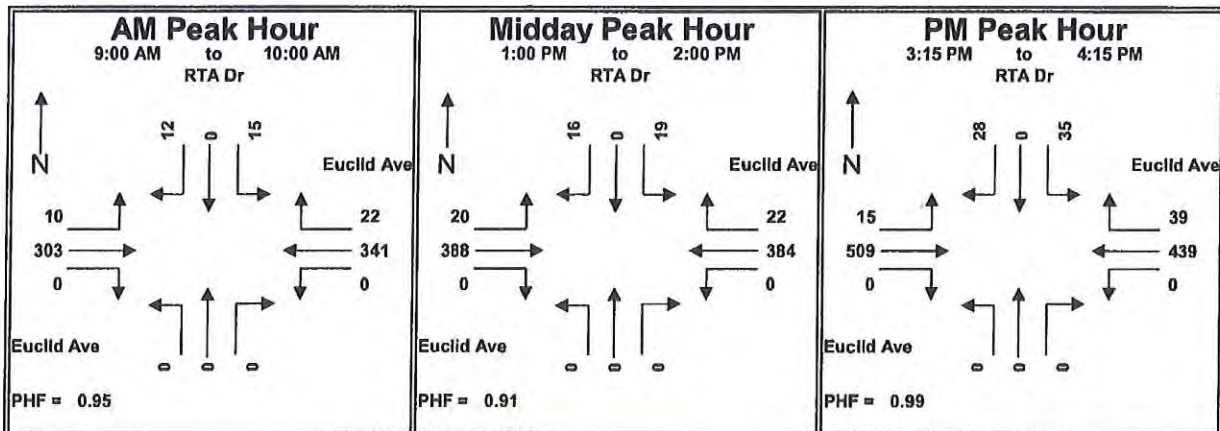


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 2, 2011	7:00 AM	10:00 AM	
0.886	Thursday	June 2, 2011	11:00 AM	2:00 PM	
0.886	Thursday	June 2, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Northbound				RTA Dr Southbound				Total North	Euclid Ave Eastbound				Euclid Ave Westbound			Total East	Total All Dir.	
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		South	LT	THRU	RT	Truck	LT	THRU			RT
Totals	0	0	0	0	203	0	177	1	380	129	3240	3	93	0	3253	263	86	6888	7268
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 3%				Percent Trucks = 2%					
ADT	0	0	0	0	306	0	267	2	573	194	4882	5	140	0	4902	396	130	10379	10951



Notes:

15-Minute Count Data

Euclid Ave and Shaw Ave

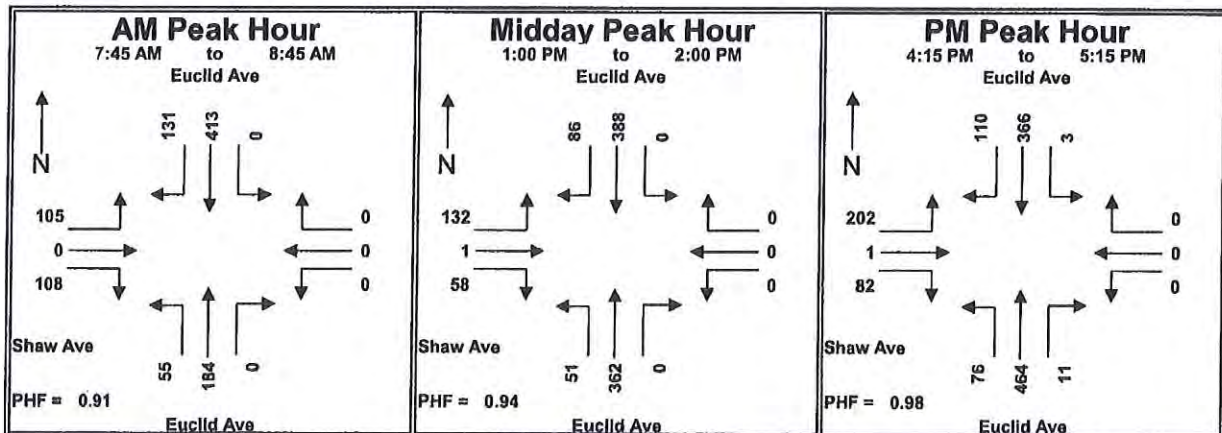


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.912	Wednesday	May 11, 2011	7:00 AM	10:00 AM	
0.912	Wednesday	May 11, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 11, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Shaw Ave Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	577	2868	11	45	3	3137	847	127	7443	1134	4	695	28	0	0	0	0	1833	9276
ADT	895	4448	17	70	5	4866	1314	197	11544	1759	6	1078	43	0	0	0	0	2843	14387
	Percent Trucks = 1%				Percent Trucks = 3%					Percent Trucks = 2%				Percent Trucks = 0%					
7:00 AM	6	39	0	0	0	44	13	1	102	12	0	16	0	0	0	0	0	28	130
7:15 AM	9	30	0	1	0	77	17	3	133	17	0	10	1	0	0	0	0	27	160
7:30 AM	10	24	0	1	0	72	11	2	117	17	0	22	0	0	0	0	0	39	156
7:45 AM	16	36	0	0	0	106	32	5	190	21	0	26	0	0	0	0	0	47	237
8:00 AM	11	51	0	1	0	106	37	5	205	23	0	28	0	0	0	0	0	51	256
8:15 AM	12	32	0	1	0	96	30	4	170	32	0	26	0	0	0	0	0	58	228
8:30 AM	16	65	0	0	0	105	32	5	218	29	0	28	1	0	0	0	0	57	275
8:45 AM	10	57	0	1	0	63	16	3	146	32	0	25	1	0	0	0	0	57	203
9:00 AM	12	65	0	0	0	72	17	1	166	23	0	24	2	0	0	0	0	47	213
9:15 AM	13	63	0	0	0	90	16	7	182	21	0	23	2	0	0	0	0	44	226
9:30 AM	16	61	0	3	0	80	24	4	181	28	0	15	1	0	0	0	0	43	224
9:45 AM	9	75	0	3	0	77	16	6	177	22	0	16	1	0	0	0	0	38	215
11:00 AM	22	63	0	2	0	82	33	5	200	15	0	26	4	0	0	0	0	41	241
11:15 AM	24	89	0	3	0	58	36	7	207	25	0	11	0	0	0	0	0	36	243
11:30 AM	14	73	0	4	0	86	25	9	198	33	0	22	0	0	0	0	0	55	253
11:45 AM	17	82	0	1	0	72	26	4	197	23	0	16	0	0	0	0	0	39	236
12:00 PM	18	93	0	3	0	81	23	1	215	30	0	18	1	0	0	0	0	48	263
12:15 PM	22	76	0	2	0	80	19	6	197	25	0	18	0	0	0	0	0	43	240
12:30 PM	12	73	0	0	0	72	20	3	177	17	0	11	1	0	0	0	0	28	205
12:45 PM	14	67	0	5	0	79	20	5	180	21	0	11	0	0	0	0	0	32	212
1:00 PM	10	87	0	0	0	103	27	2	227	29	0	17	1	0	0	0	0	46	273
1:15 PM	12	100	0	1	0	88	16	4	216	35	0	12	0	0	0	0	0	47	263
1:30 PM	14	71	0	1	0	99	24	4	208	36	1	10	0	0	0	0	0	47	255
1:45 PM	15	104	0	1	0	98	19	7	236	32	0	19	2	0	0	0	0	51	287
3:00 PM	17	107	0	0	0	108	22	6	254	45	0	18	2	0	0	0	0	63	317
3:15 PM	16	103	0	0	0	104	24	2	247	48	0	23	0	0	0	0	0	71	318
3:30 PM	20	99	0	0	0	99	20	0	238	26	0	21	0	0	0	0	0	47	285
3:45 PM	28	93	0	1	0	105	30	5	256	38	1	17	0	0	0	0	0	56	312
4:00 PM	28	77	0	0	0	104	22	0	231	44	0	25	1	0	0	0	0	69	300
4:15 PM	19	116	0	1	3	82	41	0	261	49	0	21	1	0	0	0	0	70	331
4:30 PM	29	123	0	1	0	90	23	4	265	52	0	19	1	0	0	0	0	71	336
4:45 PM	15	105	0	0	0	104	19	1	243	53	1	20	3	0	0	0	0	74	317
5:00 PM	13	120	11	1	0	90	27	3	261	48	0	22	0	0	0	0	0	70	331
5:15 PM	18	110	0	3	0	74	27	2	229	42	0	21	2	0	0	0	0	63	292
5:30 PM	21	117	0	1	0	96	15	0	249	45	0	15	0	0	0	0	0	60	309
5:45 PM	19	122	0	3	0	95	28	1	264	46	1	23	0	0	0	0	0	70	334



Notes:

15-Minute Count Data

Euclid Ave and Strathmore Ave and Stanwood Rd

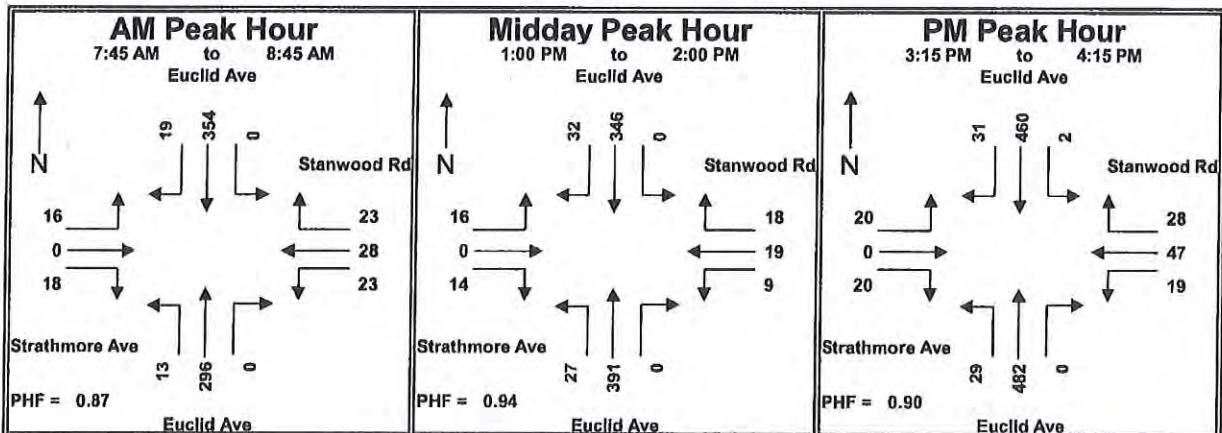


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 17, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 17, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 17, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Strathmore Ave Eastbound				Stanwood Rd Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	165	3162	1	46	3	3317	202	83	6850	131	0	140	5	102	199	178	2	750	7600
	Percent Trucks = 1%				Percent Trucks = 2%					Percent Trucks = 2%				Percent Trucks = 0%					
ADT	258	4947	2	72	5	5190	316	130	10718	205	0	219	8	160	311	279	3	1173	11891



Notes:

15-Minute Count Data Euclid Ave and Superior Rd

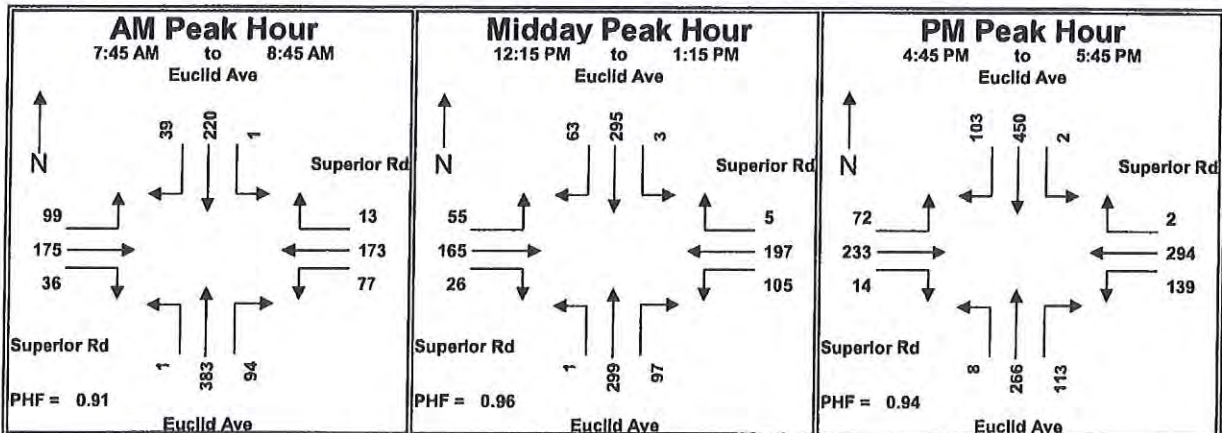


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.912	Wednesday	May 25, 2011	7:00 AM	10:00 AM	
0.912	Wednesday	May 25, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 25, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Superior Rd Eastbound				Superior Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	25	2631	850	39	12	2656	557	78	6731	557	1676	177	30	916	1820	65	40	5211	11942
	Percent Trucks = 1%				Percent Trucks = 2%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	39	4081	1318	60	19	4120	864	121	10440	864	2600	275	47	1421	2823	101	62	8082	18522



Notes:

15-Minute Count Data Euclid Ave and Taylor Rd

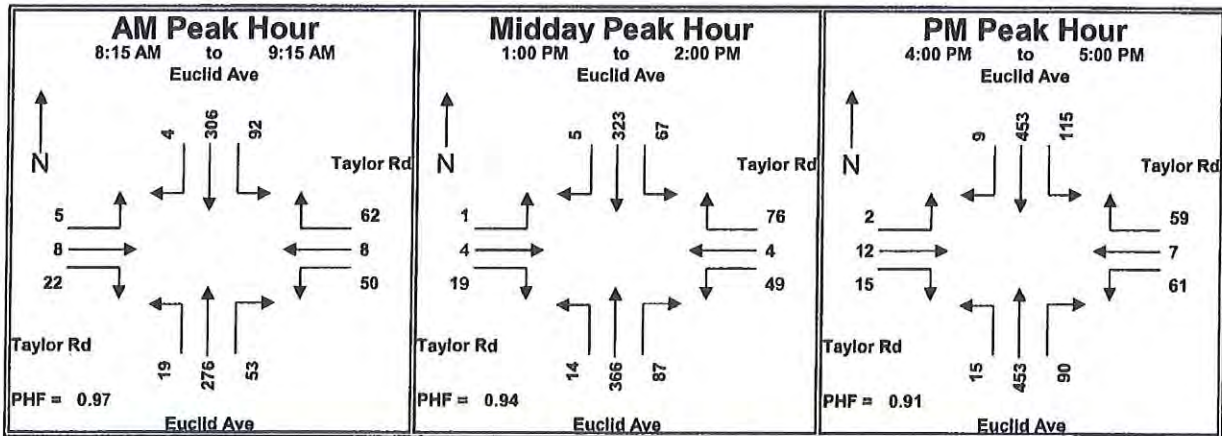


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.916	Wednesday	June 1, 2011	7:00 AM	10:00 AM	
0.916	Wednesday	June 1, 2011	11:00 AM	2:00 PM	
0.916	Wednesday	June 1, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total South	Taylor Rd Eastbound			Taylor Rd Westbound			Total East West	Total All Dir.		
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU			RT	Truck
Totals	164	3077	628	27	759	3229	50	29	7907	19	66	143	0	463	66	493	3	1250	9157
ADT	255	4793	978	42	1182	5030	78	45	12318	30	103	223	0	721	103	768	5	1947	14265
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%			Percent Trucks = 0%						



Notes:

15-Minute Count Data

Euclid Ave and RTA Dr and Beersford Rd

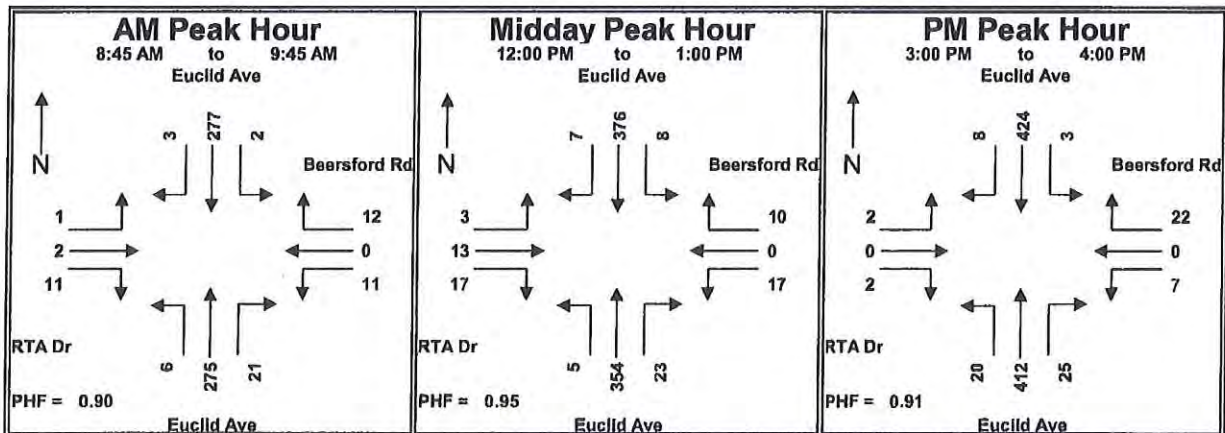


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 24, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 24, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 24, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	RTA Dr Eastbound				Beersford Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	55	2993	144	99	55	3048	56	71	6351	29	43	71	5	93	1	127	2	364	6715
	Percent Trucks = 3%				Percent Trucks = 2%					Percent Trucks = 3%				Percent Trucks = 1%					
ADT	86	4683	225	155	86	4769	88	111	9937	45	67	111	8	146	2	199	3	570	10506



Notes:

15-Minute Count Data Hayden Ave and Alder Ave

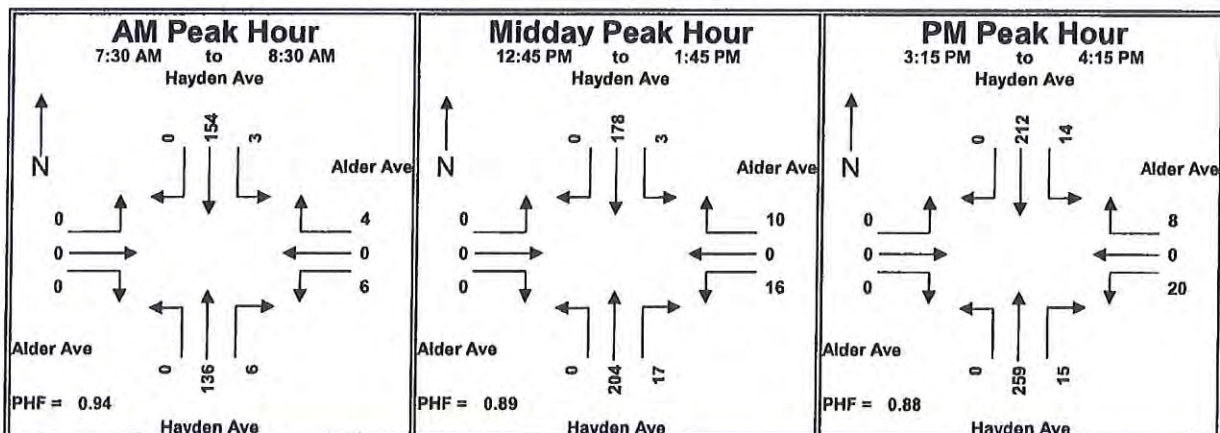


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.884	Thursday	May 19, 2011	7:00 AM	10:00 AM	
0.884	Thursday	May 19, 2011	11:00 AM	2:00 PM	
0.884	Thursday	May 19, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Alder Ave Eastbound				Alder Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	1561	100	13	54	1558	1	22	3274	0	0	0	0	97	0	45	0	142	3416
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	2355	151	20	81	2350	2	33	4939	0	0	0	0	146	0	68	0	214	5153



Notes:

15-Minute Count Data Hayden Ave and Holyoke Ave

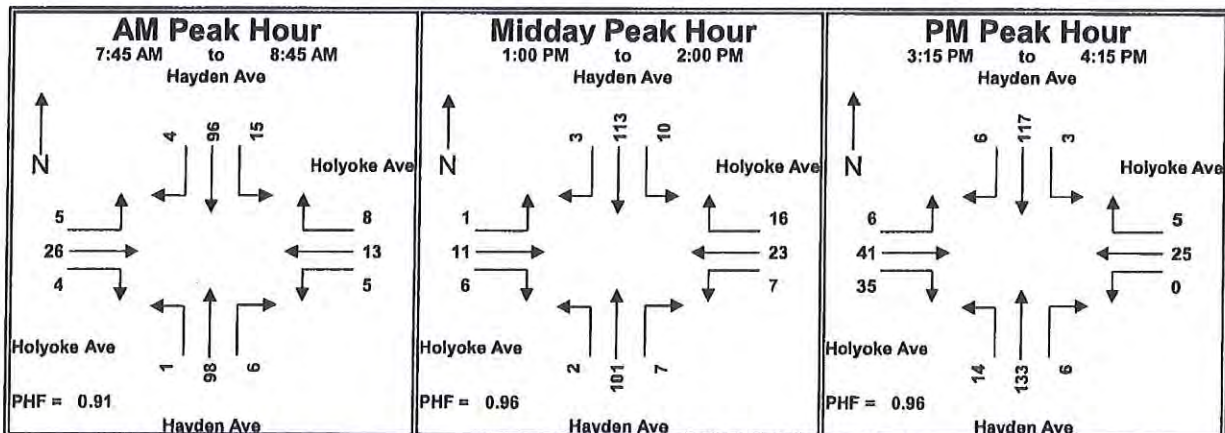


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.981	Monday	May 16, 2011	7:00 AM	10:00 AM	
0.981	Monday	May 16, 2011	11:00 AM	2:00 PM	
0.981	Monday	May 16, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Holyoke Ave Eastbound				Holyoke Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	49	835	59	0	78	893	49	1	1963	28	192	104	0	34	171	83	0	612	2575
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	82	1398	99	0	131	1496	82	2	3288	47	322	174	0	57	286	139	0	1025	4312



Notes:

15-Minute Count Data Hayden Ave and Lakefront Ave

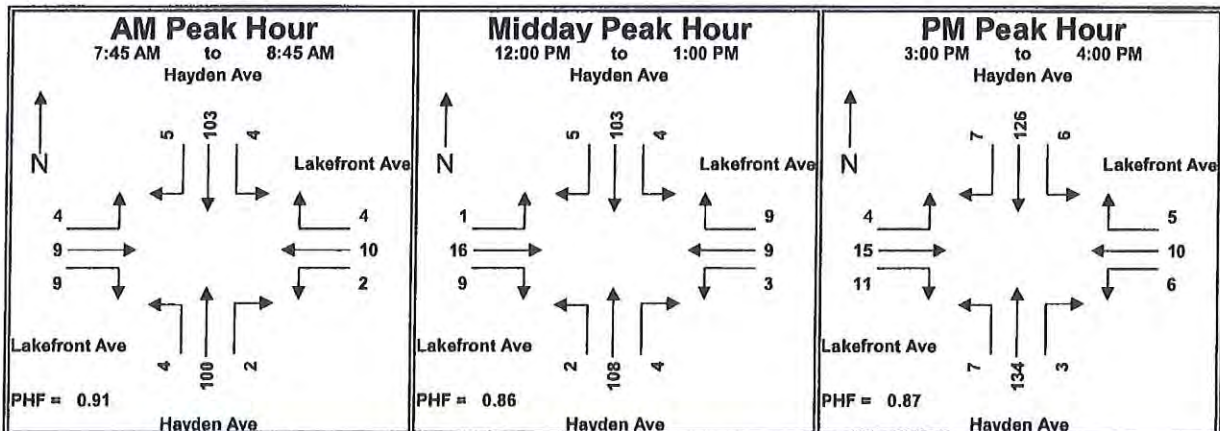


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 17, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 17, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 17, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Lakefront Ave Eastbound				Lakefront Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	41	881	24	0	36	903	30	0	1915	42	113	83	0	15	75	32	0	360	2275
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	64	1367	37	0	56	1401	47	0	2971	65	175	129	0	23	116	50	0	558	3529



Notes:

15-Minute Count Data Hayden Ave and Mann Ave

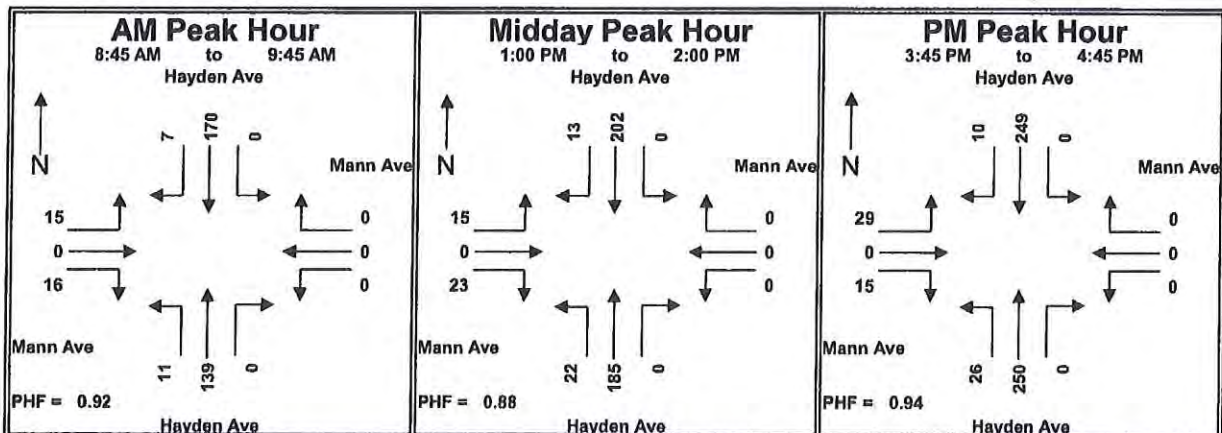


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 18, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 18, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 18, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Mann Ave Eastbound				Mann Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	131	1492	1	11	0	1622	60	7	3306	153	1	132	0	0	0	0	0	286	3592
	Percent Trucks = 1%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	201	2286	2	17	0	2486	92	11	5066	234	2	202	0	0	0	0	0	438	5504



Notes:

15-Minute Count Data

Hayden Ave and Claiborne Rd and Northfield Ave E. Cleveland, Ohio

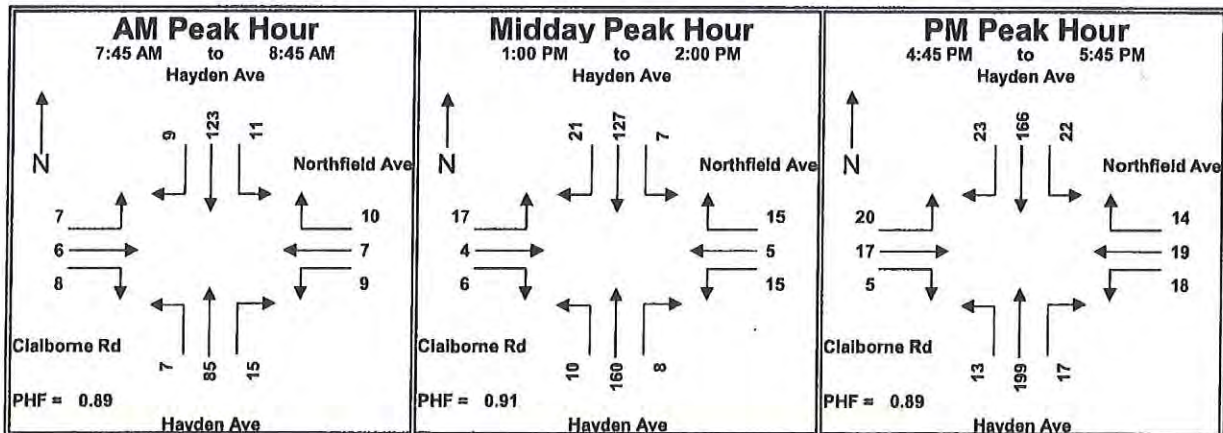


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.954	Tuesday	June 7, 2011	7:00 AM	10:00 AM	Rain
0.954	Tuesday	June 7, 2011	11:00 AM	2:00 PM	Hot
0.954	Tuesday	June 7, 2011	3:00 PM	6:00 PM	Hot

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Claiborne Rd Eastbound				Northfield Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	66	1189	116	32	96	1149	144	19	2760	115	64	49	1	90	95	94	2	507	3267
	Percent Trucks = 2%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 1%					
ADT	107	1936	189	52	156	1871	234	31	4493	187	104	80	2	147	155	153	3	825	5319



Notes:

15-Minute Count Data Hayden Ave and Shaw Ave

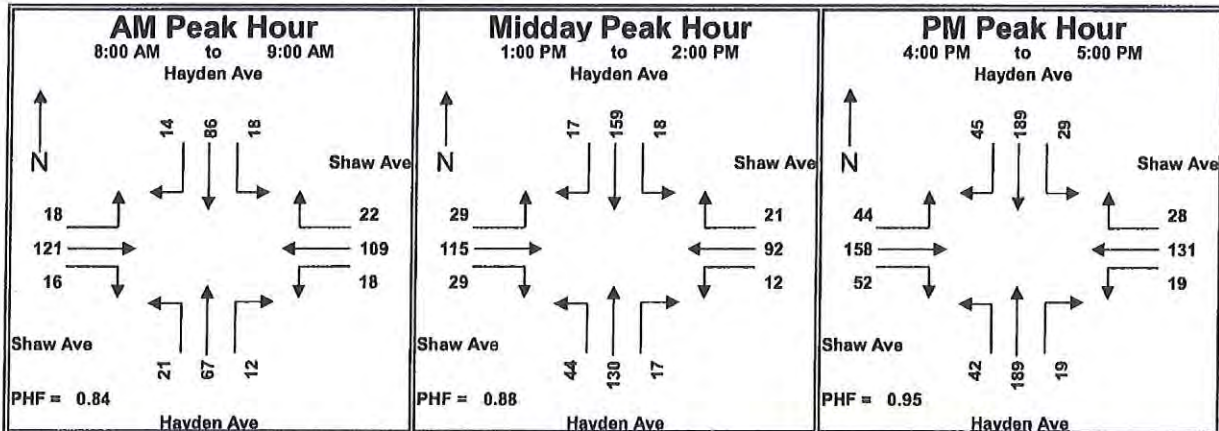


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 10, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 10, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 10, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Shaw Ave Eastbound				Shaw Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	268	1105	156	6	187	1129	222	0	3067	249	1064	264	2	130	866	187	4	2760	5827
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	416	1714	242	9	290	1751	344	0	4758	386	1650	410	3	202	1343	290	6	4281	9039



Notes:

15-Minute Count Data

Hayden Ave and 6th Ave and Mayfair Ave

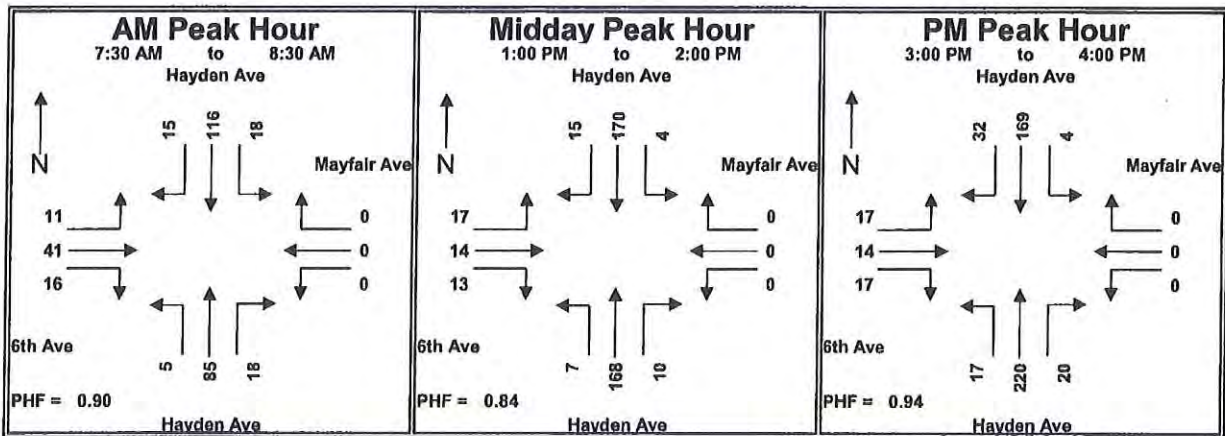


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 11, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 11, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 11, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total South	6th Ave Eastbound				Mayfair Ave Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	94	1259	93	2	43	1235	166	5	2890	152	153	137	0	0	0	0	0	442	3332
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	144	1929	143	3	66	1893	254	8	4429	233	234	210	0	0	0	0	0	677	5106



Notes:

15-Minute Count Data

Hayden Ave and Parking Lot and Strathmore Ave E. Cleveland, Ohio

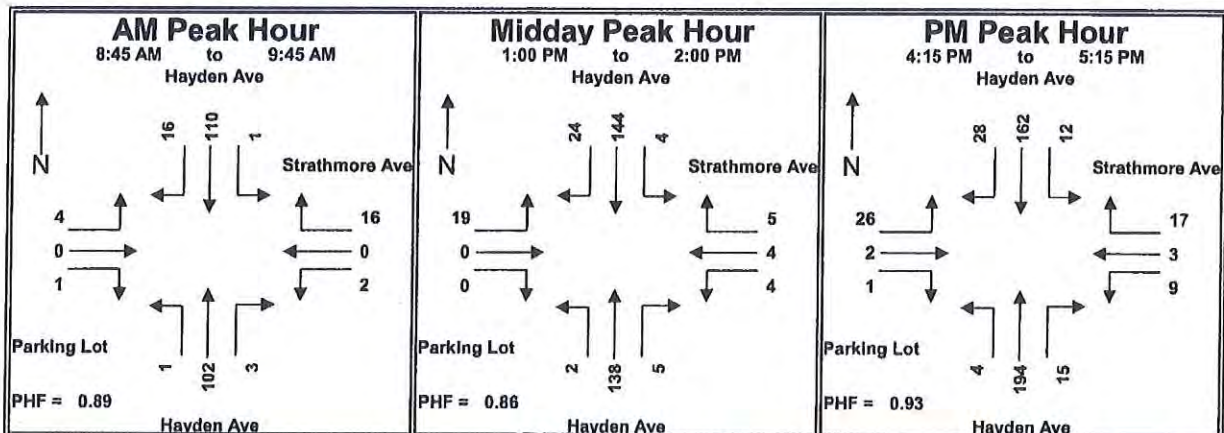


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.916	Wednesday	June 22, 2011	7:00 AM	10:00 AM	Warm
0.916	Wednesday	June 22, 2011	11:00 AM	2:00 PM	Sunny
0.916	Wednesday	June 22, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Parking Lot Eastbound				Strathmore Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	18	1177	55	4	49	1156	136	6	2591	107	13	10	0	44	22	98	0	294	2885
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	28	1834	86	6	76	1801	212	9	4036	167	20	16	0	69	34	153	0	458	4494



Notes:

15-Minute Count Data

Lee Blvd and Forest Hills Blvd

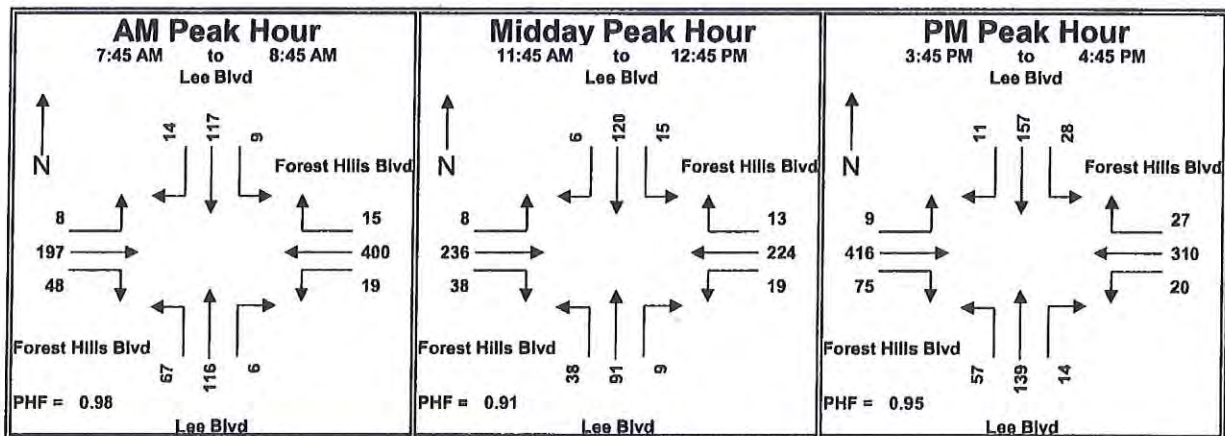


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 24, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 24, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 24, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Lee Blvd Northbound				Lee Blvd Southbound				Total South	Forest Hills Blvd Eastbound			Forest Hills Blvd Westbound			Total East	Total All Dir.		
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU			RT	Truck
Totals	449	961	72	1	141	1108	104	3	2835	63	2359	484	2	142	2332	155	2	5535	8370
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%			Percent Trucks = 0%						
ADT	696	1491	112	2	219	1719	161	5	4398	98	3659	751	3	220	3617	240	3	8586	12983



Notes:

15-Minute Count Data

GE and Noble Rd

E. Cleveland, Ohio

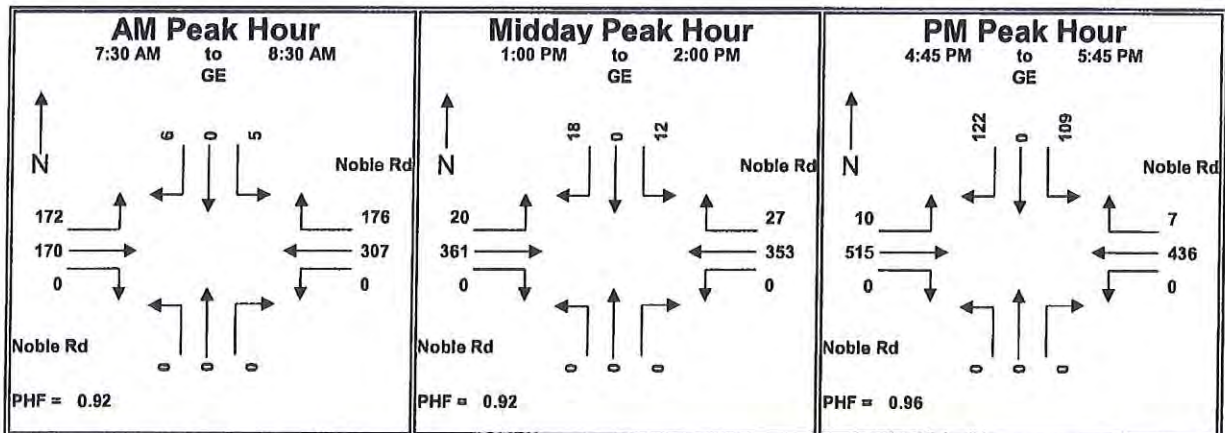


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.916	Wednesday	June 15, 2011	7:00 AM	10:00 AM	Warm
0.916	Wednesday	June 15, 2011	11:00 AM	2:00 PM	Sunny
0.916	Wednesday	June 15, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Northbound				GE Southbound				Total South	Noble Rd Eastbound				Noble Rd Westbound			Total East	Total All Dir.	
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT			Truck
Totals	0	0	0	0	303	2	330	18	635	352	2953	0	40	1	2981	363	34	6650	7285
ADT	0	0	0	0	472	3	514	28	989	548	4600	0	62	2	4644	565	53	10360	11349
	Percent Trucks = 0%				Percent Trucks = 3%					Percent Trucks = 1%				Percent Trucks = 1%					



Notes:

15-Minute Count Data

Helmsdale Rd and Noble Rd

E. Cleveland, Ohio

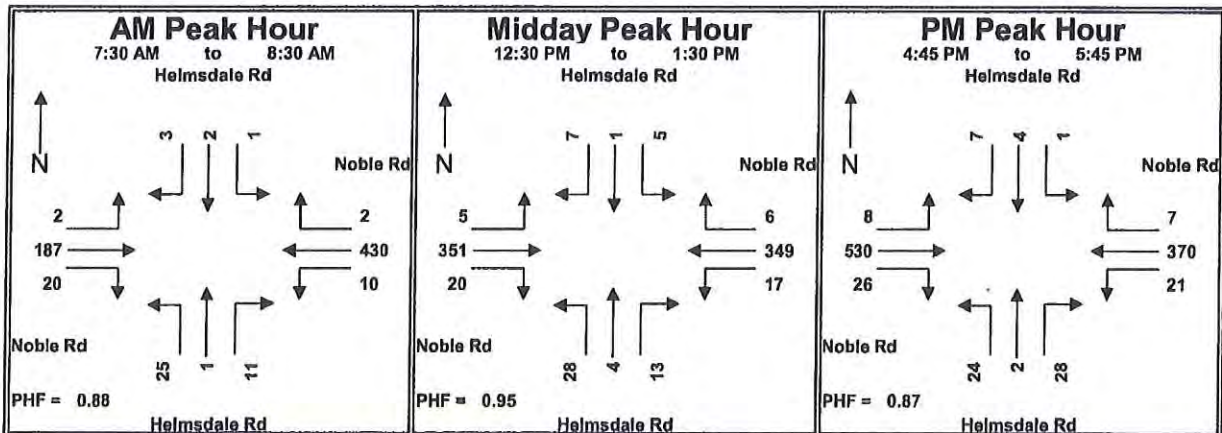


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.936	Monday	June 13, 2011	7:00 AM	10:00 AM	Cloudy
0.936	Monday	June 13, 2011	11:00 AM	2:00 PM	Cloudy
0.936	Monday	June 13, 2011	3:00 PM	6:00 PM	Cloudy

ADT Factor: 1.70
Intersection ID: 1

Start Time	Helmsdale Rd Northbound				Helmsdale Rd Southbound				Total North South	Noble Rd Eastbound				Noble Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	184	13	143	2	15	12	39	2	406	34	2858	190	21	141	3010	32	22	6265	6671
ADT	293	21	228	3	24	19	62	3	646	54	4549	302	33	224	4791	51	35	9973	10619
	Percent Trucks = 1%				Percent Trucks = 3%					Percent Trucks = 1%				Percent Trucks = 1%					



Notes:

15-Minute Count Data

Nela View Rd and Noble Rd

E. Cleveland, Ohio

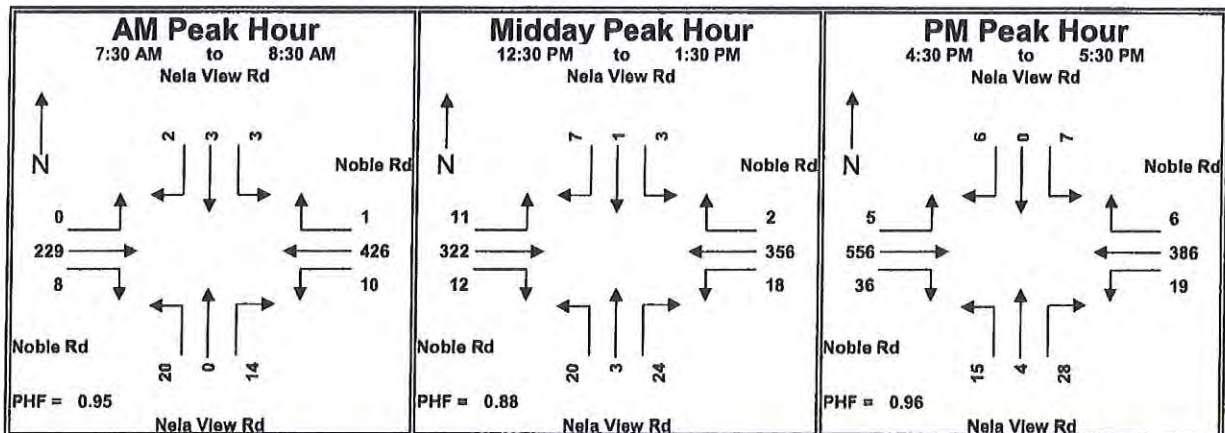


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 16, 2011	7:00 AM	10:00 AM	Rain
0.886	Thursday	June 16, 2011	11:00 AM	2:00 PM	Rain
0.886	Thursday	June 16, 2011	3:00 PM	6:00 PM	Rain

ADT Factor: 1.70
Intersection ID: 1

Start Time	Nela View Rd Northbound				Nela View Rd Southbound				Total North South	Noble Rd Eastbound				Noble Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	164	13	156	2	33	15	44	1	425	55	3127	139	31	134	3083	34	41	6572	6997
ADT	247	20	235	3	50	23	66	2	640	83	4712	209	47	202	4645	51	62	9903	10543
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 1%				Percent Trucks = 1%					



Notes:

15-Minute Count Data Terrace Rd and Noble Rd

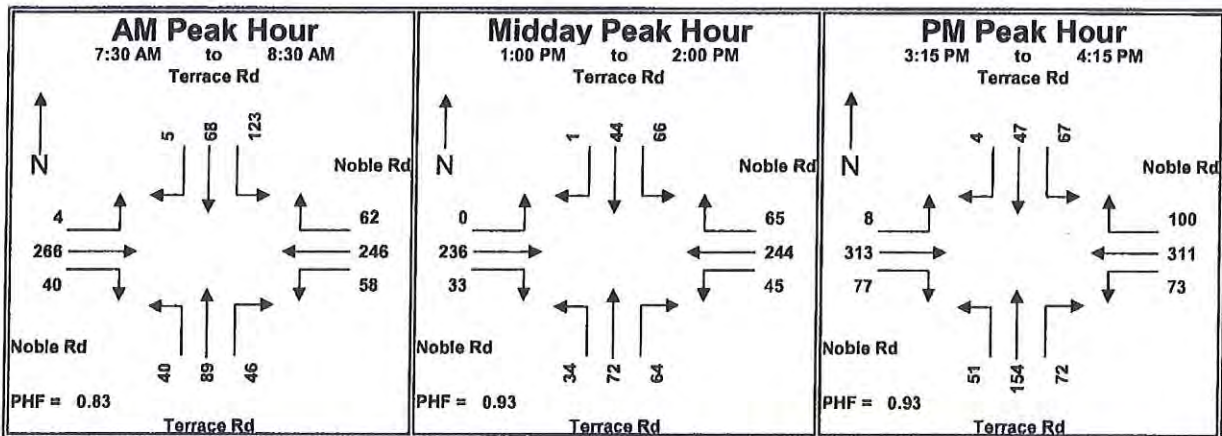


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 31, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 31, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 31, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total South	Noble Rd Eastbound				Noble Rd Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	302	801	466	4	614	420	24	2	2627	25	2225	353	22	468	2177	689	23	5937	8564
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	468	1243	723	6	952	652	37	3	4075	39	3451	548	34	726	3377	1069	36	9209	13284



Notes:

15-Minute Count Data Allegheny Ave and Shaw Ave

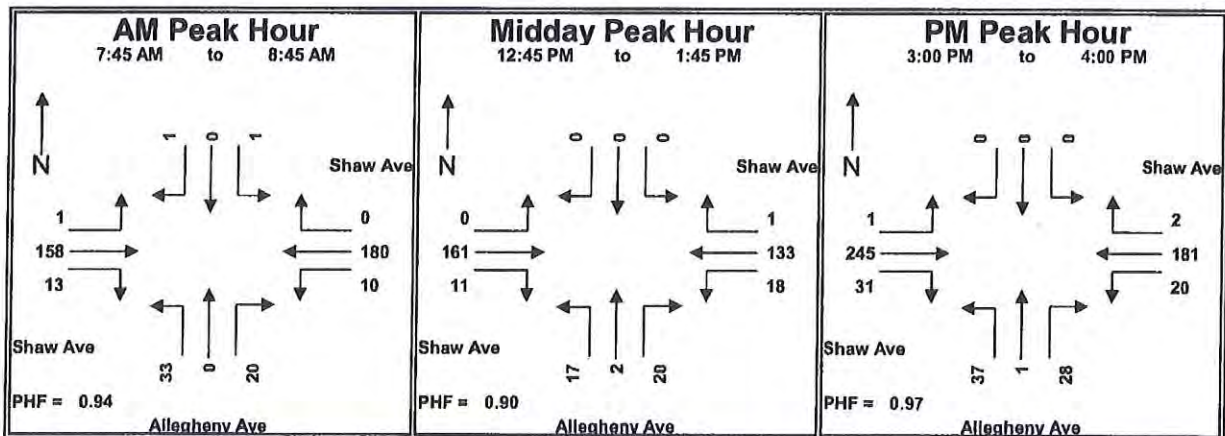


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 11, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 11, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 11, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Allegheny Ave Northbound				Southbound				Total North South	Shaw Ave Eastbound				Shaw Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	158	3	179	5	7	0	3	2	350	6	1517	112	33	119	1259	5	21	3018	3368
	Percent Trucks = 1%				Percent Trucks = 20%					Percent Trucks = 2%				Percent Trucks = 2%					
ADT	242	5	274	8	11	0	5	3	536	9	2325	172	51	182	1929	8	32	4625	5161



Notes:

15-Minute Count Data

E. 133rd Street and Shaw Avenue

E. Cleveland, Ohio

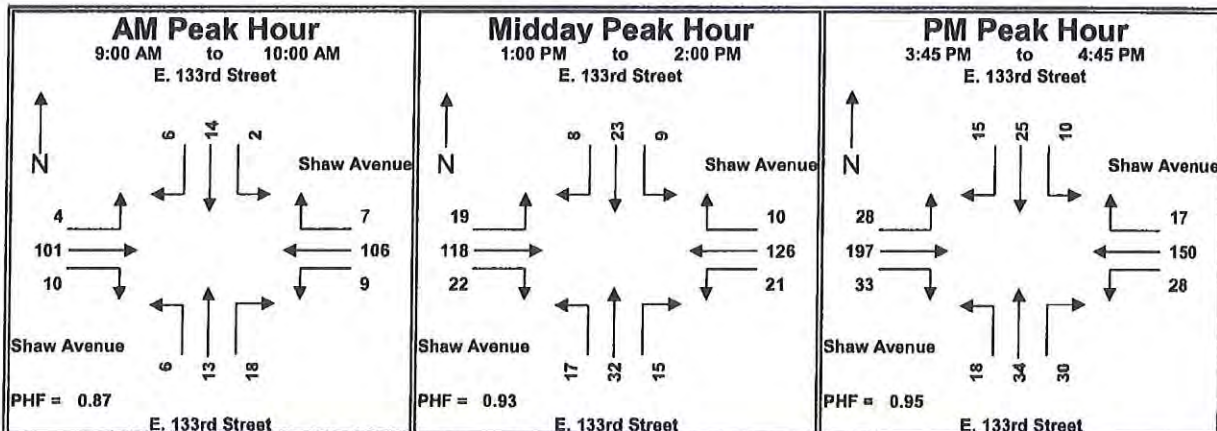


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.944	Wednesday	June 8, 2011	7:00 AM	10:00 AM	Hot
0.944	Wednesday	June 8, 2011	11:00 AM	2:00 PM	Hot
0.944	Wednesday	June 8, 2011	3:00 PM	6:00 PM	Hot

ADT Factor: 1.71
Intersection ID: 1

Start Time	E. 133rd Street Northbound				E. 133rd Street Southbound				Total South	Shaw Avenue Eastbound				Shaw Avenue Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	154	249	161	10	38	146	96	1	844	94	1144	176	13	137	1033	80	9	2664	3508
	Percent Trucks = 2%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	248	401	259	16	61	235	155	2	1360	151	1843	284	21	221	1664	129	14	4291	5651



Notes:

15-Minute Count Data Coventry Rd and Superior Ave

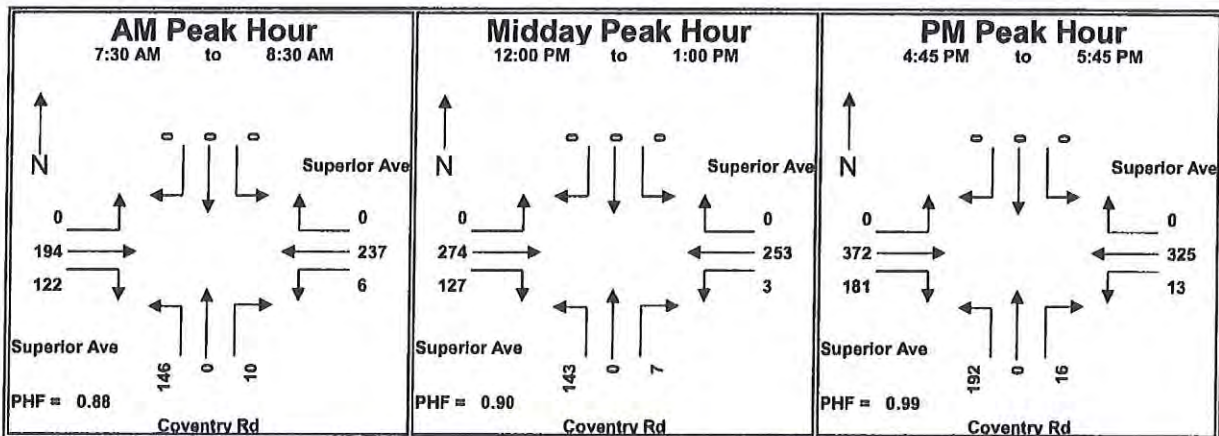


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 2, 2011	7:00 AM	10:00 AM	
0.886	Thursday	June 2, 2011	11:00 AM	2:00 PM	
0.886	Thursday	June 2, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Coventry Rd Northbound				Southbound				Total North	Superior Ave Eastbound				Superior Ave Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	1239	5	84	4	0	0	0	0	1328	1	2300	1213	30	55	2189	12	17	5770	7098
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	1867	8	127	6	0	0	0	0	2001	2	3466	1828	45	83	3298	18	26	8694	10695



Notes:

15-Minute Count Data

Eddington Rd and Superior Ave

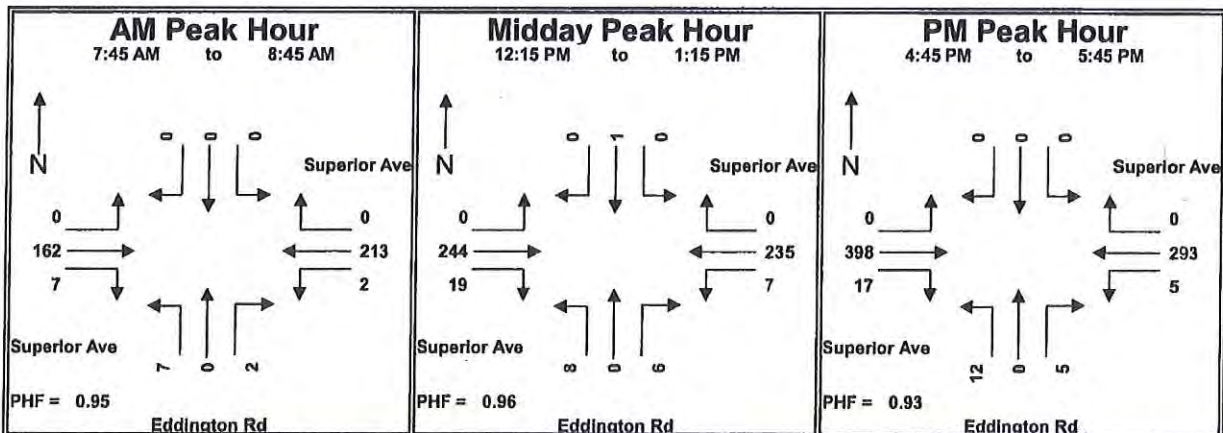


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 7, 2011	7:00 AM	10:00 AM	
0.921	Tuesday	June 7, 2011	11:00 AM	2:00 PM	
0.921	Tuesday	June 7, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Eddington Rd Northbound				Southbound				Total North South	Superior Ave Eastbound				Superior Ave Westbound			Total East West	Total All Dir.	
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT			Truck
Totals	60	0	41	1	0	1	0	0	102	0	2086	90	22	35	1950	0	17	4161	4263
	Percent Trucks = 1%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	94	0	64	2	0	2	0	0	160	0	3267	141	34	55	3054	0	27	6517	6677



Notes:

15-Minute Count Data Emily St and Superior Rd

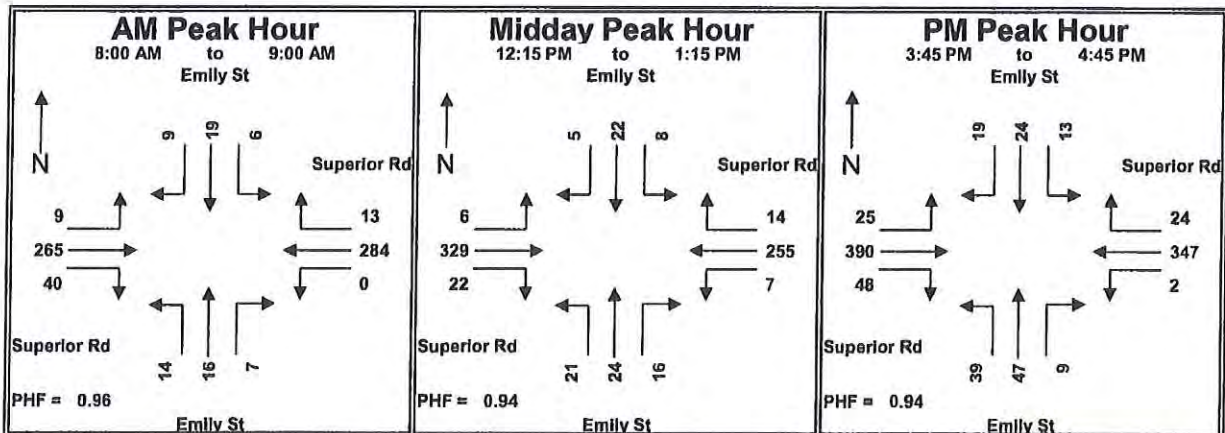


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 31, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 31, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 31, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Emily St Northbound				Emily St Southbound				Total North South	Superior Rd Eastbound				Superior Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	206	222	75	5	78	169	96	7	846	91	2806	265	29	19	2503	116	34	5800	6646
	Percent Trucks = 1%				Percent Trucks = 2%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	322	347	117	8	122	264	150	11	1324	142	4390	415	45	30	3916	181	53	9075	10399



Notes:

15-Minute Count Data Glenmont Rd and Superior Ave

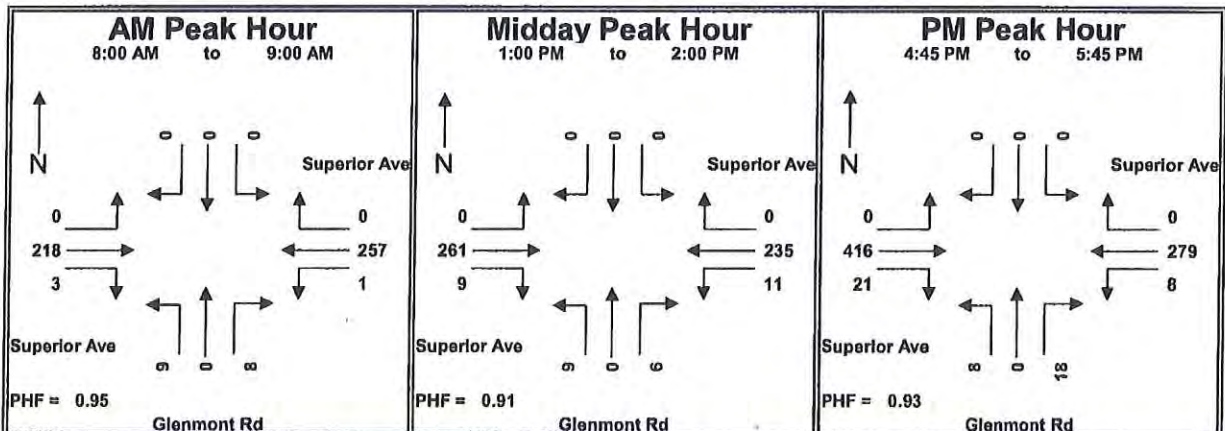


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.936	Monday	June 6, 2011	7:00 AM	10:00 AM	
0.936	Monday	June 6, 2011	11:00 AM	2:00 PM	
0.936	Monday	June 6, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Glenmont Rd Northbound				Southbound				Total North South	Superior Ave Eastbound				Superior Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	79	0	84	0	0	1	0	0	164	0	2370	72	19	51	2032	1	8	4526	4690
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 0%					
ADT	126	0	134	0	0	2	0	0	261	0	3773	115	30	81	3235	2	13	7205	7466



Notes:

15-Minute Count Data Hayden Ave and Superior Ave

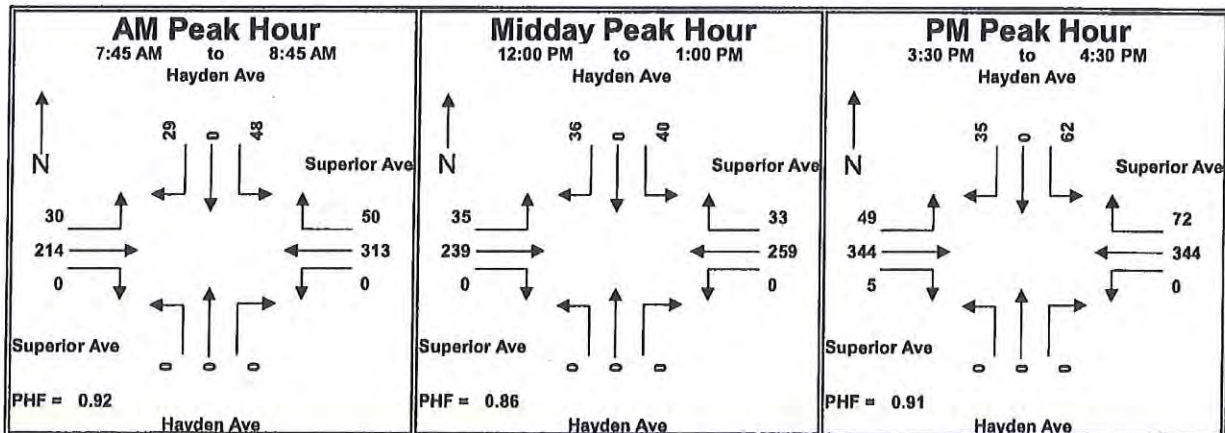


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
1.010	Monday	May 23, 2011	7:00 AM	10:00 AM	
1.010	Monday	May 23, 2011	11:00 AM	2:00 PM	
1.010	Monday	May 23, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Superior Ave Eastbound				Superior Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	0	0	0	465	7	247	2	719	286	2314	5	11	0	2326	408	6	5339	6058
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	0	0	0	799	12	424	3	1235	491	3975	9	19	0	3995	701	10	9171	10406



Notes:

15-Minute Count Data

Lockwood Ave and Superior Ave

E. Cleveland, Ohio

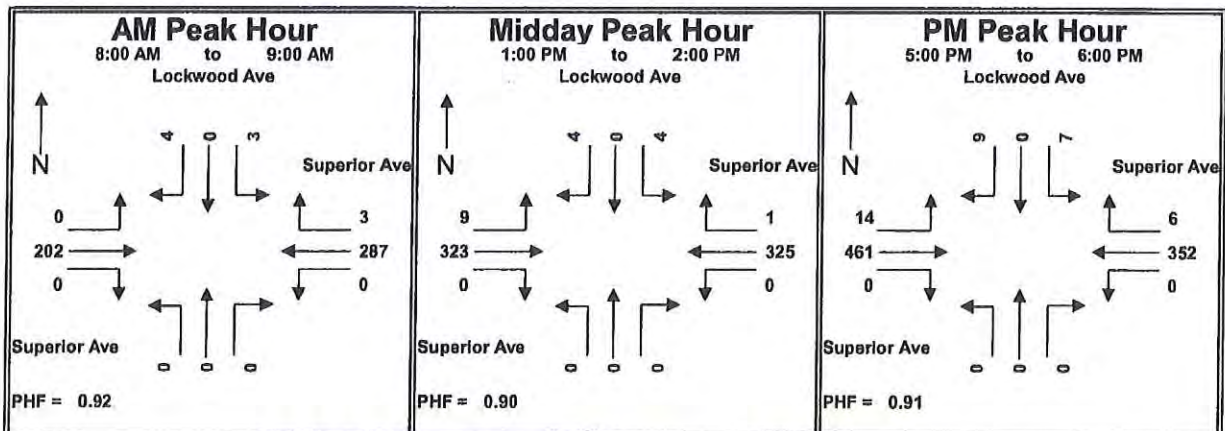


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 9, 2011	7:00 AM	10:00 AM	Rain
0.886	Thursday	June 9, 2011	11:00 AM	2:00 PM	Hot
0.886	Thursday	June 9, 2011	3:00 PM	6:00 PM	Mild

ADT Factor: 1.70
Intersection ID: 1

Start Time	Northbound				Lockwood Ave Southbound				Total North South	Superior Ave Eastbound				Superior Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	0	0	0	34	0	45	0	79	76	2681	2	33	0	2646	52	49	5457	5536
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 2%					
ADT	0	0	0	0	51	0	68	0	119	115	4040	3	50	0	3987	78	74	8223	8342



Notes:

15-Minute Count Data

Terrace Rd and Superior Ave



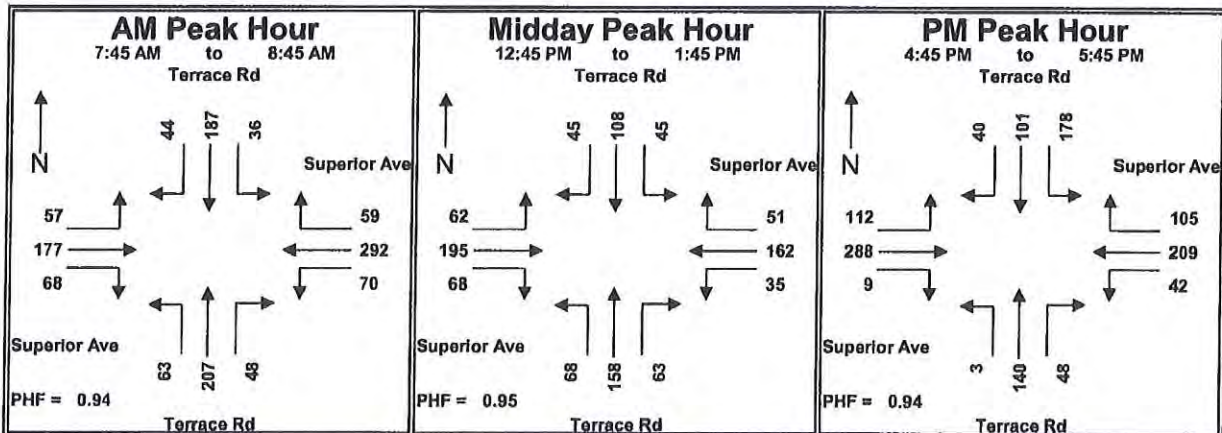
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 2, 2011	7:00 AM	10:00 AM	
0.886	Thursday	June 2, 2011	11:00 AM	2:00 PM	
0.886	Thursday	June 2, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Superior Ave Eastbound				Superior Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	346	1189	431	1	690	1125	366	1	4147	634	1781	436	4	393	1778	496	2	5518	9665
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	521	1792	649	2	1040	1695	551	2	6249	955	2684	657	6	592	2679	747	3	8315	14563



Notes:

15-Minute Count Data Terrace Rd and Belmore Rd

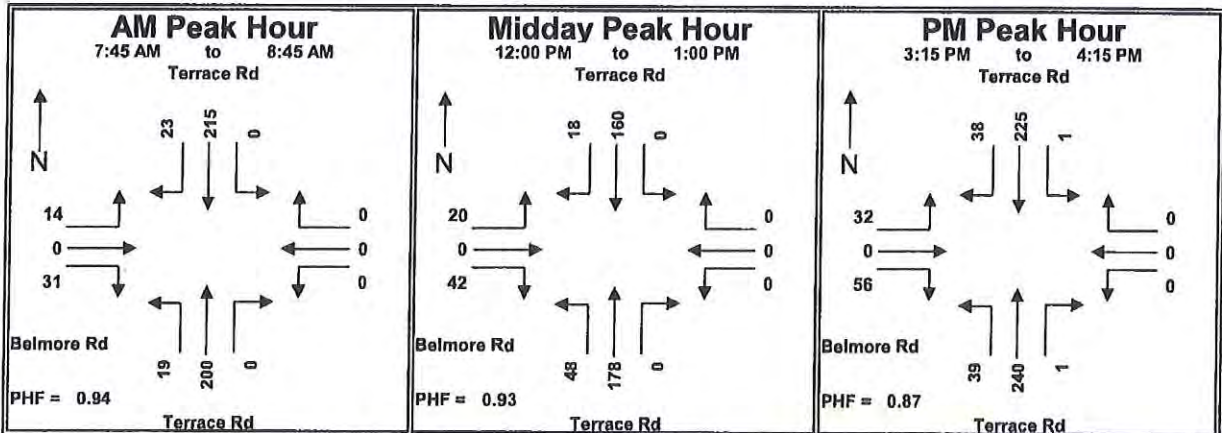


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.884	Thursday	May 26, 2011	7:00 AM	10:00 AM	
0.884	Thursday	May 26, 2011	11:00 AM	2:00 PM	
0.884	Thursday	May 26, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Belmore Rd Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	267	1615	1	1	2	1601	217	0	3703	185	1	355	4	0	0	0	0	541	4244
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 0%					
ADT	403	2436	2	2	3	2415	327	0	5586	279	2	536	6	0	0	0	0	816	6402



Notes:

15-Minute Count Data

Terrace Rd and Forest Hills Blvd

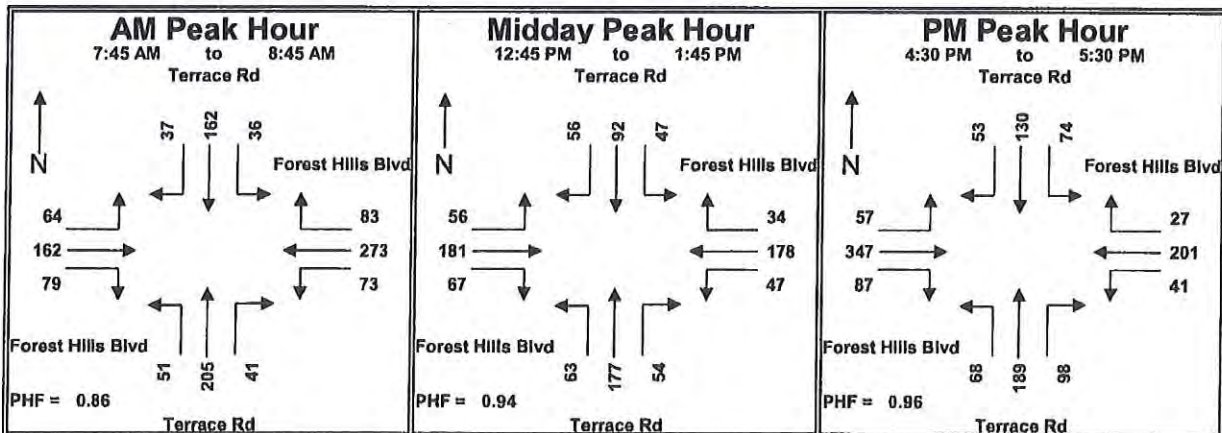


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 25, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 25, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 25, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Forest Hills Blvd Eastbound				Forest Hills Blvd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	500	1352	514	3	407	1125	396	2	4294	454	1749	576	5	436	1753	405	0	5373	9667
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	766	2072	786	5	624	1724	607	3	6580	696	2680	883	8	668	2686	621	0	8234	14814



Notes:

15-Minute Count Data Terrace Rd and Lee Blvd

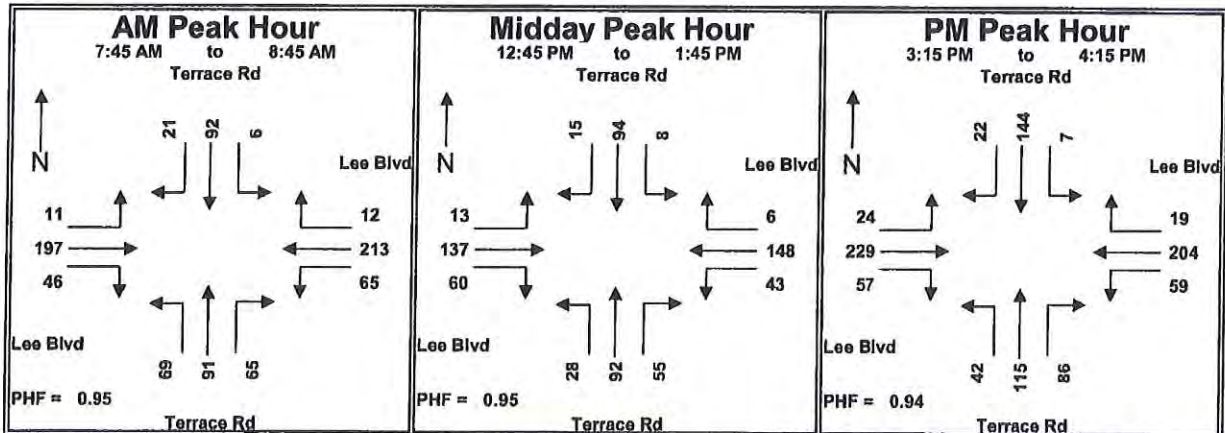


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.944	Wednesday	June 1, 2011	7:00 AM	10:00 AM	
0.944	Wednesday	June 1, 2011	11:00 AM	2:00 PM	
0.944	Wednesday	June 1, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Lee Blvd Eastbound			Lee Blvd Westbound			Total East	Total All Dir.		
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU			RT	Truck
Totals	336	858	496	6	75	955	150	5	2870	127	1429	423	1	406	1362	106	0	3853	6723
ADT	541	1382	799	10	121	1538	242	8	4623	205	2302	681	2	654	2194	171	0	6207	10830
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%			Percent Trucks = 0%						



Notes:

15-Minute Count Data

Terrace Rd and Rosemont Rd and Marloes Ave

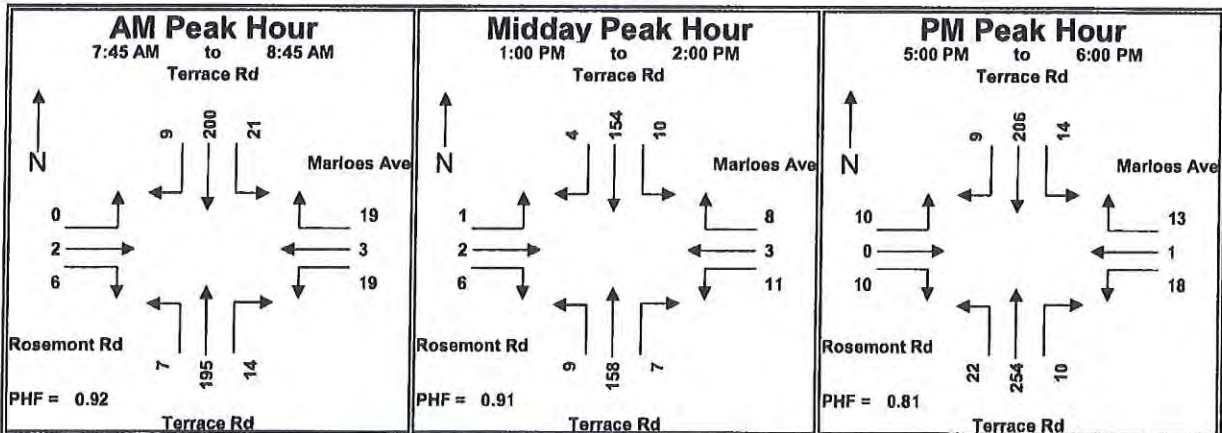


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.894	Thursday	May 26, 2011	7:00 AM	10:00 AM	
0.894	Thursday	May 26, 2011	11:00 AM	2:00 PM	
0.894	Thursday	May 26, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Rosemont Rd Eastbound				Marloes Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	73	1652	95	19	86	1443	63	13	3412	42	13	50	0	111	18	90	3	324	3736
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 1%					
ADT	111	2512	144	29	131	2194	96	20	5188	64	20	76	0	169	27	137	5	493	5680
7:00 AM	2	20	3	0	2	31	0	0	58	0	1	0	0	0	0	0	0	1	59
7:15 AM	0	28	0	0	0	31	0	0	59	2	0	1	0	1	0	1	0	5	64
7:30 AM	0	18	1	1	3	34	1	0	57	0	1	1	0	2	0	2	0	6	63
7:45 AM	0	52	2	1	5	38	3	0	100	0	0	2	0	5	0	4	0	11	111
8:00 AM	3	50	3	2	5	50	2	0	113	0	1	1	0	3	1	7	0	13	126
8:15 AM	2	51	5	0	8	53	3	1	122	0	1	3	0	6	0	3	0	13	135
8:30 AM	2	42	4	0	3	59	1	0	111	0	0	0	0	5	2	5	0	12	123
8:45 AM	2	34	0	1	3	42	4	0	85	1	0	1	0	5	1	3	0	11	96
9:00 AM	1	29	3	0	1	30	2	0	66	0	2	1	0	2	0	1	0	6	72
9:15 AM	5	28	0	1	0	30	1	0	64	0	0	0	0	4	0	2	0	6	70
9:30 AM	1	22	3	0	1	36	1	0	64	0	0	1	0	2	0	0	0	3	67
9:45 AM	0	33	1	0	0	41	0	1	75	1	0	2	0	5	1	2	0	11	86
11:00 AM	1	44	2	1	2	26	2	0	77	2	0	2	0	0	1	0	0	5	82
11:15 AM	1	34	3	0	1	35	0	2	74	1	0	4	0	2	1	2	0	10	84
11:30 AM	0	38	4	2	4	30	1	0	77	3	0	1	0	0	1	5	0	10	87
11:45 AM	3	29	2	0	1	35	2	1	72	0	0	2	0	4	1	2	1	9	81
12:00 PM	3	42	3	1	4	26	1	0	79	3	0	1	0	4	0	3	1	11	90
12:15 PM	2	45	2	2	4	22	2	0	77	3	0	0	0	5	0	3	1	11	88
12:30 PM	2	35	3	0	4	38	1	0	83	2	1	2	0	3	0	3	0	11	94
12:45 PM	0	44	3	0	1	37	0	0	85	1	0	1	0	0	0	2	0	4	89
1:00 PM	2	41	2	0	4	23	0	1	72	0	1	0	0	4	0	1	0	6	78
1:15 PM	2	40	3	0	2	42	0	1	89	1	0	3	0	1	0	1	0	6	95
1:30 PM	1	43	1	0	1	47	1	1	94	0	1	1	0	4	1	2	0	9	103
1:45 PM	4	34	1	0	3	42	3	1	87	0	0	2	0	2	2	4	0	10	97
3:00 PM	0	55	6	1	0	34	3	2	98	2	1	0	0	3	1	3	0	10	108
3:15 PM	5	65	4	1	2	30	4	0	110	3	1	1	0	4	2	5	0	16	126
3:30 PM	0	74	5	0	1	63	2	1	145	2	1	1	0	3	0	2	0	9	154
3:45 PM	1	58	4	0	0	32	4	0	99	0	0	2	0	2	0	1	0	5	104
4:00 PM	2	68	2	0	1	64	3	1	140	0	0	0	0	4	1	1	0	6	146
4:15 PM	1	71	4	0	3	58	0	0	137	1	1	2	0	4	0	3	0	11	148
4:30 PM	1	79	4	2	2	43	0	0	129	2	0	0	0	2	1	1	0	6	135
4:45 PM	2	52	2	0	1	35	7	0	99	2	0	2	0	2	0	3	0	9	108
5:00 PM	2	56	1	0	2	41	4	0	106	0	0	2	0	5	0	3	0	10	116
5:15 PM	3	56	1	2	3	42	0	0	105	3	0	1	0	2	1	4	0	11	116
5:30 PM	14	71	6	0	7	66	0	0	164	4	0	3	0	3	0	1	0	11	175
5:45 PM	3	71	2	1	2	57	5	0	140	3	0	4	0	8	0	5	0	20	160



Notes:

15-Minute Count Data

Taylor Rd and Terrace Rd

E. Cleveland, Ohio

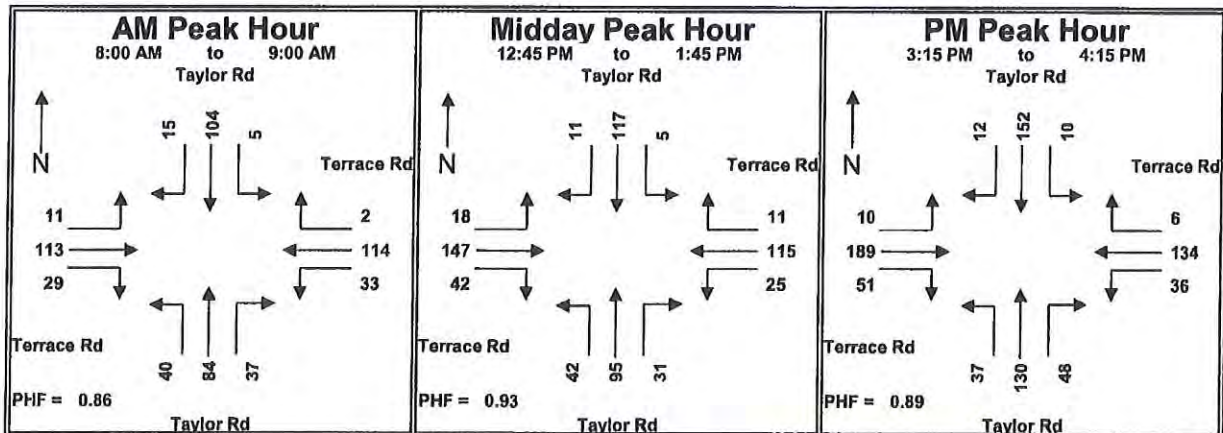


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 21, 2011	7:00 AM	10:00 AM	Cloudy
0.921	Tuesday	June 21, 2011	11:00 AM	2:00 PM	Cloudy
0.921	Tuesday	June 21, 2011	3:00 PM	6:00 PM	Cloudy

ADT Factor: 1.70
Intersection ID: 1

Start Time	Taylor Rd Northbound				Taylor Rd Southbound				Total North South	Terrace Rd Eastbound				Terrace Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	333	876	306	5	56	988	104	6	2663	111	1274	305	5	275	1012	59	8	3036	5699
ADT	522	1372	479	8	88	1548	163	9	4171	174	1996	478	8	431	1585	92	13	4755	8926
	Percent Trucks = 0%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 1%					



Notes:

15-Minute Count Data

Wemple Rd and Coit Ave and Woodworth Rd

E. Cleveland, Ohio

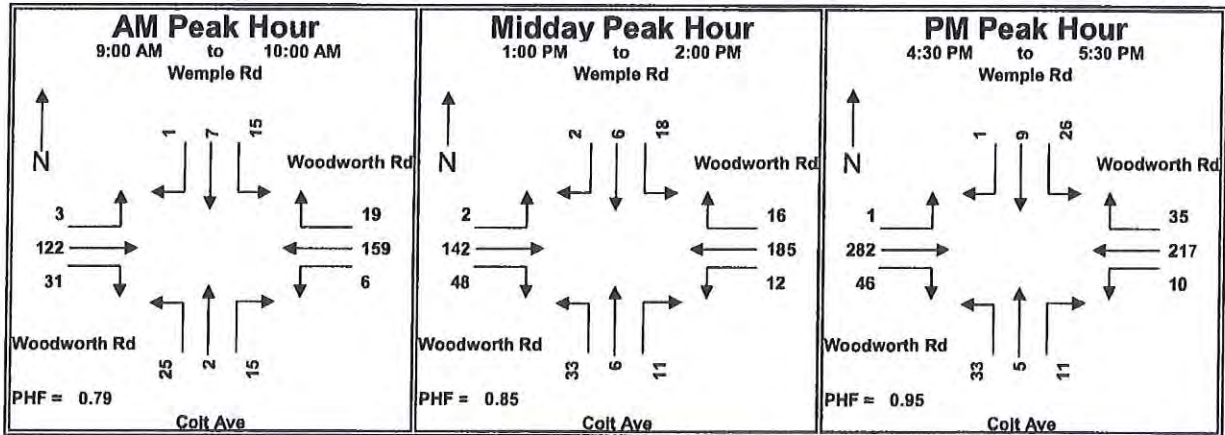


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.944	Wednesday	June 8, 2011	7:00 AM	10:00 AM	
0.944	Wednesday	June 8, 2011	11:00 AM	2:00 PM	
0.944	Wednesday	June 8, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Coit Ave Northbound				Wemple Rd Southbound				Total North South	Woodworth Rd Eastbound				Woodworth Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	251	59	92	0	133	67	11	0	613	13	1464	344	4	86	1512	173	3	3592	4205
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	404	95	148	0	214	108	18	0	987	21	2358	554	6	139	2436	279	5	5786	6774



Notes: East intersection

15-Minute Count Data

Coit Ave and 146th St and Woodworth Rd

E. Cleveland, Ohio

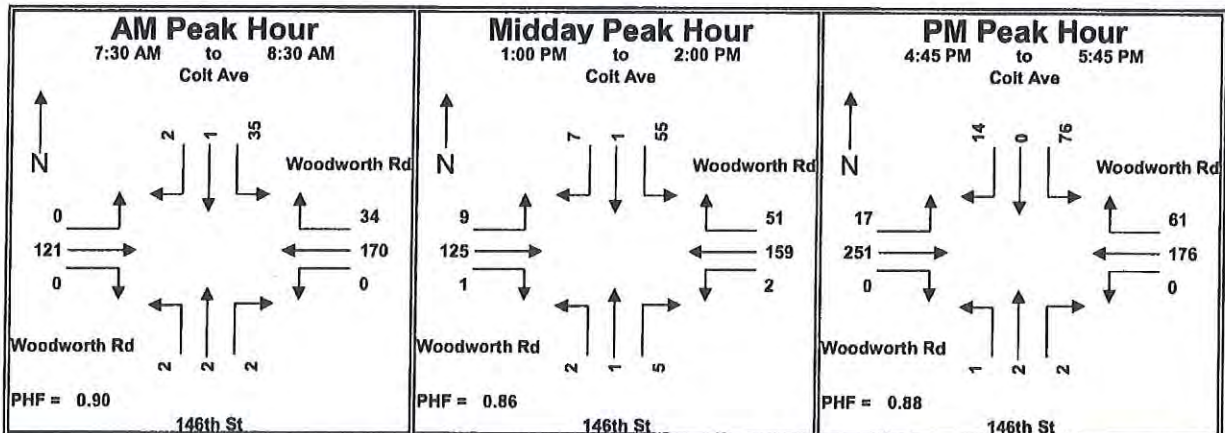


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.944	Wednesday	June 8, 2011	7:00 AM	10:00 AM	
0.944	Wednesday	June 8, 2011	11:00 AM	2:00 PM	
0.944	Wednesday	June 8, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	146th St Northbound				Coit Ave Southbound				Total North South	Woodworth Rd Eastbound				Woodworth Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	14	22	26	0	436	3	80	0	581	68	1409	4	4	7	1377	398	4	3263	3844
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	23	35	42	0	702	5	129	0	936	110	2270	6	6	11	2218	641	6	5256	6192



Notes: West intersection

Appendix B
Signal Warrant Data

15-Minute Count Data

Coit Ave and Elm Ave and 152nd St

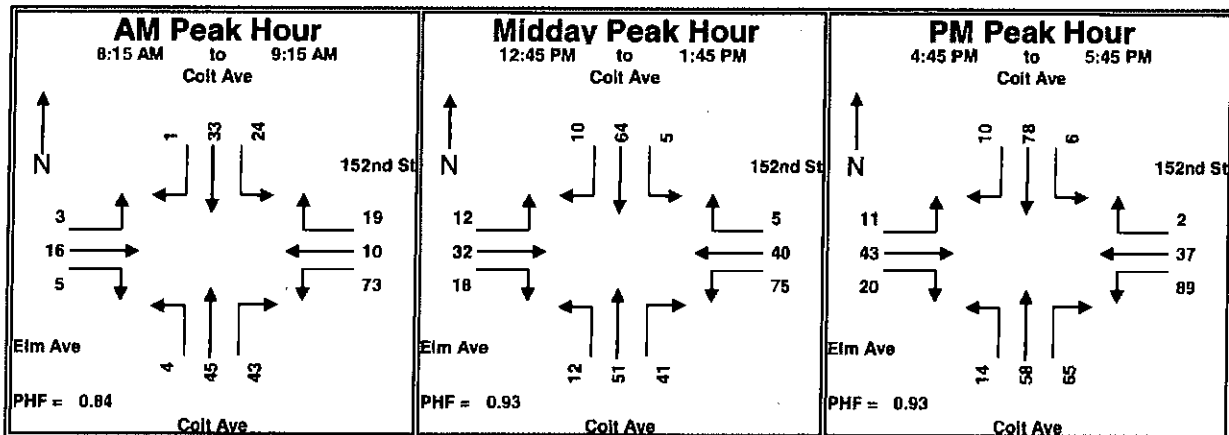


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.923	Thursday	June 9, 2011	7:00 AM	10:00 AM	
0.923	Thursday	June 9, 2011	11:00 AM	2:00 PM	
0.923	Thursday	June 9, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Coit Ave Northbound				Coit Ave Southbound				Total North South	Elm Ave Eastbound				152nd St Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	82	417	459	9	88	455	55	3	1556	56	247	80	2	631	208	62	7	1284	2840
	Percent Trucks = 1%									Percent Trucks = 1%				Percent Trucks = 1%					
ADT	129	657	723	14	139	717	87	5	2451	88	389	126	3	994	328	98	11	2022	4473



Notes:

Coit/Elm/E. 152
 Bus Counts
 June 9, 2011

File Name : 2304-06-09-20
 Site Code : 00006911
 Start Date : 06/09/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
07:15 AM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
07:30 AM	0	1	0	0	0	0	2	0	1	0	0	0	0	0	0	0	
07:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Total	0	1	0	0	0	0	3	0	4	0	0	0	0	0	0	0	
08:00 AM	0	1	0	0	0	0	2	0	1	0	0	0	0	0	0	0	
08:15 AM	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	
Total	0	1	0	0	0	0	4	0	2	1	0	0	0	0	1	0	
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
Total	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
03:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
03:45 PM	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	
04:00 PM	1	0	0	0	0	0	1	0	2	1	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	
Total	1	0	0	0	0	0	4	0	3	1	0	0	0	0	0	0	

Coit/Elm/E. 152
 Bus Counts
 June 9, 2011

File Name : 2304-06-09-20
 Site Code : 00006911
 Start Date : 06/09/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
05:00 PM	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
05:30 PM	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	
Grand Total	1	3	0	0	0	0	19	0	14	2	0	0	1	0	1	0	0	4
Approch %	25.0	75.0	0.0	0.0	0.0	0.0	100.0	0.0	87.5	12.5	0.0	0.0	50.0	0.0	50.0	0.0	0.0	
Total %	2.4	7.3	0.0	0.0	0.0	0.0	46.3	0.0	34.1	4.9	0.0	0.0	2.4	0.0	2.4	0.0	0.0	

SIGNAL WARRANT



INTERSECTION: Carl Ave and Elm Ave and 152nd St
 LOCATED IN CITY/VILLAGE/RURAL: Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION SECT: _____
 CALC. BY: _____ CKD BY: _____

ADDITIONAL ITEMS ATTACHED

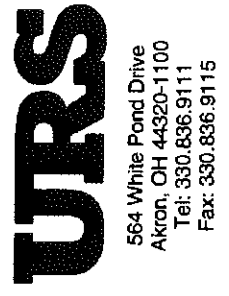
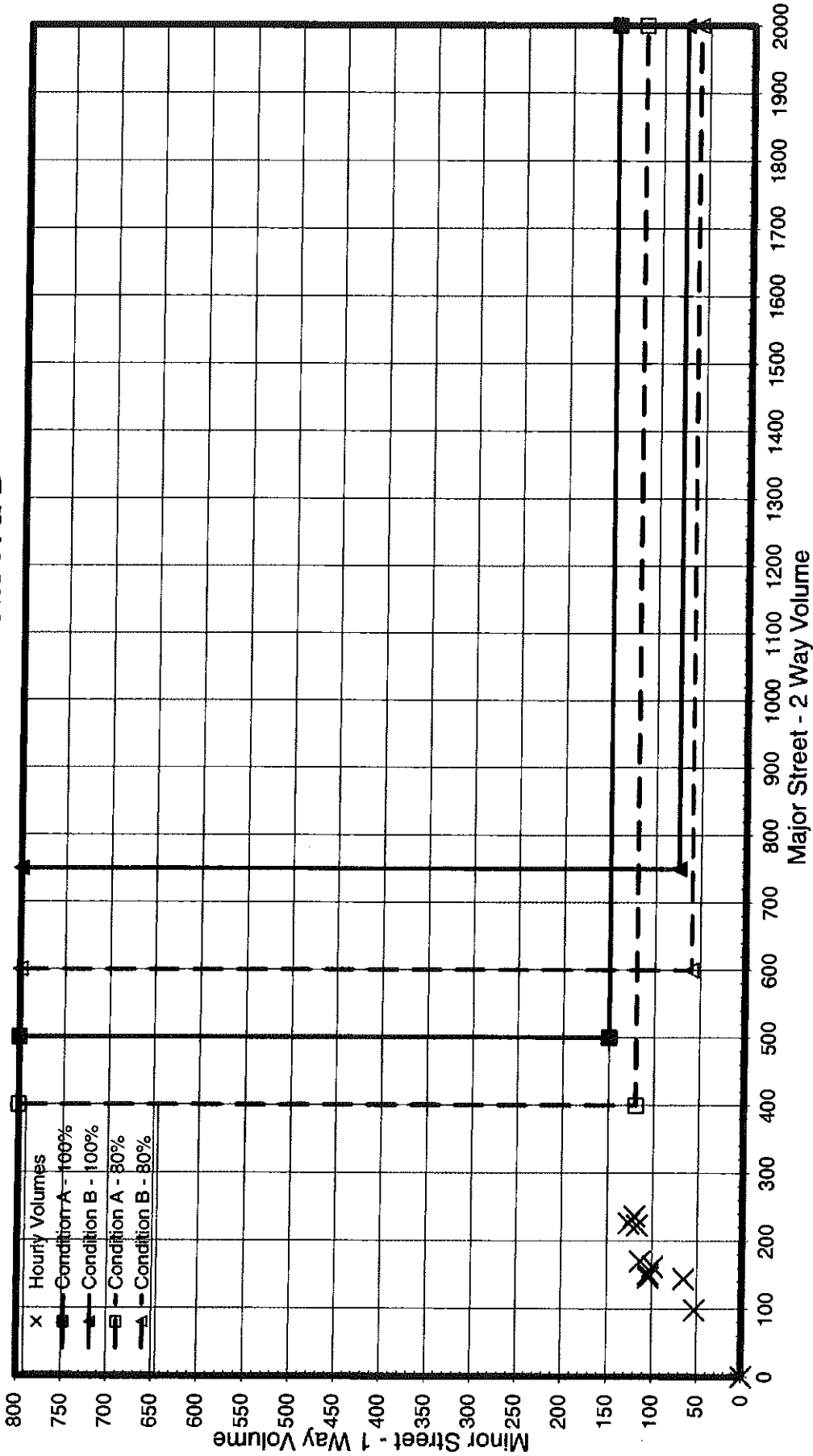
- SPEED DATA
- DELAY ANALYSIS
- TIME/SPACE DIAGRAM
- GROUND PHOTOGRAPHS
- AERIAL PHOTOGRAPHS
- DOCUMENTATION/EXPLANATION

OTHER (DESCRIBE): _____
 WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____
 WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____ NO
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO
 WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____ TWO-WAY
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ NO
 WARRANT #7 (CRASH EXPERIENCE)
 Adequate that of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO
 WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES				CONDITION A						CONDITION B						WARRANT		
	MAJOR ST		MINOR ST		100%		80%		100%		80%		100%		80%		#2	#3	
	2-WAY	1-WAY	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	FOUR HOUR	PEAK HOUR	
NORM 1	X	X	X	X	500	150	400	120	750	75	600	60							
NORM 2+					600	200	480	160	900	100	720	80							
70% 1					350	105	280	84	525	53	420	42							
70% 2+					420	140	336	112	630	70	504	56							
MID-1AM																			
1AM-2AM																			
2AM-3AM																			
3AM-4AM																			
4AM-5AM																			
5AM-6AM																			
6AM-7AM																			
7AM-8AM																			
8AM-9AM																			
9AM-10AM																			
10AM-11AM																			
11AM-NOON																			
NOON-1PM																			
1PM-2PM																			
2PM-3PM																			
3PM-4PM																			
4PM-5PM																			
5PM-6PM																			
6PM-7PM																			
7PM-8PM																			
8PM-9PM																			
9PM-10PM																			
10PM-11PM																			
11PM-MID																			
HOURS MET					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WARRANT SATISFIED?					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

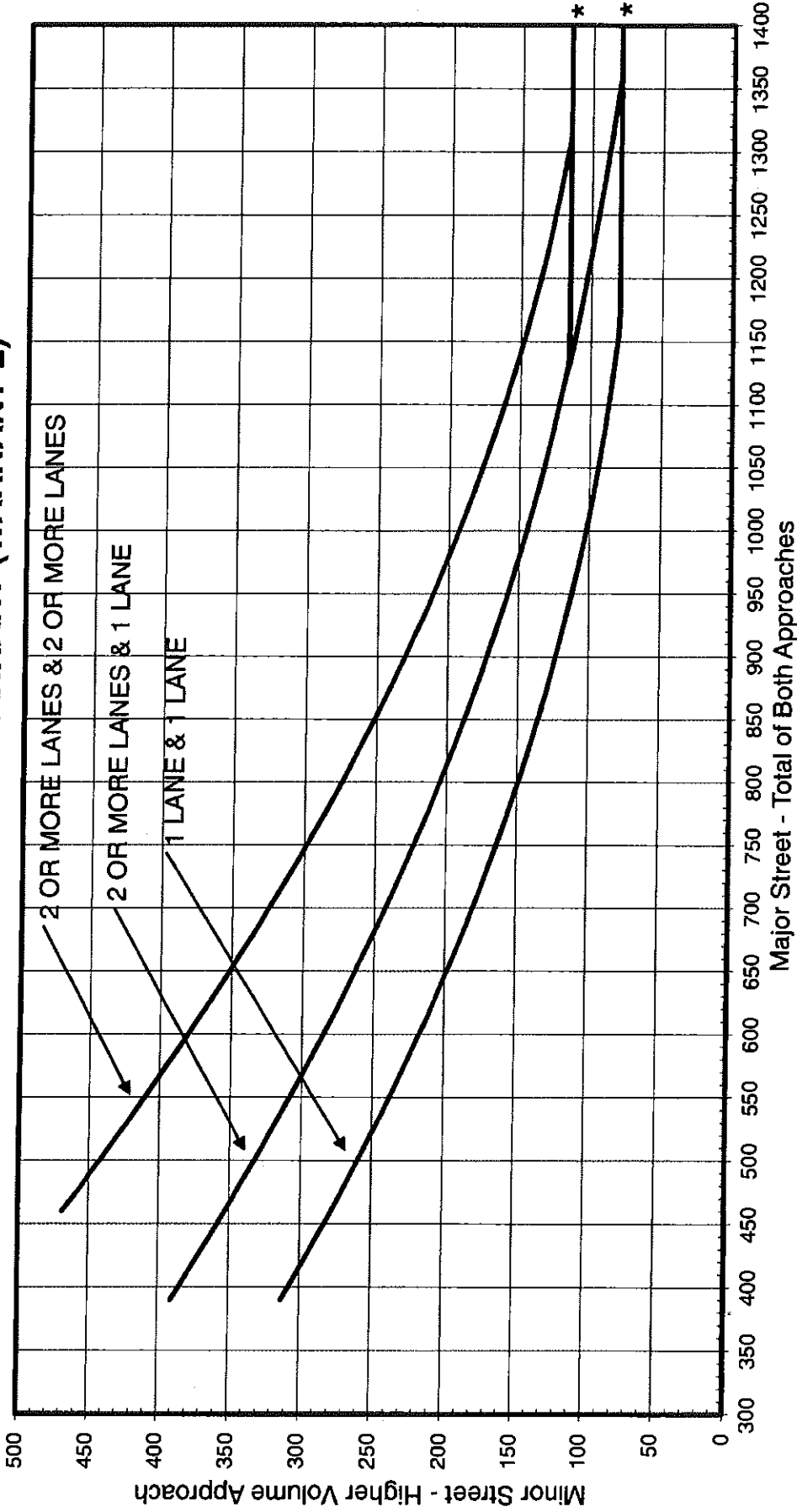
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 9, 2011	7:00 AM	10:00 AM	
Thursday	June 9, 2011	11:00 AM	2:00 PM	
Thursday	June 9, 2011	3:00 PM	6:00 PM	

Major Road = Cort Ave		Lanes
Minor Road = Elm Ave and 152nd St		1
Road Location = Urban		
Warrant Met?		
Condition A (100%) =	0 Hours Meet	No
Condition B (100%) =	0 Hours Meet	No
Condition A (80%) =	0 Hours Meet	No
Condition B (80%) =	0 Hours Meet	No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Coit Ave	Lanes	1
Minor Road =	Elm Ave and 152nd St		1
Road Location =	Urban		

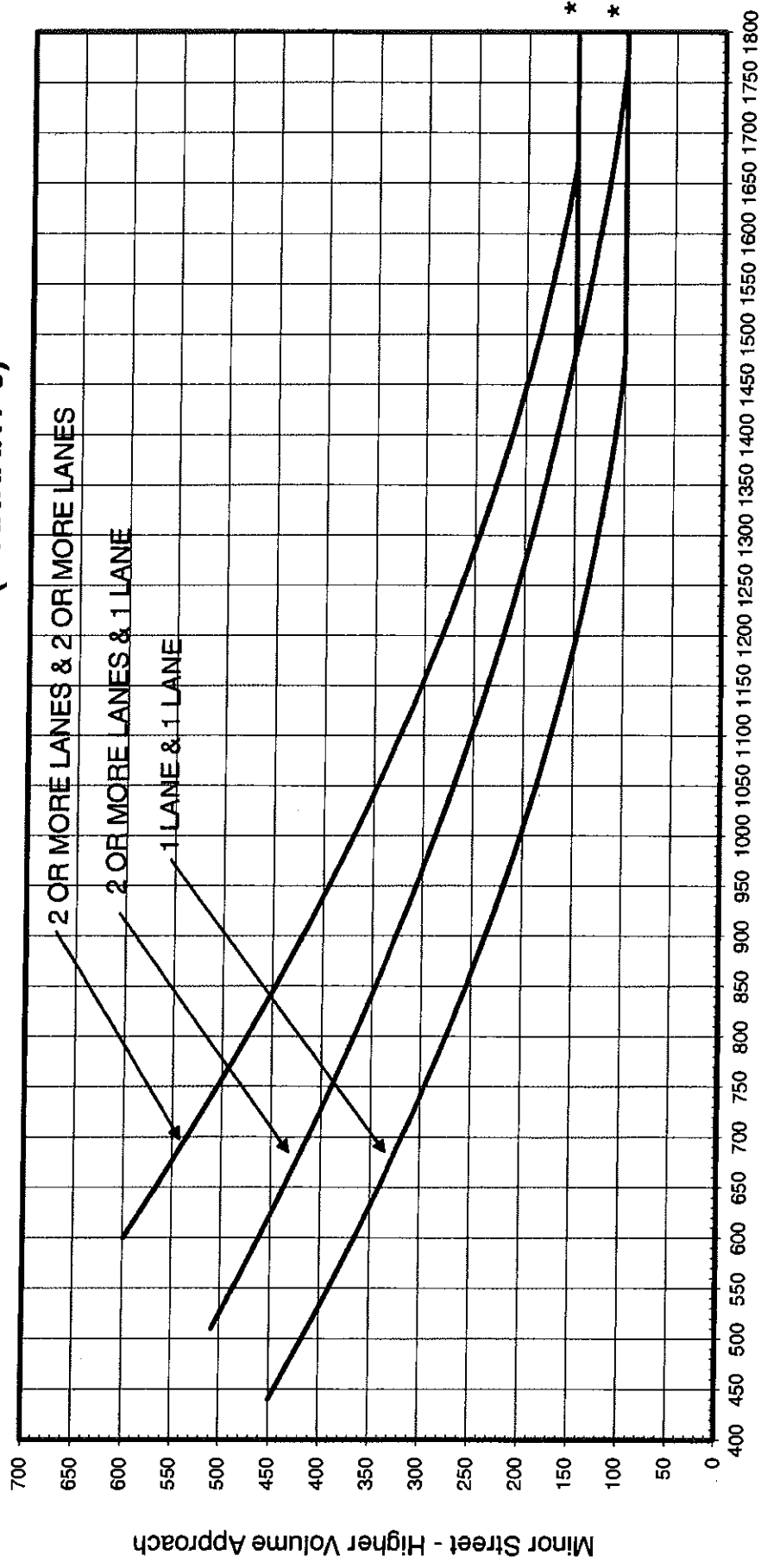
Warrant 2 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 9, 2011	7:00 AM	10:00 AM	
Thursday	June 9, 2011	11:00 AM	2:00 PM	
Thursday	June 9, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Thursday	June 9, 2011	7:00 AM	10:00 AM	
Thursday	June 9, 2011	11:00 AM	2:00 PM	
Thursday	June 9, 2011	3:00 PM	6:00 PM	

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 Akron, OH 44320-1100
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15-Minute Count Data

Euclid Ave and Holyoke Ave and Belmore Ave

E. Cleveland, Ohio

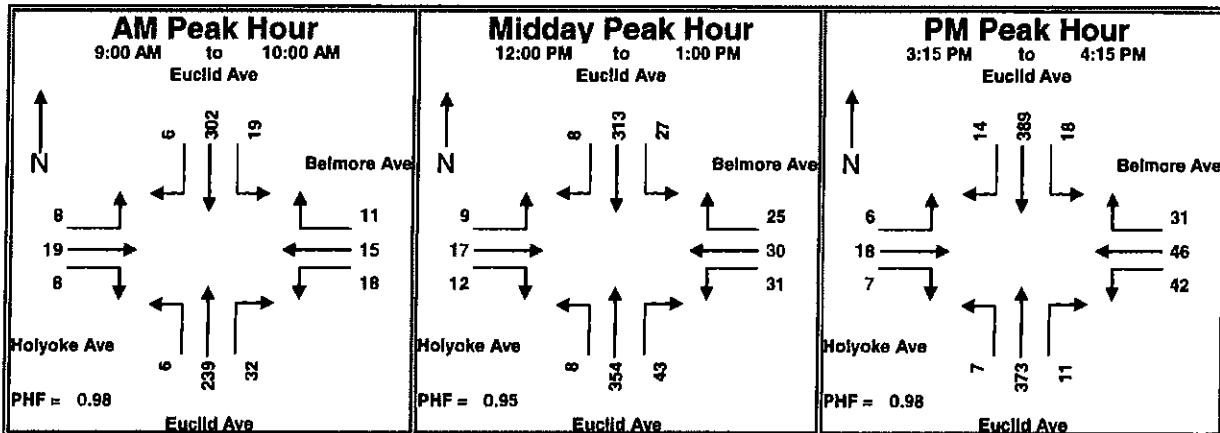


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Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 9, 2011	7:00 AM	10:00 AM	Cloudy
0.886	Thursday	June 9, 2011	11:00 AM	2:00 PM	Hot
0.886	Thursday	June 9, 2011	3:00 PM	6:00 PM	Hot

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Holyoke Ave Eastbound				Belmore Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totale	62	2735	186	26	181	2809	94	32	6067	67	163	71	0	228	246	167	5	942	7009
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 1%					
ADT	93	4121	280	39	273	4293	142	48	9142	101	246	107	0	344	371	252	8	1419	10561
7:00 AM	0	26	9	0	6	49	1	2	91	0	9	0	0	2	3	2	0	16	107
7:15 AM	1	36	3	1	5	54	0	0	99	1	2	0	0	3	3	0	0	9	108
7:30 AM	1	39	7	1	9	63	3	0	122	1	4	0	0	3	2	2	0	12	134
7:45 AM	0	46	5	0	8	79	3	2	141	0	2	0	0	6	6	4	0	18	159
8:00 AM	1	42	8	2	6	70	3	2	130	5	1	1	0	8	3	2	0	20	150
8:15 AM	2	59	3	4	2	72	3	2	141	3	4	2	0	4	4	2	2	19	160
8:30 AM	1	65	5	3	3	75	4	3	153	2	7	3	0	4	3	5	0	24	177
8:45 AM	0	56	7	0	1	54	2	0	120	3	3	1	0	3	4	1	0	15	135
9:00 AM	1	52	8	1	5	83	1	0	150	3	3	1	0	3	1	4	0	15	165
9:15 AM	2	58	6	0	4	82	0	2	152	1	8	0	0	4	4	6	0	23	175
9:30 AM	2	70	8	1	4	64	1	0	149	3	6	1	0	4	8	0	1	22	171
9:45 AM	1	59	10	1	6	73	4	1	153	1	2	6	0	7	2	1	0	19	172
11:00 AM	0	82	4	0	6	58	3	1	133	1	2	1	0	7	7	7	0	25	158
11:15 AM	0	80	5	0	6	62	0	2	153	2	3	3	0	6	4	6	0	24	177
11:30 AM	4	82	8	2	2	75	1	1	172	3	2	5	0	12	7	5	0	34	206
11:45 AM	2	77	4	1	7	87	1	1	178	0	1	2	0	7	6	2	1	18	186
12:00 PM	1	84	15	1	7	72	4	0	183	2	5	2	0	11	9	8	1	35	218
12:15 PM	3	79	9	2	8	75	0	3	174	2	4	2	0	6	7	5	0	28	200
12:30 PM	2	86	6	1	2	88	1	0	193	2	5	5	0	8	8	10	0	38	231
12:45 PM	2	95	13	1	10	80	3	0	203	3	3	3	0	6	6	4	0	25	228
1:00 PM	1	90	5	0	6	69	3	2	174	1	6	1	0	7	4	3	0	22	198
1:15 PM	0	82	2	1	7	76	3	2	170	3	6	4	0	6	8	7	0	34	204
1:30 PM	1	81	9	0	7	86	3	1	197	0	0	1	0	1	7	7	0	16	213
1:45 PM	3	81	7	0	5	79	2	1	177	2	7	1	0	6	9	7	0	32	209
3:00 PM	1	72	0	0	2	104	0	2	179	2	10	3	0	12	16	6	0	49	228
3:15 PM	2	90	2	0	6	95	2	0	197	1	3	2	0	14	13	9	0	42	239
3:30 PM	1	83	0	0	4	98	3	1	189	2	6	0	0	19	17	7	0	45	234
3:45 PM	2	99	5	0	6	98	4	0	214	3	3	2	0	10	5	7	0	30	244
4:00 PM	2	101	4	0	2	98	5	1	212	0	6	3	0	5	11	8	0	33	245
4:15 PM	5	91	0	0	0	87	5	0	188	0	4	1	0	7	8	9	0	29	217
4:30 PM	2	101	0	0	7	86	2	0	198	4	7	3	0	9	6	5	0	34	232
4:45 PM	5	107	1	1	6	88	5	0	212	3	6	4	0	4	7	1	0	25	237
5:00 PM	2	106	2	2	5	80	4	0	199	1	5	2	0	3	9	6	0	26	225
5:15 PM	6	88	2	0	5	74	7	0	182	6	9	2	0	6	12	4	0	39	221
5:30 PM	0	112	3	0	4	87	2	0	208	0	7	3	0	9	12	5	0	38	244
5:45 PM	3	88	1	0	2	81	6	0	181	1	2	1	0	2	5	2	0	13	194



Notes:



SIGNAL WARRANT

INTERSECTION: Euclid Ave and Holyoke Ave and Belmont Ave
 LOCATION IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N:2 S:2 E:1 W:1
 PRESENTLY SIGNALIZED? Yes _____ DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED

- SKETCH OR DRAWING
- VEHICULAR VOLUME COUNT
- TRAFFIC PROJECTION
- ACCIDENT DATA
- PEDESTRIAN COUNT
- GAP ANALYSIS
- SPEED DATA
- DELAY ANALYSIS
- TIME/SPACE DIAGRAM
- GROUND PHOTOGRAPHS
- AERIAL PHOTOGRAPHS
- DOCUMENTATION/EXPLANATION

OTHER (DESCRIBE):

COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES				WARRANT #1						WARRANT #2		WARRANT #3	
		MAJOR ST		MINOR ST		100%		80%		100%		80%		#2 FOUR HOUR	#3 PEAK HOUR
		2-WAY	1-WAY	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR		
NORM	1	X				500	150	400	120	750	75	600	60		
	2+	X				600	200	480	160	900	100	720	80		
70%	1					350	105	280	84	525	53	420	42		
	2+					420	140	336	112	630	70	504	56		
MID-1AM															
1AM-2AM															
2AM-3AM															
3AM-4AM															
4AM-5AM															
5AM-6AM															
6AM-7AM															
7AM-8AM	453		19	36											
8AM-9AM	544		35	43				X							
9AM-10AM	604		35	44		X		X							
10AM-11AM	0		0	0											
11AM-NOON	636		25	76		X		X		X		X			
NOON-1PM	753		38	86		X		X		X		X			
1PM-2PM	718		32	72		X		X		X		X			
2PM-3PM	2		0	0											
3PM-4PM	779		37	129		X		X	X			X			
4PM-5PM	810		41	80		X		X	X			X			
5PM-6PM	770		39	75		X		X		X		X			
6PM-7PM	0		0	0											
7PM-8PM	0		0	0											
8PM-9PM	0		0	0											
9PM-10PM	0		0	0											
10PM-11PM	0		0	0											
11PM-MID	0		0	0											
HOURS MET						0	1	NO	NO	0	0	4	0	0	NO

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level:..... NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians.....
 Hours with 190 or more pedestrians.....
 Pedestrian crossing time (t):.....
 Number of gaps greater than (t) during period:.....
 Warrant Satisfied?.....

WARRANT #5 (SCHOOL CROSSING)
 On approved school routes?..... NO
 Gap analysis made during period from..... to
 Number of vehicles during analysis period:.....
 Pedestrian crossing time (t):.....
 Number of gaps greater than (t) during period:.....
 Approximate vehicular speed:.....
 Number of children crossing during period:.....
 Warrant Satisfied?..... NO

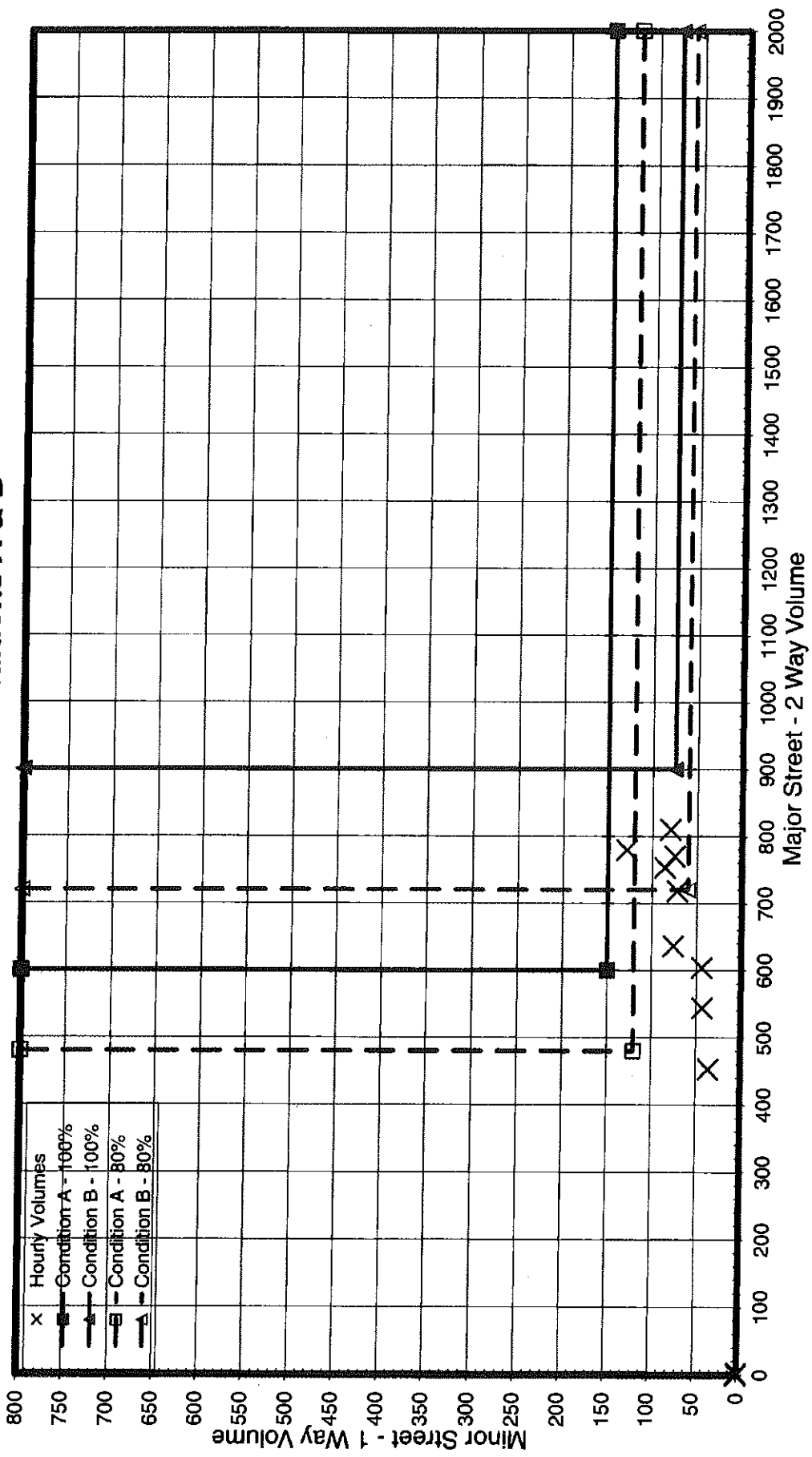
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is:..... TWO-WAY
 Distance to nearest signal in each direction on major street:.....
 Time space diagram (attached) shows that this location can be implemented into a system:.....
 Warrant Satisfied?..... NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures:.....
 Number of accidents per year of a type which could be prevented by signalization:.....
 80% of warrant #1 or #2 satisfied:.....
 Will signalization disrupt progressive movement?.....
 Warrant Satisfied?..... NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes:.....
 At least 1000 V.P.H. during weekday peak hour:.....
 5-Year projection meets Warrant 1, 2, or 3:.....
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday:.....
 Meets characteristic requirements?.....
 Warrant Satisfied?..... NO

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

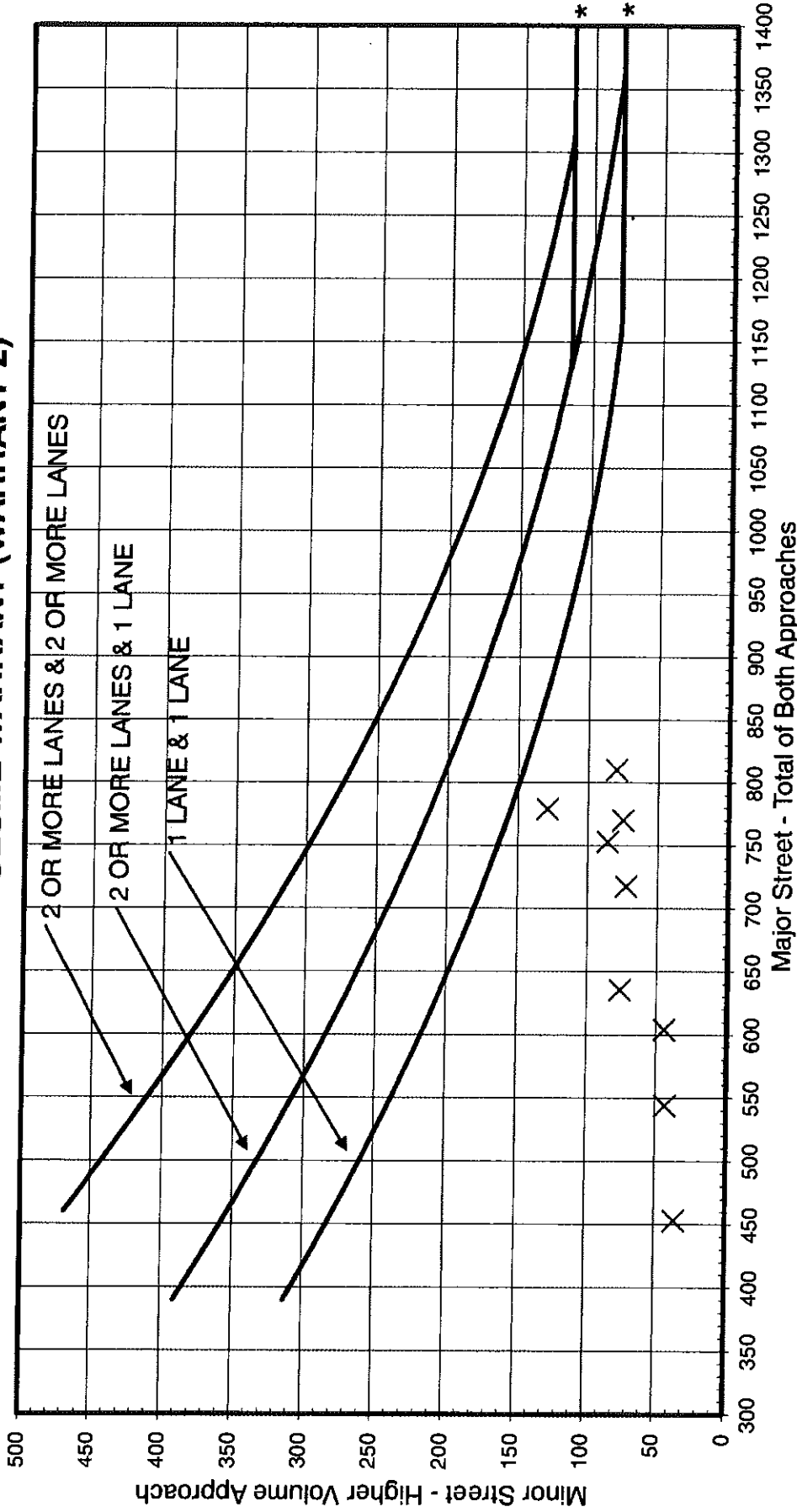


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 9, 2011	7:00 AM	10:00 AM	Cloudy
Thursday	June 9, 2011	11:00 AM	2:00 PM	Hot
Thursday	June 9, 2011	3:00 PM	6:00 PM	Hot

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Holyoke Ave and Belmont Ave		1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Meet		No
Condition B (100%) =	0 Hours Meet		No
Condition A (80%) =	1 Hours Meet		No
Condition B (80%) =	4 Hours Meet		No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

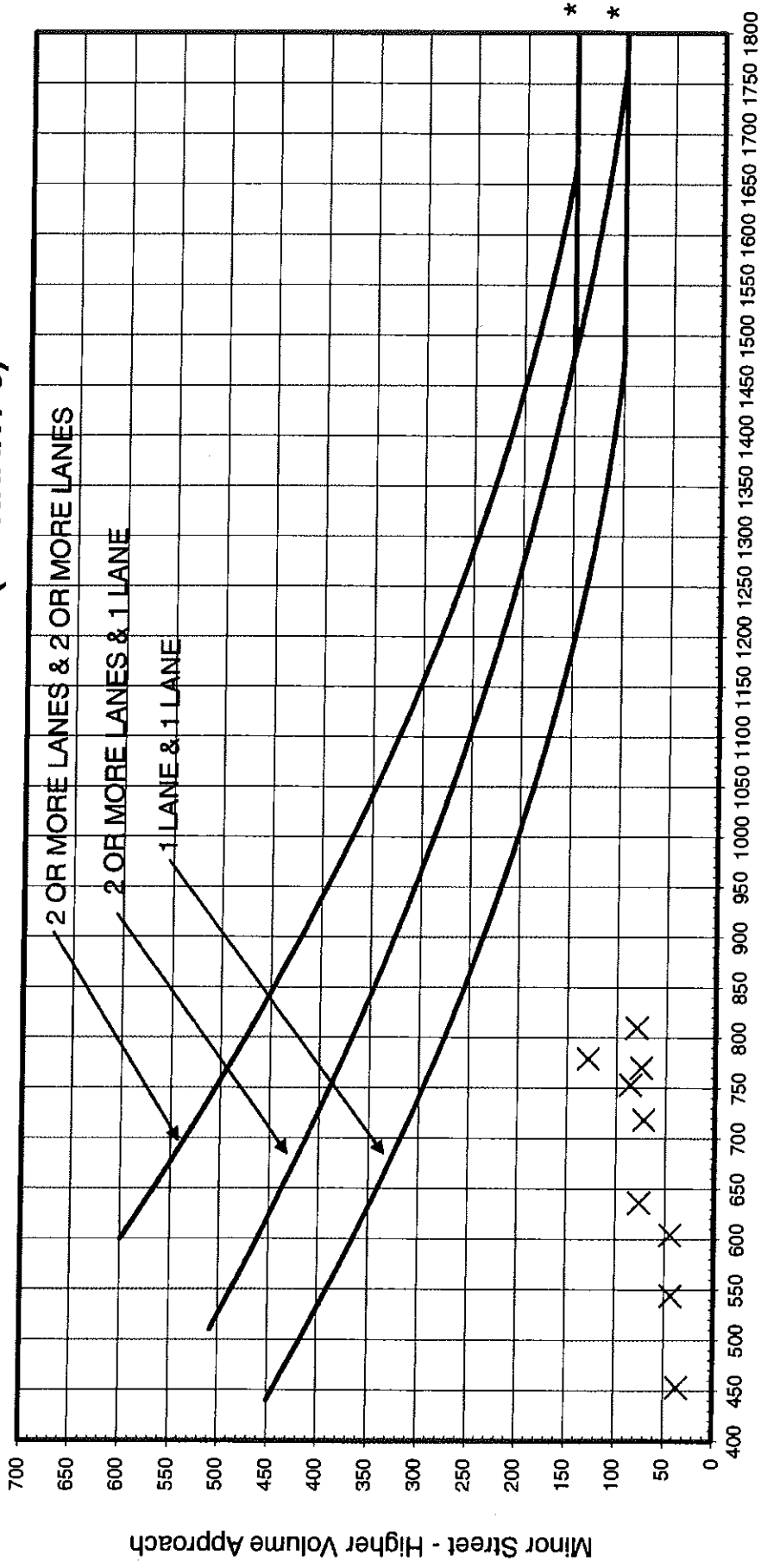


Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 9, 2011	7:00 AM	10:00 AM	Cloudy
Thursday	June 9, 2011	11:00 AM	2:00 PM	Hot
Thursday	June 9, 2011	3:00 PM	6:00 PM	Hot

Major Road = Euclid Ave Lanes 2
 Minor Road = Holyoke Ave and Belmont Av Lanes 1
 Road Location = Urban

Warrant 2 (Urban) = 0 Hours Meet Warrant Met? NO

PEAK HOUR VOLUME WARRANT (WARRANT 3)

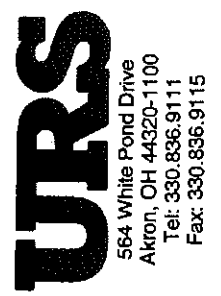


Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road =
 Road Location =
 Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Thursday	June 9, 2011	7:00 AM	10:00 AM	Cloudy
Thursday	June 9, 2011	11:00 AM	2:00 PM	Hot
Thursday	June 9, 2011	3:00 PM	6:00 PM	Hot



15-Minute Count Data

Euclid Ave and Collamer Ave and Burnette Ave

E. Cleveland, Ohio



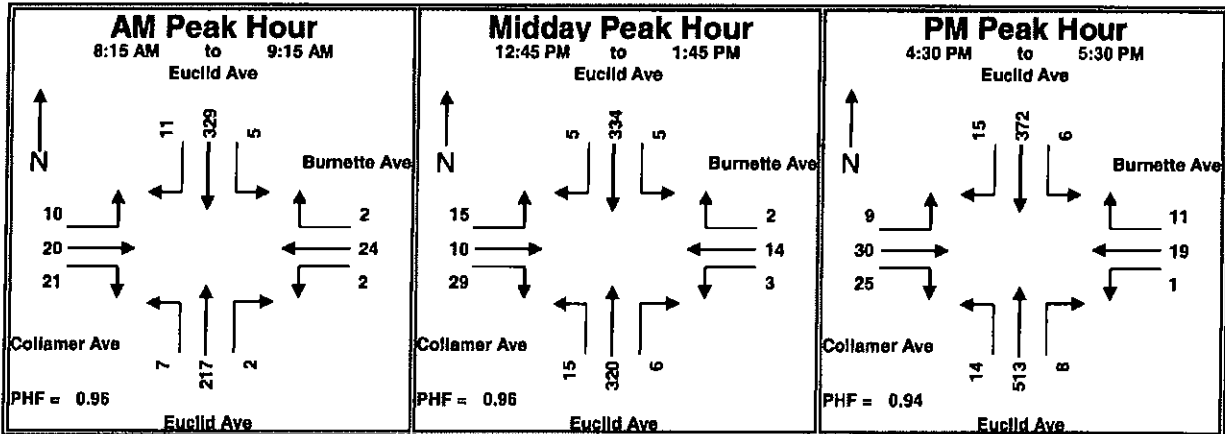
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 21, 2011	7:00 AM	10:00 AM	Warm
0.921	Tuesday	June 21, 2011	11:00 AM	2:00 PM	Sunny
0.921	Tuesday	June 21, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70

Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Collamer Ave Eastbound				Burnette Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	134	2800	46	23	43	2989	92	19	6104	96	166	179	4	19	174	43	0	677	6781
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 1%				Percent Trucks = 0%					
ADT	210	4386	72	36	67	4682	144	30	9561	150	260	280	6	30	273	67	0	1060	10621



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Collamer Ave and Burnette Ave
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 2 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes
 MAINTAINING AGENCY: _____

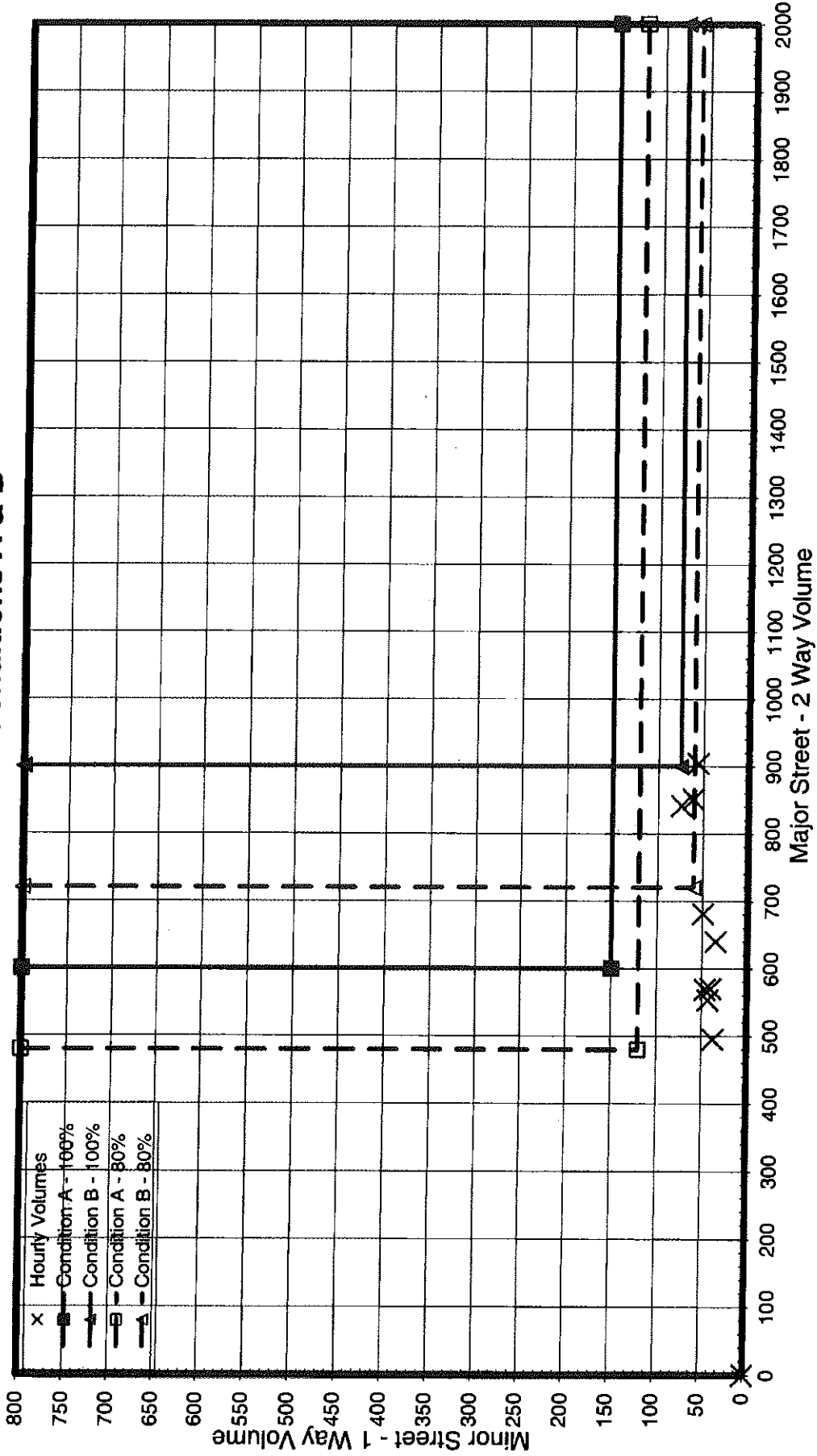
CO: Cuyahoga
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: **NO**
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____
 WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from: _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____
 WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____
 WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____
 WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES				CONDITION A				CONDITION B				WARRANT	
		MINOR ST		MAJOR ST		100%		80%		100%		80%		#2	#3
		2-WAY	1-WAY	1-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	FOUR HOUR	PEAK HOUR
NORM	2+	X		X		500	150	400	120	750	75	600	60		
	1					850	105	280	84	525	53	420	42		
	2+					420	140	336	112	630	70	504	56		
	MID-1AM	0	0	0	0										
	1AM-2AM	0	0	0	0										
	2AM-3AM	0	0	0	0										
	3AM-4AM	0	0	0	0										
	4AM-5AM	0	0	0	0										
	5AM-6AM	0	0	0	0										
	6AM-7AM	0	0	0	0										
	7AM-8AM	495	37	33				X							
	8AM-9AM	553	43	29				X							
	9AM-10AM	569	46	21				X							
	10AM-11AM	0	0	0											
	11AM-NOON	570	40	21				X							
	NOON-1PM	640	35	16				X							
	1PM-2PM	681	49	18				X							
	2PM-3PM	0	0	0											
	3PM-4PM	851	61	33				X							
	4PM-5PM	904	56	39				X							
	5PM-6PM	841	74	26				X							
	6PM-7PM	0	0	0											
	7PM-8PM	0	0	0											
	8PM-9PM	0	0	0											
	9PM-10PM	0	0	0											
	10PM-11PM	0	0	0											
	11PM-MID	0	0	0											
HOURS MET													0	0	
WARRANT SATISFIED?													NO	NO	
CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH													NO	NO	
ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.													NO	NO	

OTHER (DESCRIBE):
 ADDITIONAL ITEMS ATTACHED:
 SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

WARRANT 1 - Conditions A & B

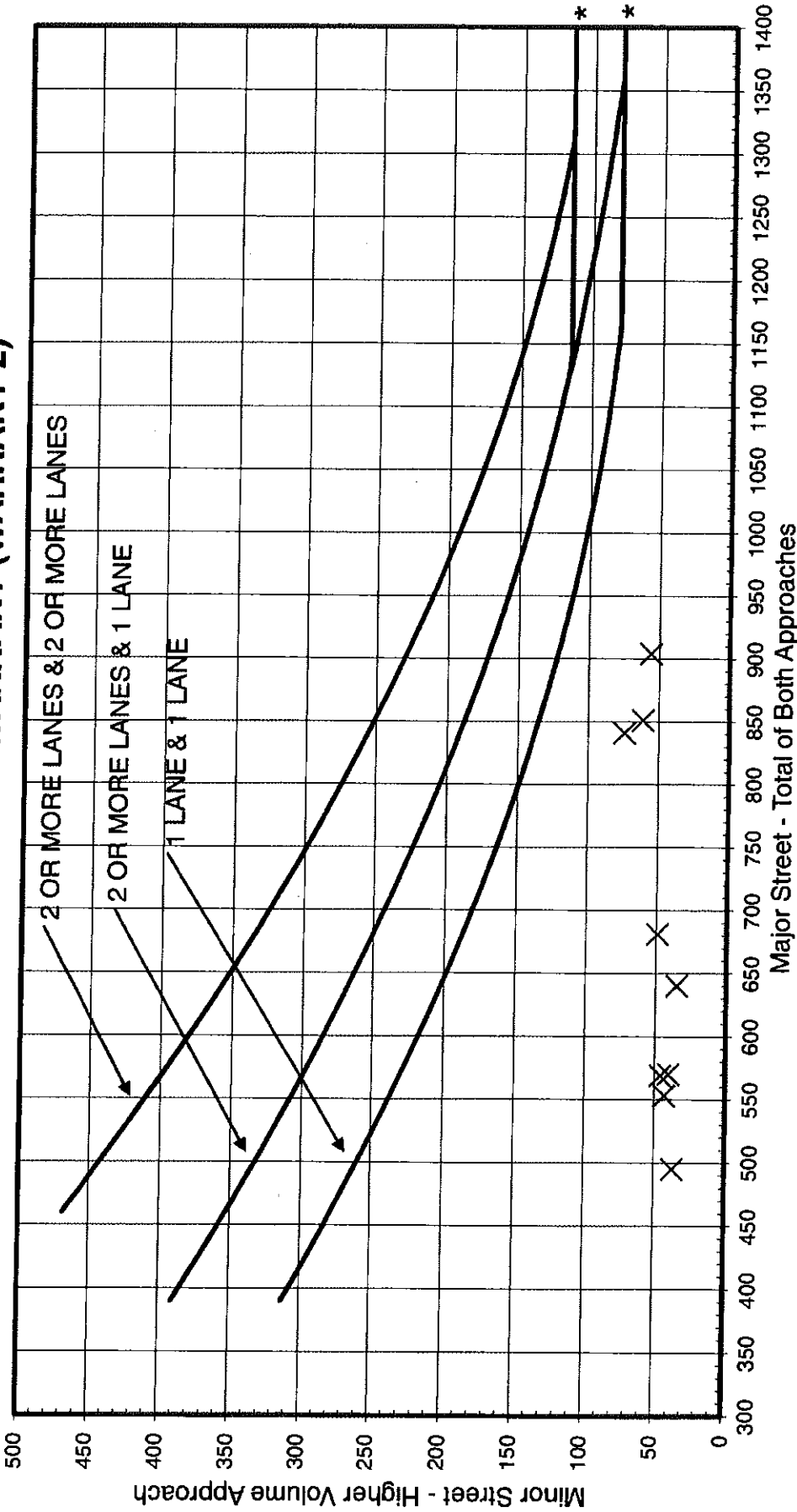


Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 21, 2011	7:00 AM	10:00 AM	Warm
Tuesday	June 21, 2011	11:00 AM	2:00 PM	Sunny
Tuesday	June 21, 2011	3:00 PM	6:00 PM	Sunny

Major Road = Euclid Ave	Lanes = 2
Minor Road = Collamer Ave and Burnette A	1
Road Location = Urban	

Condition	Warrant Met?
Condition A (100%) = 0 Hours Meet	No
Condition B (100%) = 0 Hours Meet	No
Condition A (80%) = 0 Hours Meet	No
Condition B (80%) = 2 Hours Meet	No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Euclid Ave
 Minor Road = Collamer Ave and Burnette A
 Road Location = Urban

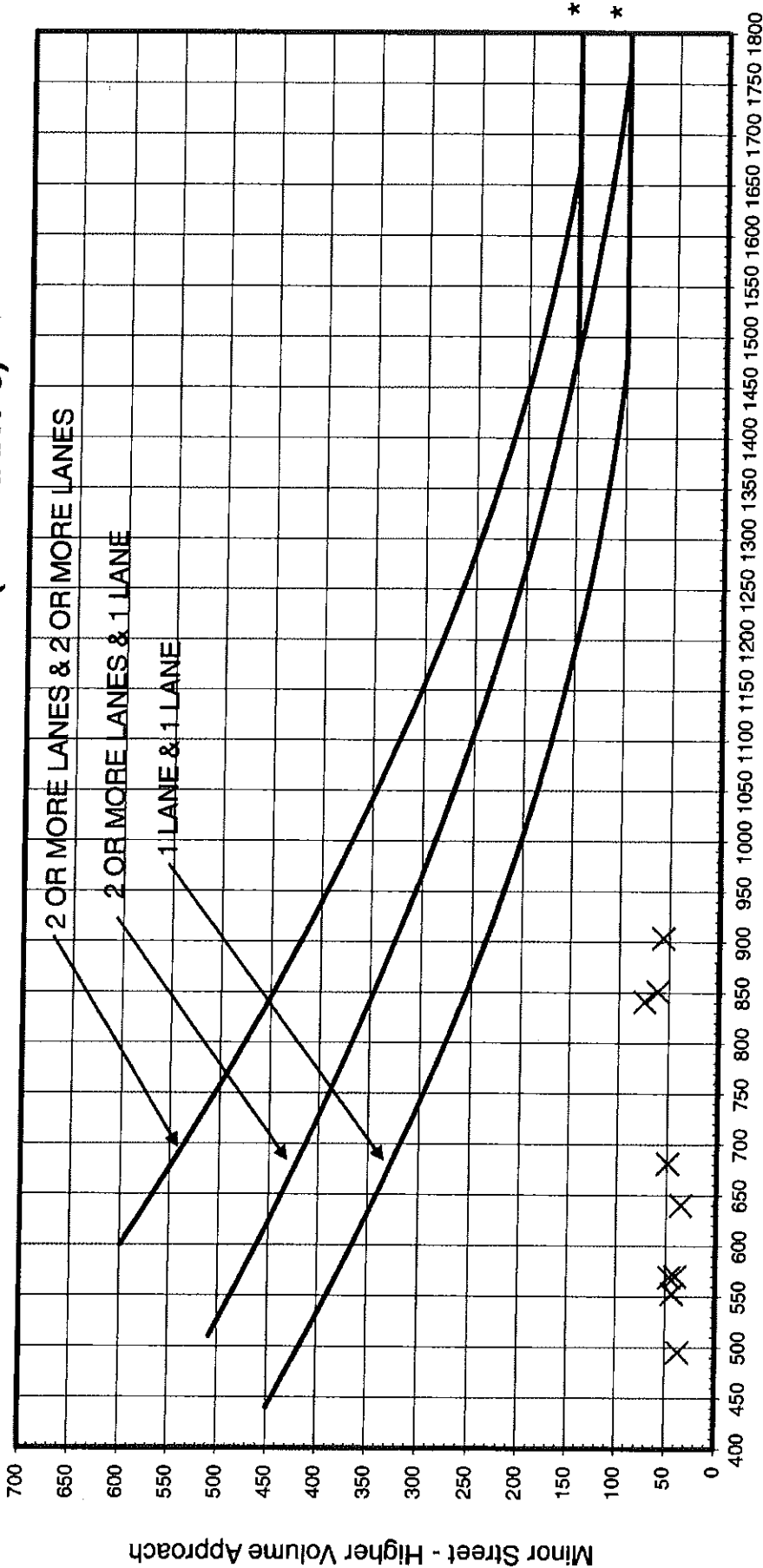
Lanes: 2
1

Warrant 2 (Urban) = 0 Hours Meet NO Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 21, 2011	7:00 AM	10:00 AM	Warm
Tuesday	June 21, 2011	11:00 AM	2:00 PM	Sunny
Tuesday	June 21, 2011	3:00 PM	6:00 PM	Sunny



PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road =
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Tuesday	June 21, 2011	7:00 AM	10:00 AM	Warm
Tuesday	June 21, 2011	11:00 AM	2:00 PM	Sunny
Tuesday	June 21, 2011	3:00 PM	6:00 PM	Sunny



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data Euclid Ave and Coit Ave E. Cleveland, Ohio

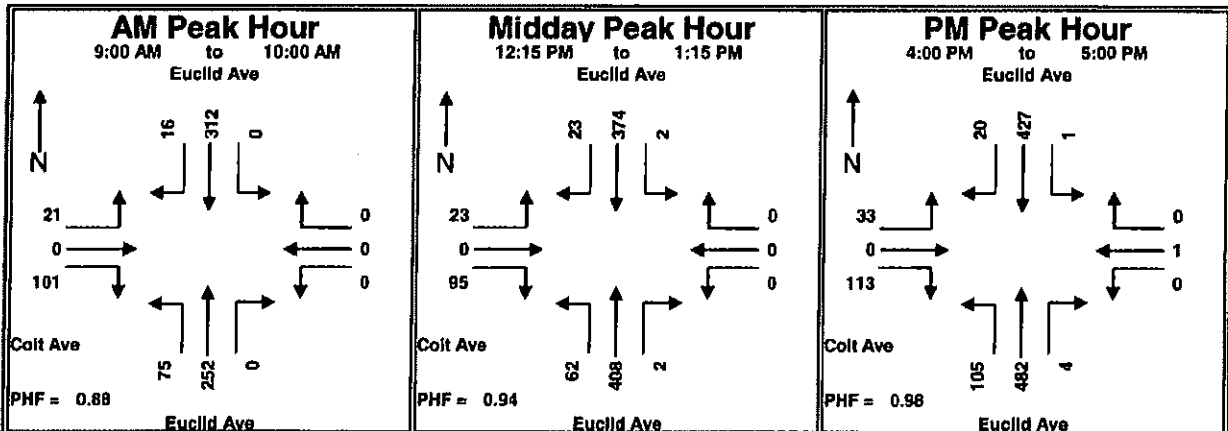


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Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.916	Wednesday	June 15, 2011	7:00 AM	10:00 AM	Sunny
0.916	Wednesday	June 15, 2011	11:00 AM	2:00 PM	Sunny
0.916	Wednesday	June 15, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Coit Ave Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	641	3025	14	40	10	3155	169	38	7014	203	1	879	3	4	1	4	0	1092	8106
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	999	4712	22	62	16	4915	263	59	10927	316	2	1369	5	6	2	6	0	1701	12628



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Cott Ave
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N:2 S:2 E:0 W:1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____

SECT: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED

SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

OTHER (DESCRIBE): _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

WARRANT #7 (CRASH EXPERIENCE)
 Adequate mix of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

COND. NO. OF MAJOR ST. MINOR ST. LANES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3	
	1-WAY	2-WAY	CONDITION A		CONDITION B		100%	80%	100%	80%	FOUR HOUR	PEAK HOUR
	1-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR		
NORM	2+	X	500	150	400	120	750	75	600	60		
70%	1+		600	200	480	160	900	100	720	80		
	2+		350	105	280	84	525	53	420	42		
			420	140	336	112	630	70	504	56		
MID-1AM	0	0										
1AM-2AM	0	0										
2AM-3AM	0	0										
3AM-4AM	0	0										
4AM-5AM	0	0										
5AM-6AM	0	0										
6AM-7AM	0	0										
7AM-8AM	504	82			X			X				
8AM-9AM	582	95			X			X				
9AM-10AM	655	122			X	X		X				
10AM-11AM	0	0										
11AM-NOON	704	103			X			X				
NOON-1PM	845	117			X			X				
1PM-2PM	796	132			X	X		X				
2PM-3PM	0	0										
3PM-4PM	942	132			X			X				
4PM-5PM	1039	146			X	X		X				
5PM-6PM	947	154			X	X		X				
6PM-7PM	0	0			X	X		X				
7PM-8PM	0	0										
8PM-9PM	0	0										
9PM-10PM	0	0										
10PM-11PM	0	0										
11PM-MID	0	0										
HOURS MET			1	5	NO	NO	3	NO	NO	5	NO	NO
WARRANT SATISFIED?			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

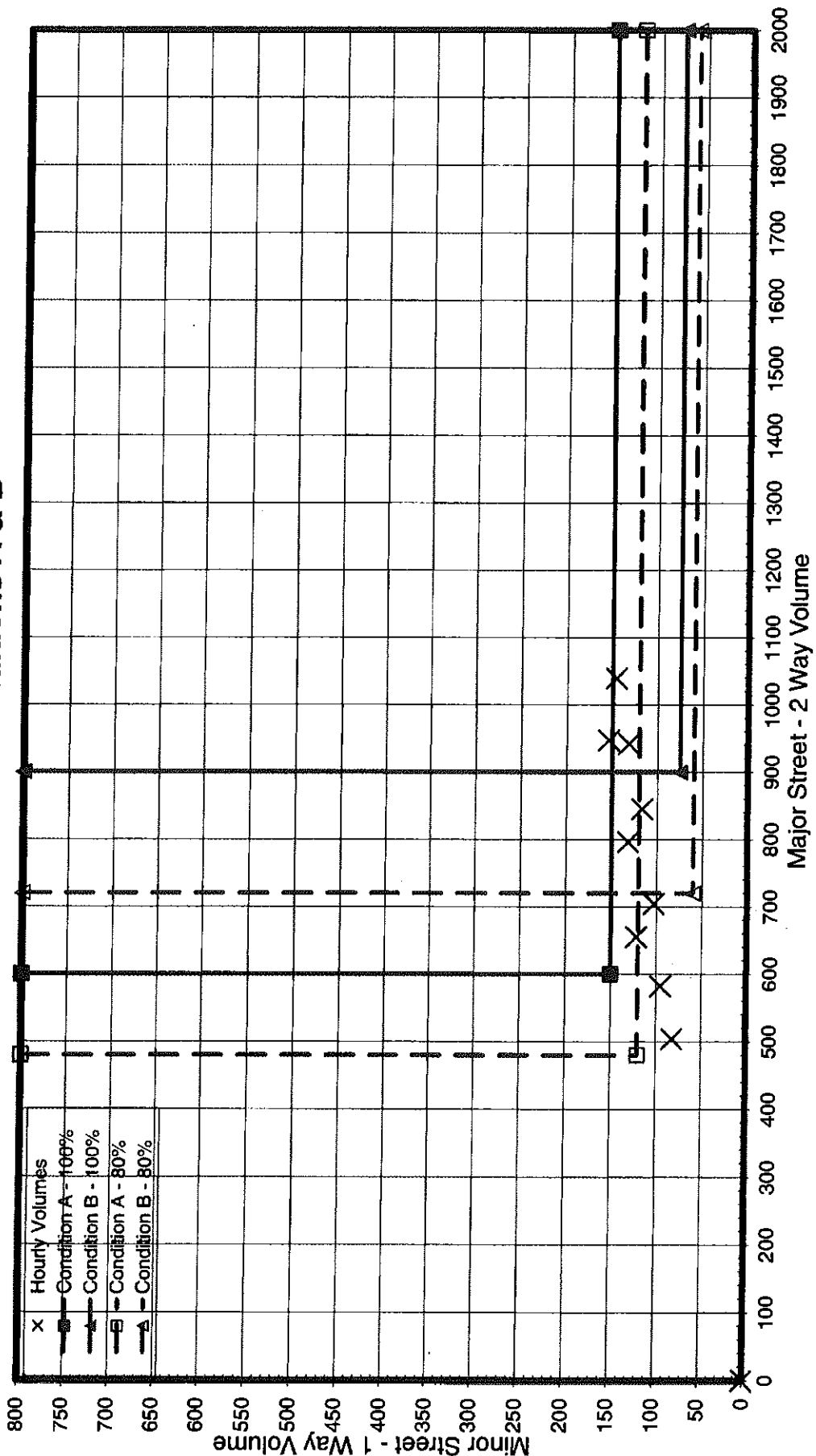
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

WARRANT #7 (CRASH EXPERIENCE)
 Adequate mix of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

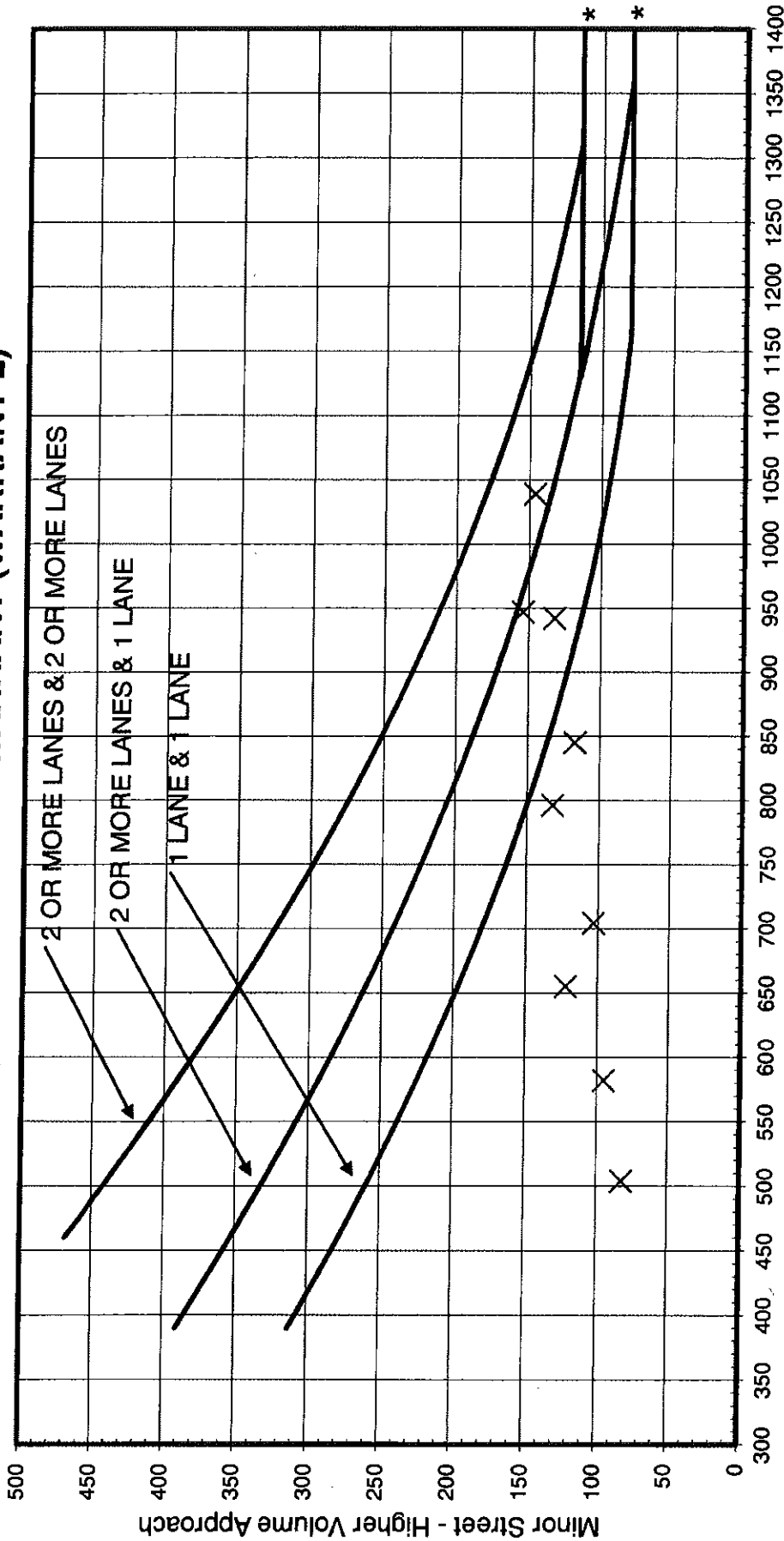


Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 15, 2011	7:00 AM	10:00 AM	Sunny
Wednesday	June 15, 2011	11:00 AM	2:00 PM	Sunny
Wednesday	June 15, 2011	3:00 PM	6:00 PM	Sunny

Major Road =	Euclid Ave	Lanes =	2
Minor Road =	Coit Ave		1
Road Location =	Urban		

Condition	Warrant Met?
Condition A (100%) =	1 Hours Meet
Condition B (100%) =	3 Hours Meet
Condition A (80%) =	5 Hours Meet
Condition B (80%) =	5 Hours Meet

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



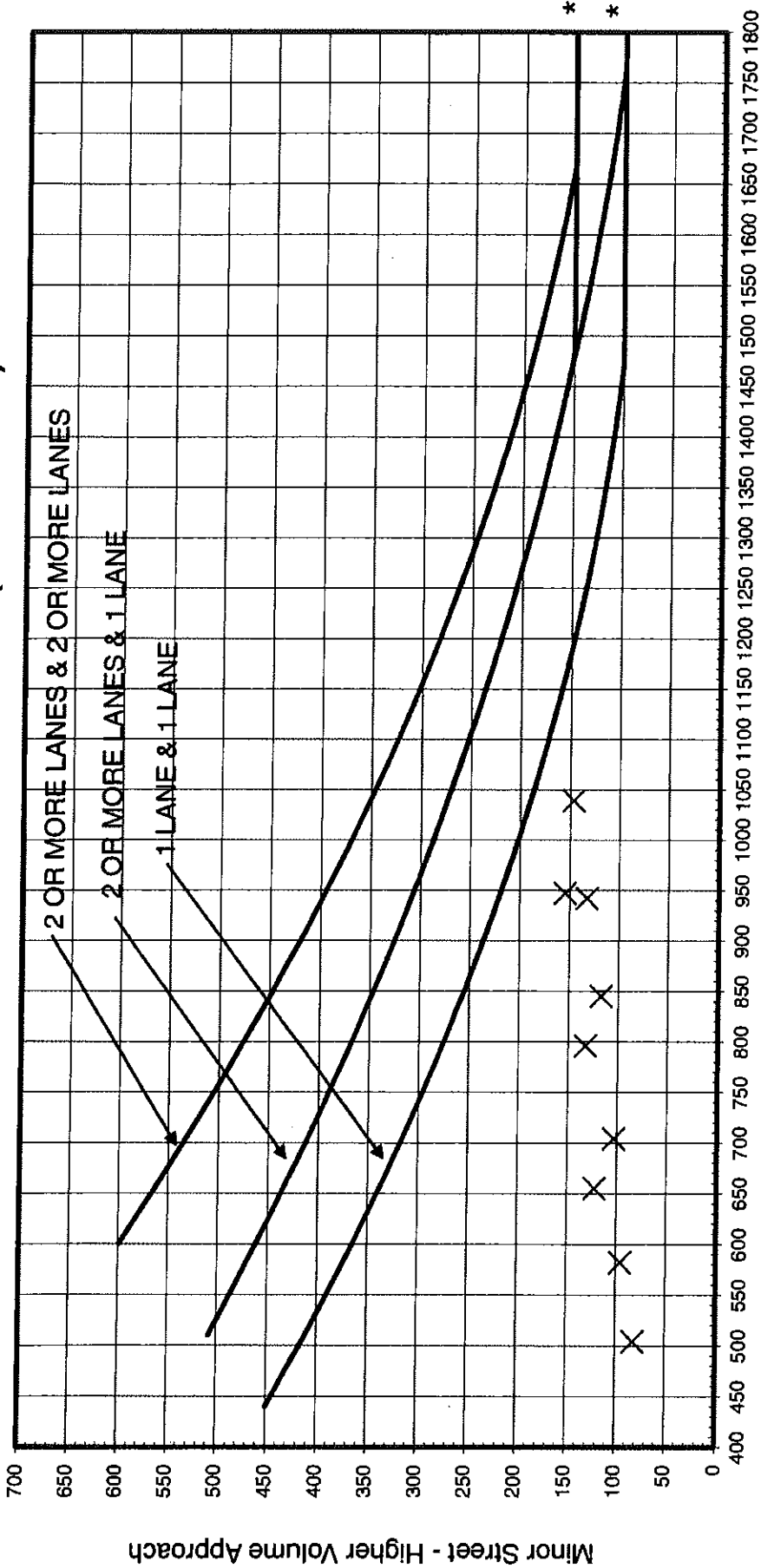
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 15, 2011	7:00 AM	10:00 AM	Sunny
Wednesday	June 15, 2011	11:00 AM	2:00 PM	Sunny
Wednesday	June 15, 2011	3:00 PM	6:00 PM	Sunny

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 2 (Urban) = Hours Meet Warrant Met?

