

## **Project Title: CML 5030 (059) Vallejo SR2S Infrastructure Improvements**

### **Project Summary for Air Quality Conformity Task Force Meeting: May 28, 2015**

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#### **Description**

- This project will install safety improvements on Oakwood Drive in the City of Vallejo including flashing beacons and crosswalk; solar power with buried conduit for the beacons; new or upgraded ADA ramps; minor modifications to median and sidewalk, curb and gutter; additional signing and striping modifications; and a road diet (lane reduction) from Wardlaw School entrance as far as the Tennessee Street intersection to improve bicycle mobility.
- The Road diet will install bike lanes between the school entrance and Tennessee Street by reducing the travelled lanes from 4 lanes (two in each direction) to 2 lanes (one in each direction) with a parking lane and class II bicycle lane in each direction, and free-left-turn lane in the center. This work includes bicycle signing and no changes to the curb lines along the road diet portion of the project.

#### **Background**

- PES forms and documents have been approved, and the remaining item is air quality conformity determination.
- No comments received on air quality thus far
- Seeking Air Quality Conformity determination on the May 28, 2015 meeting.

#### **Not a Project of Air Quality Concern (40 CFR 93.123(b)(1))**

*(i) New or expanded highway projects with significant number/increase in diesel vehicles?*

- This is not a new or expanded highway project
- This is a Local Street project.
- There will be no change in traffic volume or truck percentages as a result of this project.

*(ii) Affects intersections at LOS D, E, or F with a significant number of diesel vehicles?*

- Trucks represent only 0.6% of the roadway traffic volume
- Intersections at LOS D, E, or F improve, and delays decrease (2035)
- There are no foreseeable changes to land use that would affect diesel traffic percentages in the future on this route.

*(iii) New bus and rail terminals and transfer points? — Not Applicable*

*(iv) Expanded bus and rail terminals and transfer points? — Not Applicable*

*(v) Affects areas identified in PM<sub>10</sub> or PM<sub>2.5</sub> implementation plan as site of violation? — Not Applicable*

**Project Assessment Form for PM<sub>2.5</sub> Interagency Consultation**

<b>RTIP ID#</b> 240605				
<b>TIP ID#</b> SOL130015				
<b>Air Quality Conformity Task Force Consideration Date</b> May 28, 2015				
<b>Project Description</b> <i>(clearly describe project)</i> This project will install safety improvements on Oakwood Drive in the City of Vallejo including flashing beacons and crosswalk; solar power with buried conduit for the beacons; new or upgraded ADA ramps; modifications to median and sidewalk, curb and gutter; additional signing and striping and/or modifications; and a road diet (lane reduction) from Wardlaw School entrance as far as the Tennessee Street intersection.  Road diet changes the road from 4 lanes to 2 lanes with a parking lane and class II bicycle lane in each direction, and free-left-turn lane in the center. This work includes bicycle signing and no changes to the curb lines for the road diet.				
<b>Type of Project:</b> Safe Routes to School project involving bicycle and pedestrian facilities (exempt as per 40 CFR 93.126)				
<b>County</b> Solano		<b>Narrative Location/Route &amp; Postmiles:</b> <b>Oakwood Dr. from Tennessee St to Redwood PKWY in the City of Vallejo</b>  <b>Caltrans Projects – EA#</b> 04-SOL-0-VAL		
<b>Lead Agency:</b> City of Vallejo				
<b>Contact Person</b> Gary Cullen		<b>Phone#</b> 707-648-5306	<b>Fax#</b> 707-648-4691	<b>Email</b> Gary.Cullen@cityofvallejo.net
<b>Federal Action for which Project-Level PM Conformity is Needed</b> <i>(check appropriate box)</i>				
<input checked="" type="checkbox"/> <b>Categorical Exclusion (NEPA)</b>	<input type="checkbox"/> <b>EA or Draft EIS</b>	<input type="checkbox"/> <b>FONSI or Final EIS</b>	<input type="checkbox"/> <b>PS&amp;E or Construction</b>	<input type="checkbox"/> <b>Other</b>
<b>Scheduled Date of Federal Action:</b>				
<b>NEPA Delegation – Project Type</b> <i>(check appropriate box)</i>				
<input checked="" type="checkbox"/> <b>Exempt</b>		<input type="checkbox"/> <b>Section 6004 – Categorical Exemption</b>		<input type="checkbox"/> <b>Section 6005 – Non-Categorical Exemption</b>
<b>Current Programming Dates</b> <i>(as appropriate)</i>				
	<b>PE/Environmental</b>	<b>ENG</b>	<b>ROW</b>	<b>CON</b>
<b>Start</b>	12/2014	3/2015		
<b>End</b>	3/2015	7/2015		
<b>Project Purpose and Need (Summary):</b> <i>(please be brief)</i> The project will improve safety for students and parents at the Wardlaw Elementary School. Students need a high visibility safe crosswalk and route along Oakwood Drive to bike and walk to school. Safer student pick-up and drop-off is also a goal.  The roadway diet will provide enhanced safety for Bike-to-School programs as well as the general cycling public.				

