3/21/2023



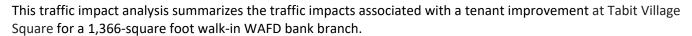
March 21, 2024

To: Carlana Aguon, Project Manager

**Driftmier Architects** 

From: Jeff Hee, Sr. Transportation Engineer

Subject: WAFD Bank Mercer Island Traffic Impact Analysis



The site is on land parcel no. 5315101445, at 7633 SE 27th Street. The site is at the southwest corner of SE 27th Street and 77th Ave SE. The underlying property is zoned Town Center. The proposed bank branch will reoccupy the existing commercial building area formerly occupied by a dry-cleaning business.

Figure 1 includes a vicinity map. Figure 2 includes a site plan.

The commercial site includes 36 onsite parking spaces. The onsite circulation is oriented one-way with access inbound from 77th Ave SE and outbound to SE 27th Street. The parcel also includes access to an alley at the west end of the existing building. There is also an existing curb cut just east of the alley, formerly used as a drop-off access for the former dry-cleaning business.

## **PROJECT IMPACTS**

Project trips were forecast using data from the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 11th* Edition. **Table 1** summarizes the trip generation forecast.

**Period** 1,000 sf gfa **Trip Rate** Trips-In **Trips-Out Trips-Total** 57.94 / 1,000 sf gfa 1 Weekday 1.366 40 39 79 5.74 / 1,000 sf gfa<sup>2</sup> AM Peak 1.366 4 4 8 PM Peak 1.366 12.13 / 1,000 sf gfa<sup>3</sup> 7 10 17

Table 1: Trip Generation – ITE Walk-In Bank (LU 911)

- 1. No ITE data. Rate estimated by dividing the daily rate for a Drive-In Bank (LU 912) by the PM peak hour rate for a Drive-In Bank multiplied by the PM peak hour rate for a Walk-In Bank. = 100.35 / 21.01 X 12.13
- 2. No ITE data. Rate estimated by dividing the daily rate for a Drive-In Bank (LU 912) by the PM peak hour rate for a Drive-In Bank multiplied by the PM peak hour rate for a Walk-In Bank. = 9.95 / 21.01 X 12.13
- 3. Average ITE trip rate.

**Figure 3** illustrates the PM peak hour trip distribution and assignment. For this analysis, the trips were distributed to intersections impacted by 10 or more peak hour trips. PM peak hour project trips were distributed based on the site's proximity to other commercial uses, residential homes, and the freeway.

The study area was reviewed with Mercer Island staff and focuses on the existing two one-way driveways and the intersection of SE 27th Street and 77th Ave SE.

## **EXISTING CONDITIONS**

The City of Mercer Island's Comprehensive Plan classifies SE 27th Street and 77th Ave SE as Secondary Arterials. Near the site both roadways have 3-lane cross-sections with center turn lanes, and curb, gutter, and sidewalk. 77th Ave SE includes marked bicycle lanes. The posted speed limit in downtown Mercer Island is 25-mph.

The intersection of SE 27th Street and 77th Ave SE is signalized.



The site is within a ¼-mile south from the future light rail station and within ½-mile south of the Mercer Island Park and Ride.

The nearest transit stop is on 77th Ave SE north of SE 27th Street. The stop is served by King County Transit Route 204, Mercer Island DART. Peak hour headways are approximately every hour with service Mondays through Saturdays.

For this analysis, PM peak hour traffic volumes were collected at the signalized intersection of SE 27th Street and 77th Ave SE and one-way site accesses on Thursday, February 29, 2024. Copies of the data collection at attached. The peak hour for all three intersections was 4:30-5:30 PM.

Existing and future traffic volumes are illustrated in Figure 4.

## **FUTURE CONDITIONS**

Future traffic conditions include planned transportation improvements and non-project traffic growth through the study area. The analysis horizon is 2025, the year of opening.

