



June 12, 2006

Mr. Bruce Houdesheldt
Lennar Communities, Inc.
1075 Creekside Ridge Drive, Suite 110
Roseville, CA 95678

Re: Traffic Study of the North Douglas II Subdivision in Rancho Cordova, CA RS05-2175A

Dear Mr. Houdesheldt:

Fehr & Peers has completed a traffic analysis for the North Douglas II (Whitlow) residential subdivision project to be located north of Douglas Road between Sunrise Boulevard and Grant Line Road in the City of Rancho Cordova. The purpose of this study is to determine any project-specific traffic impacts at nearby study intersections under near-term conditions. This study is based on our previous traffic analysis for North Douglas II (documented in letter reports dated February 15, 2006, and December 20, 2005) and our meeting with you and City staff on May 16, 2006.

PROJECT DESCRIPTION

According to the project site plan (*North Douglas II*, Wood Rodgers, September 2005), the North Douglas II subdivision will consist of 153 single family dwelling units. Access to North Douglas II will be provided through the proposed North Douglas I adjacent subdivision that has two access connections to Americanos Boulevard. In addition, access to Grant Line Road from North Douglas I was assumed at the proposed extension of Raymer Way (internal collector street within the North Douglas I subdivision). Figure 1 illustrates the project location, neighborhood street layout, and access to Americanos Boulevard and Grant Line Road through the North Douglas I subdivision.

NEAR-TERM CONDITIONS

We evaluated traffic impacts of the proposed North Douglas II subdivision project at the following study intersections under near-term conditions:

1. Douglas Road/Americanos Boulevard
2. Douglas Road/Grant Line Road
3. Raymer Way/Grant Line Road (proposed roadway extension from the North Douglas subdivision)

For the purpose of this traffic study, near-term conditions includes existing traffic plus traffic from approved projects within the Sunridge Specific Plan, most of which are currently under construction. These projects include the following:

- North Douglas I subdivision - 665 single family residential units located north of Douglas Road adjacent to the proposed project

- Anatolia I, Anatolia II, Anatolia III, Anthology at Anatolia & Sundance, Anatolia IV, Sunridge Park, and Lot J - approximately 1,800 (mostly single-family) residential units located south of Douglas Road between Sunrise Boulevard and Jaeger Road (this information is based on the *Rancho Cordova Transportation Infrastructure Phasing Study* prepared by Fehr & Peers in March 2006 for the City of Rancho Cordova). Access to these residential subdivision projects would be provided via Jaeger Road from Douglas Road and Chrysanthy Boulevard from Sunrise Boulevard

Near-Term No Project Conditions

Peak hour turning movement volumes at the three study intersection under "Near-Term No Project" conditions were developed by adding existing traffic counts (conducted in November 2005) to the estimated peak hour trips from the residential projects listed above. Trips from the surrounding residential projects were assigned to the study intersections based on assumed trip distribution percentages that are consistent with the *Sunrise Douglas Community Plan/Sun Ridge Specific Plan* (Sacramento County DERA, March 1999).

Assumed Lane Configurations

The following lane configurations were assumed in place under near-term conditions for the study intersections using information provided by Murray Smith & Associates based on their current design work on the Sunrise Douglas Specific Plan (refer to Figure 2):

Douglas Road/Americanos Boulevard (signalized T-intersection)

- | | |
|----------------------|--|
| Eastbound approach: | one exclusive left-turn lane and a through lane |
| Westbound approach: | one shared through/right-turn lane |
| Southbound approach: | one exclusive left-turn lane and one exclusive right-turn lane |

Douglas Road/Grant Line Road (signalized T-intersection)

- | | |
|----------------------|--|
| Eastbound approach: | one exclusive left-turn lane and one exclusive right-turn lane |
| Northbound approach: | one exclusive left-turn lane and one through lane |
| Southbound approach: | one exclusive right-turn lane and one through lane |

Raymer Way/Grant Line Road (side-street stop-controlled T-intersection)

- | | |
|----------------------|--|
| Eastbound approach: | one exclusive left-turn lane and one exclusive right-turn lane |
| Northbound approach: | one exclusive left-turn lane and one through lane |
| Southbound approach: | one exclusive right-turn lane and one through lane |

Figure 2 shows the peak hour traffic volumes at the study intersections under "Near-Term No Project" conditions. Traffic operations at these intersections were analyzed based on criteria contained in *Interim Materials on Highway Capacity - Circular 212* (Transportation Research Board, 1980) for signalized intersections and on criteria in the *Highway Capacity Manual 2000* (Transportation Research Board, 2000) for signalized intersections. Table 1 shows the peak hour levels of service at each of the study intersections under this scenario (see Attachment A for technical calculations). As shown, all study intersections operate at LOS D or better during both AM and PM peak hours, which is acceptable according City of Rancho Cordova standards.

TABLE 1 PEAK HOUR INTERSECTION LEVEL OF SERVICE – NEAR-TERM NO PROJECT CONDITIONS			
Study Intersection	Traffic Control	Near-Term No Project Conditions	
		AM peak	PM peak
Douglas Road/Americanos Boulevard	Signalized	0.57 (A) ¹	0.39 (A)
Douglas Road/Grant Line Road	Signalized	0.46 (A)	0.34 (A)
Grant Line Road/Raymer Way (extension)	Side-street Stop	31.4 (D) ²	16.8 (C)

NOTES:

¹ 0.57 (A) = Volume-to-Capacity Ratio (Level of Service)

² 31.4 (D) = Seconds of delay per vehicle for worst case movement (Level of Service)

Traffic operations at the study intersections were analyzed based on criteria contained in *Interim Materials on Highway Capacity - Circular 212* (Transportation Research Board, 1980) for signalized study intersections and the *Highway Capacity Manual 2000* (Transportation Research Board, 2000) for unsignalized intersections

Source: Fehr & Peers, 2006.

PROJECT TRIP GENERATION AND DISTRIBUTION

Table 2 shows the AM and PM peak hour trip generation of the proposed North Douglas II single family residential project based on trip rates contained in the seventh edition of *Trip Generation* (Institute of Transportation Engineers, 2003). As shown, the project is expected to generate a total of 115 AM and 155 PM peak hour vehicle trips.

Project	Land Use	Unit	Trip Rate				Trips			
			AM Peak		PM Peak		AM Peak		PM Peak	
			IN	OUT	IN	OUT	IN	OUT	IN	OUT
North Douglas II	Single Family Residential	153 DU's ²	0.19	0.56	0.64	0.37	29	86	98	57

Note: ¹ Trip generation rates for the proposed land use were taken from *Trip Generation, 7th Edition* (Institute of Transportation Engineers (ITE), 2003).

² DU=dwelling units

Source: Fehr & Peers, 2006

Project trips from North Douglas II were assigned to the roadway network according to the following distribution percentages, which are consistent with trip distribution assumptions published in the *Sunrise Douglas Community Plan/Sun Ridge Specific Plan*:

- 85 percent to/from the west on Douglas Road
- 10 percent to/from the north on Grant Line Road
- 5 percent to/from the south on Grant Line Road

Traffic volumes from the North Douglas II project were added to the "Near-Term No Project" volumes to yield "Near-term Plus Project" conditions. Figure 3 shows the peak hour turning levels of service at each of the study intersections under "Near-Term Plus Project" conditions (see Attachment A for technical calculations). As shown, all study intersections operate at LOS D or better during both AM and PM peak hours with the addition of project traffic, which is acceptable according to City of Rancho Cordova standards.

