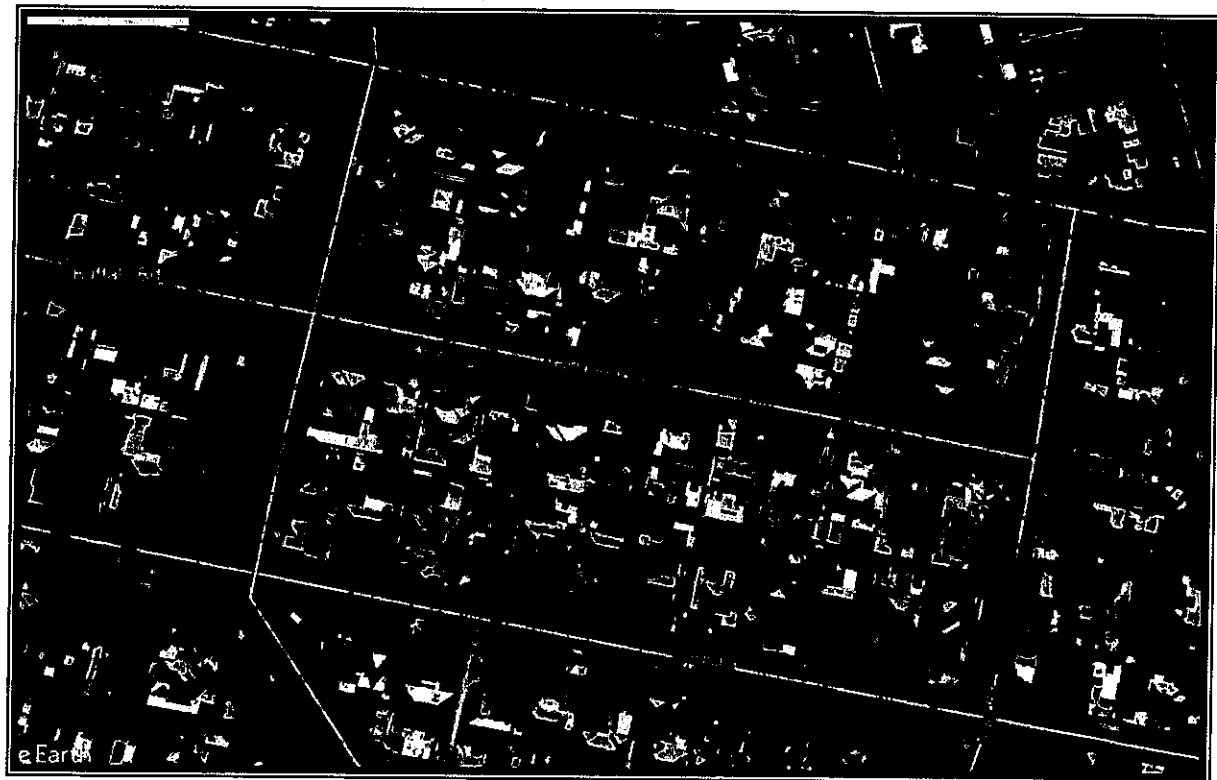


ANNEXURE 1

CITY OF JOHANNESBURG

APPLICATION FOR A SECURITY RESTRICTION OF ACCESS TO PUBLIC PLACES FOR SAFETY & SECURITY PURPOSES FOR THE BUFFALO ROAD EAST & NIGER ROAD RESIDENTS (EMMARENTIA) (REVISION 0)



TRAFFIC ASSESSMENT NOVEMBER 2017

PREPARED FOR:

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EXECUTIVE SUMMARY

This report contains a Traffic Assessment undertaken for a restriction of access to public places for safety and security purposes for the following area:

