

# LAKE POINT

## Transportation Master Plan



September 2025



**HALES**  **ENGINEERING**  
innovative transportation solutions



## ACKNOWLEDGEMENTS

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# INTRODUCTION





## OVERVIEW

With history back to the 1854, Lake Point has been an important location on the shores of the Great Salt Lake and a connection between Tooele and Salt Lake Counties. The population increased to approximately 2,600 residents in 2021 and continues to grow. With this growth comes many challenges and opportunities to provide safe and efficient transportation for the citizens of Lake Point.

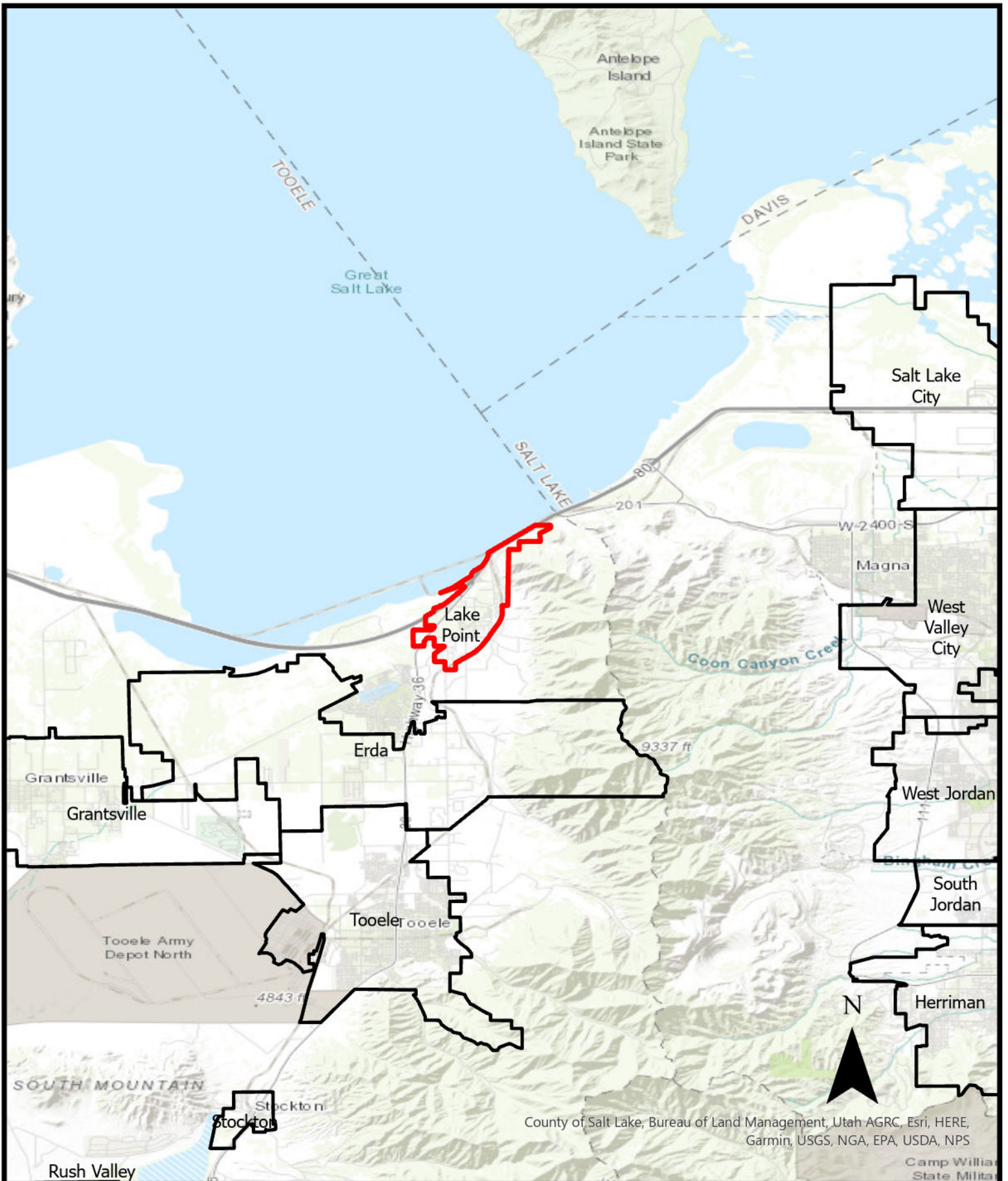
Lake Point continues to see residential growth with the development of more neighborhoods in the area. With a high number of residents traveling in and out of Lake Point to commute to work during peak hours, there are existing challenges with transportation in the city. The purpose of this Transportation Master Plan (TMP) is to plan for the multi-modal transportation needs of Lake Point, accounting for the projected future growth.

Lake Point is in Tooele County, Utah, about 10 miles north of Tooele and 25 miles west of downtown Salt Lake City – bordered by Stansbury Park to the south, the Great Salt Lake to the North, and the Oquirrh Mountains to the east, as shown in Figure 1.

While numerous traffic studies have been done in or around the Lake Point, this will be the first edition of the transportation master plan. The Lake Point TMP is being written with the most current land use plans. Because growth can be unpredictable, it will be necessary to update this TMP periodically.

Key to planning for Lake Point's transportation needs is an understanding of the community goals and policies related to transportation. The General Plan includes future land use and development plans and goals by city officials and how those will be achieved. This TMP provides details regarding the community's transportation needs, including future demand and improvements, to meet the goals outlined by city officials. The TMP expands the vision for the General Plan into actionable mobility-related goals and objectives to guide Lake Point's near- and long-term transportation investments.





County of Salt Lake, Bureau of Land Management, Utah AGRC, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS



## DEMOGRAPHICS

This section discusses the demographics of Lake Point and provides helpful information about how people live, work, and play. These characteristics have a direct impact on the transportation needs of the community. The existing demographics data come primarily from U.S. Census data, including the American Community Survey results.

### POPULATION



The population in Lake Point, according to the U.S. Census 2023 estimate, was 2,938. The median age of the population is approximately 29 years, and approximately 35 percent of the population is 18 years or younger.

**Population (2023):**

**2,938**

### HOUSEHOLDS



Similar growth has occurred for the number of households in Lake Point. According to the U.S. Census, the estimate for households is approximately 871 in 2023. It is estimated that there are approximately 3.37 persons per household.

Approximately 99 percent of homes are single-family detached units and 1 percent are duplexes. Related to transportation demand, approximately 98 percent of workers have at least one vehicle available for use in their household, and approximately 73 percent of workers have at least three vehicles within their household.

**Households (2023):**

**871**

### EMPLOYMENT & JOURNEY TO WORK



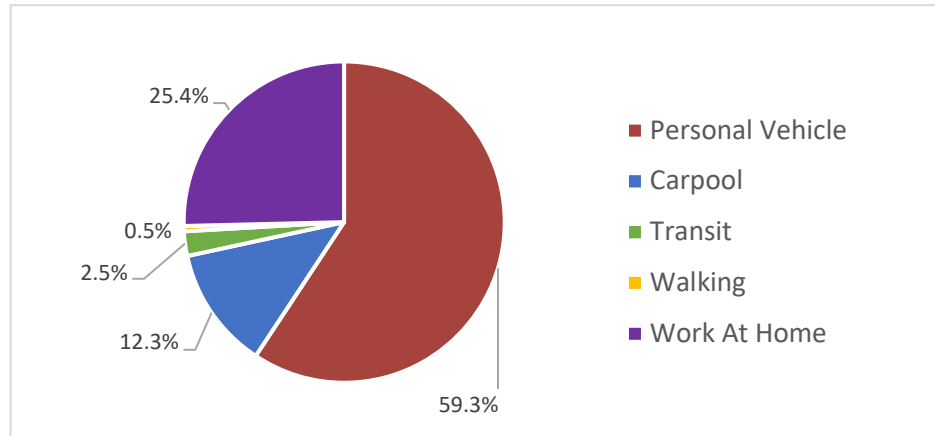
As of 2023, nearly 1,700 Lake Point residents were employed, and the median household income was \$133,175. Unlike population, the employment opportunities within the city have not seen significant growth until the last few years. Data were collected from the U.S. Census American Community Survey results for Lake Point to determine the mode split of the residents. The recent mode split of lake point residents is based on survey results from 2022 shown in

Figure 2.

As shown, just under 60 percent of workers drive alone in a personal vehicle to work. Approximately 12 percent carpool and 2.5 percent ride transit. The average commute time to work for Lake Point residents is 30.8 minutes.



**Avg. Commute:  
31 min.**



**Figure 2: Lake Point mode split**

## LAND USE



This section discusses existing and future land use in Lake Point. Land use is a good predictor of transportation trends and demand. Therefore, it is important to identify land use when planning for transportation needs. There are several parcels within city limits that are anticipated to experience development in the near future. Other areas that already have some developed land will experience in-fill development projects that will increase the density of land uses.

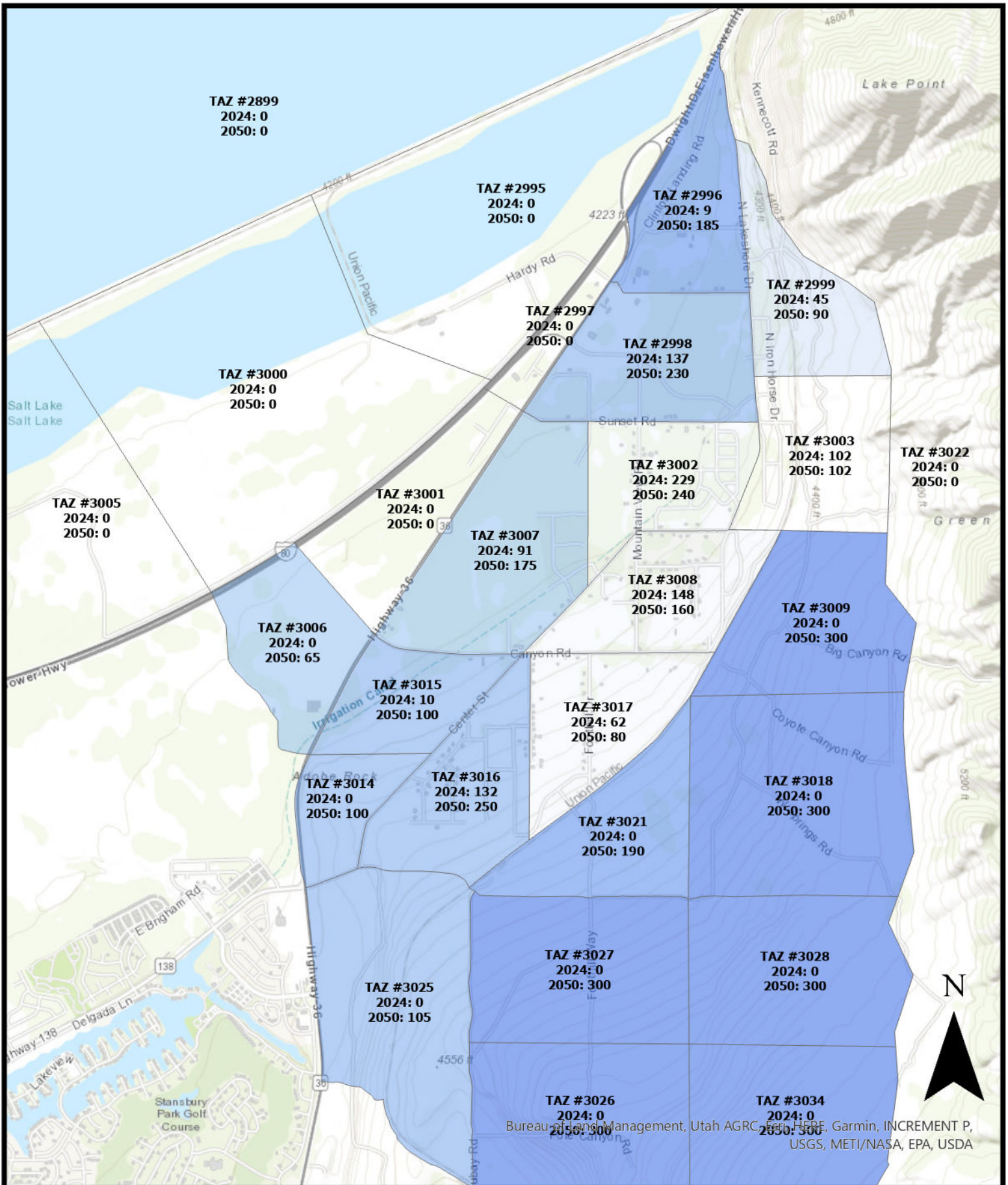
Much of Lake Point currently consists of residential uses with approximately 965 current households within city boundaries. Some commercial developments are primarily located along the SR-36 corridor. In preparation to complete this TMP, Lake Point city staff summarized the projects and land uses that are expected to develop by 2050 to help determine future transportation demand in Lake Point.

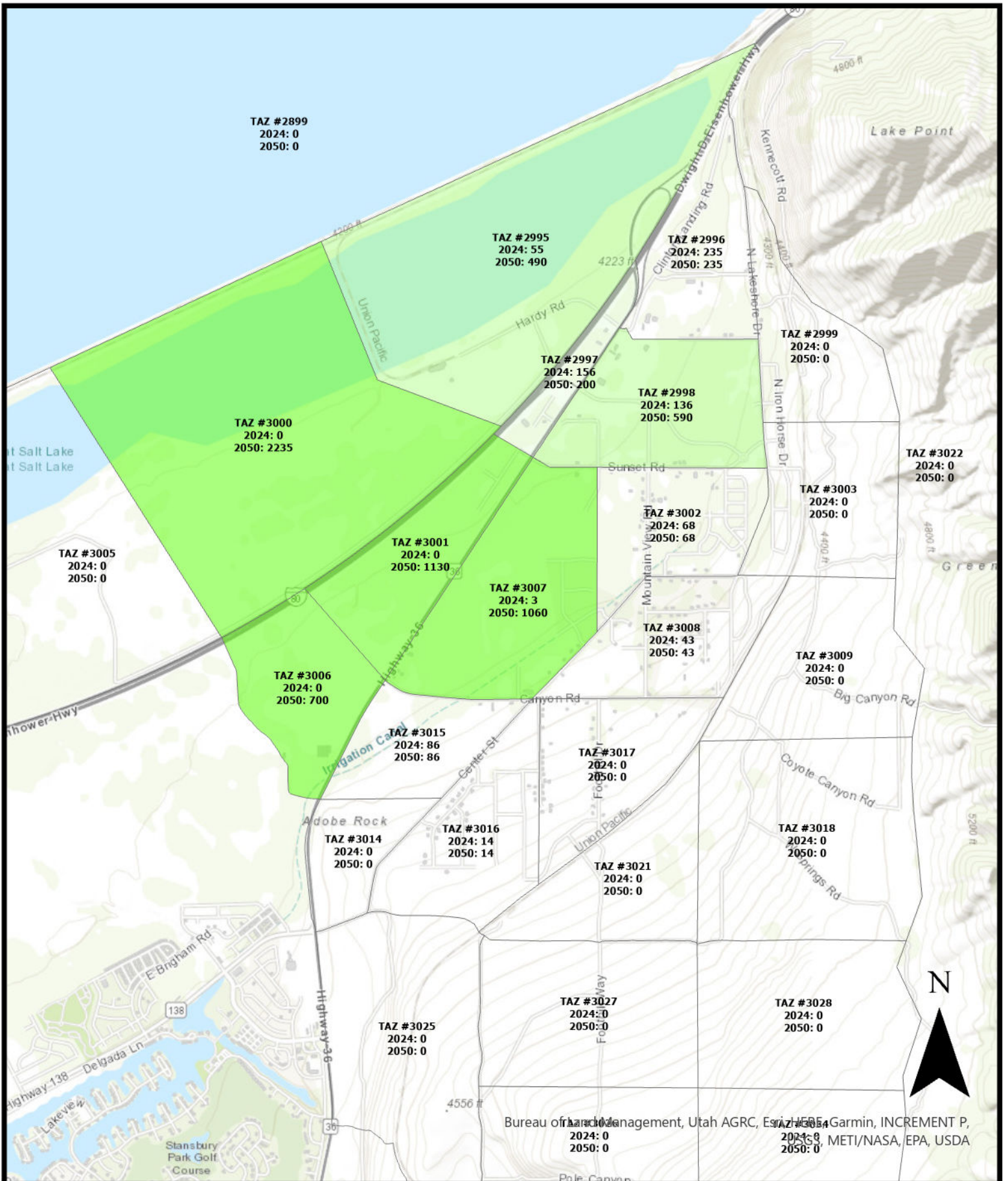
The baseline (2024) and future job and employment numbers by year are summarized in Table 1. The population data is based on 3.37 persons per household, which was assumed in the current USTM. This data was used in the Utah Statewide Travel Model (USTM) to estimate future traffic volume demand. The USTM breaks up each area of Lake Point into a traffic analysis zone (TAZ), where land use is assigned. Adjustments were made to the model based on input from city officials. Detailed TAZ data is provided in the Appendix. Graphical representations of the household and population growth are provided in Figure 3 and Figure 4.

