

Micron

Traffic Impact Study



Lehi, Utah

REVISED - August 2011

UT10-263



EXECUTIVE SUMMARY

This study addresses the traffic impacts associated with the proposed Micron Development located in Lehi, Utah. The proposed project is located north of SR-92 from approximately 500 West to Highland Blvd.

Included within the analyses for this study are the traffic operations and recommended mitigation measures for future conditions and plus project conditions (conditions after development of the proposed project) at key intersections and roadways in the vicinity of the site. Future 2020 and 2030 conditions were analyzed. Because of current construction on SR-92, and because it could take several years for a project of this size to be completed, no existing conditions were analyzed.

TRAFFIC ANALYSIS

The following is an outline of the traffic analysis performed by Hales Engineering for the traffic conditions of this project.

Future (2020) Background Conditions Analysis

Hales Engineering estimated future (2020) background p.m. peak hour turning movement volumes for the following study intersections:

- 1200 West / SR-92
- Traverse "D" Access (Approximately 900 West) / SR-92
- Center Street / SR-92
- EB Commuter Lane Off-Ramp / Center Street
- 1200 East / SR-92
- Highland Blvd / SR-92

The counts were estimated using data form the SR-92 Environmental Assessment (EA) and the MAG draft 2040 travel demand model (2020 and 2030 model runs).

As shown in Table ES-1, all of the study intersections have acceptable levels of delay during the weekday p.m. peak hour. Queuing is discussed in the body of the report.

Project Conditions Analysis

Land use for the project is as follows:

Technical/Manufacturing: 742,000 sq ftOffice: 4,955,000 sq ft



Social Heart:

Retail: 298,000 sq ft
Office: 481,000 sq ft
Apartments: 115 units
Condos/Townhouses: 470 units
Single Family Residential: 195 units
Schools: 2 schools

Phasing estimates are discussed in the body of the report.

The projected gross trip generation for the partial build development (not including pass-by, transit, and internal capture reductions as discussed in the body of the report) is as follows:

Daily Trips:
a.m. Trips:
82,973 vehicles per day (vpd)
9,705 vehicles per hour (vph)

p.m. Trips: 9,432 vph
Saturday Trips: 34,098 vpd
Saturday Peak Hour Trips: 3,315 vph

The net p.m. peak hour trip generation was estimated to be 7,963 trip ends (16 percent reduction).

Future (2020) Plus Project Conditions Analysis

As shown in Table ES-1, all study intersections experience acceptable levels of delay. Queuing is discussed in the body of the report.

Future (2030) Background Conditions Analysis

As shown in Table ES-1, all study intersections experience acceptable levels of delay. Queuing is discussed in the body of the report.

Future (2030) Plus Project Conditions Analysis

As shown in Table ES-1, several study intersections have unacceptable levels of delay during the weekday p.m. peak hour.



| TABLE ES-1 P.M. Peak Hour Lehi - Micron TIS | | | | | | | | | |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|--|--|--|--|
| Intersection | Future 2020 Background | Future 2020 Plus Project | Future 2030 Background | Future 2030 Plus Project | | | | | |
| Description | LOS (Sec/Veh ¹) | | | | | |
| 1200 West / SR-92 | C (22.6) | C (24.6) | C (32.0) | D (54.6) | | | | | |
| Traverse Mountain Access "D" / SR-92 | A (6.6) | A (6.9) | A (8.3) | A (7.0) | | | | | |
| 500 West / SR-92 ² | - | C (29.3) | WBL (2.9) | D (41.8) | | | | | |
| Center Street / SR-92 | A (8.4) | C (25.3) | B (13.1) | E (68.6) | | | | | |
| EB Commuter Lane Off-Ramp / Center Street | EB / A (1.6) | EB / A (2.8) | EB / A (2.1) | NB / F (>50.0) | | | | | |
| 400 East / SR-92 ² | - | B (20.0) | - | D (49.5) | | | | | |
| 1200 East / SR-92 | C (20.4) | C (28.8) | C (29.9) | E (63.8) | | | | | |
| Highland Blvd. / SR-92 | C (32.1) | C (21.6) | C (24.3) | D (42.8) | | | | | |

^{1.} Intersection LOS and delay (seconds/vehicle) values represent the overall intersection average for signalized and all-way stop-controlled intersections and the worst approach for all other unsignalized intersections.

Source: Hales Engineering, August 2011

RECOMMENDATIONS

Hales Engineering has estimated the approximate time frame (and associated percentage of build-out) for when the various background and plus project improvements may be required. However, there are numerous variables that will affect the exact timing of the improvements such as changes in land use and the actual growth in background traffic. Detailed assumptions for phasing of the development are found in Appendix E. As some of these improvements could be very expensive, it is recommended that additional analysis be completed closer to the actual time of construction.

The improvements are recommended as follows (based on p.m. peak hour conditions):

- Westbound Commuter Lane On-Ramp at 500 West:
 - The on-ramp should be constructed between 2016 and 2020 (25 percent of overall project completion)
- Provide two receiving lanes at 500 West for the westbound commuter lane. This would allow dual left-turn lanes and dual southbound lanes thereby significantly increasing the capacity of the intersection

^{2.} This access is a project access and was only analyzed in "plus project" scenarios.



- This improvement should be constructed between 2021 and 2025 (at approximately 50 percent of overall project completion)
- Eastbound Commuter Lane Off-Ramp Loop Ramp to Northbound Center Street:
 - This loop ramp should be constructed between 2021 and 2025 (at approximately 50 percent of overall project completion). This recommendation is based on a high eastbound to northbound left-turn volume during the a.m. peak period as commuters enter the Micron development from the west. The dual left-turn lanes on the arterial will become oversaturated thereby requiring the capacity of the commuter lanes and the new loop ramp. Hales Engineering is currently conducting a traffic study to refine the analysis for this Center Street / SR-92 area because a.m. conditions were not analyzed for this study.
- Cross Access from Micron to IMFT (East and West Sides)
 - Cross access would have an immediate benefit once retail, restaurant, and other service land uses begin operation in the Micron development.
 - Based on traffic operations, the cross access should be constructed by at least year 2015 as this is when the social heart portion of the project is anticipated to begin.
 - Significant use of cross access from the east portion of the Micron development through IMFT will be required at approximately year 2025.
- Right- and left-turn deceleration lanes are required for each new access (at 500 West, Center Street, and 400 East).
 - These auxiliary lanes should be constructed simultaneously with the new accesses.
- Appendix D shows the recommended cross section widths for roads internal to the Micron development. All internal streets identified as larger than a local cross section should be constructed to their full width when originally constructed. The difference between the local cross section width and the full width will be reimbursed by Lehi City.
- Potential future signal locations internal to the site are also shown in Appendix D. These signals should be installed once warrants are met, or in anticipation of warrants being met. However, based on the estimated phasing of the project, the following is an estimated timeframe for when the signals may be warranted:
 - o 2016 to 2020 (25% Build):
 - First signal north of SR-92 on Center Street
 - First signal north of SR-92 on 400 East
 - o 2021 to 2025 (50% Build):
 - First signal north of SR-92 on 500 West
 - Second signal north of SR-92 on Center Street
 - 2026 to 2030 (75% Build):
 - Signal at east IMFT border



Summary of Key Findings/Recommendations

The following is a summary of key findings and recommendations:

- The roadway network as currently being constructed should be adequate for 2020 traffic volumes as well as a portion of the project traffic (Phase I). In this TIS, Phase I was assumed to be roughly 55 percent of full build-out traffic.
- With 2030 background traffic and full build-out of the project, the external roadway network will experience significant deficiencies that could require additional improvements by UDOT.
- Although the p.m. peak hour traffic will be the worst-case scenario for the SR-92 corridor
 and was analyzed for this study to remain consistent with the SR-92 EA evaluation at
 UDOT's request, the a.m. peak hour in-loading conditions should be monitored by UDOT
 to ensure that left-turn movements do not get oversaturated and create spillover issues
 on SR-92.
- Access management recommendations for this development are given in the body of the report.



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I. INTRODUCTION

A. Purpose

This study addresses the traffic impacts associated with the proposed Micron Development located in Lehi, Utah. The proposed project is located north of SR-92 from approximately 500 West to Highland Blvd. Figure 1 shows a vicinity map of the proposed development.

Included within the analyses for this study are the traffic operations and recommended mitigation measures for future conditions and plus project conditions (conditions after development of the proposed project) at key intersections and roadways in the vicinity of the site. Future 2020 and 2030 conditions were analyzed. Because of current construction on SR-92, and because it could take several years for a project of this size to be completed, no existing conditions were analyzed.



Figure 1 Vicinity map showing project location in Lehi, Utah.



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B. Scope

The study area and the period of evaluation (weekday p.m. peak hour) were defined based on conversations with the development team and Lehi staff. This study was scoped to evaluate the traffic operational performance impacts of the project on the following intersections:

- 1200 West / SR-92
- Traverse "D" Access (Approximately 900 West) / SR-92
- 500 West / SR-92
- Center Street / SR-92
- EB Commuter Lane Off-Ramp / Center Street
- 400 East / SR-92
- 1200 East / SR-92
- Highland Blvd / SR-92

C. Analysis Methodology

Level of service (LOS) is a term that describes the operating performance of an intersection or roadway. LOS is measured quantitatively and reported on a scale from A to F, with A representing the best performance and F the worst. Table 1 provides a brief description of each LOS letter designation and an accompanying average delay per vehicle for both signalized and unsignalized intersections.

The Highway Capacity Manual 2000 (HCM 2000) methodology was used in this study to remain consistent with "state-of-the-practice" professional standards. This methodology has different quantitative evaluations for signalized and unsignalized intersections. For signalized and all-way stop intersections, the LOS is provided for the overall intersection (weighted average of all approach delays). For all other unsignalized intersections LOS is reported based on the worst approach. Hales Engineering has also calculated overall delay values for unsignalized intersections, which provides additional information and represents the overall intersection conditions rather than just the worst approach.

D. Level of Service Standards

For the purposes of this study, a minimum overall intersection performance for each of the study intersections was set at LOS D. However, if LOS E or F conditions exist, an explanation and/or mitigation measures will be presented. An LOS D threshold is consistent with "state-of-the-practice" traffic engineering principles for urbanized areas.



Table 1 Level of Service Descriptions

| Level of Service | Description of Traffic Conditions | Average Delay (seconds/vehicle) |
|---------------------|--|---------------------------------|
| | Signalized Intersections | Overall Intersection |
| А | Extremely favorable progression and a very low level of control delay. Individual users are virtually unaffected by others in the traffic stream. | 0 ≤ 10.0 |
| В | Good progression and a low level of control delay. The presence of other users in the traffic stream becomes noticeable. | > 10.0 and ≤ 20.0 |
| С | Fair progression and a moderate level of control delay. The operation of individual users becomes somewhat affected by interactions with others in the traffic stream. | >20.0 and ≤ 35.0 |
| D | Marginal progression with relatively high levels of control delay. Operating conditions are noticeably more constrained. | > 35.0 and ≤ 55.0 |
| E | Poor progression with unacceptably high levels of control delay. Operating conditions are at or near capacity. | > 55.0 and ≤ 80.0 |
| F | Unacceptable progression with forced or breakdown operating conditions. | > 80.0 |
| | Unsignalized Intersections | Worst Approach |
| А | Free Flow / Insignificant Delay | 0 ≤ 10.0 |
| В | Stable Operations / Minimum Delays | >10.0 and ≤ 15.0 |
| С | Stable Operations / Acceptable Delays | >15.0 and ≤ 25.0 |
| D | Approaching Unstable Flows / Tolerable Delays | >25.0 and ≤ 35.0 |
| E | Unstable Operations / Significant Delays Can Occur | >35.0 and ≤ 50.0 |
| F | Forced Flows / Unpredictable Flows / Excessive Delays Occur | > 50.0 |

Source: Hales Engineering Descriptions, based on Highway Capacity Manual, 2000 Methodology (Transportation Research Board, 2000)



II. FUTURE (2020) BACKGROUND CONDITIONS

A. Purpose

The purpose of the future (2020) background analysis is to study the intersections and roadways during the peak travel periods of the day for future background traffic and geometric conditions. Through this analysis, future background traffic operational deficiencies can be identified and potential mitigation measures recommended.

B. Roadway System

The primary roadways that will provide access to the project site are described below:

<u>Timpanogos Highway (SR-92)</u> – is a state-operated roadway connecting I-15 to the mouth of American Fork Canyon. SR-92 is currently a two-lane road, but is being reconstructed as a five-lane arterial with adjacent grade-separated commuter lanes. The commuter lanes portion of SR-92 will have one travel lane in each direction. A corridor agreement between UDOT, Lehi, and Highland is currently in place outlining the existing and future access to SR-92 (see Appendix F). Other than these planned access locations, it is not anticipated that any additional access to SR-92 will be provided. Many of the assumptions used for this analysis are based on assumptions contained in the SR-92 Environmental Assessment (EA) completed by UDOT in 2008.

Some key assumptions include the following:

- Speed limit on SR-92 (Arterial): 45 mph
- Speed limit on SR-92 (Commuter Lanes): 50 mph
- Year 2020 at-grade intersections:
 - o 1200 West (signalized)
 - Traverse "D" Access (signalized)
 - 500 West (added with project) (signalized)
 - o Center Street (south leg only, north leg added with project) (signalized)
 - 400 East (added with project) (signalized)
 - 1200 East (signalized)
 - Highland Blvd (SunCrest Drive) (signalized)
- Year 2020 commuter lane configuration:
 - EB begins between Frontage Road and Triumph Blvd and ends just west of 1200 East with an off-ramp at Center Street (directional to southbound Center Street only).



- WB begins east of east of Highland Blvd and ends west of 1200 West with an onramp west of 1200 East, an on-ramp from southbound Highland Blvd. just north of SR-92, and an on-ramp at 500 West.
- Year 2030 commuter lane configuration:
 - EB begins between Frontage Road and Triumph Blvd and ends east of 1200 East with an off-ramp at Center Street (directional to southbound Center Street only) and an off-ramp just west of 1200 East onto the eastbound SR-92 arterial. An additional off-ramp is proposed with the project at Center Street (loop ramp directional to northbound Center Street only).
 - WB begins east of Highland Blvd and ends with a ramp directly onto northbound I-15 with an on-ramp west of 1200 East, an on-ramp from southbound Highland Blvd. just north of SR-92, an on-ramp at 500 West, and an off-ramp west of 1200 West.

Geometric layouts used for the analysis were obtained from the UDOT Access Utah County Team for the current construction project on SR-92 and are shown in Appendix E. Other future improvements will be completed with future funding and the geometric layout of these improvements was based on conversations with the Access Utah County Team and from the SR-92 EA documentation.

C. Traffic Volumes

Hales Engineering estimated future 2020 and 2030 traffic volumes for the study intersections based on data from the SR-92 Environmental Assessment (EA) and from the Mountainland Association of Governments (MAG) draft 2040 travel demand model (2020 and 2030 model runs). Hales Engineering used NCHRP 255 methodologies to forecast future intersection turning volumes. Because the SR-92 corridor is currently under construction, Hales Engineering used the turning movement volumes from the SR-92 EA as the base volumes. The future ADT link volumes were obtained from the 2020 and 2030 MAG model runs. Hales Engineering estimated the model trip generation from the traffic analysis zones (TAZs) in the area occupies by the Micron project, and subtracted these trips from the modeled link volumes. This created more realistic "background" scenarios.

Figure 2 shows the future (2020) weekday p.m. peak hour volumes as well as assumed intersection geometry at each of the study intersections.



D. Level of Service Analysis

Using VISSIM, the weekday p.m. peak hour LOS was computed for each study intersection. The results of this analysis are reported in Table 2 (see Appendix B for the detailed LOS reports). Multiple runs of VISSIM were used to provide a statistical evaluation of the interaction between the intersections. These results serve as a baseline condition for the impact analysis of the proposed development during future (2020) conditions. As shown in Table 2, all intersections have acceptable levels of service.

Table 2 Future (2020) Background p.m. Peak Hour Level of Service

| Intersection | | Wor | st Approach | Overall Intersection | | |
|---|----------|-------------------------|---------------------------------------|----------------------|---------------------------------------|------------------|
| Description | Control | Approach ^{1,3} | Aver. Delay (Sec/Veh) ¹ | LOS ¹ | Aver. Delay (Sec/Veh) ² | LOS ² |
| 1200 West / SR-92 | Signal | - | - | - | 22.6 | С |
| Traverse Access "D" / SR-92 | Signal | - | - | - | 6.6 | Α |
| Center Street / SR-92 | Signal | - | - | - | 8.4 | Α |
| EB Commuter Lane Off- Ramp / Center Street | EB Yield | EB | 1.6 | Α | - | - |
| 1200 East / SR-92 | Signal | - | - | - | 20.4 | С |
| Highland Blvd / SR-92 | Signal | - | - | - | 32.1 | С |

^{1.} This represents the worst approach LOS and delay (seconds / vehicle) and is only reported for non-all-way-stop unsignalized intersections.

Source: Hales Engineering, April 2011

E. Queuing Analysis

Hales Engineering calculated the maximum and average queue lengths for each of the study intersections. The queue reports can be found in Appendix D. No significant queuing issues exist at any of the study intersections.

F. Mitigation Measures

No mitigation measures are recommended.

^{2.} This represents the overall intersection LOS and delay (seconds / vehicle)

^{3.} SB = Southbound approach, etc.

Lehi Micron TIS
PM Peak Hour
Future (2020) Background
Figure 2a



Hales Engineering Lehi, Utah



Hales Engineering Lehi, Utah

Lehi Micron TIS
PM Peak Hour
Future (2020) Background
Figure 2c



Hales Engineering Lehi, Utah



III. PROJECT CONDITIONS

A. Purpose

The project conditions analysis explains the type and intensity of development. This provides the basis for trip generation, distribution, and assignment of project trips to the surrounding study intersections defined in the Introduction.

