# Transportation Impact Report NewBridge Specific Plan

prepared for: Sacramento County Community Development PERD

Prepared by DKS Associates

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### 1. INTRODUCTION

#### **1.1 STUDY DEFINITION**

This transportation analysis discusses existing and cumulative transportation and circulation conditions associated with the implementation of the NewBridge Specific Plan development. In addition, the report discusses the combined effects of implementing the following four developments (FOUR PROJECTS):

- West Jackson Highway Master Plan (West Jackson)
- Jackson Township Specific Plan (Jackson Township)
- NewBridge Specific Plan (NewBridge)
- Mather South Specific Plan Amendment (Mather South)

The FOUR PROJECTS are located adjacent to each other in the Jackson Road corridor. Because of this proximity and the concurrent entitlement process, the transportation analysis addresses the combined effects of the FOUR PROJECTS on existing and cumulative transportation and circulation conditions.

Figure 1.1 illustrates the location of the NewBridge project. The NewBridge project is located in unincorporated Sacramento County, generally east of the City of Sacramento and south of the City of Rancho Cordova and Mather Airport. It is bounded on the south by Jackson Road (SR 16), on the east by Sunrise Boulevard, and on the north by existing and future Kiefer Boulevard. The western boundary is located west of Eagles Nest Road.

For more details of the West Jackson, Jackson Township, and Mather South projects, please refer to Section 4.1.

Other development projects in the vicinity are included in the California Environmental Quality Act (CEQA) cumulative analysis scenarios and are discussed in Section 6.1.1.

The transportation analysis documented in this report includes consideration of vehicular traffic impacts on roadway and intersection capacity and safety, transit impacts, and bicycle and pedestrian facility impacts. Quantitative transportation analyses have been conducted for the following scenarios, summarized in Table 1.1:

- Existing (without FOUR PROJECTS)
- Existing Plus NewBridge Project
- Existing Plus FOUR PROJECTS (West Jackson, Jackson Township, NewBridge, and Mather South developments)
- MTP Cumulative (without FOUR PROJECTS)
- MTP Cumulative Plus FOUR PROJECTS
- CEQA Cumulative (without FOUR PROJECTS)
- CEQA Cumulative Plus FOUR PROJECTS
- CEQA Cumulative Plus NewBridge Project

The scenarios followed by the notation "(without FOUR PROJECTS)" contain no development, beyond existing levels, within the boundaries of the West Jackson, Jackson Township, NewBridge, and Mather South projects.



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# Legend

- Freeways
- Other Major Roadways

### Name

NewBridge Project



Mather Airport



Table 1.1: Analysis Scenarios							
Scenario	Land Use	Base Transportation Network	<b>Project Improvements</b>				
Existing	Existing	Existing	None				
Existing Plus NewBridge	Existing Plus NewBridge	Existing	NewBridge Project				
Existing Plus FOUR PROJECTS	Existing Plus West Jackson, Jackson Township, New Bridge, and Mather South	Existing	West Jackson Project Jackson Township Project NewBridge Project Mather South Project				
MTP Cumulative	2035 Development Levels without FOUR PROJECTS	Year 2035 (Based on 2012 MTP)	None				
MTP Cumulative Plus FOUR PROJECTS	2035 Development Levels plus West Jackson, Jackson Township, New Bridge, and Mather South	Year 2035 (Based on 2012 MTP)	West Jackson Project Jackson Township Project NewBridge Project Mather South Project				
CEQA Cumulative	2035 Development Levels (SACOG Projections), Build Out of Additional Readily Foreseeable Projects in Study Area, without FOUR PROJECTS	Year 2035 (Based on 2012 MTP) Plus Improvements Fully Funded by Additional Readily Foreseeable Projects in Study Area	None				
CEQA Cumulative Plus FOUR PROJECTS	2035 Development Levels (SACOG Projections), Build Out of Additional Readily Foreseeable Projects in Study Area, plus West Jackson, Jackson Township, New Bridge, and Mather South	Year 2035 (Based on 2012 MTP) Plus Improvements Fully Funded by Additional Readily Foreseeable Projects in Study Area	West Jackson Project Jackson Township Project NewBridge Project Mather South Project				
CEQA Cumulative Plus NewBridge Project Estimation of NewBridge Project Impacts based upon CEQA Cumulative Plus FOUR PROJECTS scenario							
Source: DKS Associates, 2014.							

#### **1.2** STUDY AREA

For transportation analysis purposes, a set of existing, proposed, and future intersections, roadway segments, and freeway facilities were selected based upon the anticipated volume of additional traffic, the distributional patterns of traffic, and known locations of operational difficulty. The Sacramento County Department of Transportation, Caltrans, City of Sacramento, City of Rancho Cordova, City of Elk Grove, City of Folsom, and Capital Southeast Corridor Joint Powers Authority were consulted. Figures 1.2 through 1.4 illustrate the study area, which was agreed to by all of the above jurisdictions and agencies.

#### **1.3** ANALYSIS METHODOLOGY

#### **1.3.1** Forecasting

In this transportation analysis, the forecasting of travel patterns and volumes for each of the scenarios was developed through utilization of the Sacramento Area Council of Governments' (SACOG's) SACSIM travel model. SACSIM is an "activity-based" model that tracks the travel of individuals throughout the day in trip "tours", and allocates household and employment to the parcel level. This allows the model to capture smaller-scale land use changes and differences. SACSIM is sensitive to the local physical environment, including the presence (or absence) of pedestrian and bicycle facilities, the patterns of local street networks (e.g., grid vs. cul-de-sacs), and the density, proximity and mix of surrounding land uses (i.e. employment destinations, schools, retail, parks, etc.). SACSIM forecasts automobile, transit, bicycle, and walk trips. SACSIM requires a detailed definition of household population/demographics and employment by type at a parcel-level of geography. During the analysis, SACOG staff assisted in developing household population and demographics within the study area, and was consulted to ensure consistency with the latest and most appropriate modeling procedures and databases.

#### **<u>1.3.2</u>** Operations Analysis

Field reconnaissance was undertaken to ascertain the traffic control and capacity characteristics of each of the study area intersections, roadway segments, and freeway elements. Combined with known or projected traffic volumes, these characteristics enable the calculation of performance measures. Levels of service are a quantitative stratification of performance measures that represent quality of service. There are six levels of service, ranging from A to F. LOS A represents the best operating conditions from the traveler's perspective and LOS F the worst. The specific performance measures that define LOS vary by type of transportation facility, and are discussed in the following sections.



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# Legend

- Study Roadway Segments
- Other Project Roadways
- Freeways
- Other Major Roadways
- NewBridge Project

Cities

Mather Airport





### FIGURE 1.3 FREEWAY STUDY AREA

### Legend

Freeway Study Area

Study Roadway Segments

Other Project Roadways

Freeways

Other Major Roadways

NewBridge Project

Cities

Mather Airport





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### FIGURE 1.4 STUDY AREA MAP INTERSECTIONS

# Legend

# **Study Intersections**

- Existing
- Future Outside Project Boundaries
- Shared Between Two Projects
- West Jackson
- Jackson Township
- NewBridge
- Mather South
- Study Roadways
- Freeways
- Other Major Roadways
- NewBridge Project
- Cities
  - Mather Airport



#### 1.3.2.1 Roadway Segment Analysis

Level of service analyses were conducted for roadway segments in the study area based upon daily traffic volumes, number of traffic lanes between intersections, and roadway characteristics. In this methodology, study area roadways are stratified into "capacity class" categories for level of service determination, as shown in Tables 1.2 and 1.3, for Sacramento County and the City of Sacramento, respectively. The Sacramento County criteria were also utilized for segments in the City of Rancho Cordova and City of Elk Grove, as these jurisdictions utilize the same roadway segment level of service criteria.

The capacity class categories are based upon the nature of traffic flow along the facility, including number of interruptions due to intersection control and "side-friction" due to driveways and local streets. For each capacity class, relationships were developed between daily traffic volumes and roadway level of service.

Tables 1.2 and 1.3 summarize the maximum daily traffic volumes associated with each level of service designation and capacity class combination. Although the segment-based level of service calculations are based upon daily traffic volumes, the resultant levels of service are representative of peak hour conditions. While a roadway segment's daily capacity could theoretically be very high if traffic were spread evenly throughout the 24-hour period, this is clearly not a realistic condition. The daily roadway segment capacity methodology takes into account typical peak hour volume profiles, as well as the effects of signalized intersections in reducing the roadway's carrying capacity. With good signal timing, spacing, and additional intersection capacity improvements (e.g. additional turn lanes, overlap phasing), a segment would be able to carry more vehicles than one having less-than-ideal intersection conditions.

#### **1.3.2.2 Intersection Analysis**

For signalized and unsignalized intersections, operational analyses were conducted using a methodology outlined in the Transportation Research Board's *Highway Capacity Manual, 2000* (HCM 2000) and *Highway Capacity Manual, 2010* (HCM 2010). The HCM 2010 methodology was used in all locations except where signalized intersection characteristics deemed the methodology inappropriate. These locations include intersections with unconventional signal phasing, and locations adjacent to light rail tracks where additional delay occurs due to light rail operations. In the selected locations, the HCM 2000 methodology was employed.

The methodology utilized is known as an "operational analysis". This procedure calculates an average control delay per vehicle for each movement at an intersection, and assigns a level of service designation based upon the average delay per vehicle. Table 1.4 presents the level of service criteria for signalized and unsignalized intersections based on the HCM methodology.

Table 1.2: Daily Volume Threshold For Roadway Segments (Sacramento County)							
Number         Daily Volume Threshold (Level of Service)						Service)	
Roadway Capacity Class	of Lanes	LOS A	LOS B	LOS C	LOS D	LOS E	
Residential	2	600	1,200	2,000	3,000	4,500	
Residential Collector with Frontage	2	1,600	3,200	4,800	6,400	8,000	
Residential Collector without Frontage	2	6,000	7,000	8,000	9,000	10,000	
Arterial, Low Access Control	2	9,000	10,500	12,000	13,500	15,000	
	4	18,000	21,000	24,000	27,000	30,000	
	6	27,000	31,500	36,000	40,500	45,000	
Arterial, Moderate Access	2	10,800	12,600	14,400	16,200	18,000	
Control	4	21,600	25,200	28,800	32,400	36,000	
	6	32,400	37,800	43,200	48,600	54,000	
Arterial, High Access Control	2	12,000	14,000	16,000	18,000	20,000	
	4	24,000	28,000	32,000	36,000	40,000	
	6	36,000	43,000	48,000	54,000	60,000	
Rural, 2-lane Highway	2	2,400	4,800	7,900	13,500	22,900	
Rural, 2-lane Road, 24' - 36' of pavement, Paved Shoulders	2	2,200	4,300	7,100	12,200	20,000	
Rural, 2-lane Road, 24' - 36' of pavement, No Shoulders	2	1,800	3,600	5,900	10,100	17,000	
Roadway Capacity Class	Stops per Mile		Driveways		Speed		
Arterial, Low Access Control	4 +		Frequent		25 – 35 mph		
Arterial, Moderate Access Control	2-4		Limited		35 – 45 mph		
Arterial, High Access Control	1 - 2		None		45 – 55 mph		
Note:LOS = level of serviceSource:Traffic Impact Analysis Guidelines, County of Sacramento Department of Transportation, July 2004.							

Table 1.3: Daily Volume Threshold For Roadway Segments (City of Sacramento)							
Number         Daily Volume Threshold (Level of Service)						ervice)	
Roadway Capacity Class	of Lanes	LOS A	LOS B	LOS C	LOS D	LOS E	
Arterial, Low Access Control	2	9,000	10,500	12,000	13,500	15,000	
	4	18,000	21,000	24,000	27,000	30,000	
	6	27,000	31,500	36,000	40,500	45,000	
Arterial, Moderate Access	2	10,800	12,600	14,400	16,200	18,000	
Control	4	21,600	25,200	28,800	32,400	36,000	
	6	32,400	37,800	43,200	48,600	54,000	
Arterial, High Access Control	2	12,000	14,000	16,000	18,000	20,000	
	4	24,000	28,000	32,000	36,000	40,000	
	6	36,000	43,000	48,000	54,000	60,000	
Collector, minor	2	5,250	6,125	7,000	7,875	8,750	
Residential	2	3,000	3,500	4,000	4,500	5,000	
Roadway Capacity Class	Stops po	er Mile	Drive	eways	Spe	eed	
Arterial, Low Access Control	4 +		Frequent		25 – 35 mph		
Arterial, Moderate Access Control	2-4		Limited		35 – 45 mph		
Arterial, High Access Control	1 -	2	No	one	45 – 5	5 mph	
Note:LOS = level of serviSource:City of SacramentoDepartment of Tran	Note:LOS = level of serviceSource:City of Sacramento Traffic Impact Analysis Guidelines, 1996; City of Sacramento, Department of Transportation Staff, 2007.						

Table 1.4: Level of Service Criteria (Intersections)						
Level of Service (LOS)	Total Delay Per Vehicle (seconds)					
	Signalized Intersections	Unsignalized Intersections				
А	<u>≤</u> 10	≤ 10				
В	$> 10 \text{ and } \le 20$	> 10 and <u>&lt;</u> 15				
С	$> 20$ and $\leq 35$	> 15 and <u>&lt;</u> 25				
D	$> 35$ and $\leq 55$	$> 25$ and $\leq 35$				
Е	$> 55$ and $\leq 80$	$> 35 \text{ and } \le 50$				
F	> 80	> 50				
Source: HCM 2010 Highway Capacity Manual, Transportation Research Board, Washington,						

D.C., 2010.

