

June 23, 2022

James and Cecilia Herbert 1994 Revocable Trust 4750 S. Courtland Drive, Jackson, WY 83001 (415) 296-3776

**RE: Traffic Impact Study, Proposed** *JC Ranches Subdivision* 

Dear Mr. and Ms. Herbert:

This memorandum describes the projected effects of traffic generated by and distributed from the "J.C. Ranches Subdivision," proposed on the 80-acre parcel # RP05N45E101000, in SEC 10 TWP 5N RNG 45E in Teton County, Idaho.

Based on our analyses, the proposed 26-unit subdivision has no significant impacts on either County Road W 4000 N at the proposed entrance roads, or at the W 4000 N intersection at Idaho State Highway 33.

Capacity analysis suggests that -<u>if current background traffic growth rates continue</u> - the level of service at the W 4000 N intersection will degrade from level of service "B" to "D" over the coming 20 years. This is not due to the JC Ranches Subdivision alone, but to the extensive growth and development throughout Teton County, Idaho. As with all forecasts, this may or may not occur. For this reason, we recommend that area road agencies continue to monitor the intersection for compliance with MUTCD signal warrants.

The above is based on my opinion and my estimate of growth rate for the next 20 years. The estimate may or may not hold, it is an estimate based on my experience.

If there are any questions regarding this traffic impact study, please do not hesitate to contact me.

Sincerely,

Edmund Waddell, Community & Transportation Planner

Y2 Consultants

**Atch: Traffic Analysis Memorandum and Appendices** 

#### **Property Description:**

- **Size:** The parcel is ½-mile east-west by ¼-mile north-south, encompassing about 80 Acres.
- **By Township and Range:** The property is the north ½ of the NE ¼ of Section 10, Township 5 North Range 45 East, in Teton County, Idaho.
- **Physical Description:** The property is grass/rangeland, ranging in elevation from about 6,103 feet in the southwest corner to about 6,135 feet in the northeast corner. A surface drain crosses from northeast to southwest across the parcel.

### **Project Location:**

- **By Road:** The proposed *J. C. Ranches Subdivision* is located on the south side of Teton County Road W 4000 N, ½ mile west of Idaho State Highway 33, and four miles north of downtown Driggs, Idaho.
- By Lat-Long: Latitude: North 43° 46′ 47.37″, Longitude: West 111° 07′ 37.16″

#### **Project Description:**

• The proposed subdivision consists of 26 single-family residential lots, with eight west of the diagonal drainage channel and eighteen east of the drainage channel. A street is proposed to cross over the channel.



#### **Public Road Access:**

Two access roads will connect residences to the south side of Teton County Road W 4000 N.

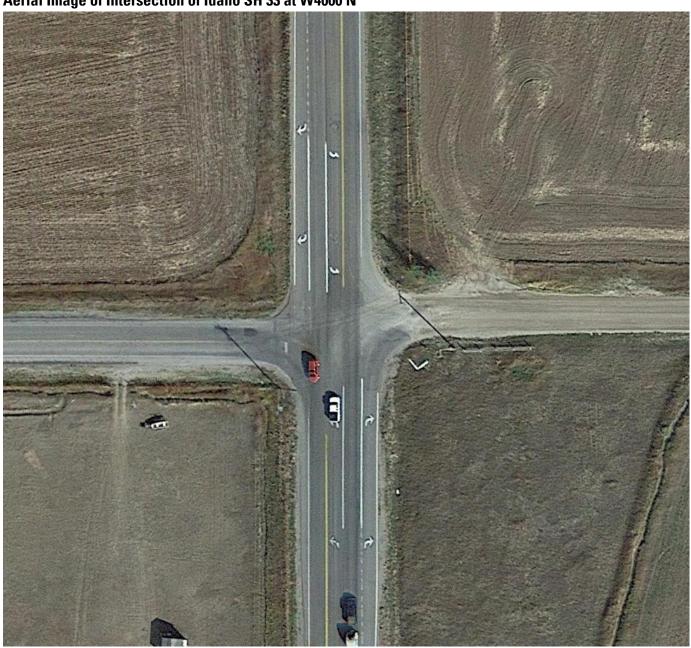
- On the west side of the subdivision, *Vallejo Road* will provide access to eight lots.
- On the east, Embarcadero Street will provide access to eighteen lots.

#### **Existing Road Network:**

 Teton County Road W 4000 N is an asphalt road with two 11-foot travel lanes and four-foot shoulders. W 4000 N is under STOP control at the SH 33 intersection.

- Idaho SH 33 is an asphalt road with two 12-foot travel lanes and 4-foot shoulders. Approaching W 4000 N, State Highway 33 flares to thirty-six feet wide, with left-turn, through and right-turn lanes. Right turn bays are 250 feet long, and left turn bays are five hundred feet long.
- West of the subdivision, the closest north-south road is Teton County Road N 2000 W. N 2000 W is a gravel road nominally twenty-one feet wide without shoulders.

Aerial Image of Intersection of Idaho SH 33 at W4000 N



## **Existing Traffic Volumes (2022):**

- Current average daily traffic (ADT) on Idaho State Highway SH 33 is about 6200 vehicles per day.
- The west leg of W 4000 N carries approximately 1100 ADT, with about 200 ADT on the opposite (east) leg.

<del></del> -			ırn Mov	/ement	Counts:	Idaho S	tate Hig	hway 33	3 at W 4	.000 N			3	
D				, cilicit	Courits.	- idaiio s	Tate ing	, iiii ay 3	J 41 11 7	000			1	1
Project # 22037		Seasonal Adj	. Factor											
5/10-11/2022					145									
Estimated 2 Way ADT	_	874						6660		_	5842			
AM Peak Traffic		tbound W 400			stbound W 400			rthbound HWY			uthbound HW\		Total	PHF
Time	LEFT	THROUGH	RIGHT	LEFT	THROUGH	RIGHT	LEFT	THROUGH	RIGHT	LEFT	THROUGH	RIGHT		0.936
06:30 - 06:45			13	1			1	10			65		90	
06:45 - 07:00			19		1		_	14		1	69		104	
07:00 - 07:15	1		7				2	28			74		112	
07:15 - 07:30			13	1			1	35	_	1	59		110	416
07:30 -07:45	1		9	1			3	43	1		89		147	473
07:45 - 08:00			21	5		3	1	36	1	1	109		177	546
08:00 - 08:15	1		20			1	6	55	1	1	91		176	610
08:15 - 08:30	1		12			3	11	57	3	1	74	1	163	663
08:30 - 08:45	1		8	_		3	5	37	1	2	61	1	119	635
08:45 - 09:00	1	1	9	3			6	63			75		158	616
TOTAL	6	1	131	11	1	10	36	378	7	7	766	2	1162	
	4.3%	0.7%	94.9%	50.0%	4.5%	45.5%	8.6%	89.8%	1.7%	0.9%	98.8%	0.3%		
AM PEAK VOLUMES	3	-	62	6	-	7	21	191	6	3	363	1		
SEASONALLY ADJUSTED	-	-	-	-	-	-	-	-	-	-	-	-		
5/10-11/2022														
Midday Traffic	East	tbound W 400	00 N	We	stbound W 400	00 N	No	rthbound HWY	/ 33	So	uthbound HW\	33	Total	PHF
Time	LEFT	THROUGH	RIGHT	LEFT	THROUGH	RIGHT	LEFT	THROUGH	RIGHT	LEFT	THROUGH	RIGHT		#DIV/0!
11:00 - 11:15													0	
11:15 - 11;30													0	
11:30 - 11:45													0	
11:45 - 12:00													0	0
12:00 - 12:15													0	0
12:15 - 12:30													0	0
12:30 - 12:45													0	0
12:45 - 13:00													0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
MIDDAY PEAK VOLUMES	-	-	-	-	-	-	-	-	-	-	-	-		
SEASONALLY ADJUSTED	-	-	-	-	-	-	-	-	-	-	-	-		
5/10-11/2022														
PM Peak Traffic	East	tbound W 400	00 N	We	stbound W 400	00 N	No	rthbound HWY	7 33	So	uthbound HW\	33	Total	PHF
Time	LEFT	THROUGH	RIGHT	LEFT	THROUGH	RIGHT	LEFT	THROUGH	RIGHT	LEFT	THROUGH	RIGHT		0.956
15:30-15:45			6	2			10	74	3	3	37	1	136	
15:45-16:00			8	1		2	10	91	1		43	1	157	
16:00-16:15			7	1			9	60	1		43	1	122	
16:15-16:30	1		5	1			15	60			49		131	546
16:30-16:45			9	1			8	75			46	2	141	551
16:45-17:00			5			1	11	90			67		174	568
17:00-17:15	2		6				15	95	1		46	1	166	612
17:15-17:30			11				15	100	1		50		177	658
17:30-17:45			9				11	90	1	1	48		160	677
17:45-18:00	1		6	1			9	87			49	2	155	658
18:00-18:15	-		5	_			9	84	2	1	46	4	150	642
18:15-18:30			5	1	1		14	80	1		40		141	606
18:30-18:45			3	1	1		7	66	1	2	45	0	125	571
18:45-19:00			5		1		10	47	2		32	-	96	512
TOTAL	4	0	90	9	0	3	153	1099	14	6	641	12	1616	
									1.1%	0.9%	97.3%			1
	4.3%	0.0%	95.7%	75.0%	0.0%	1 25.0%	12.1%	I 86.8%	1.1%	0.9%		1.8%		
	4.3%			75.0% 0		25.0% 1		86.8% 375				1.8%		
PM PEAK VOLUMES SEASONALLY ADJUSTED	4.3%	0.0% 0	95.7% 31	75.0% 0	0.0% 0	25.0% 1	12.1% <b>52</b>	375	3	1	211	1.8%		

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### **Background Traffic Growth:**

- Traffic recorded on State Highway 33 near Driggs has been growing at about 3% annually.
- Adjacent roads are being developed with low density rural residential and are estimated to grow at 4% annually.
- These rates are typical in a growing suburban residential area. We have projected that these rates will continue, causing the total intersection traffic volume to double by 2042. (See Appendix A for intersection turn movements.)