Study Intersection	Traffic Control	Near-Term No Project		Near-Term Plus Project	
		AM peak	PM peak	AM peak	PM peak
Douglas Road/Americanos Boulevard	Signalized	0.57 (A) ¹	0.39 (A)	0.61(B)	0.44 (A)
Douglas Road/Grant Line Road	Signalized	0.46 (A)	0.34 (A)	0.46 (A)	0.35 (A)
Grant Line Road/Raymer Way (extension)	Side-street Stop	31.4 (D) ²	16.8 (C)	33.0 (D)	17.2 (C)

NOTES:

¹ 0.57 (A) = Volume-to-Capacity Ratio (Level of Service)

² 31.4 (D) = Seconds of delay per vehicle for worst case movement (Level of Service)

Traffic operations at the study intersections were analyzed based on criteria contained in *Interim Materials on Highway Capacity - Circular 212* (Transportation Research Board, 1980) for signalized study intersections and the *Highway Capacity Manual 2000* (Transportation Research Board, 2000) for unsignalized intersections

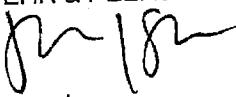
Source: Fehr & Peers, 2006.

Based on our analysis, the North Douglas II subdivision will not trigger any project-specific traffic impacts at the study intersections that were analyzed. The assumed near-Term lane configurations and traffic control would be adequate to accommodate the project traffic at these locations.

We hope this information is helpful. Please feel free to contact us with any questions.

Sincerely,

FEHR & PEERS


Jason Isaac
Senior Transportation Engineer


Jeffrey Clark, P.E.
Associate



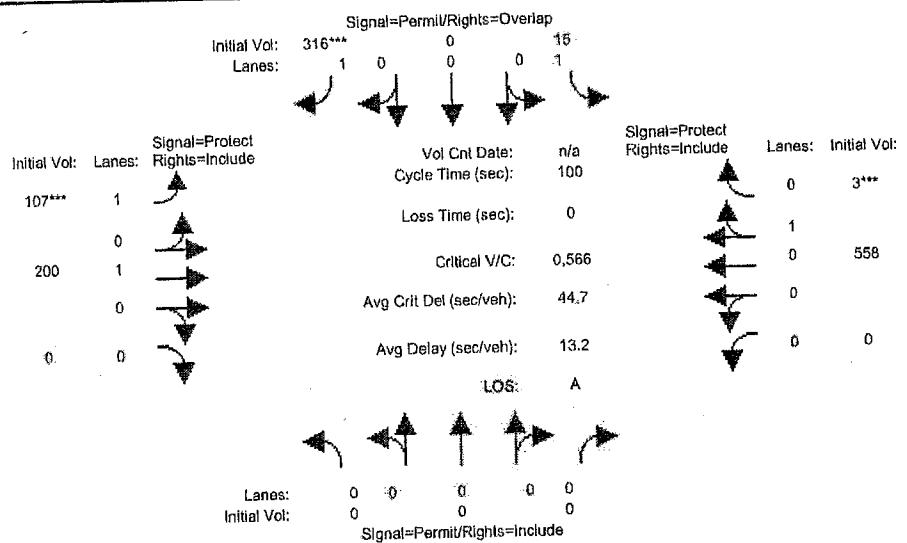
ATTACHMENT A
TECHNICAL CALCULATIONS

NEAR-TERM NO PROJECT
AND
NEAR-TERM PLUS PROJECT CONDITIONS

North Douglas II (Whitlow)

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Near Term No Project AM

Intersection #134: Americanos/Douglas



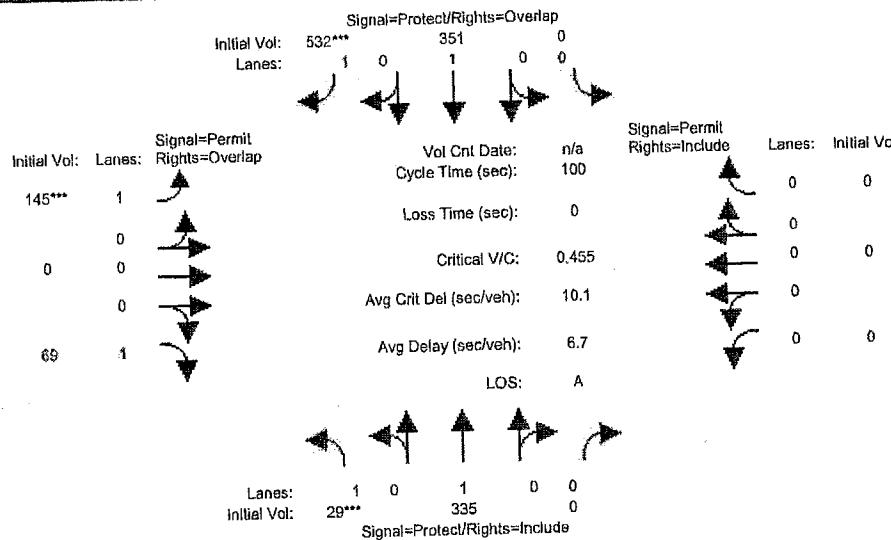
Approach:	North Bound			South Bound			East Bound			West Bound				
	L	-	T	-	R	L	-	T	-	R	L	-	T	-
Movement:														
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Volume Module:														
Base Vol:	0	0	0	15	0	316	107	200	0	0	558	3		
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Initial Bse:	0	0	0	15	0	316	107	200	0	0	558	3		
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0		
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0		
Initial Fut:	0	0	0	15	0	316	107	200	0	0	558	3		
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PHF Volume:	0	0	0	15	0	316	107	200	0	0	558	3		
Reducet Vol:	0	0	0	0	0	0	0	0	0	0	0	0		
Reduced Vol:	0	0	0	15	0	316	107	200	0	0	558	3		
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Final Vol.:	0	0	0	15	0	316	107	200	0	0	558	3		
Saturation Flow Module:														
Sat/Lane:	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550		
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	0.99	0.01		
Final Sat.:	0	0	0	1550	0	1550	1550	1550	0	0	1542	8		
Capacity Analysis Module:														
Vol/Sat:	0.00	0.00	0.00	0.01	0.00	0.20	0.07	0.13	0.00	0.00	0.36	0.36		
Crit Vol:	0					316	0				561			
Crit Moves:	****	****	****	****	****						****			

COMPARE

North Douglas II (Willow)

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Near Term No Project AM

Intersection #108: Grant Line Road/Douglas Road



Volume Module:											
Base Vol:	29	335	0	0	351	532	145	0	69	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	29	335	0	0	351	532	145	0	69	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	29	335	0	0	351	532	145	0	69	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	29	335	0	0	351	532	145	0	69	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	29	335	0	0	351	532	145	0	69	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	29	335	0	0	351	532	145	0	69	0	0

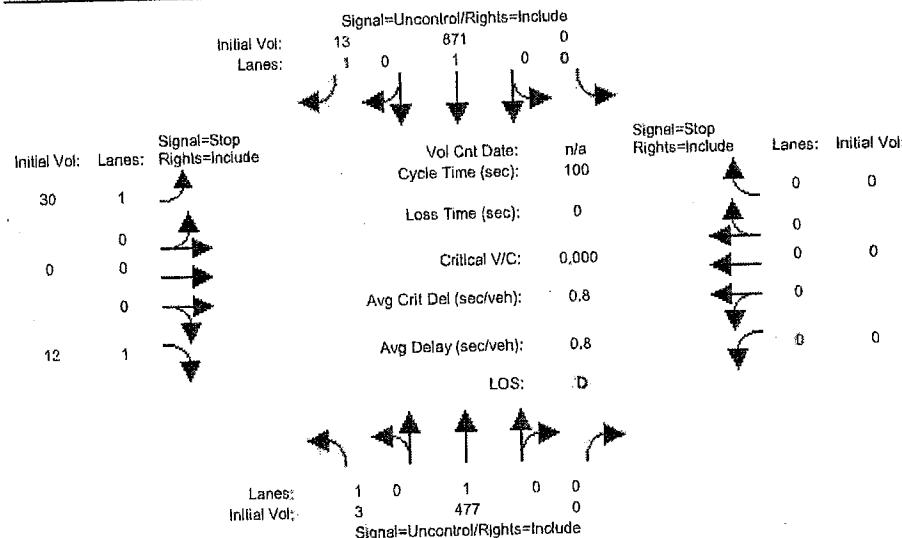
Saturation Flow Module:	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
Sat/Lane:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adjustment:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lanes:	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1550	1550	0	0	1550	1550	1550	0	1550	0	0	0

