### City of Puyallup Traffic Scoping Worksheet

#### **PROJECT INFORMATION**

Project Title: Valley Avenue Yard	Date: 7/15/2022
Applicant Name: <u>Kermit Jorgensen</u>	_Telephone Number: 206-787-1475
Project Description: 1.78-acres of truck and trailer parking	Year of Occupancy: 2023
Project Location: <u>1106; 1042 Valley Ave NW - PN: 042016</u>	-3041; -3040 Parcel Size(s): 1.78
Proposed Number of Access Point(s): 1 Existing Number	er of Access Point(s): 2

Land Use	Quantity	ITE Land Use Code	Average Daily Trips	AM Peak Hour Trips*	PM Peak Hour Trips*
Existing Use(s): 2 Sing	gle Family dwe	elling units			
LUC 210 (Single Family Detached Housing)	2 dwelling units	210	18.9	1.4	1.9
Proposed Use(s): Truck	x and Trailer P	arking Facili	ty		
Truck and Trailer Parking	1.78-acres	N/A	-	-	4.7
Net New Trips			-	-	2.8
Traffic Impact Fees:	Net New PM F	Peak Hour Tri	ps x \$4,500 = \$1	2,600	

- \* The project trips shall be rounded to the nearest tenth.
- \* The project trips shall be estimated using the ITE's *Trip Generation*, 11<sup>th</sup> Edition.
- \* Trip generation regression equations shall be used when the R<sup>2</sup> value is 0.70 or greater.
- \* For land uses that do not exist within the ITE's *Trip Generation*, actual field data shall be collected from three local facilities that have similar characteristics to the proposal.
- \* For single-family units and offices and specialty retail smaller than 30,000 SF, use ITE's *Trip Generation*, 11th Edition, average rate.

Identify all intersections that will be affected by 25 new project peak hour trips or more:

1. None	3
2	4
Prepared by: Traffic Engin	eer: <u>Aaron Van Aken</u> Telephone Number: <u>253-770-1401</u>
Address: 1011 E Main, Su	ite 453, Puyallup, WA 98371 avanaken@heathtraffic.com
Office Use Only	
TIS TAS TAI	S No Further Work Required

Checklist (Please make sure you have included the following information):

図 Completed Worksheet 図 Attach Site Plan 図 Attach Trip Assignment 図 Attach Trip Distribution

図 Mail or hand deliver to 333 South Meridian, Puyallup, WA 98371 or e-mail to standle@ci.puyallup.wa.us

Project Description: 1.78-acres of truck and trailer parking

Valley Avenue Yard

Address: 1106; 1042 Valley Avenue NW

Parcel(s): 042016-3041; -3040

#### **Project Description:**

**Project Title:** 

Valley Avenue Yard proposes for the construction of a truck and trailer parking yard comprising approximately 1.78-acres, located within the city of Puyallup. On-site currently exist two single-family structures, which are to be demolished prior to new construction. Access to the site is proposed via one driveway extending west from Valley Avenue NW, as shown in the site plan provided in Figure 1.

#### Trip Generation:

Due to lack of applicable data from the ITE *Trip Generation Manual* pertaining to truck and trailer parking facilities, project trip generation is proposed to be derived using sample site data from four local sample sites in Pierce County. Data was gathered in April of 2019 and November of 2021, which was used to derive average PM peak hour trip rates. The four sample site locations and trip rate findings from the yard sample site trip generation studies are outlined below in Table 1. An independent variable of "acres" was utilized to derive trip rates given sample site operations and characteristics. Subsequently, Table 2 extrapolates average trip rates from Table 1 to show the estimated project trip generation associated with the proposed Valley Avenue Yard.