## **Existing Land Use:**

The existing 80-acre parcel is vacant land with a drain running NE-SW across the property.

## **Proposed Land Use:**

• The proposed land use is a 26-unit single family residential subdivision.

## **Trip Generation Estimate:**

The Institute of Transportation Engineers' (ITE) *Trip Generation Manual* for land use 210 (Single Family Homes) estimates each dwelling unit will generate 9.52 vehicle trips per day. The proposed 26-unit single family residential subdivision will therefore generate approximately 247 vehicle trips per day (124 entering and 124 exiting) with the following daily and hourly directional volumes:

LAND USE 210 SF Homes	DAILY TRIP ENDS	AM	AM INBOUND	AM OUTBOUND	PM	PM INBOUND	PM OUTBOUND
ITE Factor	9.52 per du	.75 per du	25%	75%	1.00/du	63%	37%
8 Lots via Vallejo Rd.	76	6	2	5	8	5	3
18 Lots via Embarcadero St.	171	14	3	10	18	11	7
TOTAL	247	20	5	15	26	16	10

## **Trip Distribution Calculation:**

#### Access Street Volumes:

All subdivision traffic will enter the road network via County Road W 4000 N. Eight lots will enter W 4000 N via the west entry (Vallejo Road). Eighteen lots will enter via the east entry (Embarcadero Street). Total subdivision traffic will split about 31% / 69% between these two access points.

#### • Network Trip Distribution:

With no non-residential destinations to the west, all traffic is assumed to interact to the east on W 4000 N. During peak hours, 5.1% of existing CR N 4000 W traffic interacts with north SH 33, while 94.9% interacts to/from the south on SH 33. Traffic from the new subdivision is expected to have the same 5%/95% directional split at the SH 33 intersection.

#### **Mode Choice:**

Because of the distance to area destinations and lack of public transit, all trips are assumed to take place by private vehicle.

#### **Traffic Assignment:**

Eight lots abut Vallejo Road and eighteen abut Embarcadero Street. We assume these lots will use these adjacent streets to reach W 4000 S.

Based on field-observed turn movement percentages at the SH 33 W 4000 N intersection, site generated traffic volumes were assigned to nearby roads as follows:

TRAFFIC ASSIGNMENT							
DAILY TRIP ENDS AM IN AM OUT PM IN PM OUT							
		247	5	15	16	10	
Assigned Route	Percentage						
Vallejo Road	31%	76	2	5	5	3	
Embarcadero Street	69%	171	3	10	11	7	
South SH 33	94.9%	235	5	14	15	9	
North SH 33	5.1%	12	0	1	1	1	
East W 4000 N	0%	0	0	0	0	0	

Turn movement diagrams in Appendix A illustrate the effect of these induced volumes on W4000N and on the W4000N / SH 33 intersection.

#### **Traffic Forecast Scenarios:**

- Year 2022 "No-Build traffic at study intersections was counted May 10-11, 2022
- Year 2022 "Build" traffic at study intersections was estimated by adding site-generated traffic to 2022 nobuild traffic volumes.
- Year 2042 "No-Build" traffic was estimated using growth rates of 3% on SH 33 and 2% on W 4000 N compounded for a period of 20 years.
- Year 2042 "Build" traffic at study intersections was estimated by adding site-generated traffic to 2042 nobuild traffic volumes.
- Resulting traffic forecasts are depicted in diagrams in Appendix A.

## **Capacity Analysis:**

- The Highway Capacity Software (HCS) was used to estimate the capacity of the STOP-controlled intersections on W 4000 N at Idaho State Highway 33, and future operations at the intersections of W 4000 N at Vallejo Road and Embarcadero Street, before and after construction.
- Both intersections of W 4000 N at Vallejo Road and Embarcadero Street operate at Level of Service A in 2022 and 2042 after the subdivision is constructed.
- For the AM Peak "No-Build" scenario, the eastbound approach to the W 4000 N / SH 33 intersection operates at LOS "D" in 2042 (26.0 seconds of delay) due to the heavy projected southbound through movement reducing available gaps. Construction of the proposed subdivision will increase delay for the eastbound approach by 1.7 seconds to 27.7 seconds delay per vehicle, remaining at LOS "D."
- The following table describes capacity analysis data:

Intersection / Location	Traffic Scenario	Level of Service	Seconds of Delay on Minor Road
	2022 AM Peak No-Build	А	NA
	2022 AM Peak Build	А	8.7
	2042 AM Peak No-Build	А	NA
W 4000 N at Vallejo Road	2042 AM Peak Build	А	9.1
	2022 PM Peak No-Build	А	NA
	2022 PM Peak Build	А	8.5
	2042 PM Peak No Build	А	NA
	2042 PM Peak Build	А	8.7
	2022 AM Peak No-Build	А	NA
	2022 AM Peak Build	А	8.7
W 4000 N at Embarcadero	2042 AM Peak No-Build	А	NA
Street	2042 AM Peak Build	А	9.1
Sueet	2022 PM Peak No-Build	А	NA
	2022 PM Peak Build	А	8.5
	2042 PM Peak No Build	А	NA
	2042 PM Peak Build	А	8.8
	2022 AM Peak No-Build	B/B	11.3 (EB) / 12.6 (WB)
	2022 AM Peak Build	B/B	11.5 (EB) / 13.0 (WB)
W 4000 N at Idaho State	2042 AM Peak No-Build	D/B	26.0 (EB) / 14.7 (WB)
	2042 AM Peak Build	D/B	27.7 (EB) / 15.1 (WB)
Highway 33	2022 PM Peak No-Build	B/B	10.0 (EB) / 10.5 (WB)
	2022 PM Peak Build	B/B	10.2 (EB) / 10.5 (WB)
	2042 PM Peak No Build	C / B	22.6 (EB) / 13.5 (WB)
	2042 PM Peak Build	C / B	23.4 (EB) / 13.5 (WB)

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#### **Conclusions:**

- Construction of the JC Ranches Subdivision will not impact mainline operations on W 4000 N. New approach street intersections will operate at LOS "A" at all times.
- 2022 AM and PM peak hour level of service at W 400 N and SH 33 remains at LOS "B" before and after construction of the subdivision.
- In 2042, <u>if traffic continues to grow at current rates</u>, the intersection of W 4000 N at SH 33 will operate at LOS "D" during the AM Peak hour. LOS "D" or better is considered acceptable for a 20-year time horizon.
- Construction of the proposed JC Ranches Subdivision will increase average AM Peak Hour delay for the
  eastbound approach to W 4000 N / SH 33 by 1.7 seconds per vehicle (from 26.0 to 27.7 seconds of delay
  per vehicle). Level of service therefore remains at "D" with or without the subdivision.
- The above items are based on my professional opinion and estimate of local traffic growth rates for the next 20 years. As with any forecast, the estimated traffic may or may not hold; it is just an estimate.

#### **Recommendations:**

- 1. No road improvements are necessary to accommodate the JC Ranches subdivision.
- 2. Road agencies should continue to monitor performance of the W 4000 N intersection at Idaho SH 33. If delays increase significantly, right-turn bays may be an appropriate consideration.
- 3. If-and-when signal warrants are met, road agencies should evaluate constructing either a signal or roundabout at the W 4000 N intersection at Idaho SH 33.