#### 1.3.2.3 Traffic Signal Warrant Analysis

Traffic signals are valuable devices for the control of motor vehicle, pedestrian, and bicycle traffic. However, because they assign the right-of-way to the various traffic movements, signals exert a profound influence on traffic flow. Properly located and operated control signals may provide for the orderly movement of traffic (motor vehicle, pedestrian, and bicycle), increase the traffic-handling capacity of an intersection, and reduce the frequency of certain types of crashes. After extensive study and analysis, the Federal Highway Administration and Caltrans developed traffic signal warrants. These warrants define minimum conditions under which signal installations may be justified. Traffic control signals should not be installed unless one or more of the signal warrants are met. However, the satisfaction of a warrant or warrants is not in itself justification for a signal. Every situation is unique and warrant guidelines must be supplemented by the review of specific site conditions and the application of good engineering judgment. Installation of a traffic signal should improve the overall safety and/or operation of an intersection and should be considered only when deemed necessary by careful traffic analysis and after less restrictive solutions have been attempted.

#### 1.3.2.4 Freeway Analysis

Freeway mainline segments, ramp junctions, and weaving segments were analyzed utilizing methodologies outlined in the HCM 2010. Table 1.5 presents the level of service criteria for the freeway mainline, freeway ramp junctions, and freeway weaving segments.

#### **1.4** LEVEL OF SERVICE POLICIES

For analysis purposes, each of the study area roadway segments, intersections, and freeway elements was assigned to a particular jurisdiction (County of Sacramento, City of Sacramento, City of Rancho Cordova, City of Elk Grove, City of Folsom, or Caltrans) for purposes of specifying acceptable traffic operating conditions (level of service) and standards of significance for impact determination. In cases where transportation elements are located on a jurisdictional boundary, the more conservative (e.g., LOS D rather than LOS E) policy was utilized.

#### **<u>1.4.1 County of Sacramento</u>**

The County of Sacramento has the following level of service policy:

Plan and design the roadway system in a manner that meets Level of Service (LOS) D on rural roadways and LOS E on urban roadways, unless it is infeasible to implement project alternatives or mitigation measures that would achieve LOS D on rural roadways or LOS E on urban roadways. The urban areas are those areas within the Urban Service Boundary as shown in the Land Use Element of the Sacramento County General Plan. The areas outside the Urban Service Boundary are considered rural.<sup>1</sup>

<sup>1</sup> Sacramento County General Plan, amended November 9, 2011, Circulation Element Policy CI-9.

Table 1.5: Level of Service Criteria (Freeway)							
Level	Maximum Density (Passenger Cars Per Mile Per Lane)						
of Service (LOS)	Mainline	Ramp Junctions	Weaving Segments				
А	<u>&lt;</u> 11	<u>&lt;</u> 10	<u>&lt;</u> 10				
В	> 11 and <u>&lt;</u> 18	> 10 and $\leq$ 20	> 10 and $\leq$ 20				
С	> 18 and <u>&lt;</u> 26	> 20 and $\leq$ 28	> 20 and $\leq$ 28				
D	> 26 and <u>&lt;</u> 35	> 28 and <u>&lt;</u> 35	> 28 and <u>&lt;</u> 35				
Е	> 35 and <u>&lt;</u> 45	> 35	> 35				
F	> 45	Demand Exceeds Capacity	Demand Exceeds Capacity				

*Source:* HCM 2010 Highway Capacity Manual, Transportation Research Board, Washington, D.C., 2010.

The county roadway segments and intersections in the study area are located within the Urban Service Boundary. Therefore, the LOS E standard applies.

#### **<u>1.4.2 City of Sacramento</u>**

The Mobility Element of the City of Sacramento 2030 General Plan outlines goals and policies that coordinate the transportation and circulation system with planned land uses. The City of Sacramento has the following level of service policy relevant to this study:

**Policy M 1.2.2** LOS Standard. The City shall allow for flexible Level of Service (LOS) standards, which will permit increased densities and mix of uses to increase transit ridership, biking, and walking, which decreases auto travel, thereby reducing air pollution, energy consumption, and greenhouse gas emissions.

•••

- b. <u>Level of Service Standard for Multi-Modal Districts</u> The City shall seek to maintain the following standards in the Central Business District, in areas within <sup>1</sup>/<sub>2</sub> mile walking distance of light rail stations, and in areas designated for urban scale development (Urban Centers, Urban Corridors, and Urban Neighborhoods as designated in the Land Use and Urban Form Diagram). These areas are characterized by frequent transit service, enhanced pedestrian and bicycle systems, a mix of uses, and higher density development.
  - Maintain operations on all roadways and intersections at LOS A-E at all times, including peak travel times, unless maintaining this LOS would, in the City's judgment, be infeasible and/or conflict with the achievement of other goals. LOS F conditions may be acceptable, provided that provisions are made to improve the overall system and/or promote non-vehicular transportation and transit as part of a development project or a City-initiated project.
- c. <u>Base Level of Service Standard</u> the City shall seek to maintain the following standards for all areas outside of multi-modal districts.
  - Maintain operations on all roadways and intersections at LOS A-D at all times, including peak travel times, unless maintaining this LOS would, in the City's judgment, be infeasible and/or conflict with the achievement of other goals. LOS E or F conditions may be accepted, provided that provisions are made to improve the overall system and/or promote non-vehicular transportation as part of a development project or a City-initiated project.

- d. Roadways Exempt from Level of Service Standard The above LOS standards shall apply to all roads, intersections, or interchanges within the City except as specified below. If a Traffic Study is prepared and identifies a significant LOS impact to a roadway or intersection that is located within one of the roadway corridors described below, the project would not be required in that particular instance to widen roadways in order for the City to find project conformance with the General Plan. Instead, General Plan conformance could still be found if the project provides improvements to other parts of the city wide transportation system in order to improve transportation-system-wide roadway capacity, to make intersection improvements, or to enhance non-auto travel modes in furtherance of the General Plan goals. The improvements would be required within the project site vicinity or within the area affected by the project's vehicular traffic With the provision of such other transportation infrastructure impacts. improvements, the project would not be required to provide any mitigation for vehicular traffic impacts to the listed road segment in order to conform to the General Plan.
  - 12th/14th Avenue: State Route 99 to 36th Street
  - 24th Street: Meadowview Road to Delta Shores Circle
  - 65th Street: Folsom Boulevard to 14th Avenue
  - Alhambra Boulevard: Folsom Boulevard to P Street
  - Arcade Boulevard: Marysville Boulevard to Del Paso Boulevard
  - Arden Way: Capital City Freeway to Ethan Way
  - Blair Avenue/47th Avenue: S. Land Park Drive to Freeport Boulevard
  - Broadway: 15th Street to Franklin Boulevard
  - Broadway: 58th to 65th Streets
  - El Camino Avenue: Stonecreek Drive to Marysville Boulevard
  - El Camino Avenue: Capital City Freeway to Howe Avenue
  - Elder Creek Road: 65th Street to Power Inn Road
  - Florin Perkins Road: 14th Avenue to Elder Creek Road
  - Florin Road: Greenhaven Drive to I-5; 24th Street to Franklin Boulevard
  - Folsom Boulevard: 34th Street to Watt Avenue
  - Freeport Boulevard: Broadway to Seamas Avenue
  - Fruitridge Road: Franklin Boulevard to SR 99
  - Garden Highway: Truxel Road to Northgate Boulevard
  - Howe Avenue: American River Drive to Folsom Boulevard
  - J Street: 43rd Street to 56th Street
  - Mack Road: Meadowview Road to Stockton Boulevard
  - Martin Luther King Boulevard: Broadway to 12th Avenue
  - Marysville Boulevard: I-80 to Arcade Boulevard
  - Northgate Boulevard: Del Paso Road to SR 160
  - Raley Boulevard: Bell Avenue to I-80
  - Roseville Road: Marconi Avenue to I-80

- Royal Oaks Drive: SR 160 to Arden Way
- Truxel Road: I-80 to Gateway Park<sup>2</sup>

#### **<u>1.4.3 City of Rancho Cordova</u>**

The City General Plan Circulation Element has the following level of service policy:

**Policy C.1.2** - Seek to maintain operations on all roadways and intersections at Level of Service D or better at all times, including peak travel times, unless maintaining this Level of Service would, in the City's judgment, be infeasible and / or conflict with the achievement of other goals. Congestion in excess of Level of Service D may be accepted in these cases, provided that provisions are made to improve traffic flow and / or promote non-vehicular transportation as part of a development project of a City-initiated project.<sup>3</sup>

#### 1.4.4 City of Elk Grove

The City General Plan Circulation Element has the following level of service policy:

*CI-13* - The City shall require that all roadways and intersections in Elk Grove operate at a minimum Level of Service "D" at all times.<sup>4</sup>

#### 1.4.5 City of Folsom

Policy 17.17 of the City of Folsom General Plan identifies the minimum acceptable level of service for traffic operations in the City. Specifically, this policy states:

The City should strive to achieve at least a traffic Level of Service 'C' throughout the City.<sup>5</sup>

As part of the Folsom South of U.S. Highway 50 Specific Plan, the level of service policy for the portion of the City of Folsom to be located south of US 50 is amended as follows:

The City should strive to achieve at least a traffic Level of Service "C" within the Folsom South of US 50 Specific Plan. For roadways and intersections within the Specific Plan, LOS "D" conditions may be considered on a case by case basis if improvements required to meet LOS "C" exceeds the "normally accepted maximum" improvements established by the City.<sup>6</sup>

<sup>2</sup> Sacramento 2030 General Plan, Master Environmental Impact Report, Certified March 3, 2009.

<sup>3</sup> City of Rancho Cordova General Plan Circulation Element, June 26, 2006.

<sup>4</sup> Elk Grove General Plan Circulation Element, Adopted November 19, 2003, Reflects Amendments through July 22, 2009.

<sup>5</sup> City of Folsom General Plan, 1993.

<sup>6</sup> Folsom South of U.S. Highway 50 Specific Plan DEIR/DEIS, June 2010.

#### 1.4.6 Caltrans

The standards for Caltrans' facilities in the study area are detailed in the U.S. 50 Corridor System Management Plan (CSMP)<sup>7</sup> and the SR 16 Route Concept Report<sup>8</sup>. Typical Concept LOS standards in Caltrans District 3 are LOS "D" in rural areas and LOS "E" in urban areas. The 20-Year Concept LOS for U.S. 50 in the study area is LOS F, because improvements necessary to improve the LOS to E are not feasible due to environmental, right-of-way, financial, and other constraints. Although the US 50 CSMP allows LOS F, standards of significance hold that any increase in volume would constitute an impact. For SR 16, LOS E is considered the minimum acceptable operating condition.

#### **1.5** SIGNIFICANCE CRITERIA

In accordance with CEQA, the effects of a project are evaluated to determine if they will result in a significant adverse impact on the environment. The standards of significance in this analysis are based upon current practice of the appropriate regulatory agencies.

#### **1.5.1 Roadways Segments and Intersections**

Table 1.6 summarizes the significance criteria for intersections and roadway segments for Sacramento County, the City of Sacramento, the City of Rancho Cordova, the City of Elk Grove, and the City of Folsom.

#### **1.5.2 Freeway Facilities**

Caltrans considers the following to be significant impacts:

- Off-ramps with vehicle queues that extend into the ramp's deceleration area or onto the freeway.
- Project traffic increases that cause any ramp's merge / diverge level of service to be worse than the freeway's level of service.
- Project traffic increases that cause the freeway level of service to deteriorate beyond level of service threshold defined in the Caltrans Route Concept Report for the facility.
- The expected ramp queue is greater than the storage capacity.

<sup>7</sup> Highway 50 Corridor System Management Plan, May 2009.

<sup>8</sup> Transportation Corridor Concept Report, State Route 16, June 26, 2012.

Table 1.6: Level of Service Standards and Thresholds of Significance								
Jurisdiction	Area	LOS Policy	Thresholds of Significance					
			Signalized Intersection	Unsignalized Intersection	Roadway Segment	Notes		
County of Sacramento	Inside Urban Service Boundary	Е	> 5 seconds (intersection average)	> 5 seconds (movement / approach) and meet traffic signal warrant	> .05 V/C			
	Outside Urban Service Boundary	D						
City of Sacramento	Base	D			≥.02 V/C	Deficient LOS may be accepted		
	Exempt Areas	E/F	$\geq$ 5 second	s (intersection average)		provided provisions are made to improve the overall system and / or promote non-vehicular transportation		
City of Elk Grove	All	D	$\geq$ 5 seconds (intersection average)		≥ .05 V/C			
City of Folsom	Base	C						
	South of US 50 Specific Plan	D	$\geq$ 5 second	s (intersection average)	Not Applicable			
City of Rancho Cordova	All	D	> 5 seconds (intersection average)	<ul> <li>&gt; 5 seconds (movement</li> <li>/ approach) and meet</li> <li>traffic signal warrant</li> </ul>	>.05 V/C			

Sources: Traffic Impact Analysis Guidelines, County of Sacramento, July 2004; Sacramento 2030 General Plan, Master Environmental Impact Report, Certified March 3, 2009; Elk Grove General Plan Circulation Element, Adopted November 19, 2003, Reflects Amendments through July 22, 2009; City of Folsom General Plan, 1993; Folsom South of U.S. Highway 50 Specific Plan DEIR/DEIS, June 2010; City of Rancho Cordova General Plan Circulation Element, June 26, 2006.

