



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
6603 Centennial Blvd
Nashville, Tennessee 37243-0360

MEMORANDUM

TO: Teresea Estes

FROM: Ali Farhangi

CC: Winston Gaffron

DATE: May 14, 2009

SUBJECT: Spot Safety Application
Signalization of SR374 and Jordan Road
Clarksville, Montgomery County

Enclosed is an application for spot safety funding for SR374 and Jordan Road in Montgomery County. Per the request of the City of Clarksville, the Region 3 Traffic Office conducted a traffic study in April, 2009 at the intersection. The results of the traffic study indicate that the intersection meets the volume warrants necessary for installing a traffic signal at the location.

Our office also reviewed the accident history at the intersection. The intersection also met the MUTCD crash warrant criteria for the installation of a traffic signal. There were five (5) or more right angle collisions in 2004, 2005, and 2007. In addition, there were four (4) right angle collisions in 2003 and three (3) right angle collisions in 2008.

Below is a summary of the accident history from 2003-2008:

Two (2) rear ends , Five(5) out of controls, Two (2) sideswipes, and 27 right angle collisions. 22 of these accidents resulted in an injury. Four (4) of the injury accidents were incapacitating and there was one (1) fatal accident.

Based on the traffic volume and accident history at the intersection, the Region 3 Traffic Office recommends the signalization of SR374 and Jordan Road for spot safety funding consideration.

If you need further information, please let me know.

APPLICATION FOR SPOT SAFETY IMPROVEMENT PROJECT

County/City: Montgomery/Clarksville Route/Road SR374

Project Termini/Description: Intersection of SR374 and Jordan Road

Problem: Traffic volumes meet the warrant requirements for the installation of a traffic signal. The intersection has a history of right angle collisions and injuries. There were 5 or more right angle collisions in 2004, 2005 and 2007. There has been one(1) fatality at the intersection.

Proposed Solution: Install a Traffic Signal

Note: Attach maps, sketches, pictures, etc. as supporting documentation

Traffic: Maps, Aerial Photos, Traffic Counts and the Signal Warrant Analysis are included in report.

Accident Data/Potential: From 2003-2008 there were 36 accidents. Two (2) rear end collisions, Five(5) out of control, Two (2) sideswipes, and 27 right angle collisions. 22 of these accidents resulted in an injury. Four (4) of the injury accidents were incapacitating and there was one (1) fatal accident.

Estimated PE Cost: _____ Right of Way Cost _____
Construction Cost \$100,000

Worked Performed By: (Please Check One)

☐ Local Agency ☐ State Maintenance Forces ☒ State Let to Contract

Remarks: _____

Submitted By: Ali Farhangi Date: 5/14/2009

Title: Region 3 TMC Manager

Recommended By:

Environment and Planning Bureau: _____

Design/Operations Bureau: _____

Approved By Chairman:

Chief Engineer _____ Date: _____

19806

House of Representatives
State of Tennessee

JOE PITTS

REPRESENTATIVE 67TH DISTRICT

LEGISLATIVE OFFICE:
109 WAR MEMORIAL PLAZA
NASHVILLE, TN 37243-0167
PHONE (615) 741-2043
FAX (615) 253-0200
1-800-449-8366 ext. 12043
rep.joe.pitts@capitol.tn.gov

MEMBER OF COMMITTEES:
EDUCATION
COMMERCE
WORKER'S COMPENSATION
OVERSIGHT

RESIDENCE:
544 HAY MARKET ROAD
CLARKSVILLE, TN 37043
PHONE (931) 551-8215

April 16, 2009

The Honorable Gerald Nicely
Commissioner
Tennessee Department of Transportation
505 Deaderick Street, Suite 700
James K. Polk Building
Nashville, TN 37243

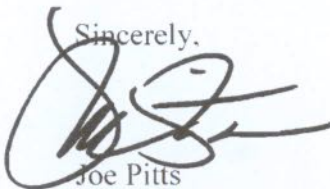
APR 16 2009

Dear Commissioner Nicely:

We are writing to request the Tennessee Department of Transportation review a request to place a traffic signal along SR374 (Purple Heart Parkway) at South Jordan Drive. The request comes to us from Mr. James Lewis, member Clarksville City Council Ward 3, see attached. Further we ask you to respond to this request and review in writing as soon as possible.

Thank you for your kind consideration of our request.

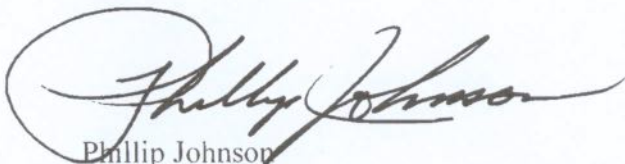
Sincerely,



Joe Pitts
State Representative
67th House District



Curtis Johnson
State Representative
68th House District



Phillip Johnson
State Representative
78th House District



Tim Barnes
State Senator
22nd Senate District

Cc: Mr. James Lewis

RECEIVED
APR 16 2009
CONSTITUENT SERVICES

James R. Lewis
City Council
Ward 3
Clarksville, TN
37042
jrlewis1654@aol.com
(931)-648-8603
(931)-980-1214

Honorable Senator Timothy K. Barnes
305 War Memorial Building
Nashville, Tennessee 37243

Honorable Representative Curtis Johnson
212 War Memorial Building
Nashville, Tennessee 37243

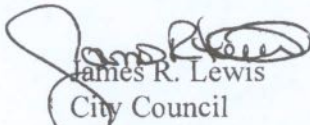
Honorable Representative Phillip Johnson
104 War Memorial Building
Nashville, Tennessee 37243

Honorable Representative Joe Pitts
109 War Memorial Building
Nashville, Tennessee 37243

Re: Traffic Light Intersection Purple Heart Pkwy and South Jordan Dr.

Dear Sirs:

I am writing you for your support in having a traffic light placed at the intersection of Purple Heart Pkwy and South Jordan Dr. In the past two years there have been 25 accidents and one fatality. The residents of Clarksville that have to use this intersection frequently request your help and support in making this a safer intersection to pass through. Thank you for your support in this matter.