Rate PM Peak Hour Size Sample Site **Date** (trips per acre) (acres) ln Out Total In Out Total 263 Roy Rd SW 2 2 4 1.05 1.06 2.11 4/23/2019 1.90 24 4.08 893 Valentine Ave 4/24/2019 9 15 5.88 1.53 2.55 1075 Valentine Ave 4/24/2019 4 4 8 3.37 2.38 1.19 1.19 1221 Alexander Ave 11/17/2021 5 5 10 4.90 1.02 1.02 2.04

Table 1: PM Peak Hour Trip Generation Rates:

Table 2: Project PM Peak Hour Trip Generation

**Average Rates** 

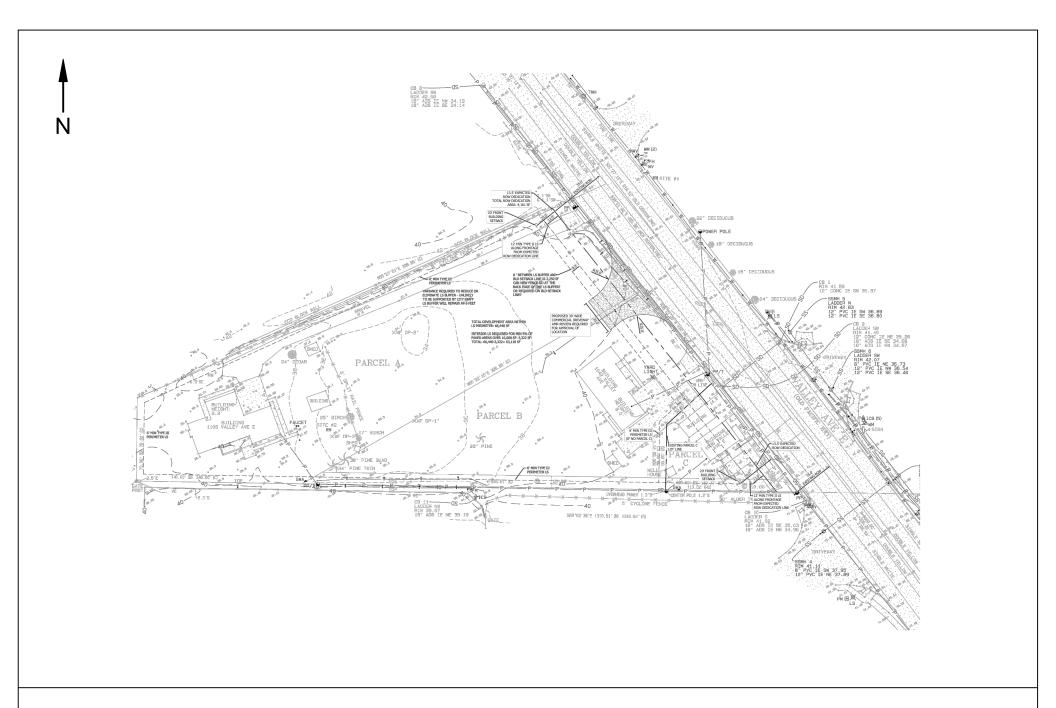
1.20

1.45

2.65

Land Use	Size -	PM	Peak-Hour Tr	ips
Land OSE	Size -	Inbound	Outbound	Total
<u>Proposed:</u> Truck and Trailer Parking	1.78-acres	2	3	5
Existing: Single-Family	2 D.U.'s	-1	-1	-2
	Net New Trips	1	2	3

As shown in Tables 1 and 2, sample site data extrapolated to the proposed development is anticipated to yield 5 total PM peak hour trips generated on-site (or 3 net new trips). Figure 2 illustrates the project's anticipated PM peak hour trip distribution and assignment. Included are total anticipated project-generated PM peak hour trips (2 in / 3 out).



