

MEMORANDUM Site Plan Review - Class 3

Project No:

To: Date: 08/25/2022 City of Salem

Community Development Department

Project: Stop-N-Save Gas Station with Additional Architect's 2020-109

Retail and Oil Change Facility

3997 Carson Dr SE Salem OR 97317

From: Leonard Lodder, AIA, LEED AP for:

> Studio 3 Architecture, Inc 275 Court Street NE

Salem OR 97301 Sent Via: Email

Subject: SPR Class III with driveway permit and lot

> line adjustment. Application Checklist

Project Description:

- The owners of the project have acquired the property currently identified as tax lot 10100 immediately to north of the property at 3997 Carson Drive SE, and are looking to add the following elements to the project:
 - o A 4 pump gas station.
 - o A propane refill station.
 - o A cashier's station for the fueling pad.
 - An enlarged, secure trash enclosure.
 - o An additional retail commercial building.
 - An Oil Change facility.
 - With other site improvements.
- A driveway permit is included to facilitate a new driveway onto Hagers Grove, "left out and left in only.
- A driveway permit to allow widening of the existing driveway exiting west from the
- A lot line adjustment to make one contiguous lot for the entire facility.

Application Checklist:

X COMPLETED APPLICATION FORM.

The application form must be signed by the applicant(s), property owner(s), and/or duly authorized representative(s). If the applicant and/or property owner is a Limited Liability Company (LLC), please also provide a list of all members of the LLC with your land use application. See attached.

X APPLICATION FEE.

The application fee must be paid at the time of filing your application.

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Memorandum

We anticipate a significant credit from Application 22 102069 00 RP to be applied to this application.

NEIGHBORHOOD ASSOCIATION CONTACT.

Neighborhood association contact, pursuant to SRC 300.310, is required prior to submitting this land use application. A copy of the required e-mail or letter to the neighborhood association, and a list of the e-mail or postal addresses to which the e- mail or letter was sent shall be submitted or the land use application will not be accepted.

See attached pdf of email sent to Southeast Mill Creek Association on 01/12/2022

o recorded deed/land sales contract with legal description.

A copy of the recorded deed/land sales contract of the total contiguous ownership of the applicant. See attached Deed and Title Report for Tax Lots 10000 and 10100, recently acquired.

HOMEOWNERS ASSOCIATION INFORMATION.

A statement indicating whether the subject property is subject to an active and duly incorporated Homeowner's Association (HOA) registered with the Oregon Secretary of State. If so, the applicant shall provide the HOA name, name of the registered agent and the mailing address for the registered agent.

Not Applicable

X TRIP GENERATION ESTIMATE (TGE) FORM.

A Trip Generation Estimate (TGE) form must be completed by the applicant and submitted to the Department of Public Works, Traffic Engineering Section, Room 325, to determine whether a Transportation Impact Analysis (TIA) is required for the application.

See Attached

o TRANSPORTATION IMPACT ANALYSIS (TIA).

If required for the development, a TIA shall be provided in the format, and based on thresholds, specified in standards established by the Director of Public Works.

Updated and attached.

GEOLOGICAL ASSESSMENT OR GEOTECHNICAL REPORT.

If required by SRC Chapter 810, or a statement from an engineer certifying that landslide risk on the site is low, and that there is no need for further landslide risk assessment.

Site is not located in a landslide risk area.

X SITE PLAN.

The site plan must include the following information:

• The total site area, dimensions, and orientation relative to north;

See Site plan

 The location of all proposed primary and accessory structures and other improvements, including fences, walls, and driveways, indicating distance from the structures and improvements to all property lines and adjacent on-site structures;

See Site Plan.

Loading areas, if included with proposed development;

Loading Area shown on site plan adjacent to Trash Enclosure.

 The size and location of solid waste and recyclables storage and collection areas, and amount of overhead clearance above such enclosures, if included with proposed development;

See the Site Plan for the location and size.

An indication of future phases of development on the site, if applicable;

This proposal will max out the site development.

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All proposed landscape areas on the site, with an indication of square footage and their percentage of the total site area (complete landscape and irrigation plans are required with the building permit application);

Landscape areas are shown on the Site Plan. Design of Landscape elements will follow.

The location, height, and material of fences, berms, walls, and other proposed screening as they relate to landscaping and screening required by SRC Chapter 807;

Refer to Civil Plans for location of Storm water treatment Facilities.

The location of all trees and vegetation required to be protected pursuant to SRC Chapter

See Site Plan. Note: there are no existing trees on the currently vacant portion of the site.

The location of all street trees, if applicable, or proposed location of street trees required to be planted at time of development pursuant to SRC Chapter 86; and

Deferred to Landscape design. Currently Right-of-Way is bounded by sidewalks and paving with no space for street trees.

Identification of vehicle, pedestrian, and bicycle parking and circulation areas, including handicapped parking stalls, disembarking areas, accessible routes of travel, and proposed

See Site Plan.

- Bicycle parking shown central to site.
- Vehicle circulation shown on site plan.
- Pedestrian connections identified to all abutting streets.

X EXISTING CONDITIONS PLAN.

The existing conditions plan must include the following information:

• The total site area, dimensions, and orientation relative to north;

See Site Plan – Existing Conditions

The location of existing structures and other improvements on the site, including accessory structures, fences, walls, and driveways, noting their distance from property lines;

See Site Plan – Existing Conditions

• The location of the 100-year flood plain, if applicable.

Not Applicable

The zoning district, comprehensive plan designation, and land uses for all properties abutting the site;

See Site Plan – Existing Conditions

Driveway locations, public and private streets, bike paths, transit stops, sidewalks, and other bike and pedestrian pathways, curbs, and easements;

See Site Plan – Existing Conditions

The elevation of the site at 2-foot contour intervals, with specific identification of slopes in excess of 15 percent; and

See Site Plan – Existing Conditions

The location of drainage patterns and drainage courses, if applicable.

See Site Plan – Existing Conditions

PRELIMINARY UTILITY PLAN.

A preliminary utility plan shall be submitted showing capacity needs for municipal water, stormwater management, and sewer service, and schematic location of connection points to existing municipal water and sewer services. It is suggested that the utility plan contain the following items:

See Civil Engineering Drawings.

• Existing drainage plan and drainage courses;

See Civil Engineering Drawings.

• Water service connection and meter location;

See Civil Engineering Drawings.

Maximum water meter size required;

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Memorandum File: 2020-109.01 Project No: 2020-109 Stop-N-Save Gas Station Page 3 of 12 See Civil Engineering Drawings.

Maximum fire flow needs for development;

See Civil Engineering Drawings. New and Existing buildings do not require fire sprinklers.

• Sanitary sewer location and connection to public main;

See Civil Engineering Drawings.

• Maximum sanitary sewer service size required; and

See Civil Engineering Drawings.

• Storm drain service location and point of disposal.

See Civil Engineering Drawings.

PRELIMINARY GRADING PLAN.

A preliminary utility plan shall be submitted depicting proposed site conditions following completion of the proposed development, when grading of the subject property will be necessary to accommodate the proposed development.

See Civil Engineering Drawings.

o ARCHITECTUAL DRAWINGS.

For development in the Mixed Use-I (MU-I) and Mixed Use-II (MU-II) zones, architectural drawings, renderings, or sketches showing all elevations of the existing buildings and the proposed buildings as they will appear on completion.

This site is not in an MU-1 or MU-2 zone.

X SUMMARY TABLE.

A summary table shall be submitted which identifies the zoning designation for the subject property; total site area; gross floor area by use (i.e. manufacturing, office, retail, storage); building height; itemized number of full size, compact, and handicapped parking stalls, and the collective total number; total lot coverage proposed, including areas to be paved for parking and sidewalks.

See Site Plan Sheet

WRITTEN STATEMENT.

A written statement is recommended to be submitted describing how the proposed development meets the following approval criteria for Class 3 Site Plan Review:

The new development expands on the existing uses current at the site including a convenience store and related retail units.

Additional development includes the following:

- A new 4-pump gas station,
- A propane refill station,
- A cashier's station to serve the re-fueling pad,
- Additional retail space,
- An enlarged and secure trash/recycling facility, and
- An oil change facility.
- Additional site improvements to support the new uses.

The new and existing uses are compatible service commercial uses that enhance their codependence and contribute to needs in the area.

• The application meets all applicable standards of the UDC;

Yes, every attempt has been made to satisfy UDC requirements. The plans submitted with this application respond to two sets of responses to a previous attempt to gain a Class III Site Plan Approval for this site. We would have requested that the file would be declared complete with that response but the city has declared that the application has expired.

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• The transportation system provides for the safe, orderly, and efficient circulation of traffic into and out of the proposed development, and negative impacts to the transportation system are mitigated adequately;

New and existing access points have been designed to enhance efficient movement of traffic within the site and its interface with public streets.

• Parking areas and driveways are designed to facilitate safe and efficient movement of vehicles, bicycles, and pedestrians; and

New and existing parking areas have been designed to enhance efficient movement of traffic within the site. Owners recent experiences with conflicts on the site have been mitigated by introducing wider driveway aisles.

• The proposed development will be adequately served with City water, sewer, storm drainage, and other utilities appropriate to the nature of the development.

The expanded development will be adequately served with City water, sewer, storm drainage and other utilities as appropriate for the type of development.

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Signed Application



Land Use Application

Planning/Permit Application Center City Hall / 555 Liberty St. SE / Room 320 / Salem, OR 97301-3513 503-588-6173 * planning@cityofsalem.net

If you need the following translated in Spanish, please call 503-588-6256. Si usted necesita lo siguiente traducido en español, por favor llame 503-588-6256.

Application type

Please describe the type of land use action requested:

For office use only)
ermit #:

work site location and information
Street address or location of subject
property
Total size of subject property
Assessor tax lot numbers
Existing use structures and/or other
improvements on site
Zoning
Comprehensive Plan Designation
Project description

People information

	Name	Full Mailing Address	Phone Number and Email address			
Applicant						
Agent						
Paid By						

Project information

1 Toject information	
Project Valuation for Site Plan Review	
Neighborhood Association	
Have you contacted the Neighborhood Association?	Yes
	No
Date Neighborhood Association contacted	
Describe contact with the affected Neighborhood Association	
(The City of Salem recognizes, values, and supports the involvement of residents	
in land use decisions affecting neighborhoods across the city and strongly	
encourages anyone requesting approval for any land use proposal to contact the	
affected neighborhood association(s) as early in the process as possible.)	
Have you contacted Salem-Keizer Transit?	Yes
planning@cherriots.org	No
Date Salem-Keizer Transit contacted	
Describe contact with Salem-Keizer Transit	
Type the name and address of the Homeowners Association	
(If none, type "N/A".)	

Authorization by property owner(s)/applicant

*If the applicant and/or property owner is a Limited Liability Company (LLC), please also provide a list of all members of the LLC with your application.

Copyright release for government entities: I hereby grant permission to the City of Salem to copy, in whole or part, drawings and all other materials submitted by me, my agents, or representatives. This grant of permission extends to all copies needed for administration of the City's regulatory, administrative, and legal functions, including sharing of information with other governmental entities.

Authorizations: Property owners and contract purchasers are required to authorize the filing of this application and must sign below.

- All signatures represent that they have full legal capacity to and hereby do authorize the filing of this application and certify that the information and exhibits herewith submitted are true and correct.
- I (we) hereby grant consent to the City of Salem and its officers, agents, employees, and/or independent contractors to enter the property identified above to conduct any and all inspections that are considered appropriate by the City to process this application.
- I (we) hereby give notice of the following concealed or unconcealed dangerous conditions on the property:

Electronic signature certification: By attachi I certify herein that I have read, understood and application form. Authorized Signature:	d confirm all the	signature (whether typed, graphical or free form) statements listed above and throughout the
		2 27 9 0 5
Print Name: Inderjit Singh Dhaliwal		Date: 8 - 22 - 20 20
Address (include ZIP): 2433 NW Broadway S		21
Authorized Signature: Tal windr	SWM	
Print Name: Talwinder Dhaliwal	- 1914 - Aug 13 - Aug	Date: $3 - 22 - 2022$
Address (include ZIP):	ar and Digital States	monitority 1 c loss
	(For office use of	only)
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	Save the file to y	your computer and email to planning@cityofsalem.net.

Trip Generation Report:

File: 2020-109.01

Stop-N-Save Gas Station



Traffic Engineering Section Public Works Department

Trip Generation Estimate

Street ___

Bin # TGE # 555 Liberty Street SE, Room 325 Telephone: 503-588-6211 Salem, Oregon 97301-3513 TTY: 503-588-6292 Date Received _____ **Section 1** (To be completed by applicant.) Applicant Name: Inderjit S. Dhaliwahl Telephone: 503.999.6545 Applicant Mailing Address: 2433 NW Broadway St Albany OR 97321 Location of New Development: 3997 Carson Dr SE Salem OR 97317 (Please provide street address. If unknown, provide approximate address and geographical description/nearest cross streets.) Description and Size of New Development: 4 Pump Gas Station, 4,315sf Retail Bldg, 1,888sf two bay Oil Change (e.g., 150 single-family homes, 20,000 sq. ft. office addition 12-pump gas station, 50-student day care, additional parking, etc.) Description and Size of Existing/Past Development, if any (note whether to remain or be removed): See attached previous calc. Existing 5,918sf Retail Building. (note: previous approval for 6,000sf Retail plus 1,500sf drive through retail, not built. Planning Action Involved, if any: Site Plan Review Class III **Building Permit Involved:** (e.g., zone change, subdivision, partition, conditional use, PUD, mobile home park, etc.) Yes ⊠ No □ Section 2 (To be completed by City staff.) **Proposed Use Existing Use** Development Quantity: _____ Development Quantity: _____ ITE Land Use Code: ITE Land Use Code: Trip Generation Rate or Equation: Trip Generation Rate/Equation: Average Daily Trips: Average Daily Trips: **ELNDT Adjustment Factors ELNDT Adjustment Factors** Trip Length: Linked Trip: Trip Length: _____ Linked Trip: ____ TSDC Trips: TSDC Trips: Section 3 (To be completed by City staff.) Transportation Impact Analysis (TIA) **Transportation Systems Development Charge** Net Increase in TSDC Trips: Net Increase in Average Daily Trips: (Proposed use minus existing use.) (Proposed use minus existing use.) ☐ A TIA **will** be required: ☐ A TSDC **will** be required. (Fee determined by Development Services.) ☐ Arterial/Collector—1000 Trip/day Threshold ☐ Local Street/Alley—200 Trip/day Threshold □ Other: ☐ A TIA will not be required. ☐ A TSDC will not be required. (For additional information, refer to the back of this application.) **Section 4** (To be completed by City staff.) Date: Remarks: cc:

Chief Development Services Engineer □ Community Development ☐ Building Permit Application П By:

Information Required to Assess the Need for a Traffic Impact Analysis and Transportation Systems Development Charge



The following information is required in order to assess the need for a Traffic Impact Analysis (TIA) and to calculate the Transportation Systems Development Charge (TSDC) to be levied on a proposed new development.

TIA Determination:

The City of Salem may require that a TIA be prepared as part of the approval process for major new development. The purpose of a TIA is to estimate the traffic impacts created by a new development on the surrounding street system. Any significantly adverse traffic impacts identified in the TIA must be mitigated by the applicant.

The estimated daily traffic generation of a new development is used as the criteria for determining whether a TIA is needed. If the new development access is located on an arterial or collector and the estimated daily traffic generation is more than 1000 trips, a TIA may be required. If access is located on a local street or alley and the generated trips exceed 200, a TIA may be required. Other criteria such as site access issues, driveway restrictions, and existing facilities deficiencies may also be used, if recommended by City Traffic Engineering staff.

The City Traffic Engineer makes the determination as to whether a TIA is required. (For more information on TIA criteria, see Development Bulletin No. 19 dated January 20, 1995.) When the determination has been made, copies of the Trip Generation Estimate form are sent to Public Works Development Services Division and the applicant. If a planning action is required, a copy is also forwarded to the Community Development Department.

TSDC Analysis:

The City of Salem charges a TSDC on all new development that creates a net increase in traffic on the surrounding street system. The total charge is assessed on a per trip fee times the TSDC trips calculated for the development. For more information on the TSDC, see Council Staff Report dated October 9, 1995.

To assist in estimating the daily trips generated by a new development, please answer the questions in Section 1 of this sheet and return it to Room 325 of the Civic Center. If you have any questions, Traffic Engineering staff are available at 503-588-6211. A copy of the completed trip generation estimate will be returned to you at the address provided in Section 1.

No Land Use, Planning, or Development Approval applications requiring Trip Generation Estimates will be processed until this information has been provided and the TIA/TSDC assessment has been made by City Traffic Engineering staff.



Traffic Engineering Section
Public Works Department
555 Liberty Street SE, Room 325 Telephone: 503-588-6211
Salem, Oregon 97301-3513 TTY: 503-588-6292

16-16753

Trip Generation Estimate

Bin #_____ TGE # 2016 109 Date Received | 2-8-2016

Section 1 (To be	e completed by applicant.)
Applicant Name: <u>Trader it S. Dhaliwah</u> Applicant Mailing Address: <u>2433 NW Broad</u> Location of New Development: 1691 Lancaster	
(Please provide street address. If unknown, provide approximate address Description and Size of New Development: 6000 57 Co	and geographical description/nearest cross streets.) ONUPLY CHECK STORE & 1500 SF drive through
(e.g., 150 single-family homes, 20,000 sq. ft. office addition, 12-pump gas Description and Size of Existing/Past Development, if any (
Planning Action Involved, if any: Site Plan Ravious (e.g., zone change, subdivision, partition, conditional use, PUD, mobile ho	Building Permit Involved: Yes X No
Section 2 (To be	e completed by City staff.)
Proposed Use Development Quantity: (ACC) of 1500 of 1	Development Quantity:
Section 3 (To be	e completed by City staff.)
Transportation Impact Analysis (TIA) Net Increase in Average Daily Trips: 3903 (Proposed use minus existing use.) A TIA will be required: Arterial/Collector—1000 Trip/day Threshold Local Street/Alley—200 Trip/day Threshold	Transportation Systems Development Charge Net Increase in TSDC Trips: (Proposed use minus existing use.) A TSDC will be required. (Fee determined by Development Services.)
☐ Other: A T!A will not be required.	☐ A TSDC will not be required.
(For additional information, re	efer to the back of this application.)
Section 4 (To be Remarks: TIA HAS BEEN SUBMITTED	Date: 12-16-2016
cc: Chief Development Services Engineer Community Development Building Permit Application	ву: Ош
LEK	:\PERSONAL\USERS\LENLUKIS\PW-FORMS\PAC-FORM_08-09\PAC38.FOR 06/28/2005

Traffic Impact Analysis:

File: 2020-109.01

Stop-N-Save Gas Station





Stop N Save Development

Transportation Impact Study

Salem, Oregon

Date: July 6, 2022

Prepared for: Leonard Lodder

Prepared by: Jessica Hijar Daniel Stumpf, PE

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Executive Summary

- 1. A gas station and retail space are proposed to be located on a 0.67-acre property (Tax Lot 082W06AB100000) in Salem, Oregon. The restaurant/retail space will encompass approximately 4,315 square feet, and the proposed gas station will be comprised of 8 fueling positions and a 300 square foot building which houses the cashier. The development will construct a site access along the northern property line and share the existing western and southern site access with the property to the south.
- 2. The trip generation calculations show that the proposed project is projected to generate a total of 53 morning peak hour primary trips, 72 evening peak hour primary trips, and 1,062 average weekday primary trips.
- 3. No significant trends or crash patterns were identified at any of the study intersections that would be affected by the proposed development. Accordingly, no safety mitigation is recommended per the crash data analysis.
- 4. Preliminary traffic signal warrants are not projected to be met any of the unsignalized study intersections upon full buildout of the proposed development. Accordingly, no related mitigation is necessary or recommended.
- 5. Left-turn lanes are not projected to be met at the applicable intersections upon full buildout of the proposed development. Accordingly, no related mitigation is necessary or recommended.
- 6. All study intersections are currently operating acceptably per jurisdictional standards and are projected to continue operating acceptably through the 2024 site buildout year.



Project Description

Introduction

A gas station and retail space are proposed to be located on a 0.67-acre property (Tax Lot 082W06AB100000) in Salem, Oregon. The restaurant/retail space will encompass approximately 4,315 square feet, and the proposed gas station will be comprised of 8 fueling positions and a 300 square foot building which houses the cashier.

Based on correspondence with City of Salem, the report conducts safety and capacity/level of service analyses at the following intersections:

- 1. Hagers Grove Road SE at northern site access;
- 2. Hagers Grove Road SE at western site access;
- 3. Hagers Grove Road SE at southern site access; and
- 4. Lancaster Drive SE at Hagers Grove Road SE/Carson Drive SE.

The purpose of this study is to determine whether the transportation system within the vicinity of the site is capable of safely and efficiently supporting the existing and proposed uses, and to determine any mitigation that may be necessary to do so. Detailed information on traffic counts, trip generation calculations, safety analyses, and level of service calculations is included in the appendix to this report.

Location Description

The subject property is located east of Interstate 5 and south of Highway 22 (North Santiam Highway SE). The development will construct a site access along the northern property line and share the existing western and southern site access with the property to the south. Figure 1 on the following page shows the site vicinity with the subject site highlighted in red.





Figure 1: Vicinity Map

Vicinity Streets

The proposed development is expected to impact three roadways near the site. Table 1 provides a description of each vicinity roadway.

Table 1: Vicinity Roadway Descriptions

Street Name	Jurisdiction	Functional Classification	Cross- Section	Speed (MPH)	Curbs & Sidewalks	On-Street Parking	Bicycle Facilities
Lancaster Drive SE	City of Salem	Major Arterial	2-3 lanes	40 mph posted	Both sides	Not Permitted	Partial
Hagers Grove Road SE	City of Salem	Local Road	2 lanes	20 mph statutory	Partial both sides	Permitted	None
Carson Drive SE	City of Salem	Local Road	2 lanes	25 mph posted	Partial both sides	Permitted	None

Study Intersections

Based on coordination with City of Salem staff, four intersections were identified for analysis. A summarized description of these study intersections is provided in Table 2.



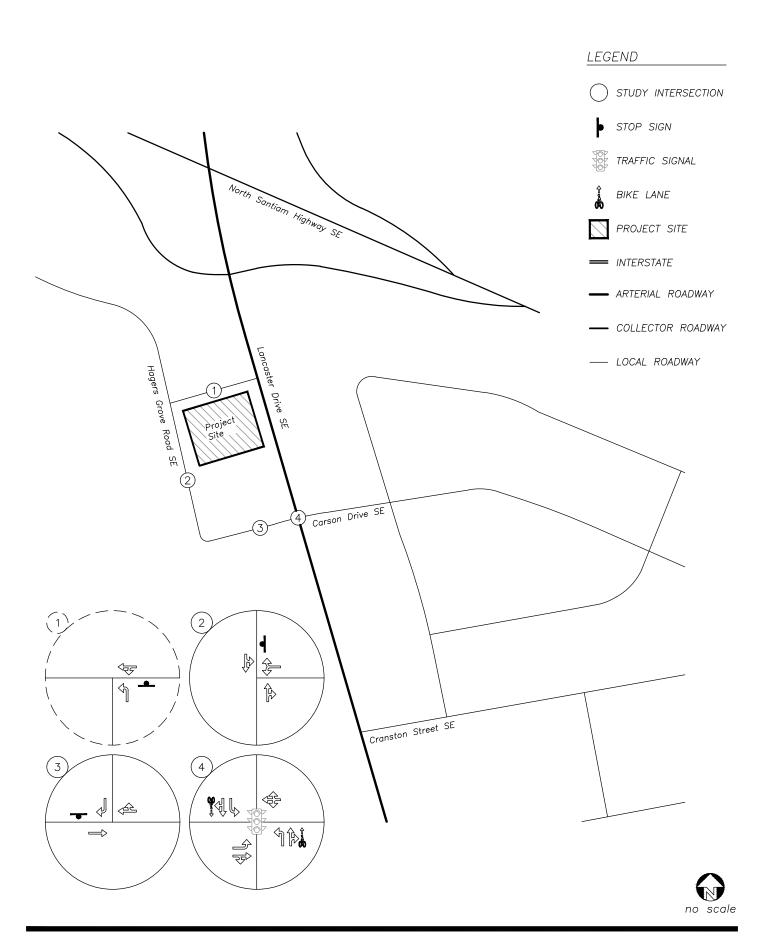
Table 2: Study Intersection Configurations

	Intersection	Geometry	Traffic Control	Phasing/Stopped Approaches
1	Hagers Grove Road SE at northern site access	Three-Legged	Stop-Controlled	Northbound Stop-Controlled
2	Hagers Grove Road SE at western site access	Three-Legged	Stop-Controlled	Westbound Stop-Controlled
3	Hagers Grove Road SE at southern site access	Three-Legged	Stop-Controlled	Southbound Stop-Controlled
4	Lancaster Drive SE at Hagers Grove Road SE/Carson Drive SE	Four-Legged	Traffic Signal	Protected/Permitted with FYA North and Southbound Lefts, Permitted West and Eastbound Lefts

FYA = flashing yellow arrow

A vicinity map showing the project site, vicinity streets, and study intersection configurations is shown in Figure 2.







Site Trips

Trip Generation

To estimate the number of trips that will be generated by the proposed use, trip rates from the *Trip Generation Manual*¹ were used. Trip generation for the proposed retail/restaurant use was estimated using data from land use code 932, *High Turnover Restaurant*, based on the building's gross floor area. Trip generation for the proposed gas station was estimated using data from land use code 944, *Gasoline Service Station*, based on the number of fueling positions.

Reductions at off-site intersections are taken to account for pass-by trips, which patronize retail/service uses within the site on the way to another destination. Since these trips would otherwise already be on the surrounding street system, they do not increase major-street volumes, but do affect turning movements at area intersections. Pass-by trip rates for land use codes 932 and 944 were used from the most recent edition of the *Trip Generation Manual*. Since no rate was given for land use code 932 during the morning peak hour, the evening pass-by rate was used for both peak hours.

The trip generation calculations show that the proposed project is projected to generate a total of 53 morning peak hour primary trips, 72 evening peak hour primary trips, and 1,062 average weekday primary trips. The trip generation estimates are summarized in Table 3. Detailed trip generation calculations are included as an attachment to this memorandum.

Table 3: Trip Generation Summary

		Morning Peak Hour		Evening Peak Hour			Weekday	
Land Use – ITE Code	Size	In	Out	Total	In	Out	Total	Total
High Turnover Restaurant – 932	4,315 sq ft	22	19	41	24	15	39	462
Pass-by	(43%/43%)	-9	-9	-18	-8	-8	-16	-198
Gasoline Service Station – 944	8 FPs	41	41	82	55	56	111	1,376
Pass-by	(63%/57%)	-26	-26	-52	-31	-31	-62	-578
Total Trip Generation		63	60	123	79	71	150	1,838
Total Pass-By		-35	-35	-70	-39	-39	-78	-776
Primary Trips		28	25	53	40	32	72	1,062

¹ Institute of Transportation Engineers (ITE), Trip Generation Manual, 11th Edition, 2021.



