



December 18, 2023

Robert Lissner
Lifestyle Homes TND
4790 Caughlin Parkway PMB 519
Reno, NV 89519

Existing Traffic Volumes & Level of Service – White Lake Parkway

Dear Mr. Lissner,

This letter provides traffic data information and an estimation of roadway segment level of service on White Lake Parkway in the vicinity of Crystal Canyon Boulevard. This information is provided in support of the proposed industrial and commercial land uses on APN 087-382-02 and APN 087-010-41 located along White Lake Parkway.

Existing Traffic Volumes on White Lake Parkway

The NDOT TRINA on-line traffic volume information database indicates the most recent traffic count on White Lake Parkway (just north of US 395) identified 7,230 vehicles per day on an annual average daily traffic (AADT) basis. Traffic volumes on White Lake Parkway have been stable over the last four years as shown on **Exhibit 1**. With this data, it is conservatively estimated that the current traffic volumes on White Lake Parkway in the vicinity of Crystal Canyon Boulevard are:

- ▶ South of Crystal Canyon Blvd – 7,300 vehicles per day
- ▶ North of Crystal Canyon Blvd – less than 7,300 vehicles per day

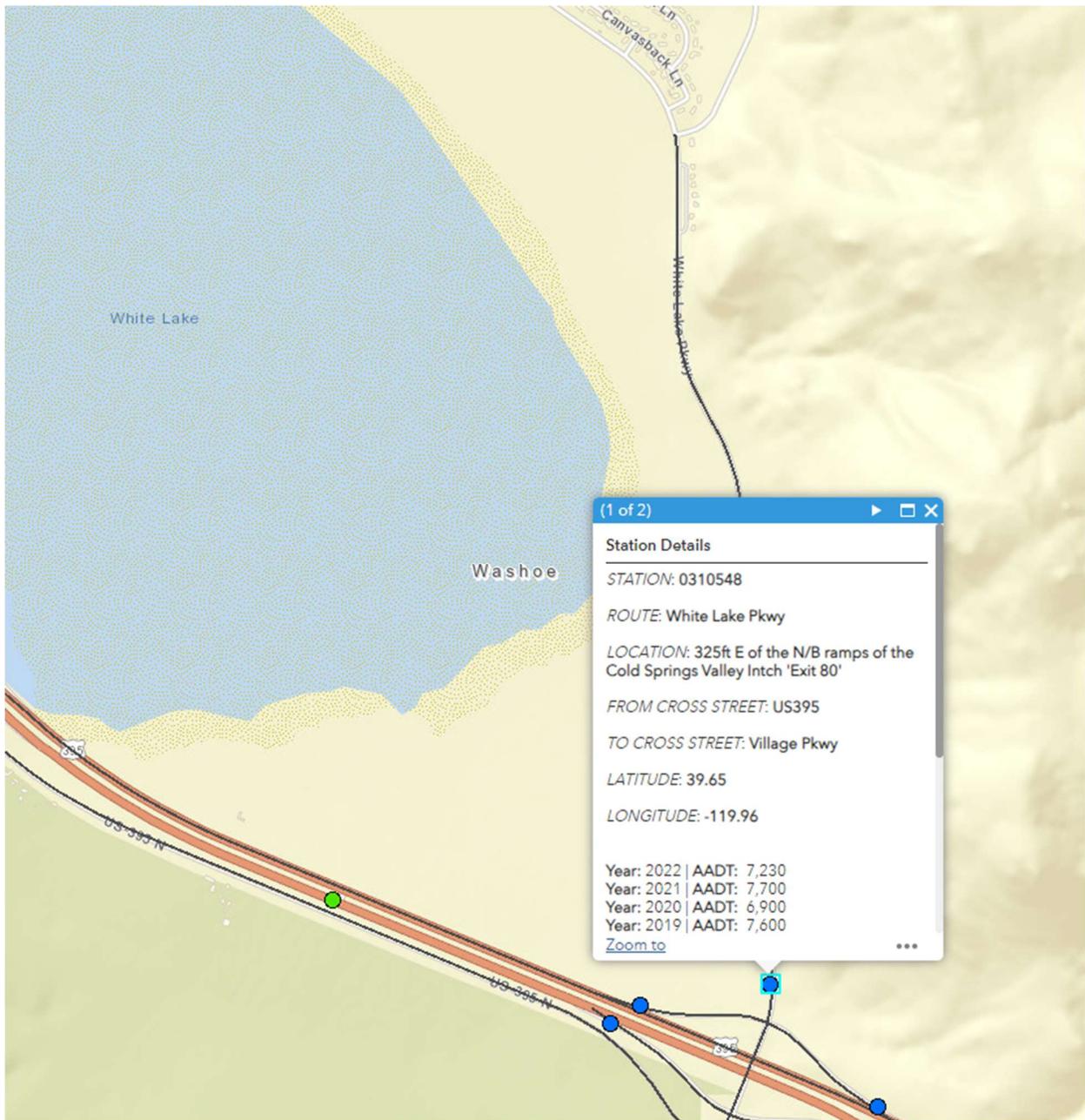


Exhibit 1 – NDOT Traffic Volume Data



Level of Service

Level of service for roadway segments was analyzed using the Generalized Daily Service Volumes for Urban Street Facilities (Exhibit 16-16) of the *Highway Capacity Manual, 7th Edition*. Using this methodology, level of service is determined by comparing average daily traffic volumes to the LOS threshold values shown in **Table 1**. The level of service table is based on number of lanes and roadway speed and character.

Note that the values listed under Posted Speed = 45 mi/hr are appropriate for White Lake Parkway since the signal spacing assumptions (1,500 feet) and access spacing assumptions (10 access points per mile) best represent a rural arterial roadway similar in character.

Table 1. Level of Service Thresholds for Roadway Segments

