NOTICE AND AGENDA

Notice is hereby given that the City Council of the City of Santaquin will hold a City Council Meeting on Wednesday, July 17, 2013, in the Council Chambers, 45 West 100 South, at 7:00 pm.

- 1. ROLL CALL
- 2. PLEDGE OF ALLEGIANCE
- 3. INVOCATION/INSPIRATIONAL THOUGHT
- 4. CONSENT AGENDA
 - a. Minutes
 - 1. July 03, 2013 Work Session Minutes
 - 2. July 03, 2013 Council Meeting Minutes
 - 3. July 10, 2013 Work Session Minutes
 - b. Bills
 - 1. \$1,749,181.47
- 5. FORUM, BID OPENINGS, AWARDS, AND APPOINTMENTS

Public Forum is held to a 30-minute maximum with each speaker given no more than 5 minutes each. If more than 6 Speakers, time will be adjusted accordingly to meet the 30 minute requirement

- 6. FORMAL PUBLIC HEARING
- 7. UNFINISHED BUSINESS
- 8. BUSINESS LICENSES
- 9. REPORTS OF OFFICERS, STAFF, BOARDS, AND COMMITTES
- 10. NEW BUSINESS
- 11. INTRODUCTIONS AND ADOPTION OF ORDINANCES AND RESOLUTIONS
 - a. Resolution 06-07-2013, "A Resolution adopting a development agreement with William James & JoAnn J Ferguson"
 - b. Resolution 07-01-2013, "A Resolution Declaring Surplus Property of Santaquin City"
 - c. Ordinance 07-03-2013, "An Ordinance affecting regulations for parking of Mobile Homes, Trailers, and Semi-Trailers on Public Streets"
- 12. PETITIONS AND COMMUNICATIONS
- 13. REPORTS BY MAYOR AND COUNCIL MEMBERS
 - a. Mayor DeGraffenried
 - b. Council Members
- **14. EXECUTIVE SESSION** (May be called to discuss the character, professional competence, or physical or mental health of an individual)
- **15. EXECUTIVE SESSION** (May be called to discuss the pending or reasonably imminent litigation, and/or purchase, exchange, or lease of real property)
- 16. CONVENE OF THE COMMUNITY DEVELOPMENT BOARD
- 17. ADJOURNMENT TO A REGULAR COUNCIL MEETING
- 18. ADJOURNMENT

If you are planning to attend this Public Meeting and, due to a disability, need assistance in understanding or participating in the meeting, please notify the City ten or more hours in advance and we will, within reason, provide what assistance may be required.

CERTIFICATE OF MAILING

The undersigned duly appointed City Recorder for the municipality of Santaquin City hereby certifies that a copy of the foregoing Notice and Agenda was e-mailed to the Payson Chronicle, Payson, UT, 84651.

Susan B. Farnsworth, City Recorder

POSTED:

CITY CENTER POST OFFICE ZIONS BANK

® Amendment to the agenda

MINUTES OF A COUNCIL MEETING HELD IN THE COUNCIL CHAMBERS JULY 17, 2013

The meeting was called to order by Mayor James E. DeGraffenried at 7:00 pm. Council Members attending: Keith Broadhead, Matthew Carr, James Linford, Kirk Hunsaker, and Rick Steele.

Others present: City Manager Ben Reeves, Director Dennis Howard, and Director Dennis Marker.

PLEDGE OF ALLEGIANCE

Director Marker led the Pledge of Allegiance.

INVOCATION/INSPIRATIONAL THOUGHT

City Manager Reeves Offered an Invocation.

CONSENT AGENDA

Minutes

July 03, 2013 – Work Session Minutes July 03, 2013 – Council Meeting Minutes July 10, 2013 – Work Session Minutes

Bills

\$1,749,181.47

Council Member Steele moved to approve the Consent Agenda. Council Member Carr seconded the motion. Council Members Broadhead, Carr, Linford, Hunsaker and Steele voted in the unanimous.

FORUM, BID OPENINGS, AWARDS, AND APPOINTMENTS Nothing

FORMAL PUBLIC HEARING

Nothing

UNFINISHED BUSINESS

Nothing

BUSINESS LICENSES

See the Work Session Minutes for a list of Business Licenses issued during the month of July.

REPORTS OF OFFICERS, STAFF, BOARDS, AND COMMITTES

Director Marker reported the Planning Commission reviewed 2 single lot splits during their last meeting. They will be holding a public hearing in August with regard to development design requirements.

Director Marker reported he received an updated with regard to US6/SR168/Highland Drive Alternatives Analysis drafted by J-U-B Engineers (see attachment "A" for the information). The information is in the Council drop box for their review.

NEW BUSINESS

Nothing

INTRODUCTIONS AND ADOPTION OF ORDINANCES AND RESOLUTIONS

Resolution 06-07-2013, "A Resolution adopting a development agreement with William James & JoAnn J Ferguson"

Council Member Linford moved to approve Resolution 06-07-2013, "A Resolution adopting a development agreement with William James & JoAnn J Ferguson". Council Member Hunsaker seconded the motion. Council Members Broadhead, Carr, Linford, Hunsaker and Steele voted in the unanimous through a roll call vote.

Resolution 07-01-2013, "A Resolution Declaring Surplus Property of Santaquin City" Council Member Steele moved to approve Resolution 07-01-2013, "A Resolution Declaring Surplus Property of Santaquin City". Council Member Linford seconded the motion. Council Members Broadhead, Carr, Linford, Hunsaker and Steele voted in the unanimous through a roll call vote.

Ordinance 07-03-2013, "An Ordinance affecting regulations for parking of Mobile Homes, Trailers, and Semi-Trailers on Public Streets"

Council Member Carr moved to approve Ordinance 07-03-2013, "An Ordinance affecting regulations for parking of Mobile Homes, Trailers, and Semi-Trailers on Public Streets" as written. Council Member Linford seconded the motion. Council Members Broadhead, Carr, Linford, and Hunsaker voted in the unanimous through a roll call vote. Council Member Steele voted against the motion.

PETITIONS AND COMMUNICATIONS

Nothing

REPORTS BY MAYOR AND COUNCIL MEMBERS

Mayor DeGraffenried

Mayor DeGraffenried deferred to Council Member Broadhead.

Council Members

Council Member Broadhead requested the City Manager draft different options as to how to make sure the revenue generated through the tax increase would actually be used for road repairs. There is a worry that future revenue would be used for different needs of the City. Council Members Broadhead and Carr, Mayor DeGraffenried and Director Eva will be working with City Manager Reeves to draft the options and have them available for the public hearing.

EXECUTIVE SESSION (May be called to discuss the character, professional competence, or physical or mental health of an individual)

Nothing

EXECUTIVE SESSION (May be called to discuss the pending or reasonably imminent litigation, and/or purchase, exchange, or lease of real property)

Nothing

CONVENE OF THE COMMUNITY DEVELOPMENT BOARD Nothing

ADJOURNMENT TO A REGULAR COUNCIL MEETING Nothing

ADJOURNMENT

At 7:34 pm Council Member Linford moved to approve. Council Member Hunsaker seconded the motion. Council Members Broadhead, Carr, Linford, Hunsaker and Steele voted in the unanimous.

Approved on August 7, 2013.

James E. DeGraffenried, Mayor

Susan B. Farnsworth, City Recorder









MEMORANDUM

DATE:

June 18, 2013

TO:

Doug Bassett, Project Manager, UDOT Region 3

CC:

Larry Montoya, P.E.; Brent Schvaneveldt, P.E.; Brian Phillips, P.E.; Lori Labrum, P.E.

P.T.O.E; Craig Friant, P.E.

FROM:

Vijay Kornala, P.E, P.T.O.E.

SUBJECT: U.S. 6/S.R. 198/Highland Drive-Alternatives Analysis Summary and Cost Estimates

J-U-B Engineers, Inc. (J-U-B) has been retained by UDOT to perform an alternatives analysis for the U.S. 6/S.R. 198/Highland Drive intersection in Santaquin, Utah. The subject intersection is located approximately 300 feet east from the I 15 northbound (NB) ramps and currenly operates as an all-way stop controlled intersection. The purpose of this technical memo is to evaluate the U.S. 6/S.R. 198/Highland Drive intersection operations.

J-U-B prepared the North Santaquin Interchange Study, dated November 14, 2011, which evaluated both short and long term improvements to the I 15 interchange ramps and the U.S. 6/S.R. 198/Highland Drive intersection. The short-term improvements identified a continuous lane on S.R. 198 for the southbound right-turn to the I 15 NB on-ramp. The long term improvement options identified for the intersection included a roundabout and a traffic signal in addition to the short term improvements. UDOT recently conducted a traffic signal warrant study for the U.S. 6/S.R. 198 intersection and determined that a traffic signal is warranted at that location based on 2013 traffic volumes.

J-U-B staff attended a meeting with UDOT staff on May 1, 2013 and reviewed the U.S. 6/S.R. 198/Highland Drive intersection alternatives that were evaluated in the North Santaquin Interchange Study. UDOT staff tasked J-U-B with the evaluation of two alternatives for the U.S. 6/S.R. 198/Highland Drive intersection for the 2013 and future 2030 conditions. The two alternatives are as follows:

- 1. Alternative 1 U.S. 6/S.R. 198/Highland Drive intersection with a traffic signal with the current lane configuration.
- 2. Alternative 2 U.S. 6/S.R. 198/Highland Drive intersection with a traffic signal plus a dedicated slip ramp from S.R. 198 southbound right-turn to I 15 northbound.

The VISSIM models calibrated for the North Santaguin Study were used for the analyses. This was done to evaluate the U.S. 6/S.R. 198/Highland Drive intersection operations and its interaction with the I 15 interchange ramps. The I 15 SB ramps are under signal control and the I 15 NB ramps operate with a stop condition on the NB off-ramp movement.







Weekday AM (7:00 - 9:00) and PM (4:00 - 6:00) peak hour interserction turning movement counts were conducted by L2 Data Collection on May 9, 2013 for the following intersections.

- U.S. 6/S.R. 198
- U.S. 6/I-15 NB Ramps
- U.S. 6/I-15 SB Ramps

The AM and PM peak hour corridor traffic volumes for U.S. 6 were developed by balancing the thru volumes from the individual turning movement counts. Heavy vehicle percentages were also obtained from the intersection turning movement counts.

2013 Base Conditions Analysis

The 2013 AM and PM traffic volumes and truck percentages were input into the calibrated VISSIM model to evaluate the two alternatives for the 2013 base conditions. The assumptions for the two alternatives and corresponding illustrations are as follows:

Alternative 1 - 2013 base conditions:

- A traffic signal is installed at U.S. 6/S.R. 198/Highland Drive without any changes to the intersection geometry.
- No improvements were assumed to the I-15 NB ramps.
- Traffic signal timing was optimized for the U.S. 6 corridor.



Alternative 2 - 2013 base conditions:

• A traffic signal is installed at U.S. 6/S.R. 198/Highland Drive with a dedicated slip ramp for the S.R. 198 southbound right-turn to the I 15 NB on-ramp, with an additional lane on the I 15 NB on-ramp.







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- No improvements were assumed for the I-15 NB off-ramp.
- The proportion of the S.R. 198 southbound right turn traffic volume destined for I 15 northbound was estimated to be 43% for AM and 12% for PM and used in the analysis.
- Traffic signal timing was optimized for the U.S. 6 corridor.



Level of Service (LOS) is a qualitative description of the level of congestion ranging from LOS A to LOS F. LOS A represents free-flowing traffic and LOS F represents gridlock. LOS is defined by the average delay per vehicle and is illustrated in the Level of Service Definitions Table.