James R. Lewis
City Council
Clarksville, Tennessee



John E. Piper, Mayor

December 21, 2007

Mr. Ali Farhangi
Tennessee Department of Transportation
Region III Traffic Engineering Division
6601 Centennial Boulevard
Nashville, TN 37243-0360

Re: SR 374 and Jordan Rd.

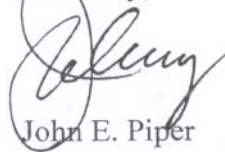
Mr. Farhangi,

The City of Clarksville requests that your department initiate a traffic signal warrant study for this intersection. This intersection has a history of traffic accidents. I specifically request that you consider Warrant 7 of the MUTCD, crash experience.

Please feel free to call David Shepard (931-645-7464), Director of Streets, for assistance in this matter.

Thank you for your cooperation in this matter.

Sincerely,

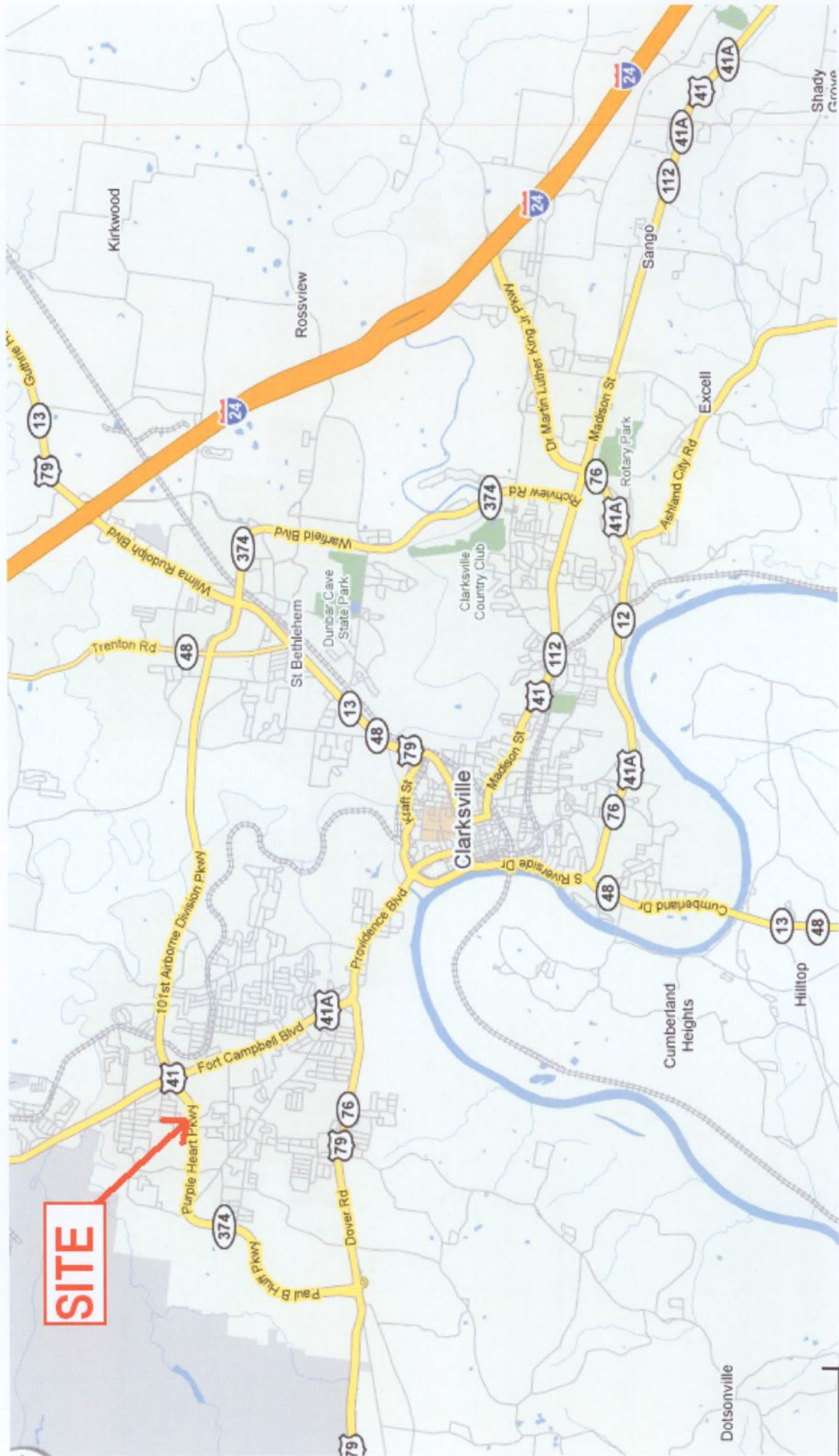


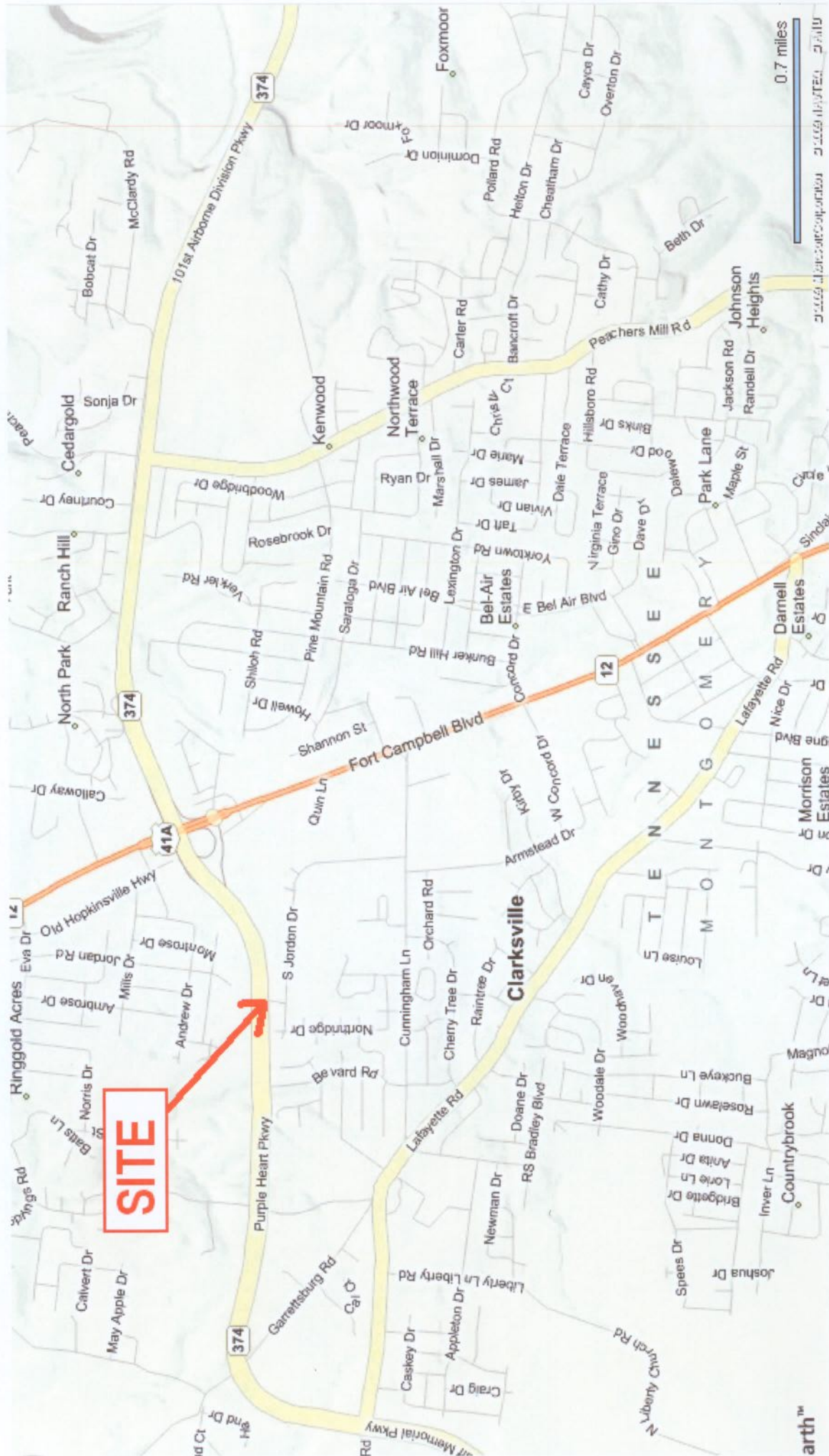
John E. Piper

RECEIVED
JAN 07 2008
BUREAU OF OPERATIONS
TRAFFIC DIVISION



City Hall
One Public Square
Clarksville, TN 37040
(931) 645-7444 ▲ Fax: (931) 552-7479
Email: mayorpiper@cityofclarksville.com