**Table 1: Lake Point TAZ summary**

Year	Population	Households	Jobs
2024	3,252	965	741
2050	4,975	1,677	6,522

*Note: Some TAZs contain area outside Lake Point city boundaries*







## TRAVEL DEMAND FORECASTING

Hales Engineering obtained the USTM (version 3.0) to predict future travel volumes in Lake Point. Based on the socioeconomic data within that model, various adjustments were made to be in line with the data and assumptions provided by Lake Point city staff. The future LU assumptions, as summarized above in Table 1, were applied to the Lake Point Travel Demand Model to estimate future roadway volumes throughout the city for the future year 2050.

Based on the results of the no-build future (2050) volume projections, Hales Engineering determined deficiencies in roadway capacity under no-build conditions, which were then used as a factor in determining future roadway projects. The future travel demand models were then adjusted accordingly based on these projects to obtain future (2050) build conditions. The underlying assumptions, future projects, and results of these analyses are summarized later in this document.

## PUBLIC ENGAGEMENT

Local stakeholder involvement and engagement in any TMP is critical to understanding current conditions of the transportation network and to identifying needs for future improvement. The involvement and engagement included a community survey and multiple meetings with the Lake Point City Council to involve key stakeholders throughout the process. The following sections are summaries of these efforts.

### ONLINE COMMUNITY SURVEY

The City of Lake Point Facebook account posted a link to a survey that was open for responses in September and October 2024. The information about the survey was also posted physically at the Lake Point Fire Station. The survey closed on October 18, 2024, and gathered information from 135 survey participants. The location of the comments made in the community survey are show in Figure 5.

The following TMP-related questions were asked in the survey:

1. Which of the following best describes you?
  - a. Live, Work, Shop, Recreate, and/or Own Property in Lake Point
2. How important are the following transportation modes to your personal travel in Lake Point?
  - a. Personal Vehicles, Transit, Bicycle, Walking, Equestrian, OHV
    - i. Five options ranging from “Not Important” to “Very Important”
3. How would you rate your experience with the following modes of transportation?
  - a. Personal Vehicles, Transit, Bicycle, Walking, Equestrian, OHV
    - i. Five options ranging from “Poor” to “Excellent”
4. How would you rate your current travel time in the morning peak hour through Lake Point on an average day?
  - a. Three options ranging from “Congested and Slow,” “As Expected,” “Faster than Expected”
5. How would you rate your current travel time in the morning peak hour
  - a. Three options ranging from “Congested and Slow,” “As Expected,” “Faster than Expected”



# TRANSPORTATION MASTER PLAN

6. How long is your commute to work? (optional)
  - a. Slider with 15-minute increments
7. How many days a week do you commute to work?
  - a. Free response in days
8. How often do you currently ride transit (including on-demand)?
  - a. "3+ days per week," "1-2 days per week," "Rarely or never"
9. Any other ideas/observations for the Master Transportation Plan do you feel need further addressing?
  - a. Free response
10. How would you improve the roads in Lake Point
  - a. Free Response

How would you improve the transit system in Lake Point? If more bus service were provided to and from Lake Point, would you ride transit more

  - b. Free Response

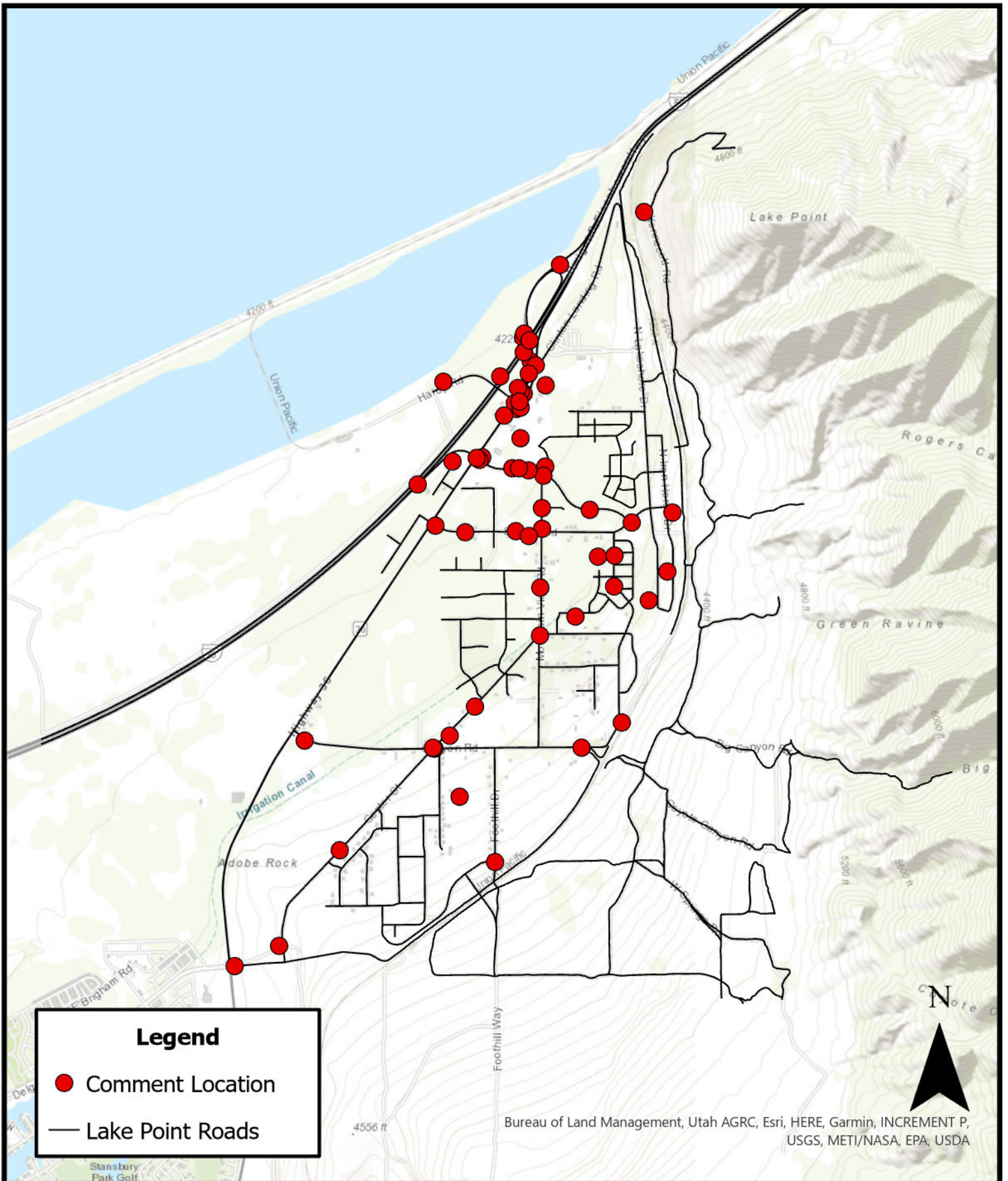
How would you improve the sidewalk and trail/equestrian network in Lake Point?

  - c. Free Response
11. Would you be in favor of a transit park-and-ride in Lake Point?
  - a. "Yes," "No," "Maybe"
12. From your experience, what is a location with heavy congestion or a safety issue?
  - a. (select on map)
13. Do you feel that infrastructure funding should prioritize roads, or sidewalks and trails?
  - a. Slider with sidewalk and trails on one side and roads on the other
14. Alternative routes to enter and exit the county are currently being proposed. Would you be in favor a new road to the west of SR-36? Would you be in favor of a new road east of the railroad tracks?
  - a. Free Response

General satisfaction for the roadway network was expressed by the survey respondents. 55% of respondents said their experience is good or excellent. The average work commute of respondents matched the 31 minutes from the American Community Survey and 30% of respondents commute 45 minutes or longer. Common topics of response include congestion and safety issues at and near SR-36.

Other key insights of the survey results include a strong preference for an investment in prioritizing both personal vehicle travel and active transportation options. Walking, cycling, and horse-riding are important priorities for respondents and sidewalks and trails are important to most respondents. A majority of respondents favor a park and ride location to improve access to the existing transit service, which is only used by less than 5% of respondents, but deemed important by many more.

A copy of the summarized responses from the online survey is provided in Appendix C.





## STEERING COMMITTEE AND CITY COUNCIL MEETINGS

To aid the direction of the plan, Hales Engineering and the Lake Point organized a steering committee composed of city staff, elected officials, planning commissioners, and UDOT staff. Meetings were held with this group regularly throughout the process. Some additional meetings were held with the entire Lake Point City Council to gain additional input from the other elected officials.

The following individuals were committee members that were part of the steering committee for this transportation master plan:

- Ryan Zumwalt, *City Council*
- Kirk Pearson, *City Council*
- Jonathan Garrard, *City Council*
- Kathleen VonHatten, *City Council*
- Bryan Coulter, *Planning Commission*
- Eric Peterson, *Planning Commission*
- Lori Chigbrow, *Commissioner*
- Jamie Olson, *City Recorder*
- Chaelea Allred, *Commission Secretary*
- Geoff Dupaix, *UDOT Planning Manager*

The following meetings were held between the Hales Engineering Consultant Team and the Steering Committee or Lake Point City Council:

- July 1, 2024 – Kickoff Meeting
- August 5, 2024 – Steering Committee Coordination
- September 9, 2024 – Steering Committee Coordination
- October 7, 2024 - Steering Committee Coordination
- November 6, 2024 – City Council / Planning Commission Meeting
- December 16, 2024 – Steering Committee Coordination
- January 22, 2025 – City Council Meeting
- February 12, 2025 – City Council meeting
- April 14, 2025 - Steering Committee Coordination
- May 14, 2025 – City Council Meeting
- May 19, 2025 – Steering Committee Coordination
- May 28, 2025 – City Council Work Session

## ARCgis STORYMAP

Hales Engineering also created an interactive ArcGIS StoryMap online to report on existing conditions for the survey phase of the project and to provide mapping along with the draft master plan document. This StoryMap includes interactive maps of exhibits shown in this document to make it easier to learn about the plan process and deliverables.

# ROADWAY NETWORK





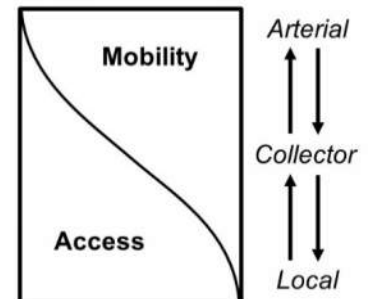
## PURPOSE

The purpose of this chapter is to discuss the characteristics and needs of the existing and future roadway network. Recommendations for future improvements are discussed as well, based on the future projections. The analysis methodologies and models that were used are also discussed.

## FUNCTIONAL CLASSIFICATION



Roads are categorized into a hierarchal system and given a functional classification based on right-of-way (ROW) width. The higher a street classification, the more mobility it provides with limited access. Lower street classifications have less mobility, but more access. The three classifications defined in the Lake Point municipal code are arterials, collectors, and local streets.

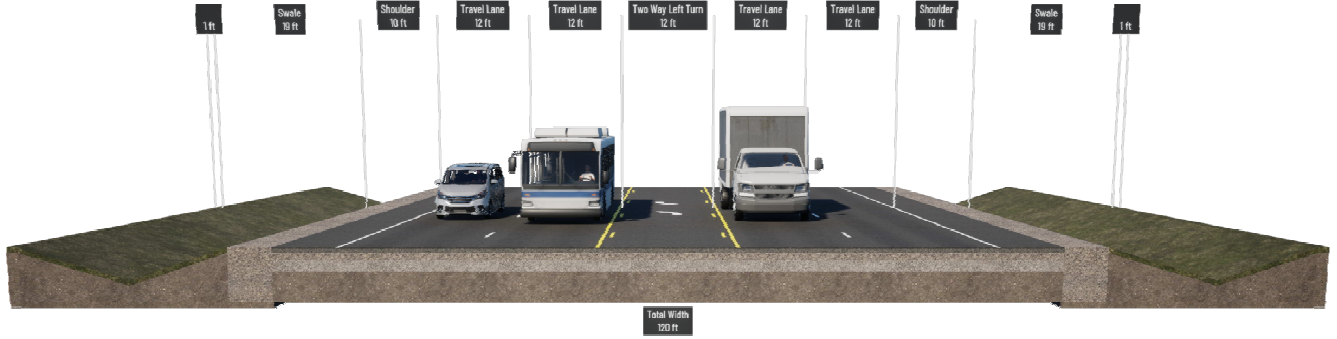


The following are the three typical street classifications for Lake Point roadways:

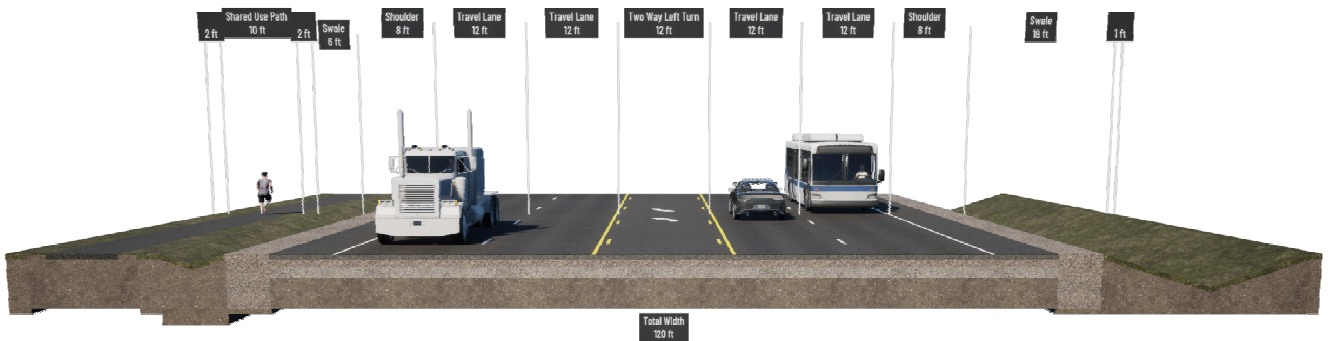
- **Arterial** – Arterials are designed to have greater mobility and connect traffic between population centers and regional attractions. Because of their increased mobility, arterials typically have higher speeds and a high degree of access control, with the exception of some historical sections. Major arterials have a ROW of 120 or more feet while minor arterials have a ROW of 90 feet to 120 feet.
- **Collector** – Collector roads are designed to connect with and augment the arterial system and provide access control. Generally, these streets are intended to carry traffic for shorter distances than arterials and have lower speeds. Collectors have a ROW of 90 feet. A commercial collector road is also designed for greater mobility than local streets as they are generally wider and as a result have less side friction with on-street parking. Commercial collectors also have a ROW of 90 feet and have a curb and gutter with a sidewalk.
- **Local Street** – Local streets are designed for accessibility and have less mobility than any other functional classification. The primary purpose of these is to provide access to surrounding properties and carry low-speed traffic. Some local streets may be designed to discourage through-traffic in neighborhoods. Local streets have a ROW of 60 feet and a swale. A street classified as a local neighborhood street has the same ROW, but also has a curb and gutter with a sidewalk instead of a swale.