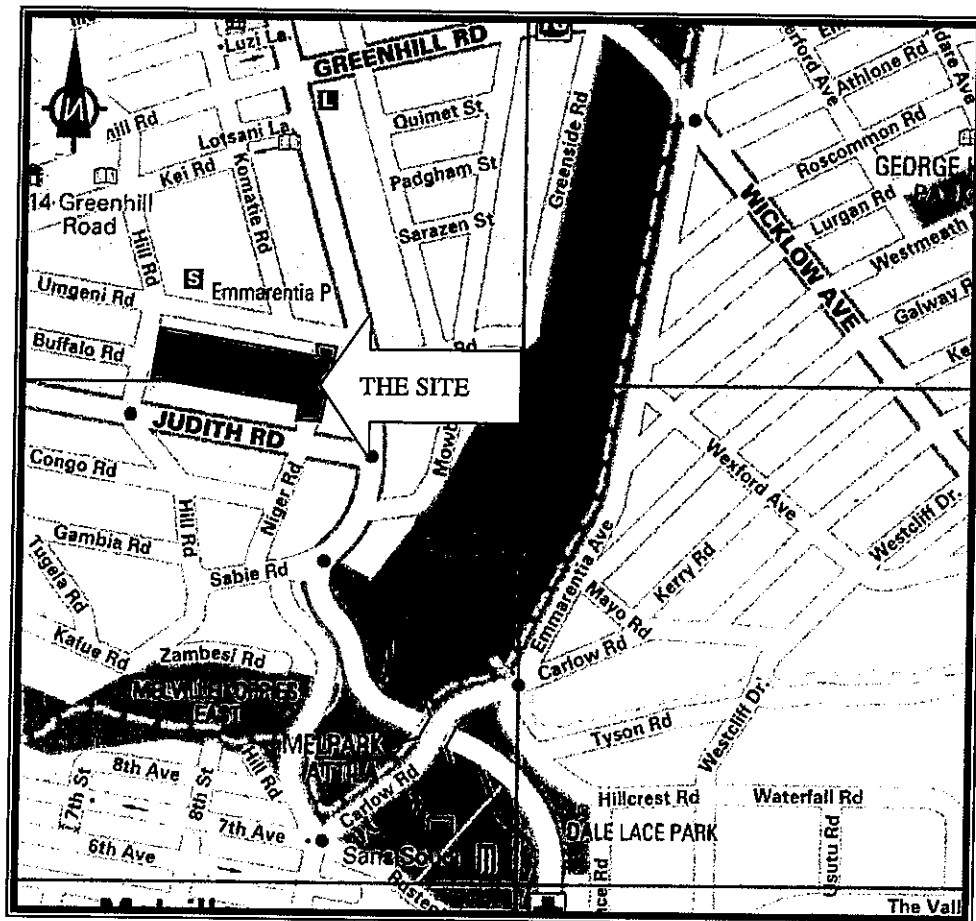
- Buffalo Road East and Niger Road, in Emmarentia.
- The application is located within the jurisdiction of the City of Johannesburg.

The following intersections forms part of the road closure:


- Hill Road & Buffalo Road East - 24 hour manned controlled access.
- Umgeni Road & Niger Road - To be closed with 24 hour pedestrian access.
- Judith Road & Niger Road - To be closed with 24 hour pedestrian access.

A total of 33 erven included in this application.

NOTE: No parks, schools or bus routes are affected by the proposed closure.



MARITENG INFORMATION PAGE

TITLE OF REPORT: Traffic Assessment: Application for a restriction of access to public places for safety and security purposes for the Buffalo Road East & Niger Road Residents (Emmarentia)		
DATE : November 2017	STATUS OF REPORT : Revision 0	
MARITENG PROJECT NUMBER: 186/01	MARITENG REPORT NUMBER: 186-01-01 traffic report buffalo road closure.doc	
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	Name	Signature
AUTHOR/S OF REPORT	: L J du Toit	
		Date 04-11-2017
TECHNICAL SUPPORT	: Me. E Muller : Me. L du Toit : Me. M.E. Nkonde	

Revision No.	Date	Comments

TRAFFIC ASSESSMENT:
APPLICATION FOR A RESTRICTION OF ACCESS TO PUBLIC PLACES
FOR SAFETY AND SECURITY PURPOSES FOR THE
BUFFALO ROAD EAST & NIGER ROAD RESIDENTS
(EMMARENTIA)
(REVISION 0)
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Annexure B: Typical JRA Access Restriction Details

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Photo 2: Southbound view of Niger Road, directly south of Umgeni Road (Source: Google) -4-

Photo 3: Northbound view of Niger Road, directly north of Judith Road (Source: Google) -4-

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Figure 1: Locality Plan

Figure 2: Existing Morning and Afternoon Peak Period Volumes

1. INTRODUCTION

This report contains a Traffic Assessment undertaken for a restriction of access to public places for safety and security purposes for the following area:

- Buffalo Road East and Niger Road, in Emmarentia.
- The application is located within the jurisdiction of the City of Johannesburg.