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



Day of Week	Date & Year	From	To	Weather
Wednesday	June 15, 2011	7:00 AM	10:00 AM	Sunny
Wednesday	June 15, 2011	11:00 AM	2:00 PM	Sunny
Wednesday	June 15, 2011	3:00 PM	6:00 PM	Sunny

Major Road = Lanes

Minor Road = Lanes

Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

15-Minute Count Data

Euclid Ave and Delmont Ave

E. Cleveland, Ohio



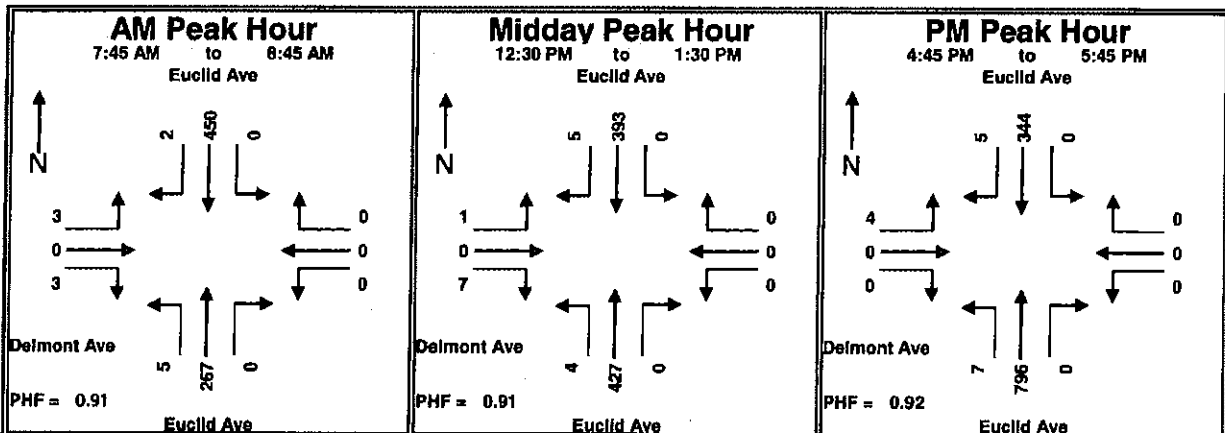
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 16, 2011	7:00 AM	10:00 AM	Cool
0.886	Thursday	June 16, 2011	11:00 AM	2:00 PM	Sunny
0.866	Thursday	June 16, 2011	3:00 PM	6:00 PM	Rain

ADT Factor: 1.70

Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total South	Delmont Ave Eastbound				Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	42	3836	0	34	2	3350	42	27	7272	30	0	38	2	0	0	0	0	68	7340
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 3%				Percent Trucks = 0%					
ADT	63	5780	0	51	3	5048	63	41	10957	45	0	57	3	0	0	0	0	102	11060



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Delmont Ave
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 2 E: 0 W: 1
 PRESENTLY SIGNALIZED? Yes
 DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY:

CO: Cuyahoga
 CONSULTANT: URS CORPORATION
 CALC. BY:
 SECT:
 RTE:
 CKD BY:

ADDITIONAL ITEMS ATTACHED
 SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

OTHER (DESCRIBE):

COND. NO. OF LANE	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT #1	WARRANT #2	WARRANT #3	
	MAJOR ST		MINOR ST		100%		80%		100%		80%		PEAK HOUR	FOUR HOUR				NO
	2-WAY	1-WAY	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR						
NORM 1	X		500	150	400	120	750	75	600	60								
2+	X		600	200	480	160	900	100	720	80								
70% 1			350	105	280	84	525	53	420	42								
70% 2+			420	140	336	112	630	70	504	56								
MID-1AM																		
1AM-2AM																		
2AM-3AM																		
3AM-4AM																		
4AM-5AM																		
5AM-6AM																		
6AM-7AM																		
7AM-9AM			590															
8AM-9AM			701															
9AM-10AM			614															
10AM-11AM			0															
11AM-NOON			675															
NOON-1PM			801															
1PM-2PM			792															
2PM-3PM			0															
3PM-4PM			996															
4PM-5PM			1041															
5PM-6PM			1082															
6PM-7PM			0															
7PM-8PM			0															
8PM-9PM			0															
9PM-10PM			0															
10PM-11PM			0															
11PM-MID			0															
HOURS MET			0	0	0	0	0	0	0	0	0	0	0	0	0	0		
WARRANT SATISFIED?			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: **NO**

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? **NO**

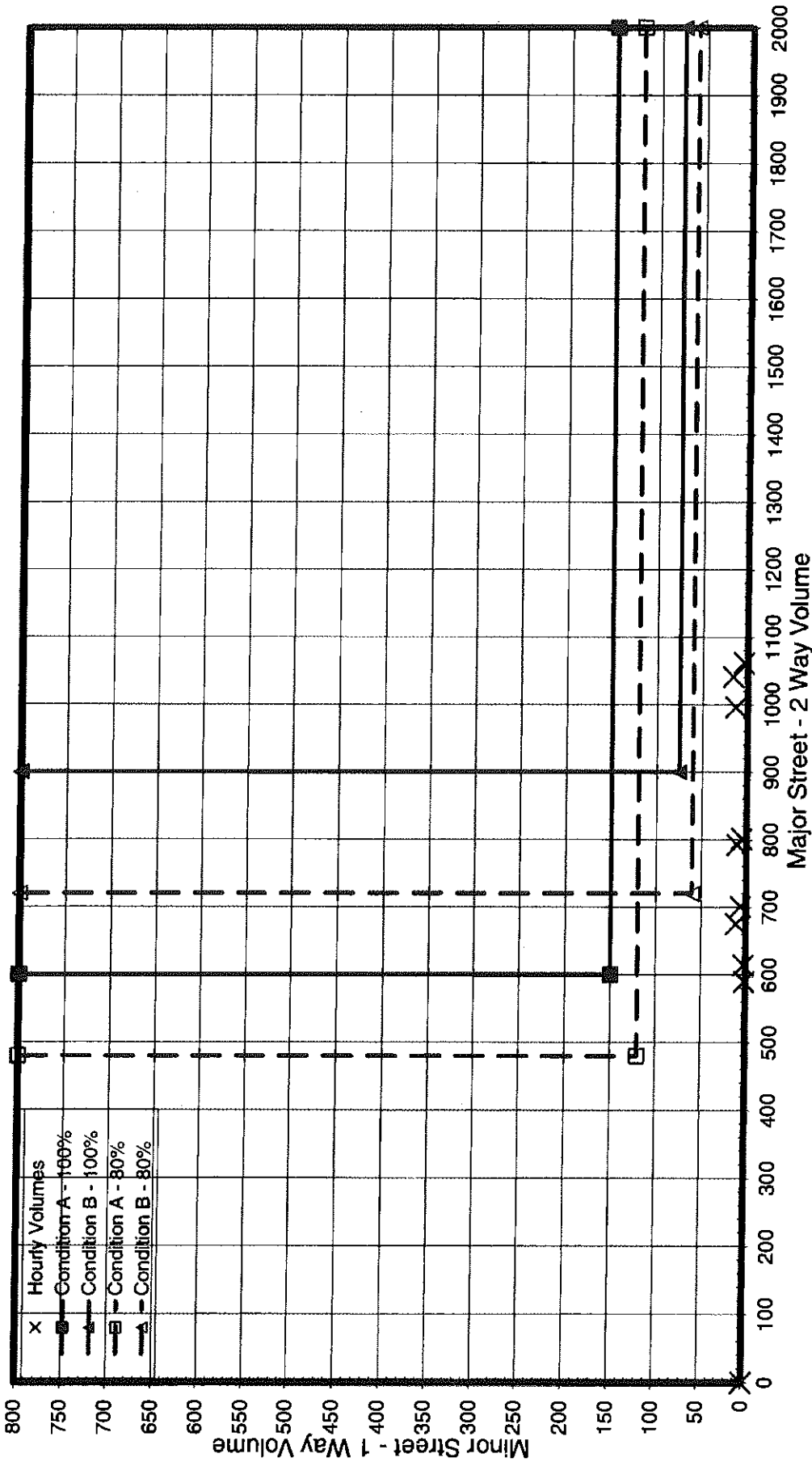
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? **NO**

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? **NO**

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? **NO**

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B



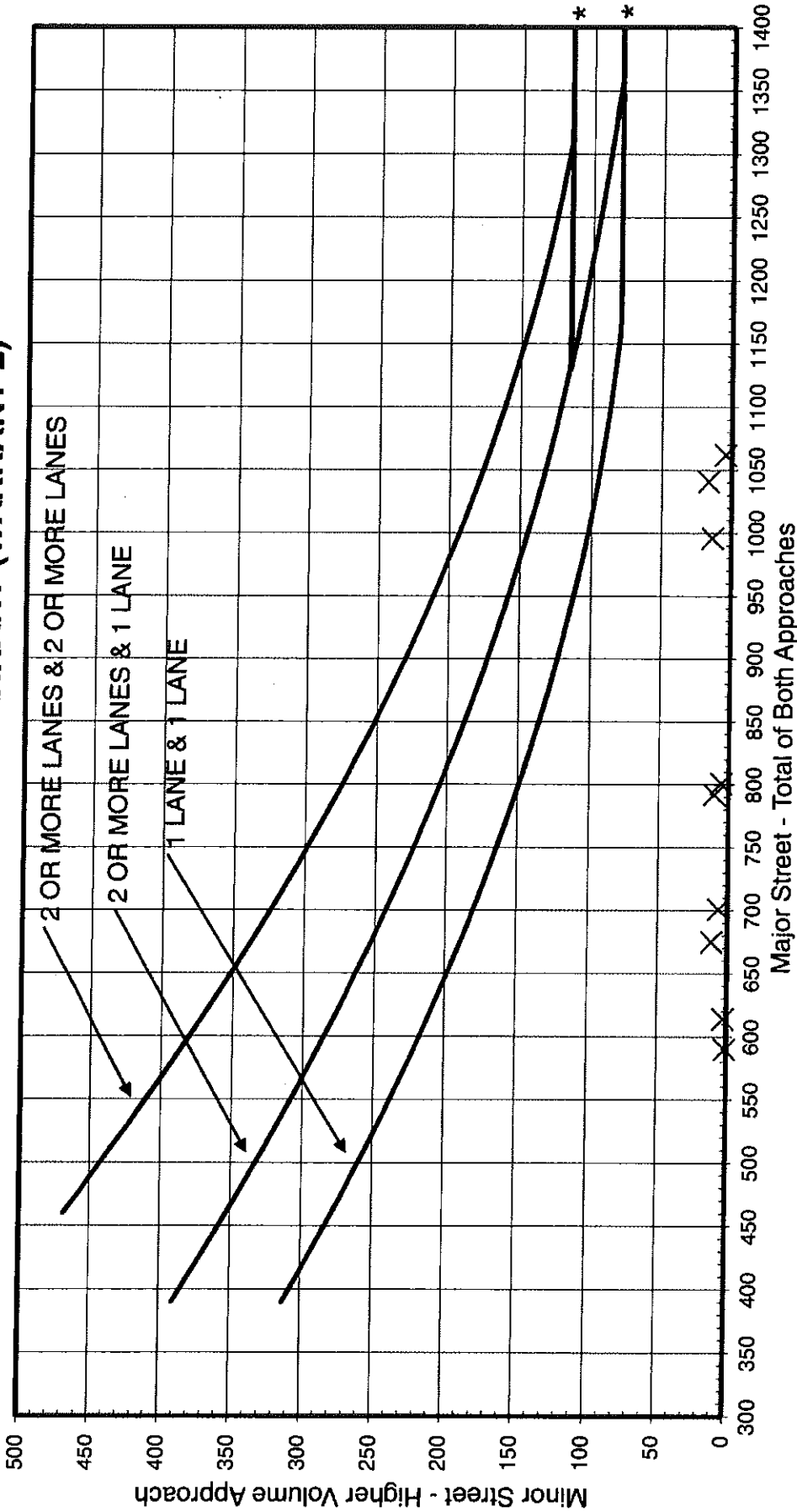
Major Road =	Euclid Ave	Lanes	2
Minor Road =	Delmont Ave		1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Meet	No	No
Condition B (100%) =	0 Hours Meet	No	No
Condition A (80%) =	0 Hours Meet	No	No
Condition B (80%) =	0 Hours Meet	No	No

Day of Week	Date & Year	From	To	Weather
Thursday	June 16, 2011	7:00 AM	10:00 AM	Cool
Thursday	June 16, 2011	11:00 AM	2:00 PM	Sunny
Thursday	June 16, 2011	3:00 PM	6:00 PM	Rain



564 White Pond Drive
Akron, OH 44320-1100
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Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Euclid Ave
 Minor Road = Delmont Ave
 Road Location = Urban

Lanes: 2
 1

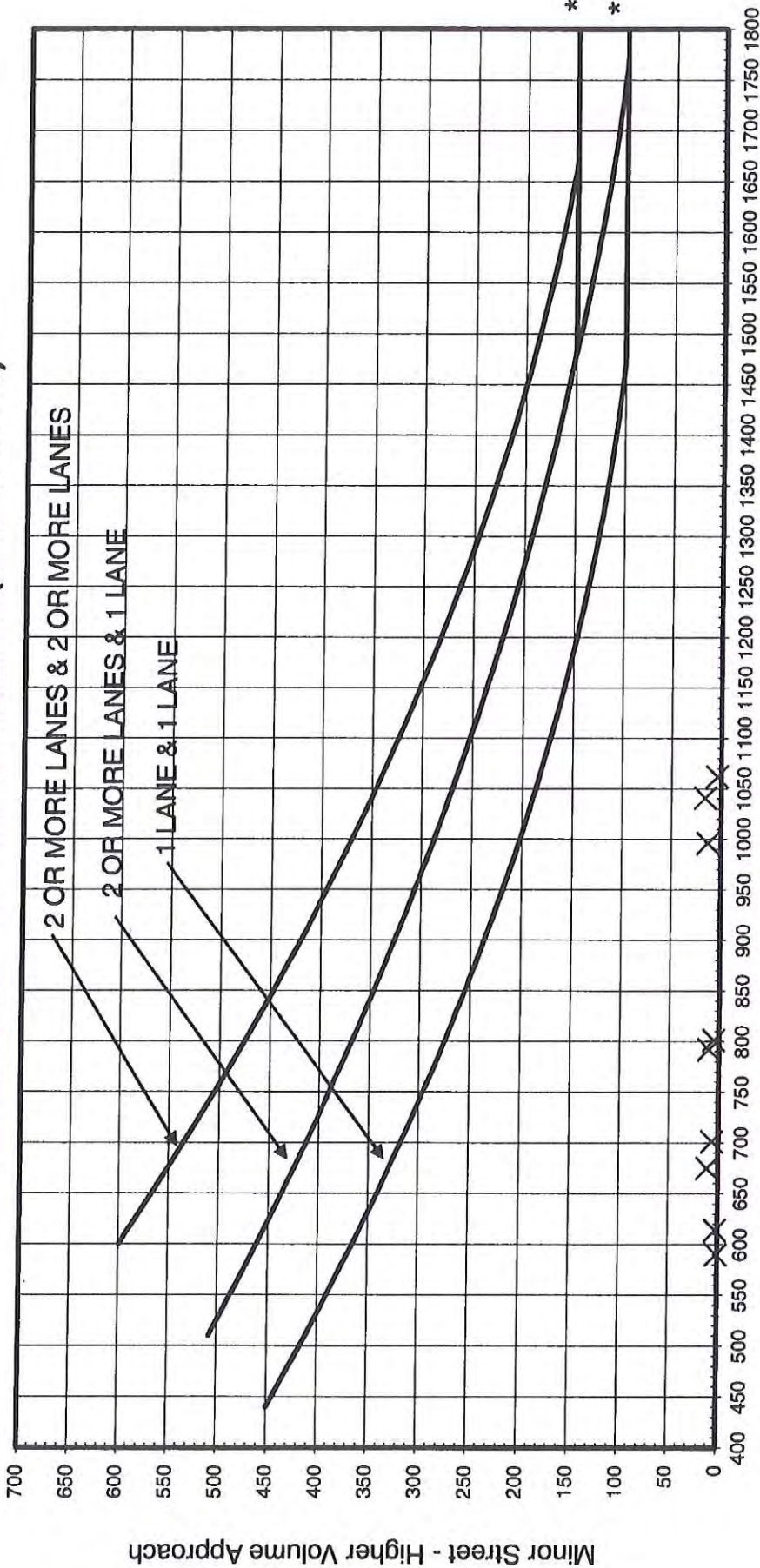
Warrant Met? Hours Meet NO

Day of Week	Date & Year	From	To	Weather
Thursday	June 16, 2011	7:00 AM	10:00 AM	Cool
Thursday	June 16, 2011	11:00 AM	2:00 PM	Sunny
Thursday	June 16, 2011	3:00 PM	6:00 PM	Rain



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PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes

Minor Road =

Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 16, 2011	7:00 AM	10:00 AM	Cool
Thursday	June 16, 2011	11:00 AM	2:00 PM	Sunny
Thursday	June 16, 2011	3:00 PM	6:00 PM	Rain



7564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
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15-Minute Count Data

Euclid Ave and Doan Ave

E. Cleveland, Ohio

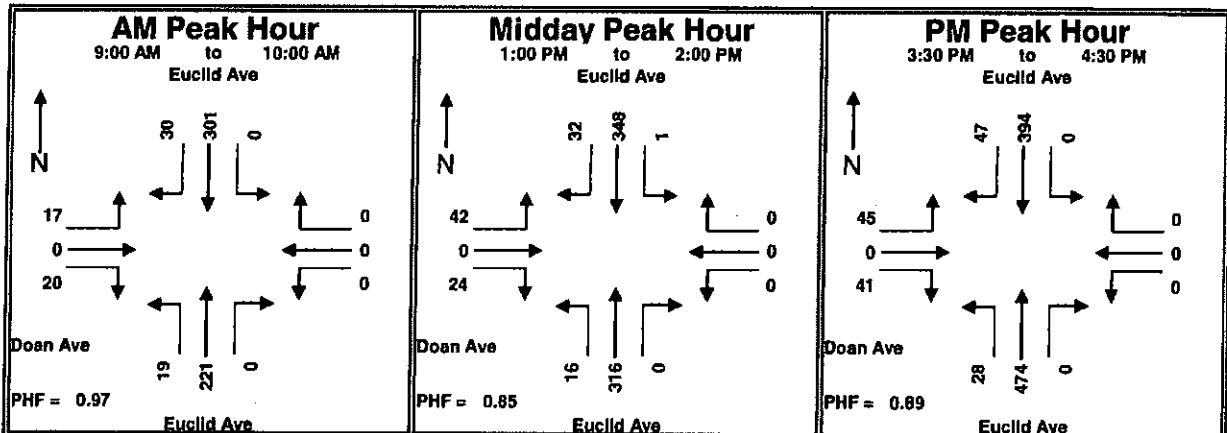


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Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 14, 2011	7:00 AM	10:00 AM	Cloudy
0.921	Tuesday	June 14, 2011	11:00 AM	2:00 PM	Cloudy
0.921	Tuesday	June 14, 2011	3:00 PM	6:00 PM	Cloudy

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Doan Ave Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	197	2683	0	17	1	2912	309	18	6102	296	0	236	2	0	0	0	0	532	6834
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	309	4202	0	27	2	4561	484	28	9558	464	0	370	3	0	0	0	0	833	10391
7:00 AM	5	23	0	0	0	38	2	1	68	2	0	2	0	0	0	0	0	4	72
7:15 AM	3	24	0	1	0	55	3	1	85	2	0	4	0	0	0	0	0	6	91
7:30 AM	1	35	0	0	0	62	7	2	105	3	0	7	0	0	0	0	0	10	115
7:45 AM	3	36	0	0	0	76	8	1	123	4	0	2	0	0	0	0	0	6	129
8:00 AM	4	52	0	1	0	71	8	0	135	4	0	5	0	0	0	0	0	9	144
8:15 AM	2	39	0	0	0	71	3	1	115	3	0	4	0	0	0	0	0	7	122
8:30 AM	2	44	0	0	0	83	1	0	130	4	0	5	0	0	0	0	0	9	139
8:45 AM	2	49	0	1	0	68	9	0	128	4	0	3	0	0	0	0	0	7	135
9:00 AM	11	51	0	2	0	74	6	0	142	4	0	10	0	0	0	0	0	14	156
9:15 AM	2	68	0	1	0	66	8	1	144	4	0	4	1	0	0	0	0	8	152
9:30 AM	2	48	0	1	0	81	9	2	140	4	0	5	0	0	0	0	0	9	149
9:45 AM	4	54	0	1	0	80	7	2	145	5	0	1	0	0	0	0	0	8	151
11:00 AM	4	62	0	1	0	63	6	0	135	13	0	7	0	0	0	0	0	20	155
11:15 AM	1	59	0	0	0	79	9	0	148	9	0	8	0	0	0	0	0	17	165
11:30 AM	6	66	0	1	0	56	8	0	138	5	0	6	0	0	0	0	0	11	149
11:45 AM	6	81	0	2	0	96	13	0	198	5	0	8	0	0	0	0	0	13	209
12:00 PM	9	88	0	1	0	73	4	1	174	10	0	7	0	0	0	0	0	17	191
12:15 PM	9	67	0	0	0	84	8	0	178	13	0	5	0	0	0	0	0	18	196
12:30 PM	9	63	0	0	0	78	8	1	158	7	0	7	0	0	0	0	0	14	172
12:45 PM	3	72	0	0	0	83	10	0	168	7	0	10	0	0	0	0	0	17	185
1:00 PM	0	85	0	0	0	56	11	0	152	8	0	2	1	0	0	0	0	10	162
1:15 PM	3	78	0	0	0	91	8	0	178	13	0	5	0	0	0	0	0	18	196
1:30 PM	8	79	0	1	0	110	9	0	208	15	0	8	0	0	0	0	0	23	229
1:45 PM	5	74	0	0	1	91	6	1	177	6	0	9	0	0	0	0	0	15	182
3:00 PM	9	91	0	0	0	104	9	1	213	14	0	2	0	0	0	0	0	16	229
3:15 PM	5	86	0	1	0	92	13	1	196	13	0	3	0	0	0	0	0	16	212
3:30 PM	7	131	0	0	0	118	10	0	264	13	0	11	0	0	0	0	0	24	288
3:45 PM	9	120	0	1	0	86	10	0	225	7	0	14	0	0	0	0	0	21	246
4:00 PM	6	118	0	0	0	103	4	0	231	16	0	10	0	0	0	0	0	28	257
4:15 PM	6	105	0	0	0	89	23	0	223	9	0	6	0	0	0	0	0	15	238
4:30 PM	9	98	0	0	0	92	8	2	205	16	0	8	0	0	0	0	0	24	229
4:45 PM	8	96	0	0	0	87	19	0	210	15	0	11	0	0	0	0	0	26	238
5:00 PM	6	125	0	0	0	74	11	0	216	8	0	7	0	0	0	0	0	15	231
5:15 PM	5	106	0	1	0	99	9	0	219	11	0	14	0	0	0	0	0	25	244
5:30 PM	18	102	0	0	0	93	11	0	224	11	0	7	0	0	0	0	0	18	242
5:45 PM	5	108	0	0	0	82	13	0	208	9	0	9	0	0	0	0	0	18	226



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Dean Ave
 LOCATION IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 2 E: 0 W: 1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga RTE: _____
 CONSULTANT: URS CORPORATION CALC. BY: _____
 SECT: _____
 CKD BY: _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO

WARRANT #3 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from: _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

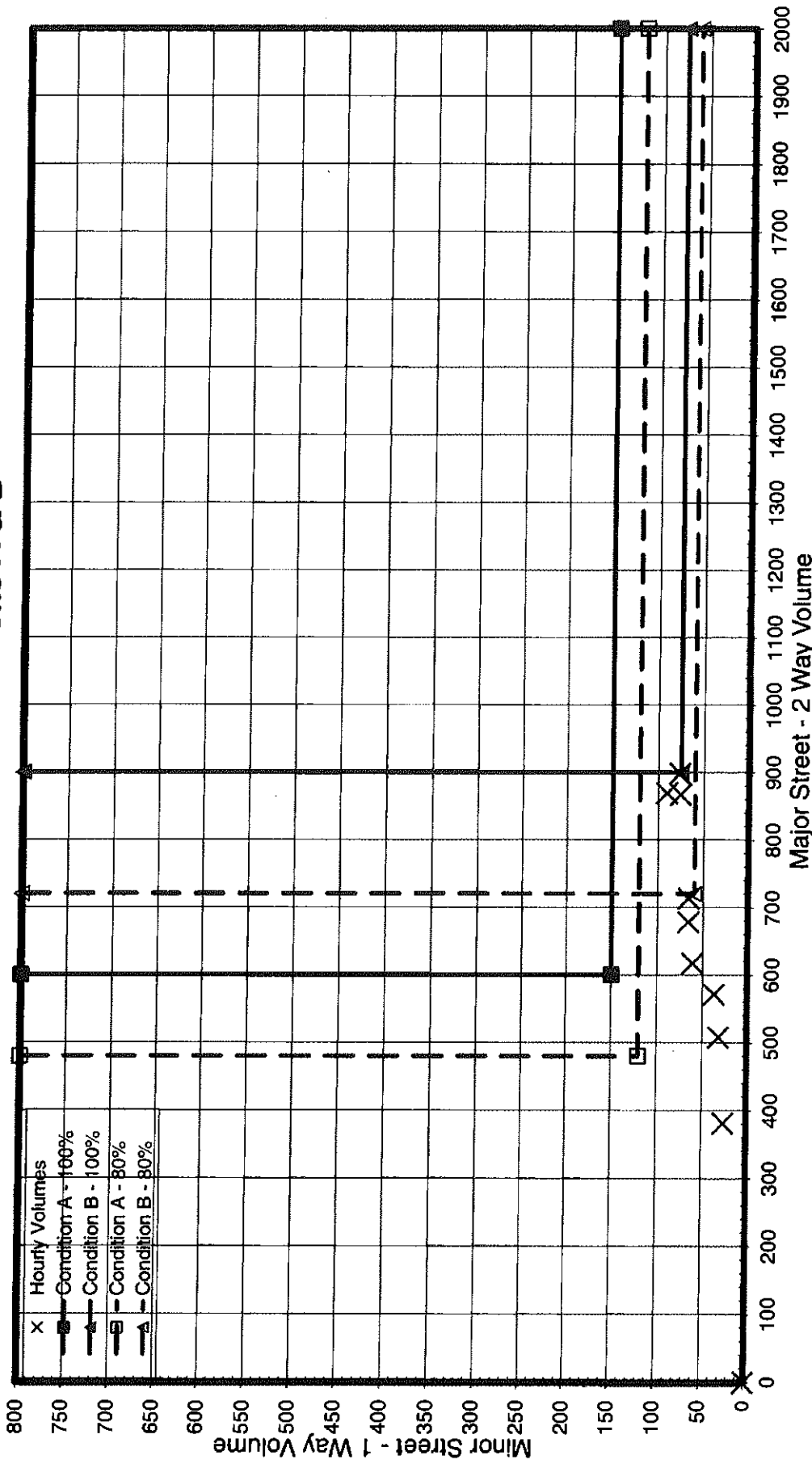
WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3	
	MAJOR ST. MINOR ST.		CONDITION A			CONDITION B			FOUR HOUR		PEAK HOUR	
	1-WAY	2-WAY	100%	80%	100%	80%	100%	80%				
NORM	1	2+	500	150	400	120	750	75	600	60		
70%	1	2+	600	200	480	160	900	100	720	80		
	2+		350	105	280	84	525	53	420	42		
			420	140	336	112	630	70	504	56		
MID-1AM	0	0										
1AM-2AM	0	0										
2AM-3AM	0	0										
3AM-4AM	0	0										
4AM-5AM	0	0										
5AM-6AM	0	0										
6AM-7AM	0	0										
7AM-8AM	381	26										
8AM-9AM	508	32										
9AM-10AM	571	37			X							
10AM-11AM	0	0			X							
11AM-NOON	617	61			X							
NOON-1PM	678	66			X							
1PM-2PM	713	66			X							
2PM-3PM	0	0			X							
3PM-4PM	898	77			X							
4PM-5PM	869	91			X							
5PM-6PM	867	76			X							
6PM-7PM	0	0			X							
7PM-8PM	0	0										
8PM-9PM	0	0										
9PM-10PM	0	0										
10PM-11PM	0	0										
11PM-MID	0	0										
HOURS MET			0	0	0	0	0	0	0	3	0	0
WARRANT SATISFIED?			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ADDITIONAL ITEMS ATTACHED: _____
 OTHER (DESCRIBE): _____
 SPEED DATA: _____
 DELAY ANALYSIS: _____
 TIME/SPACE DIAGRAM: _____
 GROUND PHOTOGRAPHS: _____
 AERIAL PHOTOGRAPHS: _____
 DOCUMENTATION/EXPLANATION: _____

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

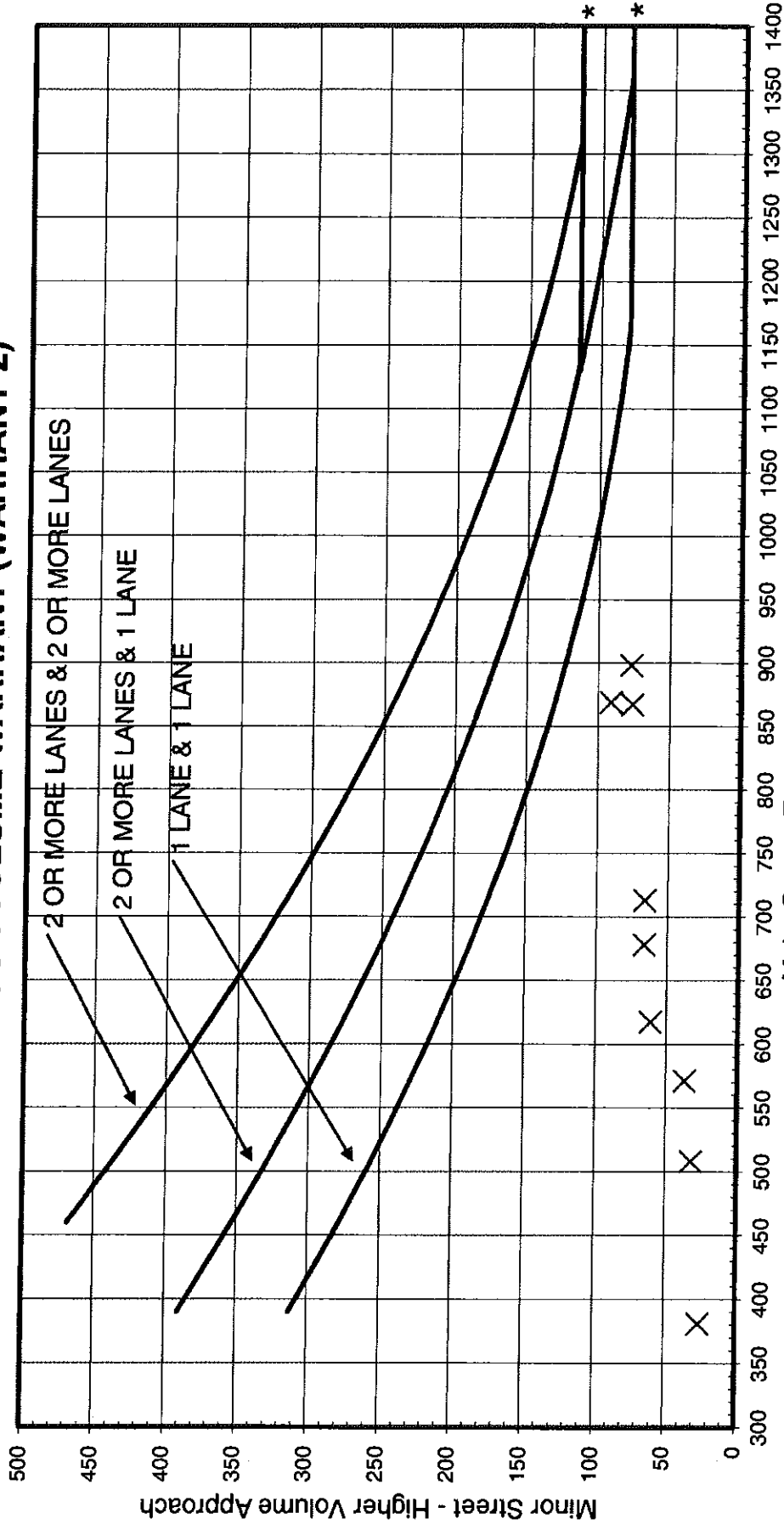
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	From	To	Weather
Tuesday	June 14, 2011	7:00 AM	10:00 AM	Cloudy
Tuesday	June 14, 2011	11:00 AM	2:00 PM	Cloudy
Tuesday	June 14, 2011	3:00 PM	6:00 PM	Cloudy

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Doan Ave		1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Meet	No	
Condition B (100%) =	0 Hours Meet	No	
Condition A (80%) =	0 Hours Meet	No	
Condition B (80%) =	3 Hours Meet	No	

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



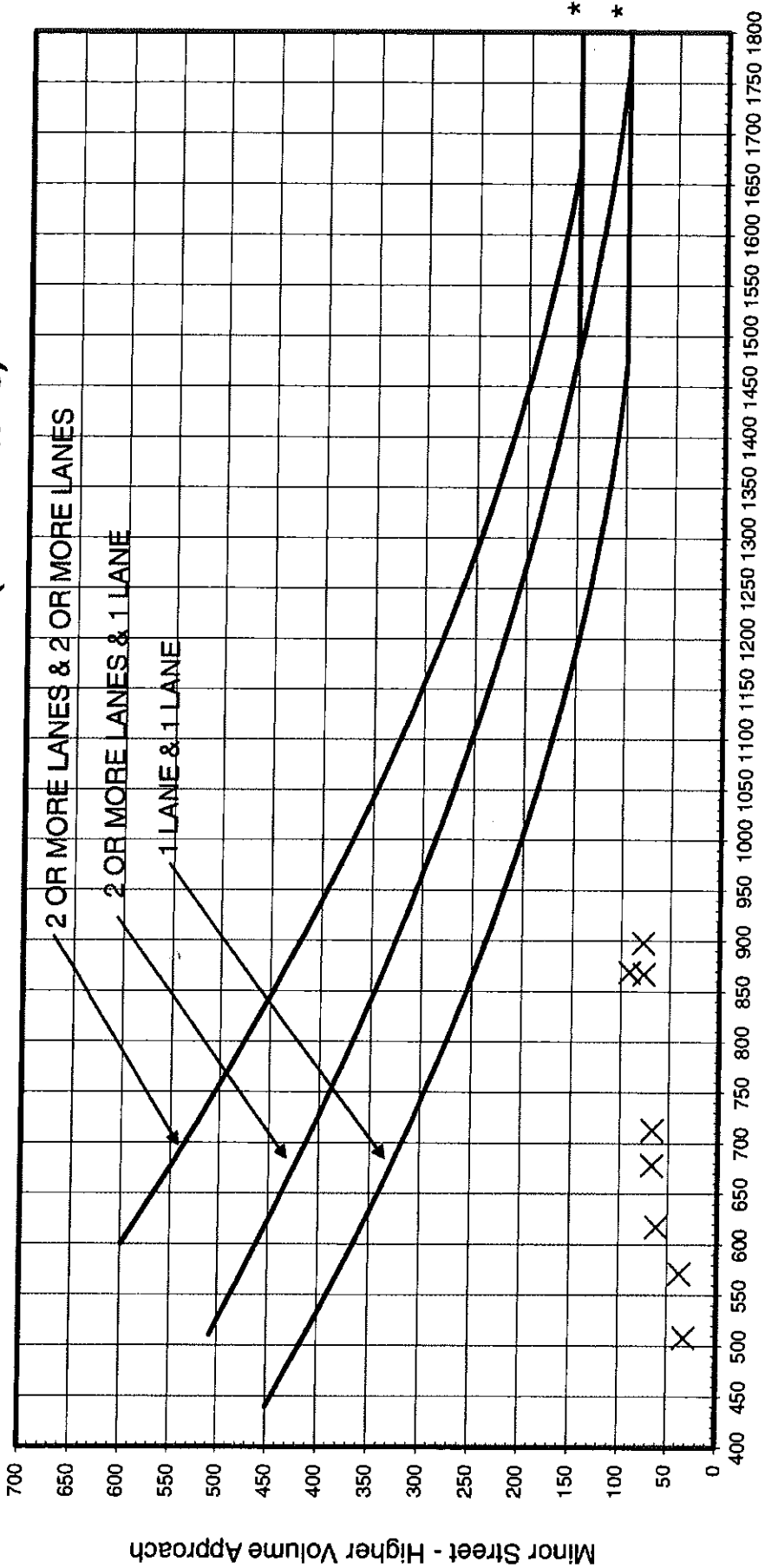
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	From	To	Weather
Tuesday	June 14, 2011	7:00 AM	10:00 AM	Cloudy
Tuesday	June 14, 2011	11:00 AM	2:00 PM	Cloudy
Tuesday	June 14, 2011	3:00 PM	6:00 PM	Cloudy

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Doan Ave		1
Road Location =	Urban		

Warrant 2 (Urban) = 0 Hours Meet NO

PEAK HOUR VOLUME WARRANT (WARRANT 3)



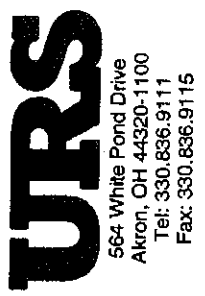
Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Tuesday	June 14, 2011	7:00 AM	10:00 AM	Cloudy
Tuesday	June 14, 2011	11:00 AM	2:00 PM	Cloudy
Tuesday	June 14, 2011	3:00 PM	6:00 PM	Cloudy



15-Minute Count Data Euclid Ave and Eddy Rd



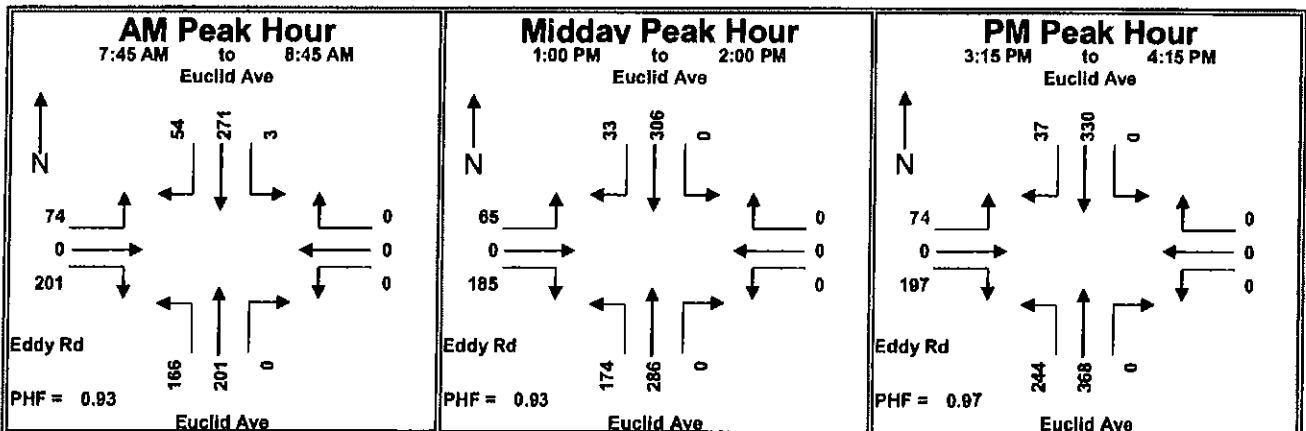
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.894	Thursday	May 19, 2011	7:00 AM	10:00 AM	
0.894	Thursday	May 19, 2011	11:00 AM	2:00 PM	
0.894	Thursday	May 19, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Eddy Rd Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	1648	2552	0	16	3	2514	336	15	7053	499	1	1637	6	0	0	0	0	2137	9190
	Percent Trucks = 0%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	2506	3880	0	24	5	3822	511	23	10723	759	2	2489	9	0	0	0	0	3249	13973



Notes:

Euclid/Eddy
Bus Counts
May 19, 2011

File Name : 2305-5-19-2C
Site Code : 00000000
Start Date : 05/19/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
07:15 AM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
07:30 AM	0	3	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
07:45 AM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
Total	0	11	0	0	0	0	0	0	0	11	0	0	0	0	0	0	2
08:00 AM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
08:15 AM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
08:30 AM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
08:45 AM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
Total	0	10	0	0	0	0	0	0	0	11	0	0	0	0	0	0	2
09:00 AM	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
09:15 AM	0	3	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
09:30 AM	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
09:45 AM	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Total	0	11	0	0	0	0	0	0	0	19	0	0	0	0	0	0	3
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
11:15 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
11:30 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
11:45 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	6	0	0	0	0	0	0	0	5	0	0	0	0	0	0	1
12:00 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
12:15 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:30 PM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
12:45 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	8	0	0	0	0	0	0	0	6	0	0	0	0	0	0	1
01:00 PM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
01:15 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
01:30 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
01:45 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0
Total	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	2	1
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
03:15 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
03:30 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
03:45 PM	0	4	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0
Total	0	11	0	0	0	0	0	0	0	5	2	0	0	0	0	0	1
04:00 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04:15 PM	1	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
04:30 PM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0
04:45 PM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total	1	12	0	0	0	0	0	0	0	6	0	0	0	0	0	1	2

Euclid/Eddy
 Bus Counts
 May 19, 2011

File Name : 2305-5-19-20
 Site Code : 00000000
 Start Date : 05/19/2011
 Page No : 2

Groups Printed: Bank 2

Start Time	From North				From East				From South				From West				Int. Tot:
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
05:15 PM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
05:30 PM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
05:45 PM	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Total	0	10	0	0	0	0	0	0	0	10	0	0	0	0	0	0	2
Grand Total	1	86	0	0	0	0	0	0	0	82	2	0	0	0	3	0	17
Approch %	1.1	98.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.6	2.4	0.0	0.0	0.0	100.0	0.0	
Total %	0.6	49.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.1	1.1	0.0	0.0	0.0	1.7	0.0	

15-Minute Count Data Euclid Ped and Eddy Ped



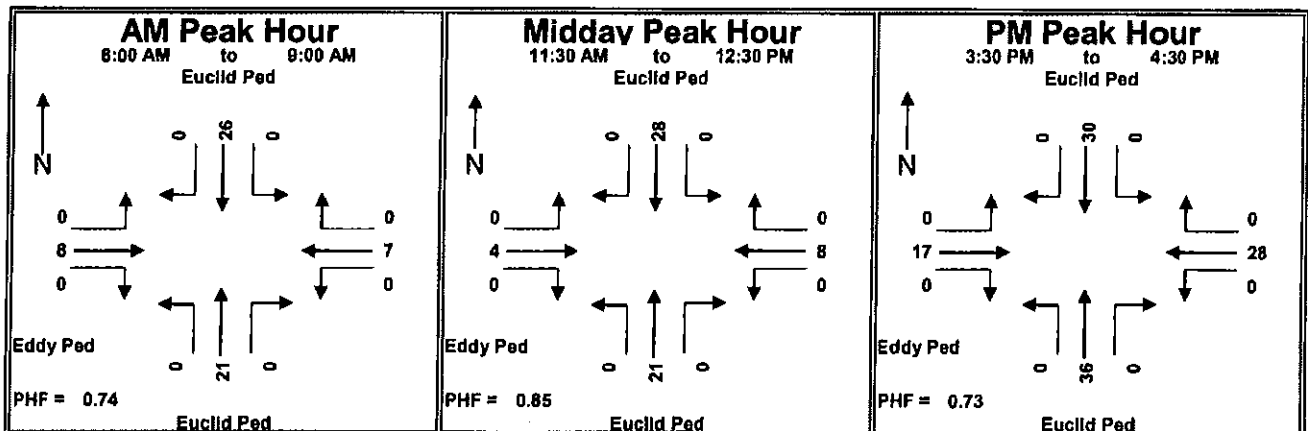
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.894	Thursday	May 19, 2011	7:00 AM	10:00 AM	
0.894	Thursday	May 19, 2011	11:00 AM	2:00 PM	
0.894	Thursday	May 19, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Eddy Ped Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	190	0	0	0	196	0	0	386	0	65	0	0	0	69	0	0	134	520
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	289	0	0	0	298	0	0	587	0	99	0	0	0	105	0	0	204	791



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Edgy Rd
 LOCATED IN CITY/VILLAGE/RURAL: Urban
 NUMBER OF LANES PER APPROACH: N:2 S:2 E:0 W:1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION SET: _____
 CALC. BY: _____ CKD BY: _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from: _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ TWO-WAY

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

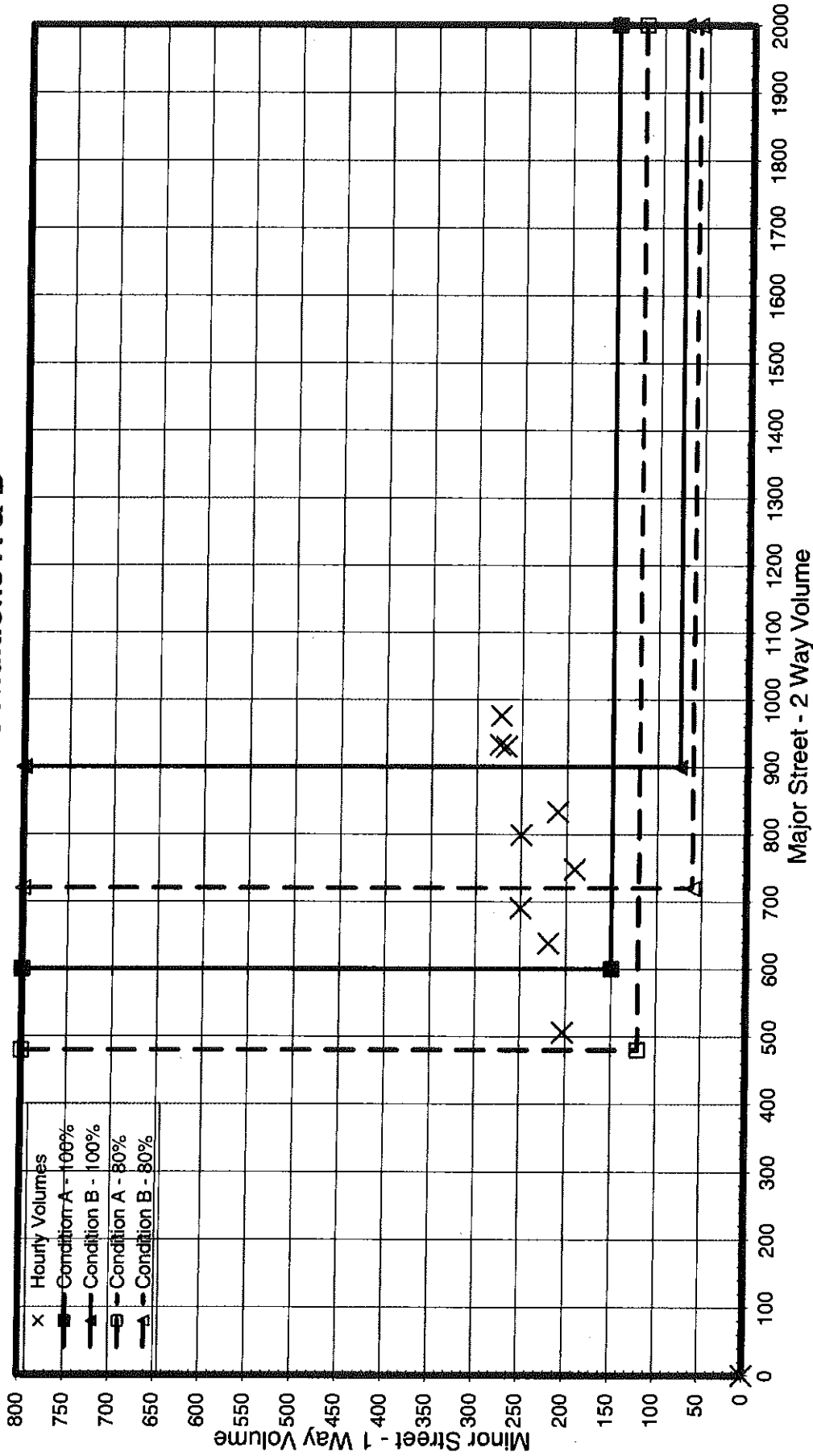
COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3	
	MAJOR 2-WAY	MINOR 1-WAY	100%		80%		100%		80%		FOUR HOUR	PEAK HOUR
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	YES	NO
NORM 1	500	150	400	120	750	75	600	60				
70% 2+	600	200	480	160	900	100	720	80				
MID-1AM	350	105	280	84	525	53	420	42				
1AM-2AM	420	140	336	112	630	70	504	56				
2AM-3AM												
3AM-4AM												
4AM-5AM												
5AM-6AM												
6AM-7AM												
7AM-8AM	506	203	X	X	X	X	X	X				
8AM-9AM	690	250	X	X	X	X	X	X			X	
9AM-10AM	638	219	X	X	X	X	X	X			X	
10AM-11AM	0	0										
11AM-NOON	748	191	X	X	X	X	X	X				
NOON-1PM	833	210	X	X	X	X	X	X				
1PM-2PM	759	250	X	X	X	X	X	X			X	
2PM-3PM	0	0										
3PM-4PM	976	273	X	X	X	X	X	X			X	
4PM-5PM	933	274	X	X	X	X	X	X			X	
5PM-6PM	930	267	X	X	X	X	X	X			X	
6PM-7PM	0	0										
7PM-8PM	0	0										
8PM-9PM	0	0										
9PM-10PM	0	0										
10PM-11PM	0	0										
11PM-MID	0	0										
HOURS MET			8	9	3	6			6	0	6	0
WARRANT SATISFIED?			YES	YES	NO	NO			YES	NO	YES	NO

OTHER (DESCRIBE): _____

ADDITIONAL ITEMS ATTACHED
 SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

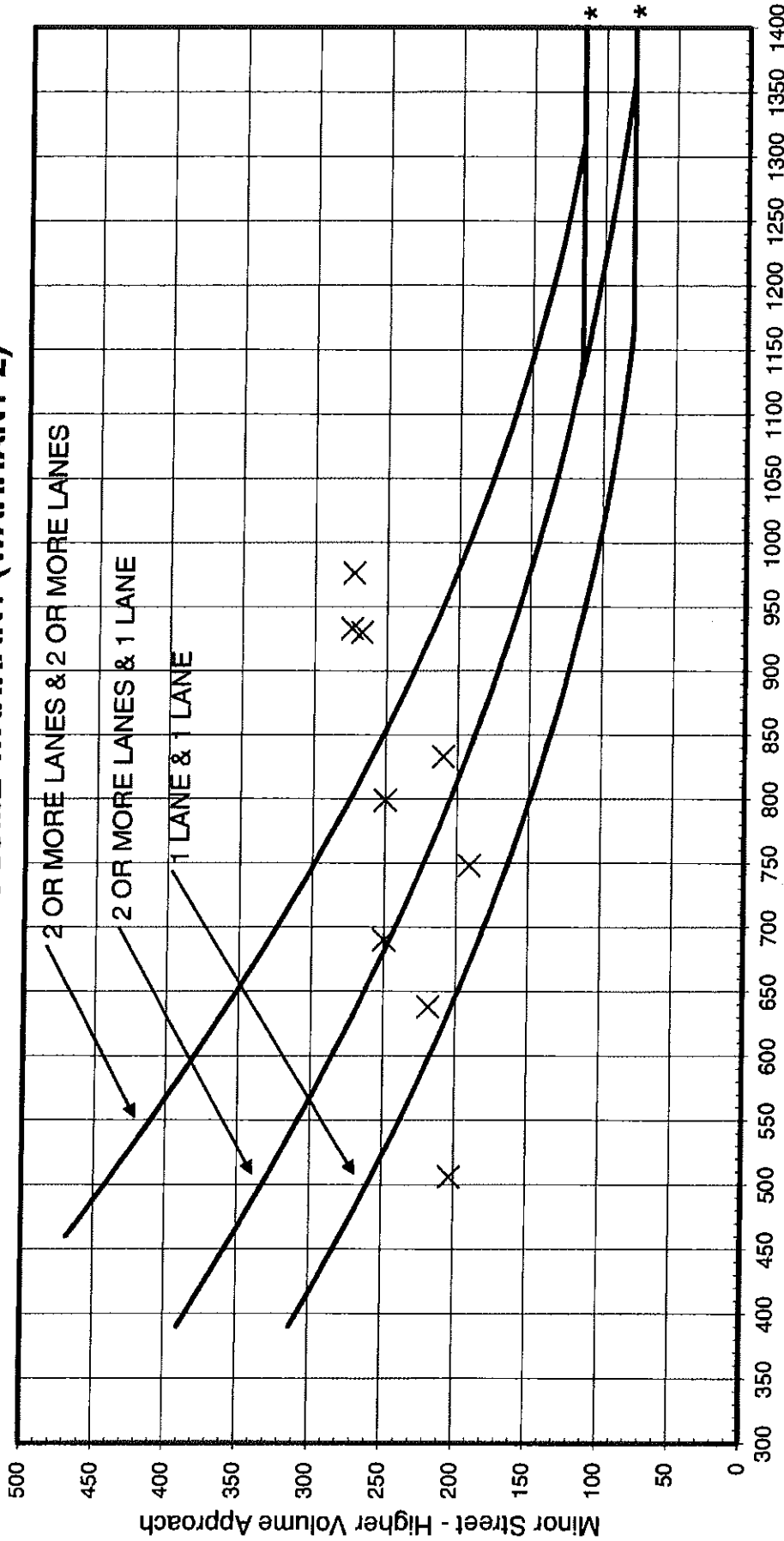


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	May 19, 2011	7:00 AM	10:00 AM	
Thursday	May 19, 2011	11:00 AM	2:00 PM	
Thursday	May 19, 2011	3:00 PM	6:00 PM	

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Eddy Rd		1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	8 Hours Meet	Yes	
Condition B (100%) =	3 Hours Meet	No	
Condition A (80%) =	9 Hours Meet	Yes	
Condition B (80%) =	6 Hours Meet	No	

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



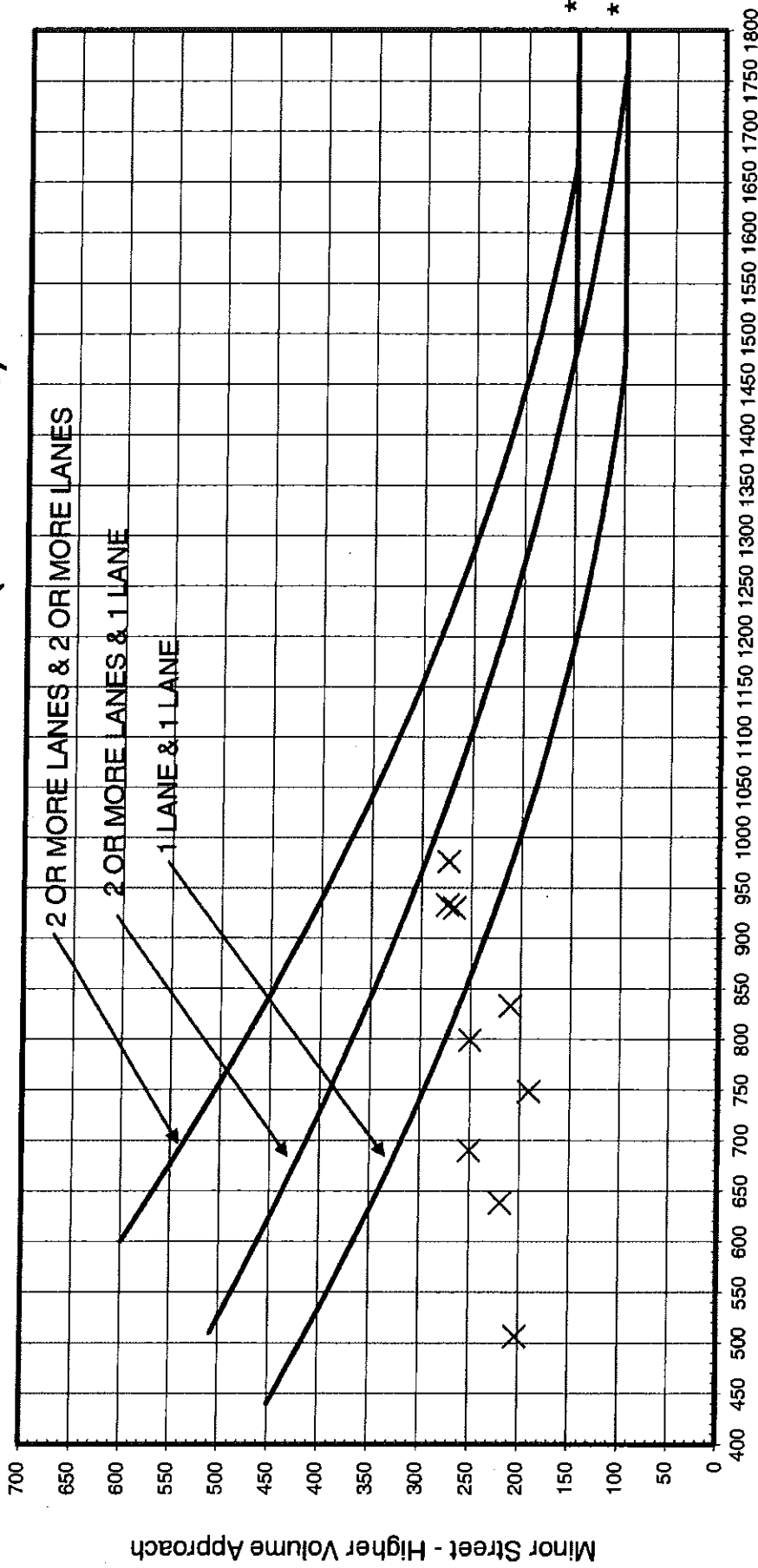
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	May 19, 2011	7:00 AM	10:00 AM	
Thursday	May 19, 2011	11:00 AM	2:00 PM	
Thursday	May 19, 2011	3:00 PM	6:00 PM	

Major Road = Euclid Ave
 Minor Road = Eddy Rd
 Road Location = Urban

Lanes 2
 Warrant Met? YES

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Minor Street - Higher Volume Approach

Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Thursday	May 19, 2011	7:00 AM	10:00 AM	
Thursday	May 19, 2011	11:00 AM	2:00 PM	
Thursday	May 19, 2011	3:00 PM	6:00 PM	



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15-Minute Count Data

Euclid Ave and Rosalind Ave and Emily St

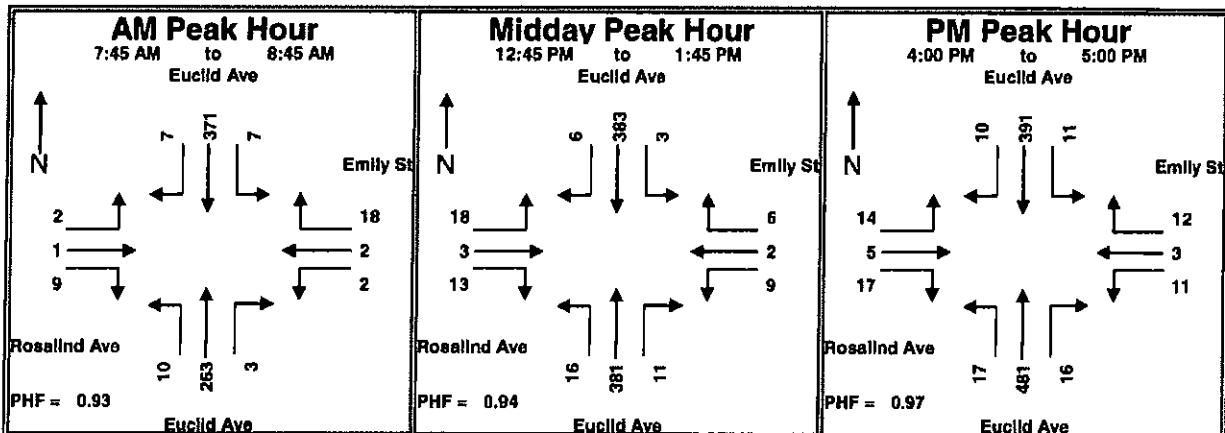


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
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Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.912	Wednesday	May 25, 2011	7:00 AM	10:00 AM	
0.912	Wednesday	May 25, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 25, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Rosalind Ave Eastbound				Emily St Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	129	3105	74	25	55	3156	61	23	8580	100	20	130	2	46	18	65	0	379	8959
ADT	200	4816	115	39	85	4895	95	36	10208	155	31	202	3	71	28	101	0	588	10794
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 1%				Percent Trucks = 0%					



Notes:

15-Minute Count Data

Euclid Ped and Rosalind Ped and Emily Ped

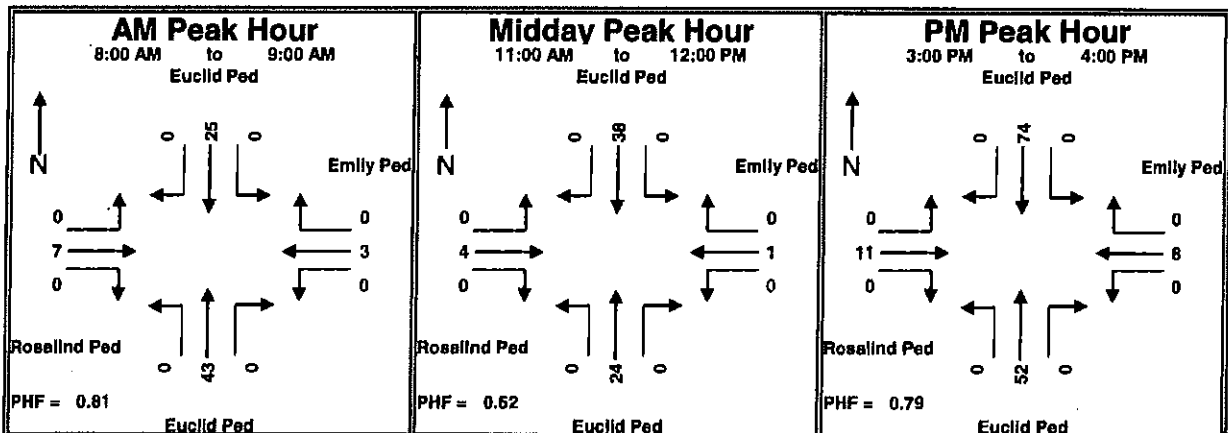


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Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
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0.912	Wednesday	May 25, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 25, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Rosalind Ped Eastbound				Emily Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	319	0	0	0	291	0	0	610	0	61	0	0	0	33	0	0	94	704
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	495	0	0	0	451	0	0	946	0	95	0	0	0	51	0	0	146	1092



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Rosalind Ave and Emily St
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 2 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____ SET: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____ CKD BY: _____

OTHER (DESCRIBE):
 ADDITIONAL ITEMS ATTACHED
 SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

COND. NO. OF LANE	ADJUSTED HOURLY VOLUMES				WARRANT #1						WARRANT #2		WARRANT #3	
	MINOR ST		MINOR ST		80%		100%		80%		FOUR HOUR		PEAK HOUR	
	2-WAY	1-WAY	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	#2	#3
NORM 1	X				500	150	400	120	750	75	600	60		
NORM 2+	X				600	200	480	160	900	100	720	80		
70% 1					350	105	280	84	525	53	420	42		
70% 2+					420	140	336	112	630	70	504	56		
MID-1AM														
1AM-2AM														
2AM-3AM														
3AM-4AM														
4AM-5AM														
5AM-6AM														
6AM-7AM														
7AM-8AM														
8AM-9AM														
9AM-10AM														
10AM-11AM														
11AM-NOON														
NOON-1PM														
1PM-2PM														
2PM-3PM														
3PM-4PM														
4PM-5PM														
5PM-6PM														
6PM-7PM														
7PM-8PM														
8PM-9PM														
9PM-10PM														
10PM-11PM														
11PM-MID														
HOURS MET														
WARRANT SATISFIED?														
0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO														

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? YES
 Gap analysis made during period from _____ 3:00 PM to _____ 4:00 PM
 Number of vehicles during analysis period: _____ 912
 Pedestrian crossing time (t): _____ 18 sec
 Number of gaps greater than (t) during period: _____ 12
 Approximate vehicular speed: _____ 20-25 mph
 Number of children crossing during period: _____ 21
 Warrant Satisfied? YES

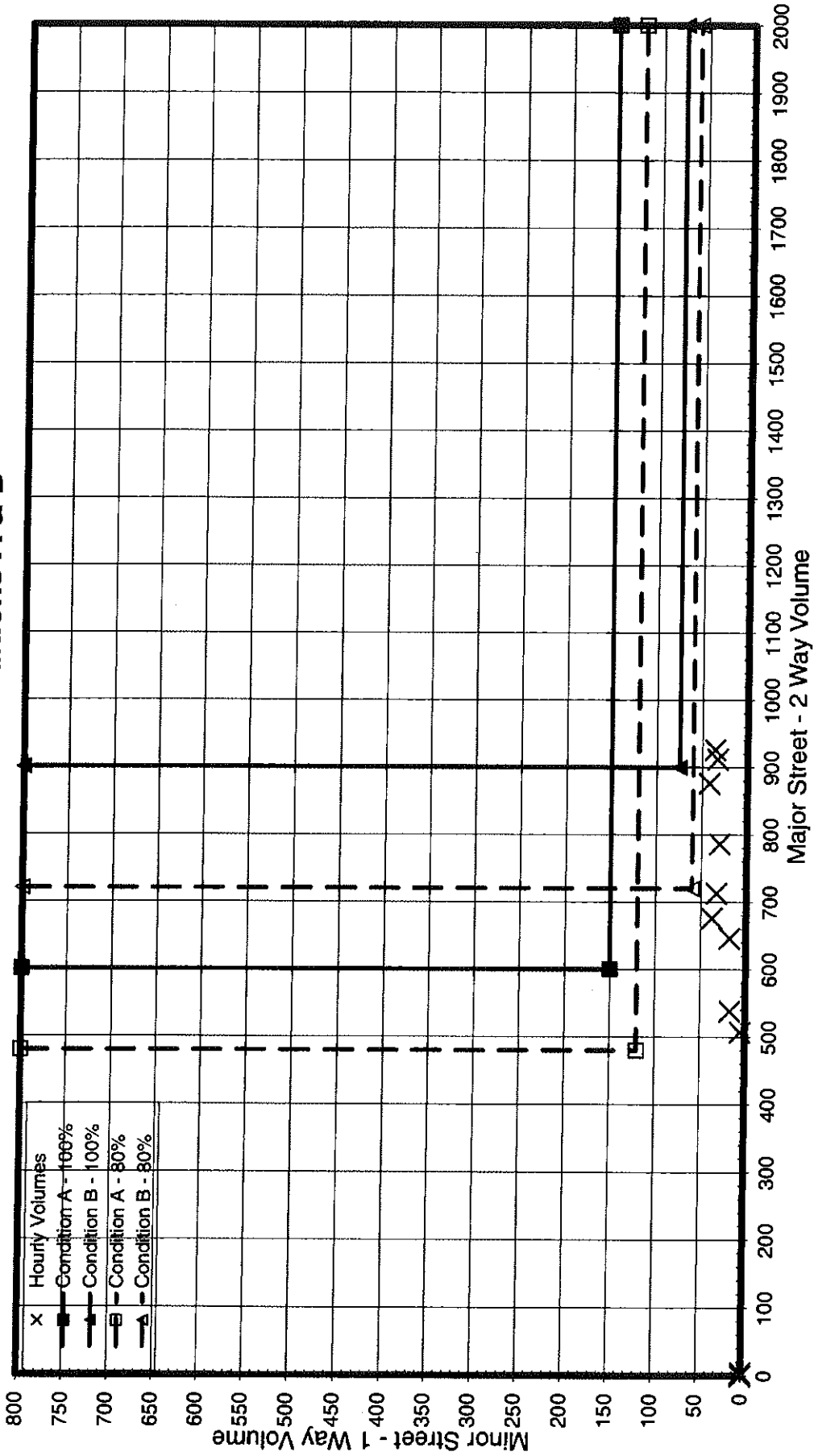
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? NO

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

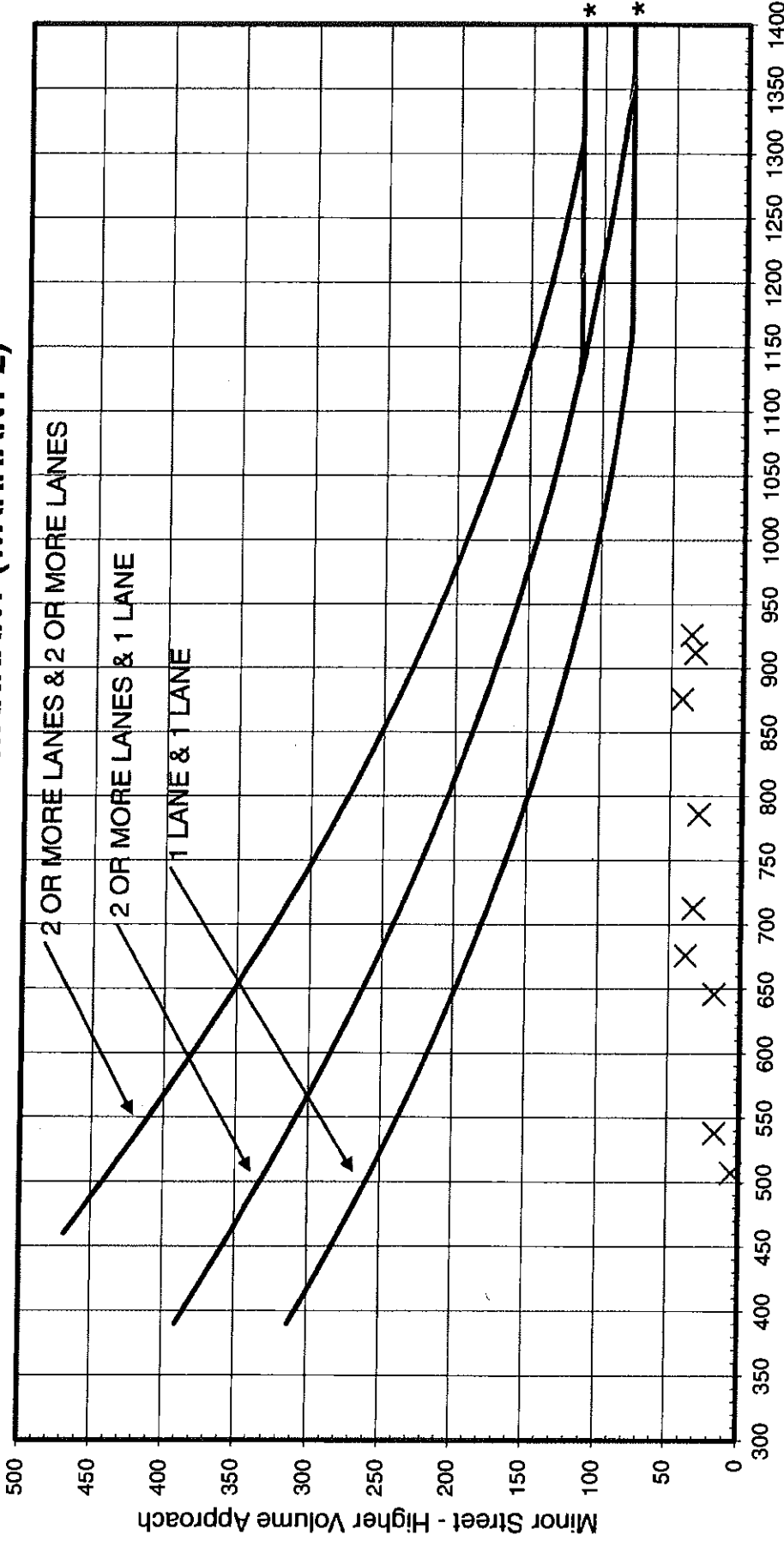


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Wednesday	May 25, 2011	7:00 AM	10:00 AM	
Wednesday	May 25, 2011	11:00 AM	2:00 PM	
Wednesday	May 25, 2011	3:00 PM	6:00 PM	

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Rosalind Ave and Emily St		1
Road Location =	Urban		
Condition A (100%) =	0 Hours Meet	Warrant Met?	No
Condition B (100%) =	0 Hours Meet		No
Condition A (80%) =	0 Hours Meet		No
Condition B (80%) =	0 Hours Meet		No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Euclid Ave Lanes 2
 Minor Road = Rosalind Ave and Emily St 1
 Road Location = Urban

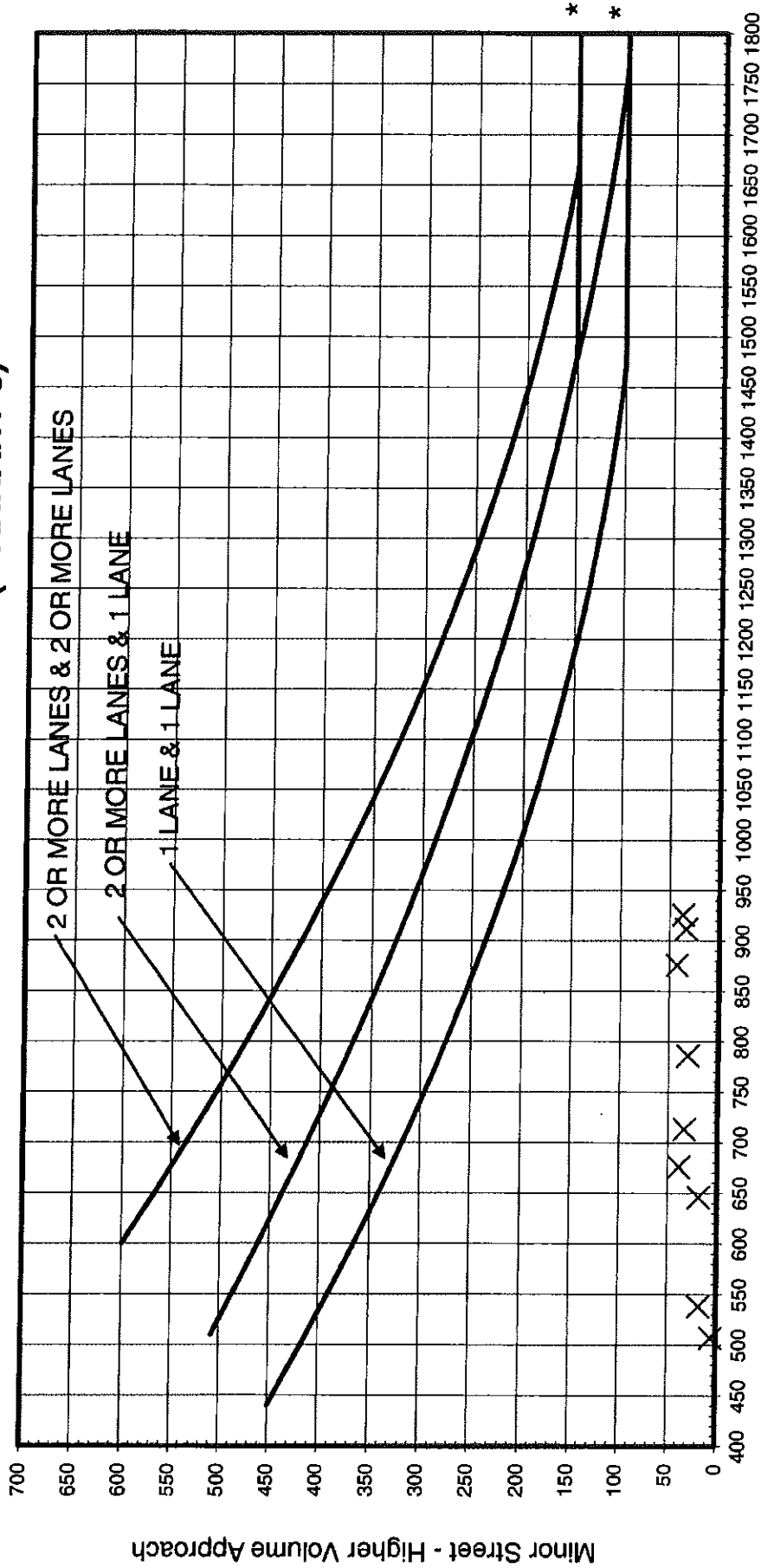
Warrant 2 (Urban) = 0 Hours Meet NO Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	May 25, 2011	7:00 AM	10:00 AM	
Wednesday	May 25, 2011	11:00 AM	2:00 PM	
Wednesday	May 25, 2011	3:00 PM	6:00 PM	



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PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road =
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	May 25, 2011	7:00 AM	10:00 AM	
Wednesday	May 25, 2011	11:00 AM	2:00 PM	
Wednesday	May 25, 2011	3:00 PM	6:00 PM	



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15-Minute Count Data

Euclid Ave and Wheeler (Fay) St and Forest Hills Blvd

E. Cleveland, Ohio



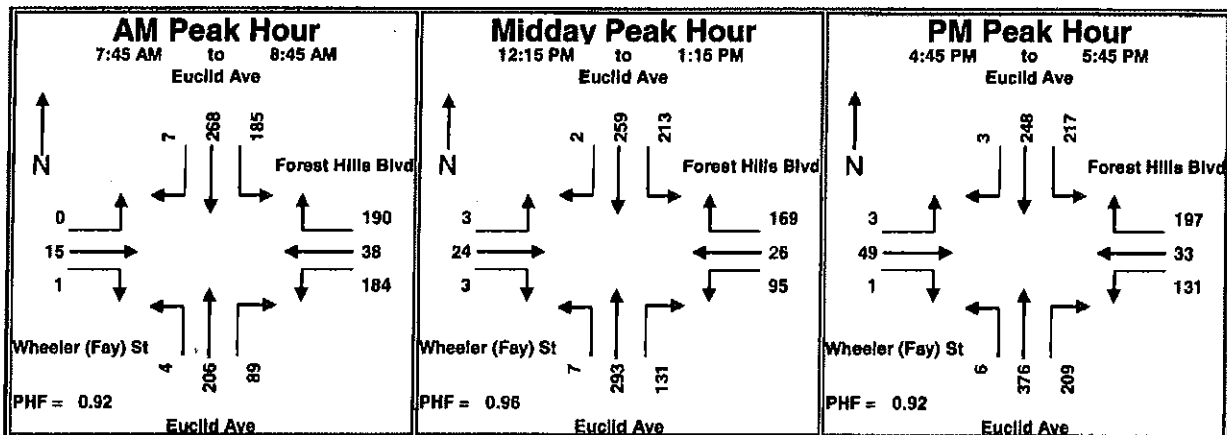
564 White Pond Drive
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Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 7, 2011	7:00 AM	10:00 AM	Rain
0.921	Tuesday	June 7, 2011	11:00 AM	2:00 PM	Sunny
0.921	Tuesday	June 7, 2011	3:00 PM	6:00 PM	Sunny

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Wheeler (Fay) St Eastbound				Forest Hills Blvd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	54	2499	1102	24	1780	2103	35	23	7553	10	260	17	0	1035	254	1480	5	3056	10609
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	85	3914	1726	38	2757	3294	55	36	11830	16	407	27	0	1621	398	2318	8	4787	16617



Notes:

Euclid/FHB/Wheeler
Bus Counts
June 7, 2011

File Name : 2305-6-7-20
Site Code : 00000000
Start Date : 06/07/2011
Page No : 1

Groups Printed- Bank 2

Start Time Factor	From North				From East				From South				From West				Int. To
	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	
07:00 AM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
07:15 AM	0	4	1	0	0	0	1	0	1	5	0	0	0	0	0	0	0
07:30 AM	0	4	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0
07:45 AM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
Total	0	14	1	0	0	0	2	0	1	13	0	0	0	0	0	0	0
08:00 AM	0	6	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
08:15 AM	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
08:30 AM	0	2	2	0	0	0	1	0	0	5	0	0	0	0	0	0	0
08:45 AM	0	4	1	0	0	0	0	0	0	7	0	0	0	0	0	0	0
Total	0	13	3	0	0	0	1	0	0	16	1	0	0	0	0	0	0
09:00 AM	0	3	0	0	1	1	0	0	1	4	0	0	0	0	0	0	0
09:15 AM	0	2	1	0	1	0	0	0	0	4	0	0	0	0	0	0	0
09:30 AM	0	3	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0
09:45 AM	0	2	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0
Total	0	10	1	0	2	1	2	0	1	16	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	1	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
11:15 AM	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
11:30 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
11:45 AM	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
Total	0	8	0	0	0	0	0	0	1	9	0	0	0	0	0	0	1
12:00 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:15 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:30 PM	0	1	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0
12:45 PM	0	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
Total	0	6	0	0	0	0	1	0	1	5	0	0	0	0	0	0	1
01:00 PM	0	2	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0
01:15 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
01:30 PM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total	0	5	0	0	1	0	0	0	0	9	0	0	0	0	0	0	1
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	2	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0
03:15 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
03:30 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
03:45 PM	0	1	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0
Total	0	7	1	0	0	0	1	0	1	7	0	0	0	0	0	0	1
04:00 PM	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
04:15 PM	0	3	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0
04:30 PM	0	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
4:45 PM	0	3	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0
Total	0	12	0	0	0	0	3	0	0	9	0	0	0	0	0	0	2

15-Minute Count Data

Euclid Ped and Wheeler Ped and Forest Hills Ped

E. Cleveland, Ohio

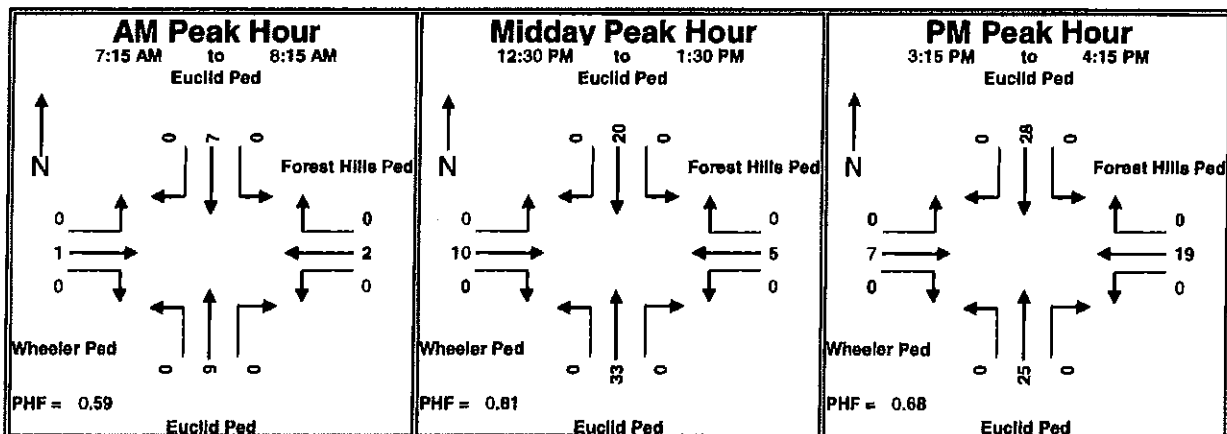


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0.921	Tuesday	June 7, 2011	11:00 AM	2:00 PM	Sunny
0.921	Tuesday	June 7, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Wheeler Ped Eastbound				Forest Hills Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	154	0	0	0	154	0	0	308	0	36	0	0	0	48	0	0	84	392
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	241	0	0	0	241	0	0	482	0	56	0	0	0	75	0	0	132	614



Notes:



SIGNAL WARRANT

INTERSECTION: Euclid Ave. and Wheeler (East) St. and Forest Hills Blvd
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N:2 S:2 E:1 W:1
 PRESENTLY SIGNALIZED? Yes _____ NO _____ DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 RTE: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED

- SKETCH OR DRAWING
- VEHICULAR VOLUME COUNT
- TRAFFIC PROJECTION
- ACCIDENT DATA
- PEDESTRIAN COUNT
- GAP ANALYSIS
- SPEED DATA
- DELAY ANALYSIS
- TIME/SPACE DIAGRAM
- GROUND PHOTOGRAPHS
- AERIAL PHOTOGRAPHS
- DOCUMENTATION/EXPLANATION

OTHER (DESCRIBE):

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT		
	MINOR ST		80%		100%		80%		100%		80%		FOUR HOUR		PEAK HOUR		
	1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	#2	#3	#2	#3	
NORM 1	X		500	150	400	120	750	75	600	60							
NORM 2+		X	600	200	480	160	900	100	720	80							
70% 2+			350	105	280	84	525	53	420	42							
MID-1AM	0	0	420	140	336	112	630	70	504	56							
1AM-2AM	0	0															
2AM-3AM	0	0															
3AM-4AM	0	0															
4AM-5AM	0	0															
5AM-6AM	0	0															
6AM-7AM	0	0															
7AM-8AM	592	15		X	X	X		X	X	X							
8AM-9AM	739	13	X	X	X	X		X	X	X							
9AM-10AM	641	16	X	X	X	X		X	X	X							
10AM-11AM	0	0															
11AM-NOON	776	28	X	X	X	X		X	X	X							
NOON-1PM	881	35	X	X	X	X		X	X	X							
1PM-2PM	908	31	X	X	X	X		X	X	X							
2PM-3PM	11	0															
3PM-4PM	950	48	X	X	X	X		X	X	X							
4PM-5PM	1037	57	X	X	X	X		X	X	X							
5PM-6PM	1029	44	X	X	X	X		X	X	X							
6PM-7PM	0	0	0	0	0	0		0	0	0							
7PM-8PM	0	0	0	0	0	0		0	0	0							
8PM-9PM	0	0	0	0	0	0		0	0	0							
9PM-10PM	0	0	0	0	0	0		0	0	0							
10PM-11PM	0	0	0	0	0	0		0	0	0							
11PM-MID	0	0	0	0	0	0		0	0	0							
HOURS MET			8	9	4	7											
WARRANT SATISFIED?			YES	YES	NO	NO											

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

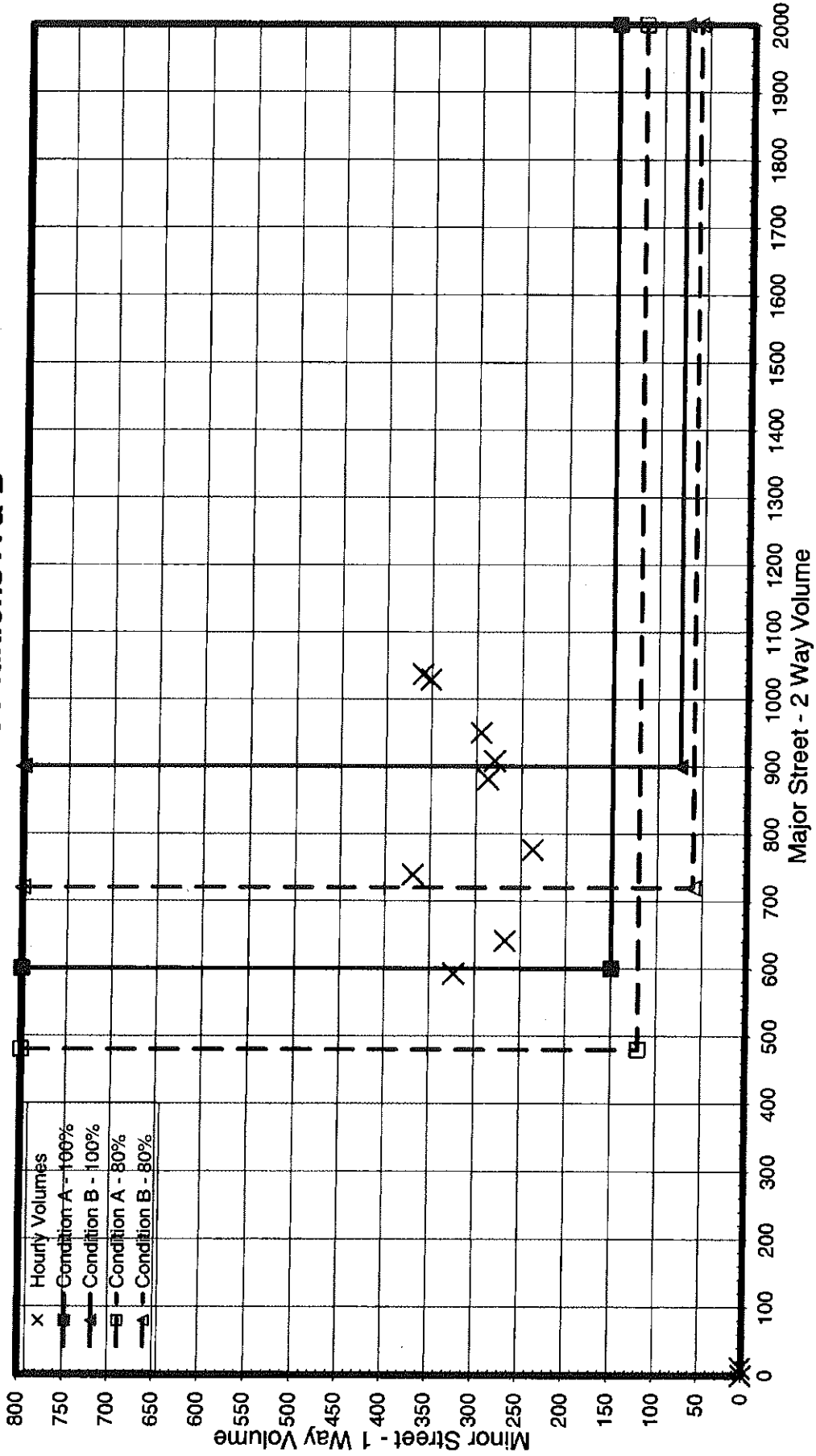
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ TWO-WAY

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets characteristic requirements? _____
 Warrant Satisfied? _____ NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

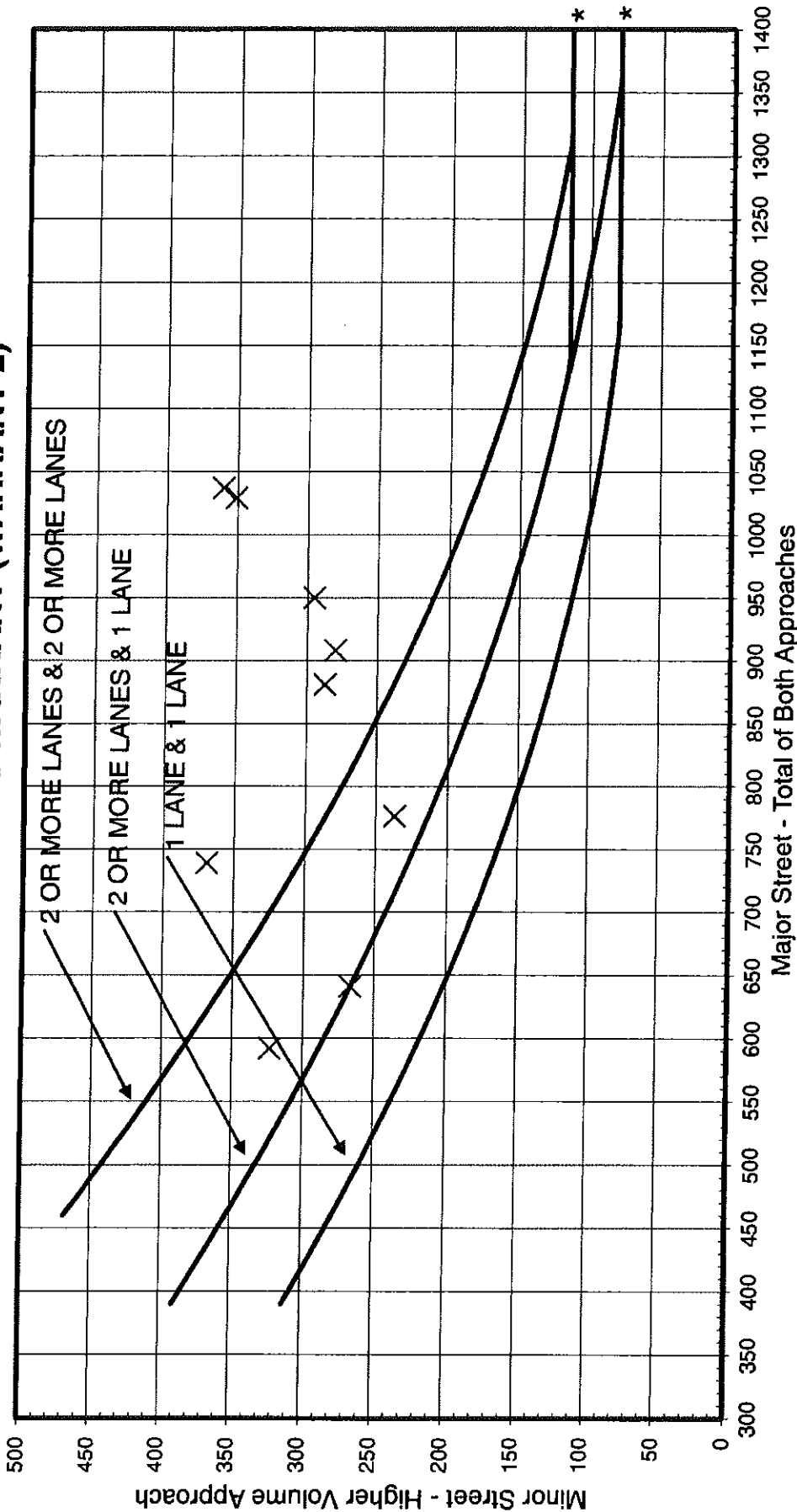
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 7, 2011	7:00 AM	10:00 AM	Rain
Tuesday	June 7, 2011	11:00 AM	2:00 PM	Sunny
Tuesday	June 7, 2011	3:00 PM	6:00 PM	Sunny

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Wheeler (Fay) St and Forest		1
Road Location =	Urban		
Warrant Meet?			
Condition A (100%) =	8 Hours Meet	Yes	
Condition B (100%) =	4 Hours Meet	No	
Condition A (80%) =	9 Hours Meet	Yes	
Condition B (80%) =	7 Hours Meet	No	

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



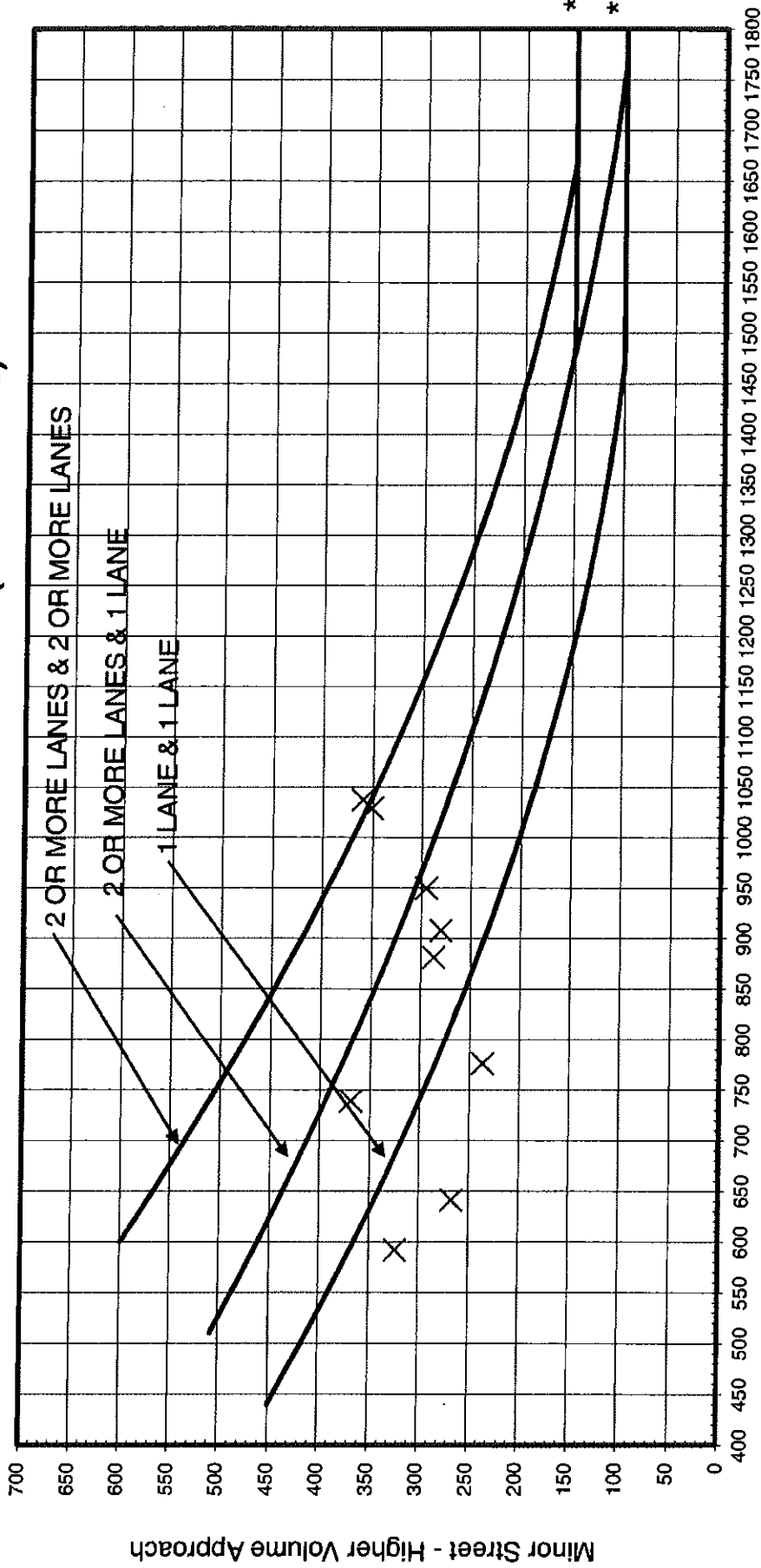
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 7, 2011	7:00 AM	10:00 AM	Rain
Tuesday	June 7, 2011	11:00 AM	2:00 PM	Sunny
Tuesday	June 7, 2011	3:00 PM	6:00 PM	Sunny

Major Road = Lanes
 Minor Road =
 Road Location =

Warrant 2 (Urban) = Warrant Met? YES

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Euclid Ave Lanes 2
 Minor Road = Wheeler (Fay) Stand Forest
 Road Location = Urban
 Warrant 3 (Urban) = 2 Hours Meet Warrant Met?
YES

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 7, 2011	7:00 AM	10:00 AM	Rain
Tuesday	June 7, 2011	11:00 AM	2:00 PM	Sunny
Tuesday	June 7, 2011	3:00 PM	6:00 PM	Sunny

URS
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15-Minute Count Data

Euclid Ave and Hillsboro Rd

E. Cleveland, Ohio

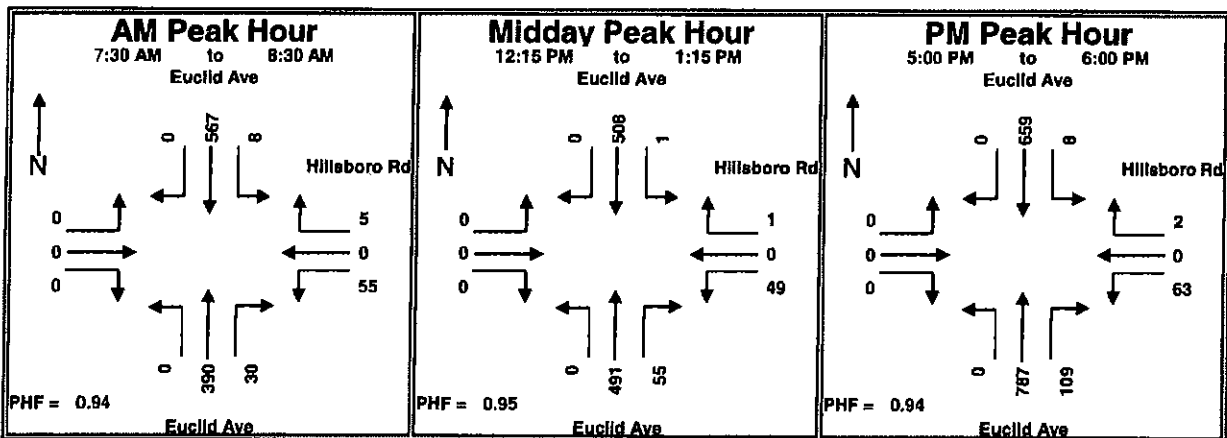


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Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 21, 2011	7:00 AM	10:00 AM	Warm
0.921	Tuesday	June 21, 2011	11:00 AM	2:00 PM	Sunny
0.921	Tuesday	June 21, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Esetbound				Hillsboro Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	12	4624	490	32	47	4722	0	20	9895	0	0	0	0	461	2	27	1	490	10385
	Percent Trucks = 1%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	19	7243	768	50	74	7396	0	31	15499	0	0	0	0	722	3	42	2	768	16266



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Hillside Rd
 LOCATION IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N:2 S:2 E:1 W:0
 PRESENTLY SIGNALIZED? Yes _____ No _____
 MAINTAINING AGENCY: _____

CO: Cuyahoga
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

OTHER (DESCRIBE):
 ADDITIONAL ITEMS ATTACHED
 SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

COND. NO.	NO. OF LANES	ADJUSTED HOURLY VOLUMES				WARRANT #1						WARRANT #2		WARRANT #3			
		MAJOR ST		MINOR ST		CONDITION A			CONDITION B			FOUR HOUR	PEAK HOUR				
		2-WAY	1-WAY	2-WAY	1-WAY	100%	80%	100%	80%	MAJOR	MINOR			MAJOR	MINOR		
NORM	2+	X				500	150	400	120	750	75	600	60				
	1					600	200	480	160	900	100	720	80				
70%	2+					350	105	280	84	525	53	420	42				
						420	140	336	112	630	70	504	56				
MID-1AM	0	0	0	0													
1AM-2AM	0	0	0	0													
2AM-3AM	0	0	0	0													
3AM-4AM	0	0	0	0													
4AM-5AM	0	0	0	0													
5AM-6AM	0	0	0	0													
6AM-7AM	0	0	0	0													
7AM-8AM	863	0	35	0				X									
8AM-9AM	968	0	73	0				X		X							
9AM-10AM	911	0	49	0				X		X							
10AM-11AM	0	0	0	0				X		X							
11AM-NOON	896	0	43	0				X		X							
NOON-1PM	1002	0	43	0				X		X							
1PM-2PM	1023	0	49	0				X		X							
2PM-3PM	0	0	0	0				X		X							
3PM-4PM	1225	0	75	0				X		X							
4PM-5PM	1454	0	58	0				X		X							
5PM-6PM	1563	0	65	0				X		X							
6PM-7PM	0	0	0	0													
7PM-8PM	0	0	0	0													
8PM-9PM	0	0	0	0													
9PM-10PM	0	0	0	0													
10PM-11PM	0	0	0	0													
11PM-MID	0	0	0	0													
HOURS MET		0	0	0				0	0	1	3	0	0				
WARRANT SATISFIED?		NO	NO	NO				NO	NO	NO	NO	NO	NO				

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level:..... NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians:.....
 Hours with 190 or more pedestrians:.....
 Pedestrian crossing time (t):.....
 Number of gaps greater than (t) during period:.....
 Warrant Satisfied?.....

WARRANT #5 (SCHOOL CROSSING)
 On approved school route?..... NO
 Gap analysis made during period from:..... to
 Number of vehicles during analysis period:.....
 Pedestrian crossing time (t):.....
 Number of gaps greater than (t) during period:.....
 Approximate vehicular speed:.....
 Number of children crossing during period:.....
 Warrant Satisfied?..... NO

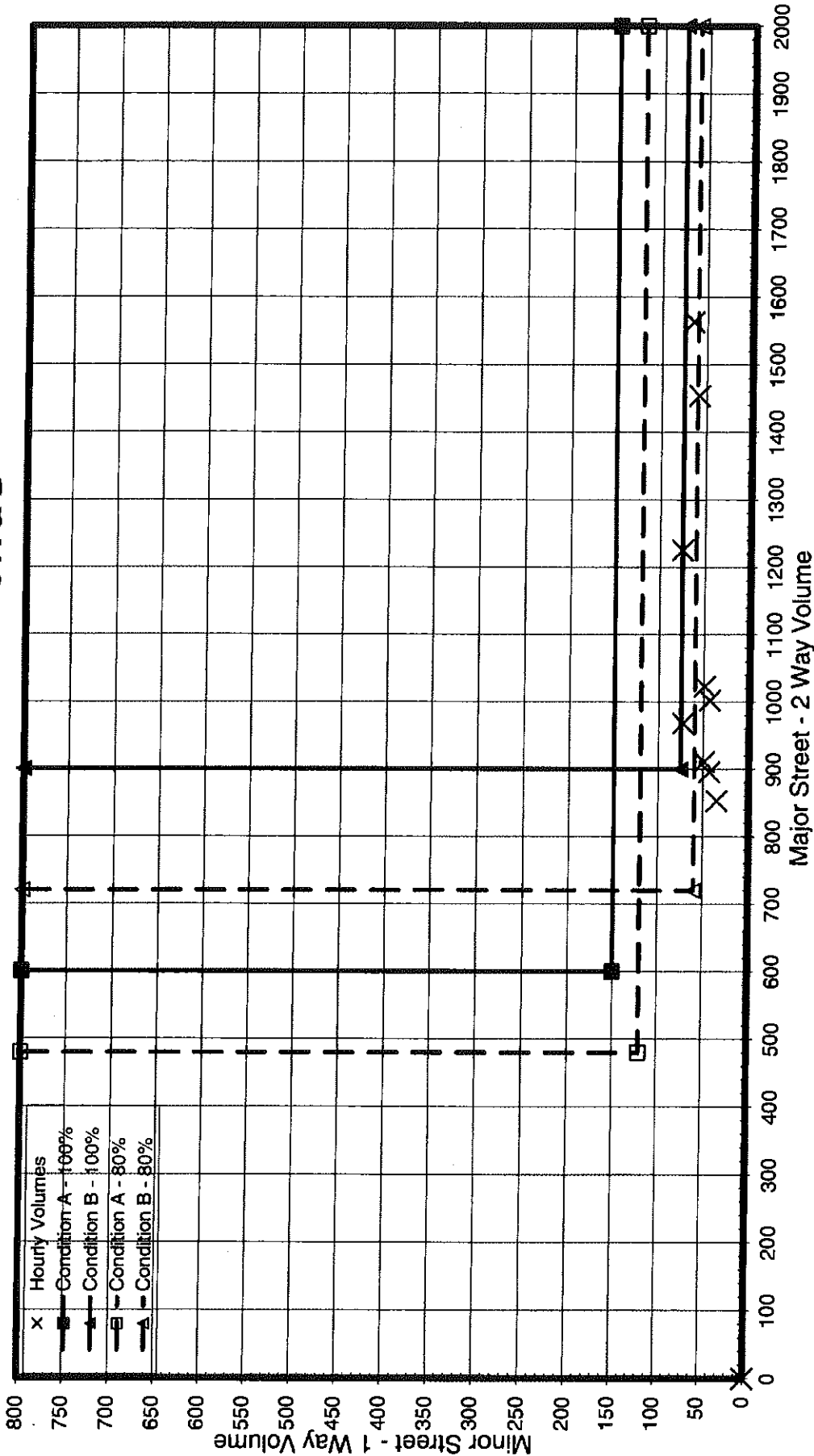
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is:..... TWO-WAY
 Distance to nearest signal in each direction on major street:.....
 Time space diagram (attached) shows that this location can be implemented into a system:.....
 Warrant Satisfied?..... NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures:.....
 Number of accidents per year of a type which could be prevented by signalization:.....
 80% of warrant #1 or #2 satisfied:.....
 Will signalization disrupt progressive movement?.....
 Warrant Satisfied?..... NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes:.....
 At least 1000 V.P.H. during weekday peak hour:.....
 5-Year projection meets Warrant 1, 2, or 3:.....
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday:.....
 Meets Characteristic requirements?.....
 Warrant Satisfied?..... NO

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B



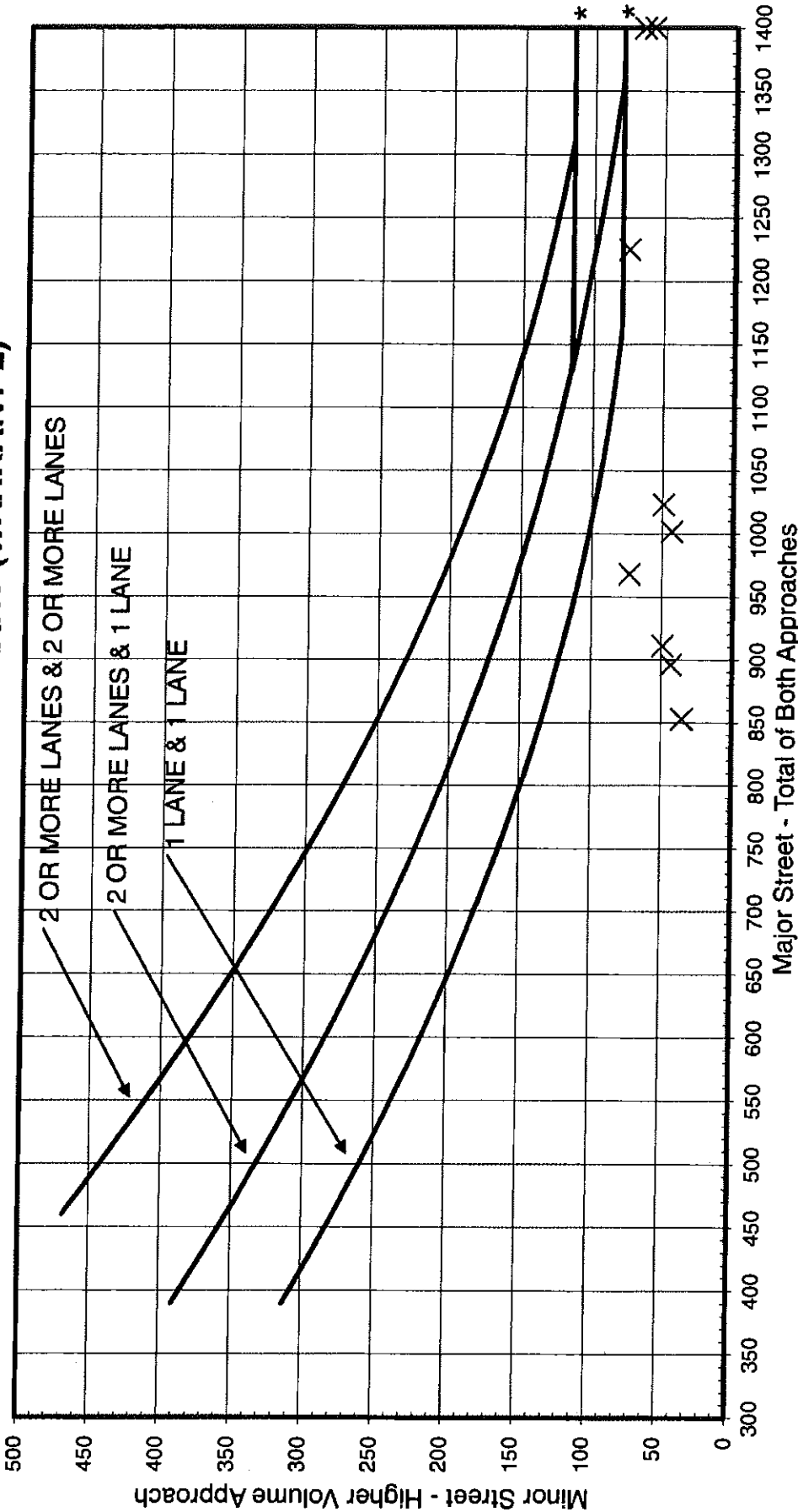
Major Road =	Euclid Ave	Lanes	2
Minor Road =	Hillsboro Rd	Lanes	1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Meet	No	
Condition B (100%) =	1 Hours Meet	No	
Condition A (80%) =	0 Hours Meet	No	
Condition B (80%) =	3 Hours Meet	No	

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 21, 2011	7:00 AM	10:00 AM	Warm
Tuesday	June 21, 2011	11:00 AM	2:00 PM	Sunny
Tuesday	June 21, 2011	3:00 PM	6:00 PM	Sunny

URS

564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Hillsboro Rd		1
Road Location =	Urban		

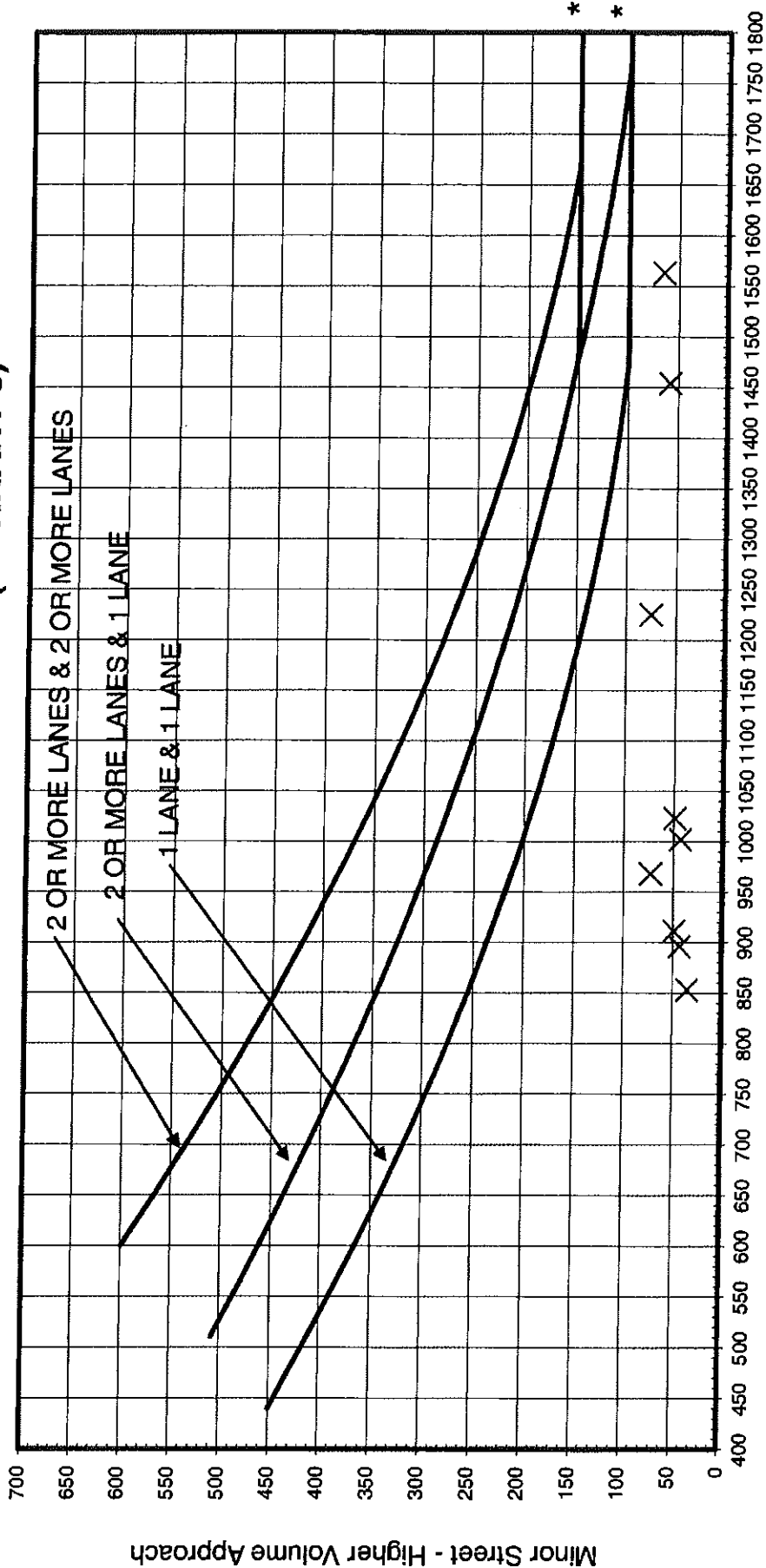
Warrant 2 (Urban) = 0 Hours Meet NO Warrant Met?

Day of Week	Date & Year	From	To	Weather
Tuesday	June 21, 2011	7:00 AM	10:00 AM	Warm
Tuesday	June 21, 2011	11:00 AM	2:00 PM	Sunny
Tuesday	June 21, 2011	3:00 PM	6:00 PM	Sunny



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PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Euclid Ave
 Minor Road = Hillsboro Rd
 Road Location = Urban

Lanes: 2
 1

Warrant 3 (Urban) = 0 Hours Meet | Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Tuesday	June 21, 2011	7:00 AM	10:00 AM	Warm
Tuesday	June 21, 2011	11:00 AM	2:00 PM	Sunny
Tuesday	June 21, 2011	3:00 PM	6:00 PM	Sunny

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data

Lakeview Rd and Euclid Ave

E. Cleveland, Ohio



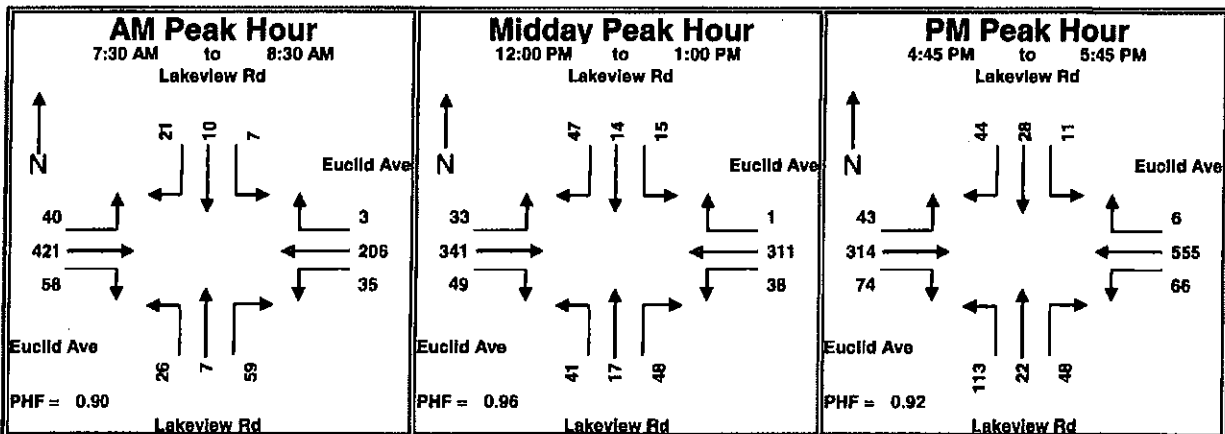
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 14, 2011	7:00 AM	10:00 AM	
0.921	Tuesday	June 14, 2011	11:00 AM	2:00 PM	
0.921	Tuesday	June 14, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70

Intersection ID: 1

Start Time	Lakeview Rd Northbound				Lakeview Rd Southbound				Total South	Euclid Ave Eastbound				Euclid Ave Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	555	126	387	10	100	153	327	3	1648	317	2985	489	60	359	2923	30	63	7103	8751
ADT	869	197	606	16	157	240	512	5	2581	497	4675	766	94	562	4578	47	99	11126	13707
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 2%				Percent Trucks = 2%					



Notes:

Euclid/Lakeview
Bus Counts
June 14, 2011

File Name : 2056-6-14-2011 m
Site Code : 06142011
Start Date : 06/14/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	2	1	0	0	0	0	0	0	3	0	0	
07:15 AM	0	0	0	0	0	2	0	0	1	0	0	0	0	3	0	0	
07:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	
07:45 AM	0	0	0	0	0	2	1	0	1	0	0	0	0	1	0	0	
Total	0	0	0	0	0	7	2	0	2	0	0	0	0	7	1	0	1
08:00 AM	0	0	0	0	0	2	0	0	1	0	0	0	0	1	0	0	
08:15 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	
08:30 AM	0	0	0	0	0	4	1	0	1	0	0	0	0	2	0	0	
08:45 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	10	1	0	2	0	0	0	0	5	0	0	1
09:00 AM	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	
09:15 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	
09:30 AM	1	2	0	0	0	4	0	0	1	1	1	0	0	2	1	0	1
09:45 AM	0	0	0	0	0	2	1	0	0	0	0	0	0	6	0	0	
Total	1	2	0	0	0	11	2	0	1	1	1	0	0	8	1	0	2
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	1	0	0	0	0	1	0	0	2	0	0	
11:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	
11:30 AM	0	0	0	0	0	5	0	0	1	0	0	0	0	2	0	0	
11:45 AM	0	0	0	0	0	3	1	0	0	0	1	0	0	3	0	0	
Total	0	0	0	0	0	10	1	0	1	0	2	0	0	11	0	0	2
12:00 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	
12:15 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	4	0	0	
12:30 PM	0	0	0	0	0	2	0	0	1	0	0	0	0	1	0	0	
12:45 PM	0	0	0	0	0	3	1	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	10	1	0	1	0	0	0	0	8	0	0	2
01:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
01:15 PM	0	0	0	0	0	4	0	0	0	0	0	0	0	3	0	0	
01:30 PM	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	
01:45 PM	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	10	1	0	0	0	0	0	0	5	0	0	1
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	2	0	0	1	0	0	0	0	3	0	0	
03:15 PM	0	0	0	0	0	3	0	0	0	0	0	0	1	1	0	0	
03:30 PM	0	0	0	0	0	7	0	0	0	0	0	0	0	5	0	0	1
03:45 PM	0	0	0	0	0	5	1	0	1	0	0	0	0	2	0	0	
Total	0	0	0	0	0	17	1	0	2	0	0	0	1	11	0	0	3
04:00 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	4	0	0	
04:15 PM	0	0	0	0	0	3	1	0	1	0	0	0	0	2	0	0	
04:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
04:45 PM	0	0	0	0	0	4	0	0	0	0	0	0	0	3	0	0	
Total	0	0	0	0	0	11	1	0	1	0	0	0	0	10	0	0	2

SIGNAL WARRANT

INTERSECTION: Lakeview Rd and Euclid Ave
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 1 E: 2 W: 2
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SEC'T: _____
 OKD BY: _____



OTHER (DESCRIBE):

ADDITIONAL ITEMS ATTACHED
 SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. **NO**

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ **NO**

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ **NO**

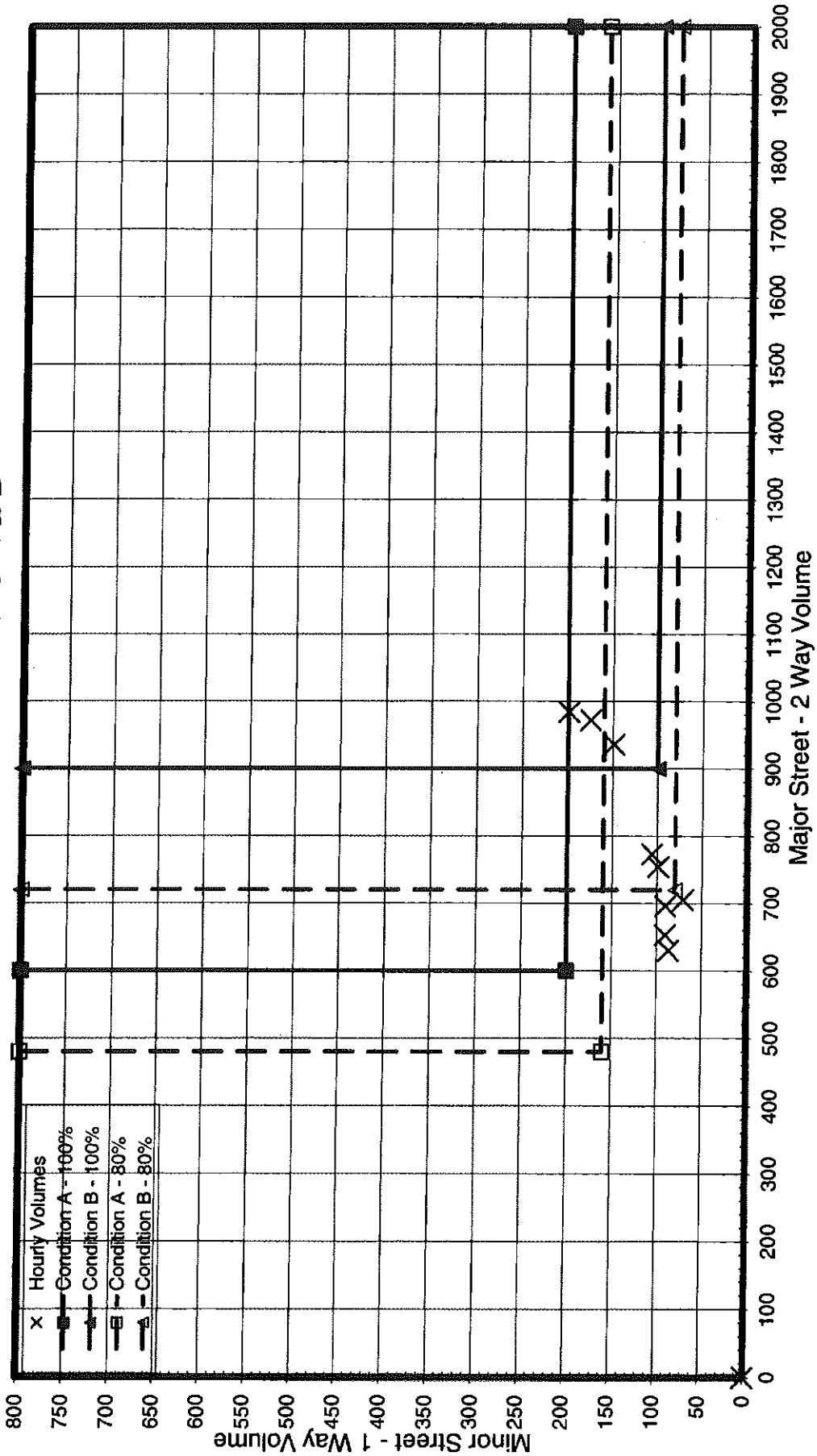
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ **NO**

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ **NO**

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES				WARRANT #1						WARRANT #2		WARRANT #3	
	MAJOR 2-WAY	MINOR 1-WAY	MINOR 1-WAY	MINOR ST	100%		80%		100%		80%			PEAK HOUR
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	FOUR HOUR	NO
NORM 1	600	200	400	150	500	150	400	120	750	75	600	60		
NORM 2+	600	200	480	160	600	200	480	160	900	100	720	80		
70% 2+	350	105	280	84	420	140	336	112	630	70	504	56		
MID-1AM	0	0	0	0										
1AM-2AM	0	0	0	0										
2AM-3AM	0	0	0	0										
3AM-4AM	0	0	0	0										
4AM-5AM	0	0	0	0										
5AM-6AM	0	0	0	0										
6AM-7AM	0	0	0	0										
7AM-8AM	663	91	40	0	X									
8AM-9AM	705	71	32	0	X									
9AM-10AM	630	87	51	0	X									
10AM-11AM	0	0	0	0										
11AM-NOON	696	91	64	0	X									
NOON-1PM	773	106	76	0	X									
1PM-2PM	754	99	64	0	X									
2PM-3PM	0	0	0	0										
3PM-4PM	936	149	85	0	X									
4PM-5PM	984	189	75	0	X									
5PM-6PM	972	175	98	0	X									
6PM-7PM	0	0	0	0										
7PM-8PM	0	0	0	0										
8PM-9PM	0	0	0	0										
9PM-10PM	0	0	0	0										
10PM-11PM	0	0	0	0										
11PM-MID	0	0	0	0										
HOURS MET					0		2		3		5		1	0
WARRANT SATISFIED?					NO		NO		NO		NO		NO	NO

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

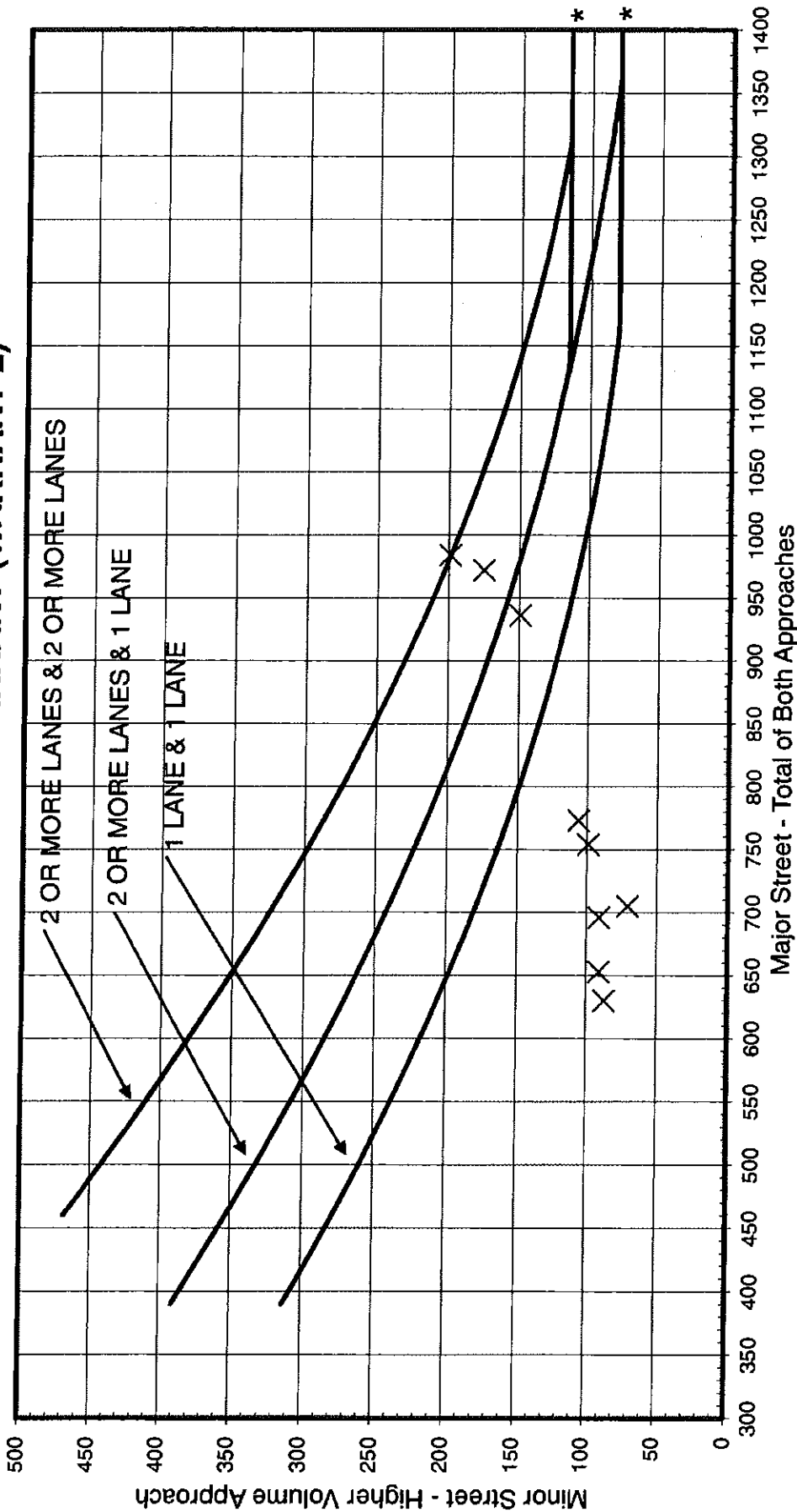


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 14, 2011	7:00 AM	10:00 AM	
Tuesday	June 14, 2011	11:00 AM	2:00 PM	
Tuesday	June 14, 2011	3:00 PM	6:00 PM	

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Lakeview Rd	Lanes	2
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Meet	No	
Condition B (100%) =	3 Hours Meet	No	
Condition A (80%) =	2 Hours Meet	No	
Condition B (80%) =	5 Hours Meet	No	

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



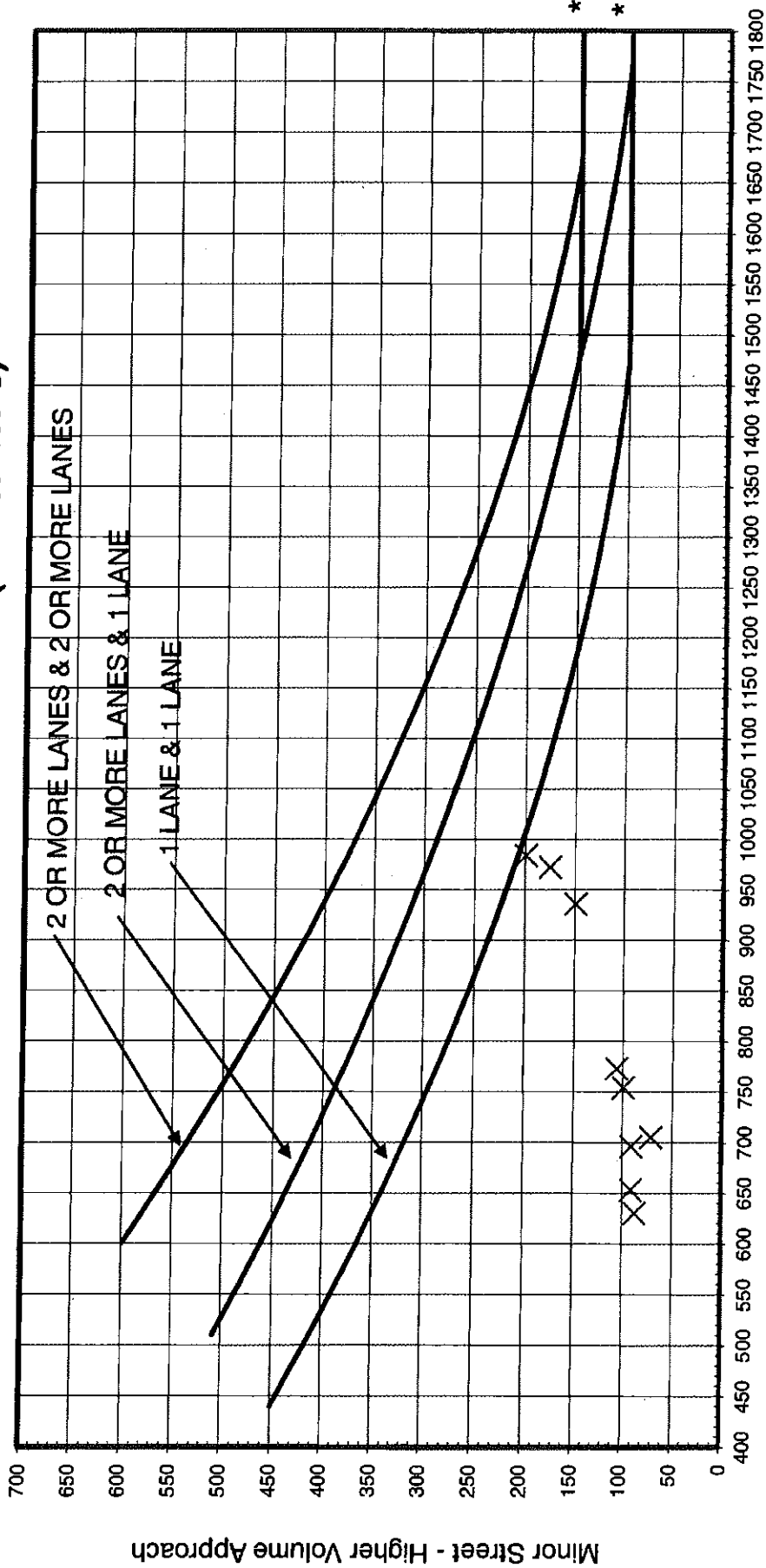
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		From	To	
Tuesday	June 14, 2011	7:00 AM	10:00 AM	
Tuesday	June 14, 2011	11:00 AM	2:00 PM	
Tuesday	June 14, 2011	3:00 PM	6:00 PM	

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 2 (Urban) = Hours Meet Warrant Met?