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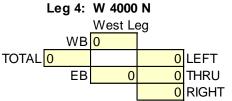
## **APPENDIX A: INTERSECTION TURN MOVEMENT FORECASTS**

## Vallejo Road at W 4000 N

### **Crossroad Diagram:**

**AM Peak Site-Generated Traffic** 

Leg 1: Vallejo Road



Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 0 2 WB

LEFT 2 7 TOTAL

5 EB

Leg 3: Vallejo Road

South Leg

LEFT THRU RIGHT

0 0 5

2 5

SB 7 NB

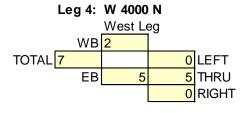
TOTAL

### Embarcadero Street at W 4000 N

### **Crossroad Diagram:**

**AM Peak Site-Generated Traffic** 

Leg 1: Embarcadero Street



Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 2 5 WB

LEFT 3 20 TOTAL

Leg 3: Embarcadero Street

South Leg

LEFT THRU RIGHT

0 0 10

3 10

SB 13 NB

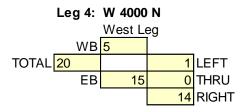
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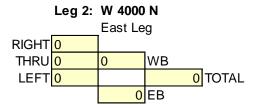
## State Highway 33 at W 4000 N

### **Crossroad Diagram:**

**AM Peak Site-Generated Traffic** 

Leg 1: State Highway 33





Leg 3: State Highway 33

	South Leg					
	LEFT THRU RIGHT					
	5	0	0			
14		5				
SB	19	NB	-			
	TOTAL					

### Idaho SH 33 at W 4000 N

## Crossroad Diagram: 2022 AM PEAK COUNT

Leg 1: Idaho SH 33

North Leg

			TOTAL	_
		SB	568	NB
		367		201
	1	363	3	
,	RIGHT	THRU	LEFT	•

Leg 4: W 4000 N

West Leg

WB 22

TOTAL 87 3 LEFT

EB 65 0 THRU

62 RIGHT

Leg 2: W 4000 N

East Leg

RIGHT 7

THRU 0 13 WB

LEFT 6 22 TOTAL

9 EB

Leg 3: Idaho SH 33

South Leg

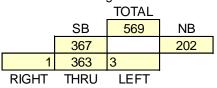
		LEFT	THRU	RIGHT	
_		21	191	6	
	431		218		•
	SB	649	NB	-	
		TOTAL	•		

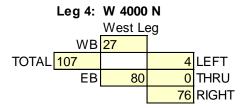
## State Highway 33 at W 4000 N

## Crossroad Diagram: 2022 AM PEAK BUILD TRAFFIC

Leg 1: State Highway 33

North Leg





Leg 2: W 4000 N

East Leg

RIGHT 7

THRU 0 13 WB

LEFT 6 22 TOTAL

9 EB

Leg 3: State Highway 33

South Leg

	LEFT	THRU	RIGHT
	26	191	6
445		223	
SB	668	NB	-
	TOTAL		

### Access Drives at W 4000 N

## Crossroad Diagram: 2022 AM PEAK NO-BUILD

Leg 1: Access Drives

Leg 4: W 4000 N

West Leg

WB 28

TOTAL 93 0 LEFT

EB 65 65 THRU

0 RIGHT

Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 28 28 WB

LEFT 0 93 TOTAL

65 EB

Leg 3: Access Drives

South Leg

LEFT THRU RIGHT

0 0 0

0 0

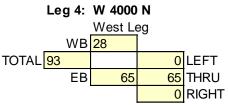
SB 0 NB

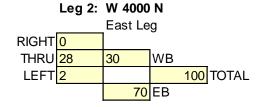
TOTAL

## Vallejo Road at W 4000 N

## Crossroad Diagram: 2022 AM PEAK BUILD TRAFFIC

Leg 1: Vallejo Road





Leg 3: Vallejo Road

South Leg

LEFT THRU RIGHT

0 0 5

2 5

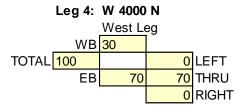
SB 7 NB

TOTAL

## Embarcadero Street at W 4000 N

# Crossroad Diagram: 2022 AM PEAK BUILD TRAFFIC

Leg 1: Embarcadero Street



Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 30 33 WB

LEFT 3 113 TOTAL

80 EB

Leg 3: Embarcadero Street

	South Leg					
	LEFT	LEFT THRU				
	0	0	10			
3		10				
SB	13	NB	-			
TOTAL						

## Idaho SH 33 at W 4000 N

## Crossroad Diagram: 2042 AM PEAK NO-BUILD

Leg 1: Idaho SH 33

North Leg

		0	
		TOTAL	-
_	SB	1069	NB
	663		406
9	641	14	
RIGHT	THRU	LEFT	-

Leg 4: W 4000 N

West Leg
WB 45

TOTAL 187 29 LEFT
EB 142 0 THRU
114 RIGHT

Leg 2: W 4000 N

		East Le	g		
RIGHT					
THRU	0	29	WB		
LEFT	4			47	TOTAL
		19	EB		

Leg 3: Idaho SH 33

South Leg

	CCGGT LC	9	
	LEFT	THRU	RIGHT
	36	352	5
758		394	
SB	1152	NB	_
	TOTAL		

## Idaho SH 33 at W 4000 N

## Crossroad Diagram: 2042 AM PEAK BUILD

Leg 1: Idaho SH 33

North Leg

			TOTAL	-
		SB	1070	NB
		663		407
	9	641	14	
•	RIGHT	THRU	LEFT	•

Leg 4: W 4000 N

g 4: W 4000 N Westled

		W CSt LC	-9	
	WB	50		
TOTAL	208		30	LEFT
	EB	158	0	THRU
			128	RIGHT

Leg 2: W 4000 N

East Leg

RIGHT	25		_		
THRU	0	29	WB		
LEFT	4			47	TOTAL
		19	EB		

Leg 3: Idaho SH 33

South Leg

	LEFT	THRU	RIGHT
	41	352	5
772		399	
SB	1171	NB	_
	TOTAL		

### Access Drives at W 4000 N

## Crossroad Diagram: 2042 AM PEAK NO-BUILD

Leg 1: Access Drives

Leg 4: W 4000 N

West Leg

WB 61

TOTAL 204 0 LEFT

EB 142 142 THRU

0 RIGHT

Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 61 61 WB

LEFT 0 204 TOTAL

142 EB

Leg 3: Access Drives

South Leg

LEFT THRU RIGHT

0 0 0

0 0

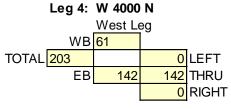
SB 0 NB

TOTAL

## Vallejo Road at W 4000 N

## Crossroad Diagram: 2042 AM PEAK BUILD TRAFFIC

Leg 1: Vallejo Road



Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 61 63 WB

LEFT 2 210 TOTAL

147 EB

Leg 3: Vallejo Road

South Leg

LEFT THRU RIGHT

0 0 5

2 5

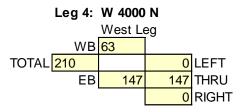
SB 7 NB

TOTAL

## Embarcadero Street at W 4000 N

# Crossroad Diagram: 2042 AM PEAK BUILD TRAFFIC

Leg 1: Embarcadero Street



Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 63 66 WB

LEFT 3 223 TOTAL

157 EB

Leg 3: Embarcadero Street

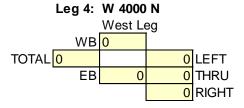
	South Leg		
	LEFT	RIGHT	
	0	0	10
3		10	
SB	13	NB	-
	TOTAL		

## Vallejo Road at W 4000 N

### **Crossroad Diagram:**

**PM Peak Site-Generated Traffic** 

Leg 1: Vallejo Road



Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 0 5 WB

LEFT 5 8 TOTAL

3 EB

Leg 3: Vallejo Road

South Leg

LEFT THRU RIGHT

0 0 3

5 3

SB 8 NB

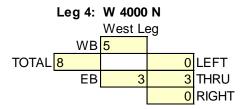
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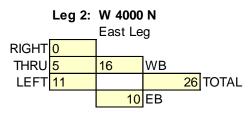
### Embarcadero Street at W 4000 N

### **Crossroad Diagram:**

**PM Peak Site-Generated Traffic** 

Leg 1: Embarcadero Street





Leg 3: Embarcadero Street

South Leg

LEFT THRU RIGHT

0 0 7

11 7

SB 18 NB

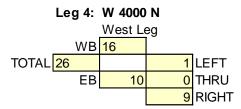
TOTAL

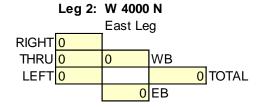
## State Highway 33 at W 4000 N

### **Crossroad Diagram:**

**PM Peak Site-Generated Traffic** 

Leg 1: State Highway 33





Leg 3: State Highway 33

- 3		J - 7 -	_
	South Le	g	
	LEFT	THRU	RIGHT
	15	0	0
9		15	
SB	24	NB	-
	TOTAL		

### Idaho SH 33 at W 4000 N

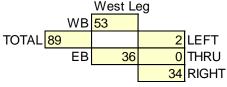
### **Crossroad Diagram:** 2022 PM Peak Count