Level of Service Definitions

Level of	Unsignalized Intersection	Signalized Intersection	
Service	(Delay in Seconds per Vehicle)	(Delay in Seconds per Vehicle)	
А	≤ 10	≤ 10	
В	> 10 and ≤ 15	> 10 and ≤ 20	
С	> 15 and ≤ 25	> 20 and ≤ 35	
D	> 25 and ≤ 35	> 35 and ≤ 55	
Е	> 35 and ≤ 50	> 55 and ≤ 80	
F >50		>80	

The minimum acceptable level of service for UDOT Region 3 roadways is LOS "D"

The LOS for the two alternatives for the 2013 base conditions is summarized below and the detailed results are included in Appendix - 1.







LOS Summary - 2013 Base Conditions

	200 Summary		2010 Dasc Conditions				
Desc	cription	on Volume		2013 AM Peak Hour (Signal only)		Peak Hour slip ramp)	
Mov	vement		Delay (sec)		Delay (sec)	LOS	
	NBL	122	30.7	С	31.5	С	
ابو	NBT	110	21.7	С	24.1	С	
ri	NBR	25	10.8	В	11.4	В	
뒫	SBL	0	0	Α	0	Α	
lar	SBT	43	22.3	С	23.7	С	
譚	SBR	138	11	В	11.3	В	
₩	EBL	252	11.3	В	9	Α	
13	EBT	66	7.7	А	6.1	Α	
U.S. 6 /S.R. 198/Highland Drive	EBR	59	3.4	А	2.5	Α	
5/5	WBL	12	11.5	В	9.9	Α	
S. (WBT	72	11.9	В	10.7	В	
\supset	WBR	1	10	Α	9.9	Α	
	OVERALL	900	14.9	В	14.6	В	

Description Movement		iption Volume		2013 PM Peak Hour (Signal only)		2013 PM Peak Hour (Signal+SB slip ramp	
		Volume	Delay (sec)	LOS	Delay (sec)	LOS	
	NBL	101	44.7	D	40.8	D	
eا	NBT	61	19.6	В	20.5	С	
S	NBR	11	7.3	Α	6.2	Α	
D D	SBL	1	24.1	С	11.5	В	
ar	SBT	92	27.5	С	25.1	С	
ig	SBR	267	16.6	В	14.9	В	
4/8	EBL	227	13.1	В	13.3	В	
19	EBT	81	11.2	В	10.5	В	
U.S. 6 /S.R. 198/Highland Drive	EBR	178	5.5	Α	5.2	Α	
5/5	WBL	15	15.8	В	13.8	В	
S.	WBT	82	14.1	В	14.8	В	
)	WBR	5	9.7	Α	12.3	В	
	OVERALL	1121	16.6	В	15.7	В	

As shown above, the intersection under the two alternatives is expected to operate at LOS "B" in the 2013 AM and PM peak hours. An addition of the S.R. 198 southbound right-turn to I 15 NB slip ramp does not provide a significant benefit to the intersection operations, if a signal is installed at the U.S. 6/S.R. 198/Highland Drive intersection. The overall delay would improve by 0.3 seconds in the AM peak hour and 0.9 seconds in the PM peak hour.

Future 2030 Conditions Analysis With 2013 Baseline Network

The 2013 traffic volumes were forecasted to 2030 conditions using a linear annual growth rate of 2% per year identified in the North Santaquin Interchange Study. The two alternatives for the U.S. 6/S.R. 198/Highland Drive were analyzed for the 2030 conditions. It was assumed that there would be no additional improvements to the I 15 interchange beyond the 2013 base condition







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alternatives. The LOS for the two alternatives for the 2030 conditions with 2013 baseline network is summarized below and the detailed results are included in Appendix -1.

LOS Summary - 2030 Conditions With 2013 Baseline Network

Description		Volume	The state of the s	2030 AM Peak Hour (Signal only)		Peak Hour slip ramp)
Mov	vement vement	Delay (sec)		LOS	Delay (sec)	LOS
	NBL	164	37.4	D	31.2	С
9	NBT	147	19.4	В	19.7	В
198/Highland Drive	NBR	32	11.2	В	11.5	В
둳	SBL	0	0	A		Α
<u>la</u>	SBT	58	20.5	С	20.5	С
蕇	SBR	185	12.6	В	12	В
₩	EBL	337	16.5	В	16	В
13	EBT	88	9	Α	9.1	Α
۲. ج	EBR	79	4.4	Α	4.5	Α
9/9	WBL	16	12.5	В	12.1	В
U.S. 6 /S.R.	WBT	96	14	В	13.2	В
	WBR	1	8.6	A	7.4	Α
	OVERALL	1203	17.5	В	16.7	В

Description Movement		iption 2030 PM Peak Hou (Signal only)			2030 PM Peak Hou (Signal+SB slip ramp	
		Volume	Delay (sec)		Delay (sec)	LOS
	NBL	136	44.4	D	41.6	D
198/Highland Drive	NBT	81	21.6	С	21.7	С
	NBR	15	9.2	А	8.5	Α
	SBL	1	21.4	С	20.1	С
<u> </u>	SBT	123	34.8	С	33.1	С
9	SBR	358	24.3	С	22.7	С
	EBL	304	18.1	В	17.4	В
	EBT	108	12.6	В	12.3	В
	EBR	238	6.9	А	7	Α
	WBL	20	23.7	С	22.3	С
0.3. 0/3.h.	WBT	111	23.8	С	23.5	С
o	WBR	7	12.3	В	13.6	В
	OVERALL	1502	21.6	С	20.5	С

As shown above, the intersection under the two alternatives is expected to operate at LOS "B" in the 2030 AM peak hour and LOS "C" in the PM peak hour. An addition of the S.R. 198 southbound right-turn to I 15 NB slip ramp does not provide a significant benefit to the intersection operations in the 2030 conditions, if a signal is installed at the U.S. 6/S.R. 198/Highland Drive intersection. With the dedicated slip ramp, the overall delay would improve by 0.8 seconds in the AM peak hour and 1.1 seconds in the PM peak hour.

Future 2030 Condition With Interchange Improvements

The two alternatives for the U.S. 6/S.R. 198/Highland Drive were also analyzed for the 2030 conditions with assumed improvements to the interchange ramps. The North Santaquin







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Interchange Study identified six long term alternatives for the I 15 interchange. Of the six alternatives, a partial clover leaf ramp for the U.S. 6 eastbound to I 15 northbound movement along with a traffic signal at the I 15 NB ramps provided optimal operational performance. Therefore, the partial clover leaf alternative was selected for the analysis of the 2030 conditions with the interchange improvements. The 2030 conditions with interchange improvements were used for the two alternatives and they are illustrated below.

Alternative 1 – 2030 conditions with Partial Clover at I 15 NB ramps



Alternative 2 – 2030 conditions with Partial Clover at I 15 NB ramps



The LOS for the two alternatives is summarized below and the detailed results are included in Appendix -1.







LOS Summary - 2030 Conditions with Partial Clover at I 15 NB Ramps

Desc	scription Volume		The state of the s	2030 AM Peak Hour (Signal only)		Peak Hour slip ramp)
Mov	vement		Delay (sec)	LOS	Delay (sec)	LOS
	NBL	164	42	D	32.5	С
او	NBT	147	20.9	С	20	В
Ę	NBR	32	13.2	В	11.3	В
198/Highland Drive	SBL	0	0	A	0	Α
lar	SBT	58	21.6	С	21	С
<u>==</u>	SBR	185	12.5	В	11.8	В
-₩	EBL	337	15.6	В	15.9	В
19	EBT	88	8.7	А	8.6	Α
~	EBR	79	4.6	А	4.5	Α
U.S. 6 /S.R.	WBL	16	11	В	11	В
S.	WBT	96	13.6	В	13	В
	WBR	1	9.9	Α	14.1	В
	OVERALL	1203	18.1	В	16.9	В

Desc	Description Volume		2030 PM Peak Hour (Signal only)		2030 PM Peak Hour (Signal+SB slip ramp)	
Mov	/ement	Volume	Delay (sec)		Delay (sec)	LOS
	NBL	136	44	D	42	D
9	NBT	81	18.8	В	18.6	В
ri.	NBR	15	7.2	Α	7.2	Α
198/Highland Drive	SBL	1	35.5	D	38.8	D
lar	SBT	123	44.5	D	42.1	D
<u>;</u>	SBR	358	31.5	С	29.5	С
4∕8	EBL	304	22.3	С	21.5	С
13	EBT	108	15.6	В	14.5	В
U.S. 6 /S.R.	EBR	238	9	Α	8.4	Α
9/2	WBL	20	18.7	В	18.1	В
S.	WBT	111	19.8	В	19.4	В
\supset	WBR	7	12.3	В	10.8	В
	OVERALL	1502	24.9	С	23.6	С

As shown above, the intersection under the two alternatives is expected to operate at LOS "B" in the 2030 AM peak hour and LOS "C" in the PM peak hour. An addition of the S.R. 198 southbound right-turn to I 15 NB slip ramp does not provide a significant benefit to the intersection operations in the 2030 conditions, if a signal is installed at the U.S. 6/S.R. 198/Highland Drive intersection. With the dedicated slip ramp, the overall delay would improve by 1.2 seconds in the AM peak hour and 1.3 seconds in the PM peak hour.

It is concluded that the slip ramp for the S.R. 198 southbound right-turn to I 15 northbound movement does not provide significant benefits in the 2013 and 2030 conditions if a signal is installed at the U.S. 6/S.R. 198/Highland Drive intersection. Therefore, the dedicated slip ramp is not recommended based on current and future traffic operations.







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The LOS and delay results were presented to UDOT Region 3 staff on May 29, 2013. Pursuant to the review of the results, UDOT staff asked J-U-B to estimate the conceptual costs for the following options.

- A traffic signal at the U.S. 6/S.R. 198/Highland Drive intersection
- A 112-foot diameter roundabout at the U.S. 6/S.R. 198/Highland Drive intersection
- A right turn slip ramp identified in "Figure 2.4" of the North Santaquin Interchange Study, which is illustrated below.



A summary of the conceptual cost for the three options is as follows and the detailed estimates are included in Appendix -2.

Traffic Sianal

		Traffic Signal
Item Description	Cost	Notes
Construction	\$188,000	Includes a 10% contingency for items not included
Contingency	\$17,000	9% of construction cost for Change Orders (CO)
Preconstruction Engineering	\$28,000	15% of construction cost
Construction Engineering	\$28,000	15% of construction cost
	\$261,000	
TOTAL	\$202,000	

112' Diameter Roundabout

	112' D	iameter Roundabout
Item Description	Cost	Notes
	\$639,000	Includes a 20% contingency for items not included
Construction	\$64,000	10% of construction cost (9% for CO, 1% for aesthetics)
Contingency		12% of construction cost
Preconstruction Engineering	\$77,000	10% of construction cost
Construction Engineering	\$64,000	10% of construction cost
TOTAL	\$844,000	
10		{







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Right Turn Slip Ramp

Right Turn Slip Ramp				
Item Description	Cost	Notes		
Construction	\$544,000	Includes a 10% contingency for items not included		
Contingency	\$54,000	10% of construction cost (9% for CO, 1% for aesthetics)		
Preconstruction Engineering	\$65,000	12% of construction cost		
Construction Engineering	\$54,000	10% of construction cost		
	\$717,000			
TOTAL				

For the roundabout option at the intersection, the North Santaquin Interchange Study assumed a 112' diameter inscribed circle based guidance from the NCHRP Report 672 for accommodating a WB-50 Design Vehicle. In the May 25, 2013 meeting, the diameters of the Bloomington Interchange roundabouts (St. George) were reviewed. The smaller roundabout had a diameter of approximately 150'. Therefore, for comparison purposes, we put together a cost estimate for a roundabout with a diameter of 150' as shown below.