Trip Distribution

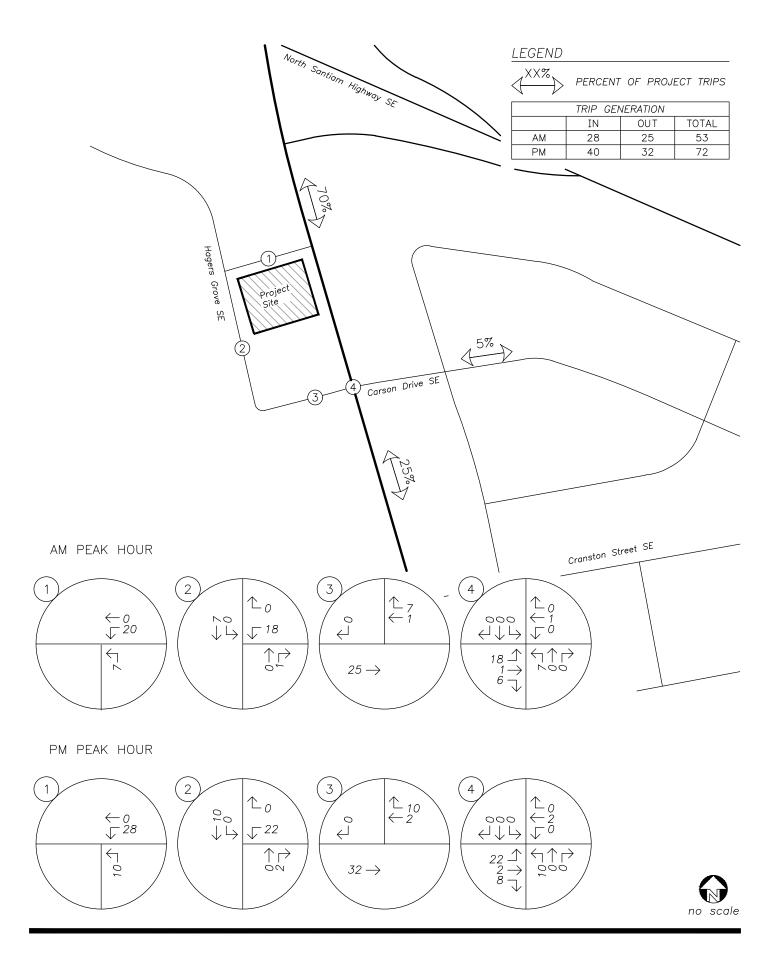
The directional distribution of site trips to/from the project site was estimated based on locations of likely trip destinations, locations of major transportation facilities in the site vicinity, and existing travel patterns at study intersections.

The following trip distribution is projected:

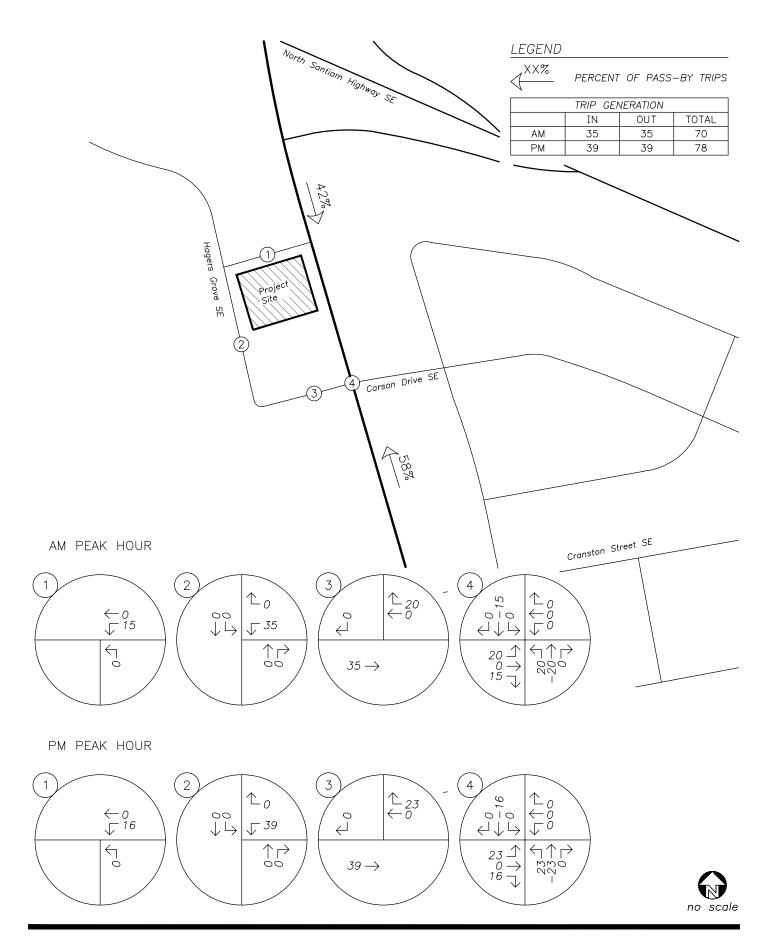
- Approximately 70 percent of entering/exiting site trips will travel from/to the north along Lancaster Drive SE;
- Approximately 25 percent of entering/exiting site trips will travel from/to the south along Lancaster Drive SE;
- Approximately 5 percent of entering/exiting site trips will travel from/to the east along Carson Drive SE.

The trip distribution and assignment during the morning and evening peak hours is shown in Figure 3 for the primary trip generation and Figure 4 for the pass-by trip generation.











Traffic Volumes

Existing Conditions

The ongoing COVID-19 pandemic is still causing a significant decrease in traffic due to closed or limited business operations and telecommuting. Therefore, historical data was used which was collected before the onset of the pandemic, with a growth rate applied to reflect the existing year 2022 traffic. This methodology was approved with the City during the scoping process.

Traffic counts were collected at all study intersections during the morning (between 7:00 AM and 9:00 AM) and evening (between 4:00 PM and 6:00 PM) peak hours on Wednesday, November 9th, 2016. Each intersection's peak hour was used for analysis. A compounded growth rate of two percent per year was applied to the 2016 traffic volumes to approximate year 2022 existing conditions.

Additionally, trips associated with the previously approved donut shop and convenience market were added as in-process traffic which would have been reflected in recent counts, had those been collected.

The existing traffic volumes at the study intersections during the morning and evening peak hours are shown in Figure 5.

Background Conditions

To provide analysis of the impact of the proposed development on the existing transportation facilities, an estimation of future traffic volumes is required. To calculate future traffic volumes for the year 2024 conditions, a compounded growth rate of two percent per year was applied. A build-out condition of two years was assumed.

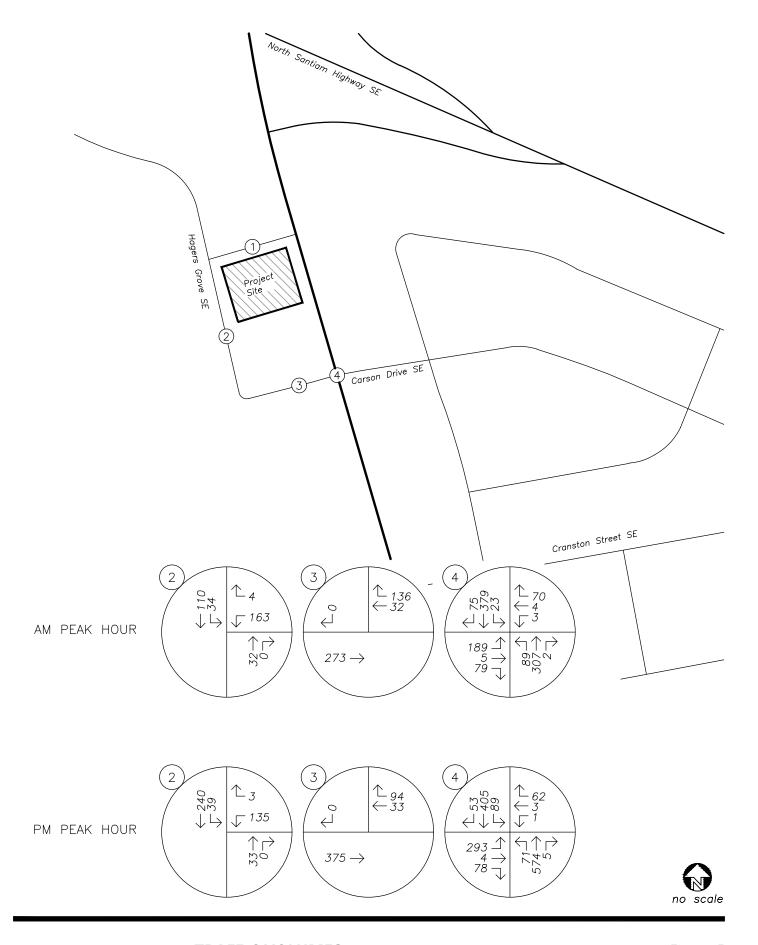
The background traffic volumes at the study intersections during the morning and evening peak hours are shown in Figure 6.

Buildout Conditions

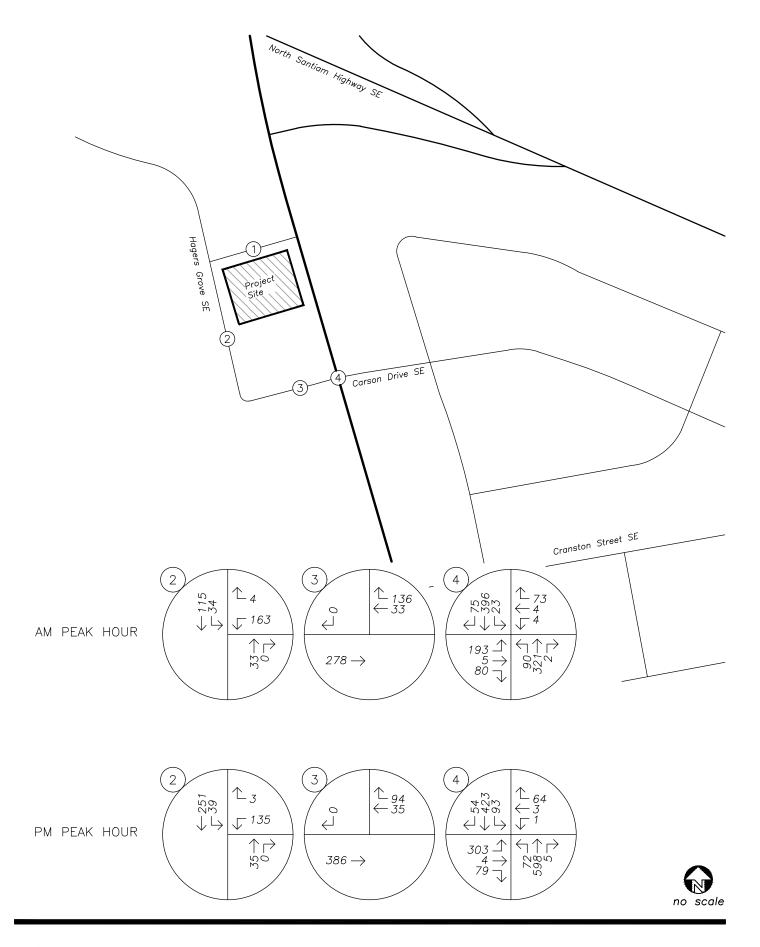
Peak hour trips calculated to be generated by the proposed development, as described earlier within the *Site Trips* section, were added to the projected year 2024 background traffic volumes to obtain the expected 2024 site buildout volumes.

The buildout traffic volumes at the study intersections during the morning and evening peak hours are shown in Figure 7.

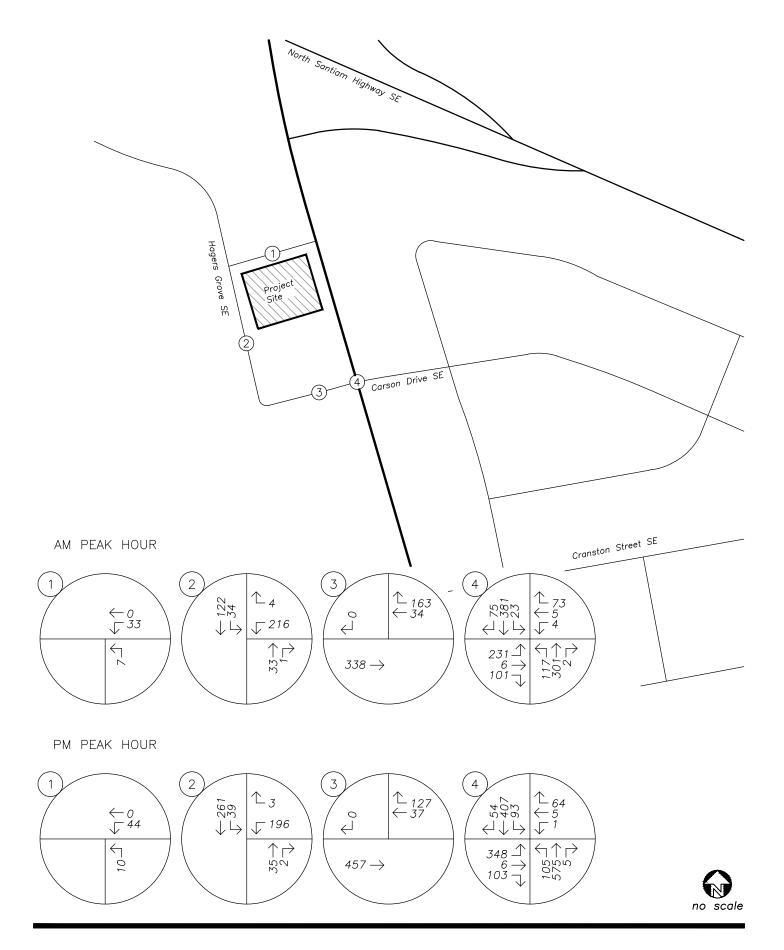














Safety Analysis

Crash History Review

Using data obtained from ODOT's Crash Data System, a review of approximately five years of the most recent available crash history (January 2016 through December 2020) was performed at the study intersections. The crash data was evaluated based on the number of crashes, the type of collisions, and the severity of the collisions. Crash severity is based on injuries sustained by people involved in the crash, and includes five categories:

• Property Damage Only (PDO)

Incapacitating Injury (Injury A)

• Possible Injury (Injury C)

- Fatality or Fatal Injury
- Non-Incapacitating Injury (Injury B)

Crash rates provide the ability to compare safety risks at different intersections by accounting for both the number of crashes that have occurred during the study period and the number of vehicles that typically travel through the intersection. Crash rates were calculated using the common assumption that traffic counted during the evening peak period represents approximately 10 percent of the annual average daily traffic (AADT) at the intersection.

Table 4 provides a summary of crash types while Table 5 summarizes crash severities and rates for each of the study intersections. Detailed crash data is provided in the appendix to this report.

Table 4: Crash Type Summary

		Crash Type								
Intersection		Turn	Rear End	Angle	Fixed Object	Side Swipe	Ped	Bike	Other	Total Crashes
4	Hagers Grove Road SE at Lancaster Drive SE	2	2	1	0	0	0	0	0	5

Table 5: Crash Severity and Rate Summary

Intersection				Severity	Total	Peak Hour	Crash		
		PDO	С	В	Α	Fatal	Crashes	Volume	Rate
4	Hagers Grove Road SE at Lancaster Drive SE	3	2	0	0	0	5	1,771	0.15

Based on review of the most recent five years of available crash data, no significant trends or crash patterns were identified at any of study intersections that would be affected by the proposed development. Accordingly, no safety mitigation is recommneded per crash data analysis.



Preliminary Traffic Signal Warrant Analysis

Traffic signal warrants were examined for all unsignalized intersections based on the methodologies in the Manual on Uniform Traffic Control Devices (MUTCD) published by the Federal Highway Administration in 2009. Volumes were used from the year 2024 buildout conditions. Warrant 1, Eight Hour Vehicular Volumes, was evaluated based on the common assumption that traffic counted during the evening peak hour represents ten percent of the ADT. Detailed information on the traffic signal warrant analysis is included in the attached appendix.

Preliminary traffic signal warrants are not projected to be met any of the unsignalized study intersections upon full buildout of the proposed development.

Left-Turn Lane Warrants

A left-turn refuge lane is primarily a safety consideration for the major-street, removing left-turning vehicles from the through traffic stream. The left-turn lane warrants were examined for all intersections in which site trips are expected to increase the major street left turn movement using methodologies provided within the National Cooperative Highway Research Program's (NCHRP) Report 457. Turn lane warrants were evaluated based on the number of advancing and opposing vehicles as well as the number of turning vehicles, the travel speed, and the number of through lanes.

Left-turn lane warrants are not projected to be met at the applicable study intersection under the year 2024 buildout scenario.



Operational Analysis

Intersection Capacity Analysis

A capacity and delay analysis were conducted for each of the study intersections per the unsignalized intersection analysis methodologies in the *Highway Capacity Manual* (HCM)². Intersections are generally evaluated based on the average control delay experienced by vehicles and are assigned a grade according to their operation. The level of service (LOS) of an intersection can range from LOS A, which indicates very little, or no delay experienced by vehicles, to LOS F, which indicates a high degree of congestion and delay.

Performance Standards

According to the City of Salem's Transportation System Plan (TSP), the City shall allow its existing streets and intersections to function at LOS E during the morning and evening peak travel hours. However, traffic impacts created by new development, as identified in a traffic impact analysis, must be mitigated to maintain peak hour LOS D or better

Delay & Capacity Analysis

The LOS, delay, and v/c results of the capacity analysis are shown in Table 6 for the evening peak hour. Detailed calculations as well as tables showing the relationship between delay and LOS are included in the appendix to this report.

² Transportation Research Board, *Highway Capacity Manual 6th Edition*, 2016.



Table 6: Capacity Analysis Summary

Interportion 9 Condition	A	AM Peak Hou	ır	PM Peak Hour						
Intersection & Condition	LOS	Delay (s)	V/C	LOS	Delay (s)	V/C				
Hagers Grove Road SE at Northern Site Access										
Year 2024 Buildout Conditions	А	9	0.01	А	9	0.01				
2. Hagers Grove Road SE at Western Site Access										
Year 2022 Existing Conditions	В	11	0.24	В	13	0.25				
Year 2024 Background Conditions	В	12	0.25	В	13	0.25				
Year 2024 Buildout Conditions	В	12	0.33	В	15	0.37				
Hagers Grove Road SE at Southern Site Access										
Year 2022 Existing Conditions	А	9	0.01	А	9	0.01				
Year 2024 Background Conditions	А	9	0.01	А	9	0.01				
Year 2024 Buildout Conditions	А	9	0.01	А	9	0.01				
4. Hagers Grove Road SE at Lancaster Drive SE										
Year 2022 Existing Conditions	В	14	0.77	В	14	0.82				
Year 2024 Background Conditions	В	15	0.79	В	14	0.85				
Year 2024 Buildout Conditions	В	16	0.86	В	17	0.89				

Based on the results of the operational analysis, all study intersections are currently operating acceptably per jurisdictional standards and are projected to continue operating acceptably through the 2024 site buildout year. No operational mitigation is necessary or recommended at these intersections.



Conclusions

Key findings include:

- No significant trends or crash patterns were identified at any of the study intersections that would be
 affected by the proposed development. Accordingly, no safety mitigation is recommended per the
 crash data analysis.
- Preliminary traffic signal warrants are not projected to be met any of the unsignalized study intersections upon full buildout of the proposed development. Accordingly, no related mitigation is necessary or recommended.
- Left-turn lanes are not projected to be met at the applicable intersections upon full buildout of the proposed development. Accordingly, no related mitigation is necessary or recommended.
- All study intersections are currently operating acceptably per jurisdictional standards and are projected to continue operating acceptably through the 2024 site buildout year.



Appendix A – Site Data

Site Plan

Trip Generation Calculations



Stop-N-Save Gas

New Gas Station and C-Store

3997 Carson Dr SE Salem OR 97317

DRAWINGS LIST:

VICINITY IMAGE:

GENERAL DRAWINGS G0.01 COVER SHEET G0.02 GENERAL NOTES G3.01 PERSPECTIVE VIEWS SYMBOL LEGEND: Revision Description Revision Sheet Issue Date - Current Revision - Description

PROJECT TEAM:

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Loura A. Antonson, LA
Pt. 503.784.6494 E: loura_a_antonson@hotmail.com

STRUCTURAL ENGINEERING:

SITE IMAGE:

- ELEVATION NUMBER OR DESIGNATION AS OCCUI

EVISION NUMBER

G0.01

SIDE NOTE IF REQUIRED

BUILDING SECTION

ELEVATION DATUM

OPEN ARROW DENOTES WALL SECTION/DETAIL

Stop-N-Save Gas **New Gas Station**

3997 Carson Dr SE Salem OR 97317

PROJECT # 2020-109 DATE: 01/17/2022 REVISIONS

2 7 5 COURT ST NI SALEM, OR 97301-344: 9: 503.390.6501 www.studio3architecture.con



GENERAL NOTES:

- General nates apply to all drawings.

 All contention dell condy with the Origina Structural Specials Code. Construction that all contents are the original structural specials of the Structural Specials (Structural Specials Code).

 Structural Specials Code. Accessibility sided comply with the ASIQICC A1171.

 Structural Specials Code Accessibility sided comply with the ASIQICC A1171.

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 b. CPCI Cover Framibled. Contractor Installed
 c. CPCI Cover Framibled. Contractor Installed
 d. CPCI Cover Framibled. Control Installed
 d. CPCI Cover Framibled
 d. CPCI Cover Framibled
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- All conductions consistent with the production broaded by other to provide the other conductions and the conduction of t
- The general contractor shall locate all existing utilities whether shown hereon or not and to protect them from durings. The general contractor shall bear all expenters of repair or replacement of utilities or other properly damaged by operations in conjunction with the
- ontractor shall secure all permits required by the local jurisdiction, state agency
- Mechanical hora, plumbing, fire suppression, low voltage and electrical work require separate permits. Trade subcontractors shall secure all required permits affecting their scope of work. Exit doors shall be operable from the insides without the use of the layer arm psecial knowledge of the factor. Exit doors shall swing in the direction of sell travel when serving an occupant load greater a.e., or.
- Has 50.

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 2. Coordinate location of reseased or sems-received items to avoid book to book installation and to advance location of the through partiess.

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- General: the contractor shall submit shop drowings, product data and samples. The general contractor shall from oughly review and feeds all submitles, coordinating separate trades and withing conformance with the contract documents. The designer shall not review a will return without review any drawings or submitteds not reviewed and noted by the general contraction.
- contractor.

 5. Submittals stall include shop drawings, schedules and manufacturer's product and equipment

 5. Submittals stall include shop drawings, schedules and manufacturer's produce for all fluences, equipment infinites, special materials, specialisms, milliourie & corework,

 doors, firmers, and bendume.

 1. Firish mayerials; contractor shall submit samples of all finishes and materials, finishes shall be or

- 6. Minmum intriple size.

 o. Wood weemed products. 8 1/x x 11 x 1/x

 b. Solid lumber 50 source inches

 c. Other inhelve and miscellamous motorish. 6 x x 6 x

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 b. Step drawings: 1 pdf

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 8. Submittal markings the samples shall bear identification of the project, designer, general controller, and the framoulabeture?

 9. Carching grade of milbook and cosework: ANII quality standards and specifications shall grown according to the following grades:

 1. Source (Instance): Present Grade

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 d. Architectural fluids doors (natural finally: Premium Grade)

 d. Architectural fluids doors (natural finally: Premium Grade)

DEFERRED SUBMITTALS:

- Deferred submittal review process: the portions of the project listed below will be constructed using a design/build approach.

 The drawings included in this package are preliminary to provide a basis for bidding and

- 2. Continuation direntings for the portional lated are to be provided by the contractor as "determed understand for downings."

 2. Obtermed submitted downings require approved of both architecturing/invariant for authority howing jurisdiction prior to construction per OSAC, propagraph 107.3.4.2.

 3. The procedure for determed submitted is as follows.

 5. The procedure for wises and provide submitted stamp of approval.

 6. Deferred submitted for the Submitted of the architector provide.

 7. Following the completion of the architects review the contractors and submitted to the authority.

 8. Work all what observed submitted laters shall be preferred authorities documents from been appropriate flavor shell not be performed until the determed submitted.

 9. Recritical service design.

 10. Recritical service design.

 11. Mechanical HVAC (Federing Variation) And Arc Conditioning) system design.

 12. First approximation and service shell invalid but not be limited to the following:

 13. Even design of the submitted services shell include but not be limited to the following:

 14. First provision.

 15. First agreement WAC (Federing Variation) And Arc Conditioning) system design.

 16. First provision.

 17. And the submitted services shell include but not be limited to the following:

 18. First provision.

 19. First provision.
- Frie alarm (approved first by general contractor)
 Fried design, engineering and shop drawings shall be submitted to architect for review and approval prior to proceeding, shop drawings shall include all materials, configurations, and finishes.

DESIGN-BUILD NOTES:

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- initials that Spass.

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 As sepanted acoust: the calling contening and required, maintain min 6" from grid, contractory shall be responsible for complete as-built documents at the completion of the project and shall submit reproducible copies to the fundland of their records.

.C.P. GENERAL NOTES

- and systems maintenance. Verify manufacture

- Incommendations.

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PLUMBING MECHANICAL GENERAL NOTES:

- Plumbing systems work for this project is shown for design-build guidance. Plumbing tidures are located on drawings for location only. Contirm fixture selection with owner prior to insel·lia-tion.
- prior to intelligen.

 3. Equipment standals does not specifi on injuncting fitness such as grease traps, faccets, presenter exclusing values, etc. Nor does it includes final connection to service. Flumberg contractor to provide it increases.

 4. Connection to studenticates shall be responsible for obtaining and paying for all inspections and lastis equived by any governmental agency to implement the johns and accept any responsible for obtaining and paying for all inspections or people, which shall be paid for by the revents.

 5. Plumberg exclusions to provide coughin and final connect.

 6. Plumberg connection to provide coughin and final connect.

 7. Although some bord drains may be shown on plans, provide call required floor drains par the plumberg colors.

HVAC MECHANICAL GENERAL NOTES:

- Mechanical HVAC work for this project is shown for design-build quidance. Mechanical HVAC work for this project consists in exhaust fans and duct work as well as any code modeland wentfall from the control of the control of the control of the control of Exhaust fans and circulation fans are located on drawings for general location only. String is the responsibility of the design build controlor. Confirm equipment selection with owner prior to intallation.
- HVAC subcontractor to provide submittal information and receive owner approval prior to
- 5. Contract is required to resime the drowings of all induced at work contracts is responsible for conditional of this and road the work of all labeloaments with all discours and work I is this contractor responsibility to provide all the subcontractors with a complete set of led documents.
 6. Contractor or its above processes shall be suppossible for bothings and policy for all inspections and seas required by both processes all suppossible for bothings and of acquired any required second language of suppossible for professional processes. The contract shall formula and result inspection of success and seasons are required as a supposition of successes and seasons with the general contractor and bundlet price to build.
 7. The contractor shall formed in land on you obtained and tractived that treatments with the general contractor and bundlet price to build.

ELECTRICAL GENERAL NOTES:

- 1. Electrical work for this project is shown for delays-half guidence.
 2. Light finance and electric harring devices are broaded or demonity for general location only. Sing of luman output and power consumption is the negociality of the design bound contractor. Confirm finance selectron, with owner proto in national contractor and subcontractors are equivaled to movem the demonity for all delected or with a Contractor and subcontractors are required to movem the demonity for all delected or with a Contractor and subcontractors with all delectrical demolstens in this contractor, responsibility no provided in the subcontractors with a complete set of bid doctoment of the proposality or provided in the subcontractors with a complete set of bid doctoment of years from the proposality for all impactions and thesis required by very powerment agreety to implement the plans and accept only required particular and provided in the proposality of years and years are proposality of years and years and years and years are proposality of years and years and years are proposality of years and years are proposality of
- protection or suppression devices.

 7. Externent of recoproless, convenience outless, switches, smoke detectors, etc must meet electrical code requirements, accessibility requirements and must be retiredly laid out in the sease evolubile.

 8. Creating indicated on plan is porticilly diagrammatic for clarity. Circuiting shall be "timu-white."
- Chromotomer and the portically diagrammetric for clarity. Circuiring shall be "thru-wiring" where and whenever possible.
 Field wrife word-bearing and electrical requirements of ell HVAC equipment with mechanical contractor prior to ordering related electrical equipment.
- Coordinate with tenant's equipment power requirements.
 Electrical contractor shall make all final connections as required for a fully complete and

- operable system.