The city's 6-year Transportation Improvement Program (2024-2029) includes the following public improvements in the vicinity of the site:

- SE 27th St (76th Ave SE 80th Ave SE). This is a resurfacing project in the Town Center anticipated in 2024 at an estimated cost of \$805,072 (#SP0110).
- 77th Ave SE channelization (SE 32nd North Mercer Way). This project includes removing bike lanes to create on-street parking and sharrows in the Town Center to comply with current standards. The project is anticipated by 2026 at an estimated cost of \$53,600 (SP0136).

Both city projects are not anticipated to significantly change access and traffic circulation to Tabit Village Square.

The City of Mercer Island's traffic consultant identified one pipeline project in the study area, Xing Hua development, at the northwest corner of 78th Ave SE and SE 29th Street. Copies of the peak hour pipeline trip figures are attached. Future traffic conditions without the project were forecast by applying a 1.5-percent annual growth rate to the existing traffic volumes and adding pipeline project trips.

Traffic conditions with the project were forecast by adding project trips to the future traffic volumes without the project.

Existing and future traffic volumes are illustrated in Figure 4.

## **LEVEL OF SERVICE ANALYSIS**

Intersection level of service (LOS) was evaluated at the study intersection and project driveways for existing and future conditions without and with the project using methodology from the Highway Capacity Manual and Synchro computer program. **Table 2** summarizes the LOS results and copies of the analysis output are attached.

The PM peak hour signal timing at SE 27th Street and 77th Ave SE was reviewed in the field.

The intersection LOS in the Town Center is LOS D. The study intersections operate at LOS B or better with the project and level of service and delay mitigation is not warranted.



## **Table 2: Intersection Level of Service Analysis**

Intersection	Control	2024	Existing	20XX w/o	the Project	20XX with the Project		
		LOS	Delay	LOS	Delay	LOS	Delay	
1. SE 27th St / Out Dwy	NB Stop	В	13.2	В	13.4	В	13.4	
2. SE 27th St / 77th Ave SE	Signal	В	12.9	В	13.1	В	13.2	
3. In Dwy / 77th Ave SE	Free	Α	-	Α	-	Α	-	

- 1. SE 27th St / Out Dwy. The driveway operates at LOS A. The 95th-percentile vehicle queues outbound from the site are less than 1 vehicle. Queueing is not anticipated to adversely impact onsite circulation.
- 2. SE 27th St / 77th Ave SE. Overall, the signalized intersection operates at LOS D, and satisfies the city's Town Center LOS standard.
  - The eastbound left-turn lane has approximately 60 feet of storage before merging into a two-way left-turn lane across the site frontage. The outbound driveway is approximately 155 feet west of the signalized intersection. The eastbound left-turn 95th-percentile queue is less than one vehicle, in the future with the project, and the 95th-percentile queue in the through-right turn lane is 6.6 vehicles, or 165 feet, now, and 7.1 vehicles, or approximately 178 feet, in the future with the project. The through-right lane queue extends past the outbound site driveway. The outbound driveway operates at LOS B showing that there are adequate gaps in the eastbound traffic for vehicles to exit the site.
  - The westbound left-turn lane has approximately 60 feet of storage before merging into a two-way left-turn lane across the Walgreens frontage. The Walgreens driveway is approximately 95 feet east of the intersection. The westbound left-turn 95th-percentile queue is 1.1 vehicles, or 28 feet, in the future with the project, and the 95th-percentile queue in the through-right turn lane is 3.6 vehicles, or 90 feet, in the future with the project. The through-right lane queue does not extend to the Walgreens driveway.
  - The northbound left-turn lane has approximately 60 feet of storage before merging into a two-way left-turn lane across the site frontage. The inbound driveway is within 20 feet south of the signalized intersection. The northbound left-turn 95th-percentile queue is 1.3 vehicles, or 33 feet, now and in the future with the project, and the 95th-percentile queue in the through-right turn lane is 2.2 vehicles, or 55 feet, now and in the future with the project. The northbound queues extend past the inbound driveway. The one-way inbound driveway does not impact generate delay outbound. Vehicles entering the driveway are required to wait for a gap in the traffic flow south of SE 27th Street to enter the site; this condition does not change with the proposed project.
  - The southbound left-turn lane has approximately 50 feet of storage before merging into a two-way left-turn lane north of the intersection. The southbound left-turn 95th-percentile queue is 1.4 vehicles, or 35 feet, in the future with the project, and the 95th-percentile queue in the through-right turn lane is 2.6 vehicles, or 65 feet, in the future with the project.
- 3. In Dwy / 77th Ave SE. The driveway is restricted to inbound movements only from 77th Ave SE. Currently, vehicle queues northbound on 77th Ave SE extend past the driveway. There are no plans to change the driveway restrictions or driveway location.