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Lakeview Rd		2
Road Location =	Urban		

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 14, 2011	7:00 AM	10:00 AM	
Tuesday	June 14, 2011	11:00 AM	2:00 PM	
Tuesday	June 14, 2011	3:00 PM	6:00 PM	



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15-Minute Count Data Euclid Ave and Lee Blvd



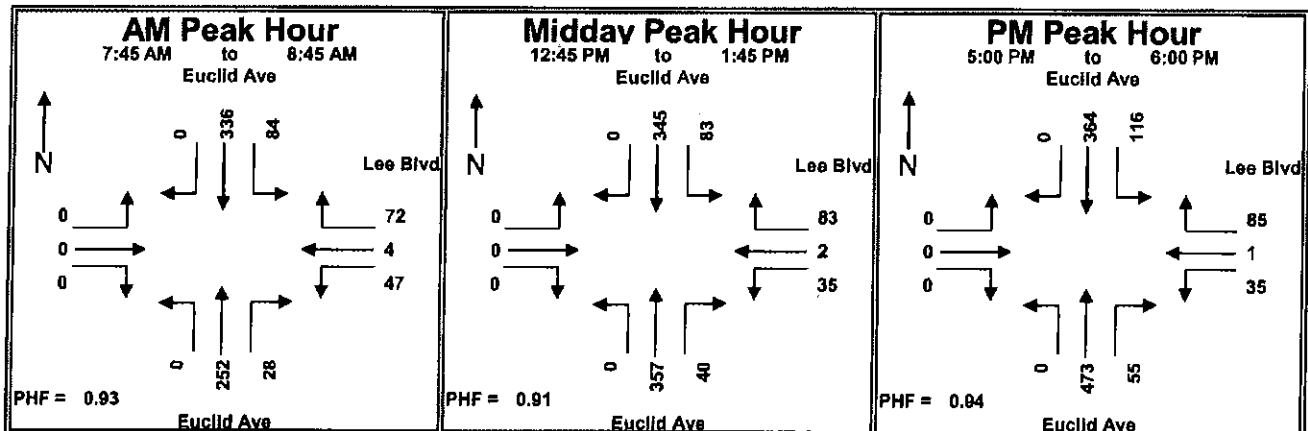
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.884	Thursday	May 19, 2011	7:00 AM	10:00 AM	Clear
0.884	Thursday	May 19, 2011	11:00 AM	2:00 PM	Clear
0.884	Thursday	May 19, 2011	3:00 PM	6:00 PM	Clear

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Eastbound				Lee Blvd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	3025	407	82	751	2974	3	55	7160	0	0	0	0	353	14	663	22	1030	8190
ADT	Percent Trucks = 2%				Percent Trucks = 1%				10801	Percent Trucks = 0%				Percent Trucks = 2%				1554	12355
7:00 AM	0	30	5	3	7	52	0	0	94	0	0	0	0	5	0	10	0	15	109
7:15 AM	0	38	4	2	16	74	0	1	132	0	0	0	0	8	2	15	0	25	157
7:30 AM	0	37	2	2	27	77	0	0	143	0	0	0	0	14	0	10	1	24	167
7:45 AM	0	53	10	1	15	87	0	4	165	0	0	0	0	11	0	18	0	29	194
8:00 AM	0	55	1	1	21	93	0	0	170	0	0	0	0	11	0	14	1	25	195
8:15 AM	0	66	7	1	26	81	0	1	180	0	0	0	0	13	3	25	0	41	221
8:30 AM	0	78	10	4	22	75	0	0	185	0	0	0	0	12	1	15	0	28	213
8:45 AM	0	51	13	3	17	68	0	2	149	0	0	0	0	13	0	17	2	30	179
9:00 AM	0	55	6	3	13	77	0	2	151	0	0	0	0	7	0	16	0	23	174
9:15 AM	0	75	6	3	13	82	0	2	176	0	0	0	0	9	0	11	0	20	196
9:30 AM	0	53	12	3	23	74	0	1	162	0	0	0	0	6	0	21	2	27	189
9:45 AM	0	61	13	0	16	84	0	0	174	0	0	0	0	10	1	23	3	34	208
11:00 AM	0	100	15	8	16	70	3	1	204	0	0	0	0	12	0	14	1	26	230
11:15 AM	0	67	13	4	14	77	0	3	171	0	0	0	0	6	0	7	0	13	184
11:30 AM	0	70	9	1	16	78	0	5	173	0	0	0	0	7	0	12	2	19	192
11:45 AM	0	75	21	4	12	89	0	1	197	0	0	0	0	6	0	14	0	20	217
12:00 PM	0	62	13	4	14	90	0	2	179	0	0	0	0	13	0	20	1	33	212
12:15 PM	0	98	11	2	18	73	0	2	200	0	0	0	0	6	0	15	1	21	221
12:30 PM	0	108	3	2	14	82	0	1	207	0	0	0	0	5	0	18	0	23	230
12:45 PM	0	96	10	2	17	77	0	3	200	0	0	0	0	11	0	26	1	37	237
1:00 PM	0	83	7	3	16	95	0	6	201	0	0	0	0	9	0	12	1	21	222
1:15 PM	0	86	9	1	19	74	0	1	188	0	0	0	0	11	0	27	1	38	226
1:30 PM	0	92	14	2	31	99	0	2	236	0	0	0	0	4	2	18	1	24	260
1:45 PM	0	100	15	8	13	75	0	1	203	0	0	0	0	14	0	16	0	30	233
3:00 PM	0	103	13	3	35	106	0	3	257	0	0	0	0	13	2	20	1	35	292
3:15 PM	0	119	19	1	28	83	0	0	249	0	0	0	0	19	0	20	0	39	288
3:30 PM	0	98	11	1	27	103	0	3	239	0	0	0	0	15	0	29	1	44	283
3:45 PM	0	98	20	2	24	78	0	0	220	0	0	0	0	10	0	26	0	36	256
4:00 PM	0	104	11	3	20	93	0	0	228	0	0	0	0	11	0	20	1	31	259
4:15 PM	0	108	15	1	22	94	0	1	239	0	0	0	0	12	0	18	0	30	269
4:30 PM	0	110	21	0	31	82	0	4	244	0	0	0	0	5	0	32	1	37	281
4:45 PM	0	123	13	0	32	68	0	0	236	0	0	0	0	10	2	19	0	31	267
5:00 PM	0	127	12	1	25	91	0	1	255	0	0	0	0	11	1	16	0	28	283
5:15 PM	0	104	11	1	25	91	0	0	231	0	0	0	0	6	0	19	0	25	256
5:30 PM	0	132	20	0	37	77	0	1	266	0	0	0	0	8	0	26	0	34	300
5:45 PM	0	110	12	2	29	105	0	1	256	0	0	0	0	10	0	24	0	34	290



Notes:

15-Minute Count Data Euclid Ped and Lee Ped



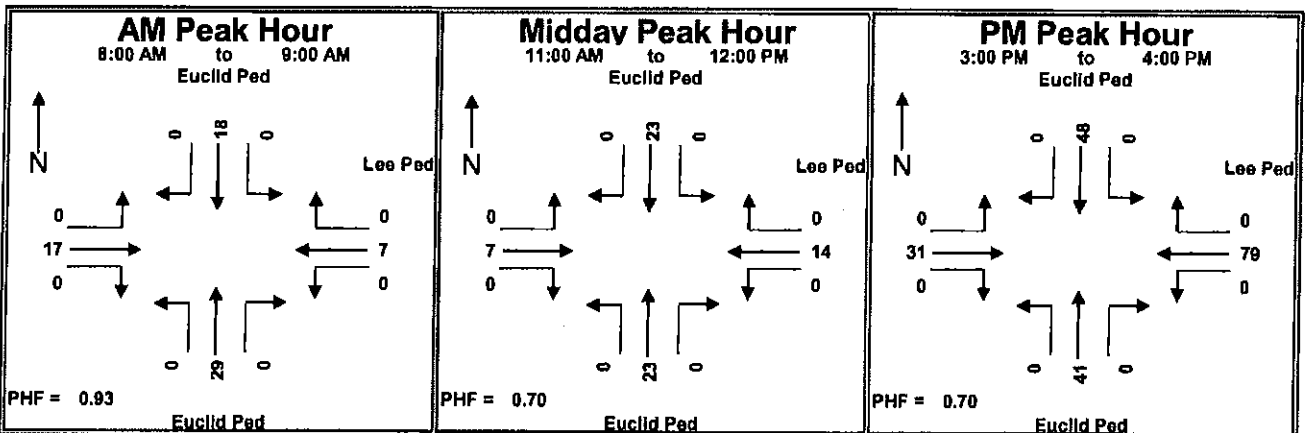
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Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
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Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Eastbound				Lee Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	201	0	0	0	204	0	0	405	0	154	0	0	0	203	0	0	357	762
ADT	0	303	0	0	0	308	0	0	611	0	232	0	0	0	306	0	0	539	1150
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
7:00 AM	0	1	0	0	0	3	0	0	4	0	1	0	0	0	2	0	0	3	7
7:15 AM	0	3	0	0	0	0	0	0	3	0	2	0	0	0	2	0	0	4	7
7:30 AM	0	10	0	0	0	2	0	0	12	0	2	0	0	0	0	0	0	2	14
7:45 AM	0	11	0	0	0	3	0	0	14	0	3	0	0	0	2	0	0	5	19
8:00 AM	0	9	0	0	0	5	0	0	14	0	2	0	0	0	3	0	0	5	19
8:15 AM	0	9	0	0	0	5	0	0	14	0	4	0	0	0	1	0	0	5	19
8:30 AM	0	5	0	0	0	1	0	0	6	0	5	0	0	0	3	0	0	8	14
8:45 AM	0	6	0	0	0	7	0	0	13	0	6	0	0	0	0	0	0	6	19
9:00 AM	0	3	0	0	0	0	0	0	3	0	5	0	0	0	4	0	0	9	12
9:15 AM	0	1	0	0	0	3	0	0	4	0	1	0	0	0	2	0	0	3	7
9:30 AM	0	6	0	0	0	6	0	0	12	0	6	0	0	0	7	0	0	13	25
9:45 AM	0	4	0	0	0	3	0	0	7	0	1	0	0	0	1	0	0	2	9
11:00 AM	0	5	0	0	0	11	0	0	16	0	4	0	0	0	4	0	0	8	24
11:15 AM	0	5	0	0	0	9	0	0	14	0	0	0	0	0	9	0	0	9	23
11:30 AM	0	7	0	0	0	1	0	0	8	0	2	0	0	0	0	0	0	2	10
11:45 AM	0	6	0	0	0	2	0	0	8	0	1	0	0	0	1	0	0	2	10
12:00 PM	0	0	0	0	0	3	0	0	3	0	1	0	0	0	3	0	0	4	7
12:15 PM	0	1	0	0	0	4	0	0	5	0	3	0	0	0	3	0	0	6	11
12:30 PM	0	2	0	0	0	3	0	0	5	0	6	0	0	0	0	0	0	6	11
12:45 PM	0	4	0	0	0	3	0	0	7	0	5	0	0	0	6	0	0	11	18
1:00 PM	0	2	0	0	0	9	0	0	11	0	1	0	0	0	4	0	0	5	16
1:15 PM	0	1	0	0	0	3	0	0	4	0	5	0	0	0	5	0	0	10	14
1:30 PM	0	1	0	0	0	3	0	0	4	0	3	0	0	0	6	0	0	9	13
1:45 PM	0	6	0	0	0	4	0	0	10	0	4	0	0	0	3	0	0	7	17
3:00 PM	0	3	0	0	0	11	0	0	14	0	15	0	0	0	10	0	0	25	39
3:15 PM	0	28	0	0	0	9	0	0	37	0	4	0	0	0	30	0	0	34	71
3:30 PM	0	8	0	0	0	9	0	0	17	0	6	0	0	0	33	0	0	39	56
3:45 PM	0	2	0	0	0	19	0	0	21	0	6	0	0	0	6	0	0	12	33
4:00 PM	0	9	0	0	0	17	0	0	26	0	5	0	0	0	1	0	0	6	32
4:15 PM	0	3	0	0	0	9	0	0	12	0	8	0	0	0	5	0	0	13	25
4:30 PM	0	12	0	0	0	9	0	0	21	0	6	0	0	0	15	0	0	21	42
4:45 PM	0	1	0	0	0	7	0	0	8	0	4	0	0	0	1	0	0	5	13
5:00 PM	0	17	0	0	0	4	0	0	21	0	11	0	0	0	8	0	0	19	40
5:15 PM	0	2	0	0	0	2	0	0	4	0	5	0	0	0	11	0	0	16	20
5:30 PM	0	6	0	0	0	6	0	0	12	0	5	0	0	0	7	0	0	12	24
5:45 PM	0	2	0	0	0	9	0	0	11	0	6	0	0	0	5	0	0	11	22



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Lee Blvd
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 2 E: 1 W: 0
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION SECT: _____
 CALC. BY: _____ CKD BY: _____

OTHER (DESCRIBE):
 SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 180 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from: _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

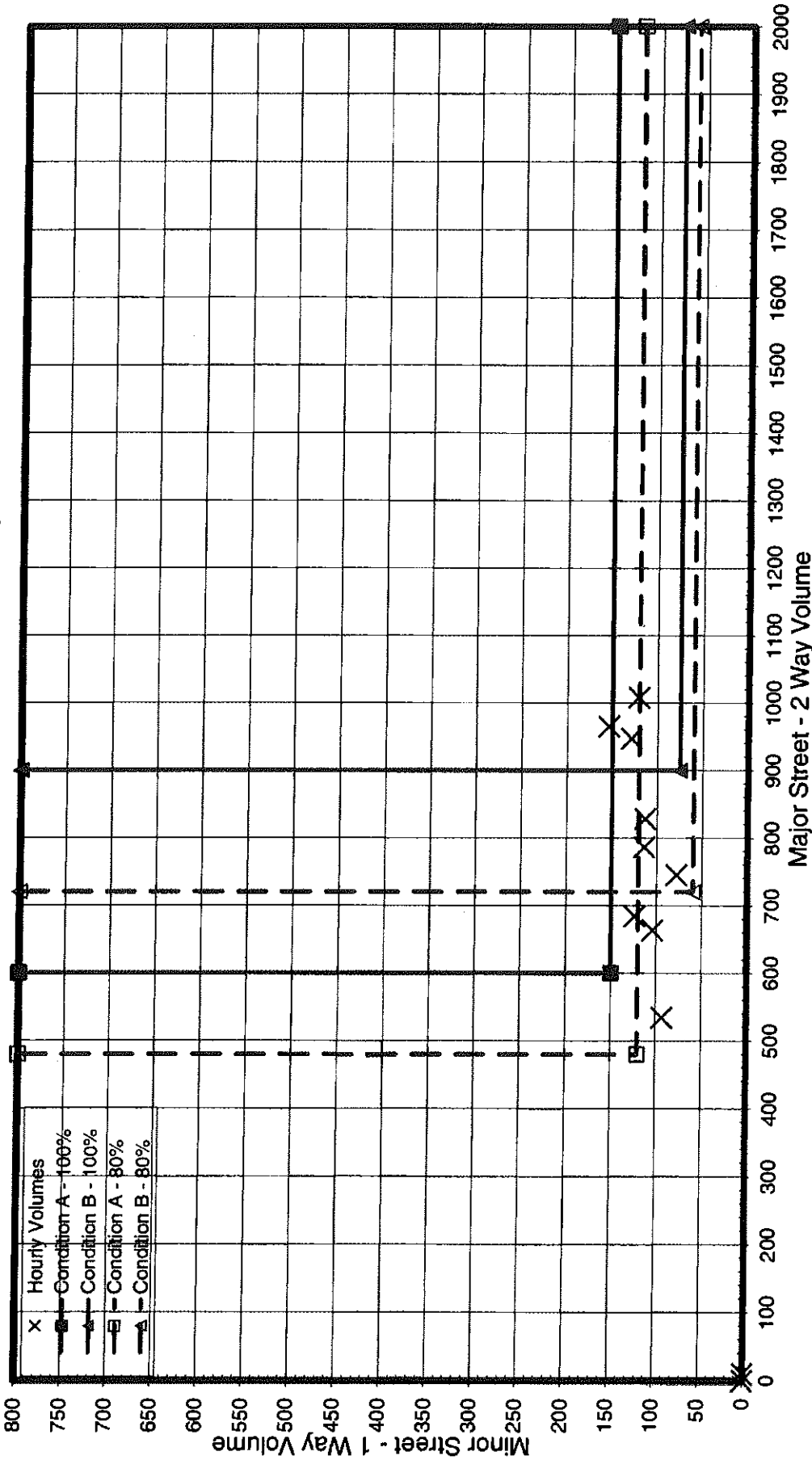
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

COND. NO. OF MAJOR ST MINOR ST	ADJUSTED HOURLY VOLUMES												WARRANT #2		WARRANT #3		
	2-WAY		1-WAY		1-WAY		1-WAY		1-WAY		1-WAY		4	6	1	0	
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	NO	NO	NO	NO	
NORM	2+	1	500	150	400	120	750	75	600	60	600	60					
70%	2+	1	350	105	280	84	525	53	420	42	420	42					
MID-1AM	0	0	420	140	336	112	630	70	504	56	504	56					
1AM-2AM	0	0															
2AM-3AM	0	0															
3AM-4AM	0	0															
4AM-5AM	0	0															
5AM-6AM	0	0															
6AM-7AM	0	0															
7AM-8AM	534	0			X												
8AM-9AM	684	0	X		X	X											
9AM-10AM	663	0	X		X												
10AM-11AM	10	0															
11AM-NOON	745	0	X		X												
NOON-1PM	786	0	X		X												
1PM-2PM	828	0	X		X												
2PM-3PM	0	0															
3PM-4PM	965	0	X	X	X												
4PM-5PM	947	0	X	X	X												
5PM-6PM	1008	0	X	X	X												
6PM-7PM	0	0															
7PM-8PM	0	0															
8PM-9PM	0	0															
9PM-10PM	0	0															
10PM-11PM	0	0															
11PM-MID	0	0															
HOURS MET																	
WARRANT SATISFIED?																	
1 4 3 6																	

CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

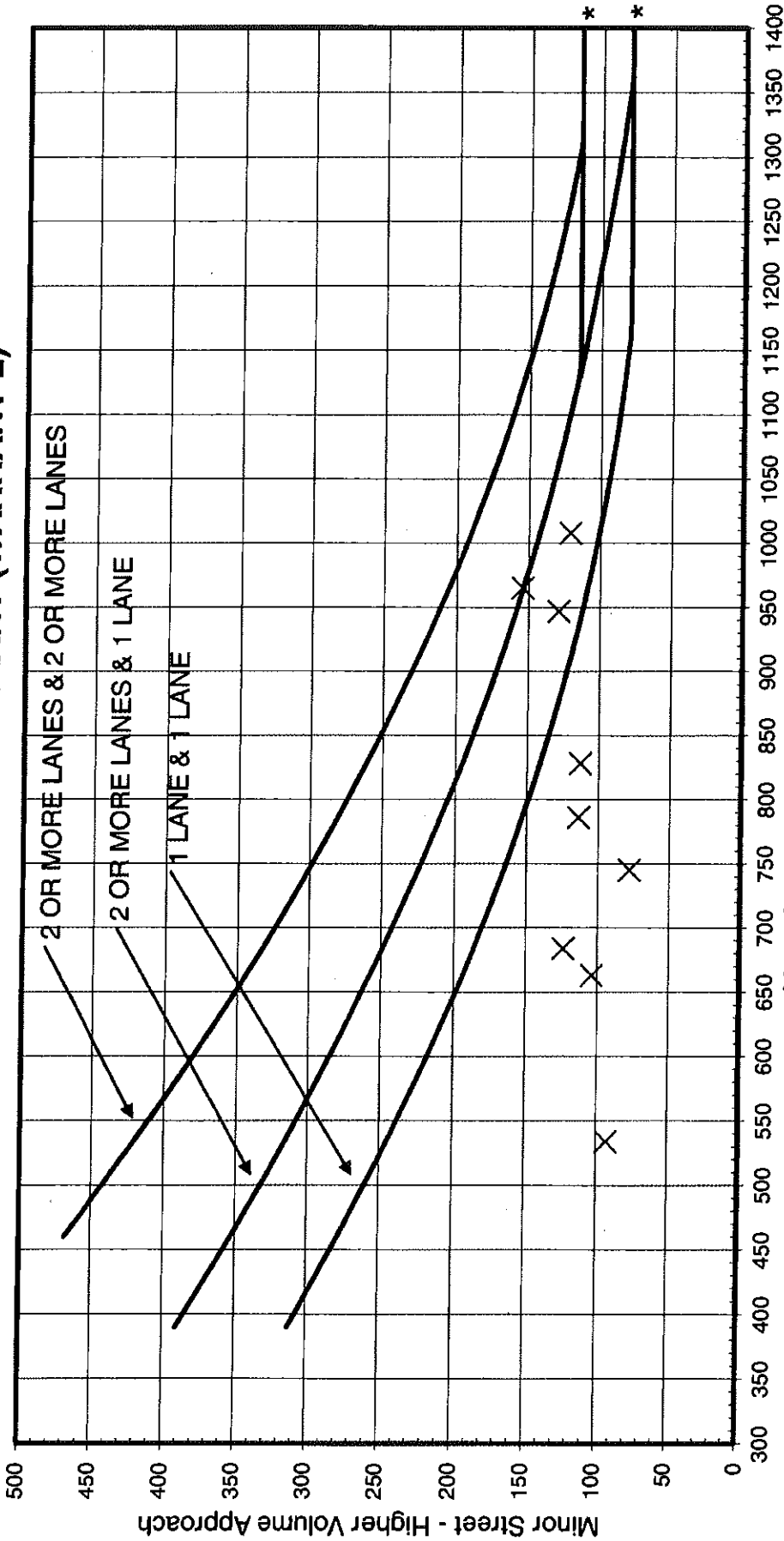


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Day of Week	Date & Year	From	To	Weather
Thursday	May 19, 2011	7:00 AM	10:00 AM	
Thursday	May 19, 2011	11:00 AM	2:00 PM	
Thursday	May 19, 2011	3:00 PM	6:00 PM	

Major Road = Euclid Ave	Lanes = 2
Minor Road = Lee Blvd	Lanes = 1
Road Location = Urban	
Condition A (100%) =	Warrant Met? No
Condition B (100%) =	Warrant Met? No
Condition A (80%) =	Warrant Met? No
Condition B (80%) =	Warrant Met? No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



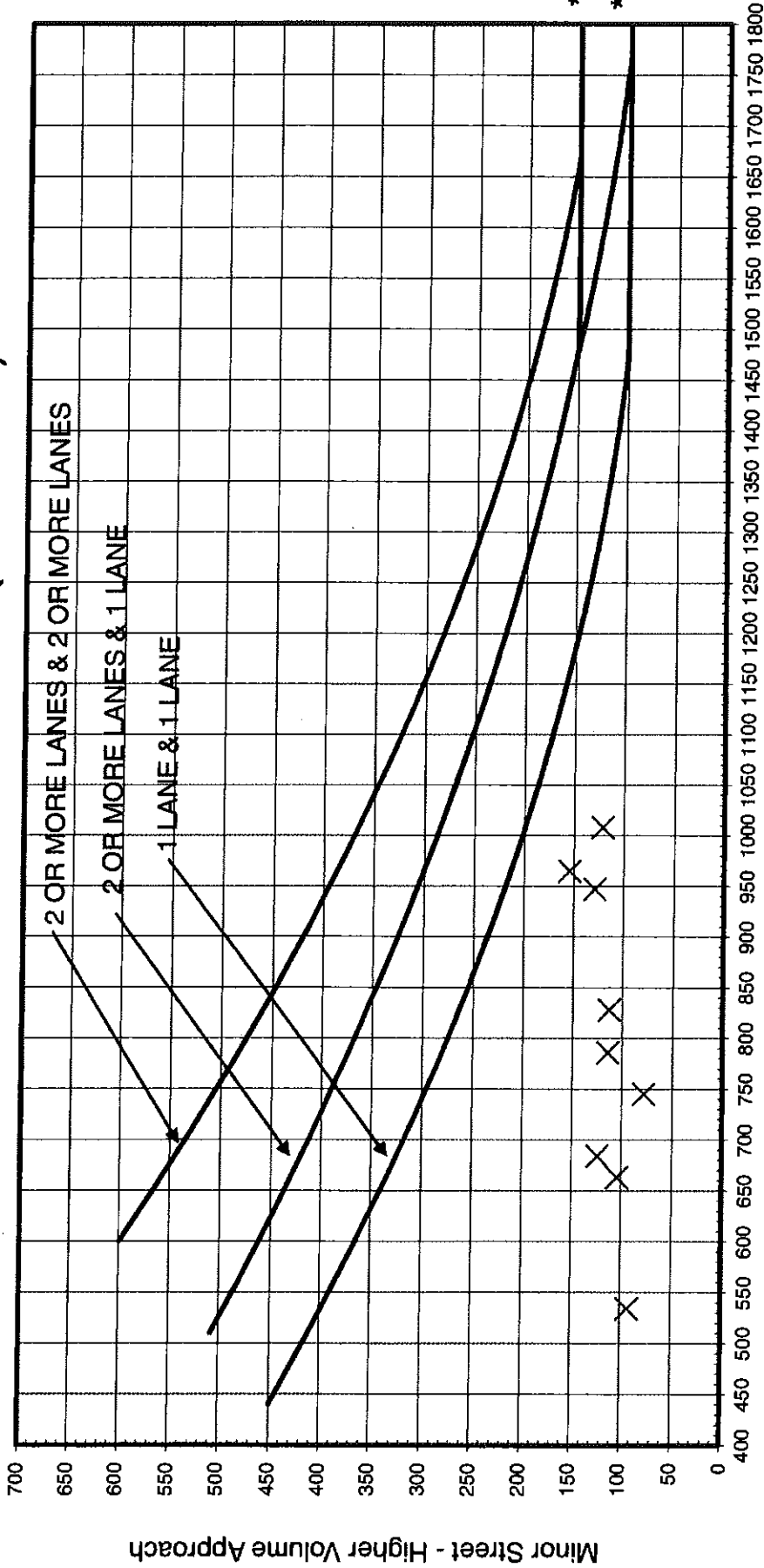
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Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	May 19, 2011	7:00 AM	10:00 AM	
Thursday	May 19, 2011	11:00 AM	2:00 PM	
Thursday	May 19, 2011	3:00 PM	6:00 PM	

Major Road =
 Minor Road =
 Road Location =

Lanes
 Warrant Met?

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

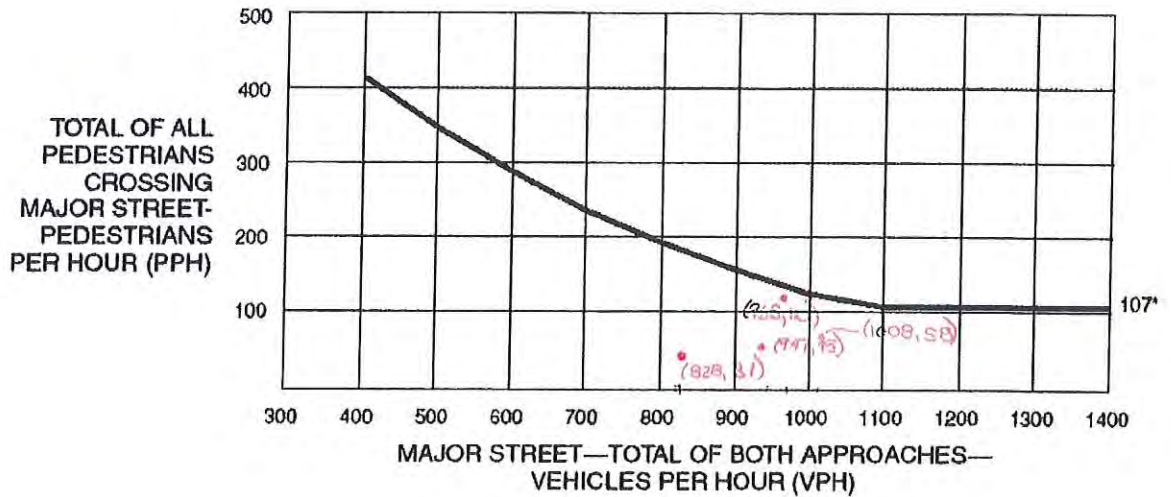


Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	May 19, 2011	7:00 AM	10:00 AM	
Thursday	May 19, 2011	11:00 AM	2:00 PM	
Thursday	May 19, 2011	3:00 PM	6:00 PM	

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

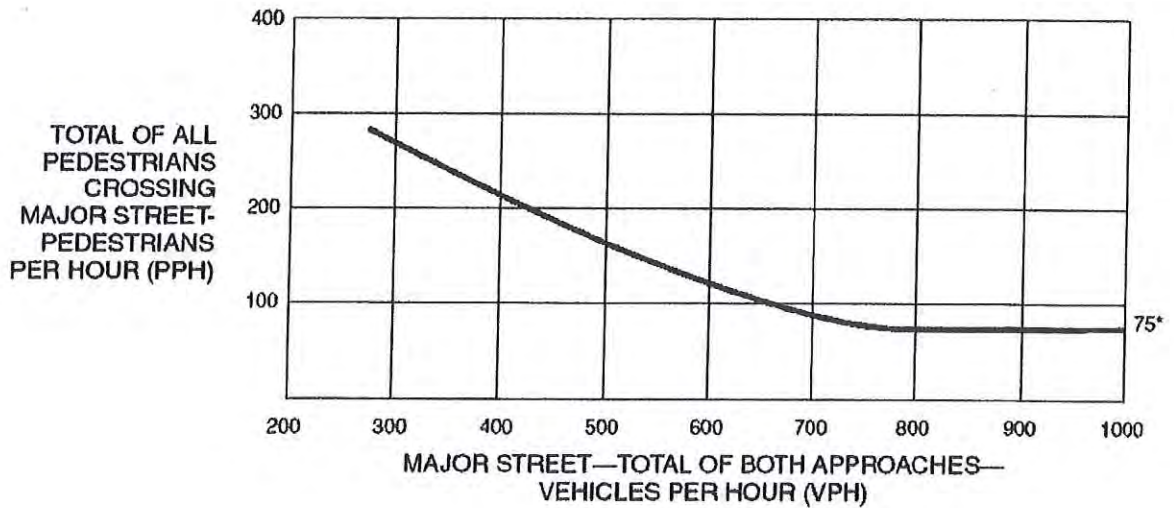
Warrant 3 (Urban) = Hours Meet Warrant Met?

Figure 4C-5. Warrant 4, Pedestrian Four-Hour Volume



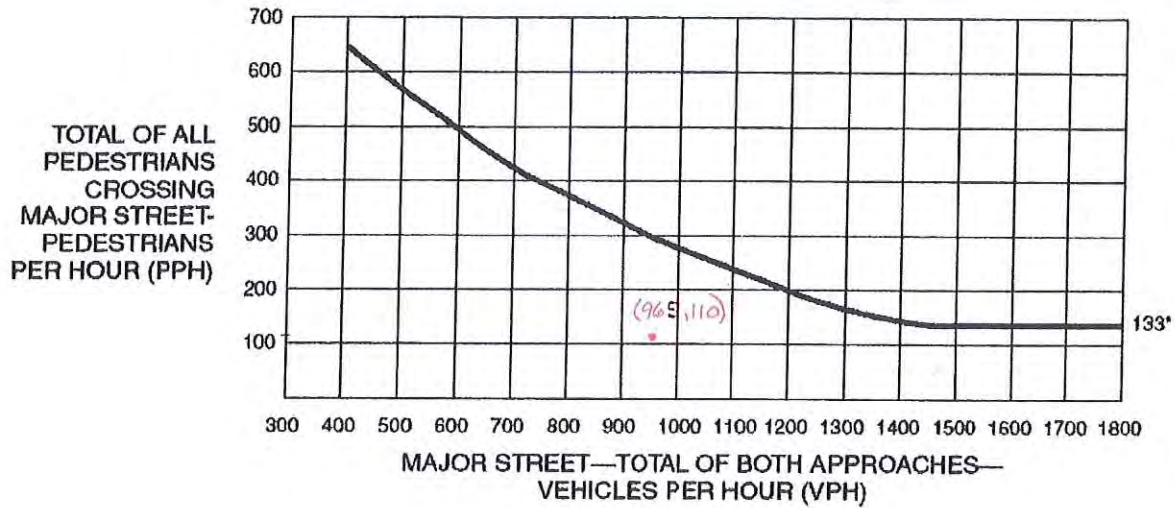
*Note: 107 pph applies as the lower threshold volume.

Figure 4C-6. Warrant 4, Pedestrian Four-Hour Volume (70% Factor)



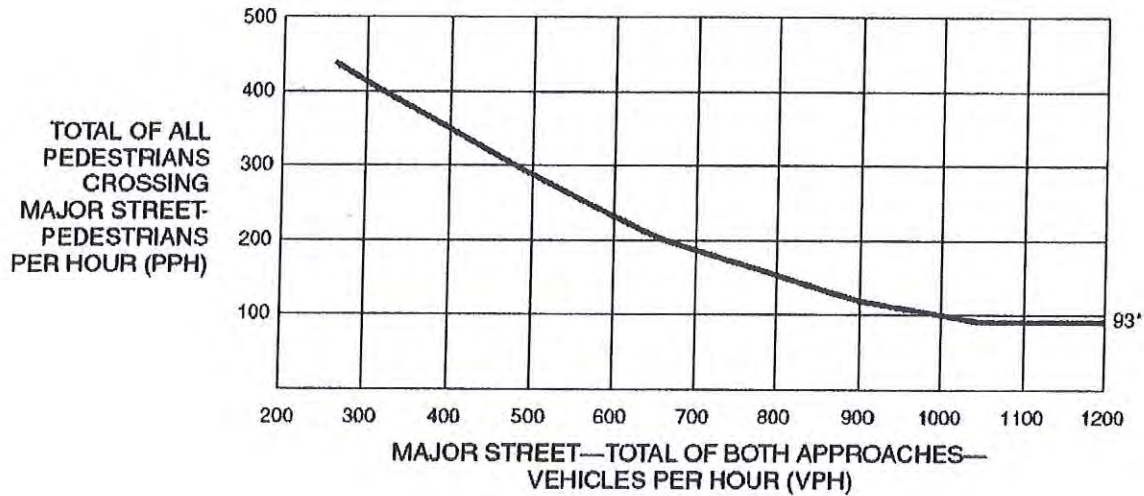
*Note: 75 pph applies as the lower threshold volume.

Figure 4C-7. Warrant 4, Pedestrian Peak Hour



*Note: 133 pph applies as the lower threshold volume.

Figure 4C-8. Warrant 4, Pedestrian Peak Hour (70% Factor)



*Note: 93 pph applies as the lower threshold volume.

15-Minute Count Data Euclid Ave and Marloes Ave



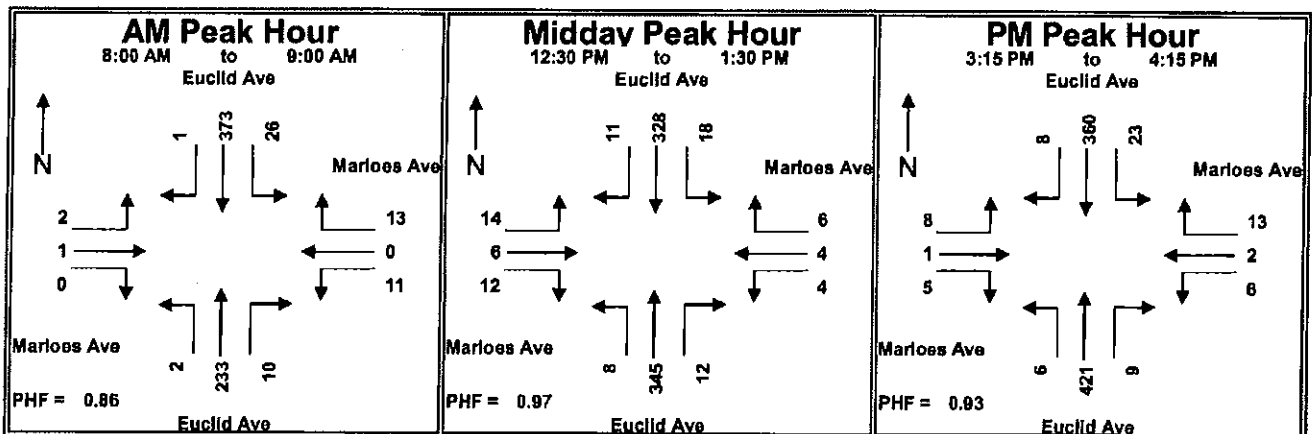
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 31, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 31, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 31, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Marloes Ave Eastbound				Marloes Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	50	2851	74	20	146	2884	53	32	6058	58	17	59	0	46	18	54	0	252	6310
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	78	4461	116	31	228	4512	83	50	9479	91	27	92	0	72	28	84	0	394	9873



Notes:

Euclid/Marloes
Bus Counts
May 31, 2011

File Name : 2305-5-31-20
Site Code : 00000000
Start Date : 05/31/2011
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Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
07:15 AM	0	4	0	0	0	0	0	0	0	6	0	0	0	0	0	0	1
07:30 AM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
07:45 AM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	13	0	0	0	0	0	0	0	12	0	0	0	0	0	0	2
08:00 AM	0	3	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
08:15 AM	0	6	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
08:30 AM	0	3	0	0	1	0	0	0	0	3	0	0	0	0	0	0	
08:45 AM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Total	0	15	0	0	1	0	0	0	0	11	0	0	0	0	0	0	2
09:00 AM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
09:15 AM	0	5	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
09:30 AM	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
09:45 AM	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	16	0	0	0	0	0	0	0	7	0	0	0	0	0	0	2
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
11:15 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
11:30 AM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
11:45 AM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	7	0	0	0	0	0	0	0	8	0	0	0	0	0	0	1
12:00 PM	0	1	0	0	0	0	0	0	0	5	0	0	0	0	0	0	
12:15 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:30 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
12:45 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	8	0	0	0	0	0	0	0	9	0	0	0	0	0	0	1
01:00 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:15 PM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:30 PM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
01:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	1
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
03:15 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
03:30 PM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
03:45 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Total	0	6	0	0	0	0	0	0	0	9	0	0	0	0	0	0	1
04:00 PM	0	3	0	0	0	0	0	0	0	5	0	0	0	0	0	0	
04:15 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
04:30 PM	0	4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
04:45 PM	0	4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
Total	0	14	0	0	0	0	0	0	0	12	0	0	0	0	0	0	2

15-Minute Count Data

Euclid Ped and Marloes Ped



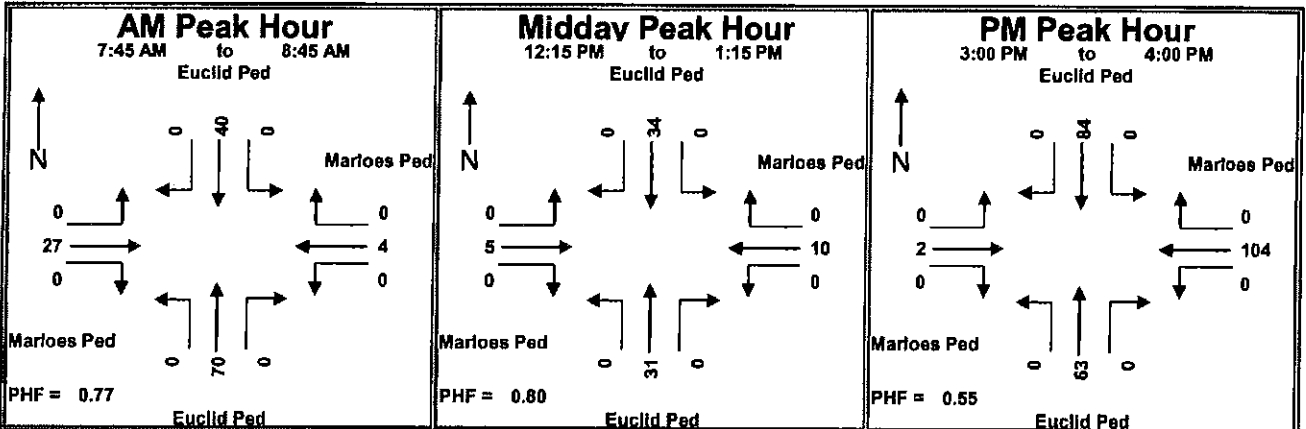
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 31, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 31, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 31, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Marloes Ped Eastbound				Marloes Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	359	0	0	0	336	0	0	695	0	46	0	0	0	179	0	0	225	920
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	562	0	0	0	526	0	0	1087	0	72	0	0	0	280	0	0	352	1439



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Marfoes Ave
 LOCATED IN CITY/VILLAGE/RURAL: // Urban
 NUMBER OF LANES PER APPROACH: N:2 S:2 E:1 W:1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____ CKD BY: _____

ADDITIONAL ITEMS ATTACHED

SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

OTHER (DESCRIBE): _____

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT #2	WARRANT #3
	MAJOR ST		MINOR ST		100%		80%		100%		80%		FOUR HOUR	PEAK HOUR		
	1-WAY	2-WAY	1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR				
NORM	2+	X	0	0	500	150	400	120	750	75	600	60				
70%	1				600	200	480	160	900	100	720	80				
	2+				350	105	280	84	525	53	420	42				
MID-1AM	0	0	0	0	420	140	336	112	630	70	504	56				
1AM-2AM	0	0	0	0												
2AM-3AM	0	0	0	0												
3AM-4AM	0	0	0	0												
4AM-5AM	0	0	0	0												
5AM-6AM	0	0	0	0												
6AM-7AM	0	0	0	0												
7AM-8AM	455	4	8	8												
8AM-9AM	645	3	24	24	X											
9AM-10AM	537	8	6	6	X											
10AM-11AM	0	0	0	0												
11AM-NOON	908	17	12	12	X											
NOON-1PM	678	29	8	8	X											
1PM-2PM	687	26	14	14	X											
2PM-3PM	0	0	0	0												
3PM-4PM	823	18	20	20	X											
4PM-5PM	833	12	13	13	X											
5PM-6PM	782	17	13	13	X											
6PM-7PM	0	0	0	0												
7PM-8PM	0	0	0	0												
8PM-9PM	0	0	0	0												
9PM-10PM	0	0	0	0												
10PM-11PM	0	0	0	0												
11PM-MID	0	0	0	0												
HOURS MET													0	0	0	
WARRANT SATISFIED?													NO	NO	NO	

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____ NO
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

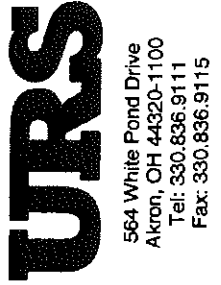
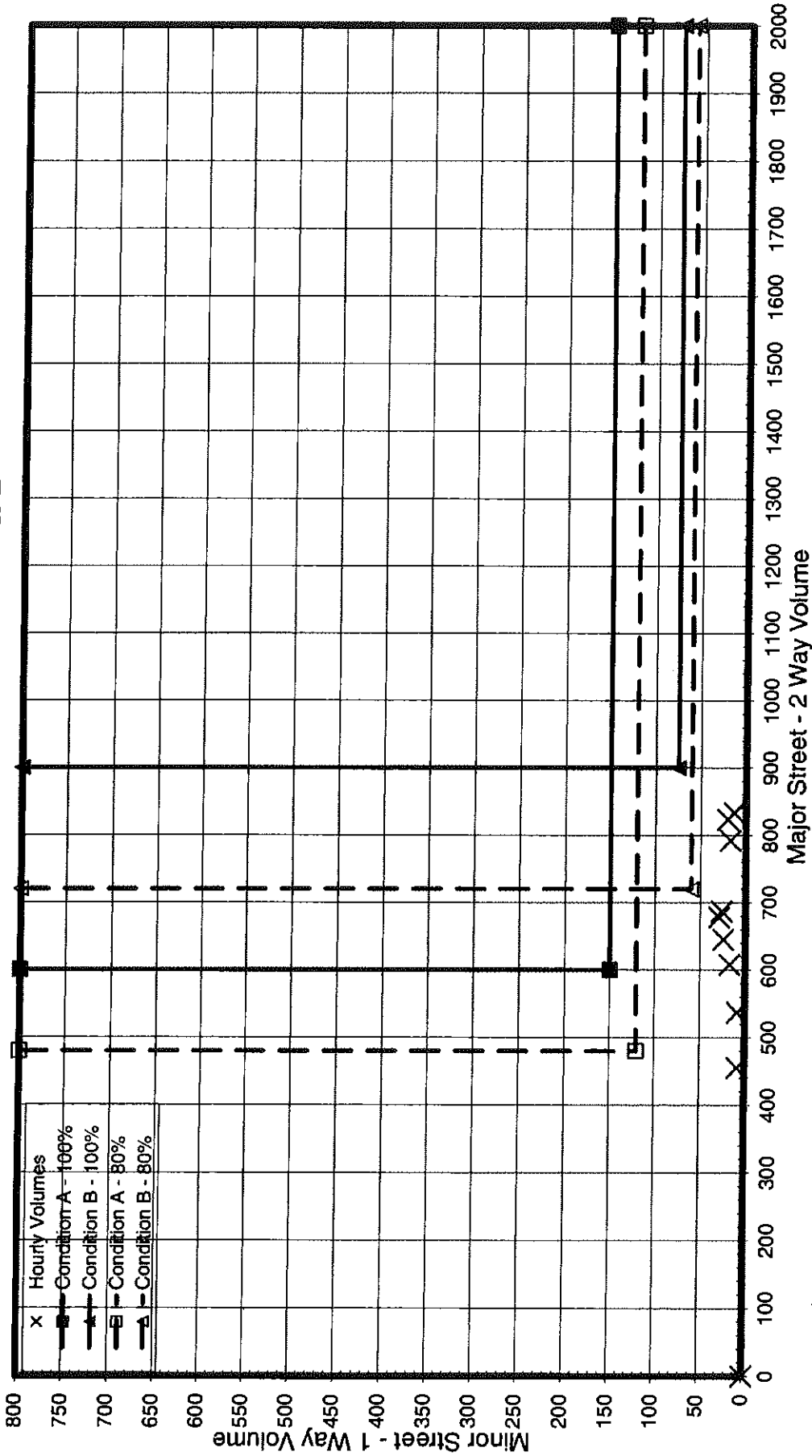
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____ TWO-WAY
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

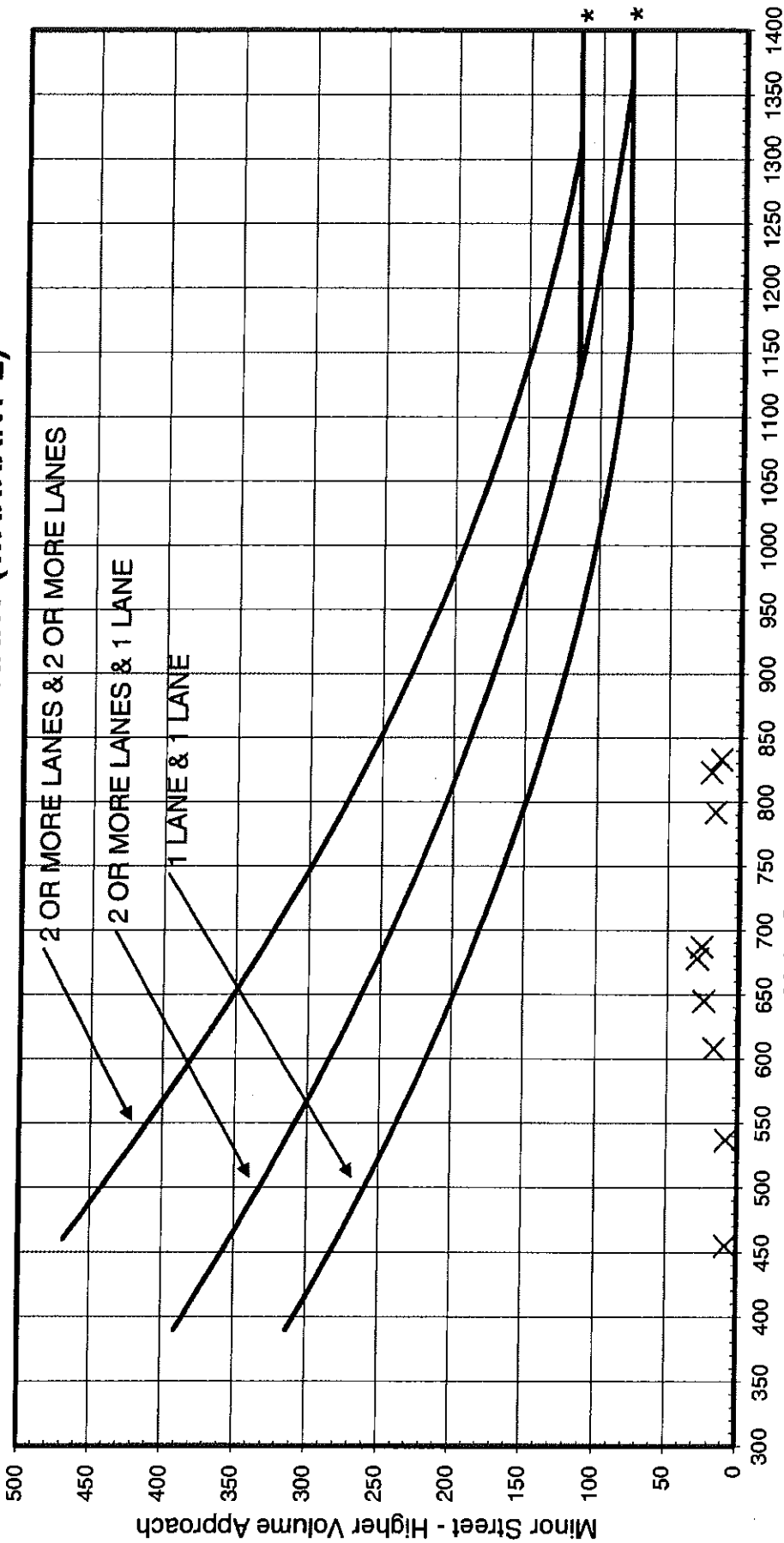
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 31, 2011	7:00 AM	10:00 AM	
Tuesday	May 31, 2011	11:00 AM	2:00 PM	
Tuesday	May 31, 2011	3:00 PM	6:00 PM	

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Marices Ave		1
Road Location =	Urban	Warrant Met?	
Condition A (100%) =	0 Hours Met	No	No
Condition B (100%) =	0 Hours Met	No	No
Condition A (80%) =	0 Hours Met	No	No
Condition B (80%) =	0 Hours Met	No	No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



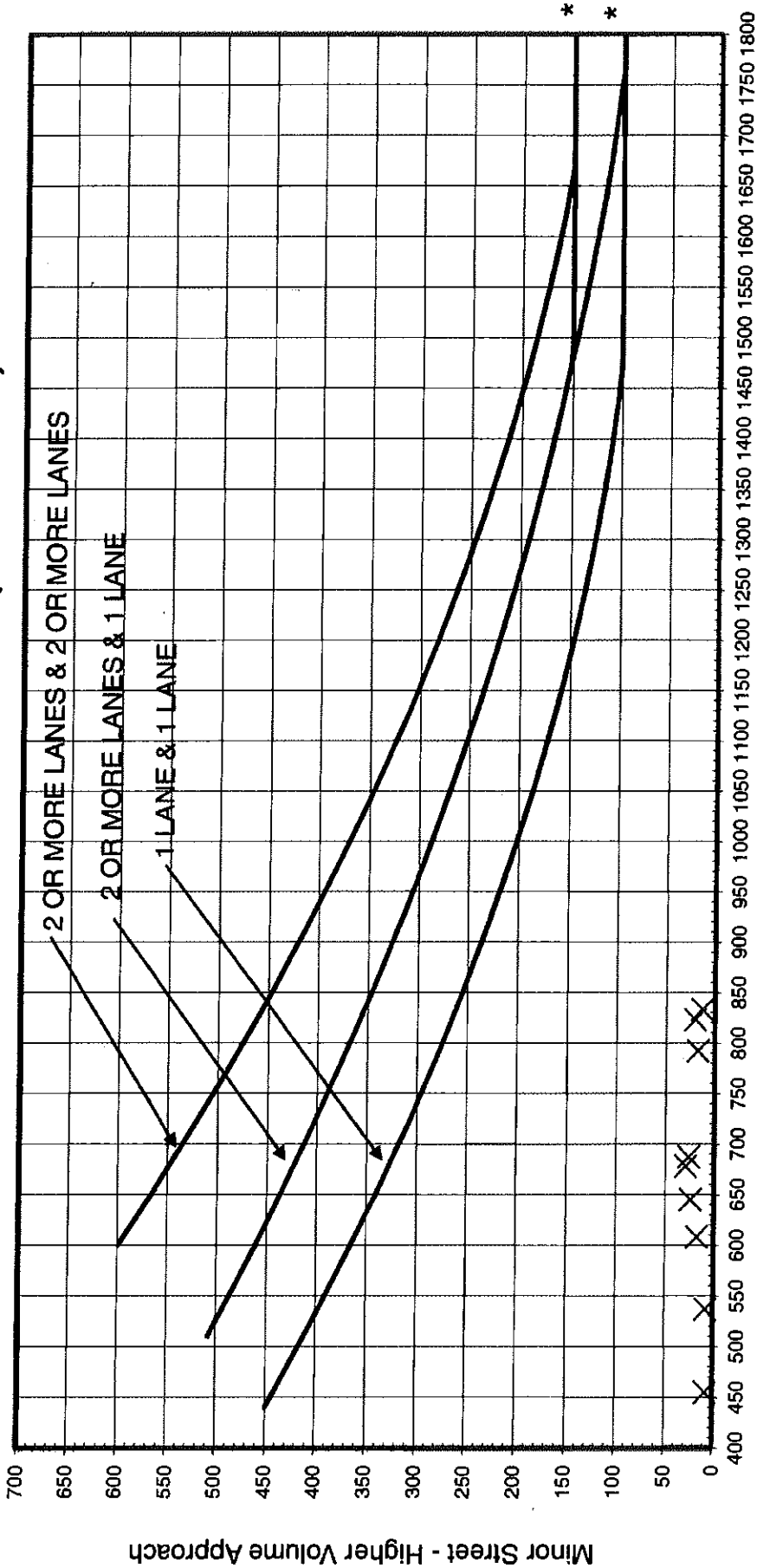
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 31, 2011	7:00 AM	10:00 AM	
Tuesday	May 31, 2011	11:00 AM	2:00 PM	
Tuesday	May 31, 2011	3:00 PM	6:00 PM	

Major Road = Lanes
 Minor Road =
 Road Location =

Warrant 2 (Urban) = Hours Meet Warrant Met?

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Minor Street - Higher Volume Approach

Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 31, 2011	7:00 AM	10:00 AM	
Tuesday	May 31, 2011	11:00 AM	2:00 PM	
Tuesday	May 31, 2011	3:00 PM	6:00 PM	



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 Akron, OH 44320-1100
 Tel: 330.836.9111
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15-Minute Count Data Euclid Ave and Noble Rd



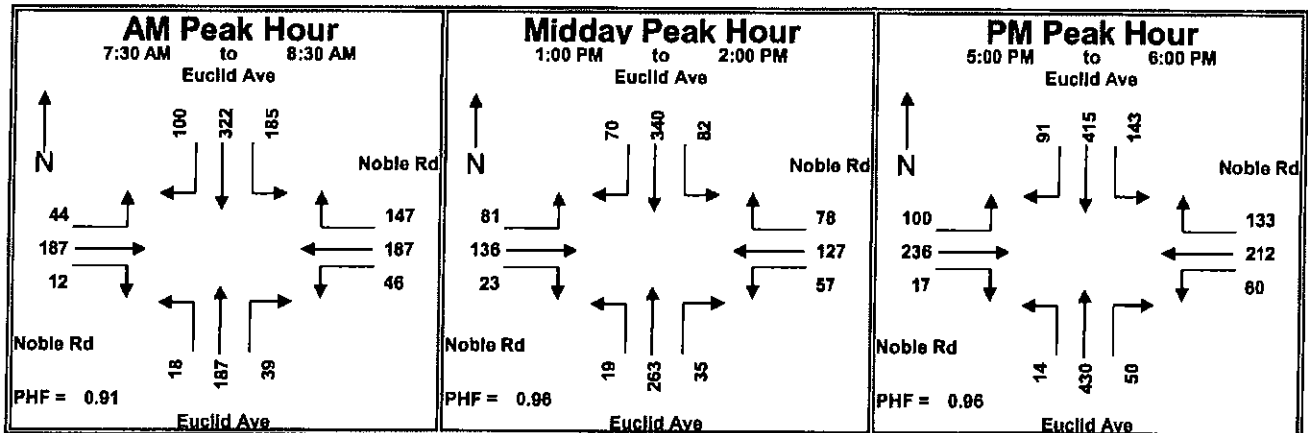
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 10, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 10, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 10, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Noble Rd Eastbound				Noble Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	151	2519	367	61	1058	2854	661	116	7610	605	1427	140	50	457	1334	855	29	4818	12428
	Percent Trucks = 2%				Percent Trucks = 3%					Percent Trucks = 2%				Percent Trucks = 1%					
ADT	236	3941	574	95	1655	4465	1034	181	11907	947	2233	219	78	715	2087	1338	45	7538	19445



Notes:

Euclid/Noble
Bus Counts
May 10, 2011

File Name : 2056-5-10-2011 m
Site Code : 05102011
Start Date : 05/10/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot:
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
07:00 AM	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	1	0	0	1	3	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	2	0	2	5	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	0	0	0	1	1	2	0	2	3	0	0	0	0	0	0	0
09:00 AM	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0
09:15 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
09:30 AM	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	3	0	1	3	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	1	0	2	1	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	0	0	0	4	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	1	0	1	2	1	0	0	0	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0
Total	0	0	0	0	1	1	2	0	2	6	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	1	1	0	0	3	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	1	0	1	6	0	0	0	0	0	0	0

Euclid/Noble
 Bus Counts
 May 10, 2011

File Name : 2056-5-10-2011 m
 Site Code : 05102011
 Start Date : 05/10/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	2	0	3	3	0	0	0	0	0	0	
Grand Total	0	0	0	0	3	7	15	0	14	37	1	0	0	0	0	0	7
Approch %	0.0	0.0	0.0	0.0	12.0	28.0	60.0	0.0	26.9	71.2	1.9	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	3.9	9.1	19.5	0.0	18.2	48.1	1.3	0.0	0.0	0.0	0.0	0.0	

15-Minute Count Data Euclid Ped and Noble Ped



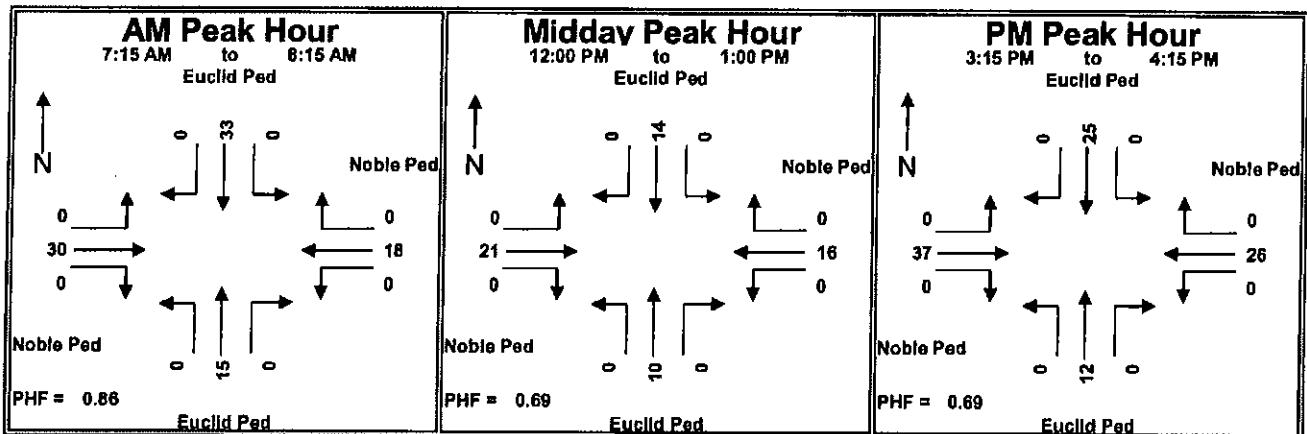
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 10, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 10, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 10, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Noble Ped Eastbound				Noble Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	74	0	0	0	159	0	0	233	0	179	0	0	0	117	0	0	296	629
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	116	0	0	0	249	0	0	365	0	280	0	0	0	183	0	0	463	828



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave. and Noble Rd
 LOCATION IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N:2 S:2 E:2 W:2
 PRESENTLY SIGNALIZED? Yes / No DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____

SECT: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED

- SKETCH OR DRAWING
- VEHICULAR VOLUME COUNT
- TRAFFIC PROJECTION
- ACCIDENT DATA
- PEDESTRIAN COUNT
- GAP ANALYSIS
- SPEED DATA
- DELAY ANALYSIS
- TIME/SPACE DIAGRAM
- GROUND PHOTOGRAPHS
- AERIAL PHOTOGRAPHS
- DOCUMENTATION/EXPLANATION
- OTHER (DESCRIBE):

COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES				WARRANT #1						WARRANT #2		WARRANT #3	
		MINOR ST		MINOR ST		100%		80%		100%		80%		FOUR HOUR	PEAK HOUR
		1-WAY	2-WAY	1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR		
NORM	1		X	X		500	150	400	120	750	75	600	60		
	2+					600	200	480	160	900	100	720	80		
70%	2+					350	105	280	84	525	53	420	42		
MID-1AM	0	0	0	0	0	420	140	336	112	630	70	504	56		
1AM-2AM	0	0	0	0	0										
2AM-3AM	0	0	0	0	0										
3AM-4AM	0	0	0	0	0										
4AM-5AM	0	0	0	0	0										
5AM-6AM	0	0	0	0	0										
6AM-7AM	0	0	0	0	0										
7AM-8AM	688	215	334		X	X	X	X	X	X	X	X	X		
8AM-9AM	770	204	304		X	X	X	X	X	X	X	X	X		
9AM-10AM	503	126	154		X	X	X	X	X	X	X	X	X		
10AM-11AM	156	22	84		X	X	X	X	X	X	X	X	X		
11AM-NOON	649	165	197		X	X	X	X	X	X	X	X	X		
NOON-1PM	786	226	268		X	X	X	X	X	X	X	X	X		
1PM-2PM	809	240	262		X	X	X	X	X	X	X	X	X		
2PM-3PM	0	0	0												
3PM-4PM	1147	320	390		X	X	X	X	X	X	X	X	X		
4PM-5PM	1115	323	332		X	X	X	X	X	X	X	X	X		
5PM-6PM	1143	353	405		X	X	X	X	X	X	X	X	X		
6PM-7PM	0	0	0												
7PM-8PM	0	0	0												
8PM-9PM	0	0	0												
9PM-10PM	0	0	0												
10PM-11PM	0	0	0												
11PM-MID	0	0	0												
				7	8	3	6								
				NO	YES	NO	NO								

WARRANT SATISFIED? _____
 CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH
 ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level:..... NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians.....
 Hours with 190 or more pedestrians.....
 Pedestrian crossing time (t):.....
 Number of gaps greater than (t) during period:.....
 Warrant Satisfied?.....

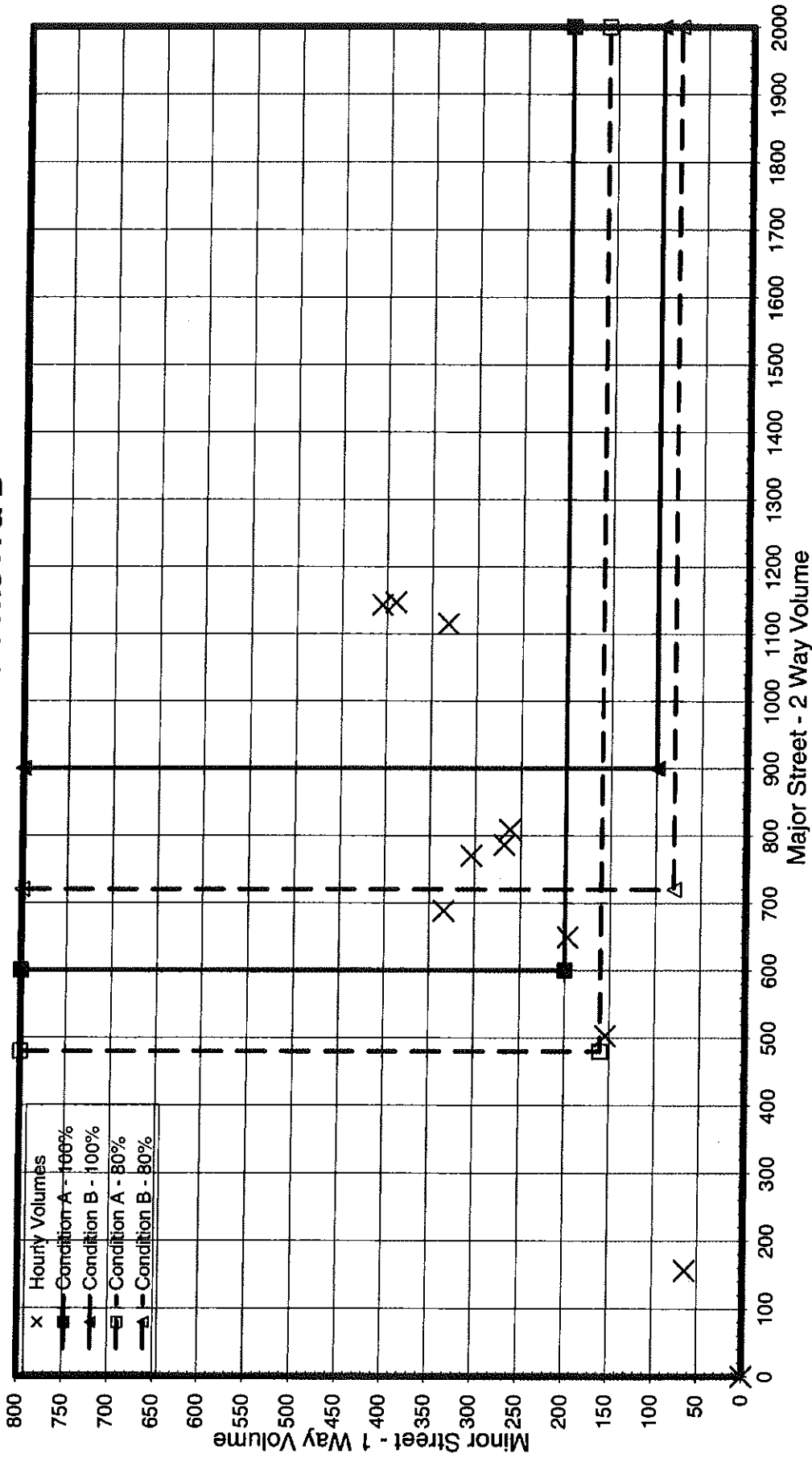
WARRANT #5 (SCHOOL CROSSING)
 On approved school route?..... NO
 Gap analysis made during period from..... to
 Number of vehicles during analysis period:.....
 Pedestrian crossing time (t):.....
 Number of gaps greater than (t) during period:.....
 Approximate vehicular speed:.....
 Number of children crossing during period:.....
 Warrant Satisfied?..... NO

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is:..... TWO-WAY
 Distance to nearest signal in each direction on major street:.....
 Time space diagram (attached) shows that this location can be implemented into a system:.....
 Warrant Satisfied?..... NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures:.....
 Number of accidents per year of a type which could be prevented by signalization:.....
 80% of warrant #1 or #2 satisfied:.....
 Will signalization disrupt progressive movement?.....
 Warrant Satisfied?..... NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes:.....
 At least 1000 V.P.H. during weekday peak hour:.....
 5-year projection meets Warrant 1, 2, or 3:.....
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday:.....
 Meets characteristic requirements?.....
 Warrant Satisfied?..... NO

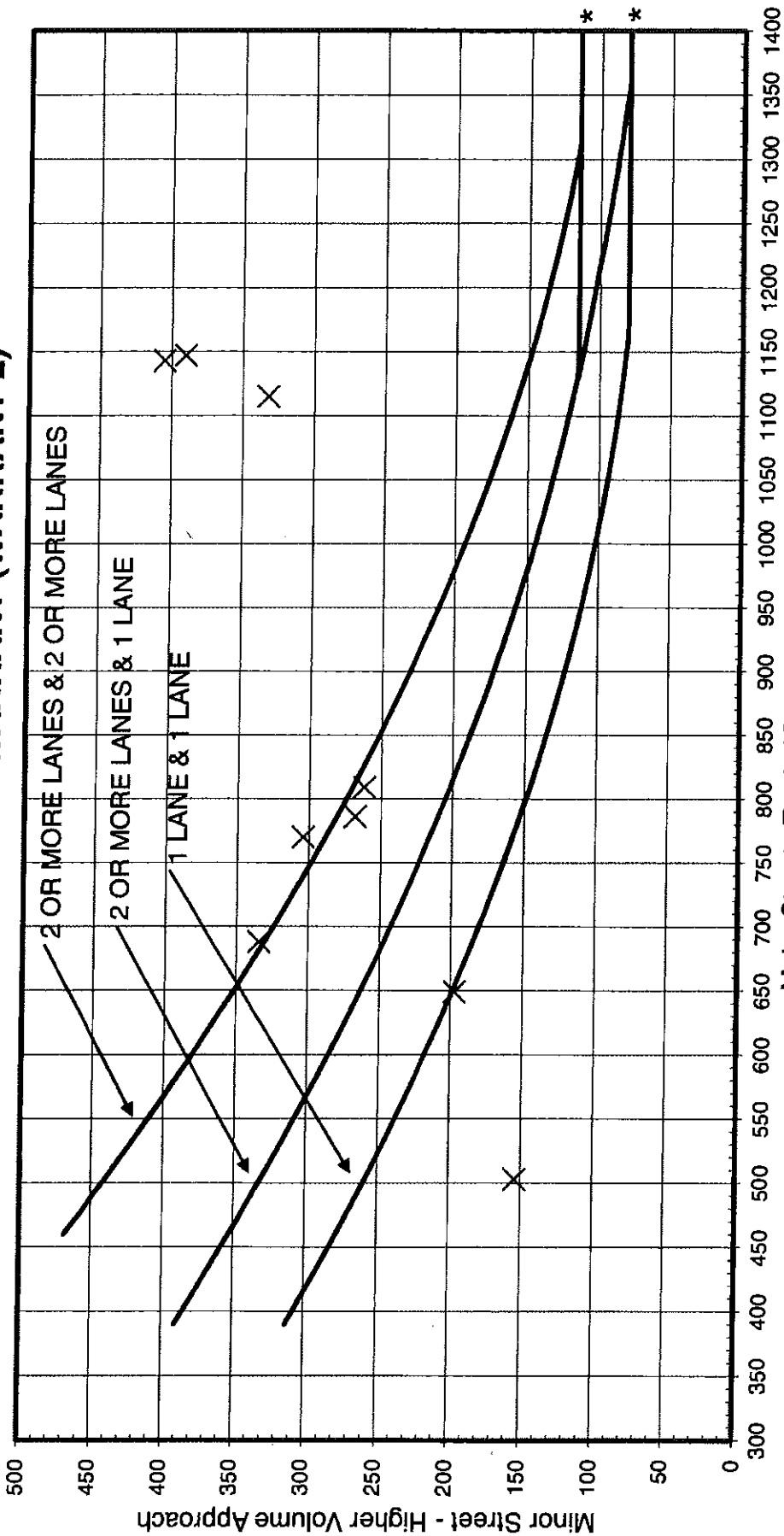
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 10, 2011	7:00 AM	10:00 AM	
Tuesday	May 10, 2011	11:00 AM	2:00 PM	
Tuesday	May 10, 2011	3:00 PM	6:00 PM	

Major Road = Euclid Ave	Lanes = 2
Minor Road = Noble Rd	Lanes = 2
Road Location = Urban	
Warrant Met?	
Condition A (100%) = 7 Hours Meet	No
Condition B (100%) = 3 Hours Meet	No
Condition A (80%) = 8 Hours Meet	Yes
Condition B (80%) = 6 Hours Meet	No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Noble Rd		2
Road Location =	Urban		

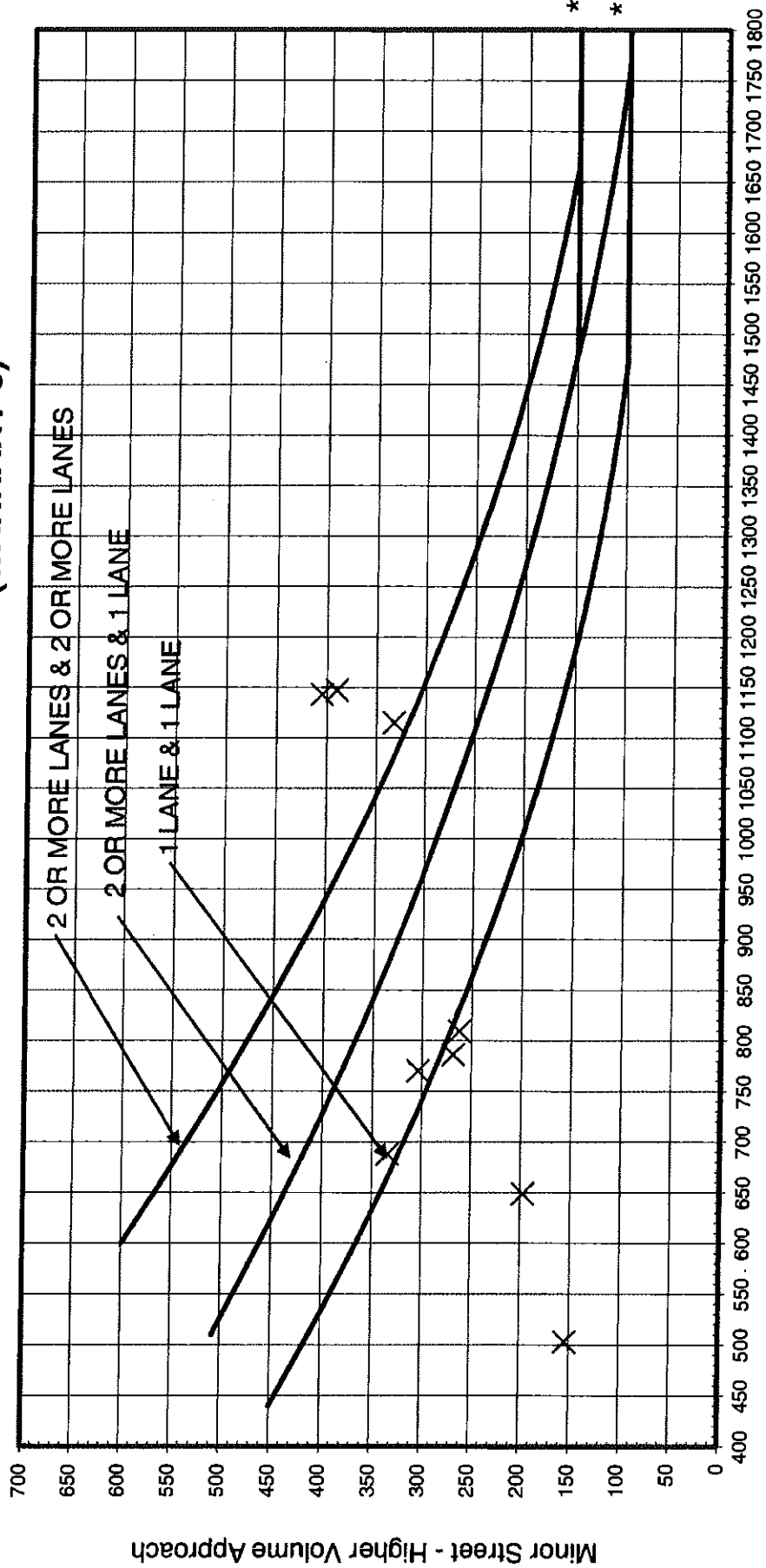
Warrant 2 (Urban) = 5 Hours Meet Warrant Met? YES

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 10, 2011	7:00 AM	10:00 AM	
Tuesday	May 10, 2011	11:00 AM	2:00 PM	
Tuesday	May 10, 2011	3:00 PM	6:00 PM	



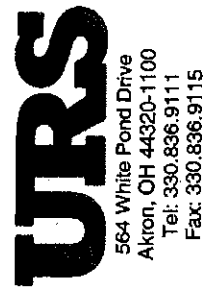
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 10, 2011	7:00 AM	10:00 AM	
Tuesday	May 10, 2011	11:00 AM	2:00 PM	
Tuesday	May 10, 2011	3:00 PM	6:00 PM	

Major Road = Euclid Ave
 Minor Road = Noble Rd
 Road Location = Urban

Warrant 3 (Urban) = 3 Hours Meet | Warrant Met? YES

15-Minute Count Data

Euclid Ave and Walgreen's and Rosemont Rd

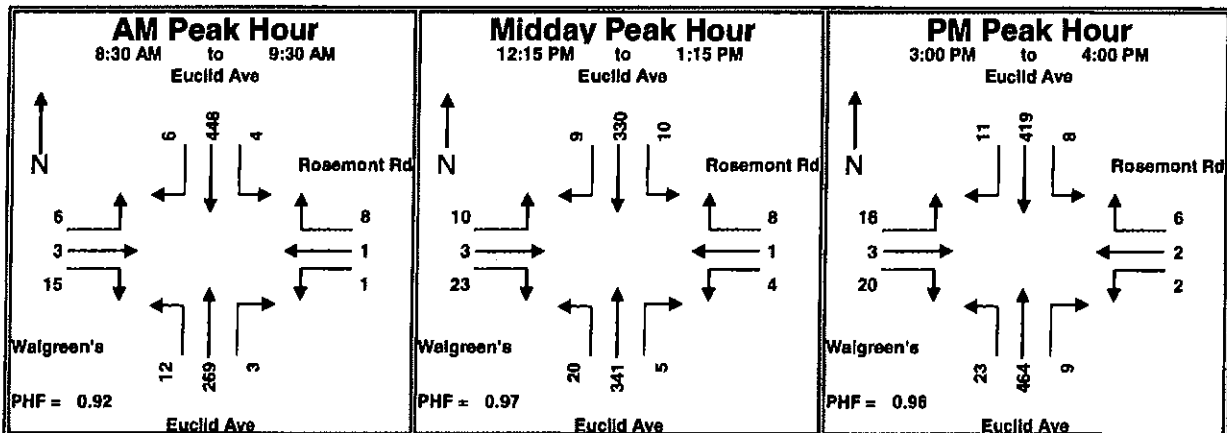


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.912	Wednesday	May 18, 2011	7:00 AM	10:00 AM	
0.912	Wednesday	May 18, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 18, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Walgreen's Eastbound				Rosemont Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	135	3129	48	89	70	3165	86	77	6633	103	20	129	0	36	16	87	1	391	7024
	Percent Trucks = 3%				Percent Trucks = 2%					Percent Trucks = 0%				Percent Trucks = 1%					
ADT	209	4853	74	138	109	4909	133	119	10288	160	31	200	0	56	25	135	2	606	10894



Notes:

Euclid/Rosemont/Walgreen's
Bus Counts
May 18, 2011

File Name : 2056-5-18-2011 m
Site Code : 05182011
Start Date : 05/18/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
07:15 AM	0	4	0	0	0	0	0	0	0	5	0	0	0	0	0	0	
07:30 AM	0	5	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
07:45 AM	0	3	0	0	0	0	0	0	0	2	0	1	0	0	0	0	
Total	0	14	0	0	0	0	0	0	0	13	0	1	0	0	0	0	2
08:00 AM	0	5	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
08:15 AM	0	5	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
08:30 AM	0	5	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
08:45 AM	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Total	0	19	0	0	0	0	0	0	0	12	0	0	0	0	0	0	3
09:00 AM	0	6	0	0	0	0	0	0	0	8	0	0	0	0	0	0	1
09:15 AM	0	3	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
09:30 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	11	0	0	0	0	0	0	0	14	0	0	0	0	0	0	2
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
11:15 AM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
11:30 AM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
11:45 AM	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	1
12:00 PM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
12:15 PM	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:30 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:45 PM	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	13	0	0	0	0	0	0	0	6	0	0	0	0	0	0	1
01:00 PM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
01:15 PM	0	4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
01:30 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:45 PM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	12	0	0	0	0	0	0	0	8	0	0	0	0	0	0	2
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	1	0	0	0	0	0	0	0	5	1	0	0	0	0	0	
03:15 PM	0	4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
03:30 PM	0	3	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
03:45 PM	0	4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
Total	0	12	0	0	0	0	0	0	0	15	1	0	0	0	0	0	2
04:00 PM	0	3	0	0	0	0	0	0	0	7	0	0	0	0	0	0	1
04:15 PM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
04:30 PM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
04:45 PM	0	3	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
Total	0	12	0	0	0	0	0	0	0	16	0	0	0	0	0	0	2

Euclid/Rosemont/Walgreen's
 Bus Counts
 May 18, 2011

File Name : 2056-5-18-2011 m
 Site Code : 05182011
 Start Date : 05/18/2011
 Page No : 2

Groups Printed- Bank 2

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	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
05:15 PM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
05:30 PM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
05:45 PM	0	4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
Total	0	13	0	0	0	0	0	0	0	10	0	0	0	0	0	0	2
Grand Total	0	115	0	0	0	0	0	0	0	103	1	1	0	0	0	0	22
Apprch %	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.1	1.0	1.0	0.0	0.0	0.0	0.0	
Total %	0.0	52.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.8	0.5	0.5	0.0	0.0	0.0	0.0	

15-Minute Count Data

Euclid Ped and Walgreen's Ped and Rosemont Ped

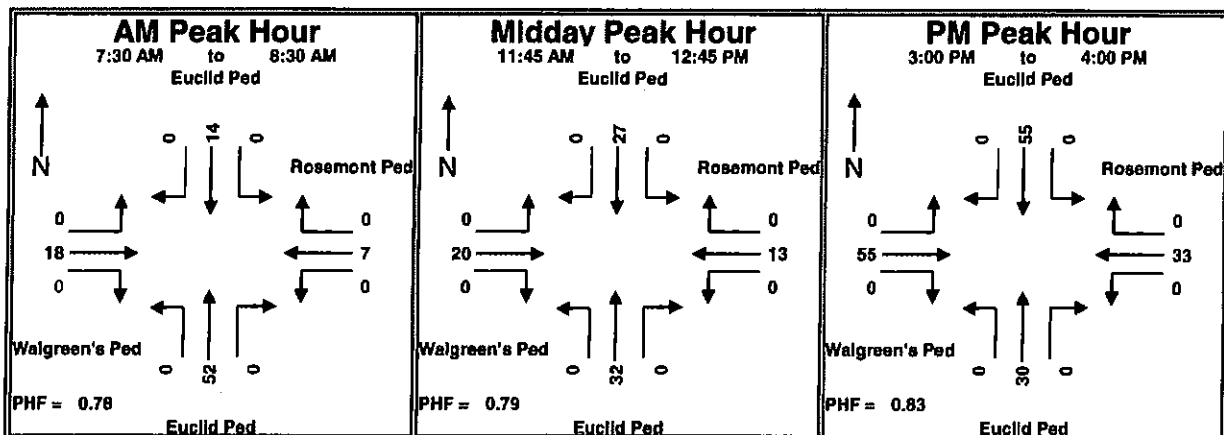


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Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Walgreen's Ped Eastbound				Rosemont Ped Westbound				Total East West	Total All Dlr.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	210	0	0	0	198	0	0	408	0	242	0	0	0	139	0	0	381	787
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	328	0	0	0	304	0	0	630	0	375	0	0	0	218	0	0	591	1221



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Wagners and Rosemont Rd
 LOCATION IN CITY/VILLAGE/RURAL: Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 2 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION SET: _____
 CALC. BY: _____ CKD BY: _____

ADDITIONAL ITEMS ATTACHED

- SKETCH OR DRAWING
- VEHICULAR VOLUME COUNT
- TRAFFIC PROJECTION
- ACCIDENT DATA
- PEDESTRIAN COUNT
- GAP ANALYSIS
- SPEED DATA
- DELAY ANALYSIS
- TIME/SPACE DIAGRAM
- GROUND PHOTOGRAPHS
- AERIAL PHOTOGRAPHS
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- OTHER (DESCRIBE):

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 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from: _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system. _____
 Warrant Satisfied? _____

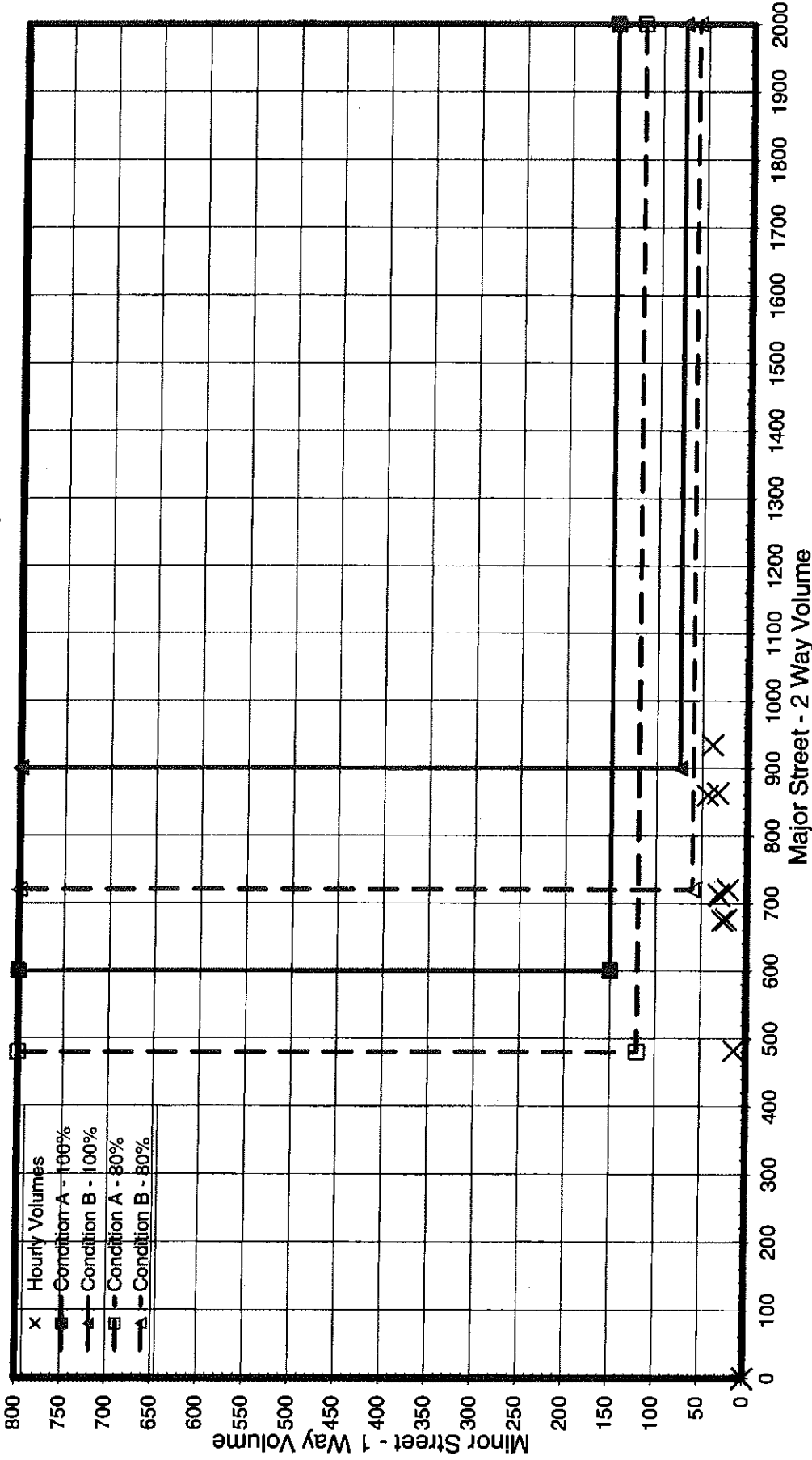
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 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES						WARRANT #1						WARRANT #2		WARRANT #3			
	MAJOR ST		MINOR ST		1-WAY		100%		80%		100%		80%		FOUR HOUR		PEAK HOUR	
	1	2	1	2	1	2	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	NO	NO	NO	NO
NORM	1	2	1	2	1	2	500	150	400	120	750	75	600	60				
70%	1	2	1	2	1	2	350	105	280	84	525	53	420	42				
	1	2	1	2	1	2	420	140	336	112	630	70	504	56				
MID-1AM	0	0	0	0	0	0												
1AM-2AM	0	0	0	0	0	0												
2AM-3AM	0	0	0	0	0	0												
3AM-4AM	0	0	0	0	0	0												
4AM-5AM	0	0	0	0	0	0												
5AM-6AM	0	0	0	0	0	0												
6AM-7AM	0	0	0	0	0	0												
7AM-8AM	482	4	13															
8AM-9AM	676	23	23															
9AM-10AM	720	21	5															
10AM-11AM	0	0	0															
11AM-NOON	674	27	23															
NOON-1PM	711	30	15															
1PM-2PM	713	31	10															
2PM-3PM	0	0	0															
3PM-4PM	934	39	10															
4PM-5PM	863	33	18															
5PM-6PM	860	44	22															
6PM-7PM	0	0	0															
7PM-8PM	0	0	0															
8PM-9PM	0	0	0															
9PM-10PM	0	0	0															
10PM-11PM	0	0	0															
11PM-MID	0	0	0															
HOURS MET																		
WARRANT SATISFIED?																		
NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO																		

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

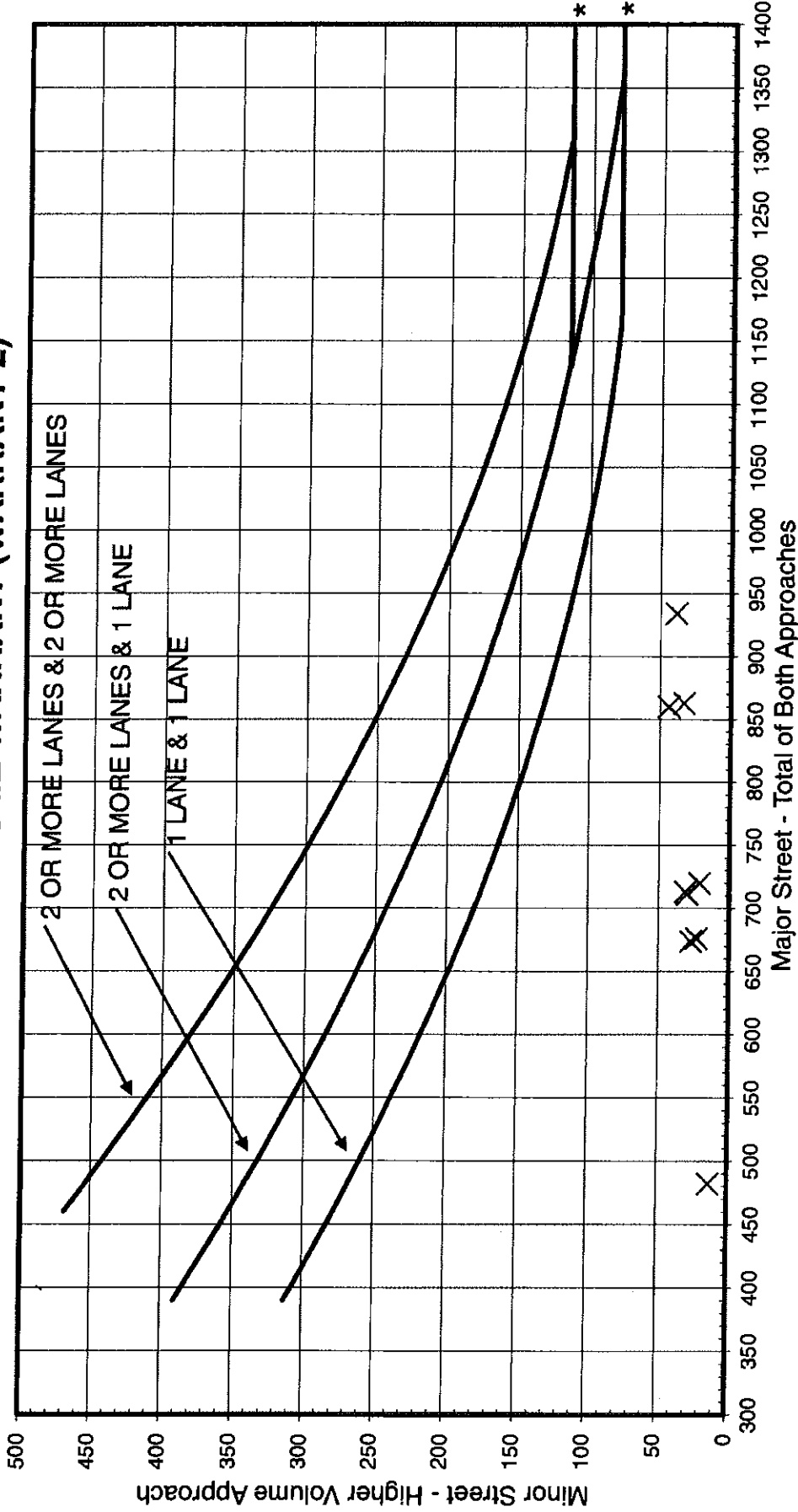


Major Road =	Elucid Ave	Lanes	2
Minor Road =	Walgreen's and Rosemont F		1
Road Location =	Urban		
Condition A (100%) =	0 Hours Meet	Warrant Met?	No
Condition B (100%) =	0 Hours Meet		No
Condition A (80%) =	0 Hours Meet		No
Condition B (80%) =	0 Hours Meet		No

Day of Week	Date & Year	From	To	Weather
Wednesday	May 18, 2011	7:00 AM	10:00 AM	
Wednesday	May 18, 2011	11:00 AM	2:00 PM	
Wednesday	May 18, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



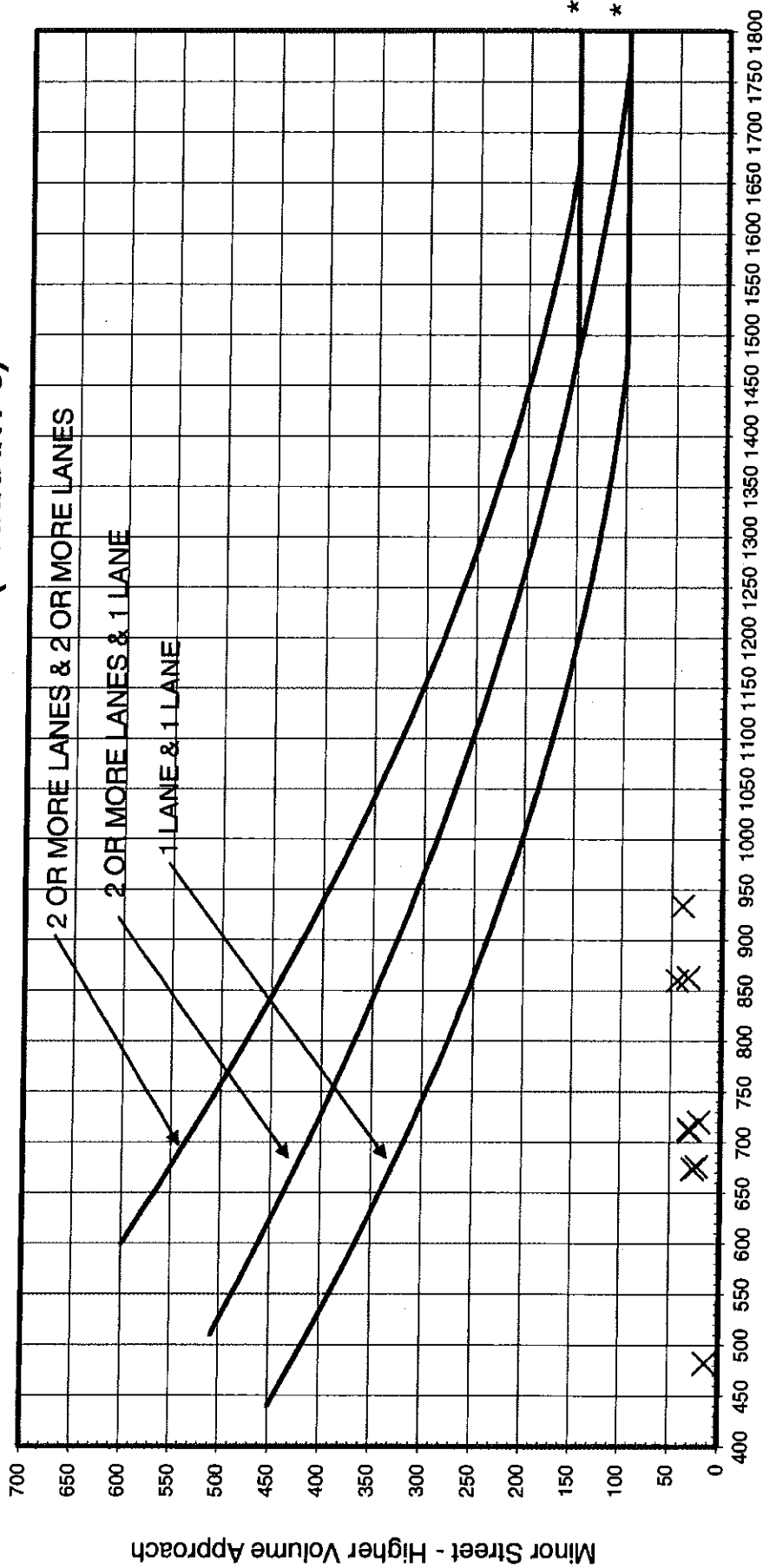
584 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	From	To	Weather
Wednesday	May 18, 2011	7:00 AM	10:00 AM	
Wednesday	May 18, 2011	11:00 AM	2:00 PM	
Wednesday	May 18, 2011	3:00 PM	6:00 PM	

Major Road = Lanes
 Minor Road =
 Road Location =

Warrant 2 (Urban) = Hours Meet Warrant Met?

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

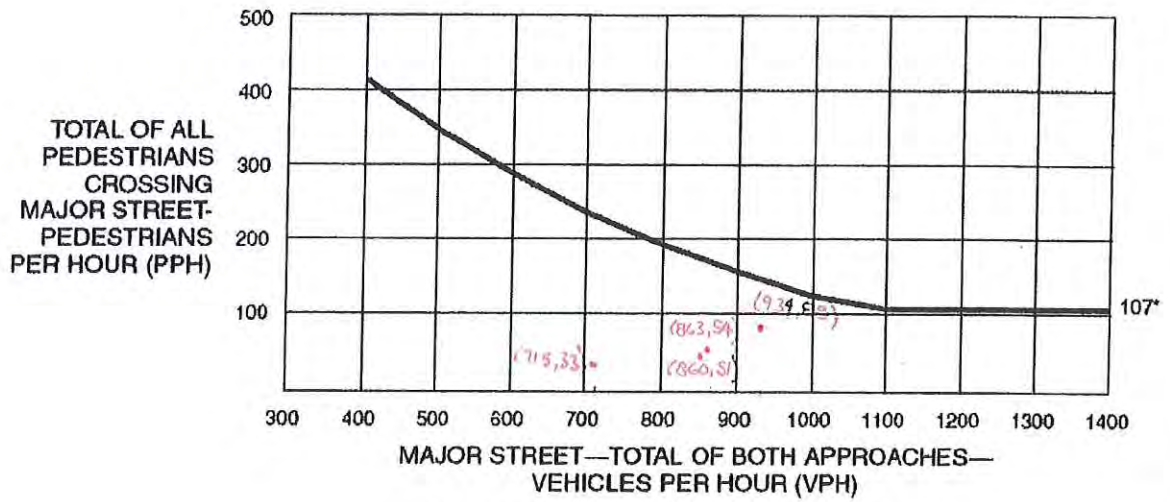
Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Wednesday	May 18, 2011	7:00 AM	10:00 AM	
Wednesday	May 18, 2011	11:00 AM	2:00 PM	
Wednesday	May 18, 2011	3:00 PM	6:00 PM	



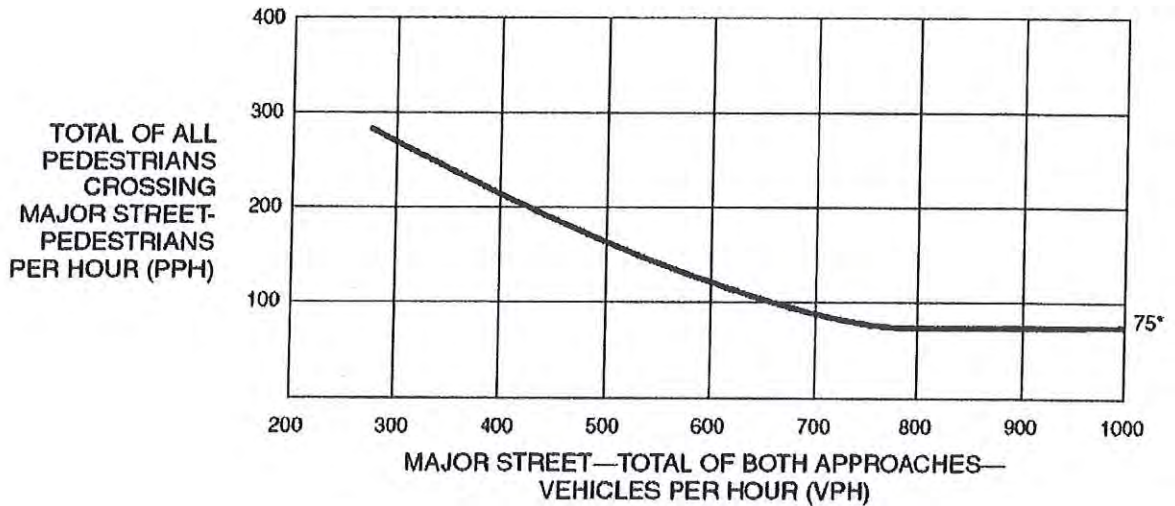
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Figure 4C-5. Warrant 4, Pedestrian Four-Hour Volume



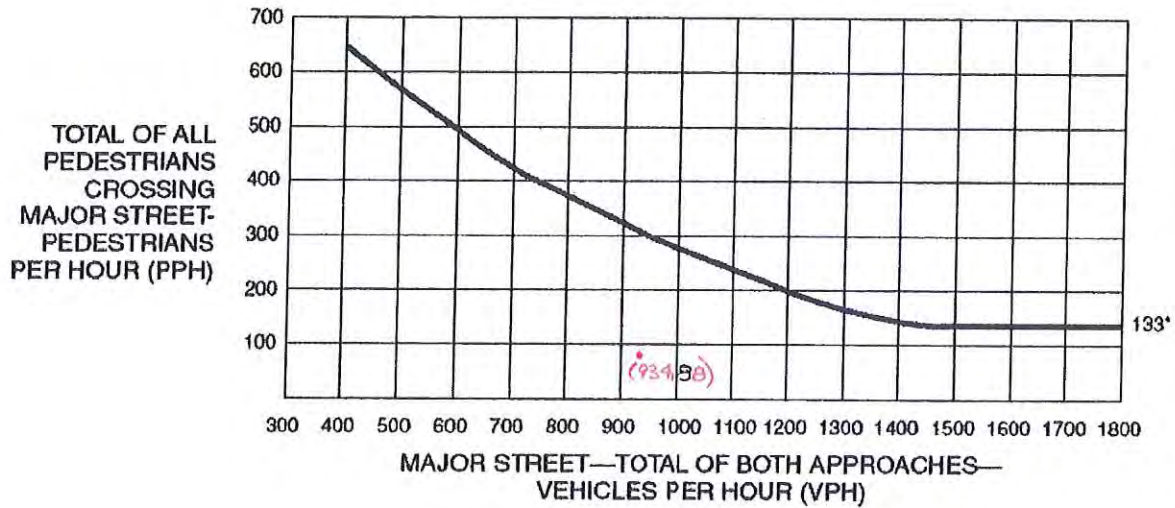
*Note: 107 pph applies as the lower threshold volume.

Figure 4C-6. Warrant 4, Pedestrian Four-Hour Volume (70% Factor)



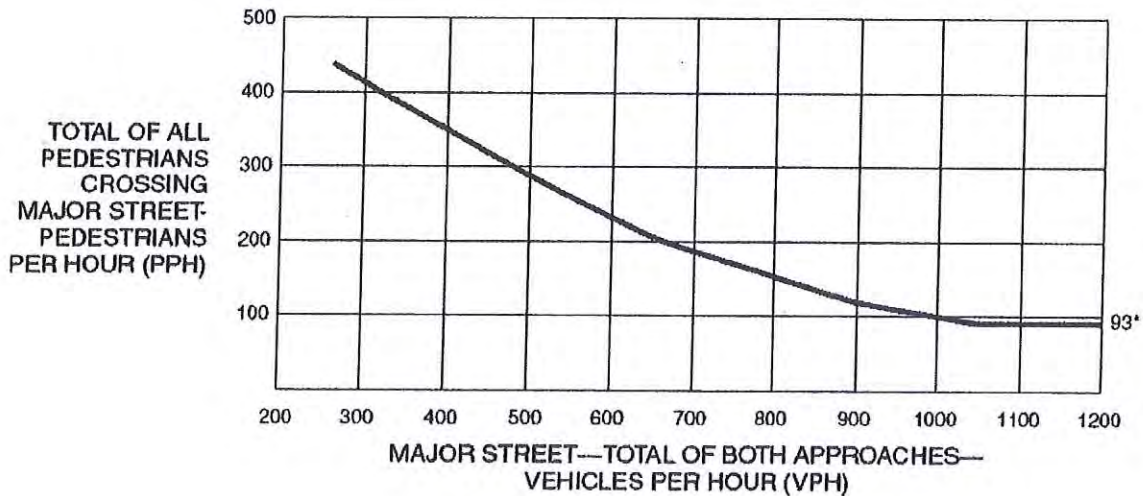
*Note: 75 pph applies as the lower threshold volume.

Figure 4C-7. Warrant 4, Pedestrian Peak Hour



*Note: 133 pph applies as the lower threshold volume.

Figure 4C-8. Warrant 4, Pedestrian Peak Hour (70% Factor)



*Note: 93 pph applies as the lower threshold volume.

15-Minute Count Data RTA Dr and Euclid Ave



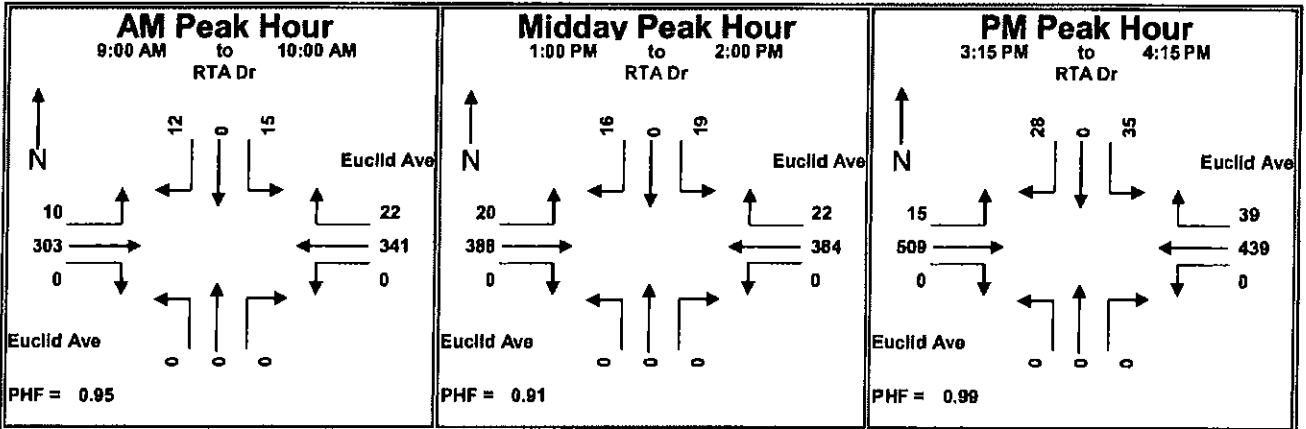
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 2, 2011	7:00 AM	10:00 AM	
0.886	Thursday	June 2, 2011	11:00 AM	2:00 PM	
0.886	Thursday	June 2, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Northbound				RTA Dr Southbound				Total North South	Euclid Ave Eastbound				Euclid Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	0	0	0	203	0	177	1	380	129	3240	3	93	0	3253	263	86	6888	7268
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 3%				Percent Trucks = 2%					
ADT	0	0	0	0	306	0	267	2	573	194	4882	5	140	0	4902	396	130	10379	10951



Notes:

SIGNAL WARRANT



INTERSECTION: RTA Dr and Euclid Ave
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 0 E: 2 W: 2
 PRESENTLY SIGNALIZED? Yes No DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY:

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION SECT: _____
 CALC. BY: _____ CKD BY: _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #3 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____ NO
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____ TWO-WAY
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ NO

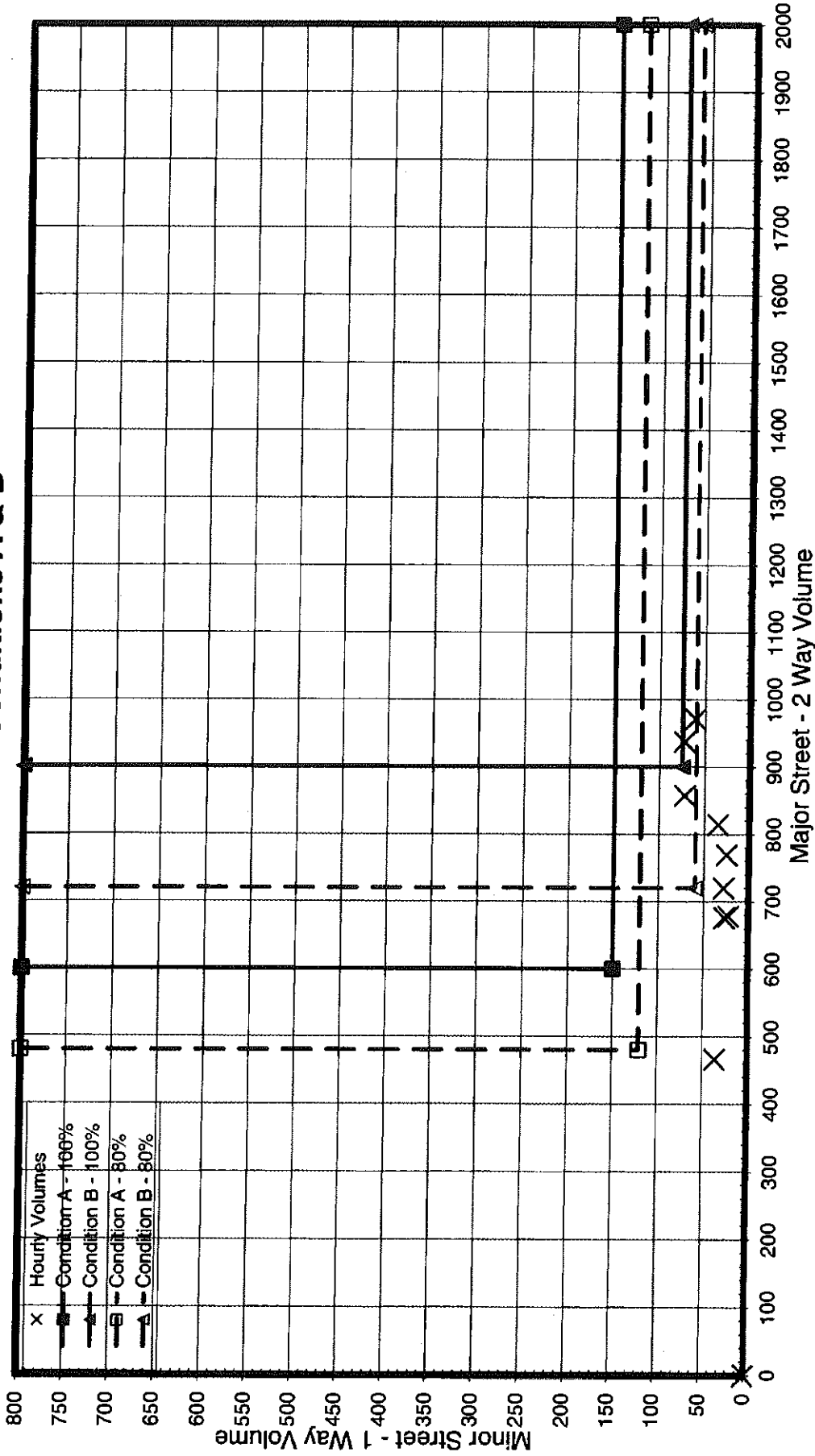
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT	
		MAJOR ST		MINOR ST		100%		80%		100%		80%		#2	#3		
		1-WAY	2-WAY	1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	FOUR HOUR	PEAK HOUR		
NORM	2+	X		500	150	400	120	750	600	60							
70%	2+		X	600	200	480	160	900	100	80							
	1			350	105	280	84	525	53	420	42						
	2+			420	140	336	112	630	70	504	56						
MID-1AM		0	0	0	0	0	0	0	0	0	0						
1AM-2AM		0	0	0	0	0	0	0	0	0	0						
2AM-3AM		0	0	0	0	0	0	0	0	0	0						
3AM-4AM		0	0	0	0	0	0	0	0	0	0						
4AM-5AM		0	0	0	0	0	0	0	0	0	0						
5AM-6AM		0	0	0	0	0	0	0	0	0	0						
6AM-7AM		0	0	0	0	0	0	0	0	0	0						
7AM-8AM		466	0	0	0	36	0	0	0	0	0						
8AM-9AM		678	0	0	23	X	0	0	0	0	0						
9AM-10AM		676	0	0	27	X	0	0	0	0	0						
10AM-11AM		0	0	0	0	0	0	0	0	0	0						
11AM-NOON		720	0	0	28	X	0	0	0	0	0						
NOON-1PM		769	0	0	25	X	0	0	0	0	0						
1PM-2PM		814	0	0	35	X	0	0	0	0	0						
2PM-3PM		0	0	0	0	0	0	0	0	0	0						
3PM-4PM		971	0	0	61	X	0	0	0	0	0						
4PM-5PM		837	0	0	73	X	0	0	0	0	0						
5PM-6PM		857	0	0	72	X	0	0	0	0	0						
6PM-7PM		0	0	0	0	0	0	0	0	0	0						
7PM-8PM		0	0	0	0	0	0	0	0	0	0						
8PM-9PM		0	0	0	0	0	0	0	0	0	0						
9PM-10PM		0	0	0	0	0	0	0	0	0	0						
10PM-11PM		0	0	0	0	0	0	0	0	0	0						
11PM-MID		0	0	0	0	0	0	0	0	0	0						
HOURS MET													0	0	0	0	
WARRANT SATISFIED?													NO	NO	NO	NO	

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

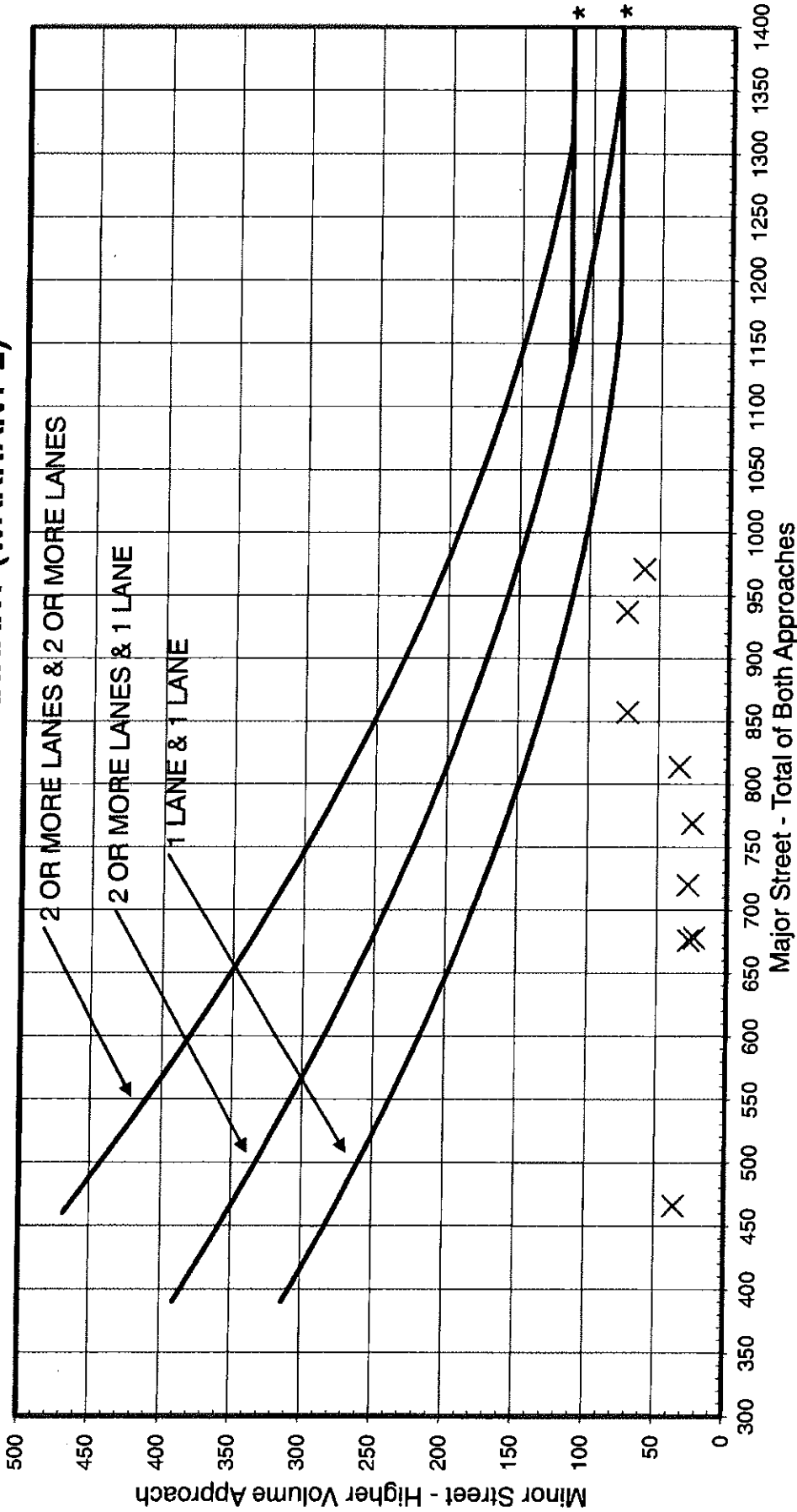


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Day of Week	Date & Year	From	To	Weather
Thursday	June 2, 2011	7:00 AM	10:00 AM	
Thursday	June 2, 2011	11:00 AM	2:00 PM	
Thursday	June 2, 2011	3:00 PM	6:00 PM	

Major Road =	Euclid Ave	Lanes	2
Minor Road =	RTA Dr	Lanes	1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Meet	No	
Condition B (100%) =	0 Hours Meet	No	
Condition A (80%) =	0 Hours Meet	No	
Condition B (80%) =	3 Hours Meet	No	

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Euclid Ave Lanes 2

Minor Road = RTA Dr Lanes 1

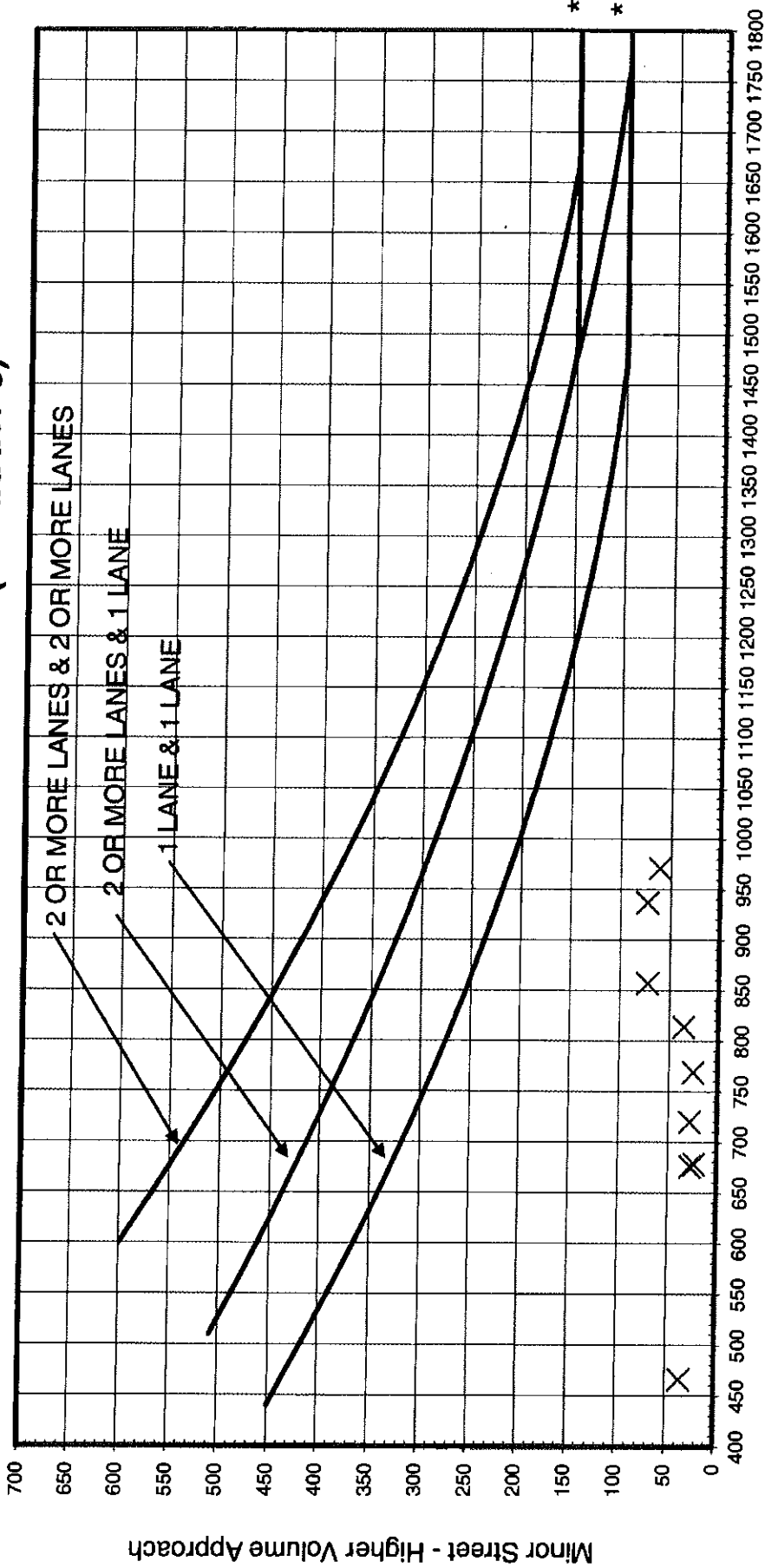
Road Location = Urban

Warrant 2 (Urban) = 0 Hours Meet | Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Thursday	June 2, 2011	7:00 AM	10:00 AM	
Thursday	June 2, 2011	11:00 AM	2:00 PM	
Thursday	June 2, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Euclid Ave
 Minor Road = RTA Dr
 Road Location = Urban

Day of Week	Date & Year	From	To	Weather
Thursday	June 2, 2011	7:00 AM	10:00 AM	
Thursday	June 2, 2011	11:00 AM	2:00 PM	
Thursday	June 2, 2011	3:00 PM	6:00 PM	

Warrant 3 (Urban) = 0 Hours Meet NO Warrant Met?