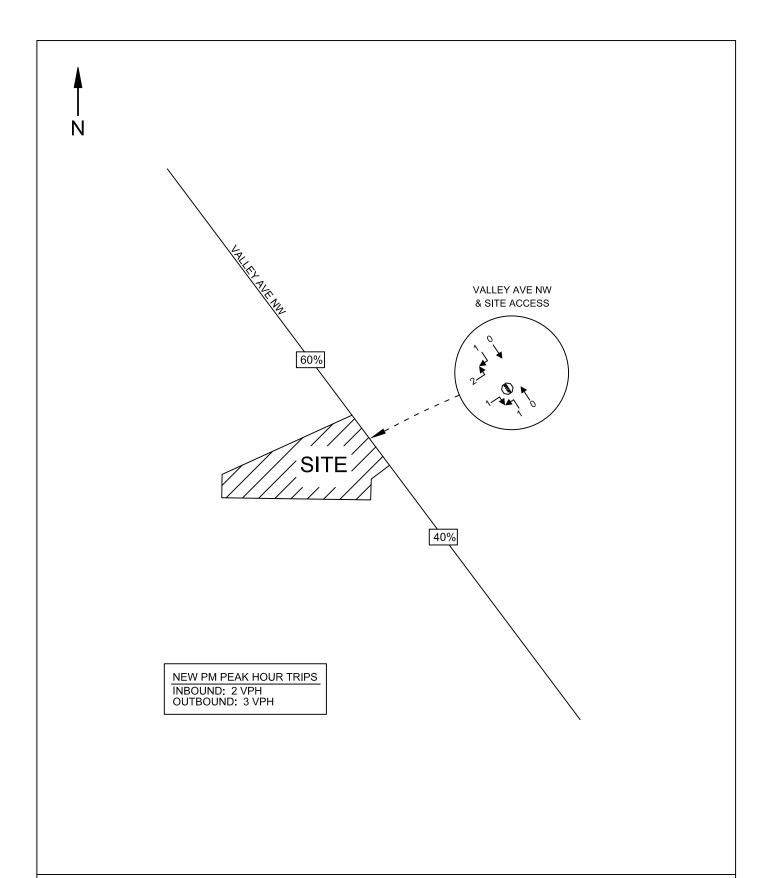
HEATH & ASSOCIATES

TRAFFIC AND CIVIL ENGINEERING

**VALLEY AVENUE YARD** 

SITE PLAN FIGURE 1

x 98371 Heath & Associates



### **HEATH & ASSOCIATES**

**VALLEY AVENUE YARD** 

TRAFFIC AND CIVIL ENGINEERING

PM PEAK HOUR TRIP DISTRIBUTION & ASSIGNMENT FIGURE 2

## **Single-Family Detached Housing**

(210)

Vehicle Trip Ends vs: **Dwelling Units** 

On a: Weekday

Setting/Location: General Urban/Suburban

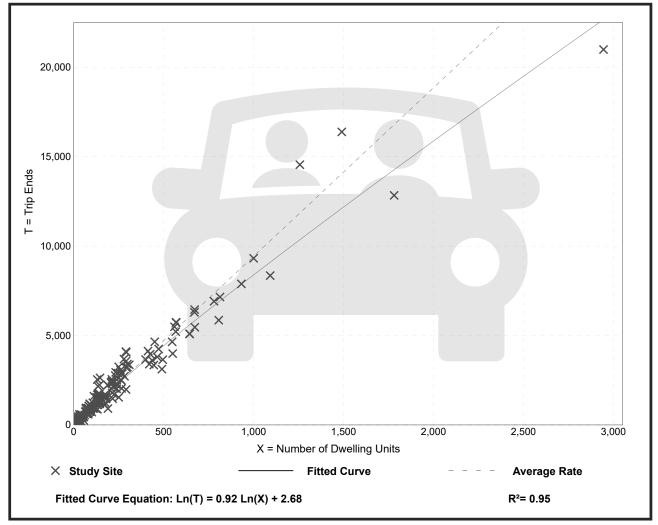
Number of Studies: 174 Avg. Num. of Dwelling Units: 246

Directional Distribution: 50% entering, 50% exiting

#### **Vehicle Trip Generation per Dwelling Unit**

Average Rate	Range of Rates	Standard Deviation
9.43	4.45 - 22.61	2.13

#### **Data Plot and Equation**



Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

## **Single-Family Detached Housing**

(210)