Capacity Analysis Module:	0.02	0.22	0.00	0.00	0.23	0.34	0.09	0.00	0.04	0.00	0.00	0.00
Vol/Sat:												0
Crit Vol:	29					532	145					
Crit Moves:	****					****	****					

North Douglas II (Willow)

Level Of Service Computation Report
2000 HCM Unsigned (Future Volume Alternative)
Near Term No Project AM

Intersection #1267: Grant Line Road/Raymer Way extension



Approach:	North Bound			South Bound			East Bound			West Bound					
	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
<hr/>															
Volume Module:															
Base Vol:	3	477	0	0	871	13	30	0	12	0	0	0	0	0	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	3	477	0	0	871	13	30	0	12	0	0	0	0	0	
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	3	477	0	0	871	13	30	0	12	0	0	0	0	0	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	3	477	0	0	871	13	30	0	12	0	0	0	0	0	
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Final Vol.:	3	477	0	0	871	13	30	0	12	0	0	0	0	0	
Critical Gap Module:															
Critical Gp:	4.1	xxxx	xxxxxx	xxxxxx	xxxx	xxxxx	6.4	xxxx	6.2	xxxxx	xxxx	xxxxx	xxxxx	xxxx	
FollowUpTim:	2.2	xxxx	xxxxxx	xxxxxx	xxxx	xxxxx	3.5	xxxx	3.3	xxxxx	xxxx	xxxxx	xxxxx	xxxx	
<hr/>															
Capacity Module:															
Cnflict Vol:	884	xxxx	xxxxxx	xxxx	xxxxx	xxxxxx	1354	xxxx	871	xxxx	xxxxx	xxxxx	xxxxx	xxxx	
Potent Cap.:	774	xxxx	xxxxxx	xxxx	xxxxx	xxxxxx	167	xxxx	353	xxxx	xxxxx	xxxxx	xxxxx	xxxx	
Move Cap.:	774	xxxx	xxxxxx	xxxx	xxxxx	xxxxxx	166	xxxx	353	xxxx	xxxxx	xxxxx	xxxxx	xxxx	
Volume/Cap:	0.00	xxxx	xxxx	xxxx	xxxx	xxxxxx	0.18	xxxx	0.03	xxxx	xxxxx	xxxxx	xxxxx	xxxx	
<hr/>															
Level Of Service Module:															
2Way95thQ:	0.0	xxxx	xxxxxx	xxxx	xxxxx	xxxxxx	0.6	xxxx	0.1	xxxx	xxxxx	xxxxx	xxxxx	xxxx	
Control Del:	9.7	xxxx	xxxxxx	xxxx	xxxxx	xxxxxx	31.4	xxxx	15.5	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	
LOS by Move:	A	*	*	*	*	*	D	*	C	*	*	*	*	*	
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT
Shared Cap.:	xxxx	xxxx	xxxxxx	xxxx	xxxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	xxxxx	xxxxx	xxxxx	xxxx	
SharedQueue:	xxxxx	xxxx	xxxxxx	xxxx	xxxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	xxxxx	xxxxx	xxxxx	xxxx	
Shrd ConDel:	xxxxx	xxxx	xxxxxx	xxxx	xxxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	xxxxx	xxxxx	xxxxx	xxxx	
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
ApproachDel:	xxxxxx						26.9			xxxxxx				*	
ApproachLOS:	*						D								

Peak Hour Delay Signal Warrant Report

Intersection #1267 Grant Line Road/Raymer Way extension

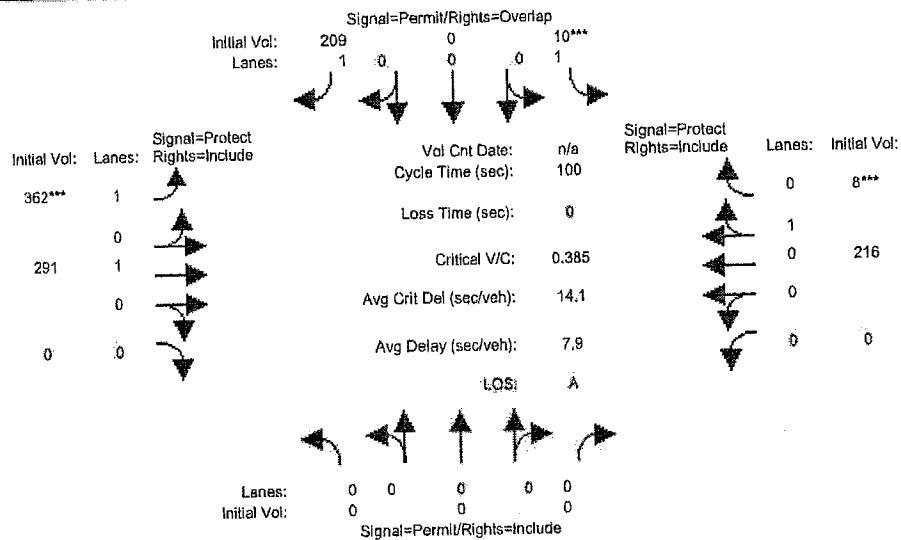
Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound					
	Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-
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North Douglas II (Whitlow)

**Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Near Term No Project PM**

Intersection #134: Americanos/Douglas

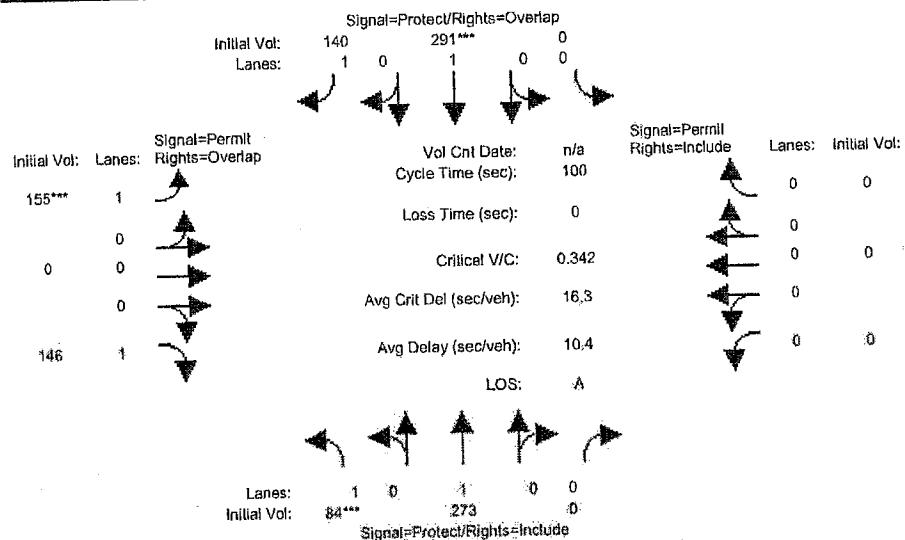


Approach:	North Bound			South Bound			East Bound			West Bound				
	L	-	T	-	R	L	-	T	-	R	L	-	T	-
Movement:														
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Volume Module:														
Base Vol:	0	0	0	10	0	209	362	291	0	0	216	8		
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Initial Bse:	0	0	0	10	0	209	362	291	0	0	216	8		
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0		
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0		
Initial Fut:	0	0	0	10	0	209	362	291	0	0	216	8		
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PHF Volume:	0	0	0	10	0	209	362	291	0	0	216	8		
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0		
Reduced Vol:	0	0	0	10	0	209	362	291	0	0	216	8		
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Final Vol.:	0	0	0	10	0	209	362	291	0	0	216	8		
Saturation Flow Module:														
Sat/Lane:	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550		
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	0.96	0.04		
Final Sat.:	0	0	0	1550	0	1550	1550	1550	0	0	1495	55		
Capacity Analysis Module:														
Vol/Sat:	0.00	0.00	0.00	0.01	0.00	0.13	0.23	0.19	0.00	0.00	0.14	0.14		
Crit Vol:	0			10			362				224			
Crit Moves:				***			****				****			