Note: V/C refers to volume-to-capacity ratio.

#### **1.5.3 Bicycle and Pedestrian Facilities**

Impacts to bicycle and pedestrian facilities are considered significant if the proposed project would:

- Eliminate or adversely affect an existing bikeway or pedestrian facility in a way that would discourage its use;
- Interfere with the implementation of a planned bikeway as shown in the Bicycle Master Plan, or be in conflict with the Pedestrian Master Plan; or
- Result in unsafe conditions for bicyclists or pedestrians, including unsafe bicycle / pedestrian, bicycle / motor vehicle, or pedestrian / motor vehicle conflict.

#### 1.5.4 Transit

Impacts to the transit system are considered significant if the proposed project would:

- Adversely affect public transit operations; or,
- Fail to adequately provide access to transit.

#### **1.5.5 Rural Roadway Functionality**

Of specific concern in the study area of this project is the functionality of substandard rural roadways. The County's current rural roadway standard consists of two-twelve foot wide travel lanes and six-foot wide paved shoulders. Therefore, any rural roadway not fitting this definition can be considered substandard.

Many of the existing rural roadways in the study area have travel lanes as narrow as 10 feet wide with no roadside shoulders. These roadways were constructed many years ago and tended to serve as roadway connections between small towns and communities and to serve as farm to market roadways. While these narrow roadways have adequately served the travel demand of the historical past, they are not intended to serve the greater travel demands that nearby residential and commercial development may impose.

The County expects that the functionality of these roadways will change with nearby development, the increase in population, the introduction of various modes of travel in the study area, and the addition of project traffic on these substandard roadways. No longer will these roadways only serve farm to market and small communities. With these changes in functionality of the roadway comes the possibility of increased interactions between varying modes of travel (i.e. pedestrians, bicyclists, etc.) as well as the increased interaction between a greater number of vehicles on substandard roads.

General Plan Policy CI-1 states *Provide complete streets to provide safe and efficient access to a diversity of travel modes for all urban, suburban and rural land uses within Sacramento County.* Within rural areas of the County, a complete street may be accommodated through roadway shoulders of sufficient width or other means to accommodate all modes of travel.

General Plan Policy CI-7 states *Plan and construct transportation facilities as delineated on the Transportation Plan of the Sacramento County General Plan. Transportation facilities shall be consistent with the Sacramento County, Municipal Services Agency Improvement Standards...* 

General Plan Policy CI-10 states Land development projects shall be responsible to mitigate the project's adverse impacts to local and regional roadways.

Therefore, the County has applied an impact standard to these substandard roadways as follows:

Impacts to substandard rural roadway functionality are considered significant if the proposed project would:

- Cause the substandard rural roadway to exceed an average daily traffic volume of 6,000 daily vehicles; or
- Add 600 or more new daily vehicle trips to a substandard rural roadway that already carries 6,000 or more daily vehicles.

Significant impacts shall be mitigated by requiring reconstruction of the substandard rural roadway to the County standard of 12-foot vehicle lanes with 6-foot paved shoulders.

#### **1.6 DEVELOPMENT OF MITIGATION MEASURES**

This transportation analysis includes the development of mitigation measures for those impacts that have been determined to exceed the level of service policies. Important considerations in the development of such mitigation measures are feasibility, consistency with the General Plan and secondary impacts. While most impacts could theoretically be mitigated by adding more traffic lanes, grade separations, new roadways, and other similar measures, such mitigation may not be consistent with public policy, and could result in secondary impacts to the environment and other users.

The Sacramento County General Plan Circulation Element provides guidance regarding the development of mitigation measures. In particular, the Circulation Element specifies the maximum number of through lanes for major County roadways. The General Plans of the other jurisdictions in the study area provide similar guidance. In general, for those impacts that exceed the level of service policies, mitigation measures have been developed for the widening of roadway segments to accommodate additional travel lanes up to the maximum number of lanes designated in the general plans.

Similarly, the County and other jurisdictions have typical intersection cross-sections. In general, on each approach to an intersection on a four-lane or six-lane roadway, the typical cross-section includes two left turn lanes, the appropriate number of through lanes (two or three), and a single right turn lane. Exceptions to the typical intersection geometry will be considered on a case-by-case basis and in special circumstances. Mitigation measures that exceed the typical intersection geometry will be noted as so.

In the development of mitigation measures, the number of roadway segment lanes and intersection lanes has been expanded, where appropriate, to reduce impacts. In most cases, the mitigation measure does not exceed the maximum number of roadway lanes identified in the General Plans nor exceeds the typical intersection geometry. In some cases, mitigation measures consistent with the General Plan and the typical intersection geometry may not reduce the impact consistent with the level of service policies. In these cases, an alternative mitigation measure may be considered that may necessitate an amendment to the County's General Plan or deviate from the typical intersection geometry. In other cases where the roadway is already constructed to the full General Plan designation or an intersection is already constructed to the standard intersection geometry and no alternative mitigation measure is feasible, no mitigation measure may be available to reduce the impacts.

#### **1.7 HIGH CAPACITY INTERSECTIONS**

The Sacramento County General Plan recognizes that at-grade intersections may not be able to accommodate all traffic demands along the County's busiest roadways. In selected locations, the General Plan designates High Capacity Intersections. A high capacity intersection would utilize special treatments to increase the capacity of the intersection to reduce congestion and travel delay. Since each intersection has unique travel movements, volumes and existing context sensitive conditions, the special treatments utilized at each high capacity intersection will vary to meet the specific needs of each intersection. The range of special treatments is quite wide, ranging from the restriction of certain turning movements to various combinations that could include grade separating certain movements. Special treatments such as the following could be utilized at a high capacity intersection:

- Restricting turning movements
- Median U-turns
- Roundabouts
- Split intersections
- Quadrant roadway intersections
- Bowtie intersections
- Directional flyovers
- Center turn overpass
- Grade separated roundabout
- Diverging diamond grade separation
- Compact diamond grade separation
- Single point urban grade separation
- Traditional urban grade separation

Implementation of a high capacity intersection treatment could result in secondary impacts, including right-of-way, pedestrian and bicycle impacts, restrictions to local access, fiscal, and many others. As there are many possible solutions that would provide an acceptable LOS at any location, each with related impacts, this transportation analysis cannot identify specific high capacity intersection solutions. While high capacity intersections could theoretically mitigate any of the identified LOS impacts, the feasibility of such measures has not been established at this time.

### 2. EXISTING CONDITIONS

#### 2.1 ROADWAY SYSTEM

Figure 2.1 illustrates the existing roadway network.

#### 2.1.1 Regional Access

Regional automobile access to the site is provided by the freeway system and by State Route 16.

**U.S. Highway 50** (US 50) is an east-west freeway that extends from the Interstate 80 (I-80) junction in West Sacramento to Canal Street in the City of Placerville, where it continues as a highway across the Sierra Nevada to South Lake Tahoe and Nevada. Primary access to US 50 is via a series of interchanges, including (from west to east) Howe Avenue, Watt Avenue, Bradshaw Road, Mather Field Road, and Sunrise Boulevard. To the west, US 50 provides access to Central City Sacramento, SR 99, I-5, and I-80. To the east, US 50 provides access to eastern Sacramento County, the cities of Rancho Cordova and Folsom, and El Dorado County.

**State Route 16** (SR 16) is a Caltrans facility. In the vicinity of the site, SR 16 is located on **Jackson Road**, which is the southern boundary of the NewBridge project site. The roadway generally travels from west-northwest to east-southeast from Folsom Boulevard to the west into Amador County to the east. It is generally a two-lane roadway with some widening at intersections. To the west, SR 16 continues to US 50 via Folsom Boulevard and Howe Avenue in the City of Sacramento.

#### 2.1.2 Local Access

Direct access to the site is provided primarily via Eagles Nest Road, Kiefer Boulevard, and Sunrise Boulevard.

**Eagles Nest Road** is a north-south roadway that crosses the NewBridge project site. The roadway begins at Kiefer Boulevard, and extends southerly to Grant Line Road. It is a two-lane roadway.

**Kiefer Boulevard** is an east-west roadway that forms the northern boundary of the NewBridge project site. The roadway consists of two segments, divided by Mather Field. The western segment extends from Florin-Perkins Road in the City of Sacramento through the Rosemont community to Happy Lane. This segment has two to four through lanes. East of Mather Field, the roadway begins at Eagles Nest Road and continues easterly to Jackson Road as a two-lane roadway.

**Sunrise Boulevard** is a north-south roadway that forms the eastern boundary of the NewBridge project site. As the Folsom South Canal parallels Sunrise Boulevard within the NewBridge project site, direct site access is limited to a proposed commercial parcel at Jackson Road





### FIGURE 2.1 **EXISTING CONDITIONS ROADWAY NETWORK**

### Legend

SOM







#### 2.2 TRANSIT SYSTEM

The Sacramento Regional Transit District (RT) operates 67 bus routes and 38.6 miles of light rail covering a 418 square-mile service area. Buses and light rail run 365 days a year using 76 light rail vehicles, 182 buses (with an additional 30 buses in reserve) powered by compressed natural gas (CNG) and 11 shuttle vans. Buses operate daily from 5 a.m. to 11 p.m. every 12 to 75 minutes, depending on the route. Light rail trains begin operation at 4 a.m. with service every 15 minutes during the day and every 30 minutes in the evening and on weekends. Blue Line and Gold Line trains operate until 12:30 a.m. and the Gold Line to Folsom operates until 7 p.m. Green Line trains operate every 30 minutes Monday through Friday.

Passenger amenities include 50 light rail stops or stations, 31 bus and light rail transfer centers and 18 park-and-ride lots. RT also serves over 3,300 bus stops throughout Sacramento County.<sup>9</sup>

Figure 2.2 illustrates selected RT service near the NewBridge project site. The RT Gold Line light rail service is located parallel to Folsom Boulevard north of the NewBridge project site. Nearby stations include (from west to east) Watt / Manlove, Starfire, Tiber, Butterfield, Mather Field / Mills, Zinfandel, Cordova Town Center, and Sunrise. No RT bus routes operate in the vicinity of the site.

#### 2.3 BICYCLE SYSTEM

Figure 2.3 illustrates the Sacramento County Bikeway Master Plan in the vicinity of the NewBridge project site, depicting existing and planned bikeways. A Class I Bikeway, parallel to the Folsom South Canal, traverses the site.

#### 2.4 PEDESTRIAN SYSTEM

The pedestrian sidewalk system is incomplete within the NewBridge project site and in many areas in the vicinity of the NewBridge project site. As development occurs, sidewalks are being installed along many roadways in the area. With the exception of those locations where such improvements have already occurred, pedestrian access in the immediate vicinity of the NewBridge project is limited to roadway shoulders, where such shoulders exist.

#### 2.5 TRAFFIC VOLUMES

Peak period (7:00 to 9:00 a.m. and 4:00 to 6:00 p.m.) intersection turning movement counts were collected on Tuesdays, Wednesdays, and Thursdays in April and Early May, 2013 for the existing intersections in the study area. Peak hour counts (a.m. and p.m.) are illustrated in the technical appendix.

Daily (24-hour) segment counts were collected on Tuesdays, Wednesdays, and Thursdays in April and Early May, 2013 for the existing segments in the study area. The existing daily traffic volumes are summarized later in Section 2.6.1 of this report.

<sup>9</sup> http://www.sacrt.com/rtataglance.stm Accessed 14 February 2014.


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## FIGURE 2.2 STUDY AREA TRANSIT NETWORK EXISTING CONDITIONS

## Legend

- Route 72 (Rosemont Lincoln Village)
- Route 76 (Anatolia Shuttle)

Cities

DOUGLAS RD

CHRYSANTHY

Mather Airport



## FIGURE 2.3 EXISTING BICYCLE NETWORK



Peak period traffic volumes on the US 50 freeway system (mainline and ramps) were obtained from the California Freeway Performance Measurement System (PeMS). Data recorded on April 16 through 18, 2013, and April 23 through 25, 2013 were utilized in these analyses. Peak hour volumes are summarized later in Section 2.6.3 of this report, and in the technical appendix.

#### 2.6 EXISTING OPERATING CONDITIONS

Figure 2.4 summarizes existing roadway operating conditions.

#### 2.6.1 Roadway Segments

Level of service analyses were also conducted for the roadway segments in the study area based upon daily traffic volumes, number of traffic lanes between intersections, and roadway characteristics. Table 2.1 summarizes the roadway levels of service, and the performance of the segment compared to the level of service policies of the assigned jurisdiction.

The following segments do not meet the level of service policies:

- Bradshaw Road US 50 to Lincoln Village Drive
- Elk Grove Florin Road Florin Road to Gerber Road
- Folsom Boulevard Howe Avenue to Jackson Road
- Grant Line Road Calvine Road to Bond Road
- South Watt Avenue Jackson Road to Florin Road
- Sunrise Boulevard US 50 to Trade Center Drive
- Sunrise Boulevard Kiefer Boulevard to Jackson Road
- Watt Avenue US 50 to Folsom Boulevard

#### 2.6.2 Intersections

Existing intersection geometry (number of approach lanes and traffic control) is illustrated in the technical appendix.