## Project Assessment Form for PM<sub>2.5</sub> Interagency Consultation

### **Surrounding Land Use/Traffic Generators** *(especially effect on diesel traffic)*

The project lies in a Residential area with front-on residential on Oakwood Avenue, Wardlaw Elementary School and a high school nearby. Traffic generated in this area is predominantly passenger vehicles, and basic service vehicles such as delivery service, waste disposal, and fire response that serve all residential neighborhoods. Land uses are residential, school, and open space (neighborhood park) which has little effect on diesel traffic.

### **Brief summary of assumptions and methodology used for conducting analysis** *(please keep this concise – specifics may include date of when traffic counts were conducted, studies where truck percentages were derived)*

Traffic count data was collected in October 2014, the area served by Oakwood Avenue is an older part of the city and there is little to no land adjacent for development. This neighborhood is surrounded by arterial streets (Redwood Pkwy, Columbus Pkwy, and Tennessee St.), which would accommodate any traffic from development in this section of the city.

An addition vehicle count including truck traffic was collected on May 6, 2015. These counts confirmed vehicular traffic numbers and showed truck traffic to be less than 1% of the ADT.

### **Opening Year: If facility is a highway or street, Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility**

Opening year is expected to be summer 2015. Based upon LOS table used for the City's General Plan Update both the build and no build LOS will be "B". This segment has only residential uses; truck traffic is limited to residential delivery, garbage and general public works services.

A May 6, 2015 count of truck traffic showed less than 0.6% of daily volume (9 trucks per day)

### **RTP Horizon Year / Design Year: If facility is a highway or street, Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility**

The horizon year is 2035 (Same as General Plan), based upon recent traffic counts the volume growth on Oakwood Avenue averages 2% per year. Based upon a 2% growth, no build LOS would remain at "B", build alternative would start at "B", 2020 "C", 2026 "D", and 2030 "E". As stated above, this segment only has residential uses; truck traffic is limited to residential delivery, garbage and general public works services.

Based on the May 6, 2015 count, truck traffic in 2035 is projected to be 14 vehicles per day.

There are no foreseeable changes to land use that would affect diesel traffic percentages in the future on this route.

**Project Assessment Form for PM<sub>2.5</sub> Interagency Consultation**

**Opening Year:** If facility is an interchange(s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

**RTP Horizon Year / Design Year:** If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

**Opening Year:** If facility is a bus, rail or intermodal facility/terminal/transfer point, # of bus arrivals for Build and No Build, % and # of bus arrivals will be diesel buses

**RTP Horizon Year / Design Year:** If facility is a bus, rail or intermodal facility/terminal/transfer point, # of bus arrivals for Build and No Build, % and # of bus arrivals will be diesel buses