B. Project Description

This study addresses the traffic impacts associated with the proposed Micron Development located in Lehi, Utah. The proposed project is located north of SR-92 from approximately 500 West to Highland Blvd.

A concept plan for the proposed development has been included in Appendix C.

Because of the size of the development, Hales Engineering split the project into two phases based on conversations with the development team. The intent is to provide more realistic operational analyses of the roadway network based on background growth and phased project development.

Phase I includes a significant portion of the office and the technical/manufacturing component as well as a smaller portion of the "social heart" and residential areas. The land use for phase I is as follows:

Technical/Manufacturing: 600,000 sq ftOffice: 3,000,000 sq ft

Social Heart:

Retail: 60,000 sq ft
 Office: 96,000 sq ft
 Condos/Townhouses: 140 units

As currently shown on the concept plan, the Phase I land uses would be located primarily west of IMFT and access 500 West, Center Street, and 400 East.

Phase II includes the remainder of the office and technical/manufacturing components as well as the social heart (mixed use retail/office/residential) and the residential components of the development. The land use for Phase II is as follows:

Technical/Manufacturing: 142,000 sq ftOffice: 1,955,000 sq ft

Social Heart:



Retail: 238,000 sq ft
Office: 385,000 sq ft
Apartments: 115 units
Condos/Townhouses: 330 units
Single Family Residential: 195 units
Schools: 2 schools

Phase II land uses are located on the northern edge of the project and east of IMFT.

Detailed assumptions for phasing of the development are found in Appendix E.

C. Trip Generation

Trip generation for the development was calculated using trip generation rates published in the Institute of Transportation Engineers (ITE) *Trip Generation (8th Edition, 2008)*. Trip Generation for the proposed project is included in Table 3 for Phase I and Table 4 for Phase I and II combined.

ITE trip generation rates are based on gross trips to and from a site. They do not account for the internal interaction between different land uses within a mixed-use development. Because the Micron project will contain employment, retail, and residential land uses, a significant portion of the trips to and from each land use will never exit the development onto SR-92 or the surrounding roadway network. Using ITE mixed-use internal capture methodologies discussed in ITE *Trip Generation Handbook* (2nd Edition, 2004), Hales Engineering estimated the internal capture reduction for the overall site. These reductions are shown in Table 4 and equate to approximately 4 percent of all p.m. peak hour trips. The internal capture percentage is lower for this development than many other mixed-use developments because the proportion of work trips is much higher than retail and residential trips.

Pass-by trips for the retail component of the development were also estimated using data available from the ITE Trip Generation Handbook (2nd Edition, 2004). ITE reports a 34 percent pass-by reduction for shopping centers. This rate can vary greatly depending on the specific land uses. To remain conservative, Hales Engineering assumed a 30 percent pass-by reduction for the analysis. This reduction is shown in Table 4.

Hales Engineering also assumed that some form of mass transit will connect this development with other major transit options (such as light rail and commuter rail). However, since specific details are not yet known at this time, to remain conservative, Hales Engineering took only a 10 percent transit reduction for the employment portions of the site. This reduction is shown in Table 4.

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| Land Use ¹ Il Park (130) ark (750) g Center (820) Office Building (710) tital Condominium/Townhouse (230) Total Daily Trips Land Use ¹ Il Park (130) ark (750) g Center (820) Office Building (710) tital Condominium/Townhouse (230) Total am. Peak Hour Trips | Number of Units 600 3000 60 96 140 Number of Units 600 3000 60 96 140 140 | Unit Type 1,000 Sq. Ft. GFA Dwelling Units Unit Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA | Trip Generation 3,724 31,669 4,872 1,293 862 Trip Generation 410 4,234 | % Entering 50% 50% 50% 50% 50% 50% Entering 82% | % Exiting 50% 50% 50% 50% 50% 50% Exiting | Trips Entering 1,862 15,835 2,436 646 431 21,210 Trips | Trips Exiting 1,862 15,835 2,436 646 431 21,210 Trips | Mixed-Use Internal Capture 0% 0% 0% 0% 0% 0% 0% | Transit Reduction 0% 0% 0% 0% 0% 0% | Pass-by Reduction 0% 0% 0% 0% 0% | Net Trips Entering 1,862 15,835 2,436 646 431 | Net Trips Exiting 1,862 15,835 2,436 646 431 | Total Daily Trips 3,724 31,669 4,872 1,293 |
|--|---|---|--|---|--|---|---|--|---|---|--|---|---|
| I Park (130) ark (750) Office Building (710) Utial Condominium/Townhouse (230) Total Daily Trips Land Use! I Park (130) ark (750) g Center (820) Office Building (710) tial Condominium/Townhouse (230) | 600 3000 60 96 140 Number of Units 600 3000 60 96 | 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA Dwelling Units Unit Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA | 3,724 31,669 4,872 1,293 862 Trip Generation 410 | 50% 50% 50% 50% 50% 50% | 50% 50% 50% 50% 50% | 1,862 15,835 2,436 646 431 21,210 | 1,862 15,835 2,436 646 431 21,210 | 0% 0% 0% 0% 0% | 0% 0% 0% 0% | 0% 0% 0% 0% | 1,862 15,835 2,436 646 431 | 1,862 15,835 2,436 646 | 3,724 31,669 4,872 1,293 |
| ark (750) g Center (820) Office Building (710) tital Condominium/Townhouse (230) Total Daily Trips Land Use il Park (130) ark (750) g Center (820) Office Building (710) tital Condominium/Townhouse (230) | 3000 60 96 140 Number of Units 600 3000 60 96 | 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA 1,000 Sq. Ft. GFA Dwelling Units Unit Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA | 31,669 4,872 1,293 862 Trip Generation 410 | 50% 50% 50% 50% 50% | 50% 50% 50% 50% | 15,835 2,436 646 431 21,210 | 15,835 2,436 646 431 21,210 | 0% 0% 0% 0% | 0% 0% 0% | 0% 0% 0% | 15,835 2,436 646 431 | 15,835 2,436 646 | 31,669 4,872 1,293 |
| g Center (820) Office Building (710) Italia Condominium/Townhouse (230) Fotal Daily Trips Land Use* Il Park (130) ark (750) g Center (820) Office Building (710) Italia Condominium/Townhouse (230) | 60 96 140 Number of Units 600 3000 60 96 | 1,000 Sq. Ft. GLA 1,000 Sq. Ft. GFA Dwelling Units Unit Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA | 4,872 1,293 862 Trip Generation 410 | 50% 50% 50% % Entering | 50% 50% 50% | 2,436 646 431 21,210 | 2,436 646 431 21,210 | 0% 0% 0% | 0% 0% | 0% 0% | 2,436 646 431 | 2,436 646 | 4,872 1,293 |
| Office Building (710) tital Condominium/Townhouse (230) Total Daily Trips Land Use¹ Il Park (130) ark (750) g Center (820) Office Building (710) tital Condominium/Townhouse (230) | 96 140 Number of Units 600 3000 60 96 | 1,000 Sq. Ft. GFA Dwelling Units Unit Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA | 1,293 862 Trip Generation 410 | 50% 50% % Entering | 50% 50% | 646 431 21,210 | 646 431 21,210 | 0% 0% | 0% | 0% | 646 431 | 646 | 1,293 |
| itial Condominium/Townhouse (230) Total Daily Trips Land Use¹ I Park (130) ark (750) g Center (820) Office Building (710) tial Condominium/Townhouse (230) | Number of Units 600 3000 60 96 | Unit Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA | 862 Trip Generation 410 | 50% % Entering | 50% | 431 21,210 | 431 21,210 | 0% | | | 431 | | , |
| Land Use' Land Use' Il Park (130) ark (750) g Center (820) Office Building (710) tital Condominium/Townhouse (230) | Number of Units 600 3000 60 96 | Unit Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA | Trip Generation 410 | % Entering | % | 21,210 | 21,210 | | 0% | 0% | | /131 | |
| Land Use ¹ all Park (130) ark (750) g Center (820) Office Building (710) tial Condominium/Townhouse (230) | Units 600 3000 60 96 | Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA | Generation 410 | Entering | | | | | | | | | 862 |
| Il Park (130) ark (750) g Center (820) Office Building (710) tial Condominium/Townhouse (230) | Units 600 3000 60 96 | Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA | Generation 410 | Entering | | | Trine | | | | 21,210 | 21,210 | 42,420 |
| Il Park (130) ark (750) g Center (820) Office Building (710) tial Condominium/Townhouse (230) | 600 3000 60 96 | 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA | 410 | | Exitina | | IIIpa | Mixed-Use | Transit | Pass-by | Net Trips | Net Trips | Total a.m. |
| ark (750) g Center (820) Office Building (710) tial Condominium/Townhouse (230) | 3000 60 96 | 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA | | 020/ | | Entering | Exiting | Internal Capture | Reduction | Reduction | Entering | Exiting | Trips |
| g Center (820) Office Building (710) tial Condominium/Townhouse (230) | 60 96 | 1,000 Sq. Ft. GLA | 4,234 | 02 /0 | 18% | 336 | 74 | 0% | 0% | 0% | 336 | 74 | 410 |
| Office Building (710) tial Condominium/Townhouse (230) | 96 | | | 89% | 11% | 3,769 | 466 | 0% | 0% | 0% | 3,769 | 466 | 4,234 |
| tial Condominium/Townhouse (230) | | 1.000 Sq. Ft. GFA | 114 | 61% | 39% | 70 | 44 | 0% | 0% | 0% | 70 | 44 | 114 |
| | 140 | 7 | 182 | 88% | 12% | 160 | 22 | 0% | 0% | 0% | 160 | 22 | 182 |
| Total a.m. Peak Hour Trips | | Dwelling Units | 68 | 17% | 83% | 11 | 56 | 0% | 0% | 0% | 11 | 56 | 68 |
| | | | | | | 4,345 | 662 | | | | 4,345 | 662 | 5,007 |
| | Number of | | | | | | Trips | Mixed-Use | Transit | Pass-by | Net Trips | Net Trips | Total p.m. |
| Land Use ¹ | Units | Туре | Generation | Entering | Exiting | Entering | Exiting | Internal Capture | Reduction | Reduction | Entering | Exiting | Trips |
| l Park (130) | 600 | 1,000 Sq. Ft. GFA | 504 | 21% | 79% | 106 | 398 | 1% | 10% | 0% | 94 | 355 | 449 |
| ark (750) | 3000 | 1,000 Sq. Ft. GFA | 3,756 | 14% | 86% | 526 | 3,230 | 1% | 10% | 0% | 469 | 2,878 | 3,346 |
| g Center (820) | 60 | 1,000 Sq. Ft. GLA | 452 | 49% | 51% | 221 | 230 | 9% | 0% | 30% | 141 | 147 | 288 |
| Office Building (710) | 96 | 1,000 Sq. Ft. GFA | 186 | 17% | 83% | 32 | 155 | 1% | 10% | 0% | 28 | 138 | 166 |
| tial Condominium/Townhouse (230) | 140 | Dwelling Units | 79 | 67% | 33% | 53 | 26 | 40% | 0% | 0% | 32 | 16 | 48 |
| Total p.m. Peak Hour Trips | | | | | | 938 | 4,039 | | | | 764 | 3,533 | 4,297 |
| | Number of | | | | | | | Mixed-Use | Transit | Pass-by | Net Trips | Net Trips | Total Sat. Dai |
| Land Use ¹ | Units | Туре | Generation | Entering | Exiting | Entering | Exiting | Internal Capture | Reduction | Reduction | Entering | Exiting | Trips |
| l Park (130) | 600 | 1,000 Sq. Ft. GFA | 1,449 | 50% | 50% | 725 | 725 | 0% | 0% | 0% | 725 | 725 | 1,449 |
| ark (750) | 3000 | 1,000 Sq. Ft. GFA | 4,920 | 50% | 50% | 2,460 | 2,460 | 0% | 0% | 0% | 2,460 | 2,460 | 4,920 |
| g Center (820) | 60 | 1,000 Sq. Ft. GLA | 6,697 | 50% | 50% | 3,349 | 3,349 | 0% | 0% | 0% | 3,349 | 3,349 | 6,697 |
| Office Building (710) | 96 | 1,000 Sq. Ft. GFA | 224 | 50% | 50% | 112 | 112 | 0% | 0% | 0% | 112 | 112 | 224 |
| tial Condominium/Townhouse (230) | 140 | Dwelling Units | 935 | 50% | 50% | 467 | 467 | 0% | 0% | 0% | 467 | 467 | 935 |
| Total Saturday Trips | | | | | | 7,113 | 7,113 | | | | 7,113 | 7,113 | 14,225 |
| Hour | Number of | Unit | | | | Trips | Trips | Mixed-Use | Transit | Pass-by | Net Trips | Net Trips | Total Sat Pk I |
| Land Use ¹ | Units | Туре | Generation | Entering | Exiting | Entering | Exiting | Internal Capture | Reduction | Reduction | Entering | Exiting | Trips |
| l Park (130) | | | | | | | | | | | | | 210 |
| | | 1,000 Sq. Ft. GFA | | | | 311 | 109 | | | | 311 | | 420 |
| ark (750) | | 7 | | | | | | | | | | | 615 |
| g Center (820) | | | | 4.70 | | | | | | | | | 39 |
| g Center (820) Office Building (710) | 140 | Dwelling Units | 83 | 54% | 46% | | | 0% | 0% | 0% | | | 83 |
| g Center (820) Office Building (710) tial Condominium/Townhouse (230) | | | | | | 764 | 604 | | | | 764 | 604 | 1,367 |
| l Park (| Land Use ¹ 130)) r (820) suilding (710) dominium/Townhouse (230) | Land Use ¹ Units 130) 650 0) 3000 r (820) 60 suilding (710) 96 dominium/Townhouse (230) 140 turday Peak Hour Trips 140 | Land Use ¹ Units Type 130) 600 1,000 Sq. Ft. GFA 0) 3000 1,000 Sq. Ft. GFA r (820) 60 1,000 Sq. Ft. GLA building (710) 96 1,000 Sq. Ft. GFA dominium/Townhouse (230) 140 Dwelling Units | Land Use ¹ Units Type Generation (130) 600 1,005 Sq. Ft. GFA 210 (a) 3000 1,000 Sq. Ft. GFA 420 (r (820) 60 1,000 Sq. Ft. GFA 420 uliding (710) 96 1,000 Sq. Ft. GFA 39 dominium/Townhouse (230) 140 Dwelling Units 83 turday Peak Hour Trips 83 | Land Use ¹ Units Type Generation Entering (130) 600 1,000 Sq. Ft. GFA 210 32% (a) 3000 1,000 Sq. Ft. GFA 420 74% (r (820) 60 1,000 Sq. Ft. GFA 420 52% suliding (710) 96 1,000 Sq. Ft. GFA 39 54% dominium/Townhouse (230) 140 Dwelling Units 83 54% studay Peak Hour Trips 40 | Lend Use¹ Units Type Generation Entering Exiting 130) 600 1,000 Sq. Ft. GFA 210 32% 68% r () 3000 1,000 Sq. Ft. GFA 420 74% 28% r (820) 60 1,000 Sq. Ft. GFA 615 52% 48% vuliding (710) 96 1,000 Sq. Ft. GFA 39 54% 46% dominium/Townhouse (230) 140 Dwelling Units 83 54% 46% turday Peak Hour Trips 40% 40% 40% 40% 40% | Lend Use ¹ Units Type Generation Entering Exting Entering 130) 600 1,000 Sq. Ft. GFA 210 32% 68% 67 r) 3000 1,000 Sq. Ft. GFA 420 74% 26% 311 r (820) 60 1,000 Sq. Ft. GFA 420 52% 48% 320 suldiding (710) 96 1,000 Sq. Ft. GFA 39 54% 46% 21 dominium/Townhouse (230) 140 Dwelling Units 83 54% 46% 45 turday Peak Hour Trips 764 | Land Use ¹ Units Type Generation Entering Exiting Entering Exiting 130) 600 1,000 Sq. Ft. GFA 210 32% 68% 67 143 r) 3000 1,000 Sq. Ft. GFA 420 74% 29% 3111 109 r (820) 60 1,000 Sq. Ft. GFA 49 48% 320 295 suldiding (710) 96 1,000 Sq. Ft. GFA 39 54% 46% 21 18 dominium/Townhouse (230) 140 Dwelling Units 83 54% 46% 45 38 turday Peak Hour Trips 764 604 | Land Use ¹ Units Type Generation Entering Exiting Exiting Exiting Internal Capture 130) 600 1,000 Sq. Ft. GFA 210 32% 68% 67 143 0% 10) 3000 1,000 Sq. Ft. GFA 420 74% 25% 311 109 0% r (820) 60 1,000 Sq. Ft. GFA 615 52% 48% 320 295 0% suldiding (710) 96 1,000 Sq. Ft. GFA 39 54% 46% 21 18 0% dominium/Townhouse (230) 1140 Dwelling Units 83 54% 46% 45 38 0% turday Peak Hour Trips 764 604 400 604 400 <td>Land Use¹ Units Type Generation Entering Exiting Exiting Internal Capture Reduction 130) 600 1,000 Sq. Ft. GFA 210 32% 68% 67 143 0%<td>Land Use¹ Units Type Generation Entering Exiting Entering Exiting Intering O% 0</td><td>Land Use¹ Units Type Generation Entering Exiting Entering Exiting Entering Exiting Internal Capture Reduction Entering Entering 130) 600 1,000 Sq. Ft. GFA 210 32% 68% 67 143 0% 0% 0% 66 311 r (820) 3000 1,000 Sq. Ft. GFA 420 74% 26% 3111 109 0% 0% 0% 311 r (820) 60 1,000 Sq. Ft. GFA 615 52% 48% 320 295 0% 0% 0% 320 suliding (710) 96 1,000 Sq. Ft. GFA 39 54% 46% 21 18 0% 0% 0% 21 dominium/Townbouse (230) 140 Dwelling Units 83 54% 46% 45 38 0% 0% 0% 45 turday Peak Hour Trips 4 54% 46% 45 484 604 4604</td><td>Land Use¹ Units Type Generation Entering Exiting Exiting Litting Interning Reduction Reduction Reduction Exiting Exiting 130) 600 1,000 Sq. Ft. GFA 420 32% 68% 67 143 0% 0% 0% 67 143 10) 3000 1,000 Sq. Ft. GFA 420 74% 25% 311 109 0% 0% 0% 311 109 r (820) 60 1,000 Sq. Ft. GFA 420 48% 320 295 0% 0% 0% 320 295 sulding (710) 96 1,000 Sq. Ft. GFA 39 54% 46% 21 18 0% 0% 0% 0% 21 18 dominium/Townhouse (230) 140 Dwelling Units 83 54% 46% 45 38 0% 0% 0% 46 604</td></td> | Land Use¹ Units Type Generation Entering Exiting Exiting Internal Capture Reduction 130) 600 1,000 Sq. Ft. GFA 210 32% 68% 67 143 0% <td>Land Use¹ Units Type Generation Entering Exiting Entering Exiting Intering O% 0</td> <td>Land Use¹ Units Type Generation Entering Exiting Entering Exiting Entering Exiting Internal Capture Reduction Entering Entering 130) 600 1,000 Sq. Ft. GFA 210 32% 68% 67 143 0% 0% 0% 66 311 r (820) 3000 1,000 Sq. Ft. GFA 420 74% 26% 3111 109 0% 0% 0% 311 r (820) 60 1,000 Sq. Ft. GFA 615 52% 48% 320 295 0% 0% 0% 320 suliding (710) 96 1,000 Sq. Ft. GFA 39 54% 46% 21 18 0% 0% 0% 21 dominium/Townbouse (230) 140 Dwelling Units 83 54% 46% 45 38 0% 0% 0% 45 turday Peak Hour Trips 4 54% 46% 45 484 604 4604</td> <td>Land Use¹ Units Type Generation Entering Exiting Exiting Litting Interning Reduction Reduction Reduction Exiting Exiting 130) 600 1,000 Sq. Ft. GFA 420 32% 68% 67 143 0% 0% 0% 67 143 10) 3000 1,000 Sq. Ft. GFA 420 74% 25% 311 109 0% 0% 0% 311 109 r (820) 60 1,000 Sq. Ft. GFA 420 48% 320 295 0% 0% 0% 320 295 sulding (710) 96 1,000 Sq. Ft. GFA 39 54% 46% 21 18 0% 0% 0% 0% 21 18 dominium/Townhouse (230) 140 Dwelling Units 83 54% 46% 45 38 0% 0% 0% 46 604</td> | Land Use¹ Units Type Generation Entering Exiting Entering Exiting Intering O% 0 | Land Use ¹ Units Type Generation Entering Exiting Entering Exiting Entering Exiting Internal Capture Reduction Entering Entering 130) 600 1,000 Sq. Ft. GFA 210 32% 68% 67 143 0% 0% 0% 66 311 r (820) 3000 1,000 Sq. Ft. GFA 420 74% 26% 3111 109 0% 0% 0% 311 r (820) 60 1,000 Sq. Ft. GFA 615 52% 48% 320 295 0% 0% 0% 320 suliding (710) 96 1,000 Sq. Ft. GFA 39 54% 46% 21 18 0% 0% 0% 21 dominium/Townbouse (230) 140 Dwelling Units 83 54% 46% 45 38 0% 0% 0% 45 turday Peak Hour Trips 4 54% 46% 45 484 604 4604 | Land Use ¹ Units Type Generation Entering Exiting Exiting Litting Interning Reduction Reduction Reduction Exiting Exiting 130) 600 1,000 Sq. Ft. GFA 420 32% 68% 67 143 0% 0% 0% 67 143 10) 3000 1,000 Sq. Ft. GFA 420 74% 25% 311 109 0% 0% 0% 311 109 r (820) 60 1,000 Sq. Ft. GFA 420 48% 320 295 0% 0% 0% 320 295 sulding (710) 96 1,000 Sq. Ft. GFA 39 54% 46% 21 18 0% 0% 0% 0% 21 18 dominium/Townhouse (230) 140 Dwelling Units 83 54% 46% 45 38 0% 0% 0% 46 604 |