## **PARKING**

The former dry-cleaning use required between 2 and 3 spaces per 1,000 square feet of retail space. The resulting minimum parking required for the former retail use was 3 parking spaces.

The proposed bank requires between 3 and 5 spaces per 1,000 square feet of financial services space. The resulting minimum parking required for the proposed bank is 4 parking spaces, +1 more parking spaces than the former dry-cleaning business.



The Applicant proposes to reuse the one (1) drop-off parking space off SE 27th Street north of the existing building for short-term parking and to mitigate the use's parking needs. **Figure 5** includes a street view photograph of the former dry-cleaning business' drop-off space that is proposed to be reused for short-term parking for the bank.

Access to the proposed short-term parking space will be via the existing driveway (easement) on the west side of the building and an existing curb cut about 20 feet from the driveway (easement). The proposed location includes drivers entering from the west and departing to the east. A new curb section is shown in the site plan between the existing curb cuts.

A sightline analysis is included in Figures 6 and 7, for stopping and intersection sight distance.

- Stopping sight distance is the distance needed for a driver to identify an object at the edge of the
  roadway, apply the vehicle's brakes, and stop the vehicle. The AASHTO Green Book recommends 200
  feet of stopping sight distance for a roadway with a design speed of 30-mph. The center of the exiting
  driveway at the loading location meets the stopping sight distance recommendation.
- Intersection sight distance is the distance recommended for a car to enter the travel way without vehicles on the mainline slowing down to more than 70-percent of their initial speed. The AASHTO Green Book recommends 335 feet of intersection sight distance for vehicles to make a left-turn maneuver on a roadway with a design speed of 30-mph. The proposed loading location meets the intersection sight distance recommendation. For this analysis, the decision point is offset from the edge of SE 27th Street by 14.5 feet but curved to represent the approximate location of where the driver's eye would be for a vehicle departing the site.

Overall, there appear to be no sightline impediments at the proposed loading location. Signage is recommended to notify pedestrians and others of the parking space.

The proposed short-term parking space mitigates the bank's parking needs of +1 parking spaces more than the former dry-cleaning business.