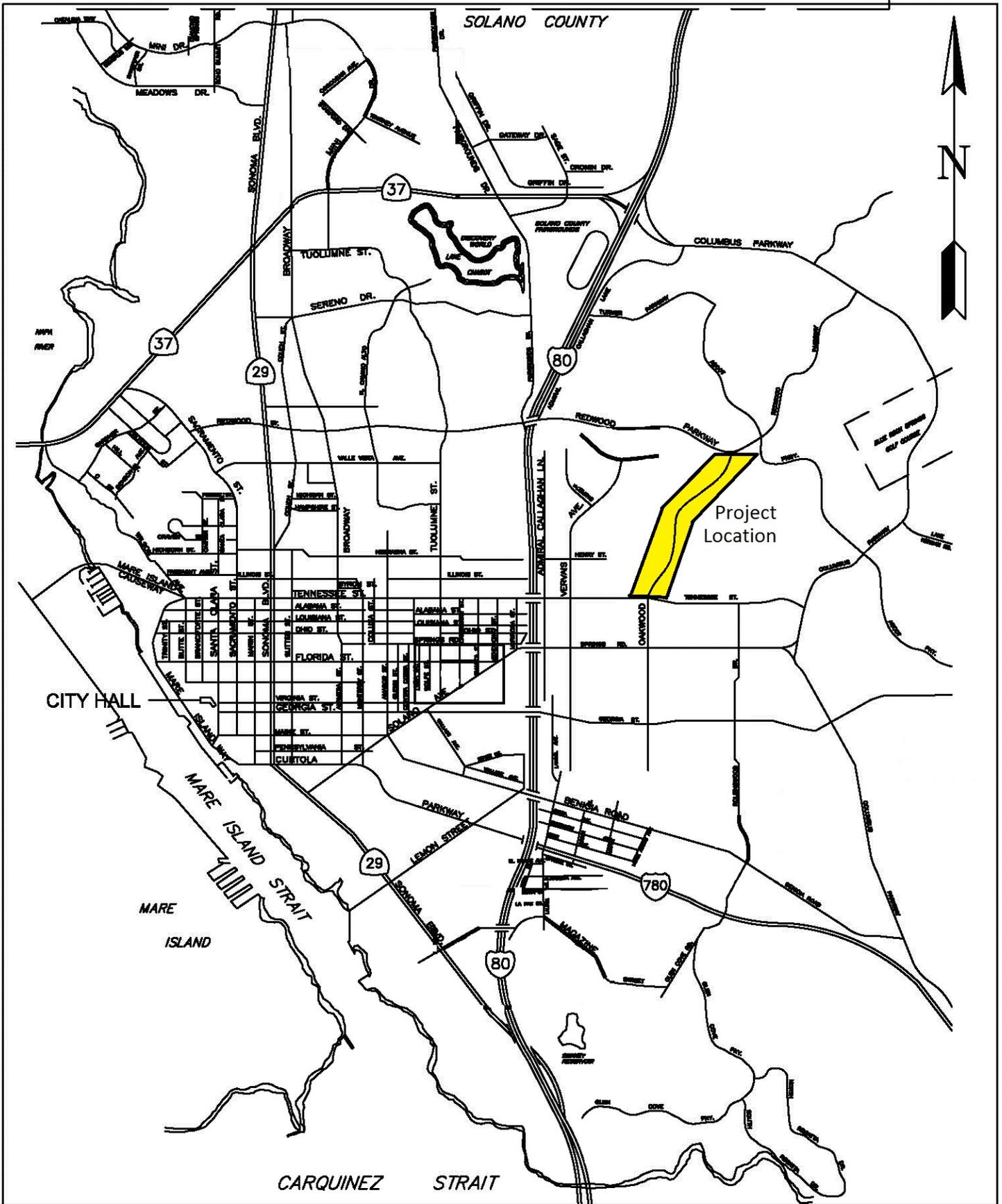
**Describe potential traffic redistribution effects of congestion relief** *(impact on other facilities)*

**Implementation of a road diet on Oakwood Avenue is not anticipated to redistribute traffic. Oakwood Avenue is a collector roadway that provides the neighborhood access to local residential streets from Tennessee Street and Redwood Parkway. The access and lane configuration at the end points are not modified and therefore will be able to accommodate traffic and not cause back up on Oakwood Avenue. Volumes will not be affected by the change from 4 to 2 lanes, access to and from side streets flow on Oakwood Avenue will improve.**

**Comments/Explanation/Details** *(please be brief)*

As mentioned, Oakwood Avenue functions as a residential collector roadway, has single family homes and Wardlaw Elementary School along its frontage. The area is completely build out and has arterial roadways on its perimeter, therefore any new development outside of this neighborhood will not need to use Oakwood Avenue to access commercial areas or the freeway.

The roadway diet will help residents who live on Oakwood Avenue and provide safer passage for pedestrians, bicyclists, and vehicles wanting to use or make left turns from Oakwood Avenue.