Table 2.2 summarizes the existing a.m. and p.m. peak hour operating conditions at the study area intersections, and the performance of the segment compared to the level of service policies of the assigned jurisdiction. At two-way stop unsignalized intersections, Sacramento County determines conformity with the level of service policy on an approach / movement basis, while the City of Sacramento utilizes a calculation of the average intersection level of service (similar to signalized intersections and all-way stop intersections). Details of the intersection operating condition calculations are included in the technical appendix.



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### FIGURE 2.4 EXISTING CONDITIONS ROADWAY SEGMENT AND INTERSECTION LOS

## Legend

### Intersections (AM Peak Hour)

- LOS A-D
- LOS E
- LOS F

### Intersections (PM Peak Hour)

- LOS A-D
- LOS E
- LOS F

### **Roadway Segments**

- LOS A-D
- LOS E
- LOS F
- Cities
  - Mather Airport



		Seg	ment						Existing		
ID	Roadway	From	То	Jurisdiction	Governing Jurisdiction / Area <sup>1</sup>	LOS Policy Criteria	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service
1	Bradshaw Rd	Folsom Blvd	US 50	Rancho Cordova/County	Rancho Cordova	D	6	Arterial M	20,592	0.38	А
2	Bradshaw Rd	US 50	Lincoln Village Dr	Rancho Cordova/County	Rancho Cordova	D	6	Arterial M	52,590	0.97	Е
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd	Rancho Cordova/County	Rancho Cordova	D	6	Arterial M	42,787	0.79	С
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd	County	County Urban	Е	6	Arterial M	38,984	0.72	С
5	Bradshaw Rd	Goethe Rd	Kiefer Blvd	County	County Urban	E	4	Arterial M	28,651	0.80	С
6	Bradshaw Rd	Kiefer Blvd	Jackson Rd	County	County Urban	E	4	Arterial M	30,726	0.85	D
7	Bradshaw Rd	Jackson Rd	Elder Creek Rd	County	County Urban	E	4	Arterial M	22,871	0.64	В
8	Bradshaw Rd	Elder Creek Rd	Florin Rd	County	County Urban	E	4	Arterial M	22,265	0.62	В
9	Bradshaw Rd	Florin Rd	Gerber Rd	County	County Urban	E	4	Arterial M	22,883	0.64	В
10	Bradshaw Rd	Gerber Rd	Calvine Rd	County	County Urban	Е	4	Arterial M	16,984	0.47	А
11	Calvine Rd	Waterman Rd	Bradshaw Rd	Elk Grove/County	Elk Grove	D	4	Arterial M	16,015	0.44	А
12	Calvine Rd	Bradshaw Rd	Vineyard Rd	Elk Grove/County	Elk Grove	D	4	Arterial M	12,395	0.34	А
13	Calvine Rd	Vineyard Rd	Excelsior Rd	Elk Grove/County	Elk Grove	D	2	Arterial M	6,036	0.34	А
14	Chrysanthy Blvd	Sunrise Blvd	Rancho Cordova Pkwy	Rancho Cordova/County	Rancho Cordova	D	4	Arterial M	3,411	0.09	А
15	Douglas Rd	Mather Blvd	Zinfandel Dr	County	County Urban	E	2	Arterial M	6,635	0.37	А
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	Rancho Cordova/County	Rancho Cordova	D	2	Arterial M	8,369	0.46	А
17	Douglas Rd	Sunrise Blvd	Rancho Cordova Pkwy	Rancho Cordova	Rancho Cordova	D	5	Arterial M	3,674	0.10	А
18	Douglas Rd	Rancho Cordova Pkwy	Grant Line Rd	Rancho Cordova	Rancho Cordova	D	2	Arterial M	3,674	0.20	А
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	County	County Urban	E	2	Arterial M	740	0.04	А
20	Eagles Nest Rd	Jackson Rd	Florin Rd	County	County Urban	E	2	Arterial M	517	0.03	А
21	Eagles Nest Rd	Florin Rd	Grant Line Rd	County	County Urban	E	2	Arterial M	189	0.01	А
22	Elder Creek Rd	65th St	Power Inn Rd	City of Sacramento	City Exempt Roadway	Е	4	Arterial M	17,891	0.50	А
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd	City of Sacramento	City Default	D	2	Arterial M	15,734	0.87	D
24	Elder Creek Rd	Florin Perkins Rd	South Watt Ave	City of Sacramento	City Default	D	2	Arterial M	11,092	0.62	В
25	Elder Creek Rd	South Watt Ave	Hedge Ave	County	County Urban	Е	2	Arterial M	5,576	0.31	А
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	County	County Urban	Е	2	Arterial M	5,797	0.32	А
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	County	County Urban	Е	2	Arterial M	5,355	0.30	А
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd	County	County Urban	Е	2	Arterial M	2,158	0.12	А
29	Elk Grove-Florin Rd	Florin Rd	Gerber Rd	County	County Urban	E	2	Arterial M	22,960	1.28	F
30	Excelsior Rd	Kiefer Blvd	Jackson Rd	County	County Urban	E	2	Arterial M	3,716	0.21	А
31	Excelsior Rd	Jackson Rd	Elder Creek Rd	County	County Urban	E	2	Arterial M	5,075	0.28	Α
32	Excelsior Rd	Elder Creek Rd	Florin Rd	County	County Urban	E	2	Arterial M	4,203	0.23	A
33	Excelsior Rd	Florin Rd	Gerber Rd	County	County Urban	E	2	Arterial M	5,423	0.30	A



		Seg	ment						Existing		
ID	Roadway	From	То	Jurisdiction	Governing Jurisdiction / Area <sup>1</sup>	LOS Policy Criteria	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service
34	Excelsior Rd	Gerber Rd	Calvine Rd	County	County Urban	Е	2	Arterial M	4,229	0.23	А
35	Excelsior Rd	Calvine Rd	Sheldon Rd	Elk Grove	Elk Grove	D	2	Arterial M	4,473	0.25	А
36	Florin Rd	Stockton Blvd	Power Inn Rd	County	County Urban	Е	4	Arterial M	27,495	0.76	С
37	Florin Rd	Power Inn Rd	Florin-Perkins Rd	County	County Urban	Е	4	Arterial M	21,595	0.60	А
38	Florin Rd	Florin-Perkins Rd	So Watt Ave/ Elk Grove Florin Rd	County	County Urban	Е	4	Arterial M	14,163	0.39	А
39	Florin Rd	South Watt Ave	Hedge Ave	County	County Urban	Е	2	Arterial M	7,718	0.43	А
40	Florin Rd	Hedge Ave	Mayhew Rd	County	County Urban	Е	2	Arterial M	6,312	0.35	А
41	Florin Rd	Mayhew Rd	Bradshaw Rd	County	County Urban	Е	2	Arterial M	6,317	0.35	А
42	Florin Rd	Bradshaw Rd	Excelsior Rd	County	County Urban	Е	2	Arterial M	3,478	0.19	А
43	Florin Rd	Excelsior Rd	Sunrise Blvd	County	County Urban	Е	2	Arterial M	3,835	0.21	А
44	Folsom Blvd	Howe Ave	Jackson Rd	City of Sacramento	City Exempt Roadway	Е	4	Arterial M	37,516	1.04	F
45	Fruitridge Rd	65th St	Power Inn Rd	City of Sacramento	City Default	D	4	Arterial M	16,634	0.46	А
46	Fruitridge Rd	Power Inn Rd	Florin Perkins Rd	City of Sacramento	City Default	D	4	Arterial M	15,214	0.42	А
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave	City of Sacramento	City Default	D	2	Arterial M	10,280	0.57	А
48	Fruitridge Rd	South Watt Ave	Hedge Ave	City of Sacramento/ County	City Default	D	2	Arterial M	2,890	0.16	А
49	Fruitridge Rd	Hedge Ave	Mayhew Rd	County	County Urban	Е	2	Arterial M	1,790	0.10	А
50	Grant Line Rd	White Rock Rd	Douglas Rd	Rancho Cordova/County	Rancho Cordova	D	2	Rural NS	7,189	0.42	D
51	Grant Line Rd	Douglas Rd	Kiefer Blvd	Rancho Cordova/County	Rancho Cordova	D	2	Rural S	6,143	0.31	С
52	Grant Line Rd	Kiefer Blvd	Jackson Rd	Rancho Cordova/County	Rancho Cordova	D	2	Rural S	5,758	0.29	С
53	Grant Line Rd	Jackson Rd	Sunrise Blvd	County	County Urban	Е	2	Rural S	14,720	0.74	Е
54	Grant Line Rd	Sunrise Blvd	Calvine Rd	County	County Urban	E	2	Rural S	14,812	0.74	Е
55	Grant Line Rd	Calvine Rd	Sheldon Rd	Elk Grove/County	Elk Grove	D	2	Rural S	13,140	0.66	Ε
56	Grant Line Rd	Sheldon Rd	Wilton Rd	Elk Grove	Elk Grove	D	2	Rural S	17,459	0.87	Ε
57	Grant Line Rd	Wilton Rd	Bond Rd	Elk Grove	Elk Grove	D	2	Rural S	16,064	0.80	Ε
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	County	County Urban	E	2	Rural S	4,635	0.23	С
59	Hedge Ave	Jackson Rd	Fruitridge Rd	County	County Urban	Е	2	Arterial M	3,061	0.17	А
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	City of Sacramento/County	County Urban	E	2	Arterial M	3,737	0.21	А
61	Hedge Ave	Elder Creek Rd	Florin Rd	County	County Urban	Е	2	Arterial M	2,722	0.15	А
62	Howe Ave	US 50	Folsom Blvd	City of Sacramento	City Exempt Roadway	Е	6	Arterial M	53,849	1.00	Е
63	International Dr	Mather Field Rd	Zinfandel Dr	Rancho Cordova	Rancho Cordova	D	6	Arterial M	17,500	0.32	Α
64	International Dr	Zinfandel Dr	Sunrise Blvd	Rancho Cordova	Rancho Cordova	D	6	Arterial M	8,802	0.16	A



		Seg	ment						Existing		
ID	Roadway	From	То	Jurisdiction	Governing Jurisdiction / Area <sup>1</sup>	LOS Policy Criteria	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service
65	Jackson Rd	Folsom Blvd	Florin Perkins Rd	City of Sacramento	City Exempt Light Rail	Е	2	Arterial M	12,358	0.69	В
66	Jackson Rd	Florin Perkins Rd	South Watt Ave	City of Sacramento/County	City Exempt Light Rail	Е	2	Arterial M	10,414	0.58	А
67	Jackson Rd	South Watt Ave	Hedge Ave	County	County Urban	Е	2	Arterial M	17,060	0.95	Е
68	Jackson Rd	Hedge Ave	Mayhew Rd	County	County Urban	Е	2	Arterial M	12,616	0.70	С
69	Jackson Rd	Mayhew Rd	Bradshaw Rd	County	County Urban	Е	2	Arterial M	14,996	0.83	D
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	County	County Urban	Е	2	Arterial M	13,030	0.72	С
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	County	County Urban	Е	2	Rural Hwy	10,478	0.46	D
72	Jackson Rd	Eagles Nest Rd	Sunrise Blvd	County	County Urban	Е	2	Rural Hwy	9,976	0.44	D
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	Rancho Cordova/County	Rancho Cordova	D	2	Rural Hwy	13,306	0.58	D
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	City of Sacramento/County	City Exempt Light Rail	Е	2	Arterial M	4,616	0.26	А
75	Kiefer Blvd	South Watt Ave	Mayhew Rd	County	County Urban	Е	4	Arterial M	18,668	0.52	А
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd	County	County Urban	Е	4	Arterial M	9,274	0.26	А
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	County	County Urban	Е	2	Arterial M	4,618	0.26	А
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	County	County Urban	Е	2	Arterial M	656	0.04	А
79	Kiefer Blvd	Sunrise Blvd	Rancho Cordova Pkwy	Rancho Cordova	Rancho Cordova	D	2	Arterial M	2,786	0.15	А
80	Mather Blvd / Norden Ave	Von Karman St	Bleckely St	Rancho Cordova	Rancho Cordova	D	4	Arterial M	4,373	0.12	А
81	Mather Blvd	Bleckely St	Femoyer St	Rancho Cordova	Rancho Cordova	D	4	Arterial M	4,373	0.12	А
82	Mather Blvd	Femoyer St	Douglas Rd	Rancho Cordova/County	Rancho Cordova	D	2	Arterial M	4,373	0.24	А
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd	County	County Urban	Е	2	Res Collector F	6,751	0.84	Е
84	Mather Field Rd	US 50	Rockingham Dr	Rancho Cordova	Rancho Cordova	D	6	Arterial M	37,755	0.70	В
85	Mather Field Rd	Rockingham Dr	International Dr	Rancho Cordova	Rancho Cordova	D	6	Arterial M	37,520	0.69	В
86	Mather Field Rd	International Dr	Peter A McCuen Blvd	Rancho Cordova	Rancho Cordova	D	4	Arterial M	14,857	0.41	А
87	Mayhew Rd	Folsom Blvd	Goethe Rd	County	County Urban	Е	2	Arterial M	6,977	0.39	А
88	Mayhew Rd	Goethe Rd	Kiefer Blvd	County	County Urban	Е	2	Arterial L	6,593	0.44	А
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	County	County Urban	Е	2	Arterial L	1,616	0.11	А
90	Old Placerville Rd	Bradshaw Rd	Granby Dr	Rancho Cordova/County	Rancho Cordova	D	4	Arterial M	15,800	0.44	А
91	Old Placerville Rd	Granby Dr	Happy Ln	Rancho Cordova/County	Rancho Cordova	D	2	Arterial M	13,573	0.75	С
92	Old Placerville Rd	Happy Ln	Routier Rd	Rancho Cordova/County	Rancho Cordova	D	2	Arterial M	10,710	0.60	A
93	Old Placerville Rd	Routier Rd	Rockingham Dr	Rancho Cordova/County	Rancho Cordova	D	4	Arterial M	10,710	0.30	А