A summary of the Lake Point roadway classifications is shown in Table 2. Arterials and collectors are separated into two categories to fit the setting and vehicle flow capacity. Typical cross-sections were designed for each of the Lake Point street classifications primarily based on the existing city cross-section standards and standard engineering practice. These are shown in Figure 6, Figure 7, and Figure 8. These cross-sections do not necessarily match existing roadway cross-sections but are recommended cross-sections for new and improved roadways in the future. An addition of a multi-use trail may also be included in these concepts and may require additional ROW and/or pavement. The colors shown in Table 2 correspond to colors shown in both the cross-section figures and the roadway network figures shown later in the document.

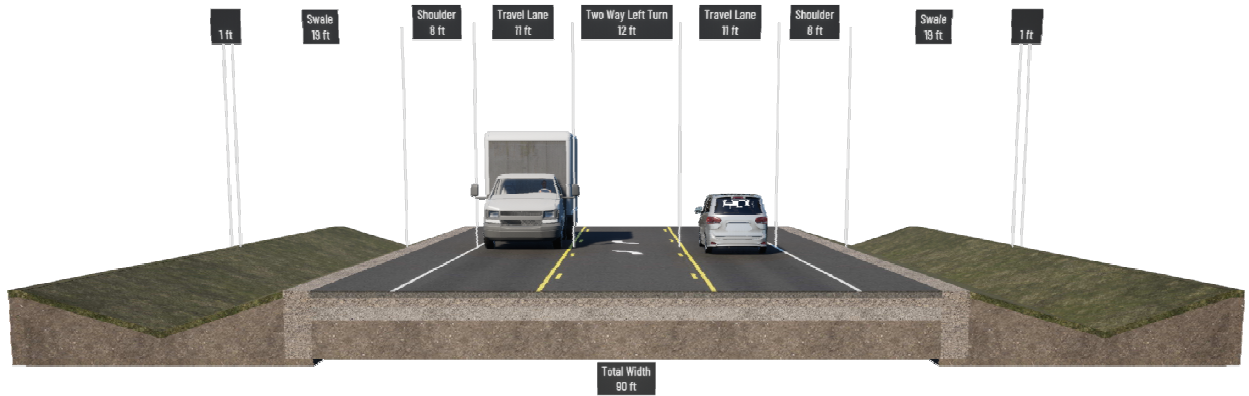
**Major Arterial Road**  
**120' ROW**



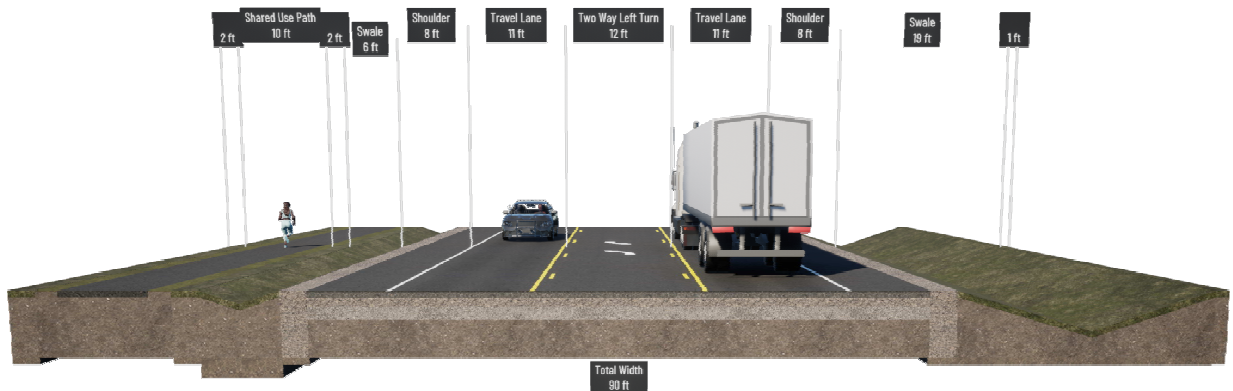
**Major Arterial Road with Trail**  
**120' ROW**



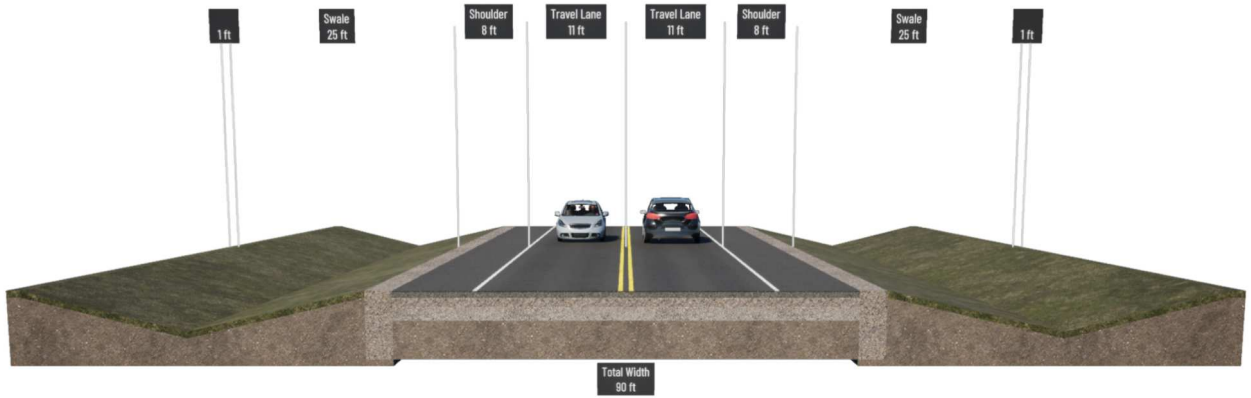
**Minor Arterial Road (3 Lanes)  
90' ROW**



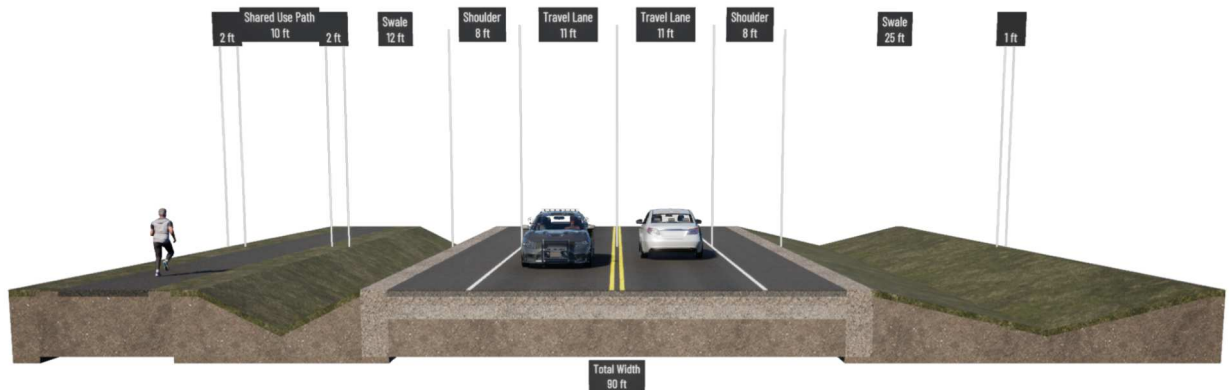
**Minor Arterial Road (3 Lanes) with Trail  
90' ROW**



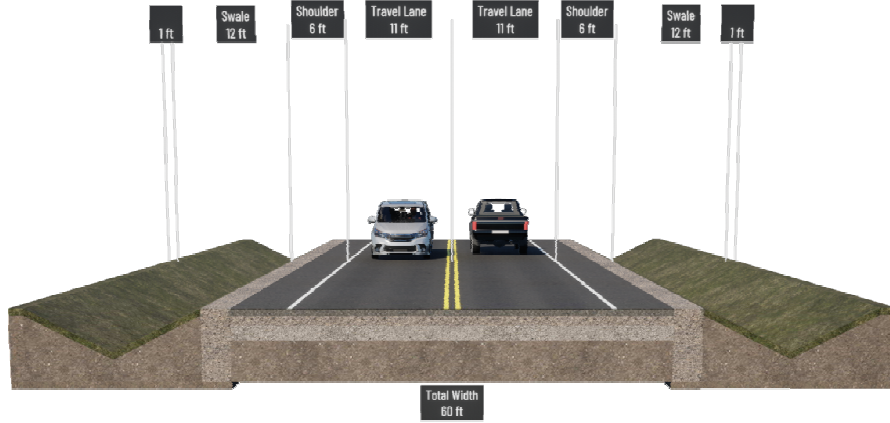
**Minor Arterial Road (2 Lanes)**  
**90' ROW**



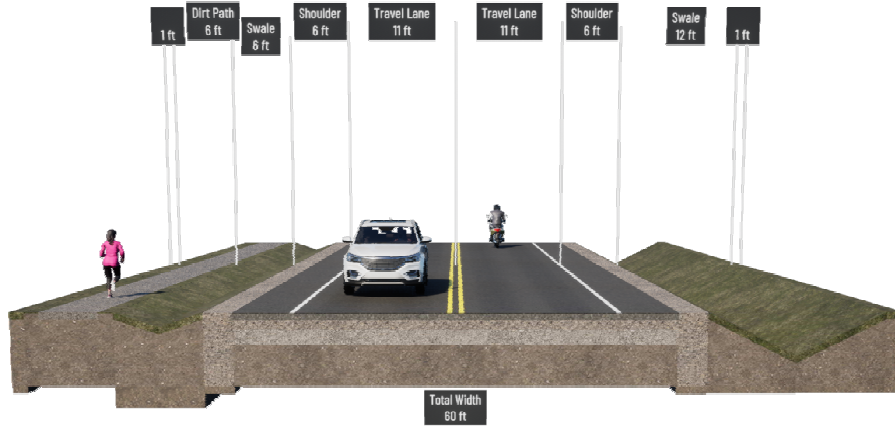
**Minor Arterial Road (2 Lanes) with Trail**  
**90' ROW**



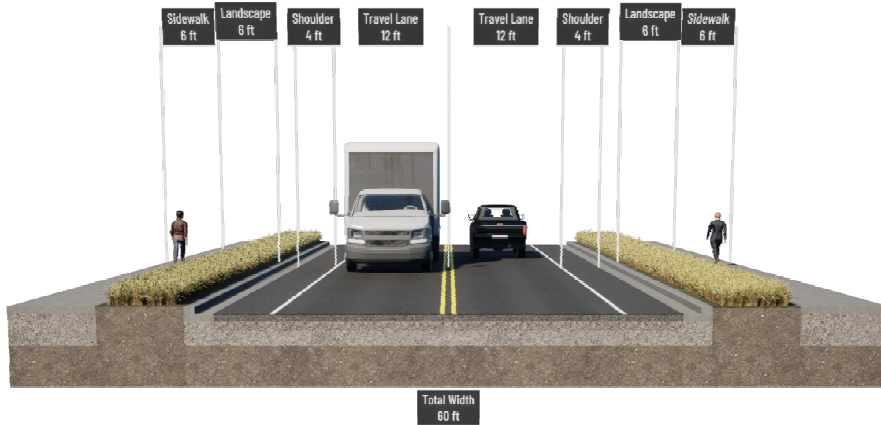
### Collector Road 60' ROW



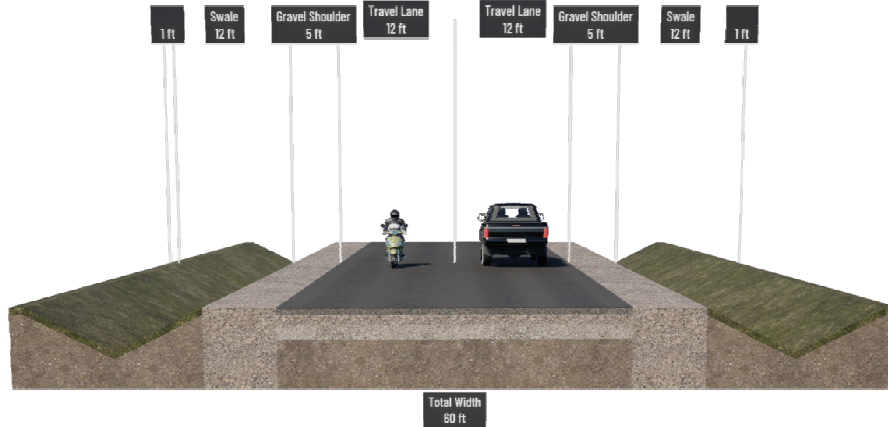
### Collector Road with Trail 60' ROW



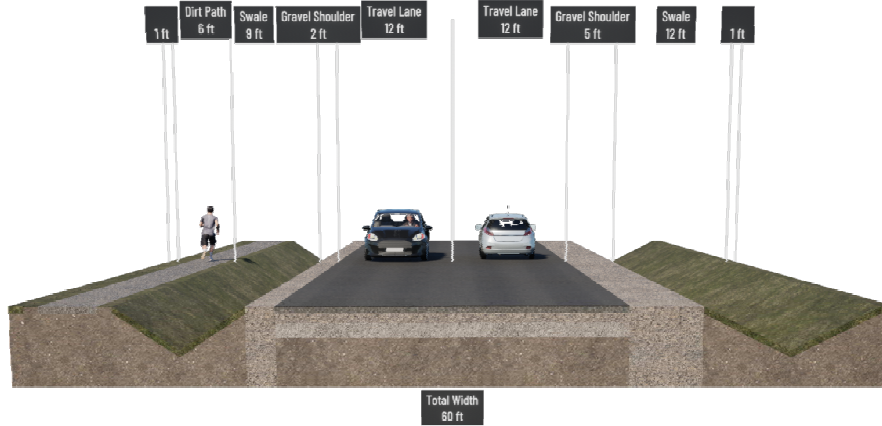
### Commercial Collector Road 60' ROW



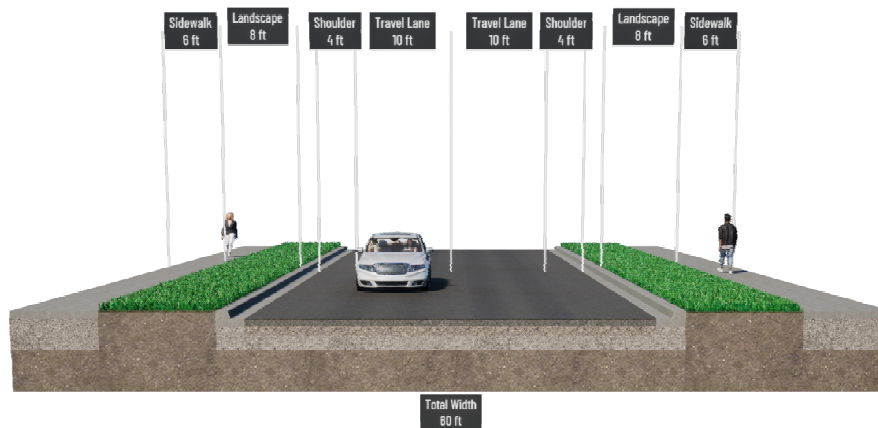
### Local Road 60' ROW



### Local Road with Trail 60' ROW





### Local Neighborhood Road 60' ROW





**Table 2: Roadway Classifications**

Lake Point Roadway Classifications		
	Classification	Characteristics
<b>Mobility</b>   <b>Access</b>	Major Arterial	ROW: 120 feet 5 lanes
	Minor Arterial	ROW: 90-120 feet 2-3 Lanes
	Collector	ROW: 60 feet 2 Lanes
	Local Street	ROW: 60 feet 2 Lanes