| | | | | | Tabl Lehi - Mic ieneratio | | e I&II | | | | | | | |
|---|--|---|--|--|--|---|--|--|--|---|--|---|---|--|
| Daily | Land Use ¹ | Number of Units | Unit Type | Trip Generation | % Entering | % Exiting | Trips Entering | Trips Exiting | Mixed-Use Internal Capture | Transit Reduction | Pass-by Reduction | Net Trips Entering | Net Trips Exiting | Total Dail |
| Employment | | 742 | 1,000 Sq. Ft. GFA | 4,428 | 50% | 50% | 2.214 | 2,214 | 0% | 0% | 0% | 2,214 | 2,214 | 4,428 |
| Employment | | 4955 | 1,000 Sq. Ft. GFA | 52,040 | 50% | 50% | 26,020 | 26,020 | 0% | 0% | 0% | 26,020 | 26,020 | 52,040 |
| Social Heart | Shopping Center (820) | 298 | 1,000 Sq. Ft. GLA | 13,809 | 50% | 50% | 6.905 | 6,905 | 0% | 0% | 0% | 6,905 | 6,905 | 13.809 |
| Social Heart | General Office Building (710) | 481 | 1,000 Sq. Ft. GFA | 4,471 | 50% | 50% | 2,236 | 2,236 | 0% | 0% | 0% | 2.236 | 2,236 | 4,471 |
| Social Heart | Apartment (220) | 115 | Dwelling Units | 820 | 50% | 50% | 410 | 410 | 0% | 0% | 0% | 410 | 410 | 820 |
| Residential | Residential Condominium/Townhouse (230) | 470 | Dwelling Units | 2,472 | 50% | 50% | 1,236 | 1,236 | 0% | 0% | 0% | 1,236 | 1,236 | 2,472 |
| Residential | Single-Family Detached Housing (210) | 195 | Dwelling Units | 1,922 | 50% | 50% | 961 | 961 | 0% | 0% | 0% | 961 | 961 | 1,922 |
| School | Elementary School (520) | 70 | 1,000 Sq. Ft. GFA | 1,080 | 50% | 50% | 540 | 540 | 0% | 0% | 0% | 540 | 540 | 1,080 |
| School | Middle School (522) | 140 | 1,000 Sq. Ft. GFA | 1,929 | 50% | 50% | 965 | 965 | 0% | 0% | 0% | 965 | 965 | 1,929 |
| 0011001 | Project Total Daily Trips | 110 | 1,000 04: 11: 0171 | 1,020 | 0070 | 0070 | 41.486 | 41.486 | 0,0 | 0,0 | 0.0 | 41.486 | 41.486 | 82.973 |
| ı.m. Peak | | Number of | Unit | Trip | % | % | Trips | Trips | Mixed-Use | Transit | Pass-by | Net Trips | Net Trips | . , |
| I.III. Fear | Land Use ¹ | Units | | IIIb | | % Exiting | Enterina | Fxiting | Internal Capture | Datasi | Reduction | Fntering | Fxiting | Total a.m |
| | | 742 | Type 1,000 Sq. Ft. GFA | Generation 483 | Entering 82% | 18% | Entering 396 | Exiting 87 | Internal Capture | 0% | Reduction 0% | Entering 396 | Exiting 87 | Trips 483 |
| | | | | | | | | | | 0% | | | | |
| Employment | | 4955 | 1,000 Sq. Ft. GFA | 6,913 | 89% | 11% | 6,152 | 760 | 0% | | 0% | 6,152 | 760 | 6,913 |
| Social Heart | Shopping Center (820) | 298 | 1,000 Sq. Ft. GLA | 293 | 61% | 39% | 179 | 114 | 0% | 0% | 0% | 179 | 114 | 293 |
| Social Heart | General Office Building (710) | 481 | 1,000 Sq. Ft. GFA | 659 | 88% | 12% | 580 | 79 | 0% | - , - | 0% | 580 | 79 | 659 |
| Social Heart | Apartment (220) | 115 | Dwelling Units | 60 | 20% | 80% | 12 | 48 | 0% | 0% | 0% | 12 | 48 | 60 |
| Residential | Residential Condominium/Townhouse (230) | 470 | Dwelling Units | 178 | 17% | 83% | 30 | 148 | 0% | 0% | 0% | 30 | 148 | 178 |
| Residential | Single-Family Detached Housing (210) | 195 | Dwelling Units | 146 | 25% | 75% | 36 | 109 | 0% | 0% | 0% | 36 | 109 | 146 |
| School | Elementary School (520) | 70 | 1,000 Sq. Ft. GFA | 364 | 56% | 44% | 204 | 160 | 0% | 0% | 0% | 204 | 160 | 364 |
| School | Middle School (522) | 140 | 1,000 Sq. Ft. GFA | 609 | 55% | 45% | 335 | 274 | 0% | 0% | 0% | 335 | 274 | 609 |
| | Project Total a.m. Peak Hour Trips | | | | | | 7,924 | 1,780 | | | | 7,924 | 1,780 | 9,705 |
| .m. Peak | | Number of | Unit | | | | Trips | Trips | Mixed-Use | Transit | Pass-by | Net Trips | Net Trips | Total p.m |
| | Land Use ¹ | Units | Туре | Generation | Entering | Exiting | Entering | Exiting | Internal Capture | Reduction | Reduction | Entering | Exiting | Trips |
| Employment | Industrial Park (130) | 742 | 1,000 Sq. Ft. GFA | 613 | 21% | 79% | 129 | 485 | 1% | 10% | 0% | 115 | 432 | 547 |
| Employment | Office Park (750) | 4955 | 1,000 Sq. Ft. GFA | 6,141 | 14% | 86% | 860 | 5,281 | 1% | 10% | 0% | 766 | 4,706 | 5,472 |
| Social Heart | Shopping Center (820) | 298 | 1,000 Sq. Ft. GLA | 1,322 | 49% | 51% | 648 | 674 | 13% | 0% | 30% | 395 | 411 | 805 |
| Social Heart | General Office Building (710) | 481 | 1,000 Sq. Ft. GFA | 618 | 17% | 83% | 105 | 513 | 1% | 10% | 0% | 94 | 457 | 550 |
| Social Heart | Apartment (220) | 115 | Dwelling Units | 81 | 65% | 35% | 53 | 28 | 30% | 0% | 0% | 37 | 20 | 57 |
| Residential | Residential Condominium/Townhouse (230) | 470 | Dwelling Units | 214 | 67% | 33% | 143 | 71 | 30% | 0% | 0% | 100 | 49 | 150 |
| Residential | Single-Family Detached Housing (210) | 195 | Dwelling Units | 192 | 63% | 37% | 121 | 71 | 30% | 0% | 0% | 85 | 50 | 134 |
| School | Elementary School (520) | 70 | 1,000 Sq. Ft. GFA | 85 | 45% | 55% | 38 | 47 | 1% | 0% | 0% | 38 | 46 | 84 |
| School | Middle School (522) | 140 | 1,000 Sq. Ft. GFA | 167 | 52% | 48% | 87 | 80 | 1% | 0% | 0% | 86 | 79 | 165 |
| | Destruct Total and Destruction Trees | | | | | | 2,183 | 7,249 | | | | 1,714 | 6,249 | 7,963 |
| | Project Total p.m. Peak Hour Trips | | | | | | | | Mixed-Use | Transit | Pass-by | Net Trips | Net Trips | Total Sat. Da |
| aturday | Daily | Number of | Unit | Trip | | | Trips | | | | | | | |
| | Daily Land Use ¹ | Units | Туре | Generation | Entering | Exiting | Entering | Exiting | Internal Capture | Reduction | Reduction | Entering | Exiting | Trips |
| Employment | Daily Land Use ¹ Industrial Park (130) | Units 742 | Type 1,000 Sq. Ft. GFA | Generation 1,769 | Entering 50% | Exiting 50% | Entering 884 | 884 | 0% | 0% | 0% | 884 | Exiting 884 | 1,769 |
| Employment Employment | Daily Land Use ¹ Industrial Park (130) Office Park (750) | 742 4955 | Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA | 1,769 8,126 | 50% 50% | 50% 50% | 884 4,063 | 884 4,063 | 0% 0% | 0% 0% | 0% 0% | 884 4,063 | 884 4,063 | 1,769 8,126 |
| Employment Employment Social Heart | Daily Land Use ¹ Industrial Park (130) Office Park (750) Shopping Center (820) | 742 4955 298 | Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA | 1,769 8,126 18,383 | 50% 50% 50% | 50% 50% 50% | 884 4,063 9,191 | 884 4,063 9,191 | 0% 0% 0% | 0% 0% 0% | 0% 0% 0% | 884 4,063 9,191 | 884 4,063 9,191 | 1,769 8,126 18,383 |
| Employment Employment Social Heart Social Heart | Daily Land Use ¹ Industrial Park (130) Office Park (750) Shopping Center (820) General Office Building (710) | Units 742 4955 298 481 | Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA 1,000 Sq. Ft. GLA | 1,769 8,126 18,383 1,048 | 50% 50% 50% 50% 50% | 50% 50% 50% 50% 50% | 884 4,063 9,191 524 | 884 4,063 9,191 524 | 0% 0% 0% 0% | 0% 0% 0% 0% | 0% 0% 0% 0% | 884 4,063 9,191 524 | 884 4,063 9,191 524 | 1,769 8,126 18,383 1,048 |
| Employment Employment Social Heart Social Heart Social Heart | Daily Land Use¹ Industrial Park (130) Office Park (750) Shopping Center (820) General Office Building (710) Apartment (220) | Units 742 4955 298 481 115 | Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA 1,000 Sq. Ft. GFA Dwelling Units | 1,769 8,126 18,383 1,048 647 | 50% 50% 50% 50% 50% 50% | 50% 50% 50% 50% 50% 50% | 884 4,063 9,191 524 323 | 884 4,063 9,191 524 323 | 0% 0% 0% 0% 0% | 0% 0% 0% 0% 0% | 0% 0% 0% 0% 0% | 884 4,063 9,191 524 323 | 884 4,063 9,191 524 323 | 1,769 8,126 18,383 1,048 647 |
| Employment Employment Social Heart Social Heart Social Heart Residential | Daily Land Use ¹ Industrial Park (130) Office Park (750) Shopping Center (820) General Office Building (710) Apartment (220) Residential Condominium/Townhouse (230) | Units 742 4955 298 481 115 470 | Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA 1,000 Sq. Ft. GLA 1,000 Sq. Ft. GFA Dwelling Units Dwelling Units | Generation 1,769 8,126 18,383 1,048 647 2,129 | 50% 50% 50% 50% 50% 50% 50% | 50% 50% 50% 50% 50% 50% 50% | Entering 884 4,063 9,191 524 323 1,065 | 884 4,063 9,191 524 323 1,065 | 0% 0% 0% 0% 0% | 0% 0% 0% 0% 0% | 0% 0% 0% 0% 0% | 884 4,063 9,191 524 323 1,065 | Exiting 884 4,063 9,191 524 323 1,065 | 1,769 8,126 18,383 1,048 647 2,129 |
| Employment Employment Social Heart Social Heart Social Heart Residential Residential | Daily Land Use ¹ Industrial Park (130) Office Park (750) Shopping Center (820) General Office Building (710) Apartment (220) Apartment (220) Single-Family Detached Housing (210) | Units 742 4955 298 481 115 470 195 | Type 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GFA 1,000 Sq. Ft. GLA 1,000 Sq. Ft. GLA 1,000 Sq. Ft. GFA Dwelling Units Dwelling Units Dwelling Units | Generation 1,769 8,126 18,383 1,048 647 2,129 1,997 | 50% 50% 50% 50% 50% 50% | 50% 50% 50% 50% 50% 50% | Entering 884 4,063 9,191 524 323 1,065 998 | 884 4,063 9,191 524 323 1,065 998 | 0% 0% 0% 0% 0% 0% | 0% 0% 0% 0% 0% 0% | 0% 0% 0% 0% 0% 0% | 884 4,063 9,191 524 323 1,065 998 | Exiting 884 4,063 9,191 524 323 1,065 998 | 1,769 8,126 18,383 1,048 647 2,129 1,997 |
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D. Trip Distribution and Assignment

Project traffic is assigned to the roadway network based on the type of trip and the proximity of project access points to major streets, high population densities, and regional trip attractions. Existing travel patterns observed during data collection also provide helpful guidance to establishing these distribution percentages, especially in close proximity to the site. Hales



Engineering also made use of the MAG 2040 travel demand model to assist in estimating future distribution of traffic. The resulting overall distribution of project generated trips is as follows:

To/From the Development:

- 40% West on SR-92
- 5% Northwest to/from Traverse Mountain area
- 5% North on Highland Blvd. (SunCrest Dr.)
- 20% East on SR-92
- 15% South on 1200 East
- 10% South on Center Street
- 5% South on 1200 West

These trip distribution assumptions were used to assign the p.m. peak hour generated traffic at the study intersections to create trip assignment for the proposed development. Figure 3 shows the Phase I trip assignment and Figure 4 shows the Phase I and II combined trip assignment.

Appendix D shows the recommended cross section widths for the roads internal to the Micron development based on distribution and assignment assumptions above. While the streetscape and side treatments may be altered, the primary purpose of the map is to show recommended lane counts.