The details of the client are as follows:

- Jai Hind EMCC cc

t/a Emmarentia Convenience Centre

P.O. Box 84651

Greenside

For Attention: Mr. Avishkar Harilall Dukhi

Tel: 083 379 3338

Email: avishkard@jaihindgroup.co.za

This study was undertaken by traffic engineer:

Mr. Louis du Toit, P.O. Box 8864, Verwoerd Park, 1453

The traffic engineer has the following qualifications for undertaking Traffic Impact Studies:

- Registered as a professional engineering technologist (Registration No. 200270072);
- Baccalaureus Technologiae – Engineering Civil (Transportation) (1997); and
- Experienced in the field of evaluating the traffic impact of developments.

"I Louis du Toit, author of this traffic impact study, hereby certify that I am a professional traffic engineer (ECSA Registration No.: 200270072) and that I have the required experience and training in the field of traffic and transportation engineering, as required by the Engineering Council of South Africa (ECSA), to compile this traffic impact study/statement and I take full responsibility for the content, including all calculations, conclusions and recommendations made therein".



Signature:.....

be accommodated at these intersections.

- **Niger Road:** To be closed. The road is classified a Class 5 road and serves residential dwellings that will form part of the access restriction application. The majority of traffic observed at the intersections of Umgeni/Niger and Judith/Umgeni are through traffic. The closure of Niger Road at these two intersections will result in the redirection of traffic to Hill Road/Umgeni Road or Judith Road/Hill Road intersections. The latter intersection is signalised. The demand at redirected traffic is low and can be accommodated at these intersections.

3.3 LAND USES AFFECTED BY THE APPLICATION

The number of properties that will form part of the application is summarised as follows:

- 33 residential erven;

NOTE: No parks, schools or bus routes are affected by the proposed closure.

4. BACKGROUND TRAFFIC DEMAND

Detailed traffic counts were carried out at the intersections, on Wednesday, the 11th and Thursday, the 12th of October 2017. The peak hour background traffic volumes are shown in **Figure 2**. Based on the results the traffic affected by the proposed application is negligible.

5. REASSIGNED TRAFFIC DEMAND

Based on the application the access restriction is summarised as follows:

- **Hill Road & Buffalo Road East - 24 hour manned controlled access.**
- Umgeni Road & Niger Road - To be closed with 24 hour pedestrian access.
- Judith Road & Niger Road - To be closed with 24 hour pedestrian access.

6. DESCRIPTION OF THE SECURITY ACCESS RESTRICTION POINTS

The security access restriction are summarised as follows:

a) Hill Road & Buffalo Road East

- The access control system to be setback a minimum distance 10.0m from the boundary of Hill Street.
- 24/7 manned control access boom.
- Pedestrian gate on one side.

A street view of the existing intersection is shown in **Photo 1** below.