## ACCESS MANAGEMENT

Access spacing should vary by functional classification type. As a general rule, the greater the mobility on a roadway, the lower the accessibility. Arterials and major collectors are typically designed as major routes to allow vehicles greater ease of travel with few interruptions. These roads should have limited access points so as not to disrupt flow of traffic. In contrast, local streets experience comparatively little traffic and are designed to allow access to individual properties, which should keep the speed down.

Based on recommendations from the literature and from state-of-the-practice of other municipalities and DOTs, recommendations for minimum signalized, public street, and private access spacing have been compiled and are shown in Table 3. If access standards cannot be met, the plans will need to be ran through engineering for approval.

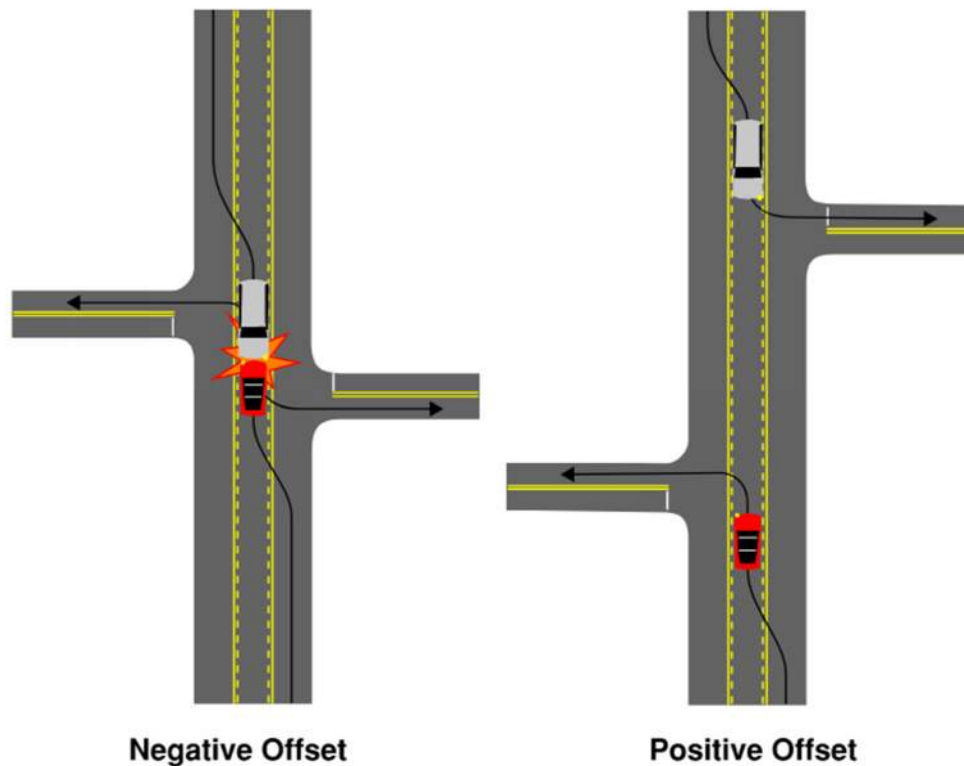
When possible, streets and accesses should line up with the street or access across the intersection. Offset intersections are categorized as either positive or negative, depending on the orientation. Negative offsets occur when left-turning movements off the major street conflict with each other. This is especially a safety concern where two-way left-turn lanes (TWLTL) exist as these become lanes to move left-turning vehicles out of the through lanes, and they are typically used to slow down over a distance of several feet. Negative offsets create potential for head-on collisions, as shown Positive offsets are preferred over negative ones, but the ideal option is to have streets line up.

**Table 3: Access Management Spacing Standards**

Street Classification	Minimum Signal Spacing (feet) <sup>1</sup>	Minimum Street Spacing (feet) <sup>1, 4</sup>	Minimum Commercial Access Spacing (feet) <sup>1, 4</sup>	Minimum Residential Access Spacing (feet) <sup>1</sup>
Major Arterial	2,640	660	330 <sup>2</sup>	n/a <sup>3</sup>
Minor Arterial	1,320	660	330	150
Collector	1,320	330	150	150
Local Street	1,320	150	150	50

**Notes:**

1. Measured centerline to centerline
2. Access to an arterial should only be granted when other reasonable access is not available to a collector or local street. If granted, the access should be limited to right-in/right-out only if possible.
3. Residential access should not be granted on major arterials.
4. Minimum Street Spacing refers to unsignalized intersection spacing; if a traffic signal is present, a traffic impact study should determine if the minimum street spacing should be longer.



**Figure 9: Offset diagram**



## TRUCK ROUTES

In order to minimize the impact of trucks on most city streets, truck routes have been designated for existing and future roadways. These truck routes are primarily located on roadways that serve commercial or industrial areas, including all state-maintained arterials located in Lake Point. The following public streets are designated as truck routes:

- SR-36
- Pole Canyon Road
- Saddleback Boulevard
- Canyon Road (future west extension)
- Mountain View Road (future north extension)
- SR-36 East Frontage Road (future)
- SR-36 West Frontage Road (future Commerce Way extension)
- Business Center Drive (future)
- Hardy Road (and future extension)

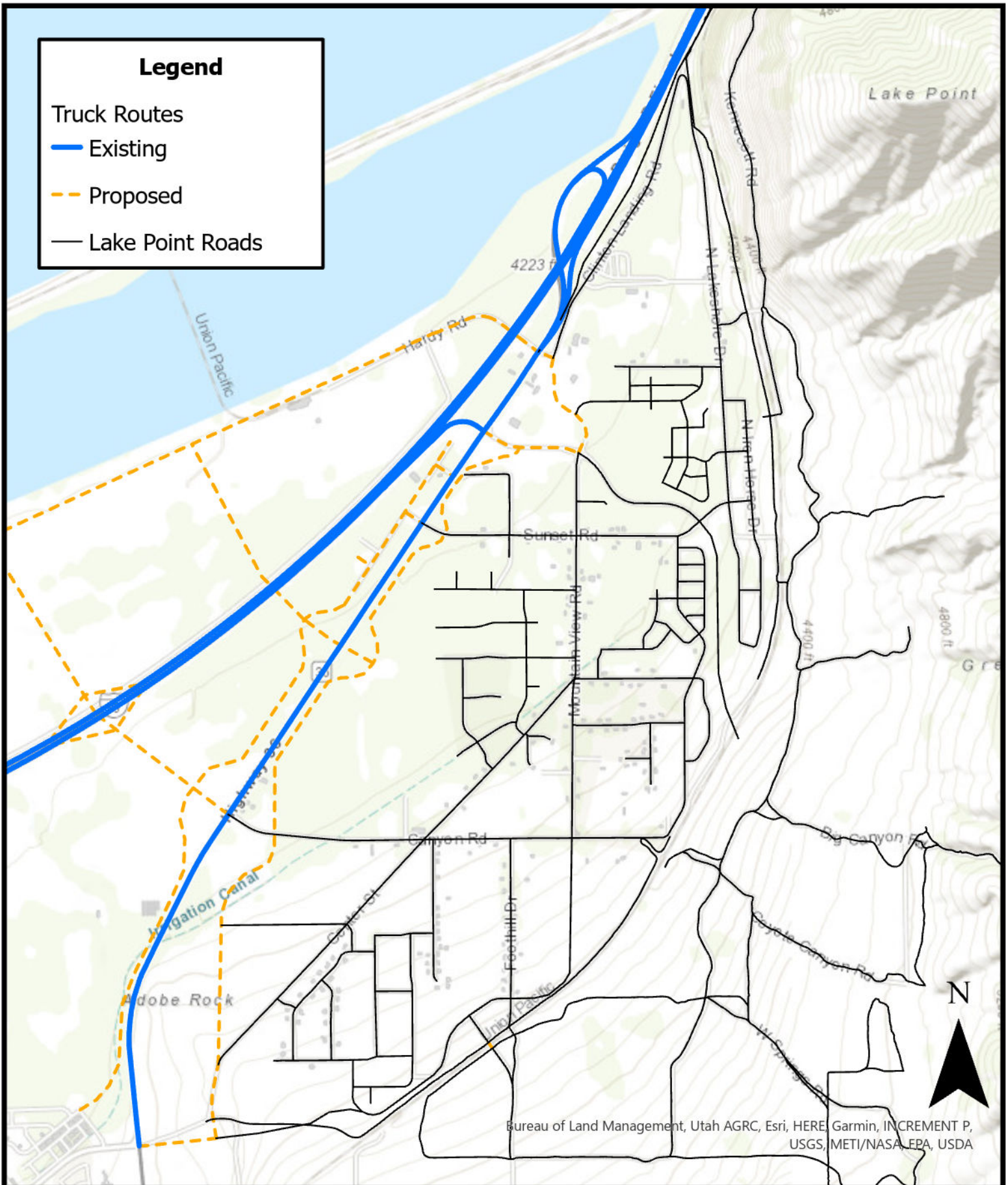
Figure 10 shows designated truck routes within Lake Point. Construction companies should be encouraged to have trucks follow these routes as much as possible. Truck restrictions may be enforced by weight limit signs at bridges over canal crossings. Currently SR-36 experiences approximately 5 to 6 percent truck traffic through Lake Point.

## LEVEL OF SERVICE ANALYSIS

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. Calculating a planning-level LOS for a roadway segment is completed based on volume-to-capacity (v/c) ratios. The volume is the average daily traffic (ADT) for the given roadway segment and the capacity is based on factors such as lane count and traffic signal spacing.

Table 4. provides a brief description of each LOS letter designation and the accompanying range of v/c ratios. A visual representation of the various levels of service is shown in Figure 11.

For the purposes of this TMP, a minimum overall performance for each of the study roadways and intersections was set at LOS D. A LOS D threshold is consistent with “state-of-the-practice” traffic engineering principles. Improvements are recommended when a roadway or intersection functions at LOS is E or F.











**Table 4: Level of Service Descriptions**

Level of Service	Description of Traffic Conditions	Volume / Capacity Ratio
A	Extremely favorable progression and a very low level of control (intersection) delay. Individual users are virtually unaffected by others in the traffic stream.	$\leq 0.30$
B	Good progression and a low level of control delay. The presence of other users in the traffic stream becomes noticeable.	$> 0.30 - 0.50$
C	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.	$> 0.50 - 0.75$
D	Marginal progression with relatively high levels of control delay. Operating conditions are noticeable more constrained.	$> 0.75 - 0.85$
E	Poor progression with unacceptably high levels of control delay. Operating conditions are at or near capacity.	$> 0.85 - 1.00$
F	Unacceptable progression with forced or breakdown operating conditions.	$> 1.00$

Source: *Highway Capacity Manual (HCM) 7th edition* (Transportation Research Board, 2022).



Figure 11: Visual representation of LOS

Level of Service (LOS)
 <p><b>LOS A</b> – Free Flow, Insignificant Delays</p>
 <p><b>LOS B</b> – Stable Flow, Minimum Delays</p>
 <p><b>LOS C</b> – Stable Flow, Acceptable Delays</p>
 <p><b>LOS D</b> – Approaching Unstable Flow, Tolerable Delays</p>
 <p><b>LOS E</b> – Unstable Flow, Significant Delays</p>
 <p><b>LOS F</b> – Forced Flows, Excessive Delays</p>



## ROADWAY CAPACITIES

The capacities for each roadway type were identified using Transportation Research Board (TRB) *Highway Capacity Manual*, 7<sup>th</sup> Edition, 2022 methodologies and based on common practice in Utah. Key factors that influence the capacity of a roadway include the number of travel lanes, presence of a two-way left-turn lane (TWLTL) or turn pockets, level of access management, and signal spacing. The assumed LOS E/F capacity thresholds for Lake Point roadways are shown in Table 5, reported as vehicles per day (vpd).

**Table 5: Roadway Capacities**

Functional Classification	Number of Lanes	Capacity (vpd)
Local or Collector	2	12,500
Minor Arterial	2-3	12,500 – 18,300
Major Arterial	5	36,800
Principal Arterial	7	50,700

## INTERSECTION LOS

Intersection LOS looks at individual intersections and provides a microscopic view of a roadway network. LOS at intersections can be broken down into directions and respective movements (left-turns, through movements, or right-turns). A detailed look at intersections should occur as frequently as necessary since they are a source of bottlenecks. The Highway Capacity Manual has divided intersections into two types, signalized and un-signalized. The methodology to calculate the delay per vehicle at an intersection is outlined in the *Highway Capacity Manual* (HCM), 7<sup>th</sup> Edition, 2022 and the subsequent delay criteria and corresponding LOS. A LOS D for intersection delay has been determined to be the acceptable limit for Lake Point. The delay thresholds for each LOS for both signalized and unsignalized intersections can be found in Table 6.

The levels of service for signalized, all-way stop-controlled (AWSC), and roundabout intersections are calculated as a weighted average of all movements. The LOS for a two-way stop-controlled (TWSC) intersection is equal to the LOS of the worst movement. Failing LOS conditions are typically experienced during the peak hours (morning and/or evening). It is not uncommon for a side street or access on busy arterials to experience LOS worse than D during the peak hours due to high traffic volumes on the major roadway. Vehicles generally learn to re-route to signalized intersections in these cases.