In addition to the internal roads and SR-92, several other roads in Lehi are critical to the success of this project in dispersing traffic away from the site such as 2300 West, 1200 West, Center Street, 1200 East, Highland Blvd., and 3200 North.

E. Access

As previously discussed, a corridor agreement is in place between UDOT, Lehi, and Highland that defines the access onto SR-92 (see Appendix F). Access to the Micron development includes the following:

- 500 West: Full, signalized access at 500 West to the arterial portion of SR-92. This intersection would also have an on-ramp onto the westbound commuter lanes.
- Center Street: Full signalized access at Center Street to the arterial portion of SR-92.
 There is also a planned eastbound commuter lane off-ramp to southbound Center Street
 and an off-ramp form eastbound commuter lane to northbound Center Street which
 would allow access into the development.
- 400 East: Full, signalized access at 400 East to the arterial portion of SR-92. Because it
 will be a T-intersection, Hales Engineering assumed it will be constructed as a "high
 functioning T-intersection" (High-T). This provides an acceleration lane for the
 southbound to eastbound left-turn movement and does not require the eastbound
 movement to stop.



In addition to this direct access to SR-92, the project would also have access to Highland Blvd at multiple locations as well as east/west connectivity parallel to SR-92 on the west side of the development (See concept plan in Appendix C). Additionally, it was assumed that cross access will eventually exist between the Micron project and IMFT, although those details have not yet been worked out. Advantages to this cross access include utilizing unused capacity at the 1200 East intersection, as well as reducing trips on SR-92 because trips between IMFT and the retail areas in the Micron project won't need to use SR-92.

F. Auxiliary Lane Requirements

Based on UDOT Administrative Rule R930-6, the following auxiliary lanes are required for access onto an Access Category 3 roadway:

Right-Turn Deceleration Lane:

• Required when the projected peak hour right-turn ingress volume is greater than 10 vph.

Left-Turn Deceleration Lane:

• Required when the projected peak hour left turn ingress volume is greater than 5 vph.

Right-Turn Acceleration Lane:

Required when the projected peak hour right turn egress volume is greater than 10 vph.

Left-Turn Acceleration Lane:

• Generally not required when the speed limit is less than 50 mph or the access is signalized.

Based on these requirements, a right-turn deceleration lane and left-turn deceleration lane recommended at the following proposed access locations:

- 500 West
- Center Street
- 400 East

Right- and left-turn acceleration lanes are not recommended at any of the access locations because it is assumed they will all be signalized on opening day of the access and because the speed limit is only 45 mph. A left-turn acceleration lane is recommended at 400 East as part of a High-T intersection.

Lehi Micron TIS
PM Peak Hour
Future (2020) Trip Assignment
Figure 3a



Hales Engineering Lehi, Utah

Lehi Micron TIS
PM Peak Hour
Future (2020) Trip Assignment
Figure 3b



Hales Engineering Lehi, Utah

Lehi Micron TIS
PM Peak Hour
Future (2020) Trip Assignment
Figure 3c



Hales Engineering Lehi, Utah



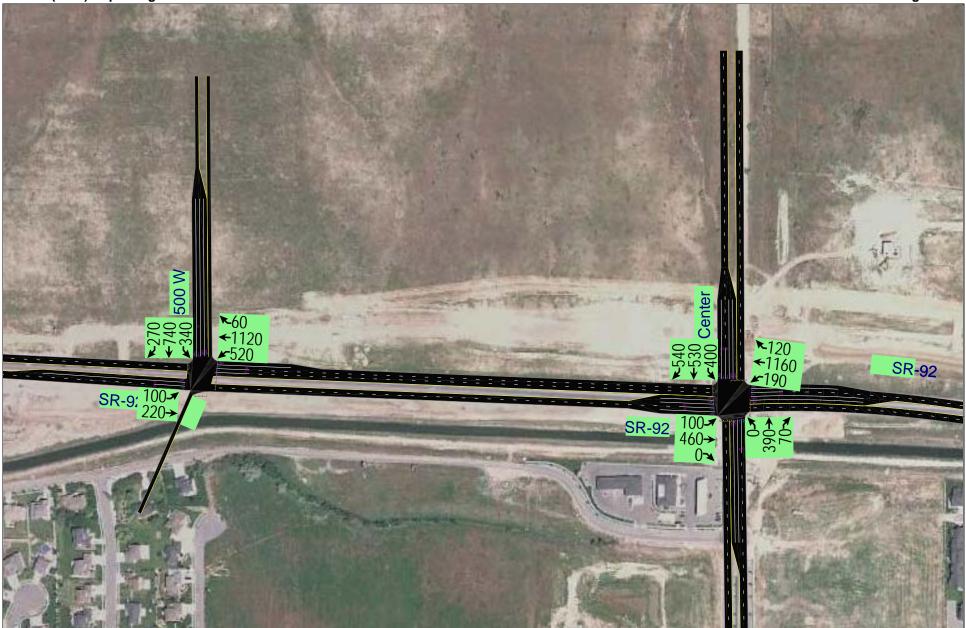
Hales Engineering Lehi, Utah

Lehi Micron TIS
PM Peak Hour
Future (2030) Trip Assignment
Figure 4a



Hales Engineering Lehi, Utah

Lehi Micron TIS
PM Peak Hour
Future (2030) Trip Assignment
Figure 4b



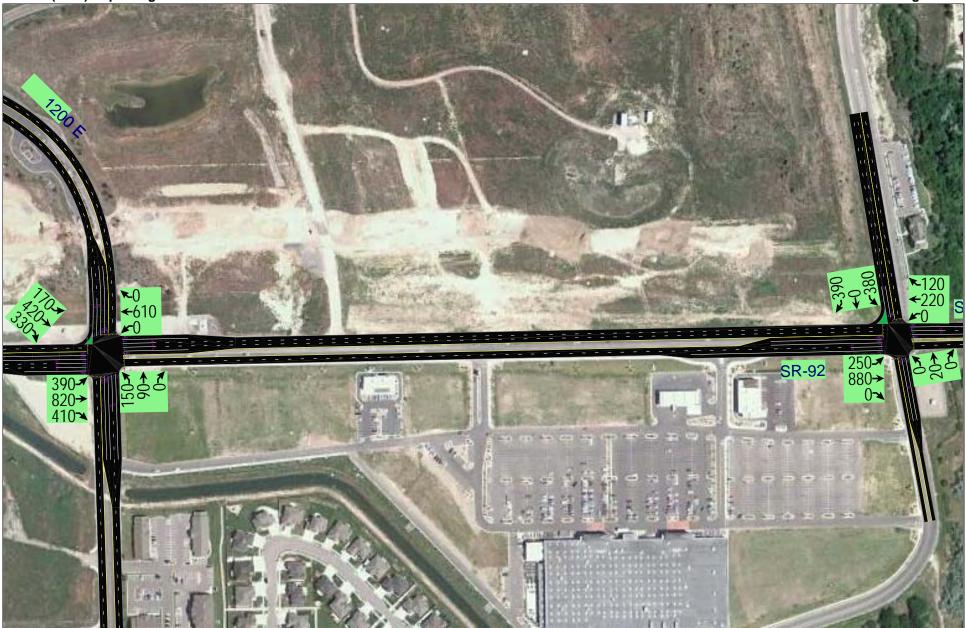
Hales Engineering Lehi, Utah

Lehi Micron TIS
PM Peak Hour
Future (2030) Trip Assignment
Figure 4c



Hales Engineering Lehi, Utah

Lehi Micron TIS
PM Peak Hour
Future (2030) Trip Assignment
Figure 4d



Hales Engineering Lehi, Utah



IV. FUTURE (2020) PLUS PROJECT CONDITIONS

A. Purpose

This section of the report examines the traffic impacts of the proposed project at each of the study intersections during future 2020 conditions. The trips generated by the proposed development were combined with the future 2020 background traffic volumes to create the future plus project conditions. The future plus project scenario evaluates the impacts of the project traffic on the surrounding roadway network assuming Phase I development as discussed in Chapter III of this report. This scenario provides valuable insight into the potential impacts of the proposed project on future background traffic conditions.

B. Traffic Volumes

Trips were assigned to the study intersections based on the trip distribution percentages discussed in Chapter III and permitted intersection turning movements.

The future (2020) plus project weekday p.m. peak hour volumes were generated for the study intersections and are shown in Figure 5.

C. Level of Service Analysis

Using VISSIM, the future 2020 plus project weekday p.m. peak hour LOS were computed for each study intersection. The results of this analysis are reported in Table 5 (see Appendix B for the detailed LOS reports). Multiple runs of VISSIM were used for the analysis to provide a statistical evaluation of the interaction between the intersections. As shown in Table 5, all intersections have acceptable levels of service.



Table 5 Future (2020) Plus Project p.m. Peak Hour Level of Service

| Intersection | | Wor | st Approach | Overall Intersection | | | |
|---|----------|-------------------------|---------------------------------------|----------------------|---------------------------------------|------------------|--|
| Description | Control | Approach ^{1,3} | Aver. Delay (Sec/Veh) ¹ | LOS ¹ | Aver. Delay (Sec/Veh) ² | LOS ² | |
| 1200 West / SR-92 | Signal | - | - | - | 24.6 | С | |
| Traverse Access "D" / SR-92 | Signal | - | - | - | 6.9 | Α | |
| 500 West / SR-92 | Signal | - | - | - | 29.3 | С | |
| Center Street / SR-92 | Signal | - | - | - | 25.3 | С | |
| EB Commuter Lane Off- Ramp / Center Street | EB Yield | EB | 2.8 | Α | - | - | |
| 400 East / SR-92 | Signal | - | - | - | 20.0 | В | |
| 1200 East / SR-92 | Signal | - | - | - | 28.8 | С | |
| Highland Blvd / SR-92 | Signal | - | - | - | 21.6 | С | |

^{1.} This represents the worst approach LOS and delay (seconds / vehicle) and is only reported for non-all-way-stop unsignalized intersections.

Source: Hales Engineering, August 2011

D. Queuing Analysis

Hales Engineering calculated the maximum and average queue lengths for each of the study intersections. The queue reports can be found in Appendix B. No significant queuing issues exist at the study intersections.

E. Mitigation Measures

No mitigation measures are required.

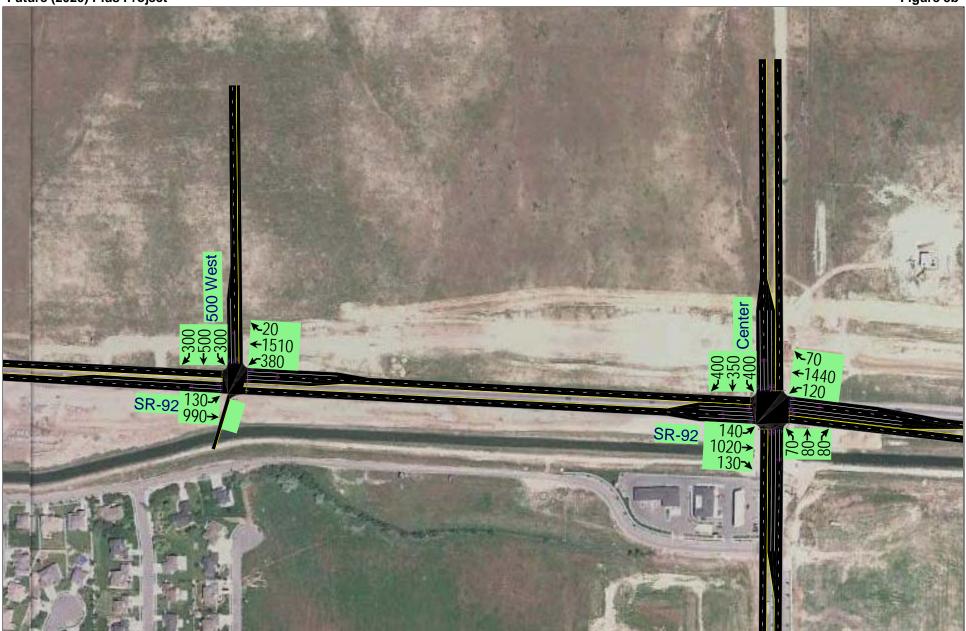
^{2.} This represents the overall intersection LOS and delay (seconds / vehicle)

^{3.} SB = Southbound approach, etc.

Lehi Micron TIS
PM Peak Hour
Future (2020) Plus Project
Figure 5a



Hales Engineering Lehi, Utah

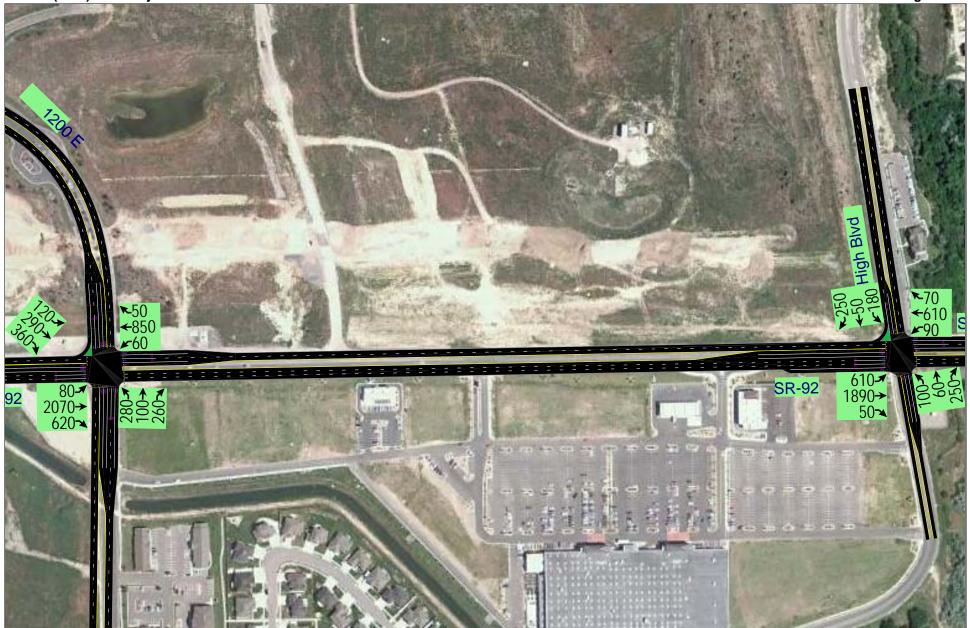


Hales Engineering Lehi, Utah

Lehi Micron TIS
PM Peak Hour
Future (2020) Plus Project
Figure 5c



Hales Engineering Lehi, Utah



Hales Engineering Lehi, Utah



V. FUTURE (2030) BACKGROUND CONDITIONS

A. Purpose

The purpose of the future (2030) background analysis is to study the intersections and roadways during the peak travel periods of the day for future background traffic and geometric conditions. Through this analysis, future background traffic operational deficiencies can be identified and potential mitigation measures recommended.

B. Traffic Volumes

Traffic volumes for the future year 2030 were calculated as discussed in Chapter II. The resulting future 2030 weekday p.m. peak hour traffic volumes are shown in Figure 6.

C. Planned Roadway Improvements

As previously discussed in Chapter II, the following additional improvements to the roadway network were assumed to have occurred by year 2030:

- Year 2030 commuter lane configuration:
 - EB begins between Frontage Road and Triumph Blvd and ends east of 1200 East with an off-ramp at Center Street (directional to southbound Center Street only) and an off-ramp just west of 1200 East onto the eastbound SR-92 arterial. An additional off-ramp is proposed with the project at Center Street (loop ramp directional to northbound Center Street only).
 - WB begins east of Highland Blvd and ends with a ramp directly onto northbound I-15 with an on-ramp west of 1200 East, an on-ramp from southbound Highland Blvd. just north of SR-92, an on-ramp at 500 West, and an off-ramp west of 1200 West.

D. Level of Service Analysis

Using VISSIM, the weekday p.m. peak hour LOS was computed for each study intersection. The results of this analysis are reported in Table 6 (see Appendix B for the detailed LOS reports). Multiple runs of VISSIM were used to provide a statistical evaluation of the interaction between the intersections. These results serve as a baseline condition for the impact analysis of the proposed development during future (2030) conditions. As shown in Table 6, all intersections have acceptable levels of service.



Table 6 Future (2030) Background p.m. Peak Hour Level of Service

| Intersection | | Wor | st Approach | Overall Intersection | | |
|---|----------|-------------------------|---------------------------------------|----------------------|---------------------------------------|------------------|
| Description | Control | Approach ^{1,3} | Aver. Delay (Sec/Veh) ¹ | LOS ¹ | Aver. Delay (Sec/Veh) ² | LOS ² |
| 1200 West / SR-92 | Signal | - | - | - | 32.0 | С |
| Traverse Access "D" / SR-92 | Signal | - | - | - | 8.3 | Α |
| WB CL On-Ramp / 500 West | WB Yield | WB | 2.9 | Α | - | - |
| Center Street / SR-92 | Signal | - | - | - | 13.1 | В |
| EB Commuter Lane Off- Ramp / Center Street | EB Yield | EB | 2.1 | Α | - | - |
| 1200 East / SR-92 | Signal | - | - | - | 29.9 | С |
| Highland Blvd / SR-92 | Signal | - | - | - | 24.3 | С |

^{1.} This represents the worst approach LOS and delay (seconds / vehicle) and is only reported for non-all-way-stop unsignalized intersections.

Source: Hales Engineering, April 2011

E. Queuing Analysis

Hales Engineering calculated the maximum and average queue lengths for each of the study intersections. The queue reports can be found in Appendix B. No significant queuing issues exist.

F. Mitigation Measures

No mitigation measures are recommended.