Vehicle Trip Ends vs: **Dwelling Units** 

On a: Weekday,

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

Setting/Location: General Urban/Suburban

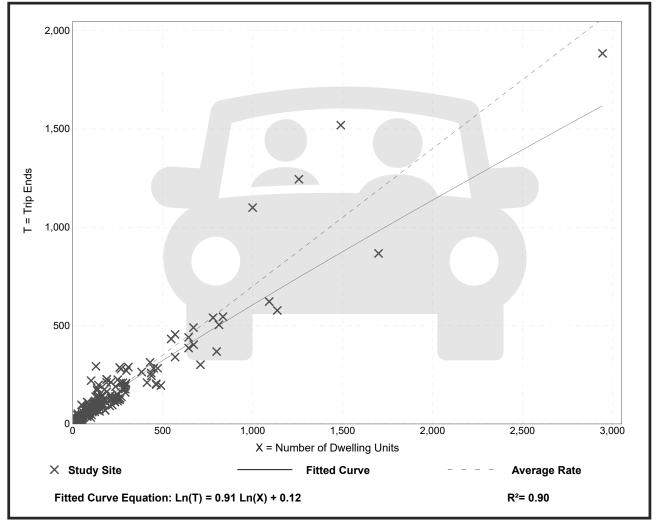
Number of Studies: 192 Avg. Num. of Dwelling Units: 226

> Directional Distribution: 26% entering, 74% exiting

#### **Vehicle Trip Generation per Dwelling Unit**

-	<u> </u>	
Average Rate	Range of Rates	Standard Deviation
0.70	0.27 - 2.27	0.24

### **Data Plot and Equation**



Trip Gen Manual, 11th Edition

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# **Single-Family Detached Housing**

(210)

Vehicle Trip Ends vs: **Dwelling Units** 

On a: Weekday,

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

Setting/Location: General Urban/Suburban

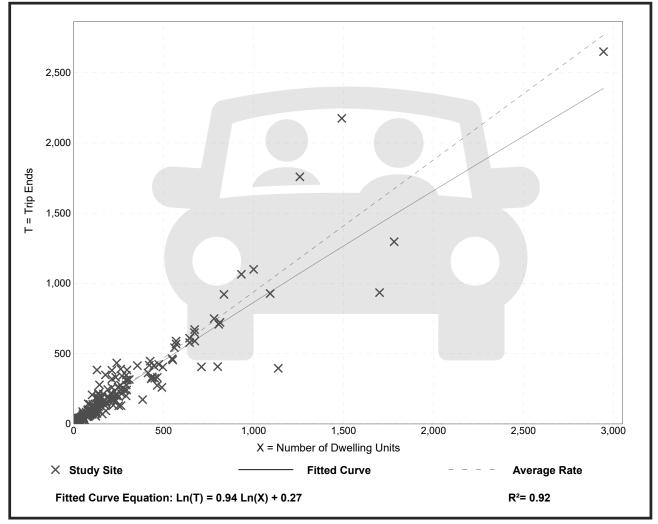
Number of Studies: 208 Avg. Num. of Dwelling Units: 248

Directional Distribution: 63% entering, 37% exiting

#### **Vehicle Trip Generation per Dwelling Unit**

Average Rate	Range of Rates	Standard Deviation
0.94	0.35 - 2.98	0.31

### **Data Plot and Equation**



Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

11/30/21, 9:28 AM **PublicGIS** 



## **Heath & Associates**

PO Box 397 Puyallup, WA 98371

> File Name : 4771b Site Code : 00004771 Start Date : 11/17/2021

Page No : 1

Groups Printed- Passenger + - Heavy

								exander Av		
		Storage A			xander Av		Al			
	S	outhboun		1	Westbound					
Start Time	Right	Left	App. Total	Right	Thru	App. Total	Thru	Left	App. Total	Int. Total
04:00 PM	0	0	0	1	0	1	0	0	0	1
04:15 PM	0	1	1	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	1	1	1
04:45 PM	1	0	1	2	0	2	0	0	0	3
Total	1	1	2	3	0	3	0	1	1	6
05:00 PM	0	2	2	2	0	2	0	0	0	4
05:15 PM	0	2	2	0	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	1	1	1
05:45 PM	0	0	0	1	0	1	0	0	0	1
Total	0	4	4	3	0	3	0	1	1	8
Grand Total	1	5	6	6	0	6	0	2	2	14
Apprch %	16.7	83.3		100	0		0	100		
Total %	7.1	35.7	42.9	42.9	0	42.9	0	14.3	14.3	
Passenger +	0	1	1	1	0	1	0	0	0	2
% Passenger +	0	20	16.7	16.7	0	16.7	0	0	0	14.3
Heavy	1	4	5	5	0	5	0	2	2	12
% Heavy	100	80	83.3	83.3	0	83.3	0	100	100	85.7