150' Diameter Roundabout

150' Di	ameter Roundabout
Cost	Notes far items not included
\$793,000	Includes a 20% contingency for items not included
\$80,000	10% of construction cost (9% for CO, 1% for aesthetics)
\$95,000	12% of construction cost
\$79,000	10% of construction cost
\$1,047,000	
	\$793,000 \$80,000 \$95,000 \$79,000

Conclusions and Recommendations The U.S. 6/S.R. 198/Highland Drive intersection was evaluated under two alternatives: Alternative 1 with a traffic signal at the intersection; and Alternative 2 with a traffic signal and a slip ramp. The traffic operations of the intersection were evaluated for the 2013 base conditions and the the future 2030 condition with and without improvements to the I 15 interchange. The slip ramp does not provide significant operational benefits if a signal is installed at the U.S. 6/S.R. 198/Highland Drive intersection. The slip ramp is therefore not recommended.

J-U-B also estimated conceptual costs for three options, which are summarized as follows:

- Traffic signal at U.S. 6/S.R. 198/Highland Drive \$261,000.00
- 112 foot roundabout at U.S. 6/S.R. 198/Highland Drive \$844,000.00
- Slip ramp from S.R. 198 to I 15 \$717,000.00



J-U-B COMPANIES





APPENDIX - 1

			Del	ay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		23.5	18.2	0.2	60
		Through		0.3	0.3	0	0.7
	NB	Right		5.3	2.7	0.2	14.1
		Total		14.8	16.4	0	60
		Left		5.2	7.4	0.1	40.6
	rp.	Through		3.8	6.7	0	32.5
	EB	Total		3.9	6.7	0	40.6
Main St. 400 E.		Left		24.8	17.7	0.1	61.3
	SB	Through		26.1	17.7	0	58.1
		Right		6.8	3.4	0.1	17.2
		Total		20.4	17.3	0	61.3
		Left		7.5	9.3	0.2	33.6
		Through		3.5	6.7	0	32.5
		Right		1.9	2.4	0	14.9
		Total		3.4	6.5	0	33.6
	Total	Total	Α	5.6	10	0	61.3
	TOLAI	Through		5.2	7.5	0	58.9
	EB	Total		5.2	7.5	0	58.9
		Right		2.3	3.7	0.1	23.8
	SEB	Total		2.4	3.8	0.1	23.8
		Left		24.6	18.3	0	64.7
Main St. I-15 S. Ramp		Through		31.2	17.7	0.2	55.2
	SWB	Right		6.5	3.9	0.1	28.9
		Total		12.2	13.8	0	64.
		Left		16.6	15.7	0.2	62.
	WB	Through		4.7	7.4	0	30.
	VVD	Total		6.1	9.9	0	62.
	Total	1000	А	6.6	9.7	0	64.

			Del	ay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		20.5	19.6	4.5	166.1
	NB	Total		20.4	19.5	4.5	166.1
		Right		7.5	8.2	3.3	156
	NEB	Total		7.5	7.9	3.3	156
		Left		7.6	7.9	0.2	56.4
Main St. I-15 N. Ramp	EB	Through		1.9	3.8	0	62.5
		Total		4.5	6.5	0	62.5
	WB	Through		0.8	0.9	0	6
		Right		0.7	0.7	0	6.7
		Total		0.7	0.8	0	6.7
	Total		Α	3.8	6.8	0	166.1
	NB	Left	3.3%	30.7	21.4	0.2	114.6
		Through		21.7	17.5	0	70.4
		Right		10.8	12.9	0.1	56
		Total		24.7	20.2	0	114.6
		Left		11.3	12	0.1	95.7
		Through		7.7	10.8	0	60.8
	EB	Right		3.4	5	0	33.1
Main St. Highland		Total		9.3	11.3	0	95.7
Dr./UT-198		Through		22.3	18.7	0	65.5
D1./ 01-130	SB	Right		11	10.9	0.2	62.8
	35	Total		13.1	13.8	0	65.5
		Left		11.5	14.2	0	59.8
		Through		11.9	14	0	52.5
	WB	Right		10	14	0.2	41
		Total		11.9	14	0	59.8
	Total	1 July	В	14.9	16.4	0	114.0
				7.5	11.8	0	166.

		Volu	mes	
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)
		Left	10	3.9
		Through	1	0.4
	NB	Right	9	3.7
		Total	19	7.7
		Left	18	7.5
Main St. 400 E.	EB	Through	555	224.1
	75000000000000000000000000000000000000	Total	572	231.2
		Left	69	28.1
		Through	4	1.6
	SB	Right	22	9.1
		Total	95	38.3
		Left	5	2.4
	WB	Through	244	98.8
		Right	35	14.5
		Total	285	115.2
	Total		971	392.4
		Through	616	248.8
	EB	Total	616	248.8
		Right	17	7.2
	SEB	Total	17	7.2
		Left	53	21.9
Main St. I-15 S		Through	2	1
Ramp	SWB	Right	127	51.2
Kump		Total	182	73.6
		Left	28	11.7
	WB	Through	158	64
		Total	186	75.3
	Total		1001	404.5

		Volu	mes		
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)	
		Left	15	6.2	
	NB	Total	15	6.2	
	777722	Right	53	21.4	
	NEB	Total	53	21.4	
	EB	Left	328	132.6	
Main St. I-15		Through	346	140.1	
N. Ramp	1000 ACT	Total	674	272.4	
		Through	173	69.9	
	WB	Right	164	66.2	
		Total	337	136.1	
	Total		1078	435.8	
		Left	125	50.8	
	NB	Through	108	43.8	
		Right	26	10.5	
		Total	259	104.7	
		Left	272	110.1	
	75-068	Through	68	27.7	
	EB	Right	60	24.4	
Main St.		Total	400	161.9	
Highland		Through	42	16.9	
Dr./UT-198	SB	Right	138	55.8	
		Total	180	72.6	
		Left	10	4.5	
	0.1 (0.00.000)	Through	73	29.7	
	WB	Right	1	0.8	
		Total	85	34.3	
,	Total	1 5 55	924	373.3	
NETWOF			3974	1605.8	

			De	lay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		29.8	21.8	0.2	67.6
		Through		3.8	5.4	0.1	23.2
	NB	Right		4.7	2.6	0.2	16.4
		Total		10	14.8	0.1	67.6
		Left		10.4	11.2	0.2	60.3
		Through		3.4	6.6	0	37.2
Main St. 400 E.	EB	Right		1.7	2	0.1	7.2
		Total		3.8	7	0	60.3
		Left		28.6	20.8	0.1	71.9
		Through		27	19.8	0	65
	SB	Right		7.5	3.8	0.1	21.9
		Total		20.9	19.5	0	71.
		Left		5.5	8	0.2	38.
		Through		3.8	6.9	0	37.
	WB	Right		1.8	2.2	0	12.
		Total		3.6	6.7	0	38.
	Total		Α	5.2	9.9	0	71.
		Through		10.8	9.9	0	71.
	EB	Total		10.6	9.8	0	71.
		Right		3.5	6.2	0.1	38
	SEB	Total		3.5	6	0.1	38
		Left		15.9	12.1	0	55.
Main St. I-15 S. Ramp	SWB	Right		10.5	7.5	0.2	48.
		Total		12.1	9.4	0	55.
		Left		18.7	13.5	0.2	66
	WB	Through		8.8	9.3	0	40
		Total		10.5	10.8	0	66
	Total		В	11.2	10.1	0	71.

			De	lay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
	NB	Left		23.4	19.4	4.6	96.4
	IND	Total		22.7	19.7	4.6	96.4
	NEB	Right		8.5	5.3	3.4	35.3
	INEB	Total		8.5	5.7	3.4	35.3
Main C+ L1E N		Left		8.9	10	0.2	51.8
Main St. I-15 N.	EB	Through		1.5	1.9	0	27.4
Ramp		Total		3.4	6.1	0	51.8
	WB	Through		0.6	0.6	0	3.9
		Right		0.5	0.5	0	3.6
		Total		0.6	0.6	0	3.9
	Total		Α	3	6.6	0	96.4
		Left		44.7	36.4	0.2	255.5
	NID	Through		19.6	18.9	0	71.2
	NB	Right		7.3	10.3	0.1	52.5
		Total		32.6	32.3	0	255.5
		Left		13.1	12.9	0.1	77
	- FD	Through		11.2	13	0	56.6
	EB	Right		5.5	7.3	0	39.3
Main St.		Total		10.1	11.7	0	77
Highland Dr./UT-		Left		24.1	19.9	0.3	51.2
198	CD.	Through		27.5	19.4	0	85.3
	SB	Right		16.6	13.7	0	75.7
		Total		18.8	16	0	85.3
1.		Left		15.8	16.1	0.3	55.9
	1415	Through		14.1	16.5	0	59.1
	WB	Right		9.7	11.8	0.1	44.7
		Total		14	16.1	0	59.1
	Total		В	16.6	19.6	0	255.5
NETWORK T	TOTAL			9	13.3	0	255.5

		Volur	nes	
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)
		Left	8	2.9
		Through	6	1.8
	NB	Right	17	7.3
		Total	26	11.6
		Left	27	12.5
		Through	336	173.7
	EB	Right	784	5.9
		Total	431	191.4
Main St. 400 E.		Left	51	23.8
viaiii St. 400 E.		Through	9	3
	SB	Right	31	14
		Total	91	40.3
		Left	19	7.8
		Through	512	265.6
	WB	Right	827	28.3
		Total	678	301.4
	Total		1225	544.7
		Through	370	191.2
	EB	Total	430	191.2
		Right	1565	13.3
	SEB	Total	29	13.3
		Left	162	83.2
Main St. I-15 S. Ramp	. SWB	Right	334	173.3
	-	Total	576	256.1
		Left	58	28.7
	WB	Through	252	129
		Total	354	157.5
	Total		1390	617.7

		Volur	nes		
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)	
		Left	1561	10.8	
	NB	Total	24	10.8	
		Right	45	22	
	NEB	Total	49	22	
		Left	906	69.7	
/Iain St. I-15 N.	EB	Through	1167	205.1	
Ramp		Total	617	274.6	
		Through	286	147	
	WB	Right	844	36.9	
	1,44,007.00	Total	413	183.6	
	Total		1103	490.4	
	NB	Left	82	40.8	
		Through	49	25.5	
		Right	780	4.3	
		Total	158	70.2	
		Left	205	106.5	
	EB	Through	79	38.3	
	EB	Right	1698	82.8	
Main St.		Total	511	227.3	
Highland Dr./U7	Γ-	Left	6	0.6	
198	SB	Through	70	35.8	
	SD	Right	213	109.5	
		Total	327	145.5	
		Left	14	6.3	
	NA/D	Through	67	33.3	
	WB	Right	4	2	
		Total	93	41.2	
	Total		1089	484.1	
		1	4807	2136.8	

			De	elay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		29	20.8	0.1	71.4
		Through		1.9	4.3	0	10.8
	NB	Right		4.3	2.3	0.5	11.5
		Total		17.2	19.7	0	71.4
		Left		5.6	8.7	0.2	38.9
	EB	Through		3.7	6.7	0	38.4
	5 550 4555	Total		3.6	6.7	0	38.9
Main St. 400 E.		Left		30.2	20.9	0.1	70.5
	Through		30.1	22.1	0	63.4	
	SB	Right		6.8	3.3	0.1	17.1
		Total		24	20.7	0	70.5
		Left		9.2	11.5	0.2	47.7
		Through		4.2	7	0	35.9
	WB	Right		2.2	2.3	0	11.8
		Total		4	6.7	0	47.7
	Total		Α	6.1	11.4	0	71.4
		Through		4.6	6.3	0	70.6
	EB	Total		4.8	6.5	0	70.6
	200	Right		2.1	3.3	0.1	20.3
	SEB	Total		2.3	3.9	0.1	20.3
		Left		29.8	21.4	0	74.2
Main St. I-15 S.		Through		34.9	20.8	3	66.5
Ramp	SWB	Right		6.5	3.8	0.1	25.1
Namp		Total		13.6	16.2	0	74.2
		Left		13.9	15.1	0.2	71.5
	WB	Through		3.2	6.7	0	28.2
		Total		4.7	9.1	0	71.5
	Total		Α	6.2	10	0	74.2