^{2.} This represents the overall intersection LOS and delay (seconds / vehicle)

^{3.} SB = Southbound approach, etc.

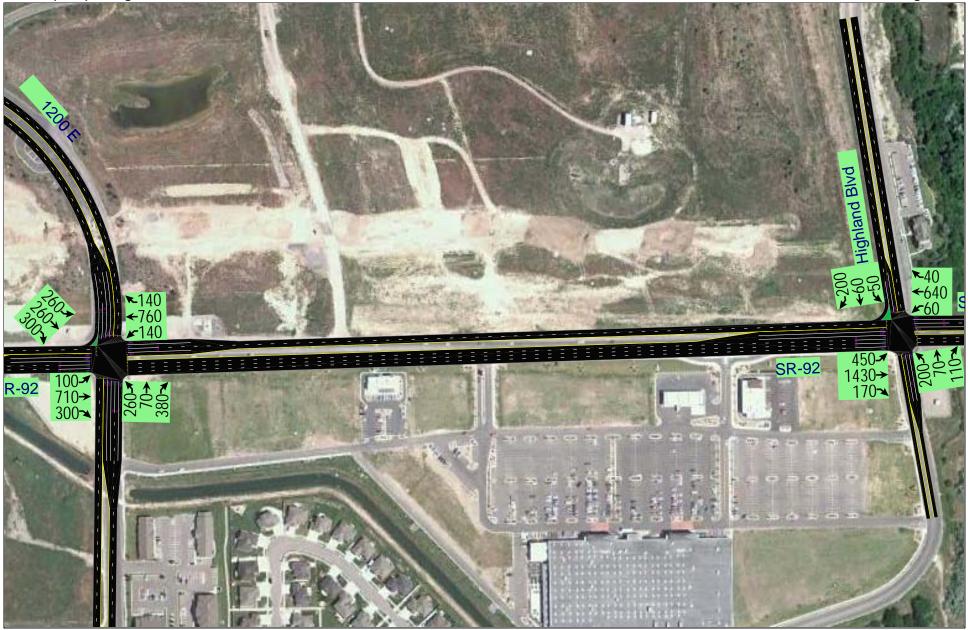
Lehi Micron TIS
PM Peak Hour
Future (2030) Background
Figure 6a



Hales Engineering Lehi, Utah



Hales Engineering Lehi, Utah



Hales Engineering Lehi, Utah



VI. FUTURE (2030) PLUS PROJECT CONDITIONS

A. Purpose

This section of the report examines the traffic impacts of the proposed project at each of the study intersections during future 2030 conditions. The trips generated by the proposed development were combined with the future 2030 background traffic volumes to create the future plus project conditions. The future plus project scenario evaluates the impacts of the project traffic on the surrounding roadway network assuming full build-out as discussed in Chapter III of this report. This scenario provides valuable insight into the potential impacts of the proposed project on future background traffic conditions.

B. Traffic Volumes

Trips were assigned to the study intersections based on the trip distribution percentages discussed in Chapter III and permitted intersection turning movements.

The future (2030) plus project weekday p.m. peak hour volumes were generated for the study intersections and are shown in Figure 7.

C. Level of Service Analysis

Using VISSIM, the future 2030 plus project weekday p.m. peak hour LOS were computed for each study intersection. The results of this analysis are reported in Table 7 (see Appendix B for the detailed LOS reports). Multiple runs of VISSIM were used for the analysis to provide a statistical evaluation of the interaction between the intersections. As shown in Table 7 several study intersections have unacceptable levels of service. Significant queuing also exists, primarily in the westbound direction.



Table 7 Future (2030) Plus Project p.m. Peak Hour Level of Service

| Intersection | | Wor | st Approach | Overall Intersection | | |
|---|----------|-------------------------|---------------------------------------|----------------------|---------------------------------------|------------------|
| Description | Control | Approach ^{1,3} | Aver. Delay (Sec/Veh) ¹ | LOS ¹ | Aver. Delay (Sec/Veh) ² | LOS ² |
| 1200 West / SR-92 | Signal | - | - | - | 54.6 | D |
| Traverse Access "D" / SR-92 | Signal | - | - | - | 7.0 | Α |
| 500 West / SR-92 | Signal | - | - | - | 41.8 | D |
| Center Street / SR-92 | Signal | - | - | - | 68.6 | Е |
| EB Commuter Lane Off- Ramp / Center Street | EB Yield | NB | >50.0 | F | - | - |
| 400 East / SR-92 | Signal | - | - | - | 49.5 | D |
| 1200 East / SR-92 | Signal | - | - | - | 63.8 | Е |
| Highland Blvd / SR-92 | Signal | - | - | - | 42.8 | D |

^{1.} This represents the worst approach LOS and delay (seconds / vehicle) and is only reported for non-all-way-stop unsignalized intersections.

Source: Hales Engineering, August 2011

D. Queuing Analysis

Hales Engineering calculated the maximum and average queue lengths for each of the study intersections. The queue reports can be found in Appendix B. Significant queuing exists in the westbound direction from Highland Blvd to Center Street due to insufficient green time for the westbound flow of traffic.

E. Mitigation Measures

One mitigation measure included in the analysis above was to provide two receiving lanes at 500 West for the westbound commuter lane. This would allow dual left-turn lanes and dual southbound lanes thereby significantly increasing the capacity of the intersection.

^{2.} This represents the overall intersection LOS and delay (seconds / vehicle).

^{3.} SB = Southbound approach, etc.



Even with this improvement in place, there is insufficient capacity for the westbound flow of traffic on SR-92. Additional improvements may be required such as widening SR-92 from the planned five-lane arterial to a seven-lane arterial.

F. Timeline of Improvements

Hales Engineering has estimated the approximate trigger points that would require the background and plus project improvements based on percentage of overall development. However, there are numerous variables that will affect the exact timing of the improvements such as changes in land use and the actual growth in background traffic. Detailed assumptions for phasing of the development are found in Appendix E. As some of these improvements could be very expensive, it is recommended that additional analysis be completed closer to the actual time that the improvements are to be constructed.

The improvements are recommended as follows (based on p.m. peak hour conditions):

- Westbound Commuter Lane On-Ramp at 500 West:
 - The on-ramp should be constructed between 2016 and 2020 (25 percent of overall project completion)
- Provide two receiving lanes at 500 West for the westbound commuter lane. This would allow dual left-turn lanes and dual southbound lanes thereby significantly increasing the capacity of the intersection
 - This improvement should be constructed between 2021 and 2025 (at approximately 50 percent of overall project completion)
- Eastbound Commuter Lane Off-Ramp Loop Ramp to Northbound Center Street:
 - This loop ramp should be constructed between 2021 and 2025 (at approximately 50 percent of overall project completion). This recommendation is based on a high eastbound to northbound left-turn volume during the a.m. peak period as commuters enter the Micron development from the west. The dual left-turn lanes on the arterial will become oversaturated thereby requiring the capacity of the commuter lanes and the new loop ramp. Hales Engineering is currently conducting a traffic study to refine the analysis for this Center Street / SR-92 area because a.m. conditions were not analyzed for this TIS.
- Cross Access from Micron to IMFT (East and West Sides)
 - Cross access would have an immediate benefit once retail, restaurant, and other service land uses begin operation in the Micron development.
 - Based on traffic operations, the cross access should be constructed by at least year 2015 as this is when the social heart portion of the project is anticipated to begin.
 - Significant use of cross access from the east portion of the Micron development through IMFT will be required at approximately year 2025.



- Right- and left-turn deceleration lanes are required for each new access (at 500 West, Center Street, and 400 East).
 - o These auxiliary lanes should be constructed simultaneously with the new accesses.
- Appendix D shows the recommended cross section widths for roads internal to the Micron development. All internal streets identified as larger than a local cross section should be constructed to their full width when originally constructed. The difference between the local cross section width and the full width will be reimbursed by Lehi City.
- Potential future signal locations internal to the site are also shown in Appendix D. These signals should be installed once warrants are met, or in anticipation of warrants being met. However, based on the estimated phasing of the project, the following is an estimated timeframe for when the signals may be warranted:
 - o 2016 to 2020 (25% Build):
 - First signal north of SR-92 on Center Street
 - First signal north of SR-92 on 400 East
 - o 2021 to 2025 (50% Build):
 - First signal north of SR-92 on 500 West
 - Second signal north of SR-92 on Center Street
 - 2026 to 2030 (75% Build):
 - Signal at east IMFT border

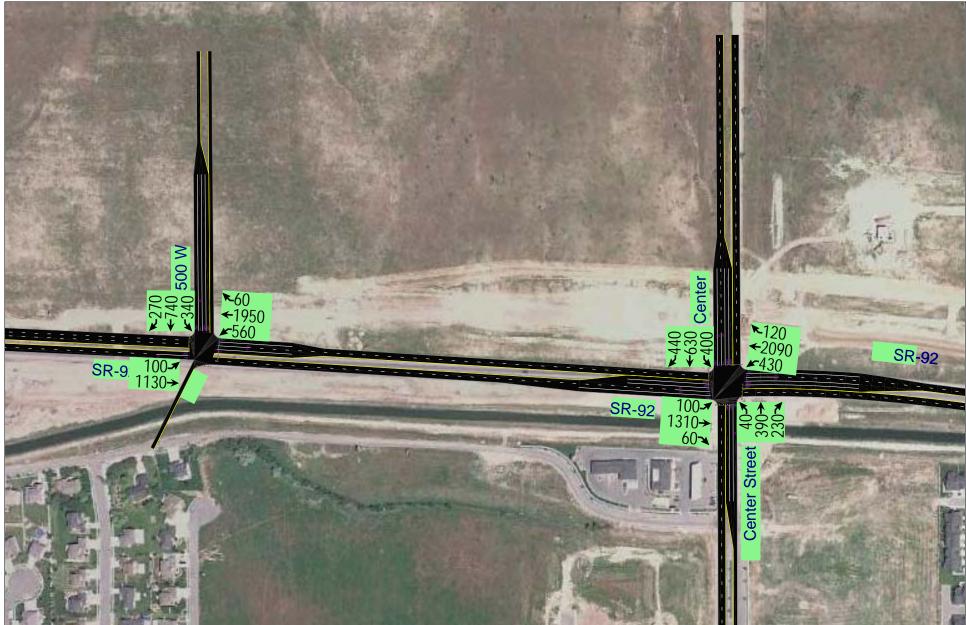
The percentages of overall development are based on trips of each land use as outlined in Table 3 and 4 (see Chapter III).

Lehi Micron TIS
PM Peak Hour
Future (2030) Plus Project
Figure 7a



Hales Engineering Lehi, Utah

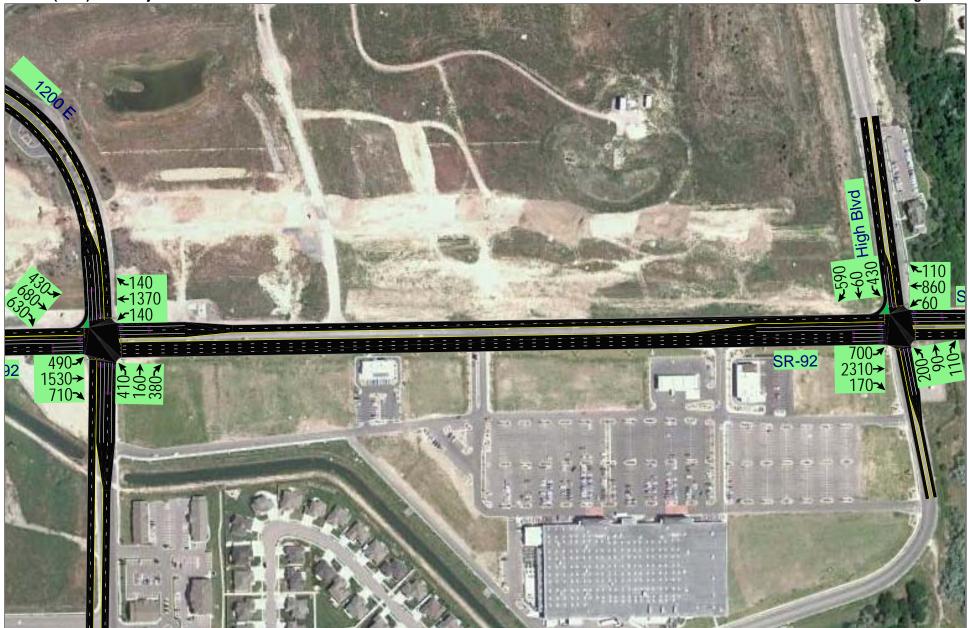
Lehi Micron TIS
PM Peak Hour
Future (2030) Plus Project
Figure 7b



Hales Engineering Lehi, Utah 801-766-4343 8/30/2011



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Hales Engineering Lehi, Utah



VII. ACCESS MANAGEMENT

A. Purpose

This section of the report provides general guidelines and principals regarding access management for this development. It is recommended that as smaller parcels of the project are designed and constructed that individual traffic impact studies be completed to analyze safety and operational issues relating to access at the individual parcel level.

B. Shared Access

Individual parcels should be master planned to provide cross access between developments, specifically in areas of mixed use and along busy streets. This has the following benefits:

- Trips between individual parcels can be accomplished without affecting the adjacent roadway. This can reduce delay and improve safety along the major corridors.
- Secondary access can be provided which increases opportunities for public safety vehicles to have access in emergency situations.
- Multiple ingress/egress opportunities minimize delay as optimal routes can be chosen for vehicle travel. Having cross access allows vehicles to enter/exit multiple sites at the best location.
- Cross access prevents "cul-de-sacs" from occurring which concentrates all traffic at one location.

Cross access should also include pedestrian connectivity between parcels which reduces vehicle trips and prevents damage to landscaping.

C. Access Spacing

Direct access to commercial developments should be minimized on major arterials, specifically in close proximity to major intersections (such as SR-92 and other arterial intersections). Single family residential access should be limited to local streets (and minor collectors if possible). Multi-family residential access should be provided on collector streets (and local streets for secondary access).

Street spacing on the arterial streets and major collectors should be 660 feet. On minor collectors, street spacing can be as short as 330 feet. Street intersections on local streets should line up; however, if they are offset it should be by at least 150 feet.

Commercial access to minor arterial and major collectors should be limited to 330 feet. Commercial access to major arterials should be limited to right-in/right-out access, if possible.



D. Signalized Intersection Spacing

Intersections should only be signalized after meeting warrants as outlined in the latest version of the Manual on Uniform Traffic Control Devices (MUTCD). However, it is wise to plan future locations so that appropriate spacing will exist once the intersections become signalized. UDOT typically considers one-half mile the appropriate spacing for signalized intersections, and longer spacing for higher functioning roads. A corridor agreement is currently in place outlining all future signalized intersections locations on SR-92 (see Appendix F). However, in an urbanized core area where access is more important than movement of through traffic, such as in the "social heart" area of the Micron development, shorter signalized intersection spacing is appropriate (one-quarter mile). While more signals increases delay and reduces travel speeds, they provide better side-street access and provide a more pedestrian-friendly area as long out-of-direction travel is not required for pedestrians to cross busy streets. Therefore, Hales Engineering recommends signalized intersections spacing as warranted at or near one-quarter mile.

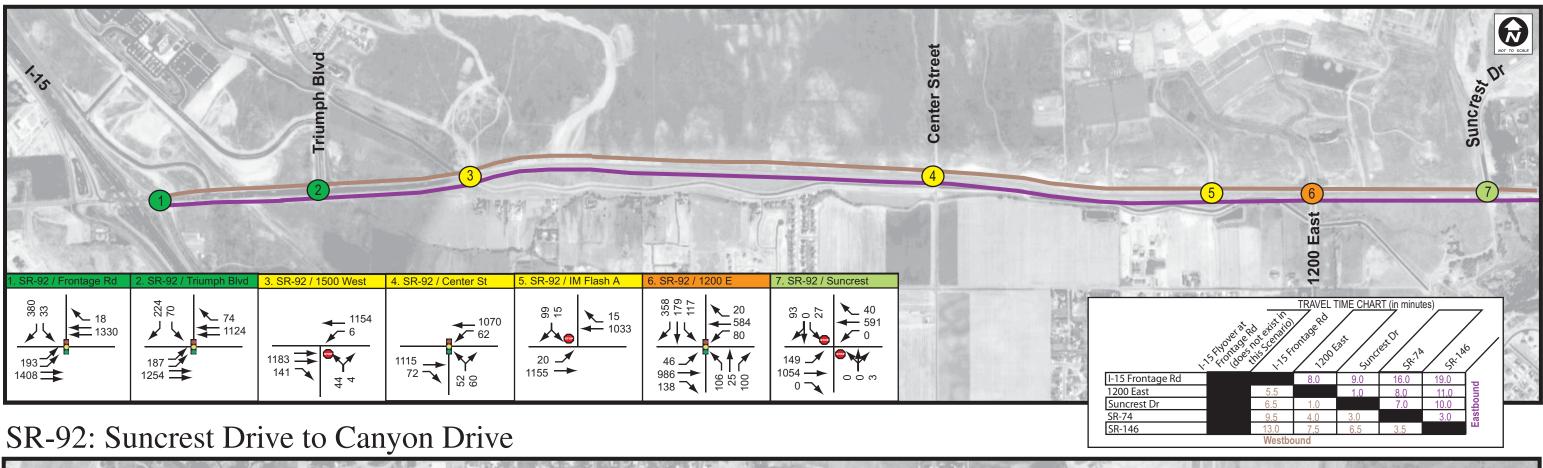
Appendix D shows potential signalized intersections locations based on anticipated future ADT values.