North Douglas II (Willow)

Level Of Service Computation Report
 Circular 212 Planning (Future Volume Alternative)
 Near Term No Project PM

Intersection #108: Grant Line Road/Douglas Road

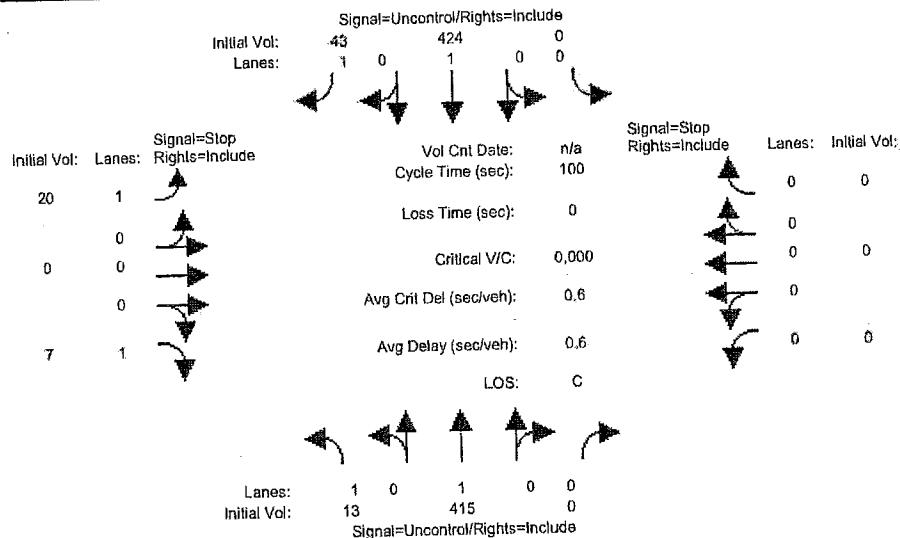


Approach:	North Bound			South Bound			East Bound			West Bound				
	L	-	T	-	R	L	-	T	-	R	L	-	T	-
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Volume Module:														
Base Vol:	84	273	0	0	291	140	155	0	146	0	0	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	84	273	0	0	291	140	155	0	146	0	0	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	84	273	0	0	291	140	155	0	146	0	0	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	84	273	0	0	291	140	155	0	146	0	0	0	0	0
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	84	273	0	0	291	140	155	0	146	0	0	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	84	273	0	0	291	140	155	0	146	0	0	0	0	0
Saturation Flow Module:														
Sat/Lane:	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Final Sat.:	1550	1550	0	0	1550	1550	1550	0	1550	0	0	0	0	0
Capacity Analysis Module:														
Vol/Sat:	0.05	0.18	0.00	0.00	0.19	0.09	0.10	0.00	0.09	0.00	0.00	0.00	0.00	0.00
Crit Vol:	84				291		155							0
Crit Moves:	****				****		****							

North Douglas II (Willow)

Level Of Service Computation Report.
2000 HCM Unsignalized (Future Volume Alternative)
Near Term No Project PM

Intersection #1267: Grant Line Road/Raymer Way extension



Approach:	North Bound			South Bound			East Bound			West Bound					
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
<hr/>															
Volume Module:															
Base Vol:	13	415	0	0	424	43	20	0	7	0	0	0	0	0	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	13	415	0	0	424	43	20	0	7	0	0	0	0	0	
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	13	415	0	0	424	43	20	0	7	0	0	0	0	0	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	13	415	0	0	424	43	20	0	7	0	0	0	0	0	
Reducet Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Final Vol.:	13	415	0	0	424	43	20	0	7	0	0	0	0	0	
Critical Gap Module:															
Critical Gp:	4.1	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	6.4	xxxxx	6.2	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
FollowUpTim:	2.2	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	3.5	xxxxx	3.3	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
<hr/>															
Capacity Module:															
CnFLICT Vol:	467	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	865	xxxxx	424	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
Potent Cap.:	1105	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	327	xxxxx	634	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
Move Cap.:	1105	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	324	xxxxx	634	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
Volume/Cap:	0.01	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	0.06	xxxxx	0.01	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
<hr/>															
Level Of Service Module:															
2Way95thQ:	0.0	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	0.2	xxxxx	0.0	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
Control Del:	8.3	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	16.8	xxxxx	10.7	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
LOS by Move:	A	*	*	*	*	*	C	*	B	*	*	*	*	*	
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT
Shared Cap.:	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
SharedQueue:	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
Shrd ConDel:	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	xxxxxx		xxxxxx				15.3		xxxxxx						
ApproachLOS:	*		*				C								

Peak Hour Delay Signal Warrant Report

Intersection #1267 Grant Line Road/Raymer Way extension

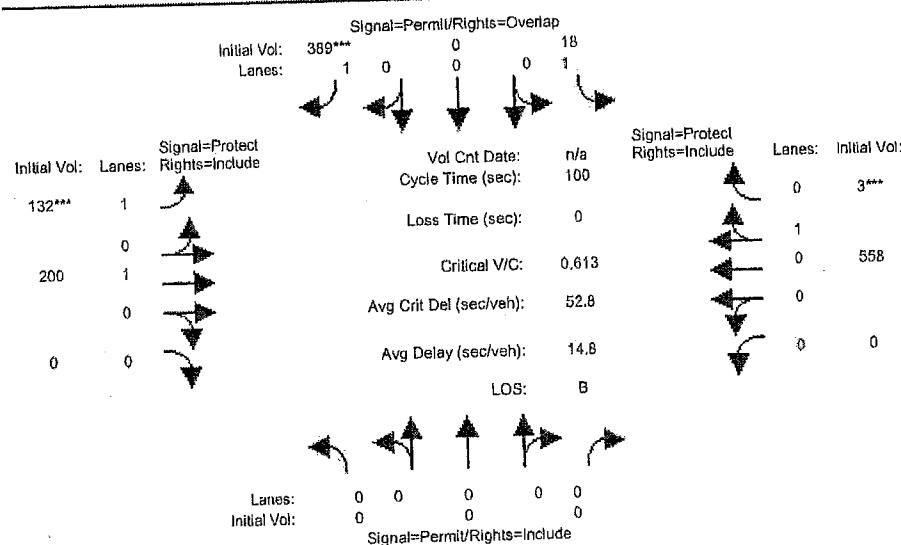
***** Future Volume Alternative: Peak Hour Warrant NOT Met *****

Approach:	North Bound			South Bound			East Bound			West Bound					
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R

North Douglas II (Willow)