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.896.9111
 Fax: 330.896.9115

15-Minute Count Data Euclid Ave and Shaw Ave



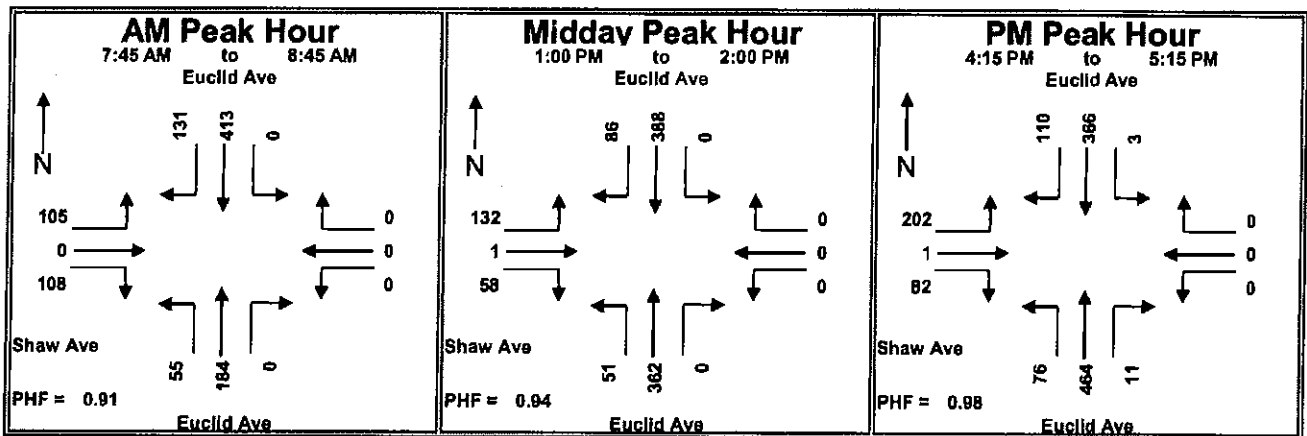
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.912	Wednesday	May 11, 2011	7:00 AM	10:00 AM	
0.912	Wednesday	May 11, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Shaw Ave Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	577	2868	11	45	3	3137	847	127	7443	1134	4	695	28	0	0	0	0	1833	9276
	Percent Trucks = 1%				Percent Trucks = 3%					Percent Trucks = 2%				Percent Trucks = 0%					
ADT	895	4448	17	70	5	4866	1314	197	11544	1759	6	1078	43	0	0	0	0	2843	14387



Notes:

Euclid/Shaw
 Bus Counts
 May 11, 2011

File Name : 2056-5-11-2011 m
 Site Code : 05112011
 Start Date : 05/11/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0
09:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
09:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
09:30 AM	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0
09:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0

15-Minute Count Data Euclid Ped and Shaw Ped



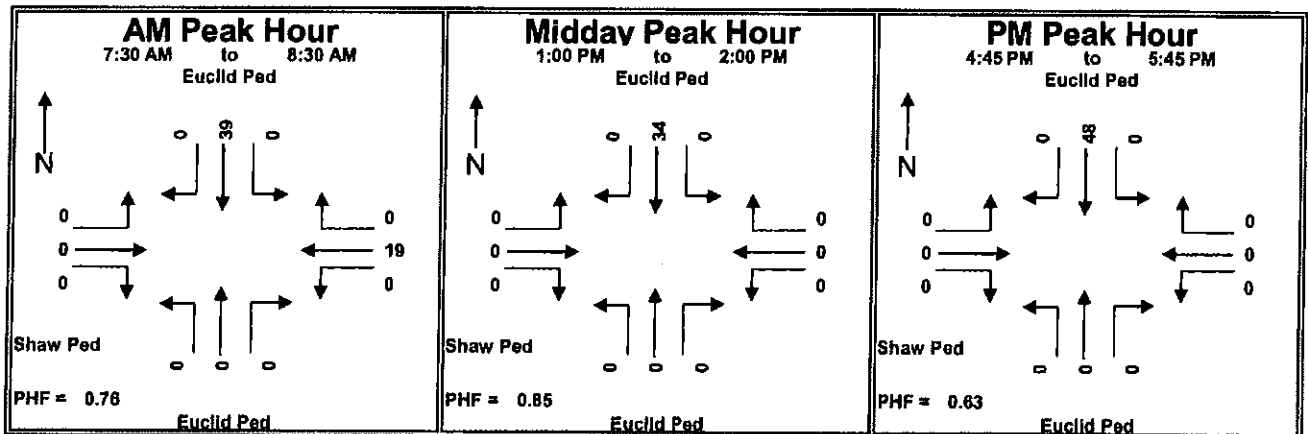
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.912	Wednesday	May 11, 2011	7:00 AM	10:00 AM	
0.912	Wednesday	May 11, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Shaw Ped Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	0	0	0	0	274	0	0	274	0	0	0	0	0	21	0	0	21	295
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	0	0	0	0	425	0	0	425	0	0	0	0	0	33	0	0	33	458



Notes:

SIGNAL WARRANT

INTERSECTION: Euclid Ave and Shaw Ave / Urban
 LOCATED IN CITY/VILLAGE/URIAL: N:2 S:2 E:0 W:1
 NUMBER OF LANES PER APPROACH: Yes Does 70% Warrant Apply? NO
 PRESENTLY SIGNALIZED? Yes No
 MAINTAINING AGENCY: _____



CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION SECT: _____
 CALC. BY: _____ CKD BY: _____

ADDITIONAL ITEMS ATTACHED

SKETCH OR DRAWING _____
 VEHICULAR VOLUME COUNT _____
 TRAFFIC PROJECTION _____
 ACCIDENT DATA _____
 PEDESTRIAN COUNT _____
 GAP ANALYSIS _____

SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

OTHER (DESCRIBE): _____

COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT #1	WARRANT #2	WARRANT #3
		MINOR ST		100%		80%		100%		80%		100%						
		2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR					
NORM	1		X	500	150	400	120	750	75	600	60							
	2+	X		600	200	480	160	900	100	720	80							
70%	1			350	105	280	84	525	53	420	42							
	2+			420	140	336	112	630	70	504	56							
MID-1AM	0	0	0															
1AM-2AM	0	0	0															
2AM-3AM	0	0	0															
3AM-4AM	0	0	0															
4AM-5AM	0	0	0															
5AM-6AM	0	0	0															
6AM-7AM	0	0	0															
7AM-8AM	542	141	0			X	X			X	X							
8AM-9AM	739	223	0	X	X	X	X			X	X							
9AM-10AM	706	172	0	X	X	X	X			X	X							
10AM-11AM	0	0	0															
11AM-NOON	802	171	0	X	X	X	X			X	X							
NOON-1PM	789	151	0	X	X	X	X			X	X							
1PM-2PM	887	191	0	X	X	X	X			X	X							
2PM-3PM	0	0	0															
3PM-4PM	995	237	0	X	X	X	X			X	X							
4PM-5PM	1000	294	0	X	X	X	X			X	X							
5PM-6PM	1003	263	0	X	X	X	X			X	X							
6PM-7PM	0	0	0															
7PM-8PM	0	0	0															
8PM-9PM	0	0	0															
9PM-10PM	0	0	0															
10PM-11PM	0	0	0															
11PM-MID	0	0	0															
HOURS MET				8	9	9	3	7										
WARRANT SATISFIED?				YES	YES	YES	NO	NO										

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. **NO**

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ **NO**

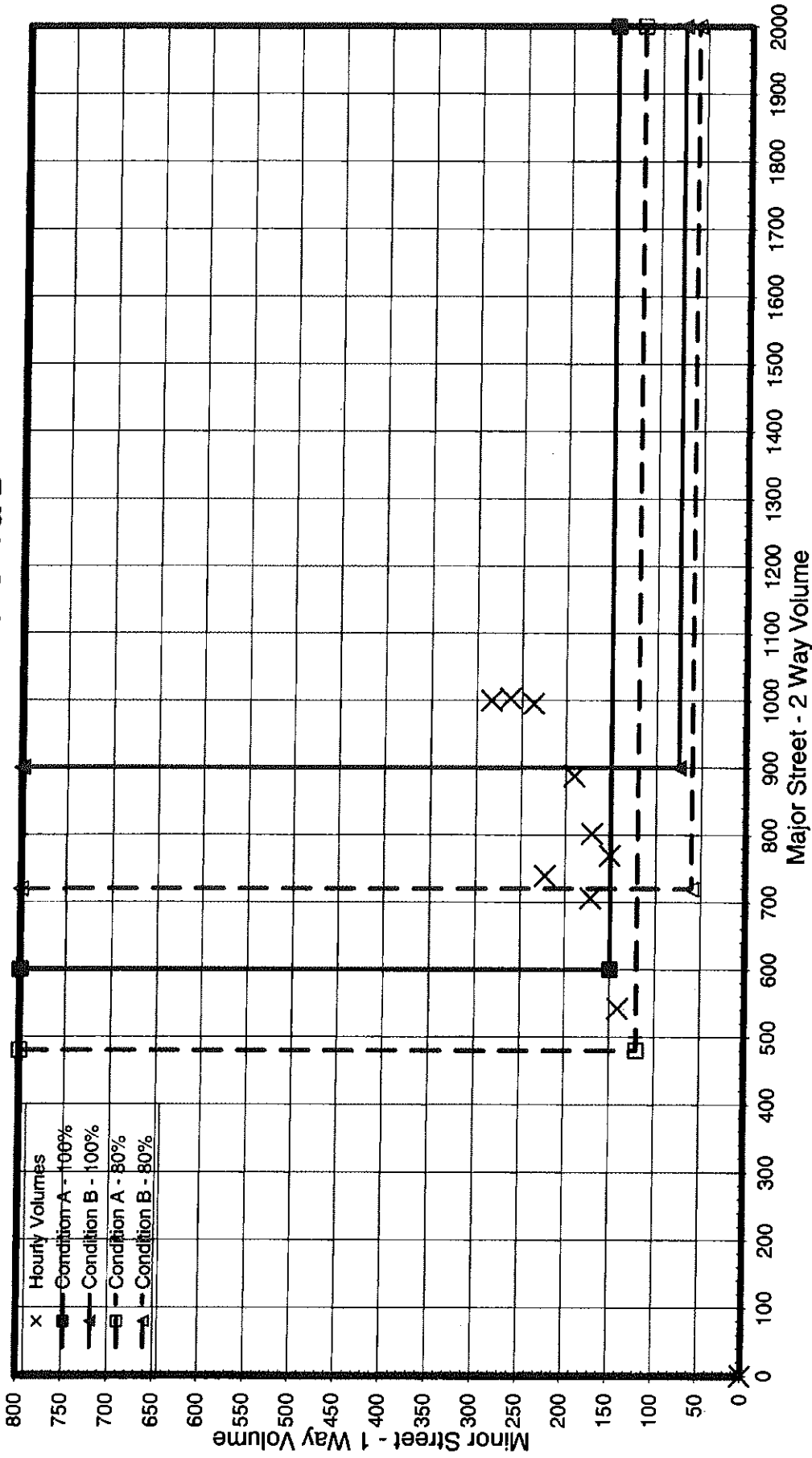
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ **NO**

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ **NO**

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets characteristic requirements? _____
 Warrant Satisfied? _____ **NO**

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

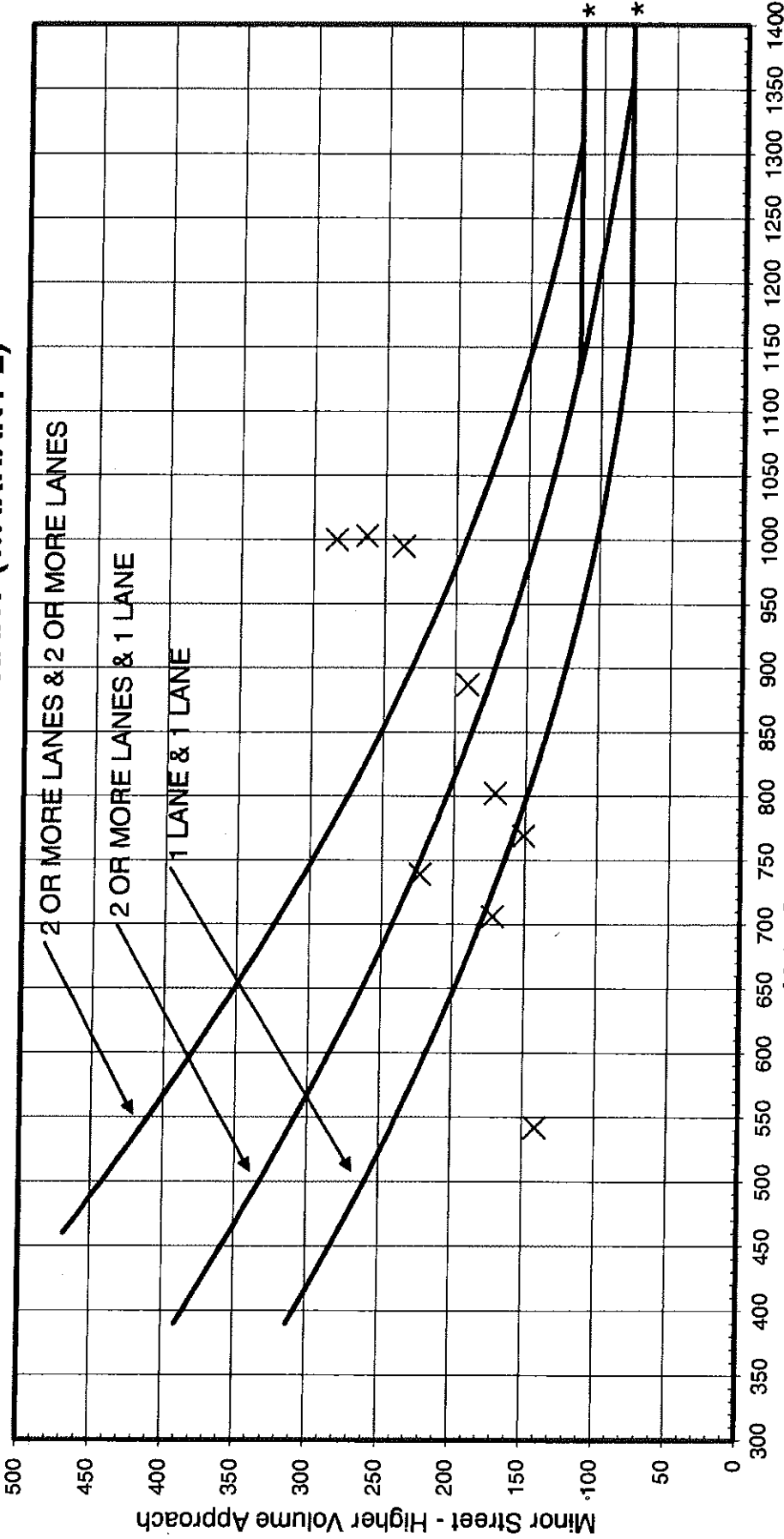
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	From	To	Weather
Wednesday	May 11, 2011	7:00 AM	10:00 AM	
Wednesday	May 11, 2011	11:00 AM	2:00 PM	
Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Shaw Ave	Lanes	1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	8 Hours Meet	Yes	
Condition B (100%) =	3 Hours Meet	No	
Condition A (80%) =	9 Hours Meet	Yes	
Condition B (80%) =	7 Hours Meet	No	

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



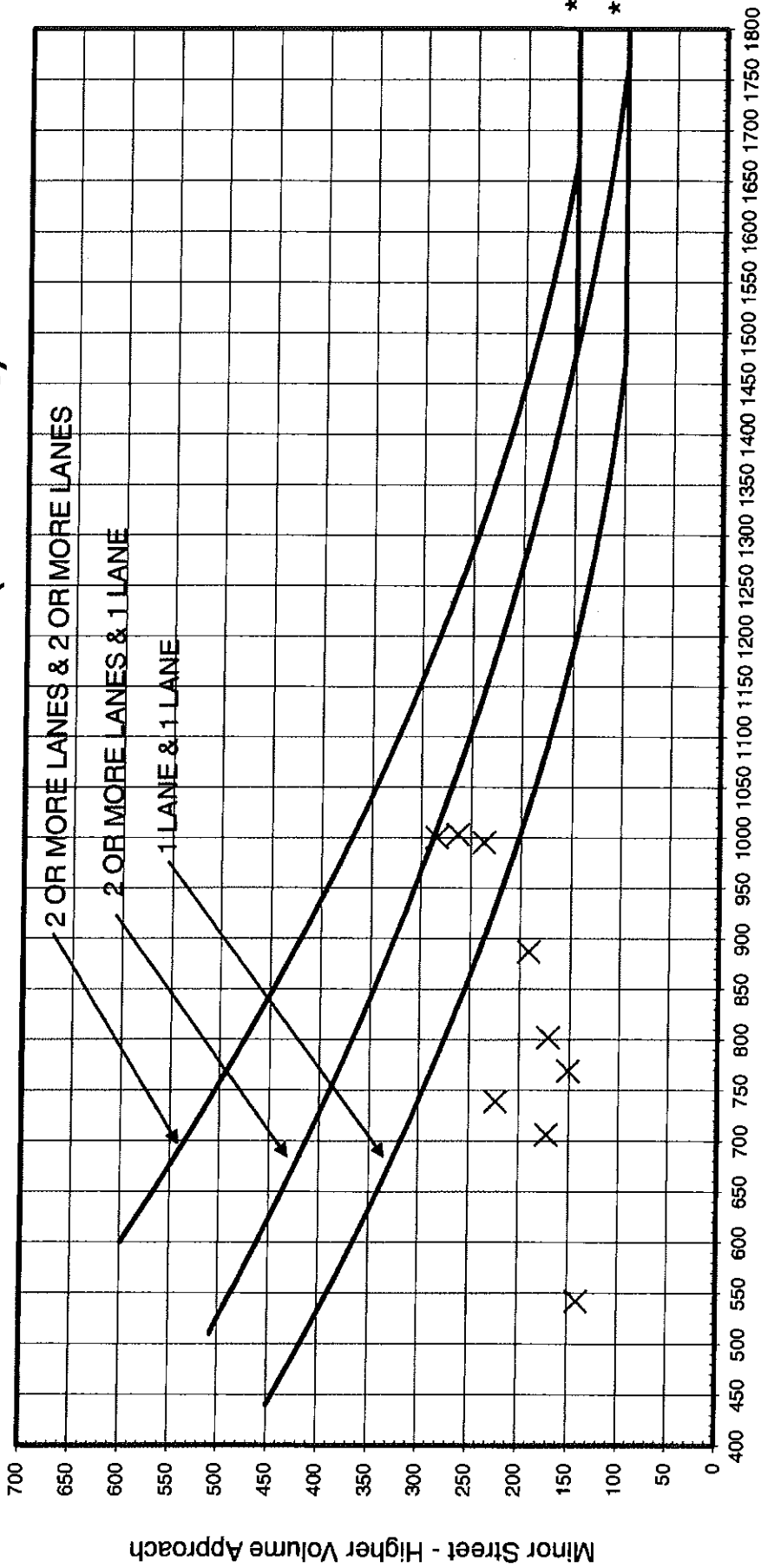
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Shaw Ave		1
Road Location =	Urban		

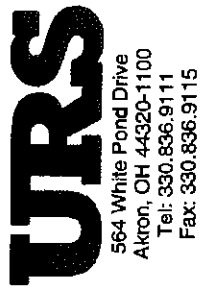
Warrant 2 (Urban) = 5 Hours Meet Warrant Met? YES

Day of Week	Date & Year	From	To	Weather
Wednesday	May 11, 2011	7:00 AM	10:00 AM	
Wednesday	May 11, 2011	11:00 AM	2:00 PM	
Wednesday	May 11, 2011	3:00 PM	6:00 PM	

PEAK HOUR VOLUME WARRANT (WARRANT 3)



* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	May 11, 2011	7:00 AM	10:00 AM	
Wednesday	May 11, 2011	11:00 AM	2:00 PM	
Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

15-Minute Count Data

Euclid Ave and Strathmore Ave and Stanwood Rd



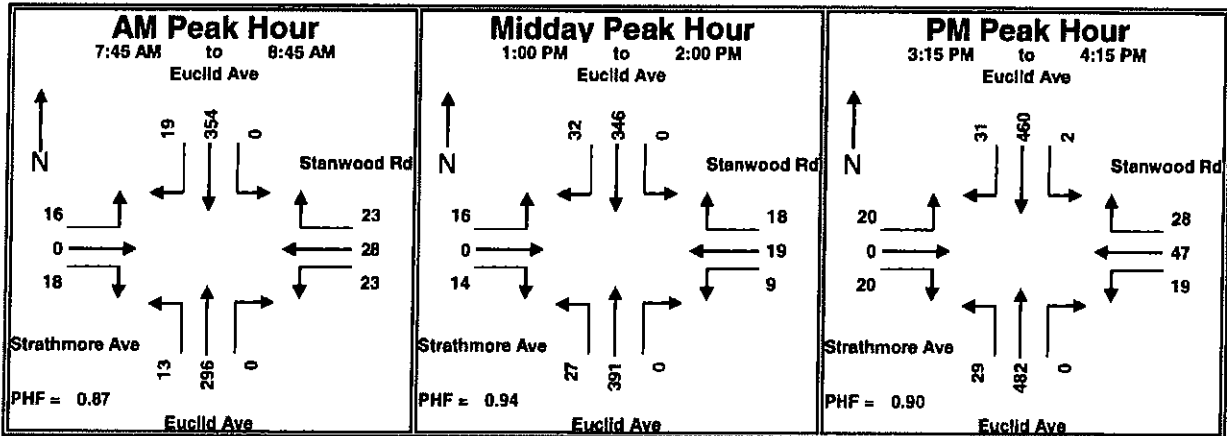
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 17, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 17, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 17, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70

Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Strathmore Ave Eastbound				Stanwood Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	165	3162	1	48	3	3317	202	83	8850	131	0	140	5	102	199	178	2	750	7600
	Percent Trucks = 1%				Percent Trucks = 2%					Percent Trucks = 2%				Percent Trucks = 0%					
ADT	258	4947	2	72	5	5190	316	130	10718	205	0	219	8	160	311	279	3	1173	11891
7:00 AM	3	37	0	1	0	50	6	2	96	1	0	0	1	1	1	5	0	8	104
7:15 AM	2	45	0	0	0	62	8	2	117	2	0	0	0	2	3	1	0	8	125
7:30 AM	0	47	0	1	0	101	2	2	150	1	0	4	1	2	3	5	0	15	165
7:45 AM	1	65	0	0	0	90	0	6	156	4	0	3	0	6	4	7	1	24	180
8:00 AM	2	74	0	1	0	85	12	3	173	7	0	6	0	2	7	3	0	25	198
8:15 AM	2	92	0	0	0	94	2	2	190	2	0	8	0	9	14	5	0	38	228
8:30 AM	8	65	0	0	0	85	5	4	163	3	0	1	0	6	3	8	0	21	164
8:45 AM	3	64	0	0	0	85	4	2	156	2	0	7	0	2	0	12	0	23	179
9:00 AM	0	48	0	0	0	70	0	0	116	8	0	3	0	2	10	6	0	29	145
9:15 AM	2	60	0	0	0	75	4	0	141	3	0	4	0	1	6	5	0	19	160
9:30 AM	3	55	0	2	0	94	3	3	155	2	0	2	0	2	1	5	0	12	167
9:45 AM	2	86	0	1	0	87	7	5	182	7	0	1	1	2	5	5	0	20	202
11:00 AM	1	83	0	4	0	74	3	4	161	3	0	5	1	1	1	4	0	14	175
11:15 AM	5	61	0	2	0	95	3	4	164	1	0	3	0	1	4	3	0	12	176
11:30 AM	9	74	0	3	0	93	7	7	183	3	0	3	0	4	1	6	0	17	200
11:45 AM	2	87	0	1	0	110	8	2	207	7	0	3	0	4	1	3	0	18	225
12:00 PM	9	81	0	3	0	95	3	3	188	5	0	4	1	2	4	4	1	19	207
12:15 PM	4	81	0	3	0	79	4	2	168	1	0	2	0	0	2	2	0	7	175
12:30 PM	7	67	0	3	0	88	3	4	165	2	0	4	0	2	6	5	0	19	184
12:45 PM	5	88	0	1	0	86	4	1	181	2	0	2	0	3	2	4	0	13	194
1:00 PM	6	85	0	2	0	78	5	2	174	4	0	3	0	2	3	5	0	17	191
1:15 PM	8	95	0	1	0	105	4	1	212	5	0	4	0	0	5	2	0	18	228
1:30 PM	4	105	0	0	0	74	17	4	200	5	0	3	0	2	5	5	0	20	220
1:45 PM	9	106	0	1	0	89	6	2	210	2	0	4	0	5	6	6	0	23	233
3:00 PM	4	119	0	2	0	103	10	2	236	4	0	7	0	7	9	6	0	33	269
3:15 PM	10	128	0	2	0	127	9	1	274	3	0	6	0	9	13	11	0	42	316
3:30 PM	3	129	0	2	0	112	17	3	261	7	0	6	0	4	14	5	0	38	297
3:45 PM	8	86	0	0	0	108	4	1	204	5	0	2	0	2	10	6	0	25	229
4:00 PM	8	139	0	0	2	115	1	2	265	5	0	6	0	4	10	6	0	31	296
4:15 PM	3	135	0	3	1	105	8	1	252	4	0	6	0	3	10	2	0	25	277
4:30 PM	3	110	1	1	0	115	5	1	234	5	0	5	0	1	6	6	0	23	257
4:45 PM	5	119	0	2	0	106	4	1	234	5	0	1	0	2	9	4	0	21	255
5:00 PM	3	114	0	1	0	99	5	1	221	0	0	7	0	1	5	7	0	20	241
5:15 PM	2	140	0	1	0	84	5	0	231	3	0	5	0	1	7	0	0	16	247
5:30 PM	10	114	0	0	0	115	5	1	244	2	0	6	0	4	3	5	0	20	264
5:45 PM	9	82	0	2	0	86	9	2	186	6	0	4	0	1	6	4	0	21	207



Notes:

Euclid/Stanwood/Strathmore
Bus Counts
May 17, 2011

File Name : 2056-5-17-20
Site Code : 05172011
Start Date : 05/17/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	6	1	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	6	0	0	0	0	0	0	0
09:00 AM	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0
09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	8	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0

Euclid/Stanwood/Strathmore
 Bus Counts
 May 17, 2011

File Name : 2056-5-17-20
 Site Code : 05172011
 Start Date : 05/17/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	4	0	0	54	1	0	0	0	0	0	5
Apprch %	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	98.2	1.8	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	91.5	1.7	0.0	0.0	0.0	0.0	0.0	

15-Minute Count Data

Euclid Ped and Strathmore Ped and Stanwood Ped



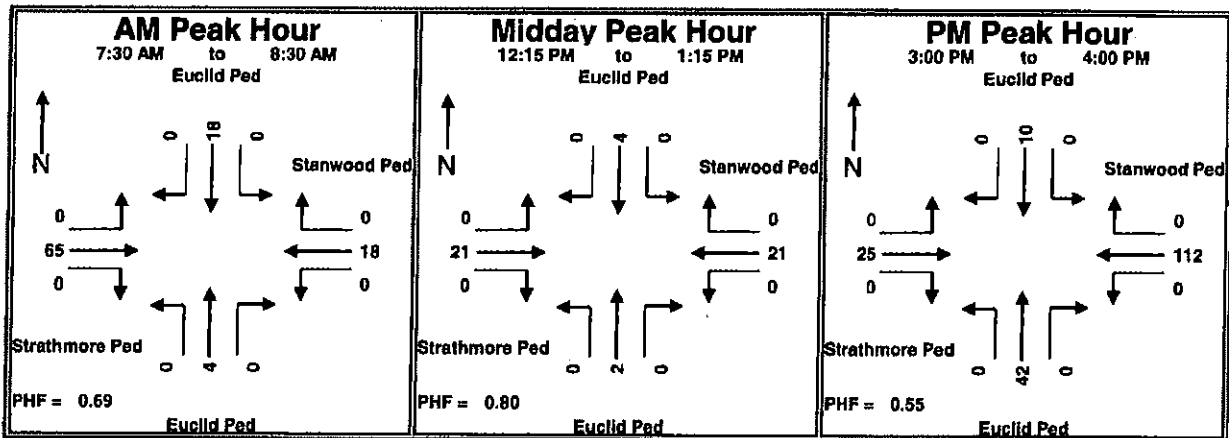
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 17, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 17, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 17, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.70

Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Strathmore Ped Eastbound				Stanwood Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	75	0	0	0	54	0	0	129	0	217	0	0	0	264	0	0	481	610
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	117	0	0	0	84	0	0	202	0	340	0	0	0	413	0	0	753	954



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Stretthmore Ave and Stanwood Rd
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 2 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED

OTHER (DESCRIBE): _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

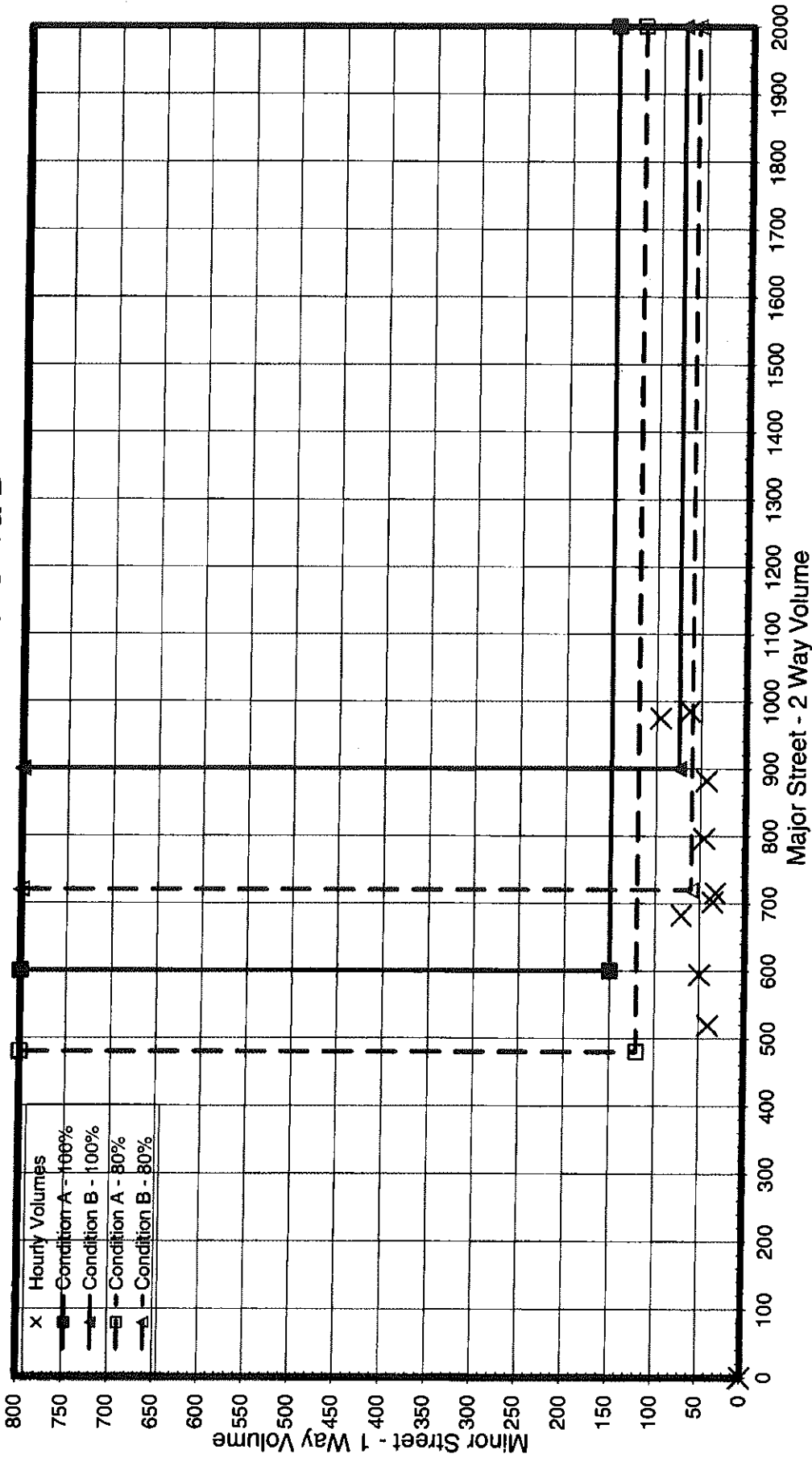
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

COND. TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT #2	WARRANT #3
		MINOR ST		100%		80%		100%		80%		100%		FOUR HOUR	PEAK HOUR		
		2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR				
NORM	2+	X	X	500	150	400	120	750	75	600	60						
	70%			600	200	480	160	900	100	720	80						
				350	105	280	84	525	53	420	42						
				420	140	336	112	630	70	504	56						
MID-1AM	0	0	0														
1AM-2AM	0	0	0														
2AM-3AM	0	0	0														
3AM-4AM	0	0	0														
4AM-5AM	0	0	0														
5AM-6AM	0	0	0														
6AM-7AM	0	0	0														
7AM-8AM	519	15	40			X											
8AM-9AM	682	36	71	X		X											
9AM-10AM	594	30	50	X		X											
10AM-11AM	0	0	0														
11AM-NOON	715	28	33	X		X											
NOON-1PM	702	22	36	X		X											
1PM-2PM	796	30	46	X		X											
2PM-3PM	0	0	0														
3PM-4PM	975	40	96	X		X		X	X	X	X						
4PM-5PM	985	37	63	X		X		X	X	X	X						
5PM-6PM	882	33	44	X		X		X	X	X	X						
6PM-7PM	0	0	0														
7PM-8PM	0	0	0														
8PM-9PM	0	0	0														
9PM-10PM	0	0	0														
10PM-11PM	0	0	0														
11PM-MID	0	0	0														
HOURS MET				0	0	0	0	1	NO	2	NO	0	NO	0	NO	0	
WARRANT SATISFIED?				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

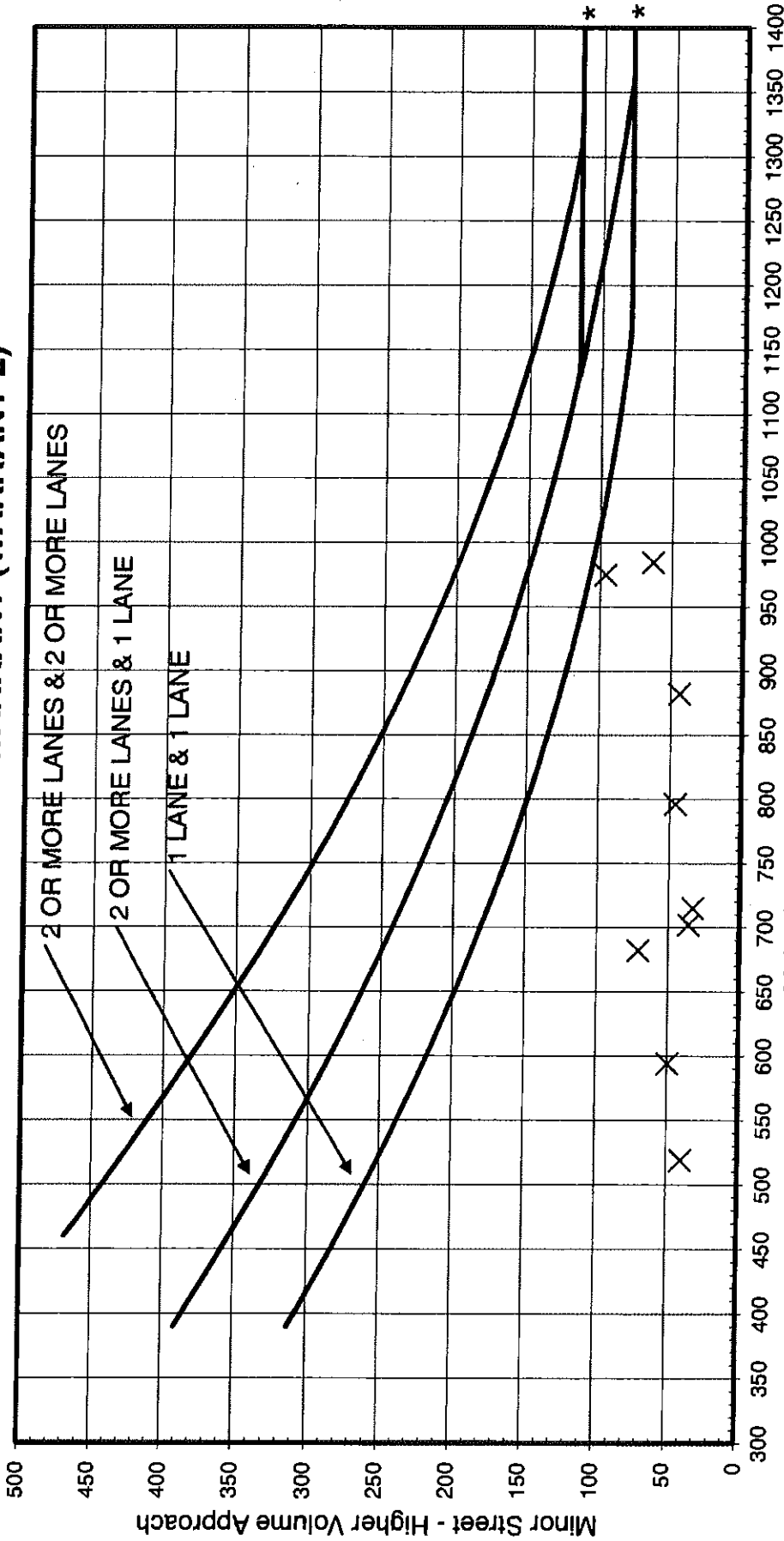


Major Road =	Euclid Ave	Lanes	2
Minor Road =	Strathmore Ave and Stanwix		1
Road Location =	Urban	Warrant Met?	
Condition A (100%) =	0 Hours Meet	No	
Condition B (100%) =	1 Hours Meet	No	
Condition A (80%) =	0 Hours Meet	No	
Condition B (80%) =	2 Hours Meet	No	

Day of Week	Date & Year	From	To	Weather
Tuesday	May 17, 2011	7:00 AM	10:00 AM	
Tuesday	May 17, 2011	11:00 AM	2:00 PM	
Tuesday	May 17, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

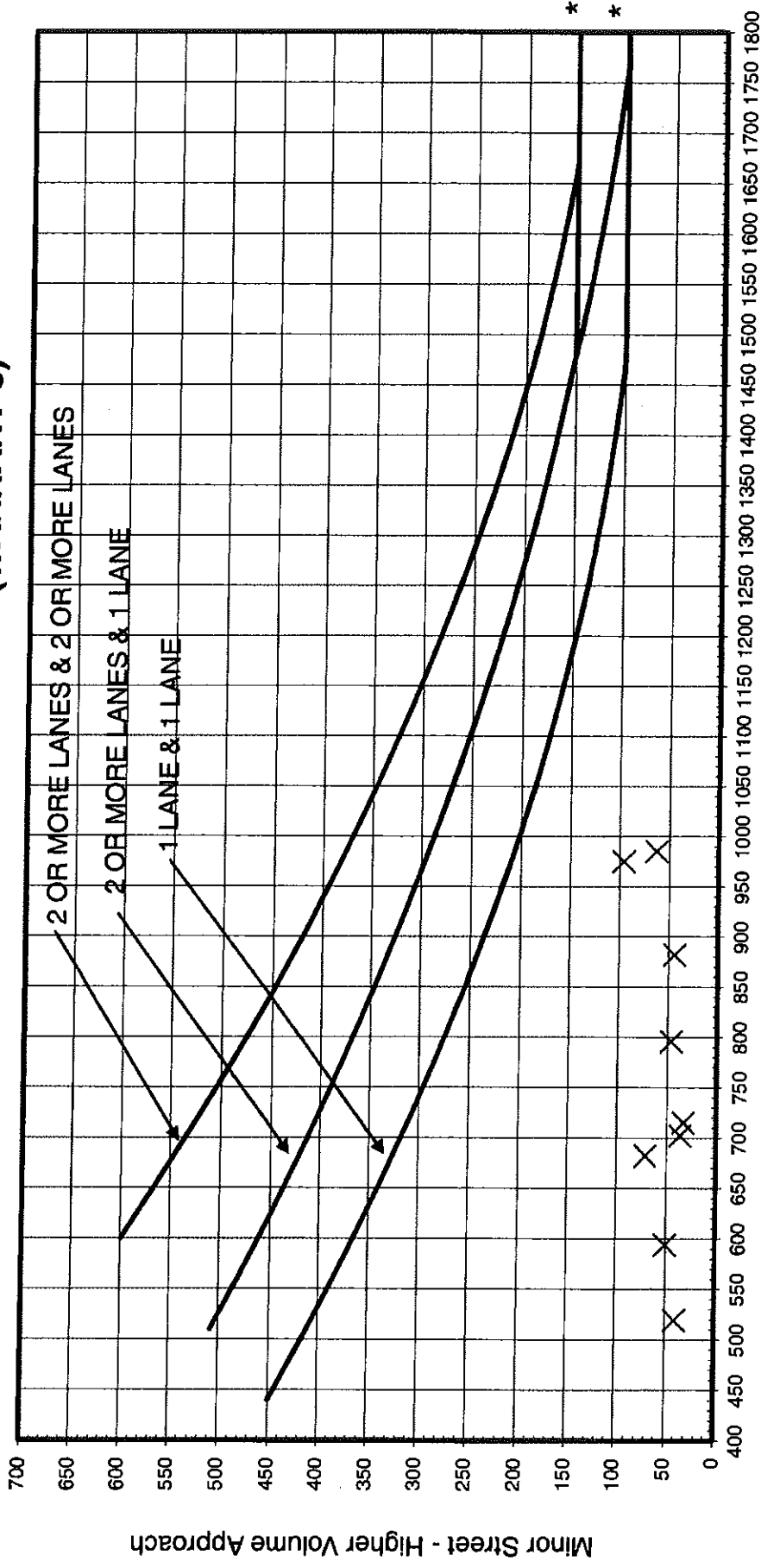
Major Road = Euclid Ave
 Minor Road = Stratmore Ave and Stanwood
 Road Location = Urban

Warrant 2 (Urban) = 0 Hours Meet | Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Tuesday	May 17, 2011	7:00 AM	10:00 AM	
Tuesday	May 17, 2011	11:00 AM	2:00 PM	
Tuesday	May 17, 2011	3:00 PM	6:00 PM	



PEAK HOUR VOLUME WARRANT (WARRANT 3)



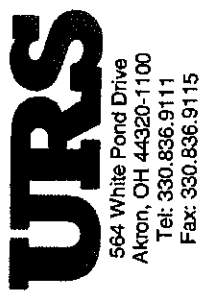
Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Tuesday	May 17, 2011	7:00 AM	10:00 AM	
Tuesday	May 17, 2011	11:00 AM	2:00 PM	
Tuesday	May 17, 2011	3:00 PM	6:00 PM	



15-Minute Count Data Euclid Ave and Superior Rd



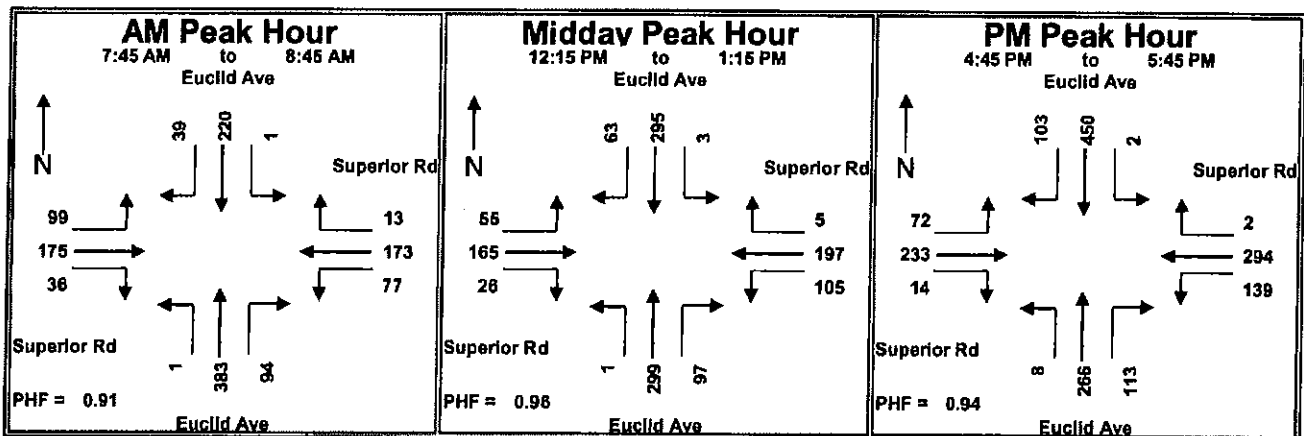
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.912	Wednesday	May 25, 2011	7:00 AM	10:00 AM	
0.912	Wednesday	May 25, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 25, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Superior Rd Eastbound				Superior Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	25	2631	850	39	12	2656	557	78	6731	557	1676	177	30	916	1820	65	40	5211	11942
	Percent Trucks = 1%				Percent Trucks = 2%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	39	4081	1318	60	19	4120	864	121	10440	864	2600	275	47	1421	2823	101	62	8082	18522



Notes:

Euclid/Superior
Bus Counts
May 25, 2011

File Name : 2056-5-25-2011
Site Code : 05252011
Start Date : 05/25/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
Total	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0	
08:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
08:45 AM	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
09:15 AM	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	
09:30 AM	0	0	0	0	0	0	0	0	1	3	0	0	0	1	0	0	
09:45 AM	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	3	5	0	0	0	3	0	0	1
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	
11:15 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	4	0	0	0	3	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	3	1	0	0	5	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	2	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	5	0	0	0	6	0	0	1
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	4	0	0	0	3	0	0	
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
03:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	
03:45 PM	0	0	0	0	0	0	0	0	0	4	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	9	0	0	0	8	0	0	1
04:00 PM	0	0	0	0	0	0	0	0	0	4	0	0	0	1	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	5	0	0	0	1	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	15	0	0	0	3	0	0	1

Euclid/Superior
 Bus Counts
 May 25, 2011

File Name : 2056-5-25-2011
 Site Code : 05252011
 Start Date : 05/25/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Total	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
05:30 PM	0	0	0	0	0	0	0	0	1	2	0	0	0	1	0	0	0	
05:45 PM	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	2	6	0	0	0	2	0	0	0	1
Grand Total	0	0	0	0	0	0	0	0	8	48	1	0	0	34	0	0	0	9
Apprch %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	84.2	1.8	0.0	0.0	100.0	0.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	52.7	1.1	0.0	0.0	37.4	0.0	0.0	0.0	

15-Minute Count Data Euclid Ped and Superior Ped



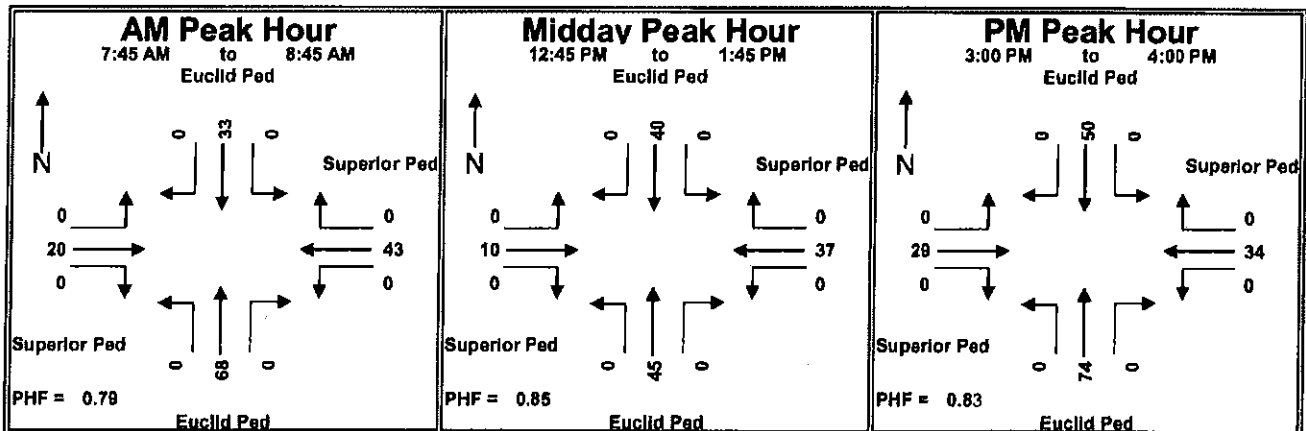
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.912	Wednesday	May 25, 2011	7:00 AM	10:00 AM	
0.912	Wednesday	May 25, 2011	11:00 AM	2:00 PM	
0.912	Wednesday	May 25, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Superior Ped Eastbound				Superior Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	389	0	0	0	329	0	0	718	0	149	0	0	0	312	0	0	461	1179
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	603	0	0	0	510	0	0	1114	0	231	0	0	0	484	0	0	715	1829



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Superior Rd
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N:2 S:2 E:2 W:2
 PRESENTLY SIGNALIZED? Yes
 MAINTAINING AGENCY: DOES 70% WARRANT APPLY? NO

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____

SECT: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED

OTHER (DESCRIBE):

SPEED DATA

VEHICULAR VOLUME COUNT

TRAFFIC PROJECTION

TIME/SPACE DIAGRAM

GROUND PHOTOGRAPHS

AERIAL PHOTOGRAPHS

DOCUMENTATION/EXPLANATION

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT #2	WARRANT #3
	MINOR ST		100%		80%		100%		80%		100%		FOUR HOUR	PEAK HOUR		
	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR				
1			500	150	400	120	750	75	600	60						
NORM 2+	X	X	600	200	480	160	900	100	720	80						
1			350	105	280	84	525	53	420	42						
70% 2+			420	140	336	112	630	70	504	56						
MID-1AM	0	0														
1AM-2AM	0	0														
2AM-3AM	0	0														
3AM-4AM	0	0														
4AM-5AM	0	0														
5AM-6AM	0	0														
6AM-7AM	0	0														
7AM-8AM	583	229		X	X	X		X	X							
8AM-9AM	728	287	X	X	X	X		X	X							
9AM-10AM	581	210		X	X	X		X	X							
10AM-11AM	0	0														
11AM-NOON	654	239	X	X	X	X		X	X							
NOON-1PM	735	248	X	X	X	X		X	X							
1PM-2PM	750	254	X	X	X	X		X	X							
2PM-3PM	0	2														
3PM-4PM	881	327	X	X	X	X		X	X							
4PM-5PM	916	284	X	X	X	X		X	X							
5PM-6PM	933	322	X	X	X	X		X	X							
6PM-7PM	0	0														
7PM-8PM	0	0														
8PM-9PM	0	0														
9PM-10PM	0	0														
10PM-11PM	0	0														
11PM-MID	0	0														
HOURS MET			7			9			2			6				
WARRANT SATISFIED?			NO			YES			NO			NO				

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 150 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____ NO
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

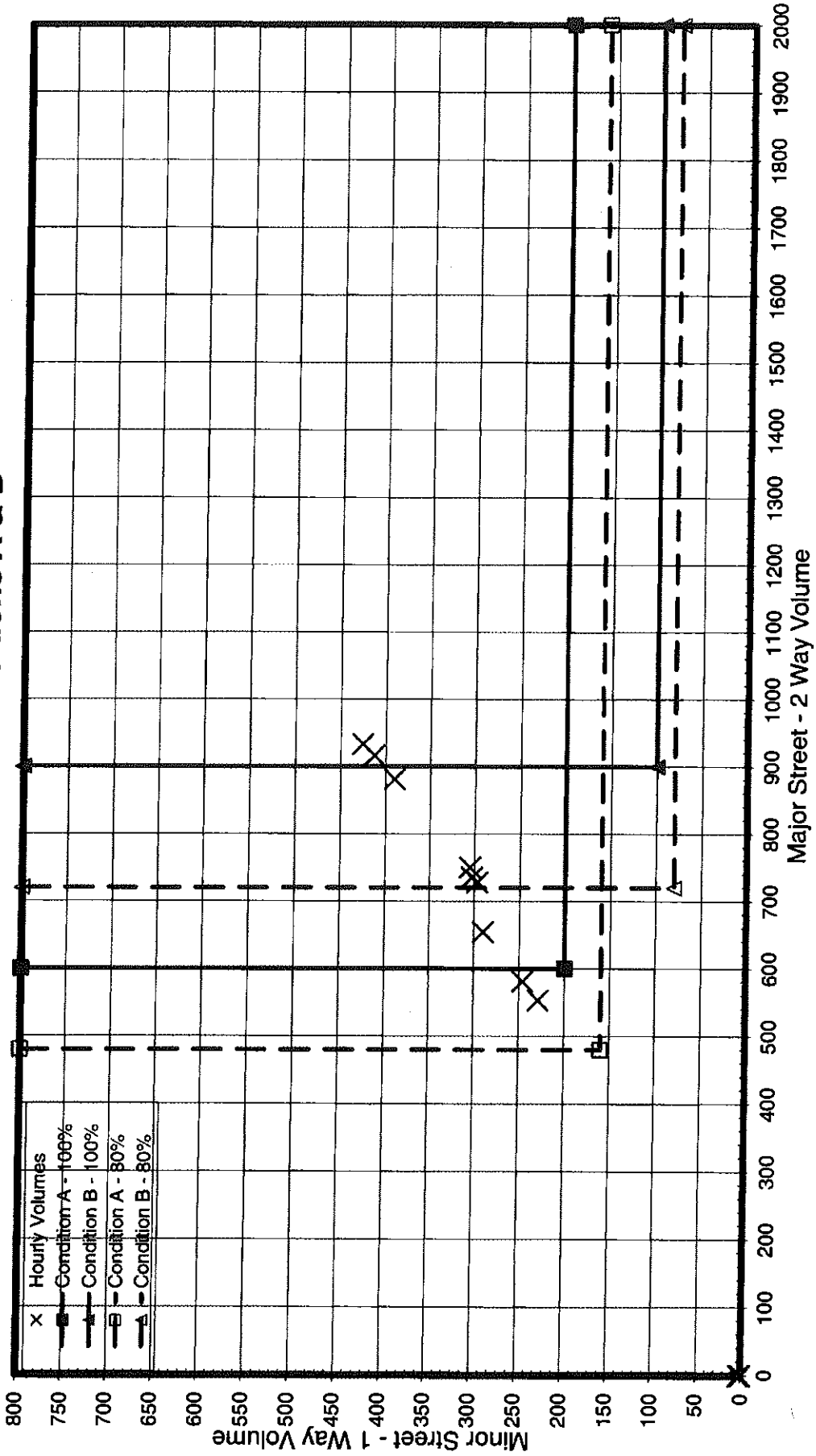
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____ TWO-WAY
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

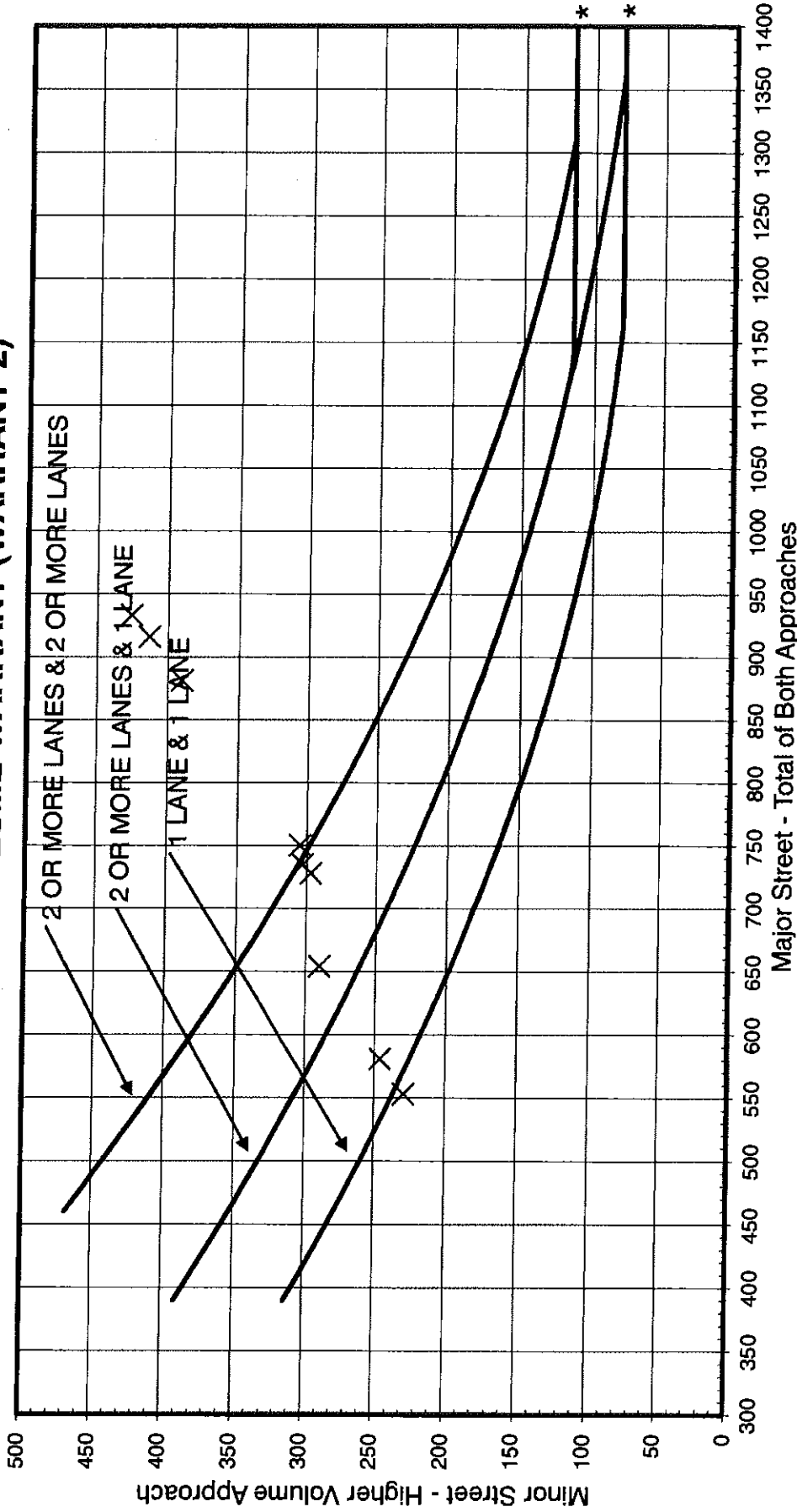
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	From	To	Weather
Wednesday	May 25, 2011	7:00 AM	10:00 AM	
Wednesday	May 25, 2011	11:00 AM	2:00 PM	
Wednesday	May 25, 2011	3:00 PM	6:00 PM	

Major Road = Euclid Ave		Minor Road = Superior Rd		Road Location = Urban		Lanes	
Condition A (100%) =	7 Hours Meet	Warrant Met?	No				
Condition B (100%) =	2 Hours Meet	Warrant Met?	No				
Condition A (80%) =	9 Hours Meet	Warrant Met?	Yes				
Condition B (80%) =	6 Hours Meet	Warrant Met?	No				

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Euclid Ave Lanes 2
 Minor Road = Superior Rd Lanes 2
 Road Location = Urban

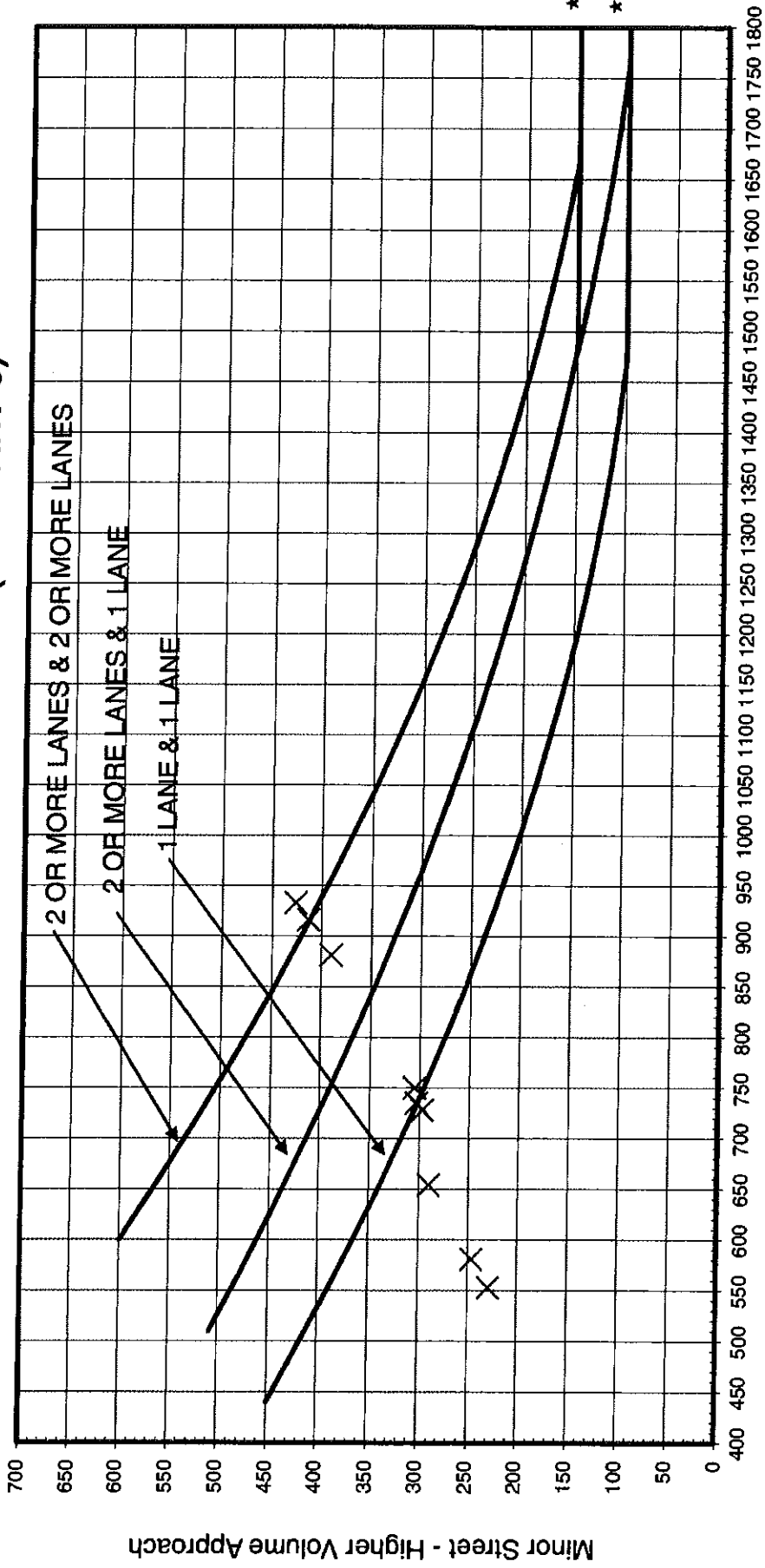
Warrant 2 (Urban) = 4 Hours Meet YES Warrant Met? YES



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	From	To	Weather
Wednesday	May 25, 2011	7:00 AM	10:00 AM	
Wednesday	May 25, 2011	11:00 AM	2:00 PM	
Wednesday	May 25, 2011	3:00 PM	6:00 PM	

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Superior Rd		2
Road Location =	Urban		

Warrant 3 (Urban) = 2 Hours Meet Warrant Met? YES

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	May 25, 2011	7:00 AM	10:00 AM	
Wednesday	May 25, 2011	11:00 AM	2:00 PM	
Wednesday	May 25, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data Euclid Ave and Taylor Rd



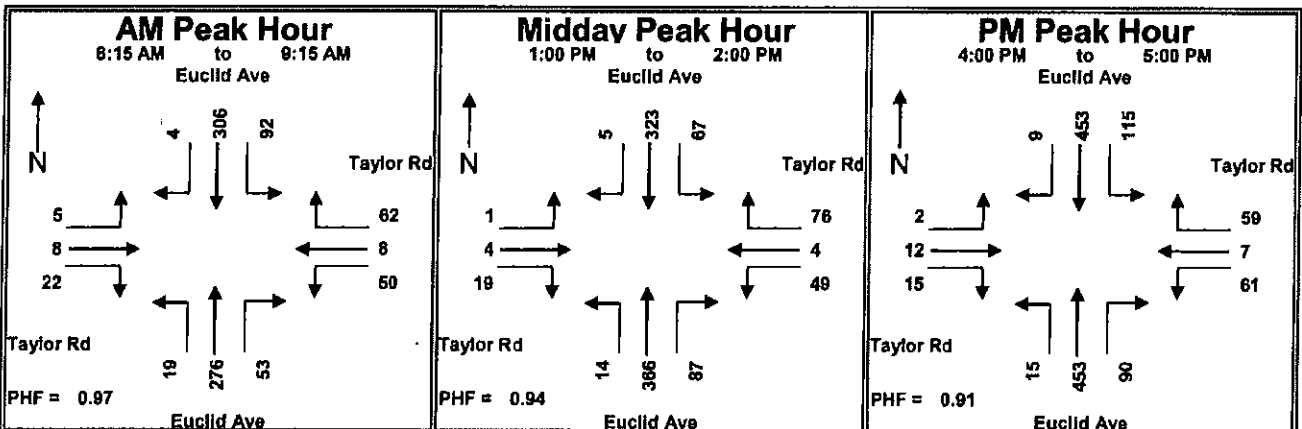
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.916	Wednesday	June 1, 2011	7:00 AM	10:00 AM	
0.916	Wednesday	June 1, 2011	11:00 AM	2:00 PM	
0.916	Wednesday	June 1, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	Taylor Rd Eastbound				Taylor Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	164	3077	628	27	759	3229	50	29	7907	19	66	143	0	463	66	493	3	1250	9157
ADT	255	4793	978	42	1182	5030	78	45	12318	30	103	223	0	721	103	768	5	1947	14265
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
7:00 AM	1	25	1	0	15	58	1	0	101	0	1	2	0	6	0	8	1	17	118
7:15 AM	1	32	6	0	15	83	1	1	138	0	0	4	0	9	1	10	0	24	162
7:30 AM	1	48	9	1	15	67	0	1	140	0	5	3	0	3	1	18	0	30	170
7:45 AM	4	49	12	1	21	98	0	1	184	0	1	4	0	12	3	16	0	36	220
8:00 AM	6	56	17	0	16	90	1	0	186	0	1	6	0	17	3	17	0	44	230
8:15 AM	10	51	19	1	24	81	1	0	186	2	1	7	0	14	2	22	0	48	234
8:30 AM	3	67	15	0	12	76	0	1	173	0	3	8	0	8	3	13	0	35	208
8:45 AM	3	75	7	1	28	81	1	0	195	0	4	4	0	13	3	12	0	36	231
9:00 AM	3	83	12	1	28	68	2	2	196	3	0	3	0	15	0	15	0	36	232
9:15 AM	0	81	14	1	22	86	0	1	183	0	3	3	0	8	1	15	0	30	213
9:30 AM	5	44	14	0	21	78	3	0	165	1	2	5	0	9	0	13	0	30	195
9:45 AM	11	75	13	1	27	79	0	0	205	0	1	1	0	12	2	11	1	27	232
11:00 AM	15	88	14	0	8	85	7	1	217	2	2	6	0	11	3	12	0	36	253
11:15 AM	5	86	13	2	13	93	2	0	212	0	3	7	0	9	2	13	0	34	246
11:30 AM	4	82	14	1	30	78	0	0	208	1	1	5	0	19	5	16	0	47	255
11:45 AM	4	86	16	1	12	98	1	2	217	0	3	6	0	13	3	7	0	32	249
12:00 PM	3	94	10	1	15	79	3	3	204	1	2	6	0	9	5	11	0	34	238
12:15 PM	5	81	20	0	17	84	0	4	207	0	0	1	0	14	3	13	0	31	238
12:30 PM	6	89	24	0	12	92	1	0	224	1	2	1	0	12	1	13	0	30	254
12:45 PM	10	94	16	1	13	86	2	1	221	0	2	2	0	11	0	18	0	33	254
1:00 PM	3	102	33	4	10	84	0	1	232	0	1	2	0	11	1	14	0	29	261
1:15 PM	7	82	13	0	19	76	3	1	200	0	0	4	0	9	0	15	0	28	228
1:30 PM	4	95	20	0	20	85	2	1	226	0	2	10	0	11	1	20	1	44	270
1:45 PM	0	87	21	0	18	78	0	0	204	1	1	3	0	18	2	27	0	52	256
3:00 PM	4	111	26	1	34	69	0	0	244	3	4	4	0	16	0	13	0	40	284
3:15 PM	4	116	30	1	22	112	2	0	286	1	2	2	0	21	3	21	0	50	336
3:30 PM	6	82	17	0	30	98	2	1	235	0	0	7	0	20	3	4	0	34	269
3:45 PM	5	107	27	0	41	112	0	1	292	0	2	2	0	18	2	4	0	28	320
4:00 PM	5	98	16	0	27	114	4	1	264	0	3	3	0	11	0	16	0	33	297
4:15 PM	2	100	26	0	35	121	2	2	286	2	2	5	0	11	3	17	0	40	326
4:30 PM	2	119	22	1	23	106	1	0	273	0	2	2	0	21	2	12	0	39	312
4:45 PM	6	136	26	1	30	112	2	1	312	0	5	5	0	18	2	14	0	44	356
5:00 PM	4	117	20	1	17	106	1	0	265	0	0	6	0	7	2	9	0	24	289
5:15 PM	4	120	28	3	29	108	3	1	292	0	0	2	0	17	0	11	0	30	322
5:30 PM	5	123	21	1	17	99	2	1	267	1	5	0	0	21	3	11	0	41	308
5:45 PM	3	116	16	1	23	109	0	0	267	0	0	2	0	9	1	12	0	24	291



Notes:

Euclid/Taylor
Bus Counts
June 1, 2011

File Name : 2305-6-1-20
Site Code : 00000000
Start Date : 06/01/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	4	0	0	0	0	0	0	1	3	0	0	0	0	0	0	
07:15 AM	0	1	0	0	0	0	1	0	0	3	0	0	0	0	0	0	
07:30 AM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
07:45 AM	0	2	0	0	0	0	0	0	1	2	0	0	0	0	0	0	
Total	0	9	0	0	0	0	1	0	2	11	0	0	0	0	0	0	2
08:00 AM	0	5	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
08:15 AM	0	1	0	0	0	0	1	0	1	2	0	0	0	0	0	0	
08:30 AM	0	3	1	0	0	0	0	0	1	1	0	0	0	0	0	0	
08:45 AM	0	4	0	0	0	0	1	0	0	2	0	0	0	0	0	0	
Total	0	13	1	0	0	0	2	0	2	7	0	0	0	0	0	0	2
09:00 AM	0	2	0	0	0	0	0	0	1	3	0	0	0	0	0	0	
09:15 AM	0	1	0	0	0	0	1	0	0	2	0	0	0	0	0	0	
09:30 AM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
09:45 AM	0	4	0	0	0	0	0	0	0	2	1	0	0	0	0	0	
Total	0	10	0	0	0	0	1	0	1	9	1	0	0	0	0	0	2
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	
11:30 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Total	0	4	0	0	0	0	1	0	1	6	0	0	0	0	0	0	1
12:00 PM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	1	0	0	0	0	1	0	1	2	0	0	0	0	0	0	
12:30 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
12:45 PM	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Total	0	10	0	0	0	0	1	0	1	6	0	0	0	0	0	0	1
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
01:30 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:45 PM	0	2	0	0	1	0	0	0	0	2	0	0	0	0	0	0	
Total	0	4	0	0	1	0	1	0	0	5	0	0	0	0	0	0	1
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
03:15 PM	0	2	0	0	0	0	0	0	1	2	0	0	0	0	0	0	
03:30 PM	0	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
03:45 PM	0	4	0	0	1	0	0	0	1	3	0	0	0	0	0	0	
Total	0	9	0	0	2	0	1	0	2	7	0	0	0	0	0	0	2
04:00 PM	0	2	0	0	0	0	1	0	1	2	0	0	0	0	0	0	
04:15 PM	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
04:30 PM	0	1	0	0	0	0	1	0	0	2	0	0	0	0	0	0	
04:45 PM	0	4	0	0	0	0	0	0	1	1	0	0	0	0	0	0	
Total	0	8	0	0	0	0	2	0	2	9	0	0	0	0	0	0	2

15-Minute Count Data Euclid Ped and Taylor Ped



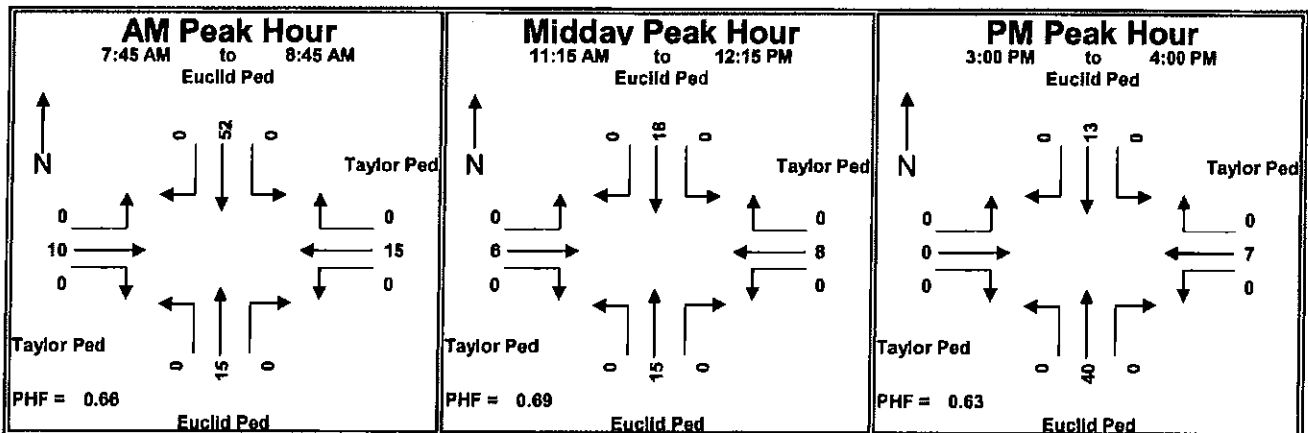
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.916	Wednesday	June 1, 2011	7:00 AM	10:00 AM	
0.916	Wednesday	June 1, 2011	11:00 AM	2:00 PM	
0.916	Wednesday	June 1, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	Taylor Ped Eastbound				Taylor Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	137	0	0	0	174	0	0	311	0	40	0	0	0	78	0	0	118	429
ADT	0	213	0	0	0	271	0	0	484	0	62	0	0	0	122	0	0	184	668
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					



Notes:

SIGNAL WARRANT



INTERSECTION: Euclid Ave and Taylor Rd
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 2 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes _____ DOES 70% WARRANT APPLY? NO _____
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____

OTHER (DESCRIBE):
 ADDITIONAL ITEMS ATTACHED
 SKETCH OR DRAWING
 VEHICULAR VOLUME COUNT
 TRAFFIC PROJECTION
 ACCIDENT DATA
 PEDESTRIAN COUNT
 GAP ANALYSIS

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level..... NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians.....
 Hours with 190 or more pedestrians.....
 Pedestrian crossing time (t).....
 Number of gaps greater than (t) during period.....
 Warrant Satisfied?.....

COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3	
		MAJOR 2-WAY	MINOR 1-WAY	100%		80%		100%		80%		PEAK HOUR	
NORM	1	500	150	400	120	750	75	600	60				
70%	2+	600	200	480	160	900	100	720	80				
	2+	350	105	280	84	525	53	420	42				
	MID-1AM	420	140	336	112	630	70	504	56				

WARRANT #5 (SCHOOL CROSSING)
 On approved school route?..... YES
 Gap analysis made during period from 7:15 AM to 8:15 AM
 Number of vehicles during analysis period..... 653
 Pedestrian crossing time (t)..... 24 sec
 Number of gaps greater than (t) during period..... 0
 Approximate vehicular speed..... 20-25 mph
 Number of children crossing during period..... 30
 Warrant Satisfied?..... YES

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is..... TWO-WAY
 Distance to nearest signal in each direction on major street.....
 Time space diagram (attached) shows that this location can be implemented into a system.....
 Warrant Satisfied?..... NO

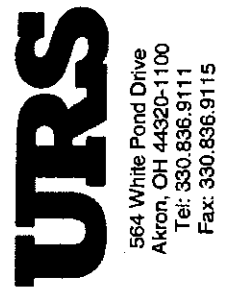
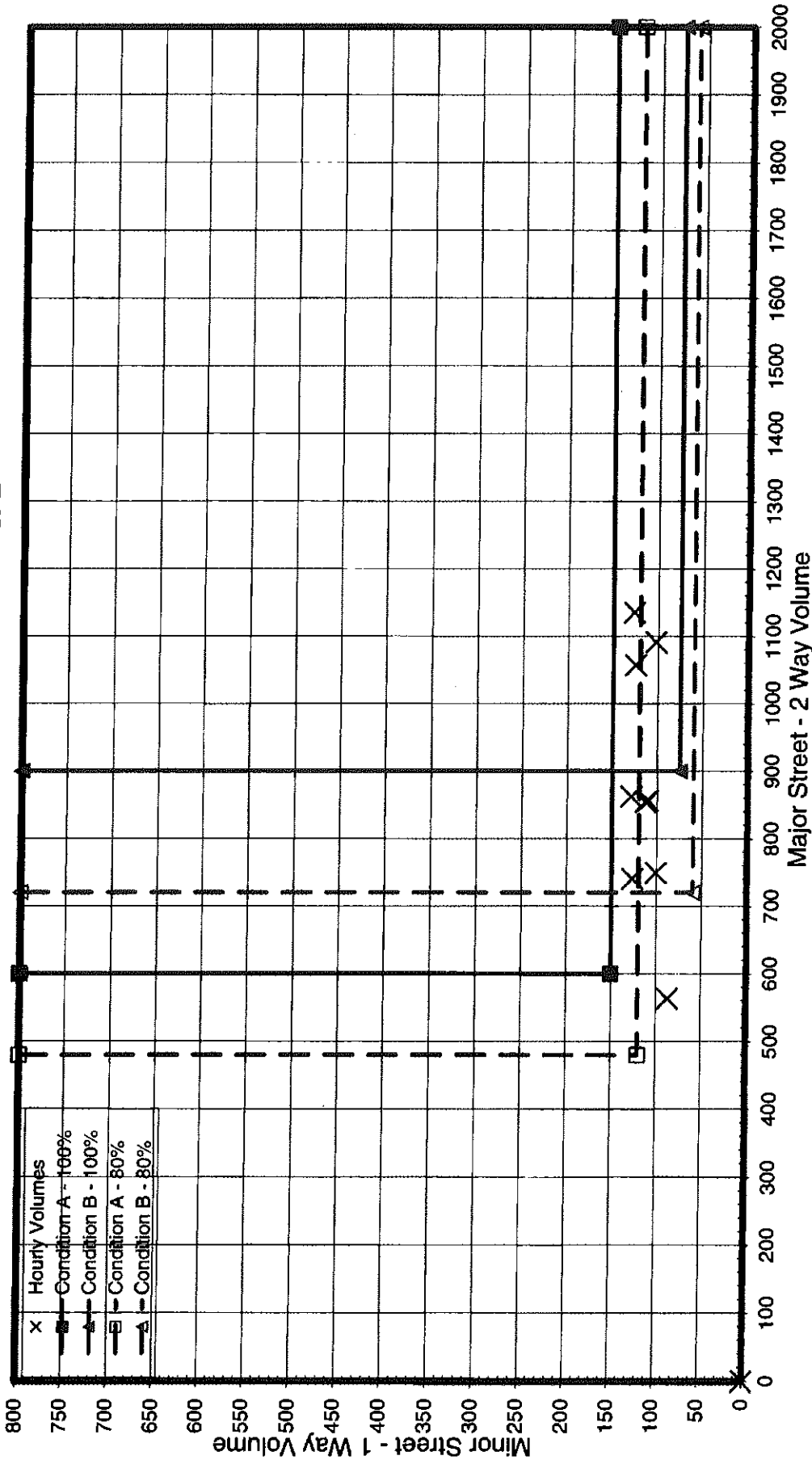
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures.....
 Number of accidents per year of a type which could be prevented by signalization.....
 80% of warrant #1 or #2 satisfied..... X
 Will signalization disrupt progressive movement?.....
 Warrant Satisfied?..... NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes.....
 At least 1000 V.P.H. during weekday peak hour.....
 5-Year projection meets Warrant 1, 2, or 3.....
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday.....
 Meets characteristic requirements?.....
 Warrant Satisfied?..... NO

HOURS MET	WARRANT SATISFIED?				YES	NO
	0	4	3	8		
11PM-MID	0	0	0	0	0	0
10PM-11PM	0	0	0	0	0	0
9PM-10PM	0	0	0	0	0	0
8PM-9PM	0	0	0	0	0	0
7PM-8PM	0	0	0	0	0	0
6PM-7PM	0	0	0	0	0	0
5PM-6PM	0	0	0	0	0	0
4PM-5PM	0	0	0	0	0	0
3PM-4PM	0	0	0	0	0	0
2PM-3PM	0	0	0	0	0	0
1PM-2PM	0	0	0	0	0	0
NOON-1PM	0	0	0	0	0	0
11AM-NOON	0	0	0	0	0	0
10AM-11AM	0	0	0	0	0	0
9AM-10AM	0	0	0	0	0	0
8AM-9AM	0	0	0	0	0	0
7AM-8AM	0	0	0	0	0	0
6AM-7AM	0	0	0	0	0	0
5AM-6AM	0	0	0	0	0	0
4AM-5AM	0	0	0	0	0	0
3AM-4AM	0	0	0	0	0	0
2AM-3AM	0	0	0	0	0	0
1AM-2AM	0	0	0	0	0	0

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

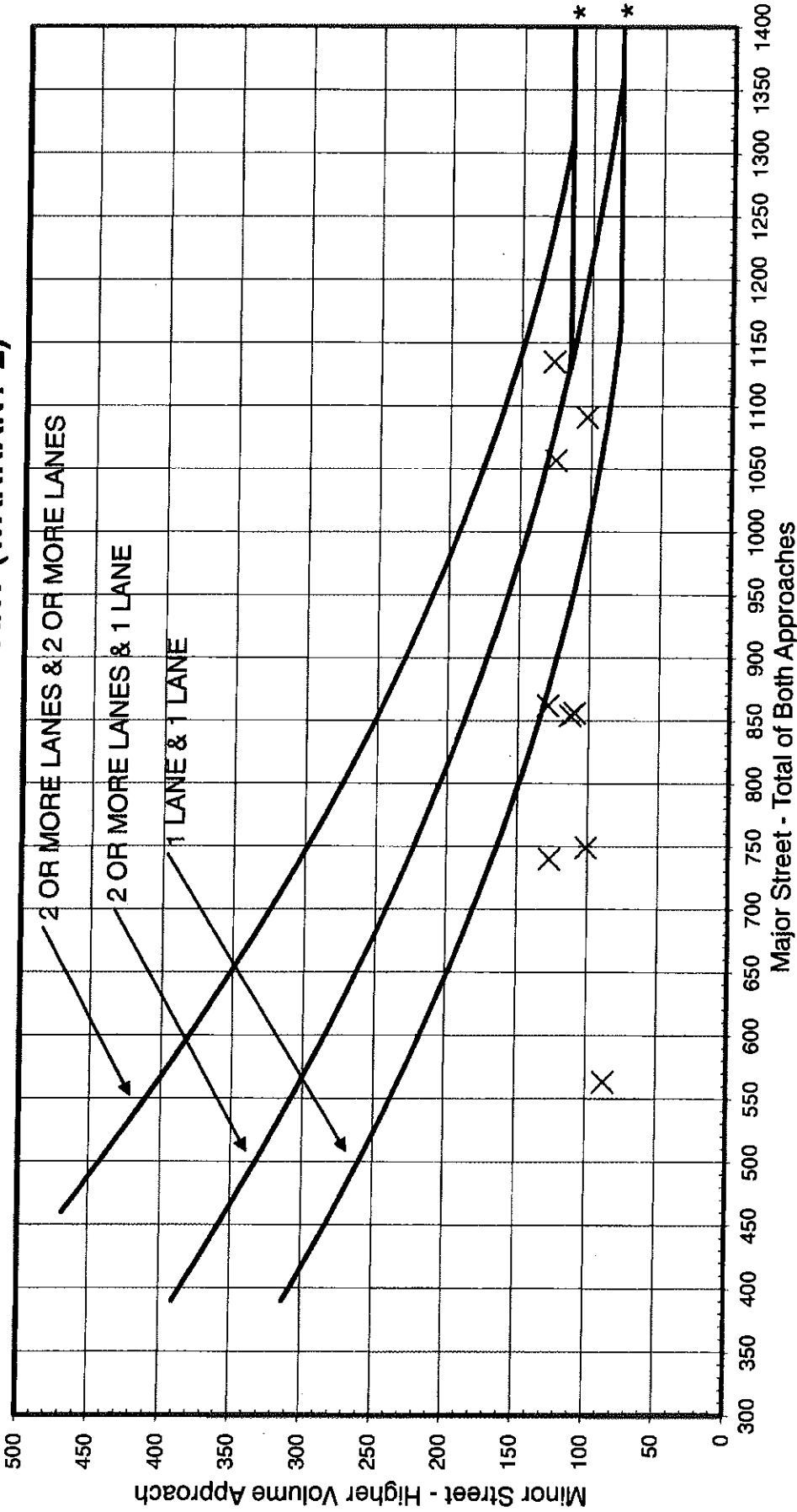
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	From	To	Weather
Wednesday	June 1, 2011	7:00 AM	10:00 AM	
Wednesday	June 1, 2011	11:00 AM	2:00 PM	
Wednesday	June 1, 2011	3:00 PM	6:00 PM	

Major Road =	Euclid Ave	Lanes	2
Minor Road =	Taylor Rd	Lanes	1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Meet	No	
Condition B (100%) =	3 Hours Meet	No	
Condition A (80%) =	4 Hours Meet	No	
Condition B (80%) =	8 Hours Meet	Yes	

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

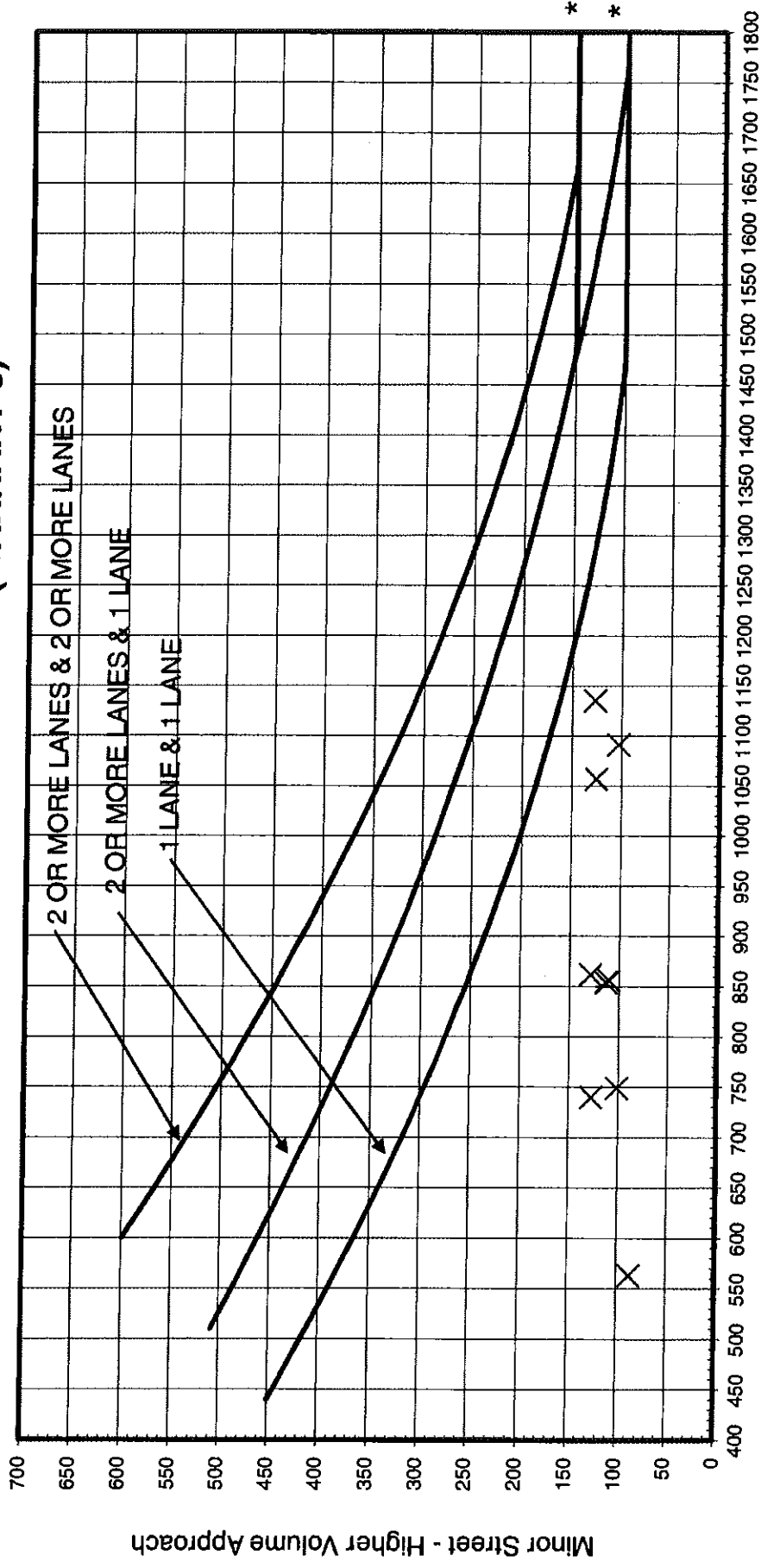
Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 2 (Urban) = Warrant Met?

Day of Week	Date & Year	From	To	Weather
Wednesday	June 1, 2011	7:00 AM	10:00 AM	
Wednesday	June 1, 2011	11:00 AM	2:00 PM	
Wednesday	June 1, 2011	3:00 PM	6:00 PM	

URS
 584 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

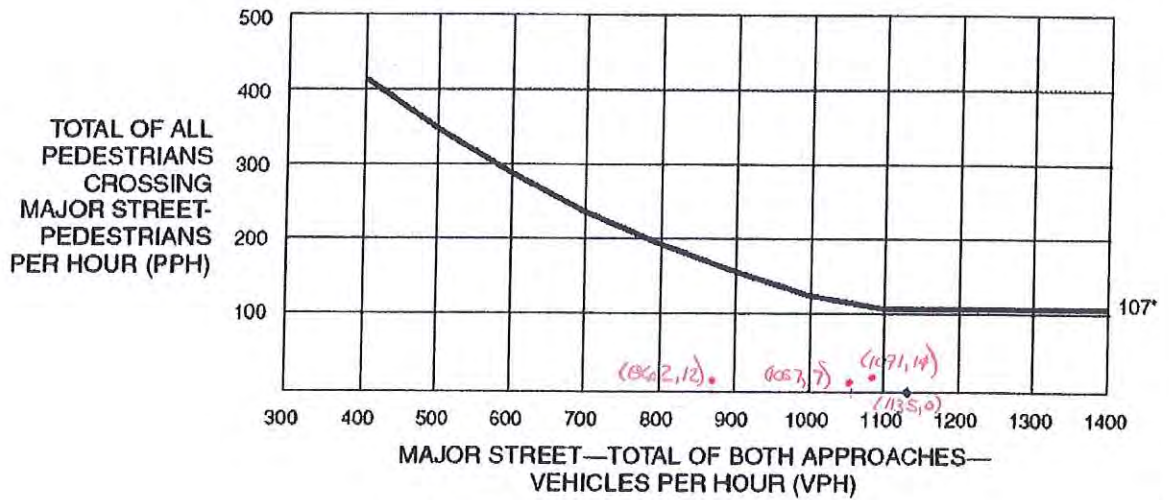
Major Road = Euclid Ave Lanes 2
 Minor Road = Taylor Rd Lanes 1
 Road Location = Urban

Warrant 3 (Urban) = 0 Hours Meet NO Warrant Met?

Day of Week	Date & Year	From	To	Weather
Wednesday	June 1, 2011	7:00 AM	10:00 AM	
Wednesday	June 1, 2011	11:00 AM	2:00 PM	
Wednesday	June 1, 2011	3:00 PM	6:00 PM	

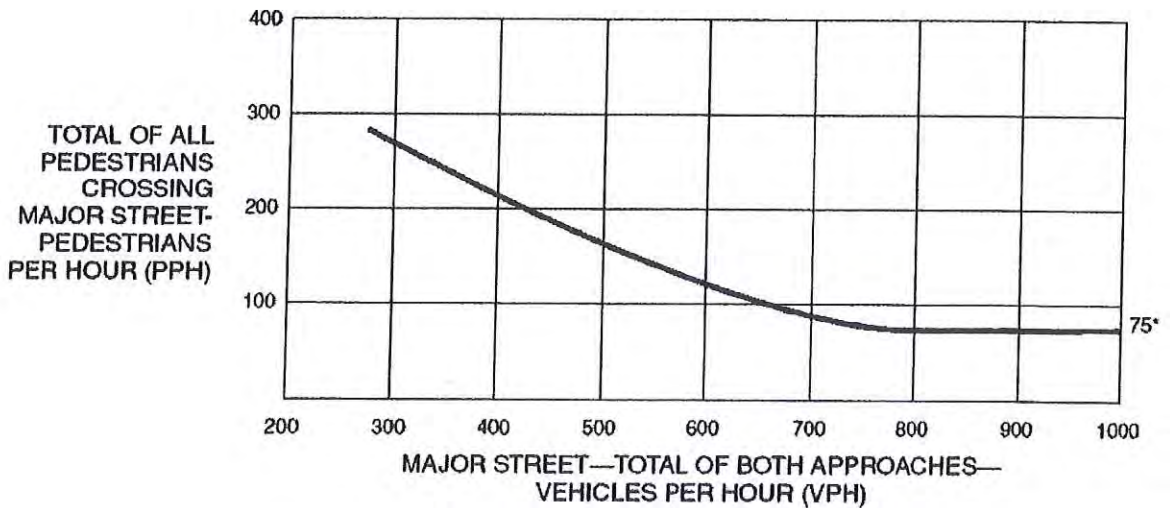


Figure 4C-5. Warrant 4, Pedestrian Four-Hour Volume



*Note: 107 pph applies as the lower threshold volume.

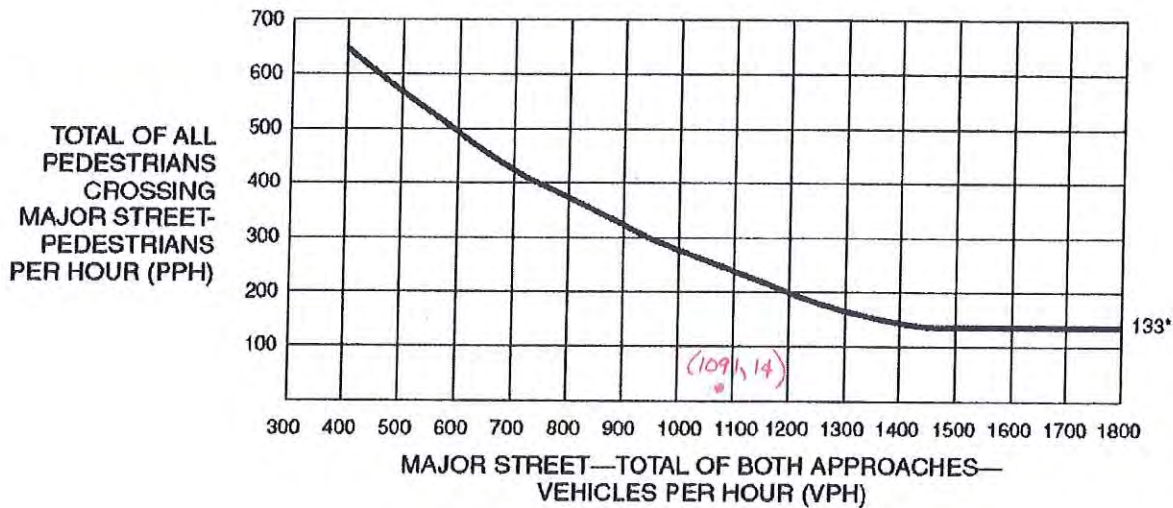
Figure 4C-6. Warrant 4, Pedestrian Four-Hour Volume (70% Factor)



*Note: 75 pph applies as the lower threshold volume.

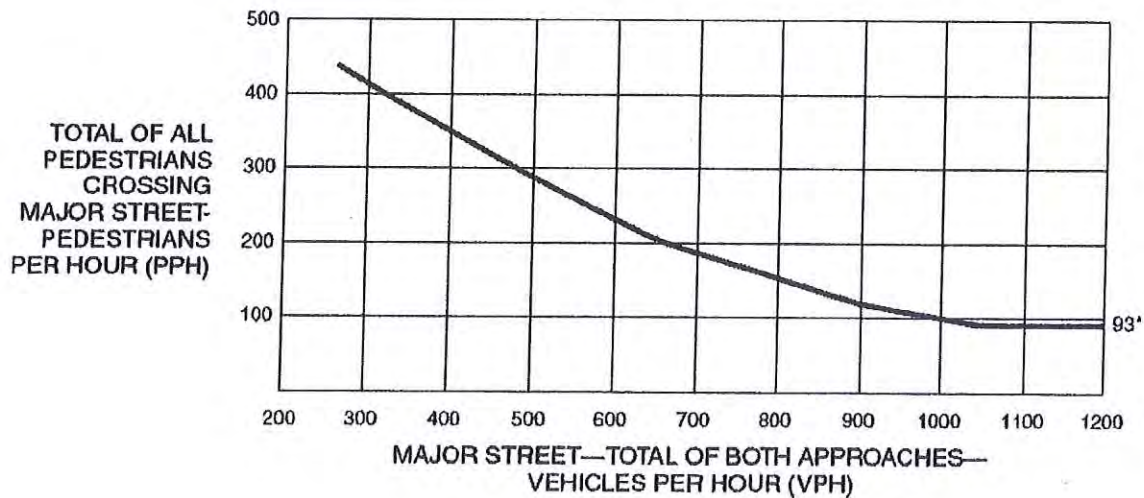
Euclid/Taylor

Figure 4C-7. Warrant 4, Pedestrian Peak Hour



*Note: 133 pph applies as the lower threshold volume.

Figure 4C-8. Warrant 4, Pedestrian Peak Hour (70% Factor)



*Note: 93 pph applies as the lower threshold volume.

15-Minute Count Data

Euclid Ave and RTA Dr and Beersford Rd



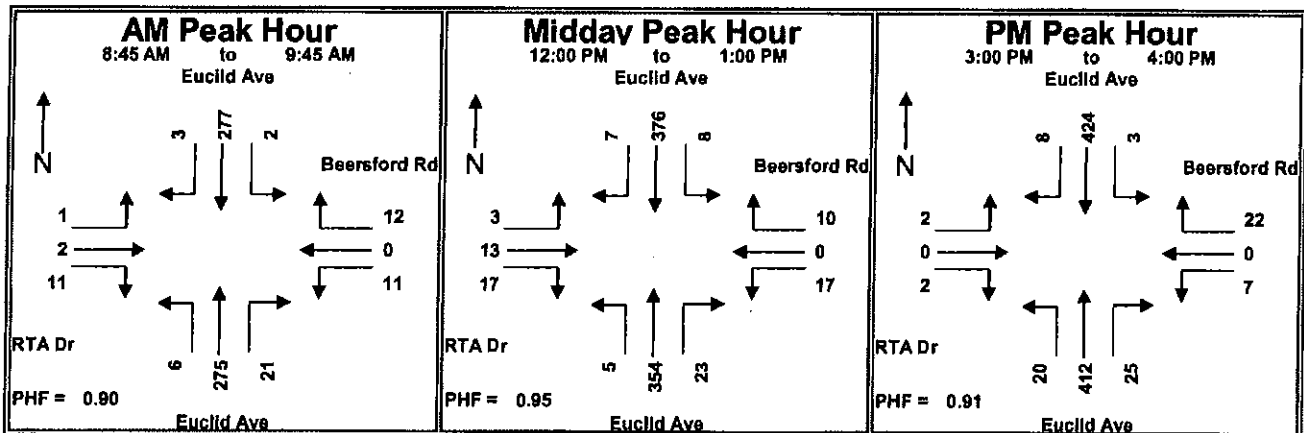
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 24, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 24, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 24, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ave Northbound				Euclid Ave Southbound				Total North South	RTA Dr Eastbound				Beersford Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	55	2993	144	99	55	3048	56	71	6351	29	43	71	5	93	1	127	2	364	6715
	Percent Trucks = 3%				Percent Trucks = 2%					Percent Trucks = 3%				Percent Trucks = 1%					
ADT	86	4683	225	155	86	4769	86	111	9937	45	67	111	8	146	2	199	3	570	10506



Notes:

Euclid/Beersford/RTA
 Bus Counts
 June 1, 2011

File Name : 2056-5-24-20
 Site Code : 05242011
 Start Date : 05/24/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:45 PM	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	59	22	0	0	2	0	0	0	0	0	1	0	0	0	1	0		8
Approch %	72.8	27.2	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0		
Total %	69.4	25.9	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.2	0.0		

15-Minute Count Data

Euclid Ped and RTA Ped and Beersford Ped



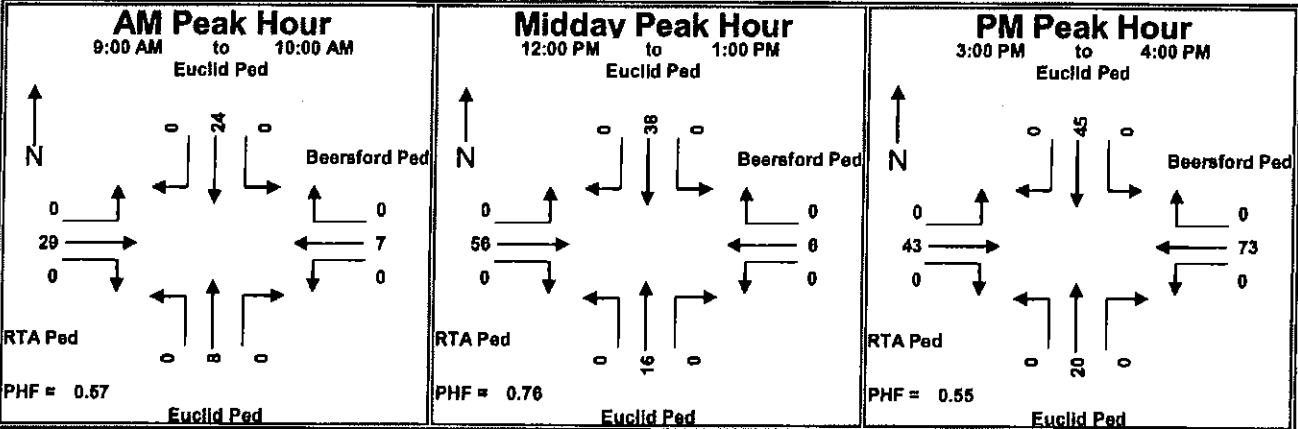
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 24, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 24, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 24, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Euclid Ped Northbound				Euclid Ped Southbound				Total North South	RTA Ped Eastbound				Beersford Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	130	0	0	0	263	0	0	393	0	320	0	0	0	139	0	0	459	852
ADT	0	203	0	0	0	411	0	0	615	0	501	0	0	0	217	0	0	718	1333
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					



Notes:

SIGNAL WARRANT

INTERSECTION: Euclid Ave and RTA Dr and Beersford Rd
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N:2 S:2 E:1 W:1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY:

CC: _____ RTE: _____
 CONSULTANT: URS CORPORATION SECT: _____
 CALC. BY: _____ CKD BY: _____



OTHER (DESCRIBE):
 ADDITIONAL ITEMS ATTACHED
 SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES				WARRANT #1						WARRANT #2		WARRANT #3			
		MAJOR ST		MINOR ST		CONDITION A			CONDITION B			FOUR HOUR	PEAK HOUR	#	#		
		2-WAY	1-WAY	1-WAY	1-WAY	100%	80%	MINOR	MAJOR	MINOR	MAJOR					MINOR	MAJOR
NORM	1	X				500	150	400	120	750	75	600	80				
	2+	X				350	105	280	84	525	53	420	42				
70%	1					420	140	335	112	630	70	504	56				
MID-1AM	0	0	0	0													
1AM-2AM	0	0	0	0													
2AM-3AM	0	0	0	0													
3AM-4AM	0	0	0	0													
4AM-5AM	0	0	0	0													
5AM-6AM	0	0	0	0													
6AM-7AM	0	0	0	0													
7AM-8AM	500	8	19					X									
8AM-9AM	499	11	26					X									
9AM-10AM	561	12	15					X									
10AM-11AM	0	0	0					X									
11AM-NOON	696	11	25					X									
NOON-1PM	773	33	27					X									
1PM-2PM	732	28	29					X									
2PM-3PM	0	0	0					X									
3PM-4PM	892	4	29					X									
4PM-5PM	844	16	23					X									
5PM-6PM	854	20	28					X									
6PM-7PM	0	0	0					X									
7PM-8PM	0	0	0					X									
8PM-9PM	0	0	0					X									
9PM-10PM	0	0	0					X									
10PM-11PM	0	0	0					X									
11PM-MID	0	0	0					X									
HOURS MET		0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
WARRANT SATISFIED?		NO	NO	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

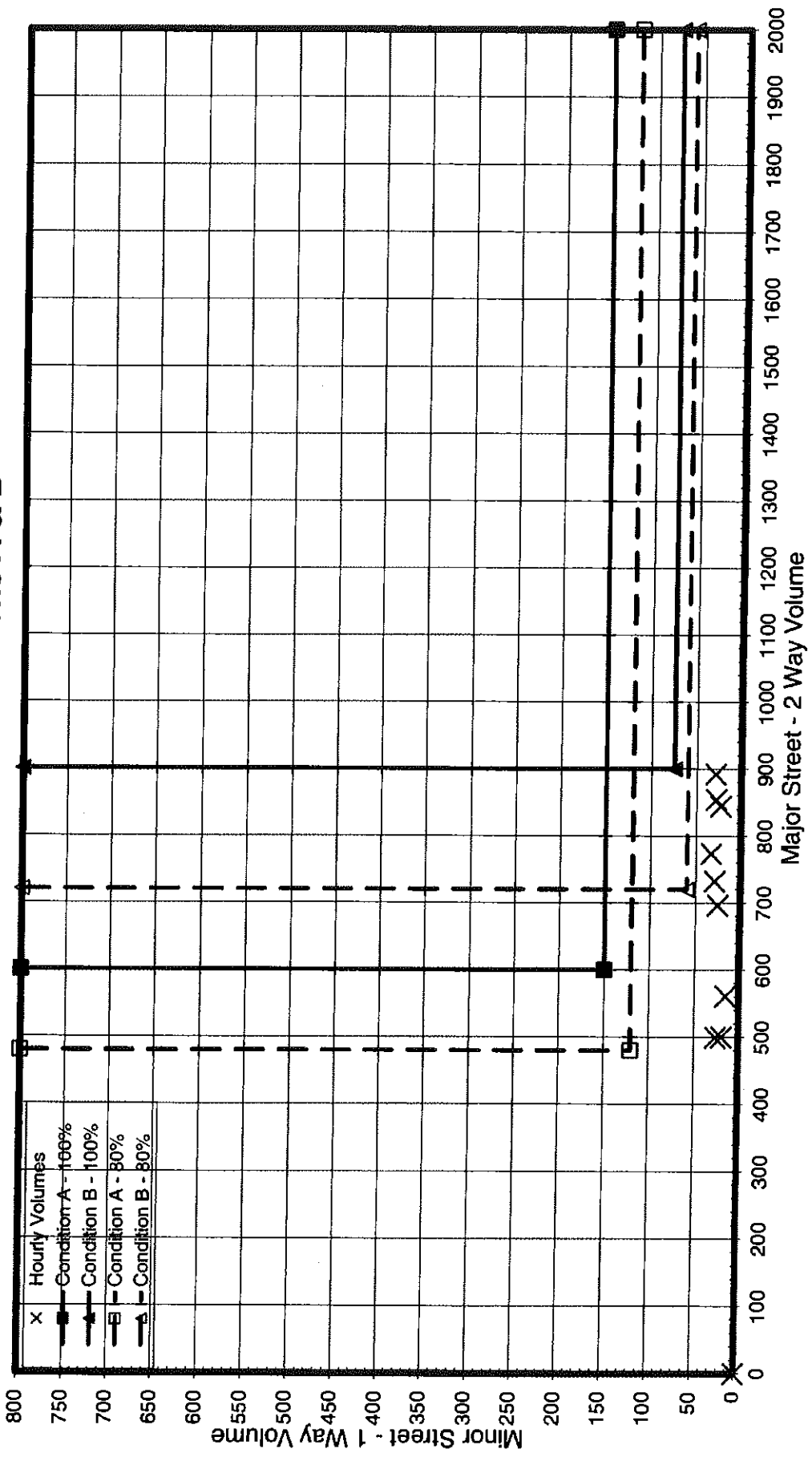
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 3 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

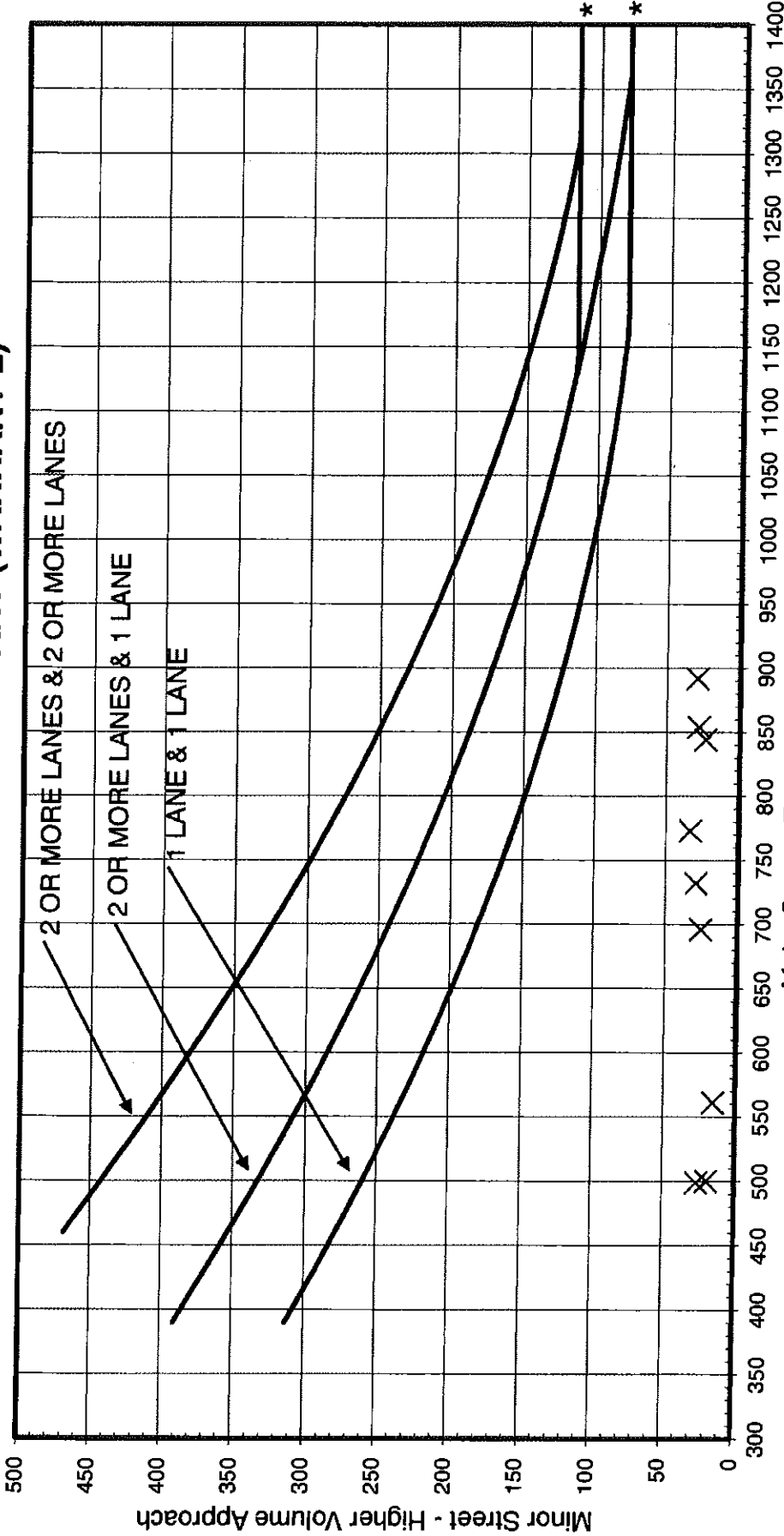


Major Road =	Euclid Ave	Lanes	2
Minor Road =	RTA Dr and Beerford Rd	RG	1
Road Location =	Urban	Warrant Met?	
Condition A (100%) =	0 Hours Meet	No	No
Condition B (100%) =	0 Hours Meet	No	No
Condition A (80%) =	0 Hours Meet	No	No
Condition B (80%) =	0 Hours Meet	No	No

Day of Week	Date & Year	From	To	Weather
Tuesday	May 24, 2011	7:00 AM	10:00 AM	
Tuesday	May 24, 2011	11:00 AM	2:00 PM	
Tuesday	May 24, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

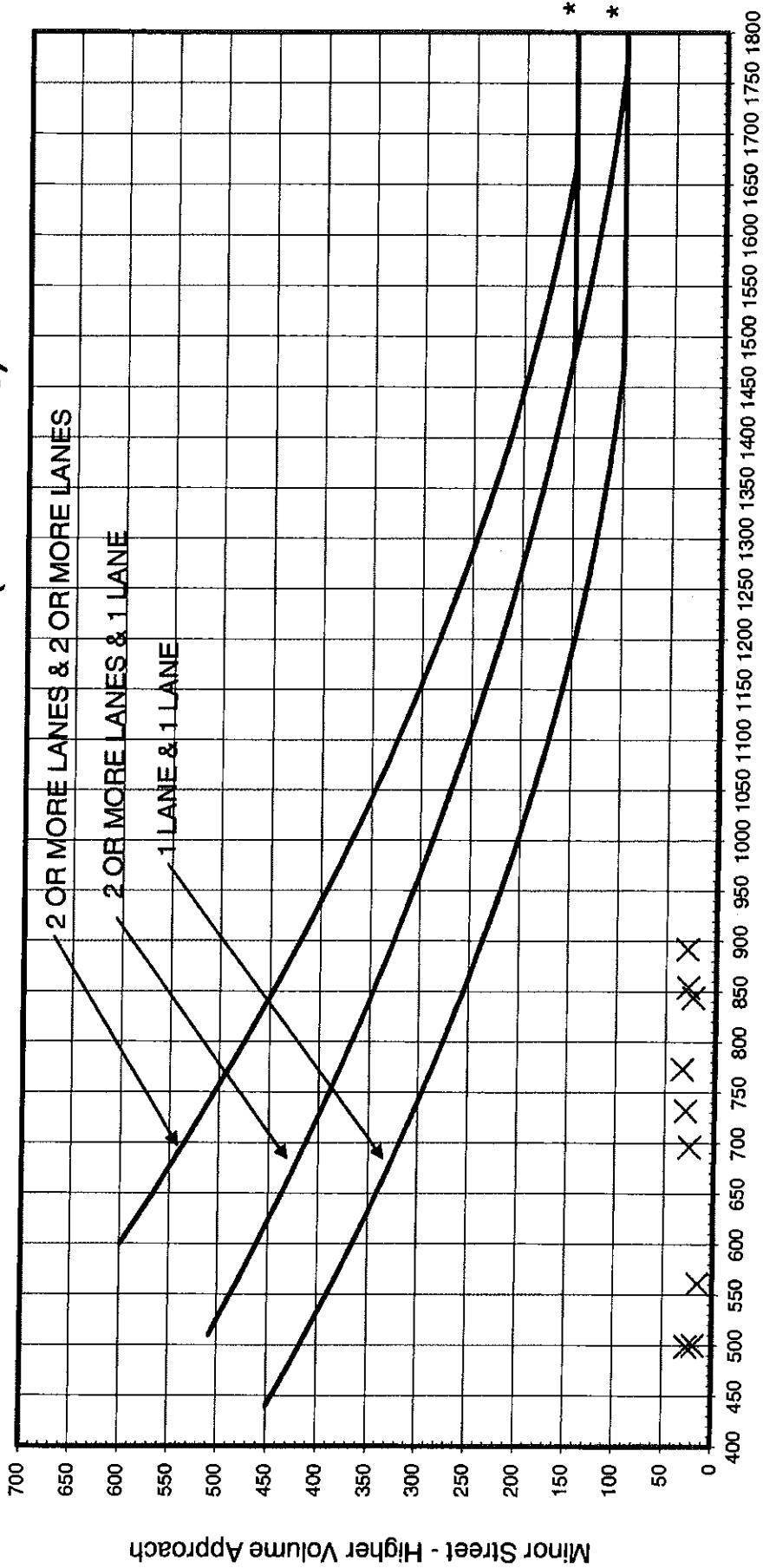


Day of Week	Date & Year	From	To	Weather
Tuesday	May 24, 2011	7:00 AM	10:00 AM	
Tuesday	May 24, 2011	11:00 AM	2:00 PM	
Tuesday	May 24, 2011	3:00 PM	6:00 PM	

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 2 (Urban) = Hours Meet Warrant Met?

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

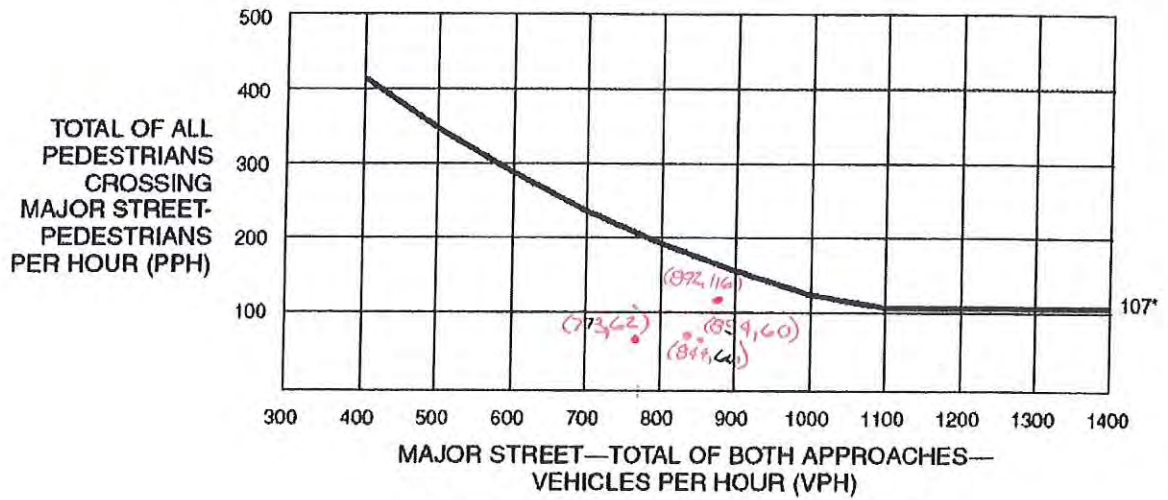
Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Tuesday	May 24, 2011	7:00 AM	10:00 AM	
Tuesday	May 24, 2011	11:00 AM	2:00 PM	
Tuesday	May 24, 2011	3:00 PM	6:00 PM	



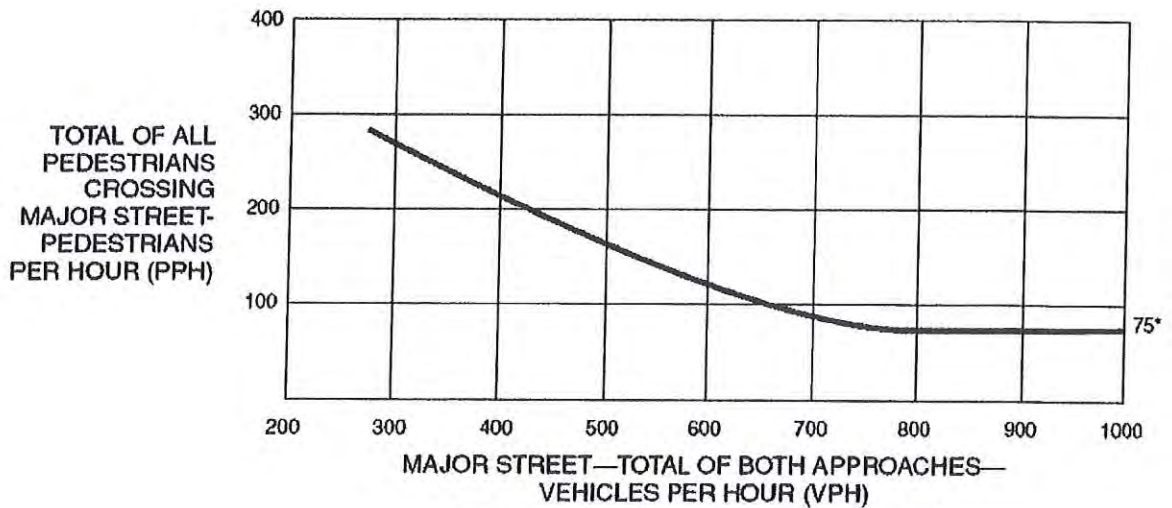
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Figure 4C-5. Warrant 4, Pedestrian Four-Hour Volume



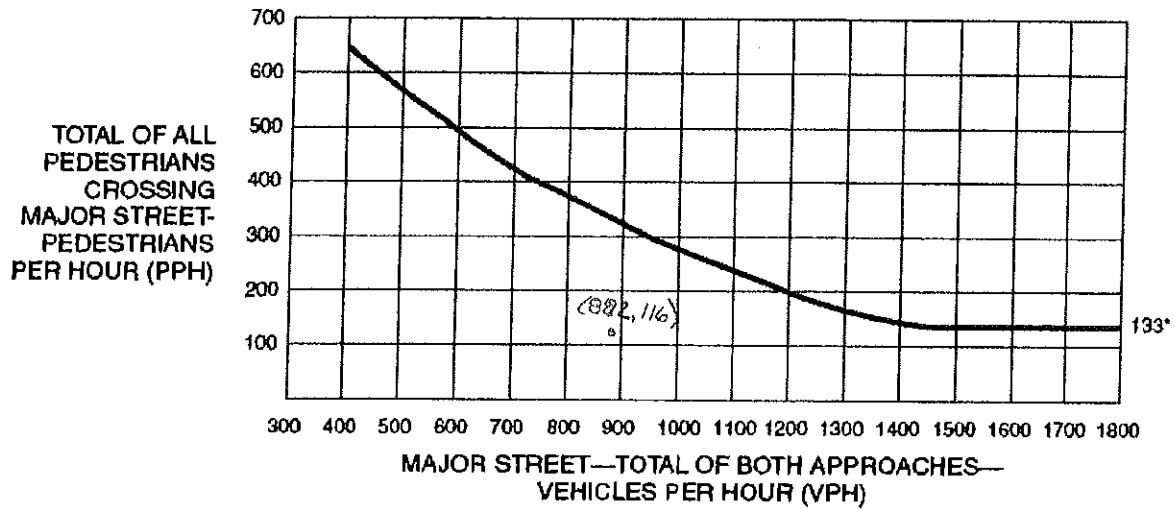
*Note: 107 pph applies as the lower threshold volume.

Figure 4C-6. Warrant 4, Pedestrian Four-Hour Volume (70% Factor)



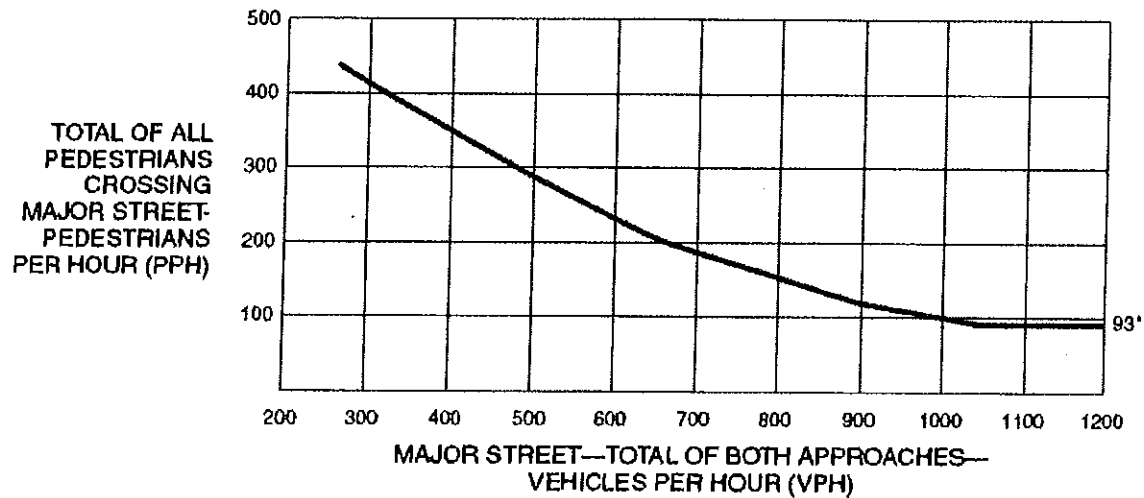
*Note: 75 pph applies as the lower threshold volume.

Figure 4C-7. Warrant 4, Pedestrian Peak Hour



*Note: 133 pph applies as the lower threshold volume.

Figure 4C-8. Warrant 4, Pedestrian Peak Hour (70% Factor)



*Note: 93 pph applies as the lower threshold volume.

15-Minute Count Data Hayden Ave and Alder Ave



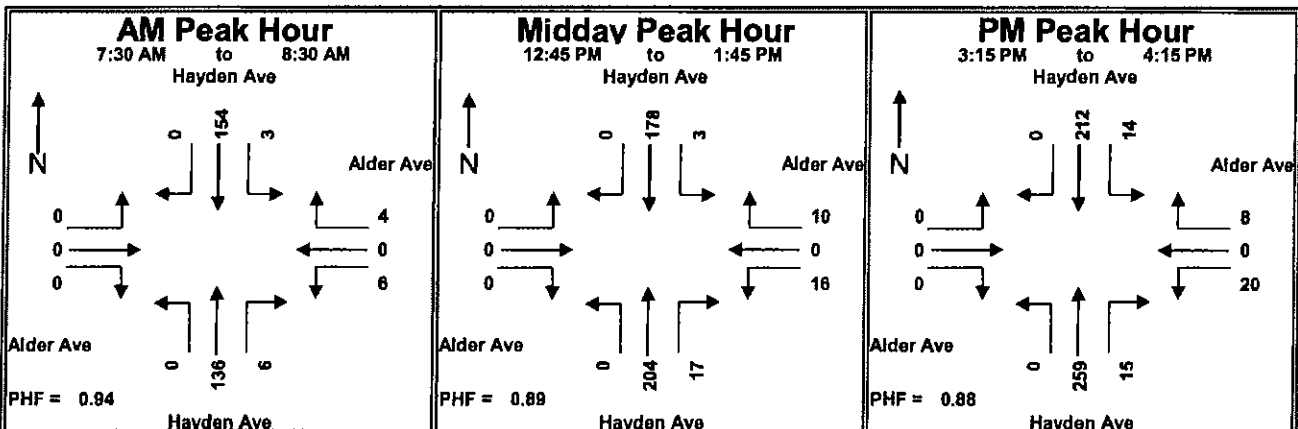
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.884	Thursday	May 19, 2011	7:00 AM	10:00 AM	
0.884	Thursday	May 19, 2011	11:00 AM	2:00 PM	
0.884	Thursday	May 19, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Alder Ave Eastbound				Alder Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	1561	100	13	54	1558	1	22	3274	0	0	0	0	97	0	45	0	142	3416
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	2355	161	20	81	2350	2	33	4939	0	0	0	0	146	0	68	0	214	5153



Notes:

Hyaden/Alder
Bus Counts
May 19, 2011

File Name : 2304-05-19-20
Site Code : 00051911
Start Date : 05/19/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot.
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
07:15 AM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
07:30 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
07:45 AM	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	8	0	0	0	0	0	0	0	7	0	0	0	0	0	0	
08:00 AM	0	9	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:15 AM	0	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:30 AM	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:45 AM	0	6	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
Total	0	28	0	0	0	0	1	0	0	3	0	0	0	0	0	0	
09:00 AM	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	3	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
09:30 AM	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
09:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	13	0	0	0	0	1	0	0	2	0	0	0	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:00 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
01:15 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:45 PM	0	1	0	0	0	0	0	0	0	10	0	0	0	0	0	0	
Total	0	2	0	0	0	0	0	0	0	15	0	0	0	0	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
03:15 PM	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
03:30 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
03:45 PM	0	3	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
Total	0	7	0	0	0	0	1	0	0	6	0	0	0	0	0	0	
04:00 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
04:15 PM	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
04:30 PM	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
04:45 PM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
Total	0	5	0	0	0	0	0	0	0	13	0	0	0	0	0	0	

15-Minute Count Data Hayden Ped and Alder Ped



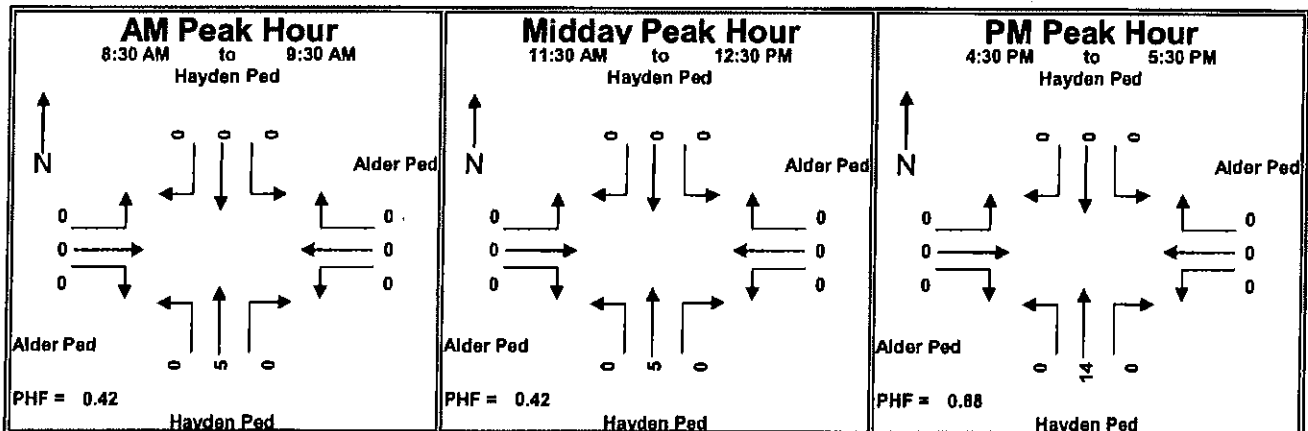
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.884	Thursday	May 19, 2011	7:00 AM	10:00 AM	
0.884	Thursday	May 19, 2011	11:00 AM	2:00 PM	
0.884	Thursday	May 19, 2011	3:00 PM	6:00 PM	

Roadway Classification:

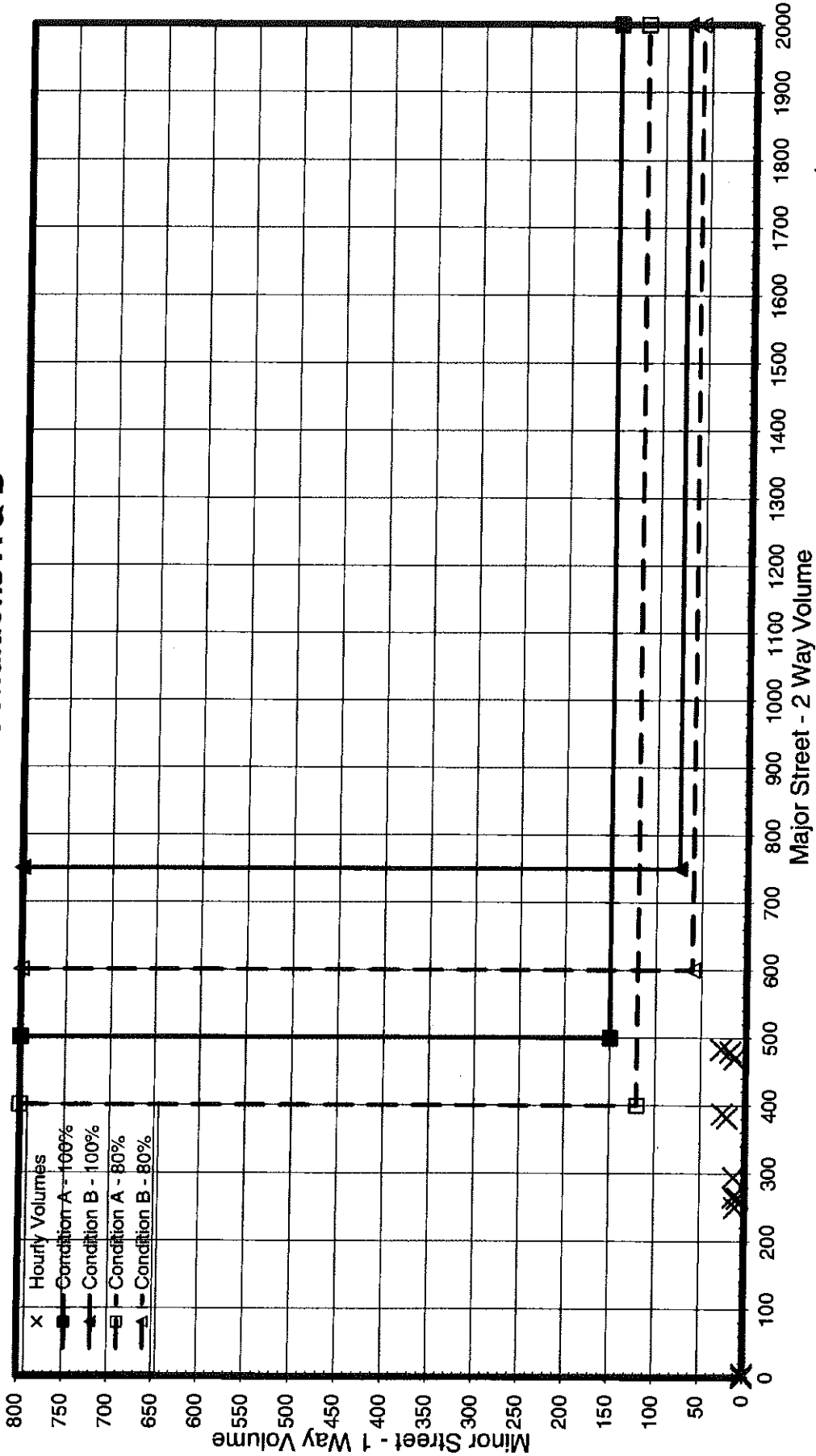
ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ped Northbound				Hayden Ped Southbound				Total North South	Alder Ped Eastbound				Alder Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	38	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	38
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	57	0	0	0	0	0	0	57	0	0	0	0	0	0	0	0	0	57



Notes:

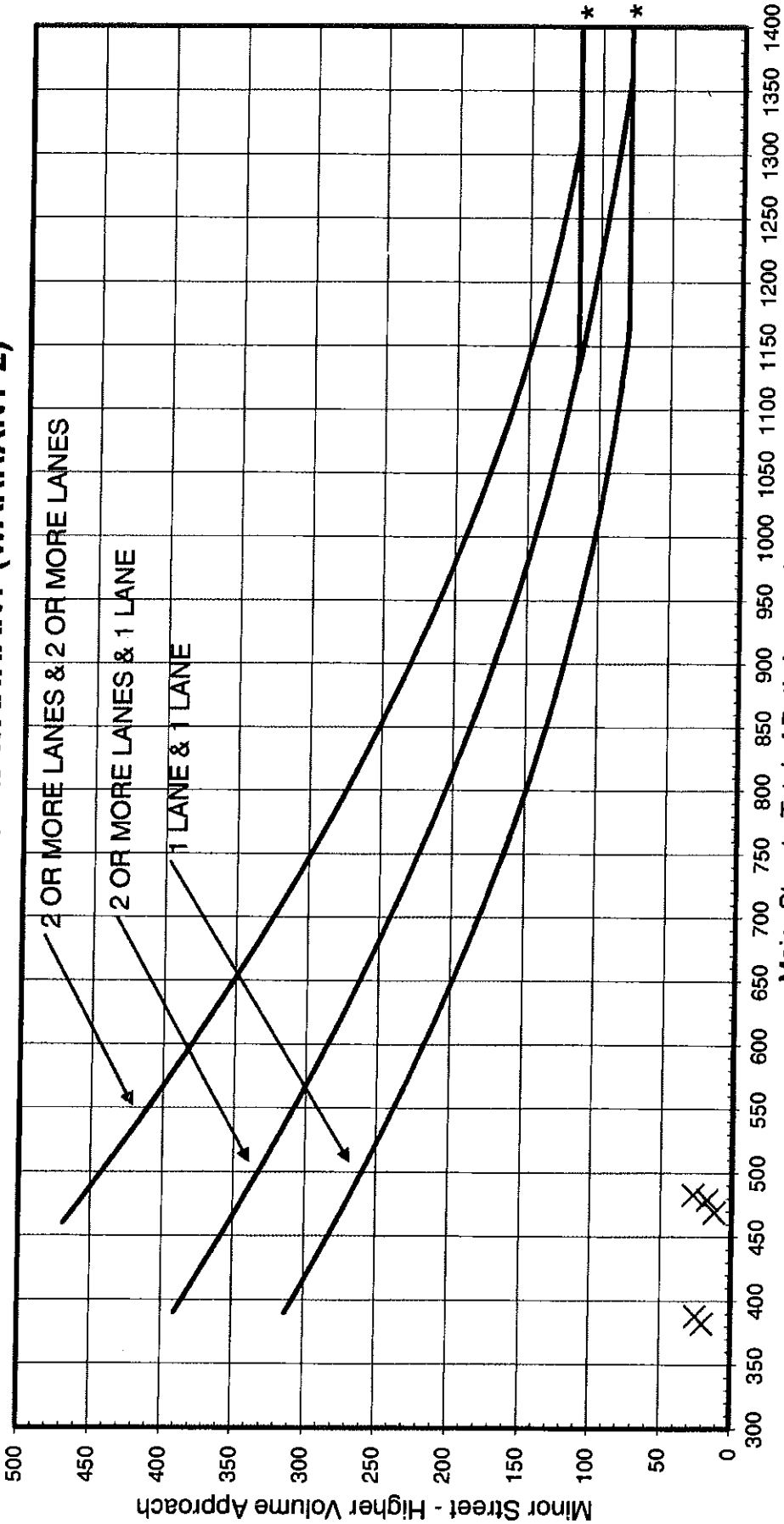
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	May 19, 2011	7:00 AM	10:00 AM	
Thursday	May 19, 2011	11:00 AM	2:00 PM	
Thursday	May 19, 2011	3:00 PM	6:00 PM	

Major Road =	Hayden Ave	Lanes	1
Minor Road =	Alder Ave		1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Meet	No	
Condition B (100%) =	0 Hours Meet	No	
Condition A (80%) =	0 Hours Meet	No	
Condition B (80%) =	0 Hours Meet	No	

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Hayden Ave	Lanes	1
Minor Road =	Alder Ave		1
Road Location =	Urban		

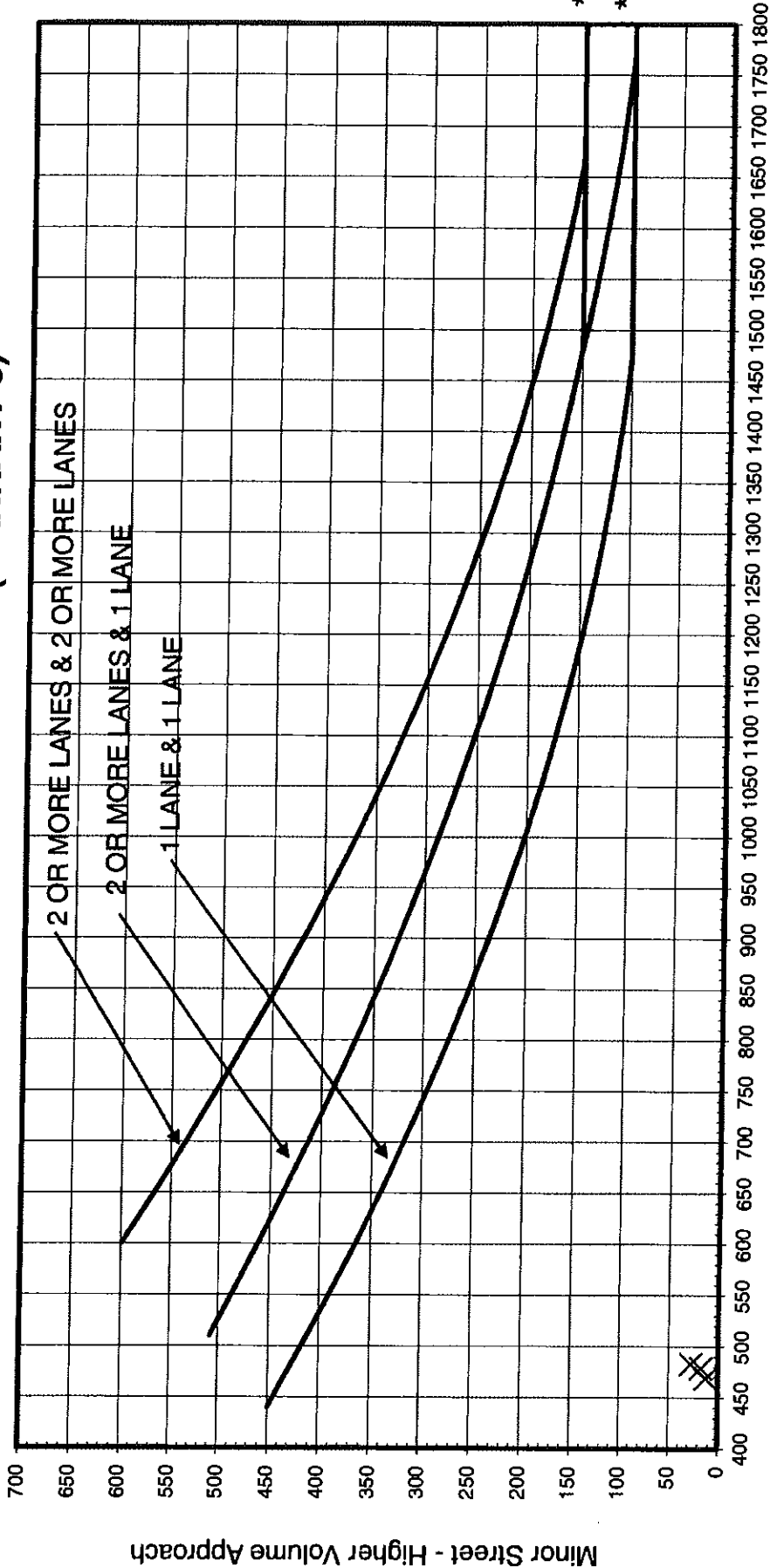
Warrant 2 (Urban) = 0 Hours Meet Warrant Met? NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	May 19, 2011	7:00 AM	10:00 AM	
Thursday	May 19, 2011	11:00 AM	2:00 PM	
Thursday	May 19, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
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PEAK HOUR VOLUME WARRANT (WARRANT 3)



Minor Street - Higher Volume Approach

Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Thursday	May 19, 2011	7:00 AM	10:00 AM	
Thursday	May 19, 2011	11:00 AM	2:00 PM	
Thursday	May 19, 2011	3:00 PM	6:00 PM	

URS
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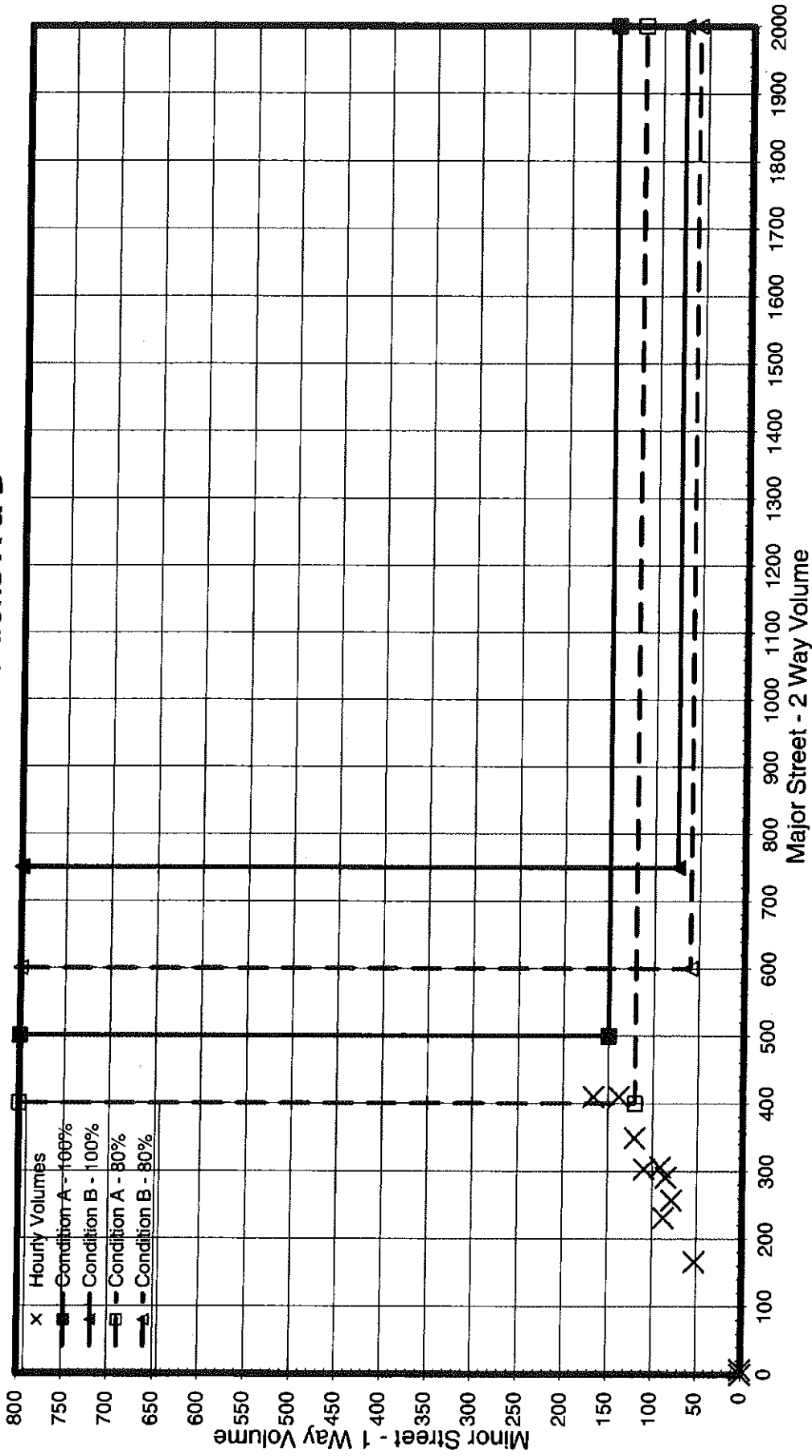
15-MINUTE COUNT DATA
Hayden Ave/Fifth Ave/Doan Ave/RTA

Seasonal Factor	Day of Week	Date	Start Time	End Time
0.944	Wednesday	06/01/11	7:00 AM	10:00 AM
0.944	Wednesday	06/01/11	11:00 AM	2:00 PM
0.944	Wednesday	06/01/11	3:00 PM	6:00 PM

Start Time	Hyaden Avenue Northbound				Hayden Avenue Southbound				Total North South	Fifth Avenue Eastbound			Doan Avenue Westbound			Total East West	RTA Drive NW-bound		Total Northeast Southwest
	To Fifth	To Hayden	To Doan	To RTA	To Doan	To RTA	To Hayden	To Fifth		To Hayden NB	To Doan	To Hayden SB	To Hayden SB	To Fifth	To Hayden NB		To Hayden SB	To Hayden NB	
7:00 AM	3	15	3	0	6	2	15	2	46	0	1	0	2	6	0	3	6	0	4
7:15 AM	1	11	1	0	4	0	9	0	26	0	0	1	7	1	2	11	0	1	
7:30 AM	0	17	0	1	6	2	19	1	46	1	2	1	4	7	4	19	0	1	
7:45 AM	1	19	2	1	9	2	21	1	56	2	6	1	6	5	13	33	0	1	
8:00 AM	0	25	4	4	10	1	19	1	64	0	7	0	3	2	9	21	0	1	
8:15 AM	0	15	3	3	7	0	16	6	50	0	9	0	6	7	21	43	0	0	
8:30 AM	0	25	7	3	7	6	37	0	85	1	4	2	6	4	6	23	0	1	
8:45 AM	0	12	9	0	9	2	20	0	52	2	2	0	10	6	10	30	0	1	
9:00 AM	0	23	4	4	7	1	24	0	63	0	0	1	6	5	3	15	0	0	
9:15 AM	2	28	9	1	6	1	24	0	71	0	4	1	6	3	15	29	3	4	
9:30 AM	0	24	3	2	9	1	24	0	63	0	3	0	8	1	10	22	1	2	
9:45 AM	2	20	9	2	7	1	32	0	73	0	3	1	10	9	5	28	1	0	
11:00 AM	2	31	9	1	6	2	24	0	75	0	5	0	6	8	12	31	1	1	
11:15 AM	1	25	4	0	10	1	31	0	72	1	2	0	7	5	9	24	0	3	
11:30 AM	1	30	7	0	19	2	33	0	92	0	1	2	3	4	10	20	2	4	
11:45 AM	2	17	8	0	16	3	27	3	76	0	5	2	10	7	10	34	0	1	
12:00 PM	0	22	9	0	9	1	24	1	66	0	1	1	5	7	13	27	0	2	
12:15 PM	0	27	6	0	7	1	24	2	67	1	3	3	1	7	14	29	0	3	
12:30 PM	2	23	7	0	15	1	37	1	86	3	6	0	11	4	13	37	0	0	
12:45 PM	0	25	8	0	9	2	33	0	77	1	2	0	0	4	6	13	0	3	
1:00 PM	1	27	7	0	14	2	18	2	71	0	3	0	8	5	15	31	1	0	
1:15 PM	0	33	6	1	15	1	30	0	86	0	4	1	14	6	7	32	1	3	
1:30 PM	1	24	4	2	11	2	26	0	70	0	6	1	9	8	15	39	1	3	
1:45 PM	1	33	9	0	11	0	29	2	85	0	2	0	5	8	10	25	6	4	
3:00 PM	1	49	5	0	11	1	40	2	109	0	2	1	18	6	24	51	4	1	
3:15 PM	0	41	8	0	10	2	32	1	94	0	4	1	11	14	23	53	2	3	
3:30 PM	0	40	9	1	11	1	31	4	97	1	3	1	12	10	17	44	1	2	
3:45 PM	1	51	11	3	18	1	33	3	121	0	7	0	13	9	12	41	3	1	
4:00 PM	2	53	5	1	14	1	33	1	110	0	6	0	10	7	14	37	2	2	
4:15 PM	1	49	7	0	13	0	39	1	110	1	6	3	8	9	18	45	4	3	
4:30 PM	1	41	2	0	19	2	19	0	84	2	2	0	11	9	15	39	1	4	
4:45 PM	2	48	5	0	23	2	33	2	115	0	0	1	10	12	15	38	0	2	
5:00 PM	2	27	7	0	22	0	22	4	84	1	5	0	4	9	11	30	0	2	
5:15 PM	0	36	6	1	13	0	32	4	92	1	5	0	7	10	16	39	0	2	
5:30 PM	1	36	9	0	11	0	34	2	93	0	3	0	15	9	11	38	0	2	
5:45 PM	1	31	7	1	6	0	34	2	82	1	6	0	10	11	7	35	1	1	
Totals	32	1053	219	32	400	47	978	48	2809	19	130	25	282	238	418	1112	35	68	
ADT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Total All Directions 7945
ADT 12755

WARRANT 1 - Conditions A & B

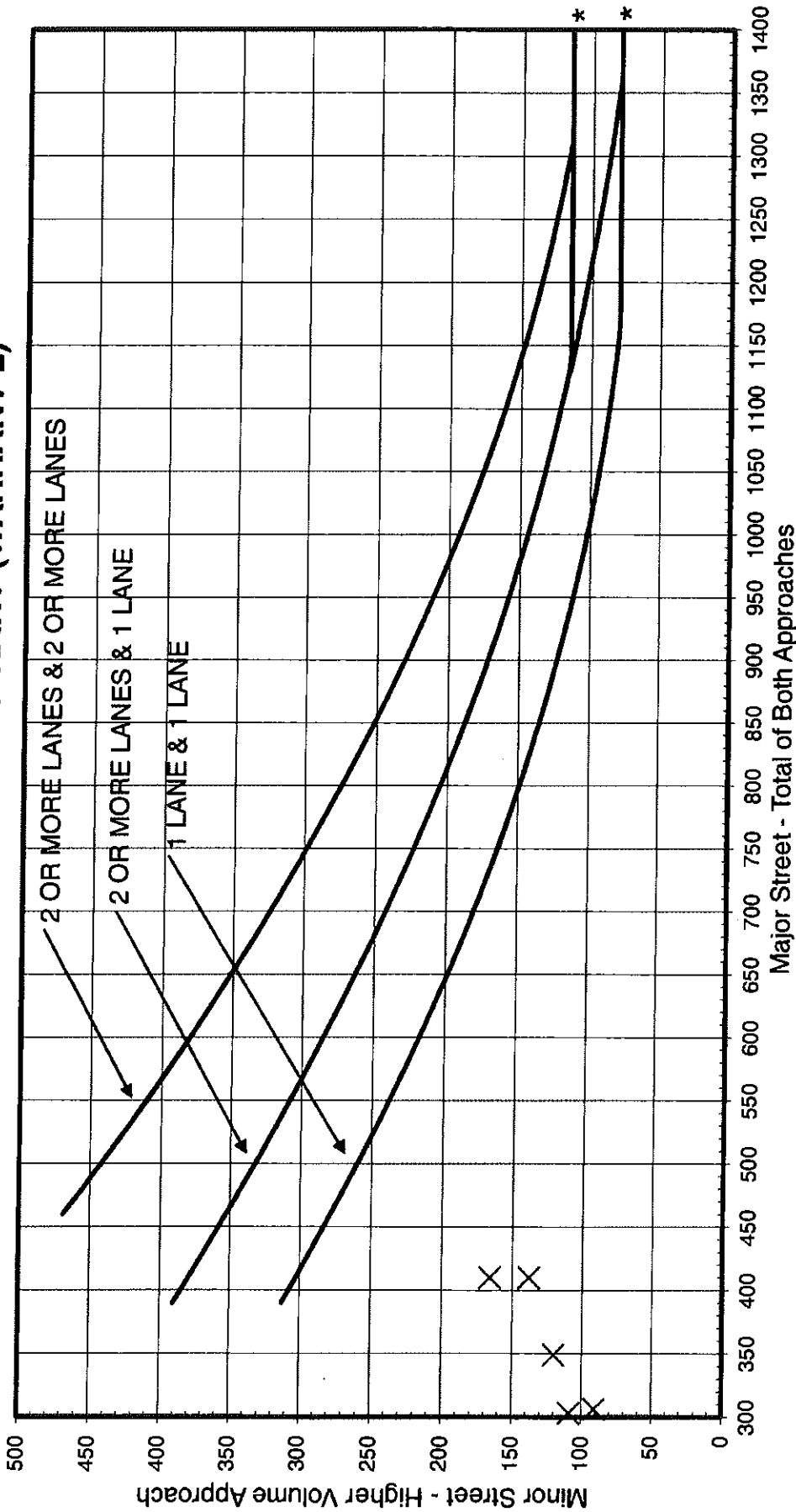


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 1, 2011	7:00 AM	10:00 AM	
Wednesday	June 1, 2011	11:00 AM	2:00 PM	
Wednesday	June 1, 2011	3:00 PM	6:00 PM	

Lanes	
Major Road = Hayden Ave	1
Minor Road = Fifth Ave and Doan Ave	1
Road Location = Urban	
Warrant Met?	
Condition A (100%) = 0 Hours Meet	No
Condition B (100%) = 0 Hours Meet	No
Condition A (80%) = 2 Hours Meet	No
Condition B (80%) = 0 Hours Meet	No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Hayden Ave	Lanes	1
Minor Road =	Fifth Ave and Doan Ave		1
Road Location =	Urban		

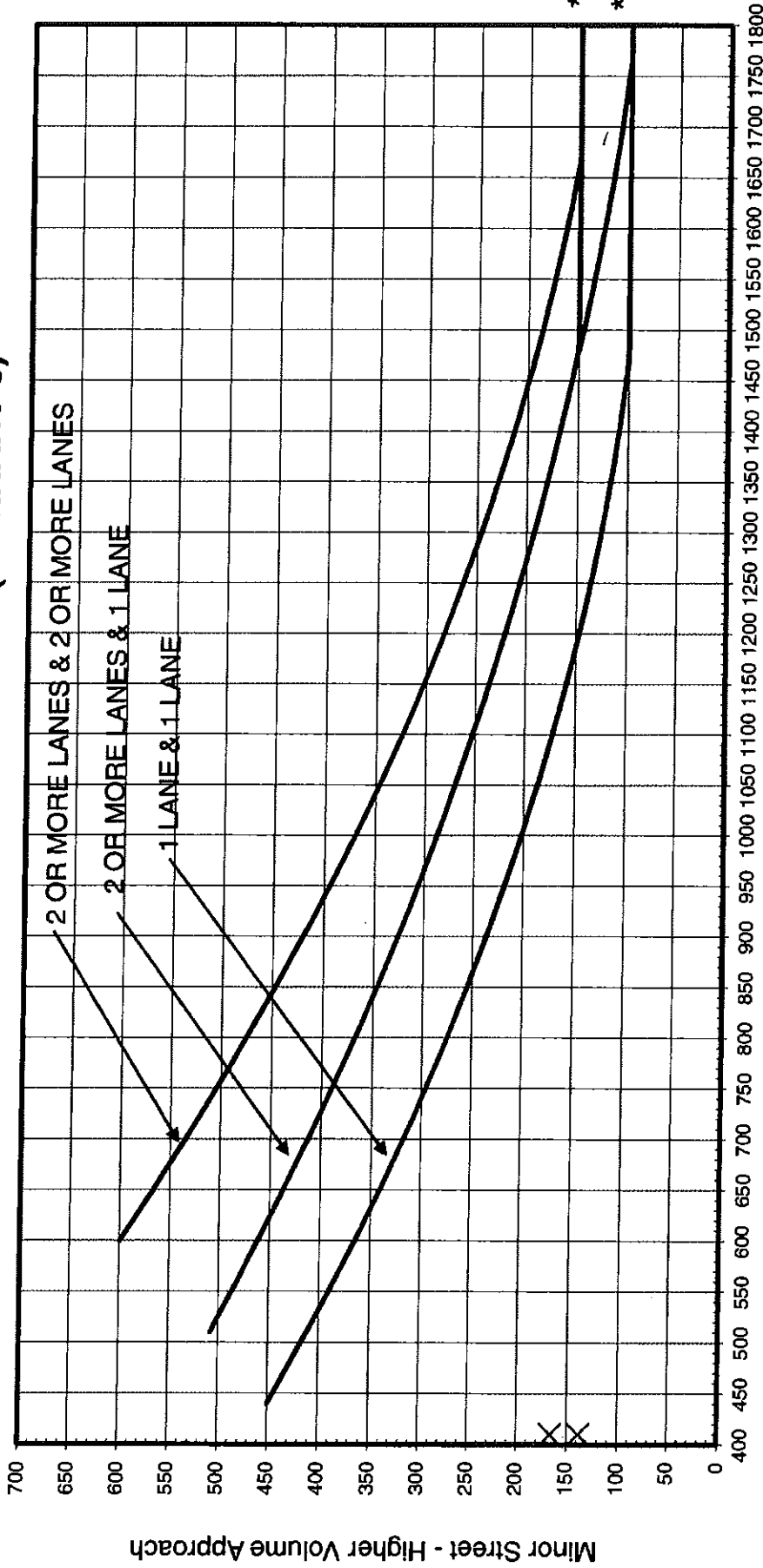
Warrant 2 (Urban) = 0 Hours Meet Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Wednesday	June 1, 2011	7:00 AM	10:00 AM	
Wednesday	June 1, 2011	11:00 AM	2:00 PM	
Wednesday	June 1, 2011	3:00 PM	6:00 PM	

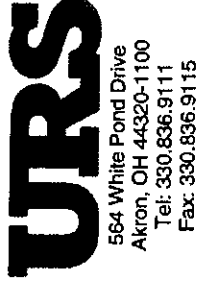


564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 1, 2011	7:00 AM	10:00 AM	
Wednesday	June 1, 2011	11:00 AM	2:00 PM	
Wednesday	June 1, 2011	3:00 PM	6:00 PM	

Major Road =	Hayden Ave	Lanes	1
Minor Road =	Fifth Ave and Doan Ave	Lanes	1
Road Location =	Urban		

Warrant 3 (Urban) = Hours Meets Warrant Met?