0.7 miles

Clarksville, Tennessee

arth™

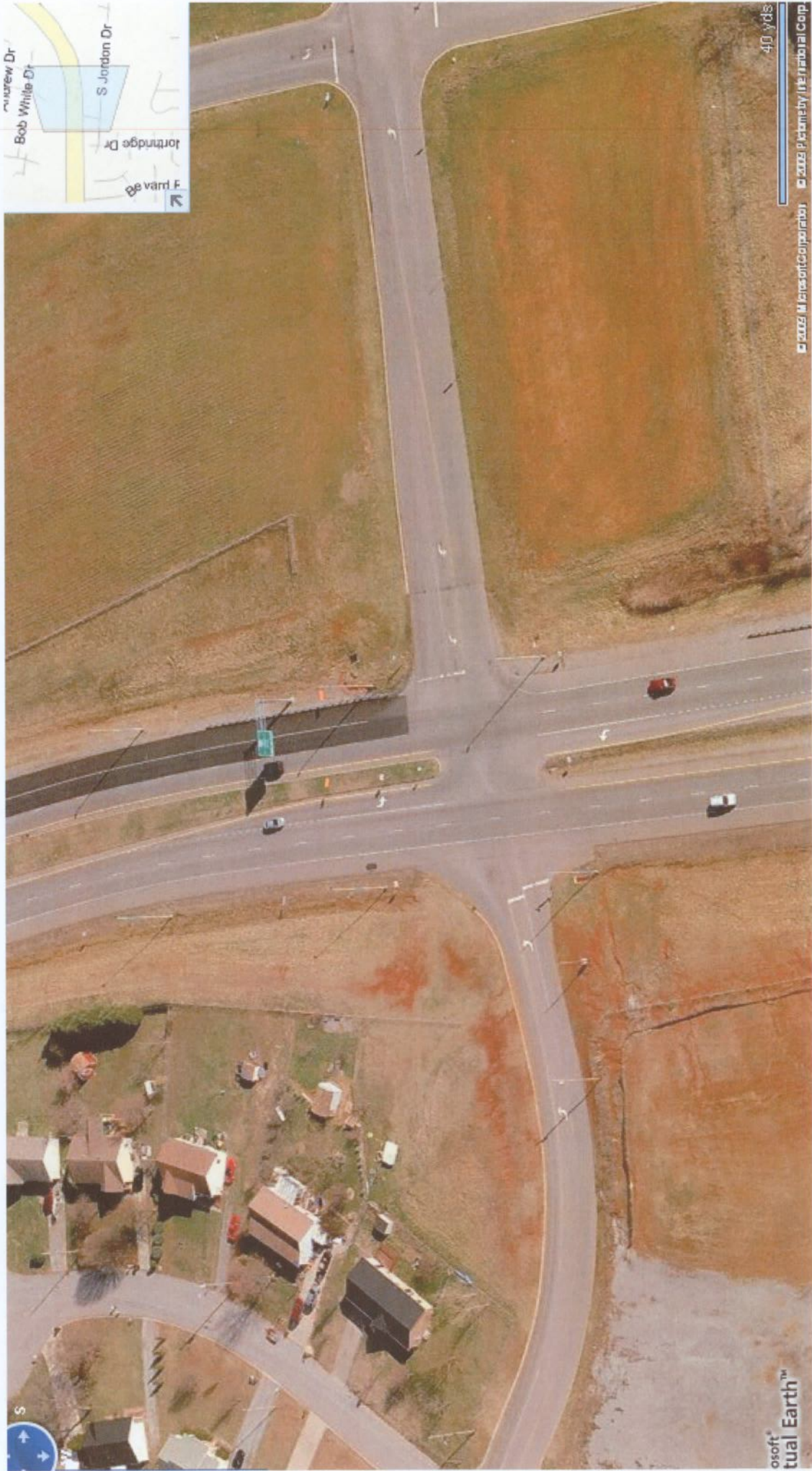


SITE

300 yds

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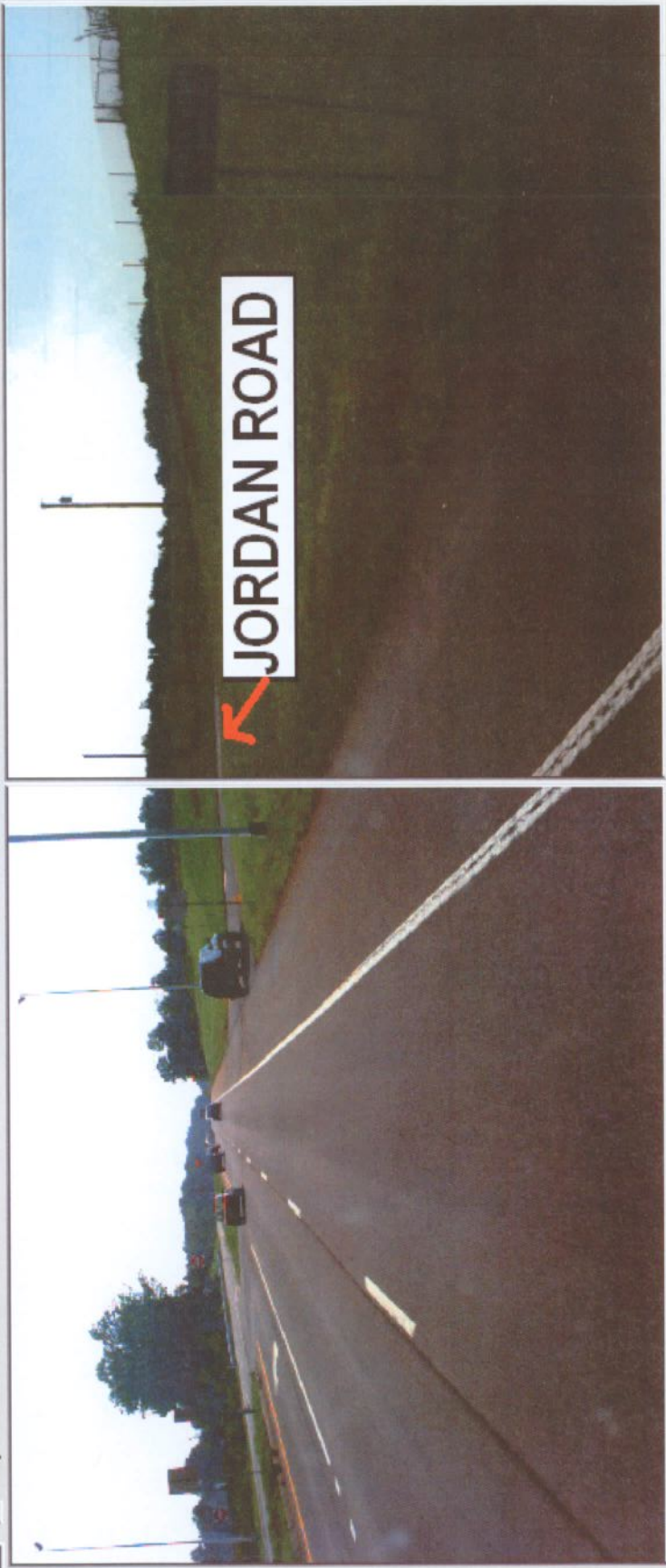




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40 yds

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Photolog

View: ☐ Stop at Underpasses ☐ Stop at Intersections RR-X
Front & Side

R

Milepoint:

12.280

Direction:

S

Signing:

F

Date:

11/01/2005

Faster



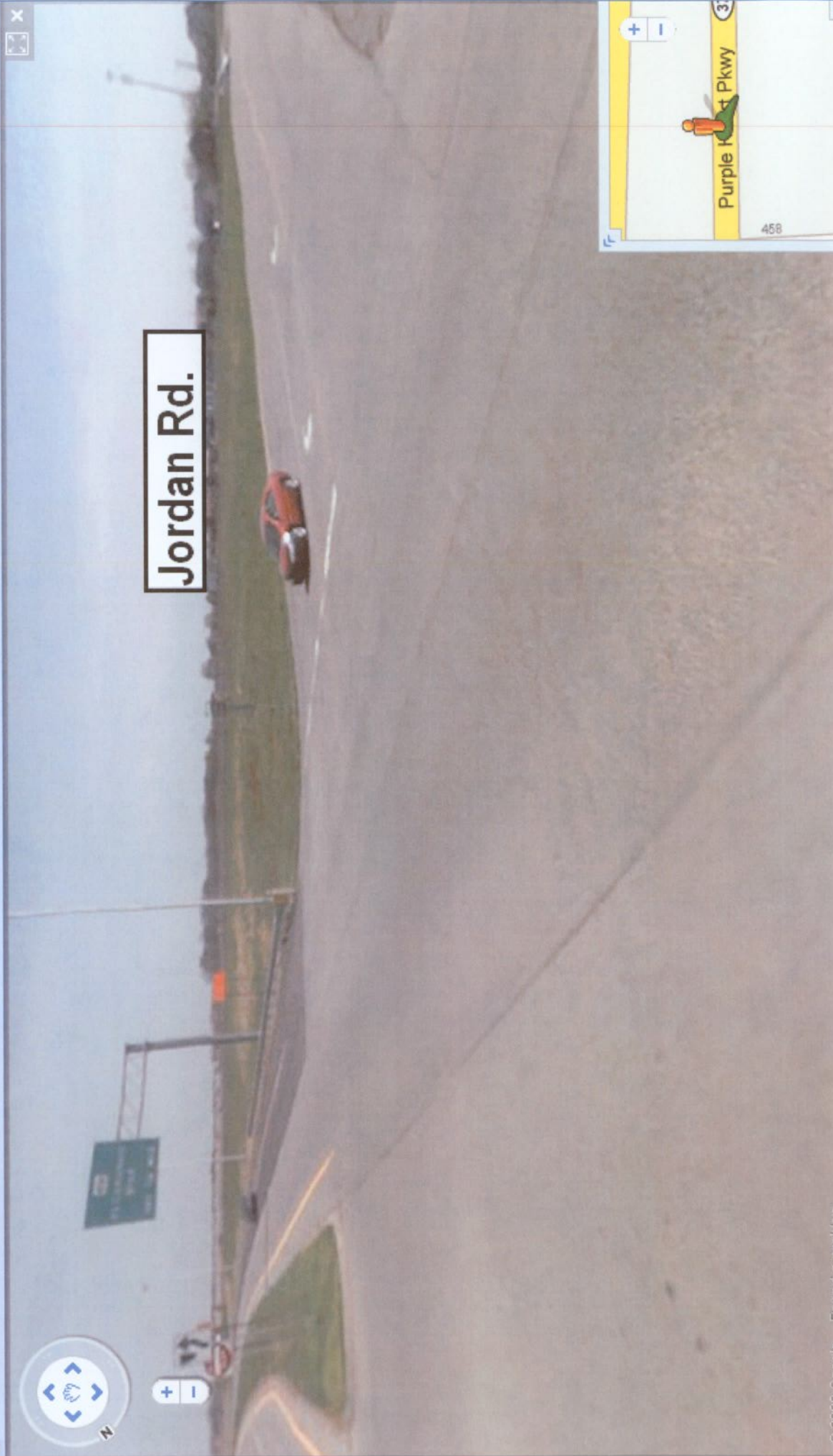
Slower

Special Case: 0-NONE Cnty Seq: 1 Frames: 1

Route: BR374

County: MONTGOMERY





Purple Heart Pkwy, Clarksville, TN, United States
Address is approximate

Jordan Rd.

Purple Heart Pkwy

Purple Heart Pkwy

TDOT Region 3 Traffic Office

MONTGOMERY CO.
SR - 374 AT JORDAN RD.
THURSDAY 04/23/2009
WEATHER - SUNNY

File Name : SR-374 @ Jordan Rd.pwf 2
Site Code : 63659374
Start Date : 4/23/2009
Page No : 1

Groups Printed- Unshifted

	SOUTH JORDAN RD. From North				SR-374 From East				JORDAN RD. From South				SR-374 From West				Int. Total
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	
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		
07:00 AM	31	2	5	38	16	140	0	156	9	9	3	21	5	103	11	119	334
07:15 AM	12	1	9	22	21	152	2	175	14	6	12	32	6	117	28	151	380
07:30 AM	24	3	8	35	17	181	2	200	1	4	12	17	4	72	17	93	345
07:45 AM	31	8	5	44	11	145	3	159	2	12	12	26	2	69	38	109	338
Total	98	14	27	139	65	618	7	690	26	31	39	96	17	361	94	472	1397
08:00 AM	26	14	9	49	9	109	3	121	1	2	5	8	4	70	9	83	261
08:15 AM	17	4	3	24	4	121	3	128	2	5	6	13	2	67	13	82	247
08:30 AM	12	5	3	20	9	102	3	114	3	5	9	17	1	75	14	90	241
08:45 AM	20	2	9	31	10	120	1	131	3	5	8	16	4	85	13	102	280
Total	75	25	24	124	32	452	10	494	9	17	28	54	11	297	49	357	1029

BREAK

11:00 AM	19	13	11	43	11	77	4	92	4	4	7	15	2	82	24	108	258
11:15 AM	21	3	13	37	14	95	7	116	1	6	11	18	3	88	17	108	279
11:30 AM	13	0	12	25	9	85	5	99	2	4	2	8	6	78	12	96	228
11:45 AM	12	4	14	30	17	122	4	143	4	2	4	10	7	79	11	97	280
Total	65	20	50	135	51	379	20	450	11	16	24	51	18	327	64	409	1045
12:00 PM	10	5	11	26	14	95	4	113	6	3	7	16	5	103	24	132	287
12:15 PM	25	5	17	47	14	86	2	102	2	5	10	17	8	100	19	127	293
12:30 PM	35	6	13	54	9	82	4	95	4	6	3	13	6	80	13	99	261
12:45 PM	23	5	9	37	11	95	7	113	1	6	2	9	12	91	13	116	275
Total	93	21	50	164	48	358	17	423	13	20	22	55	31	374	69	474	1116