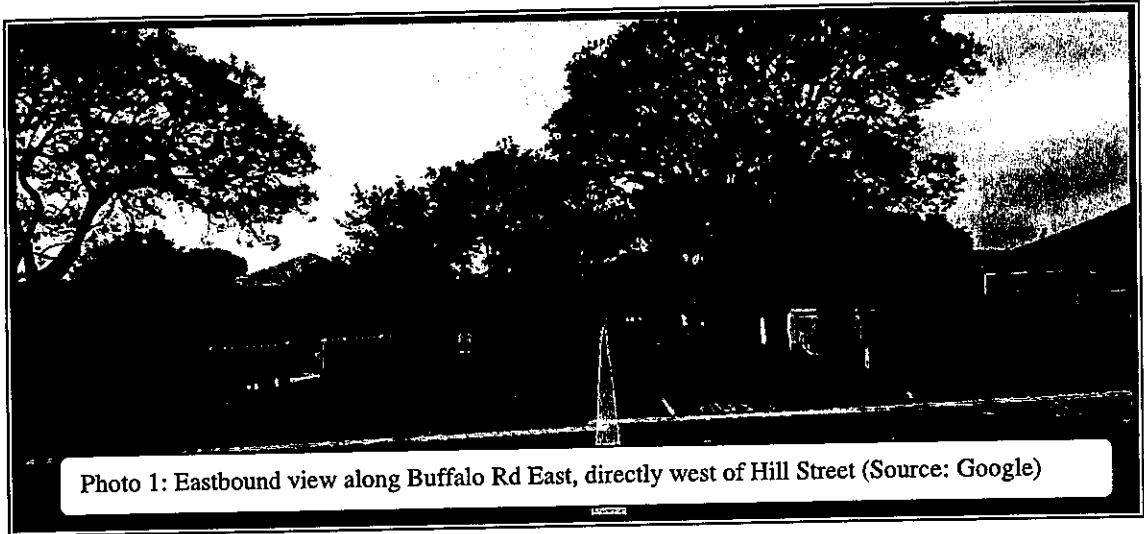


Photo 1: Eastbound view along Buffalo Rd East, directly west of Hill Street (Source: Google)

b) Umgeni Road/Niger Road & Judith Road/Niger Road Intersections

- Pedestrian gate on one side at each of the intersections.

A street view of Niger Road is shown in Photos 2 and 3 below.

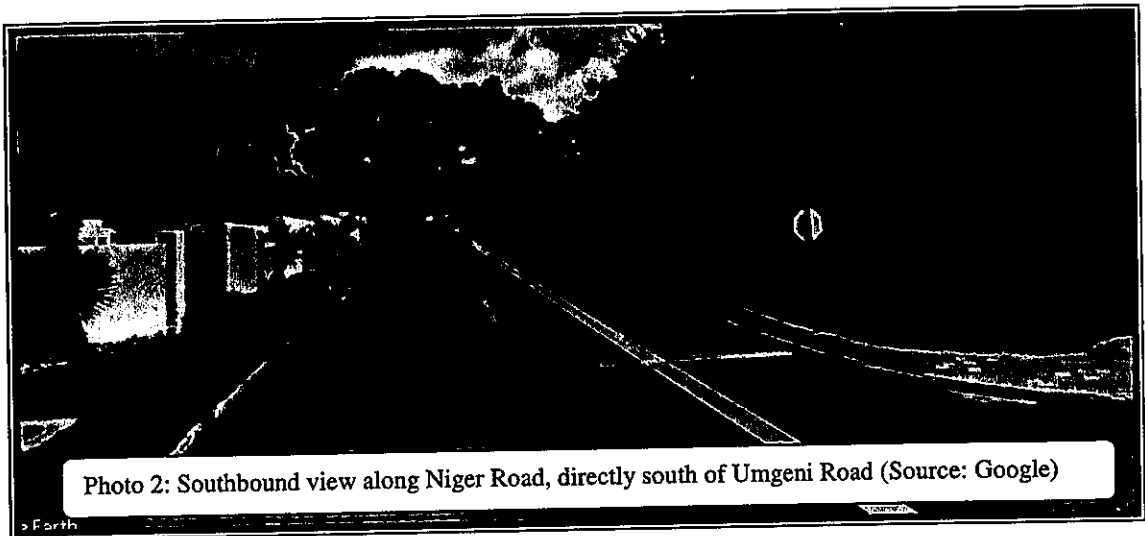


Photo 2: Southbound view along Niger Road, directly south of Umgeni Road (Source: Google)