Leg 1: Idaho SH 33

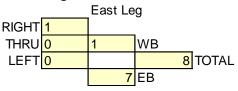
North Leg

	TOTAL		
	SB	591	NB
	213		378
1	211	1	
RIGHT	THRU	LEFT	•

Leg 4: W 4000 N West Leg



Leg 2: W 4000 N



Leg 3: Idaho SH 33

South Leg				
LEFT	THRU			
52	375			

	LEFT	THRU	RIGHT
	52	375	6
245		433	
SB	678	NB	_
	TOTAL	•	

#### Idaho SH 33 at W 4000 N

## **Crossroad Diagram:** 2022 PM PEAK BUILD TRAFFIC

Leg 1: Idaho SH 33

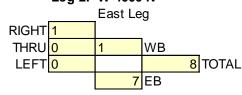
North Leg

	TOTAL		
	SB	593	NB
	214		379
2	211	1	
RIGHT	THRU	LEFT	·

Leg 4: W 4000 N

West Leg WB 69 TOTAL 115 3 LEFT 0 THRU EΒ 46 43 RIGHT

Leg 2: W 4000 N



Leg 3: Idaho SH 33

South Leg

	LEFT	THRU	RIGHT
	67	375	6
254		448	
SB	702	NB	-
	TOTAL		

## Access Drives at W 4000 N

## Crossroad Diagram: 2022 PM PEAK NO-BUILD

Leg 1: Access Drives

Leg 4: W 4000 N

West Leg

WB 53

TOTAL 89 0 LEFT

EB 36 36 THRU

0 RIGHT

Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 53 53 WB

LEFT 0 89 TOTAL

36 EB

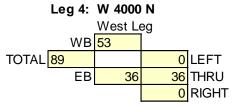
Leg 3: Access Drives
South Leg

	oodiii Log			
	LEFT	THRU	RIGHT	
	0	0	0	
0		0		
SB	0	NB	-	
	TOTAL	•		

## Vallejo Road at W 4000 N

## Crossroad Diagram: 2022 PM PEAK BUILD TRAFFIC

Leg 1: Vallejo Road



Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 53 58 WB

LEFT 5 97 TOTAL

39 EB

Leg 3: Vallejo Road

South Leg

LEFT THRU RIGHT

0 0 3

5 3

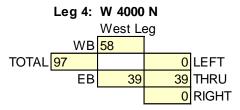
SB 8 NB

TOTAL

## Embarcadero Street at W 4000 N

# Crossroad Diagram: 2022 PM PEAK BUILD TRAFFIC

Leg 1: Embarcadero Street



Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 58 69 WB

LEFT 11 115 TOTAL

46 EB

Leg 3: Embarcadero Street

- 3			
	South Le	eg .	
	LEFT	THRU	RIGHT
	0	0	7
11		7	
SB	18	NB	-
	TOTAL		

## Idaho SH 33 at W 4000 N

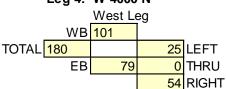
## Crossroad Diagram: 2042 PM Peak No Build

Leg 1: Idaho SH 33

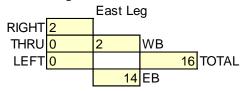
North Leg

			TOTAL	_
		SB	1099	NB
		385		715
	13	364	8	
,	RIGHT	THRU	LEFT	-

Leg 4: W 4000 N



Leg 2: W 4000 N



Leg 3: Idaho SH 33

South Leg

		0	
	LEFT	THRU	RIGHT
	88	688	6
418		782	
SB	1200	NB	-
	TOTAL		

## Idaho SH 33 at W 4000 N

## Crossroad Diagram: 2042 PM PEAK BUILD TRAFFIC

Leg 1: Idaho SH 33

North Leg

		TOTAL	
	SB	1102	NB
	386		716
14	364	8	
RIGHT	THRU	LEFT	=

Leg 4: W 4000 N

Westle

		West L	eg	
	WB	117		
TOTAL	206		26	LEFT
	EB	89	0	THRU
			63	RIGHT

Leg 2: W 4000 N

East Leg

RIGHT 2

THRU 0 2 WB

LEFT 0 16 TOTAL

14 EB

Leg 3: Idaho SH 33

South Lea

		9	
	LEFT	THRU	RIGHT
	103	688	6
427		797	
SB	1224	NB	-
	TOTAL		

### Access Drives at W 4000 N

## Crossroad Diagram: 2042 PM PEAK NO-BUILD

Leg 1: Access Drives

Leg 4: W 4000 N

West Leg

WB 116

TOTAL 195 0 LEFT

EB 79 79 THRU
0 RIGHT

Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 116 116 WB

LEFT 0 195 TOTAL

79 EB

Leg 3: Access Drives

South Leg

LEFT THRU RIGHT

0 0 0

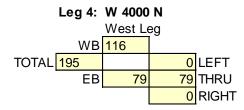
SB 0 NB

TOTAL

## Vallejo Road at W 4000 N

## Crossroad Diagram: 2042 PM PEAK BUILD TRAFFIC

Leg 1: Vallejo Road



Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 116 121 WB

LEFT 5 203 TOTAL

82 EB

Leg 3: Vallejo Road

South Leg

LEFT THRU RIGHT

0 0 3

5 3

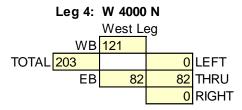
SB 8 NB

TOTAL

## Embarcadero Street at W 4000 N

# Crossroad Diagram: 2042 PM PEAK BUILD TRAFFIC

Leg 1: Embarcadero Street



Leg 2: W 4000 N

East Leg

RIGHT 0

THRU 121 132 WB

LEFT 11 221 TOTAL

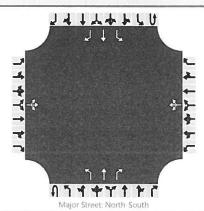
89 EB

Leg 3: Embarcadero Street

	South Le	<del>:</del> g	
	LEFT	THRU	RIGHT
	0	0	7
11		7	
SB	18	NB	-
	TOTAL		

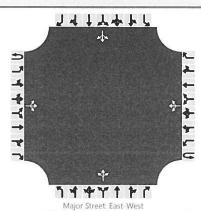
## **APPENDIX B: CAPACITY ANLYSES**

HCS 2010 Two-Way Stop-Control Report								
General Information		Site Information						
Analyst	Gary N Grigsby	Intersection	Idaho SH 33 & W 4000 N					
Agency/Co.		Jurisdiction						
Date Performed	5/17/2022	East/West Street	W 4000 N					
Analysis Year	2022	North/South Street	Idaho SH 33					
Time Analyzed	2022 AM Peak	Peak Hour Factor	0.94					
Intersection Orientation	North-South	Analysis Time Period (hrs)	1.00					
Project Description								



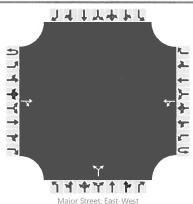
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	1	0	1	1	1
Configuration			LTR				LTR			L	Т	R		L	Т	R
Volume, V (veh/h)		3	0	62		6	0	7		21	191	6		3	363	1
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3				3		
Proportion Time Blocked																
Percent Grade (%)			0			(	0				and the same of th					
Right Turn Channelized		N	lo			N	lo			N	lo			N	10	
Median Type/Storage				Undiv	vided											
Critical and Follow-up H	eadway	<b>/</b> S														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.13	6.53	6.23		7.13	6.53	6.23		4.13		V B Shi	0.00	4.13		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23				2.23	1 23	
Delay, Queue Length, an	d Level	of S	ervice													
Flow Rate, v (veh/h)			69				13			22				3		
Capacity, c (veh/h)			638				485			1165	No. 10 Per		1	1354		
v/c Ratio			0.11				0.03			0.02				0.00		
95% Queue Length, Q <sub>95</sub> (veh)			0.4				0.1			0.1				0.0		
Control Delay (s/veh)			11.3				12.6			8.2				7.7		
Level of Service, LOS			В		11/2/3	5.3	В			А		1 3 3		А		
Approach Delay (s/veh)		1	1.3			12	2.6			0	.8			0	).1	
Approach LOS			В				В			in a fam.					THE RESERVE	

HCS 2010 Two-Way Stop-Control Report							
General Information		Site Information					
Analyst	Gary N Grigsby	Intersection	Access Dr @ W 4000 N				
Agency/Co.		Jurisdiction					
Date Performed	5/17/2022	East/West Street	W 4000 N				
Analysis Year	2022	North/South Street	Access Drive				
Time Analyzed	2022 AM Peak No Build	Peak Hour Factor	0.94				
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00				
Project Description							



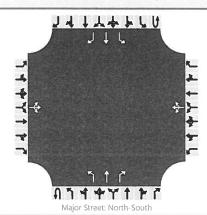
Vehicle Volumes and Adj		-				-			_			-			***************************************	
Approach		Eastb	ound			Westb	ound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume, V (veh/h)		0	65	0		0	28	0		0	0	0		0	0	0
Percent Heavy Vehicles (%)		3				3				3	3	3		3	3	3
Proportion Time Blocked															B C	
Percent Grade (%)											0				0	
Right Turn Channelized	le En	N	lo			N	0			1	No			١	ło	
Median Type/Storage			<del>/////////////////////////////////////</del>	Undi	vided								Permanent			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)																
Critical Headway (sec)											11.5					
Base Follow-Up Headway (sec)																
Follow-Up Headway (sec)			THE STATE OF						6919							
Delay, Queue Length, an	d Leve	of S	ervice										Amummuounu			
Flow Rate, v (veh/h)	T	0				0					0		<u> </u>		0	
Capacity, c (veh/h)		1574				1524					0				0	
v/c Ratio		0.00				0.00										
95% Queue Length, Q <sub>95</sub> (veh)		0.0				0.0										
Control Delay (s/veh)		7.3				7.4					5.0				5.0	
Level of Service, LOS		Α				А	19.67				А				А	
Approach Delay (s/veh)		0	.0	- INCOME		0.	.0	***************************************		5	5.0			5	5.0	
Approach LOS				13 83				A. a. T			A				A	