 12. All sub-up dimensions from finished floor to center of box.

 13. Equipment letted on equipment schedule will be unconed and set in place only. Rough in and find flookly will performed by the selection contractor.

 14. All electrical contractor to the international trade.

 15. Electrical contractor to framich disconnectivativen code rapines.

 16. Equipment letted on the equipment schedule does not include electrical tilings such as relays a disconnects to the effected general.

 17. Plags should enter recognised from the dimension side of symbols unless noted otherwise.

REFUELING CANOPY - DESIGN BUILD NOTES:

- These drowings provide the general configuration of the re-heling canopy only, including general base and between highest. Design field compactor is exponsible for structural engineering of the corony system modeling foundations, in accordance with the Organ because 1 Section (Lock (ISSG).

 Design field compactor is exponsible for first including strategy system.

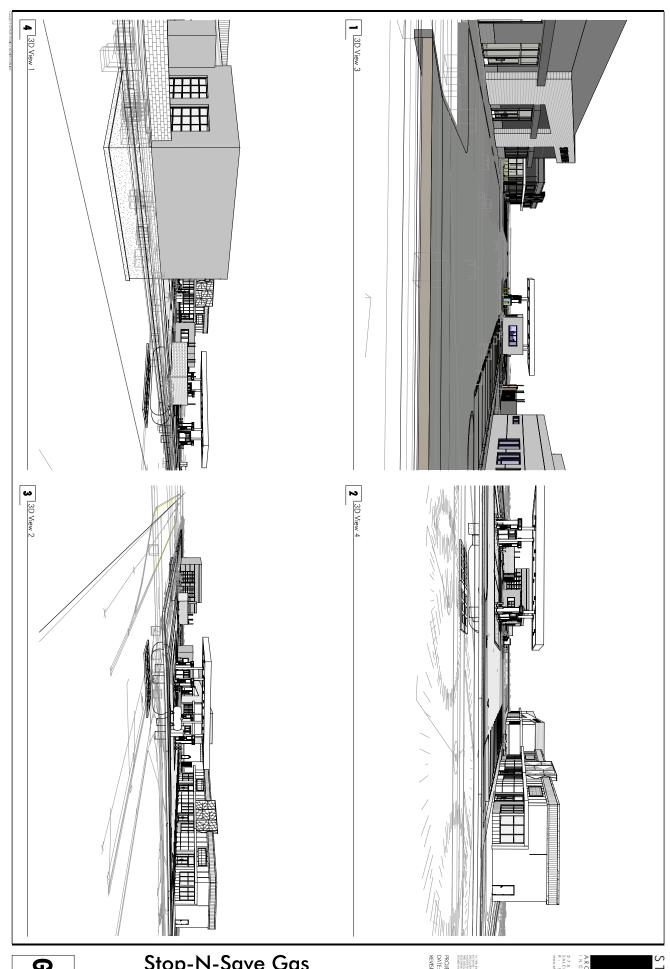
 Design field compactor is exponsible for first including strategy system.

- Apply for permits associated with the erection of the canopy system. Design canopy to callect and direct storm water to the site storm deringage system. Provide canopy lighting to Illumination standard required by the the Viseling brand. Coordinate electrical work and requirements with the owner and sitework contracto.
- 275 COURT ST NE SALEM, OR 97301-3442 P: 303.390.6500 www.studio3architecture.com

PROJECT # 2020-109 DATE: 01/17/2022

New Gas Station 3997 Carson Dr SE Salem OR 97317

Stop-N-Save Gas



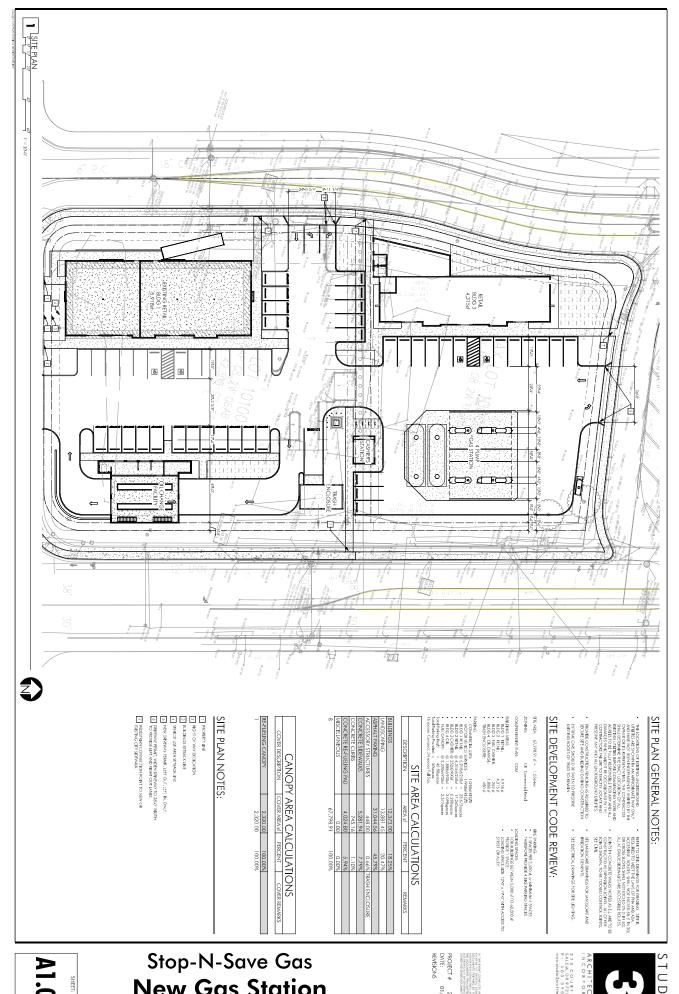
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Stop-N-Save Gas
New Gas Station

3997 Carson Dr SE Salem OR 97317

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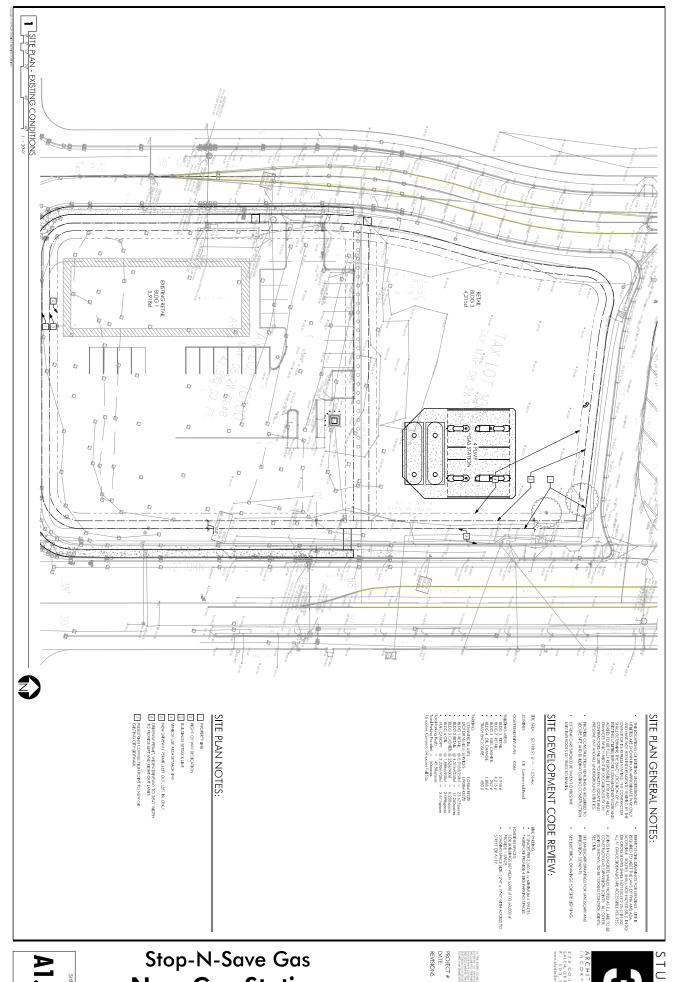
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New Gas Station

3997 Carson Dr SE Salem OR 97317

PROJECT # 2020-109 DATE: 01/17/2022 REVISIONS



New Gas Station

3997 Carson Dr SE Salem OR 97317

High-Turnover (Sit-Down) Restaurant (932)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

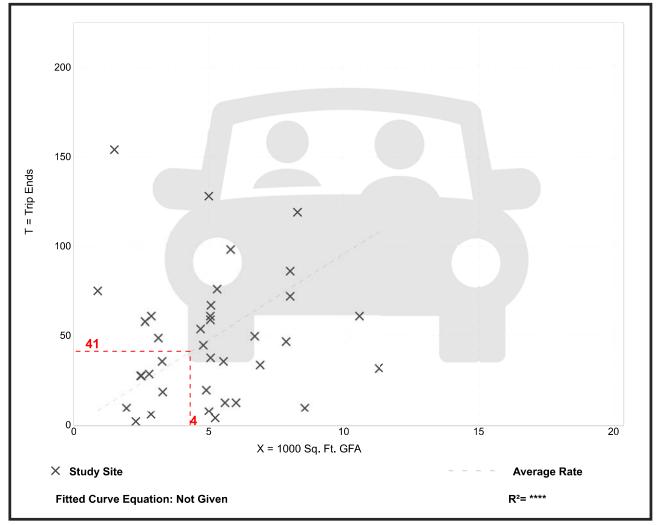
Number of Studies: 37 Avg. 1000 Sq. Ft. GFA: 5

Directional Distribution: 55% entering, 45% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.57	0.76 - 102.39	11.61

Data Plot and Equation



Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

High-Turnover (Sit-Down) Restaurant (932)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

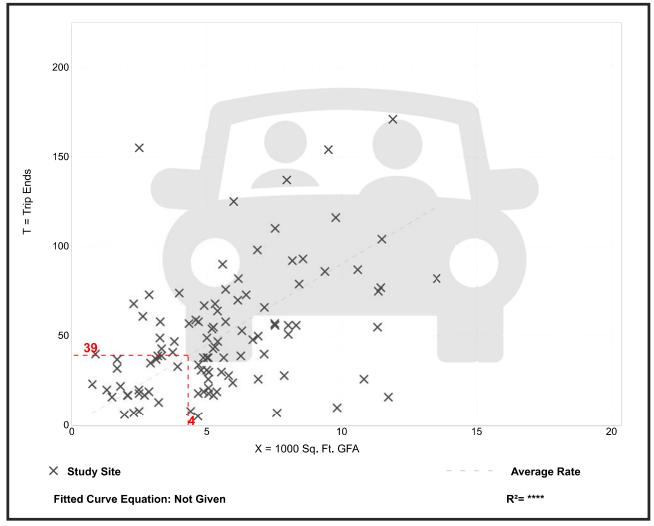
Number of Studies: 104 Avg. 1000 Sq. Ft. GFA: 6

Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.05	0.92 - 62.00	6.18

Data Plot and Equation



Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

Gasoline/Service Station

(944)

Vehicle Trip Ends vs: Vehicle Fueling Positions

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

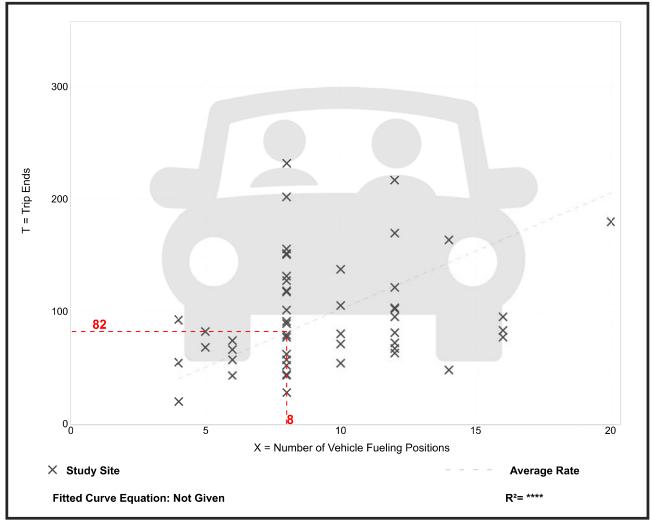
Number of Studies: 53 Avg. Num. of Vehicle Fueling Positions: 9

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Vehicle Fueling Position

Average Rate	Range of Rates	Standard Deviation
10.28	3.50 - 29.00	5.36

Data Plot and Equation



Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

Gasoline/Service Station

(944)

Vehicle Trip Ends vs: Vehicle Fueling Positions

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

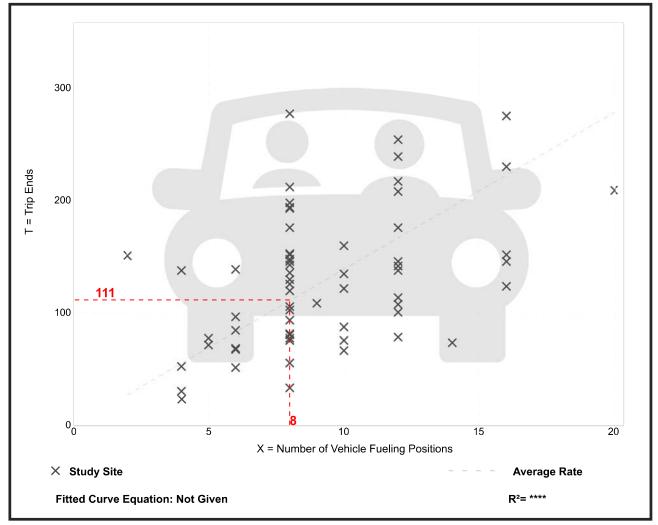
Number of Studies: 65 Avg. Num. of Vehicle Fueling Positions: 9

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Vehicle Fueling Position

Average Rate	Range of Rates	Standard Deviation
13.91	4.25 - 75.50	6.93

Data Plot and Equation



Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

12	11	8	7.1	6.2	5.8	5.7	5.3	5	4.6	3.1	2.9	GFA (000)			Average Pass-By Rate	# Data Sites	Time Period	Setting	Land Use	Land Use Code			
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317	267	664	_	521	150	308	24	65	276	21	41	# Interviews		P							rce: IIE <i>Irip G</i>	Vehicle Pas	
29	38	40	23	46	32	57	50	58	63	38	37	Trip (%)	Pass-By	ass-By Char			Wee	Gene	High-Turno		eneration N	ss-By Rates	
51	43	39	23	43	1	ı	37	I	1	29	27	Primary (%)	No	Pass-By Characteristics for Indivi	43%	12	Weekday PM Peak Period	General Urban/Suburban	High-Turnover (Sit-Down) Restaurant	932	Source: ITE Irip Generation Manual, 11th Editio	Vehicle Pass-By Rates by Land Use	
20	19	21	54	11	I	-	13	I	I	33	36	Diverted (%)	Non-Pass-By Trips	ndividual Sites			eriod	ırban	Restaurant		ition		
71	62	60	77	54	68	43	50	42	37	62	63	Total (%)											
-	I	-	1565	1	I	I	1615	I	I	2580	3935	Hour Volume	Adj Street Peak										
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12	10	10	8	8	8	8	8	8	8	6	6	Vehicle Fueling Positions S			Average Pass-By Rate	# Data Sites	Time Period	Setting	Land Use	Land Use Code			
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1992	1993	1993	1992	1992	1993	1993	1993	1992	1992	1992	1992	Year	Survey								Sour	,	
36	ı	47	46	36	l	48	61	35	46	21	21	# Interviews		P							ce: IIE <i>Irip Ge</i>	venicle Pass-by Rates by Land Ose	Vahida Bac
61	46	67	75	47	56	68	60	78	87	43	67	Trip (%)	Pass-By	ass-By Char			Wee	Gen	Gas		neration Mi	-by Kates	By Batas
8	42	11	0	14	22	13	15	9	13	28	14	Primary (%)	No	Pass-By Characteristics for Inc	63%	12	Weekday AM Peak Period	General Urban/Suburban	Gasoline/Service Sta	944	Source: ITE <i>Trip Generation Manual</i> , 11th Ealti	by Land Use	
31	12	22	25	39	22	19	25	13	0	29	19	Diverted (%)	Non-Pass-By Trips	idividual Sites			eriod	ırban	ation		lion		
39	54	33	25	53	44	32	40	22	13	57	33	Total (%)											
3480	1211	1105	3770	3095	1211	1307	4000	7080	2235	870	900	Hour Volume	Adj Street Peak										
25	2	2	25	25	2	2	2	25	25	25	25	Source											

Source: ITE Trip Generation Manual, 11th Edition 944 9	1									
Source: Trip Generation Jith Edition		I	27		1	73	1	2009	New Jersey	12
Source: ITE Trip Generation Manual, 11th Edition 944		_	39	-	1	61	1	2009	Pennsylvania	12
Source: ITE Trip Generation Manual , 11th Edition 944		1	60	1	1	40	1	2009	Pennsylvania	12
Source: ITE Trip Generation Manual , 11th Edition 944		1	49	-	1	51	-	2009	Pennsylvania	12
Source::ITE Trip Generation Manual, 11th Edition		1	34	1	1	66	1	2009	Pennsylvania	12
Source: ITE Trip Generation Manual, 11th Edition 944		3835	62	52	10	38	52	1992	Maryland	12
Source: Trip Generation Maryland 1992 188 Maryland 1992 35 Maryland 1993 57 Maryland 1992 35 Maryland 1992 35 Maryland 1993 57 Maryland 1993 57 19 24 Maryland 1993 57 19 24 43 1812 Maryland 1993 190 180 180 180 180 180 180 180 180 180 180 180 180 1		2657	45	29	16	55	1	1993	Kentucky	10
Source: ITE Trip Generation Manual, 11th Edition 944		1812	43	24	19	57	-	1993	Kentucky	10
Source: ITE Trip Generation Manual, 11th Edition 944		7080	46	43	3	54	35	1992	Maryland	8
Source: ITE Trip Generation Manual, 11th Edition 944		3770	54	43	11	46	46	1992	Maryland	8
Source: TE Trip Generation Manual, 11th Edition 944 945 944 945 944 945 944 945 944 945 944 945 944 945 944 945 944 945 944 945 944 945 944 945 944 945 945 944 945 945 944 945 944 945 945 944 945 9		3095	33	19	14	67	36	1992	Maryland	8
Source: TE Trip Generation Manual, 11th Edition		2657	28	21	7	72	1	1993	Kentucky	8
Source: TE Trip Generation Manual, 11th Edition		1491	47	27	20	53	60	1993	Kentucky	8
Source: TE Trip Generation Manual, 11th Edition		4965	48	40	8	52	83	1993	Kentucky	8
Source: TE Trip Generation Manual, 11th Edition 944		2635	38	15	23	62	47	1992	Maryland	8
Source: TE Trip Generation Manual , 11th Edition		1020	42	31	11	58	26	1992	Maryland	6
Source: ITE Trip Generation Manual, 11th Edition 944 Gasoline/Service Station General Urban/Suburban Meekday PM Peak Period State or Province Year Ye		2510	39	33	6	61	18	1992	Maryland	6
Vehicle Pass-By Rates by Land Use Source: ITE Trip Generation Manual, 11th Edition 944 Gasoline/Service Station General Urban/Suburban Weekday PM Peak Period 17 57% Pass-By Characteristics for Individual Sites Survey Pass-By Non-Pass-By Trips	So	Hour Volume	Total (%)	Diverted (%)	Primary (%)	Trip (%)	# Interviews	Year	State or Province	Vehicle Fueling Positions
Vehicle Pass-By Rates by Land Use Source: ITE Trip Generation Manual, 11th Editio 944 Gasoline/Service Stati General Urban/Suburl Weekday PM Peak Per 17 57% Pass-By Characteristics for Indi		Adj Street Peak		n-Pass-By Trips	No	Pass-By		Survey		
Vehicle Pass-By Rassource: ITE Trip Generation				ndividual Sites	acteristics for In	ass-By Char	P			
Vehicle Pass-By Ra Source: ITE <i>Trip Generatic</i>					57%					Average Pass-By Rate
Vehicle Pass-By Rass-By Rass-B					17					
Vehicle Pass-By Ra Source: ITE <i>Trip Generatio</i>				eriod	kday PM Peak P	Weel				Time Period
Vehicle Pass-By Rates by Land Use Source: ITE Trip Generation Manual , 11th Editic 944 Gasoline/Service Stati				ırban	eral Urban/Subu	Gene				Setting
Vehicle Pass-By Rates by Land Use Source: ITE Trip Generation Manual, 11th Editic				ation	oline/Service Sta	Gasc				Land Use
Vehicle Pass-By Rates by Land Use Source: ITE Trip Generation Manual , 11th Edition					944					Land Use Code
Vehicle Pass-By Rates by Land Use				Clon	anuai , 11th Ealt	neration Mic	ce: IIE <i>Irip Ge</i>	Sour		
					by Land Use	-by Kates	Venicle Pass			
						-By Datos I	Vahiola Dass			

Appendix B – Traffic Data

Traffic Counts



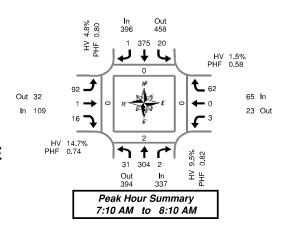
Total Vehicle Summary



Lancaster Dr SE & Hagers Grove Rd SE

Wednesday, November 09, 2016 7:00 AM to 9:00 AM

5-Minute Interval Summary 7:00 AM to 9:00 AM



Interval		North	bound			South	bound			Eastl	oound		i	Westl	oound				Pedes	trians	
Start		Lancast	er Dr S	E		Lancaste	er Dr Sl	E	Ha	igers Gr	ove Rd	SE	Ha	gers Gr	ove Rd	SE	Interval		Cros	swalk	
Time	L	Т	R	Bikes	L	T	R	Bikes	L	Т	R	Bikes	L	T	R	Bikes	Total	North	South	East	West
7:00 AM	0	21	0	0	1	20	1	0	6	0	1	0	0	0	7	0	57	0	0	0	0
7:05 AM	2	19	0	. 0	3	20	0	0	5	0	2	0	0	0	7	0	58	0	0	0	0
7:10 AM	4	26	0	. 0	1	29	0	0	4	0	1	0	0	0	7	0	72	0	0	0	0
7:15 AM	2	18	11	. 0	2	25	0	0	10	0	0	0	0	0	5	0	63	0	1	0	0
7:20 AM	1	26	0	. 0	2	30	0	0	4	0	1	0	0	0	2	0	66	0	0	0	0
7:25 AM	4	25	0	0	2	23	0	0	7	0	2	0	0	0	7	0	70	0	0	0	0
7:30 AM	2	27	1	0	0	30	0	0	5	0	3	0	0	0	3	0	71	0	0	0	0
7:35 AM	2	38	0	0	11	37	0	0	5	11	2	0	11	0	8	0	95	0	0	0	0
7:40 AM	4	24	0	. 0	0	32	0	0	14	0	0	0	0	0	14	0	88	0	0	0	0
7:45 AM	2	33	0	. 0	3	42	0	0	11	0	2	0	0	0	55	0	98	0	11	0	0
7:50 AM	1	26	0	. 0	1	36	0	0	8	0	2	0	0	0	1	0	75	0	0	0	0
7:55 AM	4	18	0	0	11	40	1	0	8	0	0	0	0	0	5	0	77	0	0	0	0
8:00 AM	2	18	0	0	4	28	0	0	9	0	2	0	11	0	11	0	65	0	0	0	0
8:05 AM	3	25	0	0	3	23	0	0	7	0	11	0	11	0	4	0	67	0	0	0	0
8:10 AM	3	15	1	0	1 1	22	0	0	6	0	2	0	0	0	3	0	53	0	0	0	0
8:15 AM	2	20	0	0	1	18	0	0	11	0	2	0	0	0	5	0	59	0	0	0	1 1
8:20 AM	2	21	1	0	0	21	0	0	11	0	2	0	0	0	4	0	62	0	0	0	0
8:25 AM	5	21	0	1 1	11	28	0	0	11	0	5	0	0	0	6	0	77	00	0	0	0
8:30 AM	2	17	0	. 0	1	28	1	0	8	11	11	0	0	0	3	0	62	00	0	0	0
8:35 AM	5	24	1	. 0	1	19	0	0	9	11	2	0	1	0	4	0	67	0	0	0	0
8:40 AM	0	29	1	. 0	4	24	1	0	11	0	2	0	0	0	1	0	73	0	0	1	0
8:45 AM	3	29	0	. 0	2	17	1	0	14	0	3	0	0	1	5	0	75	0	0	0	0
8:50 AM	5	28	0	. 0	2	29	0	0	10	0	0	0	0	0	3	0	77	0	0	0	0
8:55 AM	3	27	0	. 0	3	17	0	0	9	0	4	0	0	0	2	0	65	0	0	0	0
Total Survey	63	575	6	1	40	638	5	0	203	3	42	0	4	1	112	0	1,692	0	2	1	1

15-Minute Interval Summary 7:00 AM to 9:00 AM

Interval		North	bound			South	bound			Eastk	ound			West	bound				Pedes	trians	
Start	L	Lancast	er Dr S	E		Lancast	er Dr Sl	<u> </u>	Ha	igers Gr	ove Rd	SE	Ha	igers Gr	ove Rd	SE	Interval	l	Cros	swalk	
Time	L	T	R	Bikes	L	T	R	Bikes	L	T	R	Bikes	L	Т	R	Bikes	Total	North	South	East	West
7:00 AM	6	66	0	0	5	69	1	0	15	0	4	0	0	0	21	0	187	0	0	0	0
7:15 AM	7	69	1	0	6	78	0	0	21	0	3	0	0	0	14	0	199	0	1	0	0
7:30 AM	8	89	1	0	1	99	0	0	24	1	5	0	1	0	25	0	254	0	0	0	0
7:45 AM	7	77	0	0	5	118	1	0	27	0	4	0	0	0	11	0	250	0	1	0	0
8:00 AM	8	58	1	0	8	73	0	0	22	0	5	0	2	0	8	0	185	0	0	0	0
8:15 AM	9	62	1	1 1	2	67	0	0	33	0	9	0	0	0	15	0	198	0	0	0	1
8:30 AM	7	70	2	0	6	71	2	0	28	2	5	0	1	0	8	0	202	0	0	1	0
8:45 AM	11	84	0	0	7	63	1	0	33	0	7	0	0	1	10	0	217	0	0	0	0
Total Survey	63	575	6	1	40	638	5	0	203	3	42	0	4	1	112	0	1,692	0	2	1	1

Peak Hour Summary 7:10 AM to 8:10 AM

Bv		North	bound			South	bound			Eastk	ound			West	bound		
Approach		Lancast	er Dr SE			Lancast	er Dr SE		Ha	gers Gr	ove Rd	SE	Ha	agers Gi	ove Rd	SE	Total
Арргоасп	ln	Out	Total	Bikes	ln	Out	Total	Bikes	ln	Out	Total	Bikes	In	Out	Total	Bikes	
Volume	337	394	731	0	396	458	854	0	109	32	141	0	65	23	88	0	907
%HV		9.	5%			4.8	3%			14.	.7%			1.	5%		7.5%
PHF		0.	82			0.	80			0.	74			0.	58		0.81

	Pedes	trians	
	Cross	swalk	
North	South	East	West
0	2	0	0

Bv		North	bound			South	bound			Easth	ound			Westl	ound		
Movement		Lancast	er Dr S	E		ancast	er Dr S	E	Ha	igers Gr	ove Rd	SE	Ha	gers Gr	ove Rd	SE	Total
Movement	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	
Volume	31	304	2	337	20	375	1	396	92	1	16	109	3	0	62	65	907
%HV	9.7%	9.5%	0.0%	9.5%	10.0%	4.5%	0.0%	4.8%	14.1%	0.0%	18.8%	14.7%	0.0%	0.0%	1.6%	1.5%	7.5%
PHF	0.86	0.80	0.50	0.82	0.63	0.79	0.25	0.80	0.70	0.25	0.57	0.74	0.38	0.00	0.57	0.58	0.81