		Seg	ment						Existing		
ID	Roadway	From	То	Jurisdiction	Governing Jurisdiction / Area <sup>1</sup>	LOS Policy Criteria	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service
94	Power Inn Rd	Folsom Blvd	14th Ave	City of Sacramento	City Exempt Light Rail	Е	6	Arterial M	36,175	0.67	В
95	Rockingham Dr	Old Placerville Rd	Mather Field Rd	Rancho Cordova	Rancho Cordova	D	4	Arterial M	19,881	0.55	А
96	South Watt Ave	Folsom Blvd	Kiefer Blvd	County	County Urban	Е	6	Arterial M	40,920	0.76	С
97	South Watt Ave	Kiefer Blvd	Jackson Rd	County	County Urban	Е	5	Arterial M	32,415	0.90	E
98	South Watt Ave	Jackson Rd	Fruitridge Rd	City of Sacramento/County	City Default	D	2	Arterial M	25,832	1.44	F
99	South Watt Ave	Fruitridge Rd	Elder Creek Rd	City of Sacramento/County	City Default	D	2	Arterial M	21,567	1.20	F
100	South Watt Ave	Elder Creek Rd	Florin Rd	City of Sacramento/County	City Default	D	2	Arterial M	19,069	1.06	F
101	Sunrise Blvd	US 50	Folsom Blvd	Rancho Cordova	Rancho Cordova	D	7	Arterial M	54,500	1.01	F
102	Sunrise Blvd	Folsom Blvd	Trade Center Dr	Rancho Cordova	Rancho Cordova	D	6	Arterial M	49,500	0.92	Е
103	Sunrise Blvd	Trade Center Dr	White Rock Rd	Rancho Cordova	Rancho Cordova	D	6	Arterial M	34,571	0.64	В
104	Sunrise Blvd	White Rock Rd	Douglas Rd	Rancho Cordova	Rancho Cordova	D	6	Arterial M	25,811	0.48	А
105	Sunrise Blvd	Douglas Rd	Kiefer Blvd	Rancho Cordova/County	Rancho Cordova	D	5	Arterial M	21,878	0.61	В
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd	Rancho Cordova/County	Rancho Cordova	D	2	Arterial M	16,894	0.94	Е
107	Sunrise Blvd	Jackson Rd	Florin Rd	County	County Urban	Е	2	Rural S	11,181	0.56	D
108	Sunrise Blvd	Florin Rd	Grant Line Rd	County	County Urban	Е	2	Rural S	7,752	0.39	D
109	Vineyard Rd	Gerber Rd	Calvine Rd	County	County Urban	Е	2	Arterial M	5,515	0.31	А
110	Watt Ave	US 50	Folsom Blvd	City of Sacramento/County	City Exempt Light Rail	Е	6	Arterial H	65,242	1.09	F
111	White Rock Rd	International Rd	Quality Dr	Rancho Cordova	Rancho Cordova	D	2	Arterial M	3,962	0.22	А
112	White Rock Rd	Quality Dr	Zinfandel Dr	Rancho Cordova	Rancho Cordova	D	4	Arterial M	11,200	0.31	А
113	White Rock Rd	Zinfandel Dr	Kilgore Rd	Rancho Cordova	Rancho Cordova	D	6	Arterial M	14,756	0.27	А
114	White Rock Rd	Kilgore Rd	Sunrise Blvd	Rancho Cordova	Rancho Cordova	D	5	Arterial M	14,756	0.41	А
115	White Rock Rd	Sunrise Blvd	Fitzgerald Rd	Rancho Cordova	Rancho Cordova	D	4	Arterial M	15,433	0.43	А
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	Rancho Cordova/County	Rancho Cordova	D	2	Rural NS	2,490	0.15	В
117	White Rock Rd	Grant Line Rd	Prairie City Rd	County	County Urban	Е	4	Arterial M	9,400	0.26	А
118	Zinfandel Dr	US 50	White Rock Rd	Rancho Cordova	Rancho Cordova	D	7	Arterial M	45,228	0.84	D
119	Zinfandel Dr	White Rock Rd	International Rd	Rancho Cordova	Rancho Cordova	D	6	Arterial M	17,923	0.33	А
120	Zinfandel Dr	International Rd	Baroque Dr	Rancho Cordova	Rancho Cordova	D	6	Arterial M	7,595	0.14	А
121	Zinfandel Dr	Baroque Dr	City Limit	Rancho Cordova	Rancho Cordova	D	4	Arterial M	7,595	0.21	А
122	Zinfandel Dr	City Limit	Douglas Rd	County	County Urban	Е	2	Arterial M	7,595	0.42	А
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	County	County Urban	Е	2	Arterial M	2,848	0.16	Α



		Seg	ment						Existing		
ID	Roadway	From	То	Jurisdiction	Governing Jurisdiction / Area <sup>1</sup>	LOS Policy Criteria	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage



Tabl	e 2.2									
Exis	ting Intersection Levels of Serv	vice								
	•				AM P	eak Ho	our	PM P	eak Ho	ur
	Intersection	Jurisdiction	Governing	LOS Policy	Ex	isting		Ex	isting	
			Jurisdiction / Area '	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)
1	Howe Ave & College Town Dr/US 50 WB Ramps	City of Sacramento	City Exempt Roadway	E	Signal	D	36.6	Signal	D	44.4
2	Howe Ave & US 50 EB Ramps	City of Sacramento	City Exempt Roadway	Е	Signal	В	16.9	Signal	С	20.5
3	Power Inn Rd/Howe Ave & Folsom Blvd	City of Sacramento	City Exempt Roadway	E	Signal	D	39.1	Signal	D	55.0
4	Power Inn Rd & 14th Ave	City of Sacramento	City Default	D	Signal	С	31.5	Signal	D	39.6
5	Power Inn Rd & Fruitridge Rd	City of Sacramento	City Default	D	Signal	D	43.4	Signal	С	33.5
6	Jackson Rd/Notre Dame Dr. & Folsom Blvd.	City of Sacramento	City Exempt Roadway	E	Signal	D	36.8	Signal	С	32.1
7	Florin Perkins Rd/Julliard Dr. & Folsom Blvd	City of Sacramento	City Exempt Roadway	E	Signal	D	39.0	Signal	Е	55.6
8	Florin Perkins Rd & Kiefer Blvd.	City of Sacramento	City Exempt Light Rail	Е	Two-way stop	А	2.8	Two-way stop	А	3.2
	Westbound Left Turn					С	20.1		С	23.3
	Westbound Right Turn					В	13.3		В	12.6
	Southbound Left Turn					Α	10.0		В	10.9

Tabl	e 2.2									
Exis	ting Intersection Levels of Serv	vice								
					AM F	Peak Ho	our	PM P	eak Ho	ur
	Intersection	Jurisdiction	Governing	LOS Policv	E	kisting		E	isting	
			Jurisdiction / Area '	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)
9	Florin Perkins Rd & Jackson Rd	City of Sacramento	City Exempt Light Rail	Е	Signal	D	51.5	Signal	D	54.1
10	Florin Perkins Rd & Fruitridge Rd	City of Sacramento	City Exempt Roadway	Е	Signal	С	25.1	Signal	С	25.4
11	Florin Perkins Rd & Elder Creek Rd	City of Sacramento	City Exempt Roadway	E	Signal	С	25.7	Signal	С	26.2
12	Watt Ave & Folsom Blvd.	County	County Urban	Е	Signal	Е	66.2	Signal	Е	71.9
13	S. Watt Ave. & Reith Ct/Manlove Rd	County	County Urban	Е	Signal	В	19.6	Signal	D	54.1
14	S. Watt Ave & Kiefer Blvd.	County	County Urban	E	Signal	Е	56.0	Signal	Е	75.9
15	S. Watt Ave & Canberra Dr.	County	County Urban	Е	Signal	В	11.5	Signal	А	9.7
16	S. Watt Ave & Jackson Rd	County	County Urban	Е	Signal	Е	62.5	Signal	Е	66.4
17	S. Watt Ave & Fruitridge Rd	City of Sacramento / County	City Default	D	Signal	D	38.1	Signal	D	41.7
18	S. Watt Ave & Elder Creek Rd	City of Sacramento / County	City Default	D	Signal	Е	62.7	Signal	Е	68.8

Tab	e 2.2									
Exis	ting Intersection Levels of Serv	vice								
					AM P	eak Ho	our	PM P	eak Ho	our
	Intersection	Jurisdiction	Governing	LOS Policy	Ex	isting		Ex	isting	
			Jurisdiction / Area '	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)
20	Elk Grove Florin Rd/S. Watt Ave. & Florin Rd	County	County Urban	Е	Signal	D	54.7	Signal	D	51.8
21	Elk Grove Florin Rd & Gerber Rd	County	County Urban	E	Signal	D	49.1	Signal	E	64.6
23	Hedge Ave & Jackson Rd	County	County Urban	Е	Signal	D	35.1	Signal	D	37.3
24	Hedge Ave & Fruitridge Rd	County	County Urban	E	All-way stop	В	13.6	All-way stop	А	9.4
25	Hedge Ave & Elder Creek Rd	County	County Urban	E	All-way stop	С	15.9	All-way stop	В	11.6
26	Hedge Ave & Tokay Lane	County	County Urban	Е	Two-way stop	А	0.4	Two-way stop	А	0.2
	Northbound Left Turn			Е		Α	0.0		Α	0.0
	Southbound Left Turn			Е		Α	8.0		Α	7.3
	Eastbound			Е		В	12.2		В	10.2
	Westbound			Е		В	11.1		Α	9.6
27	Hedge Ave & Florin Rd	County	County Urban	E	All-way stop	В	12.9	All-way stop	В	11.1
28	Mayhew Rd & Kiefer Blvd	County	County Urban	E	Signal	D	48.6	Signal	D	51.1

Tab	e 2.2									
Exis	ting Intersection Levels of Serv	vice								
					AM P	eak Ho	our	PM P	eak Ho	our
	Intersection	Jurisdiction	Governing	LOS Policv	Ex	isting		Ex	isting	
			Jurisdiction / Area '	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)
29	Mayhew Rd & Jackson Rd	County	County Urban	E	Two-way stop	А	1.8	Two-way stop	A	1.9
	Northbound Through - Left Turn			Е		D	27.6		D	34.0
	Northbound Right Turn			Е		В	11.8		С	15.0
	Southbound			Е		С	18.3		С	24.9
	Eastbound Left Turn			Е		Α	8.9		Α	8.4
	Westbound Left Turn			Е		Α	8.3		Α	9.3
30	Mayhew Rd & Fruitridge Rd	County	County Urban	Е	Two-way stop	А	6.2	Two-way stop	А	5.1
	Northbound Left Turn			Е		Α	0.0		Α	7.4
	Eastbound			Е		Α	9.2		Α	9.2

Tabl	e 2.2									
Exis	ting Intersection Levels of Serv	vice								
					AM P	eak Ho	ur	PM P	eak Ho	ur
	Intersection	Jurisdiction	Governing	LOS Policy	Ex	isting		Ex	isting	
			Jurisdiction / Area	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)
31	Mayhew Rd & Elder Creek Rd	County	County Urban	E	Two-way stop	A	0.2	Two-way stop	A	0.3
	Northbound			Е		В	11.9		В	10.9
	Southbound			Е		В	11.1		Α	9.8
	Eastbound Left Turn			Е		Α	8.3		Α	7.6
	Westbound Left Turn			Е		Α	7.5		Α	0.0
32	Woodring Dr & Zinfandel Dr				Two-way stop	А	5.9	Two-way stop	A	3.0
	Eastbound					Α	9.3		Α	9.3
	Northbound Left Turn					Α	0.0		Α	0.0
33	Bradshaw Rd & Folsom Blvd.	City of Rancho Cordova / County	Rancho Cordova	D	Signal	Е	56.7	Signal	D	49.9
34	Bradshaw Rd & US 50 WB Ramps	City of Rancho Cordova / County	Rancho Cordova	D	Signal	В	15.9	Signal	В	15.2
35	Bradshaw Rd & US 50 EB Ramps	City of Rancho Cordova / County	Rancho Cordova	D	Signal	С	24.4	Signal	В	16.0
36	Bradshaw Rd & Old Placerville Rd	City of Rancho Cordova / County	Rancho Cordova	D	Signal	D	45.9	Signal	D	52.0
37	Bradshaw Rd & Kiefer Blvd	County	County Urban	Е	Signal	D	45.7	Signal	Е	66.2