<b>General Information</b>		Site Information	
Analyst	Elizabeth Landry	Intersection	Vallejo Rd @ W 4000 N
Agency/Co.		Jurisdiction	
Date Performed	6/3/2022	East/West Street	W 4000 N
Analysis Year	2022	North/South Street	Vallejo Road
Time Analyzed	2022 AM Peak Build	Peak Hour Factor	0.92
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00
Project Description			



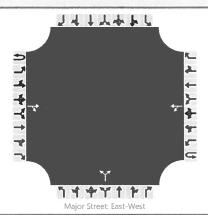
					Majo	r Street: Ea	ast-West									
Vehicle Volumes and Ad	justme	nts														
Approach	T	Easth	oound		Π	Westl	bound		I	North	bound		Π	South	bound	
Movement	U	L	T	R	U	L	T	R	U	L	Т	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0	- 187	0	0	0		0	0	0
Configuration				TR		LT					LR					
Volume, V (veh/h)			65	0		2	28			0		5				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked				MA				HEN					14413			
Percent Grade (%)											0					
Right Turn Channelized	No					N	10			1	Vo			١	No	
Median Type/Storage	Undi				ivided											
Critical and Follow-up H	eadwa	ys					iloin.									
Base Critical Headway (sec)																
Critical Headway (sec)																
Base Follow-Up Headway (sec)																
Follow-Up Headway (sec)																
Delay, Queue Length, ar	d Leve	l of S	ervic	9												
Flow Rate, v (veh/h)				<u> </u>		2					5					
Capacity, c (veh/h)				House		1521					988					
v/c Ratio						0.00			Ī		0.01					
95% Queue Length, Q <sub>95</sub> (veh)					3207	0.0					0.0					
Control Delay (s/veh)						7.4					8.7					
Level of Service, LOS						А					А			77.78		
Approach Delay (s/veh)						0	).5			{	3.7					
Approach LOS									A							

HCS 2010 Two-Way Stop-Control Report									
General Information Site Information									
Analyst	Gary N Grigsby	Intersection	Idaho SH 33 & W 4000 N						
Agency/Co.		Jurisdiction							
Date Performed	5/17/2022	East/West Street	W 4000 N						
Analysis Year	2022	North/South Street	Idaho SH 33						
Time Analyzed	2022 AM Peak Build	Peak Hour Factor	0.94						
Intersection Orientation	North-South	Analysis Time Period (hrs)	1.00						
Project Description									



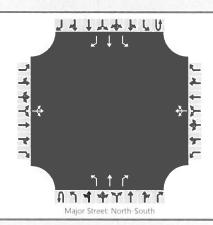
Approach		Eastb	ound			West	oound			North	bound		Southbound			
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	1	0	1	1	1
Configuration			LTR				LTR			L	Т	R		L	Т	R
Volume, V (veh/h)		4	0	76		6	0	7		26	191	6		3	363	1
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3				3		
Proportion Time Blocked							T. I							111		
Percent Grade (%)	0 0															
Right Turn Channelized			N	lo			No No					No				
Median Type/Storage	Undivided												***************************************			
Critical and Follow-up H	eadway	/5														
Base Critical Headway (sec)	T	7.1	6.5	6.2		7.1	6.5	6.2		4.1			T	4.1	T	
Critical Headway (sec)		7.13	6.53	6.23		7.13	6.53	6.23		4.13				4.13		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23				2.23		
Delay, Queue Length, an	d Level	of S	ervice	•												
Flow Rate, v (veh/h)			85				13			28				3		
Capacity, c (veh/h)			636				465			1165				1354		
v/c Ratio			0.13				0.03			0.02				0.00		
95% Queue Length, Q <sub>95</sub> (veh)			0.5	100			0.1			0.1	513	94 - 4	149	0.0	DEA	
Control Delay (s/veh)			11.5				13.0			8.2				7.7		
Level of Service, LOS			В				В		THE AS	Α				A		
Approach Delay (s/veh)	11.5				13	3.0			1	.0	Assessment		(	0.1		
Approach LOS	В			В												

<b>General Information</b>		Site Information							
Analyst	Elizabeth Landry	Intersection	Embarcadero St @ W4000 N						
Agency/Co.		Jurisdiction							
Date Performed	6/3/2022	East/West Street	W 4000 N						
Analysis Year	2022	North/South Street	Embarcadero St						
Time Analyzed	2022 AM Peak Build	Peak Hour Factor	0.92						
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00						
Project Description									



Approach		Eastb	ound			West	oound			North	bound		Southbound				
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12	
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0	124	0	0	0	
Configuration				TR		LT					LR						
Volume, V (veh/h)		in Li	70	0		3	30			0		10					
Percent Heavy Vehicles (%)						3				3		3					
Proportion Time Blocked						100	T.An										
Percent Grade (%)									)								
Right Turn Channelized	No No				lo			N	lo		No						
Median Type/Storage				Undi	ivided												
Critical and Follow-up H	leadwa	ys															
Base Critical Headway (sec)						4.1				7.1		6.2					
Critical Headway (sec)			ALC:			4.13				6.43	A FEED	6.23	1.38				
Base Follow-Up Headway (sec)						2.2				3.5		3.3					
Follow-Up Headway (sec)						2.23				3.53		3.33					
Delay, Queue Length, ar	nd Leve	l of S	ervice	9													
Flow Rate, v (veh/h)					T	3		<u> </u>			11						
Capacity, c (veh/h)						1515					982						
v/c Ratio						0.00					0.01						
95% Queue Length, Q <sub>95</sub> (veh)						0.0	No.				0.0	De sal					
Control Delay (s/veh)						7.4		-			8.7						
Level of Service, LOS				74.1		А					А			100			
Approach Delay (s/veh)	0.6						8	.7				-					
Approach LOS									A			Doew I					

Consul Information								
General Information		Site information	Site Information					
Analyst	Elizabeth Landry	Intersection	Idaho SH 33 & W 4000 N					
Agency/Co.		Jurisdiction						
Date Performed	6/15/2022	East/West Street	W 4000 N					
Analysis Year	2042	North/South Street	Idaho SH 33					
Time Analyzed	2042 AM Peak No Build	Peak Hour Factor	0.94					
Intersection Orientation	North-South	Analysis Time Period (hrs)	1.00					
Project Description		•						



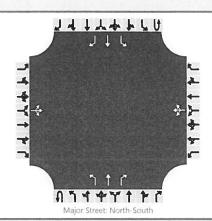
Vehicle	Volumes	and	Adjus	tments

Approach		Eastbound				West	bound		Northbound				Southbound			
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	1	0	1	1	1
Configuration			LTR				LTR			L	Т	R		L	T	R
Volume, V (veh/h)		29	0	114		4	0	25		36	352	5		14	641	9
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3				3		
Proportion Time Blocked									NAME OF							1000
Percent Grade (%)		American and a second	0	-		A	0			America Colombia (Colombia Colombia)				-		
Right Turn Channelized		N	10			P	No.			N	10			N	10	
Median Type/Storage				Undi	vided											

Base Critical Headway (sec)	7.1	6.5	6.2	7.1	6.5	6.2	4.1		4.1	
Critical Headway (sec)	7.13	6.53	6.23	7.13	6.53	6.23	4.13		4.13	
Base Follow-Up Headway (sec)	3.5	4.0	3.3	3.5	4.0	3.3	2.2		2.2	
Follow-Up Headway (sec)	3.53	4.03	3.33	3.53	4.03	3.33	2.23		2.23	

Flow Rate, v (veh/h)	152	31	38	15	
Capacity, c (veh/h)	322	402	898	1173	
v/c Ratio	0.47	0.08	0.04	0.01	
95% Queue Length, Q <sub>95</sub> (veh)	2.6	0.3	0.1	0.0	
Control Delay (s/veh)	26.0	14.7	9.2	8.1	
Level of Service, LOS	D	В	A	A	
Approach Delay (s/veh)	26.0	14.7	0.8	0.2	-
Approach LOS	D.	R			

HCS 2010 Two-Way Stop-Control Report									
General Information Site Information									
Analyst	Elizabeth Landry	Intersection	Idaho SH 33 & W 4000 N						
Agency/Co.		Jurisdiction							
Date Performed	6/15/2022	East/West Street	W 4000 N						
Analysis Year	2042	North/South Street	Idaho SH 33						
Time Analyzed	2042 AM Peak Build	Peak Hour Factor	0.94						
Intersection Orientation	North-South	Analysis Time Period (hrs)	1.00						
Project Description									