## **CONSTRUCTION PARKING**

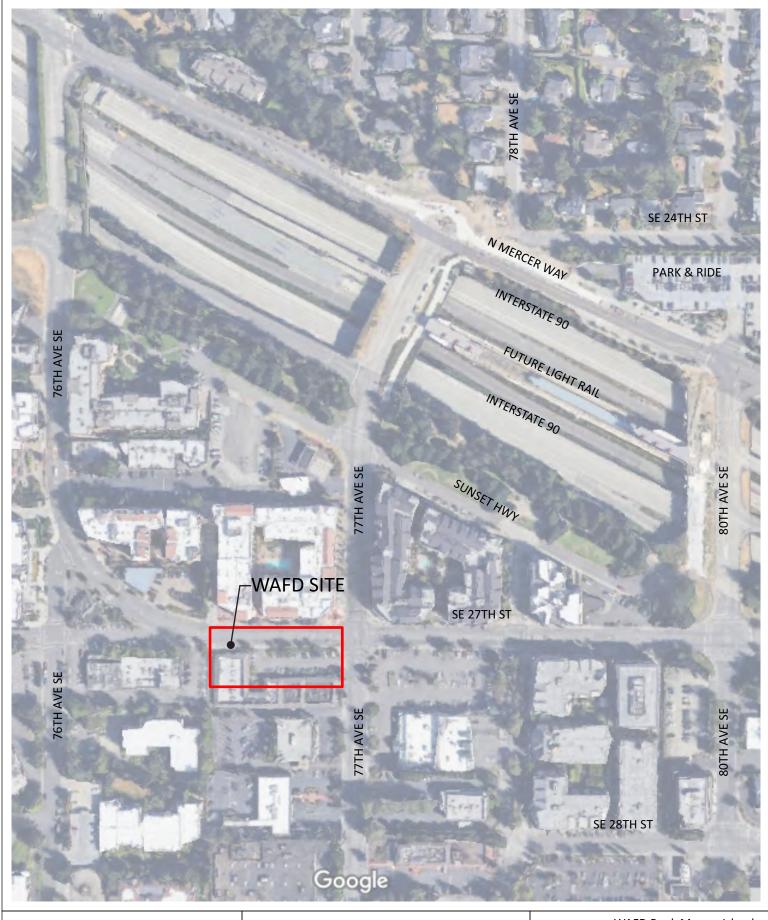
Temporary construction parking will be limited to short term loading in the alley on the west side of the building. For this tenant improvement, at most only 3 construction vehicles are anticipated on the site.

## **CONCLUSIONS**

The proposed project includes a tenant improvement to convert 1,366 square feet of building area occupied by a former dry-cleaning business to a walk-in WAFD bank branch.

The project is forecast to generate 8 AM peak hour and 17 PM peak hour trips. Study intersections are forecast to operate at LOS B, or better with the project. There are no study intersection improvements recommended.

The project proposes to reuse a former drop-off space for the dry-cleaning business for short-term parking. There are no sight distance impediments for a driver exiting the short-term parking space.



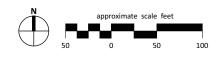


Figure 1: Vicinity Map





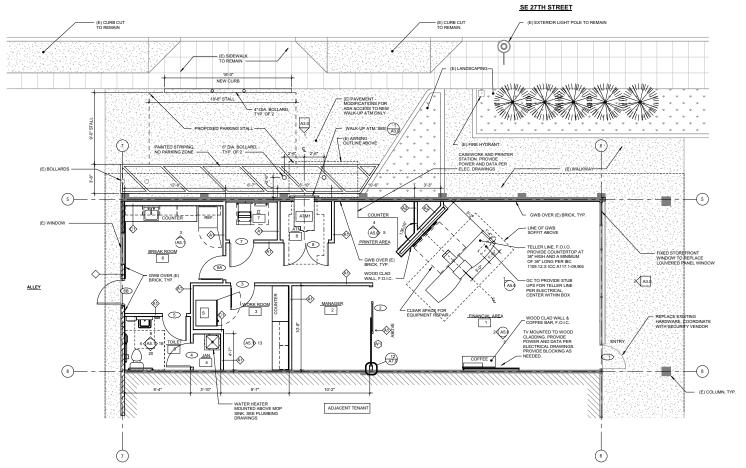
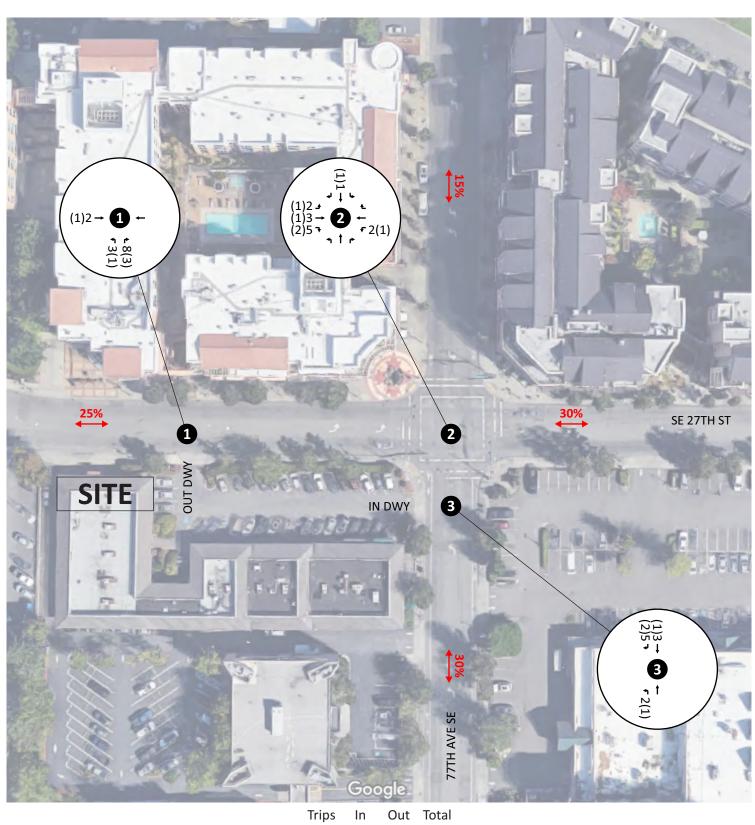