APPENDIX A

Turning Movement Counts

SR-92: I-15 to Suncrest Drive



LEGEND Signalized intersection Level of Service Stop sign LOS A XX p.m. peak hour LOS B traffic volume LOS C Eastbound lanes LOS D Westbound lanes 343 583 197 LOS E 4.9 Travel times LOS F





APPENDIX B

LOS & Queue Length Reports



Project: Lehi-Micron TIS
Analysis Period: 2020-Background

Time Period: PM Project #: UT-263

Intersection: 1200 West Type: Signalized

| Approach | Movement | Volume | Qı | ieue | Do | elay/Veh (sec) | |
|----------|----------|--------|-----|------|------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | Los |
| | L | 162 | 125 | 31 | 52.8 | 3.0 | D |
| NB | Т | 39 | 82 | 11 | 54.2 | 4.9 | D |
| IND | R | 136 | 81 | 4 | 8.9 | 0.9 | Α |
| | Subtotal | 337 | | | 35.2 | | D |
| | L | 61 | 115 | 18 | 56.4 | 4.6 | Ε |
| SB | Т | 76 | 132 | 23 | 56.7 | 5.8 | Ε |
| OB | R | 101 | 73 | 5 | 11.9 | 1.9 | В |
| | Subtotal | 238 | | | 37.6 | | D |
| | L | 155 | 132 | 28 | 52.7 | 3.6 | D |
| EB | Т | 555 | 258 | 26 | 17.3 | 1.7 | В |
| | R | 350 | 310 | 15 | 10.4 | 1.3 | В |
| | Subtotal | 1,060 | | | 20.2 | | С |
| | L | 222 | 139 | 25 | 31.6 | 1.9 | С |
| WB | Т | 693 | 191 | 26 | 13.7 | 1.6 | В |
| *** | R | 64 | 56 | 1 | 5.2 | 0.9 | Α |
| | Subtotal | 979 | | | 17.2 | | В |
| Total | | 2,614 | | | 22.6 | 0.6 | С |



Project: **Lehi-Micron TIS** Analysis Period: 2020-Background

Time Period: PM Project #: UT-263

Intersection: **Traverse D** Type: Signalized

| Approach | Movement | Volume | Qı | ueue | D | elay/Veh (sec) | |
|----------|----------|--------|-----|------|------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 39 | 79 | 9 | 45.8 | 4.9 | D |
| SB | R | 59 | 51 | 2 | 10.3 | 1.2 | В |
| | Subtotal | 98 | | | 24.4 | | С |
| | L | 58 | 66 | 1 | 10.8 | 1.6 | В |
| EB | Т | 692 | 131 | 5 | 3.5 | 0.6 | Α |
| | Subtotal | 750 | | | 4.0 | | Α |
| | Т | 919 | 292 | 15 | 6.9 | 8.0 | Α |
| WB | R | 20 | 23 | 0 | 2.1 | 0.3 | Α |
| | Subtotal | 939 | | | 6.8 | | Α |
| Total | | 1,788 | | | 6.6 | 0.6 | Α |



Project: Lehi-Micron TIS
Analysis Period: 2020-Background

Time Period: PM Project #: UT-263

Intersection: Center St Type: Signalized

| . , po. | | oigiiaii=oa | | | _ | | | |
|----------|----------|-------------|-----|-------|------|-----------------|-----|--|
| Approach | Movement | Volume | Qı | Queue | | Delay/Veh (sec) | | |
| | | | Max | Avg | Avg | St Dev | LOS | |
| | L | 68 | 72 | 16 | 52.1 | 3.9 | D | |
| NB | R | 80 | 69 | 3 | 9.0 | 1.6 | Α | |
| | Subtotal | 148 | | | 28.8 | | С | |
| | Т | 606 | 127 | 9 | 5.7 | 8.0 | Α | |
| EB | R | 125 | 51 | 1 | 2.7 | 0.4 | Α | |
| | Subtotal | 731 | | | 5.2 | | Α | |
| | L | 115 | 99 | 22 | 49.0 | 1.4 | D | |
| WB | Т | 871 | 104 | 4 | 2.2 | 0.3 | Α | |
| | Subtotal | 986 | | | 7.7 | | Α | |
| Total | | 1,865 | | | 8.4 | 0.5 | Α | |



Project: **Lehi-Micron TIS** Analysis Period: 2020-Background

Time Period: PM Project #: UT-263

Intersection: 1200 East Type: Signalized

| Approach | Movement | Volume | Qı | ieue | De | elay/Veh (sec) | |
|----------|----------|--------|-----|------|------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 175 | 143 | 37 | 53.1 | 4.3 | D |
| NB | Т | 85 | 81 | 14 | 45.9 | 4.6 | D |
| ND | R | 260 | 221 | 35 | 25.8 | 3.0 | С |
| | Subtotal | 519 | | | 38.3 | | D |
| | L | 119 | 110 | 26 | 54.2 | 5.5 | D |
| SB | Т | 178 | 133 | 29 | 48.6 | 2.1 | D |
| | Subtotal | 297 | | | 50.8 | | D |
| | L | 83 | 88 | 19 | 58.8 | 6.9 | Ε |
| EB | Т | 1,173 | 355 | 52 | 16.0 | 1.1 | В |
| | R | 213 | 90 | 3 | 5.6 | 0.4 | Α |
| | Subtotal | 1,469 | | | 16.9 | | В |
| | L | 63 | 80 | 20 | 76.7 | 6.8 | Ε |
| WB | Т | 665 | 179 | 13 | 7.3 | 0.7 | Α |
| VVD | R | 51 | 30 | 0 | 2.3 | 0.6 | Α |
| | Subtotal | 779 | | | 12.5 | | В |
| SWB | R | 363 | 8 | 0 | 0.5 | 0.0 | Α |
| OVVD | Subtotal | 363 | | | 0.5 | | Α |
| Total | | 3,426 | | | 20.4 | 0.6 | С |



Project: **Lehi-Micron TIS** Analysis Period: 2020-Background

Time Period: PM Project #: UT-263

Intersection: **Highland Blvd** Type: Signalized

| Type. | | Signalizeu | | | | | |
|----------|----------|------------|-----|------|------|----------------|-----|
| Approach | Movement | Volume | Qı | ueue | D | elay/Veh (sec) | |
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 101 | 137 | 24 | 46.1 | 2.6 | D |
| NB | Т | 57 | 102 | 14 | 50.1 | 3.8 | D |
| ND | R | 251 | 196 | 18 | 16.8 | 1.4 | В |
| | Subtotal | 408 | | | 28.7 | | С |
| | L | 176 | 221 | 39 | 40.8 | 2.3 | D |
| SB | Т | 51 | 107 | 11 | 41.1 | 5.7 | D |
| | Subtotal | 227 | | | 40.8 | | D |
| | L | 404 | 232 | 73 | 57.7 | 1.4 | Ε |
| EB | Т | 1,100 | 300 | 69 | 31.1 | 1.5 | С |
| LD | R | 46 | 318 | 76 | 9.0 | 2.3 | Α |
| | Subtotal | 1,550 | | | 37.3 | | D |
| | L | 88 | 148 | 26 | 55.0 | 4.7 | D |
| WB | Т | 463 | 203 | 37 | 27.7 | 1.2 | С |
| WB | R | 68 | 54 | 2 | 5.7 | 0.9 | Α |
| | Subtotal | 620 | | | 29.2 | | С |
| SWB | R | 214 | 0 | 0 | 0.5 | 0.1 | Α |
| CVVD | Subtotal | 214 | | | 0.5 | | Α |
| Total | · | 3,019 | | | 32.1 | 0.7 | С |



Project: Lehi-Micron TIS
Analysis Period: 2020-Background

Time Period: PM Project #: UT-263

Intersection: EB CL Off-Ramp Center

Type: Unsignalized

| Approach | Movement | Volume | Q | ueue | Delay/Veh (sec) | | |
|----------|----------|--------|-----|------|-----------------|--------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | Т | 68 | 0 | 0 | 0.3 | 0.1 | Α |
| NB | T2 | 80 | 0 | 0 | 0.4 | 0.1 | Α |
| | Subtotal | 148 | | | 0.3 | | Α |
| SB | Т | 240 | 0 | 0 | 0.1 | 0.0 | Α |
| OB | Subtotal | 240 | | | 0.1 | | Α |
| SEB | R | 99 | 38 | 0 | 1.6 | 0.2 | Α |
| SLB | Subtotal | 99 | | | 1.6 | | Α |
| Total | | 487 | | | 0.4 | 0.1 | Α |



Project: Lehi - Micron TIS

Analysis Period: 2020 - Plus Project

Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: UT11-263

Intersection: 1200 West Type: Signalized

| Approach | Movement | Volume | Qı | leue | De | elay/Veh (sec) | |
|----------|----------|--------|-----|------|------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 160 | 130 | 32 | 54.6 | 2.5 | D |
| NB | Т | 39 | 91 | 11 | 57.1 | 5.2 | Ε |
| INB | R | 179 | 125 | 11 | 14.1 | 1.5 | В |
| | Subtotal | 378 | | | 35.6 | | D |
| | L | 79 | 145 | 25 | 59.0 | 4.3 | Ε |
| SB | Т | 76 | 140 | 23 | 57.8 | 1.8 | Ε |
| OB | R | 102 | 112 | 11 | 22.9 | 4.0 | С |
| | Subtotal | 257 | | | 44.4 | | D |
| | L | 154 | 151 | 29 | 56.9 | 3.6 | Ε |
| EB | Т | 860 | 498 | 63 | 25.5 | 2.0 | С |
| | R | 346 | 242 | 19 | 13.6 | 1.5 | В |
| | Subtotal | 1,361 | | | 26.0 | | С |
| | L | 388 | 327 | 59 | 51.1 | 0.9 | D |
| WB | Т | 1,264 | 479 | 24 | 9.4 | 1.2 | Α |
| *** | R | 116 | 49 | 0 | 5.3 | 1.2 | Α |
| | Subtotal | 1,768 | | | 18.3 | | В |
| Total | | 3,764 | | | 24.6 | 0.7 | С |



Project: Lehi - Micron TIS

Analysis Period: 2020 - Plus Project

Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: *UT11-263*

Intersection: Traverse D Type: Signalized

| Approach | Movement | Volume | Qı | ieue | D | elay/Veh (sec) | |
|----------|----------|--------|-----|------|------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 49 | 100 | 13 | 51.2 | 3.4 | D |
| SB | R | 58 | 76 | 6 | 21.6 | 4.9 | С |
| | Subtotal | 107 | | | 35.1 | | С |
| | L | 59 | 84 | 3 | 19.1 | 3.0 | В |
| EB | Т | 1,057 | 151 | 6 | 2.8 | 0.2 | Α |
| | Subtotal | 1,116 | | | 3.6 | | Α |
| | Т | 1,709 | 529 | 29 | 7.4 | 1.0 | Α |
| WB | R | 81 | 45 | 0 | 4.0 | 0.6 | Α |
| | Subtotal | 1,790 | | | 7.2 | | Α |
| Total | | 3,013 | | | 6.9 | 0.6 | Α |



Project #: *UT11-263*

VISSIM Level of Service Report

Project: **Lehi - Micron TIS Analysis Period:** 2020 - Plus Project Time Period: P.M. Peak Hour

Intersection: 500 West Type: Signalized

| Approach | Movement | Volume | Qı | ieue | De | elay/Veh (sec) | |
|----------|----------|--------|-----|------|------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 300 | 180 | 37 | 40.0 | 2.6 | D |
| SB | R | 298 | 292 | 44 | 29.7 | 3.1 | С |
| OB OB | R2 | 500 | 898 | 159 | 50.6 | 3.1 | D |
| | Subtotal | 1,098 | | | 42.0 | | D |
| | L | 132 | 240 | 64 | 90.7 | 36.6 | F |
| EB | Т | 968 | 516 | 55 | 19.8 | 1.3 | В |
| | Subtotal | 1,100 | | | 28.3 | | С |
| | L | 375 | 590 | 73 | 34.5 | 3.7 | С |
| WB | Т | 1,492 | 542 | 85 | 19.4 | 1.2 | В |
| " | R | 18 | 37 | 1 | 12.1 | 3.0 | В |
| | Subtotal | 1,885 | | | 22.3 | | С |
| Total | | 4,083 | | | 29.3 | 1.9 | С |



Project: Lehi - Micron TIS

Analysis Period: 2020 - Plus Project

Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: UT11-263

Intersection: Center St Type: Signalized

| Approach | Movement | Volume | Qı | ieue | D. | elay/Veh (sec) | |
|----------|----------|--------|-----|------|------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 68 | 82 | 19 | 66.9 | 13.6 | Ε |
| NB | Т | 80 | 107 | 20 | 52.6 | 2.2 | D |
| ND | R | 81 | 105 | 17 | 15.8 | 2.2 | В |
| | Subtotal | 228 | | | 43.8 | | D |
| | L | 403 | 272 | 74 | 57.6 | 2.9 | Ε |
| SB | Т | 353 | 199 | 49 | 44.9 | 1.3 | D |
| SB | R | 393 | 384 | 72 | 40.3 | 3.5 | D |
| | Subtotal | 1,148 | | | 47.8 | | D |
| | L | 132 | 120 | 23 | 47.6 | 7.3 | D |
| EB | Т | 1,003 | 369 | 50 | 17.3 | 1.9 | В |
| LD | R | 128 | 92 | 2 | 5.7 | 1.0 | Α |
| | Subtotal | 1,263 | | | 19.3 | | В |
| | L | 118 | 101 | 36 | 88.2 | 2.2 | F |
| WB | Т | 1,428 | 189 | 17 | 5.3 | 1.0 | Α |
| " | R | 67 | 17 | 0 | 2.3 | 0.6 | Α |
| | Subtotal | 1,612 | | | 11.2 | | В |
| Total | | 4,250 | | | 25.3 | 8.0 | С |



Project: Lehi - Micron TIS

Analysis Period: 2020 - Plus Project

Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: UT11-263

Intersection: 400 East Type: Signalized

| Approach | Movement | Volume | Queue | | Delay/Veh (sec) | | |
|----------|----------|--------|-------|-----|-----------------|--------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| SB | L | 591 | 855 | 285 | 54.5 | 6.2 | D |
| | R | 551 | 0 | 0 | 15.8 | 4.0 | В |
| | Subtotal | 1,143 | | | 35.8 | | D |
| | L | 109 | 180 | 41 | 68.1 | 10.9 | Ε |
| EB | Т | 1,381 | 0 | 0 | 0.4 | 0.1 | Α |
| | Subtotal | 1,490 | | | 5.4 | | Α |
| WB | Т | 1,062 | 520 | 82 | 24.0 | 1.0 | С |
| | R | 202 | 58 | 0 | 16.1 | 1.7 | В |
| | Subtotal | 1,264 | | | 22.8 | | С |
| Total | | 3,897 | | | 20.0 | 1.6 | В |



Project: Lehi - Micron TIS

Analysis Period: 2020 - Plus Project

Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: *UT11-263*

Intersection: 1200 East Type: Signalized

| Approach | Movement | Volume | Qı | ieue | Delay/Veh (sec) | | |
|----------|----------|--------|-----|------|-----------------|--------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| NB | L | 283 | 181 | 53 | 55.1 | 1.9 | Ε |
| | Т | 102 | 90 | 16 | 43.9 | 4.9 | D |
| ND | R | 255 | 184 | 19 | 23.2 | 1.6 | С |
| | Subtotal | 640 | | | 40.6 | | D |
| | L | 121 | 111 | 30 | 65.6 | 5.2 | Ε |
| SB | Т | 282 | 176 | 47 | 51.3 | 2.9 | D |
| | Subtotal | 402 | | | 55.6 | | Ε |
| | L | 81 | 89 | 17 | 69.5 | 7.4 | Ε |
| EB | Т | 2,062 | 781 | 169 | 31.9 | 2.9 | С |
| LD | R | 613 | 448 | 27 | 19.1 | 2.9 | В |
| | Subtotal | 2,756 | | | 30.2 | | С |
| | L | 60 | 78 | 16 | 64.5 | 4.1 | Ε |
| WB | Т | 824 | 222 | 31 | 13.5 | 1.1 | В |
| VVD | R | 47 | 45 | 0 | 4.1 | 8.0 | Α |
| | Subtotal | 931 | | | 16.3 | | В |
| SWB | R | 368 | 11 | 0 | 0.5 | 0.1 | Α |
| | Subtotal | 368 | | | 0.5 | | Α |
| Total | | 5,097 | | | 28.8 | 1.5 | С |



Lehi - Micron TIS Project: **Analysis Period:** 2020 - Plus Project

Time Period: P.M. Peak Hour Project #: *UT11-263*

Intersection: **Highland Blvd** Signalized Type:

| Approach | Movement | Volume | Q | ueue | Delay/Veh (sec) | | |
|----------|----------|--------|-----|------|-----------------|--------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| NB | L | 100 | 164 | 26 | 51.3 | 3.6 | D |
| | Т | 57 | 133 | 16 | 55.0 | 5.3 | D |
| NB | R | 250 | 259 | 31 | 24.8 | 3.1 | С |
| | Subtotal | 407 | | | 35.6 | | D |
| | L | 172 | 215 | 44 | 46.5 | 3.0 | D |
| SB | Т | 50 | 102 | 11 | 44.5 | 5.3 | D |
| | Subtotal | 222 | | | 46.0 | | D |
| | L | 615 | 239 | 47 | 26.6 | 0.9 | С |
| EB | Т | 1,717 | 238 | 43 | 12.7 | 0.7 | В |
| LD | R | 107 | 256 | 45 | 4.1 | 0.9 | Α |
| | Subtotal | 2,438 | | | 15.8 | | В |
| | L | 81 | 146 | 27 | 61.6 | 4.7 | Ε |
| WB | Т | 574 | 259 | 54 | 31.9 | 1.0 | С |
| VVD | R | 64 | 57 | 2 | 8.7 | 1.6 | Α |
| | Subtotal | 719 | | | 33.2 | | С |
| SWB | R | 259 | 0 | 0 | 0.6 | 0.1 | Α |
| SVVD | Subtotal | 259 | | | 0.6 | | Α |
| Total | | 4,045 | | | 21.6 | 0.5 | С |