			D	elay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
	115	Left		19.1	16.8	4.5	112
	NB	Total		19.6	18.2	4.5	112
	NED	Right		6.9	4.6	3.3	46.1
NE	NEB	Total		7	4.6	3.3	46.1
		Left		7.7	7.4	0.2	66.4
Main St. I-15	EB	Through		1.8	2.7	0	33.7
N. Ramp		Total		4.5	6.1	0	66.4
WB		Through		0.6	0.8	0	6.8
	WB	Right		0.6	0.7	0	6.2
	0.000.000	Total		0.6	0.8	0	6.8
	Total		Α	3.9	6.2	0	112
		Left		31.5	22.2	0.1	139.
	ND	Through		24.1	19.5	0	90.1
	NB	Right		11.4	13.3	0.1	67.3
		Total		25.8	21	0	139.
		Left		9	10.1	0.1	54.8
		Through		6.1	9.8	0	39.2
	EB	Right		2.5	4.1	0	32.8
Main St.		Total		7.6	9.6	0	54.8
Highland		Through		23.7	19.8	0	70.2
Dr./UT-198	SB	Right		11.3	11.6	0.2	70
		Total		14.8	15.8	0	70.2
		Left		9.9	12.7	0	46.9
		Through		10.7	13.6	0	56
	WB	Right		9.9	13.2	0.2	48.
		Total		11	13.7	0	56
	Total		В	14.6	17.3	0	139
NETWOR	V TOTAL			7.4	12.3	0	139

		Volu	mes		
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)	
		Left	9	3.8	
		Through	1	0.4	
	NB	Right	9	3.7	
		Total	19	7.7	
		Left	18	7.4	
	EB	Through	555	224.2	
		Total	572	231.2	
		Left	69	27.8	
Main St. 400 E.		Through	4	1.6	
	SB	Right	22	9.1	
		Total	94	38	
		Left	5	2.2	
	WB	Through	243	98.4	
		Right	36	14.8	
		Total	284	114.9	
	Total		969	391.7	
		Through	619	250.2	
	EB	Total	619	250.2	
		Right	17	7.3	
	SEB	Total	17	7.3	
		Left	53	21.6	
Main St. I-15 S	S	Through	2	1	
Ramp	SWB	Right	126	51.1	
		Total	181	73.2	
		Left	27	11.4	
	WB	Through	158	64.2	
	15.0000	Total	186	75.2	
	Total		1004	405.5	

		Volu	mes		
ntersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)	
		Left	15	6.2	
	NB	Total	15	6.2	
	NEB EB	Right	53	21.5	
		Total	53	21.5	
		Left	327	132.2	
Main St. I-15		Through	347	140.5	
N. Ramp		Total	674	272.4	
		Through	171	69.3	
	WB	Right	105	42.4	
		Total	276	111.5	
	Total		1018	411.3	
		Left	125	50.8	
		Through	108	43.8	
	NB	Right	26	10.5	
		Total	259	104.7	
		Left	273	110.5	
		Through	69	27.9	
	EB	Right	60	24.4	
Main St.		Total	402	162.5	
Highland		Through	42	16.9	
Dr./UT-198	SB	Right	78	31.4	
		Total	119	48.3	
		Left	10	4.5	
		Through	73	29.5	
	WB	Right	1	0.8	
		Total	85	34.1	
	Total		864	349.3	
				4.55.7	
NETWO	RK TOTAL		3855	1557.7	

			De	lay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		30.1	21.2	0.3	65.3
		Through		3.8	6.4	0	28.2
	NB	Right		5	2.7	0.5	20.3
		Total		10	14.7	0	65.3
		Left		9.9	10.6	0.2	54.5
Main St. 400 E.	EB	Through		3.3	6.5	0	36.8
		Right		1.7	2	0	8.2
		Total		3.7	6.9	0	54.5
		Left		29	20.9	0.1	71.1
	Aug. 27.00	Through		25.4	19.9	0	65.3
	SB	Right		7.5	3.8	0.1	20.6
		Total		21.1	19.7	0	71.1
		Left		5.6	8.4	0.2	35.4
		Through		3.3	6.6	0	39.2
	WB	Right		1.6	2	0	11.7
		Total		3.3	6.4	0	39.2
	Total		Α	4.9	9.8	0	71.1
		Through		11.5	9.9	0	54.5
	EB	Total		11.4	9.9	0	54.5
		Right		3.2	5.2	0.1	28.3
	SEB	Total		3.1	5.1	0.1	28.
		Left		15.8	12.2	0.1	59.3
Main St. I-15 S. Ramp	SWB	Right		10.3	7.4	0.3	49.4
		Total		12	9.5	0.1	59.
		Left		17.8	14.3	0.3	82.
	WB	Through		9.4	9.7	0	40.
		Total		10.9	11.1	0	82.
	Total		В	11.4	10.1	0	82.

			De	lay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		27.2	26.6	4.5	144.1
	NB	Total		25.9	25.4	4.5	144.1
		Right		8.1	5.1	3.4	36.3
	NEB	Total		8.2	5.3	3.4	36.3
		Left		10.7	12.5	0.2	89.2
/Iain St. I-15 N.	EB	Through		1.5	1.9	0	19.1
Ramp		Total		3.8	7.4	0	89.2
	WB	Through		0.5	0.6	0	4.6
		Right		0.4	0.5	0	4.6
		Total		0.5	0.6	0	4.6
	Total		Α	3.3	8.2	0	144
	10.0	Left		40.8	30.5	0.2	163
	NB	Through		20.5	19	0	64.
		Right		6.2	8	0.1	46.
		Total		31.1	28.1	0	163
	EB	Left		13.3	12.4	0.1	84.
		Through		10.5	12.3	0	47.
		Right		5.2	6.6	0.1	37.
		Total		9.8	11.2	0	84.
∕Iain St. Highland		Left		11.5	12	0.3	30.
Dr./UT-198		Through		25.1	18.4	0	90
	SB	Right		14.9	13.1	0.3	65.
		Total		17.6	15.6	0	90
		Left		13.8	14.5	0.2	54
		Through		14.8	17	0	57
	WB	Right		12.3	13.6	0.2	47
		Total		13.9	16.3	0	57
	Total		В	15.7	18.1	0	163
NETWORK				8.9	12.9	0	163

		Volu	mes		
			Average	Standard Deviation	
ntersection	Approach	Movement	Volume Served	(vehicle)	
tersection	Дрргосси		(vehicle)		
		Left	7	2.9	
		Through	4	1.8	
	NB	Right	18	7.3	
		Total	29	11.6	
		Left	30	12.4	
		Through	430	173.6	
	EB	Right	14	5.9	
		Total	473	191.2	
400 5		Left	59	23.9	
lain St. 400 E.		Through	7	3	
	SB	Right	34	14	
		Total	100	40.4	
	1	Left	19	7.8	
		Through	660	266.6	
	WB	Right	70	28.5	
		Total	749	302.5	
	Total		1351	545.7	
	Total	Through	473	191.2	
	EB	Total	473	191.2	
		Right	32	13.3	
	SEB	Total	32	13.3	
		Left	205	83.1	
Main St. I-15	S. _{SWB}	Right	428	173.2	
	3000	Total	633	255.9	
Ramp		Left	71	28.7	
	WB	Throug	h 321	129.6	
	VVD	Total	391	158.1	
1	Tota		1530	618.2	

		Volu	mes	
ntersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)
		Left	26	10.8
	NB	Total	26	10.8
		Right	54	21.9
	NEB	Total	54	21.9
		Left	173	69.8
Main St. I-15	EB		508	205.6
N. Ramp	ED		681	275.2
			366	147.8
	WB		56	22.6
	VVD		421	170.3
	Total	Total	1182	477.6
	TOLAI	Left	101	40.9
			63	25.5
	NB		10	
			174	N 99000-10
			263	MANAGEMENT SECTION AND ADDRESS OF THE PARTY
			95	
	EB	A UNIVERSITY OF THE PARTY OF TH	205	
			562	
Main St.			1	
Highland	,		88	NAME OF TAXABLE PARTY.
Dr./UT-198	SB		238	10.8 10.8 10.8 21.9 21.9 69.8 205.6 275.2 147.8 22.6 170.3 477.6 40.9 25.5 4.2 70.2 106.4 38.4 82.8 227.3 0.6 35.8 96.1 132.1 6.3 33.4 2 41.3 470.7
			Through 508 Total 681 Through 366 Right 56 Total 421 1182 Left 101 Through 63 Right 10 Total 174 Left 263 Through 95 Right 205 Total 562 Left 1 Through 88 Right 238 Total 327 Left 15 Through 83	
		The second second second	15	
			83	
	WB	Right		
		Total	102	
	Tota		1165	470.7
	Tota	•		
	ORK TOTAL		5227	2112

			Del	ay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
				22.7	17.3	0.6	59
		Left		2.5	3	0.4	7.6
	NB	Through		5.6	3.9	0.1	20.4
	, ND	Right		14.7	15.7	0.1	59
		Total		9.1	9.9	0.2	35
		Left		5.1	7.5	0	39.9
	EB	Through		5.1	7.5	0	39.9
Main St. 400 E.		Total		25.4	17.6	0.1	61.3
	SB	Left		24.9	20	0	56.2
		Through		6.6	3.7	0.1	19.5
		Right		20.7	17.5	0	61.3
		Total		11.5	13.2	0.2	58.4
	WB	Left		4.7	7.8	0	40.1
		Through		2.1	2.3	0	11.5
		Right		4.4	7.6	0	58.4
		Total		6.7	10.4	0	61.3
	Total		Α	11.6	13.1	0	114.6
	EB	Through		11.9	13.3	0	114.6
		Total		7.5	12.4	0.1	84.1
	SEB	Right		7.6	12.3	0.1	84.1
	JLD	Total		23.9	18.1	0	68.3
		Left		25.9	19.3	0.6	53.1
Main St. I-15 S	. SWB	Through		6.6	4.4	0.1	27.9
Ramp	3,,,,	Right	-	12	13.4	0	68.3
27		Total		23.7	10.4	0.3	94.6
		Left		3.9	7.4	0	35.8
	WB	Through		6.8	12	0	94.6
		Total	В		12.1	0	114.

			Del	ay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
	NB	Left		54.8	55.3	4.5	255.9
	NB	Total		54.6	55.1	4.5	255.9
		Right		13.9	21.6	3.4	169.1
	NEB	Total		13.8	20.7	3.4	169.1
		Left		12.6	11.6	0.3	76.9
Main St. I-15 N.	EB	Through		4	6.1	0	65.3
Ramp		Total		8	9.8	0	76.9
	WB	Through		0.9	1	0	7.7
		Right		0.8	0.8	0	5.2
		Total		0.8	0.9	0	7.7
	Total	NAS-SALSA AND	А	6.8	13.2	0	255.9
		Left		37.4	31.6	0.2	228.9
	NB	Through		19.4	16.1	0	85.6
		Right		11.2	12.4	0.1	56.5
		Total		26.6	25.5	0	228.
8		Left		16.5	14.4	0.1	70.4
		Through		9	11.8	0	48.7
	EB	Right		4.4	6.2	0	32.1
Main St. Highland		Total		13.5	13.9	0	70.4
Dr./UT-198		Through		20.5	16.6	0	65.7
D1./ 01 130	SB	Right		12.6	10.7	0.1	55.5
		Total		14.1	12.6	0	65.7
		Left		12.5	13.3	0	49.9
	120.000	Through		14	14.1	0	51.8
	WB	Right		8.6	8.9	0.2	24.3
		Total		13.9	14.1	0	51.8
	Total		В	17.5	19.2	0	228.
NETWORK				10.3	14.9	0	255.