Figure 2: Site Plan





Trips In Out Total (AM) (4) (4) (8) PM 7 10 17



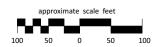


Figure 3: Trip Distribution and Assignment





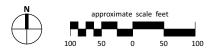


Figure 4: PM Peak Hour Traffic Volumes



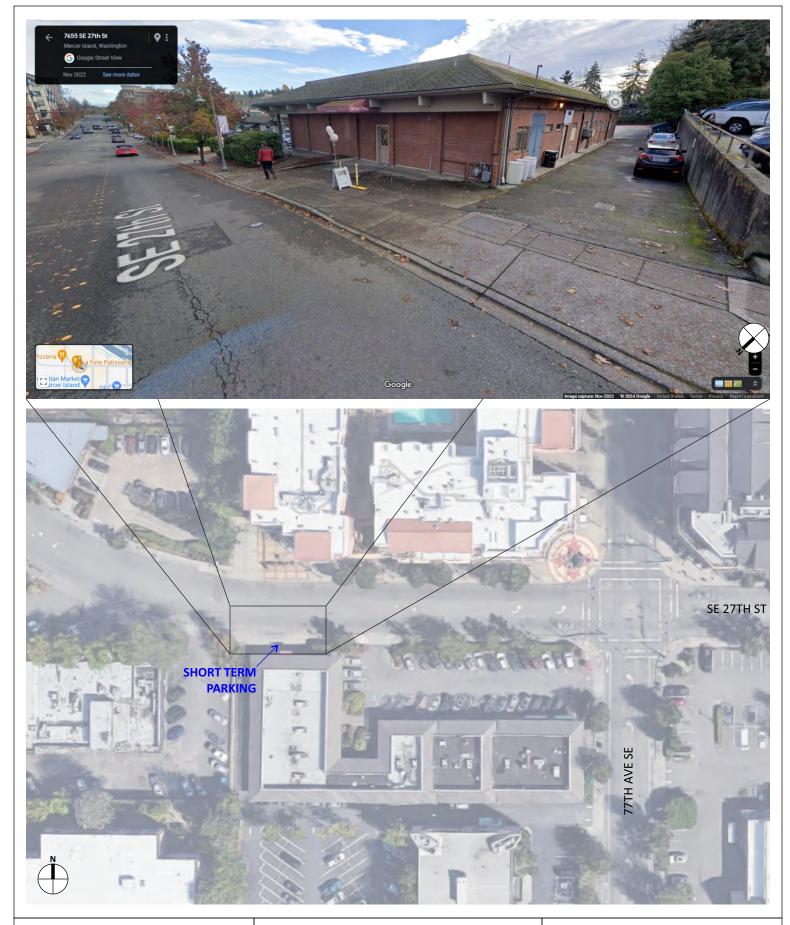
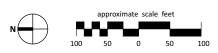