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Near Term Plus Project AM

Intersection #134: Americanos/Douglas

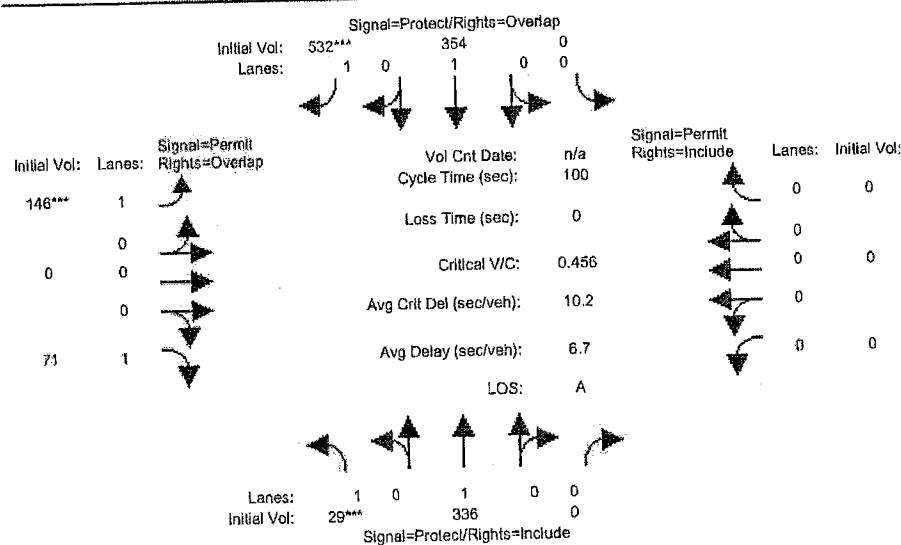


Approach:	North Bound			South Bound			East Bound			West Bound				
	L	-	T	-	R	L	-	T	-	R	L	-	T	-
Movement:														
<hr/>														
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<hr/>														
Volume Module:														
Base Vol:	0	0	0	18	0	389	132	200	0	0	558	3		
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Initial Bse:	0	0	0	18	0	389	132	200	0	0	558	3		
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0		
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0		
Initial Fut:	0	0	0	18	0	389	132	200	0	0	558	3		
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PHF Volume:	0	0	0	18	0	389	132	200	0	0	558	3		
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0		
Reduced Vol:	0	0	0	18	0	389	132	200	0	0	558	3		
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Final Vol.:	0	0	0	18	0	389	132	200	0	0	558	3		
<hr/>														
Saturation Flow Module:														
Sat/Lane:	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550		
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.99	0.01	
Final Sat.:	0	0	0	1550	0	1550	1550	1550	0	0	1542	8		
<hr/>														
Capacity Analysis Module:														
Vol/Sat:	0.00	0.00	0.00	0.01	0.00	0.25	0.09	0.13	0.00	0.00	0.36	0.36		
Crit Vol:	0					389	0				561			
Crit Moves:				****	****		****	****			****			

North Douglas II (Whitlow)

Level Of Service Computation Report
 Circular 212 Planning (Future Volume Alternative)
 Near Term Plus Project AM

Intersection #108: Grant Line Road/Douglas Road

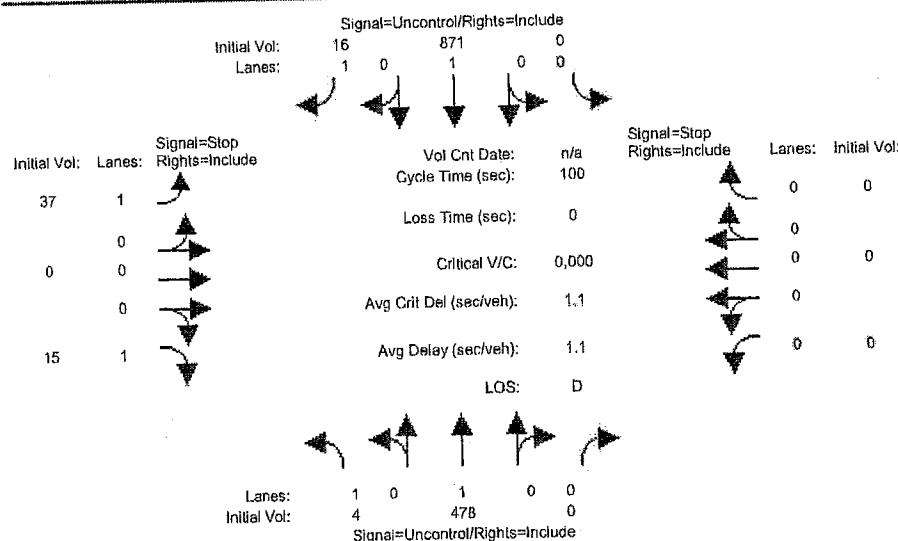


Approach:	North Bound			South Bound			East Bound			West Bound					
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<hr/>															
Volume Module:															
Base Vol:	29	336	0	0	354	532	146	0	71	0	0	0	0	0	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	29	336	0	0	354	532	146	0	71	0	0	0	0	0	
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	29	336	0	0	354	532	146	0	71	0	0	0	0	0	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	29	336	0	0	354	532	146	0	71	0	0	0	0	0	
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	29	336	0	0	354	532	146	0	71	0	0	0	0	0	
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Final Vol.:	29	336	0	0	354	532	146	0	71	0	0	0	0	0	
<hr/>															
Saturation Flow Module:															
Sat/Lane:	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Lanes:	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	
Final Sat.:	1550	1550	0	0	1550	1550	1550	0	1550	0	0	0	0	0	
<hr/>															
Capacity Analysis Module:															
Vol/Sat:	0.02	0.22	0.00	0.00	0.23	0.34	0.09	0.00	0.05	0.00	0.00	0.00	0.00	0.00	
Crit Vol:	29					532	146							0	
Crit Moves:	****					****	****								

North Douglas II (Willow)

Level Of Service Computation Report
 2000 HCM Unsigned (Future Volume Alternative)
 Near Term Plus Project AM

Intersection #1267: Grant Line Road/Raymer Way extension



Approach:	North Bound			South Bound			East Bound			West Bound					
	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
<hr/>															
Volume Module:															
Base Vol:	4	478	0	0	871	16	37	0	15	0	0	0	0	0	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	4	478	0	0	871	16	37	0	15	0	0	0	0	0	
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	4	478	0	0	871	16	37	0	15	0	0	0	0	0	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	4	478	0	0	871	16	37	0	15	0	0	0	0	0	
Reducet Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Final Vol.:	4	478	0	0	871	16	37	0	15	0	0	0	0	0	
<hr/>															
Critical Gap Module:															
Critical Gp:	4.1	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	6.4	xxxxx	6.2	xxxxx	xxxx	xxxxx	xxxxx	xxxx	
FollowUpTim:	2.2	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	3.5	xxxxx	3.3	xxxxx	xxxx	xxxxx	xxxxx	xxxx	
<hr/>															
Capacity Module:															
Cnflict Vol:	887	xxxxx	xxxxx	xxxx	xxxx	xxxxxx	1357	xxxxx	871	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	
Potent Cap.:	772	xxxxx	xxxxx	xxxx	xxxx	xxxxxx	166	xxxxx	353	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	
Move Cap.:	772	xxxxx	xxxxx	xxxx	xxxx	xxxxxx	165	xxxxx	353	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	
Volume/Cap:	0.01	xxxxx	xxxxx	xxxx	xxxx	xxxxxx	0.22	xxxxx	0.04	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	
<hr/>															
Level Of Service Module:															
2Way95thQ:	0.0	xxxxx	xxxxx	xxxx	xxxx	xxxxxx	0.8	xxxxx	0.1	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	
Control Del:	9.7	xxxxx	xxxxx	xxxxx	xxxx	xxxxxx	33.0	xxxxx	15.6	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	
LOS by Move:	A	*	*	*	*	*	D	*	C	*	*	*	*	*	
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT
Shared Cap.:	xxxxx	xxxxx	xxxxx	xxxx	xxxx	xxxxxx	xxxxx	xxxx	xxxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	
SharedQueue:	xxxxxx	xxxxx	xxxxx	xxxx	xxxx	xxxxxx	xxxxx	xxxx	xxxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	
Shrd ConDel:	xxxxxx	xxxxx	xxxxx	xxxx	xxxx	xxxxxx	xxxxx	xxxx	xxxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
ApproachDel:	xxxxxx			xxxxxx			28.0			xxxxxx			*		
ApproachLOS:	*			*			D			*			*		