		Volun	nes	
			Average	Standard Deviation
Intersection	Approach	Movement	Volume Served (vehicle)	(vehicle)
		Left	12	5.1
		Through	1	0.4
	NB	Right	12	5
		Total	25	10.1
		Left	10	4.2
	EB	Through	757	305.9
		Total	767	310
Лain St. 400 E.		Left	94	38
		Through	3	1.5
	SB	Right	30	12.2
		Total	127	51.3
	WB	Left	8	3.4
		Through	318	128.5
		Right	50	20.6
		Total	375	151.8
	Total		1295	523.1
		Through	840	339.5
	EB	Total	840	339.5
		Right	24	9.8
	SEB	Total	24	9.8
		Left	73	29.7
Main St I-15 S		Through	2	0.9
Main St. I-15 S. Ramp	· SWB	Right	168	68.1
Namp		Total	243	98.3
		Left	38	15.7
	WB	Through	207	83.9
		Total	245	99.3
	Total		1353	546.6

Volumes								
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)				
	NB	Left	20	8.1				
	ND	Total	20	8.1				
	NEB	Right	71	28.6				
	NEB	Total	71	28.6				
N4-:- C+ 1.15 N		Left	441	178.3				
Main St. I-15 N. Ramp	EB	Through	477	192.9				
		Total	918	371				
	WB	Through	228	92.2				
		Right	222	89.7				
		Total	450	181.7				
	Total		1458	589.1				
	NB	Left	169	68.5				
		Through	149	60.4				
		Right	32	13				
		Total	350	141.6				
		Left	366	148.1				
	ED	Through	95	38.5				
	EB	Right	87	35.1				
Main St. Highland		Total	547	221.4				
Dr./UT-198		Through	56	22.7				
	SB	Right	186	75				
		Total	242	97.6				
		Left	15	6				
	WB	Through	96	39				
	VVD	Right	1	0.5				
		Total	112.1	45.3				
	Total		1251.3	505.7				
NETWORK 1	TOTAL		5356.1	2164.3				

Delay									
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)		
	V.	Left		40.2	27.5	0.2	83.9		
		Through		4.1	6.4	0	25.2		
	NB	Right		5.1	3.1	0.1	20.8		
		Total		12	18.9	0	83.9		
		Left		7.2	9.7	0.2	58.3		
	10000000	Through		3.8	7.5	0	42.4		
	EB	Right		1.7	2.2	0	13.2		
Main St. 400 E.		Total		4	7.6	0	58.3		
		Left		38.6	26.5	0.1	93.		
		Through		32.4	27.3	0	89.		
	SB	Right		8.2	4.5	0.1	28.		
		Total		27.2	25.6	0	93.		
	WB	Left		2.6	3.5	0.2	20.		
		Through		3.6	6.8	0	42		
		Right		1.7	2.1	0	13.		
		Total		3.4	6.6	0	42		
	Total		Α	5.7	12.1	0	93.		
		Through		15.8	16.6	0	91.		
	EB	Total		15.7	16.5	0	91.		
		Right		6.8	9.9	0.2	78.		
	SEB	Total		7.2	10.2	0.2	78		
		Left		35.5	22.5	0.3	105		
Main St. I-15 S.	SWB	Right		29.3	17.7	0.1	93		
Ramp	3112	Total		30.3	19.6	0.1	105		
		Left		48.3	38.7	0.2	219		
	WB	Through		12.7	13.2	0	66		
	***	Total		18.7	23.8	0	219		
	Total		С	23.2	21.4	0	219		

			De	elay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
	ND	Left		87.7	118	4.4	586.3
	NB	Total		82.2	111.5	4.4	586.3
	NED	Right		47	79.1	3.6	510.2
	NEB	Total		41.5	73.4	3.6	510.2
		Left		14.7	17.9	0.3	113.2
Main St. I-15 N.	EB	Through		4.6	7.2	0	59.5
Ramp		Total		6.8	11.2	0	113.2
	WB	Through		1.1	1.4	0	17.1
		Right		0.5	0.6	0	3.7
		Total		1	1.3	0	17.1
	Total		Α	8.4	30.6	0	586.3
	NB	Left		44.4	29.2	0.2	216.0
		Through		21.6	21.6	0	86.3
		Right		9.2	13.5	0.1	64.8
		Total		33.1	28.2	0	216.
	EB	Left		18.1	16.9	0.1	78.9
		Through		12.6	16.1	0	64.8
		Right		6.9	9.9	0	58.6
Main St.		Total		13.1	15.4	0	78.9
Highland Dr./UT-		Left		21.4	17.2	5.5	50.7
198		Through		34.8	24.2	0	124.
	SB	Right		24.3	20.4	0.2	122.
		Total		26.3	21.7	0	124.
		Left		23.7	24.9	0.2	146.
	=	Through		23.8	22.3	0	78.7
	WB	Right		12.3	15.4	0.2	65.4
		Total		22.9	22.3	0	146.
	Total		С	21.6	22.2	0	216.

		Volun	nes	
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)
		Left	9	3.7
		Through	7	2.1
	NB	Right	23	10.3
		Total	35	15.7
		Left	25	11.5
	EB	Through	364	188.7
		Right	786	7.3
		Total	466	207.1
Main St. 400 E.		Left	67	31.7
Widin Sci. 100 Li	100000000	Through	10	3.3
	SB	Right	40	18.8
		Total	120	53.4
		Left	25	10.9
		Through	684	356.4
	WB	Right	847	38.7
		Total	913	405.8
	Total		1534	681.9
		Through	425	220.2
	EB	Total	495	220.2
		Right	1567	14.2
	SEB	Total	31	14.2
		Left	211	108.7
Main St. I-15 S. Ramp	SWB	Right	445	231.5
		Total	765	340
		Left	76	38.2
	WB	Through	338	174.5
	145.45	Total	478	212.4
	Total		1769	786.4

		Volur	mes	
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)
	20.00	Left	1570	15.2
	NB	Total	34	15.2
		Right	57	28.3
	NEB	Total	63	28.3
		Left	925	79.4
Main St. I-15 N.	EB	Through	1252	250
Ramp		Total	740	329.2
		Through	381	196.8
	WB	Right	869	49.8
		Total	554	246.4
	Total		1391	618.5
	NB	Left	111	55.7
		Through	63	32.4
		Right	784	6.3
		Total	211	94
		Left	254	132.7
	- FD	Through	97	47.6
	EB	Right	1730	99.3
Main St.		Total	628	279.3
Highland Dr./UT	-	Left	5	0.4
198		Through	96	49.5
	SB	Right	281	145.2
		Total	438	194.8
		Left	17	7.8
	NA/P	Through	91	45.8
	WB	Right	6	2.8
		Total	125	55.8
	Total		1403	623.7
NETWORK	TOTAL		6098	2710.4

			De	elay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		22.8	17.3	0.6	58.7
		Through		1.8	2.9	0.3	7.6
	NB	Right		5.7	4.2	0.1	20.4
		Total		14.8	15.8	0.1	58.7
		Left		8.2	9.4	0.2	32.9
	EB	Through		5.2	7.6	0	40.7
		Total		5.2	7.6	0	40.7
Main St. 400 E.	And the state of t	Left		25	17.5	0.2	61.5
	SB	Through		25.1	20	0	56.4
		Right		6.5	3.8	0.1	19.5
		Total		20.5	17.4	0	61.5
	WB	Left		11	13.9	0.3	67.4
		Through		4.7	7.9	0	39.7
		Right		2	2.3	0	10.9
		Total		4.5	7.7	0	67.4
	Total		Α	6.7	10.4	0	67.4
		Through		11.9	13.8	0	111.
	EB	Total	A	12.2	14	0	111.
	A CONTRACTOR AND A POPULATION OF BUILDING STATE	Right	e a partir de la companya de la comp	7.1	11	0.1	78.2
	SEB	Total		8.1	13.2	0.1	78.2
	and any or a second to see the second to be a second	Left		23.8	17.9	0	65.6
Main St. I-15 S.		Through		26.2	19.4	0.6	53.3
Ramp	SWB	Right	Electronic de la contraction d	6.7	4.6	0.1	28.
		Total		12.1	13.3	0	65.
		Left		25.1	18.7	0.2	126
	WB	Through		4.2	7.6	0	32.
	,,,,	Total	Language Control of the Control of t	7.3	12.7	0	126
	Total		В	11	13.6	0	126

			De	lay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		47.3	48.1	4.4	240.4
	NB	Total		47.1	47.9	4.4	240.4
		Right		12.4	17.3	3.3	152.9
	NEB	Total		12.2	16.4	3.3	152.9
		Left		11	10.2	0.2	68.1
Main St. I-15 N.	EB	Through		3.7	5.4	0	53.4
Ramp	ED	Total		7.1	8.7	0	68.1
		Through		0.7	0.9	0	7.3
	WB	Right		0.6	0.7	0	5.6
	VVD	Total		0.7	0.8	0	7.3
	Total	Total	Α	6.3	11.6	0	240.4
	IOtal	Left		31.2	25.2	0.2	187
	NB	Through		19.7	16.2	0	73.9
		Right		11.5	12.5	0.1	56.6
		Total		24	21.2	0	187
	The state of the second st	Left		16	14.1	0.1	89.9
		Through	**************************************	9.1	11.9	0	52.8
	EB	Right	1	4.5	6.4	0	32.5
Main St.		Total	.	13	13.5	0	89.9
Highland Dr./UT		Through		20.5	17	0	61.4
198	SB	Right	·	12	11.3	0.3	61.3
	36	Total		14.5	14	0	61.4
	and the second s	Left		12.1	13.1	0	49
		Through		13.2	14	0	46.8
	WB	Right		7.4	7.3	0.2	24.4
		Total		13.2	14	0	49
	Total	1001	В	16.7	17.4	0	187
	TOTAL				The second secon		
NETWORE	A TOTAL		-	10	14	0	240.

		Volur	nes	
Intersection	Approach	Approach Movement Volume Served (vehicle)		Standard Deviation (vehicle)
		Left	12	5.1
	*15	Through	1	0.4
	NB	Right	12	5
Main St. 400 E.		Total	25	10.1
	Annual account - Anthony of the County	Left	10	4.2
	EB	Through	757	305.8
		Total	767	309.9
		Left	94	38
	c n	Through	3	1.5
	SB	Right	30	12.2
		Total	127	51.3
		Left	8	3.3
		Through	319	129
	WB	Right	46	18.9
		Total	373	150.7
	Total		1292	522
	T	Through	841	339.9
	EB	Total	841	339.9
		Right	24	9.9
	SEB	Total	24	9.9
		Left	73	29.7
Main St. I-15 S.	014/5	Through	2	0.9
Ramp	SWB	Right	168	68.1
		Total	243	98.3
	Control of the Contro	Left	39	16
	WB	Through	204	82.6
		Total	243	98.3
	Total	V Farmer Ly (Apply) 111 a collected at a collected	1351	546

		Volur	nes	
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)
		Left	20	8.1
	NB	Total	20	8.1
		Right	71	28.6
Main St. I-15 N.	NEB	Total	71	28.6
	EB	Left	443	178.9
		Through	477	193.1
Ramp		Total	920	371.8
		Through	226	91.4
	WB	Right	142	57.4
		Total	368	148.6
	Total		1378	556.7
		Left	169	68.3
	NB	Through	149	60.3
		Right	32	13
		Total	350	141.3
	Francisco	Left	366	148.1
		Through	95	38.6
	EB	Right	87	35.1
Main St.		Total	548	221.5
Highland Dr./UT	· Indiana de la company de la	Through	56	22.7
198	SB	Right	104	42
		Total	160	64.5
		Left	15	6
		Through	96	39
	WB	Right	1	0.5
		Total	112	45.3
	Total		1169	472.5
NETWORK	/ TOTAL		5189	2096.9

2030 Signal @ UT-198 lmp_No Clover PM.xlsx Delay (600-4200)

			De	elay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		39.9	27.8	0.2	83.9
		Through		9.9	16.2	0	78.9
	NB	Right		5.4	5.3	0.1	71
		Total		12.9	19.6	0	83.9
	parameter - entry of the entry	Left		14.8	15.1	0.2	83.9
		Through		3.6	7.1	0	40.3
	EB	Right		1.6	2	0	9.9
Main St. 400 E.		Total		4.3	8.3	0	83.9
	Account Market Property Control	Left		38.8	26.6	0.1	89.4
	SB	Through		33.8	27.8	0	89.6
		Right		8.2	4.5	0.1	27.9
		Total	A DECEMBER OF THE PARTY OF THE	27.4	25.7	0	89.6
		Left	A COMPANY OF THE PARTY OF THE P	6.5	9.2	0.2	40.5
		Through		3.4	6.6	0	41.7
	WB	Right		1.6	2	0	13.1
		Total		3.4	6.5	0	41.7
	Total		Α	5.7	12.3	0	89.6
		Through		16.2	19.4	0	191.8
	EB	Total		15.9	18.9	0	191.8
		Right		7.1	13.9	0.1	154.
	SEB	Total		7.4	13.7	0.1	154.
	Completed Section 2015 Section	Left	and the large of	36.9	23.7	0.3	226
Main St. I-15 S.	SWB	Right		30.7	18.3	0.2	96.4
Ramp	3440	Total		31.7	20.3	0.2	226
		Left		46.7	37.2	0.3	236.
	WB	Through	-	13	13.5	0	110.
	140	Total	20 30 00 00 00 00 00 00 00 00 00 00 00 00	18.7	23.2	0	236.
	Total		С	23.9	22.5	0	236.