15-Minute Count Data Hayden Ave and Holyoke Ave



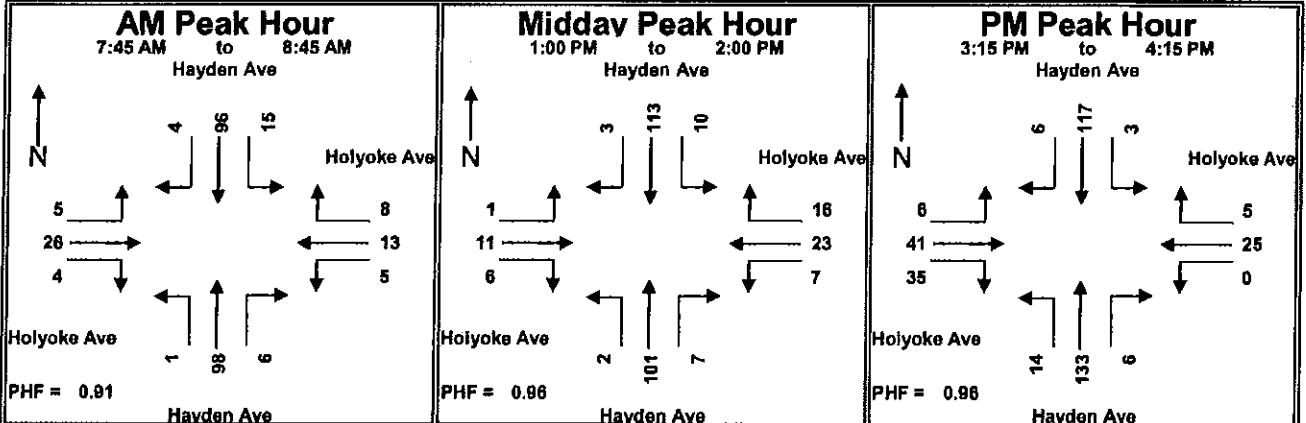
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.981	Monday	May 16, 2011	7:00 AM	10:00 AM	
0.981	Monday	May 16, 2011	11:00 AM	2:00 PM	
0.981	Monday	May 16, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Holyoke Ave Eastbound				Holyoke Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	49	835	59	0	78	893	49	1	1963	28	192	104	0	34	171	83	0	612	2575
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	82	1398	99	0	131	1496	82	2	3288	47	322	174	0	57	286	139	0	1025	4312



Notes:

Hayden/Holyoke
Bus Counts
May 16, 2011

File Name : 2304-05-16-2011 m
Site Code : 00000000
Start Date : 05/16/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
03:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
03:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
03:45 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	
04:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	

15-Minute Count Data

Hayden Ped and Holyoke Ped



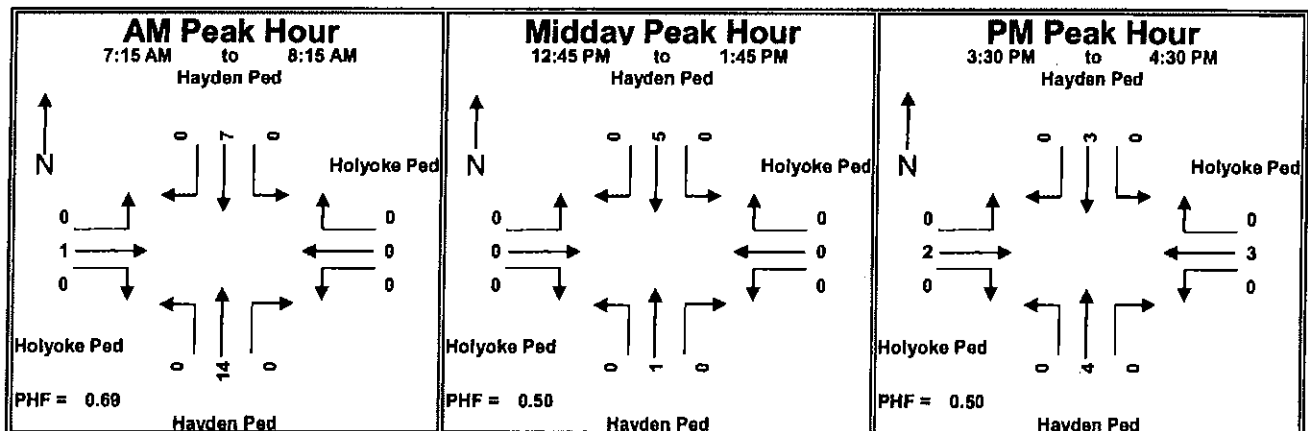
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.981	Monday	May 16, 2011	7:00 AM	10:00 AM	
0.981	Monday	May 16, 2011	11:00 AM	2:00 PM	
0.981	Monday	May 16, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ped Northbound				Hayden Ped Southbound				Total North South	Holyoke Ped Eastbound				Holyoke Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	31	0	0	0	17	0	0	48	0	9	0	0	0	7	0	0	16	64
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	52	0	0	0	28	0	0	80	0	15	0	0	0	12	0	0	27	107
7:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
7:15 AM	0	4	0	0	0	2	0	0	6	0	0	0	0	0	0	0	0	0	6
7:30 AM	0	5	0	0	0	2	0	0	7	0	1	0	0	0	0	0	0	1	8
7:45 AM	0	3	0	0	0	3	0	0	6	0	0	0	0	0	0	0	0	0	6
8:00 AM	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
8:45 AM	0	1	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	2	3
9:00 AM	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	2
9:15 AM	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	1	0	0	0	1	0	0	2	0	0	0	0	0	1	0	0	1	3
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	1	0	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0	3
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2
1:30 PM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3	0	0	3	4
3:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	2
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	4	0	0	0	2	0	0	6	0	0	0	0	0	0	0	0	0	6
4:30 PM	0	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	2	3
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1



Notes:

SIGNAL WARRANT



INTERSECTION: Hayden Ave and Holyoke Ave
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY:

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION SECT: _____
 CALC. BY: _____ CKD BY: _____

OTHER (DESCRIBE):
 ADDITIONAL ITEMS ATTACHED
 SKETCH OR DRAWING
 VEHICULAR VOLUME COUNT
 TRAFFIC PROJECTION
 ACCIDENT DATA
 PEDESTRIAN COUNT
 GAP ANALYSIS

COND. NO. OF LANE	ADJUSTED HOURLY VOLUMES				CONDITION A						CONDITION B						WARRANT #1	WARRANT #2	WARRANT #3
	2-WAY		1-WAY		100%		80%		100%		80%		100%		80%				
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR			
NORM	1	X	0	0	500	150	400	120	750	75	600	60	600	100	720	80	PEAK HOUR		
	2+	X	0	0	600	200	480	160	900	100	720	80	600	100	720	80	FOUR HOUR		
70%	1		0	0	350	105	280	84	525	53	420	42	420	70	504	56			
	2+		0	0	420	140	336	112	630	70	504	56							
MID-1AM	0	0	0	0															
1AM-2AM	0	0	0	0															
2AM-3AM	0	0	0	0															
3AM-4AM	0	0	0	0															
4AM-5AM	0	0	0	0															
5AM-6AM	0	0	0	0															
6AM-7AM	0	0	0	0															
7AM-8AM	145	18	25	25															
8AM-9AM	216	29	23	23															
9AM-10AM	177	26	34	34															
10AM-11AM	0	0	0	0															
11AM-NOON	194	19	23	23															
NOON-1PM	175	29	32	32															
1PM-2PM	236	18	46	46															
2PM-3PM	0	0	0	0															
3PM-4PM	261	78	30	30															
4PM-5PM	293	65	37	37															
5PM-6PM	266	52	38	38															
6PM-7PM	0	0	0	0															
7PM-8PM	0	0	0	0															
8PM-9PM	0	0	0	0															
9PM-10PM	0	0	0	0															
10PM-11PM	0	0	0	0															
11PM-MID	0	0	0	0															
HOURS MET																			
WARRANT SATISFIED?																			
0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO 0 NO																			

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 150 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisficed? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____ NO
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisficed? _____ NO

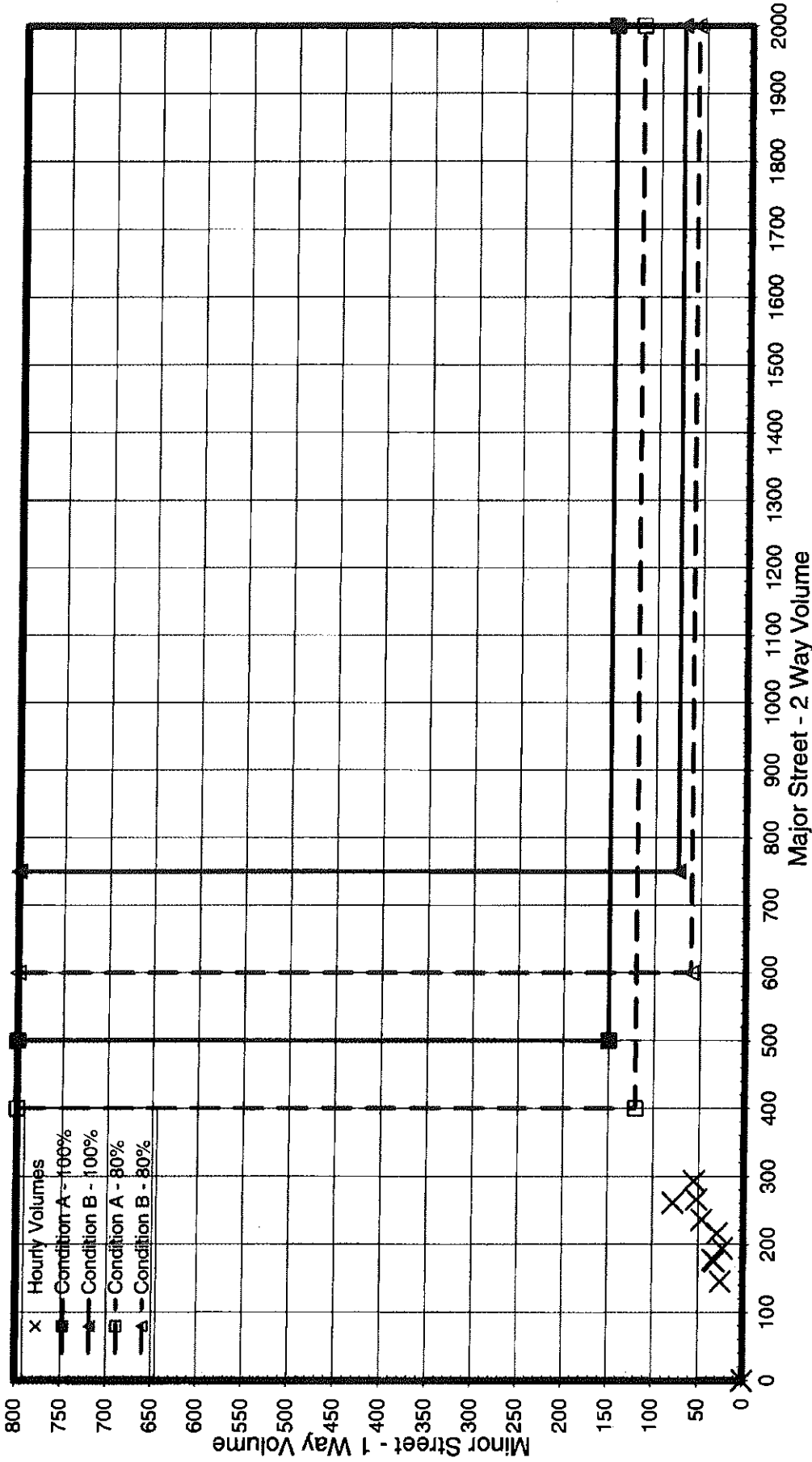
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____ TWO-WAY
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisficed? _____ NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisficed? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisficed? _____ NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

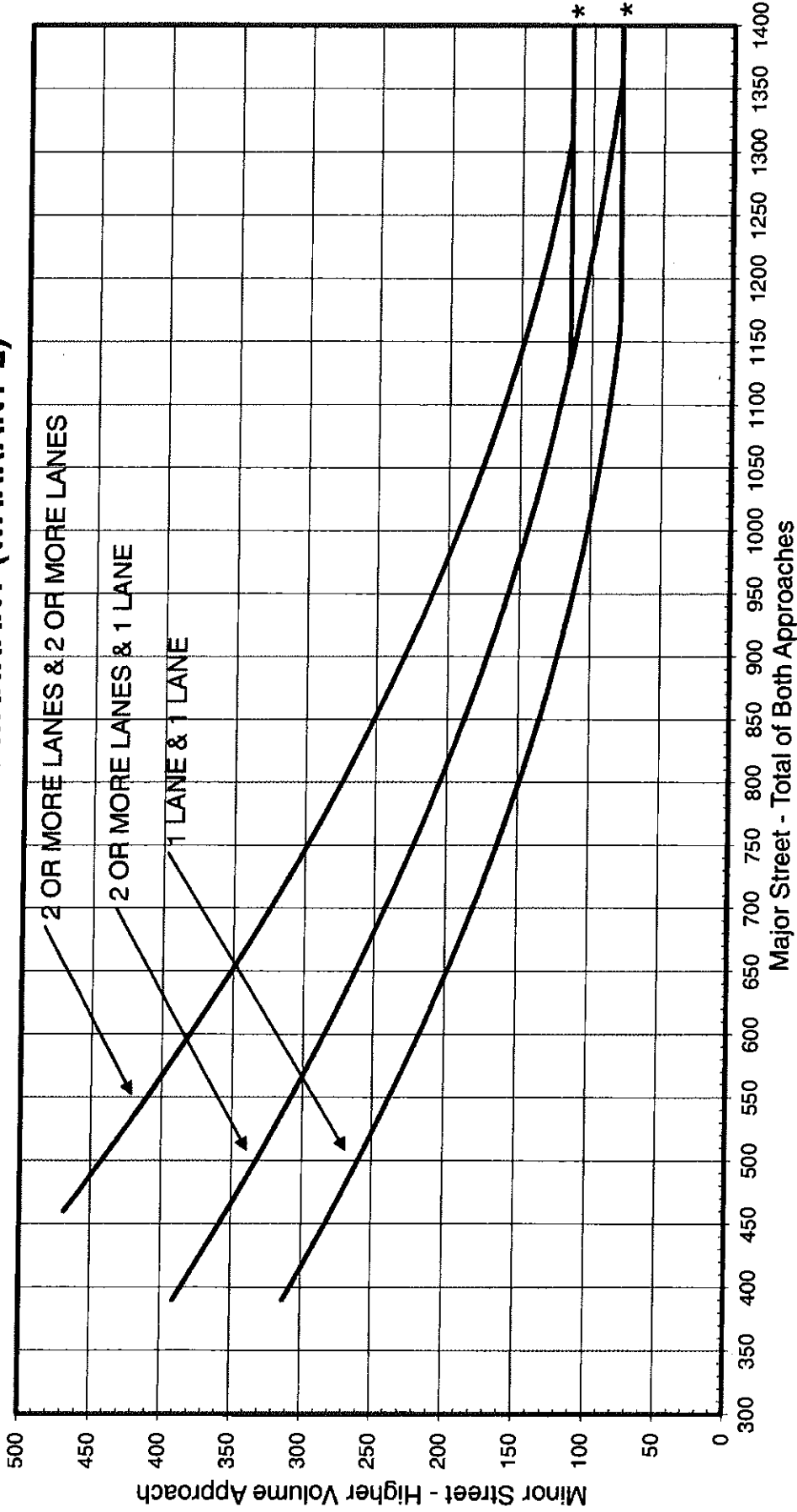


Major Road =	Flavden Ave	Lanes	1
Minor Road =	Holyoke Ave		1
Road Location =	Urban		
Condition A (100%) =	0 Hours Meet	Warrant Met?	No
Condition B (100%) =	0 Hours Meet		No
Condition A (80%) =	0 Hours Meet		No
Condition B (80%) =	0 Hours Meet		No

Day of Week	Date & Year	Hours		Weather
		From	To	
Monday	May 16, 2011	7:00 AM	10:00 AM	
Monday	May 16, 2011	11:00 AM	2:00 PM	
Monday	May 16, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Hayden Ave	Lanes	1
Minor Road =	Holyoke Ave		1
Road Location =	Urban		

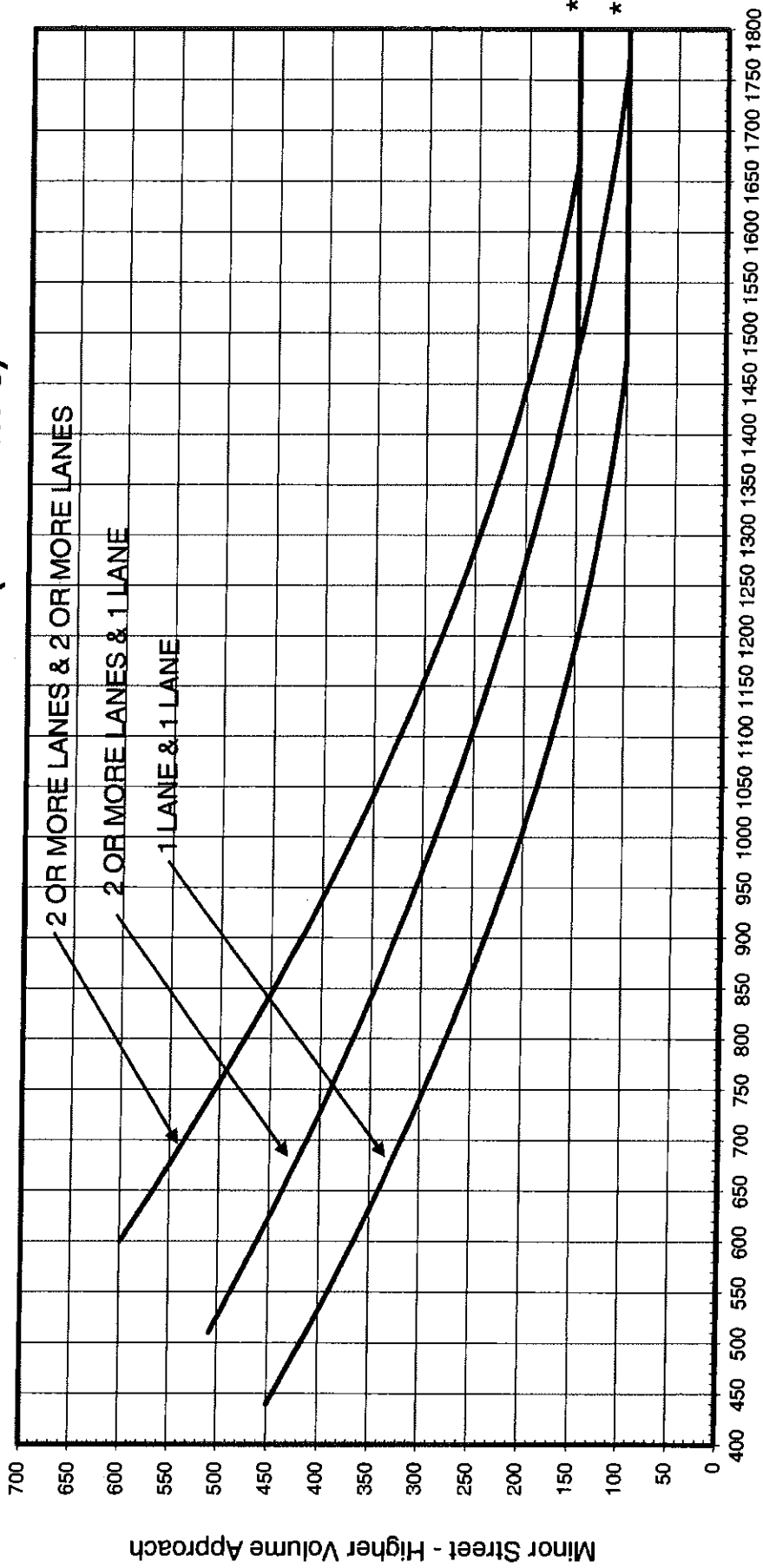
Warrant 2 (Urban) = 0 Hours Meet Warrant Met? NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Monday	May 16, 2011	7:00 AM	10:00 AM	
Monday	May 16, 2011	11:00 AM	2:00 PM	
Monday	May 16, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes

Minor Road = Lanes

Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Monday	May 16, 2011	7:00 AM	10:00 AM	
Monday	May 16, 2011	11:00 AM	2:00 PM	
Monday	May 16, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
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15-Minute Count Data Hayden Ave and Lakefront Ave



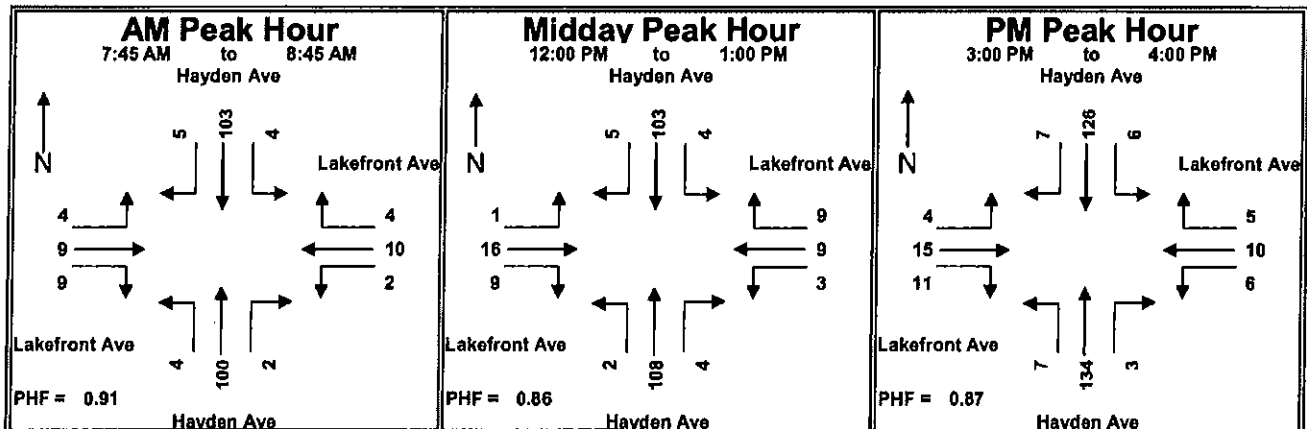
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 17, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 17, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 17, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Lakefront Ave Eastbound				Lakefront Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	41	881	24	0	36	903	30	0	1915	42	113	83	0	15	75	32	0	360	2275
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	64	1367	37	0	56	1401	47	0	2971	65	175	129	0	23	116	50	0	558	3529



Notes:

Hayden/Lakefront
Bus Counts
May 17, 2011

File Name : 2304-05-17-2011 m
Site Code : 00051711
Start Date : 05/17/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot.
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

Hayden/Lakefront
 Bus Counts
 May 17, 2011

File Name : 2304-05-17-2011 r
 Site Code : 00051711
 Start Date : 05/17/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	1	6	0	0	0	0	0	0	0	1	0	0	1	0	1	0		1
Apprch %	14.3	85.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	50.0	0.0	50.0	0.0		
Total %	10.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	10.0	0.0		

15-Minute Count Data Hayden Ped and Lakefront Ped



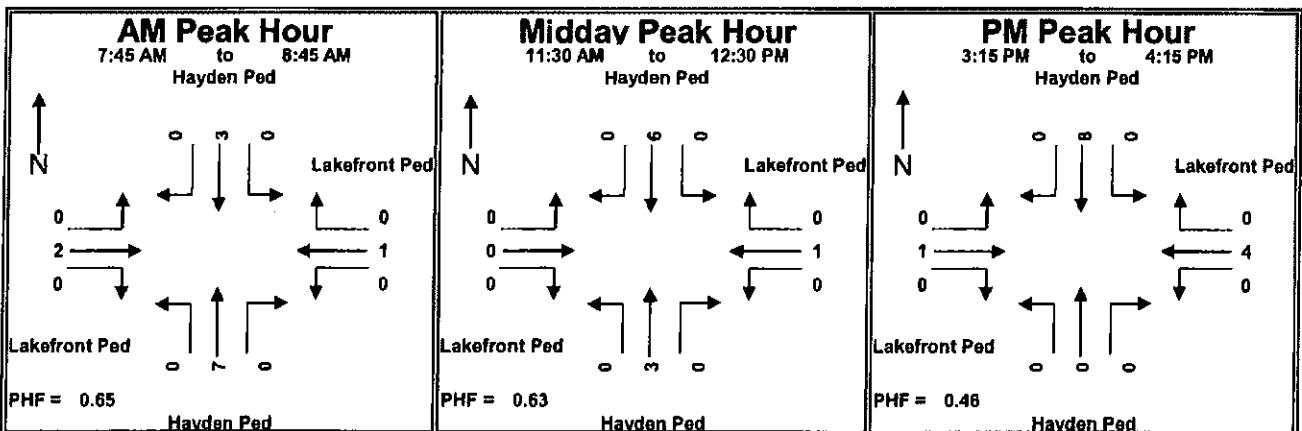
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 17, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 17, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 17, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ped Northbound				Hayden Ped Southbound				Total North South	Lakefront Ped Eastbound				Lakefront Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	18	0	0	0	29	0	0	47	0	4	0	0	0	9	0	0	13	60
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	28	0	0	0	45	0	0	73	0	6	0	0	0	14	0	0	20	93



Notes:

SIGNAL WARRANT



INTERSECTION: Hayden Ave and Lakewood Ave
 LOCATION IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N:1 S:1 E:1 W:1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CC: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____

OTHER (DESCRIBE):

ADDITIONAL ITEMS ATTACHED
 SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

COND. NO. OF TION LINES	ADJUSTED HOURLY VOLUMES				WARRANT #1						WARRANT #2		WARRANT #3			
	MAJOR ST		MINOR ST		100%		80%		100%		80%		FOUR HOUR		PEAK HOUR	
	2-WAY	1-WAY	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR
NORM	2+	X		X	600	200	480	160	900	100	720	80				
	1				350	105	280	84	525	53	420	42				
	2+				420	140	336	112	630	70	504	56				
	MID-1AM	0	0	0												
	1AM-2AM	0	0	0												
	2AM-3AM	0	0	0												
	3AM-4AM	0	0	0												
	4AM-5AM	0	0	0												
	5AM-6AM	0	0	0												
	6AM-7AM	0	0	0												
	7AM-8AM	141	24	0												
	8AM-9AM	206	20	13												
	9AM-10AM	193	20	6												
	10AM-11AM	0	0	0												
	11AM-NOON	179	28	8												
	NOON-1PM	226	26	21												
	1PM-2PM	187	27	11												
	2PM-3PM	0	0	0												
	3PM-4PM	283	30	21												
	4PM-5PM	255	37	14												
	5PM-6PM	245	26	22												
	6PM-7PM	0	0	0												
	7PM-8PM	0	0	0												
	8PM-9PM	0	0	0												
	9PM-10PM	0	0	0												
	10PM-11PM	0	0	0												
	11PM-MID	0	0	0												
	HOURS MET	0	0	0												
	WARRANT SATISFIED?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 150 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

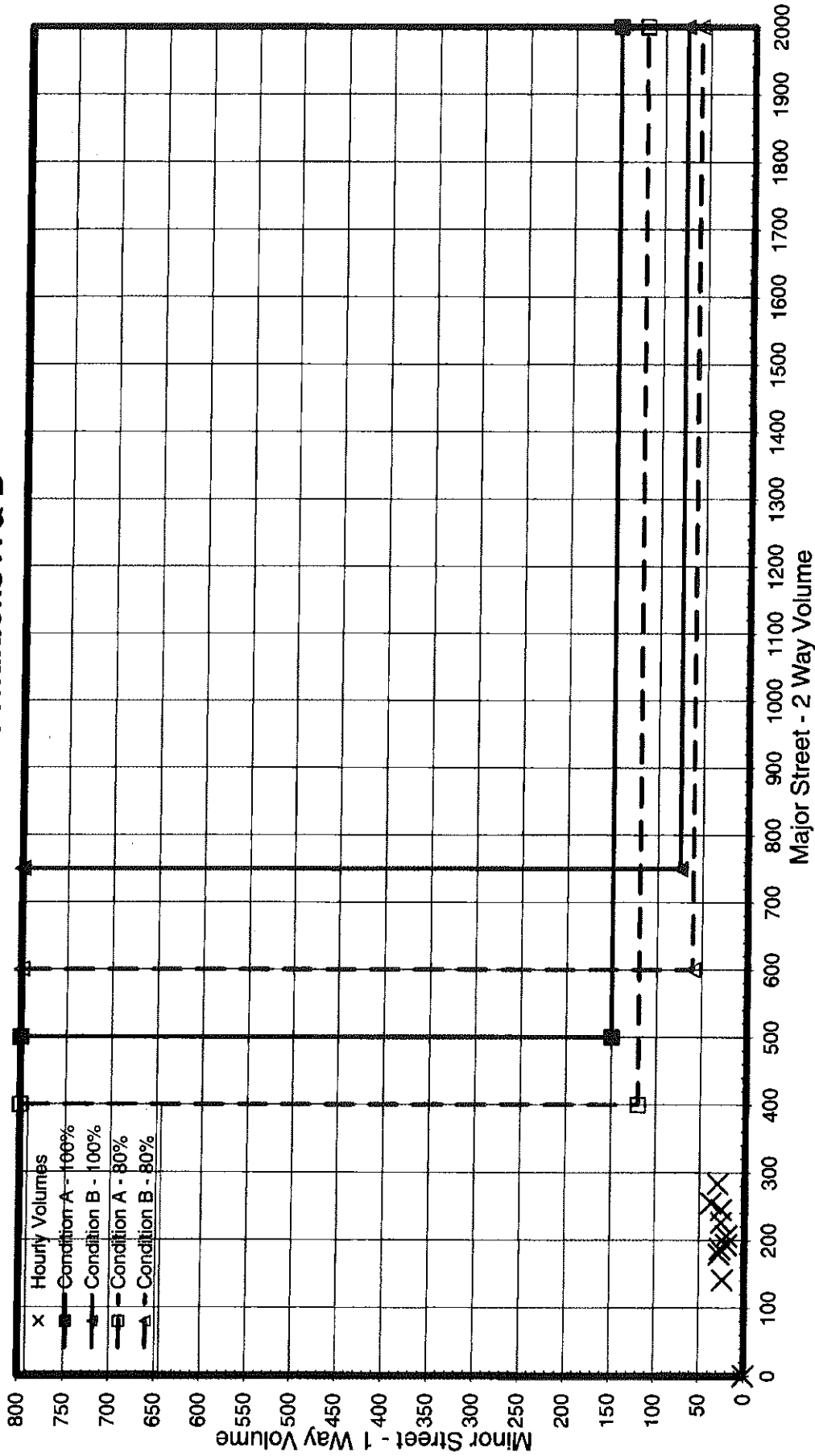
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets characteristic requirements? _____
 Warrant Satisfied? _____

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

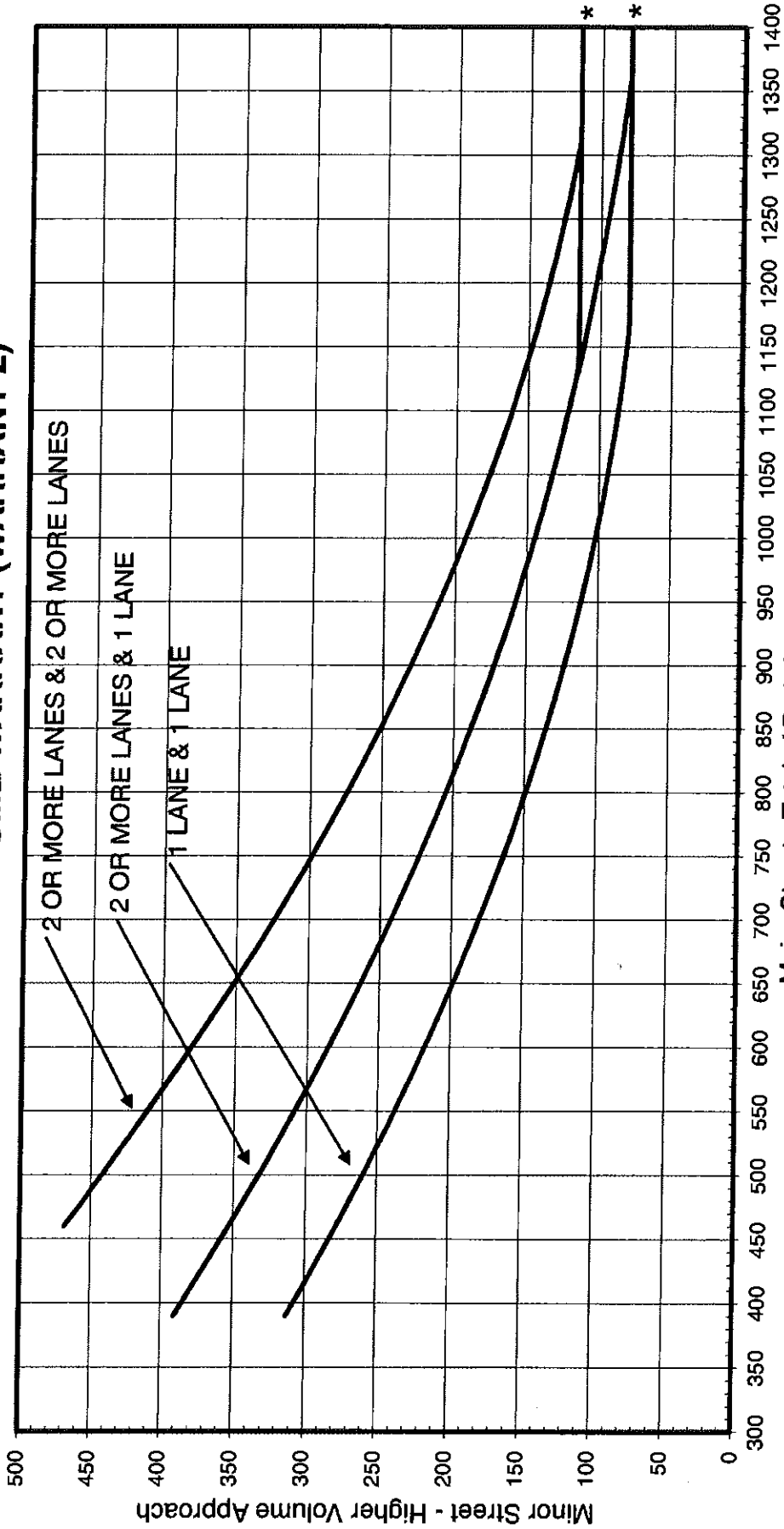


Day of Week	Date & Year	From	To	Weather
Tuesday	May 17, 2011	7:00 AM	10:00 AM	
Tuesday	May 17, 2011	11:00 AM	2:00 PM	
Tuesday	May 17, 2011	3:00 PM	6:00 PM	

Major Road =	Minor Road =	Road Location =	Lanes	Warrant Met?
Hayden Ave	Lakefront Ave	Urban	1	No
			1	No
Condition A (100%) =	0 Hours Meet			No
Condition B (100%) =	0 Hours Meet			No
Condition A (80%) =	0 Hours Meet			No
Condition B (80%) =	0 Hours Meet			No

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



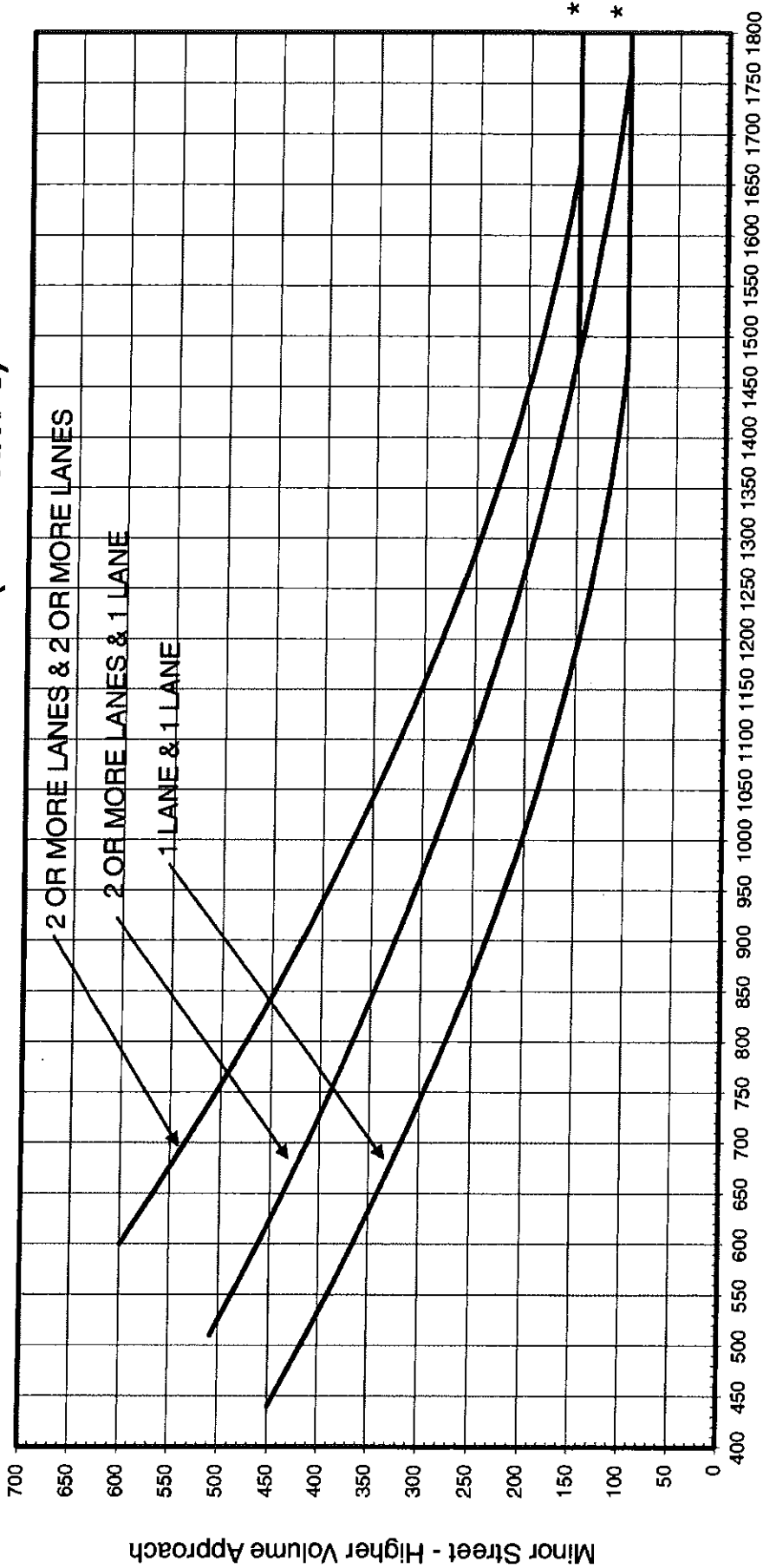
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 17, 2011	7:00 AM	10:00 AM	
Tuesday	May 17, 2011	11:00 AM	2:00 PM	
Tuesday	May 17, 2011	3:00 PM	6:00 PM	

Major Road =
 Minor Road =
 Road Location =

Lanes
 Warrant Met?
 Warrant 2 (Urban) = Hours Meet

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes

Minor Road = Lanes

Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 17, 2011	7:00 AM	10:00 AM	
Tuesday	May 17, 2011	11:00 AM	2:00 PM	
Tuesday	May 17, 2011	3:00 PM	6:00 PM	



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15-Minute Count Data Hayden Ave and Mann Ave



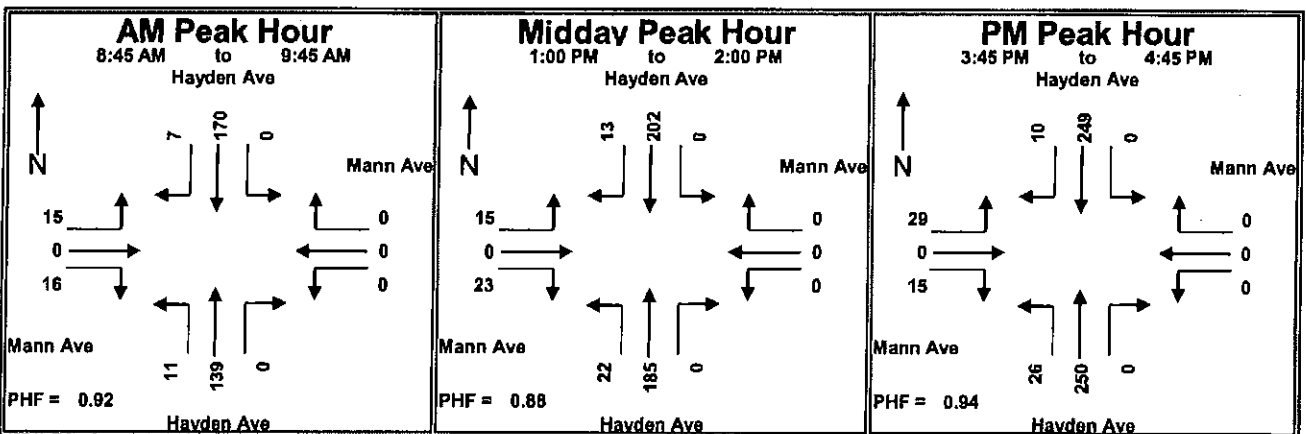
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 18, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 18, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 18, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North	Mann Ave Eastbound				Mann Ave Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	131	1492	1	11	0	1622	60	7	3306	153	1	132	0	0	0	0	0	286	3592
	Percent Trucks = 1%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	201	2286	2	17	0	2486	92	11	5066	234	2	202	0	0	0	0	0	438	5504



Notes:

Hayden/Mann
Bus Counts
May 18, 2011

File Name : 2304-05-18-20
Site Code : 00051811
Start Date : 05/18/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
07:15 AM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
07:30 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
07:45 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	6	0	0	0	0	0	0	0	5	0	0	0	0	0	0	1
08:00 AM	0	8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
08:15 AM	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	5	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	24	2	0	0	0	0	0	0	2	0	0	0	0	0	0	2
09:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 AM	0	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
09:30 AM	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
09:45 AM	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	17	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
12:00 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:45 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
01:15 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
01:30 PM	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
01:45 PM	0	2	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
Total	0	4	0	0	0	0	0	0	0	14	0	0	0	0	0	0	1
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
03:15 PM	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
03:30 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
03:45 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total	0	7	0	0	0	0	0	0	0	9	0	0	0	0	0	0	1
04:00 PM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
04:30 PM	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
04:45 PM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	5	0	0	0	0	0	0	0	14	0	0	0	0	0	0	1

15-Minute Count Data Hayden Ped and Mann Ped



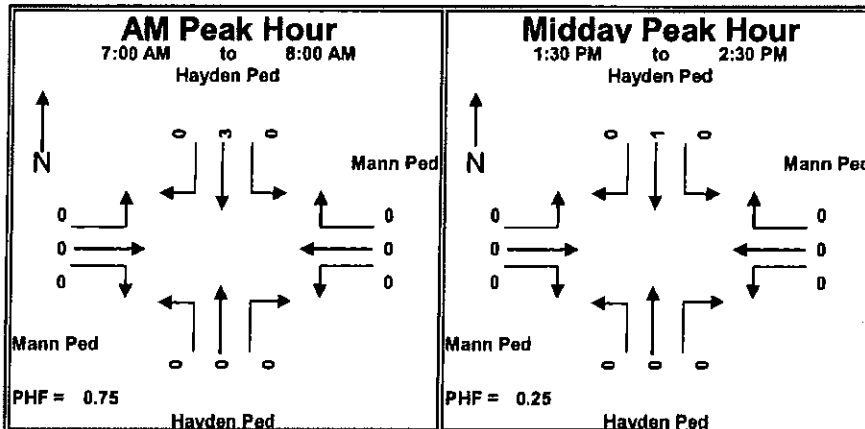
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 18, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 18, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 18, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ped Northbound				Hayden Ped Southbound				Total North South	Mann Ped Eastbound				Mann Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	5
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	8
7:00 AM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Notes:

SIGNAL WARRANT



INTERSECTION: Hayden Ave and Main Ave
 LOCATED IN CITY/VILLAGE/RURAL: 7 / Urban
 NUMBER OF LANES PER APPROACH: N:1 S:1 E:1 W:1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY:

CO. _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED
 SKETCH OR DRAWING _____
 VEHICULAR VOLUME COUNT _____
 TRAFFIC PROJECTION _____
 ACCIDENT DATA _____
 PEDESTRIAN COUNT _____
 GAP ANALYSIS _____

OTHER (DESCRIBE): _____
 SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES				CONDITION A						CONDITION B						WARRANT #2 FOUR HOUR	WARRANT #3 PEAK HOUR
	MAJOR ST		MINOR ST		100%		80%		100%		80%		100%		80%			
	2-WAY	1-WAY	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR		
NORM	X		X		500	150	400	120	750	75	600	60						
70%					600	200	480	160	900	100	720	80						
					350	105	280	84	525	53	420	42						
					420	140	336	112	630	70	504	56						
MID-1AM																		
1AM-2AM																		
2AM-3AM																		
3AM-4AM																		
4AM-5AM																		
5AM-6AM																		
6AM-7AM																		
7AM-8AM																		
8AM-9AM																		
9AM-10AM																		
10AM-11AM																		
11AM-NOON																		
NOON-1PM																		
1PM-2PM																		
2PM-3PM																		
3PM-4PM																		
4PM-5PM																		
5PM-6PM																		
6PM-7PM																		
7PM-8PM																		
8PM-9PM																		
9PM-10PM																		
10PM-11PM																		
11PM-MID																		
HOURS MET																		
WARRANT SATISFIED?																		

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____ NO
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

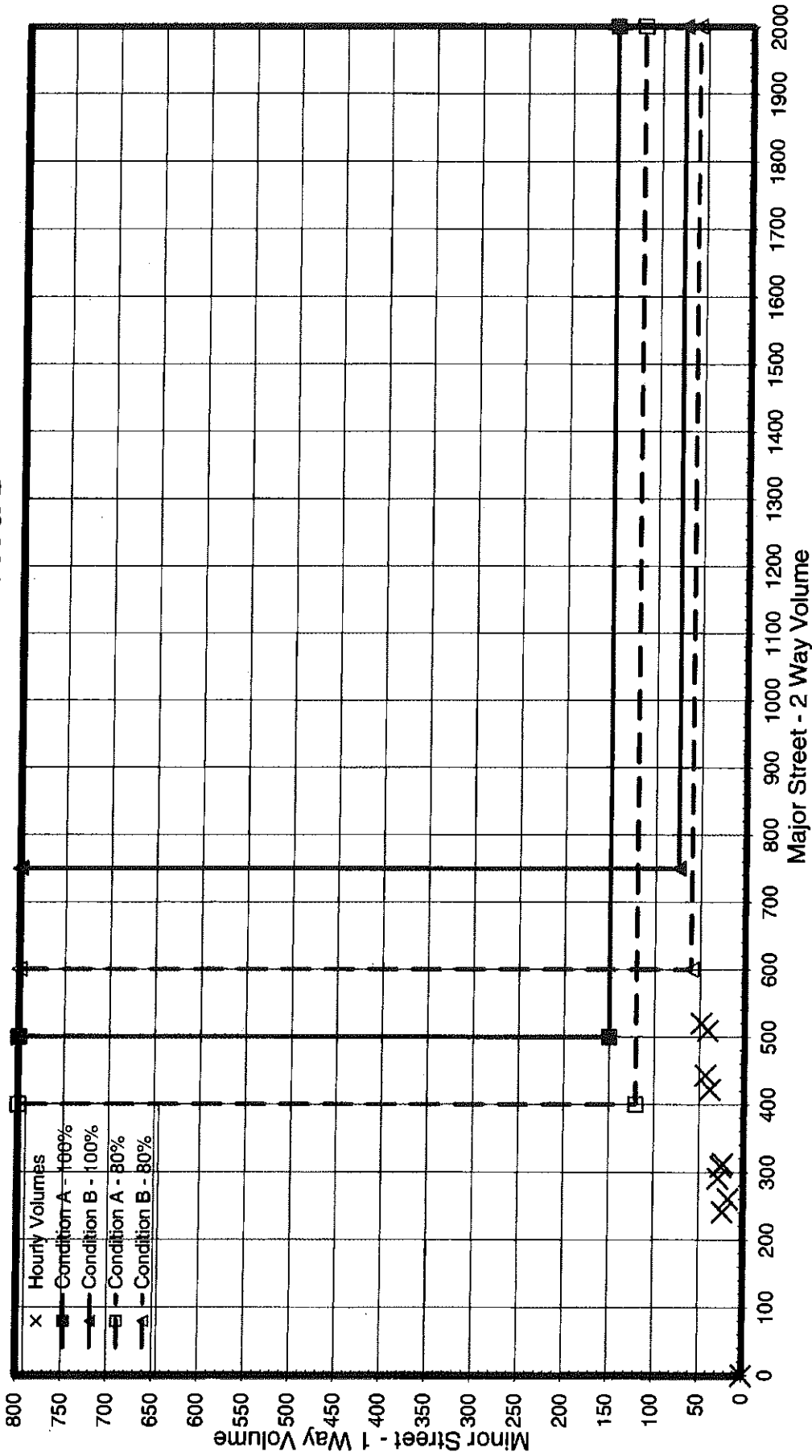
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____ TWO-WAY
 Distances to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets characteristic requirements? _____
 Warrant Satisfied? _____ NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

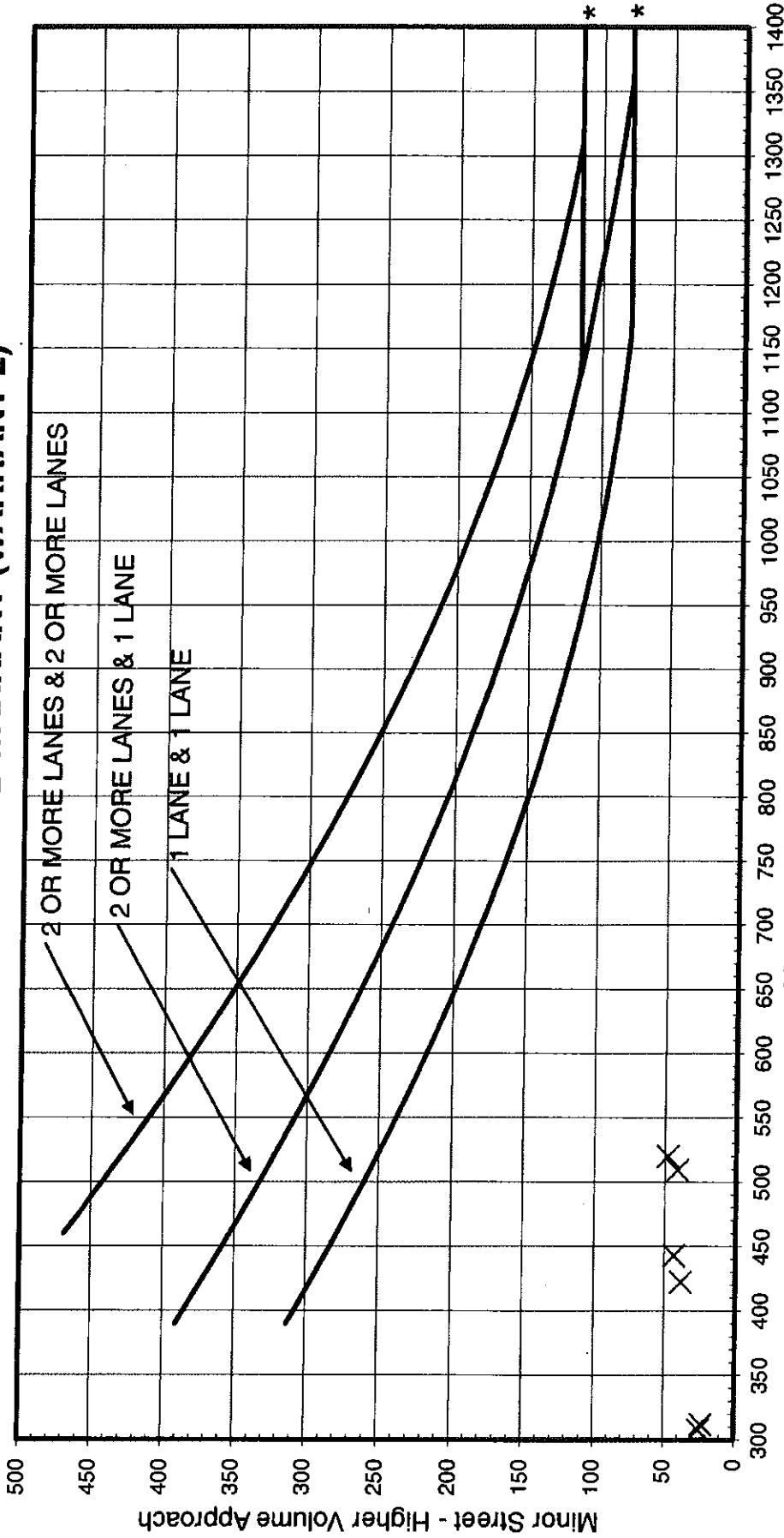
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	May 18, 2011	7:00 AM	10:00 AM	
Wednesday	May 18, 2011	11:00 AM	2:00 PM	
Wednesday	May 18, 2011	3:00 PM	6:00 PM	

Major Road =	Minor Road =	Road Location =	Lanes	Warrant Met?
Hayden Ave	Marr Ave	Urban	1	
			1	
Condition A (100%) =	0 Hours Meet	No		
Condition B (100%) =	0 Hours Meet	No		
Condition A (80%) =	0 Hours Meet	No		
Condition B (80%) =	0 Hours Meet	No		

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



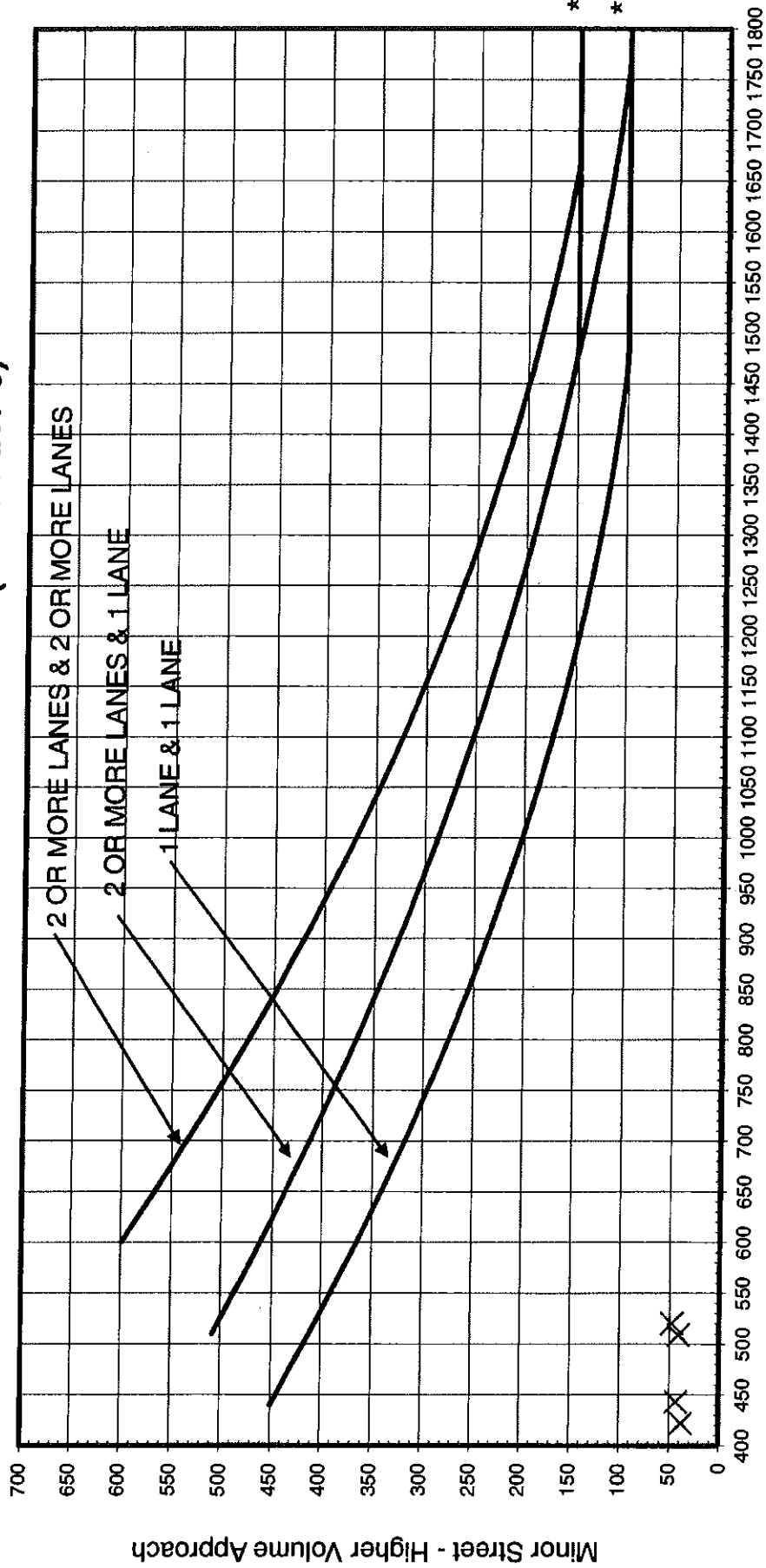
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	May 18, 2011	7:00 AM	10:00 AM	
Wednesday	May 18, 2011	11:00 AM	2:00 PM	
Wednesday	May 18, 2011	3:00 PM	6:00 PM	

Major Road =
 Minor Road =
 Road Location =

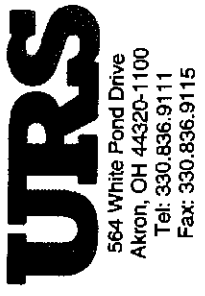
Lanes:
 Warrant Met?
 Warrant 2 (Urban) =

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



Day of Week	Date & Year	From	To	Weather
Wednesday	May 18, 2011	7:00 AM	10:00 AM	
Wednesday	May 18, 2011	11:00 AM	2:00 PM	
Wednesday	May 18, 2011	3:00 PM	6:00 PM	

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

15-Minute Count Data

Hayden Ave and Claiborne Rd and Northfield Ave E. Cleveland, Ohio

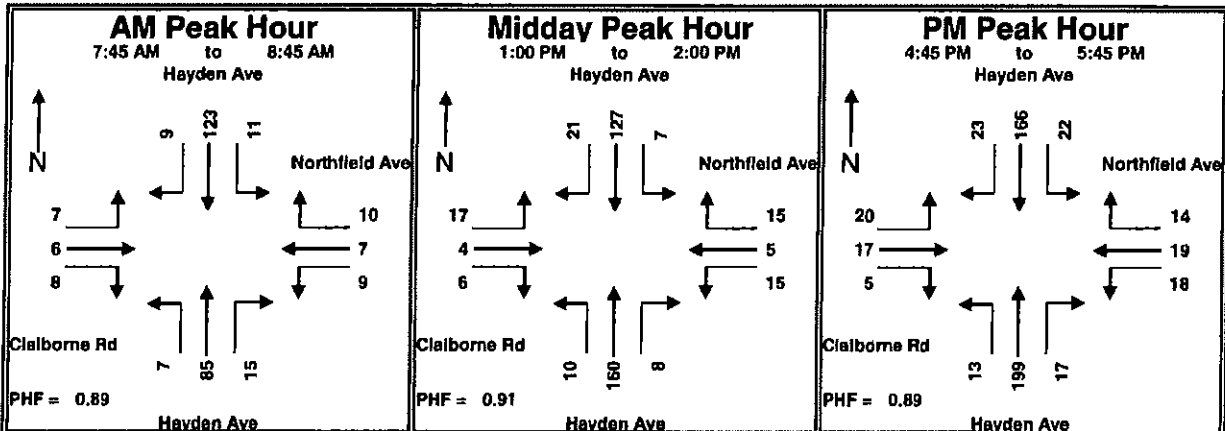


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.954	Tuesday	June 7, 2011	7:00 AM	10:00 AM	Rain
0.954	Tuesday	June 7, 2011	11:00 AM	2:00 PM	Hot
0.954	Tuesday	June 7, 2011	3:00 PM	6:00 PM	Hot

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Claiborne Rd Eastbound				Northfield Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	66	1189	118	32	96	1149	144	19	2760	115	64	49	1	90	95	84	2	507	3267
	Percent Trucks = 2%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 1%					
ADT	107	1936	189	52	156	1871	234	31	4493	187	104	80	2	147	155	153	3	825	5319



Notes:

Hayden/Northfield/Claiborne
Bus Counts
June 7, 2011

File Name : 2056-6-7-2011 m
Site Code : 06072011
Start Date : 06/07/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	1	1	0	0	0	1	0	0	3	0	0	0	0	0	0	
07:15 AM	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	
07:30 AM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
07:45 AM	0	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	
Total	0	5	1	0	0	0	1	0	0	7	2	0	0	0	1	0	1
08:00 AM	0	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
08:15 AM	0	4	0	0	0	0	1	0	2	1	0	0	0	0	0	0	
08:30 AM	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:45 AM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	13	0	0	0	0	2	0	2	4	0	0	0	0	0	0	2
09:00 AM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
09:30 AM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
09:45 AM	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	12	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:45 PM	0	1	0	0	0	0	0	0	0	5	0	0	0	0	0	0	
Total	0	3	0	0	0	0	0	0	0	8	0	0	0	0	0	0	1
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
03:15 PM	0	1	0	0	0	0	1	0	0	2	0	0	0	0	0	0	
03:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
03:45 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Total	0	4	0	0	0	0	1	0	0	7	0	0	0	0	0	0	1
04:00 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
04:15 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
04:30 PM	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
04:45 PM	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	
Total	0	4	0	0	2	0	0	0	0	9	0	0	0	0	0	0	1

Hayden/Northfield/Claiborne
 Bus Counts
 June 7, 2011

File Name : 2056-6-7-2011 m
 Site Code : 06072011
 Start Date : 06/07/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05:15 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05:30 PM	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total	1	11	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Grand Total	1	55	1	0	2	0	4	0	2	45	2	0	0	0	1	0	11
Apprch %	1.8	98.5	1.8	0.0	33.3	0.0	66.7	0.0	4.1	91.8	4.1	0.0	0.0	0.0	100.0	0.0	
Total %	0.9	48.7	0.9	0.0	1.8	0.0	3.5	0.0	1.8	39.8	1.8	0.0	0.0	0.0	0.9	0.0	

SIGNAL WARRANT



INTERSECTION: Hayden Ave and Claborn Rd and Northfield Ave
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 2 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes _____ No _____ DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____
 CO: Cuyahoga COUNTY CONSULTANT: URS CORPORATION CALC. BY: _____
 SET: _____ RTE: _____
 CKD BY: _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO
WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____ NO
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
Warrant Satisfied? _____ NO

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____ TWO-WAY
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
Warrant Satisfied? _____ NO

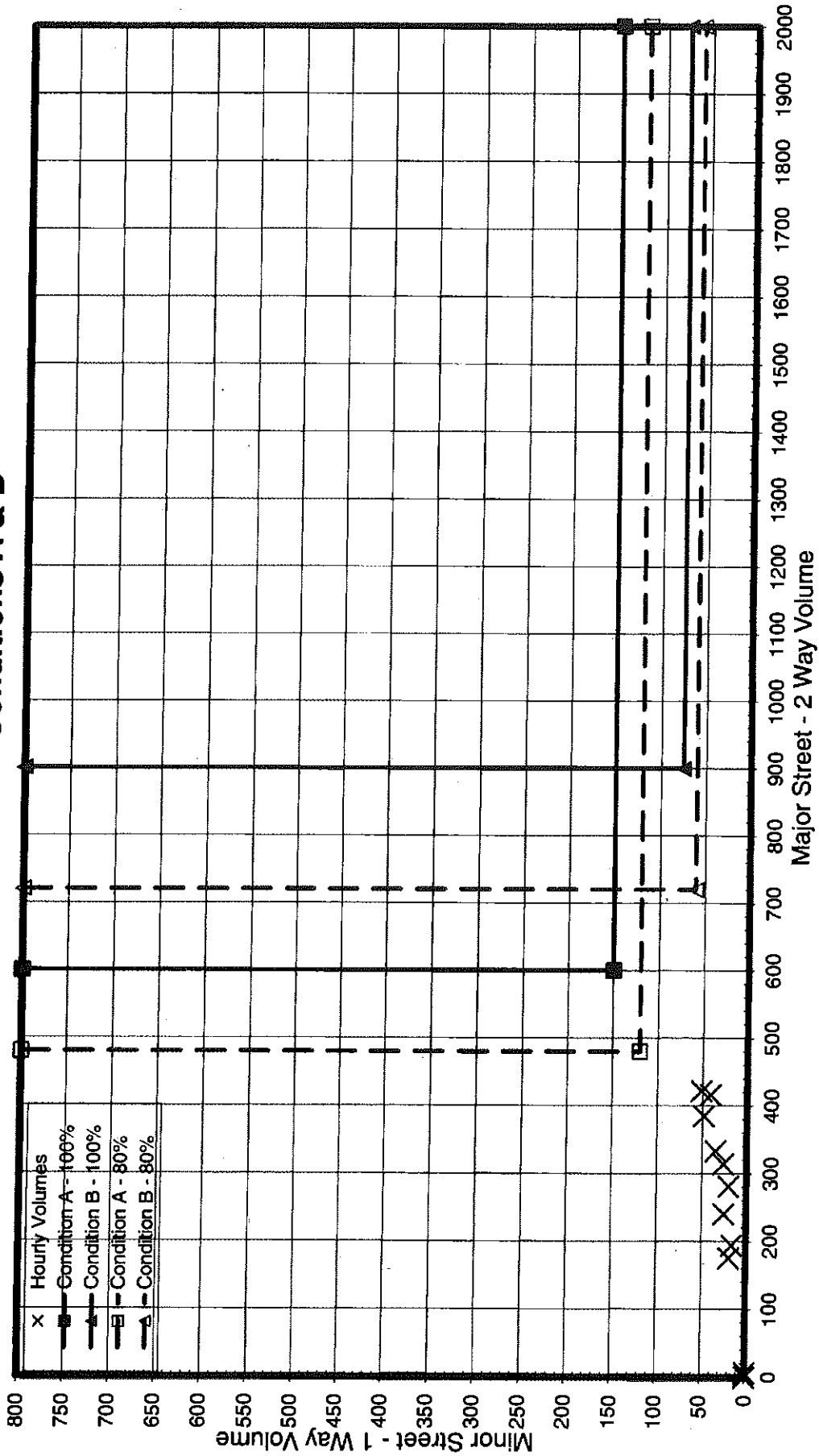
WARRANT #7 (CRASH EXPERIENCE)
 Adequate that of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
Warrant Satisfied? _____ NO

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3	
	MAJOR ST. MINOR ST.		100%		80%		100%		FOUR HOUR		PEAK HOUR	
	1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR
NORM	1	X	500	150	400	120	750	75	600	60		
	2+	X	600	200	480	160	900	100	720	80		
70%	1		350	105	280	84	525	53	420	42		
	2+		420	140	336	112	630	70	504	56		
MID-1AM		0										
1AM-2AM		0										
2AM-3AM		0										
3AM-4AM		0										
4AM-5AM		0										
5AM-6AM		0										
6AM-7AM		0										
7AM-8AM		175	18									
8AM-9AM		240	17	25								
9AM-10AM		194	11	16								
10AM-11AM		6	0	0								
11AM-NOON		281	20	19								
NOON-1PM		314	21	26								
1PM-2PM		333	27	35								
2PM-3PM		0	0	0								
3PM-4PM		385	32	48								
4PM-5PM		416	39	41								
5PM-6PM		422	42	51								
6PM-7PM		0	0	0								
7PM-8PM		0	0	0								
8PM-9PM		0	0	0								
9PM-10PM		0	0	0								
10PM-11PM		0	0	0								
11PM-MID		0	0	0								
HOURS MET			0	0	0	0	0	0	0	0	0	0
WARRANT SATISFIED?			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

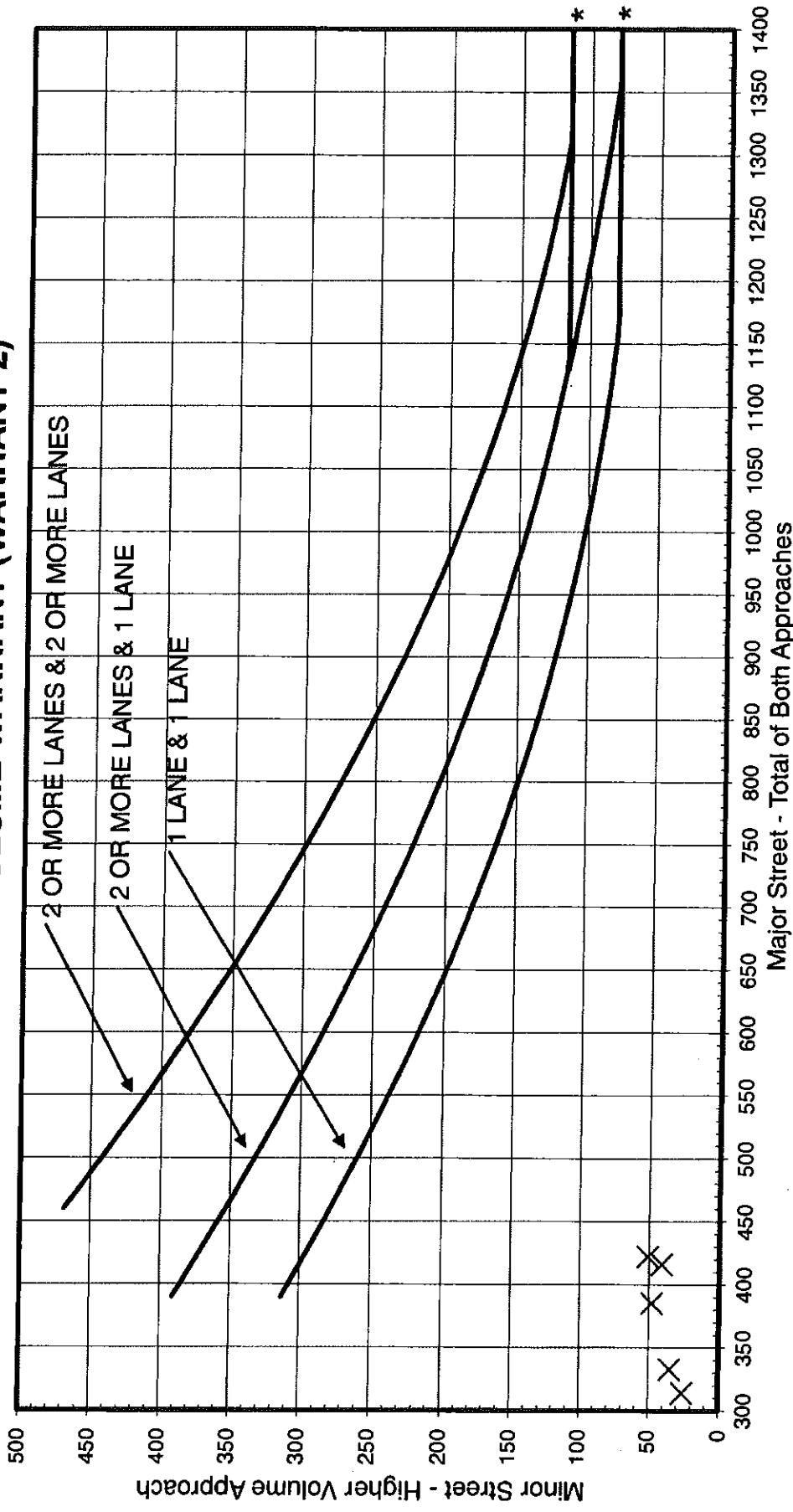


Major Road =	Hayden Ave	Lanes	2
Minor Road =	Clalborne Rd and Northfield		1
Road Location =	Urban	Warrant Met?	
Condition A (100%) =	0 Hours Meet	No	
Condition B (100%) =	0 Hours Meet	No	
Condition A (80%) =	0 Hours Meet	No	
Condition B (80%) =	0 Hours Meet	No	

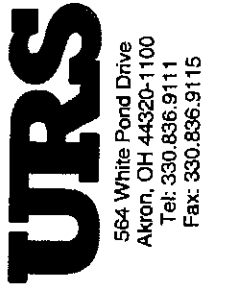
Day of Week	Date & Year	From	To	Weather
Tuesday	June 7, 2011	7:00 AM	10:00 AM	Rain
Tuesday	June 7, 2011	11:00 AM	2:00 PM	Hot
Tuesday	June 7, 2011	3:00 PM	6:00 PM	Hot

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

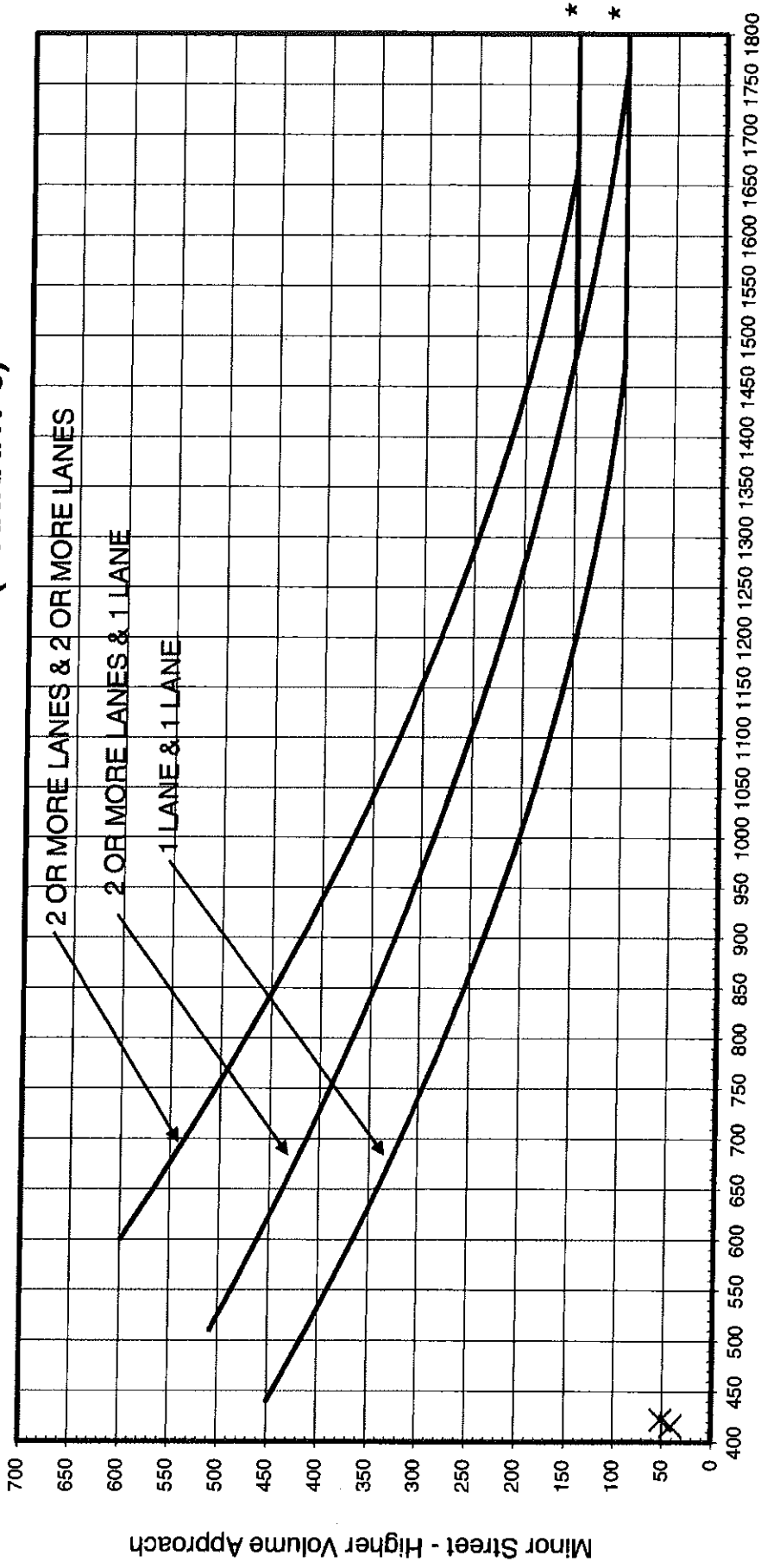


564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	From	To	Weather
Tuesday	June 7, 2011	7:00 AM	10:00 AM	Rain
Tuesday	June 7, 2011	11:00 AM	2:00 PM	Hot
Tuesday	June 7, 2011	3:00 PM	6:00 PM	Hot

Major Road = Lanes
 Minor Road =
 Road Location = Lanes
 Warrant 2 (Urban) = Hours Meet Warrant Met?

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road =
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Tuesday	June 7, 2011	7:00 AM	10:00 AM	Rain
Tuesday	June 7, 2011	11:00 AM	2:00 PM	Hot
Tuesday	June 7, 2011	3:00 PM	6:00 PM	Hot



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data Hayden Ave and Shaw Ave



564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

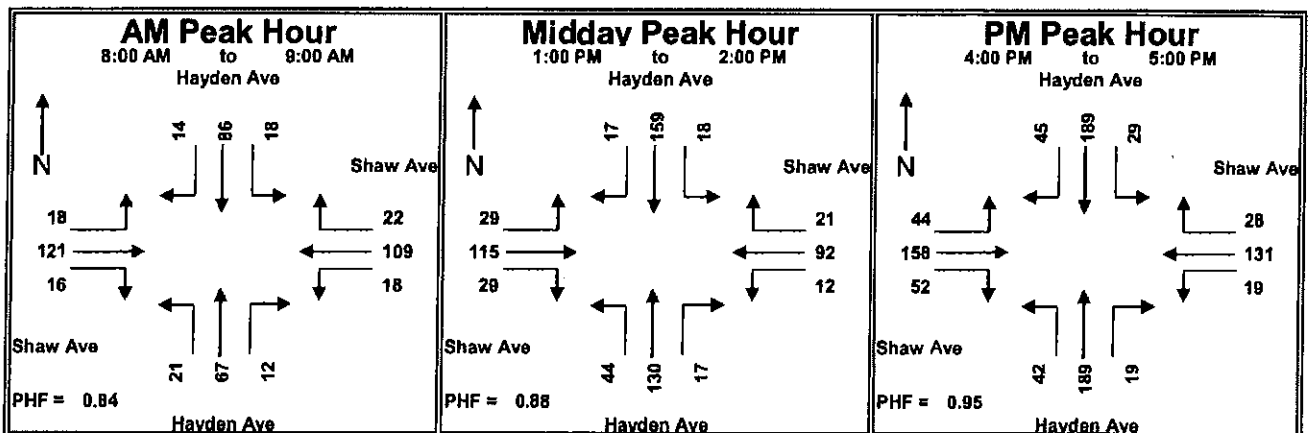
Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 10, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 10, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 10, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71

Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Shaw Ave Eastbound				Shaw Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	268	1105	156	6	187	1129	222	0	3067	249	1064	264	2	130	866	187	4	2760	5827
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	416	1714	242	9	290	1751	344	0	4758	386	1650	410	3	202	1343	290	6	4281	9039



Notes:

Hayden/Shaw
Bus Counts
May 10, 2011

File Name : 2304-05-10-20
Site Code : 00051011
Start Date : 05/10/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
07:00 AM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
07:15 AM	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0
07:30 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
07:45 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	4	0	0	0	1	0	0	0	5	0	0	1	0	0	0	1
08:00 AM	0	7	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1
08:15 AM	0	7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
08:30 AM	1	10	0	0	0	1	1	0	0	1	0	0	0	0	0	0	1
08:45 AM	0	3	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Total	1	27	0	0	0	2	1	0	1	2	0	0	1	1	1	0	3
09:00 AM	0	8	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1
09:15 AM	0	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
09:30 AM	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
09:45 AM	0	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	18	0	0	0	0	0	0	0	3	1	0	1	1	0	0	2
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
11:15 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
11:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	0	4	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
01:00 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
01:15 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
01:45 PM	0	1	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0
Total	0	3	0	0	0	0	0	0	2	10	0	0	0	0	0	0	1
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
03:15 PM	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
03:45 PM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
Total	0	4	0	0	0	0	0	0	0	12	0	0	0	0	0	0	1
04:00 PM	0	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
04:15 PM	0	2	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
04:30 PM	0	2	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
Total	0	5	0	0	0	1	0	0	0	13	0	0	0	0	1	0	2

Hayden/Shaw
 Bus Counts
 May 10, 2011

File Name : 2304-05-10-20
 Site Code : 00051011
 Start Date : 05/10/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot.	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
05:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
05:30 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
05:45 PM	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
Total	0	9	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1
Grand Total	1	77	0	0	0	4	1	0	4	54	1	0	3	2	2	0		14
Apprch %	1.3	98.7	0.0	0.0	0.0	80.0	20.0	0.0	6.8	91.5	1.7	0.0	42.9	28.6	28.6	0.0		
Total %	0.7	51.7	0.0	0.0	0.0	2.7	0.7	0.0	2.7	36.2	0.7	0.0	2.0	1.3	1.3	0.0		

15-Minute Count Data Hayden Ped and Shaw Ped



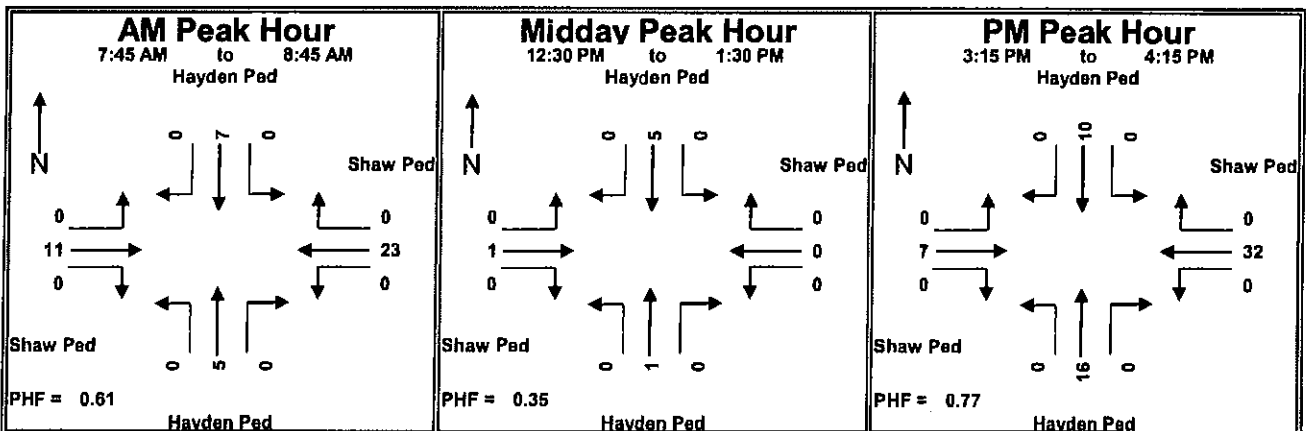
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 10, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 10, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 10, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ped Northbound				Hayden Ped Southbound				Total North South	Shaw Ped Eastbound				Shaw Ped Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	36	0	0	0	42	0	0	78	0	34	0	0	0	69	0	0	103	181
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	56	0	0	0	65	0	0	121	0	53	0	0	0	107	0	0	160	281



Notes:

SIGNAL WARRANT



INTERSECTION: Hayden Ave and Shaw Ave
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N:1 S:1 E:1 W:1
 PRESENTLY SIGNALIZED? Yes
 MAINTAINING AGENCY: DOES 70% WARRANT APPLY? NO

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____

SECTION: _____
 CKD BY: _____

OTHER (DESCRIBE):
 ADDITIONAL ITEMS ATTACHED
 SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level..... NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians.....
 Hours with 150 or more pedestrians.....
 Pedestrian crossing time (t).....
 Number of gaps greater than (t) during period.....
 Warrant Satisfied?.....

WARRANT #5 (SCHOOL CROSSING)
 On approved school routes?..... YES
 Gap analysis made during period from..... 7:45 AM to 8:45 AM
 Number of vehicles during analysis period..... 296
 Pedestrian crossing time (t)..... 16 sec
 Number of gaps greater than (t) during period..... 32
 Approximate vehicular speed..... 20-25 mph
 Number of children crossing during period..... 34
 Warrant Satisfied?..... YES

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is..... TWO-WAY
 Distance to nearest signal in each direction on major street.....
 Time space diagram (attached) shows that this location can be implemented into a system.....
 Warrant Satisfied?..... NO

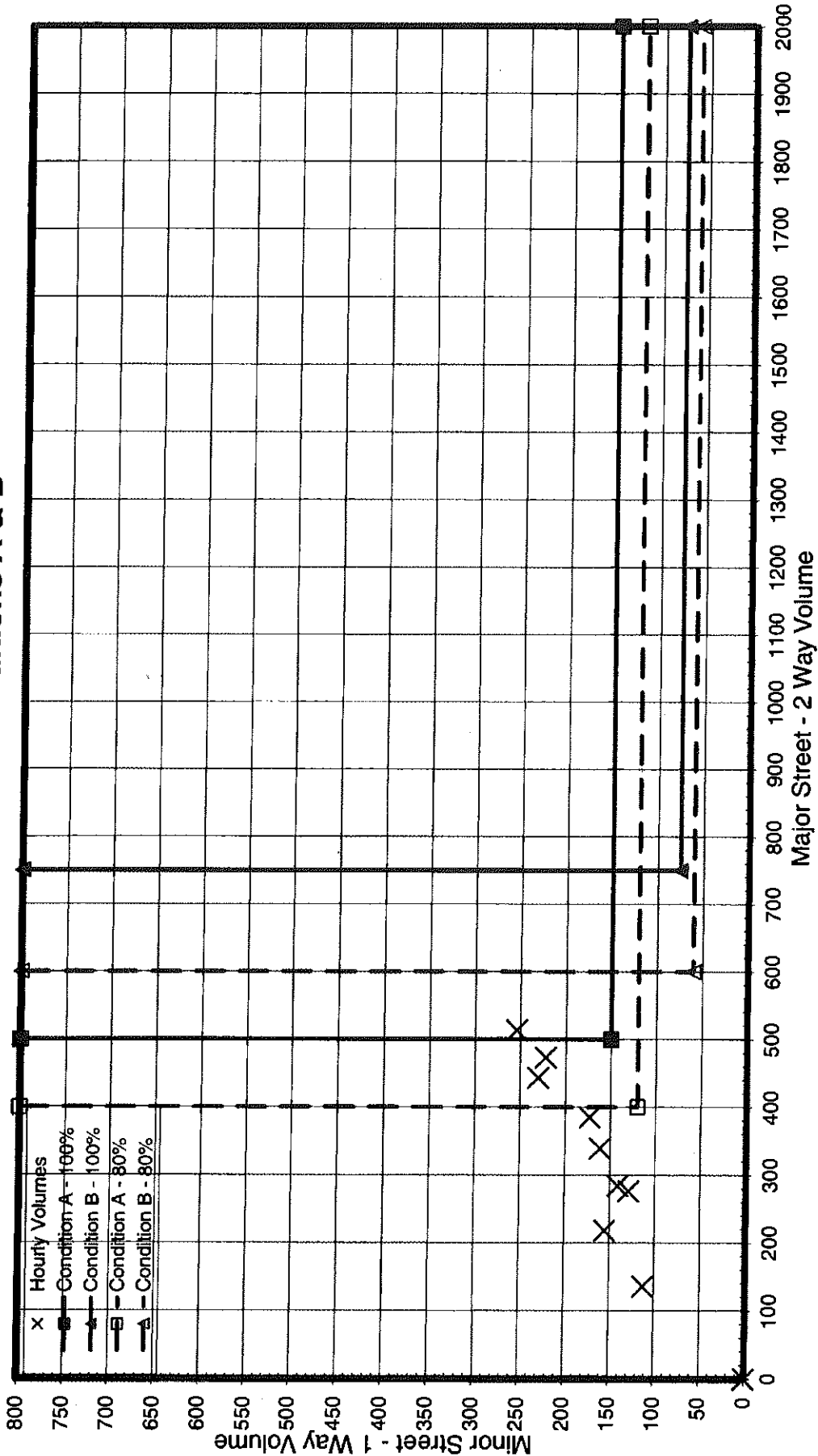
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures.....
 Number of accidents per year of a type which could be prevented by signalization.....
 80% of warrant #1 or #2 satisfied.....
 Will signalization disrupt progressive movement?.....
 Warrant Satisfied?..... NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes.....
 At least 1000 V.P.H. during weekday peak hour.....
 5-Year projection meets Warrant 1, 2, or 3.....
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday.....
 Meets characteristic requirements?.....
 Warrant Satisfied?..... NO

COND. NO. OF MAJOR ST LINES	ADJUSTED HOURLY VOLUMES						WARRANT #1						WARRANT #2		WARRANT #3	
	1-WAY		2-WAY		1-WAY		100%		80%		100%		80%		FOUR HOUR	PEAK HOUR
	MAJOR ST	MINOR ST	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR		
NORM 1	X	X	400	150	400	120	750	75	600	60						
NORM 2+			200	200	480	160	900	100	720	80						
70% 1			350	105	280	84	525	53	420	42						
70% 2+			420	140	336	112	530	70	504	56						
MID-1AM	0	0														
1AM-2AM	0	0														
2AM-3AM	0	0														
3AM-4AM	0	0														
4AM-5AM	0	0														
5AM-6AM	0	0														
6AM-7AM	0	0														
7AM-8AM	136	112	74						X	X						
8AM-9AM	218	155	149		X				X	X						
9AM-10AM	276	129	103			X			X	X						
10AM-11AM	0	0	0													
11AM-NOON	284	141	119			X			X	X						
NOON-1PM	339	161	97			X			X	X						
1PM-2PM	385	173	125		X				X	X						
2PM-3PM	0	0	0													
3PM-4PM	443	230	186			X			X	X						
4PM-5PM	513	254	178		X				X	X						
5PM-6PM	473	222	152		X				X	X						
6PM-7PM	0	0	0													
7PM-8PM	0	0	0													
8PM-9PM	0	0	0													
9PM-10PM	0	0	0													
10PM-11PM	0	0	0													
11PM-MID	0	0	0													
HOURS MET																
WARRANT SATISFIED?																
1 NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO																
3 NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO																
0 NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO																

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B



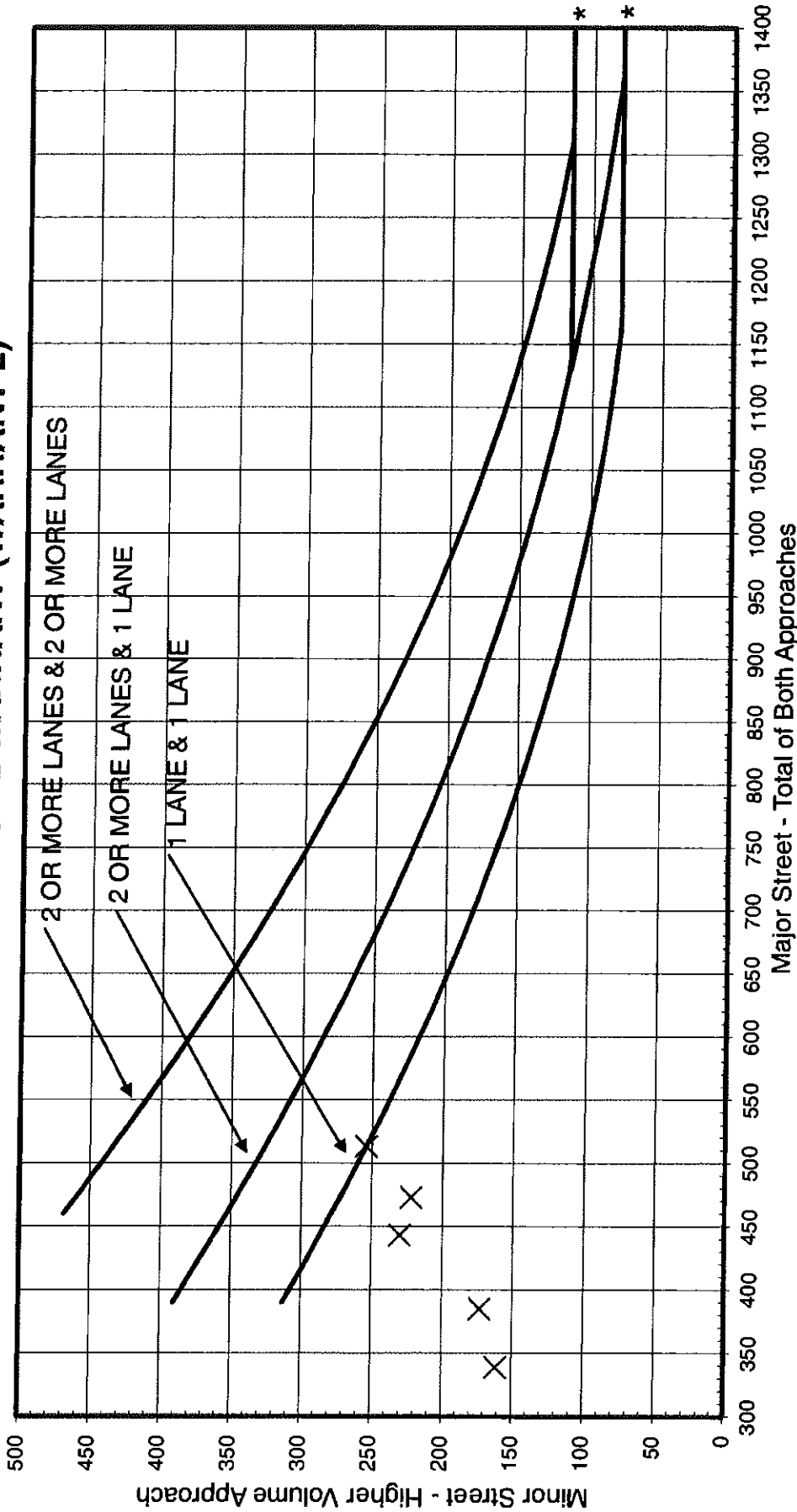
Major Road =	Hayden Ave	Lanes	1
Minor Road =	Shaw Ave	Lanes	1
Road Location =	Urban	Warrant Met?	
Condition A (100%) =	1 Hours Meet	No	
Condition B (100%) =	0 Hours Meet	No	
Condition A (80%) =	3 Hours Meet	No	
Condition B (80%) =	0 Hours Meet	No	

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 10, 2011	7:00 AM	10:00 AM	
Tuesday	May 10, 2011	11:00 AM	2:00 PM	
Tuesday	May 10, 2011	3:00 PM	6:00 PM	

URS

564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



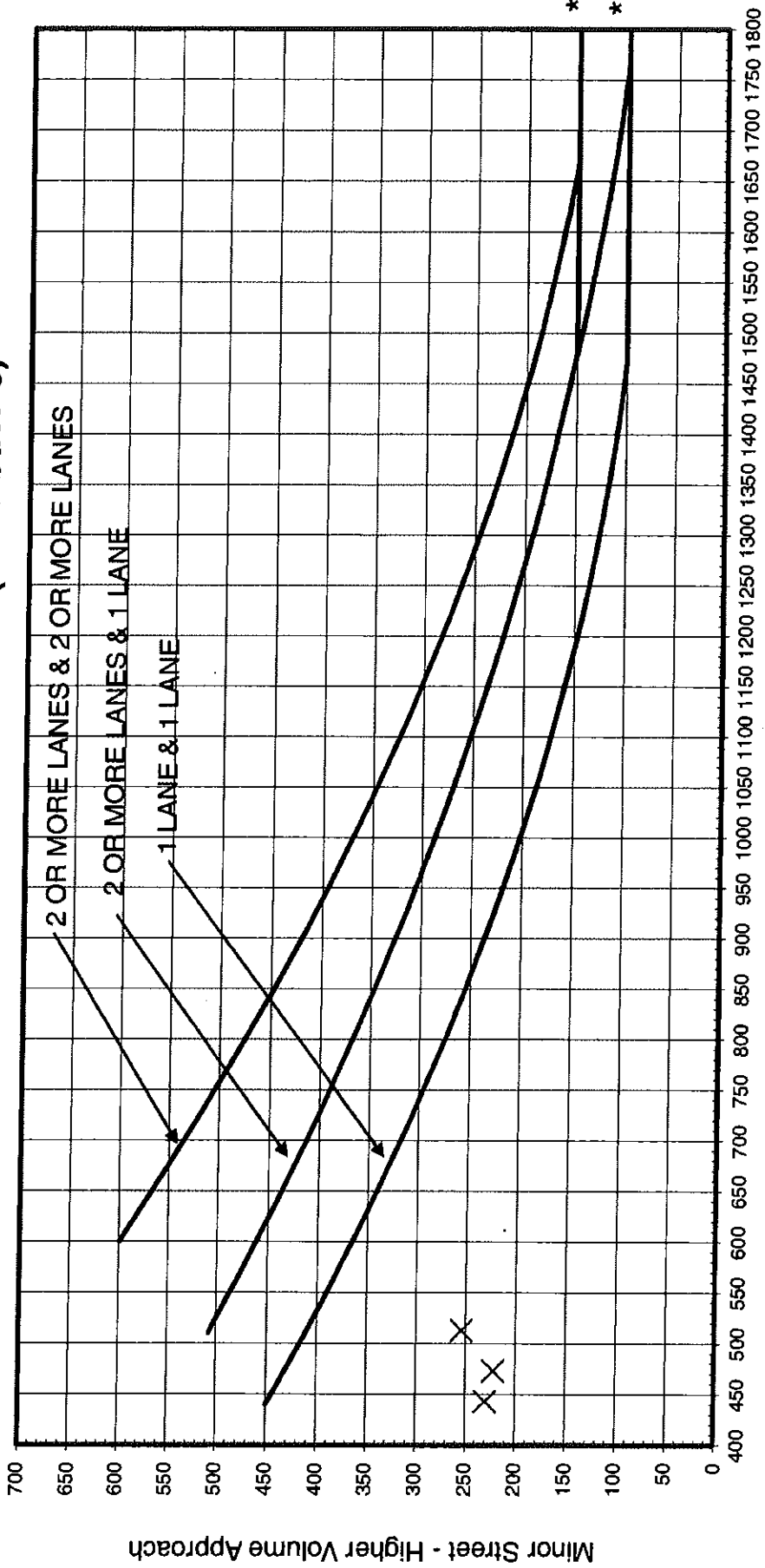
* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Hayden Ave	Lanes	1
Minor Road =	Shaw Ave	Lanes	1
Road Location =	Urban		
Warrant 2 (Urban) =	0 Hours Meet	Warrant Met?	NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 10, 2011	7:00 AM	10:00 AM	
Tuesday	May 10, 2011	11:00 AM	2:00 PM	
Tuesday	May 10, 2011	3:00 PM	6:00 PM	

564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Hayden Ave	Lanes	1
Minor Road =	Shaw Ave		1
Road Location =	Urban		

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Tuesday	May 10, 2011	7:00 AM	10:00 AM	
Tuesday	May 10, 2011	11:00 AM	2:00 PM	
Tuesday	May 10, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

15-Minute Count Data

Hayden Ave and 6th Ave and Mayfair Ave



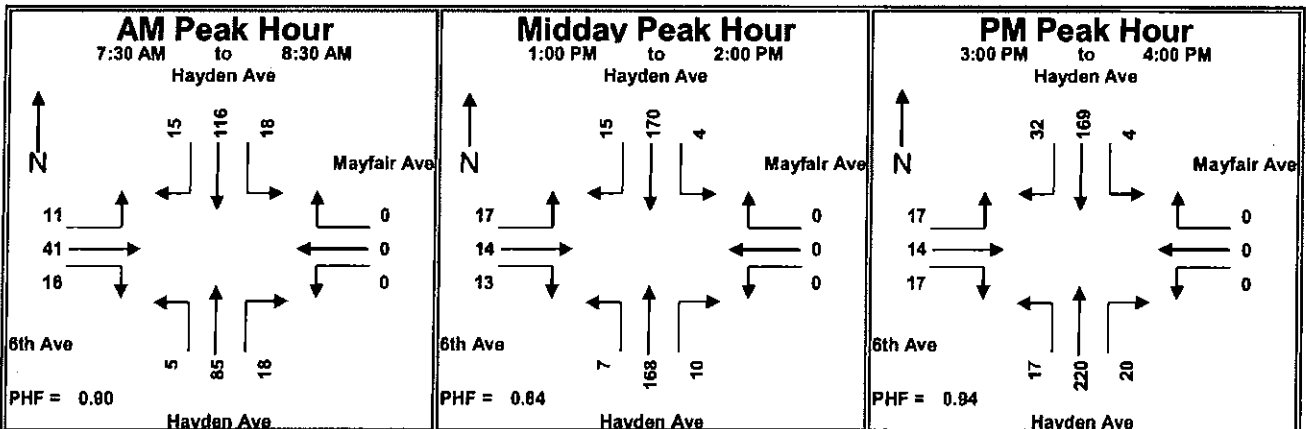
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 11, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 11, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	6th Ave Eastbound				Mayfair Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	94	1259	93	2	43	1235	166	5	2890	152	153	137	0	0	0	0	0	442	3332
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	144	1929	143	3	66	1893	254	8	4429	233	234	210	0	0	0	0	0	677	5106



Notes:

Hayden/Sixth/Mayfair
Bus Counts
May 11, 2011

File Name : 2304-05-11-20
Site Code : 00051111
Start Date : 05/11/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
07:15 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
07:30 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	1	0	0	
07:45 AM	0	1	1	0	0	0	0	0	1	4	0	0	0	1	0	0	
Total	0	4	1	0	0	0	0	0	1	10	0	0	0	2	0	0	1
08:00 AM	0	8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:15 AM	0	5	1	0	0	0	0	0	0	2	0	0	0	0	0	0	
08:30 AM	0	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
08:45 AM	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	29	2	0	0	0	0	0	0	4	0	0	0	0	0	0	3
09:00 AM	0	5	0	0	0	0	0	0	1	1	0	0	0	0	0	0	
09:15 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
09:30 AM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
09:45 AM	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	13	1	0	0	0	0	0	1	3	0	0	0	0	0	0	1
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:30 AM	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:45 AM	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	2	2	0	0	0	0	0	0	3	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:15 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	6	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
01:00 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	
01:45 PM	0	1	0	0	0	0	0	0	0	9	0	0	0	0	0	0	1
Total	0	2	0	0	0	0	0	0	0	17	0	0	0	0	0	0	1
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	
03:15 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
03:30 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
03:45 PM	1	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
Total	1	5	1	0	0	0	0	0	0	6	0	0	0	1	0	0	1
04:00 PM	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
04:15 PM	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
04:30 PM	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Total	0	5	0	0	0	0	0	0	0	11	0	0	0	0	0	0	1

Hayden/Sixth/Mayfair
Bus Counts
May 11, 2011

File Name : 2304-05-11-2C
Site Code : 00051111
Start Date : 05/11/2011
Page No : 2

Groups Printed: Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
05:15 PM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
05:30 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
05:45 PM	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	14	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
Grand Total	1	80	7	0	0	0	0	0	2	61	0	0	0	3	0	0	
Apprch %	1.1	90.9	8.0	0.0	0.0	0.0	0.0	0.0	3.2	96.8	0.0	0.0	0.0	100.0	0.0	0.0	
Total %	0.6	51.9	4.5	0.0	0.0	0.0	0.0	0.0	1.3	39.6	0.0	0.0	0.0	1.9	0.0	0.0	

15-Minute Count Data

Hayden Ped and 6th Ave Ped and Mayfair Ped



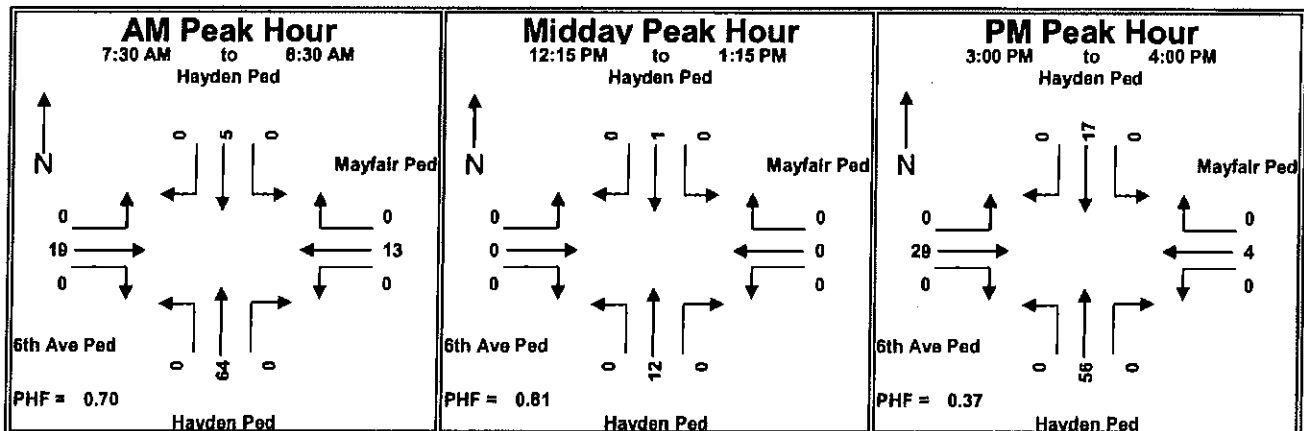
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 11, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 11, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Hayden Ped Northbound				Hayden Ped Southbound				Total North South	6th Ave Ped Eastbound				Mayfair Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	180	0	0	0	59	0	0	239	0	58	0	0	0	21	0	0	79	318
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	276	0	0	0	90	0	0	366	0	89	0	0	0	32	0	0	121	487



Notes:

SIGNAL WARRANT

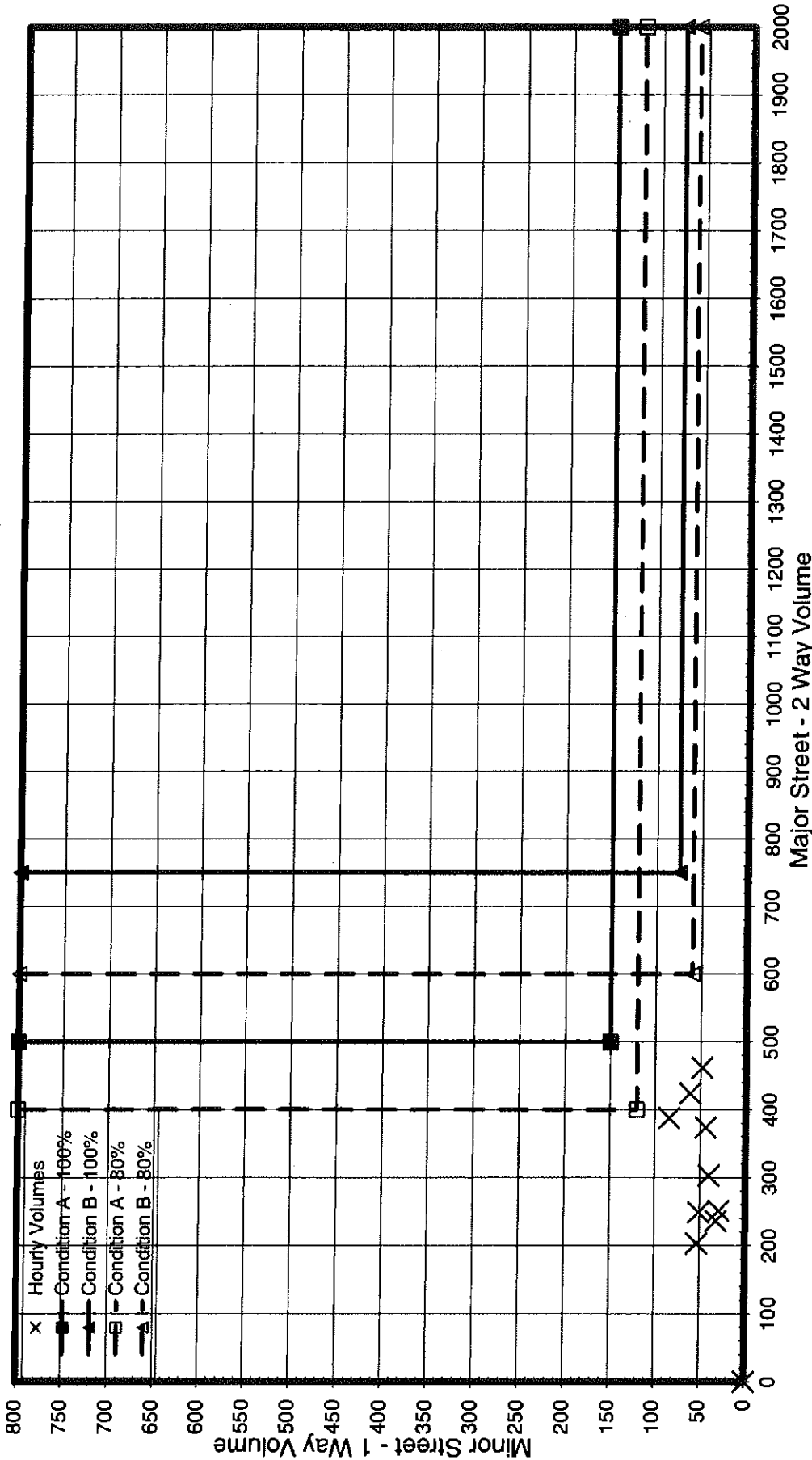
INTERSECTION: Hayden Ave and 6th Ave and Mayfair Ave
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes _____ DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____
 CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION CALC. BY: _____
 URS
 WARRANT #1 (COMBINATION) Conditions A & B are each met at the 80% level: NO
 WARRANT #4 (PEDESTRIAN VOLUME) Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____
 WARRANT #5 (SCHOOL CROSSING) On approved school route? YES
 Gap analysis made during period from: 3:00 PM to 3:30 PM
 Number of vehicles during analysis period: 241
 Pedestrian crossing time (t): 18 sec
 Number of gaps greater than (t) during period: 16
 Approximate vehicular speed: 20-25 mph
 Number of children crossing during period: 33
 Warrant Satisfied? YES
 WARRANT #6 (COORDINATED SIGNAL SYSTEM) Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? NO
 WARRANT #7 (CRASH EXPERIENCE) Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? NO
 WARRANT #8 (ROADWAY NETWORK) Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? NO

OTHER (DESCRIBE):
 ADDITIONAL ITEMS ATTACHED
 SPEED DATA
 DELAY ANALYSIS
 TIMESPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

COND. / NO. OF LANES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3			
	MAJOR ST		MINOR ST		100%		80%		FOUR HOUR		PEAK HOUR			
	1-WAY	2-WAY	1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR		
NORM	1	2+	0	0	500	150	400	120	750	75	600	60		
70%	1	2+	0	0	600	200	480	160	900	100	720	80		
	1	2+	0	0	350	105	280	84	525	53	420	42		
	2+	2+	0	0	420	140	336	112	630	70	504	56		
MID-1AM	0	0	0	0										
1AM-2AM	0	0	0	0										
2AM-3AM	0	0	0	0										
3AM-4AM	0	0	0	0										
4AM-5AM	0	0	0	0										
5AM-6AM	0	0	0	0										
6AM-7AM	0	0	0	0										
7AM-8AM	203	53	0	0										
8AM-9AM	249	51	0	0										
9AM-10AM	236	32	0	0										
10AM-11AM	0	0	0	0										
11AM-NOON	251	29	0	0										
NOON-1PM	303	40	0	0										
1PM-2PM	374	44	0	0										
2PM-3PM	0	0	0	0										
3PM-4PM	462	48	0	0			X							
4PM-5PM	424	61	0	0			X							
5PM-6PM	388	84	0	0				X						
6PM-7PM	0	0	0	0										
7PM-8PM	0	0	0	0										
8PM-9PM	0	0	0	0										
9PM-10PM	0	0	0	0										
10PM-11PM	0	0	0	0										
11PM-MID	0	0	0	0										
HOURS MET			0	0	0	0	0	0	0	0	0	0	0	0
WARRANT SATISFIED?			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

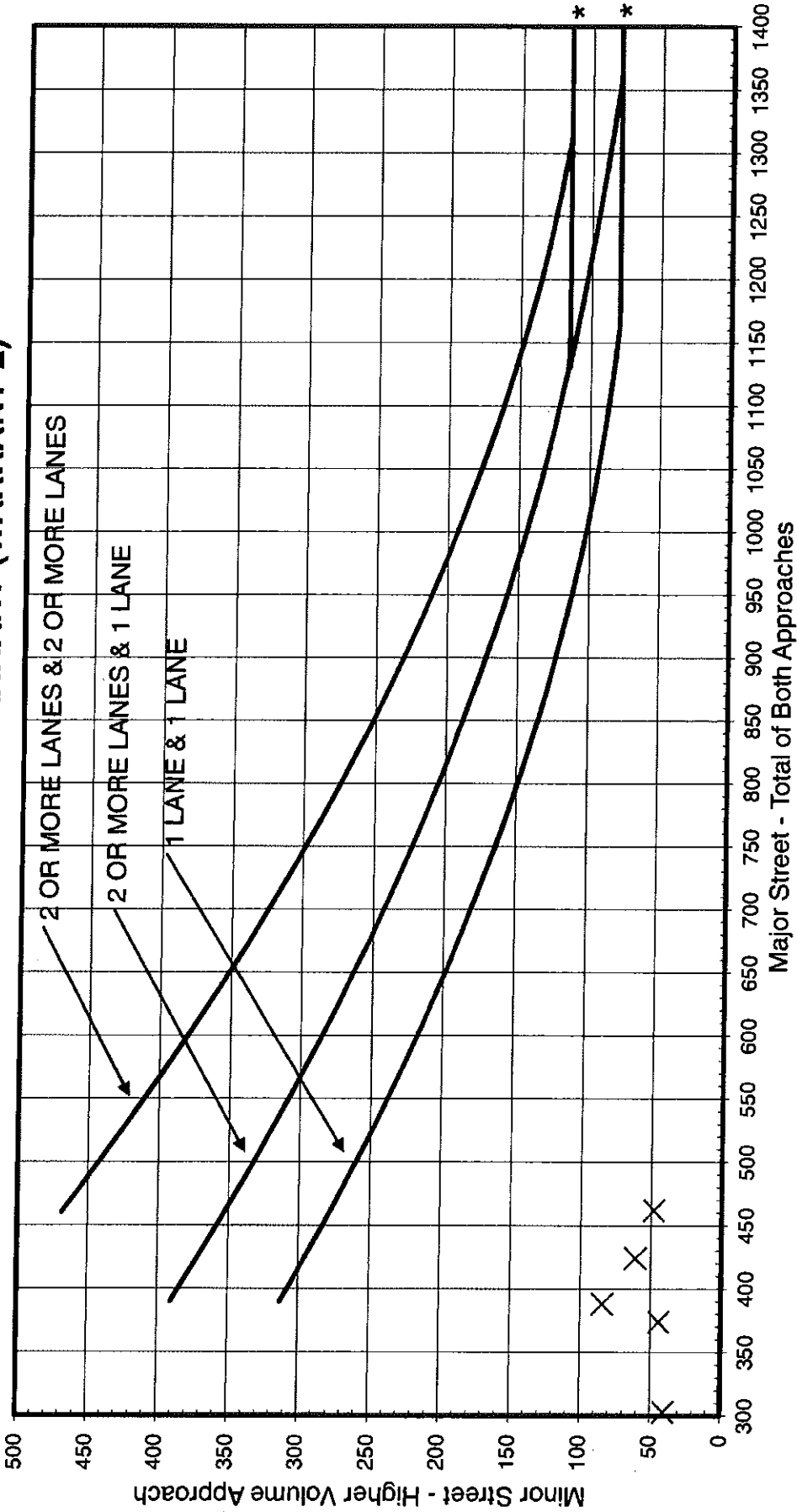
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	From	To	Weather
Wednesday	May 11, 2011	7:00 AM	10:00 AM	
Wednesday	May 11, 2011	11:00 AM	2:00 PM	
Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Major Road =	Hayden Ave	Lanes	1
Minor Road =	6th Ave and Mayfair Ave		1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Meet	No	
Condition B (100%) =	0 Hours Meet	No	
Condition A (80%) =	0 Hours Meet	No	
Condition B (80%) =	0 Hours Meet	No	

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Day of Week	Date & Year	From	To	Weather
Wednesday	May 11, 2011	7:00 AM	10:00 AM	
Wednesday	May 11, 2011	11:00 AM	2:00 PM	
Wednesday	May 11, 2011	3:00 PM	6:00 PM	

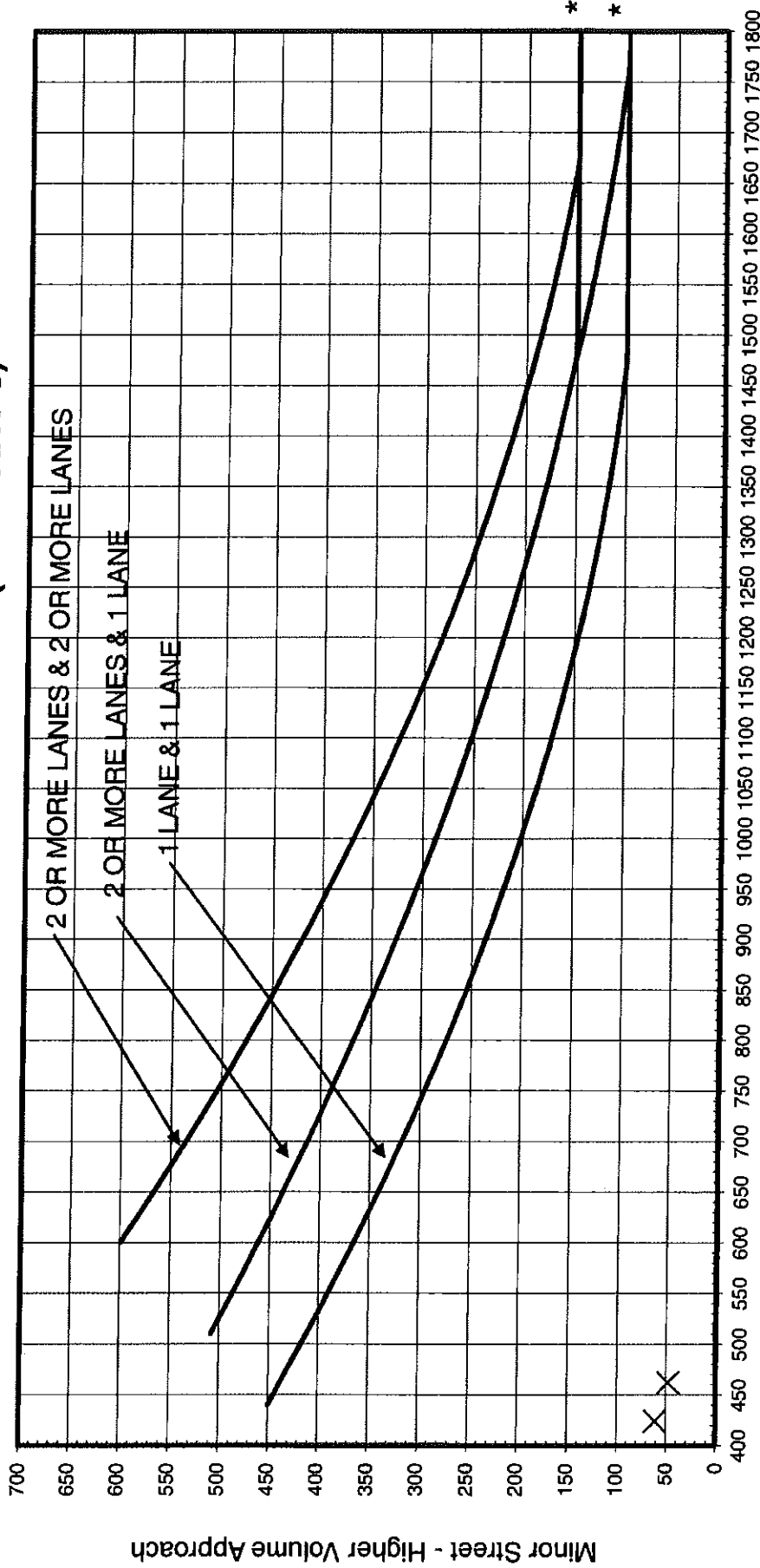
Major Road = Lanes

Minor Road = Lanes

Road Location =

Warrant 2 (Urban) = Hours Meet Warrant Met?

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Hayden Ave	Lanes	1
Minor Road =	6th Ave and Mayfair Ave		1
Road Location =	Urban		

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	May 11, 2011	7:00 AM	10:00 AM	
Wednesday	May 11, 2011	11:00 AM	2:00 PM	
Wednesday	May 11, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

15-Minute Count Data

Hayden Ave and Parking Lot and Strathmore Ave E. Cleveland, Ohio

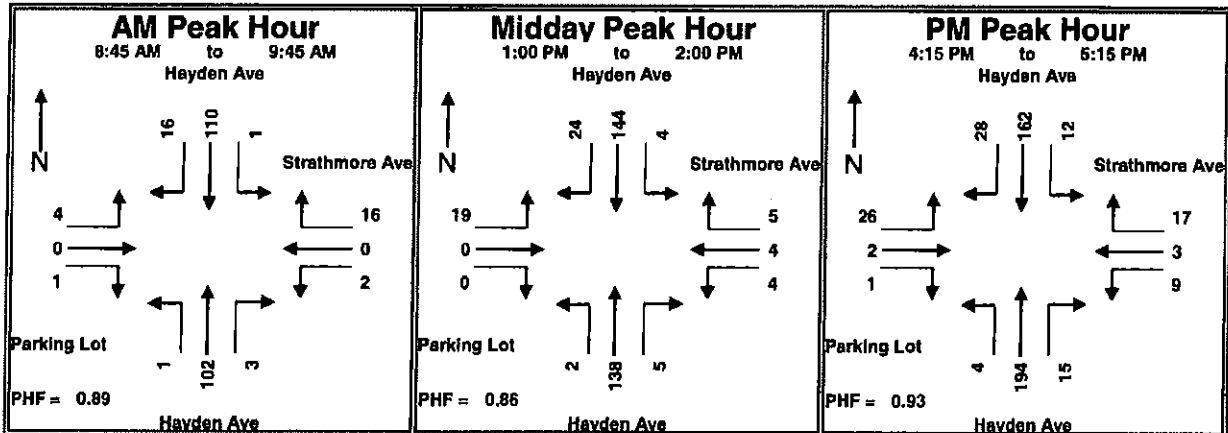


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.916	Wednesday	June 22, 2011	7:00 AM	10:00 AM	Warm
0.916	Wednesday	June 22, 2011	11:00 AM	2:00 PM	Sunny
0.916	Wednesday	June 22, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North	Parking Lot Eastbound				Strathmore Ave Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	18	1177	65	4	49	1156	136	6	2591	107	13	10	0	44	22	98	0	294	2885
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	28	1834	86	6	76	1801	212	9	4036	167	20	16	0	69	34	153	0	458	4484



Notes:

Hayden/Strathmore
Bus Counts
June 22, 2011

File Name : 2304-06-22-
Site Code : 00062211
Start Date : 06/22/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
07:15 AM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
07:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
07:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	4	0	0	0	0	0	0	0	6	0	0	0	0	0	0	1
08:00 AM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:15 AM	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:30 AM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:45 AM	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	16	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1
09:00 AM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
09:15 AM	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
09:30 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
09:45 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	9	0	0	0	0	0	0	0	4	0	0	0	0	0	0	1
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:00 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:30 PM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	1	0	0	0	0	1	0	0	3	0	0	0	0	0	0	
Total	0	4	0	0	0	0	1	0	0	5	0	0	0	0	0	0	1
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
01:45 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Total	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
03:15 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
03:30 PM	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
03:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	3	0	0	0	0	0	0	0	6	0	0	0	1	0	0	1
04:00 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
04:30 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
04:45 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	3	0	0	0	0	0	0	0	6	0	0	0	0	0	0	

Hayden/Strathmore
Bus Counts
June 22, 2011

File Name : 2304-06-22-
Site Code : 00062211
Start Date : 06/22/2011
Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot.
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05:15 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
05:30 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05:45 PM	0	5	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total	0	11	0	0	0	0	0	0	0	6	0	0	0	0	0	0	1
Grand Total	0	55	0	0	0	0	1	0	0	41	0	0	0	1	0	0	9
Approch %	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	
Total %	0.0	56.1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	41.8	0.0	0.0	0.0	1.0	0.0	0.0	

SIGNAL WARRANT



INTERSECTION: Hayden Ave and Parking Lot and Strathmore Ave
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 2 S: 2 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes
 MAINTAINING AGENCY: _____ DOES 70% WARRANT APPLY? NO

CO: Cuyahoga
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SEC: _____
 RTE: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED
 SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

OTHER (DESCRIBE): _____

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT	
	MINOR ST		100%		80%		100%		100%		80%		100%		#2	#3
	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	FOUR HOUR	PEAK HOUR
1	X	X	500	150	400	120	750	75	600	60						
2+			600	200	480	180	900	100	720	80						
70%			350	105	280	84	525	53	420	42						
			420	140	336	112	630	70	504	56						
MID-1AM	0	0														
1AM-2AM	0	0														
2AM-3AM	0	0														
3AM-4AM	0	0														
4AM-5AM	0	0														
5AM-6AM	0	0														
6AM-7AM	0	0														
7AM-8AM	141	0														
8AM-9AM	213	5														
9AM-10AM	229	5														
10AM-11AM	0	0														
11AM-NOON	281	18														
NOON-1PM	288	17														
1PM-2PM	317	19														
2PM-3PM	0	0														
3PM-4PM	344	21														
4PM-5PM	383	21														
5PM-6PM	365	24														
6PM-7PM	0	0														
7PM-8PM	0	0														
8PM-9PM	0	0														
9PM-10PM	0	0														
10PM-11PM	0	0														
11PM-MID	0	0														
HOURS MET			0	0	0	0	0	0	0	0	0	0	0	0	0	0
WARRANT SATISFIED?			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____ NO
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

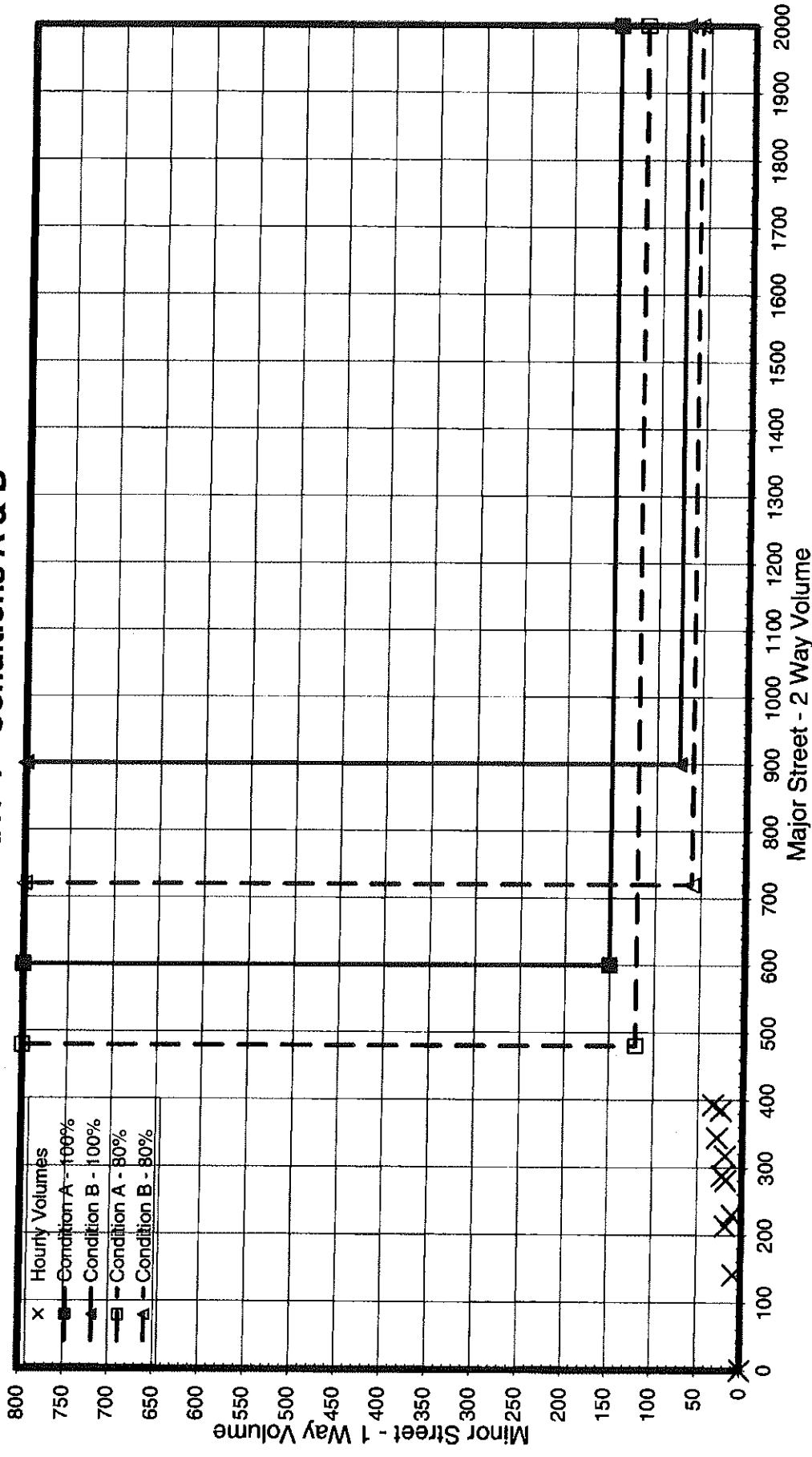
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____ TWO-WAY
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

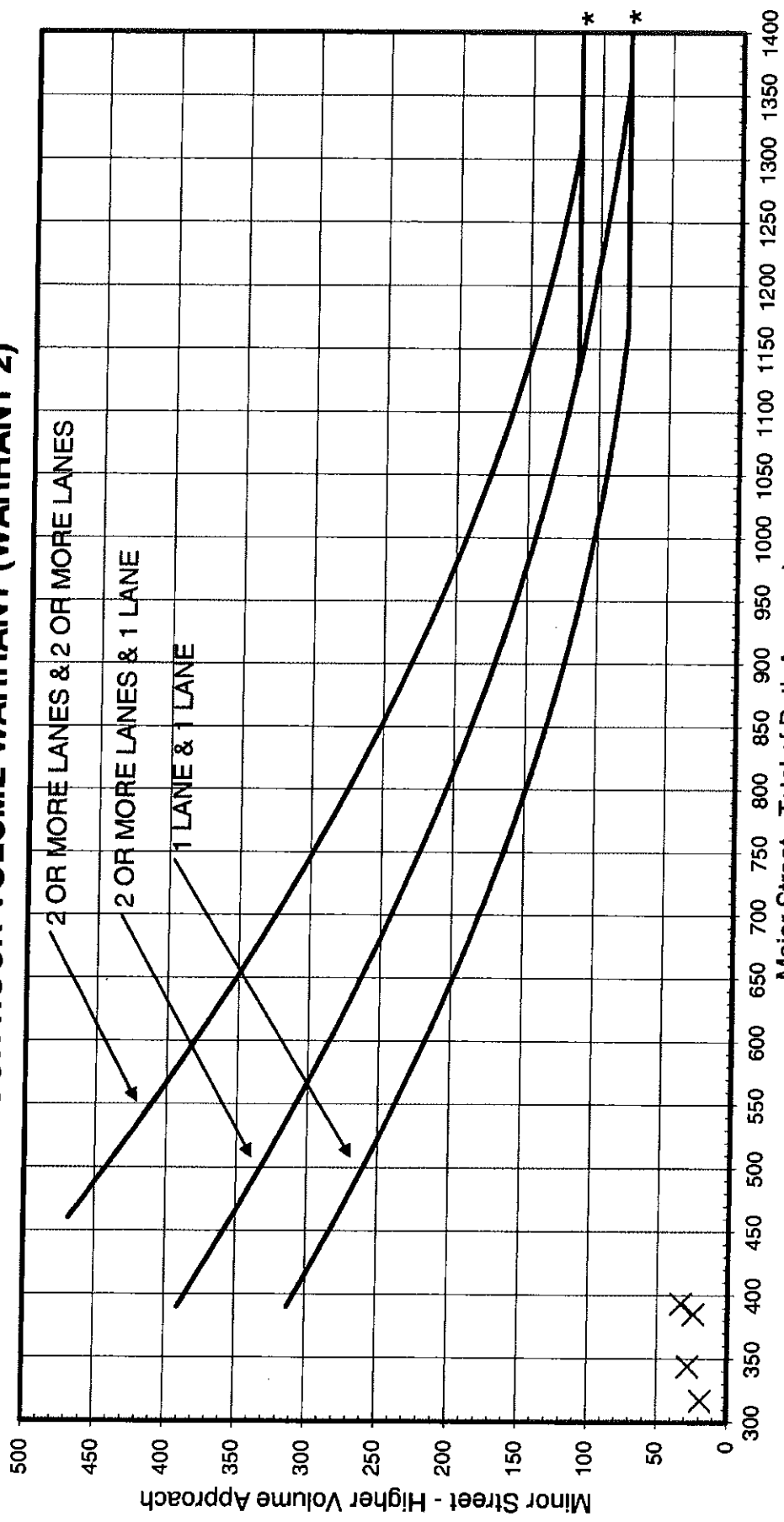


URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 22, 2011	7:00 AM	10:00 AM	Warm
Wednesday	June 22, 2011	11:00 AM	2:00 PM	Sunny
Wednesday	June 22, 2011	3:00 PM	6:00 PM	Sunny

Major Road =	Hayden Ave	Lanes	2
Minor Road =	Parking Lot and Strathmore		1
Road Location =	Urban		
Condition A (100%) =	0 Hours Meet	Warrant Met?	No
Condition B (100%) =	0 Hours Meet		No
Condition A (80%) =	0 Hours Meet		No
Condition B (80%) =	0 Hours Meet		No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



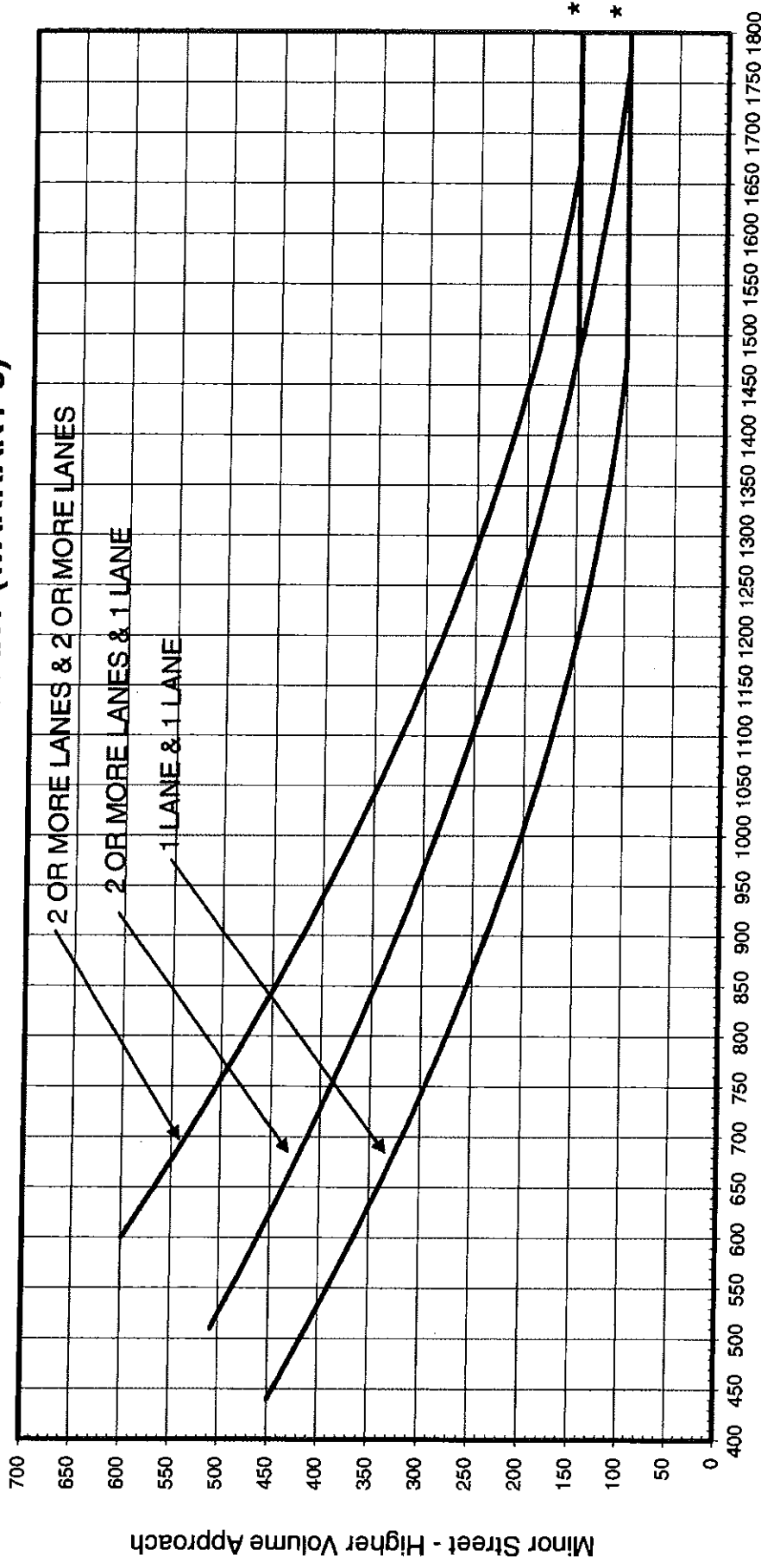
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 22, 2011	7:00 AM	10:00 AM	Warm
Wednesday	June 22, 2011	11:00 AM	2:00 PM	Sunny
Wednesday	June 22, 2011	3:00 PM	6:00 PM	Sunny

Major Road =
 Minor Road =
 Road Location =

Lanes
 Warrant Met?
 Warrant 2 (Urban) = Hours Meet

PEAK HOUR VOLUME WARRANT (WARRANT 3)



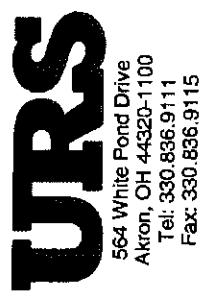
Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Hayden Ave
 Minor Road = Parking Lot and Strathmore
 Road Location = Urban

Warrant 3 (Urban) = 0 Hours Meet Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Wednesday	June 22, 2011	7:00 AM	10:00 AM	Warm
Wednesday	June 22, 2011	11:00 AM	2:00 PM	Sunny
Wednesday	June 22, 2011	3:00 PM	6:00 PM	Sunny



15-Minute Count Data

Lee Blvd and Forest Hills Blvd



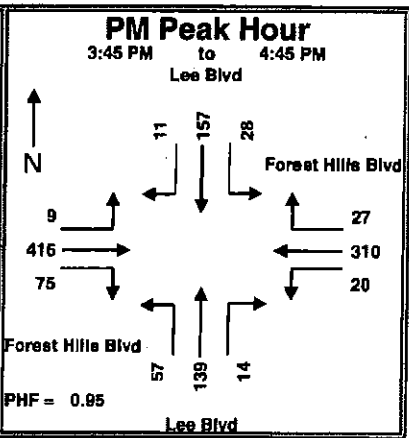
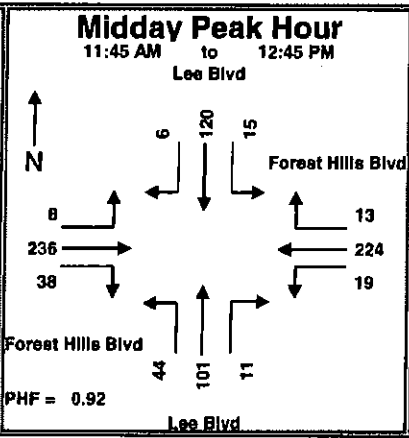
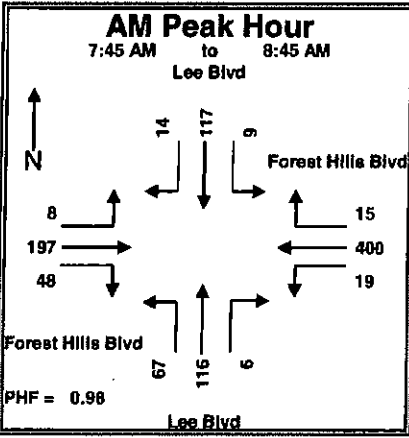
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 24, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 24, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 24, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71

Intersection ID: 1

Start Time	Lee Blvd Northbound				Lee Blvd Southbound				Total North South	Forest Hills Blvd Eastbound				Forest Hills Blvd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	460	978	75	1	141	1108	104	3	2867	63	2359	484	2	142	2332	155	2	5535	8402
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	714	1519	116	2	219	1719	161	5	4447	98	3659	751	3	220	3617	240	3	6586	13033



Notes:

Lee/Forrest Hills Blvd
 Bus Counts
 May 24, 2011

File Name : 2304-5-24-20
 Site Code : 00052411
 Start Date : 05/24/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot.
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
08:15 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	2	0	0	0	1	0	0	0	1	0	0	
09:00 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	
09:30 AM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	0	0	0	0	5	0	0	0	4	0	0	0	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	1	0	0	0	0	0	0	1	2	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
03:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	3	0	0	
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	
03:45 PM	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	
Total	0	1	0	0	0	2	0	0	0	2	0	0	0	8	0	0	1
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15 PM	0	0	0	0	1	2	0	0	0	0	0	0	0	0	1	0	
04:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
04:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	1	0	0	1	2	0	0	0	1	0	0	0	0	1	0	

Lee/Forrest Hills Blvd
 Bus Counts
 May 24, 2011

File Name : 2304-5-24-20
 Site Code : 00052411
 Start Date : 05/24/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot.
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Grand Total	0	3	0	0	1	13	0	0	0	10	0	0	1	12	1	0	4
Apprch %	0.0	100.0	0.0	0.0	7.1	92.9	0.0	0.0	0.0	100.0	0.0	0.0	7.1	85.7	7.1	0.0	
Total %	0.0	7.3	0.0	0.0	2.4	31.7	0.0	0.0	0.0	24.4	0.0	0.0	2.4	29.3	2.4	0.0	

SIGNAL WARRANT



INTERSECTION: Lee Blvd and Forest Hills Blvd
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N:1 S:1 E:1 W:1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY:

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

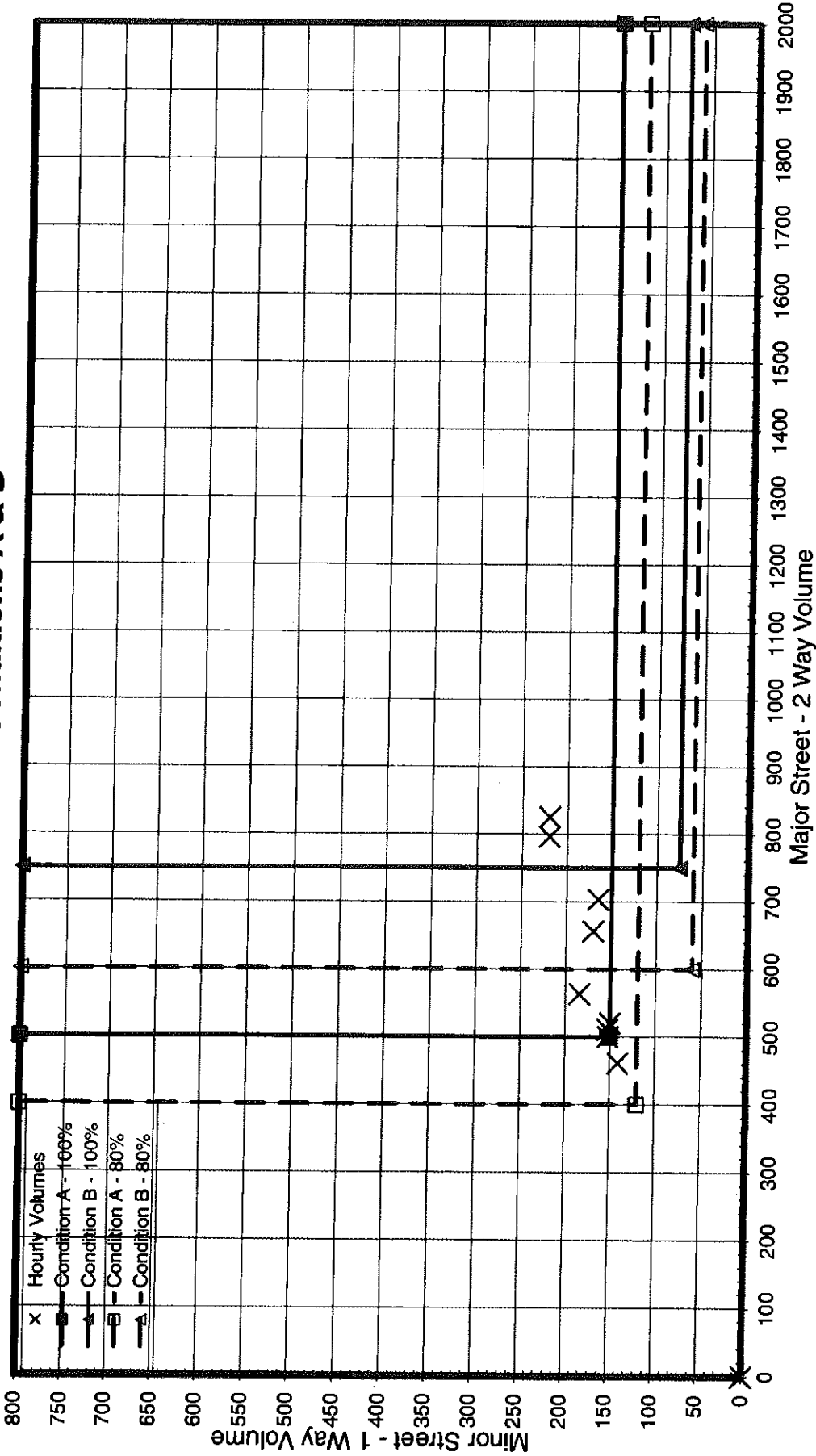
OTHER (DESCRIBE):
 ADDITIONAL ITEMS ATTACHED
 SKETCH OR DRAWING
 VEHICULAR VOLUME COUNT
 TRAFFIC PROJECTION
 ACCIDENT DATA
 PEDESTRIAN COUNT
 GAP ANALYSIS

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians:
 Hours with 150 or more pedestrians:
 Pedestrian crossing time (t):
 Number of gaps greater than (t) during period:
 Warrant Satisfied?
 WARRANT #5 (SCHOOL CROSSING)
 On approved school route?
 Gap analysis made during period from: to
 Number of vehicles during analysis period:
 Pedestrian crossing time (t):
 Number of gaps greater than (t) during period:
 Approximate vehicular speed:
 Number of children crossing during period:
 Warrant Satisfied?
 WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is:
 Distance to nearest signal in each direction on major street:
 Time space diagram (attached) shows that this location can be implemented into a system:
 Warrant Satisfied?
 WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures:
 Number of accidents per year of a type which could be prevented by signalization:
 80% of warrant #1 or #2 satisfied:
 Will signalization disrupt progressive movement?
 Warrant Satisfied?
 WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes:
 At least 1000 V.P.H. during weekday peak hour:
 5-Year projection meets Warrant 1, 2, or 3:
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday:
 Meets Characteristic requirements?
 Warrant Satisfied?