Peak Hour Delay Signal Warrant Report

 Intersection #1267 Grant Line Road/Raymer Way extension

 Future Volume Alternative: Peak Hour Warrant NOT Met

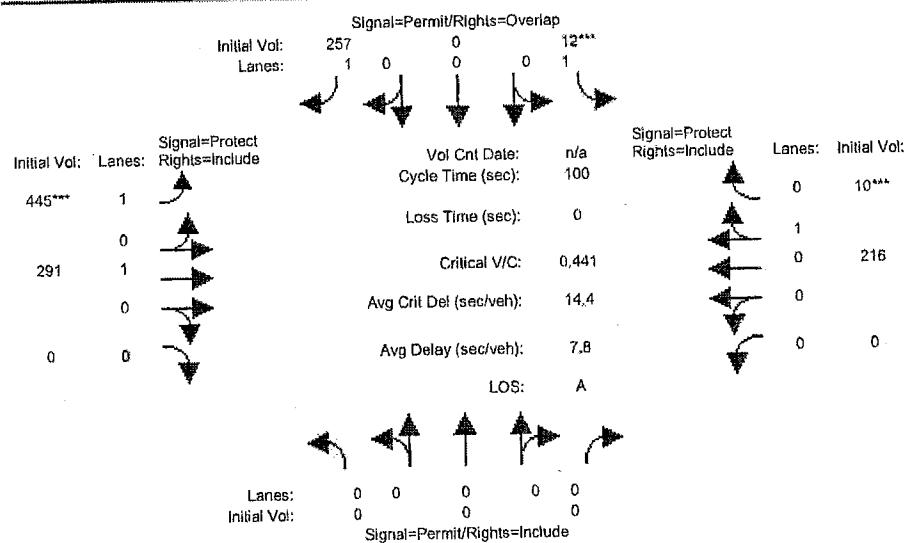
 Approach: North Bound South Bound East Bound West Bound

 Movement: L - T - R L - T - R L - T - R L - T - R

North Douglas II (Whitlow)

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Near Term Plus Project PM

Intersection #134: Americanos/Douglas

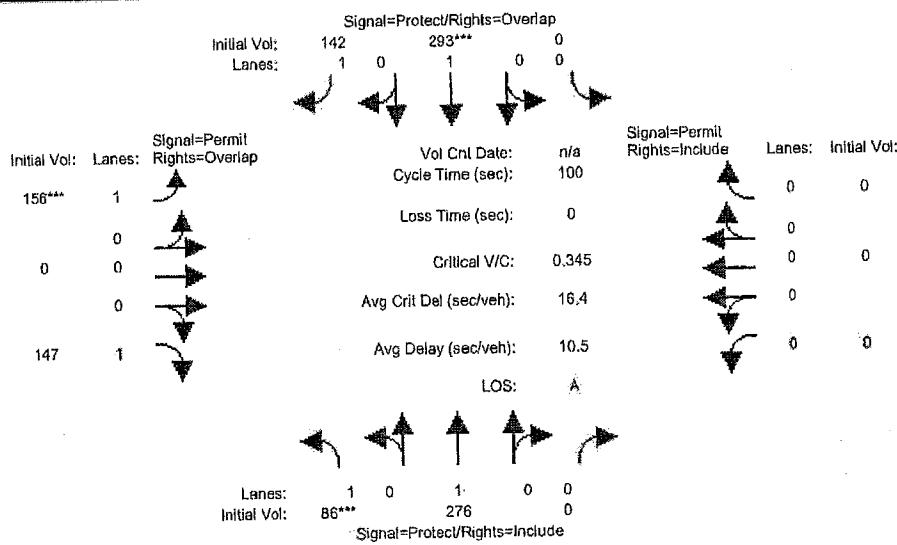


Approach:	North Bound			South Bound			East Bound			West Bound				
	L	-	T	-	R	L	-	T	-	R	L	-	T	-
Movement:														
<hr/>														
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<hr/>														
Volume Module:														
Base Vol:	0	0	0	12	0	257	445	291	0	0	216	10		
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Initial Bse:	0	0	0	12	0	257	445	291	0	0	216	10		
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0		
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0		
Initial Fut:	0	0	0	12	0	257	445	291	0	0	216	10		
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PHF Volume:	0	0	0	12	0	257	445	291	0	0	216	10		
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0		
Reduced Vol:	0	0	0	12	0	257	445	291	0	0	216	10		
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Final Vol.:	0	0	0	12	0	257	445	291	0	0	216	10		
<hr/>														
Saturation Flow Module:														
Sat/Lane:	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550		
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.96	0.04	
Final Sat.:	0	0	0	1550	0	1550	1550	1550	0	0	1481	69		
<hr/>														
Capacity Analysis Module:														
Vol/Sat:	0.00	0.00	0.00	0.01	0.00	0.17	0.29	0.19	0.00	0.00	0.15	0.15		
Crit Vol:	0			12			445				226			
Crit Moves:														

North Douglas II (Whitlow)

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Near Term Plus Project PM

Intersection #108: Grant Line Road/Douglas Road



Approach:	North Bound			South Bound			East Bound			West Bound					
	Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-
Min. Green:		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Volume Module:

Base Vol:	86	276	0	0	293	142	156	0	147	0	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	86	276	0	0	293	142	156	0	147	0	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	86	276	0	0	293	142	156	0	147	0	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	86	276	0	0	293	142	156	0	147	0	0	0	0
Reducut Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	86	276	0	0	293	142	156	0	147	0	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	86	276	0	0	293	142	156	0	147	0	0	0	0

Saturation Flow Module:

Sat/Lane:	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1550	1550	0	0	1550	1550	1550	0	1550	0	0	0

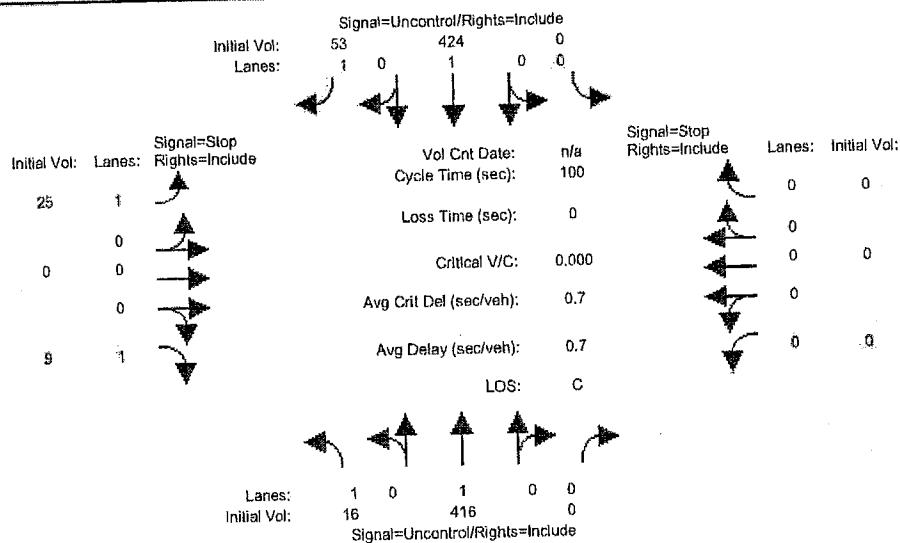
Capacity Analysis Module:

Vol/Sat:	0.06	0.18	0.00	0.00	0.19	0.09	0.10	0.00	0.09	0.00	0.00	0.00
Crit Vol:	86				293		156					0
Crit Moves:	****				****		****					

North Douglas II (Willow)

Level Of Service Computation Report
2000 HCM Unsigned (Future Volume Alternative)
Near Term Plus Project PM

Intersection #1267: Grant Line Road/Raymer Way extension



Approach:	North Bound			South Bound			East Bound			West Bound					
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
<hr/>															
Volume Module:															
Base Vol:	16	416	0	0	424	53	25	0	9	0	0	0	0	0	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	16	416	0	0	424	53	25	0	9	0	0	0	0	0	
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	16	416	0	0	424	53	25	0	9	0	0	0	0	0	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	16	416	0	0	424	53	25	0	9	0	0	0	0	0	
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Final Vol.:	16	416	0	0	424	53	25	0	9	0	0	0	0	0	
Critical Gap Module:															
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.4	xxxx	6.2	xxxxx	xxxx	xxxxx			
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	xxxx	3.3	xxxxx	xxxx	xxxxx			
<hr/>															
Capacity Module:															
Cnflct Vol:	477	xxxx	xxxxx	xxxx	xxxx	xxxxx	872	xxxx	424	xxxx	xxxx	xxxxx			
Potent Cap.:	1096	xxxx	xxxxx	xxxx	xxxx	xxxxx	324	xxxx	634	xxxx	xxxx	xxxxx			
Move Cap.:	1096	xxxx	xxxxx	xxxx	xxxx	xxxxx	320	xxxx	634	xxxx	xxxx	xxxxx			
Volume/Cap:	0.01	xxxx	xxxx	xxxx	xxxx	xxxx	0.08	xxxx	0.01	xxxx	xxxx	xxxxx			
<hr/>															
Level Of Service Module:															
2Way95thQ:	0.0	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.3	xxxx	0.0	xxxx	xxxx	xxxxx			
Control Del:	8.3	xxxx	xxxxx	xxxx	xxxx	xxxxx	17.2	xxxx	10.8	xxxxx	xxxx	xxxxx			
LOS by Move:	A	*	*	*	*	*	C	*	B	*	*	*			
Movement:	LT	-	LT	-	RT	LT	-	LT	-	RT	LT	-	LT	-	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx			
SharedQueue:	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx			
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx			
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*			
ApproachDel:	xxxxxx		xxxxxx				15.5		xxxxxx						
ApproachLOS:	*		*				C								