Figure 5: Street View; Short-Term Parking



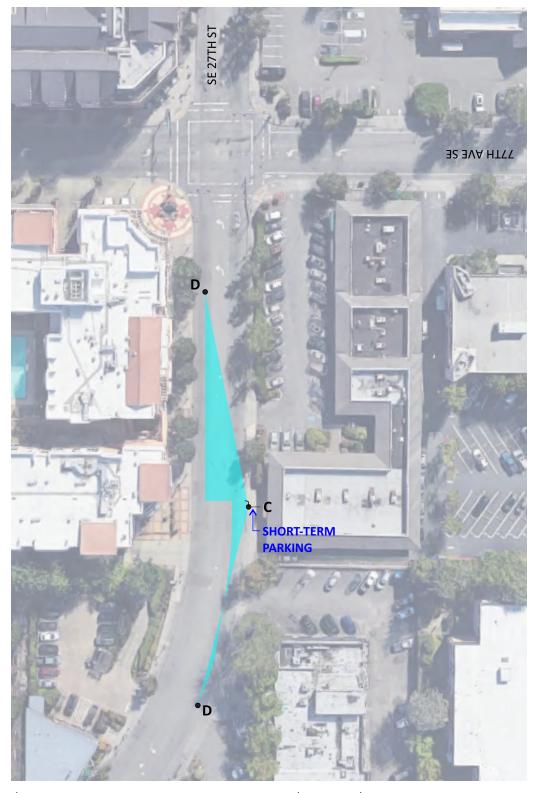


POINT A - OBJECT AT EDGE OF TRAVEL-WAY (SE 27TH ST)
POINT B - STOPPING SIGHT DISTANCE (200-FT) ALONG TRAVEL-WAY; 30 MPH DESIGN SPEED



## Figure 6: Stopping Sight Distance - Loading Space (Source: AASHTO Greed Book Table 3-1)

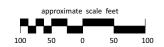




POINT C - DRVER'S EYE 14.5-FT OFFSET FROM EDGE OF TRAVEL-WAY (SE 27TH ST), CURVED TO SHOW APPROXIMATELY WHERE THE DRIVER'S EYE IS FOR THE CAR IN SHORT-TERM PARKING SPACE

POINT D - INTERSECTION, OR ENTERING, SIGHT DISTANCE (335-FT) ALONG TRAVEL-WAY; 30 MPH DESIGN SPEED





## Figure 7: Intersection Sight Distance - Loading Space (Source: AASHTO Greed Book Table 9-6)





## Prepared for: Transportation Solutions, Inc.

# Traffic Count Consultants, Inc.

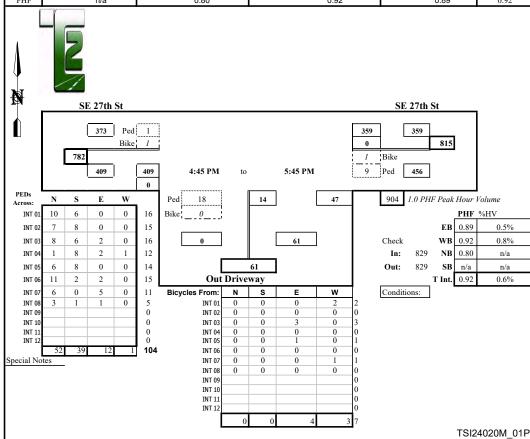
Phone: (253) 770-1407 FAX: (253) 770-1411 E-Mail: Team@TC2inc.com