Tabl	e 2.2									
Exis	ting Intersection Levels of Serv	vice						-		
					AM P	eak Ho	our	PM P	eak Ho	our
	Intersection	Jurisdiction	Governing	LOS Policy	Ex	isting		Ex	isting	
			Jurisdiction / Area '	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)
38	Bradshaw Rd & Jackson Rd	County	County Urban	Е	Signal	Е	73.1	Signal	Е	59.4
39	Bradshaw Rd & Elder Creek Rd	County	County Urban	Е	Signal	D	36.8	Signal	D	36.1
40	Bradshaw Rd & Florin Rd	County	County Urban	E	Signal	D	38.1	Signal	D	53.6
41	Bradshaw Rd & Gerber Rd	County	County Urban	Е	Signal	Е	72.2	Signal	D	49.9
42	Happy Lane & Old Placerville Rd	City of Rancho Cordova / County	Rancho Cordova	D	Two-way stop	А	7.3	Two-way stop	А	4.7
	Northbound Left Turn			D		F	64.8		F	95.9
	Northbound Right Turn			D		D	30.6		С	15.4
	Westbound Left Turn			D		В	10.2		В	10.1
45	Excelsior Rd & Jackson Rd	County	County Urban	E	Signal	D	36.7	Signal	D	40.3
46	Excelsior Rd & Elder Creek Rd	County	County Urban	E	Two-way stop	А	3.5	Two-way stop	А	2.7
	Northbound Left Turn			Е		Α	7.5		Α	8.0
	Eastbound			Е		С	18.6		В	12.3

Table 2.2									
Existing Intersection Levels of Serv	ice								
				AM P	eak Ho	our	PM P	eak Ho	our
Intersection	Jurisdiction	Governing	LOS Policy	Ex	isting		Ex	isting	
		Jurisdiction / Area '	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)
47 Excelsior Rd & Florin Rd	County	County Urban	Е	All-way stop	С	24.9	All-way stop	В	12.5
48 Excelsior Rd & Gerber Rd/Birch Ranch Dr	County	County Urban	E	All-way stop	В	14.0	All-way stop	В	10.6
49 Mather Field Rd & US 50 WB Ramps	City of Rancho Cordova	Rancho Cordova	D	Signal	С	24.7	Signal	A	9.4
50 Mather Field Rd & US 50 EB Ramps	City of Rancho Cordova	Rancho Cordova	D	Signal	С	27.7	Signal	В	13.4
51 Mather Field Rd & Rockingham Dr	City of Rancho Cordova	Rancho Cordova	D	Signal	Е	56.4	Signal	D	54.7
52 Mather Blvd & Douglas Rd	County	County Urban	E	All-way stop	E	39.3	All-way stop	С	15.5
53 Zinfandel Dr & US 50 WB Ramps	City of Rancho Cordova	Rancho Cordova	D	Signal	В	16.4	Signal	D	51.7
54 Zinfandel Dr & US 50 EB Ramps/Gold Center Dr	City of Rancho Cordova	Rancho Cordova	D	Signal	D	40.0	Signal	Е	60.1
55 Zinfandel Dr & White Rock Rd	City of Rancho Cordova	Rancho Cordova	D	Signal	D	47.7	Signal	D	54.7
56 Zinfandel Dr & Data Dr	City of Rancho Cordova	Rancho Cordova	D	Signal	D	49.3	Signal	D	52.9

Tabl Fxis	Table 2.2 Existing Intersection Levels of Service											
		100			AM P	eak Ho	our	PM P	eak Ho	our		
	Intersection	Jurisdiction	Governing	LOS Policy	Ex	isting		Ex	isting			
			Jurisdiction / Area '	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)		
57	Zinfandel Dr & International Dr	City of Rancho Cordova	Rancho Cordova	D	Signal	С	34.0	Signal	D	48.5		
58	Zinfandel Dr & Douglas Rd	County	County Urban	E	Signal	Е	55.5	Signal	D	54.2		
60	Eagles Nest Rd & Jackson Rd	County	County Urban	Е	Two-way stop	А	2.3	Two-way stop	А	3.6		
	Northbound			Е		С	22.0		С	23.8		
	Southbound			Е		В	13.9		С	22.0		
	Eastbound Left Turn			Е		Α	8.8		Α	7.9		
	Westbound Left Turn			Е		Α	7.9		Α	8.7		
61	Eagles Nest Rd & Florin Rd	County	County Urban	Е	Two-way stop	А	2.3	Two-way stop	А	2.6		
	Northbound			Е		В	12.7		В	12.1		
	Southbound			Е		В	10.0		В	10.5		
	Eastbound Left Turn			Е		Α	7.7		Α	7.7		
	Westbound Left Turn			Е		Α	0.0		Α	7.6		
62	Sunrise Blvd & US 50 WB Ramps	City of Rancho Cordova	Rancho Cordova	D	Signal	D	44.7	Signal	В	19.7		
63	Sunrise Blvd & US 50 EB Ramps	City of Rancho Cordova	Rancho Cordova	D	Signal	В	16.9	Signal	В	17.6		

Table 2.2										
Existing Intersection Levels of Serv	vice						214 2			
			LOS			bur	PM P		bur	
Intersection	Jurisdiction	Governing	Policy	Ex	listing		Existing			
			Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	
64 Sunrise Blvd & Folsom Blvd	City of Rancho Cordova	Rancho Cordova	D	Signal	D	54.4	Signal	D	48.6	
65 Sunrise Blvd & White Rock Rd	City of Rancho Cordova	Rancho Cordova	D	Signal	D	47.8	Signal	D	51.6	
66 Sunrise Blvd & International Dr/Monier Circle	City of Rancho Cordova	Rancho Cordova	D	Signal	D	47.8	Signal	D	45.8	
67 Sunrise Blvd & Douglas Rd	City of Rancho Cordova	Rancho Cordova	D	Signal	D	51.7	Signal	D	46.5	
68 Sunrise Blvd & Chrysanthy Blvd	City of Rancho Cordova / County	Rancho Cordova	D	Signal	С	27.0	Signal	С	21.0	
69 Sunrise Blvd & Kiefer Blvd	City of Rancho Cordova / County	Rancho Cordova	D	Signal	D	53.6	Signal	С	27.0	
70 Sunrise Blvd & Jackson Rd	City of Rancho Cordova / County	Rancho Cordova	D	Signal	Е	57.0	Signal	D	47.2	
71 Sunrise Blvd & Florin Rd	County	County Urban	Е	Signal	В	11.3	Signal	D	48.3	
72 Sheldon Lake Dr/Sunrise Blvd & Grant Line Rd	County	County Urban	E	Signal	D	43.2	Signal	D	40.7	
73 Hazel Ave & Tributary Point Dr/US 50 WB Off-ramp	County	County Urban	Е	Signal	С	31.2	Signal	D	41.4	

Table 2.2											
Exis	ting Intersection Levels of Serv	vice									
					AM P	eak Ho	ur	PM P	eak Ho	our	
	Intersection	Jurisdiction	Governing	LOS Policv	Ex	Existing			Existing		
			Jurisdiction / Area	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	
74	Hazel Ave & US 50 EB Ramps	City of Rancho Cordova / County	Rancho Cordova	D	Signal	С	20.6	Signal	С	29.9	
75	Hazel Ave & Folsom Blvd	City of Rancho Cordova / County	Rancho Cordova	D	Signal	D	51.7	Signal	D	46.7	
76	Prairie City Rd & White Rock Rd	City of Folsom / County	Folsom	С	Signal	В	19.2	Signal	В	15.0	
77	Grant Line Rd & White Rock Rd	County	County Urban	Е	Signal	В	10.9	Signal	В	11.2	
78	Grant Line Rd & Douglas Rd	City of Rancho Cordova / County	Rancho Cordova	D	All-way stop	С	15.2	All-way stop	В	12.3	
79	Grant Line Rd & Kiefer Blvd	City of Rancho Cordova / County	Rancho Cordova	D	All-way stop	В	11.4	All-way stop	В	10.5	
80	Grant Line Rd & Jackson Rd	City of Rancho Cordova / County	Rancho Cordova	D	Signal	Е	74.0	Signal	Е	78.9	
81	Watt Ave & US-50 EB Ramps	City of Sacramento / County	City Exempt Light Rail	E	Signal	В	13.0	Signal	В	14.9	
82	Watt Ave & US-50 WB Ramps	City of Sacramento / County	City Default	D	Signal	С	32.9	Signal	С	28.6	
83	Mayhew Rd & Folsom Blvd.	County	County Urban	Е	Signal	В	19.8	Signal	С	20.1	

Table 2.2										
Exis	ting Intersection Levels of Serv	vice								
					AM P	eak Ho	our	PM P	eak Ho	ur
	Intersection	Jurisdiction	Governing	LOS Policy	Ex	isting		Ex	isting	
			Jurisdiction / Area	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)
84	65th Street Expy &Fruitridge Rd	City of Sacramento	City Default	D	Signal	С	31.2	Signal	D	35.3
85	Power Inn Rd & Elder Creek Rd	City of Sacramento	City Exempt Roadway	Е	Signal	D	35.2	Signal	D	36.3
86	Power Inn Rd & Florin Rd	County	County Urban	E	Signal	D	36.3	Signal	D	45.9
87	Florin Perkins Rd & Florin Rd	County	County Urban	Е	Signal	D	36.7	Signal	С	32.5
88	Bradshaw Rd & Calvine Rd	City of Elk Grove / County	Elk Grove	D	Signal	С	30.5	Signal	D	36.9
89	Vineyard Rd & Calvine Rd	City of Elk Grove / County	Elk Grove	D	Signal	С	30.8	Signal	С	34.9
90	Excelsior Rd & Calvine Rd	City of Elk Grove / County	Elk Grove	D	All-way stop	С	16.6	All-way stop	В	13.0
91	Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	County	County Urban	Е	Signal	D	51.7	Signal	D	46.5
92	Grant Line Rd & Calvine Rd	City of Elk Grove / County	Elk Grove	D	Signal	С	21.4	Signal	С	24.0
93	Grant Line Rd & Dwy/Wilton Rd	City of Elk Grove	Elk Grove	D	Signal	Е	65.9	Signal	Е	64.8

Table	2.2										
Existing Intersection Levels of Service											
					AM P	eak Ho	our	PM Peak Hour			
	Intersection	Jurisdiction	Governing	LOS Policy	Existing			Existing			
Intersection			Jurisdiction / Area	Criteria	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	
94 <mark>6</mark> F	Grant Line Rd & Bond Rd/Wrangler Dr	City of Elk Grove	Elk Grove	D	Signal	С	33.3	Signal	D	46.4	
<sup>1</sup> The	following classifications are	used to determine	the applicable LOS Po	olicy:							
Count	ty Rural - Sacramento Count	y, Outside Urban Se	ervice Boundary								
Count	County Urban - Sacramento County, Within Urban Service Boundary										
City Default - City of Sacramento, Base Level of Service Standard											
City Exempt Roadway - City of Sacramento, Roadways Exempt from Base Level of Service Standard											
City I	City Exempt Light Rail - City of Sacramento, Within 1/2 Mile Walking Distance of Light Rail Station										

The following intersections do not meet the level of service policies:

- South Watt Avenue and Elder Creek Road a.m. and p.m. peak hours
- Bradshaw Road and Folsom Boulevard a.m. peak hour
- Happy Lane and Old Placerville Road northbound left turn a.m. and p.m. peak hours
- Mather Field Road and Rockingham Drive a.m. peak hour
- Zinfandel Drive and US 50 Eastbound Ramps / Gold Center Drive p.m. peak hour
- Sunrise Boulevard and Jackson Road a.m. peak hour
- Grant Line Road and Jackson Road a.m. and p.m. peak hours
- Grant Line Road and Wilton Road a.m. and p.m. peak hours

#### 2.6.3 U.S. 50 Freeway

#### 2.6.3.1 Freeway Mainline

Table 2.3 summarizes a.m. and p.m. peak hour US 50 freeway mainline operations. Details of the analysis are included in the technical appendix. The following locations exhibit LOS F conditions:

- Eastbound
  - Stockton Boulevard to 59th Street a.m. and p.m. peak hours
  - Bradshaw Road to Mather Field Road a.m. peak hour
  - Zinfandel Drive to Hazel Avenue p.m. peak hour
- Westbound
  - Mather Field Road to Watt Avenue a.m. peak hour
  - Watt Avenue to 59th Street a.m. and p.m. peak hours
  - 59th Street to SR 51 / SR 99 p.m. peak hour

#### 2.6.3.2 Freeway Ramp Junctions / Weaving

Table 2.4 summarizes a.m. and p.m. peak hour freeway operations at ramp junctions and weaving areas. Details of the analysis are included in the technical appendix. The following locations exhibit LOS F conditions:

- Eastbound
  - Watt Avenue Entrance Merge a.m. peak hour
  - Mather Field Road to Zinfandel Drive weave a.m. peak hour
- Westbound
  - Sunrise Boulevard Entrance a.m. peak hour

#### 2.6.3.3 Freeway Ramp Intersection Queuing

Table 2.5 summarizes a.m. and p.m. peak hour freeway ramp intersection queuing. None of the existing queues extends onto the freeway mainline.