Peak Hour Delay Signal Warrant Report

Intersection #1267 Grant Line Road/Raymer Way extension

Future Volume Alternative: Peak Hour Warrant NOT Met

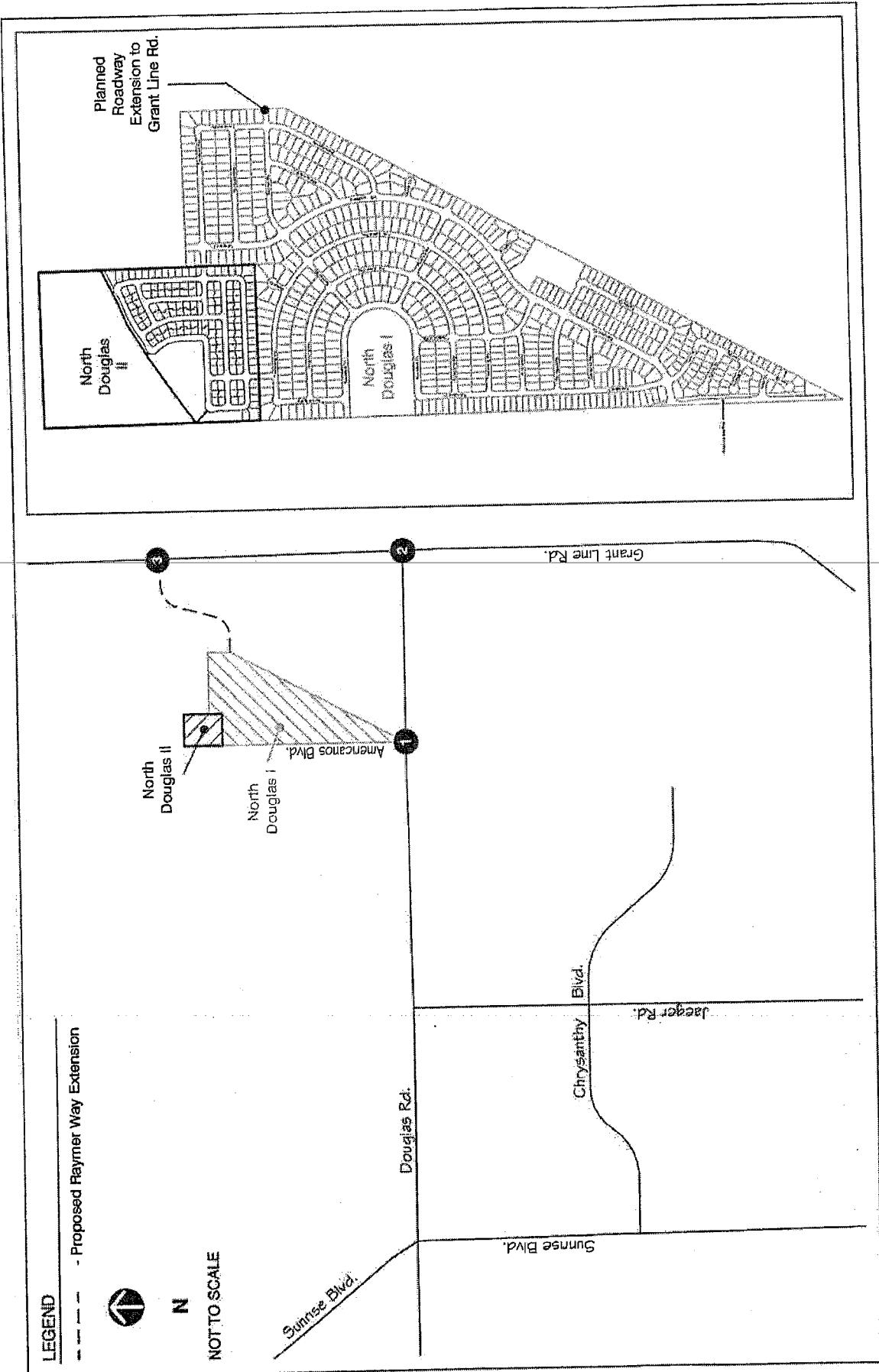
Approach:	North Bound			South Bound			East Bound			West Bound					
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R

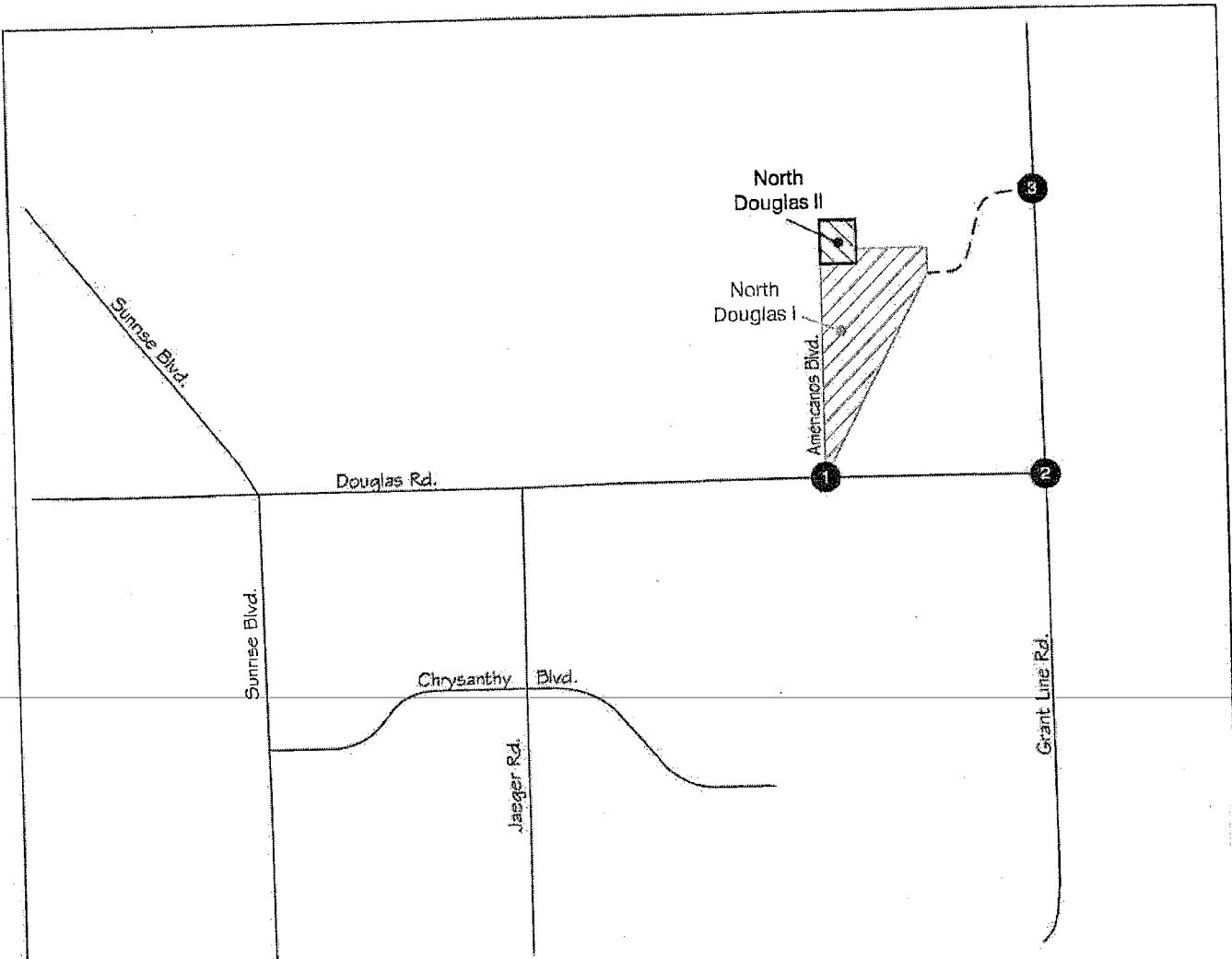
**NORTH DOUGLAS II (WHITLOW)
PROJECT LOCATION AND SITE PLAN**

FIGURE 1

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Jun 12, 2006 MJC
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LEGEND