BREAK

02:00 PM	20	5	9	34	14	81	3	98	4	7	3	14	6	112	21	139	285
02:15 PM	13	7	15	35	7	79	3	89	4	3	5	12	5	107	32	144	280
02:30 PM	13	6	17	36	16	108	10	134	6	6	4	16	7	110	26	143	329
02:45 PM	33	15	17	65	16	99	3	118	2	5	6	13	8	126	24	158	354
Total	79	33	58	170	53	367	19	439	16	21	18	55	26	455	103	584	1248
03:00 PM	32	16	17	65	13	107	2	122	3	3	4	10	8	116	26	150	347
03:15 PM	23	5	16	44	10	114	4	128	5	4	8	17	4	126	18	148	337
03:30 PM	18	3	19	40	17	125	4	146	7	2	5	14	11	141	22	174	374
03:45 PM	24	4	20	48	21	121	5	147	6	6	8	20	17	196	24	237	452
Total	97	28	72	197	61	467	15	543	21	15	25	61	40	579	90	709	1510
04:00 PM	20	5	20	45	16	131	7	154	3	6	6	15	17	170	30	217	431
04:15 PM	13	10	12	35	19	130	7	156	6	10	6	22	9	163	33	205	418
04:30 PM	29	11	17	57	16	105	7	128	6	3	7	16	19	140	29	188	389
04:45 PM	24	8	20	52	14	127	4	145	5	6	9	20	16	154	37	207	424
Total	86	34	69	189	65	493	25	583	20	25	28	73	61	627	129	817	1662
05:00 PM	35	10	16	61	18	121	7	146	9	7	9	25	14	151	36	201	433
05:15 PM	32	7	22	61	19	118	7	144	8	11	1	20	16	152	41	209	434
05:30 PM	27	9	24	60	20	111	7	138	4	11	6	21	13	155	44	212	431
05:45 PM	14	6	20	40	17	105	7	129	6	13	17	36	12	161	36	209	414
Total	108	32	82	222	74	455	28	557	27	42	33	102	55	619	157	831	1712
Grand Total	701	207	432	1340	449	3589	141	4179	143	187	217	547	259	3639	755	4653	10719
Apprch %	52.3	15.4	32.2		10.7	85.9	3.4		26.1	34.2	39.7		5.6	78.2	16.2		
Total %	6.5	1.9	4.0	12.5	4.2	33.5	1.3	39.0	1.3	1.7	2.0	5.1	2.4	33.9	7.0	43.4	

ALL RIGHTS INCLUDED

Signal Warrants - Summary

Major Street Approaches

Eastbound: SR-374

Number of Lanes: 2

Approach Speed: 45

Total Approach Volume: 4,653

Westbound: SR-374

Number of Lanes: 2

Approach Speed: 45

Total Approach Volume: 4,179

Minor Street Approaches

Northbound: JORDAN RD.

Number of Lanes: 1

Total Approach Volume: 547

Southbound: SOUTH JORDAN RD.

Number of Lanes: 1

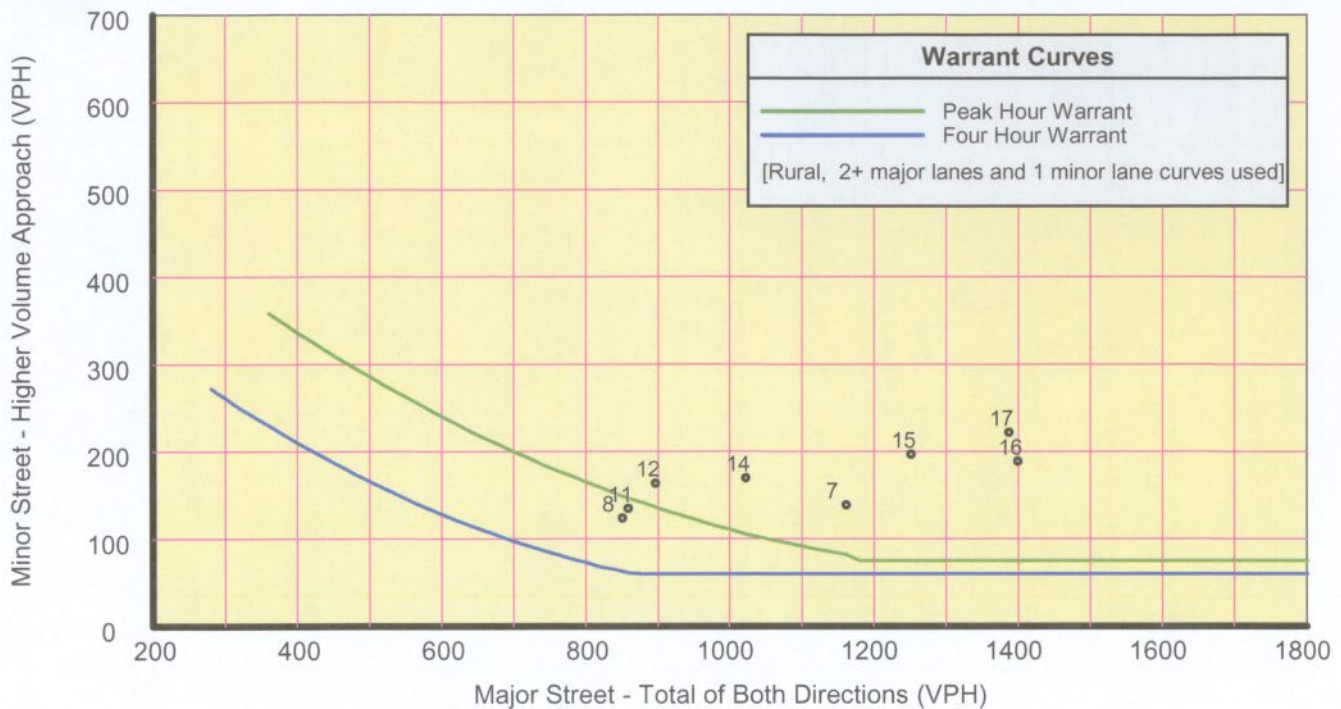
Total Approach Volume: 1,340

Warrant Summary (Rural values apply.)