			De	lay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		99	126.1	4.5	671.9
	NB	Total	James and the same of places of the same	91.4	120.1	4.5	671.9
-	***************************************	Right		51.6	93.5	3.6	490.8
	NEB	Total		45.4	86.9	3.6	490.8
		Left		17.6	26.1	0.2	262.6
Main St. I-15 N.	EB			3.9	6.6	0	181.2
Ramp	FB	Through Total		6.9	14.5	0	262.6
		Through		1.2	3.3	0	65
	VA/D	with the property of the control of	and the second second	0.5	1	0	17.6
	WB	Right Total	Control of the Control of the Control of	1.1	3	0	65
		IOIAI	Α	9.3	35.5	0	671.9
	Total	Left		41.6	27.6	0.2	159.1
	NB	The second secon		21.7	21.7	0	86.3
		Through		8.5	12.2	0.1	52.2
		Right Total		31.5	26.8	0	159.1
		Left		17.4	16.3	0.1	79.2
				12.3	15.8	0	60.8
	EB	Through		7	9.9	0.1	59.5
		Right Total		12.7	14.9	0	79.2
Main St.	printerpolicy of incorporate containing in the	Left		20.1	16.5	2	46.5
Highland Dr./UT	-	Through	-	33.1	23.8	0	107.9
198	SB			22.7	19.7	0.3	106.2
		Right Total		25.1	21.4	0	107.9
	.,	Left	-	22.3	22.2	0.2	81.4
		And the second s		23.5	22.8	0	134.6
	WB	Through	-	13.6	18.2	0.2	64.3
	500 min	Right		22.4	22.3	0	134.6
	y 42 h 200 (400 400 2 2 2 2 4 4 4 4 5 5 5 1 4 1 7	Total	С	20.5	21.4	0	159.
	Total			20.5			
	TOTAL			15.2	25.2	0	671.

		Volur	nes		
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)	
		Left	9	3.7	
		Through	5	2.1	
	NB	Right	25	10.3	
		Total	39	15.7	
		Left	28	11.7	
	ЕВ	Through	466	188.4	
		Right	18	7.3	
		Total	512	206.9	
Main St. 400 E.		Left	78	31.7	
		Through	8	3.3	
	SB	Right	46	18.9	
		Total	132	53.4	
	The second of the second and the sec	Left	27	10.9	
	10000000	Through	887	358.6	
	WB	Right	96	38.8	
		Total	1010	408	
	Total	content of the same of the sam	1693	684	
		Through	544	219.8	
	EB	Total	544	219.8	
	Automotive and the second second second	Right	35	14.3	
	SEB	Total	35	14.3	
		Left	269	108.7	
Main St. I-15 S. Ramp	SWB	Right	573	231.5	
		Total	841	339.9	
		Left	97	39.4	
	WB	Through	438	177.1	
		Total	535	216.1	
	Total		1954	789.6	

		Volum	ies	
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)
		Left	38	15.5
	NB	Total	38	15.5
		Right	70	28.5
	NEB	Total	70	28.5
		Left	197	79.6
√ain St. I-15 N.	EB	Through	617	249.6
Ramp	LD	Total	814	329
	Access to the contrast of the co	Through	494	199.8
	WB	Right	72	29.2
	****	Total	566	228.8
	Total		1488	601.2
	Total	Left	137	55.4
		Through	80	32.4
	NB	Right	15	6.3
		Total	232	93.8
		Left	328	132.6
		Through	117	47.6
	EB	Right	245	99.1
Marin Ct		Total	690	279
Main St.	т.	Left	1	0.4
Highland Dr./U	1-	Through	122	49.5
198	SB	Right	316	127.8
		Total	439	177.3
	or pro-transfer or common or one of the forest	Left	19	7.8
		Through	113	45.8
	WB	Right	6	2.8
		Total	138	55.8
	Tota		1499	605.7
	Tota	•		
The second section of the second second	RK TOTAL		6633	2680.4

			De	lay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		22.8	17.3	0.6	58.8
		Through		5.5	4.5	0.3	11.1
	NB	Right		5.6	4.1	0.1	20.4
		Total		14.9	15.7	0.1	58.8
		Left		7.8	9.2	0.2	34.2
	EB	Through		5.1	7.6	0	40.7
		Total		5.1	7.6	0	40.7
Main St. 400 E.		Left		25	17.5	0.1	61.5
	c n	Through		25	19.9	0	56.2
	SB	Right		6.8	4.1	0.1	24.7
		Total		20.5	17.3	0	61.5
		Left		12	15.2	0.2	71.4
	WB	Through		4.6	7.9	0	41.4
		Right		1.9	2.3	0	12.5
		Total		4.3	7.7	0	71.4
	Total	0.000	Α	6.6	10.4	0	71.4
		Through		4.5	8.1	0	35.5
	EB	Total		4.4	8	0	35.5
		Right		1.3	2.8	0.1	23.9
	SEB	Total		1.4	2.8	0.1	23.9
		Left		22.7	18	0.1	65.7
Main St. I-15 S.	01115	Through		25.4	19.7	0.6	53.6
Ramp	SWB	Right		5.7	3.5	0.1	24.2
Nump		Total		11	13.2	0.1	65.7
		Left		4	7.2	0.3	30.5
	WB	Through		4.5	8.3	0	34
		Total		4.3	8	0	34
	Total		Α	5.6	9.5	0	65.7

			Del	ay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		24.5	12.9	0.1	45.2
	NB	Right		6	5.1	0	73.2
		Total		9.8	10.4	0	73.2
		Through		6	9.2	0	75.4
Main St. I-15 N.	EB	Total		6.4	10.4	0	75.4
Ramp	WB	Through		4	6.2	0	40.1
		Right		1	1.9	0	31.2
		Total		2.4	4.7	0	40.1
	Total		Α	4.8	8.1	0	75.4
		Left		42	43.8	0.2	322.
		Through		20.9	21.3	0	219.
	NB	Right		13.2	16.5	0.1	118.
		Total		29.1	33.8	0	322.
		Left		15.6	15	0.1	116.
		Through		8.7	11.9	0	54.3
	EB	Right		4.6	6.8	0	41.6
Main St. Highland		Total		13	14.4	0	116.
Dr./UT-198		Through		21.6	17	0	66.
D1., 01. 100	SB	Right		12.5	10.6	0.1	57.
		Total		14.2	12.8	0	66.
		Left		11	12.4	0	44.
	39,0-010-00-	Through		13.6	13.9	0	56.
	WB	Right		9.9	6.8	0.4	24.
		Total		13.3	13.7	0	56.
	Total		В	18.1	23.6	0	322
NETWORK 1				8.9	15.4	0	322

		Volur	nes	
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)
		Left	12	5.1
	NID	Through	4	0.4
	NB	Right	13	5
		Total	23	10.1
		Left	11	4.2
	EB	Through	587	305.8
		Total	697	309.9
		Left	79	38
Main St. 400 E.	CD	Through	6	1.5
	SB	Right	27	12.2
		Total	115	51.3
	WB	Left	9	2.9
		Through	250	128.3
		Right	46	20.8
		Total	341	151.7
	Total		1176	522.9
		Through	650	337.8
	EB	Total	760	337.8
	050	Right	1558	9.8
	SEB	Total	21	9.8
		Left	61	29.7
Main St. I-15 S.	611/5	Through	6	0.9
Ramp	SWB	Right	134	68.1
		Total	221	98.3
		Left	33	15.7
	WB	Through	165	83.9
		Total	223	99.2
	Total		1225	544.7

		Volun	nes		
			Average	Standard Deviation	
Intersection	Approach	Movement	Volume Served	(vehicle)	
			(vehicle)		
		Left	22	8.1	
	NB	Right	58	28.6	
		Total	82	36.4	
		Through	366	189	
Main St. I-15 N.	EB	Total	425	189	
Ramp	WB	Through	182	92.3	
		Right	1712	89.7	
		Total	409	181.8	
	Total		916	407.1	
		Left	135	68.6	
		Through	116	60.3	
	NB	Right	29	13	
		Total	319	141.6	
		Left	278	145.1	
	5000000	Through	78	38.9	
	EB	Right	67	34.6	
Main St.		Total	490	218.2	
Highland Dr./UT	-	Through	45	22.7	
198	SB	Right	147	75	
		Total	219	97.5	
		Left	14	6	
	Production for states	Through	78	39	
	WB	Right	2	0.5	
		Total	102	45.3	
	Total		1130	502.5	
	1000				
NETWORK	TOTAL		4448	1977.2	

Delay									
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)		
		Left		34.7	21.2	0.3	68.9		
		Through		7.9	12.6	0	56.2		
	NB	Right		4.9	2.9	0.1	20.3		
		Total		11	15.4	0	68.9		
		Left		12.4	13.5	0.2	57.2		
	100	Through		4.1	7.3	0	38.3		
	EB	Right		1.7	2.2	0	9.2		
		Total		4.6	8.1	0	57.2		
Main St. 400 E.	SB	Left		29.8	22.1	0.1	75.4		
		Through		31.4	22.7	0	67.7		
		Right		8.7	4.9	0.1	27.6		
		Total		21.7	20.3	0	75.4		
		Left		7.3	10.4	0.2	57.2		
		Through		3.5	6.8	0	38.		
	WB	Right		2	2.4	0	18.		
		Total	100000000000000000000000000000000000000	3.6	7	0	57.		
	Total		Α	5.4	10.6	0	75.		
		Through		4.9	16.6	0	467		
	EB	Total		5	15.8	0	467		
		Right		1.1	1.7	0.1	12.		
	SEB	Total		1.1	1.7	0.1	12.		
		Left		37.5	27.4	0.2	520		
Main St. I-15 S. Ramp	SWB	Right		23.8	20.1	0.4	380		
]	Total		27.5	23	0.2	520		
		Left		7.8	10.1	0.2	31.		
	WB	Through		8.8	11.1	0	33		
		Total		8.6	10.9	0	33		
	Total		В	15.9	21.6	0	520		

			De	elay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		28.6	21.4	0.2	76.6
	NB	Right		7.6	6.5	0	49.7
		Total		15.1	17.3	0	76.6
		Through		9.6	26.8	0	606.6
Main St. I-15 N.	EB	Total		9.6	25.2	0	606.6
Ramp		Through		5	8.4	0	42.7
	WB	Right		1.8	4	0	32.8
		Total		4.4	8	0	42.7
	Total		Α	7.6	19.8	0	606.6
		Left		44	29.2	0.2	156.7
		Through		18.8	18.9	0	86.6
	NB	Right		7.2	10.3	0.1	50.7
		Total		31.6	27.8	0	156.7
		Left		22.3	19	0	126.2
		Through		15.6	16.8	0	58.6
	EB	Right		9	11.9	0	53.5
Main St.		Total		16.6	17.4	0	126.3
Highland Dr./UT-		Left		35.5	34.2	0.3	85.5
198		Through		44.5	29.3	0	142.
	SB	Right		31.5	26.4	0.2	139.4
		Total		33.6	27.3	0	142.
		Left		18.7	17.5	0.3	68.3
		Through		19.8	19.2	0	85.2
	WB	Right		12.3	13.7	0.2	62.1
		Total		19.4	18.8	0	85.2
	Total		С	24.9	24.6	0	156.
NETWORK	TOTAL			13.6	21.2	0	606.