- (1) - Turn Lane
- (2) - Study Intersection
- XX (YY) - AM (PM) Peak Hour Traffic Volume
- - - - Proposed Reymer Way Extension

1. Americanos Blvd./Douglas Rd.	2. Grant Line Rd./Douglas Rd.	3. Grant Line Rd./Reymer Wy.
316 (28) 15 (10) 107 (362) 200 (291)	3 (8) 556 (216) 532 (28) 235	13 (63) 871 (424) 30 (20) 12 (7) 3 (19) 477 (415)

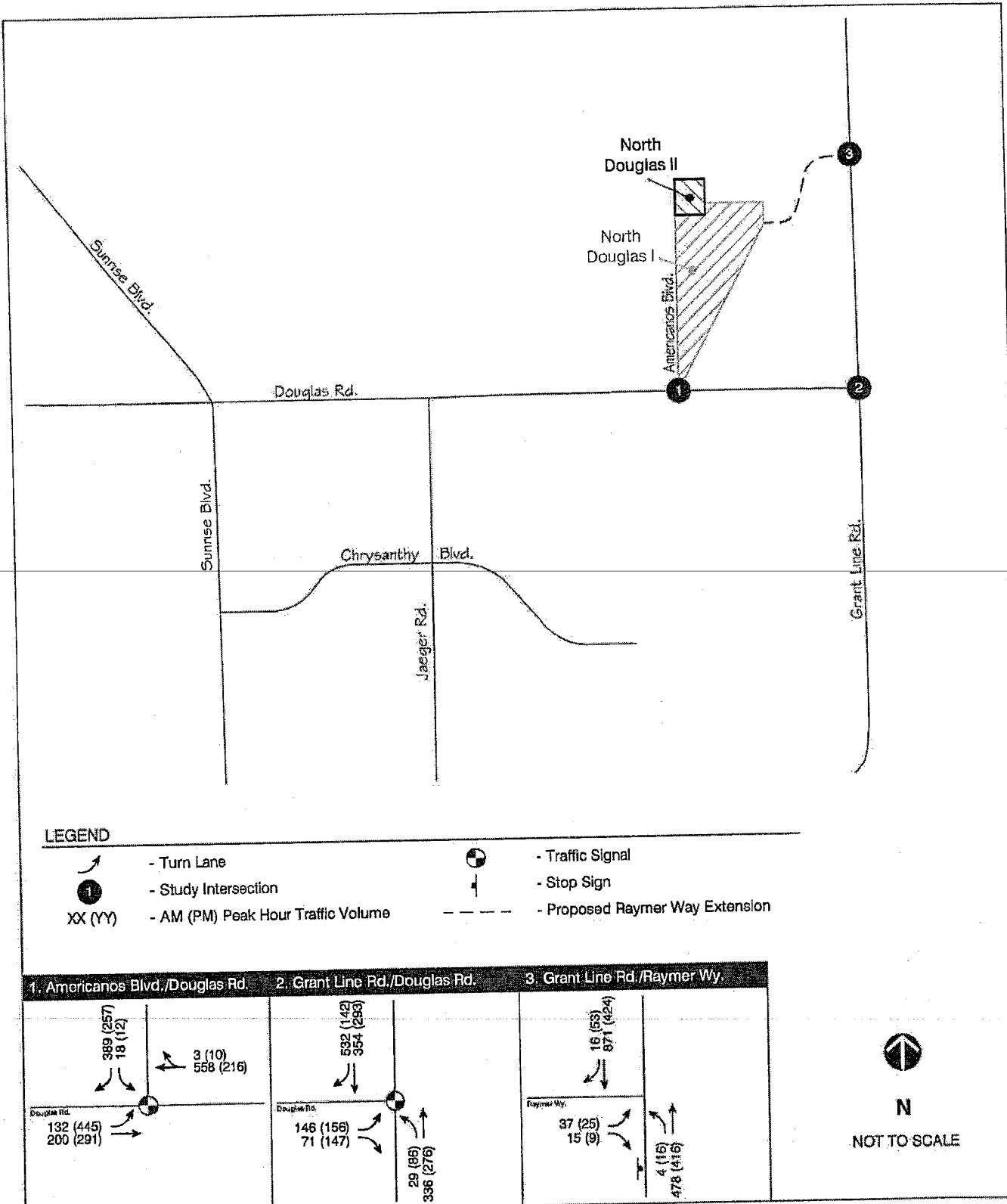


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NOT TO SCALE

**NORTH DOUGLAS II (WHITLOW)
PEAK HOUR TRAFFIC VOLUMES
AND LANE CONFIGURATIONS -
NEAR-TERM NO PROJECT CONDITIONS**

FIGURE 2



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**NORTH DOUGLAS II (WHITLOW)
PEAK HOUR TRAFFIC VOLUMES
AND LANE CONFIGURATIONS -
NEAR-TERM PLUS PROJECT CONDITIONS**

FIGURE 3

Traffic volumes from the North Douglas II project were added to the "Near-Term No Project" volumes to yield "Near-term Plus Project" conditions. Figure 3 shows the peak hour turning volumes and Table 3 shows the peak hour levels of service at each of the study intersections under "Near-Term Plus Project" conditions (see Attachment A for technical calculations). As shown, all study intersections operate at LOS D or better during both AM and PM peak hours with the addition of project traffic, which is acceptable according City of Rancho Cordova standards.

Study Intersection	Traffic Control	Near-Term No Project		Near-Term Plus Project	
		AM peak	PM peak	AM peak	PM peak
Douglas Road/Americanos Boulevard	Signalized	0.57 (A) ¹	0.39 (A)	0.61(B)	0.44 (A)
Douglas Road/Grant Line Road	Signalized	0.46 (A)	0.34 (A)	0.46 (A)	0.35 (A)
Grant Line Road/Raymer Way (extension)	Side-street Stop	31.4 (D) ²	16.8 (C)	33.0 (D)	17.2 (C)

NOTES:

¹ 0.57 (A) = Volume-to-Capacity Ratio (Level of Service)

² 31.4 (D) = Seconds of delay per vehicle for worst case movement (Level of Service)

Traffic operations at the study intersections were analyzed based on criteria contained in *Interim Materials on Highway Capacity - Circular 212* (Transportation Research Board, 1980) for signalized study intersections and the *Highway Capacity Manual 2000* (Transportation Research Board, 2000) for unsignalized intersections

Source: Fehr & Peers, 2006.

Based on our analysis, the North Douglas II subdivision will not trigger any project-specific traffic impacts at the study intersections that were analyzed. The assumed near-term lane configurations and traffic control would be adequate to accommodate the project traffic at these locations.

We hope this information is helpful. Please feel free to contact us with any questions.

Sincerely,

FEHR & PEERS



Jason Isaac
Senior Transportation Engineer



Jeffrey Clark, P.E.
Associate