Table 2.3: Existing Peak Hour Freeway Mainline Level of Service											
Direc-		Mixed	А	M Peak Hou	ır	Р	M Peak Hou	ır			
tion	Location	Flow Lanes	Volume	Density	LOS	Volume	Density	LOS			
East-	SR 99 / SR 51 to Stockton Boulevard	5	7,068	23.46	С	6,415	23.33	С			
bound	Stockton Boulevard to 59th Street	5	7,470	35.05	F	7,228	41.46	F			
05 50	59th Street to 65th Street	4	6,767	27.40	D	6,641	28.36	D			
	65th Street to Howe Avenue	5	7,962	28.05	D	7,562	29.71	D			
	Howe Avenue to Watt Avenue	4	7,405	31.77	D	7,602	33.01	D			
	Watt Avenue to Bradshaw Road	4	7,935	27.22	D	7,176	24.80	С			
	Bradshaw Rd to Mather Field Rd	4	7,725	45.10	F	7,366	25.50	С			
	Mather Field Rd to Zinfandel Drive	5	7,275	19.18	С	7,224	20.13	С			
	Zinfandel Drive to Sunrise Blvd	4	5,121	20.08	С	6,649	42.12	F			
	Sunrise Boulevard to Hazel Avenue	3	4,985	27.67	D	5,323	37.30	F			
West-	Hazel Avenue to Sunrise Boulevard	3	6,068	32.91	D	4,370	23.17	С			
bound	Sunrise Blvd to Zinfandel Drive	4	7,502	33.31	D	4,762	19.30	С			
US 50	Zinfandel Drive to Mather Field Rd	5	7,548	21.96	С	5,765	14.85	В			
	Mather Field Rd to Bradshaw Road	4	7,859	44.40	F	6,939	28.66	D			
	Bradshaw Road to Watt Avenue	4	7,488	53.92	F	6,466	32.91	D			
	Watt Avenue to Howe Avenue	5	7,376	53.44	F	6,234	28.04	F			
	Howe Avenue to 65th Street	5	8,157	35.68	F	7,407	41.55	F			
	65th Street to 59th Street	4	8,278	44.85	F	7,358	51.56	F			
	59th Street to Stockton Boulevard	5	9,115	29.39	D	7,945	32.31	F			
Stockton Boulevard to SR 99 / SR 51         5         8,546         31.89         D         8,136         33.25         F											
Density Source:	Density = passenger cars per hour per lane (pc/ph/pl). <b>Bold</b> values denote level of service "F" conditions. Source: DKS Associates, 2014.										

Table 2.4: Existing Peak Hour Freeway Ramp Junction/Weaving Level of Service												
Direc- tion	Location	Junction Type	A.M. P Hou	Peak Ir	P.M. P Hou	Peak Ir						
			Ramp Volume	LOS	Ramp Volume	LOS						
East- bound	Northbound 65th Street Slip Entrance	Weave	765	D	653	C						
US 50	Howe Avenue / Hornet Drive Exit	weave	1,631	D	1,417	C						
	Southbound Howe Avenue Loop Entrance	One-Lane Merge	484	С	881	С						
	Northbound Howe Avenue Slip Entrance	One-Lane Merge	419	С	431	С						
	Watt Avenue Exit	Two-Lane Diverge	1,317	В	1,634	В						
	Watt Avenue Entrance	One-Lane Merge	2,134	F	1,724	D						
	Bradshaw Road Exit	Two-Lane Diverge	1,520	В	1,228	В						
	Southbound Bradshaw Road Loop Entrance	One-Lane Merge	220	С	422	С						
	Northbound Bradshaw Road Slip Entrance	One-Lane Merge	971	С	918	С						
	Mather Field Road Exit	Two-Lane Diverge	1,266	В	1,062	А						
	Southbound Mather Field Road Loop Entrance	One-Lane Merge	125	С	101	В						
	Northbound Mather Field Road Slip Entrance	Weave	317	F	816	С						
	Zinfandel Drive Exit		2,932		1,452							
	Southbound Zinfandel Drive Loop Entrance	One-Lane Merge	182	В	129	С						
	Northbound Zinfandel Drive Slip Entrance	One-Lane Merge	348	В	540	С						
	Sunrise Boulevard Exit	Major Diverge	1,773	С	1,959	D						
	Sunrise Boulevard Entrance	One-Lane Merge	992	С	889	D						
	Hazel Avenue Exit	Two-Lane Diverge	933	В	1,541	С						
	Hazel Avenue Entrance		804	~	945	~						
	Aerojet Road Exit	Weave	241	C	55	C						

Table 2.4: Existing Peak Hour Freeway Ramp Junction/Weaving Level of Service												
Direc- tion	Location	Junction Type	A.M. P Hou	Peak Ir	P.M. P Hou	Peak Ir						
			Ramp Volume	LOS	Ramp Volume	LOS						
West-	Hazel Avenue Exit	Two-Lane Diverge	631	А	869	А						
bound US 50	Northbound Hazel Avenue Loop Entrance	One-Lane Merge	160	В	600	В						
	Southbound Hazel Avenue Slip Entrance	One-Lane Merge	1,550	В	800	В						
	Sunrise Boulevard Exit	One-Lane Diverge	749	Е	758	D						
	Sunrise Blvd Entrance	Lane Addition	2,183	F	1,656	D						
	Zinfandel Drive Exit	One-Lane Diverge	1,034	Е	608	С						
	Northbound Zinfandel Drive Loop Entrance	Lane Addition	585	В	1,197	В						
	Southbound Zinfandel Drive Slip Entrance	One-Lane Merge	442	С	561	В						
	Mather Field Road Exit	One-Lane Drop	1,093	С	556	А						
	Northbound Mather Field Road Loop Entrance	One-Lane Merge	515	В	861	В						
	Southbound Mather Field Road Slip Entrance	One-Lane Merge	387	В	380	В						
	Bradshaw Road Exit	Two-Lane Diverge	1,236	В	1,327	В						
	Northbound Bradshaw Road Loop Entrance	One-Lane Merge	914	D	910	С						
	Southbound Bradshaw Road Slip Entrance	One-Lane Merge	338	D	590	С						
	Watt Avenue Exit	Major Diverge	1,373	D	1,188	С						
	Northbound Watt Avenue Entrance	One-Lane Merge	820	D	943	С						
	Southbound Watt Avenue Slip Entrance	Lane Addition / Weave	1,232	С	1,317	D						
	Howe Avenue Exit	Major Diverge / Weave	1,531	D	1,419	D						
	Northbound Howe Avenue Loop Entrance	One-Lane Merge	654	D	602	С						
	Southbound Howe Avenue Slip Entrance	One-Lane Merge	574	С	574	С						
<b>Bold</b> val	ues denote level of service "F	" conditions.										
Source:	DKS Associates, 2014.											

Table 2.5: Existing Peak Hour Freeway Ramp Termini Queuing										
		Availab	le Storage	Length		Maximu	Im Queue	Length (fe	et / lane)	
			(feet / lane	)	Existing AM Peak Hour			Existing PM Peak Hour		
Direction	US 50 Exit Ramp	L	Т	R	L	Т	R	L	Т	R
Eastbound	Howe Avenue	765	-	765	200	-	378	224	-	247
US-50	Watt Avenue	1,500	-	1,500	179	-	201	254	-	181
	Bradshaw Road	1,250	_	1,250	198	-	509	164	-	414
	Mather Field Road	1,385	_	1,385	207	-	554	271	-	61
	Zinfandel Drive	1,025	1,025	1,025	218	810	746	430	361	131
	Sunrise Boulevard	1,695	-	1,695	283	-	184	360	-	76
	Hazel Avenue	1,310	-	1,310	317	-	76	808	-	29
Westbound	Hazel Avenue	1,9	995	1,995	271		48	281	271	499
US-50	Sunrise Boulevard	1,540	_	1,540	134	_	165	133	-	172
	Zinfandel Drive	1,065	-	1,065	390	-	68	132	-	199
	Mather Field Road	1,335	-	1,335	594	-	538	222	-	97
	Bradshaw Road	1,330	-	1,330	326	-	107	389	-	31
	Watt Avenue	1,480	-	1,480	147	-	448	94	-	425
	Howe Avenue	1,355	1,355	1,355	192	412	123	241	412	239
L = left turn movement, T = through movement, R = right turn movement Source: DKS Associates, 2014.										

#### 2.6.4 Rural Roadway Functionality

Figure 2.5 shows rural roadway segments that currently do not meet the County standard of 12foot vehicle lanes with 6-foot paved shoulders. Sacramento County is currently the only jurisdiction that has policies regarding the functionality of rural roadways, therefore the functionality of rural roadways in other jurisdictions was not considered in the traffic study. Table 2.6 summarizes substandard County rural roadways in the study area.



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# Table 2.6Existing Substandard Roadway Segments

		Seg	ment		Existing Substandard Roadways				
ID	Roadway	From	То	Jurisdiction	Travel Lanes	Pavement (ft)	Substandard? <sup>1</sup>	Existing Volume	
15	Douglas Rd	Mather Blvd	Zinfandel Dr	County	2	23	Yes	6,635	
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	Rancho Cordova/County	2	23	Yes	8,369	
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	County	2	20	Yes	740	
20	Eagles Nest Rd	Jackson Rd	Florin Rd	County	2	<21	Yes	517	
21	Eagles Nest Rd	Florin Rd	Grant Line Rd	County	2	<21	Yes	189	
25	Elder Creek Rd	South Watt Ave	Hedge Ave	County	2	23	Yes	5,576	
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	County	2	23	Yes	5,797	
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	County	2	23	Yes	5,355	
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd	County	2	23	Yes	2,158	
30	Excelsior Rd	Kiefer Blvd	Jackson Rd	County	2	22	Yes	3,716	
31	Excelsior Rd	Jackson Rd	Elder Creek Rd	County	2	<21	Yes	5,075	
32	Excelsior Rd	Elder Creek Rd	Florin Rd	County	2	<21	Yes	4,203	
33	Excelsior Rd	Florin Rd	Gerber Rd	County	2	<21	Yes	5,423	
34	Excelsior Rd	Gerber Rd	Calvine Rd	County	2	<21	Yes	4,229	
39	Florin Rd	South Watt Ave	Hedge Ave	County	2	22	Yes	7,718	
40	Florin Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	6,312	
41	Florin Rd	Mayhew Rd	Bradshaw Rd	County	2	22	Yes	6,317	
42	Florin Rd	Bradshaw Rd	Excelsior Rd	County	2	22	Yes	3,478	
43	Florin Rd	Excelsior Rd	Sunrise Blvd	County	2	22	Yes	3,835	
48	Fruitridge Rd	South Watt Ave	Hedge Ave	City of Sacramento/ County	2	22	Yes	2,890	
49	Fruitridge Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	1,790	
50	Grant Line Rd	White Rock Rd	Douglas Rd	Rancho Cordova/County	2	22	Yes	7,189	
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	County	2	22	Yes	4,635	
59	Hedge Ave	Jackson Rd	Fruitridge Rd	County	2	22	Yes	3,061	
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	City of Sacramento/County	2	22	Yes	3,737	
61	Hedge Ave	Elder Creek Rd	Florin Rd	County	2	22	Yes	2,722	



#### Table 2.6 **Existing Substandard Roadway Segments**

		Segi	nent		I	Existing Subs	standard Roadway	/S
ID	Roadway	From	То	Jurisdiction	Travel Lanes	Pavement (ft)	Substandard? <sup>1</sup>	Existing Volume
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	County	2	26	Yes	13,030
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	County	2	26	Yes	10,478
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	City of Sacramento/County	2	22	Yes	4,616
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	County	2	22	Yes	4,618
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	County	2	22	Yes	656
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd	County	2	22	Yes	6,751
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	County	2	22	Yes	1,616
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	Rancho Cordova/County	2	20	Yes	2,490
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	County	2	<21	Yes	2,848

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

<sup>2</sup> Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT.

<sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.



### 3. EXISTING PLUS NEWBRIDGE PROJECT

#### 3.1 NEWBRIDGE PROJECT DESCRIPTION

As illustrated previously in Figure 1.1, the NewBridge project is located in unincorporated Sacramento County, generally east of the City of Sacramento and south of the City of Rancho Cordova and Mather Airport. It is bounded on the south by Jackson Road (SR 16), on the east by Sunrise Boulevard, and on the north by existing and future Kiefer Boulevard. The western boundary is located west of Eagles Nest Road.

#### 3.1.1 Land Use

 Table 3.1 summarizes the NewBridge project land use.

The SACSIM model (used to estimate travel demand by travel mode) requires estimates of the number and demographics of people who would live in each household as well as key social/economic characteristics of each household. SACOG helped estimate the required household demographics based on the number housing units by density category and detailed local Census data compiled by housing types.

SACSIM also requires employment by type for each parcel in the NewBridge project. The applicant provided number of acres and square feet by non-residential category on each parcel. Employment estimates were then estimated using average square feet per employee and per student. The total employment in the NewBridge project was estimated to be about 1,350.

The model also requires the estimated enrollment at each school within the NewBridge project. The total enrollment for the one elementary school was estimated at about 750 students. Some of those students would come from housing units outside the NewBridge project.

#### 3.1.2 Transportation Network

#### 3.1.2.1 Roadway Segments and Intersections

Figure 3.1 illustrates the NewBridge project transportation network. The NewBridge project would widen and / or complete many roadways that cross or border the site, and would include new roadways to serve the proposed land use. Sections 3.4.1 and 3.4.2 include information regarding the roadway segment and intersection improvements that are considered part of the NewBridge project.

#### 3.1.2.2 Pedestrian and Bicycle Facilities

Figure 3.2 illustrates the proposed bikeway and trail plan of the NewBridge project. Numerous off-street (Class I) multi-purpose trails would be provided to enhance the local and regional active transportation network. Crossing enhancements would be provided at key intersections both internal to the project and on the boundary.