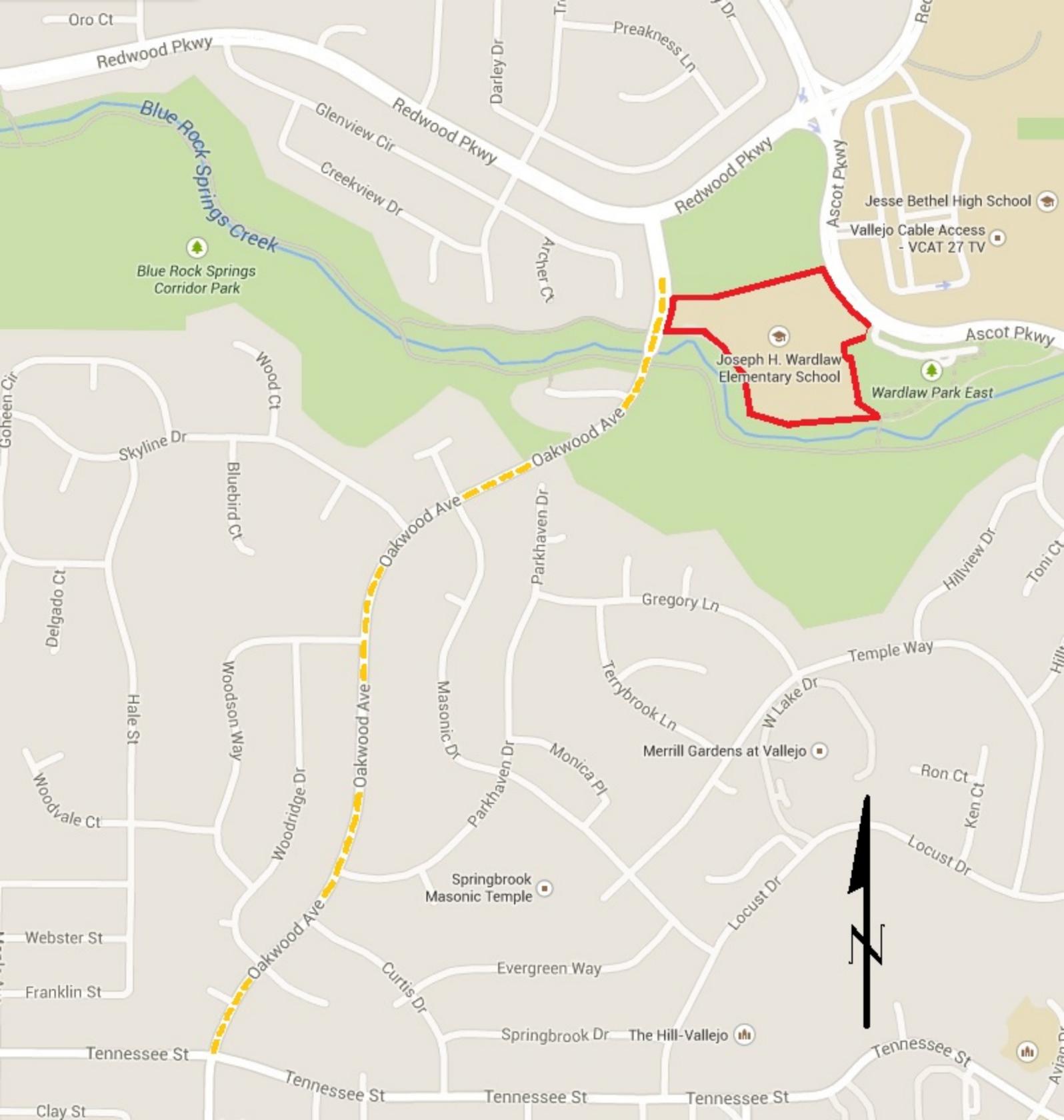
CITY OF VALLEJO, CALIFORNIA

PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

DWG. NO. \_\_\_\_\_  
 DRAWN BY GC  
 DATE 10-10-2014  
 CHECKED —

SHEET 1 OF 1  
 FILE NO. ---  
 REF. PW9771  
 SCALE HORIZ: 1"=4000'