Vehicle Volumes and Adjustments	Vehicle	<b>Volumes</b>	and Ad	iustments
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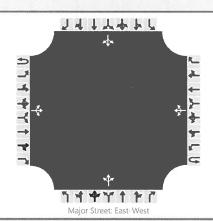
Approach		Easth	stbound Westbound			Northbound				Southbound						
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	1	0	1	1	1
Configuration			LTR				LTR			L	Т	R		L	Т	R
Volume, V (veh/h)		30	0	128		4	0	25		41	352	5		14	641	9
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3				3		
Proportion Time Blocked																
Percent Grade (%)			0				0	dament da						Аналичнанны		de-mesum mesus
Right Turn Channelized		١	10			1	No			١	lo			N	No.	
Median Type/Storage				Undi	vided								Accession			

## **Critical and Follow-up Headways**

Base Critical Headway (sec)	7.1	6.5	6.2	7.1	6.5	6.2	4.1		4.1	
Critical Headway (sec)	7.13	6.53	6.23	7.13	6.53	6.23	4.13		4.13	
Base Follow-Up Headway (sec)	3.5	4.0	3.3	3.5	4.0	3.3	2.2		2.2	
Follow-Up Headway (sec)	3.53	4.03	3.33	3.53	4.03	3.33	2.23		2.23	

Approach LOC	D	-			
Approach Delay (s/veh)	27.7	15.1	1.0	0.2	
Level of Service, LOS	D	С	A	A	
Control Delay (s/veh)	27.7	15.1	9.2	8.1	
95% Queue Length, Q <sub>95</sub> (veh)	3.1	0.3	0.2	0.0	
v/c Ratio	0.52	0.08	0.05	0.01	
Capacity, c (veh/h)	325	386	898	1173	
Flow Rate, v (veh/h)	168	31	44	15	

<b>General Information</b>		Site Information							
Analyst	Gary N Grigsby	Intersection	Access Dr @ W 4000 N						
Agency/Co.		Jurisdiction							
Date Performed	5/17/2022	East/West Street	W 4000 N						
Analysis Year	2022	North/South Street	Access Drive						
Time Analyzed	2042 AM Peak No Build	Peak Hour Factor	0.94						
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00						
Project Description			A STATE OF THE STA						



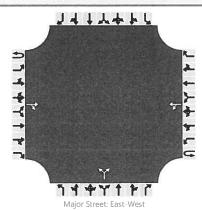
Approach		Eastbound Westbound				North	bound		Southbound							
Movement	U	L	L T R U L T R			U	L	T	R	U	L	Т	R			
Priority	10	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume, V (veh/h)		0	142	0		0	61	0		0	0	0		0	0	0
Percent Heavy Vehicles (%)		3		***************************************		3		-		3	3	3		3	3	3
Proportion Time Blocked					Troug	100								66		
Percent Grade (%)							0				0					
Right Turn Channelized		1	No			1	No		No				No			
Median Type/Storage				Und	ivided											
Critical and Follow-up H	leadwa	ys														
Base Critical Headway (sec)											T			T		
Critical Headway (sec)		71.118														
Base Follow-Up Headway (sec)																
			the same of the sa		-		A			A			A:	.E	- E	4

## **Delay, Queue Length, and Level of Service**

Follow-Up Headway (sec)

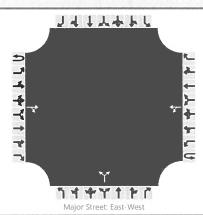
Flow Rate, v (veh/h)	0	0	0	0
Capacity, c (veh/h)	1529	1422	0	0
v/c Ratio	0.00	0.00		
95% Queue Length, Q <sub>95</sub> (veh)	0.0	0.0		
Control Delay (s/veh)	7.4	7.5	5.0	5.0
Level of Service, LOS	A	A	A	A
Approach Delay (s/veh)	0.0	0.0	5.0	5.0
Approach LOS			A	A

General Information		Site Information							
Analyst	Elizabeth Landry	Intersection	Vallejo Rd @ W 4000 N						
Agency/Co.		Jurisdiction							
Date Performed	6/3/2022	East/West Street	W 4000 N						
Analysis Year	2042	North/South Street	Vallejo Road						
Time Analyzed	2042 AM Peak Build	Peak Hour Factor	0.92						
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00						



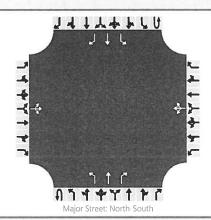
Vehicle Volumes and Ad	justme	nts											V.a.			
Approach	T		oound			Westb	oound		I	North	bound		Г	South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0	1	0	0	0		0	0	0
Configuration		***************************************		TR		LT					LR					
Volume, V (veh/h)			142	0		2	61		384	0		5	7413			
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked					D-W		THE R	[avail		4516						
Percent Grade (%)		W									0					Accessor
Right Turn Channelized	1816	1	No	-		Ν	lo			N	No			١	No	
Median Type/Storage				Undi	vided											
Critical and Follow-up H	leadwa	ys														
Base Critical Headway (sec)	T													Π	I	
Critical Headway (sec)														11111		
Base Follow-Up Headway (sec)																
Follow-Up Headway (sec)															ness.	
Delay, Queue Length, ar	nd Leve	l of S	ervice													
Flow Rate, v (veh/h)	T					2					5		T			
Capacity, c (veh/h)			Her		THE E	1419					889					
v/c Ratio						0.00					0.01					
95% Queue Length, Q <sub>95</sub> (veh)		A TE				0.0			1	15 35	0.0	N. I	1000			
Control Delay (s/veh)						7.5					9.1					
Level of Service, LOS						А				0 - 1 -	A					
Approach Delay (s/veh)						0	.2	-		9	9.1	-				
Approach LOS								Α								

<b>General Information</b>		Site Information							
Analyst	Elizabeth Landry	Intersection	Embarcadero St @ W4000 N						
Agency/Co.		Jurisdiction							
Date Performed	6/3/2022	East/West Street	W 4000 N						
Analysis Year	2042	North/South Street	Embarcadero St						
Time Analyzed	2042 AM Peak Build	Peak Hour Factor	0.92						
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00						
Project Description		Market and the second of the s	modelle biii e ascenio.						



Approach		East	oound			Westl	oound			North	oound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		0	0	0
Configuration				TR		LT					LR					
Volume, V (veh/h)			147	0	1.5	3	63			0		10				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked														N/M		
Percent Grade (%)										(	)					
Right Turn Channelized		1	No			N	lo		1	N	lo			N	10	
Median Type/Storage		www.m		Und	ivided											
Critical and Follow-up H	leadwa	ys														
Base Critical Headway (sec)	T					4.1				7.1		6.2				
Critical Headway (sec)						4.13		PH		6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.23				3.53		3.33				
Delay, Queue Length, ar	nd Leve	l of S	ervice													
Flow Rate, v (veh/h)	T		T			3		I		T	11	T			T	
Capacity, c (veh/h)						1411	1181				882					
v/c Ratio						0.00					0.01					
95% Queue Length, Q <sub>95</sub> (veh)						0.0					0.0	1000				
Control Delay (s/veh)						7.6					9.1					
Level of Service, LOS			1			А					А			1		
Approach Delay (s/veh)				***************************************		C	).3			9	.1					
Approach LOS								A					10.00			

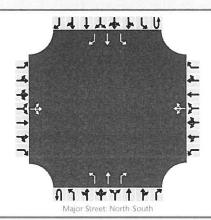
<b>General Information</b>		Site Information							
Analyst	Gary N Grigsby	Intersection	Idaho SH 33 & W 4000 N						
Agency/Co.		Jurisdiction							
Date Performed	5/17/2022	East/West Street	W 4000 N						
Analysis Year	2022	North/South Street	Idaho SH 33						
Time Analyzed	2022 PM Peak	Peak Hour Factor	0.96						
Intersection Orientation	North-South	Analysis Time Period (hrs)	1.00						
Project Description									



<b>Vehicle Volum</b>	es and Ac	liustments
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Approach		Eastb	ound		Westbound					North	bound		Southbound			
Movement	U	L	T	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	1	0	1	1	1
Configuration			LTR				LTR			L	T	R		L	Т	R
Volume, V (veh/h)		2	0	34		0	0	1		52	375	6		1	211	1
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3				3		
Proportion Time Blocked																
Percent Grade (%)		(	)				0							***************************************	- Parameter and a second	
Right Turn Channelized		N	lo			١	10			١	lo			1	No	
Median Type/Storage				Undiv	vided											
Critical and Follow-up H	leadway	/s														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.13	6.53	6.23		7.13	6.53	6.23		4.13		10.0	HE	4.13		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23				2.23		
Delay, Queue Length, an	d Level	of S	ervice	•						,Unite						
Flow Rate, v (veh/h)	T		37			T	1			54	T		T	1	T	
Capacity, c (veh/h)			756				655			1341				1155		
v/c Ratio			0.05				0.00			0.04				0.00		
95% Queue Length, Q <sub>95</sub> (veh)			0.2	TIME?	15.5		0.0			0.1				0.0		
Control Delay (s/veh)			10.0				10.5			7.8				8.1		
Level of Service, LOS			В			1	В			A				А		
Approach Delay (s/veh)		10	0.0			1	0.5		0.9				0.0			
Approach LOS			В				В									