COND. NO. OF LANE	ADJUSTED HOURLY VOLUMES						CONDITION A						CONDITION B						WARRANT #2		WARRANT #3			
	MAJOR ST		MINOR ST		1-WAY		100%		80%		100%		80%		100%		MAJOR		MINOR		FOUR HOUR		PEAK HOUR	
	2-WAY	1-WAY	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	NO	NO	NO	NO
NORM 1	X	X			500	150	400	120	750	75	600	60												
NORM 2+					600	200	480	160	900	100	720	80												
70% 1					350	105	280	84	525	53	420	42												
70% 2+					420	140	336	112	630	70	504	56												
MID-1AM	0	0	0	0																				
1AM-2AM	0	0	0	0																				
2AM-3AM	0	0	0	0																				
3AM-4AM	0	0	0	0																				
4AM-5AM	0	0	0	0																				
5AM-6AM	0	0	0	0																				
6AM-7AM	0	0	0	0																				
7AM-8AM	563	184	100	100	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
8AM-9AM	656	170	144	144	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
9AM-10AM	461	141	108	108	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
10AM-11AM	0	0	0	0																				
11AM-NOON	500	152	121	121	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
NOON-1PM	511	153	134	134	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
1PM-2PM	520	150	146	146	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
2PM-3PM	0	0	0	0																				
3PM-4PM	703	165	160	160	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
4PM-5PM	825	205	220	220	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
5PM-6PM	796	194	220	220	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
6PM-7PM	0	0	0	0																				
7PM-8PM	0	0	0	0																				
8PM-9PM	0	0	0	0																				
9PM-10PM	0	0	0	0																				
10PM-11PM	0	0	0	0																				
11PM-MID	0	0	0	0																				
HOURS MET				8	9	2	4	WARRANT SATISFIED?				YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

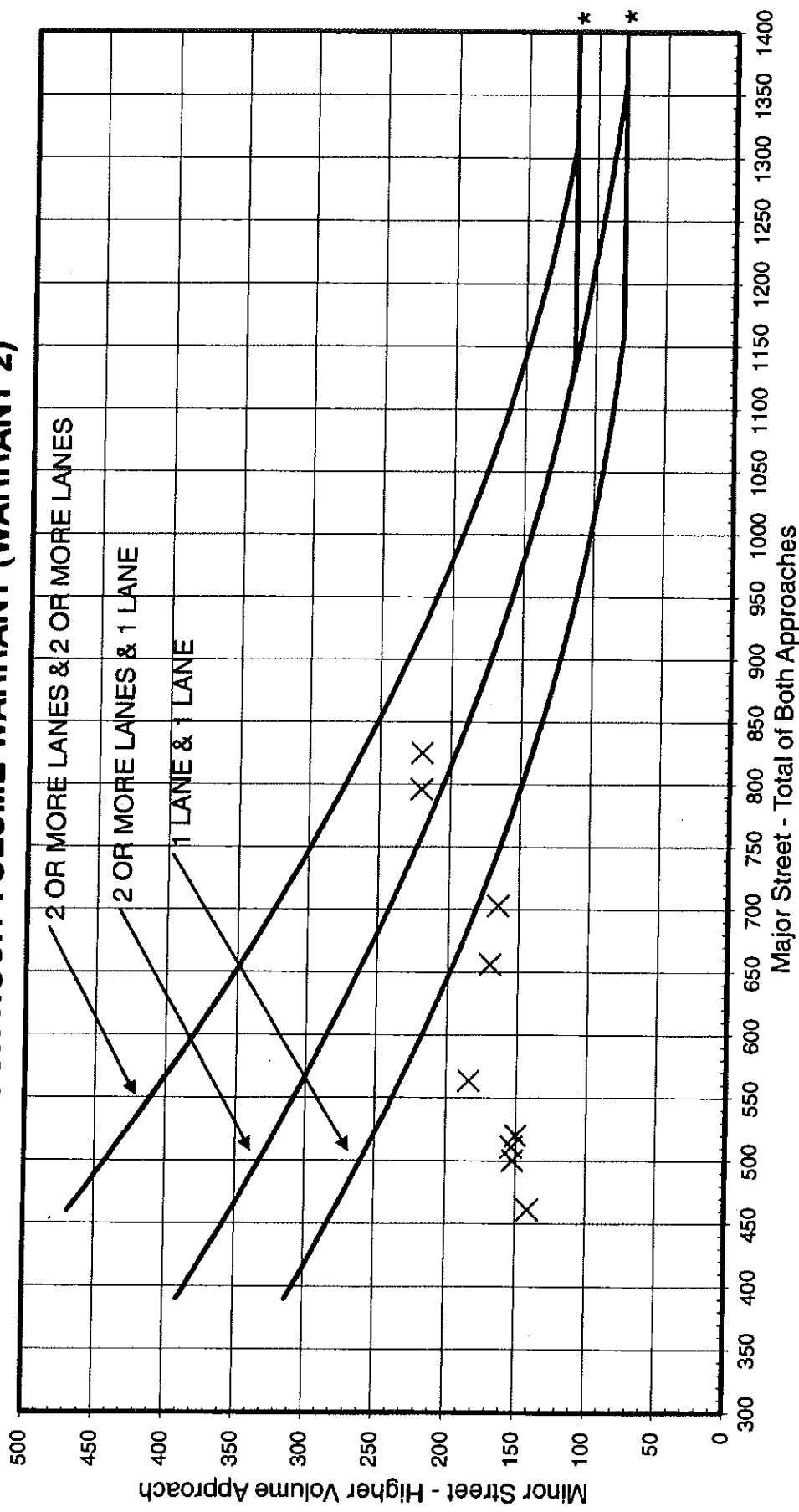


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 24, 2011	7:00 AM	10:00 AM	
Tuesday	May 24, 2011	11:00 AM	2:00 PM	
Tuesday	May 24, 2011	3:00 PM	6:00 PM	

Major Road =	Forest Hills Blvd	Lanes	1
Minor Road =	Lee Blvd	Lanes	1
Road Location =	Urban	Warrant Met?	
Condition A (100%) =	8 Hours Meet	Yes	
Condition B (100%) =	2 Hours Meet	No	
Condition A (80%) =	9 Hours Meet	Yes	
Condition B (80%) =	4 Hours Meet	No	

FOUR HOUR VOLUME WARRANT (WARRANT 2)



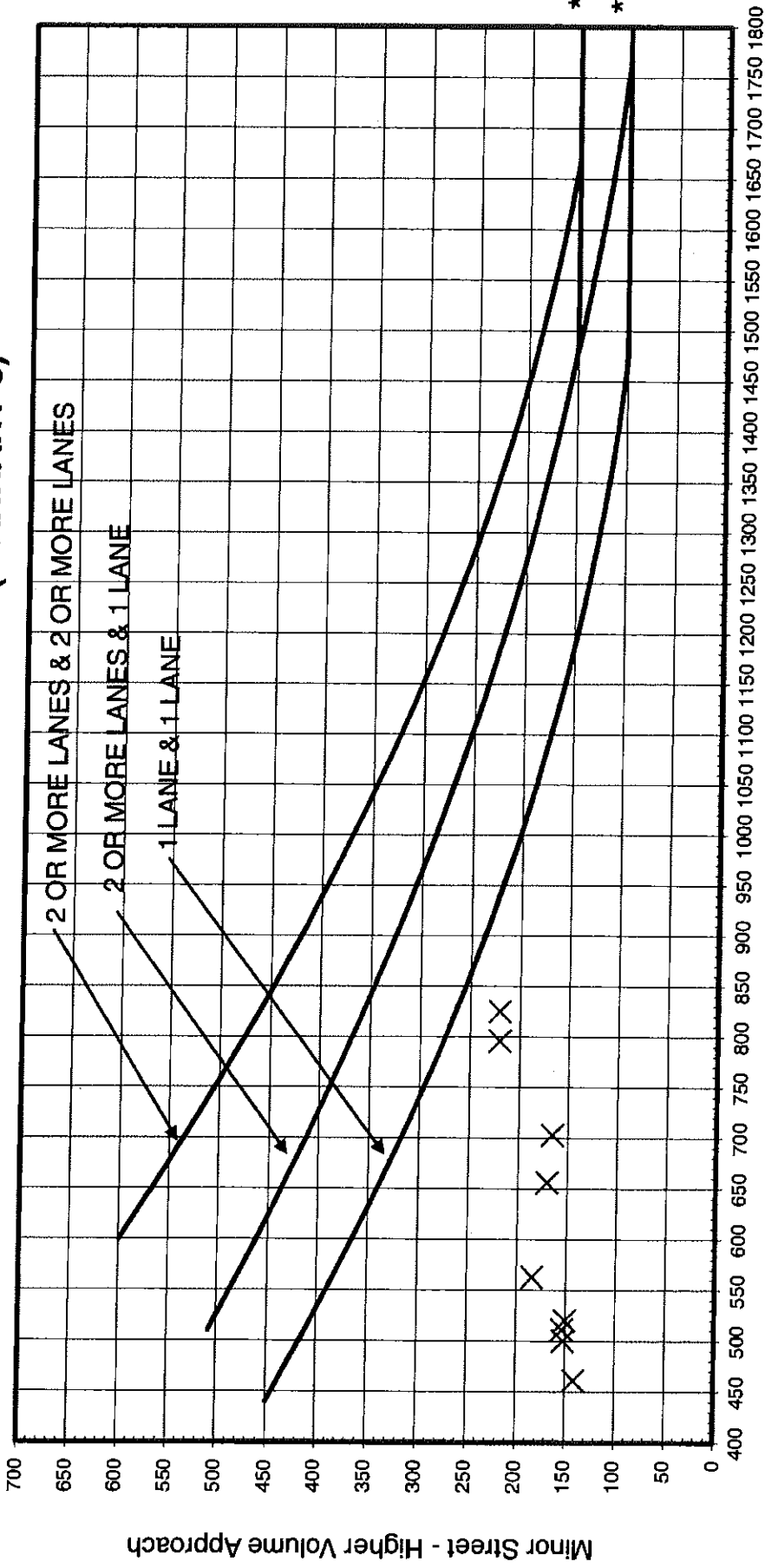
* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Forest Hills Blvd	Lanes	1
Minor Road =	Lee Blvd	Lanes	1
Road Location =	Urban		
Warrant 2 (Urban) =	2 Hours Meet	Warrant Met?	NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 24, 2011	7:00 AM	10:00 AM	
Tuesday	May 24, 2011	11:00 AM	2:00 PM	
Tuesday	May 24, 2011	3:00 PM	6:00 PM	

564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Forest Hills Blvd
 Minor Road = Lee Blvd
 Road Location = Urban

Lanes
1
1

Warrant 3 (Urban) = 0 Hours Meet
 Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Tuesday	May 24, 2011	7:00 AM	10:00 AM	
Tuesday	May 24, 2011	11:00 AM	2:00 PM	
Tuesday	May 24, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data

GE and Noble Rd

E. Cleveland, Ohio

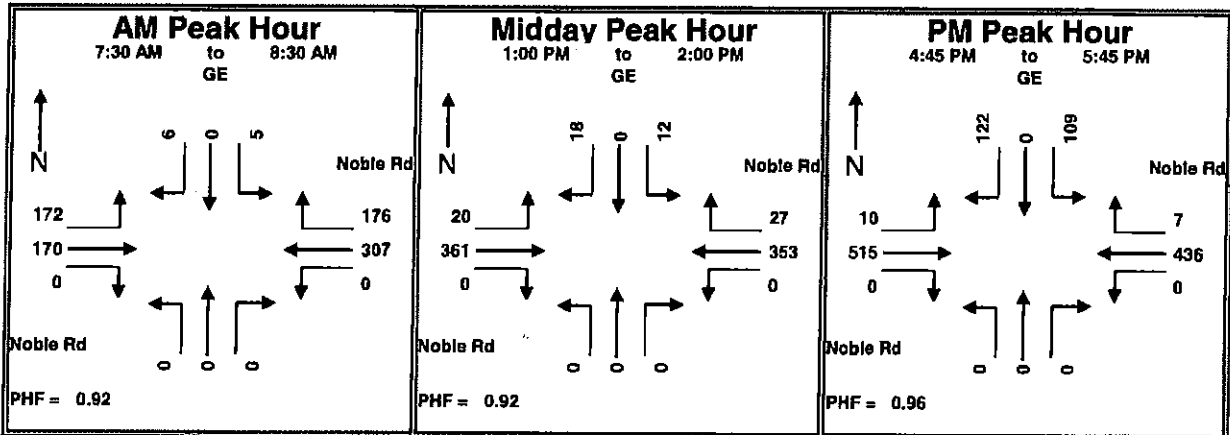


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.916	Wednesday	June 15, 2011	7:00 AM	10:00 AM	Warm
0.916	Wednesday	June 15, 2011	11:00 AM	2:00 PM	Sunny
0.916	Wednesday	June 15, 2011	3:00 PM	6:00 PM	Sunny

ADT Factor: 1.70
Intersection ID: 1

Start Time	Northbound				GE Southbound				Total North South	Noble Rd Eastbound				Noble Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	0	0	0	303	2	330	18	635	352	2953	0	40	1	2981	363	34	6650	7285
	Percent Trucks = 0%				Percent Trucks = 3%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	0	0	0	0	472	3	514	28	989	548	4600	0	82	2	4644	565	53	10360	11349



Notes:

Noble & GE
 Bus Counts
 June 15, 2011

File Name : 2304-06-15-
 Site Code : 00061511
 Start Date : 06/15/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot.
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
07:00 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
07:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Total	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0
08:00 AM	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
08:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Total	1	0	0	0	0	3	0	0	0	0	0	0	0	3	1	0	0
09:00 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
09:15 AM	0	0	0	0	2	4	0	0	0	0	0	0	0	1	0	0	0
09:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
Total	0	0	0	0	2	7	0	0	0	0	0	0	0	4	1	0	1
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
11:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
12:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	3	0	0	0	0	0	0	0	4	0	0	0
01:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
01:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
03:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	3	0	0	0
04:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
04:45 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0

Noble & GE
 Bus Counts
 June 15, 2011

File Name : 2304-06-15
 Site Code : 00061511
 Start Date : 06/15/2011
 Page No : 2

Groups Printed: Bank 2

Start Time	From North				From East				From South				From West				int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
05:15 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	4	0	0	0
Grand Total	2	0	0	0	2	28	0	0	0	0	0	0	0	27	2	0	6
Apprch %	100.0	0.0	0.0	0.0	6.7	93.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.1	6.9	0.0	
Total %	3.3	0.0	0.0	0.0	3.3	45.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.3	3.3	0.0	

SIGNAL WARRANT



INTERSECTION: GE and Noble Rd
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N:1 S:0 E:2 W:2
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga RTE: _____
 CONSULTANT: URS CORPORATION SECT: _____
 CALC. BY: _____ CKD BY: _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

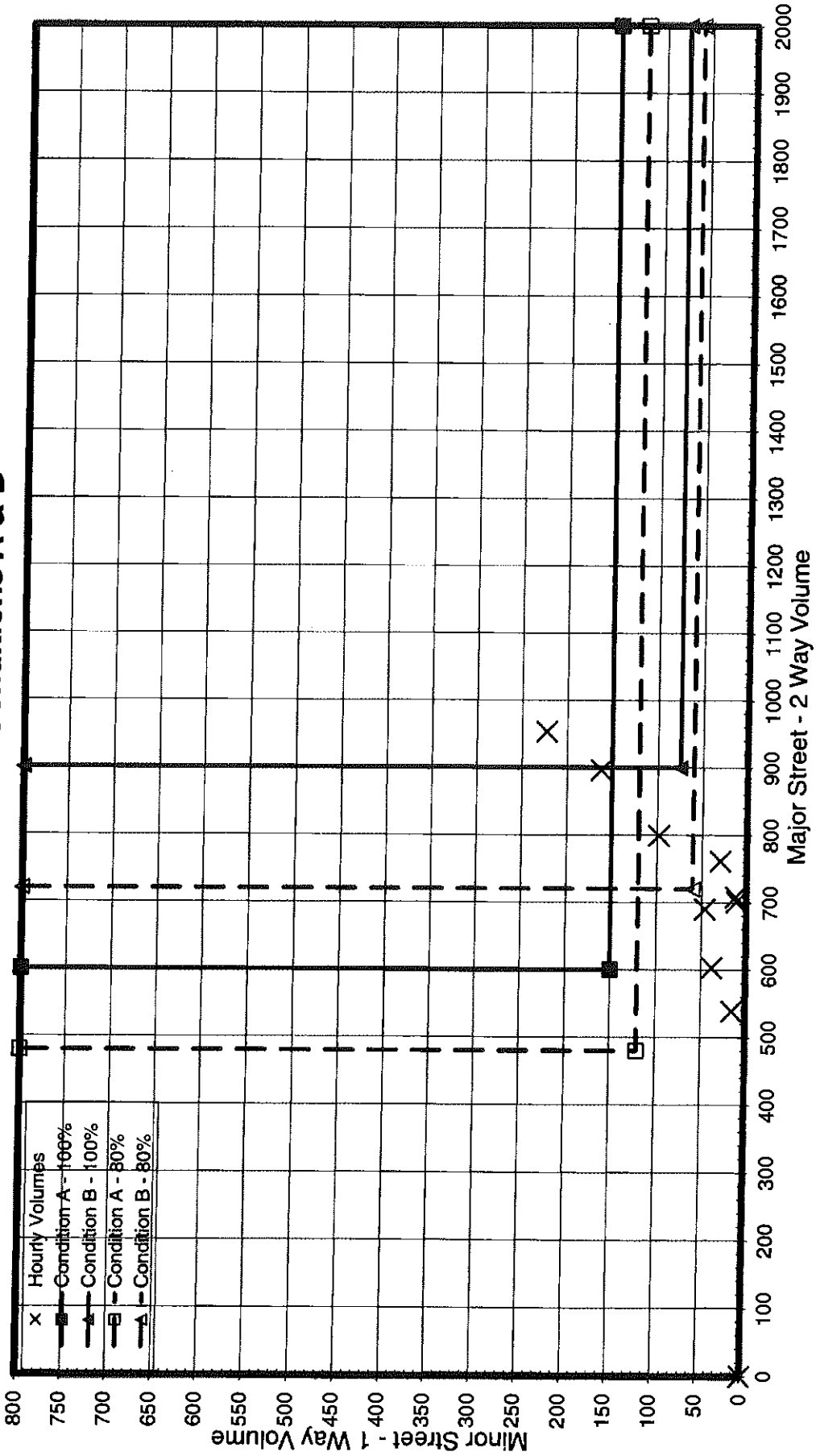
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

COND. NO. OF LANES	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT #2		WARRANT #3	
	MINOR ST		100%		80%		100%		80%		100%		80%		#2	#3		
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	FOUR HOURS	PEAK HOURS				
1	0	0	500	150	400	120	750	75	600	60								
2+	X	0	600	200	480	160	900	100	720	80								
70%			350	105	280	84	525	53	420	42								
MID-1AM	0	0	420	140	336	112	630	70	504	56								
1AM-2AM	0	0																
2AM-3AM	0	0																
3AM-4AM	0	0																
4AM-5AM	0	0																
5AM-6AM	0	0																
6AM-7AM	0	0																
7AM-8AM	701	0			X													
8AM-9AM	708	0			X													
9AM-10AM	539	0			X													
10AM-11AM	0	0																
11AM-NOON	603	0			X													
NOON-1PM	690	0			X													
1PM-2PM	761	0			X													
2PM-3PM	0	0																
3PM-4PM	799	0			X													
4PM-5PM	896	0			X													
5PM-6PM	953	0			X													
6PM-7PM	0	0																
7PM-8PM	0	0																
8PM-9PM	0	0																
9PM-10PM	0	0																
10PM-11PM	0	0																
11PM-MID	0	0																
HOURS MET			2		2		1		3					1	0			
WARRANT SATISFIED?			NO		NO		NO		NO					NO	NO			

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

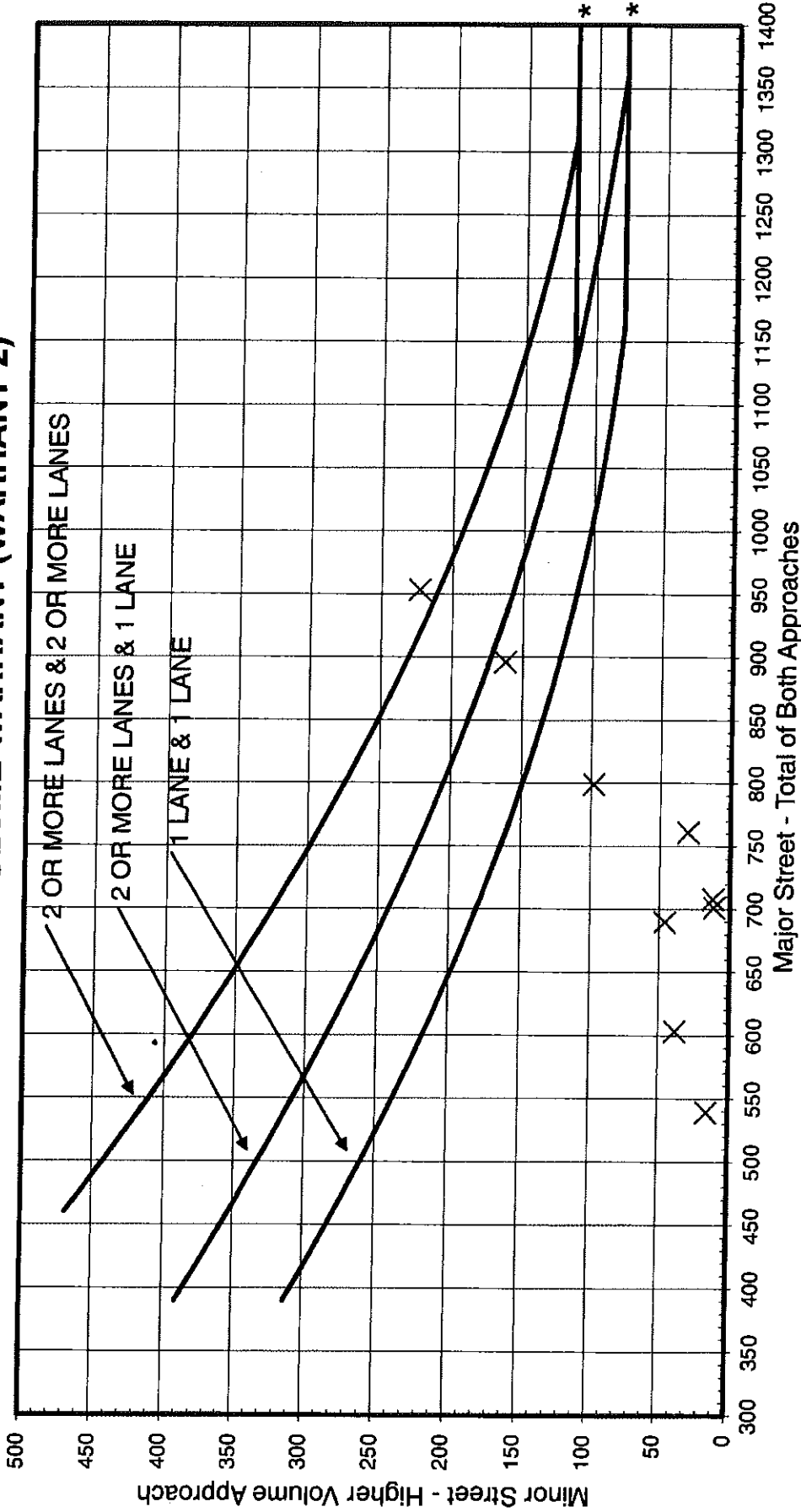


Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 15, 2011	7:00 AM	10:00 AM	Warm
Wednesday	June 15, 2011	11:00 AM	2:00 PM	Sunny
Wednesday	June 15, 2011	3:00 PM	6:00 PM	Sunny

Major Road = Noble Rd	Lanes = 2
Minor Road = GE	Lanes = 1
Road Location = Urban	

Warrant Met?	
Condition A (100%) = 2 Hours Meet	No
Condition B (100%) = 1 Hours Meet	No
Condition A (80%) = 2 Hours Meet	No
Condition B (80%) = 3 Hours Meet	No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

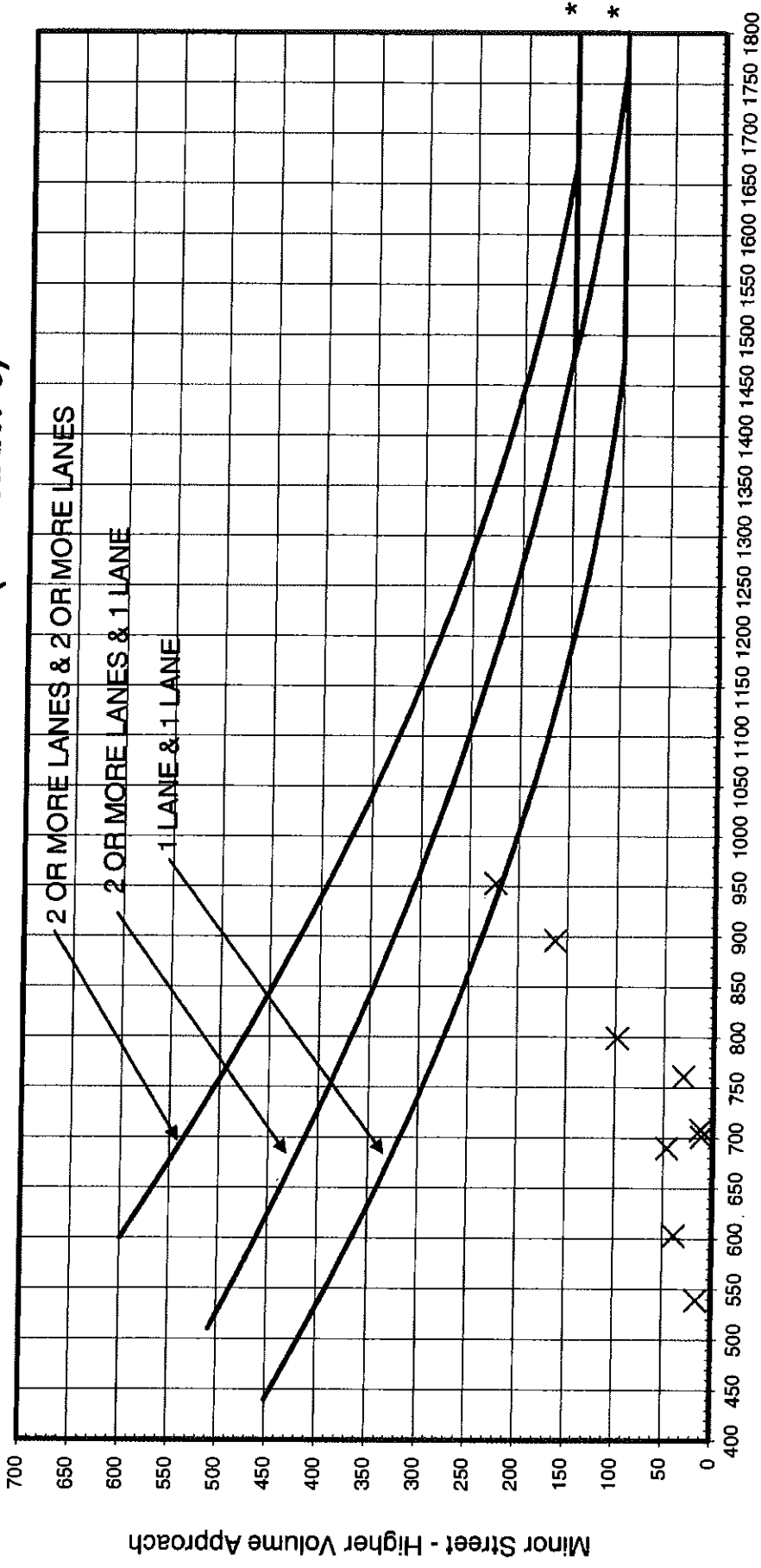
Day of Week	Date & Year	From	To	Weather
Wednesday	June 15, 2011	7:00 AM	10:00 AM	Warm
Wednesday	June 15, 2011	11:00 AM	2:00 PM	Sunny
Wednesday	June 15, 2011	3:00 PM	6:00 PM	Sunny

Major Road = Noble Rd
 Minor Road = GE
 Road Location = Urban

Lanes: 2
 1

Warrant Met? 1 Hours Meet NO

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Noble Rd Lanes 2
 Minor Road = GE 1
 Road Location = Urban

Warrant 3 (Urban) = 0 Hours Meet
 Warrant Met? NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 15, 2011	7:00 AM	10:00 AM	Warm
Wednesday	June 15, 2011	11:00 AM	2:00 PM	Sunny
Wednesday	June 15, 2011	3:00 PM	6:00 PM	Sunny



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15-Minute Count Data

Helmsdale Rd and Noble Rd

E. Cleveland, Ohio

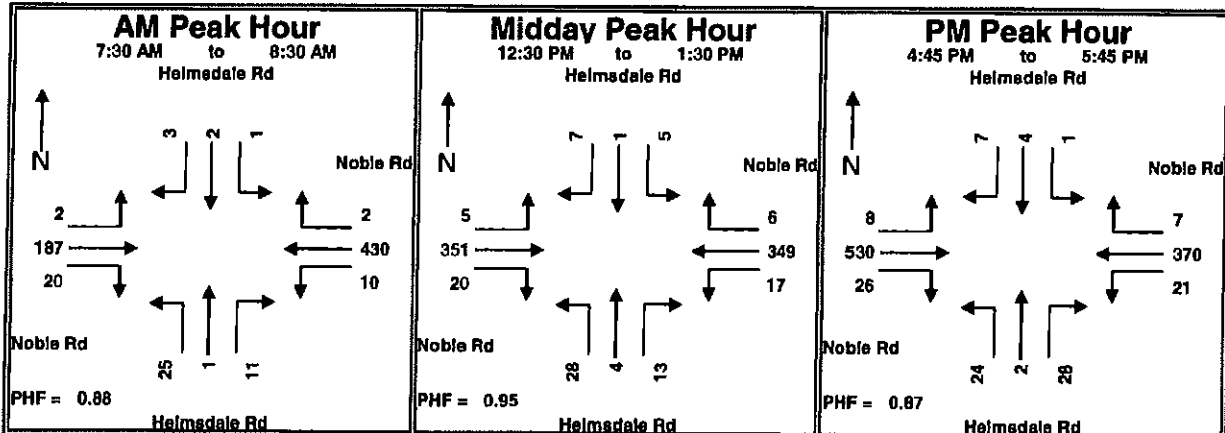


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.936	Monday	June 13, 2011	7:00 AM	10:00 AM	Cloudy
0.936	Monday	June 13, 2011	11:00 AM	2:00 PM	Cloudy
0.936	Monday	June 13, 2011	3:00 PM	6:00 PM	Cloudy

ADT Factor: 1.70
Intersection ID: 1

Start Time	Helmsdale Rd Northbound				Helmsdale Rd Southbound				Total South	Noble Rd Eastbound				Noble Rd Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	184	13	143	2	15	12	39	2	406	34	2858	190	21	141	3010	32	22	6265	6671
ADT	293	21	228	3	24	19	62	3	646	54	4549	302	33	224	4791	51	35	9973	10619
	Percent Trucks = 1%				Percent Trucks = 3%					Percent Trucks = 1%				Percent Trucks = 1%					
7:00 AM	5	0	2	0	0	0	0	0	7	0	32	2	2	1	64	1	0	100	107
7:15 AM	4	0	0	0	0	2	1	0	7	0	28	2	0	3	75	0	0	108	115
7:30 AM	6	0	3	0	0	0	0	0	11	1	49	4	0	1	104	0	0	159	170
7:45 AM	7	0	4	0	0	0	0	0	11	0	48	5	0	2	126	0	1	181	192
8:00 AM	6	1	4	0	0	1	2	0	14	1	54	7	1	5	118	1	0	184	198
8:15 AM	4	0	0	0	1	1	1	0	7	0	36	4	0	2	84	1	0	127	134
8:30 AM	3	1	2	0	0	0	2	0	8	0	67	6	1	5	79	1	0	158	166
8:45 AM	4	0	1	1	0	1	0	0	6	2	61	12	0	3	77	0	1	155	161
9:00 AM	4	0	4	0	0	0	1	0	9	1	62	1	1	3	82	2	1	151	160
9:15 AM	7	0	2	0	1	0	0	0	10	3	53	5	1	1	65	2	1	129	139
9:30 AM	5	0	4	0	1	0	1	0	11	0	53	3	1	1	72	2	1	131	142
9:45 AM	6	0	3	0	1	0	0	0	10	1	47	10	1	2	70	0	1	130	140
11:00 AM	6	0	9	0	0	0	0	0	15	0	62	5	1	3	66	0	0	136	151
11:15 AM	1	0	6	0	1	0	0	0	8	0	58	6	1	8	64	1	1	135	143
11:30 AM	2	0	11	0	0	1	0	0	14	0	69	2	0	7	54	0	0	132	146
11:45 AM	2	1	6	0	0	0	0	0	9	0	85	14	0	6	75	1	0	181	190
12:00 PM	3	0	7	0	1	0	2	0	13	1	96	9	0	2	86	0	0	194	207
12:15 PM	6	0	3	0	1	0	0	0	10	0	70	4	2	6	82	0	1	182	172
12:30 PM	3	1	5	0	0	0	2	1	11	2	81	6	3	3	108	2	0	202	213
12:45 PM	11	1	1	0	2	0	0	0	15	1	99	2	2	3	83	3	3	191	206
1:00 PM	4	0	4	0	0	0	3	0	11	0	89	6	2	5	93	1	1	194	205
1:15 PM	10	2	3	0	3	1	2	1	21	2	82	6	0	6	65	0	0	161	182
1:30 PM	2	1	2	0	0	1	0	0	6	0	61	8	0	2	61	1	2	133	139
1:45 PM	5	0	2	0	0	0	3	0	10	2	80	3	0	3	76	0	1	164	174
3:00 PM	6	1	2	0	0	0	4	0	13	1	85	4	0	5	74	0	2	189	182
3:15 PM	1	0	4	0	0	1	0	0	6	2	103	5	0	4	86	0	1	200	206
3:30 PM	7	0	3	0	1	0	1	0	12	2	111	5	1	5	89	0	0	212	224
3:45 PM	5	0	7	1	0	0	2	0	14	0	86	4	0	9	106	1	0	206	220
4:00 PM	7	1	4	0	0	0	3	0	15	2	104	4	0	7	107	1	2	225	240
4:15 PM	8	0	1	0	0	0	0	0	7	1	91	6	1	0	89	1	1	188	195
4:30 PM	4	0	3	0	0	0	1	0	8	0	121	3	0	5	72	0	1	201	209
4:45 PM	7	0	8	0	0	0	3	0	18	2	128	3	0	5	88	0	0	224	242
5:00 PM	10	2	9	0	0	1	2	0	24	2	120	10	0	4	88	5	0	229	253
5:15 PM	4	0	4	0	0	1	1	0	10	2	145	9	0	7	120	1	0	284	294
5:30 PM	3	0	7	0	1	2	1	0	14	2	137	4	0	5	76	1	0	225	239
5:45 PM	6	1	3	0	1	0	0	0	11	1	107	1	0	2	90	3	0	204	215



Notes:

Noble & Helmsdale
 Bus Counts
 June 13, 2011

File Name : 2304-06-13-
 Site Code : 00061311
 Start Date : 06/13/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot.
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
07:30 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
Total	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	
08:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
08:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
08:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
08:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Total	0	1	0	0	0	3	0	0	0	0	0	0	0	2	0	0	
09:00 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	
09:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
09:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
Total	0	0	0	0	0	6	0	0	0	0	0	0	0	3	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	4	0	0	
12:00 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
12:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
01:30 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
01:45 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	5	0	0	0	0	0	0	0	2	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
03:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
03:30 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	4	0	0	0	0	0	0	0	3	0	0	
04:00 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	
04:15 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	
04:30 PM	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	
04:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	7	1	0	0	0	0	0	0	4	0	0	

Noble & Helmsdale
 Bus Counts
 June 13, 2011

File Name : 2304-06-13-
 Site Code : 00061311
 Start Date : 06/13/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
05:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
05:30 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0
Grand Total	0	1	0	0	0	38	1	0	0	0	0	0	0	29	0	0	6
Apprch %	0.0	100.0	0.0	0.0	0.0	97.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	
Total %	0.0	1.4	0.0	0.0	0.0	55.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	42.0	0.0	0.0	

SIGNAL WARRANT



INTERSECTION: Heimsdale Rd and Noble Rd
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 2 W: 2
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga RTE: _____
 CONSULTANT: URS CORPORATION SECT: _____
 CALC. BY: _____ CKD BY: _____

SKETCH OR DRAWING _____
 VEHICULAR VOLUME COUNT _____
 TRAFFIC PROJECTION _____
 ACCIDENT DATA _____
 PEDESTRIAN COUNT _____
 GAP ANALYSIS _____

OTHER (DESCRIBE): _____
 ADDITIONAL ITEMS ATTACHED _____
 SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

COND. NO. OF LANES	ADJUSTED HOURLY VOLUMES				CONDITION A						CONDITION B						WARRANT #2		WARRANT #3	
	MAJOR ST		MINOR ST		100%		80%		100%		80%		100%		80%		FOUR HOUR	PEAK HOUR		
	1-WAY	2-WAY	1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR				
NORM	1		X		500	150	400	120	750	75	600	60								
	2+	X			600	200	480	160	900	100	720	80								
70%	1				350	105	280	84	525	53	420	42								
	2+				420	140	336	112	630	70	504	56								
MID-1AM		0	0	0																
1AM-2AM		0	0	0																
2AM-3AM		0	0	0																
3AM-4AM		0	0	0																
4AM-5AM		0	0	0																
5AM-6AM		0	0	0																
6AM-7AM		0	0	0																
7AM-8AM		548	33	3			X													
8AM-9AM		624	28	9	X		X													
9AM-10AM		541	35	5			X													
10AM-11AM		0	0	0			X													
11AM-NOON		584	44	2			X						X							
NOON-1PM		749	41	8	X		X													
1PM-2PM		652	35	13	X		X													
2PM-3PM		0	0	0			X													
3PM-4PM		787	38	9	X		X													
4PM-5PM		838	41	7	X		X													
5PM-6PM		942	49	10	X		X		X											
6PM-7PM		0	0	0			X													
7PM-8PM		0	0	0			X													
8PM-9PM		0	0	0			X													
9PM-10PM		0	0	0			X													
10PM-11PM		0	0	0			X													
11PM-MID		0	0	0			X													
HOURS MET				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WARRANT SATISFIED?				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

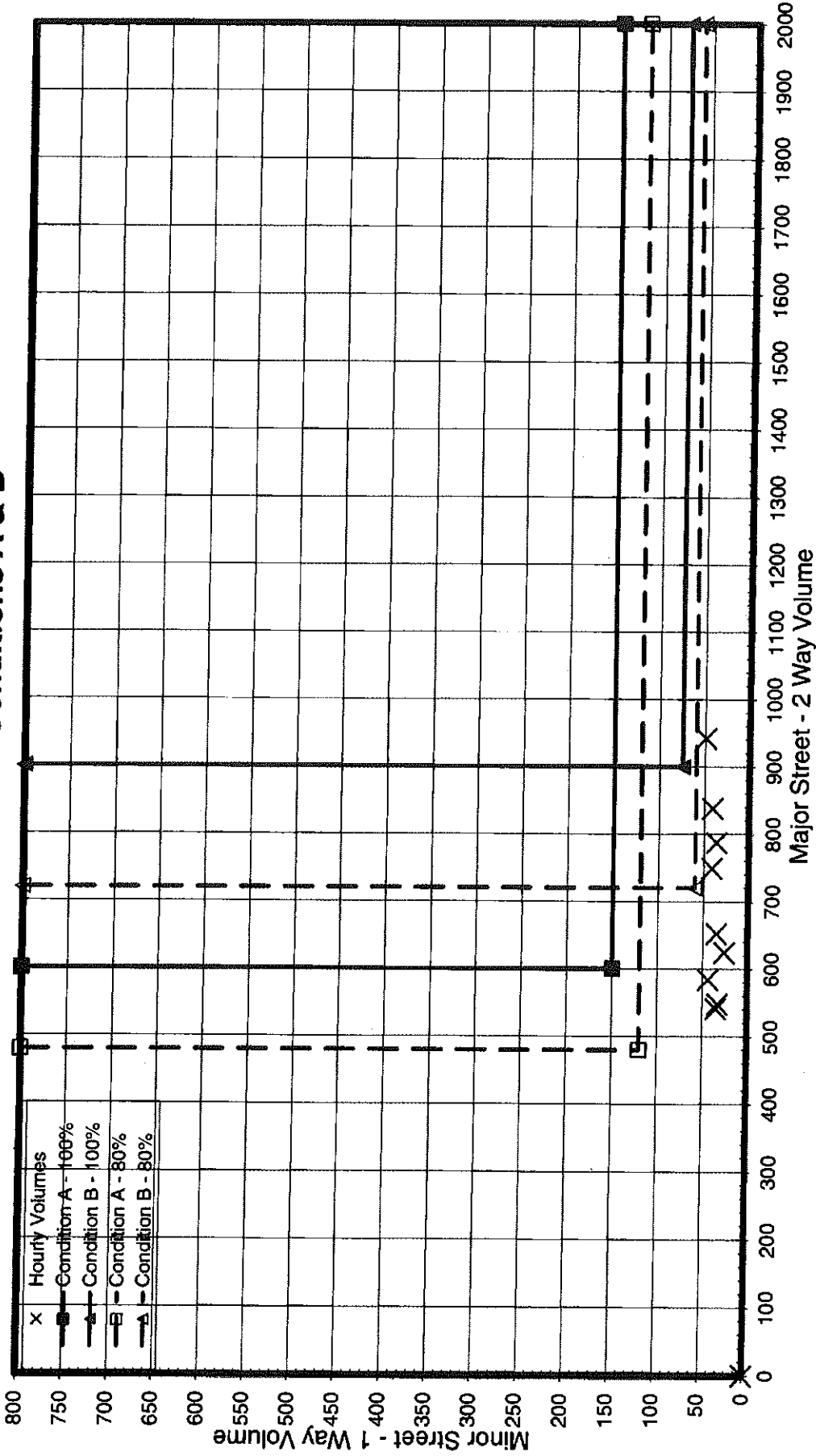
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ TWO-WAY

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

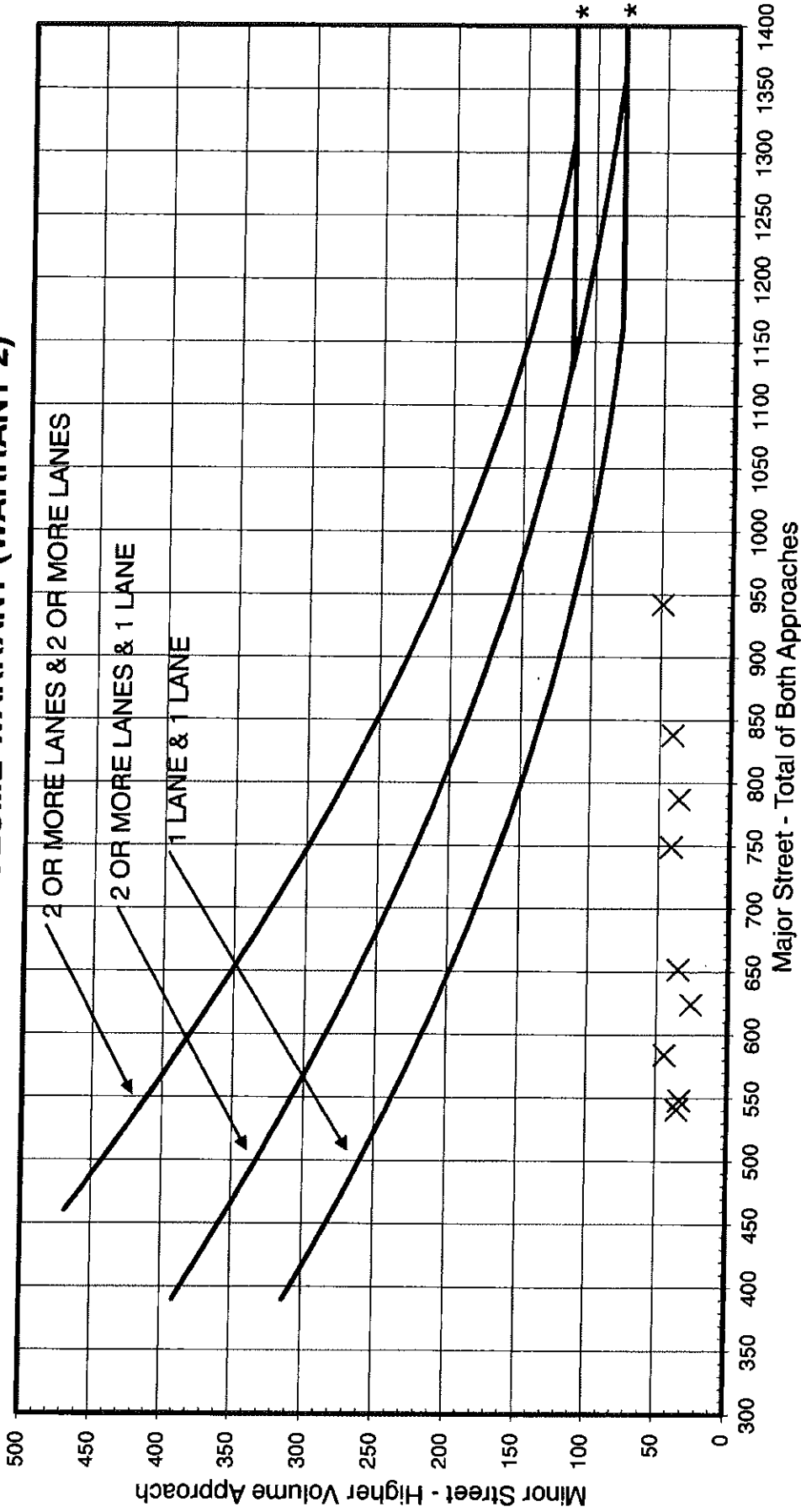


Major Road =	Noble Rd	Lanes	2
Minor Road =	Helmstead Rd		1
Road Location =	Urban		
Condition A (100%) =	0 Hours Meet	Warrant Met?	No
Condition B (100%) =	0 Hours Meet		No
Condition A (80%) =	0 Hours Meet		No
Condition B (80%) =	0 Hours Meet		No

Day of Week	Date & Year	Hours		Weather
		From	To	
Monday	June 13, 2011	7:00 AM	10:00 AM	Cloudy
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URS
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 Akron, OH 44320-1100
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FOUR HOUR VOLUME WARRANT (WARRANT 2)



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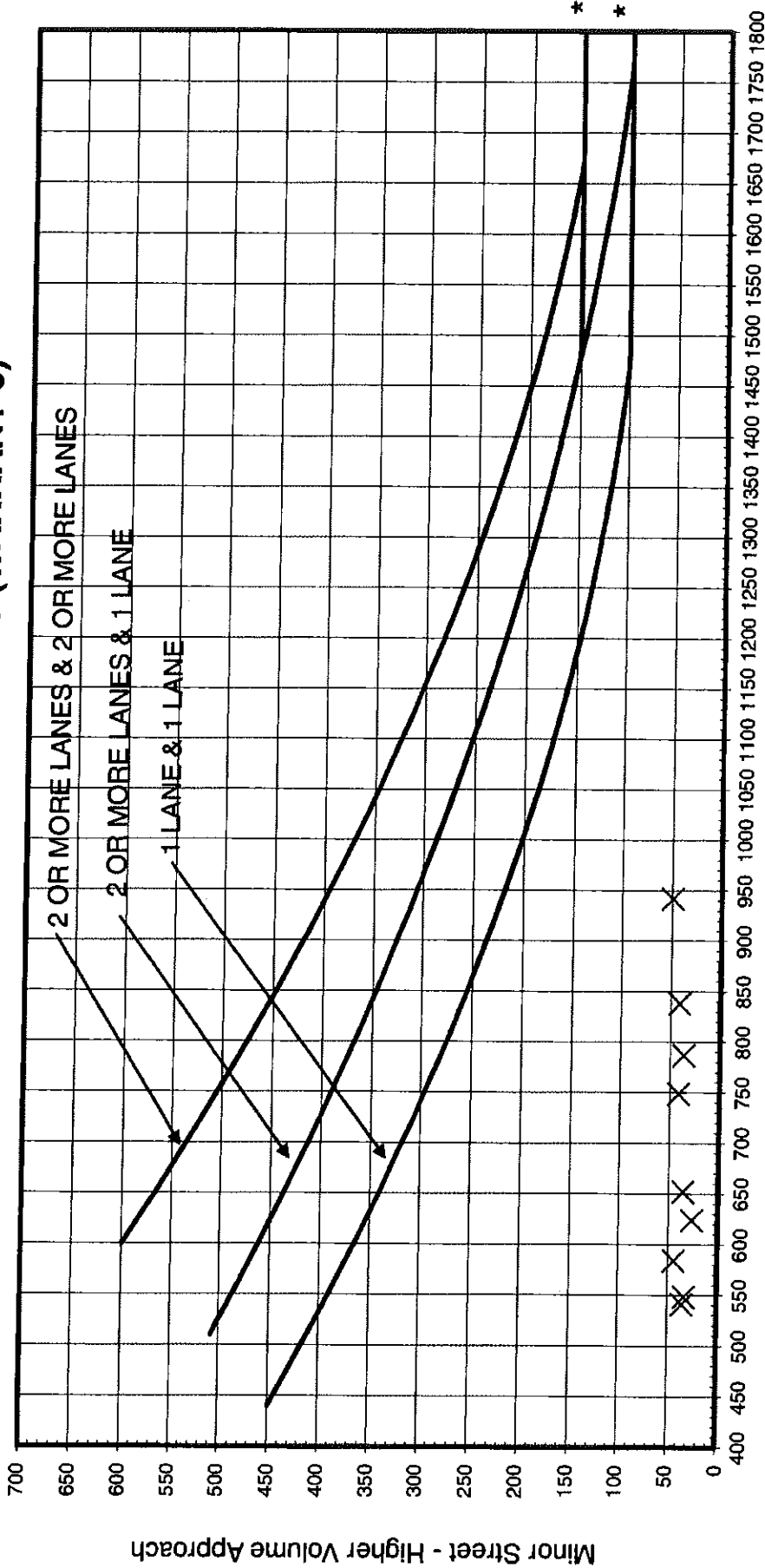
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 Minor Road = Helmsdale Rd
 Road Location = Urban

Lanes	2
	1

Warrant Met? 0 Hours Met NO

PEAK HOUR VOLUME WARRANT (WARRANT 3)



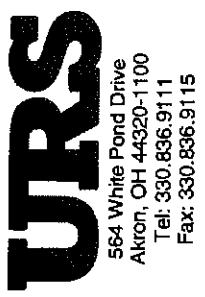
Major Street - Total of Both Approaches

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15-Minute Count Data

Nela View Rd and Noble Rd

E. Cleveland, Ohio

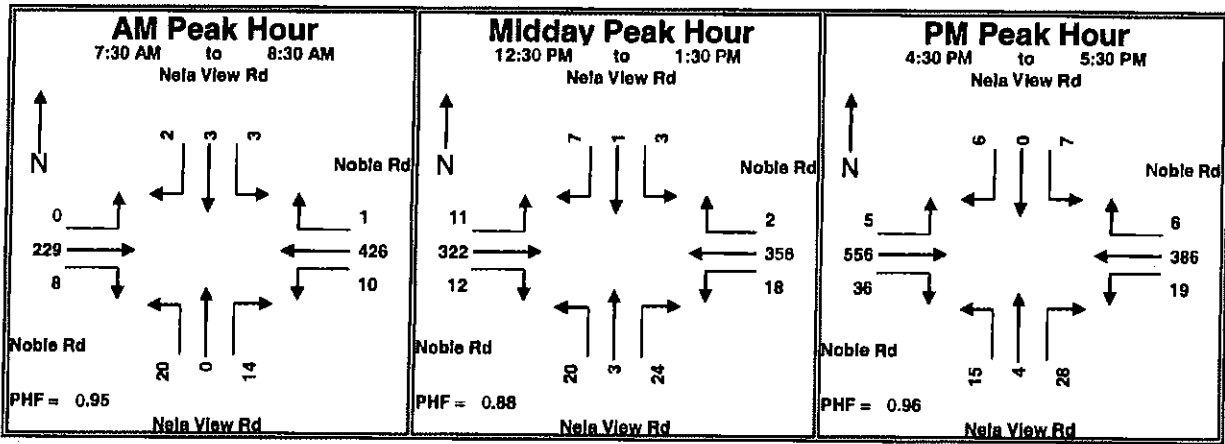


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Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 16, 2011	7:00 AM	10:00 AM	Rain
0.886	Thursday	June 16, 2011	11:00 AM	2:00 PM	Rain
0.886	Thursday	June 16, 2011	3:00 PM	6:00 PM	Rain

ADT Factor: 1.70
Intersection ID: 1

Start Time	Nela View Rd Northbound				Nela View Rd Southbound				Total South	Noble Rd Eastbound				Noble Rd Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	184	13	156	2	33	15	44	1	425	55	3127	139	31	134	3083	34	41	6572	6997
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	247	20	235	3	50	23	66	2	640	83	4712	209	47	202	4845	51	62	9903	10543



Notes:

Noble & Nelaview
 Bus Counts
 June 16, 2011

File Name : 2304-06-16
 Site Code : 00061611
 Start Date : 06/16/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
07:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
07:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	4	0	0	0	0	0	0	0	2	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
08:15 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
08:45 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	4	0	0	0	0	0	0	0	2	0	0	0
09:00 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
09:15 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
09:30 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	6	0	0	0	0	0	0	0	2	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
12:00 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
12:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0
01:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
01:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	2	1	0	0	0	1	0	0	2	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
03:30 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
03:45 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	1	0	0	5	0	0	0	0	0	0	0	4	0	0	1
04:00 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
04:15 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0
04:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0
Total	0	0	1	0	0	7	0	0	0	0	0	0	0	6	0	0	1

Noble & Nelaview
 Bus Counts
 June 16, 2011

File Name : 2304-06-16-
 Site Code : 00061611
 Start Date : 06/16/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
05:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	
05:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0		
Grand Total	0	0	2	0	0	36	1	0	0	0	1	0	0	25	0	0		6
Approch %	0.0	0.0	100.0	0.0	0.0	97.3	2.7	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0		
Total %	0.0	0.0	3.1	0.0	0.0	55.4	1.5	0.0	0.0	0.0	1.5	0.0	0.0	36.5	0.0	0.0		

SIGNAL WARRANT



INTERSECTION: Nela View Rd and Noble Rd
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 2 W: 2
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga RITE: _____
 CONSULTANT: URS CORPORATION CALC. BY: _____
 CKD BY: _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____
 WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____
 WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____
 WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____
 WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

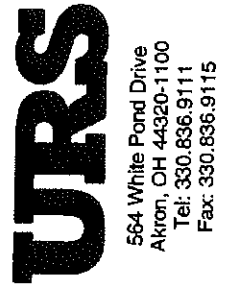
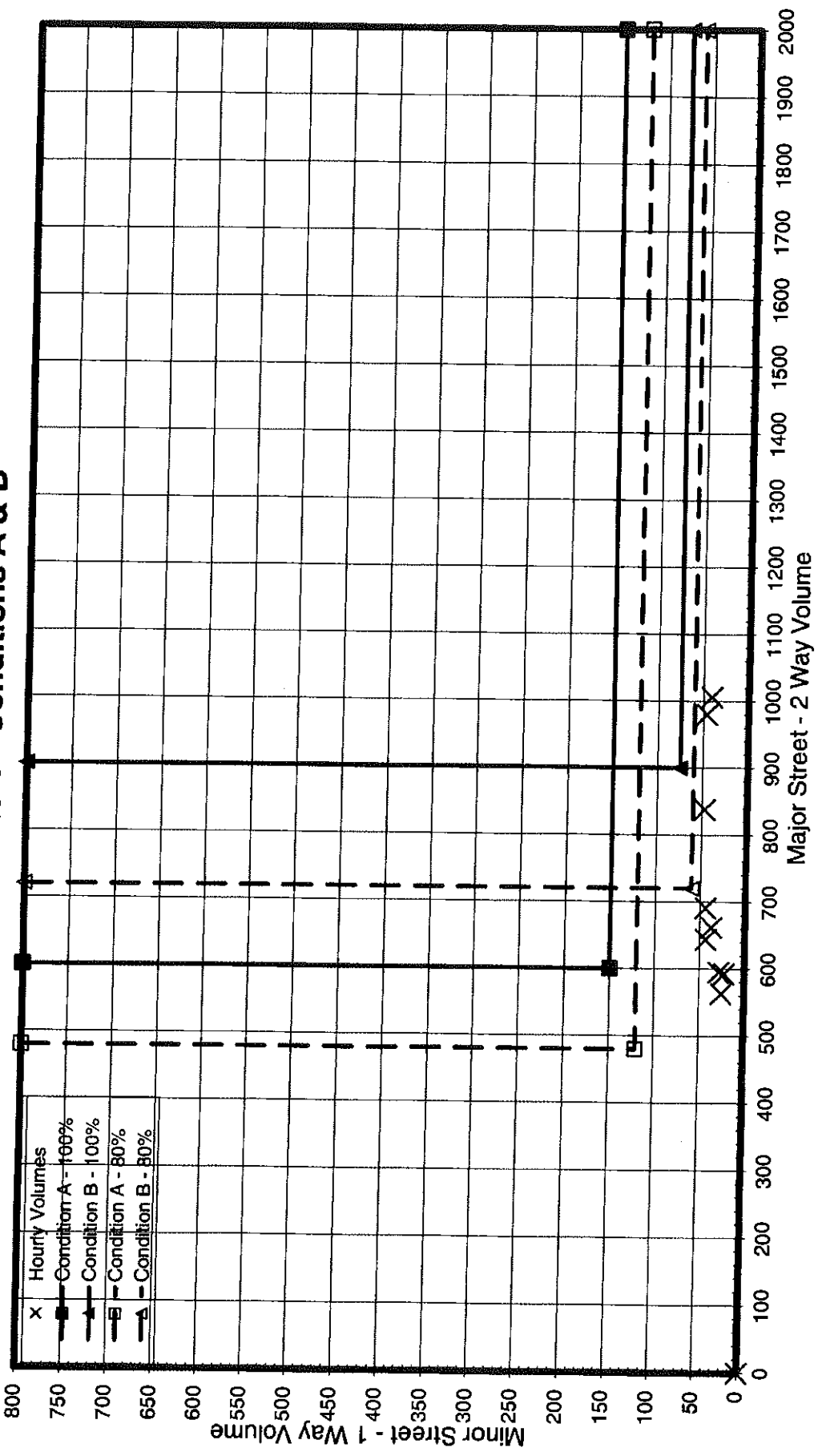
COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3			
		MAJOR ST		MINOR ST		100%		80%		100%		80%		#2 FOUR HOUR	#3 PEAK HOUR
		2-WAY	1-WAY	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR		
NORM	2+	X		500	150	400	120	750	75	600	60				
70%	1			600	200	480	160	900	100	720	80				
	2+			350	105	280	84	525	53	420	42				
	MID-1AM	0	0	420	140	336	112	630	70	504	56				
	1AM-2AM	0	0												
	2AM-3AM	0	0												
	3AM-4AM	0	0												
	4AM-5AM	0	0												
	5AM-6AM	0	0												
	6AM-7AM	0	0												
	7AM-8AM	593	22			X									
	8AM-9AM	595	28			X									
	9AM-10AM	563	25			X									
	10AM-11AM	0	0			X									
	11AM-NOON	662	37			X									
	NOON-1PM	644	43			X									
	1PM-2PM	691	44			X									
	2PM-3PM	0	0												
	3PM-4PM	838	47			X									
	4PM-5PM	990	46			X									
	5PM-6PM	1006	41			X		X		X					
	6PM-7PM	0	0			X		X		X					
	7PM-8PM	0	0												
	8PM-9PM	0	0												
	9PM-10PM	0	0												
	10PM-11PM	0	0												
	11PM-MID	0	0												
HOURS MET		0	0	0	0	0	0	0	0	0	0	0	0	0	0
WARRANT SATISFIED?		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ADDITIONAL ITEMS ATTACHED
 SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

OTHER (DESCRIBE): _____

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

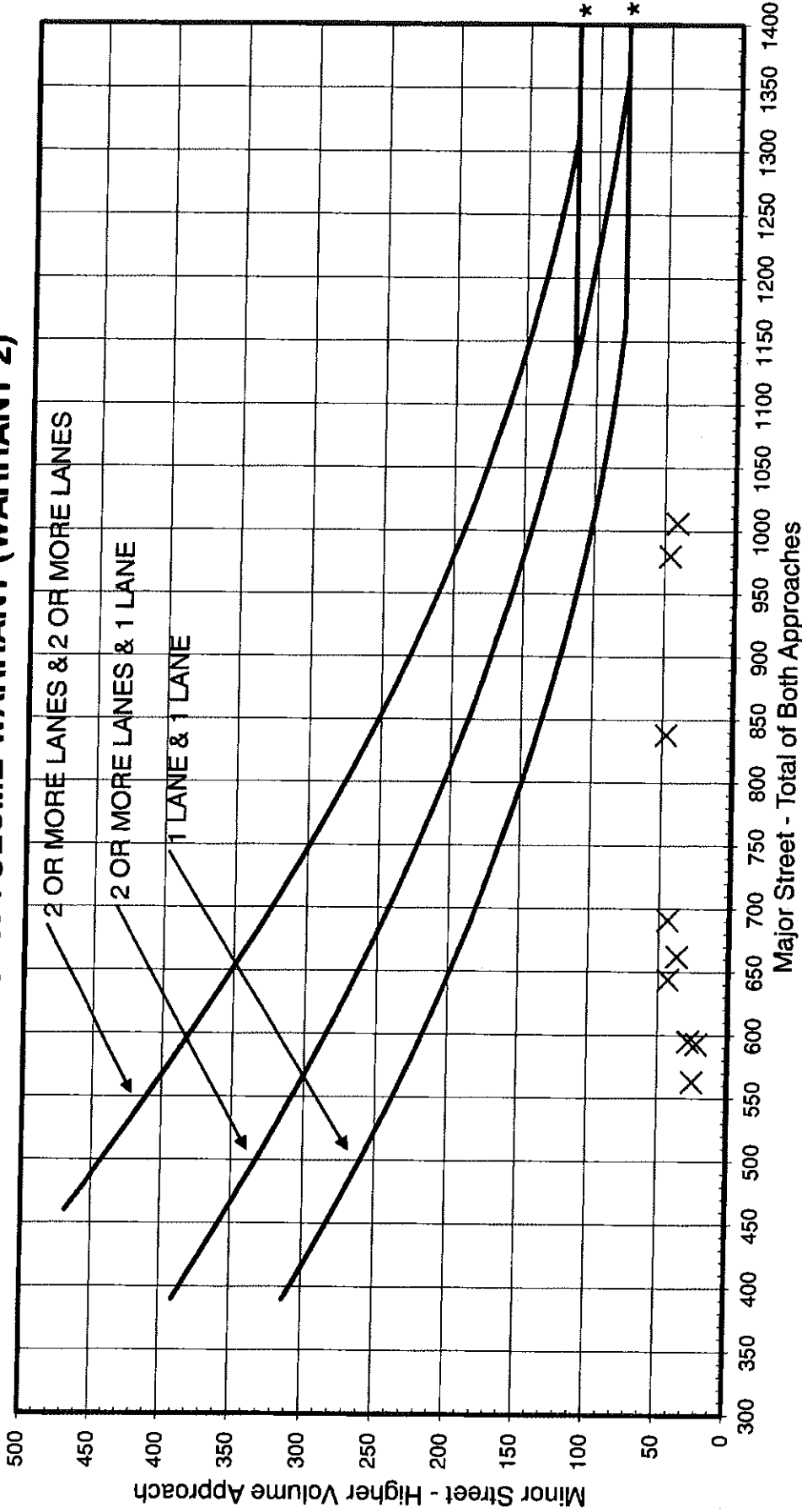
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	From	To	Weather
Thursday	June 16, 2011	7:00 AM	10:00 AM	Rain
Thursday	June 16, 2011	11:00 AM	2:00 PM	Rain
Thursday	June 16, 2011	3:00 PM	6:00 PM	Rain

Major Road = Noble Rd	Lanes	2
Minor Road = Nela View Rd		1
Road Location = Urban		
Condition A (100%) =	Warrant Met?	No
Condition B (100%) =		No
Condition A (80%) =		No
Condition B (80%) =		No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Noble Rd
 Minor Road = Nela View Rd
 Road Location = Urban

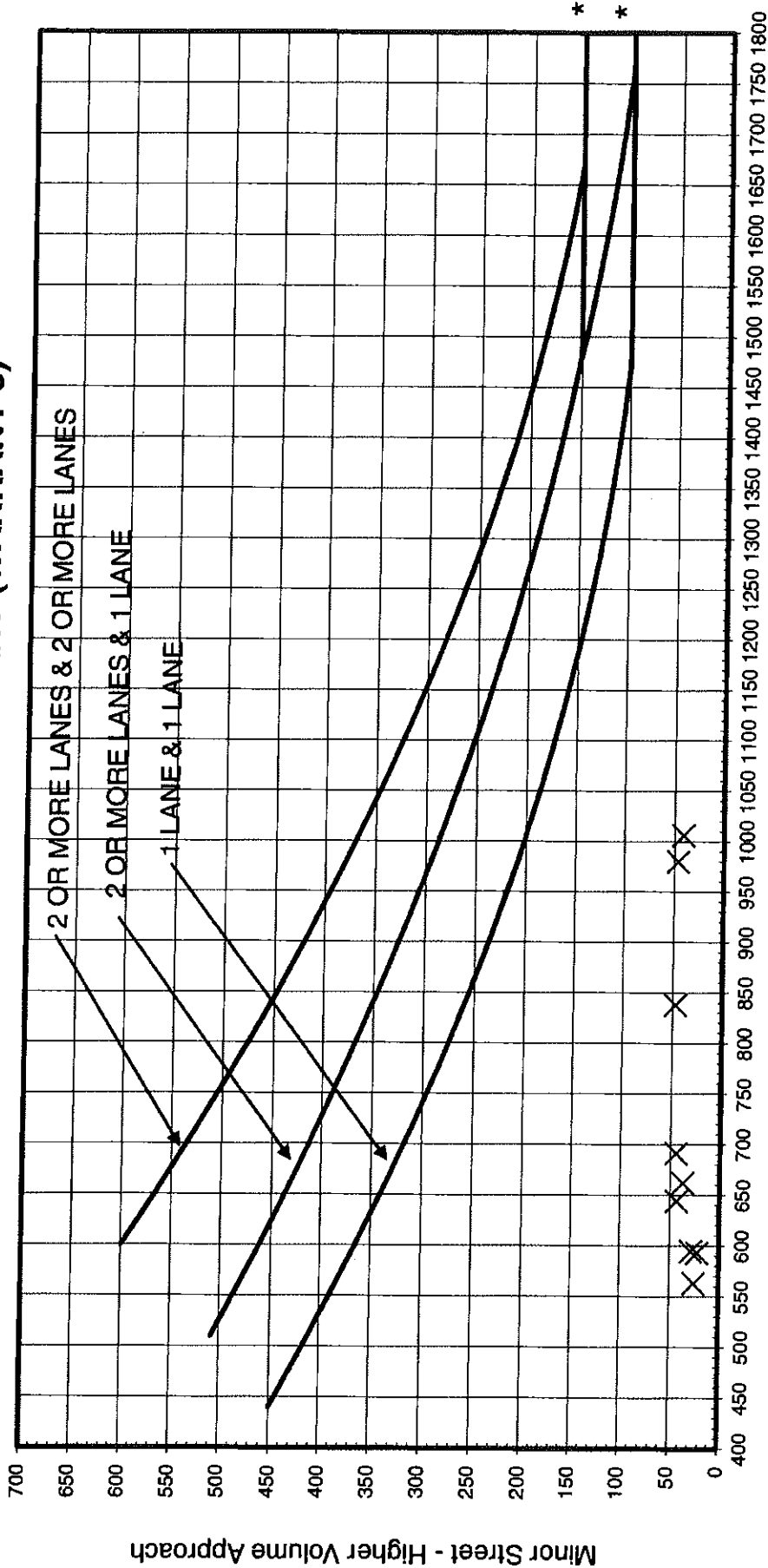
Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 16, 2011	7:00 AM	10:00 AM	Rain
Thursday	June 16, 2011	11:00 AM	2:00 PM	Rain
Thursday	June 16, 2011	3:00 PM	6:00 PM	Rain

Warrant 2 (Urban) = 0 Hours Meet
 Warrant Met? NO



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Noble Rd
 Minor Road = Nela View Rd
 Road Location = Urban

Day of Week	Date & Year	From	To	Weather
Thursday	June 16, 2011	7:00 AM	10:00 AM	Rain
Thursday	June 16, 2011	11:00 AM	2:00 PM	Rain
Thursday	June 16, 2011	3:00 PM	6:00 PM	Rain

Warrant 3 (Urban) = 0 Hours Meet
 Warrant Met? NO

564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data Terrace Rd and Noble Rd



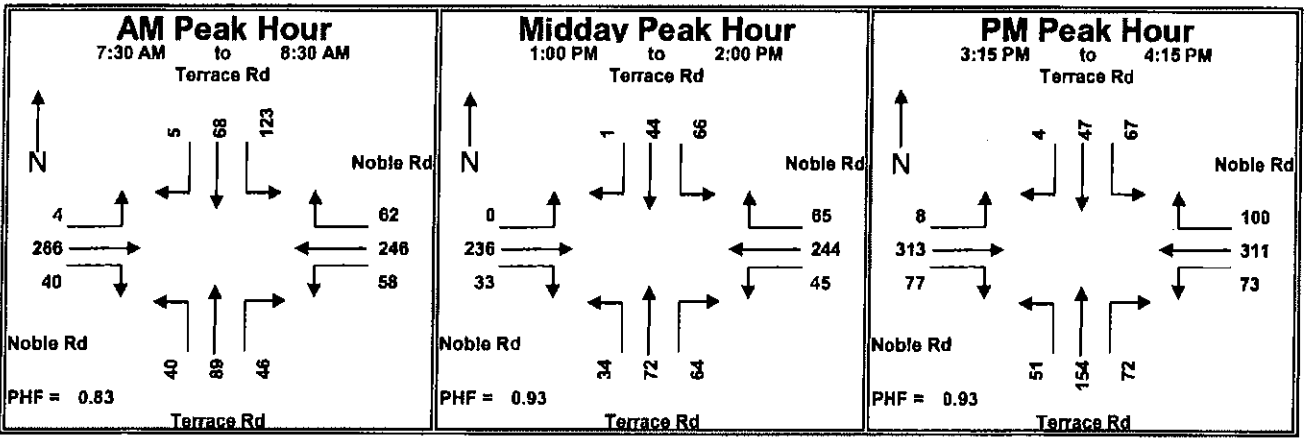
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 31, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 31, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 31, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Noble Rd Eastbound				Noble Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	302	801	466	4	614	420	24	2	2627	25	2225	353	22	468	2177	689	23	5937	8564
ADT	468	1243	723	6	952	652	37	3	4075	39	3451	548	34	726	3377	1069	36	9209	13284
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 1%					



Notes:

Noble/Terrace
 Bus Counts
 May 31, 2011

File Name : 2304-5-31-2C
 Site Code : 00053111
 Start Date : 05/31/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
07:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	6	0	0	
08:00 AM	0	0	1	0	0	2	0	0	0	1	0	0	0	1	0	0	
08:15 AM	0	0	0	0	0	4	0	0	0	0	0	0	0	2	0	0	
08:30 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	
08:45 AM	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	
Total	0	1	1	0	0	7	2	0	0	1	0	0	0	5	0	0	
09:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
09:15 AM	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	
09:30 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	6	0	0	1	0	0	0	0	3	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
11:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	1	0	0	0	3	0	0	0	0	0	0	0	2	0	0	
12:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	1	3	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	2	0	0	0	0	0	0	1	5	0	0	
01:00 PM	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	
01:15 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	
01:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
01:45 PM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	
Total	0	0	1	0	2	3	0	0	0	0	0	0	0	3	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
03:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	
03:30 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	
03:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	1	5	0	0	0	0	0	0	0	3	0	0	
04:00 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
04:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	4	0	0	0	0	0	0	0	2	0	0	

Noble/Terrace
 Bus Counts
 May 31, 2011

File Name : 2304-5-31-20
 Site Code : 00053111
 Start Date : 05/31/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
05:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
05:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	3	0	0	0	
Grand Total	0	2	2	0	3	34	2	0	1	1	0	0	1	32	0	0	7	
Apprch %	0.0	50.0	50.0	0.0	7.7	87.2	5.1	0.0	50.0	50.0	0.0	0.0	3.0	97.0	0.0	0.0		
Total %	0.0	2.6	2.6	0.0	3.8	43.6	2.6	0.0	1.3	1.3	0.0	0.0	1.3	41.0	0.0	0.0		

15-Minute Count Data Terrace Ped and Noble Ped



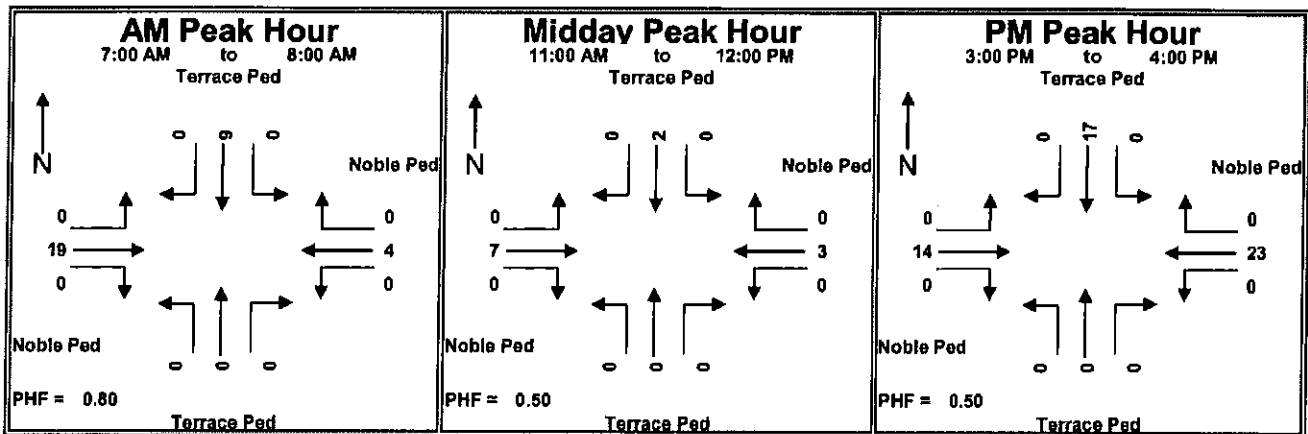
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.909	Tuesday	May 31, 2011	7:00 AM	10:00 AM	
0.909	Tuesday	May 31, 2011	11:00 AM	2:00 PM	
0.909	Tuesday	May 31, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Ped Northbound				Terrace Ped Southbound				Total North	Noble Ped Eastbound				Noble Ped Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	4	0	0	0	37	0	0	41	0	64	0	0	0	44	0	0	108	149
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	6	0	0	0	57	0	0	64	0	99	0	0	0	68	0	0	168	231



Notes:

SIGNAL WARRANT



INTERSECTION: Terraces Rd and Noblis Rd
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes
 MAINTAINING AGENCY: _____

CO: _____ RITE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____

SECT: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED
 SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

OTHER (DESCRIBE): _____
 WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

COND. / NORM	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT	
	MAJOR ST / MINOR ST		100%			80%			100%			80%			#2	#3
	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	FOUR HOUR	PEAK HOUR
1	X	X	500	150	400	120	750	75	600	80						
2+			350	105	280	84	525	53	420	42						
70%			420	140	336	112	630	70	504	56						
MID-1AM	0	0														
1AM-2AM	0	0														
2AM-3AM	0	0														
3AM-4AM	0	0														
4AM-5AM	0	0														
5AM-6AM	0	0														
6AM-7AM	0	0														
7AM-8AM	617	146	X	X	X	X	X	X	X	X	X	X	X			
8AM-9AM	610	146	X	X	X	X	X	X	X	X	X	X	X			
9AM-10AM	533	129	X	X	X	X	X	X	X	X	X	X	X			
10AM-11AM	0	0														
11AM-NOON	486	112			X				X							
NOON-1PM	558	142	X		X	X	X	X	X	X	X	X	X			
1PM-2PM	623	170	X	X	X	X	X	X	X	X	X	X	X			
2PM-3PM	0	0														
3PM-4PM	823	286	X	X	X	X	X	X	X	X	X	X	X			
4PM-5PM	882	219	X	X	X	X	X	X	X	X	X	X	X			
5PM-6PM	825	219	X	X	X	X	X	X	X	X	X	X	X			
6PM-7PM	0	0														
7PM-8PM	0	0														
8PM-9PM	0	0														
9PM-10PM	0	0														
10PM-11PM	0	0														
11PM-MID	0	0														
HOURS MET			6	6	8	8	3	6	6	6	6	6	6	3	1	
WARRANT SATISFIED?			NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES	

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO

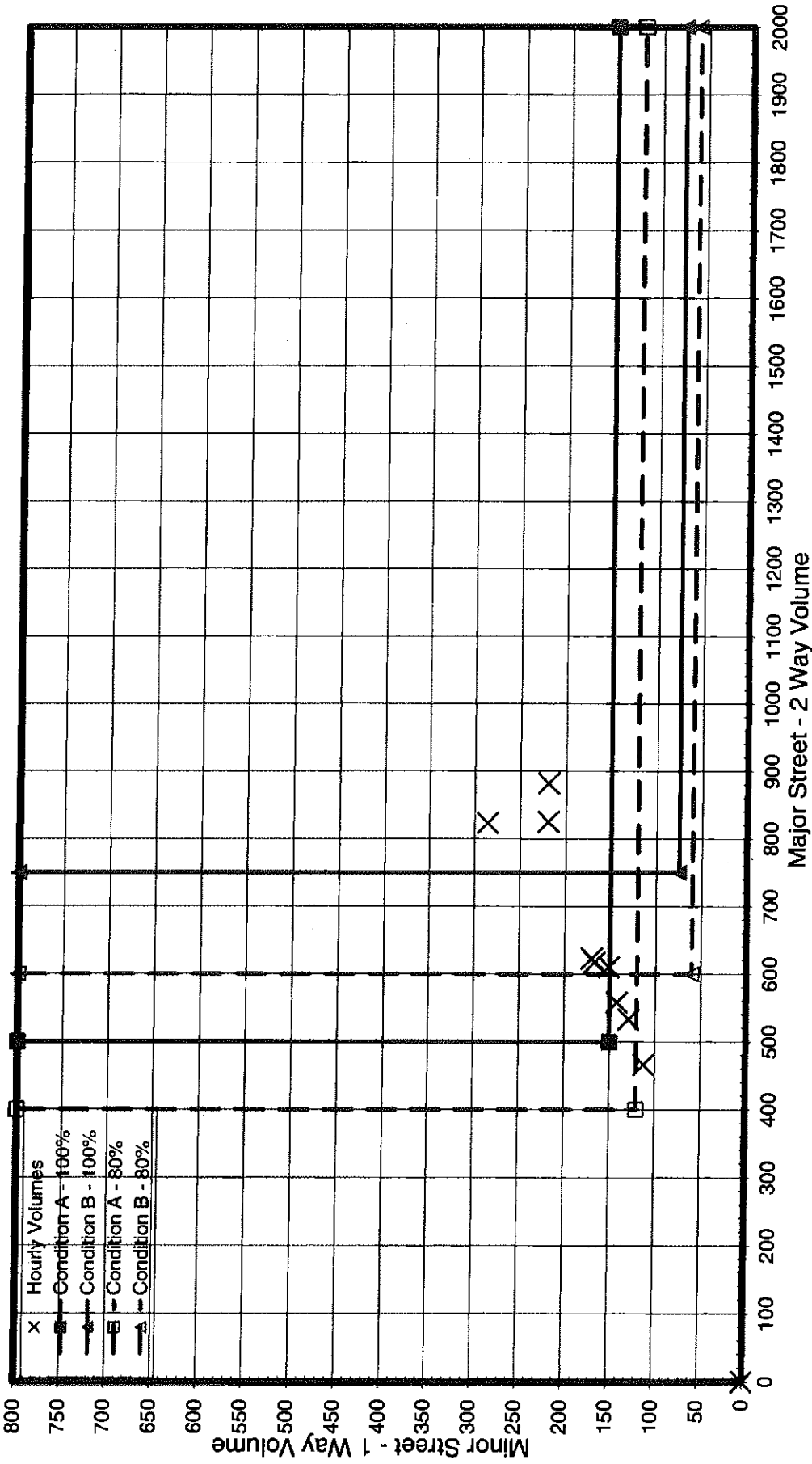
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ NO

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B



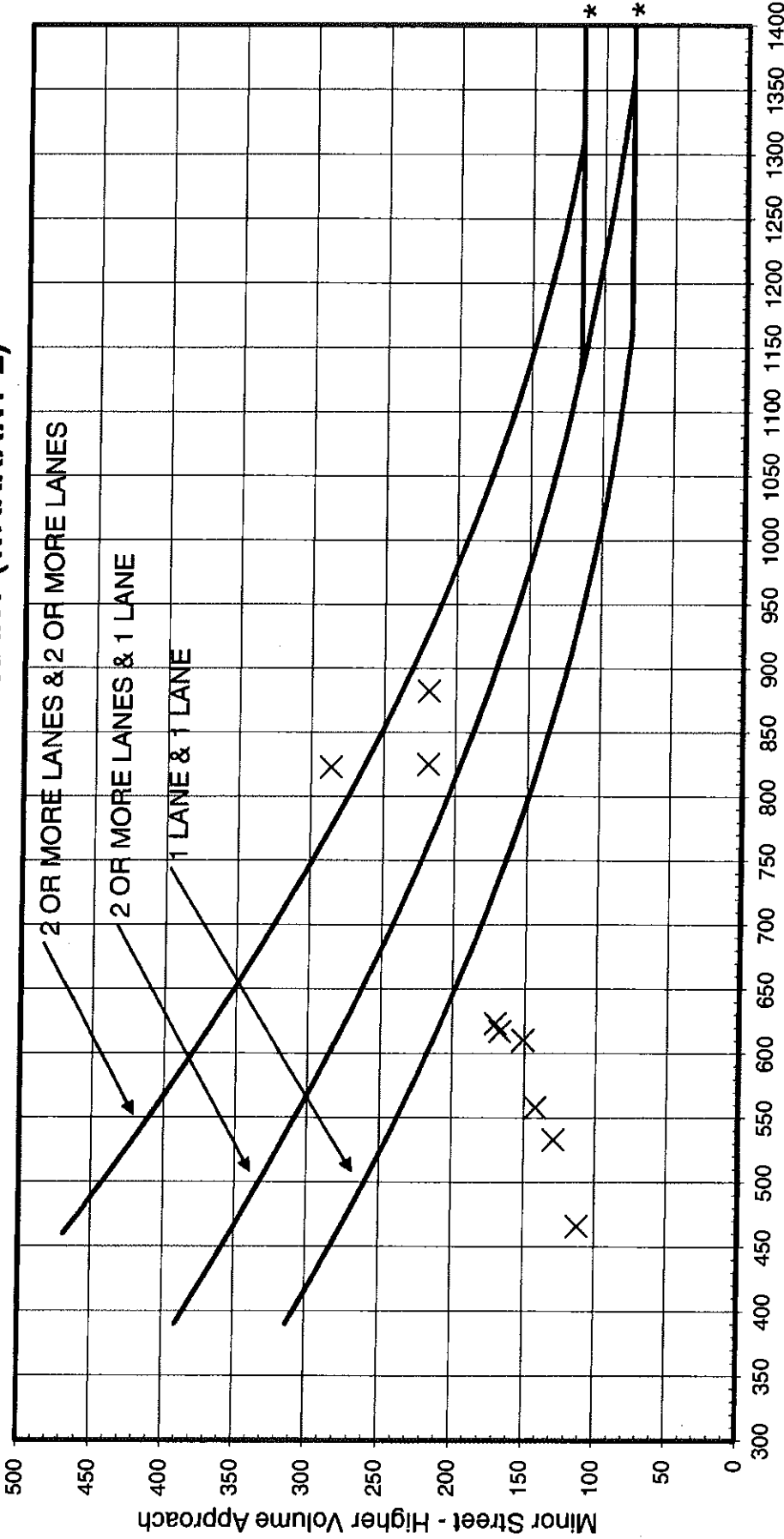
Major Road =	Noble Rd	Lanes	1
Minor Road =	Terrace Rd		1
Road Location =	Urban		

Condition	Warrant Met?
Condition A (100%) = 6 Hours Meet	No
Condition B (100%) = 3 Hours Meet	No
Condition A (80%) = 8 Hours Meet	Yes
Condition B (80%) = 6 Hours Meet	No

Day of Week	Date & Year	From	To	Weather
Tuesday	May 31, 2011	7:00 AM	10:00 AM	
Tuesday	May 31, 2011	11:00 AM	2:00 PM	
Tuesday	May 31, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



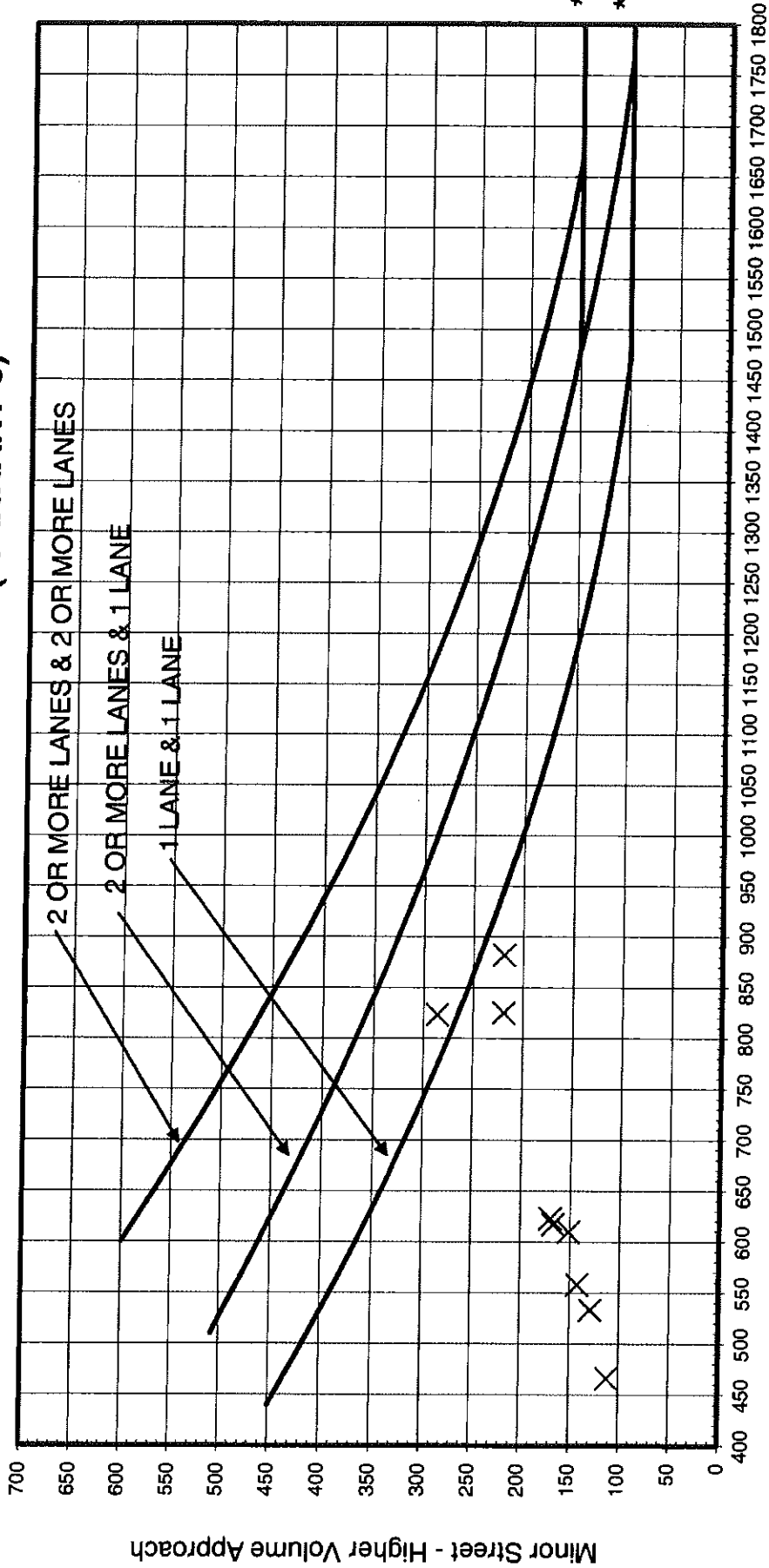
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Major Road =	Noble Rd	Lanes	1
Minor Road =	Terrace Rd		1
Road Location =	Urban		

Warrant 2 (Urban) = 3 Hours Meet Warrant Met? NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 31, 2011	7:00 AM	10:00 AM	
Tuesday	May 31, 2011	11:00 AM	2:00 PM	
Tuesday	May 31, 2011	3:00 PM	6:00 PM	

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Tuesday	May 31, 2011	7:00 AM	10:00 AM	
Tuesday	May 31, 2011	11:00 AM	2:00 PM	
Tuesday	May 31, 2011	3:00 PM	6:00 PM	



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15-Minute Count Data Allegheny Ave and Shaw Ave



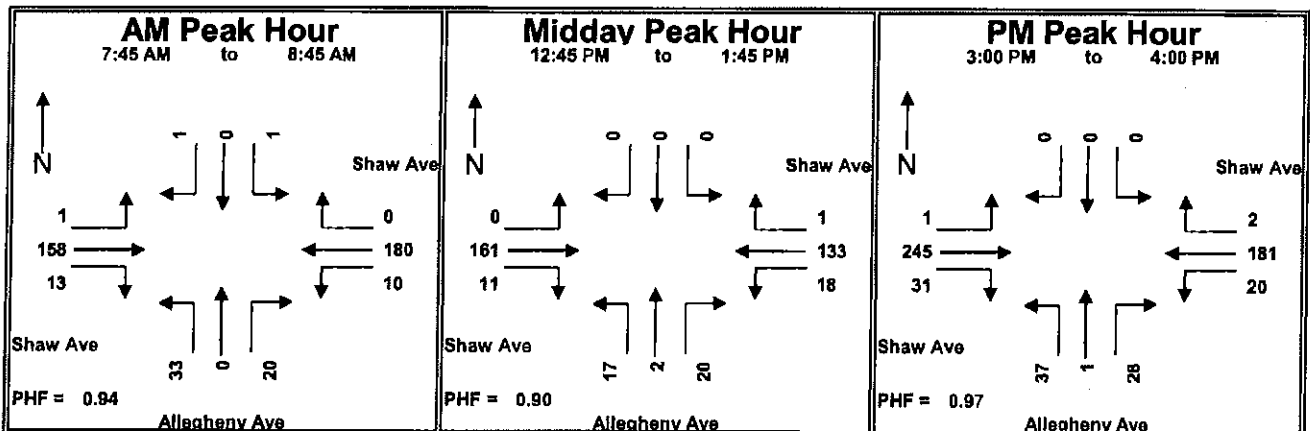
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 11, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 11, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Allegheny Ave Northbound				Southbound				Total North	Shaw Ave Eastbound				Shaw Ave Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	158	3	179	5	7	0	3	2	350	6	1517	112	33	119	1259	5	21	3018	3368
	Percent Trucks = 1%				Percent Trucks = 20%					Percent Trucks = 2%				Percent Trucks = 2%					
ADT	242	5	274	8	11	0	5	3	536	9	2325	172	51	182	1929	8	32	4625	5161



Notes:

15-Minute Count Data Allegheny Ped and Shaw Ped



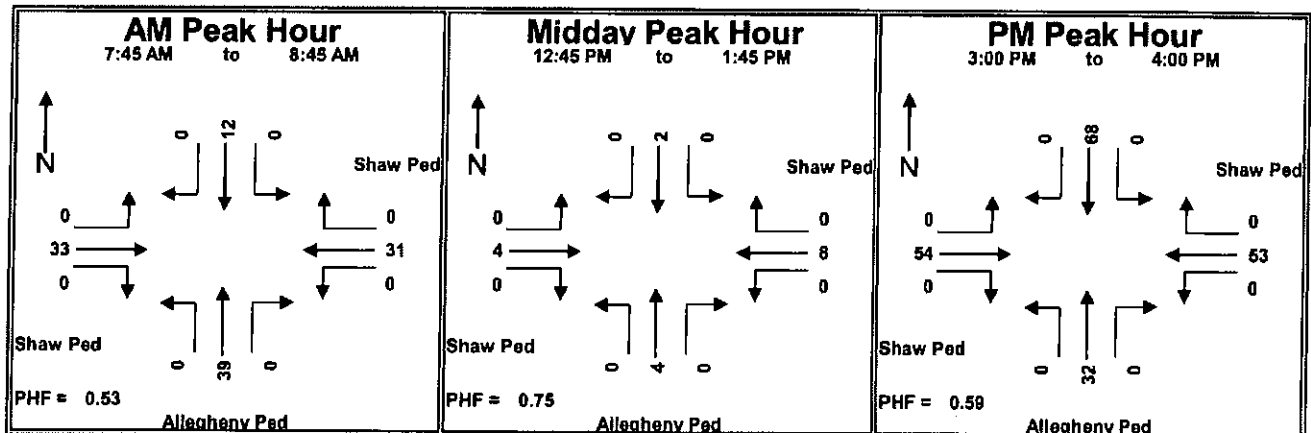
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 11, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 11, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Roadway Classification:

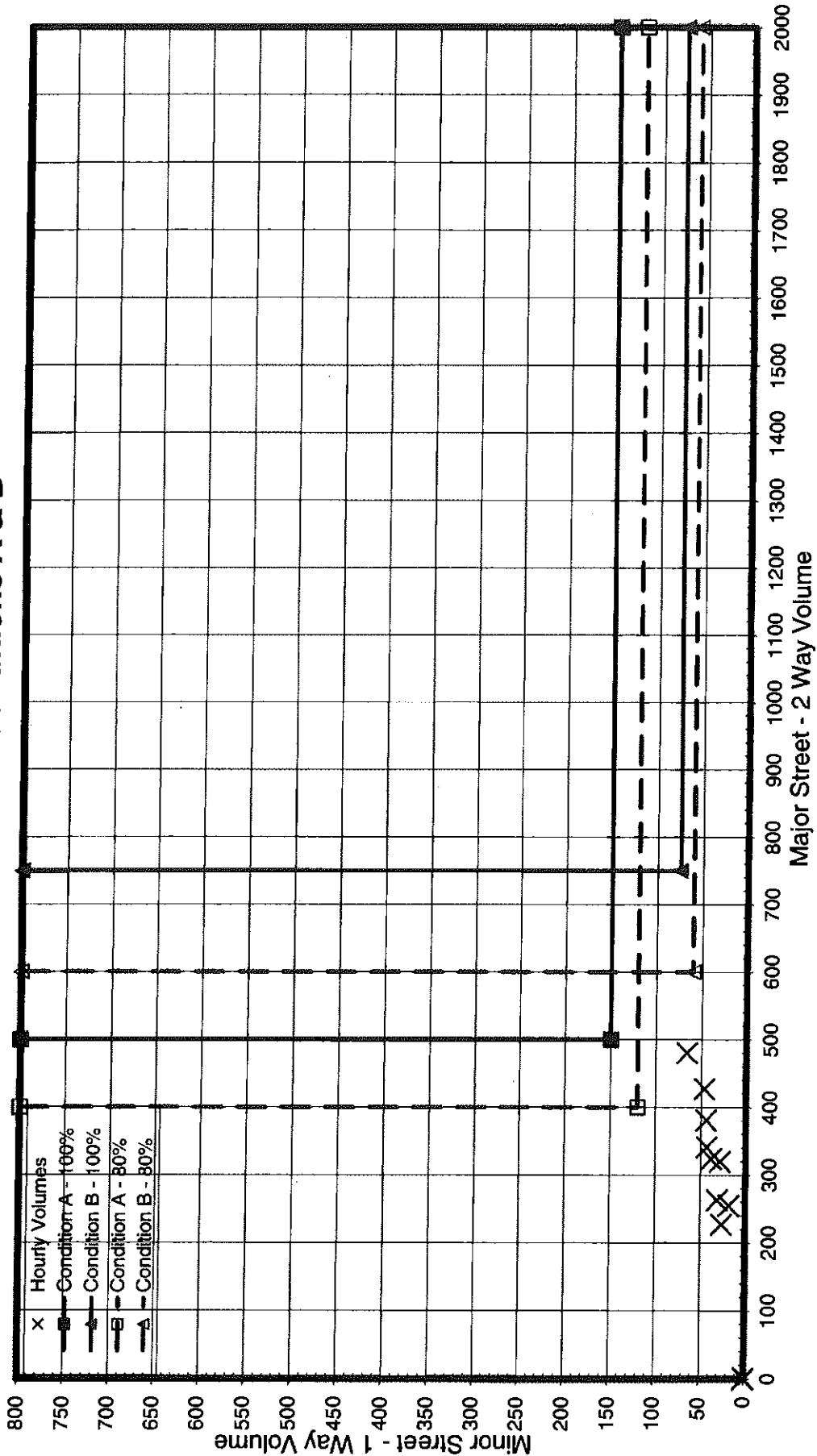
ADT Factor: 1.71
Intersection ID: 1

Start Time	Allegheny Ped Northbound				Southbound				Total North	Shaw Ped Eastbound				Shaw Ped Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	131	0	0	0	133	0	0	264	0	136	0	0	0	153	0	0	289	553
ADT	Percent Trucks = 0%				Percent Trucks = 0%				405	Percent Trucks = 0%				Percent Trucks = 0%				443	847
7:00 AM	0	0	0	0	0	2	0	0	2	0	1	0	0	0	1	0	0	2	4
7:15 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	3
7:30 AM	0	3	0	0	0	1	0	0	4	0	1	0	0	0	1	0	0	2	6
7:45 AM	0	7	0	0	0	2	0	0	9	0	9	0	0	0	0	0	0	9	18
8:00 AM	0	17	0	0	0	2	0	0	19	0	13	0	0	0	22	0	0	35	54
8:15 AM	0	15	0	0	0	5	0	0	20	0	5	0	0	0	2	0	0	7	27
8:30 AM	0	0	0	0	0	3	0	0	3	0	6	0	0	0	7	0	0	13	16
8:45 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	9	0	0	11	11
9:00 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	5	0	0	8	8
9:15 AM	0	4	0	0	0	1	0	0	5	0	5	0	0	0	3	0	0	8	13
9:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
9:45 AM	0	0	0	0	0	1	0	0	1	0	1	0	0	0	2	0	0	3	4
11:00 AM	0	0	0	0	0	2	0	0	2	0	2	0	0	0	0	0	0	2	4
11:15 AM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	4	4
11:45 AM	0	1	0	0	0	1	0	0	2	0	1	0	0	0	4	0	0	5	7
12:00 PM	0	2	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	2	4
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
12:30 PM	0	2	0	0	0	2	0	0	4	0	1	0	0	0	1	0	0	2	6
12:45 PM	0	2	0	0	0	0	0	0	2	0	1	0	0	0	2	0	0	3	5
1:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	4	4
1:15 PM	0	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	2	3
1:30 PM	0	1	0	0	0	2	0	0	3	0	0	0	0	0	3	0	0	3	6
1:45 PM	0	1	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	3	4
3:00 PM	0	5	0	0	0	35	0	0	40	0	41	0	0	0	6	0	0	47	87
3:15 PM	0	8	0	0	0	6	0	0	14	0	4	0	0	0	22	0	0	26	40
3:30 PM	0	10	0	0	0	15	0	0	25	0	2	0	0	0	17	0	0	19	44
3:45 PM	0	9	0	0	0	12	0	0	21	0	7	0	0	0	8	0	0	15	36
4:00 PM	0	5	0	0	0	9	0	0	14	0	10	0	0	0	4	0	0	14	28
4:15 PM	0	10	0	0	0	11	0	0	21	0	3	0	0	0	4	0	0	7	28
4:30 PM	0	2	0	0	0	5	0	0	7	0	2	0	0	0	4	0	0	6	13
4:45 PM	0	20	0	0	0	11	0	0	31	0	0	0	0	0	6	0	0	6	37
5:00 PM	0	5	0	0	0	1	0	0	6	0	3	0	0	0	3	0	0	6	12
5:15 PM	0	1	0	0	0	3	0	0	4	0	2	0	0	0	5	0	0	7	11
5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	3	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Notes:

WARRANT 1 - Conditions A & B



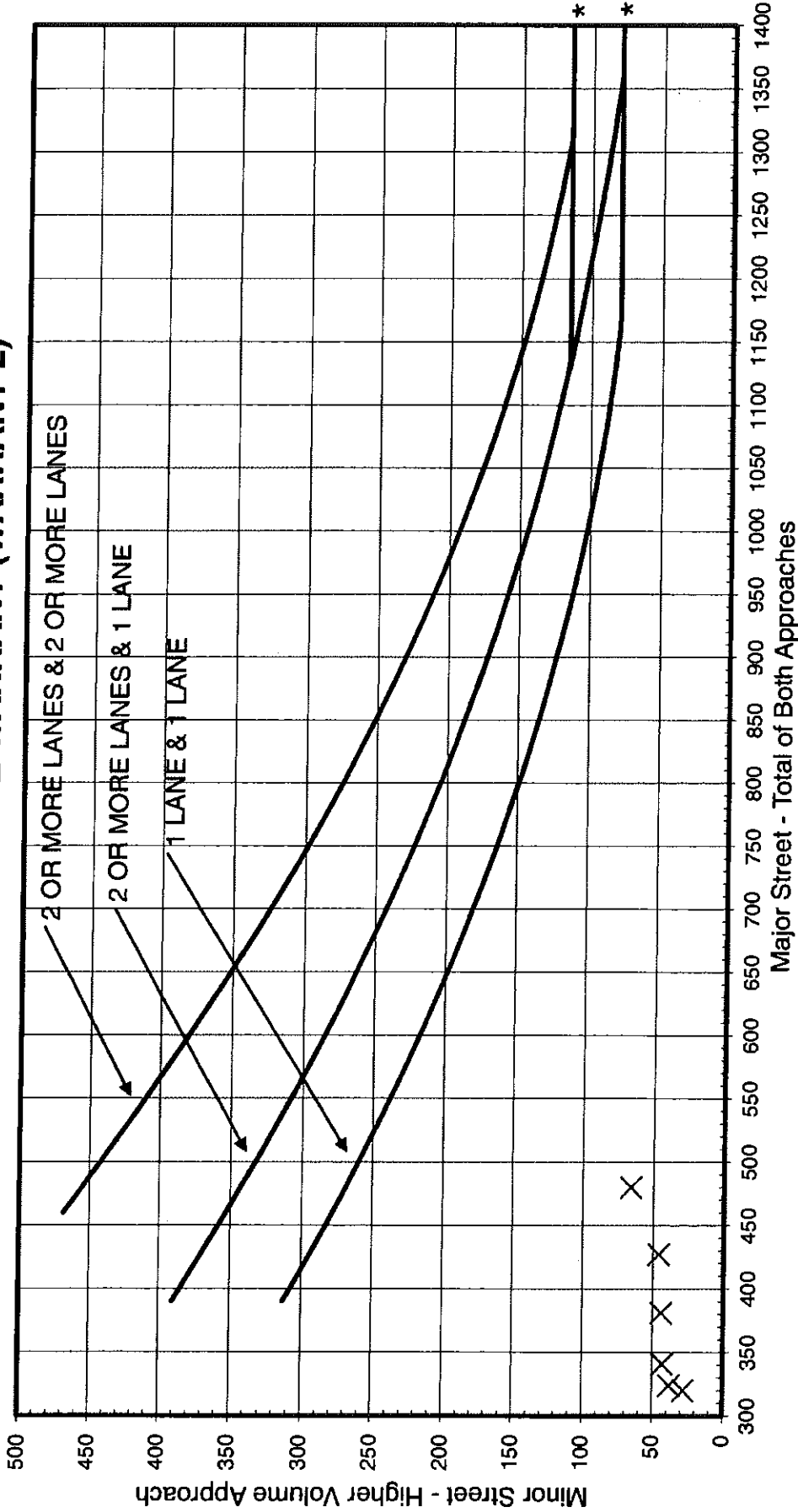
Major Road =	Shaw Ave	Lanes	1
Minor Road =	Allegheny Ave		1
Road Location =	Urban		
Condition A (100%) =	0 Hours Meet	Warrant Met?	No
Condition B (100%) =	0 Hours Meet		No
Condition A (80%) =	0 Hours Meet		No
Condition B (80%) =	0 Hours Meet		No

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	May 11, 2011	7:00 AM	10:00 AM	
Wednesday	May 11, 2011	11:00 AM	2:00 PM	
Wednesday	May 11, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



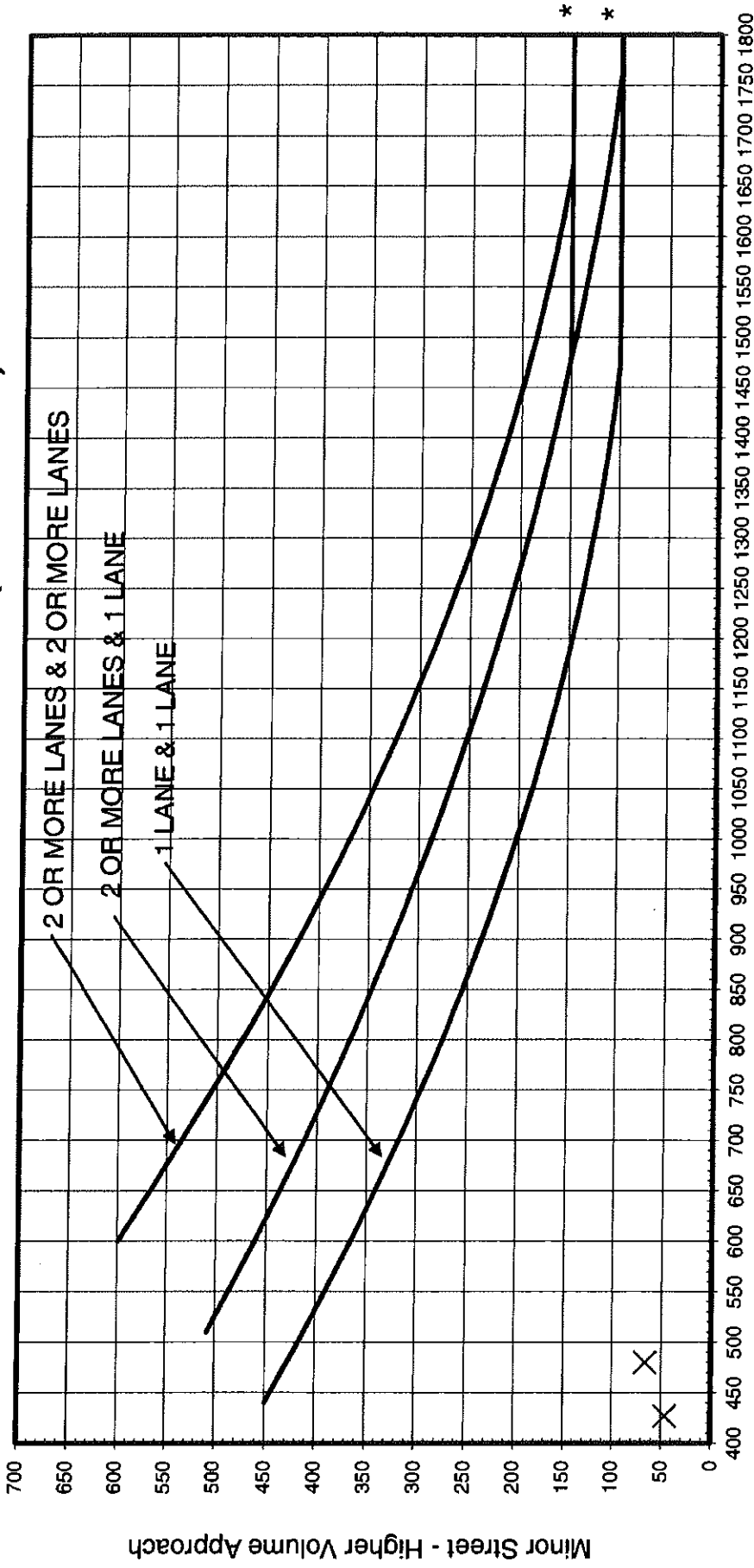
564 White Pond Drive
 Akron, OH 44320-1100
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 Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	May 11, 2011	7:00 AM	10:00 AM	
Wednesday	May 11, 2011	11:00 AM	2:00 PM	
Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Major Road = Shaw Ave	Lanes	1
Minor Road = Allegheny Ave		1
Road Location = Urban		

Warrant 2 (Urban) = 0 Hours Meet Warrant Met? NO

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



Day of Week	Date & Year	From	To	Weather
Wednesday	May 11, 2011	7:00 AM	10:00 AM	
Wednesday	May 11, 2011	11:00 AM	2:00 PM	
Wednesday	May 11, 2011	3:00 PM	6:00 PM	

Major Road =
 Minor Road =
 Road Location =

Lanes:
 Warrant Met?
 Warrant 3 (Urban) = Hours Meet

15-Minute Count Data

E. 133rd Street and Shaw Avenue

E. Cleveland, Ohio

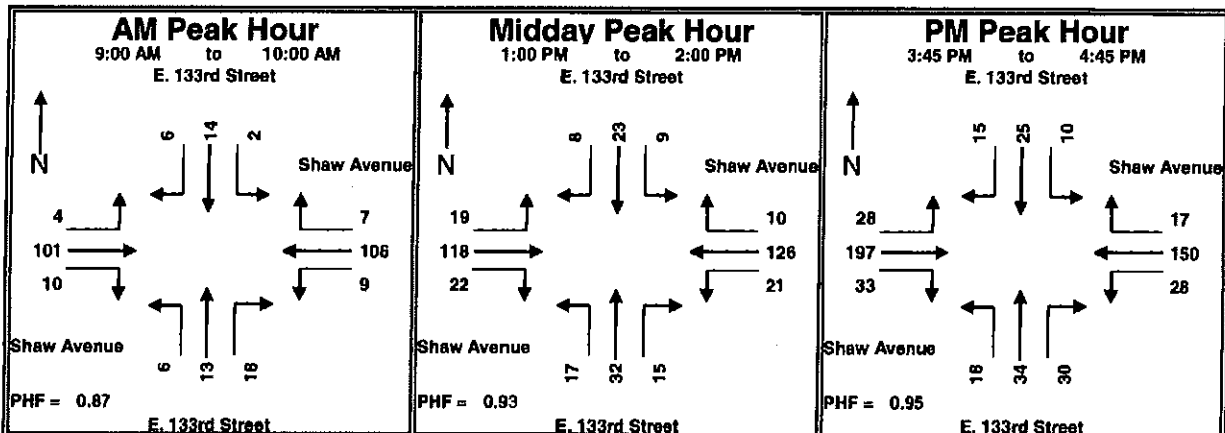


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.944	Wednesday	June 8, 2011	7:00 AM	10:00 AM	Hot
0.944	Wednesday	June 8, 2011	11:00 AM	2:00 PM	Hot
0.944	Wednesday	June 8, 2011	3:00 PM	6:00 PM	Hot

ADT Factor: 1.71
Intersection ID: 1

Start Time	E. 133rd Street Northbound				E. 133rd Street Southbound				Total South	Shaw Avenue Eastbound				Shaw Avenue Westbound				Total East	Total All Dlr.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	154	249	161	10	38	145	96	1	844	94	1144	176	13	137	1033	80	9	2664	3508
ADT	248	401	259	16	61	235	155	2	1360	151	1843	284	21	221	1684	129	14	4291	5651
	Percent Trucks = 2%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 1%					



Notes:

15-Minute Count Data

E. 133rd Street and Shaw Avenue

E. Cleveland, Ohio



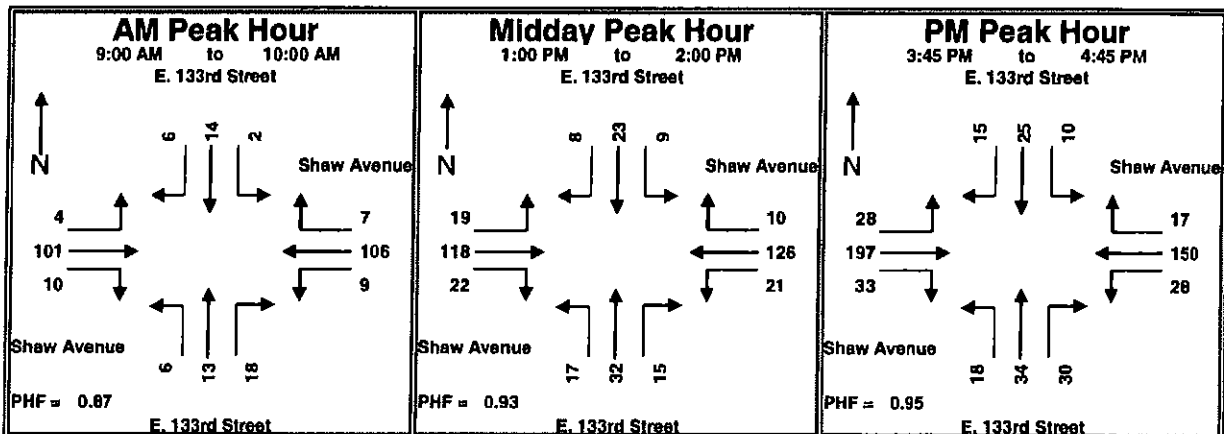
564 White Pond Drive
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Tel: 330.836.9111
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Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.944	Wednesday	June 8, 2011	7:00 AM	10:00 AM	Hot
0.944	Wednesday	June 8, 2011	11:00 AM	2:00 PM	Hot
0.944	Wednesday	June 8, 2011	3:00 PM	6:00 PM	Hot

ADT Factor: 1.71

Intersection ID: 1

Start Time	E. 133rd Street Northbound				E. 133rd Street Southbound				Total North	Shaw Avenue Eastbound				Shaw Avenue Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	154	249	161	10	38	146	96	1	844	94	1144	176	13	137	1033	80	9	2664	3508
	Percent Trucks = 2%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	248	401	259	16	61	235	155	2	1360	151	1843	284	21	221	1664	129	14	4291	5651



Notes:

Shaw/E. 133
 Bus Counts
 June 8, 2011

File Name : 2056-6-8-20
 Site Code : 06082011
 Start Date : 06/08/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
06:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
09:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	
09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	

05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	1	2	0	0	2	5	0	0
Approch %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	66.7	0.0	0.0	28.6	71.4	0.0	0.0
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	20.0	0.0	0.0	20.0	50.0	0.0	0.0

SIGNAL WARRANT

INTERSECTION: E. 133rd Street and Shaw Avenue
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N:1 S:1 E:2 W:2
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga RITE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____

SEC'T: _____
 CKD BY: _____



SKETCH OR DRAWING _____
 VEHICULAR VOLUME COUNT _____
 TRAFFIC PROJECTION _____
 ACCIDENT DATA _____
 PEDESTRIAN COUNT _____
 GAP ANALYSIS _____

ADDITIONAL ITEMS ATTACHED
 SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

OTHER (DESCRIBE): _____

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES				CONDITION A						CONDITION B						WARRANT #2	WARRANT #3
	2-WAY		1-WAY		100%		80%		100%		80%		100%		FOUR HOUR	PEAK HOUR		
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR				
NORM	1	1	1	1	500	150	400	120	750	75	600	60						
70%	1	1	1	1	600	200	480	160	900	100	720	80						
	2+				350	105	280	84	525	53	420	42						
					420	140	336	112	630	70	504	56						
MID-1AM	0	0	0	0														
1AM-2AM	0	0	0	0														
2AM-3AM	0	0	0	0														
3AM-4AM	0	0	0	0														
4AM-5AM	0	0	0	0														
5AM-6AM	0	0	0	0														
6AM-7AM	0	0	0	0														
7AM-8AM	130	48	15	15														
8AM-9AM	198	65	21	21														
9AM-10AM	237	37	22	22														
10AM-11AM	0	0	0	0														
11AM-NOON	263	63	37	37														
NOON-1PM	314	55	30	30														
1PM-2PM	316	64	40	40														
2PM-3PM	0	0	0	0														
3PM-4PM	363	67	34	34														
4PM-5PM	440	88	47	47														
5PM-6PM	403	77	34	34														
6PM-7PM	0	0	0	0														
7PM-8PM	0	0	0	0														
8PM-9PM	0	0	0	0														
9PM-10PM	0	0	0	0														
10PM-11PM	0	0	0	0														
11PM-MID	0	0	0	0														
HOURS MET				0	0	0	0	0	0	0	0	0	0	0	0	0		
WARRANT SATISFIED?				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

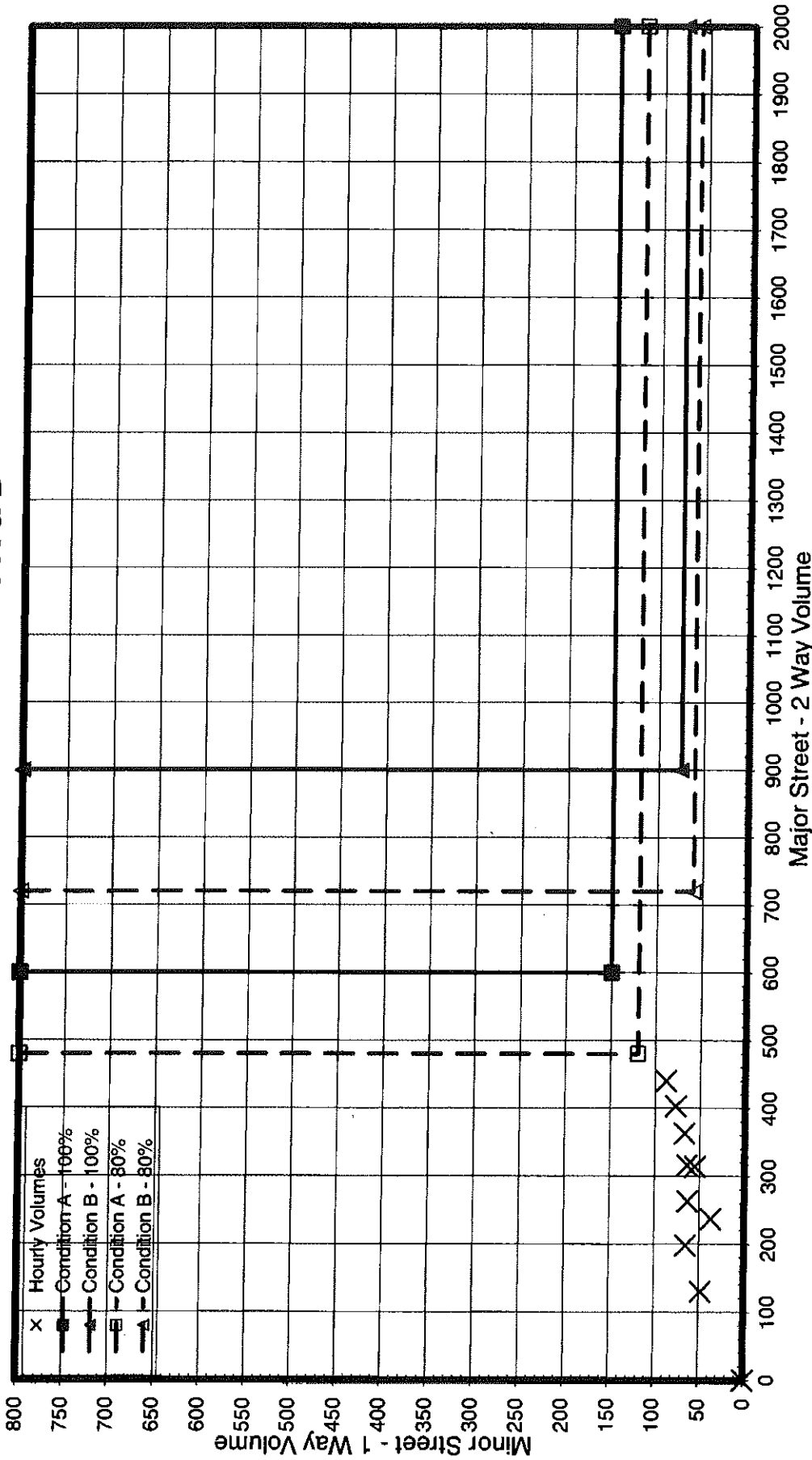
WARRANT #7 (CRASH EXPERIENCE)
 Adequacy of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B



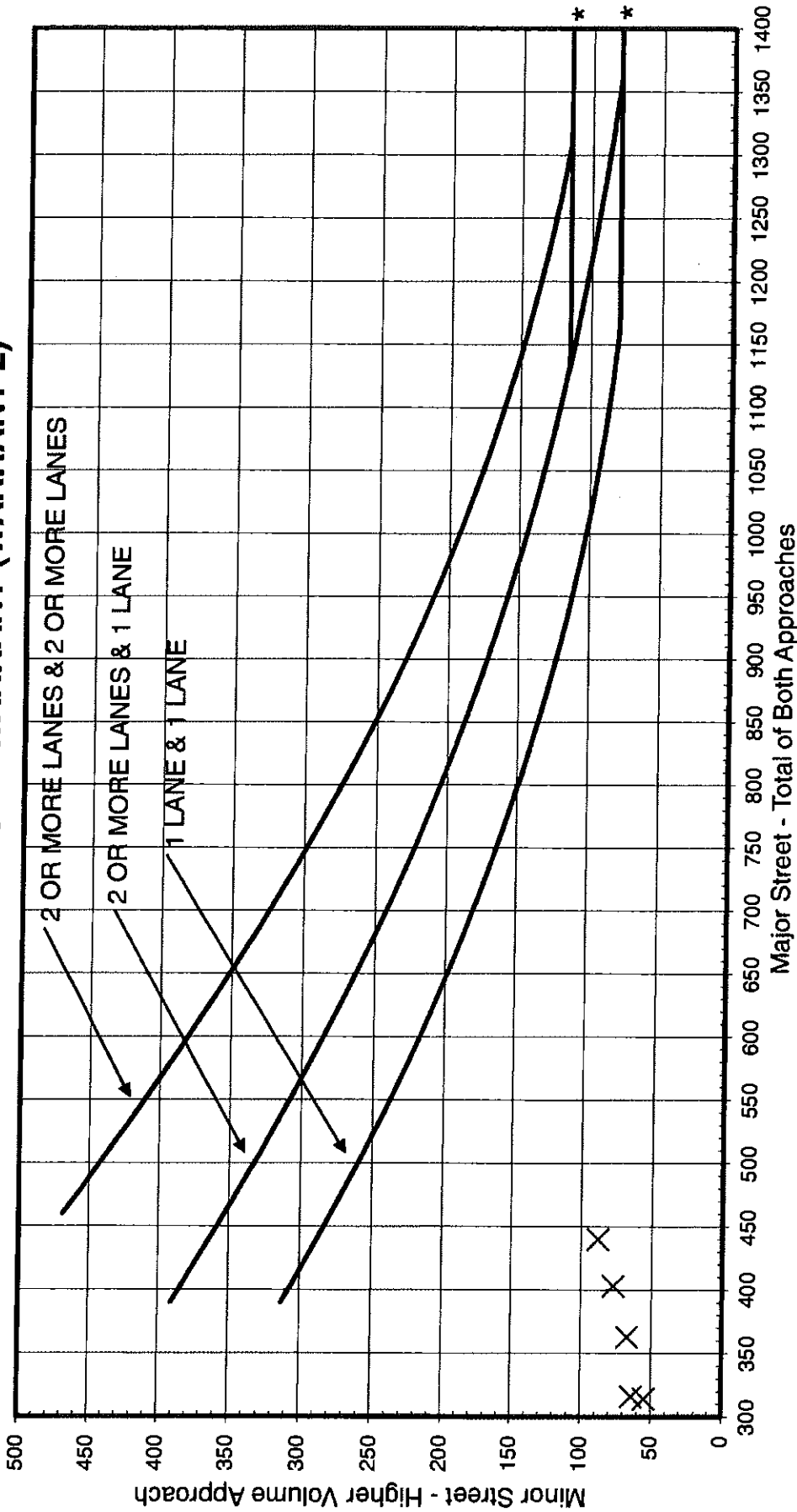
Major Road =	Shaw Avenue	Lanes	2
Minor Road =	E. 133rd Street		1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Met	No	
Condition B (100%) =	0 Hours Met	No	
Condition A (80%) =	0 Hours Met	No	
Condition B (80%) =	0 Hours Met	No	

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 8, 2011	7:00 AM	10:00 AM	Hot
Wednesday	June 8, 2011	11:00 AM	2:00 PM	Hot
Wednesday	June 8, 2011	3:00 PM	6:00 PM	Hot



564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

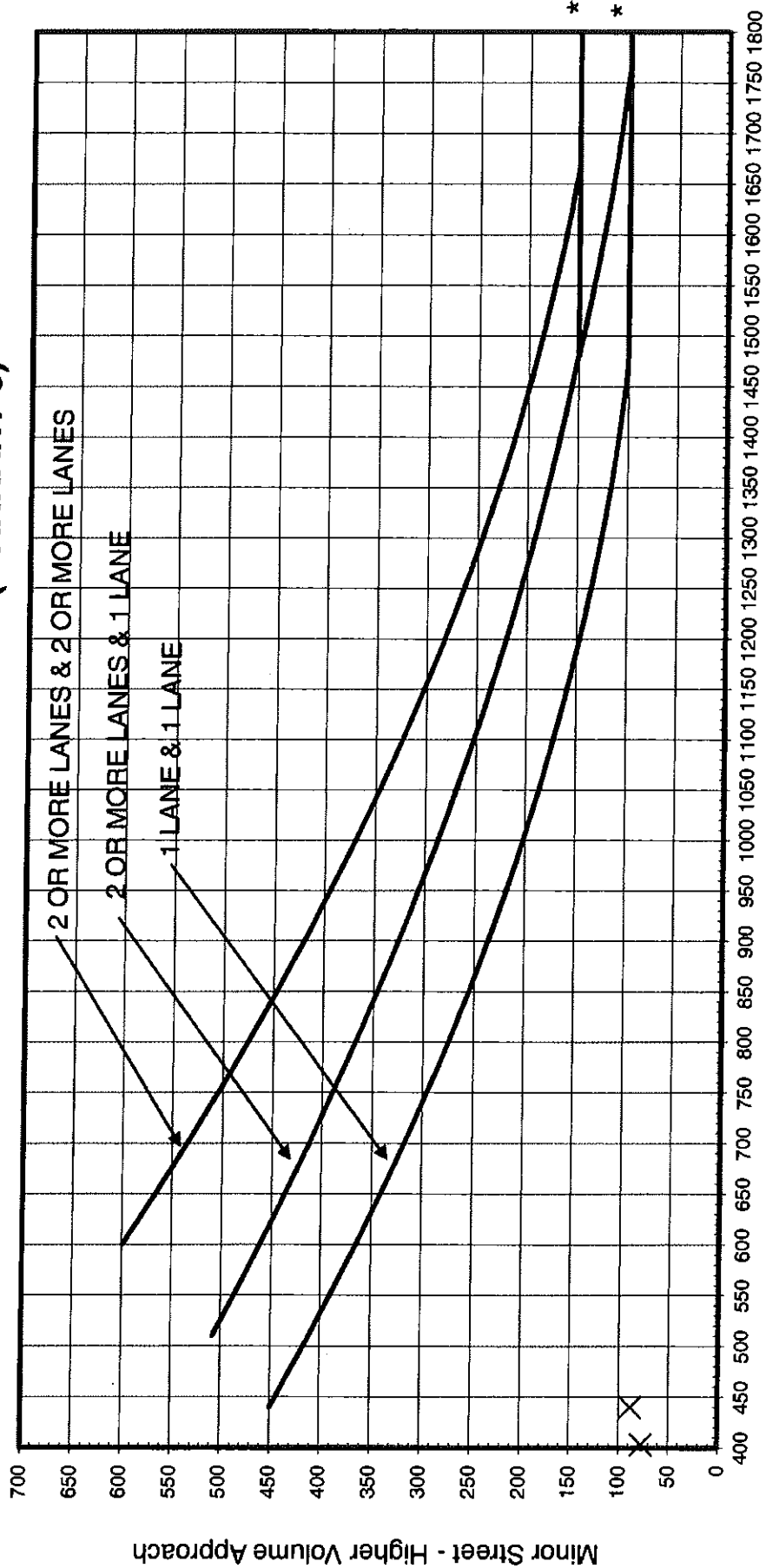
Warrant 2 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 8, 2011	7:00 AM	10:00 AM	Hot
Wednesday	June 8, 2011	11:00 AM	2:00 PM	Hot
Wednesday	June 8, 2011	3:00 PM	6:00 PM	Hot



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Minor Street - Higher Volume Approach

Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes

Minor Road = Lanes

Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 8, 2011	7:00 AM	10:00 AM	Hot
Wednesday	June 8, 2011	11:00 AM	2:00 PM	Hot
Wednesday	June 8, 2011	3:00 PM	6:00 PM	Hot

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data

Coventry Rd and Superior Ave



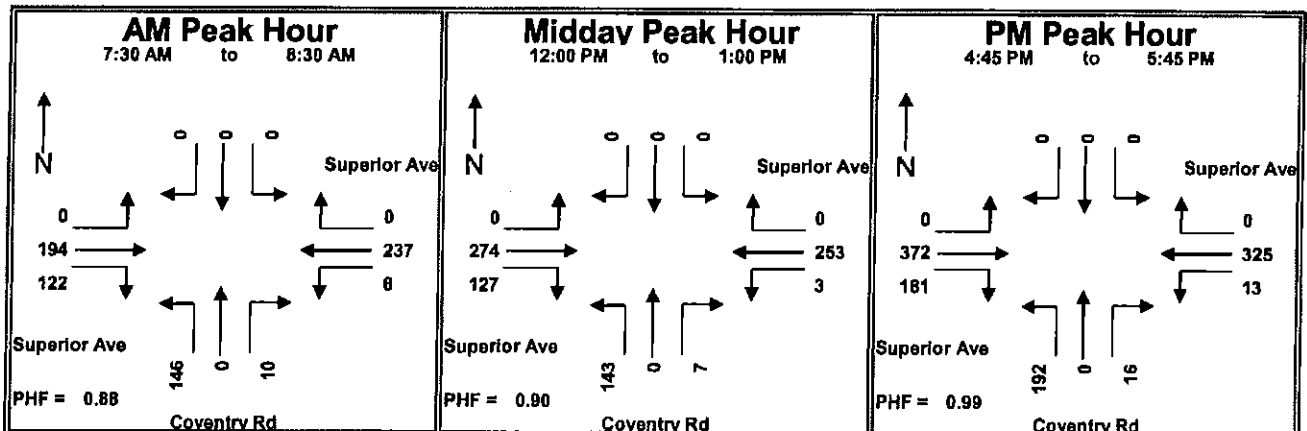
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 2, 2011	7:00 AM	10:00 AM	
0.886	Thursday	June 2, 2011	11:00 AM	2:00 PM	
0.886	Thursday	June 2, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Coventry Rd Northbound				Southbound				Total North South	Superior Ave Eastbound				Superior Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	1239	5	84	4	0	0	0	0	1328	1	2300	1243	30	55	2189	12	17	5770	7098
ADT	1867	8	127	6	0	0	0	0	2001	2	3466	1828	45	83	3298	18	26	8694	10695
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 1%					



Notes:

Superior/Coventry
 Bus Counts
 June 2, 2011

File Name : 2304-6-2-20
 Site Code : 00006211
 Start Date : 06/02/2011
 Page No : 1

Groups Printed- Bank 2

Start Time Factor	From North				From East				From South				From West				Int. Tot
	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	
07:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Total	0	0	0	0	0	2	0	0	0	0	2	0	0	1	0	0	0
08:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Total	0	0	0	0	0	2	0	0	0	0	1	0	2	2	0	0	0
09:00 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
09:15 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
09:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	5	0	0	0	0	0	0	0	3	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
11:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	5	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
12:45 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	5	0	0	0	0	0	0	0	2	0	0	0
01:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	2	0	0	1	0	1	0	1	3	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
04:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
Total	0	0	0	0	0	1	0	0	0	0	1	0	1	3	0	0	0

Superior/Coventry
 Bus Counts
 June 2, 2011

File Name : 2304-6-2-20
 Site Code : 00006211
 Start Date : 06/02/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot.
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	
Grand Total	0	0	0	0	0	23	0	0	1	0	5	0	4	23	0	0	5
Apprch %	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	16.7	0.0	83.3	0.0	14.8	85.2	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	41.1	0.0	0.0	1.8	0.0	8.9	0.0	7.1	41.1	0.0	0.0	

SIGNAL WARRANT



INTERSECTION: Coventry Rd and Superior Ave
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N:0 S:1 E:3 W:3
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION CALC. BY: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED

SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 150 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

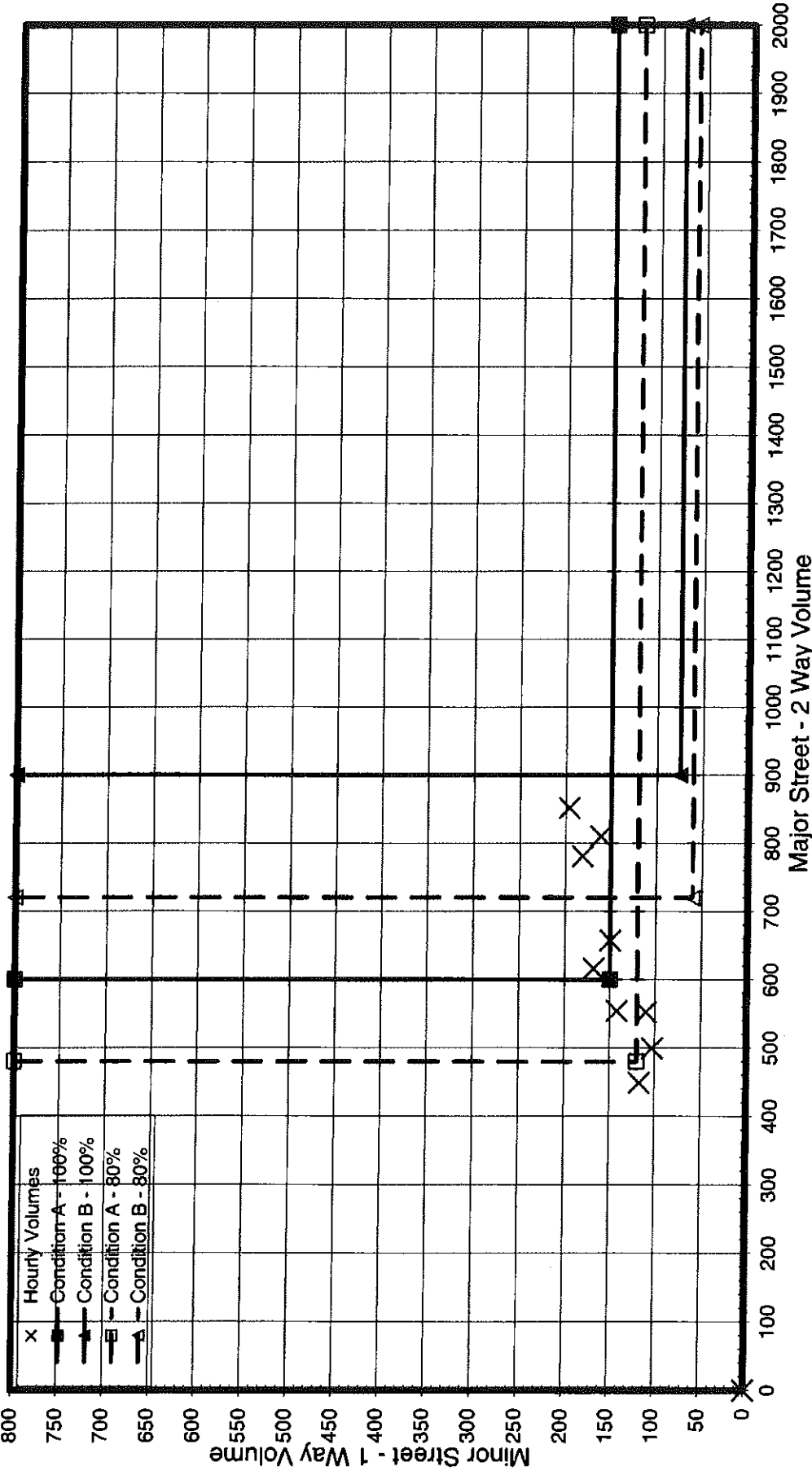
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT #2		WARRANT #3		
	2-WAY	1-WAY	100%		80%		100%		80%		100%		MAJOR	MINOR	MAJOR	MINOR	FOUR HOUR	PEAK HOUR	
			MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR									
NORM	2+	X	500	150	400	120	750	75	600	60									
70%	1		600	200	480	160	900	100	720	80									
	2+		350	105	280	84	525	53	420	42									
			420	140	336	112	630	70	504	56									
MID-1AM	0	0																	
1AM-2AM	0	0																	
2AM-3AM	0	0																	
3AM-4AM	0	0																	
4AM-5AM	0	0																	
5AM-6AM	0	0																	
6AM-7AM	0	0																	
7AM-9AM	449	117																	
8AM-9AM	554	142				X	X												
9AM-10AM	499	103				X	X												
10AM-11AM	0	0																	
11AM-NOON	552	110				X	X												
NOON-1PM	657	150				X	X												
1PM-2PM	616	168				X	X												
2PM-3PM	0	0																	
3PM-4PM	781	181				X	X												
4PM-5PM	810	161				X	X												
5PM-6PM	852	196				X	X												
6PM-7PM	0	0				X	X												
7PM-8PM	0	0																	
8PM-9PM	0	0																	
9PM-10PM	0	0																	
10PM-11PM	0	0																	
11PM-MID	0	0																	
HOURS MET			5	NO	6	NO	0	NO	3	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
WARRANT SATISFIED?																			