**Table 6: Intersection LOS Criteria**

LOS	LOS Delay Criteria (sec. / vehicle)	
	Signalized Intersections	TWSC, AWSC, & Roundabout Intersections
A	≤ 10	≤ 10
B	> 10 - 20	> 10 - 15
C	> 20 - 35	> 15 - 25
D	> 35 - 55	> 25 - 35
E	> 55 - 80	> 35 - 50
F	> 80	> 50

*Source: Highway Capacity Manual, 7<sup>th</sup> Edition, 2022*

## EXISTING CONDITIONS

This section discusses the existing roadway and intersection conditions in Lake Point. The current LOS for each of the major roadways and intersections in Lake Point were analyzed. It is important to analyze the existing conditions as this serves as a baseline with which future conditions and alternatives can be compared.

## EXISTING ROADWAY NETWORK

SR-36 is the principal arterial through Lake Point. Other major north-south collector roadways include Center Street and Mountain View Road. Saddleback Boulevard, Sunset Road and Canyon Road are the primary east-west collector roadways. Pole Canyon Road is another important east-west connection to Center Street.

Local roadways in Lake Point are a mixture of unconnected roads with cul-de-sacs in other areas. Discontinuous local road systems can lead to unnecessary congestion and delay on collector and arterial roads, as vehicles are forced to take those routes even for short trips. Therefore, it is recommended that the grid system be followed as much as possible as areas develop.

The functional classifications discussed previously were assigned to the roadways in Lake Point based on existing designations found in the Lake Point general plan. The existing roadway network map that shows the functional classifications is shown in Figure 12. Most roadways in Lake Point are maintained by the city government. SR-36 is a state roadway maintained by the Utah Department of Transportation (UDOT). The locations of traffic signals, stop signs, and other traffic control devices are shown in Figure 12.

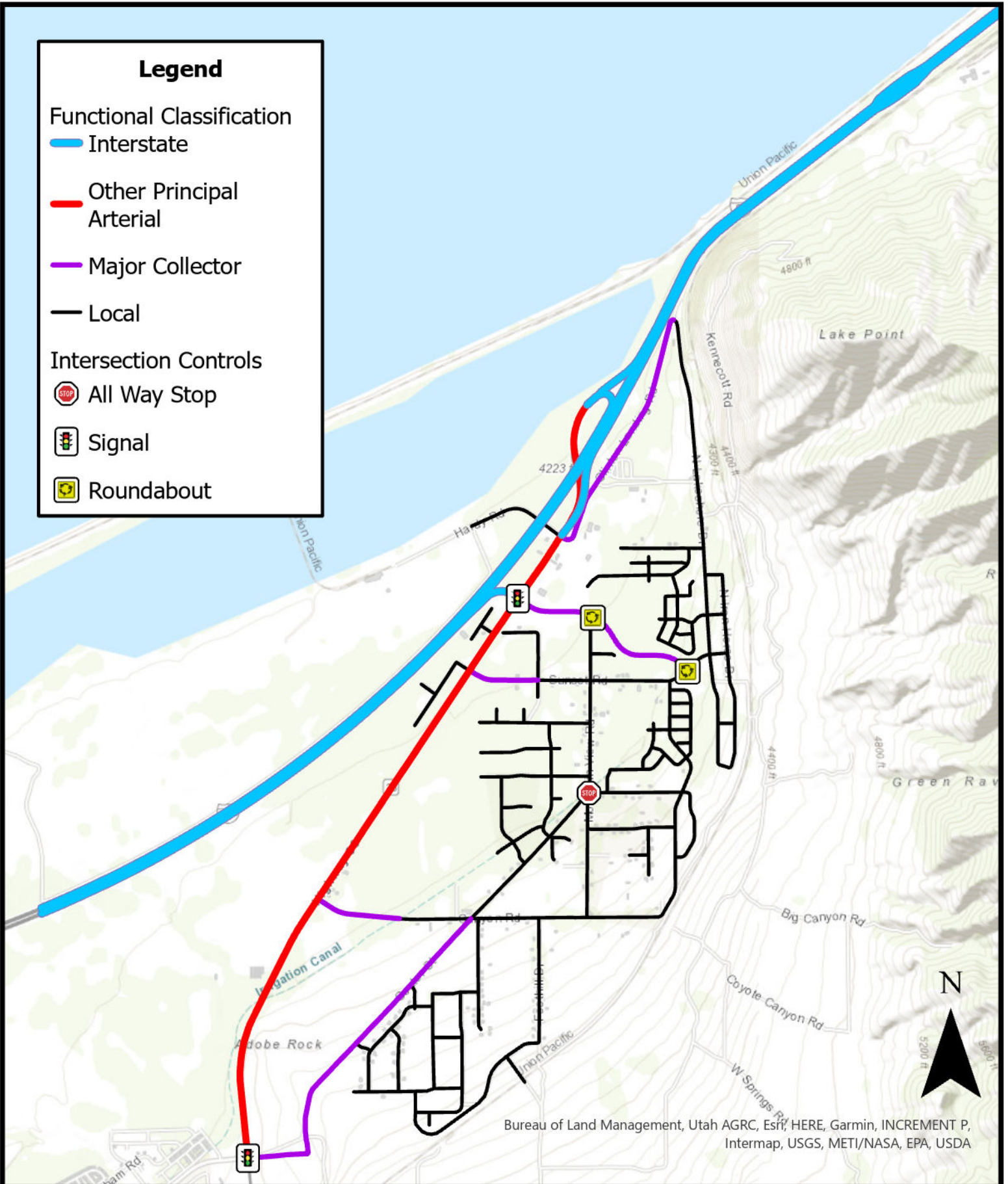
### Legend

#### Functional Classification

- Interstate
- Other Principal Arterial
- Major Collector
- Local

#### Intersection Controls

- All Way Stop
- Signal
- Roundabout





## EXISTING VOLUMES AND LOS

### *Data Collection*

To accurately identify existing conditions on the roadway network in Lake Point, the consultant team gathered traffic data. Existing traffic volumes were obtained from various sources, including the following:

- Consultant Team Data – Where UDOT data were not available, the consultant team used data collected for this and previous projects in the area. These data were collected in the form of two-way roadway counts or turning movement counts at intersections and are included in Appendix B. A map showing the data collection locations is shown in Figure 13.
- UDOT - Many of the traffic volume values on State roads and other federal aid roads were obtained from UDOT's *Traffic on Utah Highways* database, Automatic Signal Performance Metrics (ATSPM) website, or from previous studies completed on UDOT roads.

### *Roadways*

The volumes from these sources were compiled to have a comprehensive volume map of major roadways. LOS values were assigned to each roadway segment based on the volume and the LOS criteria for roadways that was described previously. The existing traffic volumes are reported as ADT in vpd along with the LOS of each roadway segment in Figure 14.

As shown, the roadways in Lake Point are currently operating within capacity, but two of the major intersections are currently operating at a poor LOS.

### *Intersections*

Evening peak hour turning movement count data were collected for several major intersections within Lake Point. Hales Engineering completed morning evening peak hour turning movement counts between 7:00 and 9:00 a.m. and 4:00 and 6:00 p.m. at the following intersections on Wednesday, July 10, 2024, and Thursday, July 11, 2024:

- Hardy Road / SR-36
- Saddleback Boulevard / SR-36
- Mountain View Road / Saddleback Boulevard
- Lake Shore Drive / Sunset Road
- Sunset Road / Mountain View Road
- Sunset Road / SR-36
- Spring Valley Lane / Cluff Lane
- Shepard Lane & Center Street / Mountain View Road
- Cobblerock Road / Shepard Lane
- Canyon Road / Center Street
- Mountain View Road / Canyon Road
- Canyon Road / SR-36
- Center Street / Pole Canyon Road
- Foothill Drive / Pole Canyon Road

Volume data at the following intersections was estimated based on counts from nearby intersections:

- Cluff Lane / Mountain View Road
- Spring Valley Lane / Center Street





# TRANSPORTATION MASTER PLAN

An intersection LOS analysis was completed for all major intersections in the Lake Point. This analysis was completed for the evening peak hour using Synchro / SimTraffic traffic modeling and simulation software, which follows HCM methodology. The evening peak hour LOS was computed for each study intersection. Multiple runs of SimTraffic were used to provide a statistical evaluation of the interaction between the intersections. LOS results are provided in Table 7 and visually in Figure 14. LOS and queueing reports are shown in Appendix D.

The major intersections in Lake Point with two exceptions are all operating at acceptable levels of service during the evening peak hour, as shown in Table 7.

**Table 7: Existing Evening Peak Hour Intersection Level of Service**

Intersection		Level of Service		
Description	Control	Movement <sup>1</sup>	Aver. Delay (Sec/Veh)	LOS <sup>2</sup>
Hardy Road / SR-36	EB/WB Stop	SET	>50	f
Saddleback Boulevard / SR-36	Signal	-	13.3	B
Mountain View Road / Saddleback Boulevard	Roundabout	-	1.6	A
Sunset Road / Saddleback Boulevard	Roundabout	-	1.9	A
Lake Shore Drive / Sunset Road	EB/WB Stop	WBL	5.7	a
Sunset Road / Mountain View Road	NB/SB Stop	SBT	6.3	a
Sunset Road / SR-36	EB/WB Stop	WBL	>50	f
Spring Valley Lane / Cluff Lane	EB/WB Stop	EBT	5.3	a
Cluff Lane / Mountain View Road	EB Stop	EBL	5.6	a
Shepard Lane & Center Street / Mountain View Road	AWSC	-	3.8	A
Cobblerock Road / Shepard Lane	AWSC	-	2.9	A
Spring Valley Lane / Center Street	SEB Stop	NEL	3.4	a
Canyon Road / Center Street	SWB/NEB Stop	SWT	7.8	a
Mountain View Road / Canyon Road	EB/WB Stop	SBL	6.1	a
Canyon Road / SR-36	WB Stop	WBL	18.6	c
Center Street / Pole Canyon Road	SB Stop	SBR	2.4	a
Foothill Drive / Pole Canyon Road	NWB Stop	NWL	3.1	a

1. Movement indicated for unsignalized intersections where delay and LOS represents worst movement. SBL = Southbound left movement, etc.

2. Uppercase LOS used for signalized, roundabout, and AWSC intersections. Lowercase LOS used for non-AWSC unsignalized intersections.

Source: Hales Engineering, May 2025

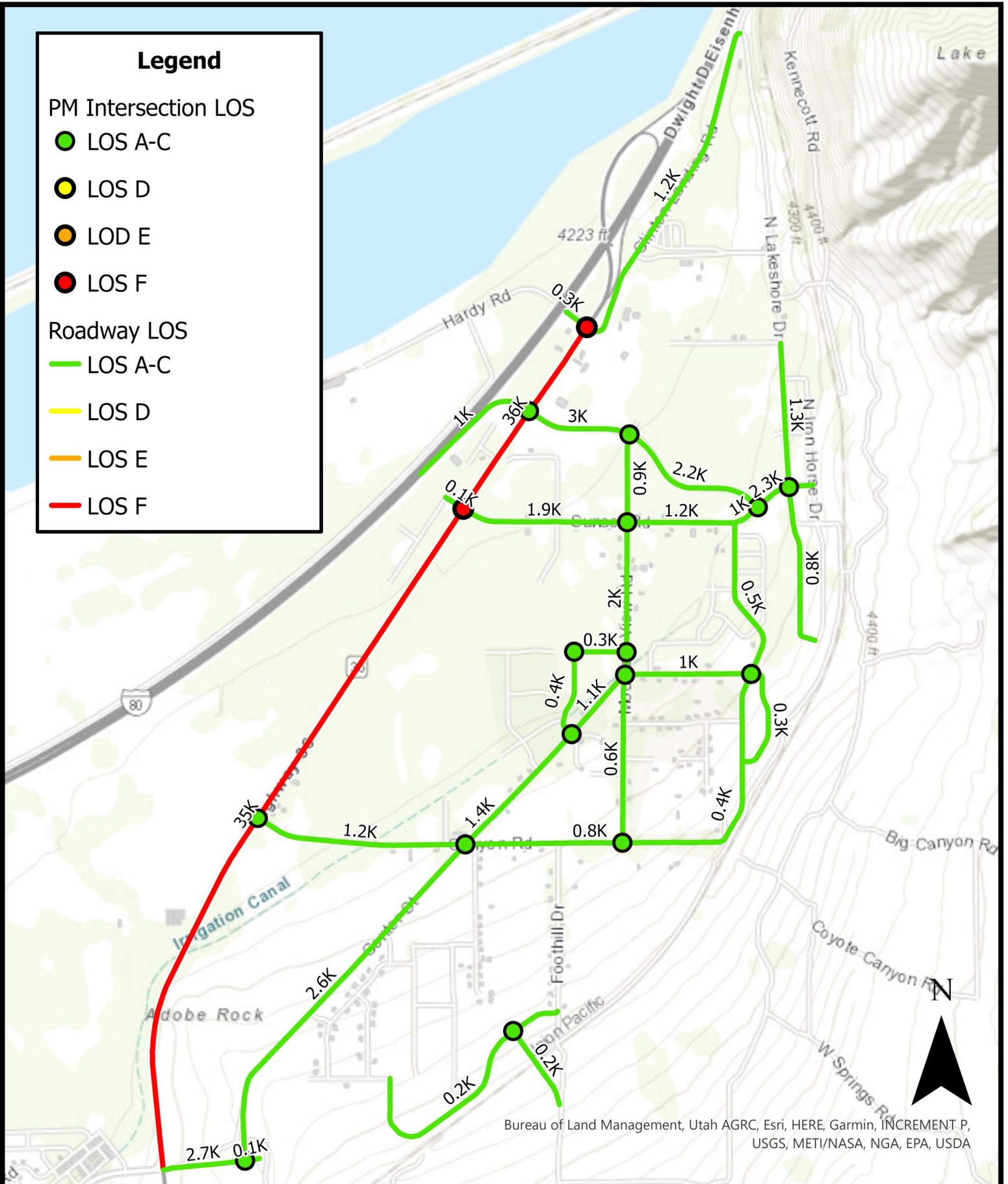
### Legend

PM Intersection LOS

- LOS A-C
- LOS D
- LOS E
- LOS F

Roadway LOS

- LOS A-C
- LOS D
- LOS E
- LOS F





## FUTURE (2050) CONDITIONS

Future ADT roadway volumes were projected based on the anticipated development in Lake Point. This was done based on future land use plans discussed previously in this report. These tasks were completed to determine roadway ADT volumes, which were then converted to turning movement counts at key intersections.

## TRAFFIC VOLUMES AND LOS

Future traffic volumes were estimated using the USTM and future land use projections. First, a no-build analysis was completed to determine LOS results without any additional projects or connections. However, regional projects that included the Mid Valley Highway and SR-36 widening to 3 lanes per direction were assumed. The future volumes were calibrated using existing traffic counts to improve accuracy. The future (2050) no-build traffic volumes and LOS are shown in Figure 15.