Project: Lehi - Micron TIS
Analysis Period: 2020 - Plus Project
Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: UT11-263

Intersection: EB CL Off-Ramp Center

Type: Unsignalized

| Approach | Movement | Volume | Queue | | Delay/Veh (sec) | | |
|----------|----------|--------|-------|-----|-----------------|--------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| NB | Т | 67 | 0 | 0 | 0.5 | 0.1 | Α |
| | T2 | 161 | 0 | 0 | 0.5 | 0.1 | Α |
| | Subtotal | 228 | | | 0.5 | | Α |
| SB | Т | 598 | 0 | 0 | 0.0 | 0.0 | Α |
| 35 | Subtotal | 598 | | | 0.0 | | Α |
| SEB | R | 99 | 53 | 1 | 2.8 | 0.5 | Α |
| | Subtotal | 99 | | | 2.8 | | Α |
| Total | | 925 | | | 0.4 | 0.1 | Α |



Project: Lehi-Micron TIS
Analysis Period: 2030-Background

Time Period: PM Project #: UT-263

Intersection: 1200 West Type: Signalized

| Approach | Movement | Volume | Qı | ieue | Delay/Veh (sec) | | | |
|----------|----------|--------|-----|------|-----------------|--------|-----|--|
| | | | Max | Avg | Avg | St Dev | LOS | |
| NB | L | 372 | 240 | 63 | 52.4 | 2.5 | D | |
| | Т | 71 | 131 | 17 | 47.3 | 3.9 | D | |
| ND | R | 215 | 144 | 12 | 13.3 | 1.1 | В | |
| | Subtotal | 657 | | | 39.1 | | D | |
| | L | 81 | 157 | 25 | 58.0 | 5.6 | Ε | |
| SB | Т | 124 | 174 | 37 | 54.2 | 3.1 | D | |
| OB | R | 103 | 80 | 5 | 11.5 | 1.2 | В | |
| | Subtotal | 308 | | | 40.9 | | D | |
| | L | 155 | 134 | 30 | 62.2 | 4.6 | Ε | |
| EB | Т | 631 | 324 | 41 | 26.6 | 1.2 | С | |
| | R | 677 | 800 | 93 | 26.3 | 2.3 | С | |
| | Subtotal | 1,463 | | | 30.2 | | С | |
| | L | 328 | 269 | 61 | 58.4 | 7.3 | Ε | |
| WB | Т | 556 | 209 | 16 | 11.6 | 1.0 | В | |
| VVD | R | 85 | 61 | 1 | 4.4 | 8.0 | Α | |
| | Subtotal | 968 | | | 26.8 | | С | |
| Total | | 3,396 | | | 32.0 | 1.2 | С | |



Project: Lehi-Micron TIS
Analysis Period: 2030-Background

Time Period: PM Project #: UT-263

Intersection: Traverse D
Type: Signalized

| Approach | Movement | Volume | Queue | | D | Delay/Veh (sec) | | |
|----------|----------|--------|-------|-----|------|-----------------|-----|--|
| | | | Max | Avg | Avg | St Dev | LOS | |
| | L | 39 | 79 | 9 | 43.0 | 4.7 | D | |
| SB | R | 60 | 51 | 2 | 9.8 | 1.8 | Α | |
| | Subtotal | 98 | | | 22.9 | | С | |
| | L | 61 | 53 | 1 | 8.6 | 2.2 | Α | |
| EB | Т | 865 | 132 | 7 | 3.5 | 0.4 | Α | |
| | Subtotal | 926 | | | 3.9 | | Α | |
| | Т | 909 | 371 | 30 | 11.3 | 1.6 | В | |
| WB | R | 20 | 25 | 0 | 2.8 | 0.8 | Α | |
| | Subtotal | 929 | | | 11.1 | | В | |
| Total | | 1,953 | | | 8.3 | 0.9 | Α | |



Project: **Lehi-Micron TIS** Analysis Period: 2030-Background

Time Period: PM Project #: UT-263

Intersection: 500 West Type: Signalized

| Approach | Movement | Volume | Queue | | Delay/Veh (sec) | | |
|----------|----------|--------|-------|-----|-----------------|--------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| EB | Т | 904 | 53 | 0 | 0.3 | 0.2 | Α |
| LD | Subtotal | 904 | | | 0.3 | | Α |
| | L | 38 | 45 | 0 | 2.9 | 0.8 | Α |
| WB | Т | 932 | 0 | 0 | 0.2 | 0.0 | Α |
| | Subtotal | 969 | | | 0.3 | | Α |
| Total | | 1,873 | | | 0.3 | 0.1 | Α |



Project: **Lehi-Micron TIS** Analysis Period: 2030-Background

Time Period: PM Project #: UT-263

Intersection: **Center St** Type: Signalized

| Approach | Movement | Volume | Queue | | D | Delay/Veh (sec) | | |
|----------|----------|--------|-------|-----|------|-----------------|-----|--|
| | | | Max | Avg | Avg | St Dev | LOS | |
| | L | 38 | 66 | 10 | 53.6 | 7.0 | D | |
| NB | R | 160 | 107 | 9 | 12.0 | 1.2 | В | |
| | Subtotal | 198 | | | 19.9 | | В | |
| | Т | 847 | 233 | 21 | 9.0 | 1.2 | Α | |
| EB | R | 52 | 46 | 1 | 3.4 | 0.7 | Α | |
| | Subtotal | 899 | | | 8.7 | | Α | |
| | L | 228 | 166 | 36 | 46.3 | 2.9 | D | |
| WB | Т | 931 | 301 | 17 | 7.8 | 0.9 | Α | |
| | Subtotal | 1,159 | | | 15.4 | | В | |
| Total | · | 2,257 | | | 13.1 | 0.7 | В | |



Project: Lehi-Micron TIS
Analysis Period: 2030-Background

Time Period: PM Project #: UT-263

Intersection: 1200 East Type: Signalized

| туре: | | Signalized | | | | | |
|----------|----------|------------|-----|------|------|----------------|-----|
| Approach | Movement | Volume | Qı | ieue | Do | elay/Veh (sec) | |
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 252 | 173 | 49 | 54.2 | 2.7 | D |
| NB | Т | 74 | 71 | 13 | 48.3 | 5.2 | D |
| IND | R | 385 | 324 | 52 | 25.3 | 2.1 | С |
| | Subtotal | 710 | | | 37.9 | | D |
| | L | 255 | 182 | 48 | 54.2 | 4.3 | D |
| SB | Т | 258 | 170 | 39 | 46.9 | 2.4 | D |
| | Subtotal | 513 | | | 50.5 | | D |
| | L | 103 | 103 | 22 | 54.9 | 4.3 | D |
| EB | Т | 700 | 345 | 48 | 24.0 | 1.0 | С |
| LD | R | 299 | 203 | 12 | 10.2 | 1.2 | В |
| | Subtotal | 1,102 | | | 23.1 | | С |
| | L | 140 | 120 | 33 | 64.7 | 1.7 | Ε |
| WB | Т | 745 | 335 | 60 | 27.4 | 1.8 | С |
| VVB | R | 142 | 109 | 5 | 9.5 | 1.8 | Α |
| | Subtotal | 1,026 | | | 30.0 | | С |
| SWB | R | 308 | 4 | 0 | 0.5 | 0.0 | Α |
| OVVD | Subtotal | 308 | | | 0.5 | | Α |
| Total | | 3,658 | | | 29.9 | 0.6 | С |



Project: **Lehi-Micron TIS** Analysis Period: 2030-Background

Time Period: PM Project #: UT-263

Intersection: **Highland Blvd** Type: Signalized

| i ype. | | Signalizeu | | | | | |
|----------|----------|------------|-----|------|------|----------------|-----|
| Approach | Movement | Volume | Qı | ieue | De | elay/Veh (sec) | |
| | | | Max | Avg | Avg | St Dev | LOS |
| NB | L | 199 | 322 | 53 | 48.6 | 3.5 | D |
| | Т | 69 | 112 | 13 | 41.2 | 4.4 | D |
| IND IND | R | 112 | 100 | 8 | 17.9 | 1.3 | В |
| | Subtotal | 379 | | | 38.2 | | D |
| | L | 50 | 94 | 13 | 50.4 | 5.5 | D |
| SB | Т | 59 | 116 | 17 | 53.5 | 4.5 | D |
| | Subtotal | 110 | | | 52.1 | | D |
| | L | 456 | 246 | 58 | 40.3 | 2.4 | D |
| EB | Т | 1,409 | 263 | 46 | 15.9 | 0.7 | В |
| | R | 172 | 280 | 51 | 5.6 | 0.7 | Α |
| | Subtotal | 2,036 | | | 20.5 | | С |
| | L | 57 | 117 | 18 | 61.4 | 5.3 | Ε |
| WB | Т | 634 | 270 | 53 | 28.5 | 1.8 | С |
| W B | R | 42 | 46 | 1 | 6.4 | 1.4 | Α |
| | Subtotal | 732 | | | 29.8 | | С |
| SWB | R | 196 | 0 | 0 | 0.5 | 0.1 | Α |
| OVVD | Subtotal | 196 | | | 0.5 | | Α |
| Total | | 3,453 | | | 24.3 | 0.5 | С |



Project: Lehi-Micron TIS
Analysis Period: 2030-Background

Time Period: PM Project #: UT-263

Intersection: EB CL Off-Ramp Center

Type: Unsignalized

| Approach | Movement | Volume | Queue | | D | Delay/Veh (sec) | | |
|----------|----------|--------|-------|-----|-----|-----------------|-----|--|
| | | | Max | Avg | Avg | St Dev | LOS | |
| | Т | 38 | 0 | 0 | 0.4 | 0.1 | Α | |
| NB | T2 | 161 | 0 | 0 | 0.8 | 0.1 | Α | |
| | Subtotal | 199 | | | 0.7 | | Α | |
| SB | Т | 280 | 0 | 0 | 0.0 | 0.0 | Α | |
| OB | Subtotal | 280 | | | 0.0 | | Α | |
| SEB | R | 151 | 46 | 0 | 2.1 | 0.2 | Α | |
| SLB | Subtotal | 151 | | | 2.1 | | Α | |
| Total | | 630 | | | 0.7 | 0.1 | Α | |



Project: Lehi - Micron TIS
Analysis Period: 2030 - Plus Project
Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: UT11-263

Intersection: 1200 West Type: Signalized

| Approach | Movement | Volume | Qı | ieue | Do | elay/Veh (sec) | |
|----------|----------|--------|-------|------|------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| NB | L | 375 | 362 | 90 | 75.6 | 5.3 | Ε |
| | Т | 65 | 125 | 21 | 64.3 | 4.9 | Ε |
| IND | R | 386 | 512 | 70 | 31.4 | 6.8 | С |
| | Subtotal | 825 | | | 54.1 | | D |
| | L | 129 | 252 | 57 | 77.2 | 7.5 | Ε |
| SB | Т | 130 | 216 | 49 | 68.3 | 3.9 | Ε |
| OB | R | 100 | 106 | 10 | 21.8 | 2.4 | С |
| | Subtotal | 358 | | | 58.5 | | Ε |
| | L | 155 | 150 | 36 | 79.9 | 1.6 | Ε |
| EB | Т | 704 | 392 | 47 | 31.0 | 5.2 | С |
| LD | R | 672 | 1,070 | 156 | 39.3 | 7.4 | D |
| | Subtotal | 1,531 | | | 39.6 | | D |
| | L | 746 | 1,380 | 395 | 95.8 | 10.1 | F |
| WB | Т | 1,003 | 1,357 | 370 | 49.8 | 11.1 | D |
| VVD | R | 197 | 147 | 8 | 33.0 | 7.5 | С |
| | Subtotal | 1,946 | | | 65.7 | | Ε |
| Total | | 4,661 | | | 54.6 | 4.5 | D |

4,900 95%



Project: Lehi - Micron TIS
Analysis Period: 2030 - Plus Project
Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: UT11-263

Intersection: Traverse D Type: Signalized

| Approach | Movement | Volume | Qı | ieue | D | elay/Veh (sec) | |
|----------|----------|--------|-----|------|------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 67 | 142 | 28 | 75.1 | 10.4 | Ε |
| SB | R | 59 | 88 | 10 | 35.1 | 8.9 | D |
| | Subtotal | 126 | | | 56.5 | | Ε |
| | L | 57 | 87 | 5 | 34.8 | 6.7 | С |
| EB | Т | 1,162 | 346 | 9 | 4.8 | 0.2 | Α |
| | Subtotal | 1,219 | | | 6.2 | | Α |
| | Т | 1,904 | 372 | 16 | 4.5 | 3.3 | Α |
| WB | R | 109 | 7 | 0 | 2.0 | 0.6 | Α |
| | Subtotal | 2,012 | | | 4.4 | | Α |
| Total | | 3,357 | | | 7.0 | 2.1 | Α |

3,570 94%



Project: Lehi - Micron TIS

Analysis Period: 2030 - Plus Project

Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: *UT11-263*

Intersection: 500 West
Type: Signalized

| Approach | Movement | Volume | Qı | iene | De | elay/Veh (sec) | |
|----------|----------|--------|-----|------|-------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 335 | 222 | 57 | 53.7 | 1.6 | D |
| SB | R | 275 | 316 | 56 | 36.6 | 2.6 | D |
| OB OB | R2 | 737 | 472 | 142 | 62.4 | 1.9 | Ε |
| | Subtotal | 1,347 | | | 55.0 | | D |
| | L | 105 | 292 | 114 | 173.9 | 50.4 | F |
| EB | Т | 1,121 | 259 | 39 | 12.7 | 0.7 | В |
| | Subtotal | 1,226 | | | 26.5 | | С |
| | L | 497 | 311 | 78 | 57.5 | 2.5 | Ε |
| WB | Т | 1,745 | 925 | 275 | 38.6 | 1.2 | D |
| " | R | 52 | 40 | 1 | 16.8 | 1.9 | В |
| | Subtotal | 2,294 | | | 42.2 | | D |
| Total | | 4,867 | | | 41.8 | 1.4 | D |

5,150 95%



Project: Lehi - Micron TIS

Analysis Period: 2030 - Plus Project

Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: UT11-263

Intersection: Center St Type: Signalized

| Approach | Movement | Volume | Qı | ueue | De | elay/Veh (sec) | |
|----------|----------|--------|-------|-------|-------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| NB | L | 32 | 58 | 10 | 73.3 | 11.6 | Ε |
| | Т | 354 | 269 | 200 | 73.8 | 2.7 | Ε |
| NB | R | 169 | 267 | 198 | 71.8 | 10.1 | Ε |
| | Subtotal | 554 | | | 73.2 | | Ε |
| | L | 391 | 804 | 228 | 134.5 | 32.5 | F |
| SB | Т | 634 | 640 | 102 | 54.9 | 13.5 | D |
| OB | R | 430 | 778 | 117 | 54.1 | 12.2 | D |
| | Subtotal | 1,455 | | | 76.1 | | Ε |
| | L | 90 | 131 | 32 | 115.7 | 33.2 | F |
| EB | Т | 1,297 | 847 | 187 | 36.8 | 2.9 | D |
| LD | R | 65 | 82 | 2 | 10.3 | 1.5 | В |
| | Subtotal | 1,451 | | | 40.5 | | D |
| | L | 388 | 827 | 129 | 129.0 | 6.1 | F |
| WB | Т | 1,829 | 1,674 | 1,057 | 71.7 | 8.7 | Ε |
| VVD | R | 102 | 68 | 1 | 48.7 | 6.8 | D |
| | Subtotal | 2,319 | | | 80.2 | | F |
| Total | | 5,780 | | | 68.6 | 5.5 | Ε |

6,240 93%



Project #: *UT11-263*

VISSIM Level of Service Report

Project: Lehi - Micron TIS
Analysis Period: 2030 - Plus Project
Time Period: P.M. Peak Hour

Intersection: 400 East Type: Signalized

| Approach | Movement | Volume | Qı | ieue | De | Delay/Veh (sec) | |
|----------|----------|--------|-------|------|-------|-----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 490 | 858 | 495 | 104.0 | 4.2 | F |
| SB | R | 515 | 376 | 14 | 47.9 | 5.5 | D |
| | Subtotal | 1,006 | | | 75.3 | | Ε |
| | L | 47 | 106 | 19 | 76.3 | 15.6 | Е |
| EB | Т | 1,807 | 0 | 0 | 0.4 | 0.2 | Α |
| | Subtotal | 1,854 | | | 2.3 | | Α |
| | Т | 1,842 | 1,674 | 894 | 81.2 | 17.0 | F |
| WB | R | 235 | 59 | 0 | 63.4 | 17.3 | Ε |
| | Subtotal | 2,078 | | | 79.1 | | Ε |
| Total | | 4,937 | | | 49.5 | 7.2 | D |