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

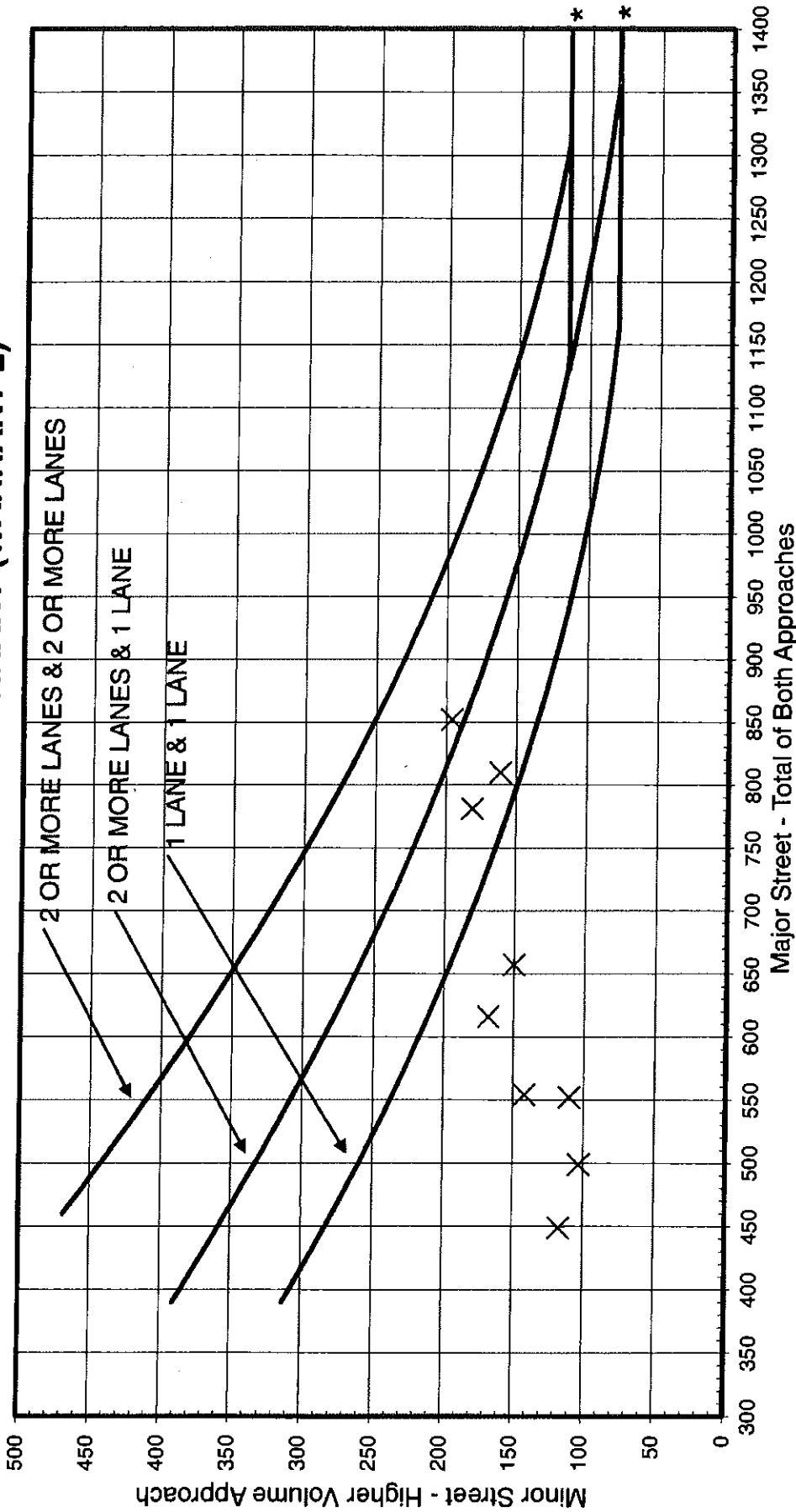


Major Road =	Superior Ave	Lanes	3
Minor Road =	Coventry Rd		1
Road Location =	Urban	Warrant Met?	
Condition A (100%) =	5 Hours Meet	Condition A (100%) =	No
Condition B (100%) =	0 Hours Meet	Condition B (100%) =	No
Condition A (80%) =	6 Hours Meet	Condition A (80%) =	No
Condition B (80%) =	3 Hours Meet	Condition B (80%) =	No

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 2, 2011	7:00 AM	10:00 AM	
Thursday	June 2, 2011	11:00 AM	2:00 PM	
Thursday	June 2, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

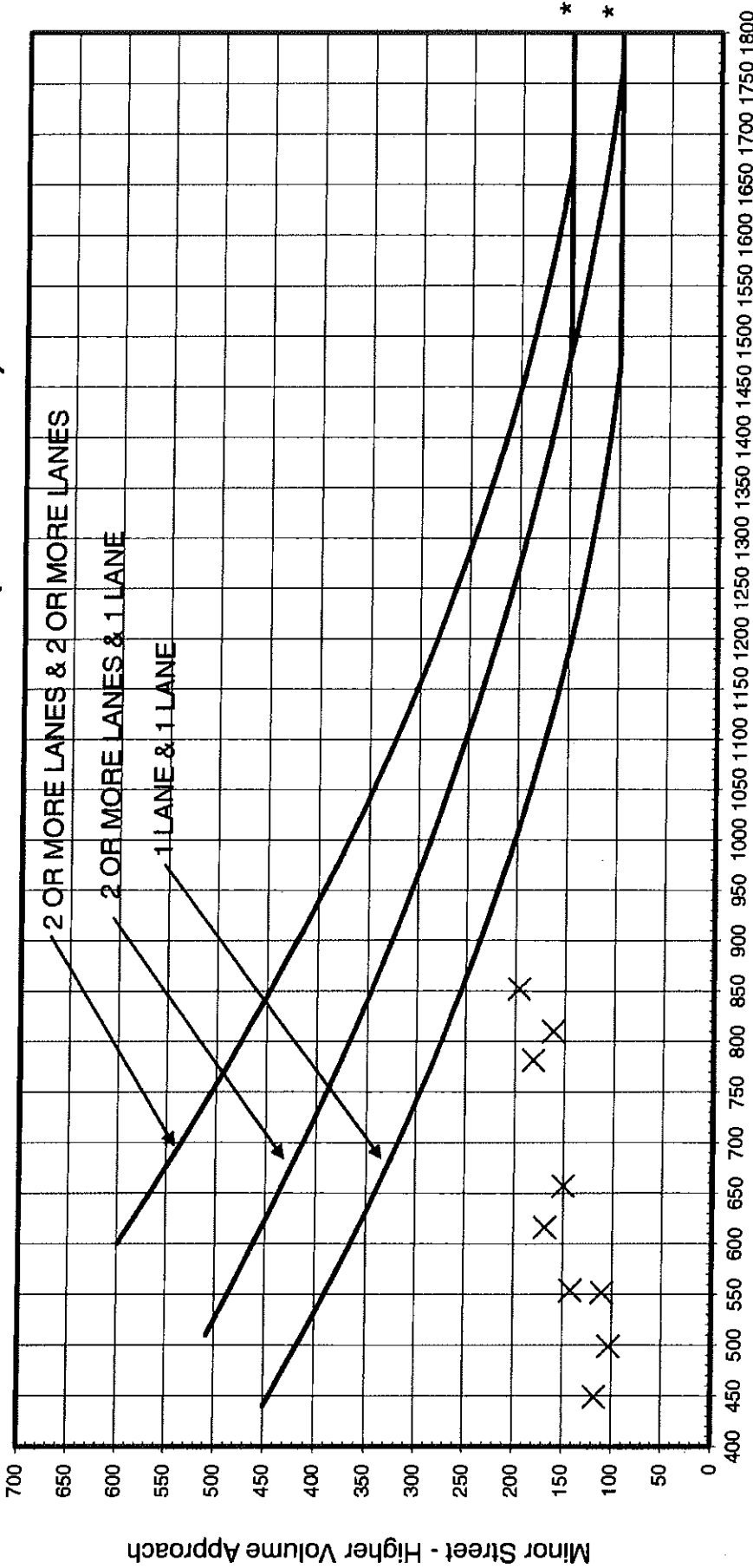
Major Road = Superior Ave Lanes = 3
 Minor Road = Coventry Rd Lanes = 1
 Road Location = Urban

Warrant Met? 1 Hours Met NO

Day of Week	Date & Year	From	To	Weather
Thursday	June 2, 2011	7:00 AM	10:00 AM	
Thursday	June 2, 2011	11:00 AM	2:00 PM	
Thursday	June 2, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
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 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Superior Ave	Lanes	3
Minor Road =	Coventry Rd		1
Road Location =	Urban		

Warrant 3 (Urban) = 0 Hours Meet NO Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 2, 2011	7:00 AM	10:00 AM	
Thursday	June 2, 2011	11:00 AM	2:00 PM	
Thursday	June 2, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data

Eddington Rd and Superior Ave



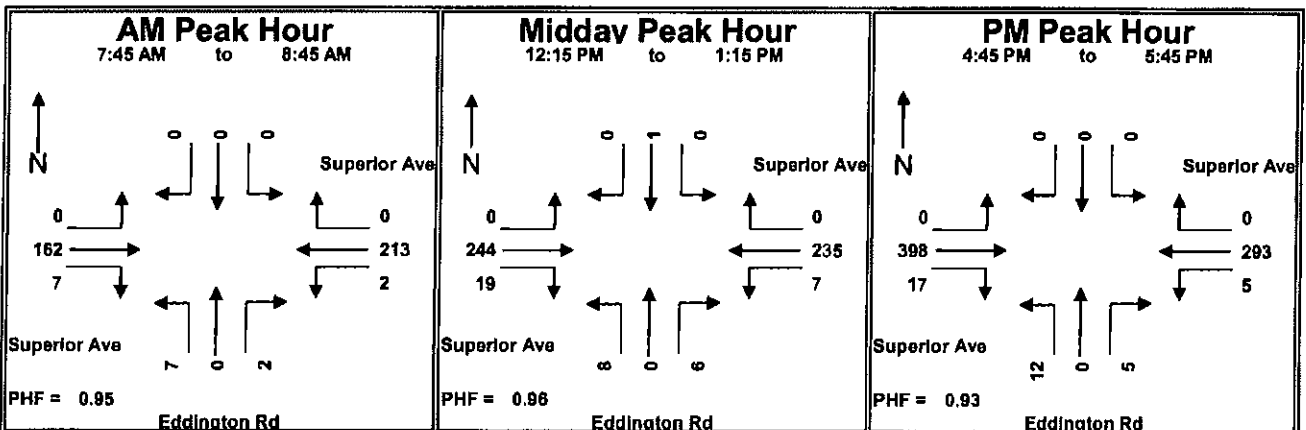
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 7, 2011	7:00 AM	10:00 AM	
0.921	Tuesday	June 7, 2011	11:00 AM	2:00 PM	
0.921	Tuesday	June 7, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Eddington Rd Northbound				Southbound				Total North South	Superior Ave Eastbound				Superior Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	60	0	41	1	0	1	0	0	102	0	2086	90	22	35	1950	0	17	4161	4263
	Percent Trucks = 1%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 1%					
ADT	94	0	64	2	0	2	0	0	160	0	3267	141	34	55	3054	0	27	6517	6677



Notes:

Superior/Eddington
Bus Counts
June 7, 2011

File Name : 2304-06-07-2011 1 m
Site Code : 00006711
Start Date : 06/07/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
08:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	0	1	0	0	0	0	3	0	0	0
09:00 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0
09:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
09:30 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	6	0	0	0	0	0	0	0	2	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
11:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
01:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	13	0	0	1	0	0	0	0	10	0	0	0
Apprch %	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
Total %	0.0	0.0	0.0	0.0	0.0	54.2	0.0	0.0	4.2	0.0	0.0	0.0	0.0	41.7	0.0	0.0	0.0

Superior/Eddington
 Bus Counts
 June 7, 2011

File Name : 2304-06-07-2011 2 m
 Site Code : 00006711
 Start Date : 06/07/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	
03:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	
03:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	2	1	0	1	0	0	0	0	6	0	0	1
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
05:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	3	1	0	1	0	0	0	0	10	0	0	1
Approch %	0.0	0.0	0.0	0.0	0.0	75.0	25.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	20.0	6.7	0.0	6.7	0.0	0.0	0.0	0.0	66.7	0.0	0.0	

SIGNAL WARRANT



INTERSECTION: Edlington Rd and Superior Ave
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 0 S: 1 E: 3 W: 3
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION SEC: _____
 CALC. BY: _____ CKD BY: _____

ADDITIONAL ITEMS ATTACHED

- SPEED DATA
- DELAY ANALYSIS
- TIME/SPACE DIAGRAM
- GROUND PHOTOGRAPHS
- AERIAL PHOTOGRAPHS
- DOCUMENTATION/EXPLANATION

OTHER DESCRIBE: _____

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES				CONDITION A						CONDITION B						WARRANT #1		WARRANT #2		WARRANT #3			
	2-WAY		1-WAY		100%		80%		100%		80%		100%		80%		100%		80%		100%		80%	
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR
NORM	2+	X			500	150	400	120	750	100	75	600	60											
70%	2+				350	105	280	84	525	53	420	42												
	MID-1AM	0	0	0																				
	1AM-2AM	0	0	0																				
	2AM-3AM	0	0	0																				
	3AM-4AM	0	0	0																				
	4AM-5AM	0	0	0																				
	5AM-6AM	0	0	0																				
	6AM-7AM	0	0	0																				
	7AM-8AM	334	7	0																				
	8AM-9AM	365	5	0																				
	9AM-10AM	322	5	0																				
	10AM-11AM	0	0	0																				
	11AM-NOON	383	6	0																				
	NOON-1PM	487	16	1																				
	1PM-2PM	486	19	0																				
	2PM-3PM	130	4	0																				
	3PM-4PM	626	16	0																				
	4PM-5PM	611	14	0																				
	5PM-6PM	547	13	0																				
	6PM-7PM	0	0	0																				
	7PM-8PM	0	0	0																				
	8PM-9PM	0	0	0																				
	9PM-10PM	0	0	0																				
	10PM-11PM	0	0	0																				
	11PM-MID	0	0	0																				
	HOURS MET				0				0				0						0					0
	WARRANT SATISFIED?				NO				NO				NO						NO					NO

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 60% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

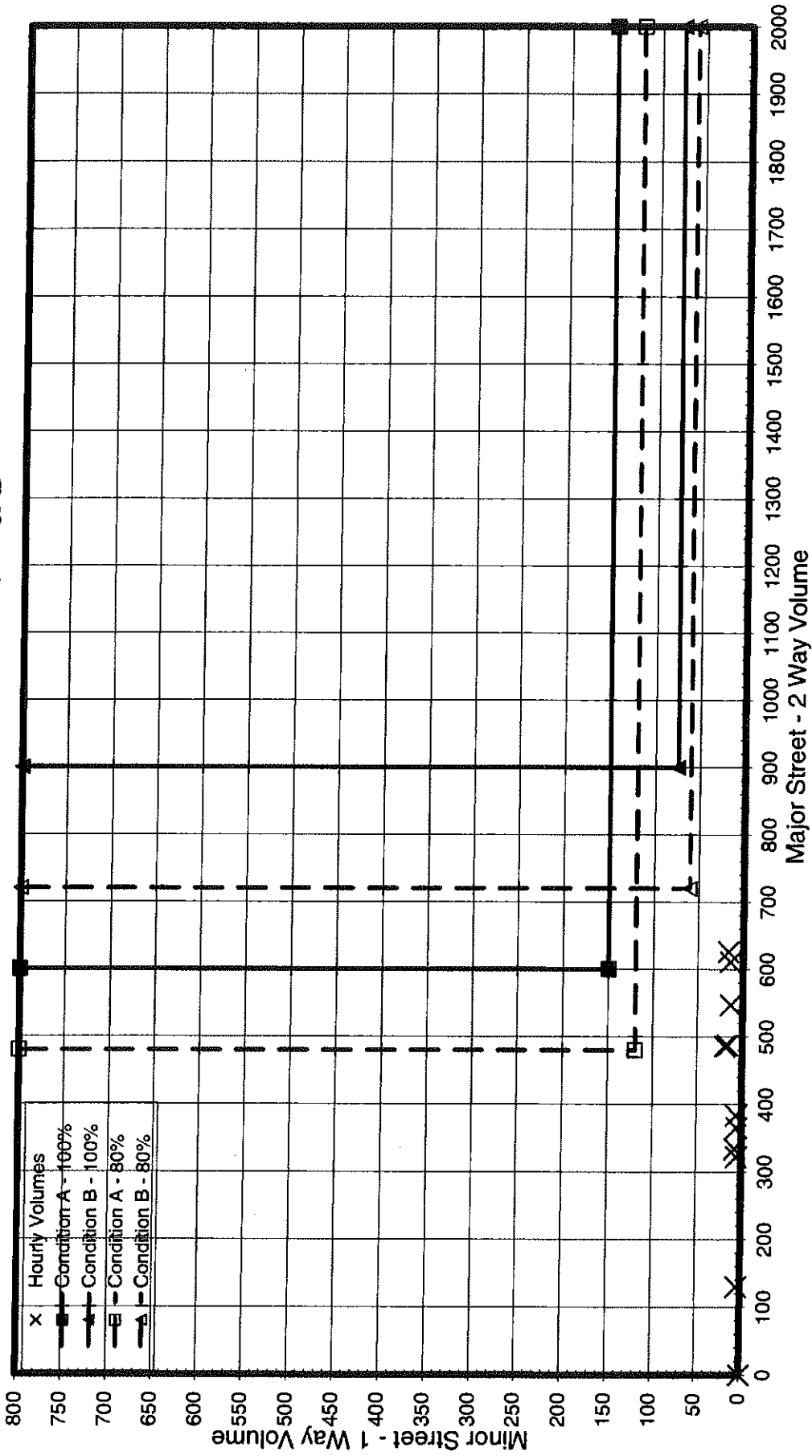
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 65 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B



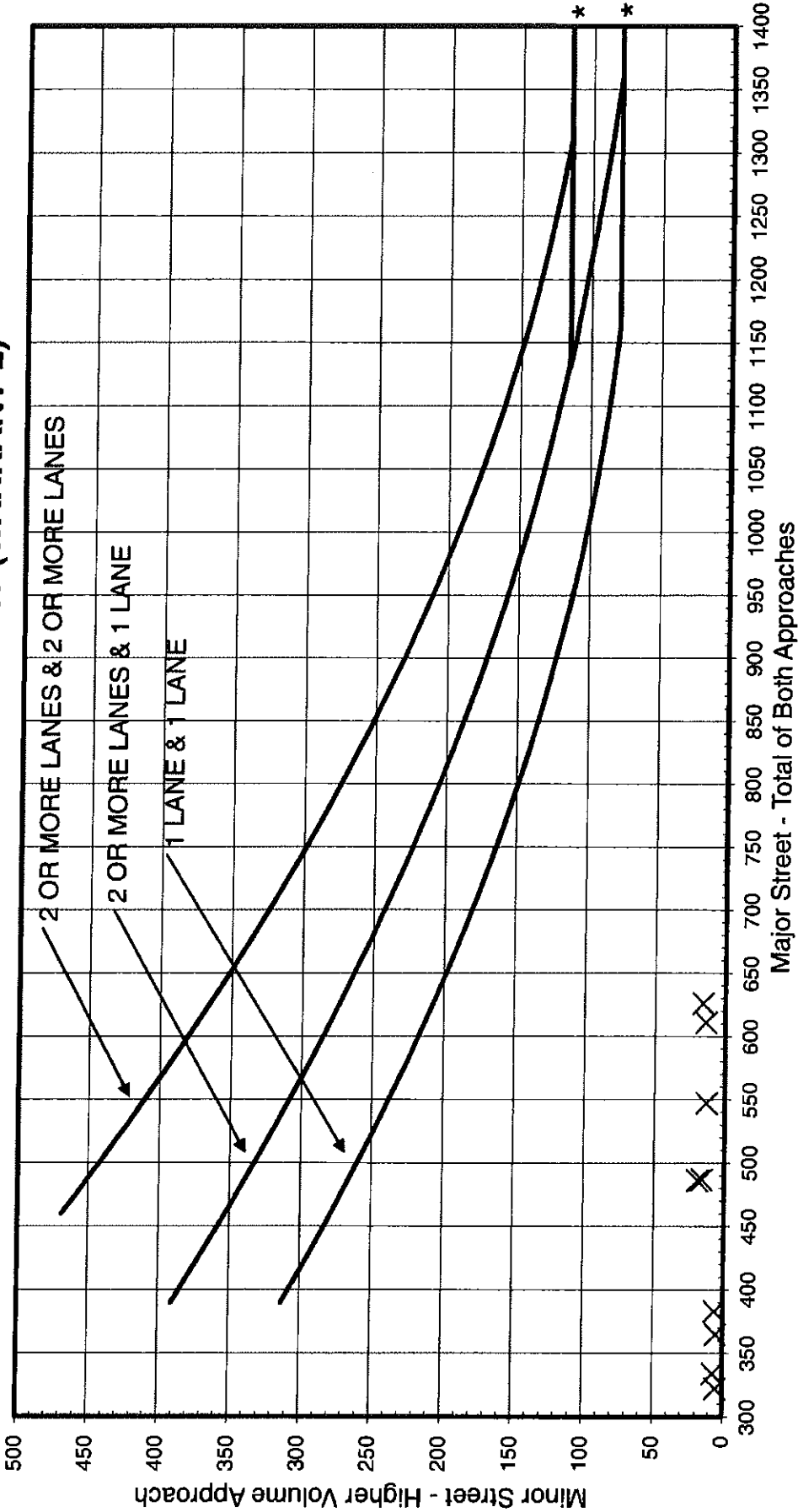
Major Road = Superior Ave	Lanes = 3
Minor Road = Eddington Rd	1
Road Location = Urban	
Condition A (100%) = 0 Hours Meet	Warrant Met? No
Condition B (100%) = 0 Hours Meet	Warrant Met? No
Condition A (80%) = 0 Hours Meet	Warrant Met? No
Condition B (80%) = 0 Hours Meet	Warrant Met? No

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 7, 2011	7:00 AM	10:00 AM	
Tuesday	June 7, 2011	11:00 AM	2:00 PM	
Tuesday	June 7, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Superior Ave	Lanes	3
Minor Road = Edgington Rd		1
Road Location = Urban		

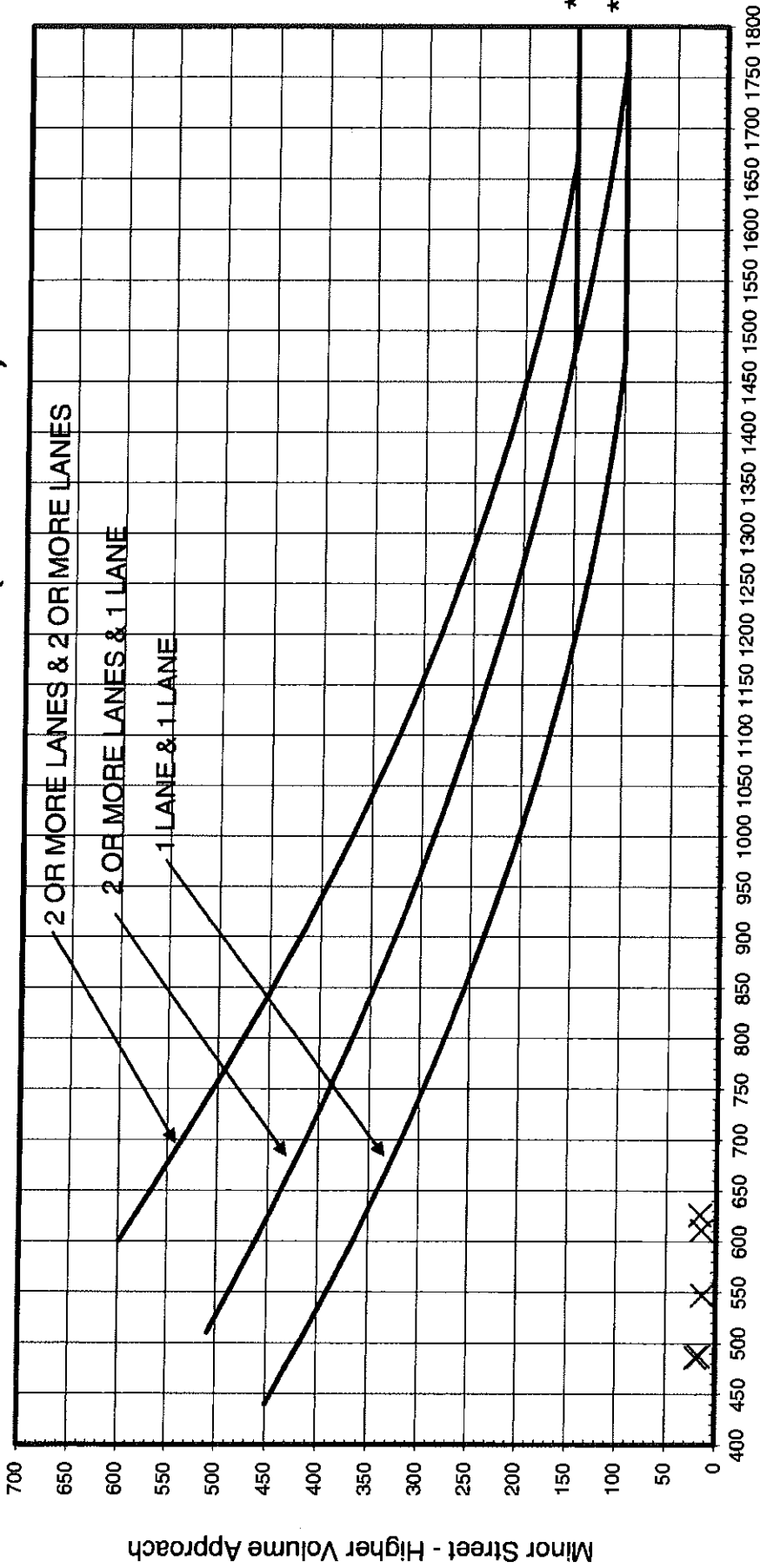
Warrant 2 (Urban) = 0 Hours Meet Warrant Met? NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 7, 2011	7:00 AM	10:00 AM	
Tuesday	June 7, 2011	11:00 AM	2:00 PM	
Tuesday	June 7, 2011	3:00 PM	6:00 PM	



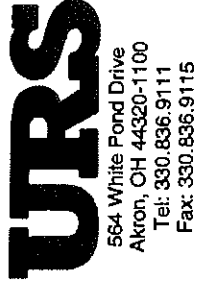
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



Day of Week	Date & Year	From	To	Weather
Tuesday	June 7, 2011	7:00 AM	10:00 AM	
Tuesday	June 7, 2011	11:00 AM	2:00 PM	
Tuesday	June 7, 2011	3:00 PM	6:00 PM	

Major Road = Superior Ave
 Minor Road = Eddington Rd
 Road Location = Urban

Lanes: 3

Warrant Met? 0 Hours Meet NO

15-Minute Count Data Emily St and Superior Rd



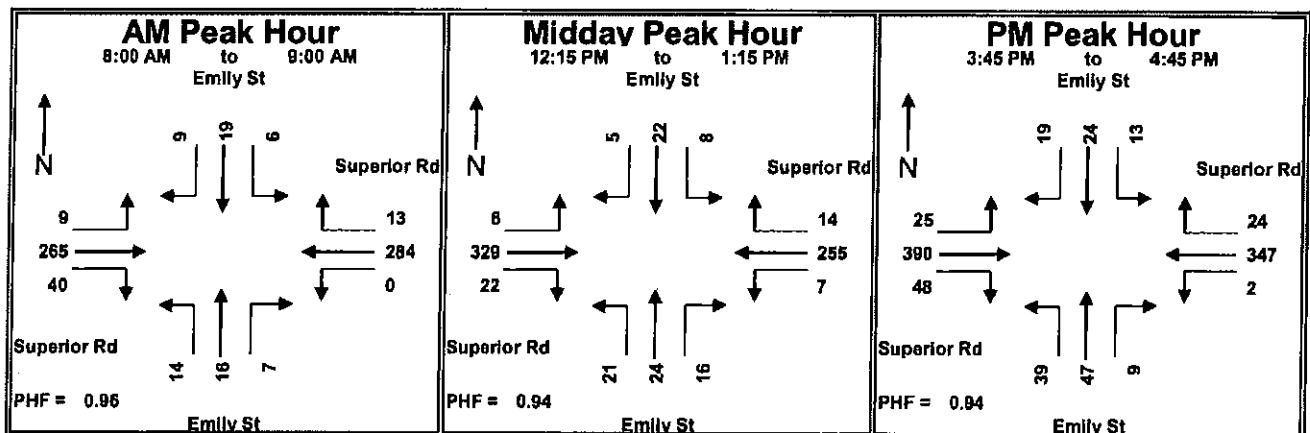
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 31, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 31, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 31, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Emily St Northbound				Emily St Southbound				Total North South	Superior Rd Eastbound				Superior Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	206	222	75	5	78	169	96	7	846	91	2806	265	29	19	2503	116	34	5800	6646
ADT	322	347	117	8	122	264	150	11	1324	142	4390	415	45	30	3916	181	53	9075	10399
	Percent Trucks = 1%				Percent Trucks = 2%					Percent Trucks = 1%				Percent Trucks = 1%					



Notes:

Superior/Emily/RTA
Bus Counts
May 31, 2011

File Name : 2056-5-31-20
Site Code : 05312011
Start Date : 05/31/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot.
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
09:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	3	0	0	
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	1	0	0	0	0	0	0	0	0	0	0	1	6	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	

Superior/Emily/RTA
 Bus Counts
 May 31, 2011

File Name : 2056-5-31-20
 Site Code : 05312011
 Start Date : 05/31/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	
Grand Total	0	1	0	0	0	0	0	0	0	0	0	0	2	40	0	0	4
Approch %	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	95.2	0.0	0.0	
Total %	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	93.0	0.0	0.0	

15-Minute Count Data

Emily Ped and Superior Ped



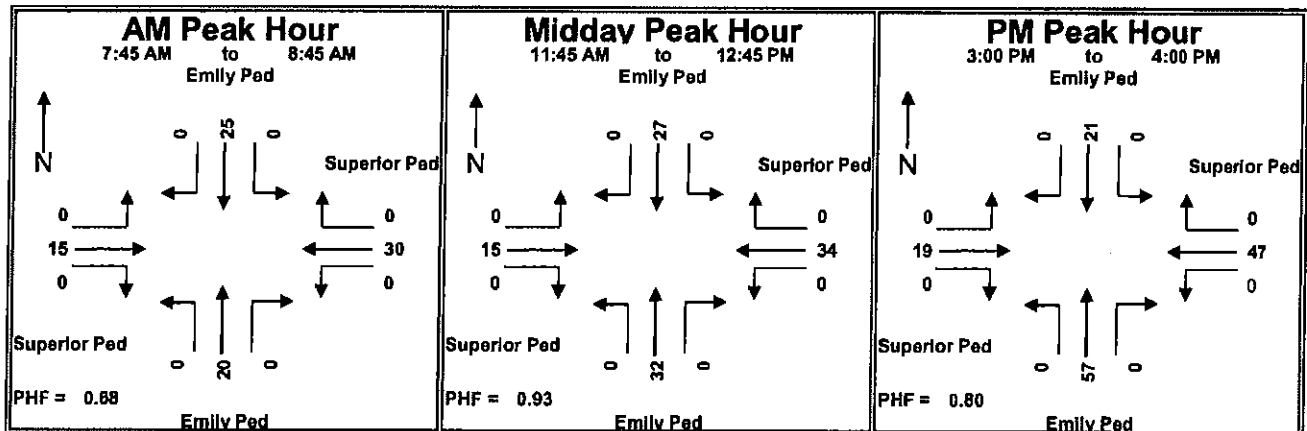
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.920	Tuesday	May 31, 2011	7:00 AM	10:00 AM	
0.920	Tuesday	May 31, 2011	11:00 AM	2:00 PM	
0.920	Tuesday	May 31, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Emily Ped Northbound				Emily Ped Southbound				Total North South	Superior Ped Eastbound				Superior Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	272	0	0	0	157	0	0	429	0	128	0	0	0	271	0	0	399	828
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	426	0	0	0	246	0	0	671	0	200	0	0	0	424	0	0	624	1296



Notes:

SIGNAL WARRANT



INTERSECTION: Emily St. and Superior Rd
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 2 W: 2
 PRESENTLY SIGNALIZED? Yes
 MAINTAINING AGENCY: DOES 70% WARRANT APPLY? NO

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED

- _____ SPEED DATA
- _____ DELAY ANALYSIS
- _____ TIME/SPACE DIAGRAM
- _____ GROUND PHOTOGRAPHS
- _____ AERIAL PHOTOGRAPHS
- _____ DOCUMENTATION/EXPLANATION

OTHER (DESCRIBE):

COND. NO. OF LANE	NO. OF MAJOR ST. LANES	MINOR ST. LANES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3	
			1-WAY	2-WAY	CONDITION A		CONDITION B		100%		80%		FOUR HOUR	PEAK HOUR
			1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR		
NORM	2+	X			500	150	400	120	750	75	600	60		
	1				600	200	480	160	900	100	720	80		
70%	2+				350	105	280	84	525	53	420	42		
					420	140	336	112	630	70	504	56		
MID-1AM			0	0										
1AM-2AM			0	0										
2AM-3AM			0	0										
3AM-4AM			0	0										
4AM-5AM			0	0										
5AM-6AM			0	0										
6AM-7AM			0	0										
7AM-9AM			477	18	44									
8AM-9AM			611	37	34	X								
9AM-10AM			488	18	26	X								
10AM-11AM			0	0	3									
11AM-NOON			585	52	26	X								
NOON-1PM			615	55	35	X								
1PM-2PM			615	56	37	X								
2PM-3PM			0	0	0									
3PM-4PM			786	84	46	X								
4PM-5PM			823	82	57	X				X	X	X		
5PM-6PM			820	101	38	X				X	X	X		
6PM-7PM			0	0	0					X	X	X		
7PM-8PM			0	0	0									
8PM-9PM			0	0	0									
9PM-10PM			0	0	0									
10PM-11PM			0	0	0									
11PM-MID			0	0	0									
			HOURS MET		0	0	0	0	0	0	3			
			WARRANT SATISFIED?		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from: _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

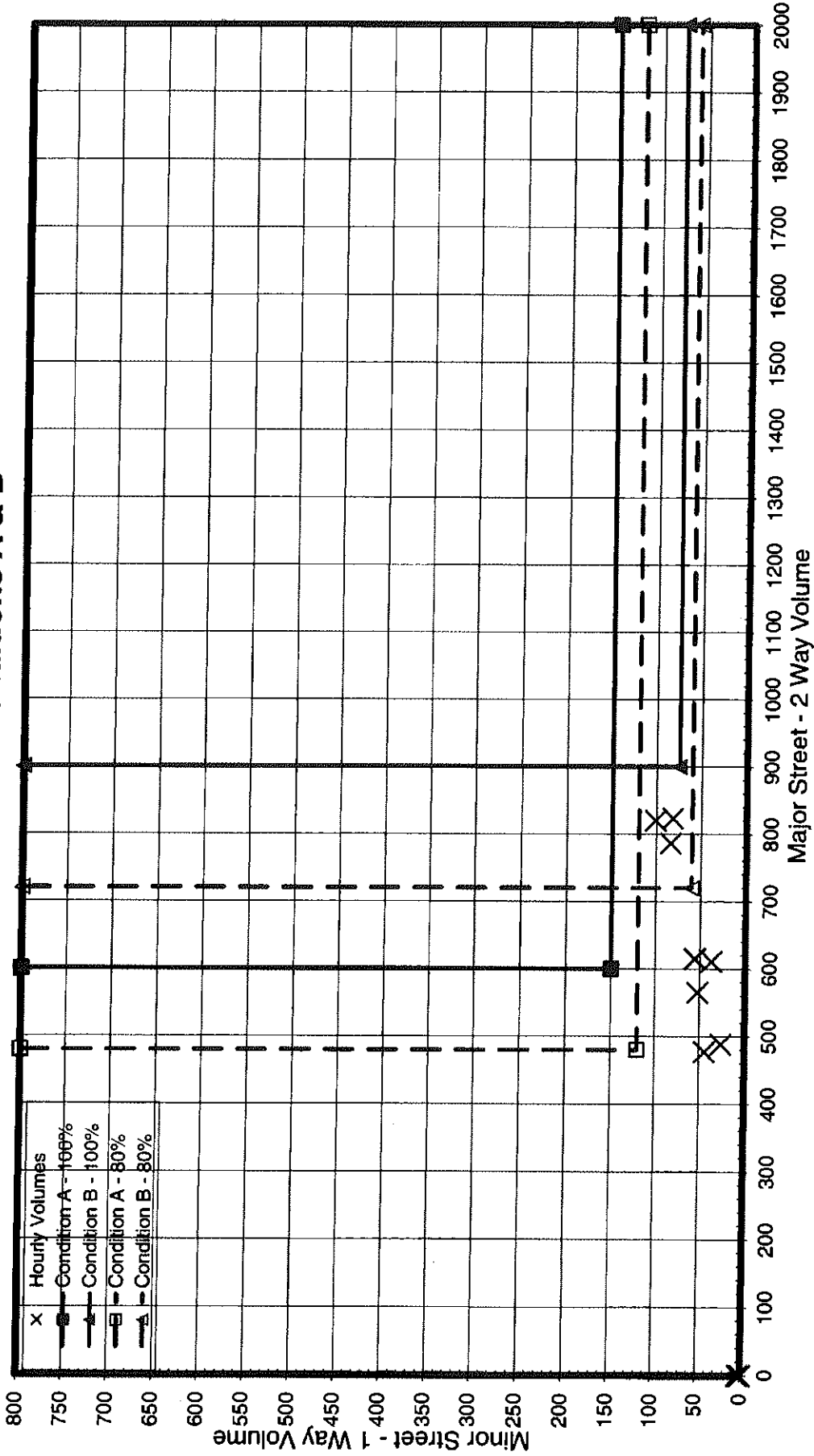
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

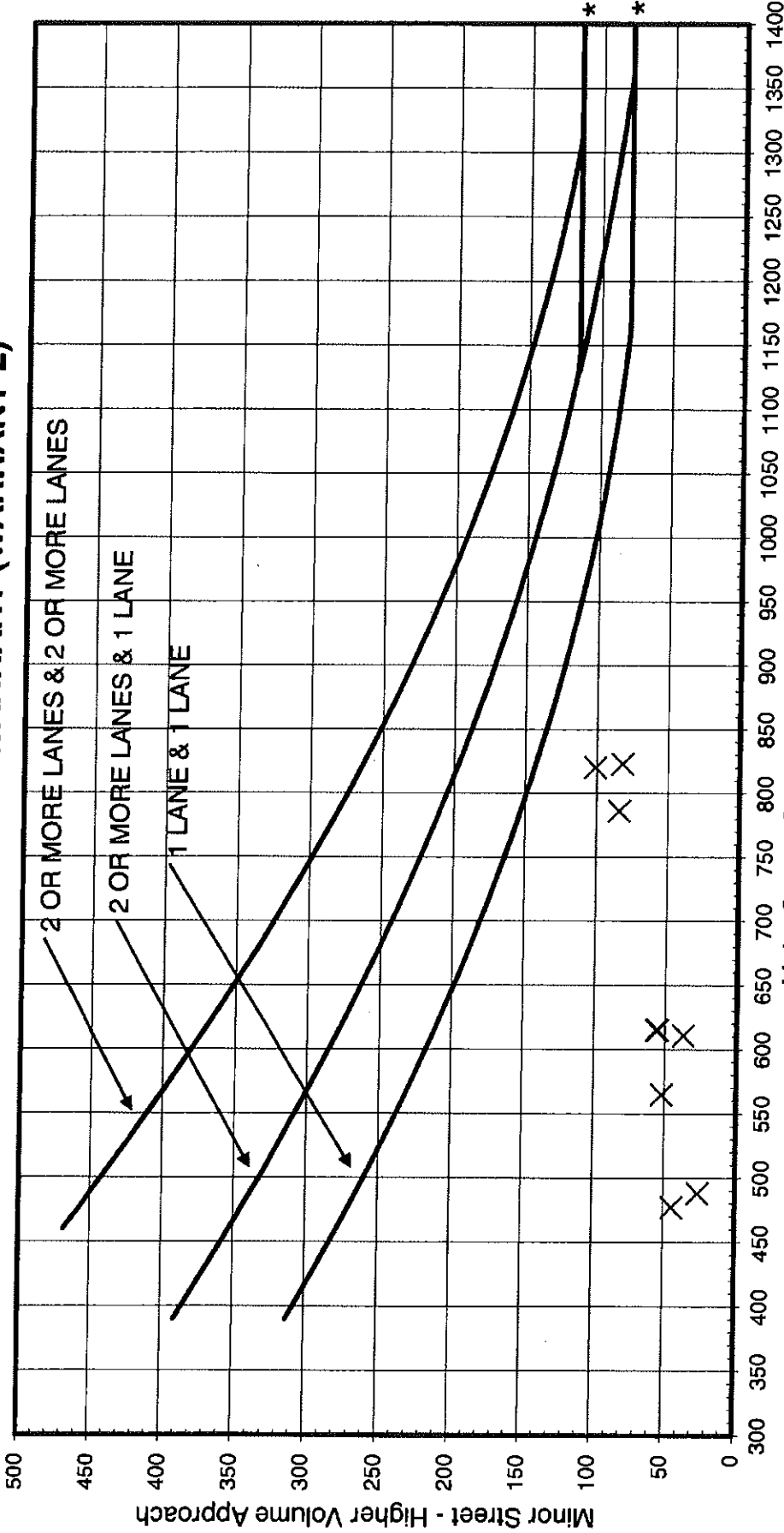


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Day of Week	Date & Year	From	To	Weather
Tuesday	May 31, 2011	7:00 AM	10:00 AM	
Tuesday	May 31, 2011	11:00 AM	2:00 PM	
Tuesday	May 31, 2011	3:00 PM	6:00 PM	

Major Road = Superior Rd	Lanes = 2
Minor Road = Emily St	Lanes = 1
Road Location = Urban	
Condition A (100%) =	Warrant Met? No
Condition B (100%) =	Warrant Met? No
Condition A (80%) =	Warrant Met? No
Condition B (80%) =	Warrant Met? No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



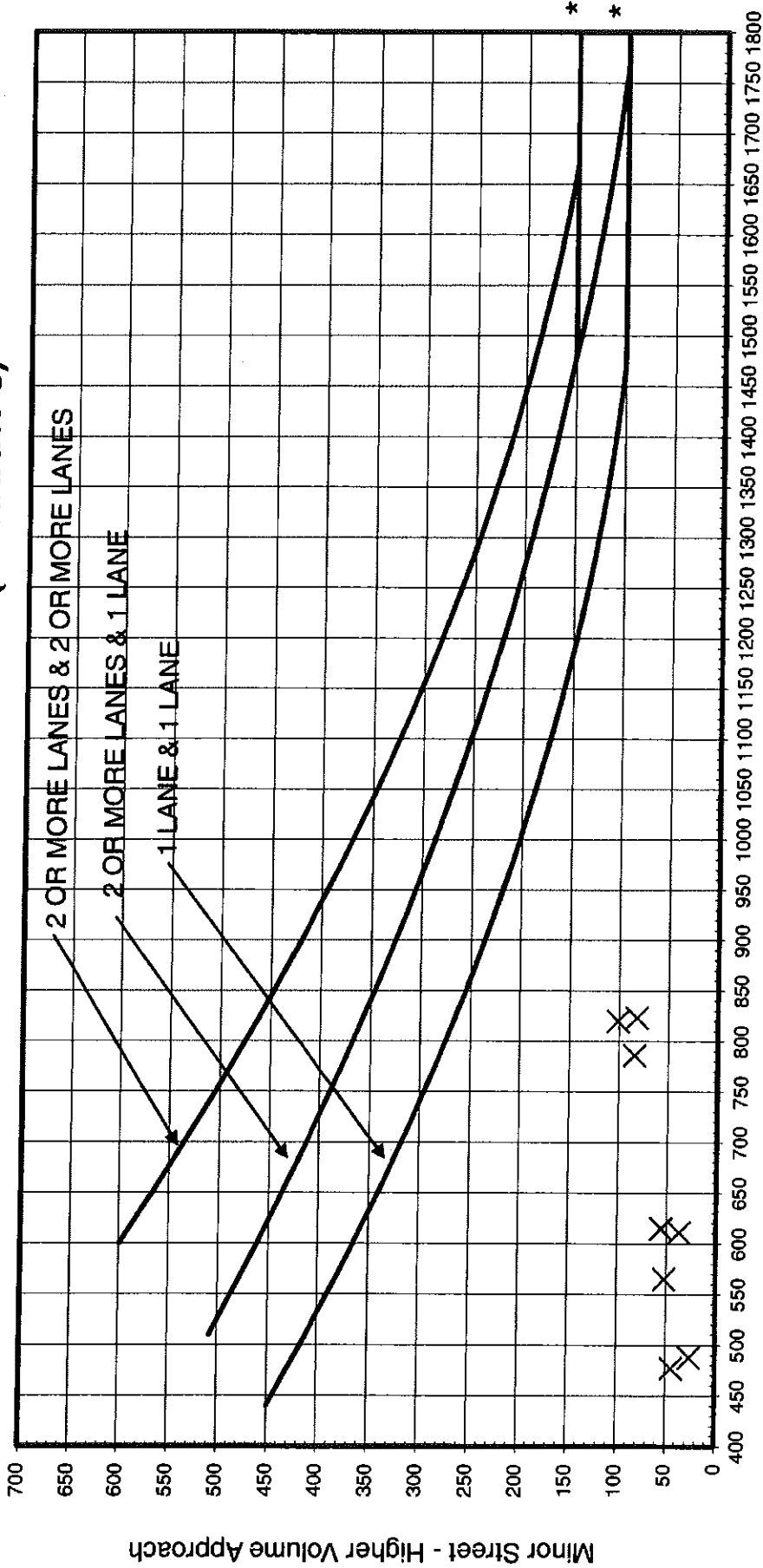
Day of Week	Date & Year	From	To	Weather
Tuesday	May 31, 2011	7:00 AM	10:00 AM	
Tuesday	May 31, 2011	11:00 AM	2:00 PM	
Tuesday	May 31, 2011	3:00 PM	6:00 PM	

Major Road = Superior Rd
 Minor Road = Emily St
 Road Location = Urban

Warrant 2 (Urban) = 0 Hours Meet. NO

Warrant Met? NO

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Superior Rd Lanes 2
 Minor Road = Emily St Lanes 1
 Road Location = Urban

Warrant 3 (Urban) = 0 Hours Meet Warrant Met? NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	May 31, 2011	7:00 AM	10:00 AM	
Tuesday	May 31, 2011	11:00 AM	2:00 PM	
Tuesday	May 31, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data Glenmont Rd and Superior Ave



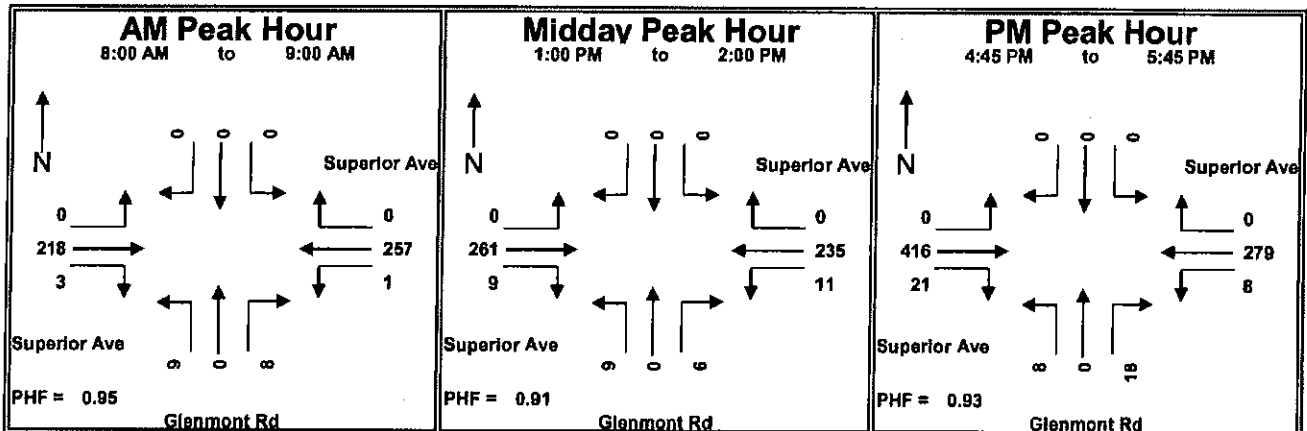
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.936	Monday	June 6, 2011	7:00 AM	10:00 AM	
0.936	Monday	June 6, 2011	11:00 AM	2:00 PM	
0.936	Monday	June 6, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Glenmont Rd Northbound				Southbound				Total North South	Superior Ave Eastbound				Superior Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	79	0	84	0	0	1	0	0	164	0	2370	72	19	51	2032	1	8	4526	4690
ADT	126	0	134	0	0	2	0	0	261	0	3773	115	30	81	3235	2	13	7205	7466
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 0%					
7:00 AM	1	0	0	0	0	0	0	0	1	0	25	0	0	2	38	0	1	65	66
7:15 AM	5	0	2	0	0	0	0	0	7	0	33	0	2	0	42	0	0	75	82
7:30 AM	2	0	4	0	0	0	0	0	6	0	43	0	1	0	48	0	1	91	97
7:45 AM	4	0	2	0	0	0	0	0	6	0	44	1	0	0	39	0	0	84	90
8:00 AM	2	0	2	0	0	0	0	0	4	0	59	1	1	0	67	0	3	127	131
8:15 AM	3	0	2	0	0	0	0	0	5	0	55	1	1	0	67	0	0	123	128
8:30 AM	3	0	2	0	0	0	0	0	5	0	44	0	0	0	67	0	1	111	116
8:45 AM	1	0	2	0	0	0	0	0	3	0	60	1	3	1	56	0	1	118	121
9:00 AM	1	0	2	0	0	0	0	0	3	0	40	0	0	2	44	0	0	86	89
9:15 AM	0	0	1	0	0	0	0	0	1	0	48	1	1	3	42	0	0	94	95
9:30 AM	3	0	1	0	0	0	0	0	4	0	50	4	0	0	49	0	0	103	107
9:45 AM	3	0	2	0	0	0	0	0	5	0	39	0	0	1	36	0	0	76	81
11:00 AM	3	0	5	0	0	0	0	0	8	0	45	2	1	2	43	0	0	92	100
11:15 AM	2	0	1	0	0	0	0	0	3	0	55	3	0	0	49	0	0	107	110
11:30 AM	1	0	4	0	0	0	0	0	5	0	64	1	0	0	39	0	0	104	109
11:45 AM	1	0	2	0	0	0	0	0	3	0	62	3	1	0	49	0	0	114	117
12:00 PM	3	0	3	0	0	0	0	0	6	0	62	0	0	0	58	0	0	120	126
12:15 PM	0	0	0	0	0	0	0	0	0	0	57	1	1	0	53	0	0	111	111
12:30 PM	2	0	3	0	0	0	0	0	5	0	69	1	0	2	65	1	0	138	143
12:45 PM	0	0	0	0	0	0	0	0	0	0	42	1	1	0	66	0	0	109	109
1:00 PM	2	0	1	0	0	0	0	0	3	0	67	1	0	4	71	0	0	143	146
1:15 PM	2	0	2	0	0	0	0	0	4	0	56	2	1	3	52	0	0	113	117
1:30 PM	2	0	3	0	0	0	0	0	5	0	76	4	0	2	55	0	1	137	142
1:45 PM	3	0	0	0	0	0	0	0	3	0	62	2	0	2	57	0	0	123	126
3:00 PM	2	0	2	0	0	0	0	0	4	0	80	3	1	4	46	0	0	133	137
3:15 PM	3	0	1	0	0	0	0	0	4	0	92	1	2	0	68	0	0	161	165
3:30 PM	3	0	1	0	0	1	0	0	5	0	90	1	2	0	50	0	0	141	146
3:45 PM	4	0	5	0	0	0	0	0	9	0	92	2	0	2	82	0	0	178	187
4:00 PM	7	0	4	0	0	0	0	0	11	0	86	5	0	5	63	0	0	159	170
4:15 PM	1	0	2	0	0	0	0	0	3	0	94	3	0	3	77	0	0	177	180
4:30 PM	1	0	3	0	0	0	0	0	4	0	84	4	0	2	51	0	0	141	145
4:45 PM	2	0	3	0	0	0	0	0	5	0	98	6	0	1	63	0	0	168	173
5:00 PM	2	0	5	0	0	0	0	0	7	0	112	8	0	1	74	0	0	195	202
5:15 PM	2	0	6	0	0	0	0	0	8	0	106	3	0	4	62	0	0	175	183
5:30 PM	2	0	4	0	0	0	0	0	6	0	100	4	0	2	80	0	0	186	192
5:45 PM	1	0	2	0	0	0	0	0	3	0	79	2	0	3	64	0	0	148	151



Notes:

SIGNAL WARRANT

INTERSECTION: Glennont Rd and Superior Ave
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 0 S: 1 E: 3 W: 3
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____ CKD BY: _____



ADDITIONAL ITEMS ATTACHED

- SKETCH OR DRAWING
- VEHICULAR VOLUME COUNT
- TRAFFIC PROJECTION
- ACCIDENT DATA
- PEDESTRIAN COUNT
- GAP ANALYSIS
- SPEED DATA
- DELAY ANALYSIS
- TIME/SPACE DIAGRAM
- GROUND PHOTOGRAPHS
- AERIAL PHOTOGRAPHS
- DOCUMENTATION/EXPLANATION

OTHER (DESCRIBE): _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from: _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

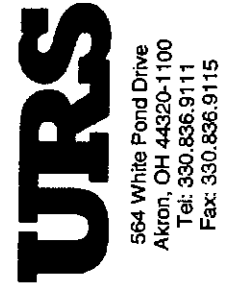
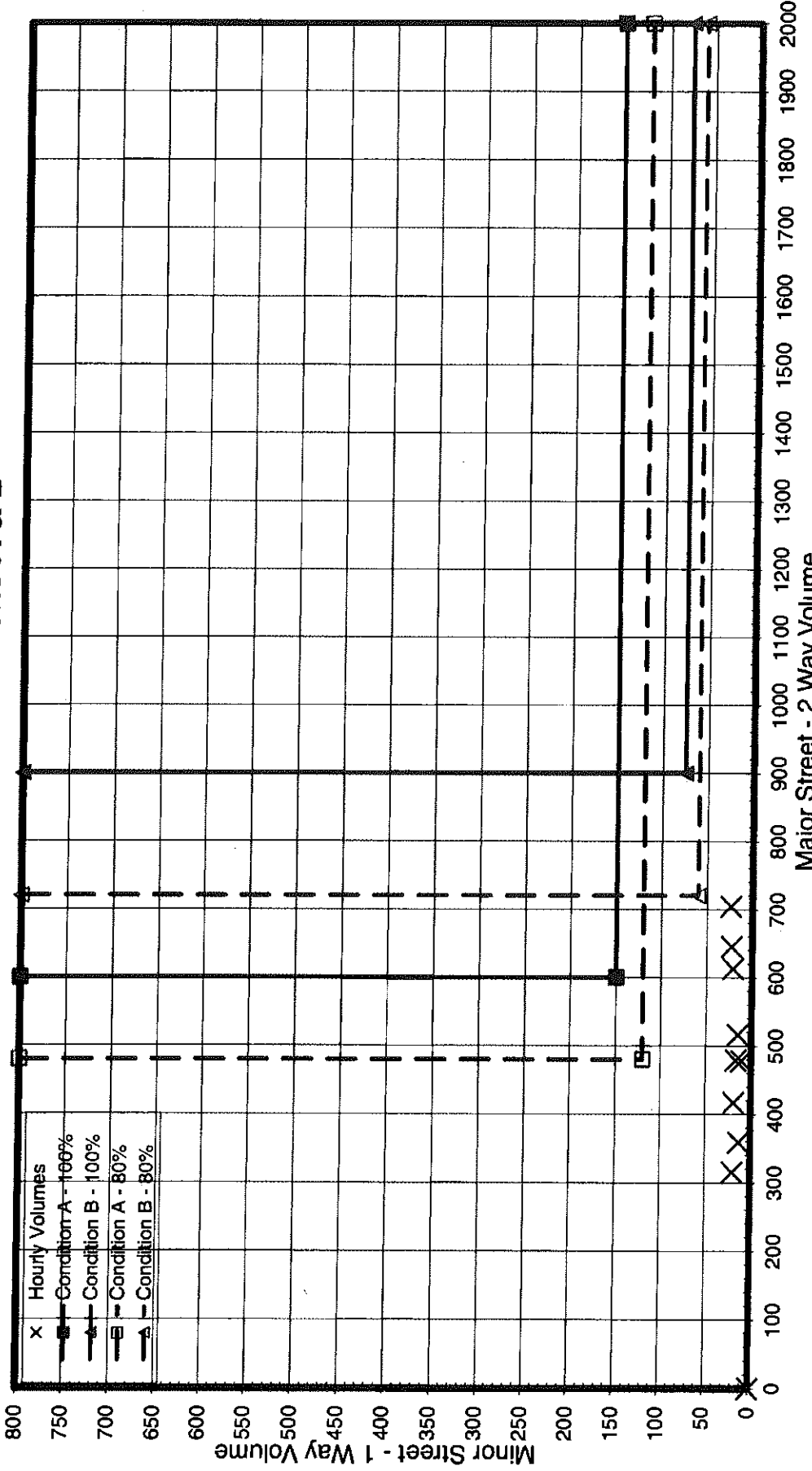
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

COND. NO. OF LANE	ADJUSTED HOURLY VOLUMES				CONDITION A						CONDITION B						WARRANT #2 FOUR HOUR	WARRANT #3 PEAK HOUR
	MAJOR 2-WAY		MINOR 1-WAY		100%		80%		100%		80%		100%		80%			
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR		
1	0	0	0	0	500	150	400	120	750	75	600	60						
2+	X	0	0	0	600	200	480	160	900	100	720	80						
NORM	0	0	0	0	350	105	280	84	525	53	420	42						
70%	0	0	0	0	420	140	336	112	630	70	504	56						
MID-1AM	0	0	0	0														
1AM-2AM	0	0	0	0														
2AM-3AM	0	0	0	0														
3AM-4AM	0	0	0	0														
4AM-5AM	0	0	0	0														
5AM-6AM	0	0	0	0														
6AM-7AM	0	0	0	0														
7AM-8AM	315	0	0	0														
8AM-9AM	479	17	0	0														
9AM-10AM	359	13	0	0														
10AM-11AM	0	0	0	0														
11AM-NOON	417	19	0	0														
NOON-1PM	478	11	0	0														
1PM-2PM	516	15	0	0														
2PM-3PM	0	0	0	0														
3PM-4PM	613	21	1	0														
4PM-5PM	645	23	0	0														
5PM-6PM	704	24	0	0														
6PM-7PM	0	0	0	0														
7PM-8PM	0	0	0	0														
8PM-9PM	0	0	0	0														
9PM-10PM	0	0	0	0														
10PM-11PM	0	0	0	0														
11PM-MD	0	0	0	0														
HOURS MET																		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
WARRANT SATISFIED?																		
NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO																		

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

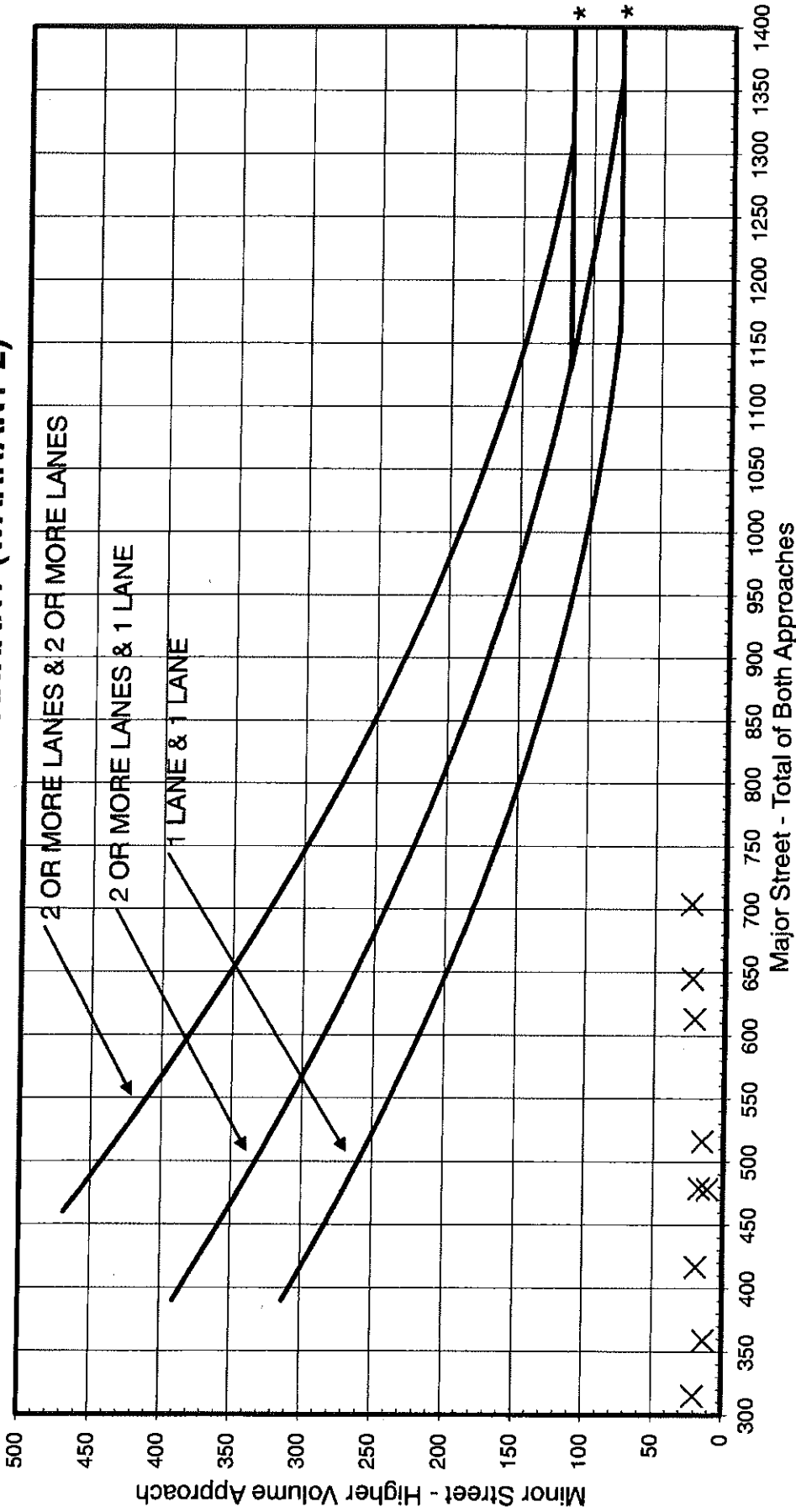


Day of Week	Date & Year	Hours		Weather
		From	To	
Monday	June 6, 2011	7:00 AM	10:00 AM	
Monday	June 6, 2011	11:00 AM	2:00 PM	
Monday	June 6, 2011	3:00 PM	6:00 PM	

Major Road = Superior Ave	Lanes = 3
Minor Road = Glenmont Rd	Lanes = 1
Road Location = Urban	

Warrant Met?
Condition A (100%) = 0 Hours Meet
Condition B (100%) = 0 Hours Meet
Condition A (80%) = 0 Hours Meet
Condition B (80%) = 0 Hours Meet

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

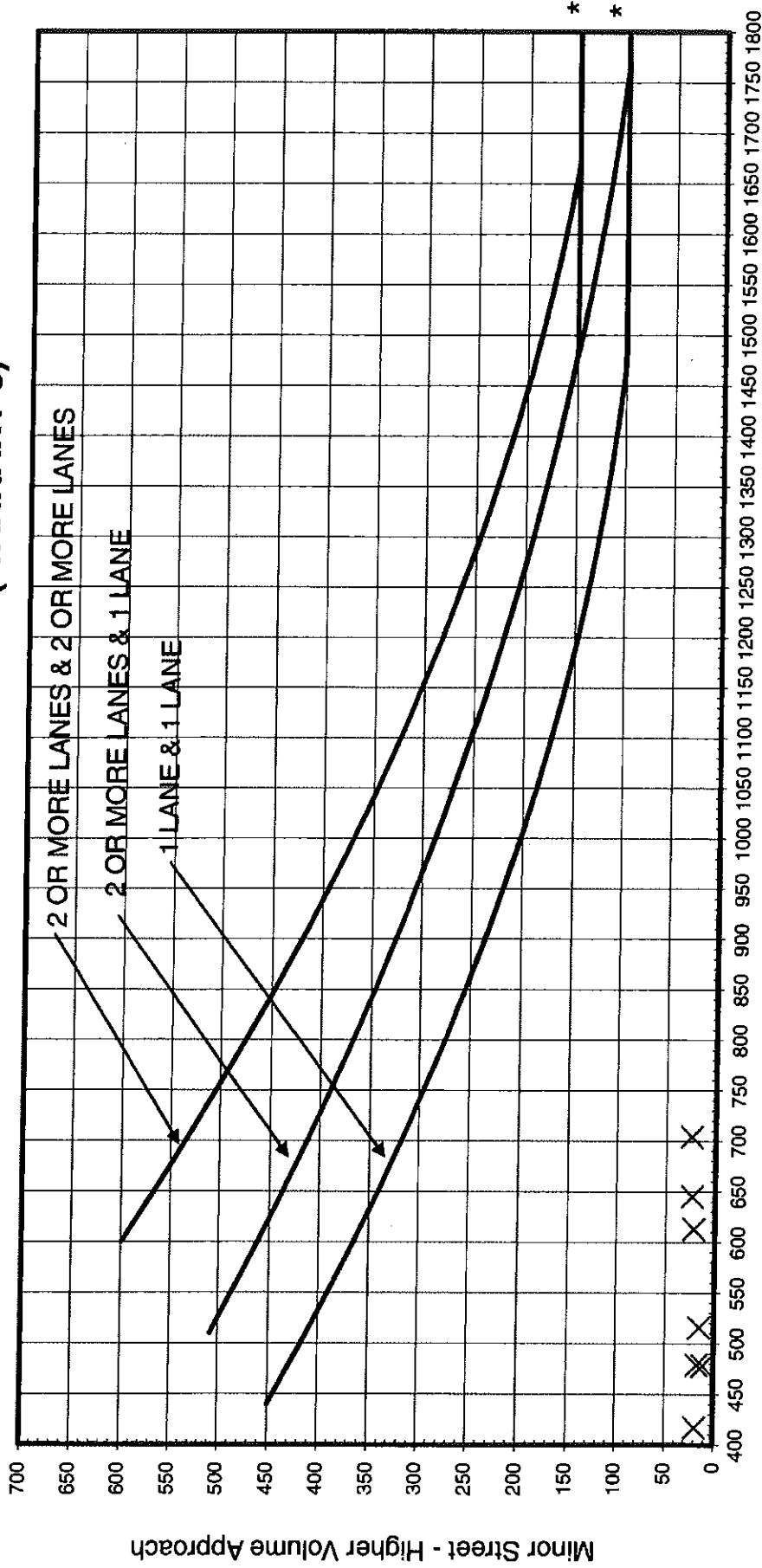
Day of Week	Date & Year	Hours		Weather
		From	To	
Monday	June 6, 2011	7:00 AM	10:00 AM	
Monday	June 6, 2011	11:00 AM	2:00 PM	
Monday	June 6, 2011	3:00 PM	6:00 PM	

Major Road = Superior Ave
 Minor Road = Glenmont Rd
 Road Location = Urban

Lanes:

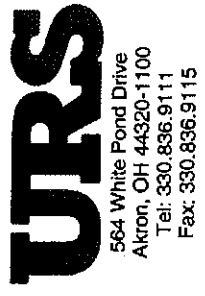
Warrant Met?
 Warrant 2 (Urban) = Hours Meet

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



Day of Week	Date & Year	Hours From	Hours To	Weather
Monday	June 6, 2011	7:00 AM	10:00 AM	
Monday	June 6, 2011	11:00 AM	2:00 PM	
Monday	June 6, 2011	3:00 PM	6:00 PM	

Major Road = Superior Ave
 Minor Road = Glenmont Rd
 Road Location = Urban

Warrant 3 (Urban) = Hours Meet Warrant Met?

15-Minute Count Data Hayden Ave and Superior Ave



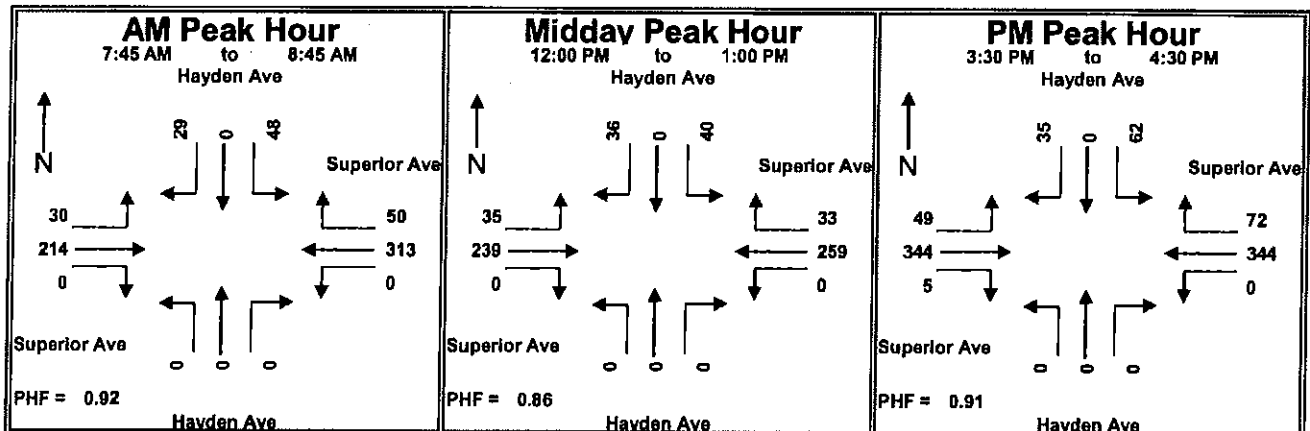
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
1.010	Monday	May 23, 2011	7:00 AM	10:00 AM	
1.010	Monday	May 23, 2011	11:00 AM	2:00 PM	
1.010	Monday	May 23, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Hayden Ave Northbound				Hayden Ave Southbound				Total North South	Superior Ave Eastbound				Superior Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	0	0	0	465	7	247	2	719	286	2314	5	11	0	2326	408	6	5339	6058
ADT	0	0	0	0	799	12	424	3	1235	491	3975	9	19	0	3995	701	10	9171	10406
		Percent Trucks = 0%				Percent Trucks = 0%				Percent Trucks = 0%				Percent Trucks = 0%					



Notes:

Superior/Hayden
Bus Counts
May 23, 2011

File Name : 2304-5-23-2C
Site Code : 00052311
Start Date : 05/23/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
07:15 AM	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
07:30 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	
07:45 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	
Total	1	0	0	0	0	7	0	0	0	0	0	0	0	3	1	0	1
08:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	
08:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
08:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
08:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	
Total	0	0	1	0	0	4	0	0	0	0	0	0	0	6	1	0	1
09:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	
09:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	
09:30 AM	0	0	0	0	2	2	0	0	0	0	0	0	0	1	0	0	
09:45 AM	0	0	0	0	0	4	0	0	0	0	0	0	0	1	0	0	
Total	0	0	1	0	2	8	0	0	0	0	0	0	0	7	0	0	1
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
11:15 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
11:45 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	1
12:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	
12:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
12:30 PM	0	0	1	0	0	2	0	0	0	0	0	0	0	2	0	0	
12:45 PM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	
Total	0	0	1	0	1	5	0	0	0	0	0	0	0	6	0	0	1
01:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
01:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
01:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
Total	0	0	0	0	0	3	0	0	0	0	0	0	0	5	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
03:15 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	5	0	0	
03:30 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	
03:45 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	
Total	0	0	0	0	0	7	0	0	0	0	0	0	0	9	0	0	1
04:00 PM	0	0	0	0	0	4	0	0	0	0	0	0	0	2	1	0	
04:15 PM	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
04:30 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	1	0	0	0	0	7	0	0	0	0	0	0	0	7	1	0	1

Superior/Hayden
 Bus Counts
 May 23, 2011

File Name : 2304-5-23-20
 Site Code : 00052311
 Start Date : 05/23/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
05:15 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	3	0	0	
05:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	4	0	0	0	0	0	0	0	8	0	0	1
Grand Total	2	0	3	0	3	51	0	0	0	0	0	0	0	57	3	0	11
Approch %	40.0	0.0	60.0	0.0	5.8	94.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.0	5.0	0.0	
Total %	1.7	0.0	2.5	0.0	2.5	42.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.9	2.5	0.0	

15-Minute Count Data

Hayden Ped and Superior Ped



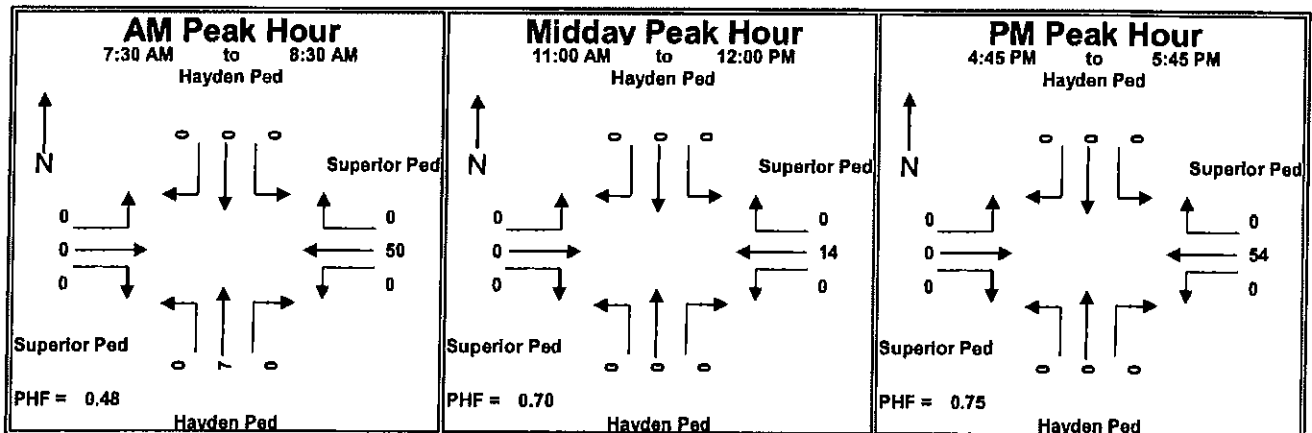
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
1.010	Monday	May 23, 2011	7:00 AM	10:00 AM	
1.010	Monday	May 23, 2011	11:00 AM	2:00 PM	
1.010	Monday	May 23, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Hayden Ped Northbound				Hayden Ped Southbound				Total North South	Superior Ped Eastbound				Superior Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	7	0	0	0	0	0	0	7	0	0	0	0	0	258	0	0	258	265
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	12	0	0	0	0	0	0	12	0	0	0	0	0	443	0	0	443	455



Notes:

SIGNAL WARRANT



INTERSECTION: Hayden Ave and Superior Ave
 LOCATION IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N:1 S:1 E:2 W:2
 PRESENTLY SIGNALIZED? Yes No DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____ CKD BY: _____
 SECT: _____

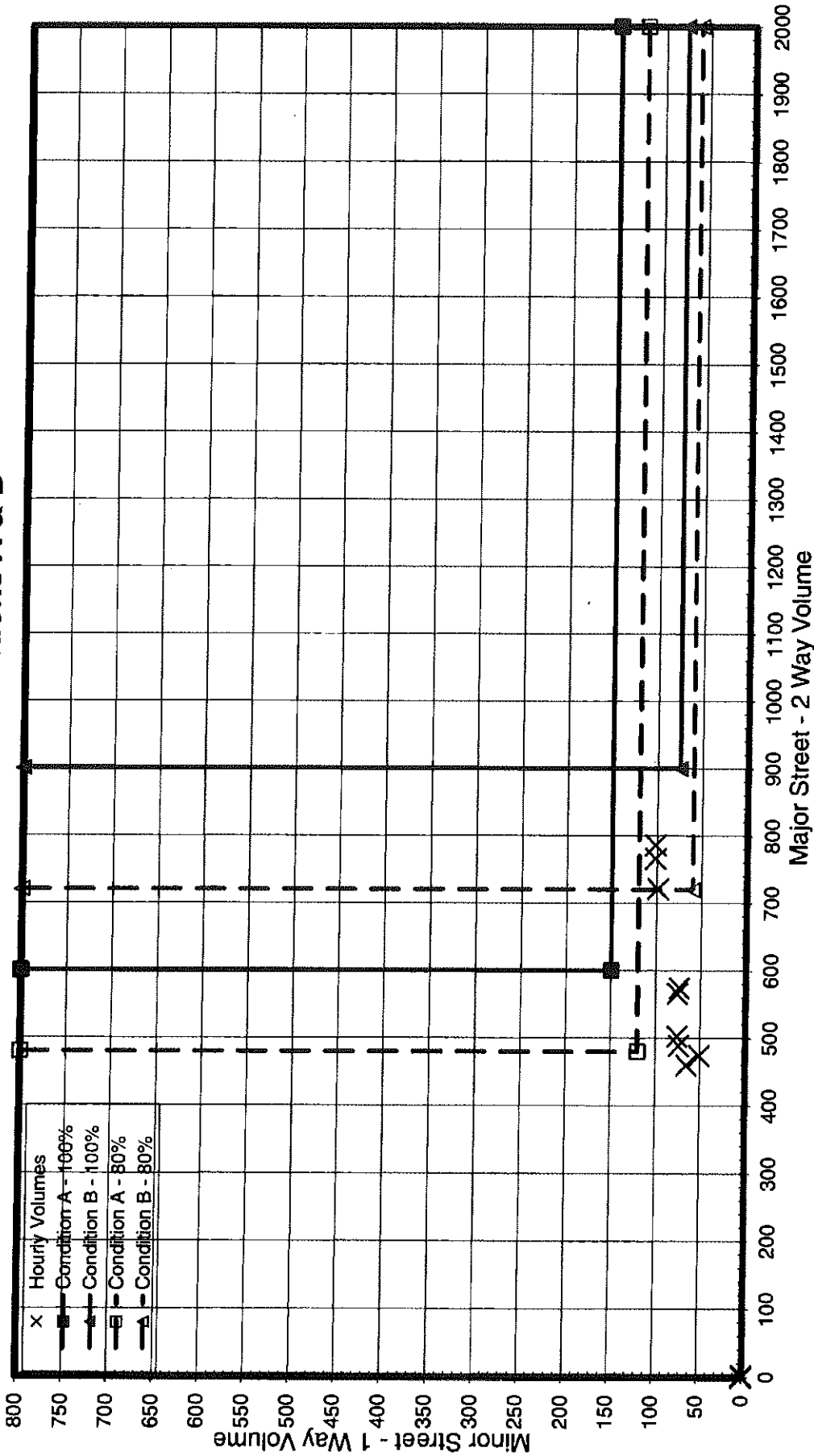
ADDITIONAL ITEMS ATTACHED
 SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____

OTHER (DESCRIBE): _____
 WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level. NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____
 WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____ NO
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____ NO
 WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____ TWO-WAY
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____ NO
 WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____ NO
 WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____ NO

COND. NO. OF TION LINES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3	
	MAJOR ST 1-WAY	MINOR ST 1-WAY	CONDITION A		CONDITION B		100% MAJOR	100% MINOR	80% MAJOR	80% MINOR	FOUR HOUR	PEAK HOUR
	2-WAY	1-WAY	100% MAJOR	100% MINOR	80% MAJOR	80% MINOR						
NORM	1	X	500	150	400	120	750	75	600	60		
	2+	X	600	200	480	160	900	100	720	80		
70%	1		350	105	280	84	525	53	420	42		
	2+		420	140	336	112	630	70	504	56		
MID-1AM	0	0										
1AM-2AM	0	0										
2AM-3AM	0	0										
3AM-4AM	0	0										
4AM-5AM	0	0										
5AM-6AM	0	0										
6AM-7AM	0	0										
7AM-8AM	460	0										
8AM-9AM	574	0										
9AM-10AM	489	0			X							
10AM-11AM	2	0			X							
11AM-NOON	503	0			X							
NOON-1PM	566	0			X							
1PM-2PM	474	0			X							
2PM-3PM	0	0										
3PM-4PM	786	0			X							
4PM-5PM	766	0			X							
5PM-6PM	721	0			X							
6PM-7PM	0	0			X							
7PM-8PM	0	0										
8PM-9PM	0	0										
9PM-10PM	0	0										
10PM-11PM	0	0										
11PM-MID	0	0										
HOURS MET			0	0	0	0	0	0	0	3	0	0
WARRANT SATISFIED?			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

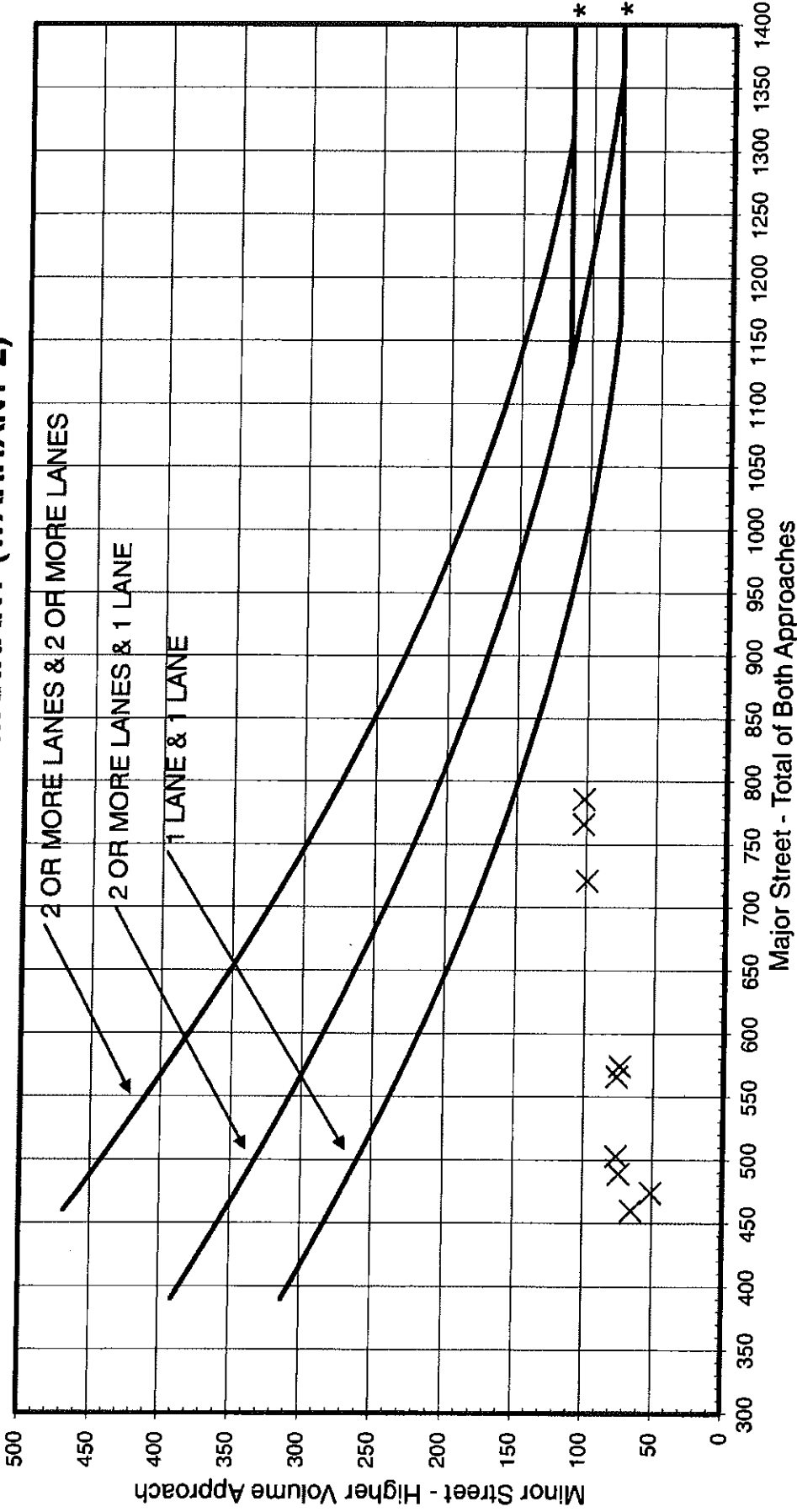


564 White Pond Drive
Akron, OH 44320-1100
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Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Monday	May 23, 2011	7:00 AM	10:00 AM	
Monday	May 23, 2011	11:00 AM	2:00 PM	
Monday	May 23, 2011	3:00 PM	6:00 PM	

Major Road = Superior Ave	Lanes = 2
Minor Road = Hayden Ave	Lanes = 1
Road Location = Urban	
Condition A (100%) = 0 Hours Meet	Warrant Met? No
Condition B (100%) = 0 Hours Meet	Warrant Met? No
Condition A (80%) = 0 Hours Meet	Warrant Met? No
Condition B (80%) = 3 Hours Meet	Warrant Met? No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



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Day of Week	Date & Year	Hours		Weather
		From	To	
Monday	May 23, 2011	7:00 AM	10:00 AM	
Monday	May 23, 2011	11:00 AM	2:00 PM	
Monday	May 23, 2011	3:00 PM	6:00 PM	

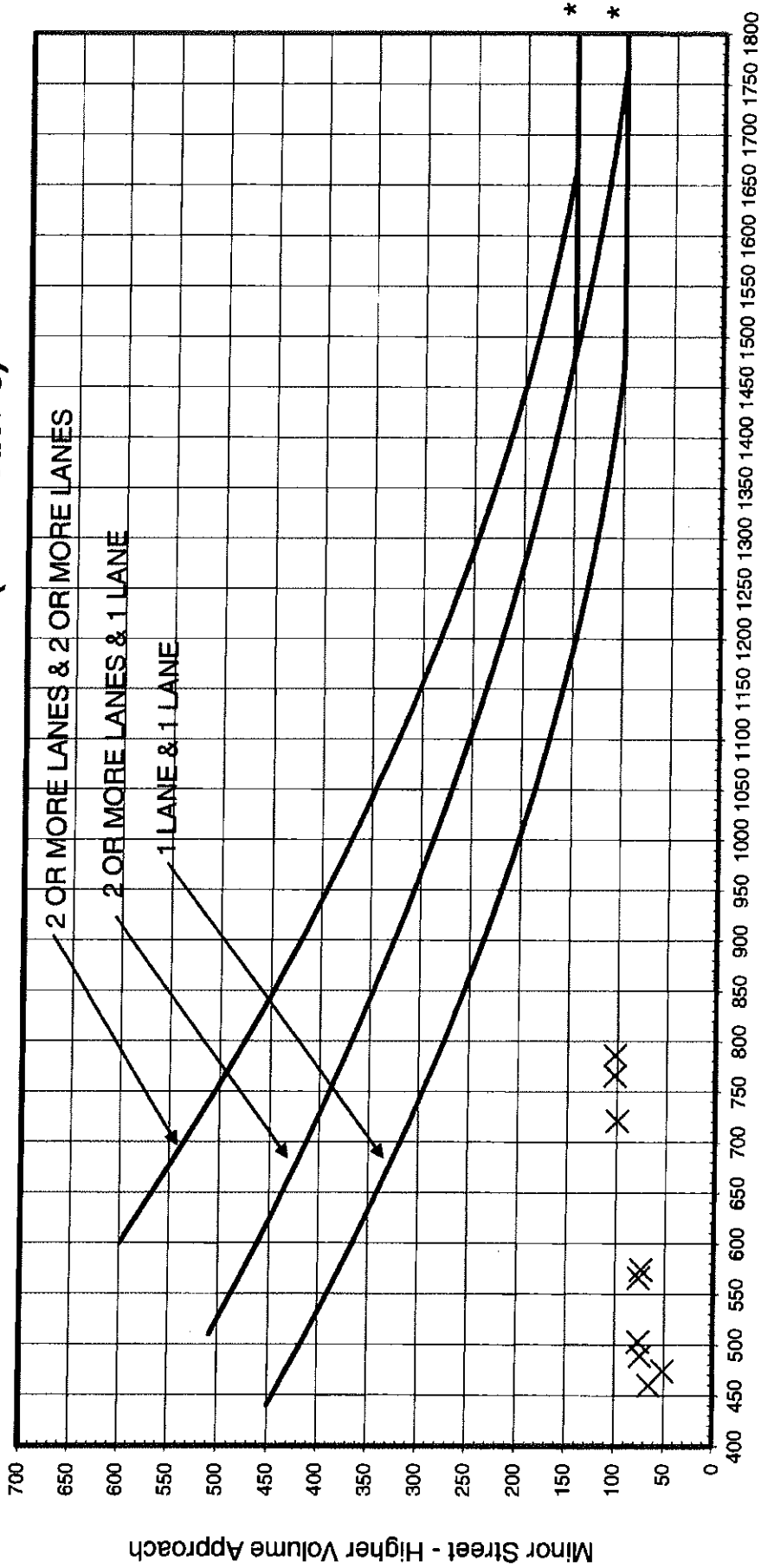
Major Road = Superior Ave
 Minor Road = Hayden Ave
 Road Location = Urban

Lanes
2
1

Warrant 2 (Urban) = 0 Hours Meet

Warrant Met? YES NO

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Superior Ave	Lanes = 2
Minor Road = Hayden Ave	Lanes = 1
Road Location = Urban	

Warrant 3 (Urban) = 0 Hours Meet Warrant Met? NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Monday	May 23, 2011	7:00 AM	10:00 AM	
Monday	May 23, 2011	11:00 AM	2:00 PM	
Monday	May 23, 2011	3:00 PM	6:00 PM	



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15-Minute Count Data

Lockwood Ave and Superior Ave

E. Cleveland, Ohio



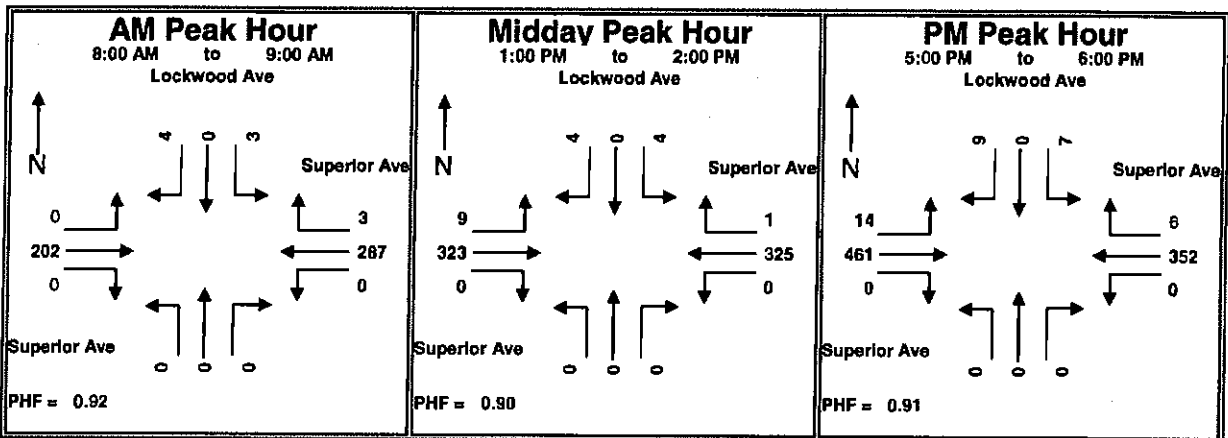
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 9, 2011	7:00 AM	10:00 AM	Rain
0.886	Thursday	June 9, 2011	11:00 AM	2:00 PM	Hot
0.886	Thursday	June 9, 2011	3:00 PM	6:00 PM	Mild

ADT Factor: 1.70

Intersection ID: 1

Start Time	Northbound				Lockwood Ave Southbound				Total North	Superior Ave Eastbound				Superior Ave Westbound				Total East	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	0	0	0	34	0	45	0	79	78	2681	2	33	0	2646	52	49	5457	5536
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 2%					
ADT	0	0	0	0	51	0	68	0	119	115	4040	3	50	0	3987	76	74	8223	8342



Notes:

SIGNAL WARRANT



INTERSECTION: Lockwood Ave and Superior Ave
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 0 E: 2 W: 2
 PRESENTLY SIGNALIZED? Yes _____ DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga COUNTY
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: **NO**

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
Warrant Satisfied? **NO**

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
Warrant Satisfied? **NO**

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
Warrant Satisfied? **NO**

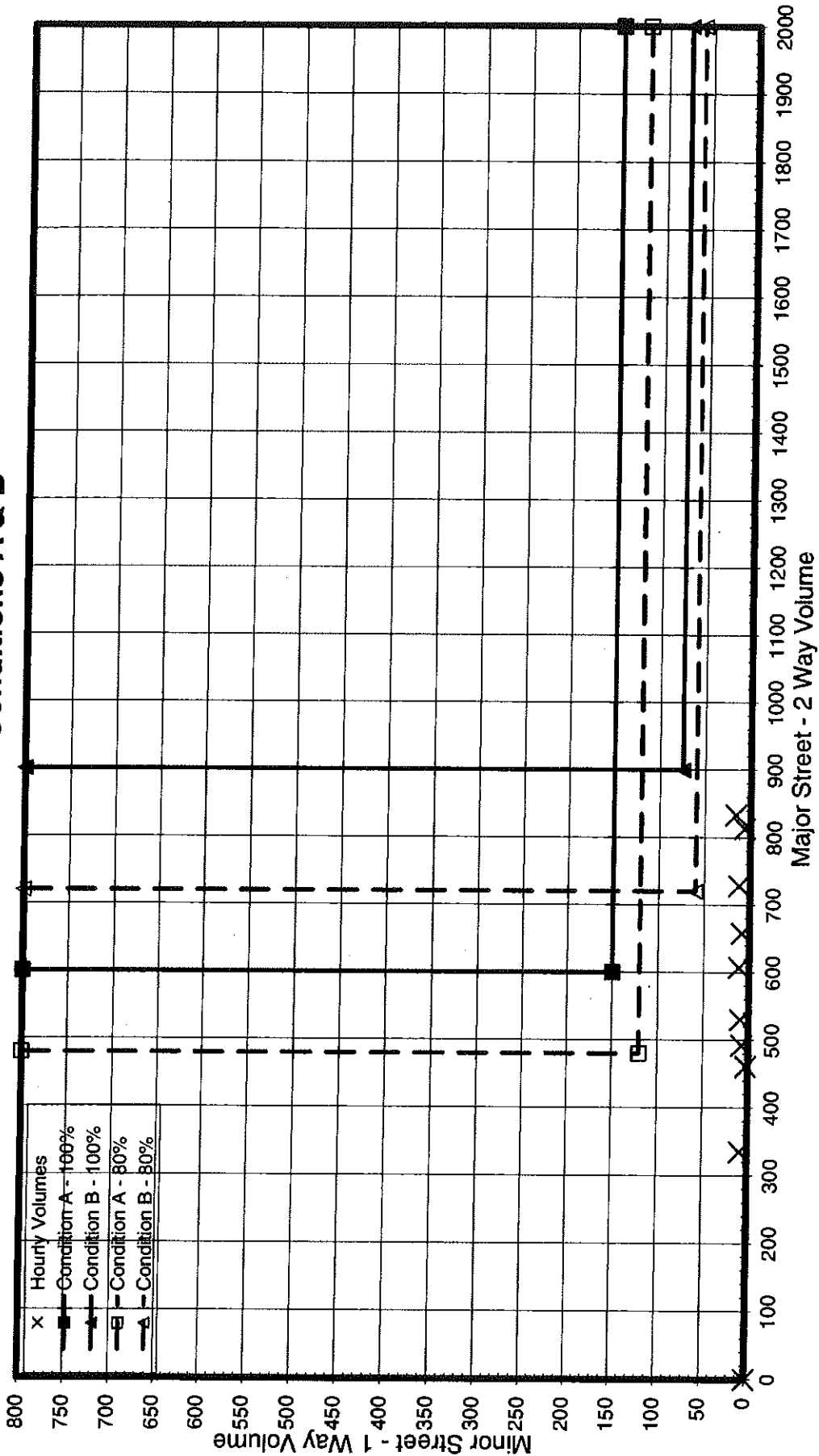
WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
Warrant Satisfied? **NO**

OTHER (DESCRIBE): _____
 ADDITIONAL ITEMS ATTACHED: _____
 SPEED DATA: _____
 DELAY ANALYSIS: _____
 TIME/SPACE DIAGRAM: _____
 GROUND PHOTOGRAPHS: _____
 AERIAL PHOTOGRAPHS: _____
 DOCUMENTATION/EXPLANATION: _____

COND. NO. OF TION LINES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3	
	MAJOR 2-WAY	MINOR 1-WAY	CONDITION A		CONDITION B		100%	80%	100%	80%	FOUR HOUR	PEAK HOUR
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR						
NORM 1	500	150	400	120	750	75	600	60				
2+	600	200	480	160	900	100	720	80				
70%	350	105	280	84	525	53	420	42				
2+	420	140	336	112	630	70	504	56				
MID-1AM	0	0	0	0								
1AM-2AM	0	0	0	0								
2AM-3AM	0	0	0	0								
3AM-4AM	0	0	0	0								
4AM-5AM	0	0	0	0								
5AM-6AM	0	0	0	0								
6AM-7AM	0	0	0	0								
7AM-8AM	335	0	0	0								
8AM-9AM	482	0	7									
9AM-10AM	461	0	2									
10AM-11AM	0	0	0									
11AM-NOON	530	0	9									
NOON-1PM	607	0	11									
1PM-2PM	658	0	8									
2PM-3PM	0	0	0									
3PM-4PM	728	0	12									
4PM-5PM	813	0	6						X			
5PM-6PM	833	0	16						X			
6PM-7PM	0	0	0						X			
7PM-8PM	0	0	0									
8PM-9PM	0	0	0									
9PM-10PM	0	0	0									
10PM-11PM	0	0	0									
11PM-MID	0	0	0									
HOURS MET			0	0	0	0	0	0				
WARRANT SATISFIED?			NO	NO	NO	NO	NO	NO				

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

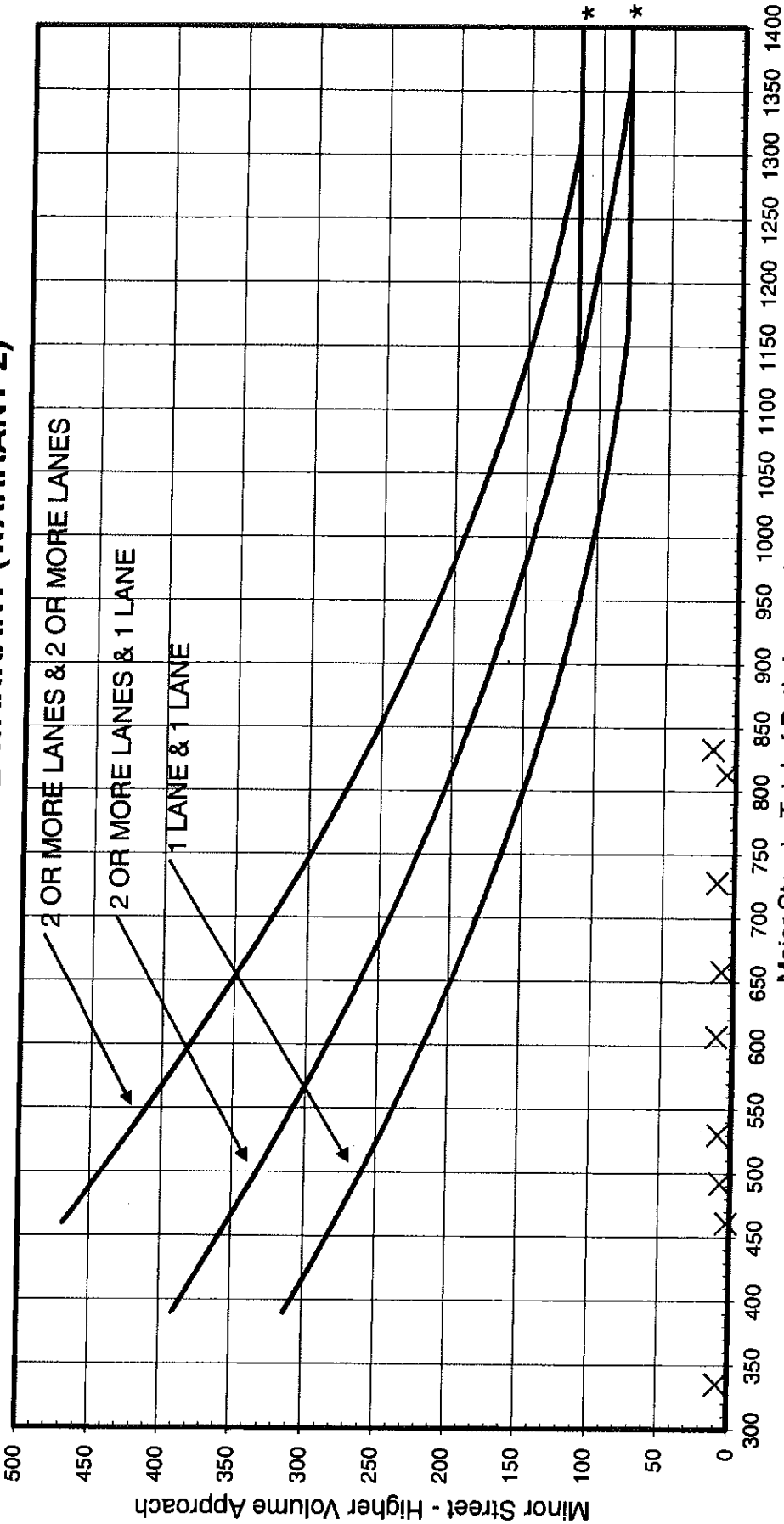
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 9, 2011	7:00 AM	10:00 AM	Rain
Thursday	June 9, 2011	11:00 AM	2:00 PM	Hot
Thursday	June 9, 2011	3:00 PM	6:00 PM	Mild

Major Road = Superior Ave	Lanes	2
Minor Road = Lockwood Ave		1
Road Location = Urban		
Warrant Mat?		
Condition A (100%) =	0 Hours Meet	No
Condition B (100%) =	0 Hours Meet	No
Condition A (80%) =	0 Hours Meet	No
Condition B (80%) =	0 Hours Meet	No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Superior Ave	Lanes	2
Minor Road = Lockwood Ave		1
Road Location = Urban		

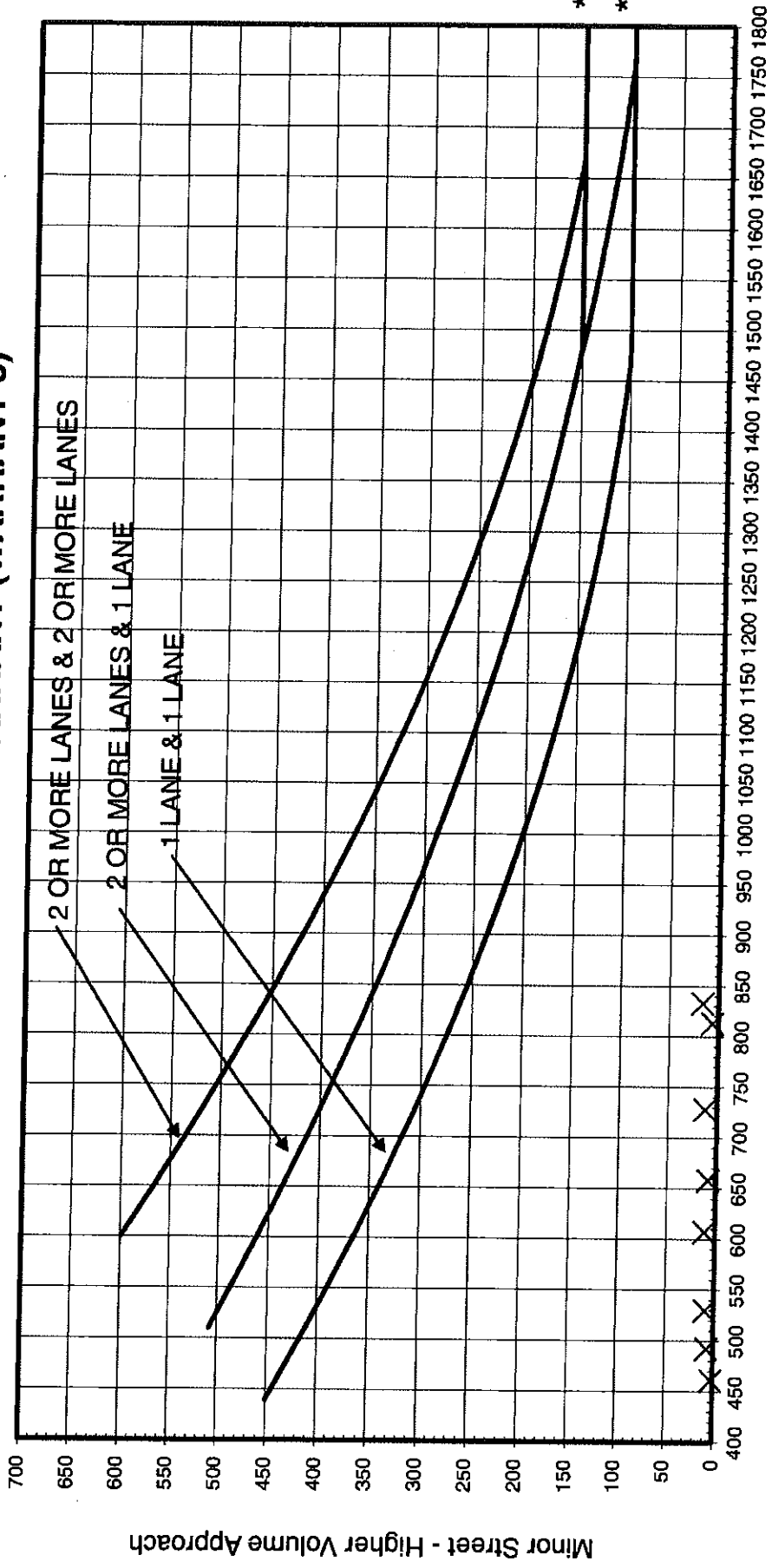
Warrant 2 (Urban) = 0 Hours Meet NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 9, 2011	7:00 AM	10:00 AM	Rain
Thursday	June 9, 2011	11:00 AM	2:00 PM	Hot
Thursday	June 9, 2011	3:00 PM	6:00 PM	Mild



564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Superior Ave
 Minor Road = Lockwood Ave
 Road Location = Urban

Warrant 3 (Urban) = 0 Hours Meet
 Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Thursday	June 9, 2011	7:00 AM	10:00 AM	Rain
Thursday	June 9, 2011	11:00 AM	2:00 PM	Hot
Thursday	June 9, 2011	3:00 PM	6:00 PM	Mild

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
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15-Minute Count Data Terrace Rd and Superior Ave



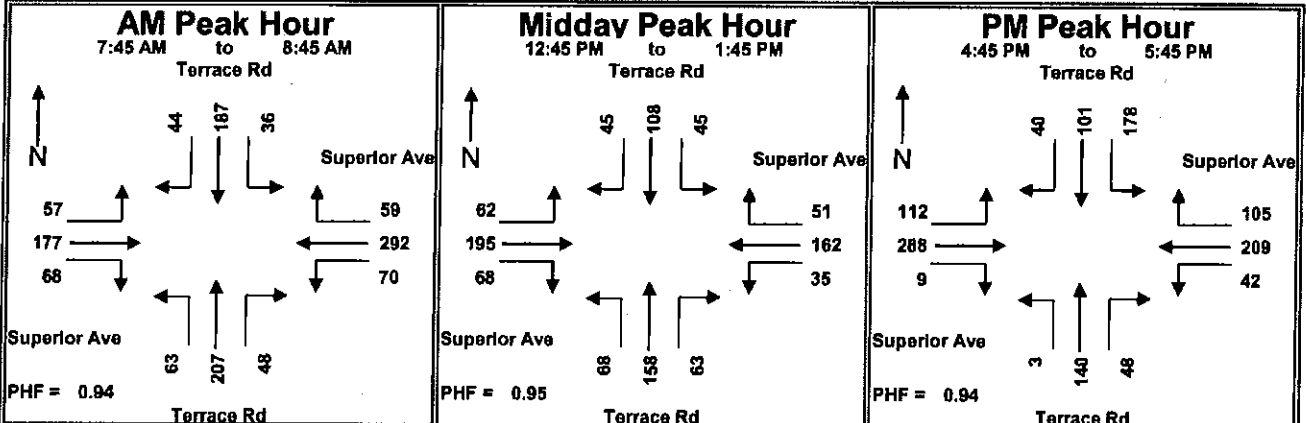
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.886	Thursday	June 2, 2011	7:00 AM	10:00 AM	
0.886	Thursday	June 2, 2011	11:00 AM	2:00 PM	
0.886	Thursday	June 2, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Superior Ave Eastbound				Superior Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	346	1189	431	1	690	1125	366	1	4147	634	1781	436	4	393	1778	496	2	5518	9665
ADT	521	1792	649	2	1040	1695	551	2	6249	955	2884	657	6	592	2679	747	3	8315	14563
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					



Notes:

Superior/Terrace
Bus Counts
June 2, 2011

File Name : 2305-6-2-20
Site Code : 00000000
Start Date : 06/02/2011
Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
08:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0	0	
09:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
09:30 AM	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	1	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:45 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
12:00 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
12:15 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Total	0	3	0	0	0	0	0	0	0	4	0	0	0	1	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
01:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
01:45 PM	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
Total	0	2	0	0	0	1	0	0	0	3	0	0	0	0	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	
03:15 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	2	2	0	
03:30 PM	2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	
03:45 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	
Total	3	0	0	0	1	1	0	0	1	0	0	0	0	5	8	0	1
04:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
04:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	2	0	0	0	1	0	0	0	5	1	0	

Superior/Terrace
 Bus Counts
 June 2, 2011

File Name : 2305-6-2-20
 Site Code : 00000000
 Start Date : 06/02/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	
Grand Total	4	10	0	0	1	9	0	0	2	14	0	0	0	12	9	0	0	6
Approch %	28.6	71.4	0.0	0.0	10.0	90.0	0.0	0.0	12.5	87.5	0.0	0.0	0.0	57.1	42.9	0.0	0.0	
Total %	6.6	16.4	0.0	0.0	1.6	14.8	0.0	0.0	3.3	23.0	0.0	0.0	0.0	19.7	14.8	0.0	0.0	

15-Minute Count Data Terrace Ped and Superior Ped



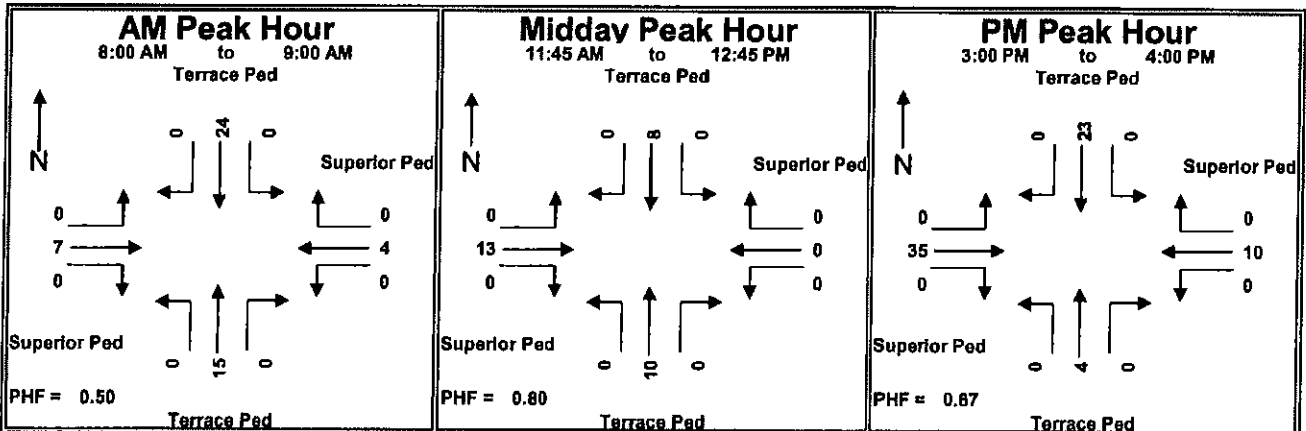
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Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Terrace Ped Northbound				Terrace Ped Southbound				Total North South	Superior Ped Eastbound				Superior Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	59	0	0	0	95	0	0	154	0	126	0	0	0	41	0	0	167	321
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	89	0	0	0	143	0	0	232	0	190	0	0	0	62	0	0	252	484



Notes:

SIGNAL WARRANT



INTERSECTION: Terrace Rd and Superior Ave.
 LOCATED IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 2 W: 2
 PRESENTLY SIGNALIZED? Yes
 DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY:

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION SECT: _____
 CALC. BY: _____ CKD BY: _____

ADDITIONAL ITEMS ATTACHED
 SPEED DATA _____
 DELAY ANALYSIS _____
 TIME/SPACE DIAGRAM _____
 GROUND PHOTOGRAPHS _____
 AERIAL PHOTOGRAPHS _____
 DOCUMENTATION/EXPLANATION _____
 OTHER (DESCRIBE): _____

COND. NO. OF LANE	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT	
	MINOR ST.		100%		80%		100%		80%		100%		80%		#2	#3
	1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	FOUR HOUR	PEAK HOUR
NORM	1	X	500	150	400	120	750	75	600	60						
70%	1		600	200	480	160	900	100	720	80						
	2+		350	105	280	84	525	53	430	42						
	2+		420	140	336	112	630	70	504	56						
1MID-1AM	0	0														
1AM-2AM	0	0														
2AM-3AM	0	0														
3AM-4AM	0	0														
4AM-5AM	0	0														
5AM-6AM	0	0														
6AM-7AM	0	0														
7AM-8AM	590	204	187	X	X	X	X	X	X	X						
8AM-9AM	700	297	267	X	X	X	X	X	X	X						
9AM-10AM	522	243	175	X	X	X	X	X	X	X				X		
10AM-11AM	0	0	0													
11AM-NOON	509	210	206	X	X	X	X	X	X	X						
NOON-1PM	567	263	196	X	X	X	X	X	X	X						
1PM-2PM	566	272	187	X	X	X	X	X	X	X						
2PM-3PM	0	0	0													
3PM-4PM	624	131	340	X	X	X	X	X	X	X						
4PM-5PM	644	170	328	X	X	X	X	X	X	X						
5PM-6PM	796	176	295	X	X	X	X	X	X	X						
6PM-7PM	0	0	0													
7PM-8PM	0	0	0													
8PM-9PM	0	0	0													
9PM-10PM	0	0	0													
10PM-11PM	0	0	0													
11PM-MID	0	0	0													
HOURS MET			4	NO	9	YES	0	NO	1	NO	5	YES	0	NO		

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: **NO**

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? **NO**

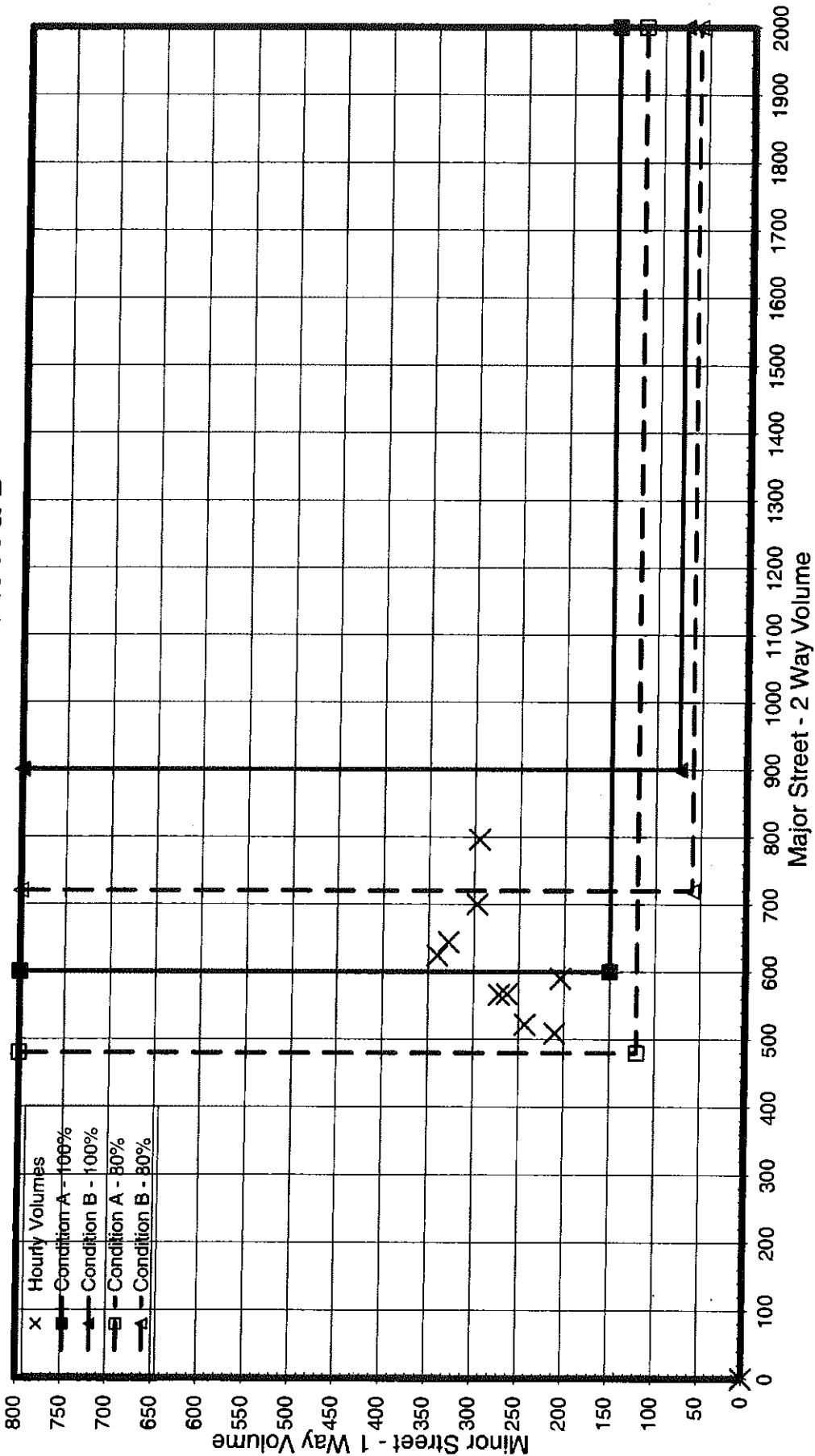
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? **NO**

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of e type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? **NO**

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? **NO**

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

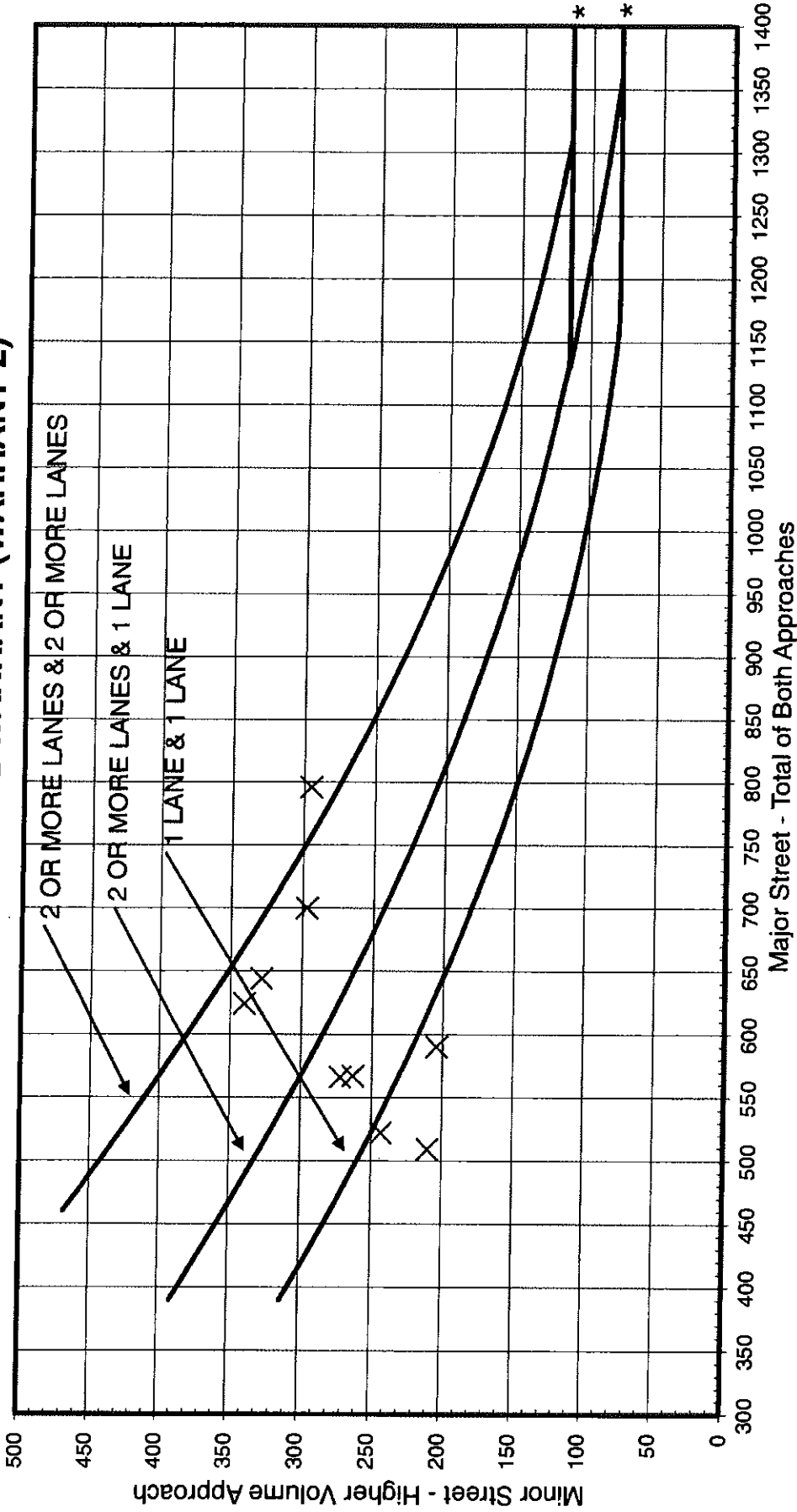
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	From	To	Weather
Thursday	June 2, 2011	7:00 AM	10:00 AM	
Thursday	June 2, 2011	11:00 AM	2:00 PM	
Thursday	June 2, 2011	3:00 PM	6:00 PM	

Major Road =	Minor Road =	Road Location =	Lanes	Warrant Met?
Superior Ave	Terrace Rd	Urban	2	No
			1	No
Condition A (100%) =	4 Hours Meet			No
Condition B (100%) =	0 Hours Meet			No
Condition A (80%) =	9 Hours Meet			Yes
Condition B (80%) =	1 Hours Meet			No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

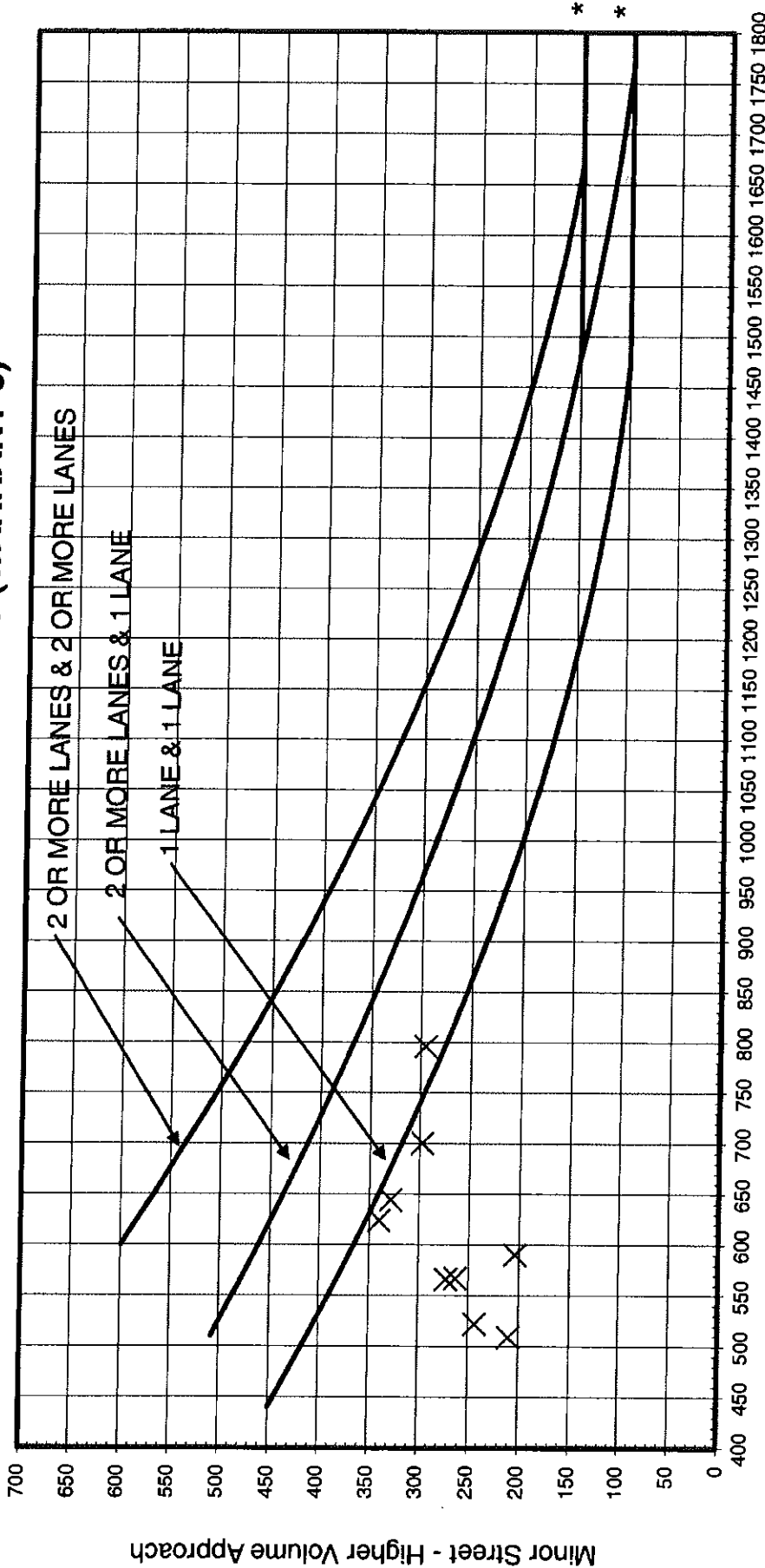
Major Road = Superior Ave
 Minor Road = Terrace Rd
 Road Location = Urban

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	June 2, 2011	7:00 AM	10:00 AM	
Thursday	June 2, 2011	11:00 AM	2:00 PM	
Thursday	June 2, 2011	3:00 PM	6:00 PM	

Warrant 2 (Urban) = 5 Hours Meet YES

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



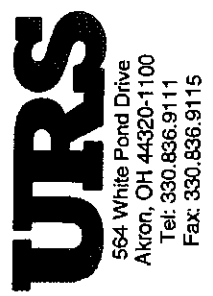
Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Superior Ave
 Minor Road = Terrace Rd
 Road Location = Urban

Warrant 3 (Urban) = 0 Hours Meet. Warrant Met? NO

Day of Week	Date & Year	Hours From	Hours To	Weather
Thursday	June 2, 2011	7:00 AM	10:00 AM	
Thursday	June 2, 2011	11:00 AM	2:00 PM	
Thursday	June 2, 2011	3:00 PM	6:00 PM	



15-Minute Count Data

Terrace Rd and Belmore Rd



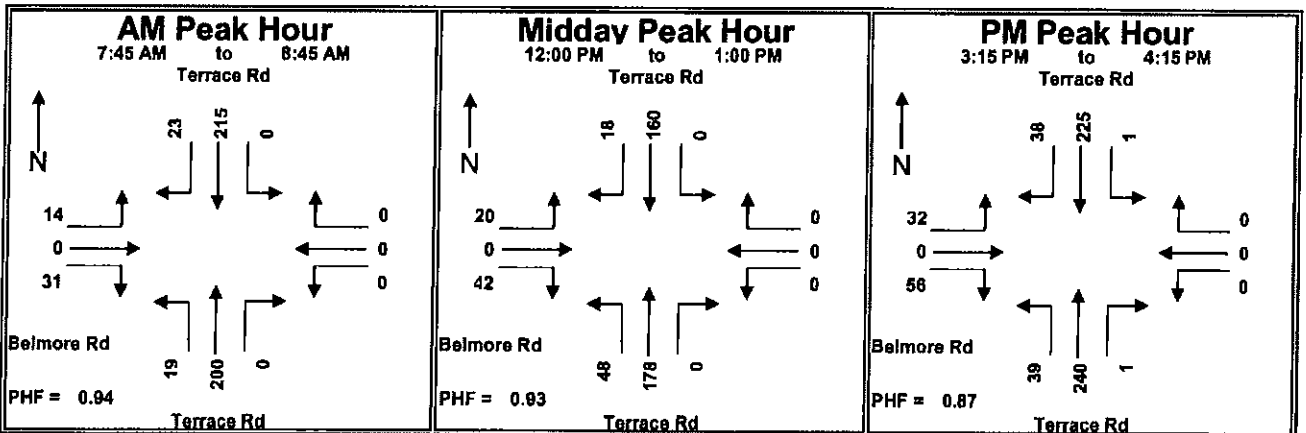
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.884	Thursday	May 26, 2011	7:00 AM	10:00 AM	
0.884	Thursday	May 26, 2011	11:00 AM	2:00 PM	
0.884	Thursday	May 26, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Belmore Rd Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	267	1615	1	1	2	1601	217	0	3703	185	1	355	4	0	0	0	0	541	4244
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 1%				Percent Trucks = 0%					
ADT	403	2436	2	2	3	2415	327	0	5586	279	2	536	6	0	0	0	0	816	6402



Notes:

Terrace/Belmore
 Bus Counts
 May 26, 2011

File Name : 2304-5-26-2011
 Site Code : 00052611
 Start Date : 05/26/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30 AM	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
08:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	
11:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	1	3	0	3	0	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
01:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	
Total	0	0	0	0	0	0	0	0	0	1	3	0	3	0	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	1	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
03:30 PM	0	0	0	0	0	0	0	0	0	0	4	0	1	0	0	0	
03:45 PM	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	
Total	1	0	0	0	0	0	0	0	0	2	6	0	4	0	0	0	
04:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	

Terrace/Belmore
 Bus Counts
 May 26, 2011

File Name : 2304-5-26-2011
 Site Code : 00052611
 Start Date : 05/26/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	1	4	0	0	0	0	0	0	0	10	16	0	13	0	0	0	
Approch %	20.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.5	61.5	0.0	100.0	0.0	0.0	0.0	
Total %	2.3	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	36.4	0.0	29.5	0.0	0.0	0.0	

15-Minute Count Data

Terrace Ped and Belmore Ped



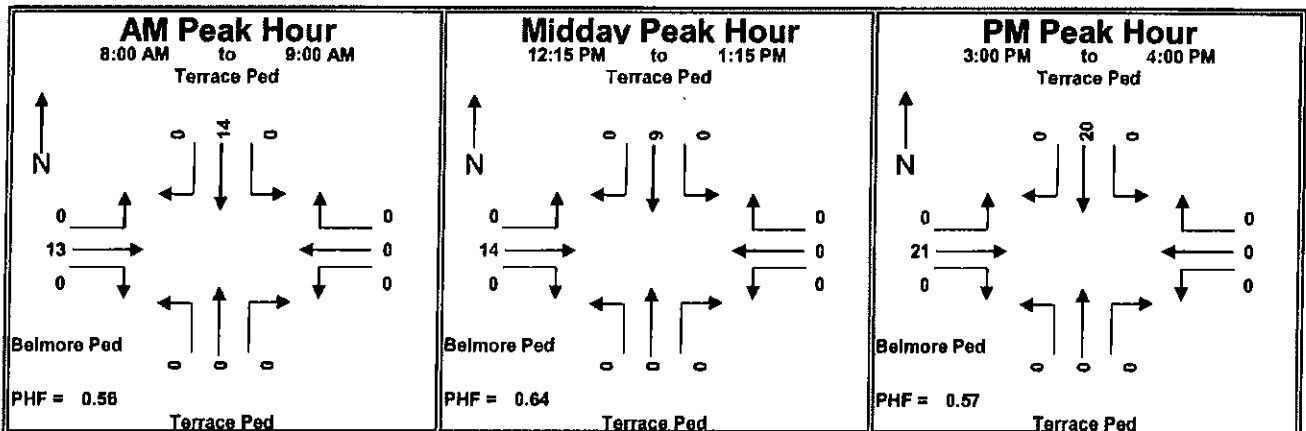
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.884	Thursday	May 26, 2011	7:00 AM	10:00 AM	
0.884	Thursday	May 26, 2011	11:00 AM	2:00 PM	
0.884	Thursday	May 26, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Ped Northbound				Terrace Ped Southbound				Total North South	Belmore Ped Eastbound				Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	0	0	0	0	85	0	0	85	0	124	0	0	0	0	0	0	124	209
ADT	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
7:00 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	3
7:15 AM	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	4
7:30 AM	0	0	0	0	0	4	0	0	4	0	2	0	0	0	0	0	0	2	6
7:45 AM	0	0	0	0	0	3	0	0	3	0	1	0	0	0	0	0	0	1	4
8:00 AM	0	0	0	0	0	7	0	0	7	0	5	0	0	0	0	0	0	5	12
8:15 AM	0	0	0	0	0	3	0	0	3	0	2	0	0	0	0	0	0	2	5
8:30 AM	0	0	0	0	0	1	0	0	1	0	3	0	0	0	0	0	0	3	4
8:45 AM	0	0	0	0	0	3	0	0	3	0	3	0	0	0	0	0	0	3	6
9:00 AM	0	0	0	0	0	2	0	0	2	0	2	0	0	0	0	0	0	2	4
9:15 AM	0	0	0	0	0	2	0	0	2	0	2	0	0	0	0	0	0	2	4
9:30 AM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
9:45 AM	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	2
11:00 AM	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	5
11:15 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	2
11:30 AM	0	0	0	0	0	1	0	0	1	0	3	0	0	0	0	0	0	3	4
11:45 AM	0	0	0	0	0	1	0	0	1	0	5	0	0	0	0	0	0	5	6
12:00 PM	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	2
12:15 PM	0	0	0	0	0	4	0	0	4	0	5	0	0	0	0	0	0	5	9
12:30 PM	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0	0	2	3
12:45 PM	0	0	0	0	0	3	0	0	3	0	5	0	0	0	0	0	0	5	8
1:00 PM	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0	0	2	3
1:15 PM	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	2
1:30 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	3
1:45 PM	0	0	0	0	0	2	0	0	2	0	3	0	0	0	0	0	0	3	5
3:00 PM	0	0	0	0	0	4	0	0	4	0	14	0	0	0	0	0	0	14	18
3:15 PM	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	0	0	0	10
3:30 PM	0	0	0	0	0	3	0	0	3	0	5	0	0	0	0	0	0	5	8
3:45 PM	0	0	0	0	0	3	0	0	3	0	2	0	0	0	0	0	0	2	5
4:00 PM	0	0	0	0	0	2	0	0	2	0	6	0	0	0	0	0	0	6	8
4:15 PM	0	0	0	0	0	2	0	0	2	0	3	0	0	0	0	0	0	3	5
4:30 PM	0	0	0	0	0	2	0	0	2	0	11	0	0	0	0	0	0	11	13
4:45 PM	0	0	0	0	0	1	0	0	1	0	3	0	0	0	0	0	0	3	4
5:00 PM	0	0	0	0	0	3	0	0	3	0	7	0	0	0	0	0	0	7	10
5:15 PM	0	0	0	0	0	4	0	0	4	0	3	0	0	0	0	0	0	3	7
5:30 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	3
5:45 PM	0	0	0	0	0	5	0	0	5	0	6	0	0	0	0	0	0	6	11



Notes:

SIGNAL WARRANT



INTERSECTION: Terrace Rd and Seimere Rd
 LOCATION IN CITY/VILLAGE/RURAL: / / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 0 W: 1
 PRESENTLY SIGNALIZED? Yes _____ DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

ADDITIONAL ITEMS ATTACHED

- SPEED DATA
- DELAY ANALYSIS
- TIME/SPACE DIAGRAM
- GROUND PHOTOGRAPHS
- AERIAL PHOTOGRAPHS
- DOCUMENTATION/EXPLANATION

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level:..... NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians:.....
 Hours with 190 or more pedestrians:.....
 Pedestrian crossing time (t):.....
 Number of gaps greater than (t) during period:.....
 Warrant Satisfied?.....