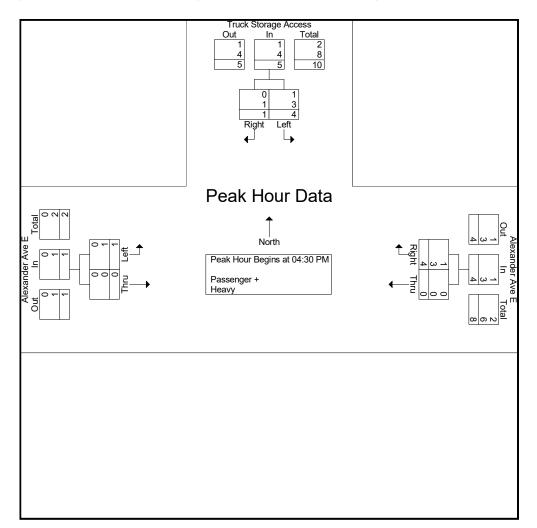
## **Heath & Associates**

PO Box 397 Puyallup, WA 98371

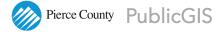
> File Name : 4771b Site Code : 00004771 Start Date : 11/17/2021

Page No : 2

	Trucl	k Storage A	ccess	Al	exander Av	e E	Al			
		Southbound	i		Westbound	t				
Start Time	Right	Left	App. Total	Right	Thru	App. Total	Thru	Left	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 PN	/I to 05:45 P	M - Peak 1 of	1						
Peak Hour for Entire Ir	tersection B	egins at 04:	30 PM							
04:30 PM	0	0	0	0	0	0	0	1	1	1
04:45 PM	1	0	1	2	0	2	0	0	0	3
05:00 PM	0	2	2	2	0	2	0	0	0	4
05:15 PM	0	2	2	0	0	0	0	0	0	2
Total Volume	1	4	5	4	0	4	0	1	1	10
% App. Total	20	80		100	0		0	100		
PHF	.250	.500	.625	.500	.000	.500	.000	.250	.250	.625
Passenger +	0	1	1	1	0	1	0	0	0	2
% Passenger +	0	25.0	20.0	25.0	0	25.0	0	0	0	20.0
Heavy	1	3	4	3	0	3	0	1	1	8
% Heavy	100	75.0	80.0	75.0	0	75.0	0	100	100	80.0



4/16/2019 **PublicGIS** 



Download Data Help

Study Sites

Find address or place





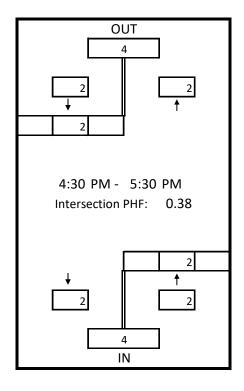
#### Heath & Associates, Inc. 2214 Tacoma Road Puyallup, WA 98371

**Project Name:** Milton Truck Storage

Intersection: 263 Roy Ave Date of Count: 4/23/2019
Jurisdiction: City of Pacific Project Number: 4273

Time	Time			Soutbound OUT			Westbound				Northbound IN				Eastbound			
Period	HV	R	T	L	HV	R	Т	L	HV	R	Т	L	HV	R	Т	L	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:30 PM	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	
4:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:15 PM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2	
5:30 PM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	1	0	3	0	0	0	0	0	1	0	2	0	0	0	0	0	5	

Peak Hour	4:30	PM	to	5:30	PM												Total
Peak Total	0	0	2	0	0	0	0	0	1	0	2	0	0	0	0	0	4
Heavy Veh.		33.	.3%			0.0	0%			50.	0%			0.0	0%		
PHF		0.	50			0.	00			0.	50			0.	00		