Rolling Hour Summary 7:00 AM to 9:00 AM

Interval		North	bound			South	bound			Easth	oound			Westl	ound				Pedes	trians	
Start		Lancast	er Dr S	E		Lancast	er Dr Sl	Ε	Ha	agers Gr	ove Rd	SE	Ha	agers Gr	ove Rd	SE	Interval		Cross	swalk	
Time	L	T	R	Bikes	L	T	R	Bikes	L) T	R	Bikes	L	T	R	Bikes	Total	North	South	East	West
7:00 AM	28	301	2	0	17	364	2	0	87	1	16	0	1	0	71	0	890	0	2	0	0
7:15 AM	30	293	3	. 0	20	368	1	0	94	1	17	0	3	0	58	0	888	0	2	0	0
7:30 AM	32	286	3	1	16	357	1	0	106	1	23	0	3	0	59	0	887	0	1	0	1
7:45 AM	31	267	4	1 1	21	329	3	0	110	2	23	0	3	0	42	0	835	0	1	1	1
8:00 AM	35	274	4	1	23	274	3	0	116	2	26	0	3	1	41	0	802	0	0	1	1

Heavy Vehicle Summary



Clay Carney (503) 833-2740

Lancaster Dr SE & Hagers Grove Rd SE

Wednesday, November 09, 2016 7:00 AM to 9:00 AM Out In 20 32

Peak Hour Summary
7:10 AM to 8:10 AM

29

Out 3

In 16

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Heavy Vehicle 5-Minute Interval Summary 7:00 AM to 9:00 AM

Interval		North	bound			South	bound			Eastb	ound		ĺ	Westl	oound		
Start		Lancast	er Dr SE			Lancast	er Dr SE		Ha	gers Gr	ove Rd	SE	Ha	agers Gr	ove Rd	SE	Interval
Time	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	T	R	Total	Total
7:00 AM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
7:05 AM	1	1	0	2	0	2	0	2	0	0	0	0	0	0	0	0	4
7:10 AM	0	1	0	1	0	2	0	2	0	0	0	0	0	0	0	0	3
7:15 AM	0	1	0	1	0	1	0	1	1	0	0	1	0	0	0	0	3
7:20 AM	1	11	0	2	0	2	0	2	0	0	0	0	0	0	0	0	4
7:25 AM	0	3	0	3	0	0	0	0	1	0	0	1	0	0	0	0	4
7:30 AM	0	1	0	1	0	1	0	1	0	0	1	1	0	0	0	0	3
7:35 AM	1	4	0	5	1	1	0	2	1	0	0	1	0	0	0	0	8
7:40 AM	0	1	0	1	0	0	0	0	2	0	0	2	0	0	0	0	3
7:45 AM	1	5	0	6	1	2	0	3	2	0	1	3	0	0	0	0	12
7:50 AM	0	3	0	3	0	2	0	2	2	0	0	2	0	0	0	0	7
7:55 AM	0	3	0	3	0	3	0	3	1	0	0	1	0	0	0	0	7
8:00 AM	0	2	0	2	0	1	0	1	1	0	1	2	0	0	0	0	5
8:05 AM	0	4	0	4	0	2	0	2	2	0	0	2	0	0	11	11	9
8:10 AM	0	3	0	3	0	1	0	1	2	0	0	2	0	0	0	0	6
8:15 AM	0	2	0	2	0	1	0	11	1	0	0	11	0	0	0	0	4
8:20 AM	1	4	0	5	0	3	0	3	1	0	0	11	0	0	0	0	9
8:25 AM	0	3	0	3	0	3	0	3	2	0	0	2	0	0	0	0	8
8:30 AM	0	5	0	5	0	3	0	3	11	1	0	2	0	0	0	0	10
8:35 AM	1	11	0	2	0	3	0	3	0	0	0	0	0	0	0	0	5
8:40 AM	0	5	1	6	1	2	0	3	2	0	0	2	0	0	0	0	11
8:45 AM	0	4	0	4	1	1	0	2	2	0	1	3	0	0	0	0	9
8:50 AM	2	10	0	12	0	3	0	3	1	0	0	1	0	0	0	0	16
8:55 AM	0	3	0	3	1	4	0	5	3	0	1	4	0	0	0	0	12
Total Survey	8	72	1	81	5	43	0	48	28	1	5	34	0	0	1	1	164

Heavy Vehicle 15-Minute Interval Summary 7:00 AM to 9:00 AM

Interval		North	bound			South	bound			Eastk	oound			Westl	bound		
Start		Lancast	er Dr Sl	Ε		Lancast	er Dr St	<u> </u>	Ha	igers Gr	ove Rd	SE	Ha	gers Gr	ove Rd	SE	Interval
Time	L	T	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	Total
7:00 AM	1	4	0	5	0	4	0	4	0	0	0	0	0	0	0	0	9
7:15 AM	1	5	0	6	0	3	0	3	2	0	0	2	0	0	0	0	11
7:30 AM	1	6	0	7	1	2	0	3	3	0	1	4	0	0	0	0	14
7:45 AM	1	11	0	12	1	7	0	8	5	0	1	6	0	0	0	0	26
8:00 AM	0	9	0	9	0	4	0	4	5	0	1	6	0	0	1	1	20
8:15 AM	1	9	0	10	0	7	0	7	4	0	0	4	0	0	0	0	21
8:30 AM	1	11	1	13	1	8	0	9	3	11	0	4	0	0	0	0	26
8:45 AM	2	17	0	19	2	8	0	10	6	0	2	8	0	0	0	0	37
Total Survey	8	72	1	81	5	43	0	48	28	1	5	34	0	0	1	1	164

Heavy Vehicle Peak Hour Summary 7:10 AM to 8:10 AM

Bv	Northbound	Southbound	Eastbound	Westbound	
1 . ' .	Lancaster Dr SE	Lancaster Dr SE	Hagers Grove Rd SE	Hagers Grove Rd SE	Total
Approach	In Out Total	In Out Total	In Out Total	In Out Total	
Volume	32 20 52	19 43 62	16 3 19	1 2 3	68
PHF	0.67	0.59	0.57	0.25	0.65

Bv		North	bound			South	bound			Eastb	ound			Westh	oound		
1 '		Lancast	er Dr SE			Lancast	er Dr SE		Ha	gers Gr	ove Rd	SE	Ha	gers Gr	ove Rd	SE	Total
Movement	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	
Volume	3	29	0	32	2	17	0	19	13	0	3	16	0	0	1	1	68
PHF	0.38	0.66	0.00	0.67	0.25	0.61	0.00	0.59	0.54	0.00	0.75	0.57	0.00	0.00	0.25	0.25	0.65

Heavy Vehicle Rolling Hour Summary 7:00 AM to 9:00 AM

Interval		North	bound			South	bound			Eastb	ound			West	oound		
Start		Lancast	er Dr S	Ε		Lancast	er Dr SE	Ξ	Ha	gers Gr	ove Rd	SE	Ha	agers Gr	ove Rd	SE	Interval
Time	L	T	R	Total	L	T	R	Total	L	Т	R	Total	L	T	R	Total	Total
7:00 AM	4	26	0	30	2	16	0	18	10	0	2	12	0	0	0	0	60
7:15 AM	3	31	0	34	2	16	0	18	15	0	3	18	0	0	1	1	71
7:30 AM	3	35	0	38	2	20	0	22	17	0	3	20	0	0	1	1	81
7:45 AM	3	40	1	44	2	26	0	28	17	1	2	20	0	0	1	1	93
8:00 AM	4	46	1	51	3	27	0	30	18	1	3	22	0	0	1	1	104

Peak Hour Summary All Traffic Data Clay Carney (503) 833-2740 Lancaster Dr SE & Hagers Grove Rd SE 7:10 AM to 8:10 AM Wednesday, November 09, 2016 Lancaster Dr SE Bikes 0 458 396 375 20 Ľ 4 Peds 0 Hagers Grove Rd SE Bikes 0 62 32 0 65 3 K 0 92 109 23 1 16 4 Bikes 0 Hagers Grove Rd SE Peds 2 7 31 304 2 Lancaster Dr SE 394 337 Bikes 0 **Approach** PHF HV% Volume EΒ 0.74 14.7% 109 WB 0.58 1.5% 65 337 NB 0.82 9.5% SB 0.80 4.8% 396 Intersection 0.81 7.5% 907 Count Period: 7:00 AM to 9:00 AM

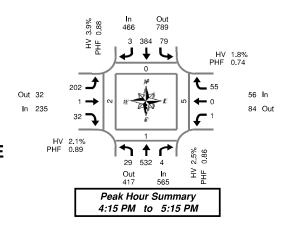
Total Vehicle Summary



Lancaster Dr SE & Hagers Grove Rd SE

Wednesday, November 09, 2016 4:00 PM to 6:00 PM

5-Minute Interval Summary 4:00 PM to 6:00 PM



Interval	Northbound Lancaster Dr SE					South	ound			Eastl	ound		1	Westl	oound				Pedes	trians	
Start	l	Lancast	er Dr S	E		Lancaste	r Dr Sl	E	Ha	gers Gr	ove Rd	SE	Ha	gers Gr	ove Rd	SE	Interval		Cross	swalk	
Time	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	T	R	Bikes	Total	North	South	East	West
4:00 PM	4	16	0	0	8	32	0	0	14	0	7	0	0	1	3	0	85	1	0	0	0
4:05 PM	3	27	0	. 0	4	43	0	0	15	0	2	0	0	0	6	0	100	0	0	0	0
4:10 PM	2	39	0	. 0	6	34	1	0	17	0	5	0	1	0	2	0	107	0	0	0	0
4:15 PM	4	39	11	. 0	8	23	0	0	20	1	4] 0	0	0	3	0	103	0	0	0	0
4:20 PM	4	35	0	. 0	5	31	0	0	16	0	2	0	0	0	7	0	100	0	0	0	0
4:25 PM	2	51	11	. 0	7	40	1) 0	19	0	4) 0	0	0	9	0	134	0	0	0	0
4:30 PM	2	49	0	0	9	39	0	0	14	0	2	0	0	0	2	0	117	0	0	4	0
4:35 PM	1_1_	26	0	. 0	6	27	0	0	24	0	3	11	11	0	7	0	95	0	0	0	0
4:40 PM	2	53	2	0	6	28	00	0	16	0	5	0	0	0	3	0	115	00	0	11	0
4:45 PM	2	63	0	. 0	5	26	1	0	12	0	3	0	0	0	55	0	117		0	0	0
4:50 PM	3	39	0	0	4	26	0	0	18	0	2	0	0	0	5	0	97	0	1	0	2
4:55 PM	3	47	0	0	11	31	0	0	13	0	4	0	0	0	2	0	111	0	0	0	0
5:00 PM	11	44	0	0	9	39	1	0	25	0	11	0	0	0	5	0	125	0	0	0	0
5:05 PM	3	40	0	0	5	37	0	0	6	0	2	0	0	0	4	0	97	0	0	0	0
5:10 PM	2	46	0	0	4	37	0	0	19	0	0	0	0	0	3	0	111	0	0	0	0
5:15 PM	4	30	1_	0	3	27	0	0	5	0	5	0	22	0	7	0	84	2	0	2	0
5:20 PM	11	30	2	0	13	47	0	0	12	0	3	0	0	0	3	0	111	0	0	0	0
5:25 PM	2	33	0	. 0	6	26	0	0	15	0	4	0	0	0	2	0	88	0	0	0	0
5:30 PM	1	38	0	0	8	21	0	0	14	0	3	0	0	0	3	0	88	0	0	0	0
5:35 PM	2	30	0	. 0	8	30	1	0	13	0	4	0	0	0	5	0	93	0	1	0	0
5:40 PM	4	30	1	0	2	24	1	0	13	0	3	0	0	11	3	0	82	0	0	0	0
5:45 PM	2	26	0	. 0	11	48	0	0	10	0	2	0	0	0	3	0	102	0	0	0	0
5:50 PM	0	14	0	0	4	26	0	0	15	0	2	0	0	0	2	0	63	0	0	11	0
5:55 PM	3	28	0	0	8	26	1	0	11	0	1	0	0	0	4	0	82	0	2	0	0
Total Survey	57	873	8	0	160	768	7	0	356	1	73	1	4	2	98	0	2,407	3	4	8	2

15-Minute Interval Summary 4:00 PM to 6:00 PM

Interval		North	bound			South	bound			Easth	ound			Westl	bound				Pedes	trians	
Start	L	Lancast	er Dr S	E	L	Lancast	er Dr Sl	<u> </u>	Ha	igers Gr	ove Rd	SE	Ha	igers Gr	ove Rd	SE	Interval	l	Cros	swalk	
Time	L	T	R	Bikes	L	Т	R	Bikes	L	T	R	Bikes	L	Т	R	Bikes	Total	North	South	East	West
4:00 PM	9	82	0	0	18	109	1	0	46	0	14	0	1	11	11	0	292	1	0	0	0
4:15 PM	10	125	2	0	20	94	1	0	55	1	10	0	0	0	19	0	337	0	0	0	0
4:30 PM	5	128	2	0	21	94	0	0	54	0	10	1	1	0	12	0	327	0	0	5	0
4:45 PM	8	149	0	0	20	83	1	0	43	0	9	0	0	0	12	0	325	0	1	0	2
5:00 PM	6	130	0	0	18	113	11	0	50	0	3	0	0	0	12	0	333	0	0	0	0
5:15 PM	7	93	3	. 0	22	100	0	0	32	0	12	0	2	0	12	0	283	2	0	2	0
5:30 PM	7	98	11_	. 0	18	75	2	0	40	0	10	0	0	1	11	0	263	0	1	0	0
5:45 PM	5	68	0	0	23	100	1	0	36	0	5	0	0	0	9	0	247	0	2	1	0
Total Survey	57	873	8	0	160	768	7	0	356	1	73	1	4	2	98	0	2,407	3	4	8	2

Peak Hour Summary 4:15 PM to 5:15 PM

Bv		North	bound			South	bound			Eastl	oound			West	bound		
Approach		Lancast	er Dr SE			Lancast	er Dr SE		Ha	igers Gr	ove Rd	SE	Ha	agers Gr	ove Rd	SE	Total
Approach	ln	Out	Total	Bikes	ln	Out	Total	Bikes	ln	Out	Total	Bikes	In	Out	Total	Bikes	
Volume	565	417	982	0	466	789	1,255	0	235	32	267	1	56	84	140	0	1,322
%HV	1	2.	5%			3.9	9%			2.	1%			1.3	8%		2.9%
PHF		0.	86			0.	88			0.	89			0.	74		0.94

Ш	l	reues	unans	
Ш	l	Cross	swalk	
П	North	South	East	West
1	0	1	5	2
1				

Bv		North	bound			South	bound			Easth	ound			Westl	ound		
Movement		Lancast	er Dr S	E		Lancast	er Dr S	E	Ha	agers Gr	ove Rd	SE	Ha	gers Gr	ove Rd	SE	Total
Movement	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	
Volume	29	532	4	565	79	384	3	466	202	1	32	235	1	0	55	56	1,322
%HV	3.4%	2.4%	0.0%	2.5%	2.5%	4.2%	0.0%	3.9%	2.0%	0.0%	3.1%	2.1%	#####	0.0%	0.0%	1.8%	2.9%
PHF	0.73	0.86	0.50	0.86	0.79	0.85	0.75	0.88	0.89	0.25	0.73	0.89	0.25	0.00	0.72	0.74	0.94

Rolling Hour Summary 4:00 PM to 6:00 PM

Interval		North	bound			South	bound			Eastl	oound			Westl	oound				Pedes	trians	
Start		Lancast	er Dr S	E		Lancast	er Dr Sl	Ε	Ha	agers Gr	ove Rd	SE	Ha	agers Gr	ove Rd	SE	Interval		Cross	swalk	
Time	L	T	R	Bikes	L	T	R	Bikes	L) T	R	Bikes	L	T	R	Bikes	Total	North	South	East	West
4:00 PM	32	484	4	0	79	380	3	0	198	1	43	1	2	1	54	0	1,281	1	1	5	2
4:15 PM	29	532	4	. 0	79	384	3	0	202	1	32	1	1	0	55	0	1,322	0	1	5	2
4:30 PM	26	500	5	: 0	81	390	2	0	179	0	34	1	3	0	48	0	1,268	2	1	7	2
4:45 PM	28	470	4	0	78	371	4	0	165	0	34	0	2	1	47	0	1,204	2	2	2	2
5:00 PM	25	389	4	0	81	388	4	0	158	0	30	0	2	1	44	0	1,126	2	3	3	0

Heavy Vehicle Summary



Clay Carney (503) 833-2740

Lancaster Dr SE & Hagers Grove Rd SE

Wednesday, November 09, 2016 4:00 PM to 6:00 PM Out In 18 14 Peak Hour Summary 4:15 PM to 5:15 PM

Out 1

In 5

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Heavy Vehicle 5-Minute Interval Summary 4:00 PM to 6:00 PM

Interval		North	bound			South	bound			Eastk	ound			West	bound		
Start		Lancast	er Dr SE			Lancast	er Dr SE	Ē	Ha	gers Gr	ove Rd	SE	Ha	gers Gr	ove Rd	SE	Interval
Time	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	T	R	Total	Total
4:00 PM	0	1	0	1	1	5	0	6	1	0	0	1	0	0	0	0	8
4:05 PM	0	2	0	2	0	3	0	3	2	0	0	2	0	0	0	0	7
4:10 PM	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0	0	2
4:20 PM	0	1	0	1	0	4	0	4	0	0	0	0	0	0	0	0	5
4:25 PM	1	1	0	2	0	2	0	2	1	0	0	1	0	0	0	0	5
4:30 PM	0	2	0	2	1	1	0	2	0	0	0	0	0	0	0	0	4
4:35 PM	0	11	0	11	0	11	0	11	0	0	0	0	11	0	0	1_1_	3
4:40 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	1	1	0	2	1	0	0	1	0	0	0	0	3
4:50 PM	0	3	0	3	0	3	0	3	0	0	0	0	0	0	0	0	6
4:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	3	0	3	0	1	0	1	0	0	0	0	0	0	0	0	4
5:05 PM	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	11
5:10 PM	0	1	0	1	0	3	0	3	0	0	0	0	0	0	0	0	4
5:15 PM	0	11	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5:20 PM	0	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	3
5:25 PM	0	0	0	0	0	11	0	11	2	0	0	2	0	0	11	11	4
5:30 PM	0	11	0	1	0	1	0	11	0	0	0	0	0	0	0	0	2
5:35 PM	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:40 PM	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	1	0	11	0	0	0	0	0	0	0	0	11
5:50 PM	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	0	5
5:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Survey	1	21	1	23	3	32	1	36	9	0	1	10	1	0	1	2	71

Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

Interval			bound	_			bound				ound				oound		
Start		Lancast	er Dr St	=		Lancast	er Dr SE		Ha	igers Gr	ove Rd	SE	Ha	igers Gr	ove Rd	SE	Interval
Time	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	Total
4:00 PM	0	4	0	4	1	8	1	10	3	0	0	3	0	0	0	0	17
4:15 PM	1	2	0	3	0	6	0	6	2	0	1	3	0	0	0	0	12
4:30 PM	0	4	0	4	1	2	0	3	0	0	0	0	1	0	0	11	8
4:45 PM	0	3	0	3	1	4	0	5	1	0	0	1	0	0	0	0	9
5:00 PM	0	4	0	4	0	4	0	4	1	0	0	1	0	0	0	0	9
5:15 PM	0	3	1	4	0	1	0	1	2	0	0	2	0	0	1	1	8
5:30 PM	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	0	6
Total Survey	1	21	1	23	3	32	1	36	9	0	1	10	1	0	1	2	71

Heavy Vehicle Peak Hour Summary 4:15 PM to 5:15 PM

Bv	Northbound	Southbound	Eastbound	Westbound	
1 . ' .	Lancaster Dr SE	Lancaster Dr SE	Hagers Grove Rd SE	Hagers Grove Rd SE	Total
Approach	In Out Total	In Out Total	In Out Total	In Out Total	
Volume	14 18 32	18 17 35	5 1 6	1 2 3	38
PHF	0.58	0.56	0.42	0.25	0.68

Bv		North	bound			South	bound			Eastb	ound			Westh	oound		
1 '		Lancast	er Dr SE			Lancast	er Dr SE		Ha	gers Gr	ove Rd	SE	Ha	gers Gr	ove Rd	SE	Total
Movement	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	
Volume	1	13	0	14	2	16	0	18	4	0	1	5	1	0	0	1	38
PHF	0.25	0.54	0.00	0.58	0.50	0.57	0.00	0.56	0.50	0.00	0.25	0.42	0.25	0.00	0.00	0.25	0.68

Heavy Vehicle Rolling Hour Summary 4:00 PM to 6:00 PM

1.00 1 111																	
Interval		North	bound			South	bound			Eastk	oound			West	bound		
Start		Lancast	er Dr St	Ε		Lancast	er Dr SE	Ē	Ha	igers Gr	ove Rd	SE	Ha	gers Gr	ove Rd	SE	Interval
Time	L	T	R	Total	L	T	R	Total	L	Т	R	Total	L	Т	R	Total	Total
4:00 PM	1	13	0	14	3	20	1	24	6	0	1	7	1	0	0	1	46
4:15 PM	1	13	0	14	2	16	0	18	4	0	1	5	1	0	0	1	38
4:30 PM	0	14	1	15	2	11	0	13	4	0	0	4	1	0	1	2	34
4:45 PM	0	11	1	12	1	10	0	11	4	0	0	4	0	0	1	1	28
5:00 PM	0	8	1	9	0	12	0	12	3	0	0	3	0	0	1	1	25

Peak Hour Summary All Traffic Data Clay Carney (503) 833-2740 Lancaster Dr SE & Hagers Grove Rd SE 4:15 PM to 5:15 PM Wednesday, November 09, 2016 Lancaster Dr SE Bikes 0 789 466 3 384 79 Ľ 4 Peds 0 Hagers Grove Rd SE Bikes 0 55 32 0 56 K 1 8 202 235 84 1 32 4 Bikes 1 Hagers Grove Rd SE Peds 1 7 29 532 Lancaster Dr SE 417 565 Bikes 0 **Approach** PHF HV% Volume EΒ 0.89 2.1% 235 WB 0.74 1.8% 56 565 NB 0.86 2.5% SB 0.88 3.9% 466 Intersection 0.94 2.9% 1,322 Count Period: 4:00 PM to 6:00 PM

Appendix C - Safety

Crash History Data

Preliminary Signal Warrants

Left-turn Lane Warrants



CITY OF SALEM, MARION COUNTY

OREGON.. DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT URBAN NON-SYSTEM CRASH LISTING HAGERS GROVE at CARSON DR. City of Salem, Marion County, 01/01/2016 to 12/31/2020

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1 - 3 of 3 Crash records shown.

NONE NONE	Z Z	01825 N N N NONE	2 2	05242 N N N NONE	SER# P R J INVEST E A U I RD DPT E L G N UNLOC? D C S V
19 SU 0 5E 44 54 40.63 -122 58 44 54 40.63 -122 58	10A 44 54 40.62 -122 58 48.22	06/21/2020 SU	1P 44 54 40.65 -122 58 48.24	11/26/2016 SA	S W DATE C O DAY H R TIME L K LAT
19 0 -122 58 48.24	-122 58 48.22	19	-122 58 48.24	19	CLASS DIST FROM LONG
HAGEKS GROVE		CARSON DR HAGERS GROVE		CARSON DR HAGERS GROVE	CITY STREET FIRST STREET SECOND STREET LRS
O O N LNTER	02	INTER	02	INTER	RD CHAR DIRECT LOCTN
0 3-LEG	0	3-LEG	0	3-LEG	INT-TYPE (MEDIAN) LEGS (#LANES)
XIEID		N		AIETD	E INT-REL TRAF-
z z z	И	z z	A	ии	OFFRD RNDBT DRVWY
UNK	DAY	CLR	DAY	CLR	WIHR
ANGL-OTH TURN PDO	PDO	ANGL-OTH	PDO	ANGL-OTH	CRASH COLL SVRTY
N/A PSNGR CAR OZ NONE 9 N/A PSNGR CAR	PSNGR CAR 02 NONE 9 N/A PSNGR CAR	01 NONE 9	PSNGR CAR 02 NONE 9 N/A PSNGR CAR	01 NONE 9	SPCL USE TRLR QTY OWNER V# TYPE
SE-N SE-N STRGHT	STRGHT S -N	TURN-R SE-N	STRGHT	TURN-R SE-N	MOVE FROM
O1 DRVR NONE OO Unk UNK O1 DRVR NONE OO Unk UNK UNK	01 DRVR NONE OO Unk UNK 01 DRVR NONE OO Unk UNK 01 DRVR NONE OO Unk UNK		O1 DRVR NONE OO Unk UNK O1 DRVR NONE OO Unk UNK UNK		PRIC INJ & S PRIC INJ G E LICNS PED P# TYPE SVRTY E X RES LOC
0 00	000		0 00		OC ERROR
00 00	000 00	000	000 00	000	ACT EVENT
00 0 5	00000	002	0000	00 2	CAUSE

CITY OF SALEM, MARION COUNTY

ORBOON.. DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT URBAN NON-SYSTEM CRASH LISTING HAGERS GROVE at CARSON DR. City of Salem, Marion County, 01/01/2016 to 12/31/2020

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CITY OF SALEM, MARION COUNTY

OREGON. DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT URBAN NON-SYSTEM CRASH LISTING HAGERS GROVE at LANCASTER DR. City of Salem, Marion County, 01/01/2016 to 12/31/2020

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0																		
SER# P R J S W DATE	CLASS	CITY STREET		INT-TYPE					SPCL USE									
INVEST E A U I C O DAY	DIST	FIRST STREET	RD CHAR	(MEDIAN) INT-REL	INT-REL	OFFRD	WIHR	CRASH	TRLR QTY	MOVE			Þ	Š				
RD DPT E L G N H R TIME	FROM	SECOND STREET	DIRECT	LEGS	TRAF-	RNDBT	SURF	COLL	OWNER	FROM	PRTC	INJ	G	E LICNS	PED			
UNLOC? D C S V L K LAT	LONG	LRS	LOCTN	(#LANES) CONTL	CONTL		LIGHT	SVRTY	V# TYPE	TO	P# TYPE	SVRTY	Ħ	X RES	LOC	ERROR	ACT EVENT	CAUSE

CITY OF SALEM, MARION COUNTY

OREGON.. DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
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URBAN NON-SYSTEM CRASH LISTING
HAGERS GROVE at LANCASTER DR. City of Salem, Marion County, 01/01/2016 to 12/31/2020

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Decisioner: The information contained in this report is complied to good began began submitted to the Oregon Department of Transportation as required in ORS \$11.720. The Crash Analysis and Reporting Unit is committed to providing the highest qualify crash data to customers. However, because submitted of reach report from its the responsibility of the information admired in this report is complied from invited and reporting Unit is cannot guarantee that all qualifying crashes are represented not can assurances be made that all details pertaining to a single crash are accurate. Note: Legislative changes or DMV's whole crash reporting unit cannot guarantee that all qualifying crashes are represented not can assurances be made that all details pertaining to a single crash are accurate. Note: Legislative changes to DMV's whole crash reporting requirement, effective 0/10/2004, may result in lever properly admired to the composition of the complete control of the complete control of the complete crash reporting unit cannot guarantee that all qualifying crashes are represented not can assurance be made that all details pertaining to a single crash are accurate. Note: Legislative changes to DMV's whole crash reporting requirement, effective 0/10/2004, may result in lever properly.