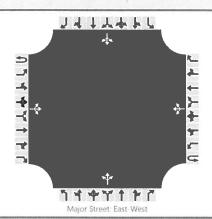
<b>General Information</b>		Site Information	
Analyst	Gary N Grigsby	Intersection	Idaho SH 33 & W 4000 N
Agency/Co.		Jurisdiction	
Date Performed	5/17/2022	East/West Street	W 4000 N
Analysis Year	2022	North/South Street	Idaho SH 33
Time Analyzed	2022 PM Peak Build	Peak Hour Factor	0.96
Intersection Orientation	North-South	Analysis Time Period (hrs)	1.00
Project Description			



<b>Vehicle Volumes</b>	and Adjustments
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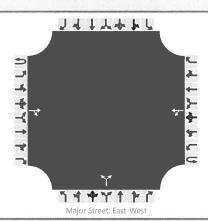
Approach		Eastb	ound	ound Westbound						North	bound		Southbound				
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	1	0	0	1	1	1	0	1	1	1	
Configuration			LTR				LTR			L	Т	R		L	Т	R	
Volume, V (veh/h)		3	0	43		0	0	1		67	375	6		1	211	2	
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3				3			
Proportion Time Blocked														E L			
Percent Grade (%)			)				0	***************************************									
Right Turn Channelized		N	lo			N	10			N	lo			1	No		
Median Type/Storage				Undi	vided												
Critical and Follow-up H	leadwa	ys															
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1			
Critical Headway (sec)		7.13	6.53	6.23		7.13	6.53	6.23		4.13		1541		4.13			
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2			
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23				2.23	- I H		
Delay, Queue Length, ar	nd Leve	of S	ervice	•													
Flow Rate, v (veh/h)	T		48				1		T	70	Ι		Τ	1			
Capacity, c (veh/h)			741		W B		655			1340			1	1155			
v/c Ratio			0.06				0.00			0.05				0.00			
95% Queue Length, Q <sub>95</sub> (veh)			0.2				0.0			0.2	100			0.0			
Control Delay (s/veh)			10.2				10.5			7.8				8.1			
Level of Service, LOS			В	2197	10.30		В	1		А				А			
Approach Delay (s/veh)		10	0.2	America		1	0.5	0		1	.2		0.0				
Approach LOS			В				В										

	1163 2010 1W0 V	Way Stop-Control Repo							
General Information		Site Information							
Analyst	Gary N Grigsby	Intersection	Access Dr @ W 4000 N						
Agency/Co.		Jurisdiction							
Date Performed	5/17/2022	East/West Street	W 4000 N						
Analysis Year	2022	North/South Street	Access Drive						
Time Analyzed	2022 PM Peak No Build	Peak Hour Factor	0.94						
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00						
Project Description									



Approach		Eastb	ound			Westb	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	T	R	U	L	T	R	U	L	Т	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0	54.5	0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume, V (veh/h)		0	36	0		0	53	0		0	0	0		0	0	0
Percent Heavy Vehicles (%)		3				3			-	3	3	3		3	3	3
Proportion Time Blocked													14.34			
Percent Grade (%)									Marini Ma		0				0	
Right Turn Channelized	No No					No No										
Median Type/Storage				Undi	vided											
Critical and Follow-up H	leadwa	ys														1
Base Critical Headway (sec)																
Critical Headway (sec)	1 2 3 3						i in							(E)		
Base Follow-Up Headway (sec)																
Follow-Up Headway (sec)																
Delay, Queue Length, an	d Leve	l of S	ervice						18 2 1							
Flow Rate, v (veh/h)	T	0				0					0		<u> </u>		0	
Capacity, c (veh/h)		1540				1564					0		10,5		0	
v/c Ratio		0.00				0.00										
95% Queue Length, Q <sub>95</sub> (veh)	1003	0.0				0.0										
Control Delay (s/veh)		7.3				7.3					5.0				5.0	
Level of Service, LOS		Α				Α			120		Α				А	
Approach Delay (s/veh)		0	0.0			0	.0		5.0				5.0			
Approach LOS		2000	Karla S						A				A			

General Information		Site Information	
Analyst	Elizabeth Landry	Intersection	Vallejo Rd @ W 4000 N
Agency/Co.		Jurisdiction	
Date Performed	6/3/2022	East/West Street	W 4000 N
Analysis Year	2022	North/South Street	Vallejo Road
Time Analyzed	2022 AM Peak Build	Peak Hour Factor	0.92
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00



Vehicle Volumes and	d Adjustments
Approach	Eas

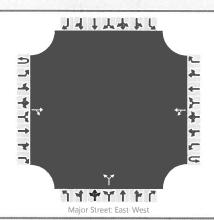
Approach		Eastb	ound			West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	T	R	U	L	T	R	U	L	Т	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0	I HE	0	0	0	The same	0	0	0
Configuration				TR		LT					LR					
Volume, V (veh/h)			36	0		5	53			0		3				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked			TA IN								E. Us			1 84		V.
Percent Grade (%)										-	)			-	A	
Right Turn Channelized		1	10			١	No			N	lo			N	lo	
Median Type/Storage		W		Undi	ivided									Name and Administration		

## Critical and Follow-up Headways

Base Critical Headway (sec)										
Critical Headway (sec)										
Base Follow-Up Headway (sec)										
Follow-Up Headway (sec)				0.53	THE ST	1	100			

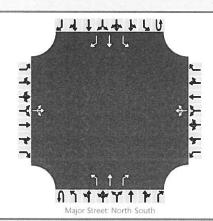
Flow Rate, v (veh/h)	5	3	
Capacity, c (veh/h)	1563	1029	
v/c Ratio	0.00	0.00	
95% Queue Length, Q <sub>95</sub> (veh)	0.0	0.0	
Control Delay (s/veh)	7.3	8.5	
Level of Service, LOS	A	A	
Approach Delay (s/veh)	0.6	8.5	
Approach LOS		A	

<b>General Information</b>		Site Information							
Analyst	Elizabeth Landry	Intersection	Embarcadero St @ W4000 N						
Agency/Co.		Jurisdiction							
Date Performed	6/3/2022	East/West Street	W 4000 N						
Analysis Year	2022	North/South Street	Embarcadero St						
Time Analyzed	2022 PM Peak Build	Peak Hour Factor	0.92						
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00						
Project Description									



Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12	
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		0	0	0	
Configuration				TR		LT					LR						
Volume, V (veh/h)			39	0		11	58			0		7					
Percent Heavy Vehicles (%)				***************************************		3				3		3					
Proportion Time Blocked									1					Mile			
Percent Grade (%)									0								
Right Turn Channelized		N	lo			N	lo			١	lo			N	No		
Median Type/Storage				Undi	vided									-			
Critical and Follow-up H	eadwa	ys															
Base Critical Headway (sec)						4.1				7.1		6.2				Г	
Critical Headway (sec)						4.13				6.43		6.23					
Base Follow-Up Headway (sec)						2.2				3.5		3.3					
Follow-Up Headway (sec)						2.23				3.53		3.33					
Delay, Queue Length, an	d Leve	l of S	ervice														
Flow Rate, v (veh/h)	1					12			T		8						
Capacity, c (veh/h)						1559					1025						
v/c Ratio						0.01					0.01						
95% Queue Length, Q <sub>95</sub> (veh)	1000					0.0				12.5	0.0		1000			28	
Control Delay (s/veh)						7.3					8.5						
Level of Service, LOS		723				А	74-3				Α						
Approach Delay (s/veh)			***************************************			1	.2			8	.5					-	
Approach LOS				33,81							A			THE STATE OF			

General Information		Site Information								
Analyst	Gary N Grigsby	Intersection	Idaho SH 33 & W 4000 N							
Agency/Co.		Jurisdiction								
Date Performed	5/17/2022	East/West Street	W 4000 N							
Analysis Year	2022	North/South Street	Idaho SH 33							
Time Analyzed	2042 PM Peak No Build	Peak Hour Factor	0.96							
Intersection Orientation	North-South	Analysis Time Period (hrs)	1.00							



<b>Vehicle</b>	<b>Volumes</b>	and Ad	ljustments
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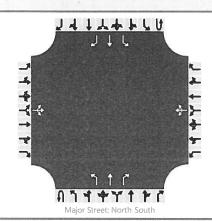
Approach		Eastb	oound			West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	1	0	1	1	1
Configuration			LTR				LTR			L	Т	R		L	T	R
Volume, V (veh/h)		25	0	54		0	0	2		88	688	6		8	364	13
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3				3		
Proportion Time Blocked		MARI										NE S				
Percent Grade (%)		(	0				0	Broandistation of the State of							Assessment	
Right Turn Channelized		N	10			N	No			N	lo			1	No	
Median Type/Storage				Undi	vided											