		Volu	mes	
Intersection	Approach	Movement	Average Volume Served (Vehicle)	Standard Deviation (Vehicle)
		Left	8	3.6
		Through	5	2.1
	NB	Right	25	10.3
		Total	39	15.6
		Left	28	11.6
		Through	465	188
	EB	Right	18	7.3
		Total	511	206.4
1ain St. 400 E.		Left	78	31.6
viaiii 3t. 400 L.	SB	Through	8	3.3
		Right	46	18.9
		Total	132	53.3
		Left	27	11
		Through	867	351
	WB	Right	94	38
		Total	987	399.8
	Total		1668	674.7
		Through	536	216.6
	EB	Total	536	216.6
		Right	34	14.1
	SEB	Total	34	14.1
		Left	261	105.5
Main St. I-15 S	SWB	Right	563	228.1
Ramp		Total	824	333.5
		Left	93	37.8
	WB	Through	420	170.3
		Total	513	207.9
į.	Total		1907	771.7
	, 5 tu	Left	35	14.3
	NB	Right	68	27.9
		Total	103	41.8
	Websel (Through	600	242.6
Main St. I-15	EB	Total	600	242.6
N. Ramp		Through	477	193.3
	WB	Right	118	48.1
	""	Total	594	241.1
	Total		1297	525.4

		Volu	mes	
Intersection	Approach	Movement	Average Volume Served (Vehicle)	Standard Deviation (Vehicle)
		Left	133	54.3
	ND	Through	79	32.1
	NB	Right	15	6.2
		Total	227	92.2
	EB	Left	319	129
		Through	116	46.9
		Right	231	94
Main St.		Total	665	269.5
Highland		Left	1	0.4
Dr./UT-198	SB	Through	118	48.3
	30	Right	348	141.4
		Total	467	189.7
		Left	18	7.6
	WB	Through	113	45.7
	VVD	Right	6	2.8
		Total	137	55.3
	Total		1495	606.4
NETWORK	TOTAL		6368	2577.7

Delay									
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)		
		Left		22.8	17.3	0.5	58.7		
		Through		5.5	4.4	0.3	11.1		
	NB	Right		5.6	4.1	0.1	20.3		
		Total		14.9	15.7	0.1	58.7		
		Left		7.3	9	0.2	34.2		
	EB	Through		5.1	7.6	0	40.6		
		Total		5.1	7.6	0	40.6		
	SB	Left		25	17.5	0.1	61.5		
Main St. 400 E.		Through		25	19.9	0	56.2		
		Right		6.7	4.1	0.1	19.9		
		Total		20.5	17.3	0	61.5		
	WB	Left		12	15.9	0.2	71.4		
		Through		4.6	7.6	0	39.2		
		Right		1.9	2.2	0	10.2		
		Total		4.3	7.6	0	71.4		
	Total		Α	6.6	10.4	0	71.4		
		Through		4.5	8.1	0	35.2		
	EB	Total		4.4	7.9	0	35.2		
		Right		1.3	3	0.1	23.8		
	SEB	Total		1.3	3	0.1	23.		
		Left		22.7	18	0.1	65.		
Main St. I-15 S.		Through		25.4	19.7	0.6	53.		
Ramp	SWB	Right		5.7	3.5	0.1	24.		
		Total		11	13.1	0.1	65.		
		Left		4.5	7.9	0.3	33.		
	WB	Through		4.2	8	0	34.		
	1	Total		4.3	8	0	34.		
	Total		Α	5.6	9.5	0	65.		

			De	elay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		22.5	11.9	0	46
	NB	Right		5.9	5.4	0	88.2
		Total		9.4	9.9	0	88.2
NA '- C- LAE N	ED.	Through		6.3	10.1	0	95.3
Main St. I-15 N.	EB	Total		6.5	10.6	0	95.3
Ramp		Through		4.3	6.6	0	42.5
	WB	Right		1	1.8	0	17.5
		Total		2.8	5.3	0	42.5
	Total		Α	5.3	8.8	0	95.3
ı	NB	Left		32.5	28.1	0.1	220.9
		Through		20	17.7	0	137.1
		Right		11.3	12.8	0.1	56.6
		Total		24.6	23.2	0	220.9
		Left		15.9	15	0.1	99.3
	- FD	Through		8.6	11.9	0	47.6
	EB	Right		4.5	6.8	0	46.3
Main St.		Total		13	14.4	0	99.3
Highland Dr./UT-		Through		21	17.1	0	63.7
198	SB	Right		11.8	10.4	0.8	54.9
		Total		14.5	13.7	0	63.7
		Left		11	12	0	43.9
	WD	Through		13	13.8	0	53.6
	WB	Right		14.1	11.9	0.2	35.5
		Total		13	13.7	0	53.6
	Total		В	16.9	18.6	0	220.9
NETWORK	TOTAL			8.6	13.3	0	220.9

		Volur	nes	
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)
		Left	12	5.1
	ND	Through	1	0.4
	NB	Right	12	5
		Total	25	10.1
	EB	Left	10	4.2
		Through	757	305.8
		Total	767	309.9
N4-: C+ 400 F		Left	94	38
Main St. 400 E.	SB	Through	3	1.5
	3D	Right	30	12.2
		Total	127	51.2
	WB	Left	7	2.9
		Through	320	129.6
	VVD	Right	48	19.4
		Total	375	151.7
	Total		1294	522.9
	EB	Through	836	337.7
	ED	Total	836	337.7
	SEB	Right	24	9.8
	SED	Total	24	9.8
		Left	73	29.7
Main St. I-15 S.	SWB	Through	2	0.9
Ramp	SVVB	Right	168	68.1
		Total	243	98.3
		Left	39	15.9
	WB	Through	207	83.7
		Total	245	99.2
	Total		1348	544.6

		Volun	nes	
Intersection	Approach	Movement	Average Volume Served (vehicle)	Standard Deviation (vehicle)
		Left	20	8.2
	NB	Right	71	28.6
		Total	90	36.5
		Through	467	189
Main St. I-15 N.	EB	Total	467	189
Ramp	WB	Through	228	92.2
		Right	142	57.6
		Total	370	149.6
	Total		928	374.9
	NB	Left	169	68.4
		Through	149	60.3
		Right	32	13
		Total	350	141.4
		Left	356	144
		Through	97	39.3
	EB	Right	85	34.6
Main St. Highland		Total	538	217.6
Dr./UT-198		Through	56	22.7
	SB	Right	106	43
		Total	162	65.5
		Left	15	6
	NA/D	Through	96	38.9
	WB	Right	1	0.5
		Total	112	45.3
	Total		1162	469.6
NETWORK '	ΤΟΤΔΙ		4731	1912

Delay										
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)			
		Left		35.1	20.9	0.3	68.9			
	NB	Through		8.9	11.7	0	47.4			
	IND	Right		5.1	3.1	0.1	22.4			
		Total		11.3	15.4	0	68.9			
		Left		5.1	7.2	0.1	51.3			
	EB	Through		4.4	7.6	0	41.8			
	EB	Right		1.8	2.4	0	11.1			
		Total		4.4	7.6	0	51.3			
Main St. 400 E.	SB	Left		30.5	22	0.1	77.2			
		Through		32	22.6	0	67.9			
		Right		8.8	5.1	0.1	28			
		Total		22.2	20.4	0	77.2			
	WB	Left		2.6	3.5	0.2	18.2			
		Through		3.6	7.1	0	38.7			
	WD	Right		1.9	2.9	0	31.8			
		Total		3.5	6.8	0	38.7			
	Total		Α	5.4	10.6	0	77.2			
	EB	Through		4.2	8.1	0	33.9			
	ED	Total		4.5	8.7	0	33.9			
	SEB	Right		0.8	1.2	0.1	11.6			
	JED	Total		0.9	1.7	0.1	11.6			
Main C+ 11E C		Left		37.3	23.6	0.2	109.			
Main St. I-15 S. Ramp	SWB	Right		23.7	15.8	0.4	78.3			
		Total		27.4	19.6	0.2	109.			
		Left		9.1	10.4	0.2	31.5			
	WB	Through		9.6	11.4	0	33.9			
		Total		9.4	11.3	0	33.9			
	Total		В	15.8	18.3	0	109.			

			De	elay			
Intersection	Approach	Movement	LOS	Average (s)	Standard Deviation (s)	Min (s)	Max (s)
		Left		29.2	21.4	0.2	76.5
	NB	Right		7.5	6.9	0	60.6
		Total		15.2	17.4	0	76.5
Main St. I-15 N.	EB	Through		7.8	9.9	0	106.7
	EB	Total		7.8	9.7	0	106.7
Ramp		Through		4.7	8.3	0	42.9
	WB	Right		1.6	3.7	0.1	30.4
		Total		4.4	8	0	42.9
	Total		Α	6.8	10.3	0	106.7
	NB	Left		42	27.9	0.2	169.2
		Through		18.6	18.9	0	86.6
		Right		7.2	10.4	0.1	50.6
		Total		30.5	26.6	0	169.2
		Left		21.5	18.3	0	87.1
		Through		14.5	16	0	56.1
	EB	Right		8.4	11.1	0	54.9
Ania Cr Ilinbiand		Total		15.8	16.7	0	87.1
Main St. Highland	WAR-0023-0	Left		38.8	33.9	0.2	85.5
Dr./UT-198	SB	Through		42.1	28.2	0	141.6
	28	Right		29.5	25.2	0.7	139
		Total		31.8	26.1	0	141.6
		Left		18.1	17.2	0.3	64.4
	MD	Through		19.4	19.2	0	110.6
	WB	Right		10.8	11.8	0.2	46.1
		Total		18.9	18.8	0	110.6
	Total		С	23.6	23.5	0	169.2
NETWORK T	OTAL			13.1	18.2	0	169.2

2030 Signal @ UT-198 Imp PM.xlsx Volumes (600-4200)

Volumes						
Intersection	Approach	Movement	Average Volume Served (Vehicle)	Standard Deviation (Vehicle)		
		Left	8	3.6		
	NB	Through	5	2.1		
	IND	Right	25	10.3		
		Total	39	15.6		
		Left	28	11.5		
	EB	Through	465	187.9		
Main St. 400 E.	EB	Right	18	7.5		
		Total	511	206.4		
	SB	Left	78	31.6		
		Through	8	3.3		
		Right	46	18.9		
		Total	132	53.3		
	WB	Left	27	11.2		
		Through	887	358.5		
		Right	98	39.5		
		Total	1012	408.9		
	Total		1693	684.1		
	EB	Through	540	218.2		
	ED	Total	540	218.2		
	SEB	Right	35	14.2		
	JED	Total	35	14.2		
Main St. I-15 S.		Left	266	107.8		
Ramp	SWB	Right	571	230.8		
Namp		Total	837	338.4		
		Left	97	39.3		
	WB	Through	437	176.6		
		Total	533	215.5		
	Total		1945	785.9		

	, Le la Le la			
Intersection	Approach	Movement	Average Volume Served (Vehicle)	Standard Deviation (Vehicle)
		Left	36	14.8
	NB	Right	69	28.1
		Total	105	42.5
Main St. I-15	EB	Through	610	246.7
	Ramp	Total	610	246.7
и. катр		Through	496	200.3
		Right	72	29.2
		Total	568	229.4
	Total		1283	518.5
	NB	Left	138	55.8
		Through	81	33
		Right	15	6.3
		Total	235	94.8
		Left	322	130.2
	ED.	Through	118	47.8
	EB	Right	240	97
Main St.		Total	680	274.8
Highland		Left	1	0.4
Dr./UT-198	SB	Through	123	49.6
	28	Right	317	128.3
		Total	441	178
		Left	19	7.7
	WB	Through	113	45.7
	VVB	Right	6	2.8
		Total	138	55.6
	Total		1492	603.1



J·U·B ENGINEERS, INC.