CITY OF SALEM, MARION COUNTY

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OREGON.. DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT
URBAN NON-SYSTEM CRASH LISTING
LANCASTER DR at CARSON DR, City of Salem, Marion County, 01/01/2016 to 12/31/2020

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1 - 4 of 5 Crash records shown.

	я	NITT	00689 N N N		z z	NONE	04304 N N N			NN	NO RPT	03916 N N N		z z	NONE	02737 N N N	000	E G	E A U	SER# P R J
	44 54 36.17 -122 58 42.75	i i	/22/2019	42. /4	2P 44 54 36.16 -122 58	SA 0	10/01/2016		7.	12P 44 54 36.16 -122 58	FR 0	09/09/2016	42	8A 44 54 36.17 -122 58	TU 0	09/08/2020	K LAT	R TIME	O DAY	S W DATE CLASS
	5	LANCASTER DR SE	16 CARSON DR SE	d.	58	LANCASTER DR SE	16 CARSON DR SE		T.	, , ,	LANCASTER DR SE	16 CARSON DR SE		58	LANCASTER DR SE	16 CARSON DR SE			•	S CITY STREET
	r C	C Z	INTER		02	CN	INTER			04	CN	INTER		0.6	so	INTER	LOCTN	DIRECT	RD CHAR	
	c	>	CROSS		0		CROSS			0		CROSS		0		CROSS	(#LANES)	LEGS	(MEDIAN)	INT-TYPE
		TRF SIGNAL	z			TRF SIGNAL	Z				TRF SIGNAL	Z			TRF SIGNAL	N	CONTL	TRAF-	INT-REL	
	2	2 2	И		Z	Z	N			N	Z	N		z	Z	N	DRVWY	RNDBT	OFFRD	
	Ę H	WET	RAIN		DAY	DRY	CIR			DAY	DRY	CLR		DAY	DRY	SMOK			WTHR	
	THO	ANGL	ANGL-OTH		PDO	TURN	0-OTHER			INJ	REAR	S-STRGHT		PDO	REAR	S-1STOP	SVRTY	COLL	CRASH	
02 UNKN 0 UNKN PSNGR CAR	01 NONE 0 PRVTE PSNGR CAR	PRVIE	01 NONE 0	02 NONE 9 N/A PSNGR CAR	PSNGR CAR	N/A	01 NONE 9	02 NONE 0 PRVTE PSNGR CAR	01 NONE 0 PRVTE PSNGR CAR	PSNGR CAR	PRVTE	01 NONE 0	02 NONE 9 N/A PSNGR CAR	PSNGR CAR	N/A	01 NONE 9	V# TYPE	OWNER	TRLR QTY	SPCL USE
STRGHT S -N	STRGHT W -E	≅ - ⊠	STRGHT	TURN-L W -N		E -N	TURN-R	STRGHT S =N	STRGHT S -N		S -N	STRGHT	STOP S -N		S -N	STRGHT	TO	FROM	MOVE	
01 DRVR NONE 00 Unk UNK	OR PENG INJC 24 M	22		01 DRVR NONE 00 Unk UNK	01 DRVR NONE 00 Unk UNK UNK			01 DRVR INJC 54 F OR-Y OR<25	02 PSNG NO<5 03 F	01 DRVR INJC 23 F OR-Y OR<25			01 DRVR NONE 00 Unk UNK	01 DRVR NONE 00 Unk UNK UNK			SVRTY E X RES	PRIC INJ G E LICNS PED		
020	0 0			000	000			000	000	042			000	000			ERROR			
000	0000	000		000	000	000		000	000	000	000		000	000	000		ACT EVENT			
00	000	88	04	000	00	00	02	000	00	29	00	29	00	00	00	29	CAUSE			

CITY OF SALEM, MARION COUNTY

ORBOON.. DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT URBAN NON-SYSTEM CRASH LISTING LANCASTER DR at CARSON DR, City of Salem, Marion County, 01/01/2016 to 12/31/2020

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CITY OF SALEM, MARION COUNTY

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ORECON.. DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT
URBAN NON-SYSTEM CRASH LISTING
LANCASTER DR at CARSON DR. City of Salem, Maxion County, 01/01/2016 to 12/31/2020

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5 - 5 of 5 Crash records shown.

	N	N	NO RPT	04082 N N N	UNLOC? D C S	RD DPT E L G	INVEST E A U	SER# P R
	44 54 36.17 -122 58 42.72	11A	TH	10/17/2019	C S V L K LAT	N H R TIME	A U I C O DAY	R J S W DATE
	7 -122 58 42.72		0	16	LONG	FROM	DIST	CLASS
			LANCASTER DR SE	CARSON DR SE	LRS	SECOND STREET	FIRST STREET	CITY STREET
		03	CN CN	INTER	LOCTN	DIRECT	RD CHAR	
		0		CROSS	(#LANES	LEGS	(MEDIAN)	INT-TYPE
			TRF SIGNAL	N	(#LANES) CONTL	TRAF-	(MEDIAN) INT-REL	E
		z	Z	N	DRVWY	RNDBT	OFFRD	
		DAY	DRY	CLR	LIGHT	SURF	WTHR	
		PDO	TURN	ANGL-OTH	SVRTY	COLL	CRASH	
02 NONE 9 N/A PSNGR CAR		PSNGR CAR	N/A	01 NONE 9	V# TYPE	OWNER	TRLR QTY	SPCL USE
STRGHT N -S			W - N	TURN-L	TO	FROM	MOVE	
01 DRVR		01 DRVR			P# TYPE	PRTC		
NONE		NONE			SVRTY	INJ		
00 Unk UNK	UNK	00 Unk UNK			E X RES	G E LICNS	A S	
					Loc	NS PED		
000		000			ERROR			
0 00		0000	000		ACT EVENT			
00		00	00	04	CAUSE			

CITY OF SALEM, MARION COUNTY

ORBOON.. DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT URBAN NON-SYSTEM CRASH LISTING LANCASTER DR at CARSON DR, City of Salem, Marion County, 01/01/2016 to 12/31/2020

Page: 4

Traffic Signal Warrant Analysis

Project: Stop N Save Development

Date: 7/6/2022

Scenario: Year 2024 Buildout

Major Street: Hagers Grove Road SE Minor Street: Northern Site Access

Number of Lanes: 1 Number of Lanes: 1

PM Peak
Hour Volumes:

PM Peak
Hour Volumes:

10

Warrant Used:

X 100 percent of standard warrants used

_____70 percent of standard warrants used due to 85th percentile speed in excess of 40 mph or isolated community with population less than 10,000.

	f Lanes for Moving n Each Approach:		Major St. approaches)		Minor St. ne approach)
WARRANT 1, CO	NDITION A	100%	70%	100%	70%
<u>Major St.</u>	Minor St.	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
WARRANT 1, CO	NDITION B				
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach	Minimum	ls Signal
	Volumes	Volumes	Warrant Met?
Warrant 1			
Condition A: Minimum Vehicular Volume)		
Major Street	440	8,850	
Minor Street*	100	2,650	No
Condition B: Interruption of Continuous	Traffic		
Major Street	440	13,300	
Minor Street*	100	1,350	No
Combination Warrant			
Major Street	440	10,640	
Minor Street*	100	2,120	No

^{*} Minor street right-turning traffic volumes reduced by 25%



Traffic Signal Warrant Analysis

Project: Stop N Save Development

Date: 7/6/2022

Scenario: Year 2024 Buildout

Major Street: Hagers Grove Road SE Minor Street: Western Site Access

Number of Lanes: 1 Number of Lanes: 1

PM Peak Hour Volumes: PM Peak Hour Volumes: 198

Warrant Used:

X 100 percent of standard warrants used

70 percent of standard warrants used due to 85th percentile speed in excess of 40 mph or isolated community with population less than 10,000.

Number o	f Lanes for Moving	ADT on	Major St.	ADT on	Minor St.
Traffic or	n Each Approach:	(total of both	approaches)	(higher-volun	ne approach)
WARRANT 1, CC	NDITION A	100%	70%	100%	70%
<u>Major St.</u>	Minor St.	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
WARRANT 1, CC	NDITION B				
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach	Minimum	ls Signal
	Volumes	Volumes	Warrant Met?
Warrant 1			
Condition A: Minimum Vehicular Volu	ıme		
Major Street	3,370	8,850	
Minor Street*	1,980	2,650	No
Condition B: Interruption of Continuo	us Traffic		
Major Street	3,370	13,300	
Minor Street*	1,980	1,350	No
Combination Warrant			
Major Street	3,370	10,640	
Minor Street*	1,980	2,120	No

^{*} Minor street right-turning traffic volumes reduced by 25%



Traffic Signal Warrant Analysis

Project: Stop N Save Development

Date: 7/6/2022

Scenario: Year 2024 Buildout

Major Street: Hager Grove Road SE Minor Street: Southern Site Access

Number of Lanes: 3 Number of Lanes: 1

PM Peak
Hour Volumes:

PM Peak
Hour Volumes:

1

Warrant Used:

X 100 percent of standard warrants used

70 percent of standard warrants used due to 85th percentile speed in excess of 40 mph or isolated community with population less than 10,000.

Nur	mber of La	nes for Moving	ADT on	Major St.	ADT on N	Minor St.
Tr	affic on Ea	ach Approach:	(total of both	approaches)	(higher-volum	ne approach)
WARRAN]	Γ 1, CONE	DITION A	100%	70%	100%	70%
<u>Maj</u>	or St.	Minor St.	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1		8,850	6,200	2,650	1,850
2 or mo	ore ´	1	10,600	7,400	2,650	1,850
2 or mo	ore 2	2 or more	10,600	7,400	3,550	2,500
1	2	2 or more	8,850	6,200	3,550	2,500
WARRAN]	Γ 1, CONE	DITION B				
1	•	1	13,300	9,300	1,350	950
2 or mo	ore ´	1	15,900	11,100	1,350	950
2 or mo	ore 2	2 or more	15,900	11,100	1,750	1,250
1	2	2 or more	13,300	9,300	1,750	1,250

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach	Minimum	Is Signal
	Volumes	Volumes	Warrant Met?
Warrant 1			
Condition A: Minimum Vehicular Vol	ume		
Major Street	6,210	10,600	
Minor Street*	10	2,650	No
Condition B: Interruption of Continuo	ous Traffic		
Major Street	6,210	15,900	
Minor Street*	10	1,350	No
Combination Warrant			
Major Street	6,210	12,720	
Minor Street*	10	2,120	No

^{*} Minor street right-turning traffic volumes reduced by 85% of the capcaity



Left-Turn Lane Warrant Analysis



Project: Stop N Save Development

Intersection: Hagers Grove Rd SE at Western Site Access

Date: 7/6/2022

Scenario: 2024 buildout conditions PM (SB)

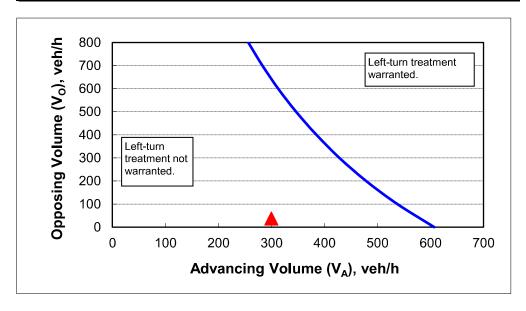
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	25
Percent of left-turns in advancing volume (V _A), %:	13%
Advancing volume (V _A), veh/h:	300
Opposing volume (V _O), veh/h:	37

OUTPUT

Variable	Value
Limiting advancing volume (V _A), veh/h:	580
Guidance for determining the need for a major-road left-turn bay	/ :
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

5, 12, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Left-Turn Lane Warrant Analysis



Project: Stop N Save Development

Intersection: Hagers Grove Rd SE at Western Site Access

Date: 7/6/2022

Scenario: 2024 buildout conditions AM (SB)

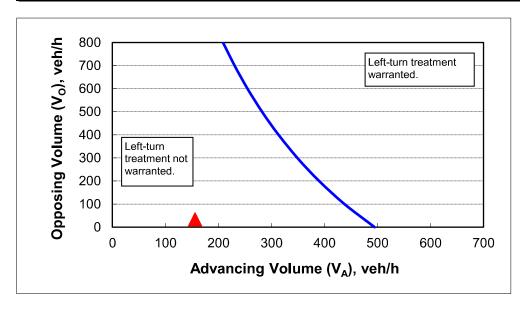
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	25
Percent of left-turns in advancing volume (V _A), %:	22%
Advancing volume (V _A), veh/h:	156
Opposing volume (V _O), veh/h:	34

OUTPUT

Variable	Value
Limiting advancing volume (V _A), veh/h:	474
Guidance for determining the need for a major-road left-turn bay	/ :
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

0, 12,010, 11,1011, 00,1017, 11,110	
Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Appendix D – Operations

Capacity Reports



Intersection						
Intersection Int Delay, s/veh	6.3					
-						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		₽			4
Traffic Vol, veh/h	163	4	32	0	34	110
Future Vol, veh/h	163	4	32	0	34	110
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	_	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	177	4	35	0	37	120
		•		•	•	0
Major/Minor	Minor1		//ajor1		Major2	
Conflicting Flow All	229	35	0	0	35	0
Stage 1	35	-	-	-	-	-
Stage 2	194	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	_	-	_	_	_
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	_	2.218	-
Pot Cap-1 Maneuver	759	1038	_	_	1576	_
Stage 1	987	-	_	_	-	_
Stage 2	839	_	_	_	_	_
Platoon blocked, %	300		_	_		_
Mov Cap-1 Maneuver	740	1038	_	_	1576	_
Mov Cap-1 Maneuver	740	1030		_	1370	_
Stage 1	962	_	_	_	_	_
	839					
Stage 2	039	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	11.4		0		1.7	
HCM LOS	В					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-		1576	-
HCM Lane V/C Ratio		_	-	0.244	0.023	-
HCM Control Delay (s)		-	-	11.4	7.3	0
HCM Lane LOS		-	-	В	Α	Α
HCM 95th %tile Q(veh)	-	-	1	0.1	_
/04/0 4(10/1	,					

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL			WDK	ODL	
Lane Configurations	0	†	†	400	^	
Traffic Vol, veh/h	0	273	32	136	0	0
Future Vol, veh/h	0	273	32	136	0	0
Conflicting Peds, #/hr		0	0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storag	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	297	35	148	0	0
N A = : =/N A: =	M-!4		A-:O		/!O	
Major/Minor	Major1		Major2		/linor2	
Conflicting Flow All	-	0	-	0	-	109
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	0	-	-	-	0	945
Stage 1	0	-	-	-	0	-
Stage 2	0	_	-	-	0	-
Platoon blocked, %		_	_	_		
Mov Cap-1 Maneuver		_	_	_	-	945
Mov Cap-2 Maneuver		_	_	_	_	_
Stage 1	_	_	_	_	_	_
Stage 2	_	_		_	_	_
Olage 2						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minardana/Maiar Ma	4	СОТ	WDT	WDD	וחי בו	
Minor Lane/Major Mvi	mι	EBT	WBT	WBR S		
Capacity (veh/h)		-	-	-	-	
HCM Lane V/C Ratio		-	_	-	-	
HCM Control Delay (s	s)	-	-	-	0	
HCM Lane LOS		-	-	-	Α	
HCM 95th %tile Q(vel	h)	-	-	-	-	

	۶	→	*	•	-	*	1	†	/	/	+	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	₽			4		7	Դ		7	Դ	
Traffic Volume (veh/h)	189	5	79	3	4	70	89	307	2	23	379	75
Future Volume (veh/h)	189	5	79	3	4	70	89	307	2	23	379	75
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1589	1589	1589	1772	1772	1772	1660	1660	1660	1730	1730	1730
Adj Flow Rate, veh/h	233	6	98	4	5	86	110	379	2	28	468	93
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Percent Heavy Veh, %	15	15	15	2	2	2	10	10	10	5	5	5
Cap, veh/h	450	18	301	92	29	323	133	726	4	33	526	105
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.08	0.44	0.44	0.02	0.38	0.38
Sat Flow, veh/h	1106	78	1275	20	123	1367	1581	1649	9	1647	1401	278
Grp Volume(v), veh/h	233	0	104	95	0	0	110	0	381	28	0	561
Grp Sat Flow(s),veh/h/ln	1106	0	1353	1510	0	0	1581	0	1658	1647	0	1680
Q Serve(g_s), s	5.5	0.0	2.7	0.0	0.0	0.0	2.9	0.0	7.1	0.7	0.0	13.4
Cycle Q Clear(g_c), s	7.7	0.0	2.7	2.2	0.0	0.0	2.9	0.0	7.1	0.7	0.0	13.4
Prop In Lane	1.00	0	0.94	0.04	0	0.91	1.00	^	0.01	1.00	0	0.17
Lane Grp Cap(c), veh/h	450	0	320	444	0	0	133	0	730	33	0	631
V/C Ratio(X)	0.52 835	0.00	0.33 791	0.21 964	0.00	0.00	0.83 369	0.00	0.52 1395	0.86 231	0.00	0.89
Avail Cap(c_a), veh/h HCM Platoon Ratio	1.00	0 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0 1.00	1256 1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.2	0.00	13.5	13.3	0.00	0.00	19.3	0.00	8.7	20.9	0.00	12.5
Incr Delay (d2), s/veh	0.3	0.0	0.2	0.1	0.0	0.0	4.8	0.0	0.2	20.9	0.0	1.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	0.0	0.7	0.7	0.0	0.0	1.1	0.0	1.7	0.4	0.0	3.8
Unsig. Movement Delay, s/veh		0.0	0.7	0.1	0.0	0.0	1.1	0.0	1.7	0.4	0.0	5.0
LnGrp Delay(d),s/veh	15.5	0.0	13.7	13.4	0.0	0.0	24.1	0.0	8.9	40.9	0.0	14.3
LnGrp LOS	В	A	В	В	A	A	C	Α	A	70.0 D	Α	В
Approach Vol, veh/h		337			95	<u>, , , </u>		491	, <u>, , </u>		589	
Approach Delay, s/veh		15.0			13.4			12.3			15.6	
Approach LOS		В			В			В			В	
	4			4		^						
Timer - Assigned Phs	7.0	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.6	21.1		14.1	4.8	23.8		14.1				
Change Period (Y+Rc), s	4.0	5.0		4.0	4.0	5.0		4.0				
Max Green Setting (Gmax), s Max Q Clear Time (g_c+l1), s	10.0 4.9	32.0 15.4		25.0 4.2	6.0 2.7	36.0 9.1		25.0 9.7				
					0.0	0.4						
Green Ext Time (p_c), s	0.0	0.7		0.1	0.0	0.4		0.3				
Intersection Summary												
HCM 6th Ctrl Delay			14.2									
HCM 6th LOS			В									

Intersection						
Int Delay, s/veh	4.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
	WDL	WOR		NDI	JDL_	
Lane Configurations		2	7	۸	20	4
Traffic Vol, veh/h	135	3	33	0	39	240
Future Vol, veh/h	135	3	33	0	39	240
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag	e,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	147	3	36	0	42	261
N	NA: 4		1-!4		N4-:O	
	Minor1		Major1		Major2	
Conflicting Flow All	381	36	0	0	36	0
Stage 1	36	-	-	-	-	-
Stage 2	345	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	_	-	_
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	621	1037	-	-	1575	_
Stage 1	986	-	-	_	-	_
Stage 2	717	_	_	_	_	_
Platoon blocked, %			_	_		_
Mov Cap-1 Maneuver	602	1037	_	_	1575	_
Mov Cap 1 Maneuver		-	_	_	-	_
Stage 1	955	_	_		_	_
Stage 2	717	_	=	_	_	_
Staye 2	7 1 7	_	_	-	_	
Approach	WB		NB		SB	
HCM Control Delay, s	12.8		0		1	
HCM LOS	В					
Minor Lane/Major Mvr	nt	NBT	NRKA	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	000	1575	-
HCM Lane V/C Ratio				0.247		-
HCM Control Delay (s	.)	-	-	12.8	7.3	0
HCM Lane LOS		-	-	В	Α	Α
HCM 95th %tile Q(veh	1)	_	_	1	0.1	_

Intersection						
Int Delay, s/veh	0					
	EBL	EBT	WBT	WBR	SBL	SBR
	CDL_			WDK_	ODL	ODK 7
Lane Configurations	^	^	∱	0.4	^	
Traffic Vol, veh/h	0	375	33	94	0	1
Future Vol, veh/h	0	375	33	94	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	408	36	102	0	1
Main/Min.n.	-!4		4-! 0		/!O	
	ajor1		/lajor2		/linor2	^=
Conflicting Flow All	-	0	-	0	-	87
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	0	-	-	-	0	971
Stage 1	0	-	-	-	0	_
Stage 2	0	-	_	-	0	-
Platoon blocked, %		_	_	_		
Mov Cap-1 Maneuver	_	_	-	_	-	971
Mov Cap-2 Maneuver	_	_	_	_	_	_
Stage 1	_	_	_	_	_	_
Stage 2	_	_	_	_	_	_
Olage 2						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		8.7	
HCM LOS					Α	
Minor Long/Maria AA		EDT	MOT	WDD C	DI 4	
Minor Lane/Major Mvmt		EBT	WBT	WBR S		
Capacity (veh/h)		-	-	-	971	
HCM Lane V/C Ratio		-	-	-	0.001	
HCM Control Delay (s)		-	-	-	8.7	
HCM Lane LOS		-	-	-	Α	
HCM 95th %tile Q(veh)		-	-	-	0	

	J	→	*	•	—	•	•	†	<i>></i>	/	ţ	√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	75	₽			4		7	Դ	_	75	₽	
Traffic Volume (veh/h)	293	4	78	1	3	62	71	574	5	89	405	53
Future Volume (veh/h)	293	4	78	1	3	62	71	574	5	89	405	53
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1772	1772	1772	1772	1772	1772	1758	1758	1758	1744	1744	1744
Adj Flow Rate, veh/h	312	4	83	1	3	66	76	611	5	95	431	56
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	4	4	4
Cap, veh/h	515	19	393	81	22	388	367	678	6	292	605	79
Arrive On Green	0.27	0.27	0.27	0.27	0.27	0.27	0.04	0.39	0.39	0.05	0.40	0.40
Sat Flow, veh/h	1258	69	1438	5	82	1422	1674	1741	14	1661	1512	196
Grp Volume(v), veh/h	312	0	87	70	0	0	76	0	616	95	0	487
Grp Sat Flow(s),veh/h/ln	1258	0	1507	1508	0	0	1674	0	1755	1661	0	1708
Q Serve(g_s), s	8.7	0.0	2.0	0.0	0.0	0.0	1.2	0.0	15.2	1.6	0.0	11.0
Cycle Q Clear(g_c), s	10.3	0.0	2.0	1.6	0.0	0.0	1.2	0.0	15.2	1.6	0.0	11.0
Prop In Lane	1.00		0.95	0.01		0.94	1.00		0.01	1.00		0.11
Lane Grp Cap(c), veh/h	515	0	412	491	0	0	367	0	684	292	0	683
V/C Ratio(X)	0.61	0.00	0.21	0.14	0.00	0.00	0.21	0.00	0.90	0.33	0.00	0.71
Avail Cap(c_a), veh/h	856	0	820	898	0	0	505	0	1391	404	0	1346
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.7	0.0	12.9	12.7	0.0	0.0	9.0	0.0	13.2	10.4	0.0	11.6
Incr Delay (d2), s/veh	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	1.8	0.2	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.0	0.6	0.5	0.0	0.0	0.3	0.0	4.6	0.4	0.0	3.0
Unsig. Movement Delay, s/veh		0.0	40.0	40.0	0.0	0.0	0.4	0.0	45.0	40.0	0.0	40.4
LnGrp Delay(d),s/veh	16.1	0.0	13.0	12.8	0.0	0.0	9.1	0.0	15.0	10.6	0.0	12.1
LnGrp LOS	В	A	В	В	A	A	A	A	В	В	A	В
Approach Vol, veh/h		399			70			692			582	
Approach Delay, s/veh		15.4			12.8			14.4			11.9	
Approach LOS		В			В			В			В	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.0	23.4		16.6	6.5	22.9		16.6				
Change Period (Y+Rc), s	4.0	5.0		4.0	4.0	5.0		4.0				
Max Green Setting (Gmax), s	5.8	36.2		25.0	5.6	36.4		25.0				
Max Q Clear Time (g_c+l1), s	3.2	13.0		3.6	3.6	17.2		12.3				
Green Ext Time (p_c), s	0.0	0.6		0.1	0.0	0.7		0.2				
Intersection Summary												
HCM 6th Ctrl Delay			13.7									
HCM 6th LOS			В									

Intersection						
Int Delay, s/veh	6.2					
		14/55	NET	NES	051	057
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		₽			4
Traffic Vol, veh/h	163	4	33	0	34	115
Future Vol, veh/h	163	4	33	0	34	115
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	177	4	36	0	37	125
NA ' (NA'	NA' -				4 ' 0	
	Minor1		//ajor1		Major2	
Conflicting Flow All	235	36	0	0	36	0
Stage 1	36	-	-	-	-	-
Stage 2	199	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	753	1037	-	-	1575	-
Stage 1	986	-	-	-	-	-
Stage 2	835	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	734	1037	_	_	1575	-
Mov Cap-2 Maneuver	734	-	_	_	-	_
Stage 1	961	_	_	_	_	_
Stage 2	835	_	_		_	
Olage 2	000		_			
Approach	WB		NB		SB	
HCM Control Delay, s	11.5		0		1.7	
HCM LOS	В					
Minor Long /Mais n. M.		NDT	NDDV	MDL 4	CDI	CDT
Minor Lane/Major Mvn	nt	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-	-		1575	-
HCM Lane V/C Ratio		-		0.246		-
HCM Control Delay (s		-	-		7.3	0
HCM Lane LOS		-	-	В	Α	Α
HCM 95th %tile Q(veh	. \	_	_	1	0.1	_

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		†	þ			7
Traffic Vol, veh/h	0	278	33	136	0	0
Future Vol, veh/h	0	278	33	136	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	_	None	-	None
Storage Length	-	_	-	-	-	0
Veh in Median Storage,	# -	0	0	_	0	_
Grade, %	_	0	0	_	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	302	36	148	0	0
IVIVIIIL I IOW	U	302	30	170	U	U
Major/Minor M	lajor1	N	Major2	N	/linor2	
Conflicting Flow All	-	0	-	0	-	110
Stage 1	-	_	_	-	-	_
Stage 2	-	_	_	-	-	_
Critical Hdwy	-	_	_	_	-	6.22
Critical Hdwy Stg 1	_	_	_	_	_	-
Critical Hdwy Stg 2	_	_	_	_	_	_
Follow-up Hdwy	_	_	_	_	_	3.318
Pot Cap-1 Maneuver	0	_	_	_	0	943
Stage 1	0	_		_	0	J+J
Stage 2	0	_	_	-	0	
Platoon blocked, %	U	_	_	-	U	_
		-	-	-		042
Mov Cap-1 Maneuver	-	-	-	-	-	943
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	U		U		A	
HOW LOS					А	
Minor Lane/Major Mvmt		EBT	WBT	WBR S	SBLn1	
Capacity (veh/h)		-	_	-	_	
HCM Lane V/C Ratio		-	_	_	_	
HCM Control Delay (s)		_	_	_	0	
HCM Lane LOS		-	_	_	A	
HCM 95th %tile Q(veh)		_	_	_	_	
HOW BOWN WINE Q(VEN)		_			-	