LOCATION MAP



Oro Ct

Redwood Pkwy

Blue Rock Springs Creek

Blue Rock Springs Corridor Park

Glenview Cir

Redwood Pkwy

Creekview Dr

Darley Dr

Preakness Ln

Redwood Pkwy

Ascot Pkwy

Jesse Bethel High School

Vallejo Cable Access - VCAT 27 TV

Joseph H. Wardlaw Elementary School

Wardlaw Park East

Ascot Pkwy

Skyline Dr

Wood Ct

Bluebird Ct

Oakwood Ave

Parkhaven Dr

Gregory Ln

Hillview Dr

Delgado Ct

Hale St

Woodson Way

Woodridge Dr

Oakwood Ave

Masonic Dr

Terrybrook Ln

Temple Way

Woodvale Ct

Parkhaven Dr

Monica Pl

Merrill Gardens at Vallejo

Ron Ct

Ken Ct

Locust Dr

Webster St

Franklin St

Springbrook Masonic Temple

Evergreen Way

Locust Dr

Tennessee St

Curtis Dr

Springbrook Dr

The Hill-Vallejo

Tennessee St

Tennessee St

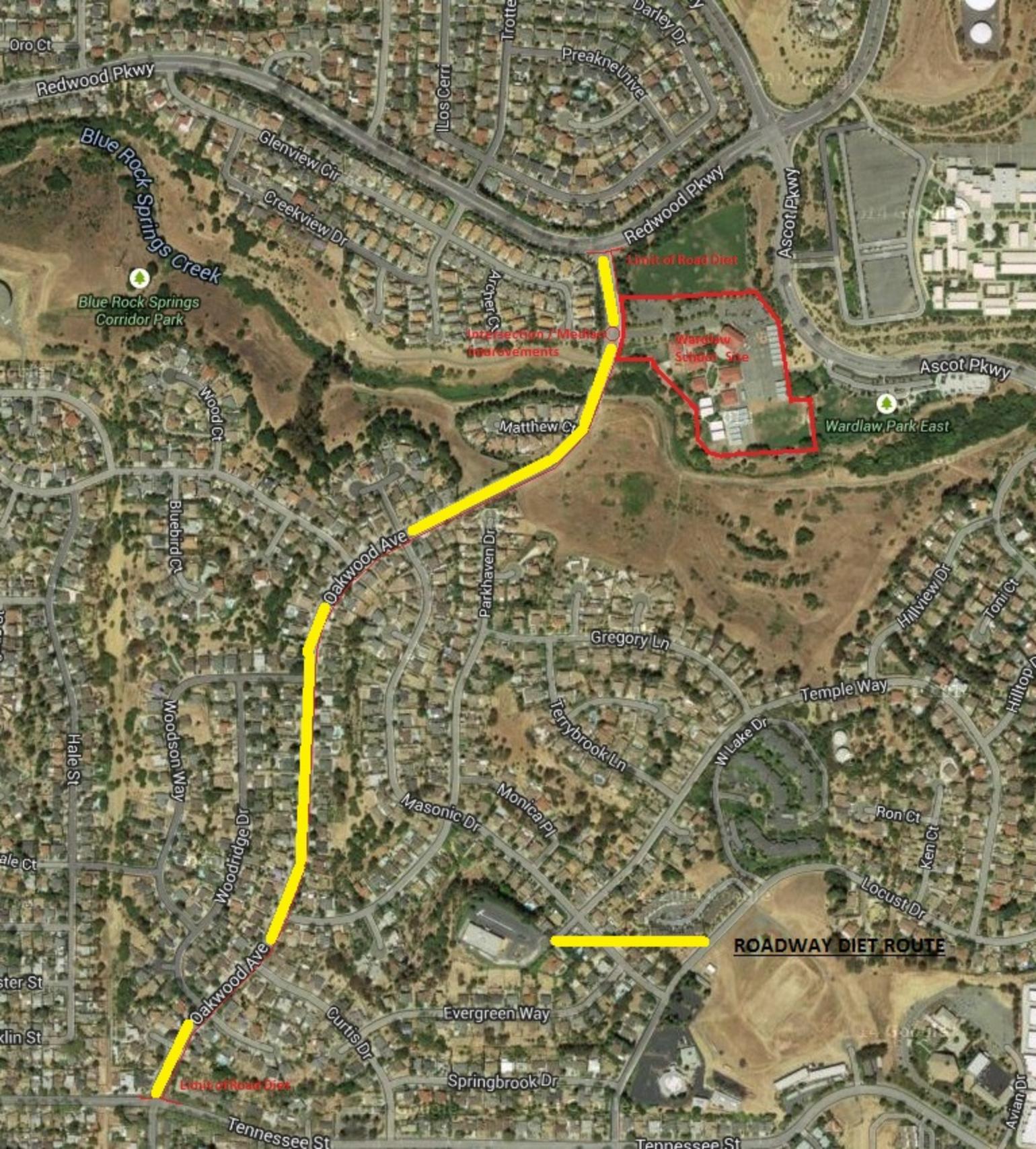
Tennessee St

Tennessee St

Clay St

Avian Dr





**ROADWAY DIET ROUTE**

Intersection / Median Improvements

Wardlaw School Site

Limit of Road Diet

Limit of Road Diet

Blue Rock Springs Corridor Park

Wardlaw Park East

Redwood Pkwy

Redwood Pkwy

Ascot Pkwy

Ascot Pkwy

Oakwood Ave

Oakwood Ave

Temple Way

W Lake Dr

Gregory Ln

Terrybrook Ln

Masonic Dr

Monica Pl

Evergreen Way

Springbrook Dr

Tennessee St

Tennessee St

Oro Ct

I Los Cerri

Trotter

Preaknet Drive

Darley Dr

Glenview Cir

Creekview Dr

Wood Ct

Bluebird Ct

Woodson Way

Hale St

Parkhaven Dr

Hillview Dr

Toni Ct

Ron Ct

Ken Ct

Locust Dr

Hilltop Dr

ale Ct

ster St

lin St

Avian Dr



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Oakwood Ave

Oakwood Ave

Oakwood Ave

Oakwood Ave

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**Oakwood Avenue-2% volume growth per year**

<b>year</b>	<b>volume</b>	<b>LOS</b>	<b>Truck Traffic*</b>
2014	8200	<b>B</b>	9
2015	8364		9
2016	8531		9
2017	8702		10
2018	8876		10
2019	9053		10
2020	9235	<b>C</b>	10
2021	9419		10
2022	9608		11
2023	9800		11
2024	9996		11
2025	10196		11
2026	10400	<b>D</b>	11
2027	10608		12
2028	10820		12