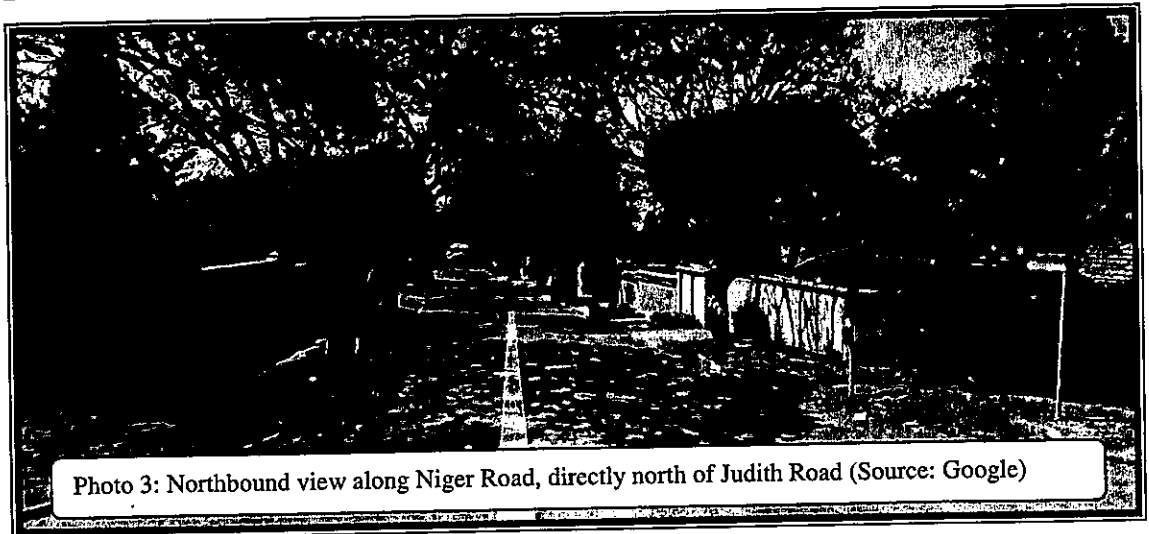


Photo 3: Northbound view along Niger Road, directly north of Judith Road (Source: Google)

7. IMPACT ON DELIVER VEHICLE MOVEMENTS

Delivery vehicles and weekly refuse collection activities will not be affected by the approval of the security access restriction. All service vehicles currently entering the study area can do so, using Hill Road/Buffalo Road East intersection.

8. IMPACT ON PUBLIC TRANSPORT ACTIVITIES

As previously indicated the application will not impact negatively on any public transport facilities in the study area.

9. TYPICAL JRA DETAILS FOR ACCESS CONTROL AND ROAD CLOSURE

The proposed application will result in the closure of two intersections for general public use. In terms of JRA's Roads & Stormwater Manual the following JRA drawings should be read in conjunction with the application (also refer to **Annexure B** for details):

- Controlled Access for Security Purposes - JRA Drawing No.: JRA-SD RD090.
- Enclosed Area: Type 1 Access Detail - JRA Drawing No.: JRA-SD RD091. Detail 1 Elevation is applicable to this application for both access points
- Enclosed Area: Type 2A Closure Detail - JRA Drawing No.: JRA-SD RD092.

10. CONCLUSIONS AND RECOMMENDATIONS

10.1 CONCLUSIONS

The following conclusion can be reached from the study:

- i. No major arterial routes will be affected by the approval of this application.
- ii. This applicant is for 33 residential erven, situated along Buffalo Road East and Niger Road.
- iii. No parks, schools, emergency routes or bus routes are affected by the proposed closure.

10.2 RECOMMENDATIONS

Based on the traffic assessment, it is recommended that the application for restriction of access to public places for safety and security purposes for the Buffalo Road East and Niger Road Residents, in Emmarentia be approved.

The approval is subject to the following:

- i. The implementation of a security facilities on the following roads:
 - a) **Hill Road & Buffalo Road East**
 - The access control system to be setback a minimum distance 10.0m from the boundary of Hill

Street.

- 24/7 manned control access boom.
- Pedestrian gate on one side.

b) Umgeni Road/Niger Road & Judith Road/Niger Road Intersections

- Pedestrian gate on one side at each of the intersections.

ii. The installation of the road signs and access control requirements, as shown in the following plans:

- Controlled Access for Security Purposes - JRA Drawing No.: JRA-SD RD090.
- Enclosed Area: Type 1 Access Detail - JRA Drawing No.: JRA-SD RD091. **Detail 1 Elevation is applicable to this application for both access points.**
- Enclosed Area: Type 2A Closure Detail - JRA Drawing No.: JRA-SD RD092.

iii. Any other requirements the Council may impose as part of the approval of this application.