	۶	—	•	•	-	•	•	†	/	/	+	√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	₽			4		7	-£		75	₽	
Traffic Volume (veh/h)	193	5	80	4	4	73	90	321	2	23	396	75
Future Volume (veh/h)	193	5	80	4	4	73	90	321	2	23	396	75
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1589	1589	1589	1772	1772	1772	1660	1660	1660	1730	1730	1730
Adj Flow Rate, veh/h	238	6	99	5	5	90	111	396	2	28	489	93
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Percent Heavy Veh, %	15	15	15	2	2	2	10	10	10	5	5	5
Cap, veh/h	445	18	304	90	30	324	135	744	4	32	545	104
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.09	0.45	0.45	0.02	0.39	0.39
Sat Flow, veh/h	1102	77	1276	24	127	1359	1581	1650	8	1647	1413	269
Grp Volume(v), veh/h	238	0	105	100	0	0	111	0	398	28	0	582
Grp Sat Flow(s),veh/h/ln	1102	0	1353	1510	0	0	1581	0	1658	1647	0	1681
Q Serve(g_s), s	5.9	0.0	2.9	0.0	0.0	0.0	3.1	0.0	7.8	8.0	0.0	14.5
Cycle Q Clear(g_c), s	8.3	0.0	2.9	2.4	0.0	0.0	3.1	0.0	7.8	0.8	0.0	14.5
Prop In Lane	1.00		0.94	0.05		0.90	1.00		0.01	1.00		0.16
Lane Grp Cap(c), veh/h	445	0	323	444	0	0	135	0	748	32	0	648
V/C Ratio(X)	0.53	0.00	0.33	0.23	0.00	0.00	0.82	0.00	0.53	0.86	0.00	0.90
Avail Cap(c_a), veh/h	799	0	757	922	0	0	353	0	1335	221	0	1203
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.8	0.0	14.1	13.9	0.0	0.0	20.1	0.0	8.9	21.9	0.0	12.9
Incr Delay (d2), s/veh	0.4	0.0	0.2	0.1	0.0	0.0	4.7	0.0	0.2	20.8	0.0	1.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	0.8	0.7	0.0	0.0	1.1	0.0	1.9	0.4	0.0	4.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.2	0.0	14.3	14.0	0.0	0.0	24.8	0.0	9.1	42.7	0.0	14.8
LnGrp LOS	В	Α	В	В	Α	Α	С	Α	A	D	Α	<u>B</u>
Approach Vol, veh/h		343			100			509			610	
Approach Delay, s/veh		15.6			14.0			12.5			16.1	
Approach LOS		В			В			В			В	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.8	22.2		14.7	4.9	25.2		14.7				
Change Period (Y+Rc), s	4.0	5.0		4.0	4.0	5.0		4.0				
Max Green Setting (Gmax), s	10.0	32.0		25.0	6.0	36.0		25.0				
Max Q Clear Time (g_c+l1), s	5.1	16.5		4.4	2.8	9.8		10.3				
Green Ext Time (p_c), s	0.0	0.7		0.2	0.0	0.4		0.3				
Intersection Summary												
HCM 6th Ctrl Delay			14.7									
HCM 6th LOS			В									

latana a ati a m						
Intersection	4.5					
Int Delay, s/veh	4.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		^	-		₽
Traffic Vol, veh/h	135	3	35	0	39	251
Future Vol, veh/h	135	3	35	0	39	251
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	-	None	_	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e,# 0	_	0	-	_	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	147	3	38	0	42	273
		•				
				-		
	Minor1		//ajor1		Major2	
Conflicting Flow All	395	38	0	0	38	0
Stage 1	38	-	-	-	-	-
Stage 2	357	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	_	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	610	1034	-	-	1572	-
Stage 1	984	-	-	-	-	-
Stage 2	708	-	-	_	_	-
Platoon blocked, %			-	-		_
Mov Cap-1 Maneuver	591	1034	-	_	1572	-
Mov Cap-2 Maneuver	591	-	_	_	-	_
Stage 1	953	_	_	_	-	_
Stage 2	708	_	-	_	_	_
Olago Z	, 00					
Approach	WB		NB		SB	
HCM Control Delay, s	13		0		1	
HCM LOS	В					
Minor Lane/Major Mvr	nt	NBT	NRPV	VBLn1	SBL	SBT
Capacity (veh/h)	ш	ND1 -	NDICV	597	1572	<u> </u>
HCM Lane V/C Ratio				0.251		
	\	-				_
HCM Control Delay (s)	-	-	13	7.4	0
HCM Lane LOS		-	-	В	Α	Α
HCM 95th %tile Q(veh	1)	-	-	1	0.1	-

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations			Þ			7
Traffic Vol, veh/h	0	386	35	94	0	1
Future Vol, veh/h	0	386	35	94	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	_	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	420	38	102	0	1
WWW.CT IOW	U	120	00	102		•
	lajor1		Major2		/linor2	
Conflicting Flow All	-	0	-	0	-	89
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	_	-	-	-	6.22
Critical Hdwy Stg 1	-	_	_	_	_	_
Critical Hdwy Stg 2	_	_	_	_	_	_
Follow-up Hdwy	-	-	_	_	_	3.318
Pot Cap-1 Maneuver	0	_	_	_	0	969
Stage 1	0	_	_	_	0	-
Stage 2	0	_	_	_	0	_
Platoon blocked, %	U	_			U	_
		-	-	-		969
Mov Cap-1 Maneuver	-	-	-	-	-	
Mov Cap-2 Maneuver	-	_	-	-	-	_
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		8.7	
HCM LOS	U		J		A	
TIOM EOU					, ·	
Minor Lane/Major Mvmt		EBT	WBT	WBR S	SBLn1	
Capacity (veh/h)		-	-	-	969	
HCM Lane V/C Ratio		-	-	-	0.001	
HCM Control Delay (s)		-	_	_	8.7	
HCM Lane LOS		-	-	-	Α	
HCM 95th %tile Q(veh)		_	_	_	0	
5541 70416 (4011)					_	

	人	→	•	•	-	•	•	†	/	/		 ✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	76	₽			4		7	1>		75	₽	
Traffic Volume (veh/h)	303	4	79	1	3	64	72	598	5	93	423	54
Future Volume (veh/h)	303	4	79	1	3	64	72	598	5	93	423	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1772	1772	1772	1772	1772	1772	1758	1758	1758	1744	1744	1744
Adj Flow Rate, veh/h	322	4	84	1	3	68	77	636	5	99	450	57
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	4	4	4
Cap, veh/h	512	19	400	76	22	396	359	698	5	281	626	79
Arrive On Green	0.28	0.28	0.28	0.28	0.28	0.28	0.04	0.40	0.40	0.06	0.41	0.41
Sat Flow, veh/h	1256	68	1438	4	80	1424	1674	1742	14	1661	1517	192
Grp Volume(v), veh/h	322	0	88	72	0	0	77	0	641	99	0	507
Grp Sat Flow(s),veh/h/ln	1256	0	1507	1508	0	0	1674	0	1755	1661	0	1709
Q Serve(g_s), s	9.6	0.0	2.2	0.0	0.0	0.0	1.3	0.0	16.9	1.7	0.0	12.2
Cycle Q Clear(g_c), s	11.4	0.0	2.2	1.8	0.0	0.0	1.3	0.0	16.9	1.7	0.0	12.2
Prop In Lane	1.00		0.95	0.01		0.94	1.00		0.01	1.00		0.11
Lane Grp Cap(c), veh/h	512	0	420	494	0	0	359	0	704	281	0	705
V/C Ratio(X)	0.63	0.00	0.21	0.15	0.00	0.00	0.21	0.00	0.91	0.35	0.00	0.72
Avail Cap(c_a), veh/h	802	0	768	841	0	0	476	0	1303	378	0	1268
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.7	0.0	13.6	13.4	0.0	0.0	9.4	0.0	13.9	11.1	0.0	12.0
Incr Delay (d2), s/veh	0.5	0.0	0.1	0.0	0.0	0.0	0.1	0.0	2.0	0.3	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	0.0	0.7	0.5	0.0	0.0	0.3	0.0	5.3	0.4	0.0	3.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	17.1	0.0	13.7	13.5	0.0	0.0	9.5	0.0	15.9	11.3	0.0	12.5
LnGrp LOS	В	A	В	В	A	A	A	A	В	В	A	<u>B</u>
Approach Vol, veh/h		410			72			718			606	
Approach Delay, s/veh		16.4			13.5			15.2			12.4	
Approach LOS		В			В			В			В	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.2	25.2		17.7	6.7	24.7		17.7				
Change Period (Y+Rc), s	4.0	5.0		4.0	4.0	5.0		4.0				
Max Green Setting (Gmax), s	5.6	36.4		25.0	5.6	36.4		25.0				
Max Q Clear Time (g_c+l1), s	3.3	14.2		3.8	3.7	18.9		13.4				
Green Ext Time (p_c), s	0.0	0.6		0.1	0.0	8.0		0.2				
Intersection Summary												
HCM 6th Ctrl Delay			14.4									
HCM 6th LOS			В									

Intersection						
Int Delay, s/veh	1.6					
	EBT	EDD	\\/DI	WBT	NBL	NBR
	CDI	EBR	WBL			NDK
Lane Configurations	^	0	22	4	"	0
Traffic Vol, veh/h	0	0	33	0	7	0
Future Vol, veh/h	0	0	33	0	7	0
Conflicting Peds, #/hr	_ 0	_ 0	_ 0	_ 0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, 7	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	36	0	8	0
		_		_		
Major/Minor		N	//ajor2		Minor1	
Conflicting Flow All			0	0	72	-
Stage 1			-	-	0	-
Stage 2			-	-	72	-
Critical Hdwy			4.12	_	6.42	-
Critical Hdwy Stg 1			-	_	_	-
Critical Hdwy Stg 2			_	_	5.42	_
Follow-up Hdwy			2.218	_	3.518	_
Pot Cap-1 Maneuver				_	932	0
Stage 1			_	_	-	0
			-		951	0
Stage 2			-		901	U
Platoon blocked, %				-	000	
Mov Cap-1 Maneuver			-	-	932	-
Mov Cap-2 Maneuver			-	-	932	-
Stage 1			-	-	-	-
Stage 2			-	-	951	-
Approach			WB		NB	
			VVD			
HCM Control Delay, s					8.9	
HCM LOS					Α	
Minor Lane/Major Mvmt	1	NBLn1	WBL	WBT		
Capacity (veh/h)		932	-	-		
HCM Lane V/C Ratio		0.008				
HCM Control Delay (s)		8.9	-	-		
			-	-		
HCM Lane LOS		A	-	-		
HCM 95th %tile Q(veh)		0	-	-		

Intersection						
Int Delay, s/veh	7.2					
		WED	NDT	NDD	ODL	CDT
Movement	WBL	WBR_	NBT	NBR	SBL	SBT
Lane Configurations	74		∱	4	0.4	4
Traffic Vol, veh/h	216	4	33	1	34	122
Future Vol, veh/h	216	4	33	1	34	122
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	235	4	36	1	37	133
N.A. '. /N.A'						
	Minor1		//ajor1		Major2	
Conflicting Flow All	244	37	0	0	37	0
Stage 1	37	-	-	-	-	-
Stage 2	207	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	_	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	_	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	744	1035	-	-	1574	-
Stage 1	985	-	-	_	-	-
Stage 2	828	_	_	_	_	_
Platoon blocked, %	323		_	_		_
Mov Cap-1 Maneuver	725	1035	_	_	1574	_
Mov Cap-1 Maneuver	725	1033			13/4	_
Stage 1	960	_	_	_	_	_
_	828	-			-	-
Stage 2	020	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	12.3		0		1.6	
HCM LOS	В					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	729	1574	-
HCM Lane V/C Ratio		-	-	0.328	0.023	-
HCM Control Delay (s))	-	-	12.3	7.3	0
HCM Lane LOS		-	-	В	Α	Α
HCM 95th %tile Q(veh)	_	-		0.1	_

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL			WDK	ODL	ODK 7
Lane Configurations	^	†	†	400	^	
Traffic Vol, veh/h	0	338	34	163	0	1
Future Vol, veh/h	0	338	34	163	0	1
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storag	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	367	37	177	0	1
N A = : =/N A: =	M-!4		A-:O		/!O	
Major/Minor	Major1		Major2		/linor2	400
Conflicting Flow All	-	0	-	0	-	126
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	0	-	-	-	0	924
Stage 1	0	-	-	-	0	_
Stage 2	0	_	-	-	0	-
Platoon blocked, %		_	_	_		
Mov Cap-1 Maneuver		_	_	_	-	924
Mov Cap-2 Maneuver		_	_	_	_	_
Stage 1	_	_	_	_	_	_
Stage 2	_	_	_	_	_	_
Olage 2						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		8.9	
HCM LOS					Α	
N.C., /N.Ai N.A	4	EDT	WOT	WDD	NDL 4	
Minor Lane/Major Mvi	mι	EBT	WBT	WBR S		
Capacity (veh/h)		-	-	-	924	
HCM Lane V/C Ratio		-	-		0.001	
HCM Control Delay (s	s)	-	-	-	8.9	
HCM Lane LOS		-	-	-	Α	
HCM 95th %tile Q(vel	h)	-	-	-	0	

	丿	→	•	€	-	•	1	†	/	/	+	√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	75	₽			4		7	1>		75	₽	
Traffic Volume (veh/h)	231	6	101	4	5	73	117	301	2	23	381	75
Future Volume (veh/h)	231	6	101	4	5	73	117	301	2	23	381	75
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1589	1589	1589	1772	1772	1772	1660	1660	1660	1730	1730	1730
Adj Flow Rate, veh/h	285	7	125	5	6	90	144	372	2	28	470	93
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Percent Heavy Veh, %	15	15	15	2	2	2	10	10	10	5	5	5
Cap, veh/h	476	20	354	85	40	373	319	713	4	432	520	103
Arrive On Green	0.28	0.28	0.28	0.28	0.28	0.28	0.08	0.43	0.43	0.02	0.37	0.37
Sat Flow, veh/h	1101	72	1281	22	143	1348	1581	1649	9	1647	1402	277
Grp Volume(v), veh/h	285	0	132	101	0	0	144	0	374	28	0	563
Grp Sat Flow(s),veh/h/ln	1101	0	1353	1513	0	0	1581	0	1658	1647	0	1680
Q Serve(g_s), s	8.4	0.0	3.7	0.0	0.0	0.0	2.5	0.0	7.9	0.5	0.0	15.2
Cycle Q Clear(g_c), s	10.9	0.0	3.7	2.5	0.0	0.0	2.5	0.0	7.9	0.5	0.0	15.2
Prop In Lane	1.00		0.95	0.05		0.89	1.00		0.01	1.00		0.17
Lane Grp Cap(c), veh/h	476	0	374	497	0	0	319	0	717	432	0	623
V/C Ratio(X)	0.60	0.00	0.35	0.20	0.00	0.00	0.45	0.00	0.52	0.06	0.00	0.90
Avail Cap(c_a), veh/h	631	0	565	708	0	0	379	0	918	589	0	923
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.2	0.0	13.9	13.4	0.0	0.0	10.6	0.0	10.0	9.3	0.0	14.2
Incr Delay (d2), s/veh	0.5	0.0	0.2	0.1	0.0	0.0	0.4	0.0	0.2	0.0	0.0	6.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.0	1.0	8.0	0.0	0.0	0.6	0.0	2.1	0.1	0.0	5.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.6	0.0	14.1	13.5	0.0	0.0	11.0	0.0	10.2	9.3	0.0	20.8
LnGrp LOS	В	A	В	В	Α	Α	В	Α	В	A	A	<u>C</u>
Approach Vol, veh/h		417			101			518			591	
Approach Delay, s/veh		15.8			13.5			10.4			20.3	
Approach LOS		В			В			В			С	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.9	22.8		17.2	4.9	25.7		17.2				
Change Period (Y+Rc), s	4.0	5.0		4.0	4.0	5.0		4.0				
Max Green Setting (Gmax), s	5.7	26.3		20.0	5.5	26.5		20.0				
Max Q Clear Time (g_c+l1), s	4.5	17.2		4.5	2.5	9.9		12.9				
Green Ext Time (p_c), s	0.0	0.6		0.1	0.0	0.4		0.3				
Intersection Summary												
HCM 6th Ctrl Delay			15.6									
HCM 6th LOS			В									

Intersection						
	1.7					
	BT	EBR	WBL	WBT	NBL	NBR
Lane Configurations				₽	ሻ	
Traffic Vol, veh/h	0	0	44	0	10	0
Future Vol, veh/h	0	0	44	0	10	0
Conflicting Peds, #/hr	0	0	0	0	0	0
	ree	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	_	-	0	0	_
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	48	0	11	0
Major/Minor		N	Major2		Minor1	
Conflicting Flow All			0	0	96	-
Stage 1			-	-	0	_
Stage 2			-	-	96	-
Critical Hdwy			4.12	-	6.42	-
Critical Hdwy Stg 1			-	-	-	-
Critical Hdwy Stg 2			-	-	5.42	-
Follow-up Hdwy			2.218	-	3.518	-
Pot Cap-1 Maneuver			_	-	903	0
Stage 1			_	_	_	0
Stage 2			_	-	928	0
Platoon blocked, %				_	320	
Mov Cap-1 Maneuver			_	_	903	_
Mov Cap-1 Maneuver			_	_	903	-
Stage 1			_	_	903	_
•				_	928	
Stage 2			-	-	920	-
Approach			WB		NB	
HCM Control Delay, s					9	
HCM LOS					A	
= 3 -						
NA:		IDI 4	\A/D!	MOT		
Minor Lane/Major Mvmt		IBLn1	WBL	WBT		
Capacity (veh/h)		903	-	-		
HCM Lane V/C Ratio		0.012	-	-		
HCM Control Delay (s)		9	-	-		
HCM Lane LOS		Α	-	-		
HCM 95th %tile Q(veh)		0	-	-		

Intersection						
Int Delay, s/veh	6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		₽	_		4
Traffic Vol, veh/h	196	3	35	2	39	261
Future Vol, veh/h	196	3	35	2	39	261
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	_	None
Storage Length	0	_	_	-		-
Veh in Median Storage		_	0	_	_	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
	2	2	2		2	2
Heavy Vehicles, %				2		
Mvmt Flow	213	3	38	2	42	284
Major/Minor	Minor1	N	/lajor1		Major2	
Conflicting Flow All	407	39	0	0	40	0
Stage 1	39		-	-	-	_
	368					
Stage 2	6.42	6.22	-	-	4 4 2	-
Critical Hdwy			-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	_	-	_
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518		-	-	2.218	-
Pot Cap-1 Maneuver	600	1033	-	-	1570	-
Stage 1	983	-	-	-	-	-
Stage 2	700	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	581	1033	-	_	1570	-
Mov Cap-2 Maneuver	581	-	-	-	-	-
Stage 1	952	_	_	_	_	-
Stage 2	700	_	_	_	_	_
Jugo 2	, 00					
Approach	WB		NB		SB	
HCM Control Delay, s	14.7		0		1	
HCM LOS	В					
NA: 1 /24: 24		NET	NES	VDL 4	051	057
Minor Lane/Major Mvn	<u>nt</u>	NBT	NRKA	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	585	1570	-
HCM Lane V/C Ratio		-	-		0.027	-
HCM Control Delay (s))	-	-	14.7	7.4	0
HCM Lane LOS		-	-	В	Α	Α
HCM 95th %tile Q(veh)	-	_	1.7	0.1	-

Interception						
Intersection	^					
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		1	ħ	-	_	7
Traffic Vol, veh/h	0	457	37	127	0	1
Future Vol, veh/h	0	457	37	127	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	_	-	0
Veh in Median Storage,	# -	0	0	_	0	_
Grade, %	_	0	0	_	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	497	40	138	0	1
IVIVIIIL I IOVV	U	751	70	100	U	
Major/Minor Major/Minor	ajor1	N	//ajor2	N	/linor2	
Conflicting Flow All	-	0	-	0	-	109
Stage 1	_	-	-	-	-	-
Stage 2	_	_	_	-	_	-
Critical Hdwy	_	_	_	_	_	6.22
Critical Hdwy Stg 1	-	_	_	_	_	_
Critical Hdwy Stg 2	_	_	_	_	_	_
Follow-up Hdwy	-	_	_	_	_	3.318
Pot Cap-1 Maneuver	0	_	_	_	0	945
Stage 1	0	_	_	_	0	J+U
Stage 2	0		_	_	0	_
Platoon blocked, %	U		_		U	_
		-	-	-		045
Mov Cap-1 Maneuver	-	-	-	-	-	945
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		8.8	
HCM LOS	U		U		0.0 A	
HOW LOS					А	
Minor Lane/Major Mvmt		EBT	WBT	WBR S	SBLn1	
Capacity (veh/h)		-	_	_	945	
HCM Lane V/C Ratio		_	_	_	0.001	
HCM Control Delay (s)		_	_	_	8.8	
HCM Lane LOS		_	_	_	Α	
HCM 95th %tile Q(veh)		_	_	_	0	
					U	

	≯	→	•	✓	-	•	•	†	/	/		 ✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	75	- 1			4		7	1>		75	₽	
Traffic Volume (veh/h)	348	6	103	1	5	64	105	575	5	93	407	54
Future Volume (veh/h)	348	6	103	1	5	64	105	575	5	93	407	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1772	1772	1772	1772	1772	1772	1758	1758	1758	1744	1744	1744
Adj Flow Rate, veh/h	370	6	110	1	5	68	112	612	5	99	433	57
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	4	4	4
Cap, veh/h	544	24	448	70	37	436	351	670	5	268	571	75
Arrive On Green	0.31	0.31	0.31	0.31	0.31	0.31	0.06	0.38	0.38	0.06	0.38	0.38
Sat Flow, veh/h	1254	78	1431	4	119	1392	1674	1741	14	1661	1509	199
Grp Volume(v), veh/h	370	0	116	74	0	0	112	0	617	99	0	490
Grp Sat Flow(s),veh/h/ln	1254	0	1509	1514	0	0	1674	0	1755	1661	0	1708
Q Serve(g_s), s	12.4	0.0	3.0	0.0	0.0	0.0	2.1	0.0	17.6	1.9	0.0	13.2
Cycle Q Clear(g_c), s	14.3	0.0	3.0	1.9	0.0	0.0	2.1	0.0	17.6	1.9	0.0	13.2
Prop In Lane	1.00		0.95	0.01		0.92	1.00		0.01	1.00		0.12
Lane Grp Cap(c), veh/h	544	0	472	543	0	0	351	0	675	268	0	646
V/C Ratio(X)	0.68	0.00	0.25	0.14	0.00	0.00	0.32	0.00	0.91	0.37	0.00	0.76
Avail Cap(c_a), veh/h	815	0	799	870	0	0	423	0	1109	350	0	1079
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	17.1	0.0	13.5	13.1	0.0	0.0	10.8	0.0	15.4	12.2	0.0	14.3
Incr Delay (d2), s/veh	0.6	0.0	0.1	0.0	0.0	0.0	0.2	0.0	4.6	0.3	0.0	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	0.0	0.9	0.6	0.0	0.0	0.6	0.0	6.3	0.5	0.0	4.1
Unsig. Movement Delay, s/veh									/			
LnGrp Delay(d),s/veh	17.7	0.0	13.6	13.2	0.0	0.0	10.9	0.0	20.1	12.6	0.0	15.0
LnGrp LOS	В	Α	В	В	A	Α	В	Α	С	В	Α	<u>B</u>
Approach Vol, veh/h		486			74			729			589	
Approach Delay, s/veh		16.7			13.2			18.7			14.6	
Approach LOS		В			В			В			В	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.3	25.0		20.5	7.0	25.3		20.5				
Change Period (Y+Rc), s	4.0	5.0		4.0	4.0	5.0		4.0				
Max Green Setting (Gmax), s	5.6	33.4		28.0	5.6	33.4		28.0				
Max Q Clear Time (g_c+l1), s	4.1	15.2		3.9	3.9	19.6		16.3				
Green Ext Time (p_c), s	0.0	0.6		0.1	0.0	0.7		0.2				
Intersection Summary												
HCM 6th Ctrl Delay			16.7									
HCM 6th LOS			В									

Signalized Intersection V/C Calculation Summary

MORNING PEAK HOUR

렱
rsec
non
4:
Hagers
Grove
Road
<u>۲</u>
Carson
Drive

Critical Movement: Adjusted Flow Rate: Saturated Flow: Flow Ratio:	Year 2042 Buildout	Adjusted Flow Rate: Saturated Flow: Flow Ratio:	Year 2024 Background Critical Movement:	Saturated Flow: Flow Ratio:	Critical Movement: Adjusted Flow Rate:	Year 2022	EVENING PEAK HOUR Intersection 4: Hagers Grove Road SE & Carson Drive	Critical Movement: Adjusted Flow Rate: Saturated Flow: Flow Paris:	Adjusted Flow Rate: Saturated Flow: Flow Ratio: Year 2024 Buildout	Year 2024 Background Critical Movement:	Adjusted Flow Rate: Saturated Flow: Flow Ratio:	Intersection 4: Hagers Grove Road SE & Carson Drive Year 2022 Protected/Permittee Critical Movement: NBL NBT NBR
NBL 112 1674 0.07		77 1674 0.05	NBL	0.05	NBL 76	is diove ve	UR UR	NBL 144 1581	111 1581 0.07		110 1581 0.07	rs Grove Ro
NBT 617 1741 0.35	Protect	636 1742 0.37	Protect NBT	0.35	NBT 611	Protect	od SE & Ca	NBT 372 1649	1650 0.24 Protect	Protecti NBT	379 1649 0.23	Protecti NBT
NBR 5 14 0.36 0.42	0.42 ed/Permitted L	5 14 0.36	ed/Permitte NBR	0.36 0.41	NBR	ed/Permitte	0.43 0.43 Irson Drive	NBR 2 9	0.25 0.42 0.42	0.40 ed/Permitted I NBR	2 9 0.22	ed/Permitte
SBL 99 1661 0.06		99 1661 0.06	Protected/Permitted Left-Turn Phasing NBT NBR SBL SBT	0.06 41	SBL 95	Protected/Permitted Left-Turn Phasing	43	SBL 28 1647	0.24 0.25 0.02 0.35 0.35 0.40 0.42 0.42 Protected/Permitted Left-Turn Phasing		28 1647 0.02	SE & Carson Drive Protected/Permitted Left-Turn Phasing NBT NBR SBL SBT
SBT 433 1511 0.29	Phasing	450 1517 0.30	Phasing SBT	0.29	SBT 431	Phasing	Ċ	SBT 470 1403	1413 0.35 Phasing	Phasing SBT	468 1401 0.33	Phasing SBT
SBR 57 198 0.29		57 192 0.30	SBR	0.29	SBR 56		†	SBR 93 277	269 0.35	SBR	93 278 0.33	SBR
1254 0.30		322 1256 0.26	EBL	0.25	EBL 312		0.20	EBL 285 1101	230 1102 0.22	EBL	233 1106 0.21	EBL
EBT 6 79 0.08		4 68 0.06	Perm	0.06		Perm	0.10	EBT 7 72	0.08 Perm	Permitted EBT	6 78 0.08	Perm
110 1430 0.08 0.30	0.26 Permitted Left-Turn Phasing	84 1438 0.06	Permitted Left-Turn Phasing EBR WBL	0.06 0.25	EBR 83	Permitted Left-Turn Phasing	0.26	EBR 125 1281	99 3 1276 24 0.08 0.21 0.22 Permitted Left-Turn Phasing	0.21 Permitted Left-Turn Phasing EBT EBR WBL	98 1275 0.08	Permitted Left-Turn Phasing EBR WBL
WBL 1 4 0.25	urn Phasing	1 4 0.25	urn Phasing WBL	0.25	WBL	urn Phasing	2.2.2	WBL 5	24 0.21 urn Phasing	hasing WBL	4 20 0.20	urn Phasing WBL
WBT 5 119 0.04		3 80 0.04	WBT	0.04	WBT			WBT 6 142	127 0.04	4	5 123 0.04	WBT
WBR 68 1392 0.05		68 1424 0.05	WBR	0.05	WBR 66			WBR 90 1348	1359 0.07	WBR	86 1367 0.06	WBR
Sum of Critical Flow Ratios: Cycle Length (seconds): Lost Time per phase (seconds): Number of Phases:		Cycle Length (seconds): Lost Time per phase (seconds): Number of Phases:	Sum of Critical Flow Ratios:	Number of Phases:	Sum of Critical Flow Ratios: Cycle Length (seconds):		Nullibel of Fliases.	Sum of Critical Flow Ratios: Cycle Length (seconds): Lost Time per phase (seconds): Number of Bhases:	Lost Time per phase (seconds): Number of Phases:	Sum of Critical Flow Ratios:	Cycle Length (seconds): Lost Time per phase (seconds): Number of Phases:	Sum of Critical Flow Ratios:
0.71 80 4		4 4	0.68	4 4	0.66 80		1	0.69 80 4	0 4 4	0.63	4 4	0.61
Critical Intersection V/C:			Critical Intersection V/C:		Critical Intersection V/C:			Critical Intersection V/C:		Critical Intersection V/C:		Critical Intersection V/C:
0.89			0.85		0.83			0.86		0.79		0.77

Notes:

Since NB and SB left-turn phases are protected, critical ring is either EBL+WBT or WBL+EBT - HCM6 does not show reductions for permitted left turns since EB and WB left-turn phases are permitted, critical ring is maximum of any lane group.