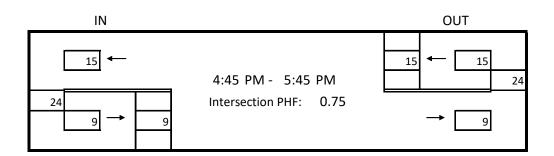


#### Heath & Associates, Inc. 2214 Tacoma Road Puyallup, WA 98371

**Project Name:** Milton Truck Storage

Intersection: 893 Valentine Ave Date of Count: 4/24/2019
Jurisdiction: City of Pacific Project Number: 4273

Janisaiction	•	City C	n i aci	110								i i Ojc	ct ivaii	iibci.	7273		
Time		Soutk	ound			West	bound		Northbound				Eastbound				
Period					OUT									I	N		
Periou	HV	R	Т	L	HV	R	Т	L	HV	R	Т	L	HV	R	Т	L	Total
4:00 PM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	2
4:15 PM	0	0	0	0	2	0	4	0	0	0	0	0	2	0	2	0	6
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2
4:45 PM	0	0	0	0	0	0	1	0	0	0	0	0	1	0	4	0	5
5:00 PM	0	0	0	0	0	0	2	0	0	0	0	0	1	0	2	0	4
5:15 PM	0	0	0	0	3	0	7	0	0	0	0	0	0	0	1	0	8
5:30 PM	0	0	0	0	0	0	5	0	0	0	0	0	2	0	2	0	7
5:45 PM	1	0	0	0	1	0	3	0	0	0	0	0	0	0	2	0	5
Total	1	0	0	0	7	0	23	0	0	0	0	0	7	0	16	0	39
Peak Hour	4:45	PM	to	5:45	PM												Total
Peak Total	0	0	0	0	3	0	15	0	0	0	0	0	4	0	9	0	24
Heavy Veh.		0.0	0%			30	.4%		0.0%				43.8%				
PHF		0.	00			0.	54			0.	00			0.56			