WARRANT #5 (SCHOOL CROSSING)
 On approved school route?..... NO
 Gap analysis made during period from:..... to
 Number of vehicles during analysis period:.....
 Pedestrian crossing time (t):.....
 Number of gaps greater than (t) during period:.....
 Approximate vehicular speed:.....
 Number of children crossing during period:.....
 Warrant Satisfied?..... NO

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is:..... TWO-WAY
 Distance to nearest signal in each direction on major street:.....
 Time space diagram (attached) shows that this location can be implemented into a system:.....
 Warrant Satisfied?..... NO

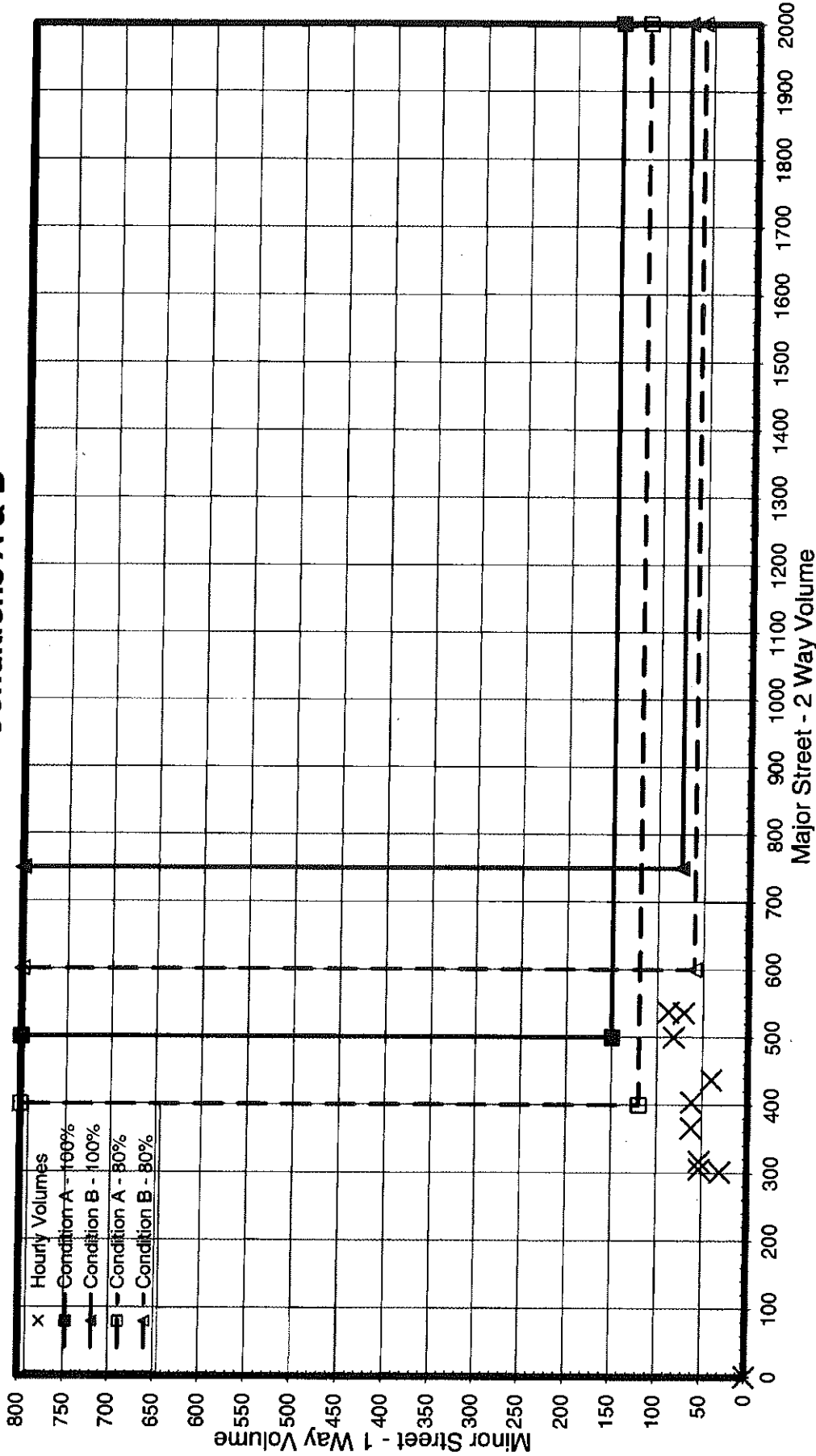
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures:.....
 Number of accidents per year of a type which could be prevented by signalization:.....
 80% of warrant #1 or #2 satisfied:.....
 Will signalization disrupt progressive movement?.....
 Warrant Satisfied?..... NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes:.....
 At least 1000 V.P.H. during weekday peak hour:.....
 5-Year projection meets Warrant 1, 2, or 3:.....
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday:.....
 Meets Characteristic requirements?.....
 Warrant Satisfied?..... NO

COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES		WARRANT #1						WARRANT #2		WARRANT #3	
		MAJOR 2-WAY	MINOR 1-WAY	CONDITION A		CONDITION B		FOUR HOUR	PEAK HOUR				
		100%	80%	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	80%	100%		
NORM	1	600	150	400	120	750	75	600	60				
70%	2+	350	105	280	84	525	53	420	42				
	2+	420	140	336	112	630	70	504	56				
MID-1AM	0	0	0	0	0	0	0	0	0				
1AM-2AM	0	0	0	0	0	0	0	0	0				
2AM-3AM	0	0	0	0	0	0	0	0	0				
3AM-4AM	0	0	0	0	0	0	0	0	0				
4AM-5AM	0	0	0	0	0	0	0	0	0				
5AM-6AM	0	0	0	0	0	0	0	0	0				
6AM-7AM	0	0	0	0	0	0	0	0	0				
7AM-8AM	305	53	0	0	0	0	0	0	0				
8AM-9AM	437	40	0	X	0	0	0	0	0				
9AM-10AM	301	30	0	0	0	0	0	0	0				
10AM-11AM	0	0	0	0	0	0	0	0	0				
11AM-NOON	317	53	0	0	0	0	0	0	0				
NOON-1PM	404	62	0	X	0	0	0	0	0				
1PM-2PM	366	62	0	0	0	0	0	0	0				
2PM-3PM	0	0	0	0	0	0	0	0	0				
3PM-4PM	500	82	0	0	0	0	0	0	0				
4PM-5PM	537	88	0	X	0	X	X	X	X				
5PM-6PM	536	71	0	X	0	X	X	X	X				
6PM-7PM	0	0	0	0	0	0	0	0	0				
7PM-8PM	0	0	0	0	0	0	0	0	0				
8PM-9PM	0	0	0	0	0	0	0	0	0				
9PM-10PM	0	0	0	0	0	0	0	0	0				
10PM-11PM	0	0	0	0	0	0	0	0	0				
11PM-MID	0	0	0	0	0	0	0	0	0				
HOURS MET		0	0	0	0	0	0	0	0				
WARRANT SATISFIED?		NO	NO	NO	NO	NO	NO	NO	NO				

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

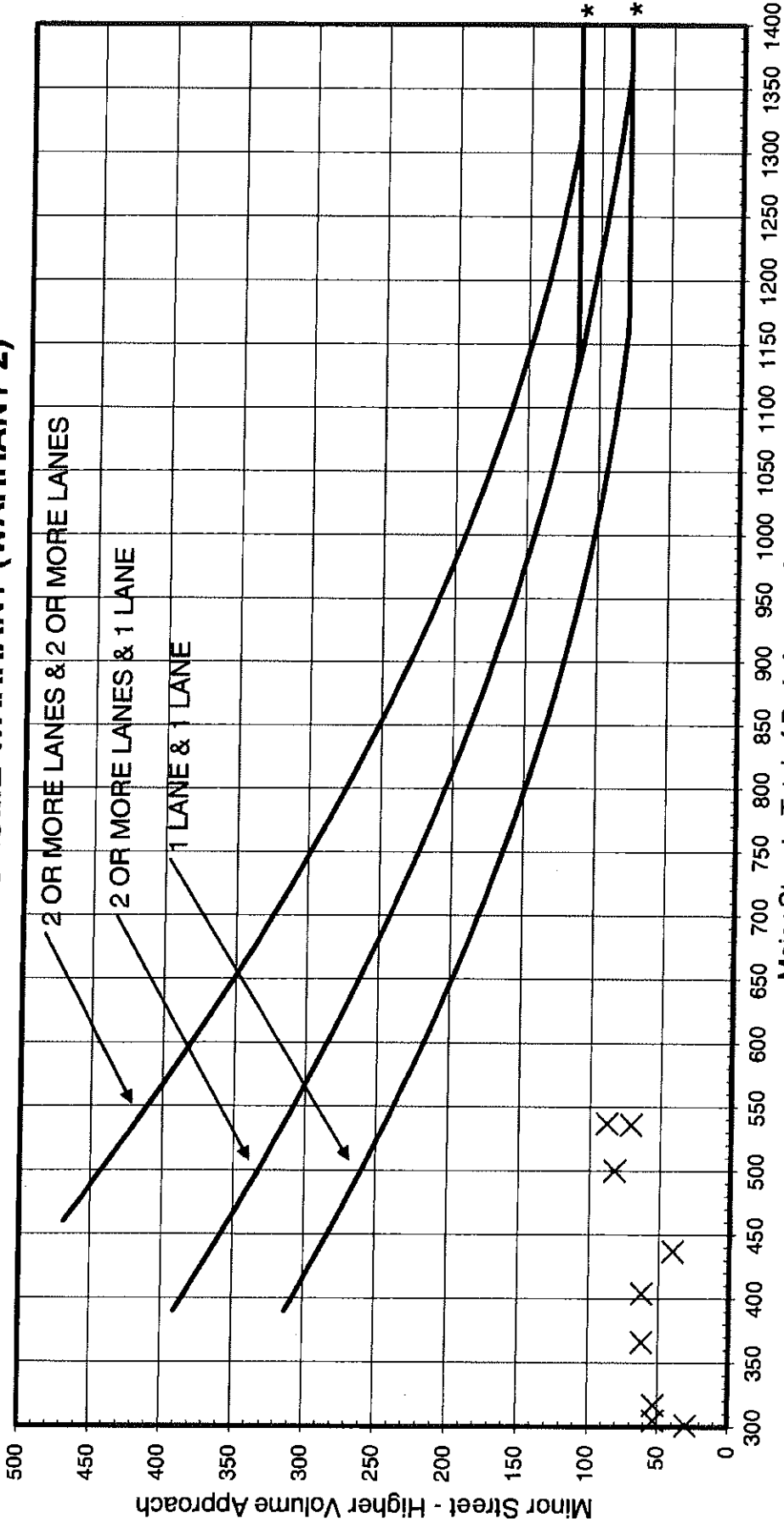
WARRANT 1 - Conditions A & B



Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	May 26, 2011	7:00 AM	10:00 AM	
Thursday	May 26, 2011	11:00 AM	2:00 PM	
Thursday	May 26, 2011	3:00 PM	6:00 PM	

Lanes		Warrant Met?	
Major Road = Terrace Rd	1	Condition A (100%) =	No
Minor Road = Belmont Rd	1	Condition B (100%) =	No
Road Location = Urban		Condition A (80%) =	No
		Condition B (80%) =	No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Ferrace Rd Lanes 1

Minor Road = Belmore Rd Lanes 1

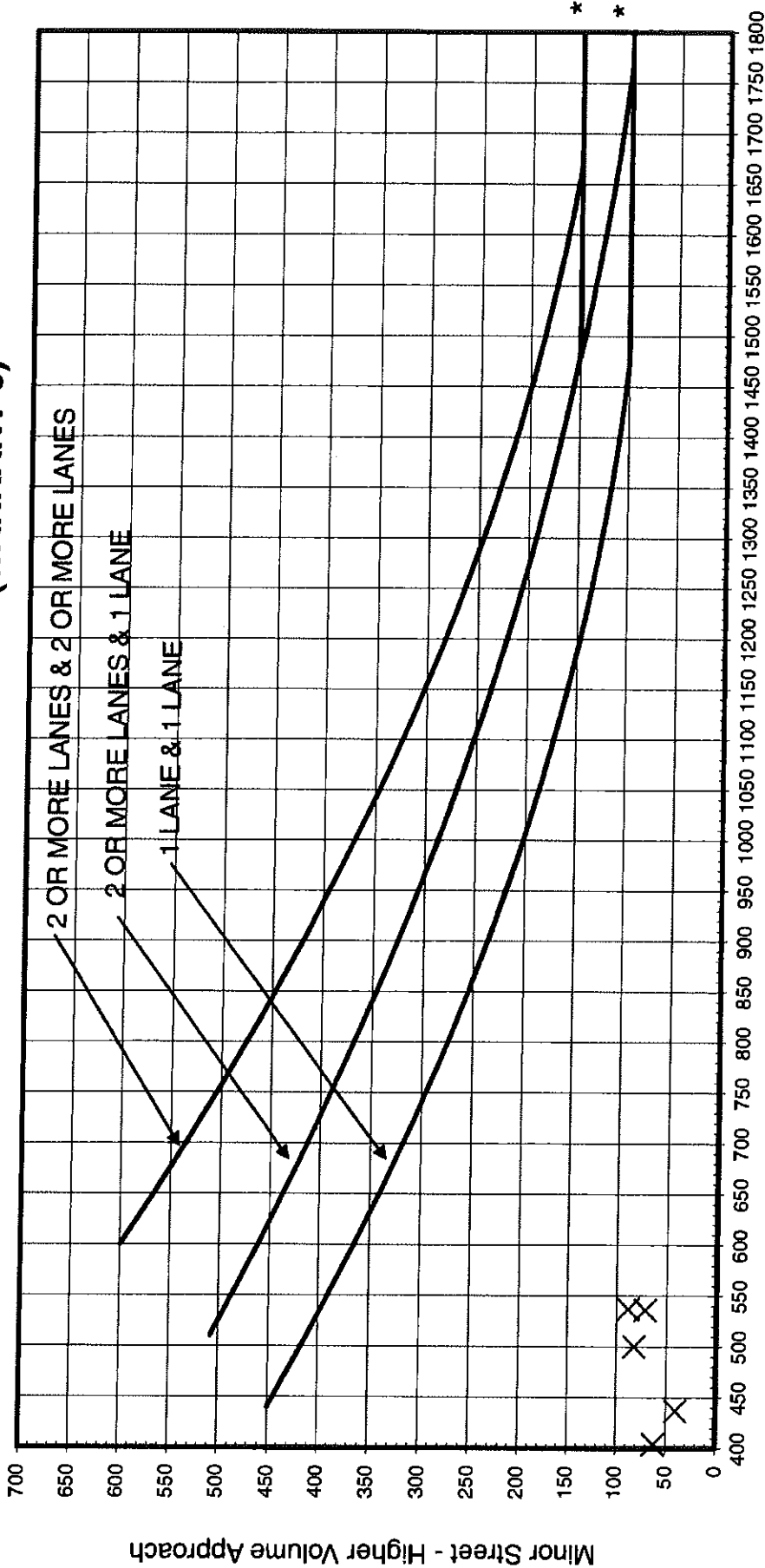
Road Location = Urban

Warrant 2 (Urban) = 0 Hours Meet NO Warrant Met?

Day of Week	Date & Year	From	To	Weather
Thursday	May 26, 2011	7:00 AM	10:00 AM	
Thursday	May 26, 2011	11:00 AM	2:00 PM	
Thursday	May 26, 2011	3:00 PM	6:00 PM	

URS
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 Fax: 330.836.9115

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

* NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Terrace Rd
 Minor Road = Belmore Rd
 Road Location = Urban

Lanes
1
1

Warrant 3 (Urban) = 0 Hours Meet
 Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Thursday	May 26, 2011	7:00 AM	10:00 AM	
Thursday	May 26, 2011	11:00 AM	2:00 PM	
Thursday	May 26, 2011	3:00 PM	6:00 PM	

URS

564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data

Terrace Rd and Forest Hills Blvd



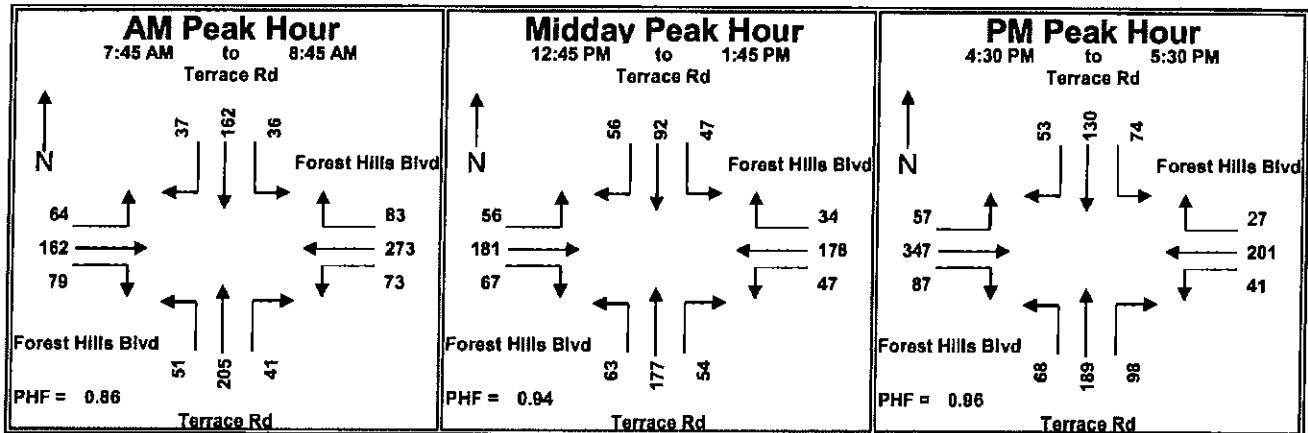
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.898	Wednesday	May 25, 2011	7:00 AM	10:00 AM	
0.898	Wednesday	May 25, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 25, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Forest Hills Blvd Eastbound				Forest Hills Blvd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	500	1352	614	3	407	1125	396	2	4294	454	1749	576	5	436	1753	405	0	5373	9667
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	766	2072	788	5	624	1724	607	3	6580	696	2680	883	8	668	2686	621	0	8234	14814



Notes:

Terrace/Forrest Hills Blvd
 Bus Counts
 May 25, 2011

File Name : 2304-5-25-2011 1
 Site Code : 00052511
 Start Date : 05/25/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
08:15 AM	0	2	0	0	0	1	1	0	0	3	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
08:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Total	0	2	0	0	0	2	1	0	0	5	0	0	0	0	0	0	
09:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
09:30 AM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	1	0	0	0	4	0	0	0	1	0	0	0	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:15 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:30 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	3	0	0	0	0	0	0	0	3	0	0	0	1	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
2:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	2	0	0	0	0	1	0	0	2	0	0	0	0	0	0	
01:00 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
01:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:30 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
01:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	2	0	0	1	0	0	0	0	2	0	0	0	0	0	0	
Grand Total	0	14	0	0	1	6	2	0	0	16	0	0	0	1	0	0	
Apprch %	0.0	100.0	0.0	0.0	11.1	66.7	22.2	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	
Total %	0.0	35.0	0.0	0.0	2.5	15.0	5.0	0.0	0.0	40.0	0.0	0.0	0.0	2.5	0.0	0.0	

Terrace/Forrest Hills Blvd
 Bus Counts
 May 25, 2011

File Name : 2304-5-25-2011 2
 Site Code : 00052511
 Start Date : 05/25/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
03:30 PM	0	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
03:45 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Total	0	3	0	0	1	0	0	0	0	3	0	0	0	0	0	0	
04:00 PM	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	2	0	0	1	2	0	0	0	0	0	0	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Grand Total	0	3	0	0	1	2	0	0	1	5	0	0	0	1	0	0	
Apprch %	0.0	100.0	0.0	0.0	33.3	66.7	0.0	0.0	16.7	83.3	0.0	0.0	0.0	100.0	0.0	0.0	
Total %	0.0	23.1	0.0	0.0	7.7	15.4	0.0	0.0	7.7	38.5	0.0	0.0	0.0	7.7	0.0	0.0	

15-Minute Count Data

Terrace Ped and Forest Hills Ped



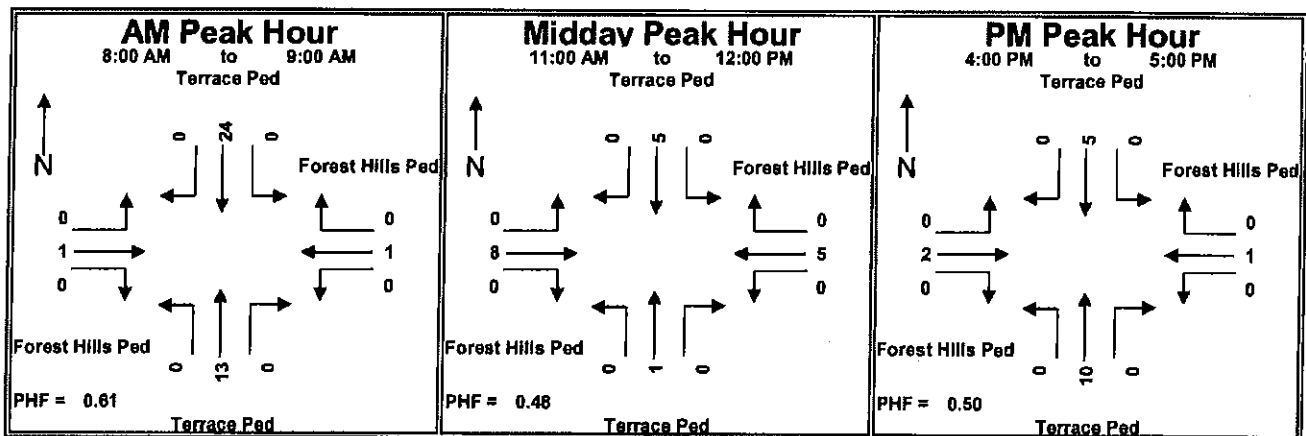
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
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0.898	Wednesday	May 25, 2011	11:00 AM	2:00 PM	
0.898	Wednesday	May 25, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Ped Northbound				Terrace Ped Southbound				Total North South	Forest Hills Ped Eastbound				Forest Hills Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	47	0	0	0	69	0	0	116	0	19	0	0	0	12	0	0	31	147
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	72	0	0	0	106	0	0	178	0	29	0	0	0	18	0	0	48	225
7:00 AM	0	1	0	0	0	1	0	0	2	0	0	0	0	0	3	0	0	3	5
7:15 AM	0	4	0	0	0	3	0	0	7	0	0	0	0	0	0	0	0	0	7
7:30 AM	0	2	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	3
7:45 AM	0	1	0	0	0	5	0	0	6	0	0	0	0	0	0	0	0	0	6
8:00 AM	0	7	0	0	0	8	0	0	15	0	0	0	0	0	1	0	0	1	16
8:15 AM	0	5	0	0	0	2	0	0	7	0	0	0	0	0	0	0	0	0	7
8:30 AM	0	0	0	0	0	6	0	0	6	0	1	0	0	0	0	0	0	1	7
8:45 AM	0	1	0	0	0	8	0	0	9	0	0	0	0	0	0	0	0	0	9
9:00 AM	0	0	0	0	0	2	0	0	2	0	1	0	0	0	0	0	0	1	3
9:15 AM	0	2	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	3
9:30 AM	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	2
9:45 AM	0	0	0	0	0	4	0	0	4	0	0	0	0	0	2	0	0	2	6
11:00 AM	0	0	0	0	0	4	0	0	4	0	5	0	0	0	1	0	0	6	10
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
11:30 AM	0	1	0	0	0	1	0	0	2	0	2	0	0	0	3	0	0	5	7
11:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
12:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
1:00 PM	0	0	0	0	0	3	0	0	3	0	1	0	0	0	0	0	0	1	4
1:15 PM	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
1:30 PM	0	1	0	0	0	3	0	0	4	0	0	0	0	0	0	0	0	0	4
1:45 PM	0	1	0	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0	3
3:00 PM	0	2	0	0	0	2	0	0	4	0	2	0	0	0	0	0	0	2	6
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
4:00 PM	0	5	0	0	0	1	0	0	6	0	2	0	0	0	1	0	0	3	9
4:15 PM	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2
4:45 PM	0	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
5:00 PM	0	2	0	0	0	1	0	0	3	0	1	0	0	0	0	0	0	1	4
5:15 PM	0	3	0	0	0	2	0	0	5	0	1	0	0	0	0	0	0	1	6
5:30 PM	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2



Notes:

SIGNAL WARRANT



INTERSECTION: Terence Rd and Forest Hills Blvd
 LOCATED IN CITY/VILLAGE/RURAL: 7 / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 2 W: 2
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: _____ RITE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level..... **NO**
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians.....
 Hours with 190 or more pedestrians.....
 Pedestrian crossing time (t).....
 Number of gaps greater than (t) during period.....
 Warrant Satisfied?.....

WARRANT #5 (SCHOOL CROSSING)
 On approved school route?..... **NO**
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period.....
 Pedestrian crossing time (t).....
 Number of gaps greater than (t) during period.....
 Approximate vehicular speed.....
 Number of children crossing during period.....
 Warrant Satisfied?..... **NO**

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is..... **TWO-WAY**
 Distance to nearest signal in each direction on major street.....
 Time space diagram (attached) shows that this location can be implemented into a system.....
 Warrant Satisfied?..... **NO**

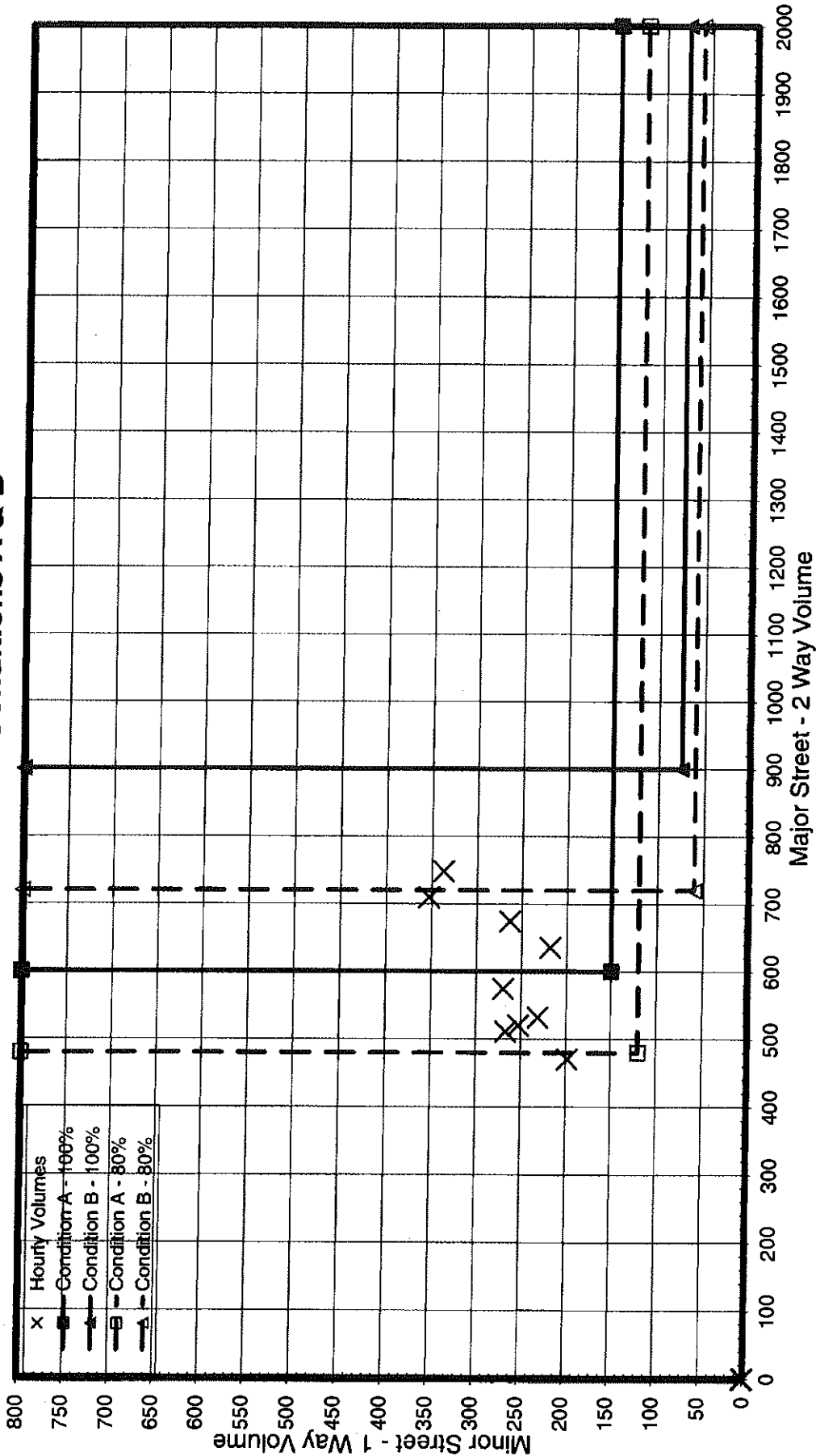
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures.....
 Number of accidents per year of a type which could be prevented by signalization.....
 80% of warrant #1 or #2 satisfied.....
 Will signalization disrupt progressive movement?.....
 Warrant Satisfied?..... **NO**

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes.....
 At least 1000 V.P.H. during weekday peak hour.....
 5-Year projection meets Warrant 1, 2, or 3.....
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday.....
 Meets Characteristic requirements?.....
 Warrant Satisfied?..... **NO**

COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES				WARRANT #1						WARRANT #2		WARRANT #3	
		MAJOR ST		MINOR ST		100%		80%		100%		80%		#2 FOUR HOUR	#3 PEAK HOUR
		1-WAY	2-WAY	1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR		
NORM	2+	X		X		500	156	400	120	750	75	600	60		
	2+		X			600	200	480	160	900	100	720	80		
70%	2+					350	105	280	84	525	53	420	42		
						420	140	336	112	630	70	504	56		
MID-1AM	0	0	0	0	0										
1AM-2AM	0	0	0	0	0										
2AM-3AM	0	0	0	0	0										
3AM-4AM	0	0	0	0	0										
4AM-5AM	0	0	0	0	0										
5AM-6AM	0	0	0	0	0										
6AM-7AM	0	0	0	0	0										
7AM-8AM	635	218	210	210	X	X	X	X	X	X	X	X			
8AM-9AM	674	263	214	214	X	X	X	X	X	X	X	X			
9AM-10AM	532	231	160	160	X	X	X	X	X	X	X	X			
10AM-11AM	0	1	0	0											
11AM-NOON	470	198	196	196	X	X	X	X	X	X	X	X			
NOON-1PM	511	267	199	199	X	X	X	X	X	X	X	X			
1PM-2PM	574	270	196	196	X	X	X	X	X	X	X	X			
2PM-3PM	0	0	0	0											
3PM-4PM	520	229	253	253	X	X	X	X	X	X	X	X			
4PM-5PM	748	337	243	243	X	X	X	X	X	X	X	X			
5PM-6PM	709	353	257	257	X	X	X	X	X	X	X	X			
6PM-7PM	0	0	0	0											
7PM-8PM	0	0	0	0											
8PM-9PM	0	0	0	0											
9PM-10PM	0	0	0	0											
10PM-11PM	0	0	0	0											
11PM-MID	0	0	0	0											
HOURS MET		4	NO	B	YES	0	NO	1	NO	4	YES	0	NO		
WARRANT SATISFIED?													4	YES	NO

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

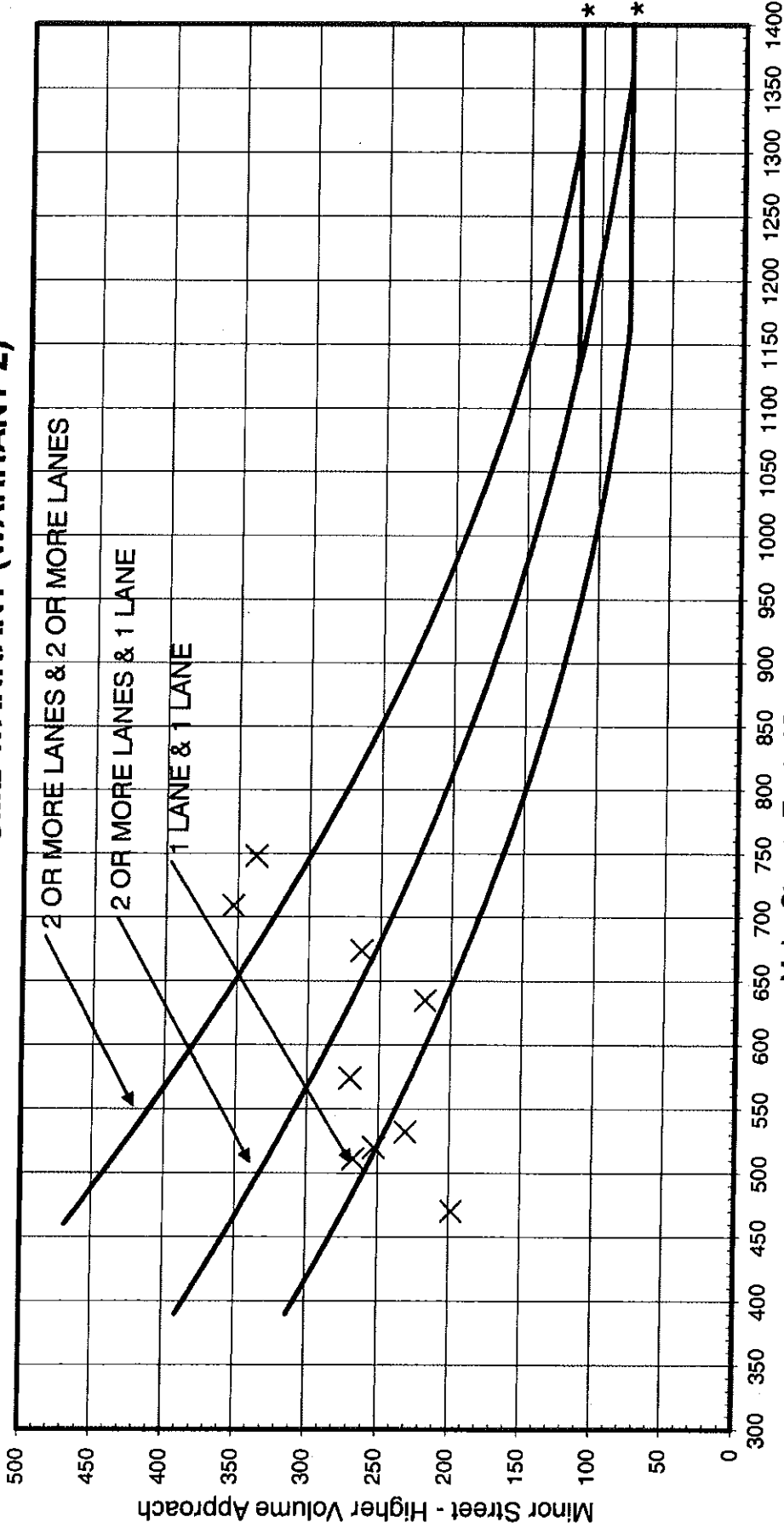


Major Road =	Forest Hills Blvd	Lanes	2
Minor Road =	Terrace Rd		1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	4 Hours Meet	No	
Condition B (100%) =	0 Hours Meet	No	
Condition A (80%) =	8 Hours Meet	Yes	
Condition B (80%) =	1 Hours Meet	No	

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	May 25, 2011	7:00 AM	10:00 AM	
Wednesday	May 25, 2011	11:00 AM	2:00 PM	
Wednesday	May 25, 2011	3:00 PM	6:00 PM	

564 White Pond Drive
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FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

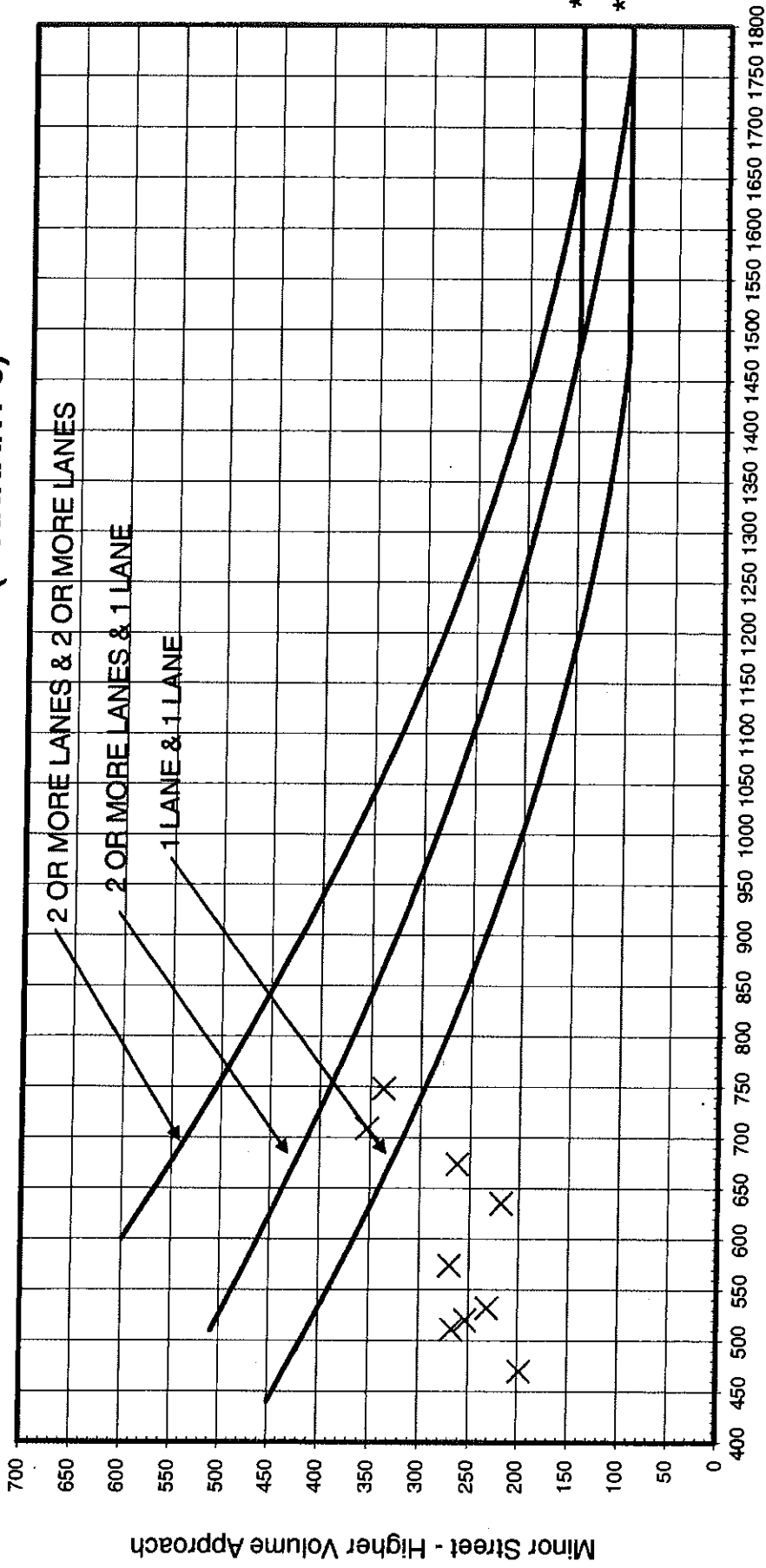
Major Road = Lanes
 Minor Road = Lanes
 Road Location =
 Warrant 2 (Urban) = Warrant Met?

Day of Week	Date & Year	From	To	Weather
Wednesday	May 25, 2011	7:00 AM	10:00 AM	
Wednesday	May 25, 2011	11:00 AM	2:00 PM	
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PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

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Wednesday	May 25, 2011	11:00 AM	2:00 PM	
Wednesday	May 25, 2011	3:00 PM	6:00 PM	

Major Road = Forest Hills Blvd
 Minor Road = Terrace Rd
 Road Location = Urban

Lanes:

Warrant 3 (Urban) = Hours Meet Warrant Met?

15-Minute Count Data Terrace Rd and Lee Blvd



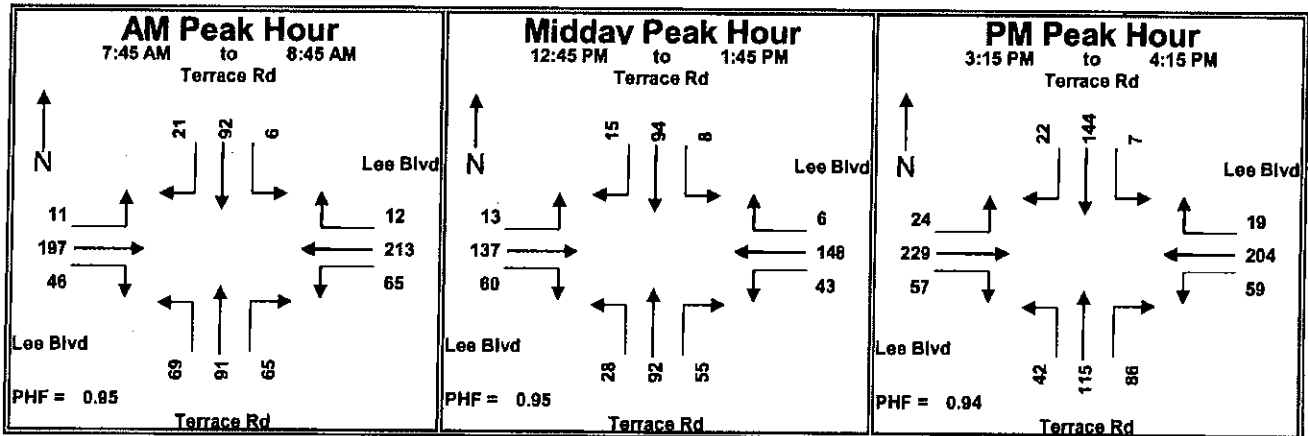
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Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.944	Wednesday	June 1, 2011	7:00 AM	10:00 AM	
0.944	Wednesday	June 1, 2011	11:00 AM	2:00 PM	
0.944	Wednesday	June 1, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Lee Blvd Eastbound				Lee Blvd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	336	858	496	6	75	955	150	6	2870	127	1429	423	1	406	1362	106	0	3853	6723
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	541	1382	799	10	121	1538	242	8	4623	205	2302	681	2	654	2194	171	0	6207	10830
7:00 AM	6	12	14	0	0	12	2	0	46	0	22	7	0	7	23	1	0	60	106
7:15 AM	11	21	15	1	1	17	5	1	70	3	13	2	0	8	34	2	0	62	132
7:30 AM	10	20	10	0	1	17	4	1	62	2	26	7	0	11	39	1	0	86	148
7:45 AM	19	21	21	0	1	19	9	0	90	3	50	11	0	21	55	4	0	144	234
8:00 AM	21	20	21	0	1	24	7	0	94	1	48	8	0	13	54	2	0	126	220
8:15 AM	13	26	5	0	2	26	1	0	73	4	56	13	0	8	46	3	0	130	203
8:30 AM	16	24	18	0	2	23	4	0	87	3	43	14	1	23	58	3	0	144	231
8:45 AM	12	24	11	0	4	27	4	0	82	3	33	7	0	9	33	3	0	88	170
9:00 AM	8	25	10	0	0	25	4	0	72	4	38	5	0	6	33	1	0	87	159
9:15 AM	4	10	9	0	0	21	1	0	45	1	22	8	0	7	26	3	0	67	112
9:30 AM	4	23	12	0	1	16	4	0	60	4	26	13	0	10	26	2	0	81	141
9:45 AM	6	24	11	0	0	25	6	0	72	2	25	8	0	13	44	3	0	95	167
11:00 AM	10	23	4	0	1	26	3	0	67	4	26	6	0	10	31	1	0	78	145
11:15 AM	6	20	17	0	1	29	2	0	75	1	28	7	0	12	27	2	0	77	152
11:30 AM	5	16	13	0	0	24	6	0	64	4	31	7	0	5	38	2	0	87	151
11:45 AM	5	22	9	0	0	19	5	0	60	0	38	16	0	9	21	2	0	86	146
12:00 PM	7	22	7	0	3	29	3	0	71	0	35	14	0	9	30	5	0	93	164
12:15 PM	5	16	12	0	1	19	3	0	56	4	29	7	0	6	29	4	0	79	135
12:30 PM	9	28	7	0	4	17	3	0	68	3	35	2	0	6	36	5	0	87	155
12:45 PM	7	25	13	0	2	29	4	0	80	5	30	15	0	12	31	1	0	94	174
1:00 PM	11	21	13	0	1	24	3	0	73	1	41	10	0	12	37	3	0	104	177
1:15 PM	2	18	13	0	2	20	3	1	58	5	31	24	0	7	39	1	0	107	165
1:30 PM	8	28	16	1	3	21	5	0	81	2	35	11	0	12	41	1	0	102	183
1:45 PM	15	16	14	0	2	16	4	0	67	3	37	8	0	9	36	1	0	94	161
3:00 PM	7	31	15	0	4	45	4	0	106	2	52	9	0	17	39	3	0	122	228
3:15 PM	18	28	33	0	2	28	6	0	115	3	64	12	0	13	55	4	0	151	266
3:30 PM	6	22	18	0	0	33	5	1	84	7	52	11	0	13	49	8	0	140	224
3:45 PM	8	30	16	0	3	43	7	1	107	10	56	17	0	22	50	6	0	161	268
4:00 PM	10	35	19	0	2	40	4	0	110	4	57	17	0	11	50	1	0	140	250
4:15 PM	8	32	21	1	5	32	4	0	102	8	57	19	0	14	38	5	0	139	241
4:30 PM	11	34	7	0	2	35	4	0	93	7	43	15	0	17	41	3	0	126	219
4:45 PM	12	27	15	0	5	27	2	0	88	9	46	12	0	9	33	3	0	112	200
5:00 PM	12	30	16	0	5	36	3	0	102	5	55	29	0	6	34	4	0	133	235
5:15 PM	9	31	9	3	5	40	8	0	102	3	56	19	0	16	39	7	0	140	242
5:30 PM	11	29	19	0	7	36	2	0	104	3	43	15	0	12	33	2	0	108	212
5:45 PM	4	24	13	0	2	35	6	0	84	4	50	18	0	11	36	4	0	123	207



Notes:

Lee/Terrace
Bus Counts
June 1, 2011

File Name : 2304-6-1-20
Site Code : 00006111
Start Date : 06/01/2011
Page No : 1

Groups Printed- Bank 2

Start Time Factor	From North				From East				From South				From West				Int. Tot.
	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	
07:00 AM	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	3	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
08:00 AM	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	1	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	1	2	0	0	0	0	0	0	2	0	0	1	0	0	0	
09:30 AM	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	1	2	0	0	1	0	0	0	4	1	0	1	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
Total	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
01:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:30 PM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	
03:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	1	0	1	1	0	0	0	1	0	0	0	1	1	0	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	

Lee/Terrace
 Bus Counts
 June 1, 2011

File Name : 2304-6-1-20
 Site Code : 00006111
 Start Date : 06/01/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	1	4	5	0	1	4	0	0	1	6	1	0	4	7	1	0	3
Approch %	10.0	40.0	50.0	0.0	20.0	80.0	0.0	0.0	12.5	75.0	12.5	0.0	33.3	58.3	8.3	0.0	
Total %	2.9	11.4	14.3	0.0	2.9	11.4	0.0	0.0	2.9	17.1	2.9	0.0	11.4	20.0	2.9	0.0	

15-Minute Count Data Terrace Ped and Lee Ped



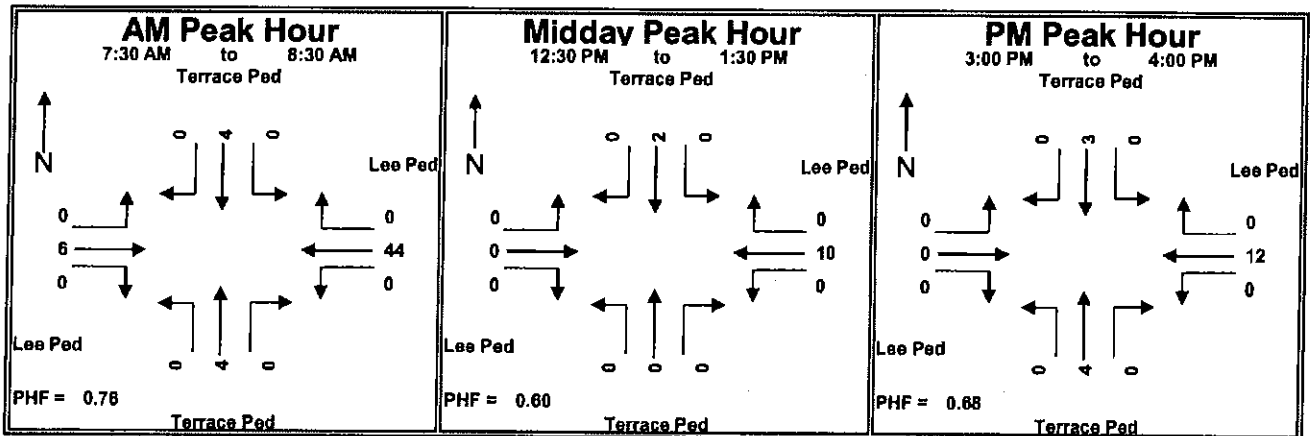
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.944	Wednesday	June 1, 2011	7:00 AM	10:00 AM	
0.944	Wednesday	June 1, 2011	11:00 AM	2:00 PM	
0.944	Wednesday	June 1, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.71
Intersection ID: 1

Start Time	Terrace Ped Northbound				Terrace Ped Southbound				Total North South	Lee Ped Eastbound				Lee Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	21	0	0	0	16	0	0	37	0	15	0	0	0	102	0	0	117	154
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	34	0	0	0	26	0	0	60	0	24	0	0	0	164	0	0	188	248
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:30 AM	0	1	0	0	0	0	0	0	1	0	0	0	0	9	0	0	9	10	
7:45 AM	0	1	0	0	0	1	0	0	2	0	1	0	0	16	0	0	17	19	
8:00 AM	0	2	0	0	0	3	0	0	5	0	2	0	0	12	0	0	14	19	
8:15 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	7	0	0	10	10	
8:30 AM	0	0	0	0	0	1	0	0	1	0	2	0	0	4	0	0	6	7	
8:45 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	6	0	0	9	9	
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3	
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	
9:30 AM	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	2	
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
11:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2	2	
11:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	
11:45 AM	0	2	0	0	0	0	0	0	2	0	0	0	0	1	0	0	1	3	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	2	0	0	2	0	0	0	0	2	0	0	2	4	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	5	
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3	
1:45 PM	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	2	
3:00 PM	0	2	0	0	0	2	0	0	4	0	0	0	0	3	0	0	3	7	
3:15 PM	0	0	0	0	0	1	0	0	1	0	0	0	0	5	0	0	5	6	
3:30 PM	0	1	0	0	0	0	0	0	1	0	0	0	0	4	0	0	4	5	
3:45 PM	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
4:00 PM	0	2	0	0	0	0	0	0	2	0	1	0	0	2	0	0	3	6	
4:15 PM	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	2	
4:30 PM	0	4	0	0	0	3	0	0	7	0	0	0	0	1	0	0	1	8	
4:45 PM	0	0	0	0	0	2	0	0	2	0	0	0	0	1	0	0	1	3	
5:00 PM	0	2	0	0	0	0	0	0	2	0	0	0	0	1	0	0	1	3	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	
5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	5	5	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	



Notes:

SIGNAL WARRANT



INTERSECTION: Terrace Rd and Leg Blvd
 LOCATED IN CITY/VILLAGE/RURAL: // Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 2 W: 2
 PRESENTLY SIGNALIZED? Yes
 MAINTAINING AGENCY: DOES 70% WARRANT APPLY? NO

CO: _____ RITE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____

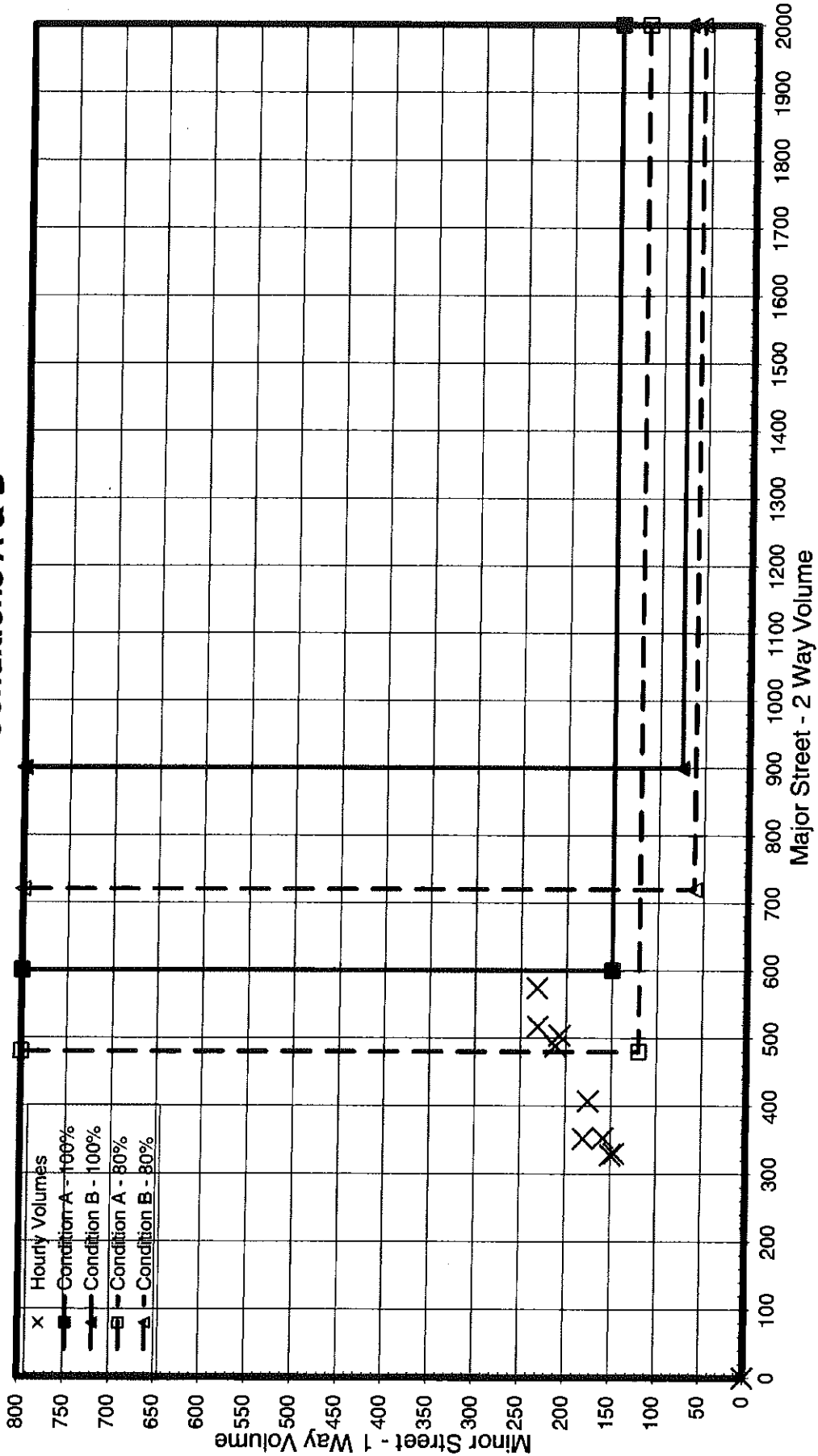
SECT: _____
 CKD BY: _____

OTHER (DESCRIBE):
 WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____
 WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from: _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____
 WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major streets: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____
 WARRANT #7 (CRASH EXPERIENCE)
 Adequate total of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____
 WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

COND- TION	NO. OF LANES	ADJUSTED HOURLY VOLUMES				WARRANT #1						WARRANT #2		WARRANT #3		
		MAJOR ST		MINOR ST		100%		80%		100%		80%			FOUR HOUR	PEAK HOUR
		2-WAY	1-WAY	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR			
NORM	1	X		X		500	150	400	120	750	75	600	60			
70%	2+	X				350	105	280	84	525	53	420	42			
	2+					420	140	335	112	630	70	504	56			
	MID-1AM	0	0	0	0											
	1AM-2AM	0	0	0	0											
	2AM-3AM	0	0	0	0											
	3AM-4AM	0	0	0	0											
	4AM-5AM	0	0	0	0											
	5AM-6AM	0	0	0	0											
	6AM-7AM	0	0	0	0											
	7AM-8AM	352	180	88	88	X	X	X	X	X	X	X	X			
	8AM-9AM	488	211	125	125	X	X	X	X	X	X	X	X			
	9AM-10AM	330	146	103	103	X	X	X	X	X	X	X	X			
	10AM-11AM	0	0	0	0											
	11AM-NOON	828	150	116	116	X	X	X	X	X	X	X	X			
	NOON-1PM	353	158	117	117	X	X	X	X	X	X	X	X			
	1PM-2PM	407	175	104	104	X	X	X	X	X	X	X	X			
	2PM-3PM	0	0	0	0											
	3PM-4PM	574	232	180	180	X	X	X	X	X	X	X	X			
	4PM-5PM	517	231	162	162	X	X	X	X	X	X	X	X			
	5PM-6PM	504	207	185	185	X	X	X	X	X	X	X	X			
	6PM-7PM	0	0	0	0											
	7PM-8PM	0	0	0	0											
	8PM-9PM	0	0	0	0											
	9PM-10PM	0	0	0	0											
	10PM-11PM	0	0	0	0											
	11PM-MID	0	0	0	0											
	HOURS MET		0	0	0	0	0	0	0	0	0	0	0	0	0	
	WARRANT SATISFIED?		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH
 ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B



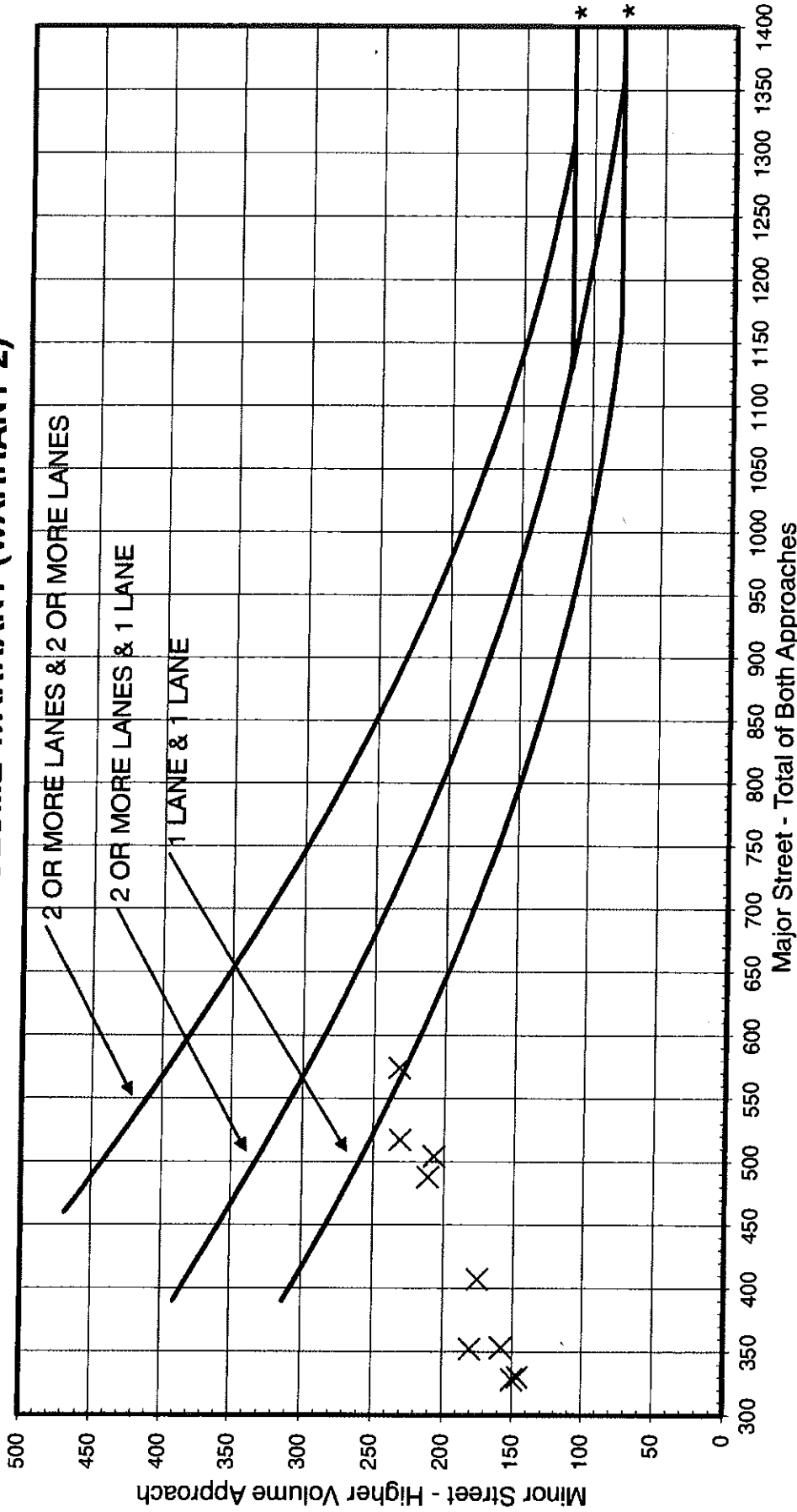
Major Road =	Lee Blvd	Lanes	2
Minor Road =	Terrace Rd		1
Road Location =	Urban	Warrant Met?	
Condition A (100%) =	0 Hours Meet	No	
Condition B (100%) =	0 Hours Meet	No	
Condition A (80%) =	4 Hours Meet	No	
Condition B (80%) =	0 Hours Meet	No	

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 1, 2011	7:00 AM	10:00 AM	
Wednesday	June 1, 2011	11:00 AM	2:00 PM	
Wednesday	June 1, 2011	3:00 PM	6:00 PM	

URS

564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

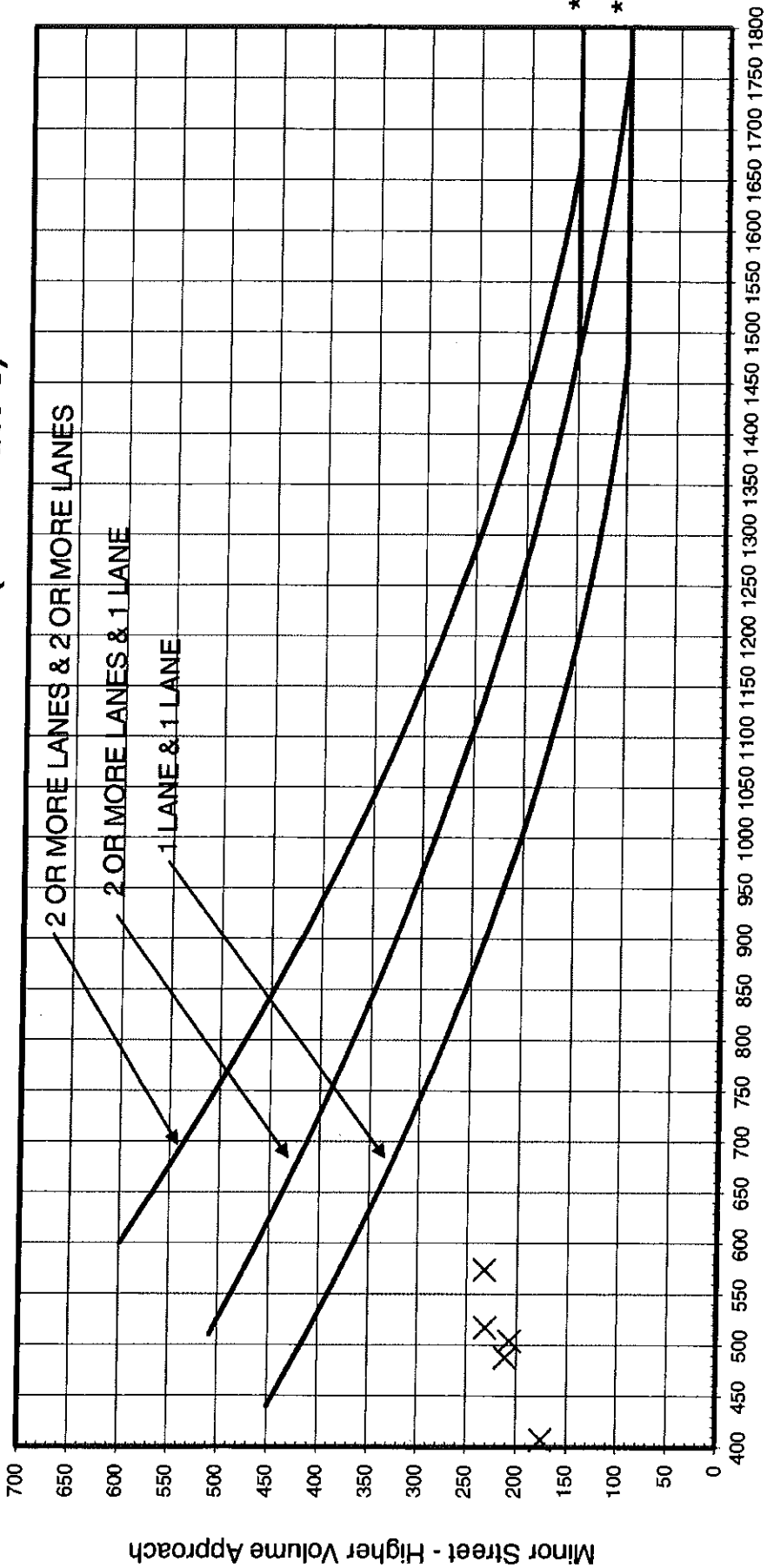
Major Road = Lee Blvd
 Minor Road = Terrace Rd
 Road Location = Urban

Warrant 2 (Urban) = 0 Hours Meet Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Wednesday	June 1, 2011	7:00 AM	10:00 AM	
Wednesday	June 1, 2011	11:00 AM	2:00 PM	
Wednesday	June 1, 2011	3:00 PM	6:00 PM	



PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lee Blvd
 Minor Road = Terrace Rd
 Road Location = Urban

Lanes
2
1

Warrant 3 (Urban) = 0 Hours Meet

Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Wednesday	June 1, 2011	7:00 AM	10:00 AM	
Wednesday	June 1, 2011	11:00 AM	2:00 PM	
Wednesday	June 1, 2011	3:00 PM	6:00 PM	

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15-Minute Count Data

Terrace Rd and Rosemont Rd and Marloes Ave



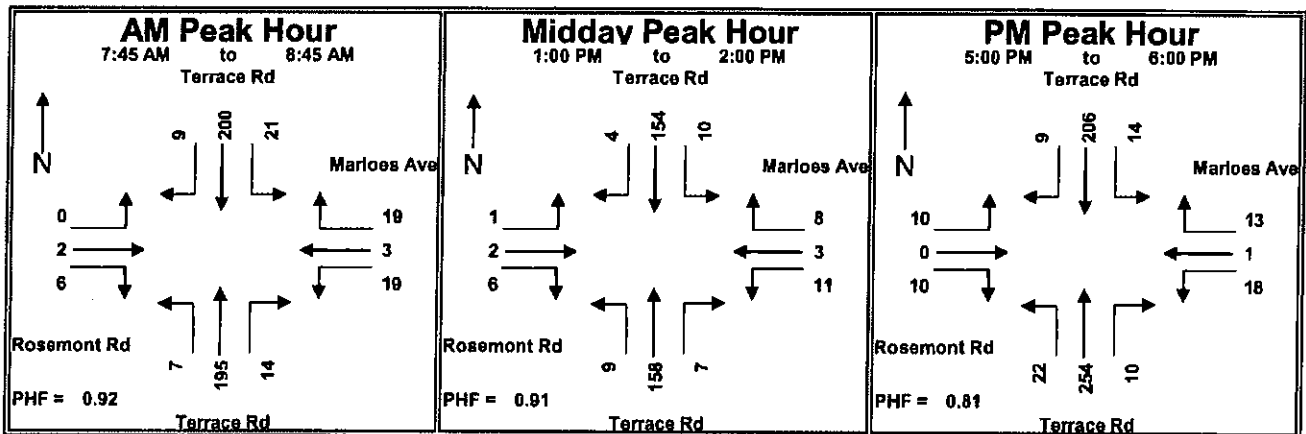
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.894	Thursday	May 26, 2011	7:00 AM	10:00 AM	
0.894	Thursday	May 26, 2011	11:00 AM	2:00 PM	
0.894	Thursday	May 26, 2011	3:00 PM	6:00 PM	

Roadway Classification:

ADT Factor: 1.70
Intersection ID: 1

Start Time	Terrace Rd Northbound				Terrace Rd Southbound				Total North South	Rosemont Rd Eastbound				Marloes Ave Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	73	1652	95	19	86	1443	63	13	3412	42	13	50	0	111	18	90	3	324	3736
	Percent Trucks = 1%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 1%					
ADT	111	2512	144	29	131	2194	96	20	5188	64	20	76	0	169	27	137	5	493	5680



Notes:

15-Minute Count Data

Terrace Ped and Rosemont Ped and Marloes Ped



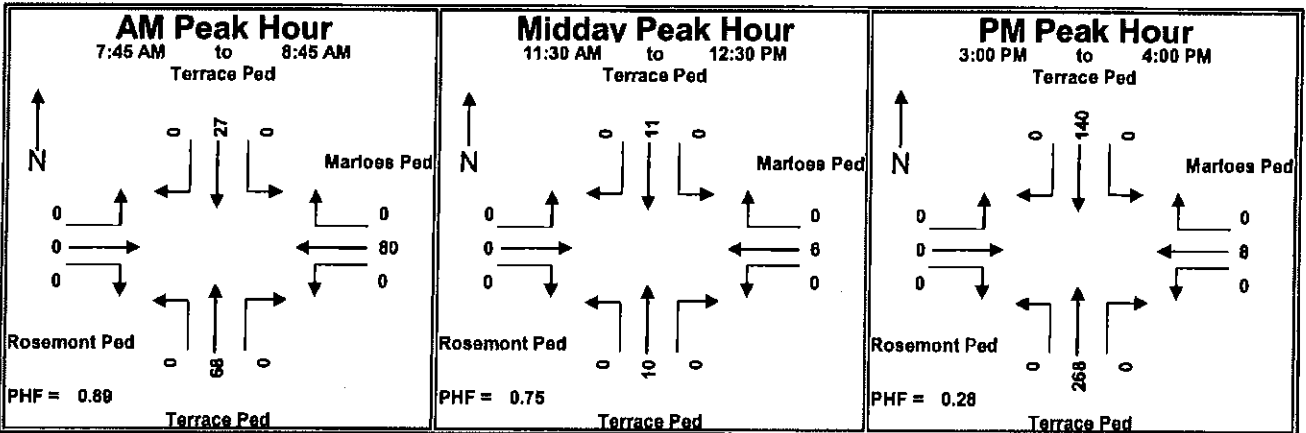
564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.894	Thursday	May 26, 2011	7:00 AM	10:00 AM	
0.894	Thursday	May 26, 2011	11:00 AM	2:00 PM	
0.894	Thursday	May 26, 2011	3:00 PM	6:00 PM	

Roadway Classification:

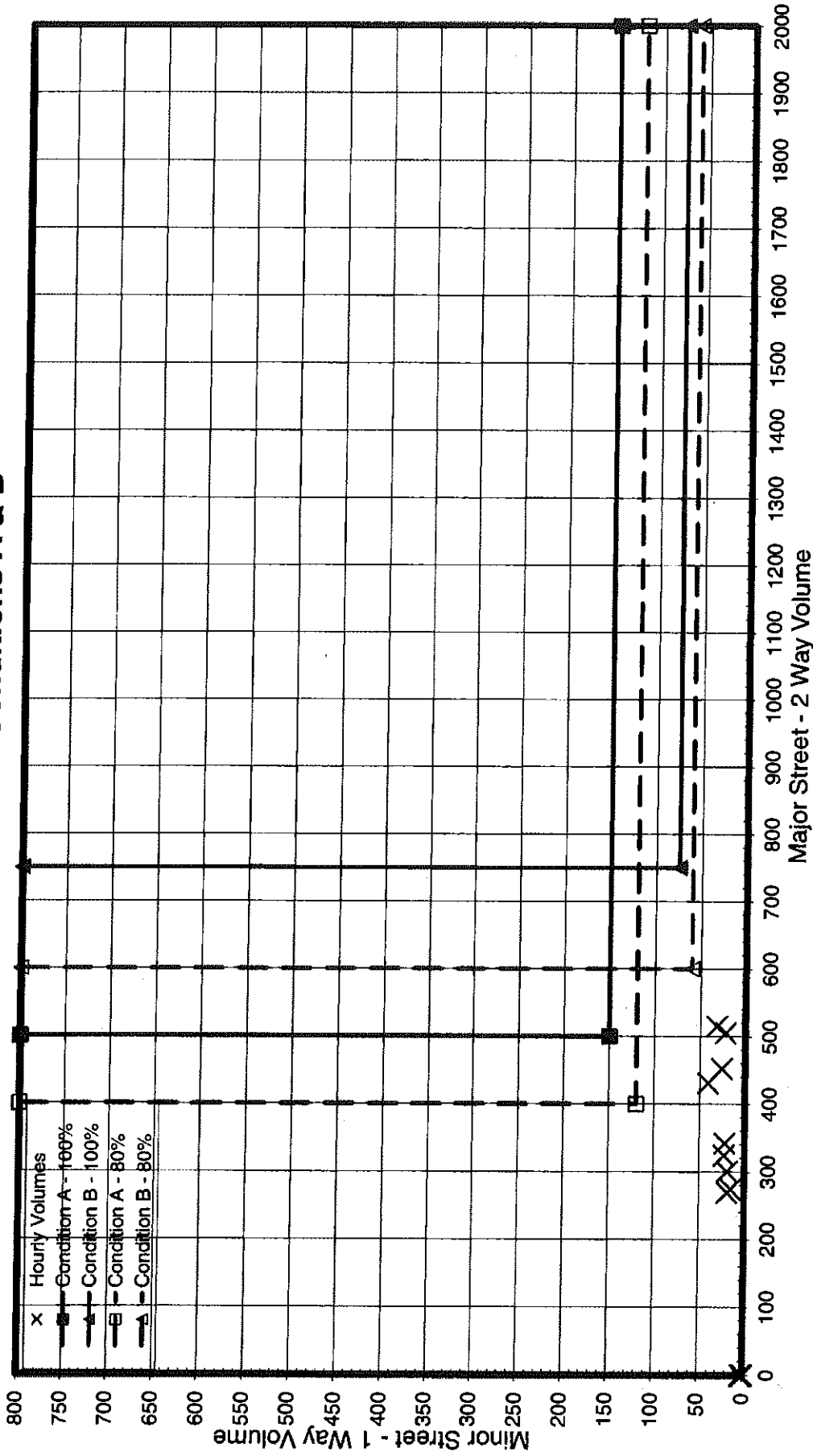
ADT Factor: 1.70
Intersection ID: 1

Start Time	Terrace Ped Northbound				Terrace Ped Southbound				Total North South	Rosemont Ped Eastbound				Marloes Ped Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	0	404	0	0	0	211	0	0	615	0	0	0	0	0	135	0	0	135	750
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	0	614	0	0	0	321	0	0	935	0	0	0	0	0	205	0	0	205	1140



Notes:

WARRANT 1 - Conditions A & B



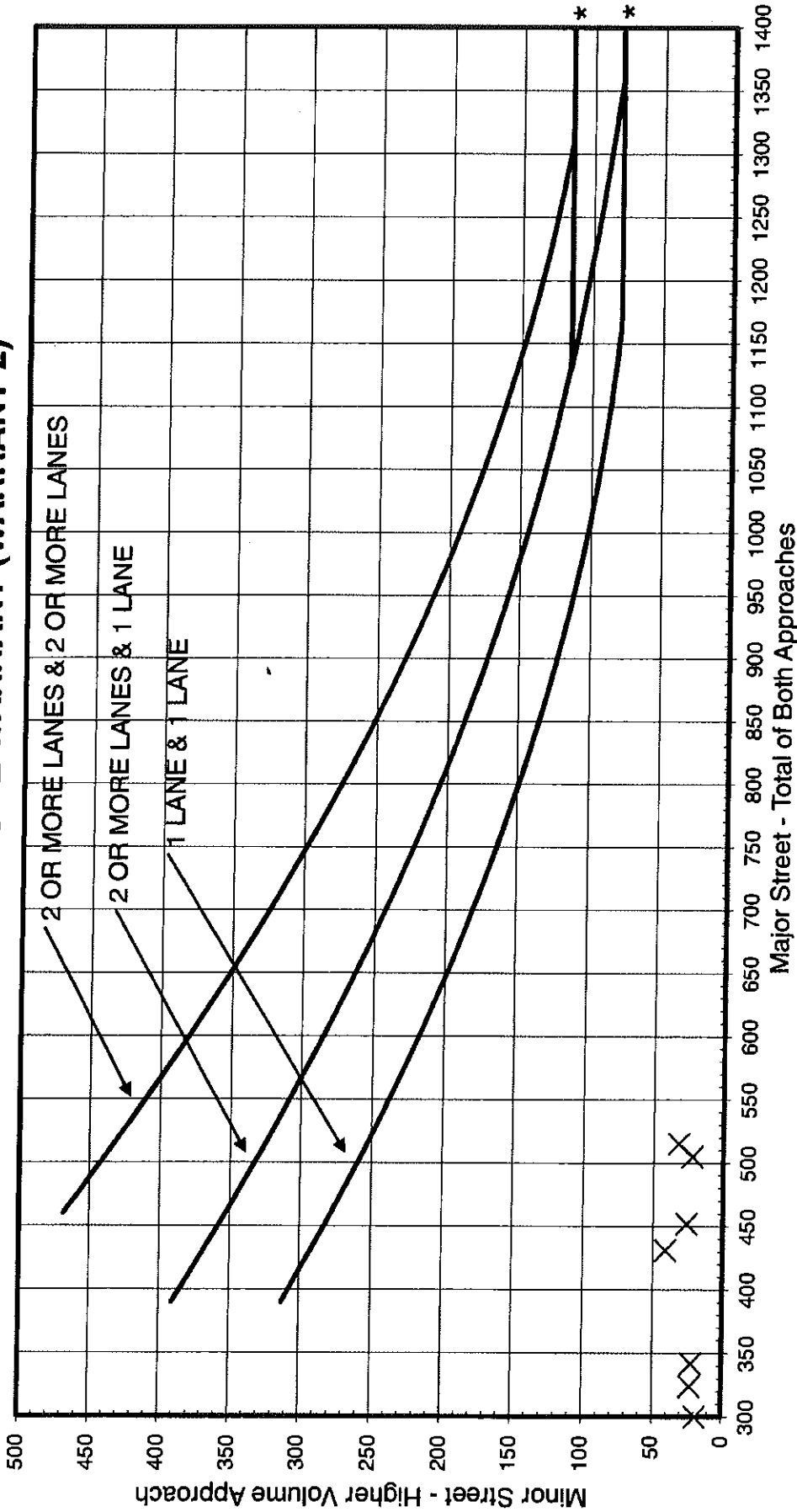
Major Road =	Terrace Rd	Lanes	1
Minor Road =	Rosemont Rd and Marloes A		1
Road Location =	Urban		
Condition A (100%) =	0 Hours Meet	Warrant Met?	No
Condition B (100%) =	0 Hours Meet		No
Condition A (80%) =	0 Hours Meet		No
Condition B (80%) =	0 Hours Meet		No

Day of Week	Date & Year	From	To	Weather
Thursday	May 26, 2011	7:00 AM	10:00 AM	
Thursday	May 26, 2011	11:00 AM	2:00 PM	
Thursday	May 26, 2011	3:00 PM	6:00 PM	



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FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



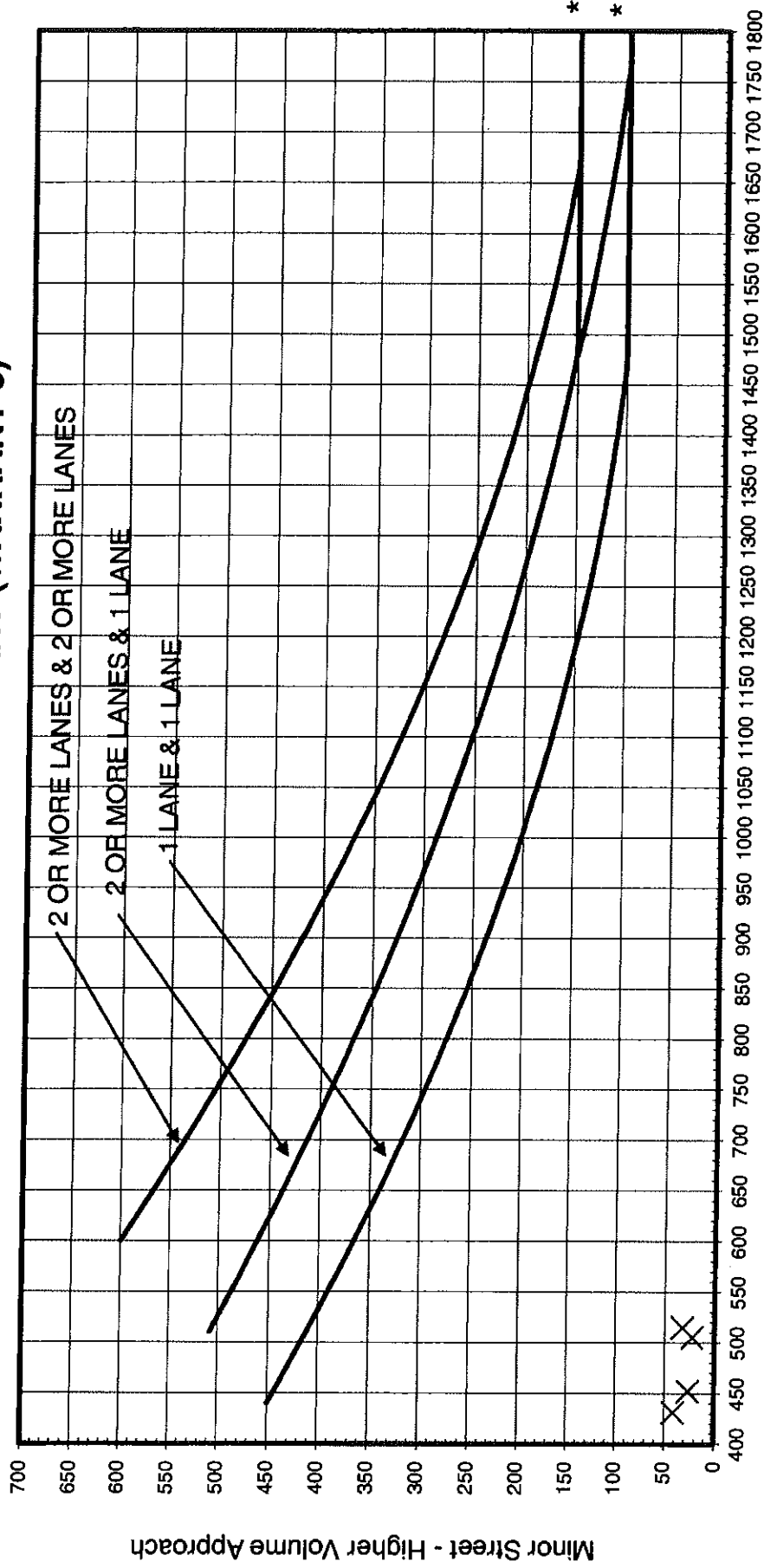
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	May 26, 2011	7:00 AM	10:00 AM	
Thursday	May 26, 2011	11:00 AM	2:00 PM	
Thursday	May 26, 2011	3:00 PM	6:00 PM	

Major Road = Terrace Rd Lanes 1
 Minor Road = Rosemont Rd and Marloes A Lanes 1
 Road Location = Urban

Warrant Met? YES NO
 Warrant 2 (Urban) = 0 Hours Meet NO

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road =
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Thursday	May 26, 2011	7:00 AM	10:00 AM	
Thursday	May 26, 2011	11:00 AM	2:00 PM	
Thursday	May 26, 2011	3:00 PM	6:00 PM	



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15-Minute Count Data

Taylor Rd and Terrace Rd

E. Cleveland, Ohio

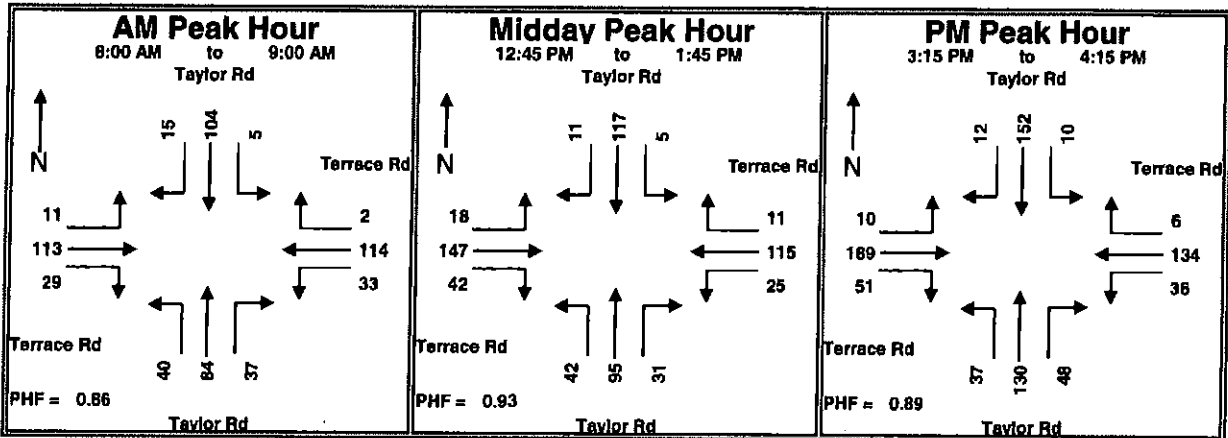


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Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.921	Tuesday	June 21, 2011	7:00 AM	10:00 AM	Cloudy
0.921	Tuesday	June 21, 2011	11:00 AM	2:00 PM	Cloudy
0.921	Tuesday	June 21, 2011	3:00 PM	6:00 PM	Cloudy

ADT Factor: 1.70
Intersection ID: 1

Start Time	Taylor Rd Northbound				Taylor Rd Southbound				Total North South	Terrace Rd Eastbound				Terrace Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	333	876	306	5	56	988	104	6	2883	111	1274	305	5	275	1012	59	8	3036	5899
	Percent Trucks = 0%				Percent Trucks = 1%					Percent Trucks = 0%				Percent Trucks = 1%					
ADT	522	1372	479	8	88	1548	163	9	4171	174	1996	478	8	431	1585	92	13	4755	8926
7:00 AM	3	17	7	0	0	15	0	0	42	0	10	5	0	2	18	0	0	33	75
7:15 AM	13	14	1	0	0	14	2	0	44	3	25	2	1	8	31	0	0	69	113
7:30 AM	6	33	12	0	1	18	0	0	70	1	15	6	0	2	32	2	1	58	128
7:45 AM	10	22	10	0	1	22	2	0	67	2	27	2	0	9	22	0	0	62	129
8:00 AM	7	25	9	0	0	12	3	0	56	3	35	10	1	6	26	0	0	80	136
8:15 AM	13	29	14	1	1	32	3	0	92	1	25	2	0	9	25	0	0	62	154
8:30 AM	9	15	3	0	2	25	5	0	59	1	24	7	0	6	29	0	0	67	126
8:45 AM	11	15	11	0	2	35	4	0	78	6	29	10	0	12	34	2	0	93	171
9:00 AM	3	33	12	0	4	20	4	1	78	2	19	4	0	9	21	1	1	56	132
9:15 AM	7	18	7	0	0	30	2	0	64	1	23	9	0	6	23	2	1	64	128
9:30 AM	9	21	6	1	2	22	5	0	65	3	37	7	0	4	22	0	2	73	138
9:45 AM	6	19	7	0	0	30	4	2	66	3	33	8	0	5	29	0	0	78	144
11:00 AM	6	27	2	0	1	24	0	0	60	2	30	6	2	5	21	2	0	66	126
11:15 AM	7	29	2	0	3	17	4	0	62	1	37	7	0	6	20	3	1	74	136
11:30 AM	10	14	7	0	2	24	3	0	60	2	37	7	0	6	18	3	0	71	131
11:45 AM	8	28	8	0	2	19	1	0	66	0	28	11	0	8	35	0	1	82	148
12:00 PM	12	23	14	0	4	34	1	0	88	2	31	10	0	4	22	2	0	71	159
12:15 PM	8	14	7	1	1	26	2	0	58	2	33	8	0	3	27	4	0	77	135
12:30 PM	15	30	7	0	0	20	2	0	74	5	33	11	0	10	25	4	0	88	162
12:45 PM	14	19	3	0	1	26	3	0	66	7	38	9	0	6	30	2	0	92	158
1:00 PM	6	27	9	1	0	31	3	0	78	5	32	15	1	6	21	3	0	82	160
1:15 PM	11	21	9	0	3	32	2	1	78	4	35	6	0	5	33	3	0	86	164
1:30 PM	9	28	10	0	1	28	3	2	79	2	42	12	0	8	31	3	0	98	177
1:45 PM	9	28	4	1	1	25	1	0	68	3	41	3	0	6	33	2	0	88	154
3:00 PM	13	20	6	0	3	30	5	0	77	6	34	6	0	14	31	5	0	96	173
3:15 PM	14	35	6	0	2	38	4	0	97	2	47	14	0	11	27	2	0	103	200
3:30 PM	5	20	20	0	2	35	2	0	84	0	43	9	0	5	31	2	1	90	174
3:45 PM	13	41	14	0	4	33	2	0	107	4	57	13	0	9	39	1	0	123	230
4:00 PM	5	34	8	0	2	48	4	0	101	4	42	15	0	11	37	1	0	110	211
4:15 PM	10	31	7	0	3	28	6	0	83	2	54	10	0	9	20	1	0	96	179
4:30 PM	10	30	11	0	1	37	4	0	93	8	39	9	0	3	33	1	0	93	186
4:45 PM	6	24	6	0	2	30	2	0	70	2	50	12	0	12	31	0	0	107	177
5:00 PM	9	18	13	0	2	43	9	0	94	4	57	15	0	16	28	1	0	121	215
5:15 PM	13	29	14	0	1	30	1	0	88	4	41	10	0	10	41	4	0	110	198
5:30 PM	8	23	11	0	1	31	3	0	77	10	49	11	0	15	37	0	0	122	199
5:45 PM	13	24	9	0	1	28	3	0	78	4	42	4	0	9	33	3	0	95	173



Notes:

Taylor & Terrace
 Bus Counts
 June 21, 2011

File Name : 2304-06-21-
 Site Code : 00062111
 Start Date : 06/21/2011
 Page No : 1

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15 AM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
07:30 AM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
07:45 AM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
Total	0	2	0	0	0	2	1	0	0	2	0	0	0	0	0	0	
08:00 AM	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
08:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
08:30 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
08:45 AM	0	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0	
Total	0	4	0	0	0	1	0	0	0	5	1	0	1	1	0	0	1
09:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
09:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:45 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Total	0	3	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 AM	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
12:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
01:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	1	0	0	0	4	0	0	0	1	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
03:30 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
04:00 PM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
04:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Total	0	3	0	0	0	0	0	0	0	2	0	0	1	0	0	0	

Taylor & Terrace
 Bus Counts
 June 21, 2011

File Name : 2304-06-21
 Site Code : 00062111
 Start Date : 06/21/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
05:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
05:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Grand Total	1	20	0	0	0	6	1	0	0	20	1	0	2	4	0	0		5
Approch %	4.8	95.2	0.0	0.0	0.0	85.7	14.3	0.0	0.0	95.2	4.8	0.0	33.3	66.7	0.0	0.0		
Total %	1.8	36.4	0.0	0.0	0.0	10.9	1.8	0.0	0.0	36.4	1.8	0.0	3.6	7.3	0.0	0.0		

SIGNAL WARRANT



INTERSECTION: Taylor Rd and Terrace Rd
 LOCATION IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes _____ No _____
 MAINTAINING AGENCY: _____

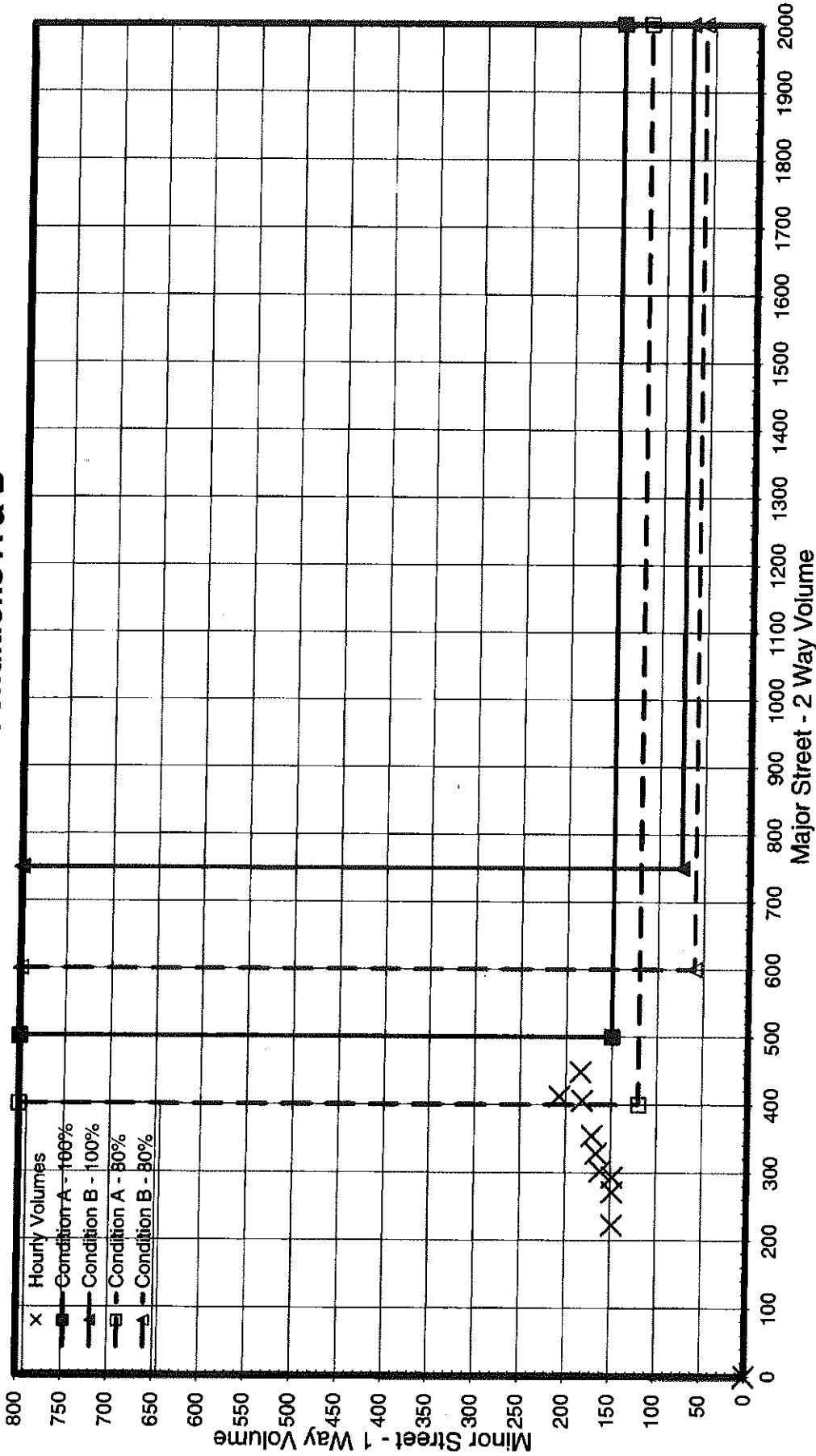
CO: Cuyahoga
 CONSULTANT: URS CORPORATION
 CALC. BY: _____
 SECT: _____
 CKD BY: _____

OTHER (DESCRIBE): _____
 WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO
 WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 190 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____
 WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from: _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____
 WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____
 WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____
 WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets Characteristic requirements? _____
 Warrant Satisfied? _____

COND. NO. OF LANE	ADJUSTED HOURLY VOLUMES		CONDITION A						CONDITION B						WARRANT #2	WARRANT #3
	MINOR ST		80%		100%		80%		100%		80%		FOUR HOUR	PEAK HOUR		
	1-WAY	2-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR				
NORM	1	X	500	150	400	120	750	75	600	60						
70%	2+		350	105	280	84	525	53	420	42						
	2+		420	140	336	112	630	70	504	56						
MID-1AM	0	0														
1AM-2AM	0	0														
2AM-3AM	0	0														
3AM-4AM	0	0														
4AM-5AM	0	0														
5AM-6AM	0	0														
6AM-7AM	0	0														
7AM-8AM	222	148														
8AM-9AM	302	181														
9AM-10AM	271	148														
10AM-11AM	0	0														
11AM-NOON	283	148														
NOON-1PM	328	166														
1PM-2PM	354	171														
2PM-3PM	0	0														
3PM-4PM	412	207														
4PM-5PM	406	182														
5PM-6PM	448	184														
6PM-7PM	0	0														
7PM-8PM	0	0														
8PM-9PM	0	0														
9PM-10PM	0	0														
10PM-11PM	0	0														
11PM-MID	0	0														
HOURS MET			0	0	3	0	0	0	0	0	0	0	0	0	0	
WARRANT SATISFIED?			NO	NO	IF	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

* CONDITION IS DETERMINED BY ENVIRONMENT. USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B



Major Street - 2 Way Volume

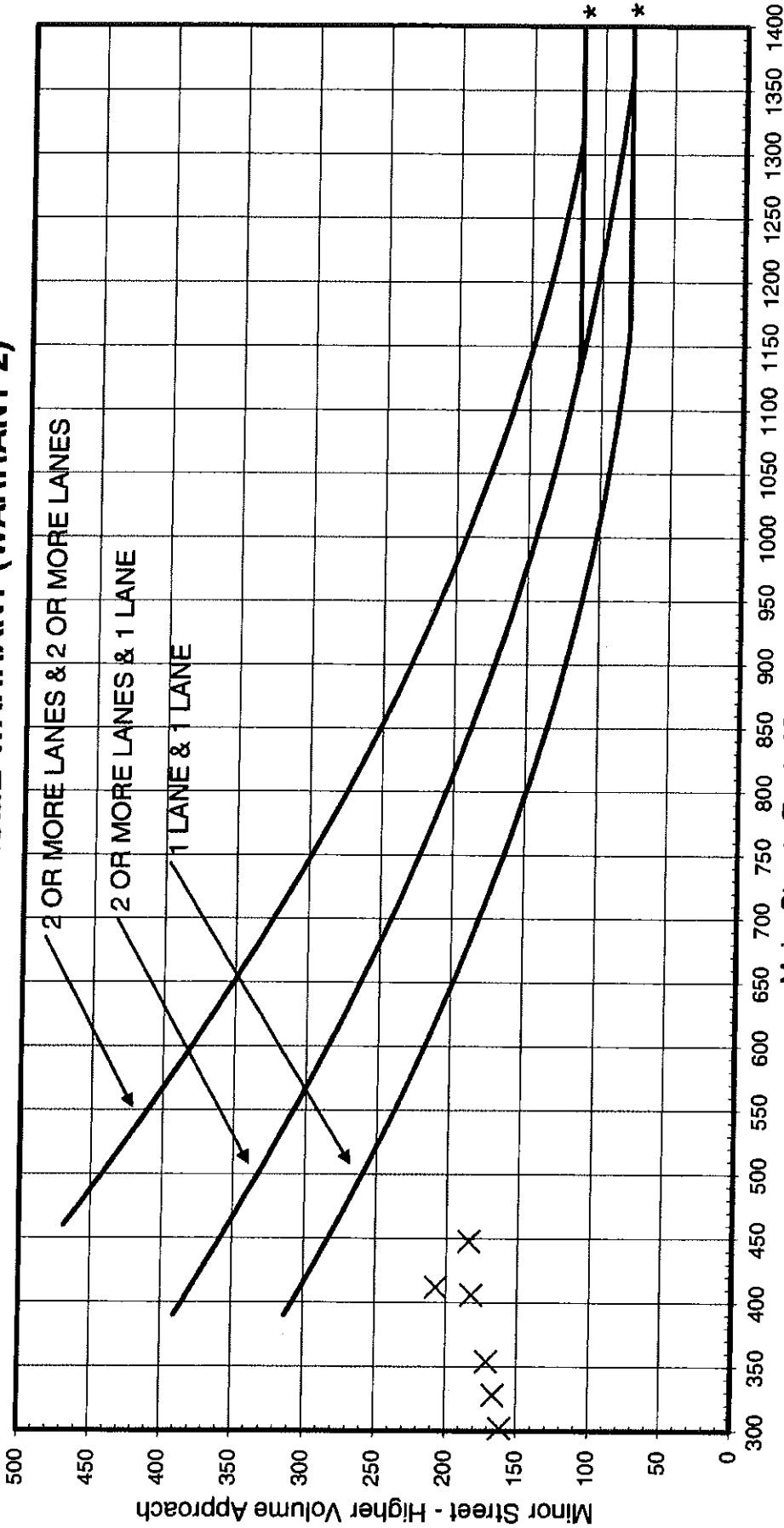
Major Road =	Terrace Rd	Lanes	1
Minor Road =	Taylor Rd	Lanes	1
Road Location =	Urban		
Condition A (100%) =	0 Hours Meet	Warrant Met?	No
Condition B (100%) =	0 Hours Meet	Warrant Met?	No
Condition A (80%) =	3 Hours Meet	Warrant Met?	No
Condition B (80%) =	0 Hours Meet	Warrant Met?	No

Day of Week	Date & Year	From	To	Weather
Tuesday	June 21, 2011	7:00 AM	10:00 AM	Cloudy
Tuesday	June 21, 2011	11:00 AM	2:00 PM	Cloudy
Tuesday	June 21, 2011	3:00 PM	6:00 PM	Cloudy



564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

FOUR HOUR VOLUME WARRANT (WARRANT 2)



Major Street - Total of Both Approaches

* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



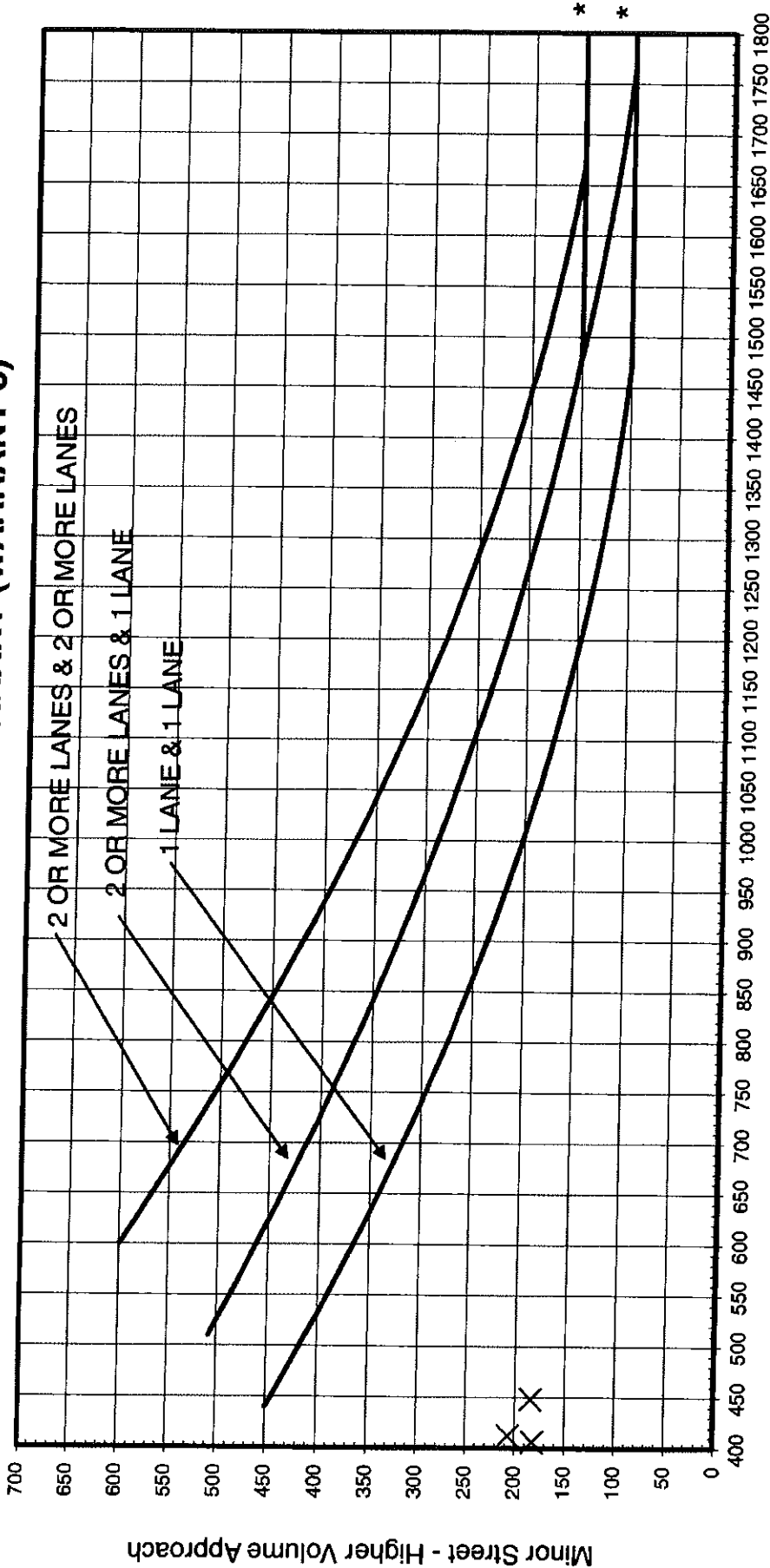
564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 2 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Tuesday	June 21, 2011	7:00 AM	10:00 AM	Cloudy
Tuesday	June 21, 2011	11:00 AM	2:00 PM	Cloudy
Tuesday	June 21, 2011	3:00 PM	6:00 PM	Cloudy

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	From	To	Weather
Tuesday	June 21, 2011	7:00 AM	10:00 AM	Cloudy
Tuesday	June 21, 2011	11:00 AM	2:00 PM	Cloudy
Tuesday	June 21, 2011	3:00 PM	6:00 PM	Cloudy

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data

Wemple Rd and Coit Ave and Woodworth Rd

E. Cleveland, Ohio

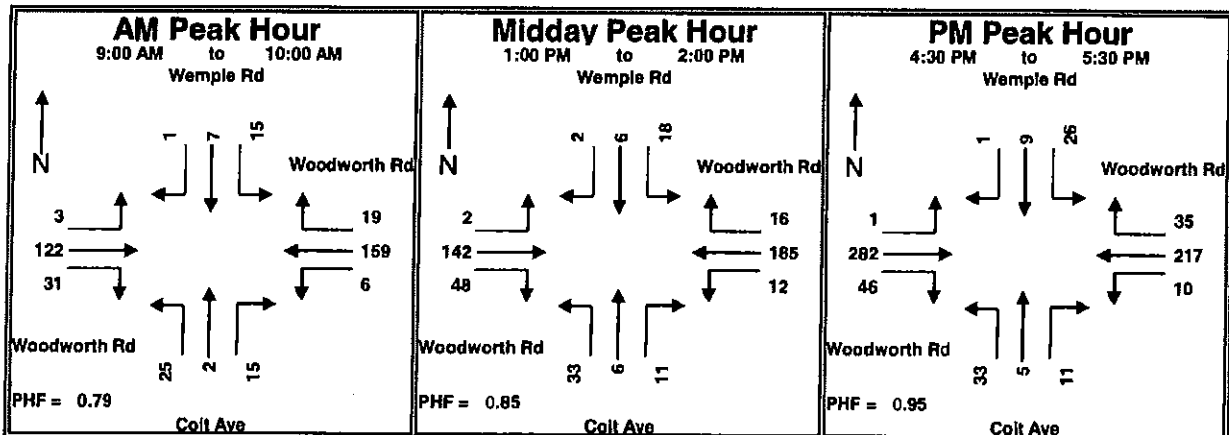


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.944	Wednesday	June 8, 2011	7:00 AM	10:00 AM	
0.944	Wednesday	June 8, 2011	11:00 AM	2:00 PM	
0.944	Wednesday	June 8, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	Coit Ave Northbound				Wemple Rd Southbound				Total North South	Woodworth Rd Eastbound				Woodworth Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	251	59	92	0	133	67	11	0	613	13	1464	344	4	86	1512	173	3	3592	4205
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	404	95	148	0	214	108	18	0	987	21	2358	554	6	139	2436	279	5	5786	6774



Notes: East Intersection

Coit/Woodworth/Wemple
 Bus Counts
 June 8, 2011

File Name : 2304-06-08-20
 Site Code : 00006811
 Start Date : 06/08/2011
 Page No : 1

Groups Printed: Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
04:30 PM	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	

Coit/Woodworth/Wemple
 Bus Counts
 June 8, 2011

File Name : 2304-06-08-20
 Site Code : 00006811
 Start Date : 06/08/2011
 Page No : 2

Groups Printed- Bank 2

Start Time	From North				From East				From South				From West				Int. Tot
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
Grand Total	1	0	1	0	0	2	0	0	0	0	0	0	3	4	0	0	
Approch %	50.0	0.0	50.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9	57.1	0.0	0.0	
Total %	9.1	0.0	9.1	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0	27.3	36.4	0.0	0.0	

SIGNAL WARRANT



INTERSECTION: Wemple Rd and Coit Ave and Woodworth Rd
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N:1 S:1 E:2 W:2
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga RTE: _____
 CONSULTANT: URS CORPORATION CALC. BY: _____
 SECT: _____
 CKD BY: _____

OTHER DESCRIBE:
East intersection

ADDITIONAL ITEMS ATTACHED

SPEED DATA
 DELAY ANALYSIS
 TIME/SPACE DIAGRAM
 GROUND PHOTOGRAPHS
 AERIAL PHOTOGRAPHS
 DOCUMENTATION/EXPLANATION

COND. TION	ADJUSTED HOURLY VOLUMES				CONDITION A						CONDITION B						WARRANT #2		WARRANT #3		
	NO. OF LANES	MAJOR ST	MINOR ST	1-WAY	100%	80%	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	80%	PEAK HOUR	FOUR HOUR		
NORM	2+	X		X	500	150	400	120	750	75	600	60									
70%	2+				600	200	480	160	900	100	720	80									
					350	105	280	84	525	53	420	42									
					450	140	336	112	630	70	504	56									
MID-1AM		0	0	0																	
1AM-2AM		0	0	0																	
2AM-3AM		0	0	0																	
3AM-4AM		0	0	0																	
4AM-5AM		0	0	0																	
5AM-6AM		0	0	0																	
6AM-7AM		0	0	0																	
7AM-8AM		218	20	7																	
8AM-9AM		341	44	13																	
9AM-10AM		340	42	23																	
10AM-11AM		0	0	0																	
11AM-NOON		335	45	26																	
NOON-1PM		401	38	28																	
1PM-2PM		405	50	26																	
2PM-3PM		0	0	0																	
3PM-4PM		474	55	27																	
4PM-5PM		529	52	37			X														
5PM-6PM		549	56	24			X														
6PM-7PM		0	0	0																	
7PM-8PM		0	0	0																	
8PM-9PM		0	0	0																	
9PM-10PM		0	0	0																	
10PM-11PM		0	0	0																	
11PM-MID		0	0	0																	
HOURS MET					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WARRANT SATISFIED?					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level:..... NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians:.....
 Hours with 190 or more pedestrians:.....
 Pedestrian crossing time (t):.....
 Number of gaps greater than (t) during period:.....
 Warrant Satisfied?.....

WARRANT #5 (SCHOOL CROSSING)
 On approved school route?..... NO
 Gap analysis made during period from..... to.....
 Number of vehicles during analysis period:.....
 Pedestrian crossing time (t):.....
 Number of gaps greater than (t) during period:.....
 Approximate vehicular speed:.....
 Number of children crossing during period:.....
 Warrant Satisfied?..... NO

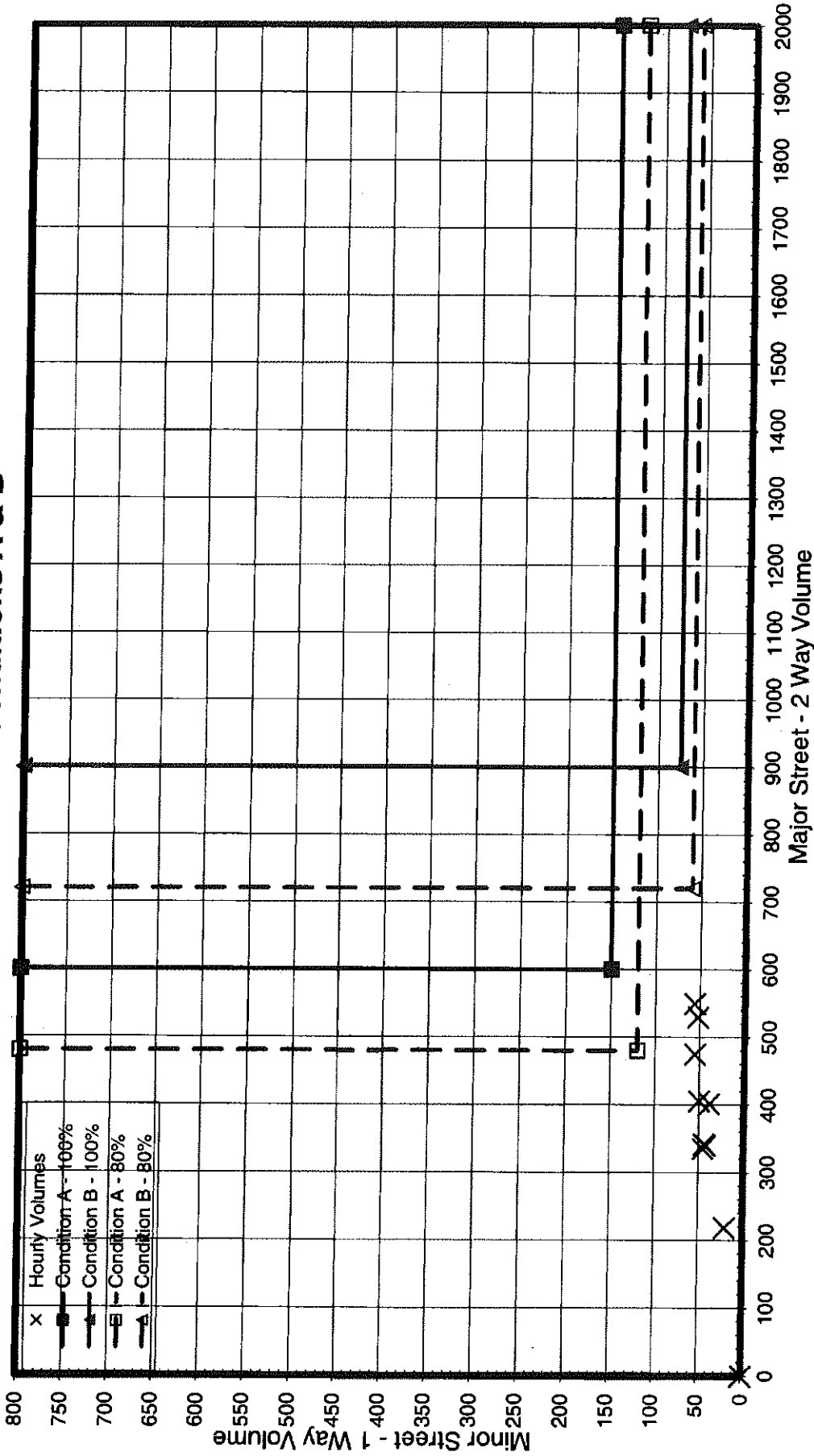
WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is:.....
 Distance to nearest signal in each direction on major street:.....
 Time space diagram (attached) shows that this location can be implemented into a system:.....
 Warrant Satisfied?..... TWO-WAY

WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures:.....
 Number of accidents per year of a type which could be prevented by signalization:.....
 80% of warrant #1 or #2 satisfied:.....
 Will signalization disrupt progressive movement?.....
 Warrant Satisfied?..... NO

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes:.....
 At least 1000 V.P.H. during weekday peak hour:.....
 5-year projection meets Warrant 1, 2, or 3:.....
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday:.....
 Meets Characteristic requirements?.....
 Warrant Satisfied?..... NO

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

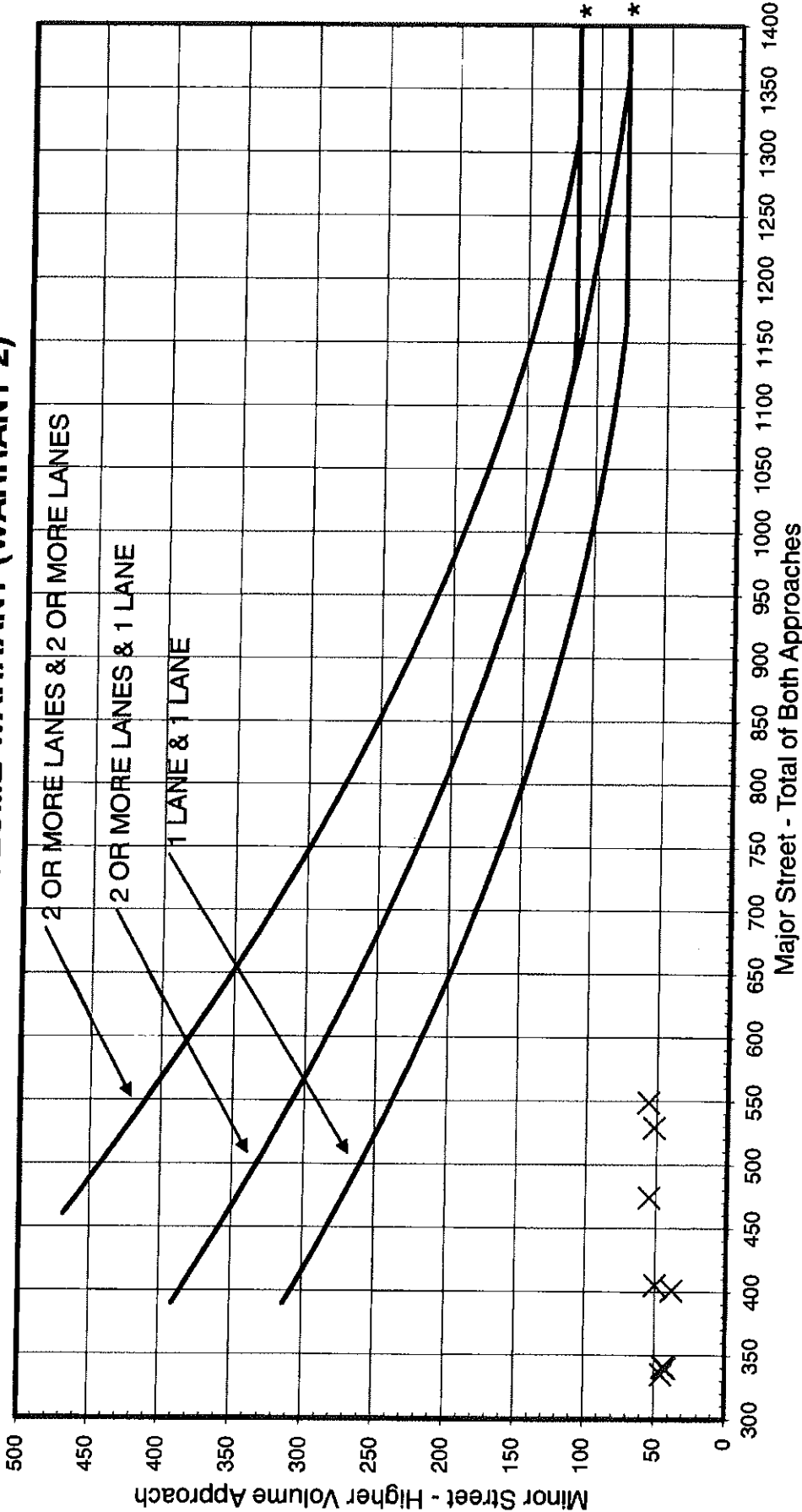


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 8, 2011	7:00 AM	10:00 AM	
Wednesday	June 8, 2011	11:00 AM	2:00 PM	
Wednesday	June 8, 2011	3:00 PM	6:00 PM	

Major Road = Woodworth Rd	Lanes = 2
Minor Road = Wemple Rd and Coit Ave	Lanes = 1
Road Location = Urban	
Warrant Met?	
Condition A (100%) = 0 Hours Meet	No
Condition B (100%) = 0 Hours Meet	No
Condition A (80%) = 0 Hours Meet	No
Condition B (80%) = 0 Hours Meet	No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Woodworth Rd	Lanes	2
Minor Road =	Wemple Rd and Coit Ave		1
Road Location =	Urban		

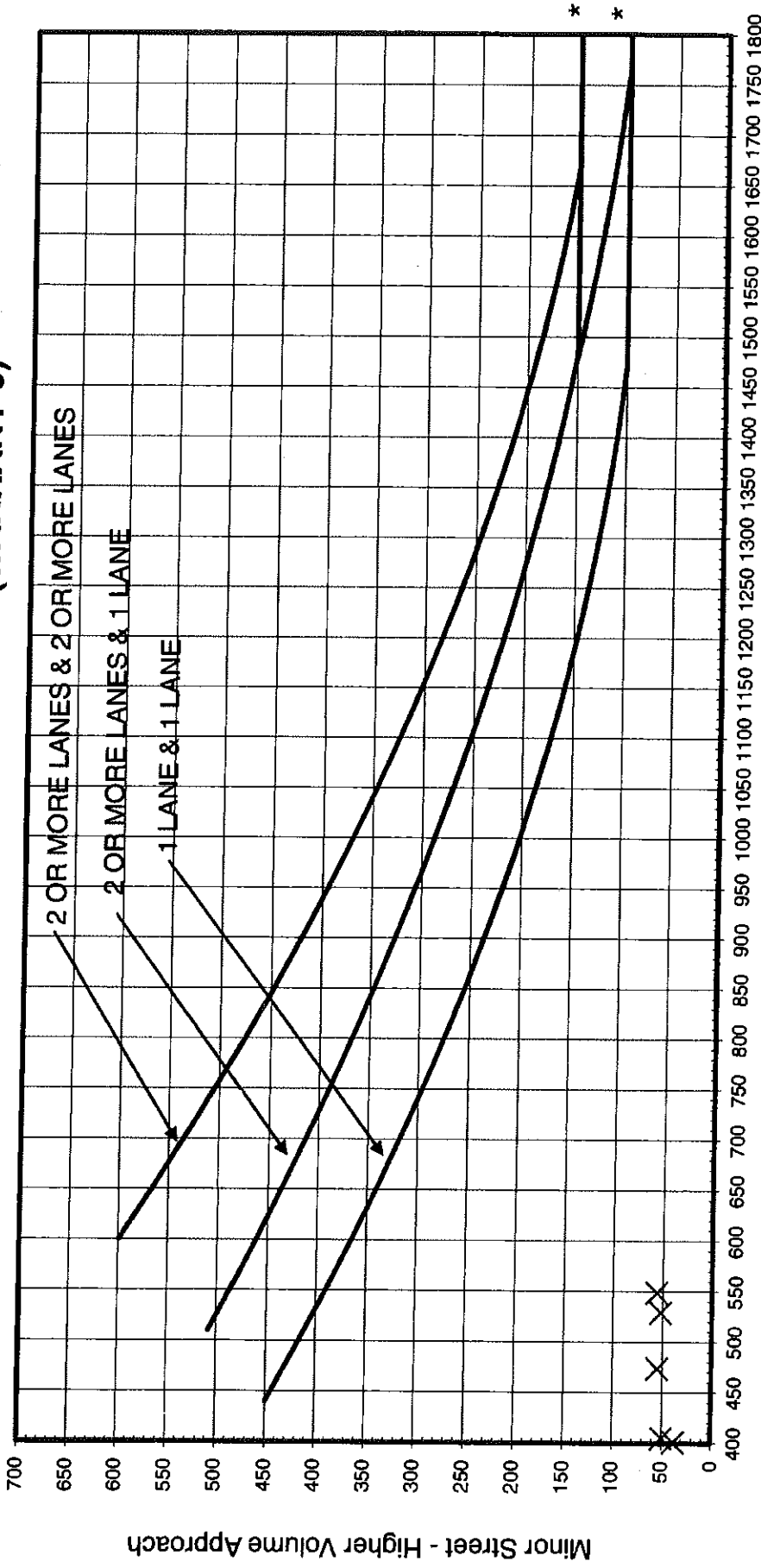
Warrant 2 (Urban) = 0 Hours Meet Warrant Met? NO

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 8, 2011	7:00 AM	10:00 AM	
Wednesday	June 8, 2011	11:00 AM	2:00 PM	
Wednesday	June 8, 2011	3:00 PM	6:00 PM	



564 White Pond Drive
 Akron, OH 44320-1100
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PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road =	Woodworth Rd	Lanes	2
Minor Road =	Wemple Rd and Coit Ave		1
Road Location =	Urban		

Warrant 3 (Urban) = 0 Hours Meet | Warrant Met? NO

Day of Week	Date & Year	From	To	Weather
Wednesday	June 8, 2011	7:00 AM	10:00 AM	
Wednesday	June 8, 2011	11:00 AM	2:00 PM	
Wednesday	June 8, 2011	3:00 PM	6:00 PM	

URS
 564 White Pond Drive
 Akron, OH 44320-1100
 Tel: 330.836.9111
 Fax: 330.836.9115

15-Minute Count Data

Coit Ave and 146th St and Woodworth Rd

E. Cleveland, Ohio

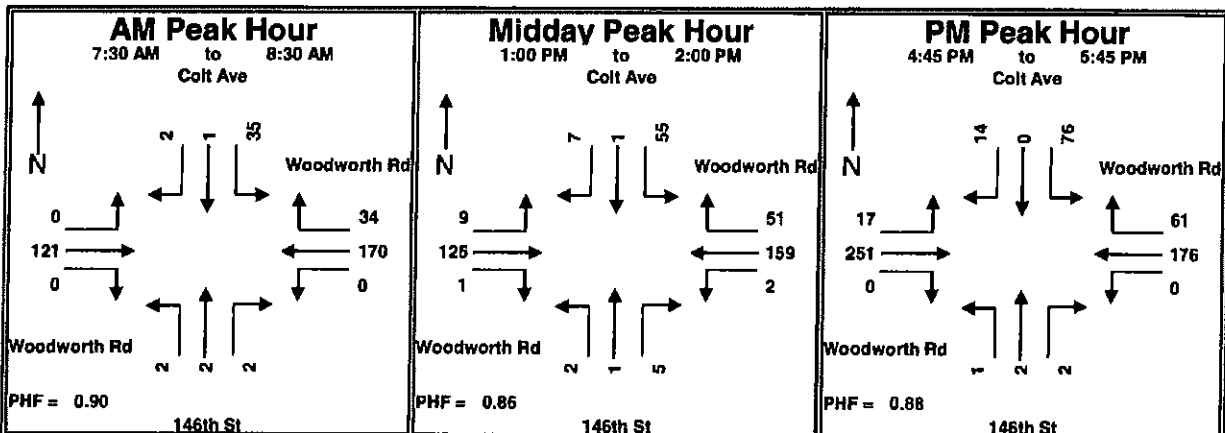


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115
Roadway Classification:

Seasonal Factor	Day of Week	Date	Start Time	End Time	Weather
0.944	Wednesday	June 8, 2011	7:00 AM	10:00 AM	
0.944	Wednesday	June 8, 2011	11:00 AM	2:00 PM	
0.944	Wednesday	June 8, 2011	3:00 PM	6:00 PM	

ADT Factor: 1.71
Intersection ID: 1

Start Time	146th St Northbound				Coit Ave Southbound				Total North South	Woodworth Rd Eastbound				Woodworth Rd Westbound				Total East West	Total All Dir.
	LT	THRU	RT	Truck	LT	THRU	RT	Truck		LT	THRU	RT	Truck	LT	THRU	RT	Truck		
Totals	14	22	26	0	438	3	80	0	581	68	1409	4	4	7	1377	398	4	3263	3844
	Percent Trucks = 0%				Percent Trucks = 0%					Percent Trucks = 0%				Percent Trucks = 0%					
ADT	23	35	42	0	702	5	129	0	936	110	2270	6	6	11	2218	641	6	5256	6192



Notes: West intersection

SIGNAL WARRANT

INTERSECTION: Coll Ave and 148th St and Woodworth Rd
 LOCATED IN CITY/VILLAGE/RURAL: E. Cleveland / Ohio / Urban
 NUMBER OF LANES PER APPROACH: N: 1 S: 1 E: 1 W: 1
 PRESENTLY SIGNALIZED? Yes DOES 70% WARRANT APPLY? NO
 MAINTAINING AGENCY: _____

CO: Cuyahoga RTE: _____
 CONSULTANT: URS CORPORATION
 CALC. BY: _____



ADDITIONAL ITEMS ATTACHED

OTHER (DESCRIBE):
West intersection

WARRANT #1 (COMBINATION)
 Conditions A & B are each met at the 80% level: NO

WARRANT #4 (PEDESTRIAN VOLUME)
 Hours with 100 or more pedestrians: _____
 Hours with 150 or more pedestrians: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Warrant Satisfied? _____

WARRANT #5 (SCHOOL CROSSING)
 On approved school route? _____
 Gap analysis made during period from _____ to _____
 Number of vehicles during analysis period: _____
 Pedestrian crossing time (t): _____
 Number of gaps greater than (t) during period: _____
 Approximate vehicular speed: _____
 Number of children crossing during period: _____
 Warrant Satisfied? _____

WARRANT #6 (COORDINATED SIGNAL SYSTEM)
 Major street is: _____
 Distance to nearest signal in each direction on major street: _____
 Time space diagram (attached) shows that this location can be implemented into a system: _____
 Warrant Satisfied? _____

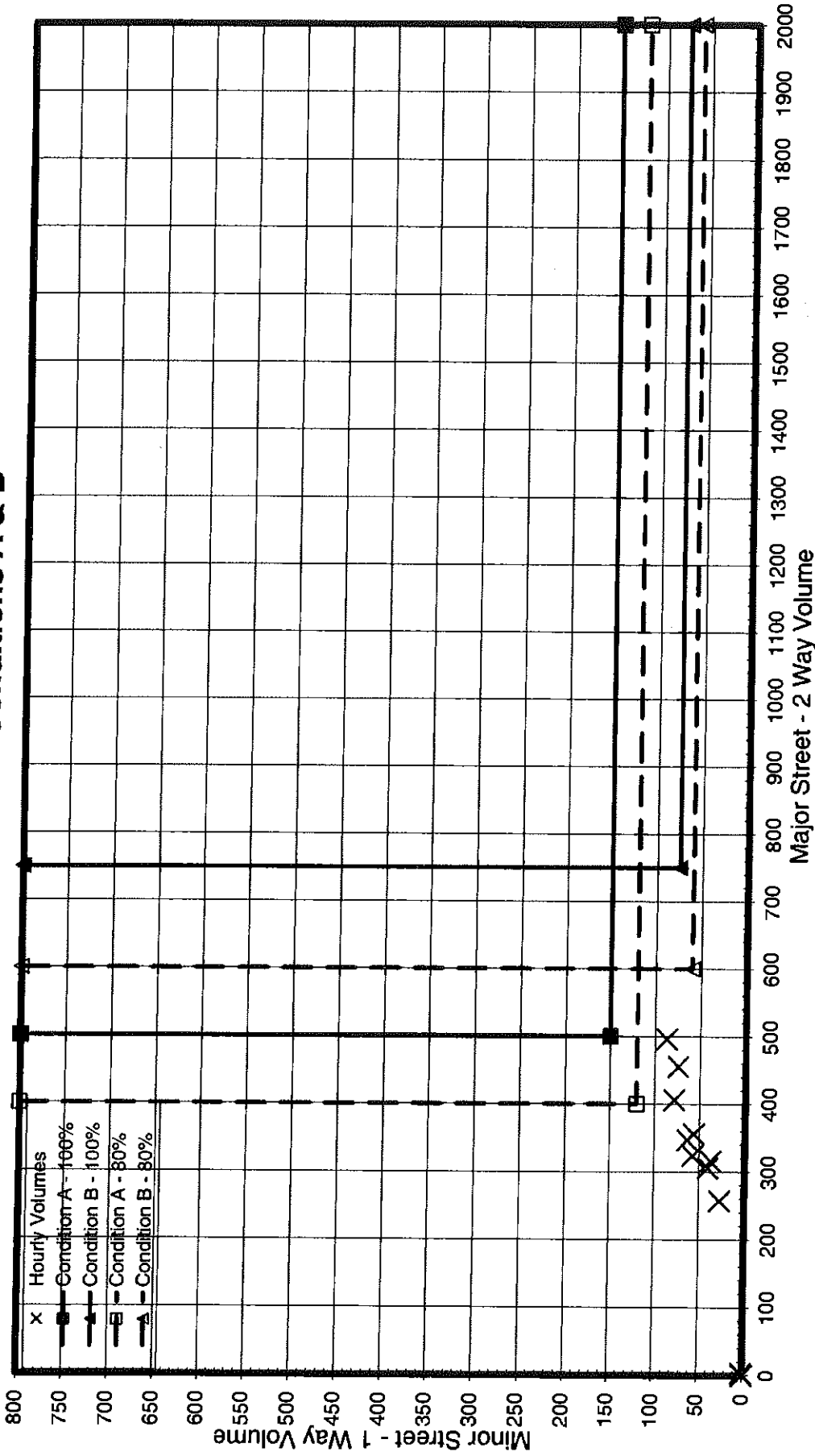
WARRANT #7 (CRASH EXPERIENCE)
 Adequate trial of less restrictive measures: _____
 Number of accidents per year of a type which could be prevented by signalization: _____
 80% of warrant #1 or #2 satisfied: _____
 Will signalization disrupt progressive movement? _____
 Warrant Satisfied? _____

WARRANT #8 (ROADWAY NETWORK)
 Both streets are considered major routes: _____
 At least 1000 V.P.H. during weekday peak hour: _____
 5-Year projection meets Warrant 1, 2, or 3: _____
 At least 1000 V.P.H. for any 5 hours on a Saturday or Sunday: _____
 Meets characteristic requirements? _____
 Warrant Satisfied? _____

COND. NO. OF LINES	ADJUSTED HOURLY VOLUMES				CONDITION A				CONDITION B				WARRANT #2	WARRANT #3		
	MAJOR ST		MINOR ST		100%		80%		100%		80%				FOUR HOUR	PEAK HOUR
	2-WAY	1-WAY	2-WAY	1-WAY	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR				
NORM	1	X	X	0	500	150	400	120	750	75	600	60				
70%	2+			0	600	200	480	160	900	100	720	80				
	2+			0	350	105	280	84	525	53	420	42				
	MID-1AM	0	0	0	420	140	336	112	630	70	504	56				
	1AM-2AM	0	0	0												
	2AM-3AM	0	0	0												
	3AM-4AM	0	0	0												
	4AM-5AM	0	0	0												
	5AM-6AM	0	0	0												
	6AM-7AM	0	0	0												
	7AM-8AM	257	2	27												
	8AM-9AM	316	7	37												
	9AM-10AM	306	5	40												
	10AM-11AM	3	0	1												
	11AM-NOON	324	6	57												
	NOON-1PM	356	6	56												
	1PM-2PM	347	8	63												
	2PM-3PM	0	0	0												
	3PM-4PM	406	15	78			X									
	4PM-5PM	455	6	74			X									
	5PM-6PM	486	7	87			X									
	6PM-7PM	0	0	0												
	7PM-8PM	0	0	0												
	8PM-9PM	0	0	0												
	9PM-10PM	0	0	0												
	10PM-11PM	0	0	0												
	11PM-MID	0	0	0												
	HOURS MET	0	0	0												
	WARRANT SATISFIED?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

* CONDITION IS DETERMINED BY ENVIRONMENT: USE 70% VALUES IF 85 PERCENTILE SPEED EXCEEDS 40 MPH ON THE MAJOR APPROACH OR IF LOCATION IS IN THE BUILT-UP AREA OF AN ISOLATED COMMUNITY WITH A POPULATION OF LESS THAN 10,000.

WARRANT 1 - Conditions A & B

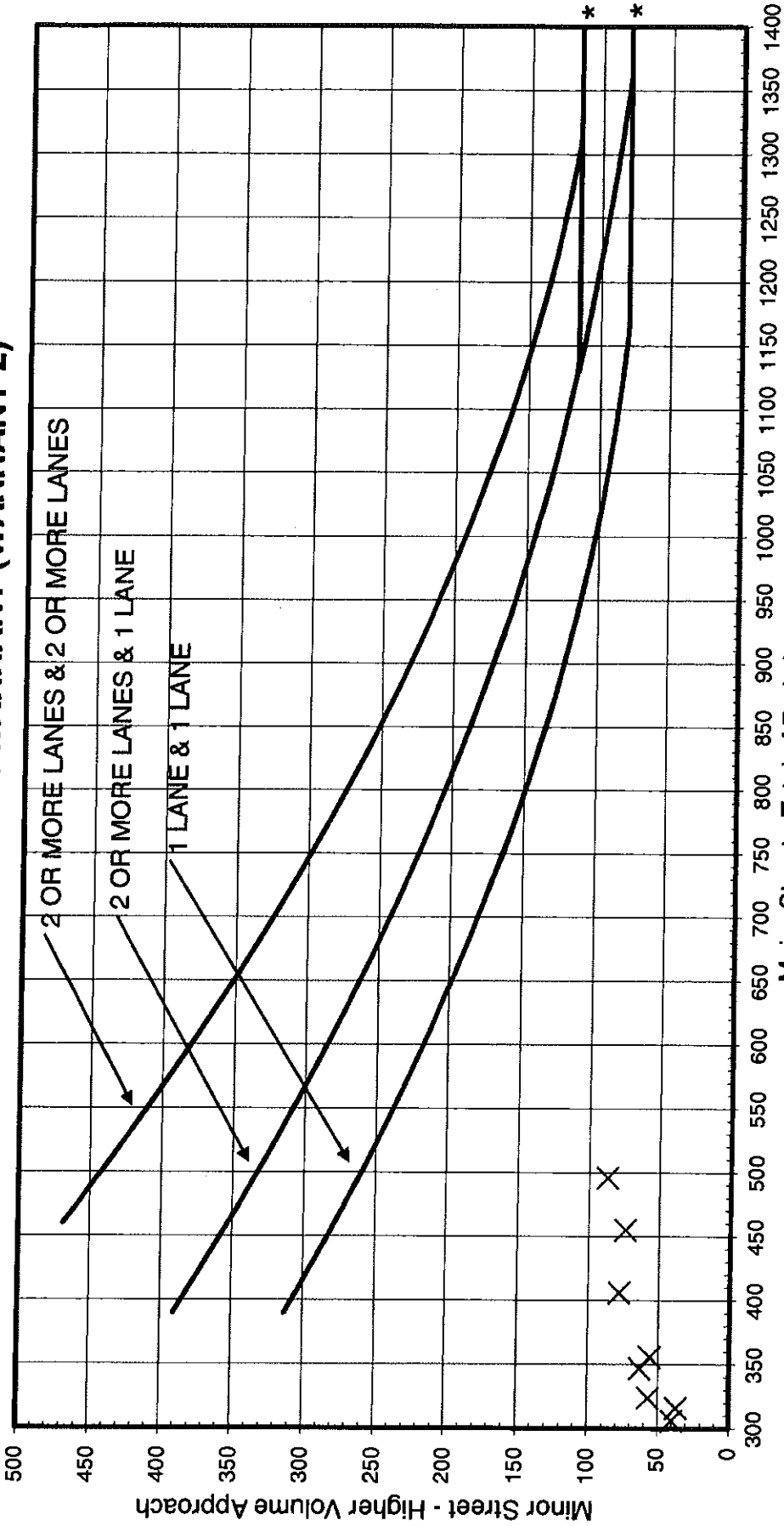


564 White Pond Drive
Akron, OH 44320-1100
Tel: 330.836.9111
Fax: 330.836.9115

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 8, 2011	7:00 AM	10:00 AM	
Wednesday	June 8, 2011	11:00 AM	2:00 PM	
Wednesday	June 8, 2011	3:00 PM	6:00 PM	

Major Road =	Woodworth Rd	Lanes	1
Minor Road =	Coit Ave and 146th St		1
Road Location =	Urban		
Warrant Met?			
Condition A (100%) =	0 Hours Meet	No	No
Condition B (100%) =	0 Hours Meet	No	No
Condition A (80%) =	0 Hours Meet	No	No
Condition B (80%) =	0 Hours Meet	No	No

FOUR HOUR VOLUME WARRANT (WARRANT 2)



* NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.



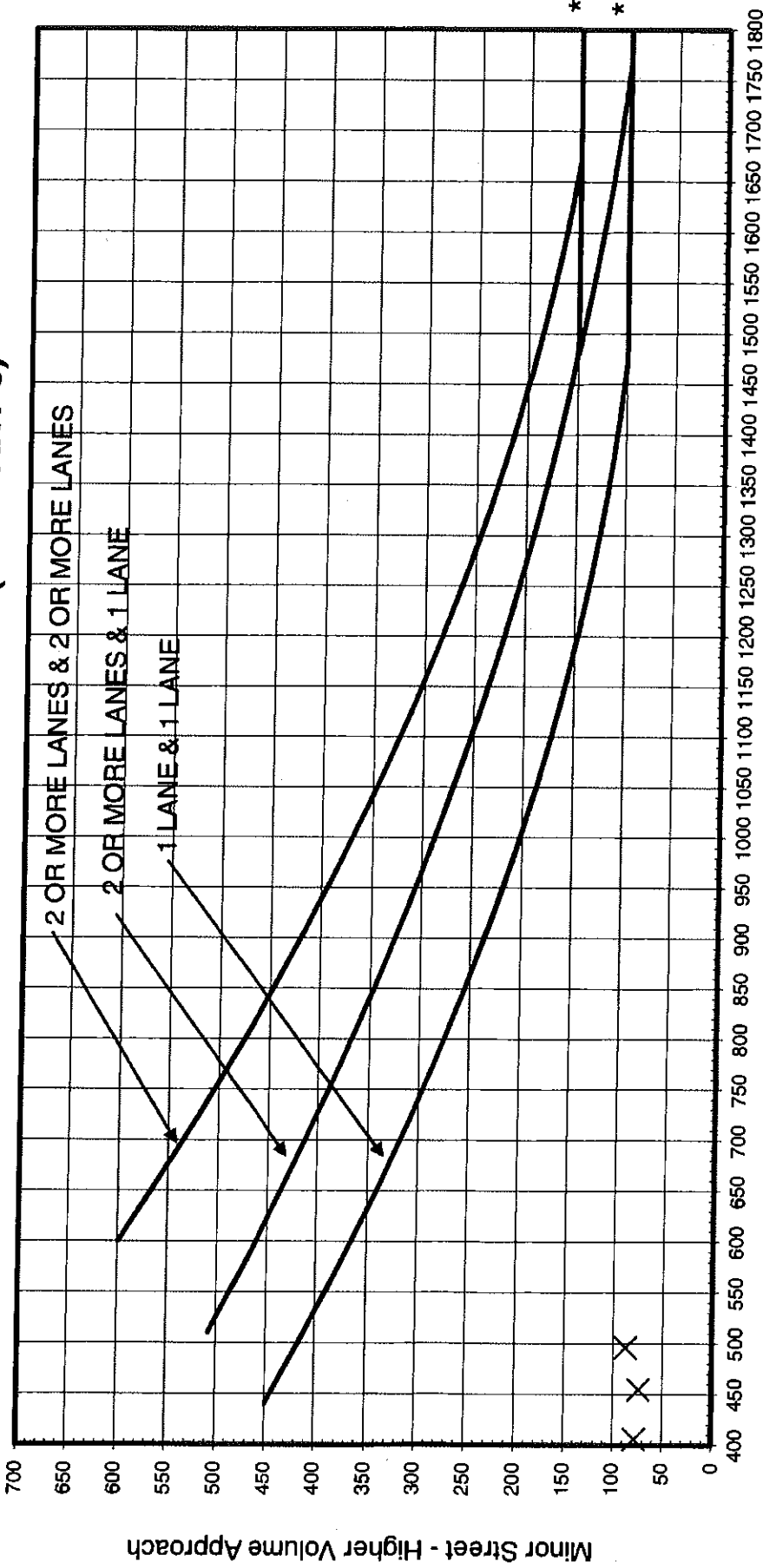
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Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 8, 2011	7:00 AM	10:00 AM	
Wednesday	June 8, 2011	11:00 AM	2:00 PM	
Wednesday	June 8, 2011	3:00 PM	6:00 PM	

Major Road = Woodworth Rd
 Minor Road = Coit Ave and 146th St
 Road Location = Urban

Warrant 2 (Urban) = 0 Hours Meet Warrant Met? NO

PEAK HOUR VOLUME WARRANT (WARRANT 3)



Major Street - Total of Both Approaches

- * NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES.
- 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH ONE LANE.

Major Road = Lanes
 Minor Road = Lanes
 Road Location =

Warrant 3 (Urban) = Hours Meet Warrant Met?

Day of Week	Date & Year	Hours		Weather
		From	To	
Wednesday	June 8, 2011	7:00 AM	10:00 AM	
Wednesday	June 8, 2011	11:00 AM	2:00 PM	
Wednesday	June 8, 2011	3:00 PM	6:00 PM	



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