WBE/DBE

 Intersection:
 Out Driveway & SE 27th St
 Date of Count:
 Thu 02/29/2024

 Location:
 Mercer Island, Washington
 Checked By:
 Jen

Time Interval	Fro	m No	rth on (	SB)	From South on (NB) Out Driveway				From East on (WB) SE 27th St					om Wes	Interval Total		
Ending at	T	L	S	R	T	L	S	R	T	L	S	R	T	L	S	R	
4:15 P	0	0	0	0	0	4	0	12	1	0	98	0	1	0	92	0	206
4:30 P	0	0	0	0	0	1	0	13	2	0	89	0	2	0	97	0	200
4:45 P	0	0	0	0	0	2	0	6	0	0	76	0	0	0	104	0	188
5:00 P	0	0	0	0	0	3	0	8	0	0	82	0	1	0	100	0	193
5:15 P	0	0	0	0	0	4	0	11	1	0	90	0	0	0	115	0	220
5:30 P	0	0	0	0	0	2	0	14	1	0	98	0	1	0	112	0	226
5:45 P	0	0	0	0	0	5	0	14	1	0	89	0	0	0	82	0	190
6:00 P	0	0	0	0	0	3	0	1	0	1	78	0	0	0	90	0	173
6:15 P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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					Peak	Hour:	4:45 PM		to	5:45 PM							
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PHF			n/a				0.80				0.92				0.89		0.92





# Prepared for: Transportation Solutions, Inc.

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4:45 P	0	25	25	12	0	19	17	11	0	14	45	10	0	8	64	38	288
5:00 P	0	16	29	9	0	25	17	13	0	10	48	6	1	7	74	27	281
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6:15 P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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6:45 P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## Prepared for: Transportation Solutions, Inc.

# Traffic Count Consultants, Inc.

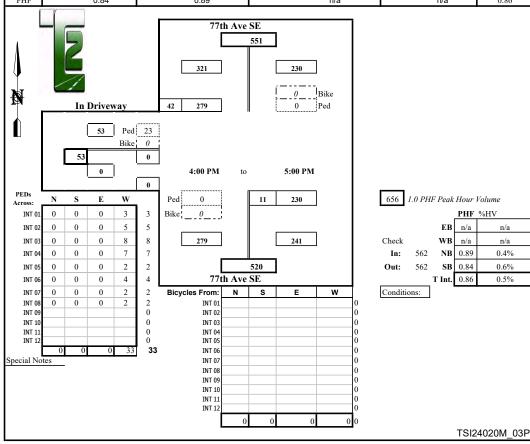
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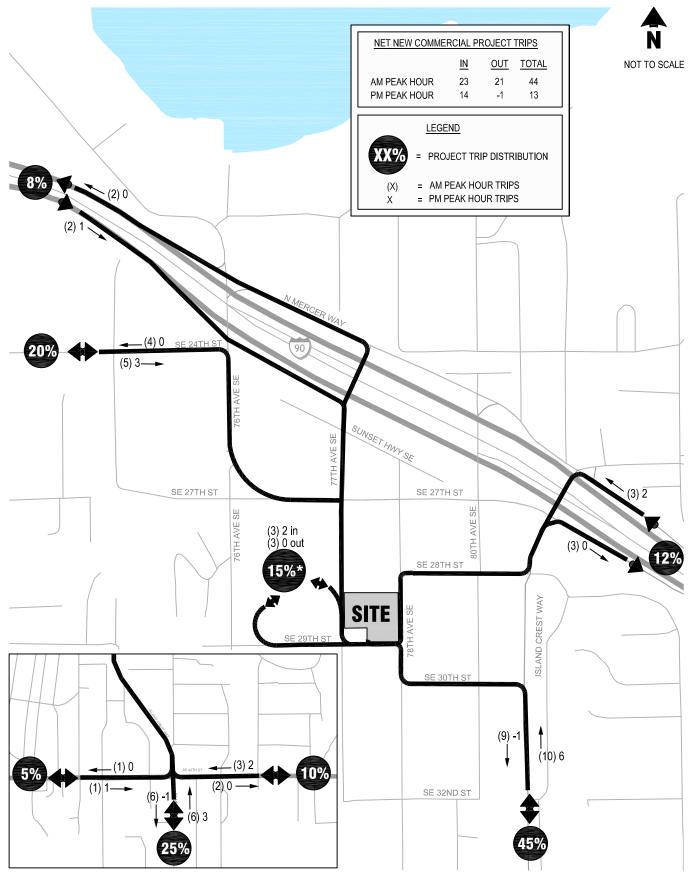
WBE/DBE