## TRANSPORTATION IMPROVEMENT PROGRAM

Based on the level of service results, discussions with city officials, and previous plans, Hales Engineering developed a Transportation Improvement Program (TIP) for roadway projects in the Lake Point. Projects were classified into the following two categories:

- Programmed: Projects that are recommended to be completed by 2050 to mitigate existing and/or future (2050) transportation congestion.
- Vision: Projects to be considered in the future to complete a grid network as future development occurs.

A list of projects can be found in Table 8. SR-36 is the principal arterial that moves vehicles in and out of Lake Point. Future UDOT plans are anticipated to widen the arterial to a 7-lane cross section. Several roadway expansion projects serve to develop a minor arterial through Lake Point created from piecing together Pole Canyon Road, Mountain View Road, and Saddleback Boulevard. The cross section of the arterial would vary from a 5-lane to a 2-lane cross section. New connections are proposed to connect Pole Canyon Road with Mountain View road.

The addition of commercial collector frontage roads east and west of SR-36 are aimed at serving the future commercial corridor of Lake Point. Other important collector roads include the Mountain View Rd from Saddleback Blvd to Clinton Landing connection and a Canyon Road extension that could eventually tie into a future interchange at I-80. It is anticipated that this would occur in conjunction with the proposed SR-201 extension (per the Utah Unified Transportation plan) which would provide people traveling in and out of Tooele Valley with a secondary roadway. The SR-201 extension alignment shown in this plan ties into SR-36 near the I-80 Interchange. However, other alignments may also align with the vision for the area as long as it is not located east of the railroad tracks east of Lake Point, which is not desired by Lake Point City elected officials, staff, and residents. It is recommended that the Lake Point officials coordinate with UDOT on the timing of these roadway improvements in conjunction with future widening plans on SR-36.





**Table 8: Recommended Phased Improvement Projects**

#	Location	Type	Description	Jurisdiction	Cost
<b>Programmed Projects</b>					
1	Mountain View Road from Saddleback Boulevard to Clinton Landing	New	2-Lane Collector	Lake Point	\$800,000
2	Pole Canyon Road Connection <sup>1</sup>	New	2-Lane Collector	Lake Point	\$1,500,000
3	SR-36 East Frontage Road	New	2-Lane Commercial Collector	Lake Point	\$8,800,000
4	SR-36 West Frontage Road (Commerce Drive Extension)	New	2-Lane Commercial Collector	Lake Point	\$7,700,000
5	Business Center Drive	New	2-lane Commercial Collector	Lake Point	\$600,000
6	Saddleback Blvd From SR-36 to Mountain View Rd	Restripe	3-Lane Arterial	Lake Point	<\$100,000
7	SR-201 Extension	New	Freeway Extension	UDOT	
<b>Vision Projects</b>					
8	SR-36 East Frontage Road to Center Street Connection	New	2-Lane Local Road	Lake Point	
9	Canyon Road Extension and I-80 Interchange	New	5-Lane Arterial and Interchange	UDOT/Lake Point	
10	Hardy Road Extension	New	2-Lane Collector	Lake Point	
11	Business Center Drive I-80 Flyover <sup>2</sup>	New	2-lane Collector	Lake Point	
12	Saddleback Blvd Southeast Connection	New	2-Lane Collector	Lake Point	
13	Pole Canyon Road Railroad Flyover	New	2-Lane Minor Arterial	Lake Point	

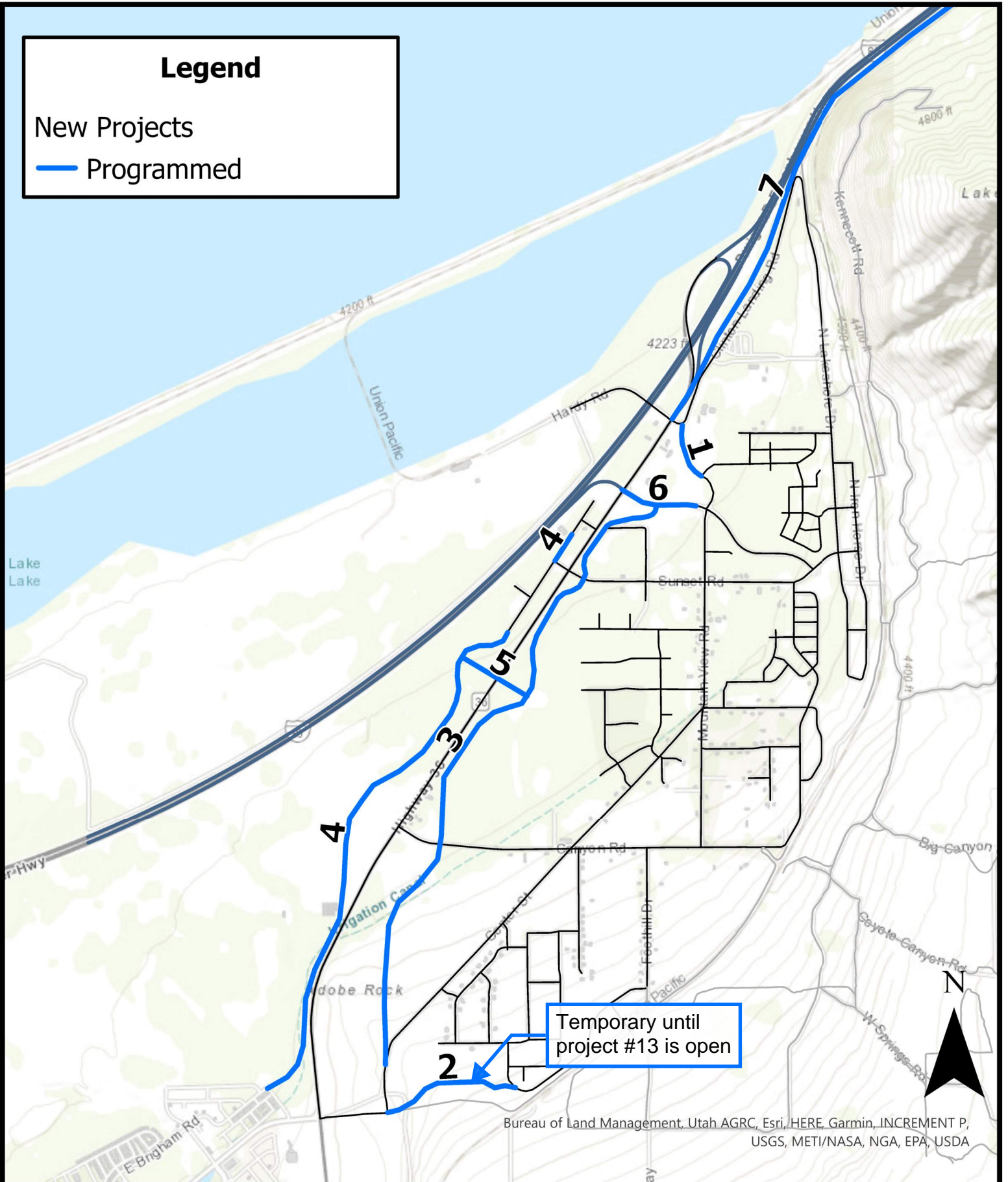
1. Temporary until Project #13 is constructed
2. To be completed only if Canyon Road interchange is not built

New local roads are also proposed to connect the proposed collector roads, such the Center Street with the east SR-36 frontage road. Other local roads are proposed west of SR-36, such as the west Saddleback flyover and the connection with Hardy Road. The programmed roadway projects are shown in Figure 16a and the vision projects in 16b. A map of the recommended future (2050) roadway network and intersection control is shown in Figure 17.

# Legend

New Projects

— Programmed



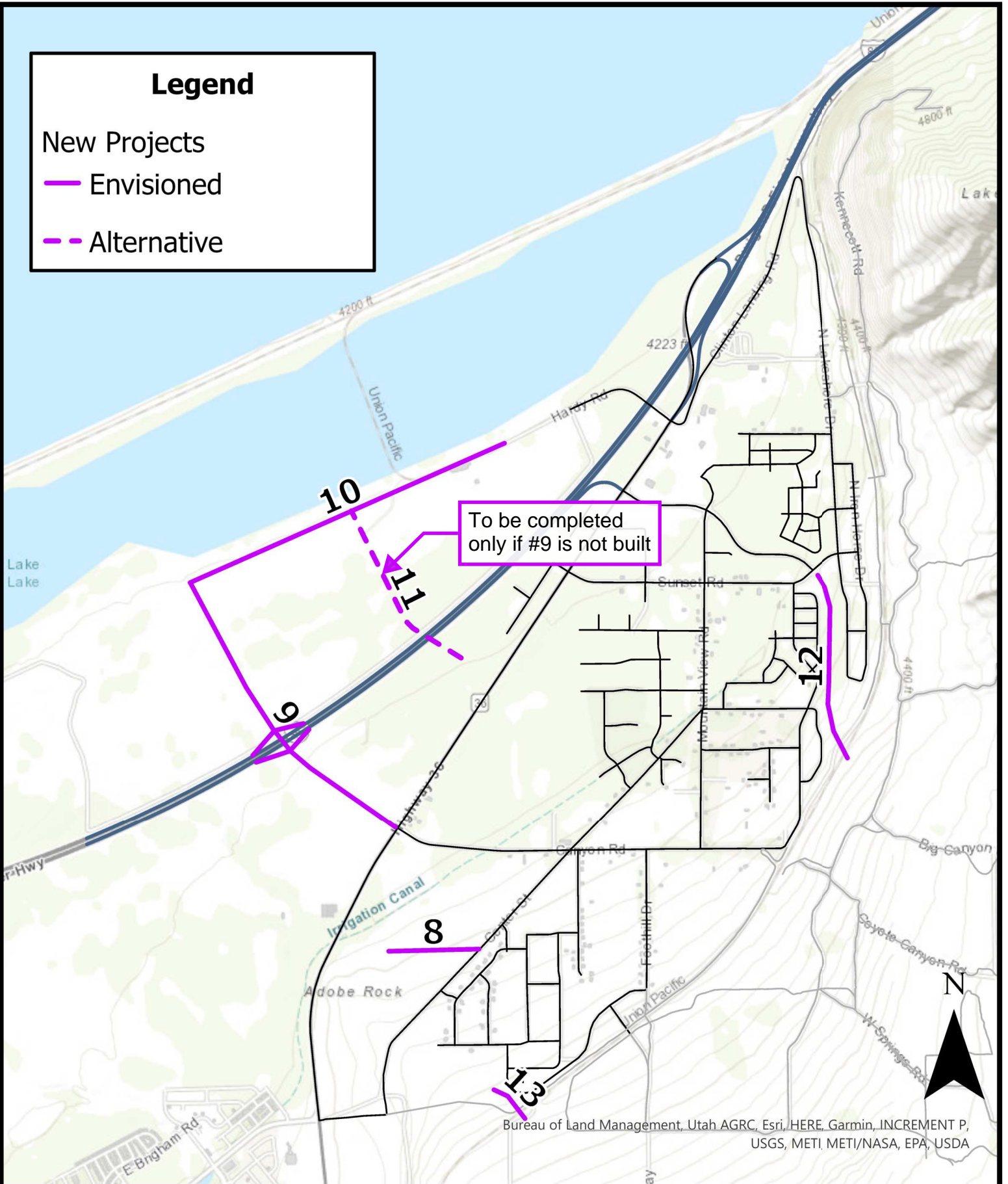
Bureau of Land Management, Utah AGRC, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA

# Legend













New Projects

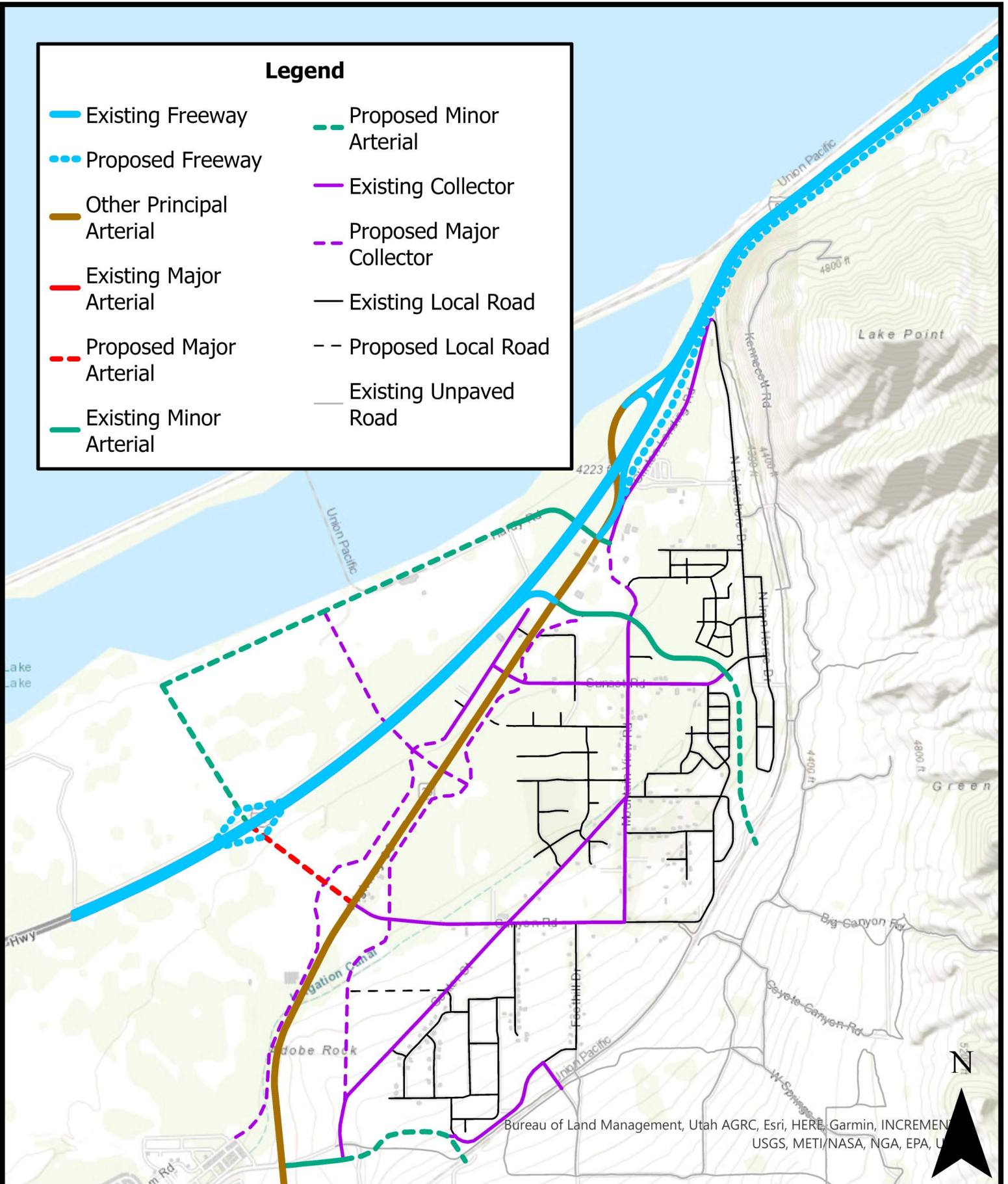
— Envisioned

- - - Alternative



### Legend

- |  |  |
|--|--|
|  Existing Freeway         |  Proposed Minor Arterial  |
|  Proposed Freeway         |  Existing Collector       |
|  Other Principal Arterial |  Proposed Major Collector |
|  Existing Major Arterial  |  Existing Local Road      |
|  Proposed Major Arterial  |  Proposed Local Road      |
|  Existing Minor Arterial  |  Existing Unpaved Road    |





## PAVEMENT AND DRAINAGE ASSESSMENT

Hales Engineering worked with Ensign Engineering to complete a pavement and drainage assessment of existing city roadways. This can be found in Appendix E.