Deed/Title Report for Tax Lot 10000

File: 2020-109.01
Project No: 2020-109

Stop-N-Save Gas Station



Property Profile Report

Client Name:

Todays Date: **08/16/2022**

Owner Name:

Dhaliwal, Inderjit Singh Dhaliwaland, Harender K

Property Address:

1545 Lancaster Dr SE Salem OR 97317

Reference Number:

082W06AB10000

Account Number:

529459

Seven Ticor Mid-Valley locations to serve you:											
400 SW 4th St	52 E Airport Rd	1215 NE Baker St	315 Commercial	115 N College St	206 N 1st St						
Ste 100	Lebanon, OR	McMinnville, OR	St SE, Ste 150	STE 200	Silverton, OR						
Corvallis, OR	97355	97128	Salem, OR 97301	Newberg, OR	97381						
97330	541.258.2813	503.472.6101	503.585.1881	97132	503.873.5305						
541.757.1466				503.542.1400							
	400 SW 4th St Ste 100 Corvallis, OR 97330	400 SW 4th St Ste 100 Lebanon, OR Corvallis, OR 97355 97330 541.258.2813	400 SW 4th St 52 E Airport Rd 1215 NE Baker St Ste 100 Lebanon, OR McMinnville, OR Corvallis, OR 97355 97128 97330 541.258.2813 503.472.6101	400 SW 4th St 52 E Airport Rd 1215 NE Baker St 315 Commercial Ste 100 Lebanon, OR McMinnville, OR St SE, Ste 150 Corvallis, OR 97355 97128 Salem, OR 97301 97330 541.258.2813 503.472.6101 503.585.1881	Ste 100 Lebanon, OR McMinnville, OR St SE, Ste 150 STE 200 Corvallis, OR 97355 97128 Salem, OR 97301 Newberg, OR 97330 541.258.2813 503.472.6101 503.585.1881 97132						

This title information has been furnished, without charge, in conformance with guidelines approved by the State of Oregon Insurance Commissioner. The Insurance Division cautions that indiscriminate use only benefiting intermediaries will not be permitted. No liability is assumed for any errors in this record.

The information compiled in this report(s) was imported from a vendor-provided database source. Although the information is deemed reliable and every effort has been taken to correct data imperfections, Ticor Title cannot be held responsible for any inaccuracies.

TITLE AND ESCROW SERVICES

www.TicorMidValley.com

For all your customer service needs: MVCS@TicorTitle.com



Parcel Information

Parcel #: 529459

Tax Lot: 082W06AB10000

Site Address: 1545 Lancaster Dr SE

Salem OR 97317

Owner: Dhaliwal, Inderjit Singh
Owner2: Dhaliwaland, Harender K

Owner Address: 417 Main St E

Monmouth OR 97361 - 2336

Twn/Range/Section: 08S / 02W / 06 / NE

Parcel Size: 0.62 Acres (27,007 SqFt)

Plat/Subdivision:

Lot: 10000

Block:

Census Tract/Block: 001803 / 2016

Waterfront:

Assessment Information

Market Value Land: \$371,350.00

Market Value Impr: \$0.00

Market Value Total: \$371,350.00

Assessed Value: \$125,330.00

Tax Information

Levy Code Area: 24013

Levy Rate: 19.6609

Tax Year: 2021

Annual Tax: \$2,464.08

Exempt Desc:

Legal

ACRES 0.62

<u>Land</u>

Zoning: CR - Retail Commercial

Cnty Land Use: 200 - Commercial land

only

Std Land Use: CMSC - Commercial

Miscellaneous

School District: 24J - Salem-Keizer

Middle School: HOUCK MIDDLE

SCHOOL

Cnty Bldg Use: Commercial Cmlse Commercial Secondary

Neighborhood:

Recreation:

Primary School: MILLER ELEMENTARY SCHOOL

High School: NORTH SALEM HIGH SCHOOL

Improvement

Year Built: Bedrooms: Stories: Bathrooms: Finished Area: Garage:

Basement Fin:

Transfer Information

Rec. Date: 08/31/2020

Sale Price: \$390,000.00

Loan Type:

Doc Num: 43790017

Doc Type: Deed

Owner: Inderjit S Dhaliwal

Grantor: EPPING FOUNDATION HOLDINGS LLC

Orig. Loan

Amt:

Title Co: TICOR TITLE

Finance Type:

Lender:



Parcel Information

Parcel #: 337069

Tax Lot: 082W06AB10000

Site Address: 1545 Lancaster Dr SE

Salem OR 97317

Owner: Dhaliwal, Inderjit Singh

Owner2: Dhaliwaland, Harender K

Owner Address: 417 Main St E

Monmouth OR 97361 - 2336

Twn/Range/Section: 08S / 02W / 06 / NE

Parcel Size: 0.05 Acres (2,248 SqFt)

Plat/Subdivision:

Lot: 10000

Block:

Census Tract/Block: 001803 / 2016

Waterfront:

Assessment Information

Market Value Land: \$30,910.00
Market Value Impr: \$0.00
Market Value Total: \$30,910.00
Assessed Value: \$9,480.00

Tax Information

Levy Code Area: 24943

Levy Rate: 19.6609

Tax Year: 2021

Annual Tax: \$186.38

Exempt Desc:

Legal

ACRES 0.05

Land

Zoning: CR - Retail Commercial

Cnty Land Use: 200 - Commercial land

only

Std Land Use: CMSC - Commercial

Miscellaneous

School District: 24J - Salem-Keizer

Middle School: HOUCK MIDDLE

SCHOOL

Cnty Bldg Use: Commercial Cmlse Commercial Secondary

Neighborhood:

Recreation:

Primary School: MILLER ELEMENTARY SCHOOL High School: NORTH SALEM HIGH SCHOOL

Improvement

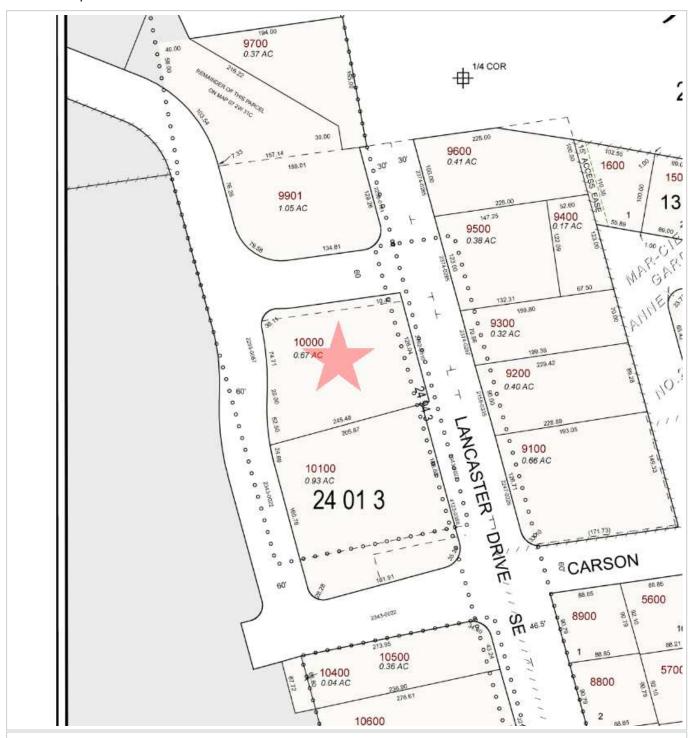
Year Built: Stories: Finished Area:
Bedrooms: Bathrooms: Garage:

Basement Fin:

<u>Transfer Information</u>			
Rec. Date: 08/31/2020	Sale Price: \$390,000.00	Doc Num: 43790017	Doc Type: Deed
Owner: Inderjit S Dhaliwa		Grantor: EPPING FOUNDA	TION HOLDINGS LLC
Orig. Loan Amt:		Title Co: TICOR TITLE	
Finance Type:	Loan Type:	Lender:	

Transfer Record(s) Found For: 529459 1545 Lancaster Dr SE, Salem OR 97317

Recording Date Grantee Name	08/31/2020 INDERJIT S DHALIWAL	Sale Amount Title Co	\$390,000.00 TICOR TITLE	Mtg 1 Amount Mtg 1 Loan Type	\$0.00
Grantor Name	EPPING FOUNDATION HOLDINGS LLC	Doc#	43790017	Doc Type	G
Lender					
Recording Date Grantee Name	08/01/2017 EPPING FOUNDATION HOLDINGS LLC	Sale Amount Title Co	\$0.00	Mtg 1 Amount Mtg 1 Loan Type	\$0.00
Grantor Name	LARRY & JEANETTE EPPING FAMILY	Doc#	39770009	Doc Type	G
Lender					
Recording Date Grantee Name	03/10/2005 LARRY & JEANETTE EPPING FAM FO	Sale Amount Title Co	\$0.00	Mtg 1 Amount Mtg 1 Loan Type	\$0.00
Grantor Name Lender	GRANADA LAND	Doc#	24490009	Doc Type	G





Parcel ID: 529459

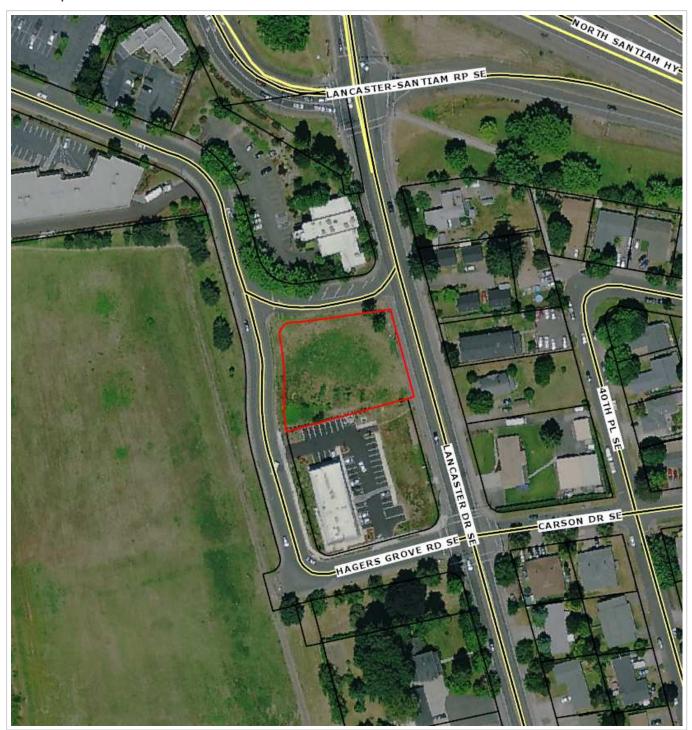
Site Address: 1545 Lancaster Dr SE





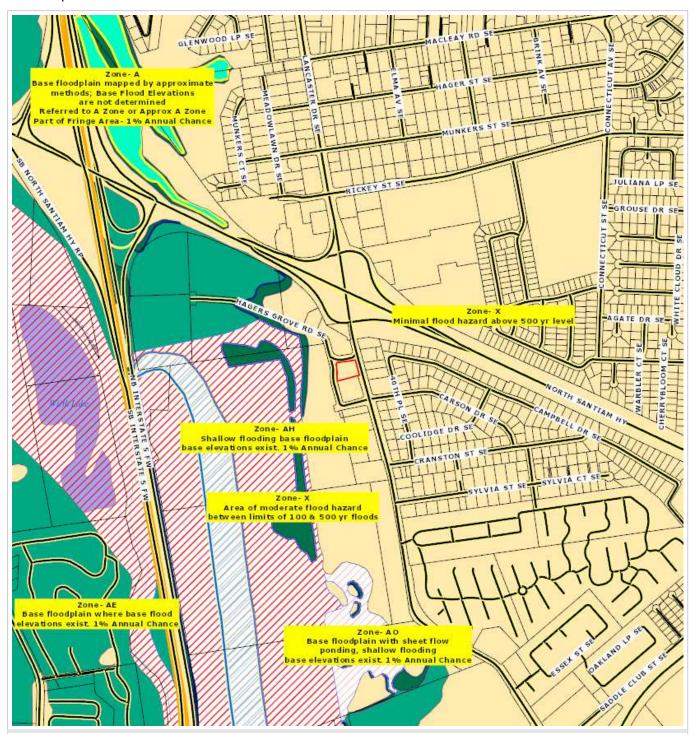
Parcel ID: 529459

Site Address: 1545 Lancaster Dr SE



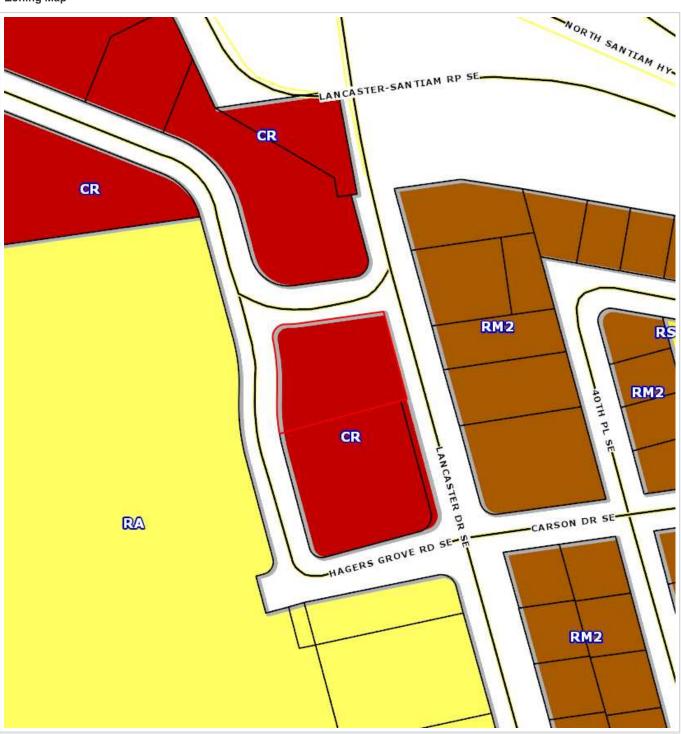


Parcel ID: 529459





Parcel ID: 529459





Parcel ID: 529459



315 Commercial St SE, Ste 150 Salem, OR 97301

GRANTOR'S NAME:

Epping Foundation Holdings LLC

GRANTEE'S NAME:

Inderjit Singh Dhaliwal, Harender K. Dhaliwal, Talwinder Singh Dhaliwal, and Varinder K. Dhaliwal

AFTER RECORDING RETURN TO:

Order No.: 471820096292-LN

Inderjit Singh Dhaliwal and Harender K. Dhaliwaland and Talwinder Singh Dhaliwaland and Varinder K. Dhaliwal, not as tenants in

common, but with the rights of survivorship

417 Main St E Monmouth, OR 97361

SEND TAX STATEMENTS TO:

Inderjit Singh Dhaliwal 417 Main St E Monmouth, OR 97361

APN: 529459

Map: 082W06AB10000

1545 Lancaster Drive SE, Salem, OR 97317

REEL 4379 PAGE 17
MARION COUNTY
BILL BURGESS, COUNTY CLERK
08-31-2020 01:21 pm.
Control Number 615746 \$ 96.00
Instrument 2020 00047399

SPACE ABOVE THIS LINE FOR RECORDER'S USE

STATUTORY WARRANTY DEED

Epping Foundation Holdings LLC, Grantor, conveys and warrants to Inderjit Singh Dhaliwal and Harender K. Dhaliwaland and Talwinder Singh Dhaliwaland and Varinder K. Dhaliwal, not as tenants in common, but with the rights of survivorship, Grantee, the following described real property, free and clear of encumbrances except as specifically set forth below, situated in the County of Marion, State of Oregon:

A parcel of land lying in the South half of the Benjamin Munkers Donation Land Claim No. 52 in Section 6 of Township 8 South, Range 2 West of the Willamette Meridian, in the City of Salem, County of Marion, State of Oregon, being more particularly described as follows:

Beginning at Engineer's Station 61-66.63 in the center of Lancaster Drive on the line dividing the North and South halves of the said Munkers Donation Land Claim as shown in C.S. 33072 a recorded in the Marion County Surveyors Office; thence South 15°05'13" East, along the centerline of said Lancaster Drive, a distance of 326.71 feet to a point on the South line of that tract of land described and recorded in Reel 155, page 450, Deed Records for Marion County, Oregon; thence South 74°51'55" West, along the South line of said tract, a distance of 38.00 feet to the Westerly right-of-way line of said Lancaster Drive and being the TRUE POINT OF BEGINNING: thence South 74°51'55" West, along said South line, a distance of 205.87 feet to a point on the Easterly line of the relocated Hagers Grove Road; thence Northerly, along said Easterly line, on the arc of a 270.00 foot radius curve to the right, (the chord of which bears North 04°18'10" West 52.42 feet), a distance of 52.50 feet; thence North 01°16'05" East, along said Easterly line, a distance of 20.00 feet; thence Northerly, along said Easterly line, on the arc of a 330.00 foot radius curve to the left, (the chord of which bears North 05°13'04" West 74.55 feet), a distance of 74.71 feet; thence Northeasterly, along the arc of a 20.00 foot radius curve to the right, (the chord of which bears North 40°01'27" East 31.40 feet), a distance of 36.11 feet to a point on the Southerly right-of-way line of Hagers Grove Road; thence Northeasterly, along said right-of-way line, on the arc of a 120.00 foot radius curve to the left, (the chord of which bears North 86°47'08" East 20.78 feet), a distance of 20.80 feet; thence North 81°49'08" East, along said right-of-way, a distance of 132.52 feet to a point on the Westerly right-of-way line of said Lancaster Drive; thence South 15°05'13" East, along said right-of-way line, a distance of 141.72 feet to the TRUE POINT OF BEGINNING.

THE TRUE AND ACTUAL CONSIDERATION FOR THIS CONVEYANCE IS THREE HUNDRED NINETY THOUSAND AND NO/100 DOLLARS (\$390,000.00). (See ORS 93.030).

Subject to:

Property taxes in an undetermined amount, which are a lien but not yet payable, including any assessments collected with taxes to be levied for the fiscal year 2020-2021.

Any rights, liens, claims or equities, if any, in favor of East Salem Sewer and Drainage District.

Rights of the public to any portion of the Land lying within the area commonly known as streets, roads and/or highways.

STATUTORY WARRANTY DEED

(continued)

Limited access to and from the Land as set forth in Deed shown below, which provides that there shall be no right of easement or right of access to, from or across the State Highway other than as expressly provided for in said

Grantor:

Grantee: State

State of Oregon, by and through its State Highway Commission

Recording Date: Recording No.: November 19, 1952 Book 445, page 426

Limited access to and from the Land as set forth in Deed shown below, which provides that there shall be no right of easement or right of access to, from or across the State Highway other than as expressly provided for in said

Graneer:

State of Oregon, by and through its State Highway Commission

Recording Date:

May 14, 1958

Recording No.:

Book 511, page 606

Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:

Suburban East Salem Water District

Purpose:

Water pipe

Recording Date: Recording No:

June 16, 1972 Book 728, page 666

Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:

City of Salem

Purpose: Recording Date: Slopes

Recording Date Recording No: August 22, 2003 Reel 2182, page 311

Affects:

Reference is hereby made to said document for full particulars

Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:

City of Salem

Purpose:

Public utilities and appurtenances

Recording Date:

August 22, 2003

Recording No: Affects:

Reel 2182, page 312 Reference is hereby made to said document for full particulars

Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:

City of Salem

Purpose:

Slopes

Recording Date:

March 30, 2004

Recording No:

Reel 2295, page 88

Affects:

Reference is hereby made to said document for full particulars

BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE SHOULD INQUIRE ABOUT THE PERSON'S RIGHTS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010. THIS INSTRUMENT DOES NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY THAT THE UNIT OF LAND BEING TRANSFERRED IS A LAWFULLY ESTABLISHED LOT OR PARCEL, AS DEFINED IN ORS 92.010 OR 215.010, TO VERIFY THE APPROVED USES OF THE LOT OR PARCEL, TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES, AS DEFINED IN ORS 30.930, AND TO INQUIRE ABOUT THE RIGHTS OF NEIGHBORING PROPERTY OWNERS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010.

STATUTORY WARRANTY DEED

(continued)

IN WITNESS WHEREOF, the undersigned have executed this document on the date(s) set forth below.
Dated: <u> </u>
Epping Foundation Holdings LLC
BY: William C. Davis Authorized Signer
Michael Pettyjonn Trust Officer for Pioneer Trust Bank NA
State of Dreson County of Markey
Fhis instrument was acknowledged before me on <u>FOOL</u> by Michael PettyJohn, as Trust Officer or Pioneer Trust Bank NA for Epping Foundation Holdings LLC and William C. Davis, as Authorized Signer for Epping Foundation Holdings LLC.
Notary Public - State of Oregon
My Commission Expires: C1 38 Do 23 OFFICIAL STAMP MARIANNE SCHEELAR NOTARY PUBLIC-OREGON COMMISSION NO. 982744 MY COMMISSION EXPIRES JANUARY 28, 2023

REEL: 4379 PAGE: 17

August 31, 2020, 01:21 pm.

CONTROL #: 615746

State of Oregon County of Marion

I hereby certify that the attached instrument was received and duly recorded by me in Marion County records:

FEE: \$ 96.00

BILL BURGESS COUNTY CLERK

THIS IS NOT AN INVOICE.

Deed/Title Report for Tax Lot 10100



Property Profile Report

Client Name:

Todays Date: **08/16/2022**

Owner Name:

Avi LLC

Property Address:

3997 Carson Dr SE Salem OR 97317 6187

Reference Number: 082W06AB10100

Account Number: **529457**

Seven Ticor Mid-Valley locations to serve you:

400 SW 4th St	52 E Airport Rd	1215 NE Baker St	315 Commercial	115 N College St	206 N 1st St
Ste 100	Lebanon, OR	McMinnville, OR	St SE, Ste 150	STE 200	Silverton, OR
Corvallis, OR	97355	97128	Salem, OR 97301	Newberg, OR	97381
97330	541.258.2813	503.472.6101	503.585.1881	97132	503.873.5305
541.757.1466				503.542.1400	
	Ste 100 Corvallis, OR 97330	Ste 100 Lebanon, OR Corvallis, OR 97355 97330 541.258.2813	Ste 100 Lebanon, OR McMinnville, OR Corvallis, OR 97355 97128 97330 541.258.2813 503.472.6101	Ste 100 Lebanon, OR McMinnville, OR St SE, Ste 150 Corvallis, OR 97355 97128 Salem, OR 97301 97330 541.258.2813 503.472.6101 503.585.1881	Ste 100 Lebanon, OR McMinnville, OR St SE, Ste 150 STE 200 Corvallis, OR 97355 97128 Salem, OR 97301 Newberg, OR 97330 541.258.2813 503.472.6101 503.585.1881 97132

This title information has been furnished, without charge, in conformance with guidelines approved by the State of Oregon Insurance Commissioner. The Insurance Division cautions that indiscriminate use only benefiting intermediaries will not be permitted. No liability is assumed for any errors in this record.

The information compiled in this report(s) was imported from a vendor-provided database source. Although the information is deemed reliable and every effort has been taken to correct data imperfections, Ticor Title cannot be held responsible for any inaccuracies.