2029	11036		12
2030	11257	<b>E</b>	12
2031	11482		13
2032	11712		13
2033	11946		13
2034	12185		13
2035	12428		14

\*-From classification count of outside lanes, assumed same truck volumes in inside lanes







Volumes for: Wednesday, May 06, 2015

City: Vallejo

Project #: 15-7374-001

Location: Oakwood Avenue between Skyline Drive and Woodson Way

Start Time	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	1	53			4	43				
12:15	1	51			3	57				
12:30	3	62			5	53				
12:45	2	138	7	304	1	78	13	231	20	535
1:00	1	114			4	100				
1:15	1	100			2	83				
1:30	2	77			2	62				
1:45	3	93	7	384	0	49	8	294	15	678
2:00	3	78			1	119				
2:15	1	52			1	71				
2:30	4	57			2	53				
2:45	0	56	8	243	2	75	6	318	14	561
3:00	0	64			3	65				
3:15	1	59			0	61				
3:30	1	52			1	51				
3:45	1	57	3	232	0	68	4	245	7	477
4:00	0	56			1	63				
4:15	1	52			0	62				
4:30	3	74			4	59				
4:45	3	76	7	258	1	80	6	264	13	522
5:00	8	68			5	53				
5:15	7	80			11	57				
5:30	4	75			9	69				
5:45	8	62	27	285	13	70	38	249	65	534
6:00	14	57			14	82				
6:15	10	63			12	51				
6:30	13	61			25	49				
6:45	18	49	55	230	17	52	68	234	123	464
7:00	33	64			26	39				
7:15	74	38			46	42				
7:30	145	39			111	39				
7:45	114	49	366	190	121	44	304	164	670	354
8:00	76	32			72	39				
8:15	53	35			46	33				
8:30	84	32			50	27				
8:45	90	34	303	133	74	37	242	136	545	269
9:00	55	20			75	23				
9:15	30	15			38	19				
9:30	39	16			35	13	0			
9:45	37	15	161	66	44	17	192	72	353	138
10:00	43	18			40	8				
10:15	55	13			32	12				
10:30	38	10			32	12				
10:45	39	12	175	53	39	16	143	48	318	101
11:00	32	8			44	7				
11:15	51	3			34	6				
11:30	44	8			47	7				
11:45	45	4	172	23	65	6	190	26	362	49
Total	1291	2401	1291	2401	1214	2281	1214	2281	2505	4682
Combined Total	3692		3692		3495		3495		7187	
AM Peak	7:15 AM				7:15 AM					
Vol.	409				350					
P.H.F.	0.705				0.723					
PM Peak	12:45 PM				12:45 PM					
Vol.	429				323					
P.H.F.	0.819				0.808					
Percentage	35.0%	65.0%			34.7%	65.3%				