Warrant 1 - Eight Hour Vehicular Volumes	Satisfied
Warrant 1A - Minimum Vehicular Volume Satisfied	
Required volumes reached for 8 hours, 8 are needed	
Warrant 1B - Interruption of Continuous Traffic Satisfied	
Required volumes reached for 8 hours, 8 are needed	
Warrant 1 A&B - Combination of Warrants Satisfied	
Required volumes reached for 8 hours, 8 are needed	
Warrant 2 - Four Hour Volumes	Satisfied
Number of hours (8) volumes exceed minimum $\geq$ minimum required (4).	
Warrant 3 - Peak Hour	Satisfied
Warrant 3A - Peak Hour Delay Not Satisfied	
Total approach volumes and delays on minor street do not exceed minimums for any hour.	
Warrant 3B - Peak Hour Volumes Satisfied	
Volumes exceed minimums for at least one hour.	
Warrant 4 - Pedestrian Volumes	Not Evaluated
Warrant 5 - School Crossing	Not Evaluated
Warrant 6 - Coordinated Signal System	Not Evaluated
Warrant 7 - Crash Experience	Not Evaluated
Warrant 8 - Roadway Network	Not Evaluated

ALL RIGHTS INCLUDED

Signal Warrants - Summary



Analysis of 8-Hour Volume Warrants:

Hour Begin	Major Total	Higher Minor Vol	Dir	War-1A			War-1B			War-1A&B		
				Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
01:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
02:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
03:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
04:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
05:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
06:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
07:00	1,162	139	SB	420-Yes	105-Yes	Both	630-Yes	53-Yes	Both	504-Yes	84-Yes	Both
08:00	851	124	SB	420-Yes	105-Yes	Both	630-Yes	53-Yes	Both	504-Yes	84-Yes	Both
09:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
10:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
11:00	859	135	SB	420-Yes	105-Yes	Both	630-Yes	53-Yes	Both	504-Yes	84-Yes	Both
12:00	897	164	SB	420-Yes	105-Yes	Both	630-Yes	53-Yes	Both	504-Yes	84-Yes	Both
13:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
14:00	1,023	170	SB	420-Yes	105-Yes	Both	630-Yes	53-Yes	Both	504-Yes	84-Yes	Both
15:00	1,252	197	SB	420-Yes	105-Yes	Both	630-Yes	53-Yes	Both	504-Yes	84-Yes	Both
16:00	1,400	189	SB	420-Yes	105-Yes	Both	630-Yes	53-Yes	Both	504-Yes	84-Yes	Both
17:00	1,388	222	SB	420-Yes	105-Yes	Both	630-Yes	53-Yes	Both	504-Yes	84-Yes	Both
18:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
19:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
20:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
21:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
22:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---
23:00	0	0	NB	420-No	105-No	---	630-No	53-No	---	504-No	84-No	---



Results

County	Route	Sp Cse	Co Seq	Log Mile	Case Number	Location	Type of Crash	Date of Crash	Time of Crash	Total Killed	Total Incap	Total Other	Manner of First Collision	Total Ini	First Harmful Event	Total Veh	Light Conditions
MONTGOMERY	SR374	0-NONE	1	12.254	8228831	At an Intersection	ip Damage (ovr)	02/28/2004	2210	0	0	0	Angle	0	Vehicle in Transport	2	Dark-Not Lighted
MONTGOMERY	SR374	0-NONE	1	12.254	9658551	At an Intersection	ip Damage (ovr)	09/22/2004	758	0	0	0	Angle	0	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	8058091	At an Intersection	ip Damage (ovr)	09/27/2004	1620	0	0	0	No Collision w/ Vehicle	0	Ditch	1	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9690225	At an Intersection	ip Damage (ovr)	04/15/2005	1105	0	0	0	Angle	0	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9657961	At an Intersection	ip Damage (ovr)	09/09/2005	1839	0	0	0	Rear-End	0	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	8904237	At an Intersection	ip Damage (ovr)	11/17/2005	1530	0	0	0	Angle	0	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	7877186	At an Intersection	ip Damage (ovr)	03/29/2006	1454	0	0	0	Angle	0	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9302188	At an Intersection	ip Damage (ovr)	03/01/2007	1736	0	0	0	Rear-End	0	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9302458	At an Intersection	ip Damage (ovr)	03/27/2007	1224	0	0	0	No Collision w/ Vehicle	0	Utility Pole	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9186573	At an Intersection	ip Damage (ovr)	05/16/2007	1110	0	0	0	Angle	0	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9546156	At an Intersection	ip Damage (ovr)	06/04/2007	1559	0	0	0	Angle	0	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9302191	At an Intersection	ip Damage (ovr)	06/23/2007	1600	0	0	0	Angle	0	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	1028489	At an Intersection	ip Damage (ovr)	08/03/2007	1256	0	0	0	Angle	0	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	7892572	At an Intersection	Ion-Incap Injury	10/04/2003	1931	0	0	2	Angle	1	Vehicle in Transport	2	Dark-Not Lighted
MONTGOMERY	SR374	0-NONE	1	12.254	8229219	At an Intersection	Ion-Incap Injury	03/03/2004	1231	0	0	1	Angle	1	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9658493	At an Intersection	Incap Injury	11/23/2004	1737	0	1	0	Angle	1	Vehicle in Transport	2	Dark-Lighted
MONTGOMERY	SR374	0-NONE	1	12.254	9689834	At an Intersection	Ion-Incap Injury	12/08/2004	706	0	0	1	Angle	1	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	8058591	At an Intersection	Ion-Incap Injury	05/21/2005	2230	0	0	1	No Collision w/ Vehicle	1	Other Animal	1	Dark-Lighted
MONTGOMERY	SR374	0-NONE	1	12.254	8904635	At an Intersection	Ion-Incap Injury	06/25/2005	1310	0	0	1	Angle	1	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9040182	At an Intersection	Ion-Incap Injury	08/19/2005	1135	0	0	1	Angle	1	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9038252	At an Intersection	Ion-Incap Injury	12/05/2005	1641	0	0	1	Angle	1	Vehicle in Transport	2	Dusk
MONTGOMERY	SR374	0-NONE	1	12.254	9461026	At an Intersection	Ion-Incap Injury	04/18/2006	1232	0	0	1	No Collision w/ Vehicle	1	Ditch	1	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9384814	At an Intersection	Ion-Incap Injury	01/22/2007	1919	0	0	1	Angle	1	Vehicle in Transport	2	Dark-Lighted
MONTGOMERY	SR374	0-NONE	1	12.254	10128683	At an Intersection	Incap Injury	03/07/2008	1243	0	1	0	Angle	1	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	10070846	At an Intersection	Ion-Incap Injury	07/18/2008	1522	0	0	1	Angle	1	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	10237642	At an Intersection	Ion-Incap Injury	08/12/2008	1540	0	0	1	Sideswipe, Same Dir	1	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	7798982	At an Intersection	Ion-Incap Injury	02/13/2003	1439	0	0	2	Angle	2	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	8095389	At an Intersection	Incap Injury	07/19/2003	1655	0	2	0	Angle	2	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9689789	At an Intersection	Ion-Incap Injury	12/31/2004	1655	0	0	2	Sideswipe, Same Dir	2	Vehicle in Transport	2	Dark-Not Lighted
MONTGOMERY	SR374	0-NONE	1	12.254	9658569	At an Intersection	Ion-Incap Injury	01/03/2005	1631	0	0	2	Angle	2	Vehicle in Transport	2	Dusk
MONTGOMERY	SR374	0-NONE	1	12.254	9460994	At an Intersection	Ion-Incap Injury	11/06/2006	1646	0	0	2	Angle	2	Vehicle in Transport	4	Dark-Lighted
MONTGOMERY	SR374	0-NONE	1	12.254	7799002	At an Intersection	Ion-Incap Injury	11/26/2003	1735	0	0	3	Angle	3	Vehicle in Transport	2	Dark-Lighted
MONTGOMERY	SR374	0-NONE	1	12.254	8905115	At an Intersection	Ion-Incap Injury	04/25/2006	2257	0	0	3	Angle	3	Vehicle in Transport	3	Dark-Lighted
MONTGOMERY	SR374	0-NONE	1	12.254	10284710	At an Intersection	Ion-Incap Injury	10/02/2007	1450	0	0	3	Angle	3	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	8095439	At an Intersection	Incap Injury	03/04/2004	1453	0	4	1	Angle	5	Vehicle in Transport	2	Daylight
MONTGOMERY	SR374	0-NONE	1	12.254	9661622	At an Intersection	Fatal	10/16/2004	2220	1	0	0	No Collision w/ Vehicle	0	Highway Traffic Sign Post	2	Dark-Lighted