FIGURES

FIGURE 1: LOCALITY PLAN

FIGURE 2: EXISTING MORNING AND AFTERNOON PEAK PERIOD VOLUMES

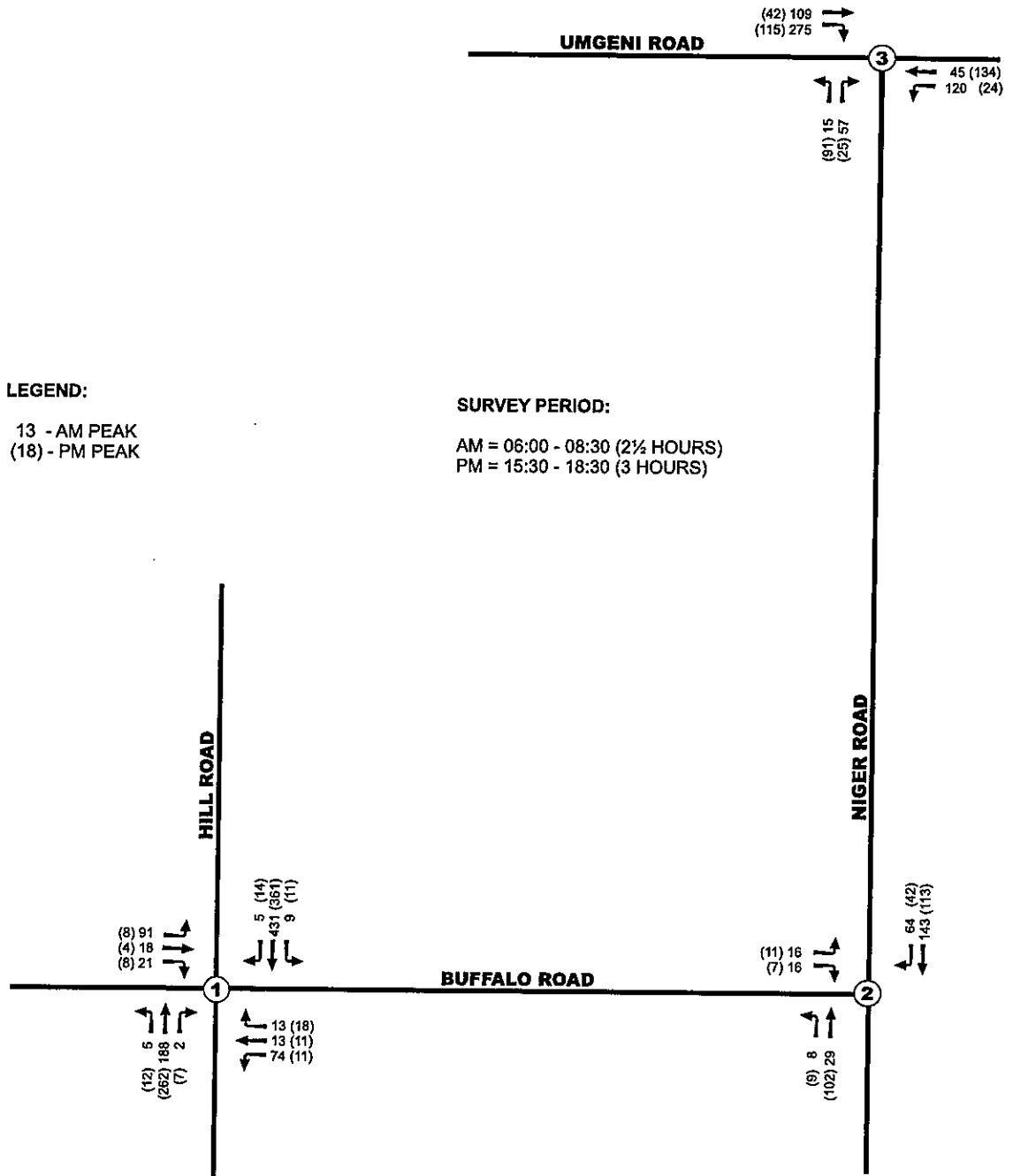


LEGEND:

13 - AM PEAK
 (18) - PM PEAK

SURVEY PERIOD:

AM = 06:00 - 08:30 (2½ HOURS)
 PM = 15:30 - 18:30 (3 HOURS)



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**BUFFALO ROAD EAST & NIGE ROAD
 RESTRICTIVE ACCESS APPLICATION
 EXISTING MORNING AND AFTERNOON
 PEAK PERIOD VOLUMES**

FIGURE

2