## BUILD LOS

With the proposed improvements, all Lake Point roadways are anticipated to operate at LOS D or better, as shown in Figure 18. The remaining intersections with a poor LOS are located along the UDOT facility, SR-36. Future (2050) evening peak hour LOS results are shown in Table 9. It is likely that an innovative intersection of some type, such as a continuous flow intersection (CFI), may be needed at the Canyon Road / SR-36 intersection if a new interchange is constructed at Canyon Road.

**Table 9: Future (2050) Build Evening Peak Hour Level of Service**

Intersection		Level of Service		
Description	Control	Movement <sup>1</sup>	Aver. Delay (Sec/Veh)	LOS <sup>2</sup>
Hardy Road / SR-36	EB/WB Stop	SER	>50	f
Saddleback Boulevard / SR-36	Signal	-	16.9	B
Mountain View Road / Saddleback Boulevard	Roundabout	-	1.9	A
Sunset Road / Saddleback Boulevard	Roundabout	-	2.1	A
Lake Shore Drive / Sunset Road	EB/WB Stop	EBT	5.9	a
Sunset Road / Mountain View Road	NB/SB Stop	SBT	7.5	a
Sunset Road / SR-36	Signal	-	9.5	A
Spring Valley Lane / Cluff Lane	EB/WB Stop	WBT	5.0	a
Business Center Road / SR-36	Signal	-	44.3	D
Cluff Lane / Mountain View Road	EB Stop	EBL	6.1	a
Shepard Lane & Center Street / Mountain View Road	AWSC	-	4.6	A
Cobblerock Road / Shepard Lane	AWSC	-	3.0	A
Spring Valley Lane / Center Street	SEB Stop	SEL	3.9	a
Canyon Road / Center Street	SW/NE Stop	SWT	7.5	a
Mountain View Road / Canyon Road	EB/WB Stop	WBT	5.8	a
Canyon Road / SR-36	Signal	-	>80	F
Center Street / Pole Canyon Road	SB Stop	SBL	6.4	a
Foothill Drive / Pole Canyon Road	NWB Stop	NWL	6.7	a

1. Movement indicated for unsignalized intersections where delay and LOS represents worst movement. SBL = Southbound left movement, etc.

2. Uppercase LOS used for signalized, roundabout, and AWSC intersections. Lowercase LOS used for non-AWSC unsignalized intersections.

Source: Hales Engineering, February 2025

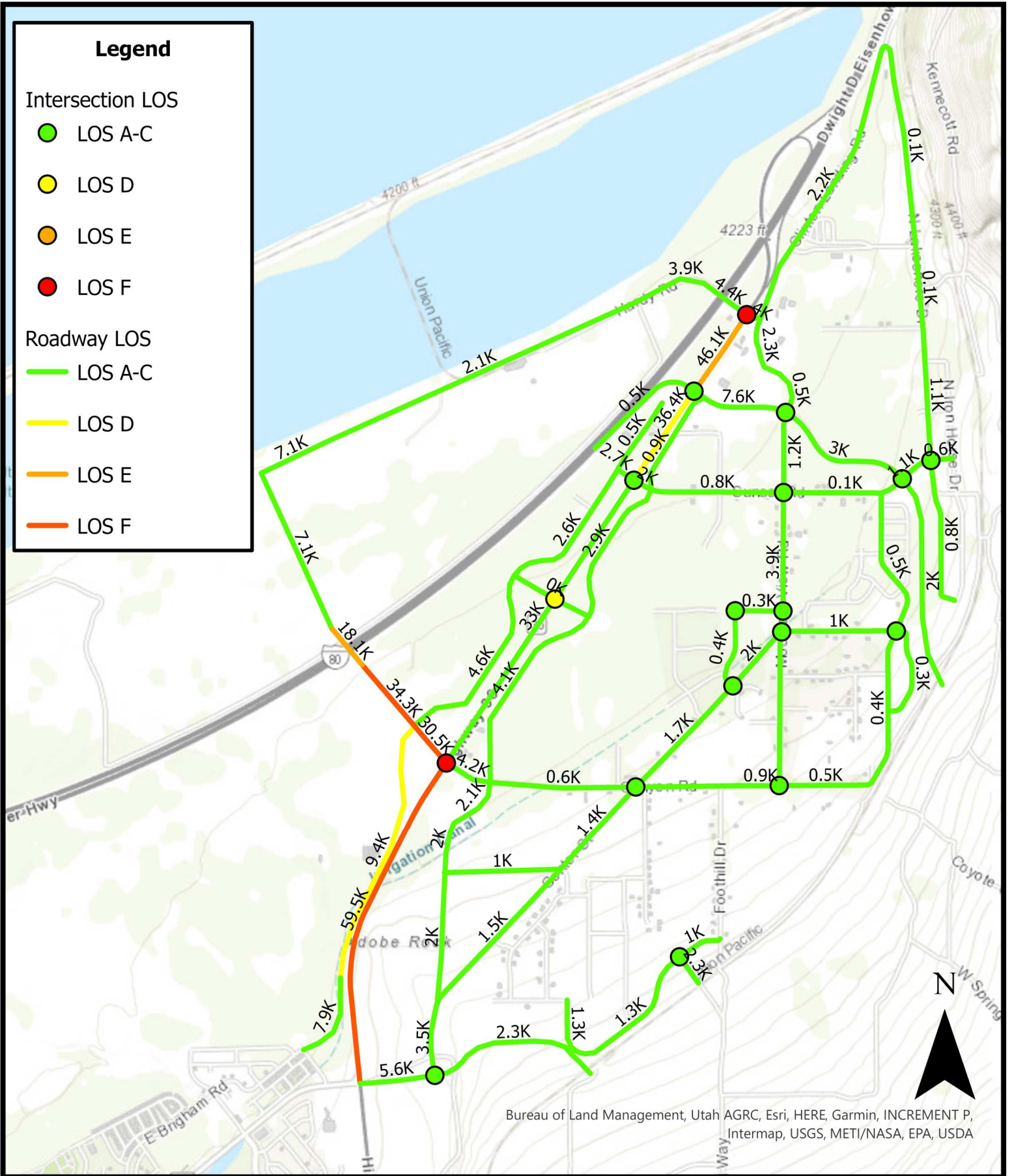
### Legend

#### Intersection LOS

- LOS A-C
- LOS D
- LOS E
- LOS F

#### Roadway LOS

- LOS A-C
- LOS D
- LOS E
- LOS F



Bureau of Land Management, Utah AGRC, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

A gravel path leads through a grassy field. In the foreground, a large, light-colored rock sits on the path. In the background, a large green tree stands on the left, and a signpost is visible. The sky is blue with scattered white clouds. The overall scene is bright and open.

# **PUBLIC TRANSIT & ACTIVE TRANSPORTATION**



## PURPOSE

A transportation system is composed of more than roadways. It also includes provisions for other modes of transportation including public transit, cycling, and walking. The purpose of this section is to discuss these modes and how Lake Point can improve the infrastructure that facilitates these modes.

## PUBLIC TRANSIT

Public transportation in Lake Point is served by the Utah Transit Authority (UTA). Currently, public transportation within city limits includes two bus routes. There is one existing UTA bus stop that services Lake Point on Saddleback Boulevard, which is served by Route 451 and F453. Route F453 has headways of approximately 1 hour between 7 AM and 3 PM and travels between Tooele Main Street and the Salt Lake City North Temple Frontrunner Station via SR-36, I-80, Lake Point Center Street, and North Temple. Route 451 follows a nearly identical route and has headways of 30 minutes towards Salt Lake City from 5 AM to 8 AM and from Salt Lake City from 4 PM to 7PM to serve commuters with regular office hours.

Future transit projects could include adding an internal route on Mountain View and Center Street to better serve Lake Point residents. Adding a park and ride lot at the LDS Church parking lot on Center Street would provide residents with an easier way to use the bus. Similar park and ride arrangements with the church have been made in Tooele and throughout the UTA service area. In the long run, moving the bus route to the proposed SR-36 frontage road would serve a commercial corridor would be ideal. A park and ride near Canyon Road could also serve Lake Point residents. Figure 19 shows the existing and some potential bus routes to consider in Lake Point.

## ACTIVE TRANSPORTATION

Providing safe and convenient facilities for pedestrian, bicycle, and equestrian modes in Lake Point is critical to maintaining beautiful scenery and promoting active transportation. If citizens have easy access to these facilities, use of the non-motorized modes of travel will increase. Lake Point has many existing trails. However, there are also some additions that could be made to improve the system.

This section is a supplement to the parks and recreation element of the General Plan. Lake Point currently has a growing network of these Multi-use trails facilities. A Multi-use trail is a separate path designed for non-motorized traffic such as pedestrians, bicycles, and horses. Other names for these facilities include “shared-use paths.”

Future multi-use trails were identified based primarily on the Lake Point General Plan (November 2022), the Tooele County transportation master plan, and the UDOT Trail network proposals.

Existing and proposed multi-use trail facilities are shown in Figure 20. The purpose of the proposed facilities is to connect existing facilities and to plan for facilities in developing areas.

**Legend**



Bus Stop

Proposed Park and Ride Lot Location



Center Street (LDS Church)



SR-36 Frontage Road

Transit Routes

451

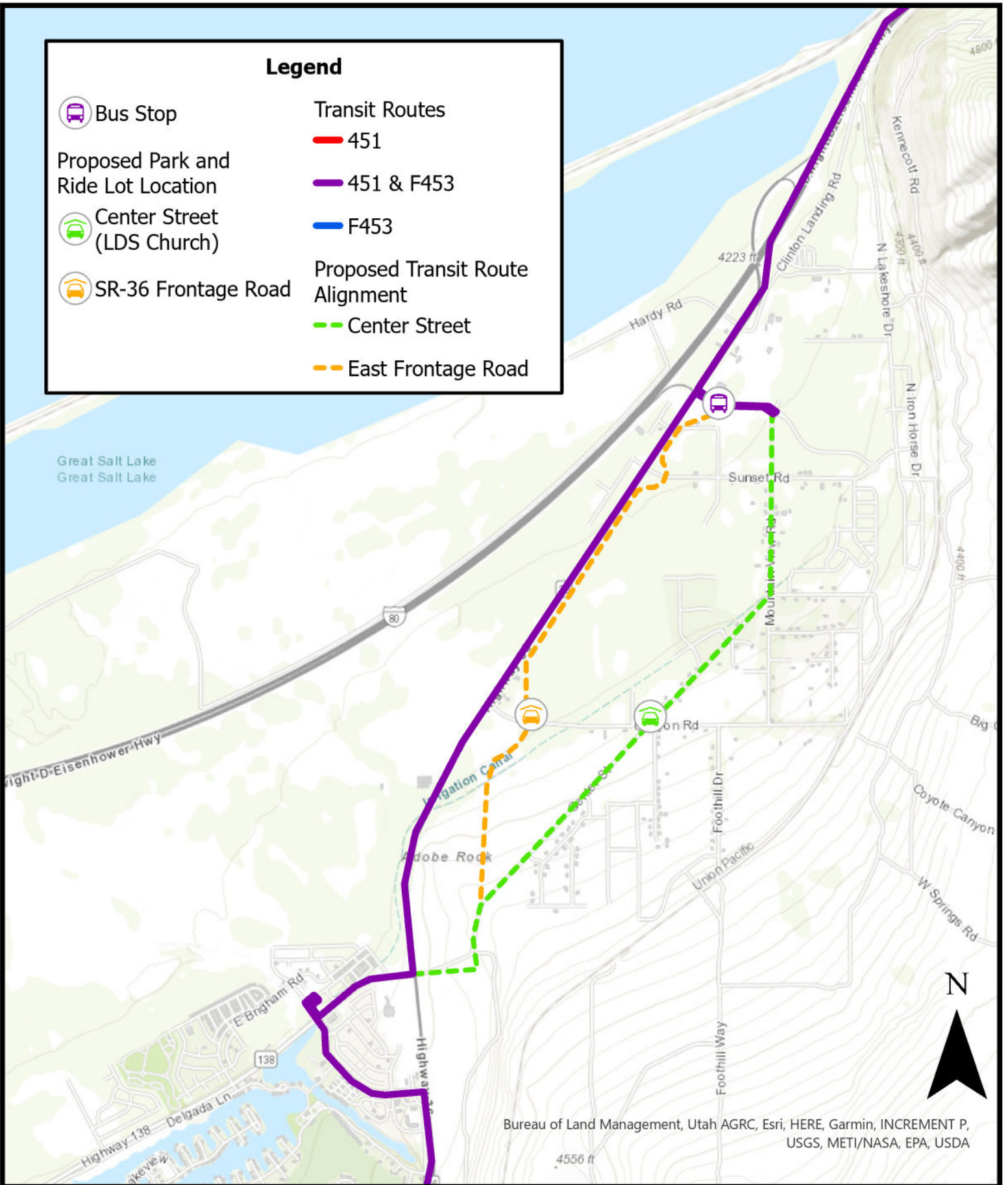
451 & F453

F453

Proposed Transit Route Alignment

Center Street

East Frontage Road



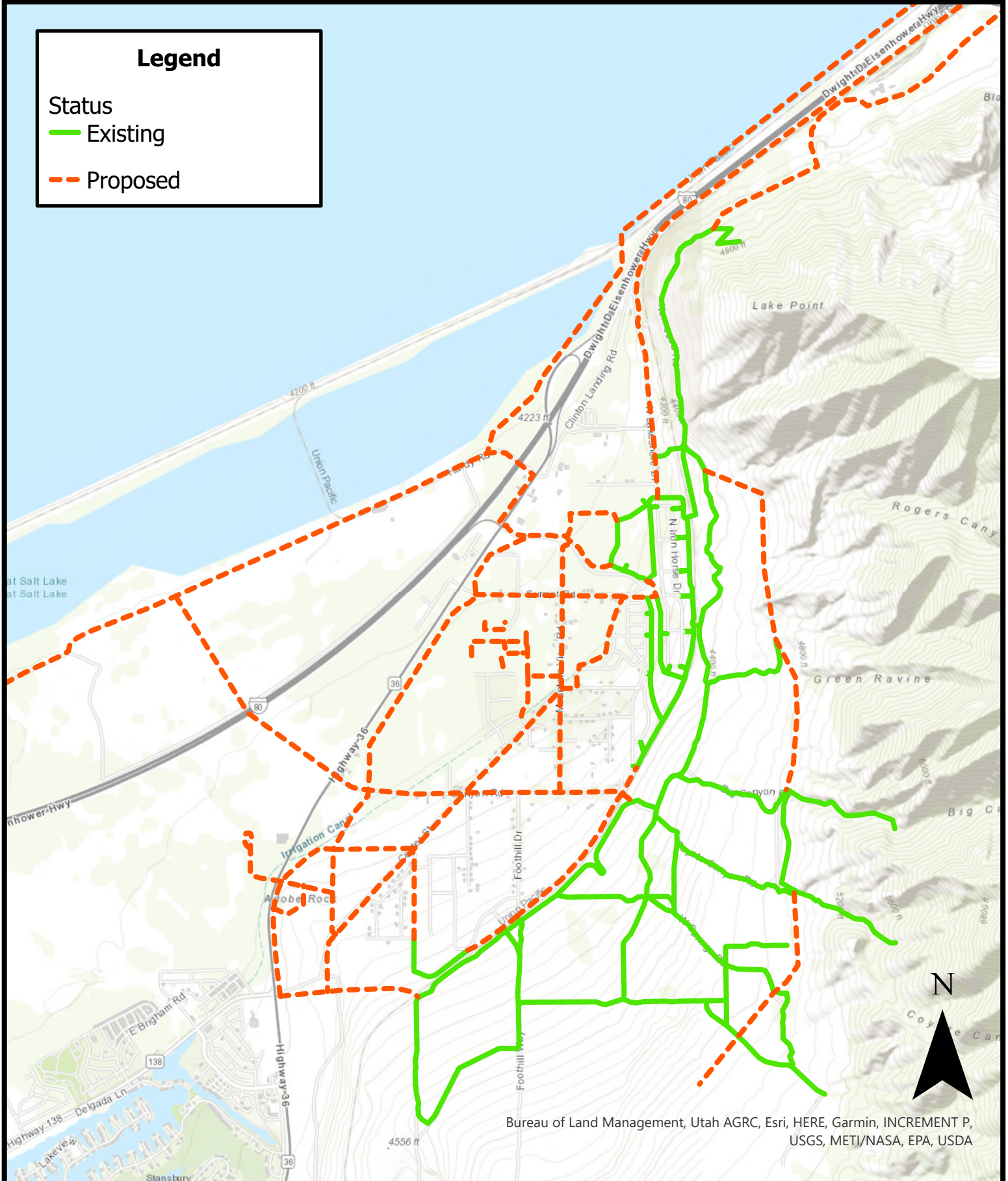
Bureau of Land Management, Utah AGRC, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