## **Critical and Follow-up Headways**

Base Critical Headway (sec)	7.1	6.5	6.2	NATION OF THE PARTY OF THE PART	7.1	6.5	6.2	4.1		4.1	
Critical Headway (sec)	7.13	6.53	6.23		7.13	6.53	6.23	4.13		4.13	
Base Follow-Up Headway (sec)	3.5	4.0	3.3		3.5	4.0	3.3	2.2		2.2	
Follow-Up Headway (sec)	3.53	4.03	3.33		3.53	4.03	3.33	2.23		2.23	

Flow Rate, v (veh/h)	82	2	92	8	
Capacity, c (veh/h)	286	428	1159	874	
v/c Ratio	0.29	0.00	0.08	0.01	
95% Queue Length, Q <sub>95</sub> (veh)	1.2	0.0	0.3	0.0	
Control Delay (s/veh)	22.6	13.5	8.4	9.2	
Level of Service, LOS	С	В	A	A	
Approach Delay (s/veh)	22.6	13.5	0.9	0.2	
Approach LOS		R			

	HCS 2010 Two-	-Way Stop-Control Repo	rt
General Information		Site Information	
Analyst	Gary N Grigsby	Intersection	Idaho SH 33 & W 4000 N
Agency/Co.		Jurisdiction	
Date Performed	5/17/2022	East/West Street	W 4000 N
Analysis Year	2022	North/South Street	Idaho SH 33
Time Analyzed	2042 PM Peak Build	Peak Hour Factor	0.96
Intersection Orientation	North-South	Analysis Time Period (hrs)	1.00
Project Description			



Vehicle Vo	lumes	and A	Adjust	tments
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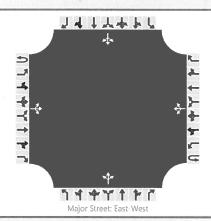
Approach		Easth	oound			West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	T	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	1	0	1	1	1
Configuration			LTR			-	LTR			L	Т	R		L	Т	R
Volume, V (veh/h)		26	0	63		0	0	2		103	688	6		8	364	14
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3				3		
Proportion Time Blocked											L. IV			E I		
Percent Grade (%)			0				0								-	A
Right Turn Channelized		1	No			1	Vo			N	10			1	Vo	
Median Type/Storage				Undi	ivided											

## **Critical and Follow-up Headways**

Base Critical Headway (sec)	7.1	6.5	6.2		7.1	6.5	6.2	4.1		4.1	
Critical Headway (sec)	7.13	6.53	6.23	3 12	7.13	6.53	6.23	4.13		4.13	
Base Follow-Up Headway (sec)	3.5	4.0	3.3		3.5	4.0	3.3	2.2		2.2	
Follow-Up Headway (sec)	3.53	4.03	3.33		3.53	4.03	3.33	2.23		2.23	

Flow Rate, v (veh/h)	93	2	107	8
Capacity, c (veh/h)	288	428	1158	874
v/c Ratio	0.32	0.00	0.09	0.01
95% Queue Length, Q <sub>95</sub> (veh)	1.4	0.0	0.3	0.0
Control Delay (s/veh)	23.4	13.5	8.4	9.2
Level of Service, LOS	С	В	A	A
Approach Delay (s/veh)	23.4	13.5	1.1	0.2
Approach LOS	C	B		

	HCS 2010 1wo-1	Way Stop-Control Repo	rt
General Information		Site Information	
Analyst	Gary N Grigsby	Intersection	Access Dr @ W 4000 N
Agency/Co.		Jurisdiction	
Date Performed	5/17/2022	East/West Street	W 4000 N
Analysis Year	2022	North/South Street	Access Drive
Time Analyzed	2042 PM Peak No Build	Peak Hour Factor	0.94
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00
Project Description			



Vehicle V	olumes	and A	Adjust	tments
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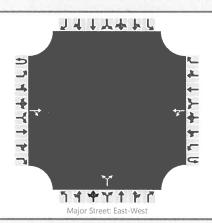
Approach		Easth	ound			Westbound				Northbound				Southbound				
Movement	U	L	Т	R	U	L	T	R	U	L	Т	R	U	L	Т	R		
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12		
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	1	0		
Configuration			LTR				LTR				LTR				LTR			
Volume, V (veh/h)		0	79	0		0	116	0		0	0	0		0	0	0		
Percent Heavy Vehicles (%)		3				3				3	3	3		3	3	3		
Proportion Time Blocked					100					The state of								
Percent Grade (%)				-		Optional transmission of the Control	-				0				0			
Right Turn Channelized		١	10			1	No			١	10			١	10			
Median Type/Storage		Undiv			vided	vided												

## **Critical and Follow-up Headways**

Base Critical Headway (sec)								
Critical Headway (sec)								
Base Follow-Up Headway (sec)								
Follow-Up Headway (sec)								

Flow Rate, v (veh/h)	0	0	0	0	
Capacity, c (veh/h)	1456	1505	0	0	
v/c Ratio	0.00	0.00			
95% Queue Length, Q <sub>95</sub> (veh)	0.0	0.0			
Control Delay (s/veh)	7.5	7.4	5.0	5.0	
Level of Service, LOS	A	A	A	A	
Approach Delay (s/veh)	0.0	0.0	5.0	5.0	
Approach LOS			A	A	

	HCS 2010 Two-	-Way Stop-Control Repo	t
General Information		Site Information	
Analyst	Elizabeth Landry	Intersection	Vallejo Rd @ W 4000 N
Agency/Co.		Jurisdiction	
Date Performed	6/3/2022	East/West Street	W 4000 N
Analysis Year	2042	North/South Street	Vallejo Road
Time Analyzed	2042 PM Peak Build	Peak Hour Factor	0.92
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00
Project Description			



## **Vehicle Volumes and Adjustments**

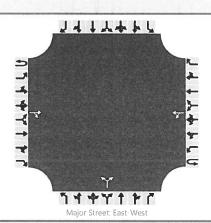
Approach		Easth	bound Westbound			Northbound				Southbound						
Movement	U	L	T	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		0	0	0
Configuration				TR		LT					LR					
Volume, V (veh/h)			79	0		5	116		0	0		3				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked																
Percent Grade (%)						D	-			d	0	American		d	A	
Right Turn Channelized		١	No.			ı	No			1	۷o			١	10	
Median Type/Storage				Und	ivided								-			
Critical and Follow-up	Headwa	ys	1													
Base Critical Headway (sec)			T		П	Π	Т		T	Г	T			Г	Π	
Critical Headway (sec)								1	11.74							

Base Critical Headway (sec)									
Critical Headway (sec)									
Base Follow-Up Headway (sec)									
Follow-Up Headway (sec)		N. A							

Flow Rate, v (veh/h)	5	3	
Capacity, c (veh/h)	1502	969	
v/c Ratio	0.00	0.00	
95% Queue Length, Q <sub>95</sub> (veh)	0.0	0.0	
Control Delay (s/veh)	7.4	8.7	
Level of Service, LOS	A	A	
Approach Delay (s/veh)	0.3	8.7	
Approach LOS		A	

WWW. Committee of the Section of the							
General Information		Site Information					
Analyst	Elizabeth Landry	Intersection	Embarcadero St @ W4000 N				
Agency/Co.		Jurisdiction					
Date Performed	6/3/2022	East/West Street	W 4000 N				
Analysis Year	2042	North/South Street	Embarcadero St				
Time Analyzed	2042 PM Peak Build	Peak Hour Factor	0.92				
Intersection Orientation	East-West	Analysis Time Period (hrs)	1.00				
Project Description			THE PROPERTY OF THE PARTY OF TH				

Approach



Westbound

Northbound

8.8

Α

Eastbound

, pprodeit	Edstaddina				rrestodana				Horaibodia				Southboard			
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		0	0	0
Configuration				TR		LT					LR					
Volume, V (veh/h)		N. E.	82	0		11	121	Wall		0		7				
Percent Heavy Vehicles (%)						3				3		3				
Proportion Time Blocked					1											
Percent Grade (%)									0					A		
Right Turn Channelized	No				No				No				No			
Median Type/Storage	Undivided															
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.13	12 3			6.43		6.23				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)				Marie 1		2.23				3.53	H.	3.33				
Delay, Queue Length, an	d Leve	l of S	ervice	9												
Flow Rate, v (veh/h)						12					8					
Capacity, c (veh/h)						1498	1		-		966					
v/c Ratio						0.01					0.01					
95% Queue Length, Q <sub>95</sub> (veh)						0.0					0.0	14.3	The same			
Control Delay (s/veh)						7.4					8.8					
Level of Service, LOS						А		Y THE			Α					

Approach Delay (s/veh)

Approach LOS

0.7

Southbound