#### Heath & Associates, Inc. 2214 Tacoma Road Puyallup, WA 98371

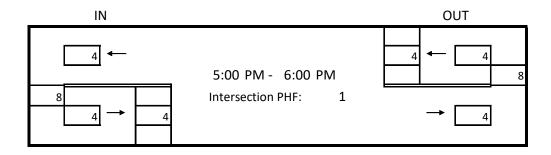
**Project Name:** Milton Truck Storage

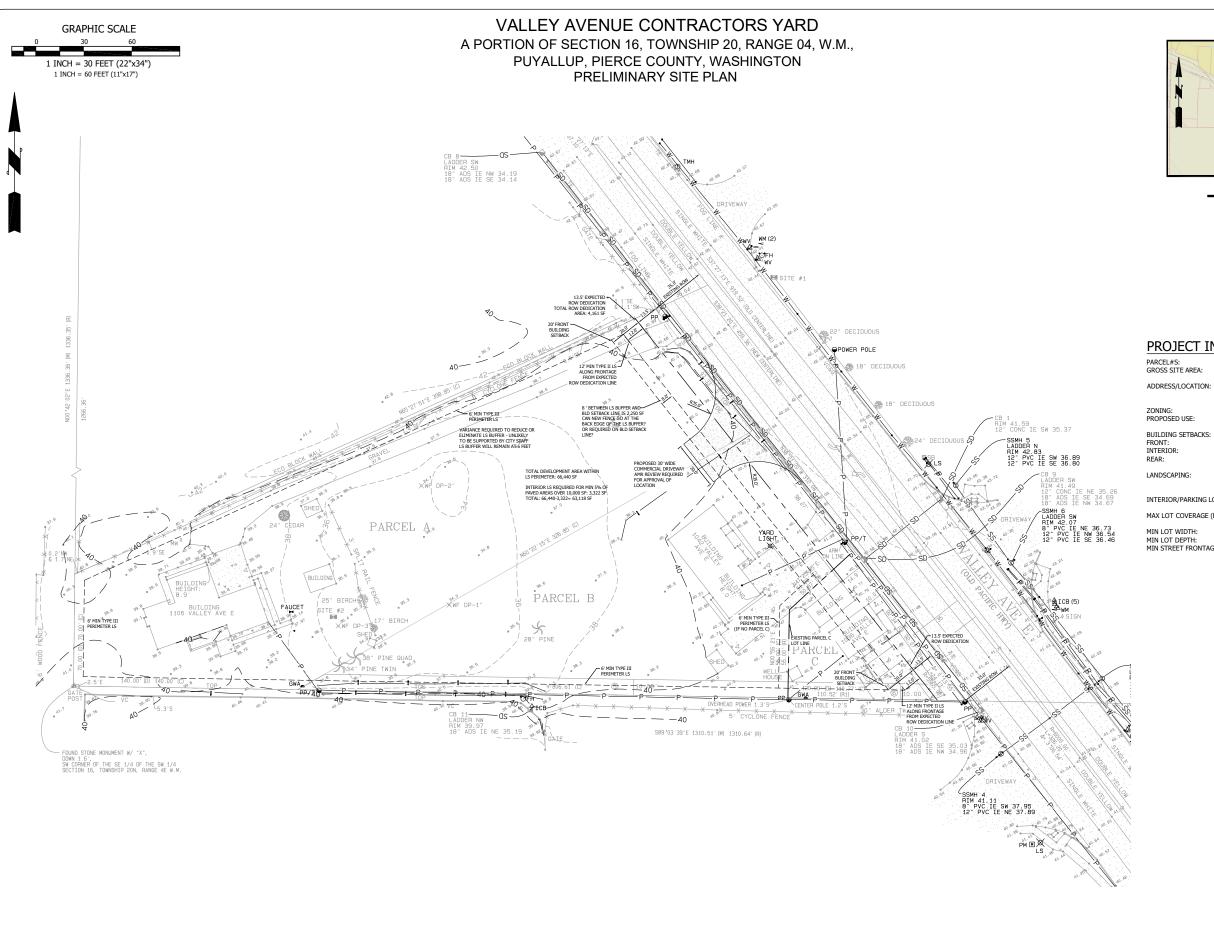
Intersection: 1075 Valentine Ave Date of Count: 4/24/2019

Jurisdiction: City of Pacific Project Number: 4273

Time Period		Soutk	ound		Westbound				Northbound					]			
					OUT												
	HV	R	Т	L	HV	R	Т	L	HV	R	Т	L	HV	R	Т	L	Total
4:00 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2
5:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
5:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
5:45 PM	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total	1	0	0	0	0	0	8	0	0	0	0	0	1	0	5	0	13
1 Otal			<u> </u>	1 0			L °			l o	U		1 +			U	1 13
Peak Hour	5:00	PM	to	6:00	PM												Total
Poak Total	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0

Peak Hour	5:00	PM	to	6:00	PM												Total
Peak Total	1	0	0	0	0	0	4	0	0	0	0	0	1	0	4	0	8
Heavy Veh.	0.0%				0.0%				0.0%				20.0%				
PHF	0.00				0.50				0.00				0.50				







VICINITY MAP

#### PROJECT INFORMATION

PARCEL#S: GROSS SITE AREA: 0420163041, 0420163040, 0420163042 79,952 SF OR 1.835 ACRES

ADDRESS/LOCATION: 1042, 1106 & 1036 VALLEY AVENUE NW PUYALLUP, WA 98371

ML - LIMITED MANUFACTURING CONTRACTOR YARD PAVED OUTDOOR STORAGE

12 FT FRONT - FROM MAJOR ARTERIAL 6' PERIMETER LS. FENCING/SCREENING TO BE PROVIDED AROUND PERIMETER OF LOT. MIN 5% OF PAVED AREAS (OVER 10,000 SF) INTERIOR/PARKING LOT LS:

MAX LOT COVERAGE (BLD):

MIN LOT WIDTH: MIN LOT DEPTH: MIN STREET FRONTAGE: 75 FT

PRELIMINARY SITE PLAN

DESIGNER: PH ENGINEER: BA DRAWN: PH S 16 T 20 N R 04E WM DATE: 2022-03-01 REVISED: PROJECT: 21-247

DWG NAME: 21-247-A SHEET **PRELIM** 

15

1 OF 1 Heath & Associates