J-U-B COMPANIES





APPENDIX - 2

PIN ---- PROJECT # ---- PROJECT NAME: SR-168 & US-6, Signalized Intersection Cost Estimate - Concept Level

Prepared By J-U-B Engineers, Inc. Date	6/17/2013		
Approximate Route Reference Post (BEGIN) =		(END) =	
Accumulated Mileage (BEGIN) =		(END) =	
Project Length =	0.000	miles	ft
Current FY Year (July-June) =	2013		
Assumed Construction FY Year =	2015		
Construction Items Inflation Factor =	1.17	2 y	rs for inflation
Assumed Yearly Inflation for Engineering Services (PE and CE) (%/yr) =	3.0%		
Assumed Yearly Inflation for Urban Residential Right of Way (%/yr) =	1.0%		
Assumed Yearly Inflation for Urban Commercial Right of Way (%/yr) =	1.0%		
Assumed Yearly Inflation for non-Urban Right of Way (%/yr) =	0.0%		
Items not Estimated (% of Construction) =	10.0%		
Preliminary Engineering (% of Construction + Incentives) =	15.0%		
Construction Engineering (% of Construction + Incentives) =	15.0%		

Construction Items		Cost	Remarks
Roadway and Drainage		\$21,000	Signal work only, no roadway work req'd
Traffic and Safety		\$149,700	
Structures		<u>\$0</u>	
Environmental Mitigation		<u>\$0</u>	
<u>ITS</u>		<u>\$0</u>	
	Subtotal Items not Estimated (10%)	\$170,700 \$17,070	
	Construction Subtotal	\$187,770	
P.E. Cost	P.E. Subtotal	\$28,166	15%
C.E. Cost	C.E. Subtotal	\$28,166	15%
Right of Way Urban/Suburban Residential	Right of Way Subtotal	\$0	
Right of Way Urban Suburban Commercial	Right of Way Subtotal	\$0	
Right of Way non-Urban/Suburban	Right of Way Subtotal	\$0	
Utilities	Utilities Subtotal	<u>\$0</u>	
Incentives	Incentives Subtotal	\$0	
Miscellaneous	Miscellaneous Subtotal	\$0	

Cost Estimate (ePM so	reen 505)		2013		2015
	P.E.	1	\$28,000		\$30,000
	Right of Way		\$0		\$0
	Utilities	1	\$0		\$0
	Construction	1	\$188,000		\$219,000
	C.E.		\$28,000		\$30,000
	Incentives		\$0		\$0
	Aesthetics	0%	\$0		\$0
	Change Order Contingency	9%	\$17,000		\$20,000
	UDOT Oversight		\$0		\$0
	Miscellaneous		\$0		\$0
		TOTAL	\$261,000	TOTAL	\$299,000

PROPOSED COMMISSION REQUEST	TOTAL	\$261,000	TOTAL	\$299,000

	- Concept		
Prepared By J-U-B Engineers, Inc. Date	6/17/20	13	
Approximate Route Reference Post (BEGIN) =		(END) =	
Accumulated Mileage (BEGIN) =		(END) =	
Project Length =	0.000	miles	ft
Current FY Year (July-June) =	2013		
Assumed Construction FY Year =	2015		
Construction Items Inflation Factor =	1.17	2 yrs	for inflation
Assumed Yearly Inflation for Engineering Services (PE and CE) (%/yr) =	3.0%		
Assumed Yearly Inflation for Urban Residential Right of Way (%/yr) =	1.0%		
Assumed Yearly Inflation for Urban Commercial Right of Way (%/yr) =	1.0%		
Assumed Yearly Inflation for non-Urban Right of Way (%/yr) =	0.0%		
Items not Estimated (% of Construction) =	20.0%		
Preliminary Engineering (% of Construction + Incentives) =	12.0%	in a	
Construction Engineering (% of Construction + Incentives) =	10.0%		

Construction Items		Cost	Remarks
Roadway and Drainage		\$480,848	
Traffic and Safety		\$39,900	
Structures		<u>\$0</u>	
Environmental Mitigation		\$12,000	
<u>ITS</u>		<u>\$0</u>	
	Subtotal (20%)	\$532,748 \$106,550	
	Construction Subtotal	\$639,298	
P.E. Cost	P.E. Subtotal	\$76,716	12%
C.E. Cost	C.E. Subtotal	\$63,930	10%
Right of Way Urban/Suburban Residential	Right of Way Subtotal	<u>\$0</u>	
Right of Way Urban Suburban Commercial	Right of Way Subtotal	\$0	
Right of Way non-Urban/Suburban	Right of Way Subtotal	<u>\$0</u>	
<u>Utilities</u>	Utilities Subtotal	<u>\$0</u>	
Incentives	Incentives Subtotal	\$0	
Miscellaneous	Miscellaneous Subtotal	\$0	

Cost Estimate (ePM s	screen 505)		2013		2015
	P.E.		\$77,000		\$82,000
	Right of Way		\$0		\$0
	Utilities	1	\$0		\$0
	Construction	1	\$639,000		\$745,000
	C.E.	1	\$64,000		\$68,000
	Incentives		\$0		\$0
	Aesthetics	1%	\$6,000		\$7,000
	Change Order Contingency	9%	\$58,000		\$68,000
	UDOT Oversight		\$0		\$0
	Miscellaneous		\$0		\$0
		TOTAL	\$844,000	TOTAL	\$970,000

PROPOSED COMMISSION REQUEST	TOTAL	\$844,000	TOTAL	\$970,000

PIN ---- PROJECT # ---- SR-198 & US-6. Hook Right Turn Lane from SR-198 to I-15 nb on ramp Cost Estimate - Concept Level

	6/17/2013	Prepared By J-U-B Engineers, Inc. Date
(END) =		Approximate Route Reference Post (BEGIN) =
(END) =		Accumulated Mileage (BEGIN) =
miles ft	0.000	Project Length =
	2013	Current FY Year (July-June) =
	2015	Assumed Construction FY Year =
2 yrs for inflation	1.17	Construction Items Inflation Factor =
	3.0%	Assumed Yearly Inflation for Engineering Services (PE and CE) (%/yr) =
	1.0%	Assumed Yearly Inflation for Urban Residential Right of Way (%/yr) =
	1.0%	Assumed Yearly Inflation for Urban Commercial Right of Way (%/yr) =
	0.0%	Assumed Yearly Inflation for non-Urban Right of Way (%/yr) =
	20.0%	Items not Estimated (% of Construction) =
	12.0%	Preliminary Engineering (% of Construction + Incentives) =
	10.0%	Construction Engineering (% of Construction + Incentives) =

Construction Items		Cost	Remarks
Roadway and Drainage		\$421,868	
Traffic and Safety		\$29,400	
<u>Structures</u>		<u>\$0</u>	
Environmental Mitigation		\$2,000	
<u>ITS</u>		<u>\$0</u>	
	Subtotal Items not Estimated (20%)	\$453,268 \$90,654	
	Construction Subtotal	\$543,922	
P.E. Cost	P.E. Subtotal	\$65,271	12%
C.E. Cost	C.E. Subtotal	\$54,392	10%
Right of Way Urban/Suburban Residential	Right of Way Subtotal	\$0	
Right of Way Urban Suburban Commercial	Right of Way Subtotal	\$0	
Right of Way non-Urban/Suburban	Right of Way Subtotal	\$0	
Utilities	Utilities Subtotal	<u>\$0</u>	
Incentives	Incentives Subtotal	\$0	
Miscellaneous	Miscellaneous Subtotal	\$0	

Cost Estimate (ePM sci	reen 505)		2013		2015
	P.E.		\$65,000		\$69,000
	Right of Way		\$0		\$0
	Utilities		\$0		\$0
	Construction	1	\$544,000		\$635,000
	C.E.	1	\$54,000		\$57,000
	Incentives		\$0		\$0
	Aesthetics	1%	\$5,000		\$6,000
	Change Order Contingency	9%	\$49,000		\$57,000
	UDOT Oversight		\$0		\$0
	Miscellaneous		\$0		\$0
		TOTAL	\$717,000	TOTAL	\$824,000

PROPOSED COMMISSION REQUEST	TOTAL	\$717,000	TOTAL	\$824,000

PIN ---- PROJECT # ---- SR-198 & US-6. Roundabout Interesection Cost Estimate - Concept Level

Prepared By J-U-B Engineers, Inc. Date	6/17/2013	3	
Approximate Route Reference Post (BEGIN) =		(END) =	
Accumulated Mileage (BEGIN) =		(END) =	
Project Length =	0.000	miles	ft
Current FY Year (July-June) =	2013		
Assumed Construction FY Year =	2015		
Construction Items Inflation Factor =	1.17	2	yrs for inflation
Assumed Yearly Inflation for Engineering Services (PE and CE) (%/yr) =	3.0%		
Assumed Yearly Inflation for Urban Residential Right of Way (%/yr) =	1.0%		
Assumed Yearly Inflation for Urban Commercial Right of Way (%/yr) =	1.0%		
Assumed Yearly Inflation for non-Urban Right of Way (%/yr) =	0.0%		
Items not Estimated (% of Construction) =	20.0%		
Preliminary Engineering (% of Construction + Incentives) =	12.0%	45 4	
Construction Engineering (% of Construction + Incentives) =	10.0%		

Construction Items		Cost	Remarks
Roadway and Drainage		\$596,880	- A
Traffic and Safety		\$40,100	
Structures		<u>\$0</u>	
Environmental Mitigation		\$23.875	
<u>its</u>		<u>\$0</u>	
	Subtotal Items not Estimated (20%)	\$660,855 \$132,171	
	Construction Subtotal	\$793,026	
P.E. Cost	P.E. Subtotal	\$95,163	12%
C.E. Cost	C.E. Subtotal	\$79,303	10%
Right of Way Urban/Suburban Residential	Right of Way Subtotal	\$0	
Right of Way Urban Suburban Commercial	Right of Way Subtotal	\$0	
Right of Way non-Urban/Suburban	Right of Way Subtotal	\$0	
Utilities	Utilities Subtotal	\$0	
Incentives	Incentives Subtotal	\$0	
Miscellaneous	Miscellaneous Subtotal	\$0	

Cost Estimate (ePM s	screen 505)		2013		2015
	P.E.		\$95,000		\$101,000
	Right of Way	1	\$0		\$0
	Utilities	1	\$0		\$0
	Construction		\$793,000		\$925,000
	C.E.	1	\$79,000		\$84,000
	Incentives		\$0		\$0
	Aesthetics	1%	\$8,000		\$9,000
	Change Order Contingency	9%	\$72,000		\$84,000
	UDOT Oversight		\$0		\$0
	Miscellaneous		\$0		\$0
		TOTAL	\$1,047,000	TOTAL	\$1,203,000

PROPOSED COMMISSION REQUEST	TOTAL	\$1,047,000	TOTAL	\$1,203,000