5,430 91%



Project: Lehi - Micron TIS

Analysis Period: 2030 - Plus Project

Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: UT11-263

Intersection: 1200 East Type: Signalized

| Approach | Movement | Volume | Qu | eue | De | elay/Veh (sec) | |
|----------|----------|--------|-------|-----|-------|----------------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| NB | L | 406 | 354 | 102 | 75.6 | 5.3 | Ε |
| | Т | 159 | 128 | 29 | 53.7 | 4.9 | D |
| ND | R | 379 | 380 | 66 | 35.5 | 5.8 | D |
| | Subtotal | 944 | | | 55.8 | | Ε |
| | L | 419 | 1,241 | 318 | 107.1 | 20.6 | F |
| SB | Т | 668 | 1,275 | 388 | 91.8 | 22.9 | F |
| | Subtotal | 1,087 | | | 97.7 | | F |
| | L | 474 | 1,170 | 260 | 100.8 | 14.0 | F |
| EB | Т | 1,377 | 1,207 | 180 | 37.7 | 9.7 | D |
| | R | 667 | 1,088 | 90 | 26.4 | 6.5 | С |
| | Subtotal | 2,518 | | | 46.6 | | D |
| | L | 97 | 111 | 36 | 141.2 | 27.3 | F |
| WB | Т | 1,309 | 1,493 | 588 | 88.6 | 38.4 | F |
| VVD | R | 78 | 57 | 1 | 67.5 | 36.5 | Ε |
| | Subtotal | 1,483 | | | 90.9 | | F |
| SWB | R | 630 | 186 | 4 | 24.6 | 17.7 | С |
| OVVD | Subtotal | 630 | | | 24.6 | | С |
| Total | | 6,662 | | | 63.8 | 4.9 | Ε |

7,070 94%



Project: Lehi - Micron TIS

Analysis Period: 2030 - Plus Project

Time Period: P.M. Peak Hour

Time Period: P.M. Peak Hour Project #: UT11-263

Intersection: Highland Blvd Type: Signalized

| Approach | Movement | Volume | Queue | | Delay/Veh (sec) | | |
|----------|----------|--------|-------|-----|-----------------|--------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | L | 196 | 333 | 67 | 59.9 | 3.8 | Ε |
| NB | Т | 87 | 206 | 33 | 71.4 | 7.0 | Ε |
| ND | R | 110 | 143 | 12 | 26.0 | 2.7 | С |
| | Subtotal | 393 | | | 53.0 | | D |
| | L | 413 | 1,660 | 311 | 74.9 | 6.5 | Ε |
| SB | Т | 59 | 114 | 16 | 63.0 | 6.6 | Ε |
| | Subtotal | 473 | | | 73.4 | | Ε |
| | L | 676 | 369 | 116 | 55.9 | 1.6 | Ε |
| EB | Т | 2,175 | 519 | 148 | 30.6 | 1.0 | С |
| | R | 159 | 537 | 158 | 18.6 | 3.8 | В |
| | Subtotal | 3,010 | | | 35.6 | | D |
| | L | 57 | 447 | 140 | 304.6 | 142.2 | F |
| WB | Т | 845 | 578 | 164 | 54.3 | 13.3 | D |
| VVD | R | 162 | 144 | 10 | 19.1 | 7.6 | В |
| | Subtotal | 1,064 | | | 62.2 | | Ε |
| SWB | R | 573 | 468 | 29 | 10.9 | 8.1 | В |
| OVVD | Subtotal | 573 | | | 10.9 | | В |
| Total | | 5,512 | | | 42.8 | 3.3 | D |

5,740 96%



Project #: *UT11-263*

VISSIM Level of Service Report

Project: Lehi - Micron TIS
Analysis Period: 2030 - Plus Project
Time Period: P.M. Peak Hour

Intersection: EB CL Off-Ramp Center

Type: Unsignalized

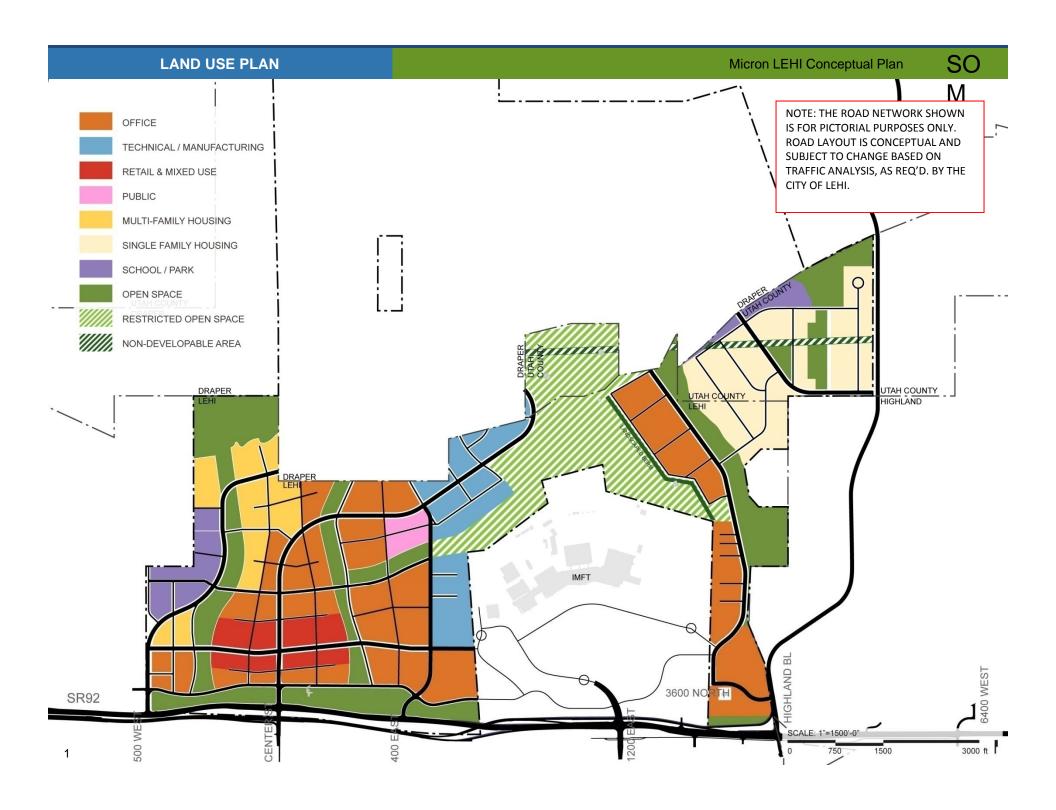
| Approach | Movement | Volume | Queue | | Delay/Veh (sec) | | |
|----------|----------|--------|-------|-----|-----------------|--------|-----|
| | | | Max | Avg | Avg | St Dev | LOS |
| | Т | 32 | 0 | 0 | 141.0 | 104.0 | F |
| NB | T2 | 549 | 1,180 | 521 | 163.6 | 69.5 | F |
| | Subtotal | 581 | | | 162.4 | | F |
| SB | Т | 1,087 | 0 | 0 | 0.0 | 0.0 | Α |
| OB | Subtotal | 1,087 | | | 0.0 | | Α |
| SEB | R | 145 | 94 | 4 | 6.7 | 0.9 | Α |
| SLD | Subtotal | 145 | | | 6.7 | | Α |
| Total | | 1,812 | | | 52.4 | 22.3 | F |

1,930 94%



APPENDIX C

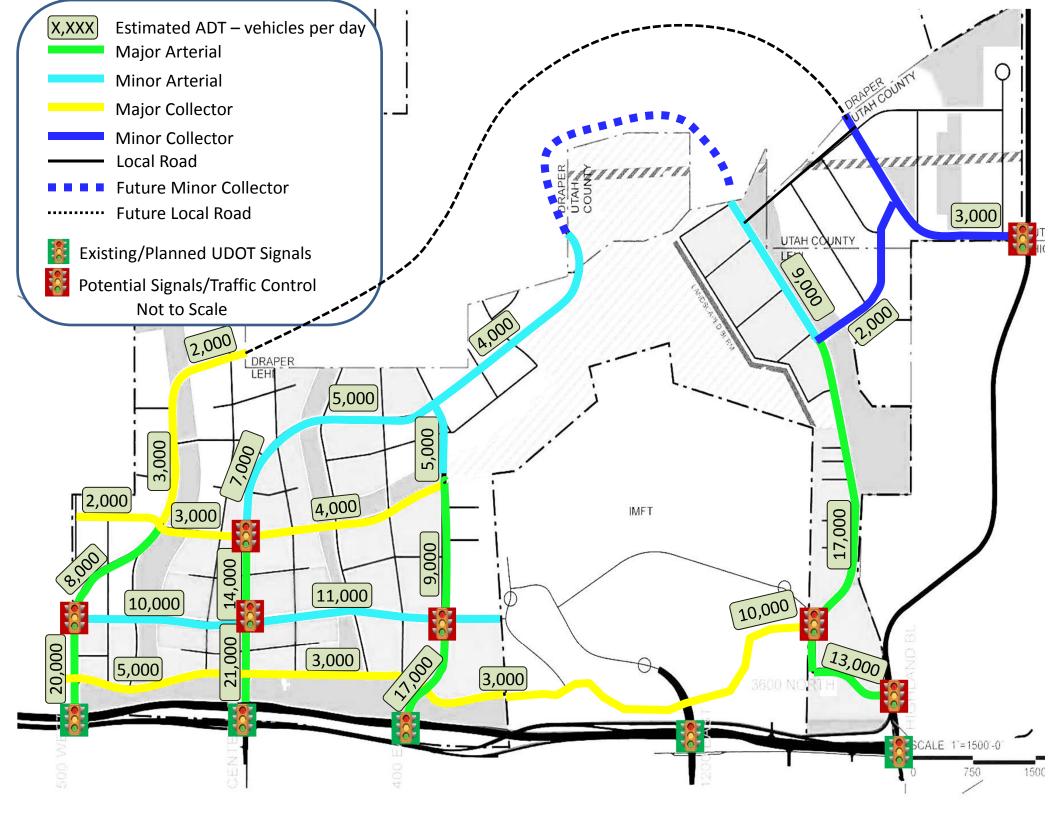
Site Plan

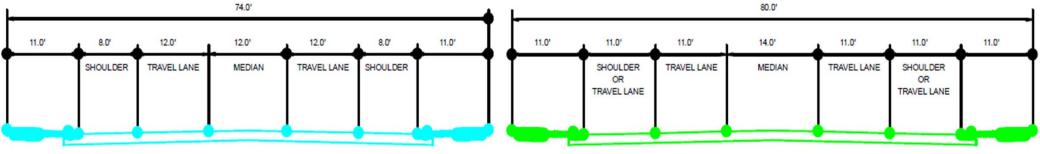




APPENDIX D

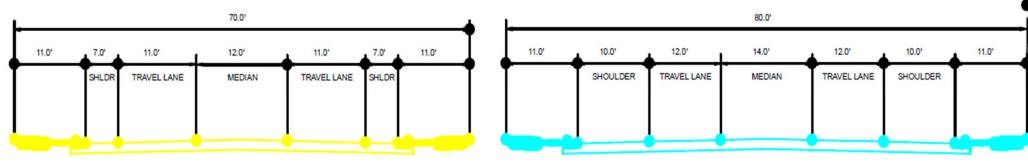
Recommended Cross Sections





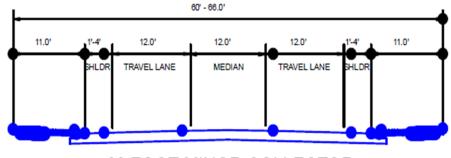
74 FOOT MINOR ARTERIAL (2600 NORTH)

80 FOOT MAJOR ARTERIAL

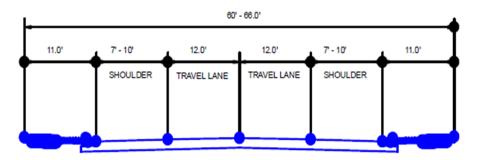


70 FOOT MAJOR COLLECTOR

80 FOOT MINOR ARTERIAL (700 SOUTH)



66 FOOT MINOR COLLECTOR



66 FOOT MINOR COLLECTOR



APPENDIX E

Phasing Assumptions

Phasing Estimate for Micron Project 8/26/2011

| | Employmer | | Social Heart | | | Residential | |
|-------------|--------------------|-------------|--------------|---------|-----------|-------------|------|
| Time Period | Tech/Manufacturing | Office Park | Retail | Office | Apartment | MF | SFDU |
| 2012-2015 | 300,000 | 1,500,000 | 0 | 0 | 0 | 0 | 0 |
| 2016-2020 | 300,000 | 1,500,000 | 60,000 | 96,000 | 0 | 140 | 0 |
| 2021-2025 | 142,000 | 1,500,000 | 119,000 | 192,000 | 115 | 165 | 100 |
| 2026-2030 | 0 | 455,000 | 119,000 | 193,000 | 0 | 165 | 95 |
| | 742 000 | 4 955 000 | 298 000 | 481.000 | 115 | 470 | 195 |

First priority is office in the southwest area primarily using Center Street for access.

Office will spread form there to the north.

Office east of IMFT will occur later.

Anlaysis years will be 2020 and 2030 as with original TIS.

Additional timing detail for improvements will be given to Lehi in five-year increments as shown above.



APPENDIX F

SR-92 Corridor Agreement

13773

Corridor Preservation Along SR-92 from Thanksgiving Way to 1800 East in Lehi **LEHI CITY CORPORATION** Federal ID No. 876000240

COOPERATIVE AGREEMENT

THIS COOPERATIVE AGREEMENT, made and entered into this 10th day of the Land of Land Corporation of the State of Utah,

WITNESSETH:

WHEREAS, the Utah Department of Transportation has completed an environmental document for SR-92 from Interstate 15 to SR-146 which includes an analysis of all accesses along the corridor. This project is known as "SR-92 Lehi to Highland - Environmental," project number HPP-TI-0092(8)0.

WHEREAS, UDOT has determined by formal finding that regulation of intersection point for future highway improvements is not a violation of the laws of the State of Utah or any legal contract with the Cities.

WHEREAS, the parties hereto desire to establish and preserve a corridor along SR-92 from Thanksgiving Way to 1800 East in Lehi City, Utah County, Utah to facilitate traffic flow and in accordance with Lehi City's Master Transportation Plan approved 9-28-10, including:

- 1. Future extension of 2300 West to SR-92 at the Triumph Blvd. intersection.
- 2. Extension of 1200 West from the current terminus at Bull River Rd. to SR-92.
- 3. Access from the north side of SR-92 at:
 - a. Future Traverse Mountain Road B
 - b. Future Traverse Mountain Road F
 - c. 500 West
 - d. Center St.
 - e. 400 East (IM Flash Road A)
 - f. IM Flash Road C (relocated from SR-92 to 1800 East)

This agreement complements an existing cooperative agreement (#058602) between **UDOT**, the **CITY**, and Traverse Mountain Commercial Investments, LLC.

NOW THEREFORE, it is agreed by and between the parties hereto as follows:

Corridor Preservation Along SR-92 from Thanksgiving Way to 1800 East in Lehi **LEHI CITY CORPORATION** Federal ID No. 876000240

1. The following locations are identified as locations for existing, warranted, or proposed traffic signal installations along SR-92 as indicated on the attached maps:

| | Thanksgiving Way (to be relocated | (Existing) |
|------|-----------------------------------|----------------------|
| to A | Ashton Blvd) | |
| | I-15 SB On/Off Ramps | (Existing) |
| C. | I-15 NB On/Off Ramps | (Existing) |
| D. | East Frontage Road/Cabela's Way | (North Leg Existing) |
| | | (South Leg Proposed) |
| E. | Triumph Blvd./2300 West | (North Leg Existing) |
| | | (South Leg Proposed) |
| F. | Traverse Mountain Road B* | (North Leg Proposed) |
| G. | Morning Glory Rd./1200 West | (Warranted) |
| H. | Traverse Mountain Road F* | (North Leg Proposed) |
| I. | 500 West* | (North Leg Proposed) |
| J. | Center Street | (South Leg Existing) |
| | | (North Leg Proposed) |
| K. 4 | 400 East/IM Flash Road A* | (North Leg Proposed) |
| | 1200 East/IM Flash Road B | (Existing) |
| | 1800 East | (Existing) |
| | | (Laisting) |

*These proposed future intersections (consisting of a north leg only) may be considered for traffic signals per the environmental document for the expansion of SR-92. If any of these intersections are warranted for traffic signals, the construction of traffic signals is at the sole discretion of **UDOT**.

- 2. No other intersections or accesses will be allowed by **UDOT** except for the two existing accesses on the south side of SR-92 between 1200 East and 1800 East. The first driveway located at approx. MP 3.45 and the second driveway at approx. MP 3.92.
- 3. It is understood that it may be necessary to restrict traffic movements at any of the intersections or accesses listed above in order to maximize traffic flow and improve safety through the corridor as agreed upon by the parties hereto. Specifically, when 1200 West extends north and connects to SR-92, the intersection of SR-92 at Bull River Road (1500 West) shall be eliminated by Bull River Road being made into a cul-de-sac (or equivalent) at SR-92.
- 4. The parties hereto shall develop any master plans in this area around the concepts contained herein and work towards the common goal of this Cooperative Agreement.
- 5. In the event there are changes in the concepts or provisions covered by this Cooperative Agreement, a modification to this agreement approved in writing by all parties hereto is required to place them in effect.

Corridor Preservation Along SR-92 from Thanksgiving Way to 1800 East in Lehi **LEHI CITY CORPORATION** Federal ID No. 876000240

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed by their duly authorized officers as of the day and year first above written.

| ATTEST: | LEHI CITY CORPORATION, a |
|---|---|
| Title Cary Seconder Date: 1-3-2011 | By Corporation of the State of Utah By Title ///ayor Date: (-3 20// |
| (IMPRESS SEAL) | AT |
| | |
| ************* | ******** |
| RECOMMENDED FOR APPROVAL: UTAH | DEPARTMENT OF TRANSPORTATION |
| Lich J. Caupagna Utilities/Railroad Coordinator | By Region Director |
| Date:///// | Date: _//10/11 |
| APPROVED AS TO FORM: | COMPTROLLER OFFICE |
| The Utah State Attorney General's Office has previously approved all paragraphs in this Agreement as to form. | ByContract Administrator Date: |
| | |