TITLE AND ESCROW SERVICES

www.TicorMidValley.com

For all your customer service needs: MVCS@TicorTitle.com



Parcel Information

Parcel #: 529457

Tax Lot: 082W06AB10100

Site Address: 3997 Carson Dr SE

Salem OR 97317 - 6187

Owner: Avi LLC

Owner2:

Owner Address: 2433 Broadway St NW

Albany OR 97321 - 1282

Twn/Range/Section: 08S / 02W / 06 / NE

Parcel Size: 0.68 Acres (29,705 SqFt)

Plat/Subdivision:

Lot: Block:

Census Tract/Block: 001803 / 2016

Waterfront:

Assessment Information

Market Value Land: \$269,570.00
Market Value Impr: \$420,180.00
Market Value Total: \$689,750.00
Assessed Value: \$537,300.00

Tax Information

Levy Code Area: 24013

Levy Rate: 19.6609

Tax Year: 2021

Annual Tax: \$10,563.79

Exempt Desc:

Legal

ACRES 0.68

Land

Zoning: CR - Retail Commercial

Cnty Land Use: 201 - Commercial

improved

Std Land Use: CSTO - Stores, Retail

School District: 24J - Salem-Keizer Middle School: HOUCK MIDDLE

SCHOOL

Cnty Bldg Use: 595 - Commercial Cmlsr Commercial Standard - Row Store

Neighborhood:

Recreation:

Primary School: MILLER ELEMENTARY SCHOOL

High School: NORTH SALEM HIGH SCHOOL

<u>Improvement</u>

Year Built: Stories: Finished Area: 5,805
Bedrooms: Garage:

Basement Fin:

Transfer Information

Loan Date: 07/28/2020 **Loan Amt:** \$1,686,000.00 **Doc Num:** 43640273 **Doc Type:** Deed Of Trust

Loan Type: Finance Type: Conventional Lender: READYCAP LNDG LLC

Rec. Date: 09/20/2018	Sale Price:	Doc Num: 41230388 Doc Type: Deed
Owner: City Of Salem		Grantor: DHALIWAL TALWINDER S & INDERJIT S
Orig. Loan Amt:		Title Co:
Finance Type:	Loan Type:	Lender:



Tax Information

Levy Code Area: 24010

Exempt Desc:

<u>Legal</u>

ACRES 0.22

Levy Rate: 19.6609

Annual Tax: \$5,220.92

Tax Year: 2021

Parcel Information

Parcel #: 332584

Tax Lot: 082W06AB10100

Site Address: 3997 Carson Dr SE

Salem OR 97317 - 6187

Owner: Avi LLC

Owner2:

Owner Address: 2433 Broadway St NW

Albany OR 97321 - 1282

Twn/Range/Section: 08S / 02W / 06 / NE

Parcel Size: 0.22 Acres (9,739 SqFt)

Plat/Subdivision:

Lot:

Block:

Census Tract/Block: 001803 / 2016

Waterfront:

Assessment Information

Market Value Land: \$88,380.00 Market Value Impr: \$252,790.00 Market Value Total: \$341,170.00

Assessed Value: \$265,550.00

Land

Zoning: CR - Retail Commercial

Cnty Land Use: 201 - Commercial

improved

Std Land Use: CSTO - Stores, Retail

School District: 24J - Salem-Keizer Middle School: HOUCK MIDDLE

SCHOOL

Cnty Bldg Use: 595 - Commercial Cmlsr Commercial Standard - Row Store

Neighborhood:

Recreation:

Primary School: MILLER ELEMENTARY SCHOOL High School: NORTH SALEM HIGH SCHOOL

Improvement

Year Built: Finished Area: Stories: Bedrooms: Bathrooms: Garage:

Basement Fin:

Transfer Information

Loan Date: 09/20/2019 Loan Amt: \$160,000.00 Doc Num: 42440238 Doc Type: Deed Of Trust

Loan Type: Finance Type: Conventional Lender: PRECISION CAP

Rec. Date: 06/25/2018	Sale Price:	Doc Num: 40910319
Owner: Avi LLC		Grantor: DHALIWAL TALWINDER S & INDERJIT S
Orig. Loan Amt:		Title Co: ATTORNEY ONLY
Finance Type:	Loan Type:	Lender:



Parcel Information

Parcel #: 337070

Tax Lot: 082W06AB10100

Site Address: 3997 Carson Dr SE

Salem OR 97317 - 6187

Owner: Avi LLC

Owner2:

Owner Address: 2433 Broadway St NW

Albany OR 97321 - 1282

Twn/Range/Section: 08S / 02W / 06 / NE

Parcel Size: 0.02 Acres (922 SqFt)

Plat/Subdivision:

Lot:

Block:

Census Tract/Block: 001803 / 2016

Waterfront:

Assessment Information

Market Value Land: \$8,370.00 Market Value Impr: \$0.00 Market Value Total: \$8,370.00

Assessed Value: \$6,510.00

Zoning: CR - Retail Commercial

Cnty Land Use: 200 - Commercial land

Std Land Use: CMSC - Commercial

Miscellaneous

School District: 24J - Salem-Keizer

SCHOOL

Tax Information

Levy Code Area: 24943

Levy Rate: 19.6609

Tax Year: 2021

Annual Tax: \$127.99

Exempt Desc:

<u>Legal</u>

ACRES 0.02

Land

only

Middle School: HOUCK MIDDLE

Cnty Bldg Use: Commercial Cmlsr Commercial Standard

Neighborhood:

Recreation:

Primary School: MILLER ELEMENTARY SCHOOL High School: NORTH SALEM HIGH SCHOOL

<u>Improvement</u>

Year Built: Stories: **Finished Area:** Bedrooms: Bathrooms: Garage:

Basement Fin:

Transfer Information			
Rec. Date: 06/25/2018	Sale Price:	Doc Num: 40910319	Doc Type: Deed
Owner: Avi LLC		Grantor: DHALIWAL TALV	VINDER S & INDERJIT S
Orig. Loan Amt:		Title Co: ATTORNEY ONL	Y
Finance Type:	Loan Type:	Lender:	



Parcel Information

Parcel #: 337071

Tax Lot: 082W06AB10100

Site Address: 3997 Carson Dr SE

Salem OR 97317 - 6187

Owner: Avi LLC

Owner2:

Owner Address: 2433 Broadway St NW

Albany OR 97321 - 1282

Twn/Range/Section: 08S / 02W / 06 / NE

Parcel Size: 0.93 Acres (183 SqFt)

Plat/Subdivision:

Lot:

Block:

Census Tract/Block: 001803 / 2016

Waterfront:

Assessment Information

Market Value Land: \$1,660.00
Market Value Impr: \$0.00
Market Value Total: \$1,660.00

Assessed Value: \$1,290.00

Tax Information

Levy Code Area: 24940

Levy Rate: 19.6609

Tax Year: 2021

Annual Tax: \$25.38

Exempt Desc:

<u>Legal</u>

ACRES 0.00

Land

Zoning: CR - Retail Commercial

Cnty Land Use: 200 - Commercial land

only

Std Land Use: CMSC - Commercial

Miscellaneous

School District: 24J - Salem-Keizer

Middle School: HOUCK MIDDLE

SCHOOL

Cnty Bldg Use: Commercial Cmlsr Commercial Standard

Neighborhood:

Recreation:

Primary School: MILLER ELEMENTARY SCHOOL High School: NORTH SALEM HIGH SCHOOL

<u>Improvement</u>

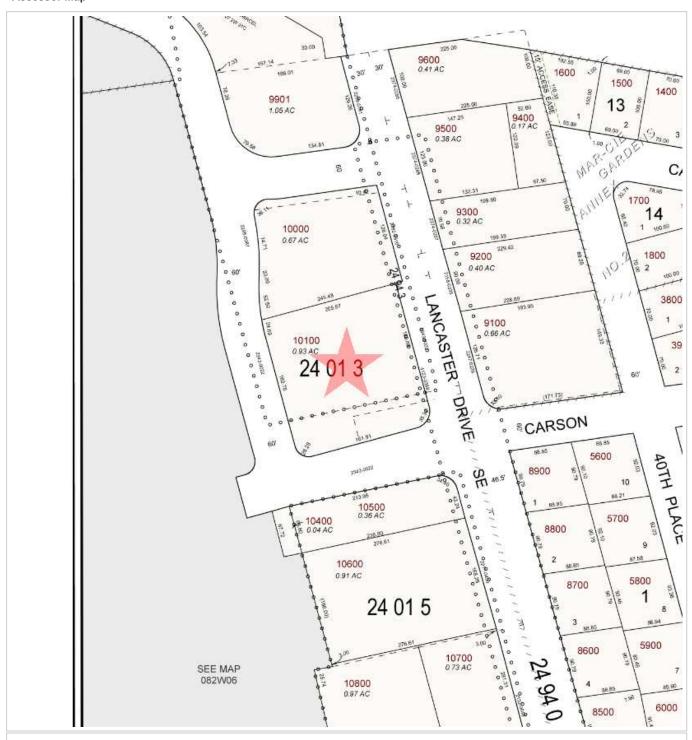
Year Built: Stories: Finished Area:
Bedrooms: Bathrooms: Garage:

Basement Fin:

Transfer Information			
Rec. Date: 06/25/2018	Sale Price:	Doc Num: 40910319	Doc Type: Deed
Owner: Avi LLC		Grantor: DHALIWAL TALV	VINDER S & INDERJIT S
Orig. Loan Amt:		Title Co: ATTORNEY ONL	Y
Finance Type:	Loan Type:	Lender:	

Transfer Record(s) Found For: 529457 3997 Carson Dr SE, Salem OR 97317

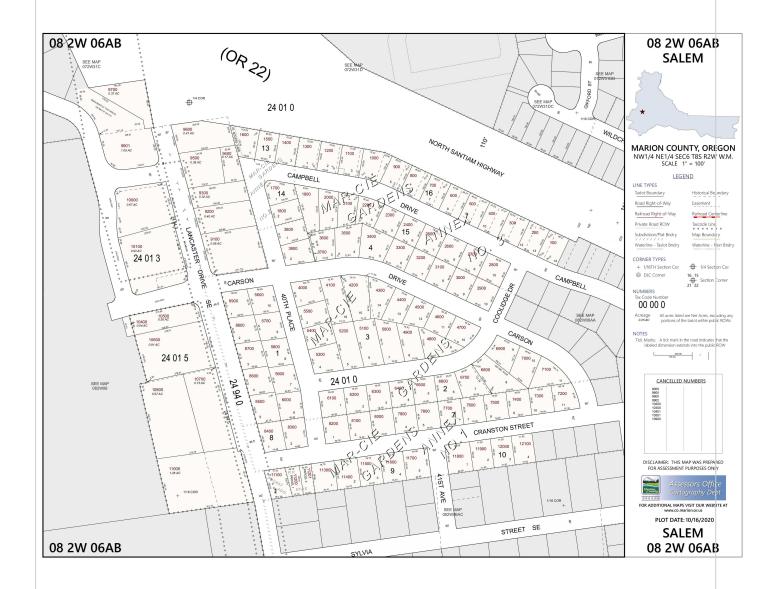
Recording Date Grantee Name Grantor Name Lender	07/28/2020 AVI LLC READYCAP LNDG L	Sale Amount Title Co Doc # LC	\$0.00 ATTORNEY ONLY 43640273	Mtg 1 Amount Mtg 1 Loan Type Doc Type	\$1,686,000.00 CNV T
Recording Date Grantee Name	09/20/2018 CITY OF SALEM	Sale Amount Title Co	\$0.00	Mtg 1 Amount Mtg 1 Loan Type	\$0.00
Grantor Name	DHALIWAL TALWINDER S & INDERJIT S	Doc#	41230388	Doc Type	G
Lender					
Recording Date	06/25/2018	Sale Amount	\$0.00	Mtg 1 Amount	\$0.00
Grantee Name	AVI LLC	Title Co	ATTORNEY ONLY	Mtg 1 Loan Type	
Grantor Name	DHALIWAL TALWINDER S & INDERJIT S	Doc#	40910319	Doc Type	G
Lender					
December Deta	04/20/2047	Sale Amount	¢506 112 00	Man 4 Amount	¢0.00
Recording Date Grantee Name	04/28/2017 DHALIWAL TALWINDER SINGH	Title Co	\$526,113.00 TICOR TITLE	Mtg 1 Amount Mtg 1 Loan Type	\$0.00
Grantor Name	YELLOW DOG HOLDINGS LLC	Doc#	39400167	Doc Type	G
Lender					





Parcel ID: 529457

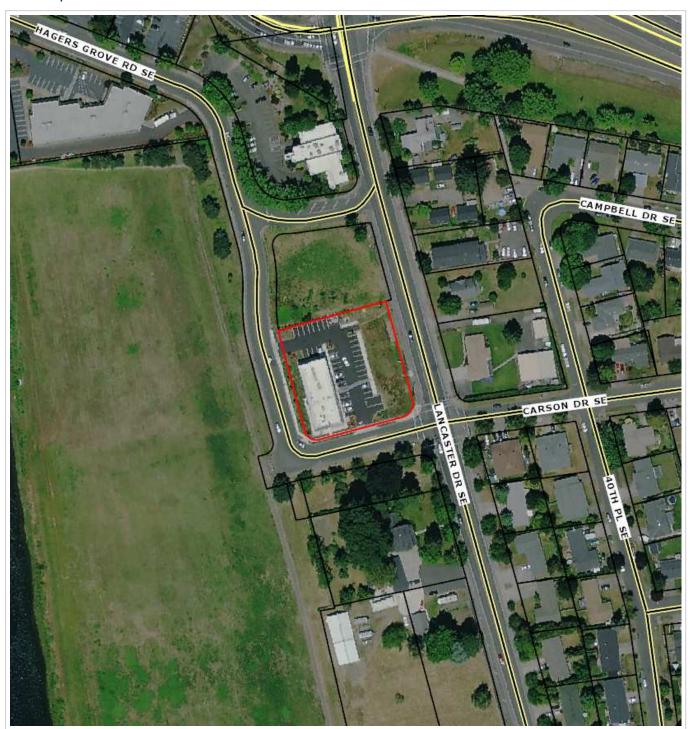
Site Address: 3997 Carson Dr SE





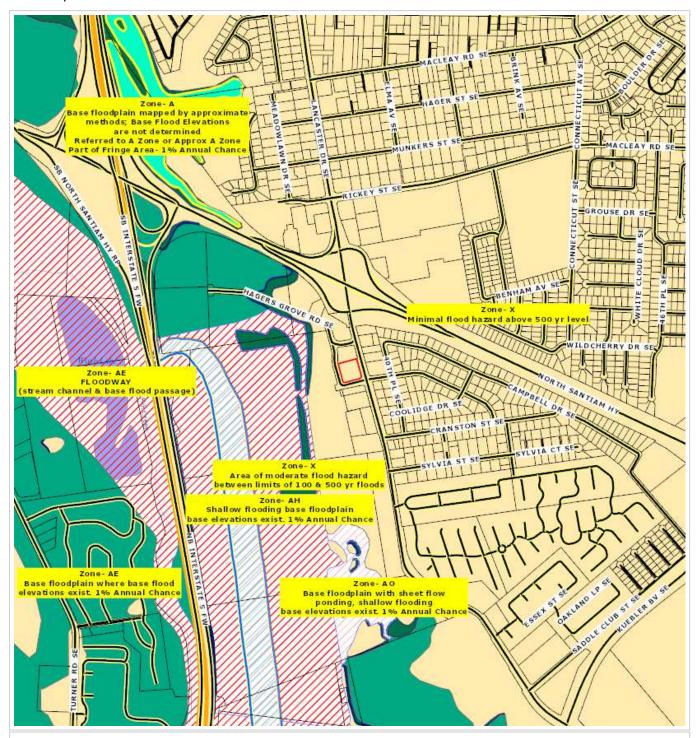
Parcel ID: 529457

Site Address: 3997 Carson Dr SE



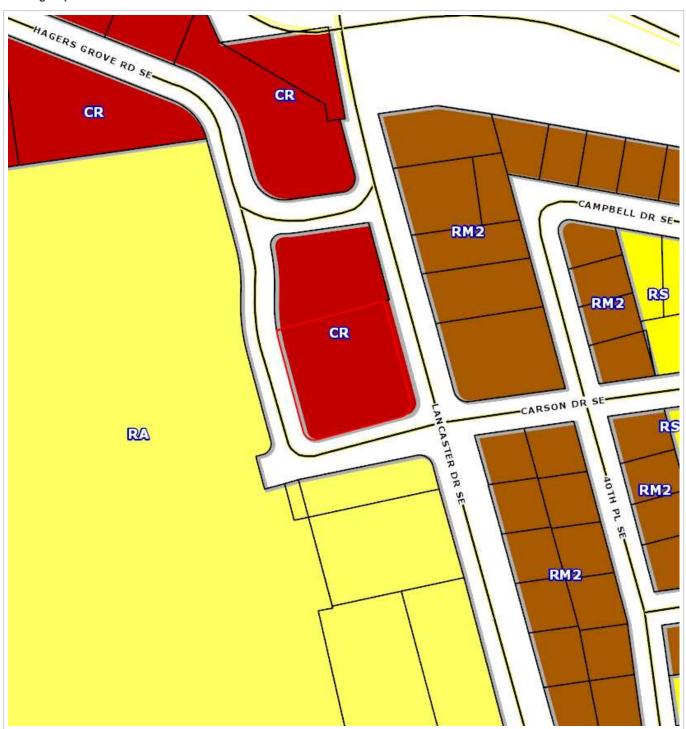


Parcel ID: 529457





Parcel ID: 529457





Parcel ID: 529457

After Recording Return To: John Hasbrook, P.C. PO Box 368 Monmouth OR 97361

Mail Tax Statements To: Avi, LLC 2433 Broadway St., NW Albany, OR 97321 REEL 4091 PAGE 319

MARION COUNTY

BILL BURGESS, COUNTY CLERK
06-25-2018 02:30 pm.

Control Number 512596 \$ 91.00
Instrument 2018 00030050

Consideration:

\$nil monetary consideration

BARGAIN AND SALE DEED

Talwinder Singh Dhaliwal and Inderjit Singh Dhaliwal, Grantors, do hereby convey and transfer to Avi, LLC, and Oregon Limited Liability Company, Grantee, all of their right, title, and interest in and to that real property situated in Marion County, Oregon, to wit:

LEGAL DESCRIPTION:

That property conveyed to Grantors in that Deed Instrument recorded at Reel 3940, Page 167, recorded on April 28, 2017, Marion County Deed Records, State of Oregon.

SUBJECT TO roads, easements, reservations, and other matters as set forth in the above referenced Deed Instrument.

SITUS ADDRESS: A lot on Lancaster Drive, Salem, Oregon 97317.

TAX ACCOUNT NO: R29457, R332584, R337070, and R337071

MAP AND TAX LOT: 082W06AB10100

The true and actual consideration for this conveyance is \$nil monetary consideration. This Deed is recorded as a transfer to an Oregon LLC.

BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE SHOULD INQUIRE ABOUT THE PERSON'S RIGHTS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010. THIS INSTRUMENT DOES NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAMD USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY THAT THE UNIT OF LAND BEING TRANSFERRED IS A LAWFULLY ESTABLISHED LOT OR PARCEL, AS DEFINED IN ORS 92.010 OR 215.010, TO VERIFY THE APPROVED USES OF THE LOT OR PARCEL, TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES, AS DEFINED IN ORS 30.930, AND TO INQUIRE ABOUT THE RIGHTS OF NEIGHBORING PROPERTY OWNERS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010.

BAJ TS

PAGE 1 of 2 - BARGAIN AND SALE DEED

DATED: <u>5-30-18</u> , 2018	Talwinder Singh Talwinder Singh Dhaliwal, Grantor
DATED:	Inderjit Singh Dhaliwal, Crantor
STATE OF OREGON) ss. County of Polk) ss.	neared the strove named Talwinder Singh Dhaliwal
Grantor, and acknowledged the foregoing instru OFFICIAL STAMP JOHN EDWARD HASBROOK NOTARY PUBLIC - OREGON COMMISSION NO. 965631 MY COMMISSION EXPRES AUGUST 21, 2021	peared the above named Talwinder Singh Dhaliwal, ment to be their voluntary act and deed. Before me: Notary Public for Oregon
STATE OF OREGON) ss. County of Polk)	My Commission Expires:
• .	ppeared the above named Inderjit Singh Dhaliwal, iment to be their voluntary act and deed. Before me:
OFFICIAL STAMP JOHN EDWARD HASBROOK NOTARY PUBLIC - OREGON COMMISSION NO. 965631 MY COMMISSION EXPIRES AUGUST 21, 2021	Motary Public for Oregon My Commission Expires: 8/21/2/

C:\Dropbox\WORK\DEEDS\18366.bs deed 053018.wpd

REEL: 4091

PAGE: 319

June 25, 2018, 02:30 pm.

CONTROL #: 512596

State of Oregon County of Marion

I hereby certify that the attached instrument was received and duly recorded by me in Marion County records:

FEE: \$ 91.00

BILL BURGESS COUNTY CLERK

THIS IS NOT AN INVOICE.

After recording, return to: City Recorder, City of Salem 555 Liberty Street SE, Room 205 Salem OR 97301-3513

Send tax statements to: Finance Department, City of Salem 555 Liberty Street SE, Room 230 Salem OR 97301-3513 REEL 4123 PAGE 388

MARION COUNTY

BILL BURGESS, COUNTY CLERK
09-20-2018 12:55 pm.
Control Number 524164 \$ 111.00
Instrument 2018 00046119

Warranty Deed

Talwinder Singh Dhaliwal and Inderjit Singh Dhaliwal, hereinafter called Grantor, 417 Main Street E, Monmouth, Oregon 97361, conveys and warrants to the CITY OF SALEM, an Oregon municipal corporation, organized and existing under and by virtue of the laws of the State of Oregon, hereinafter called Grantee, 555 Liberty Street SE, Salem, Oregon 97301-3513, all that real property situated in Marion County, State of Oregon, described as follows:

See Exhibit A attached and as shown on Exhibit B attached.

Grantor covenants that it is the owner of the above-described property free of all encumbrances, except those of record, and will warrant and defend the same against all persons who may lawfully claim the same, except as shown above.

The true and actual consideration for this transfer is no money, but for other valuable consideration.

"BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE SHOULD INQUIRE ABOUT THE PERSON'S RIGHTS, IF ANY, UNDER ORS 195.300, 195.301, AND 195.305 TO 195.336, AND SECTIONS 5 TO 11 CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010. THIS INSTRUMENT DOES NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY THAT THE UNIT OF LAND BEING TRANSFERRED IS A LAWFULLY ESTABLISHED LOT OR PARCEL, AS DEFINED IN ORS 92.010 OR 215.010, TO VERIFY THE APPROVED USES OF THE LOT OR PARCEL, TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST

Warranty Deed Rev. 7/20/18 Page 1 of 4 VLS/JP:G:\Group\clerical\dtps\dtps-projects\legal-forms\final\20180727_warranty_deed_StopNSave_17-124483-CO.docx

FARMING OR FOREST PRACTICES, AS DEFINED IN ORS 30.930, AND TO INQUIRE ABOUT THE RIGHTS OF NEIGHBORING PROPERTY OWNERS, IF ANY, UNDER ORS 195.300, 195.301, AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010."

Grantee assumes no liability for any hazardous waste on or from this Property. Grantor, its successors, and assigns, agree to defend, indemnify, and hold harmless the Grantee, its officers, agents, and employees against any and all liabilities, damages, penalties, losses, claims, demands, actions, suits, and judgments (including attorney fees and costs), and any costs or expenses incurred resulting from the presence of hazardous waste onto or from the Property, including any and all costs associated with clean up or remediation that may be required. This provision shall not apply to a release of hazardous waste onto or from the Property caused by the officers, agents, or employees of Grantee. Any action taken pursuant to this provision shall not constitute an admission of liability or waiver of any defenses to liability. "Hazardous waste" has the same meaning as provided in Oregon Revised Statutes 466.005, as may be amended.

Dated this Quy. 7 day	of
	GRANTOR
	By: Tolumindur Sun A Talwinder Singh Dhaliwal, Owner
STATE OF OREGON)	
County of Markowiczy) ss. This instrument was acknowledged before me on	7,20_18,
by Talwinder Singh Dhaliwal, as Owner.	
OFFICIAL SEAL RHONDA MICHELLE MEISENBURG NOTARY PUBLIC - OREGON COMMISSION NO. 935319 MY COMMISSION EXPIRES JANUARY 29, 2019	Notary Public—State of Oregon My commission expires:
	GRANTOR
	By: Inderjit Singh Dhaliwal, Owner
STATE OF OREGON)	
County of CW) ss. This instrument was acknowledged before me on by Inderjit Singh Dhaliwal, as Owner.	August 7, 20,18,
OFFICIAL STAMP KENNY LARA NOTARY PUBLIC - OREGON COMMISSION NO. 960108 MY COMMISSION EXPIRES MARCH 08, 2021	Notary Public—State of Oregon My commission expires: O3 C8 2021

ACCEPTED ON BEHALF OF THE CITY OF SALEM BY: Kacey Duncan, Deputy City Manager APPROVED AS TO FORM:

Print Name

Checked By: Permit Number: 17-124483-CO

July 30, 2018



AKS ENGINEERING & FORESTRY, LLC

12965 SW Herman Road, Suite 100, Tualatin, OR 97062

P: (503) 563-6151 F: (503) 563-6152

OFFICES IN: TUALATIN, OR - VANCOUVER, WA - KEIZER, OR - BEND, OR

EXHIBIT A

Legal Description

A tract of land located in the northeast One-Quarter of Section 6, Township 8 South, Range 2 West, Willamette Meridian, Marion County, Oregon and being more particularly described as follows:

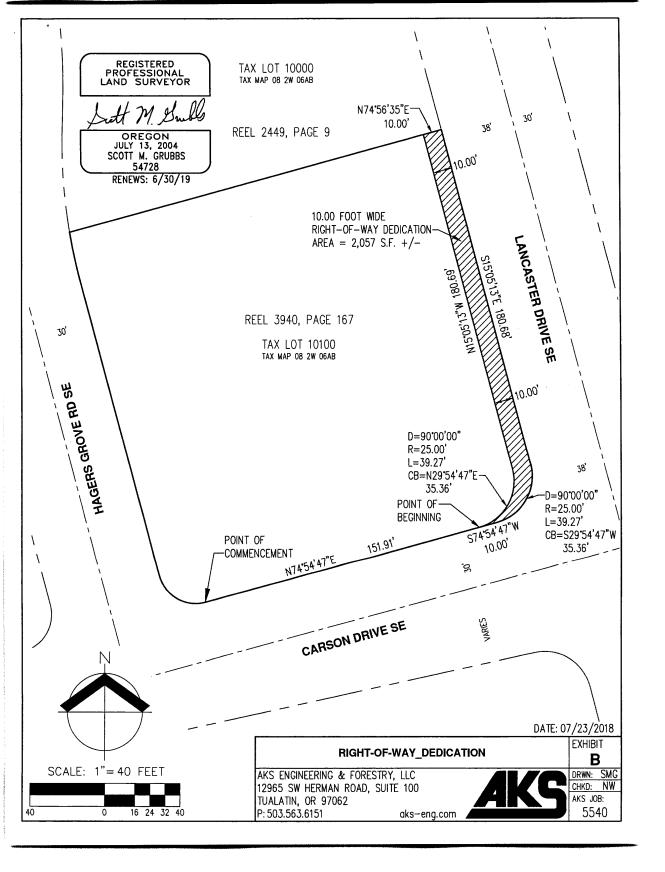
Commencing at a Point of Tangency of a 20.00 foot radius curve located at the southwest corner of that property described in Reel 3940, Page 167 of the Marion county deed records and also being on the north right-of-way line of Carson Drive SE, being 30.00 feet north of the centerline when measured perpendicular thereto; thence along said north right-of-way line, north 74°54'47 east, 151.91 feet to the Point of Beginning; thence leaving said north right-of-way line and running along a 25.00 foot radius curve to the left, through a central angle of 90°00'00" (the longchord of which bears north 29°54'47" east, 35.36 feet) an arc distance of 39.27 feet to the end thereof, also being 48.00 feet west of the centerline of Lancaster Drive SE when measured perpendicular thereto; thence north 15°05'13" west, 48.00 feet west of and parallel with the centerline of said Lancaster Drive SE, 180.69 feet to a point on the south line of that property described in Reel 2449, Page 9 of the Marion County deed records; thence along said south line, north 74°56'35" east, 10.00 feet to a point on the west right-of-way of Lancaster Drive SE; thence leaving said south line and running on said westerly Right-of-way line south 15°05'13" east, 180.68 feet to the beginning of a tangent 25.00 foot radius curve to the right; thence on said curve through a central angle of 90°00'00" (the longchord of which bears south 29°54'47" west, 35.36 feet) an arc distance of 39.27 feet to a point on the north right-of-way line of Carson Drive SE, being 30.00 feet north of the centerline when measured perpendicular thereto; thence on said north right-of-way line, south 74°54'47" West, 10.00 feet to the Point of Beginning.

The above described tract of land contains 2,057 square feet, more or less.

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON
JULY 13, 2004
SCOTT M. GRUBBS

RENEWS: 6/30/19



REEL: 4123

PAGE: 388

September 20, 2018, 12:55 pm.

CONTROL #: 524164

State of Oregon County of Marion

I hereby certify that the attached instrument was received and duly recorded by me in Marion County records:

FEE: \$ 111.00

BILL BURGESS COUNTY CLERK

THIS IS NOT AN INVOICE.

Contact with Neighborhood Assoc.

Leonard Lodder

To: robosushi@robosushi.com; arasmussen@modernbuildingsystems.com

Subject: Stop-N-Save Gas Station

Attachments: 2020-109 Stop-N-Save Gas (01-11-2022).pdf

Our client is expanding the development located at 3997 Carson Dr SE Salem OR 97317, to include a new 4-pump gas station, an additional retail building, and an oil change facility. We have attached a copy of the proposed site plan, a plan that forms part of the documentation submitted to the city for an SPR Class III. This email satisfies an SRC requirement to inform the neighborhood association of intended development.

Leonard Lodder, AIA, LEED AP

Studio 3 Architecture, Inc. 275 Court St. NE Salem, OR 97301-3442

P: 503.390.6500 D: 971.239.0207 C: 503.949.3301

E: <u>leonard@studio3architecture.com</u>
W: <u>www.studio3architecture.com</u>



End of Application documentation.

The Application is supported by a separate pdf file containing the following sheets:

General Drawings:

Sheet G0.01 Cover Sheet

Sheet G0.02 General Notes

Sheet G3.01 Perspective Views

Civil Engineering Drawings:

Sheet C2.0 Grading and Drainage Plan

Sheet C3.0 Utility Plan

Architectural Drawings:

Sheet A1.01 Site Plan

Sheet A1.02 Site Plan – Existing Conditions

Separate Drawing:

Topographic Survey.