Facility Type # of Lanes	Maximum Service Flow Rate (Daily for Given Service Level)				
	LOS A	LOS B	LOS C	LOS D	LOS E
Posted Speed = 45 mi/hr					
2	N/A	N/A	7,700	15,900	18,300
4	N/A	N/A	16,500	33,600	36,800
6	N/A	N/A	25,400	51,700	55,300

General assumptions: K-Factor – 0.9, D-Factor – 0.55, Peak Hour Factor – 0.92, Base Saturation Flow Rate – 1,900 pc/h/ln

With two travel lanes (one each direction) and an estimated existing daily traffic volume of 7,300 vehicles per day (less to the north of Crystal Canyon Boulevard), the White Lake Parkway roadway both north and south of Crystal Canyon Boulevard is estimated to currently operate at LOS C.

Level of Service Policy

The 2050 Regional Transportation Plan (RTP) establishes level of service criteria for regional roadway facilities in the City of Reno, City of Sparks, and Washoe County. The current level of service policy is:

- “All regional roadway facilities projected to carry less than 27,000 ADT at the latest RTP horizon – LOS D or better.”
- “All regional roadway facilities projected to carry 27,000 or more ADT at the latest RTP horizon – LOS E or better.”
- “All intersections shall be designed to provide a level of service consistent with maintaining the policy level of service of the intersecting corridors”.

Based on the above policy, exceedance of LOS “D” is the policy operational threshold for the White Lake Parkway.



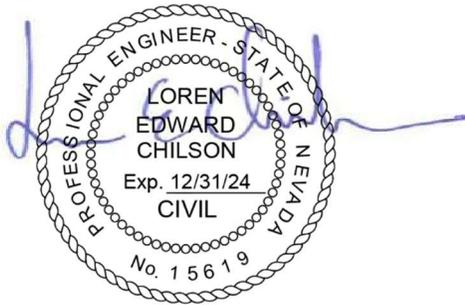
Conclusions

White Lake Parkway currently carries an estimated 7,300 vehicles per day in the highest volume location on the roadway (just north of US 395), and less volume north of Crystal Canyon Boulevard.

White Lake Parkway functions at LOS C on a daily basis, which is in conformance with the regional level of service policy.

There is substantial remaining available capacity on White Lake Parkway with the roadway having the ability to carry on the order of 15,900 ADT within LOS D.

Sincerely,
Headway Transportation, LLC



Loren E. Chilson, PE
Principal