**Tennessee Department of Transportation
Region 3 Traffic Engineering**

ACCIDENT ANALYSIS

County: Montgomery
Route: SR374 at Jordan Road

City: Clarksville Log Mile Beginning: _____
Date: _____ Log Mile Ending: _____

Intersection: SR374 at Jordan Road

Project #: _____
Accidents From: 1/1/2003 To: 12/31/2008

Type of Accident	Years Evaluated						Total	Percentage of Total (%)
	2003	2004	2005	2006	2007	2008		
Rear End	0	0	1	0	1	0	2	5.6
Out of Control	0	2	1	1	1	0	5	13.9
Sideswipe	0	1	0	0	0	1	2	5.6
Right Angle	4	6	6	3	5	3	27	75.0
Left Turn	0	0	0	0	0	0	0	0.0
Head On	0	0	0	0	0	0	0	0.0
Other	0	0	0	0	0	0	0	0.0
Totals:	4	9	8	4	7	4	36	100.0

							Total	Percentage of Total (%)
Fatalities	0	1	0	0	0	0	1	2.8
Injuries	4	5	5	3	2	3	22	61.1
Night Time	2	4	2	2	1	0	11	30.6

Count Month: April

Day of Week: Thursday

ACCIDENT RATE ANALYSIS

County: Montgomery City: Clarksville Log Mile Beginning: 0.00
Route: SR374 at Jordan F Date: 1/0/00 Log Mile Ending: 0.00

Intersection: SR374 at Jordan Road

*Check One:

☐ Street Section

☐ Spot

☒ Intersection

ADT: _____ (V)
Length (mi): _____ (L)

ADT: _____ (V)

10719 (C)

0.90 (F_d)

2.11 (F_p)

20,355 (V)

Number of Accidents: _____

36 (A)

Time Period of Accidents: From: 1/1/03 to 12/31/08

Number of Days in Study: _____

2,191 (T)

Highway Type: Urban Divided

Statewide Average Rate: _____

0.26 (R_a)

Day of Week Factor: _____

0.9 (F_d)

24 Hour Expansion Factor: _____

2.11 (F_p)

Exposure Rate (E):

Exposure Rate (E): _____

44.60 (E)

Actual Accident Rate (R):

R = (A/E) _____

0.81 (R)

Critical Accident Rate (R_c):

(Confidence Level 99%)

R_c = R_a + 2.327(R_a / E)^{1/2} + 1/2E _____

0.45 (R_c)

= 0.26 + 0.178 + 0.011 = 0.45

Severity Index (SI):

SI = $\frac{4 * (\text{\# of Fatal Accidents}) + (\text{\# of Injury Accidents})}{(\text{Total \# of Accidents})}$ _____

0.72 (SI)

Fatal Accidents: 1 Injury Accidents: 22

Summary:

Actual Accident Rate: 0.81 Critical Accident Rate: 0.45 Ratio (R / R_c): 1.80

Statewide Average Rate: 0.26 Severity Index: 0.72

ACCIDENT RATE ANALYSIS SUMMARY

Location: SR374 at Jordan Road

Date: 1/0/00

Number of Fatal Accidents:	1
Number of Injury Accidents:	22
Total Number of Accidents:	36
Period of Accidents:	1/1/03 to 12/31/08
Number of Days in Study:	2,191
Highway Type (Functional Classification):	Urban Divided
Statewide Average Accident Rate:	0.26
Day of Week Factor:	0.9
24 Hour Expansion Factor:	2.11
8 Hour Entering Volume:	10,719
Adjusted 24 Hour Entering Volume:	20,355
Exposure Rate:	44.60
Actual Accident Rate:	0.81
Critical Accident Rate:	0.45
Severity Index:	0.72
Ratio (Actual/Critical):	1.80