# Legend

Status

Existing

Proposed



Bureau of Land Management, Utah AGRC, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

# TRANSPORTATION SAFETY & POLICY

A photograph of a road crossing a railway track. The road is paved and has a yellow-painted crosswalk. On either side of the road, there are railway signal lights. The background shows a wide, flat landscape with a body of water and mountains in the distance under a blue sky with some clouds.



## PURPOSE

The purpose of this chapter is to analyze the safety of the existing road network in Lake Point and to recommend improvements. In addition, potential traffic calming measures and access management strategies are presented.

## SAFETY HOTSPOTS

This section addresses safety concerns at existing intersections in Lake Point. Factors including crash history, sight distance, and intersection offset were examined to determine if any mitigations are needed to improve safety. Crash data are protected under 23 USC 409.

Most of the crashes reported within the limits of Lake Point are centered on SR-36 and its cross-streets. The intersections of Hardy Road and Saddleback Boulevard have the most crashes reported. Sunset Road and Canyon Road are also common locations for crashes. Rear end crashes are common crash types on SR-36.

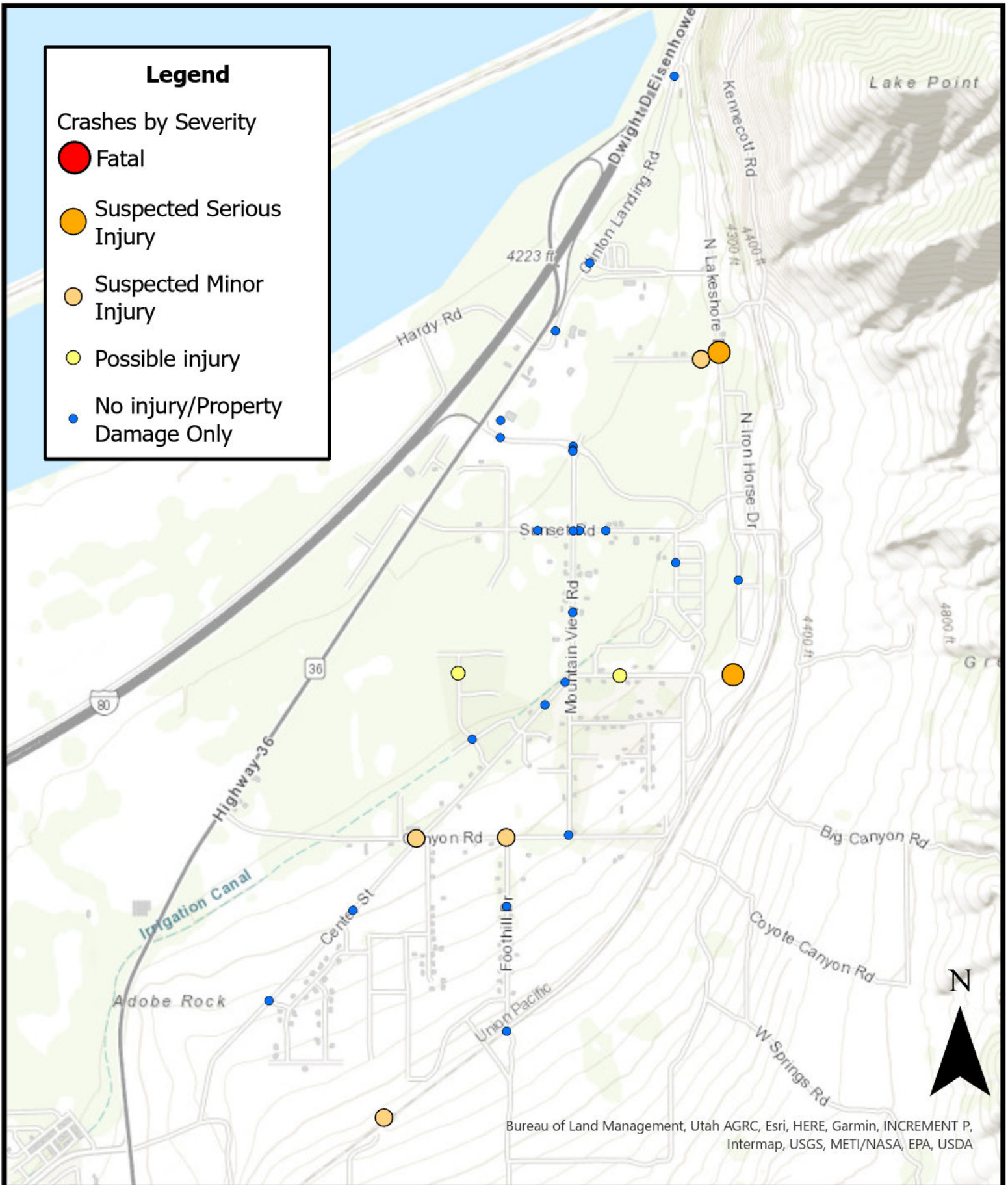
Outside of the SR-36 corridor, the number of crashes is too low to draw clear crash trends. However, many of these crashes share common characteristics. A number of crashes include ATVs and off-roading vehicles driving on dirt roads. A number of crashes include collisions with objects such as fences, poles, mailboxes, parked vehicles, trailers, wildlife, and domestic animals. Some of these crashes were a results of impaired driving, disregarding stop signs, or improper yielding in roundabouts. It is recommended that as the city is built out, that the roads be built to standard while also implementing traffic calming where appropriate. A map of the crashes from the previous 5 years within Lake Point, excluding the SR-36 corridor, is shown in Figure 21.

## TRAFFIC CALMING

The purpose of this section is to outline the specific traffic calming measures that could be considered in Lake Point. These are the most common measures used around the country. Other measures not listed here could be considered within a traffic study and in consultation with Lake Point officials.

Non-physical / roadside traffic calming measures are those where no physical construction or modification to the roadway and traveled way. These measures are often less costly and are often considered before other traffic calming measures because they are easy to implement and remove if deemed ineffective.

Physical measures consist of both horizontal and narrowing measures within the traveled way. These include objects or design elements that force vehicles to deviate from their straight line of travel causing them to reduce speeds as they within a more constrained space.





## SPEED ENFORCEMENT

Targeted speed enforcement by local law enforcement agencies can have a significant impact on the prevailing speed in certain locations. Enforcement efforts can be targeted at specific locations at certain times of the day to encourage drivers to comply with the posted speed limit.



## DRIVER FEEDBACK SIGNS

Driver feedback signs can help drivers be more aware of their speed in relation to the posted speed limit. Driver feedback signs can be permanently mounted, installed temporarily, or mounted on a trailer. In each case the current speed of the approaching vehicles is detected and shown on a digital display, along with the posted speed limit on a static display.

## LANE STRIPING

Lane striping not only delineates the lane of travel, but can create a narrow feel on the roadway without narrowing the paved surface. The perceived narrowing can encourage some drivers to reduce speeds. Lane striping can also be used to create bicycle lanes, parking spaces, or delineate other uses.



## SIGNAGE

The placement of signage such as speed limit signs or signs dictating various restrictions can be used for traffic calming purposes. Restriction-type signs can include signs prohibiting trucks, turning movements, through movements, or others. Signage may also include wayfinding signage or city roadway gateway features specific to Lake Point.



## SPEED LEGENDS

Speed legends consist of letters and numbers painted on the roadway surface, usually in conjunction with roadside mounted signs, indicating the posted speed limit. These legends help call better attention to speed limits and speed limit changes than a standalone speed limit sign.



## SIDE TREATMENTS

Side treatments include improvements such as curb/gutter, sidewalk, and trails that provide safe pedestrian walking areas and tend to reduce vehicle speeds.

## LANDSCAPING

Landscaping includes park strips and other landscaped areas to the side of the roadway. These areas may include trees and other plants that constrain the driver's view horizontally, resulting in slower travel speeds.



## TRAFFIC CIRCLE

Traffic circles are raised islands, usually circular in shape, that are constructed in the center of an intersection. The presence of these features requires that vehicles slow down to navigate around the traffic circle.



## ROUNDBABOUT



A roundabout is like a traffic circle in that it features a circular center island. However, roundabouts are generally much larger and have raised islands on the approaches to divert traffic in the direction of the travel in the roundabout. Vehicles approaching a roundabout yield to traffic already in the roundabout. Due to the large footprint required to construct a roundabout, this traffic calming measure is generally unfeasible in neighborhoods which are already built out.

## LATERAL SHIFT

A lateral shift requires traffic to shift to one side. This can be done with striping, curb/gutter, or a combination of both. The lanes only shift once and usually occur near an intersection approach. Appropriate tapers should be designed with these shifts per standards from the American Association of State Highway and Transportation Officials (AASHTO)





## LANDSCAPED MEDIAN ISLAND

A landscaped median island includes a raised median area in the middle of the roadway. The median island can include vegetation as desired, though consideration to the maintenance of plants should be given as well. These median islands are effective in slowing vehicles, especially if side treatments are provided to the roadside.

## ROAD DIET

A road diet consists of converting an existing roadway to a smaller cross-section and narrowing the overall paved vehicle traveled way. This typically includes removing one travel lane on either side for roadways with two or more lanes per direction. A traffic study should consider vehicle traffic volumes to ensure that vehicle level of service will be at an acceptable level after the road diet is implemented. By doing a road diet, there are more opportunities for pedestrian and bike facilities such as bike lanes, cycle tracks, and trails.



## ROAD NARROWING

Road narrowing involves narrowing the overall roadway traveled width and/or narrowing individual travel lanes. This can be accomplished with striping at a minor level and physical constraints at a major level. Travel lanes could be striped to a width as narrow as 10 feet when traffic calming is justified. A traffic study reviewing this option should consider overall traffic and heavy vehicle volumes that use the roadway, as heavier trucks require wider areas to maneuver.

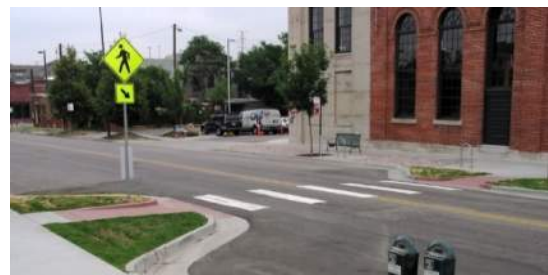


## BULB-OUTS / NECKDOWNS

Bulb-outs / neckdowns are curb extensions at intersection approaches. These curb extensions narrow the lane at the approach, shorten the curb radius, and result in lower speeds. Bulb-outs / Neckdowns also shorten crossing time and distance for pedestrians.

## CHOKERS

Chokers are curb extensions that occur midblock, as opposed to neckdowns which occur at intersections. Chokers create a narrowed traveled way, resulting in lower speeds. These typically occur at crosswalks and give pedestrians better visibility to vehicles and vice versa.





## RAISED CROSSWALK

A raised crosswalk provides a safe pedestrian crossing location with better visibility. With the pedestrians walking path not changing vertically, it prioritizes the pedestrian and causes vehicles to slow down to navigate the raised median. The implementation of raised crosswalks should consider emergency vehicle access and snowplows to ensure that these large vehicles can navigate the designed raised crosswalk. Typically, these raised crosswalks should be considered only for

local and collector roads.

## TRAFFIC IMPACT STUDIES

Hales Engineering has developed traffic impact study (TIS) guidelines for Lake Point to use going forward. While this TMP provides a high-level overview of transportation needs and projects, a traffic impact study provides greater detail for intersection operations and improvements near new development. By requiring these studies for future development, city officials will know how a certain project will impact traffic flow and what improvements the developer may need to complete for their project to be built. The TIS guidelines are found in Appendix F.

# CONCLUSION

1931





## OVERVIEW

The purpose of this TMP for Lake Point is to plan for the future multi-modal transportation needs of Lake Point residents. The following tasks were completed as a part of this TMP:

- The land use and socioeconomic characteristics were reviewed and summarized.
- The functional classification of roadways was redefined.
- Data were collected to summarize the existing traffic volume conditions.
- Future volumes in full-build conditions were projected using development predictions from Lake Point officials and standard rates published by ITE.
- A LOS analysis was performed to identify existing and future transportation needs.
- Improvements were recommended to support future growth.
- Locations for future roadways were identified.
- Truck routes on existing and future roadways were identified.
- The public transit opportunities were proposed.
- Recommendations were given regarding active transportation facilities.
- Several transportation safety management strategies were outlined.

## NEXT STEPS

It is recommended that the following steps be taken to implement the proposed improvements and recommendations of this study:

- Implement this TMP and pursue funding for roadway projects as needed.
- Require that the trip generation for all new developments be calculated to determine its impact on city roadways. With each new development that generates at least 100 peak hour trips, require that a traffic impact study be completed to analyze nearby intersections to determine needed improvements.
- Continue to communicate regularly with UDOT on current and future roadway improvement needs within Lake Point.
- Work with UTA to extend public transportation options
- Work with the State's Office of Outdoor Recreation, Bike Utah, and other agencies to apply for grant funding to increase the number of trails and active transportation/recreation options for Lake Point residents. Install bicycle and pedestrian friendly facilities (bike racks, water stations, etc) at key locations for public access.