 Intersection:
 77th Ave SE & In Driveway
 Date of Count:
 Thu 02/29/2024

 Location:
 Mercer Island, Washington
 Checked By:
 Jen

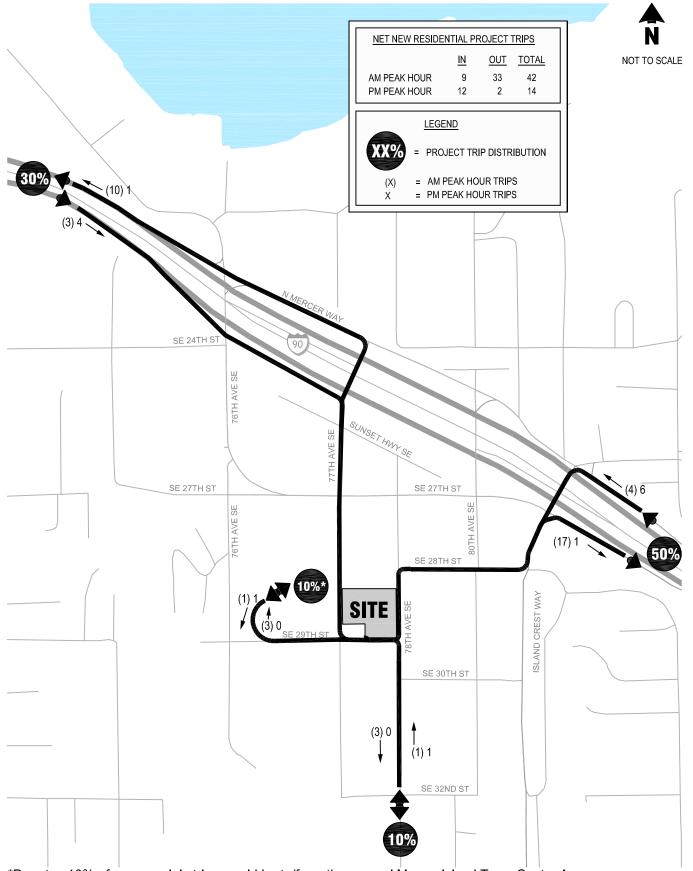
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5:30 P	1	0	75	19	1	3	52	0	0	0	0	0	0	0	0	0	149		
5:45 P	0	0	59	7	0	3	56	0	0	0	0	0	0	0	0	0	125		
6:00 P	1	0	63	9	0	1	48	0	0	0	0	0	0	0	0	0	121		
6:15 P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
6:30 P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
6:45 P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
7:00 P	0	0	0	0	0	0 0 0 0				0 0 0 0					0 0 0 0				
Total			1						I				Ι						
Survey	5	0	552	86	2	24	448	0	0	0	0	0	0	0	0	0	1110		
541.169			002			Hour:	4:00 PM		to	5:00 PM							1110		
Total	2	0	279	42	1	11	230	0	0	0	0	0	0	0	0	0	562		
Approach		•	321	•			241				0				0		562		
%HV			0.6%				0.4%			n/a					n/a				
PHF			0.84				0.89				n/a				0.86				
1	1								•				•						





\*Denotes 15% of commercials trips would be to/from the general Mercer Island Town Center Area.

Commercial Trip Distribution and Assignment (AM and PM Peak Hour)



\*Denotes 10% of commercials trips would be to/from the general Mercer Island Town Center Area.

Residential Trip Distribution and Assignment (AM and PM Peak Hour)

Figure