Table 3.1: Land Use Summary for the NewBridge Specific Plan									
		ŀ	Residential		Non-l	Residential			
Land Use Category	Acres	Density Range	Ave Density	Dwelling Units	Floor Area Ratio	Estimated Square Feet			
Low Density	225.2	< 7	4.8	1,085					
Medium Density	107.3	7 - 22.9	8.2	880					
High Density	37.3	23 - 40	25.5	950					
High Density Bonus Units <sup>1</sup>				113					
Commercial	19.2				0.227	190,000			
Mixed Use	11.7	> 30		160	0.255	130,000			
Office	14.0				0.295	180,000			
Park	41.3								
Open Space	471.7								
Elementary School	9.4								
Other Public/Quasi-Public	2.8								
Major Roads	50.0								
Agriculture (Ag Res)	105.4			660		60,000			
Total	1,095.3			3,848		560,000			
<sup>1</sup> Includes bonus units in both the high density and mixed use areas. <i>Source: Project Applicant</i>									





## FIGURE 3.1 **EXISTING PLUS NEWBRIDGE ROADWAY NETWORK**

## Legend

S.OM











## FIGURE 3.2 PROPOSED BIKEWAY AND TRAILS MASTER PLAN

#### 3.1.2.3 Transit System

Consistent with Sacramento County's General Plan policy LU-120, the NewBridge project incorporates higher density land uses and mixed uses along transportation corridors to help support transit use. However, as described in Section 2.2, existing transit service is very limited near the NewBridge project. The transit provider for the area, Sacramento Regional Transit (RT), has developed a long-range transit plan that anticipates three additional high frequency transit lines in the general area by the year 2035. However, even with this additional transit network, the NewBridge project would likely not meet the County's General Plan policy.

To comply with the County's General Plan Policy LU-120, a separate planning effort involving staff from Sacramento County, RT, DKS, and the applicants of the FOUR PROJECTS was conducted to define an appropriate transit network and frequency that could serve the proposed development in the Jackson Corridor consistent with the intent of the County's policies.

An important consideration in the development of a transit network for the Jackson Corridor is that there are four major development projects proposed in the Jackson Corridor (FOUR PROJECTS) The transit planning effort needed to define standalone transit systems for each of the FOUR PROJECTS that would not only serve the transit needs of each of the FOUR PROJECTS independently, but would also serve as cohesive and complementary transit system units that could operate efficiently together should more than one of the FOUR PROJECTS be approved for development.

A series of transit networks and service frequencies were developed and tested using the SACSIM model with the objective of optimizing transit ridership and the number of boardings. Utilizing RT's performance criteria for evaluating the effectiveness of the various transit lines and service frequencies, an optimum transit network and frequency was developed for the Jackson Corridor.

The planning effort resulted in four transit lines that would serve the FOUR PROJECTS in the Jackson Corridor at a frequency of 15 minutes throughout the typical operating hours (approximately 6 AM to 8 PM) on weekdays. Figure 3.3 illustrates the proposed transit system for the NewBridge project, which represents a portion of the ultimate transit system that would serve the FOUR PROJECTS. The combined transit system for the FOUR PROJECTS is discussed and illustrated in Section 4.1.2.3.

The proposed transit system for the NewBridge project has been assumed as an attribute of the NewBridge project and has been included in the traffic modeling for this traffic analysis. The assumed transit routes and service frequency would be required at full development of the NewBridge project. The full level of transit service would not achieve adequate transit ridership during the early stages of development. Thus the ultimate transit service, like the roadway system serving the NewBridge project, must be phased with development of the NewBridge project.



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## FIGURE 3.3 **PROJECT TRANSIT NETWORK** EXISTING PLUS NEWBRIDGE

## Legend

NewBridge Local Route (NB)

Cities

Mather Airport


### **3.2** TRIP GENERATION

The SACSIM model that has been utilized for the transportation forecasts in this analysis estimated trip generation of the NewBridge project. Table 3.2 summarizes the person trip generation. The NewBridge project would generate over 7,000 daily work person trip ends, and over 45,000 daily person trip ends for all trip purposes.

Table 3.3 summarizes the estimated mode choice for the Existing plus NewBridge project scenario. About 88.9 percent of all person trips are expected to be accommodated by automobile. Transit will serve about 1.1 percent of all trips, while walk and bike modes will accommodate about 9.9 percent of all trips. The mode choice assumes full implementation of the project's pedestrian and bicycle systems.

Table 3.4 summarizes the vehicular (auto) trip generation of the NewBridge project. The NewBridge project is estimated to generate over 27,000 daily vehicle trip ends. It should be noted that more than one person trip may be accommodated by a vehicle trip (e.g. carpooling). About 2,400 of the daily vehicle trip ends will be associated with trips with both an origin and destination within the NewBridge project, about 9 percent of the trip ends. The internal trip ends represent about 1,200 daily vehicle trips (one-half the number of internal trip ends). The NewBridge project will generate about 25,000 external vehicle trips that have an origin or destination inside the NewBridge project but the other end of the trip is outside the NewBridge project. Table 3.4 also shows the vehicle trips generated during the a.m. and p.m. peak hours.

### **3.3** TRIP DISTRIBUTION

The distribution of trips associated with development on the NewBridge project site was derived utilizing SACSIM, incorporating the proposed land use and access locations associated with the NewBridge project site. Trip distribution varies by land use and time period. Figure 3.4 illustrates the overall trip distribution of daily NewBridge project trips with the Existing Plus NewBridge project scenario. The highest percentages of NewBridge project traffic are accommodated on Jackson Road and Sunrise Boulevard.

### **3.4 OPERATIONS ANALYSIS AND IMPACTS**

For purposes of this analysis, full development of the NewBridge project is assumed to occur "instantaneously." In this manner, the traffic and impacts associated with the NewBridge project can be directly compared to known and measured conditions. Existing scenario impacts are determined by comparing the traffic operating conditions associated with the NewBridge project with the traffic operating conditions associated with the existing (without development) conditions, and comparing the change to the thresholds of significance. Figure 3.5 illustrates the resultant traffic operating conditions.

Table 3.2: Estimated Daily Person Trip Generation (Existing Plus Project Scenario)         NewBridge Specific Plan										
Trip Purpose   Daily Person Trip Ends										
Work Trips	7,041									
Non-Work Trips	38,001									
All Trip Purposes 45,042										
Source: DKS Associates, 2014.										

# Table 3.3: Mode Split (Existing Plus Project Scenario)NewBridge Specific Plan

	Percen	tage of Person Trips by T	rip Purpose
Mode	Work Trips	Non-Work Trips	All Trip Purposes
Auto - SOV	87.7%	43.8%	50.6%
Auto - HOV	9.3%	43.7%	38.3%
Transit	1.8%	1.0%	1.1%
Walk	0.9%	10.9%	9.3%
Bike	0.3%	0.7%	0.6%
Source: DKS Associates, 20	014.		

# Table 3.4: Estimated Daily Vehicle Trip Generation (Existing Plus Project Scenario)NewBridge Specific Plan

]	Ггір Туре	AM Peak Hour	PM Peak Hour	Daily					
Total V	ehicle Trip Ends	2,631	3,484	29,825					
Percent I	nternal Trip Ends <sup>1</sup>	14.7%	19.7%	16.4%					
	Internal to Project	194	343	2,448					
Vehicle Trips	External to Project	2,243	2,799	24,930					
	Total	2,437	3,142	27,378					
<sup>1.</sup> Both trip ends within the project.									
Source: DKS A	ssociates, 2014.								



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# FIGURE 3.4 EXISTING PLUS NEWBRIDGE TRIP DISTRIBUTION

# Legend

0.1% to 2.5%
 2.6% to 5.0%
 5.1% to 10.0%
 10.0% and up
 Freeways
 Other Major Roadways
 Cities

Mather Airport





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# FIGURE 3.5 EXISTING PLUS NEWBRIDGE ROADWAY SEGMENT AND INTERSECTION LOS AND IMPACTS

# Legend

## Intersections (AM Peak Hour)

- LOS A-D
- los e
- LOS F

## Intersections (PM Peak Hour)

- LOS A-D
- los e
- LOS F
- Mitigable Intersection Impact
  - Unavoidable Intersection Impact

## **Roadway Segments**

- LOS A-D
- LOS E
- LOS F

## Impacts

- Unavoidable Segment Impact
- IIIII Mitigable Segment Impact



Mather Airport



### 3.4.1 Existing Plus NewBridge Project Roadway Segment Impacts

Table 3.5 summarizes the results of the operations analysis for the study area roadway segments. The table includes the number of lanes assumed with the implementation of the NewBridge project, which in many cases is greater than the number of lanes in the existing condition. The shaded table cells under the "Travel Lanes" and "Facility Type" headings illustrate new roadways and widened roadways that are assumed part of the NewBridge project. The shaded table cells under the "Level of Service" heading indicate those locations with an LOS impact.

As stated above, the traffic analysis assumed that the NewBridge project would construct a number of travel lanes on roadway segments that are internal to or on the boundary of the NewBridge project, which would be greater than the number of lanes in the existing condition. The timing of implementation of such additional traffic lanes on these internal or boundary roadway segments will affect whether or not impacts would exist at some time prior to full build out of the NewBridge project.

## 3.4.2 Existing Plus NewBridge Project Intersection Impacts

Tables 3.6 and 3.7 summarize the results of the operations analysis for the study area intersections. The tables include the implementation of intersection changes associated with the NewBridge project. Table 3.7 illustrates the type of traffic control and number of lanes by type on each study area intersection approach. Shaded table cells indicate those locations where changes in traffic control and / or number of approach lanes by type were assumed to be implemented by the NewBridge project. Shaded table cells in Table 3.6 illustrate those locations with an LOS impact. Detailed analysis information is included in the technical appendix.

As stated above, the traffic analysis assumed that the NewBridge project would construct a number of changes to many of the intersections that are internal to or on the boundary of the NewBridge project, which would be an improvement over the existing condition. The timing of implementation of such intersection improvements on these internal or boundary roadway segments will affect whether or not impacts would exist at some time prior to full build out of the NewBridge project.

Signal warrant analysis was conducted for all unsignalized intersections along Jackson Road, and other unsignalized intersections in close proximity to the project. The project is considered to have a significant impact at an unsignalized location if both the impact criteria in Table 1.6 are met, and one or more of the signal warrants specified in the California Manual on Uniform Traffic Control Devices (CAMUTCD) are met. Detailed signal warrant calculation sheets are included in the technical appendix. The following unsignalized intersections exhibit significant impacts and meet one or more traffic signal warrants:

- Mayhew Road and Jackson Road
- Happy Lane and Old Placerville Road

		Seg	ment	Existing						Existin	g + NewBridge	e Project	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service
1	Bradshaw Rd	Folsom Blvd	US 50	6	Arterial M	20,592	0.38	А	6	Arterial M	20,630	0.38	А
2	Bradshaw Rd	US 50	Lincoln Village Dr	6	Arterial M	52,590	0.97	Е	6	Arterial M	53,140	0.98	Е
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd	6	Arterial M	42,787	0.79	С	6	Arterial M	43,520	0.81	D
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd	6	Arterial M	38,984	0.72	С	6	Arterial M	39,340	0.73	С
5	Bradshaw Rd	Goethe Rd	Kiefer Blvd	4	Arterial M	28,651	0.80	С	4	Arterial M	28,990	0.81	D
6	Bradshaw Rd	Kiefer Blvd	Jackson Rd	4	Arterial M	30,726	0.85	D	4	Arterial M	32,250	0.90	D
7	Bradshaw Rd	Jackson Rd	Elder Creek Rd	4	Arterial M	22,871	0.64	В	4	Arterial M	22,550	0.63	В
8	Bradshaw Rd	Elder Creek Rd	Florin Rd	4	Arterial M	22,265	0.62	В	4	Arterial M	22,030	0.61	В
9	Bradshaw Rd	Florin Rd	Gerber Rd	4	Arterial M	22,883	0.64	В	4	Arterial M	22,940	0.64	В
10	Bradshaw Rd	Gerber Rd	Calvine Rd	4	Arterial M	16,984	0.47	А	4	Arterial M	17,040	0.47	А
11	Calvine Rd	Waterman Rd	Bradshaw Rd	4	Arterial M	16,015	0.44	А	4	Arterial M	16,410	0.46	А
12	Calvine Rd	Bradshaw Rd	Vineyard Rd	4	Arterial M	12,395	0.34	А	4	Arterial M	12,900	0.36	А
13	Calvine Rd	Vineyard Rd	Excelsior Rd	2	Arterial M	6,036	0.34	А	2	Arterial M	6,560	0.36	А
14	Chrysanthy Blvd	Sunrise Blvd	Rancho Cordova Pkwy	4	Arterial M	3,411	0.09	А	4	Arterial M	3,930	0.11	А
15	Douglas Rd	Mather Blvd	Zinfandel Dr	2	Arterial M	6,635	0.37	А	2	Arterial M	7,250	0.40	А
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	2	Arterial M	8,369	0.46	А	2	Arterial M	9,750	0.54	А
17	Douglas Rd	Sunrise Blvd	Rancho Cordova Pkwy	5	Arterial M	3,674	0.10	А	5	Arterial M	4,680	0.13	А
18	Douglas Rd	Rancho Cordova Pkwy	Grant Line Rd	2	Arterial M	3,674	0.20	А	2	Arterial M	3,910	0.22	А
19.1	Eagles Nest Rd	Kiefer Blvd	N Bridgewater Dr	2	Arterial M	740	0.04	А	4	Arterial M	2,510	0.07	А
19.2	Eagles Nest Rd	N Bridgewater Dr	S Bridgewater Dr	2	Arterial M	740	0.04	А	4	Arterial M	4,020	0.11	А
19.3	Eagles Nest Rd	S Bridgewater Dr	Jackson Rd	2	Arterial M	740	0.04	А	4	Arterial M	9,790	0.27	А
20	Eagles Nest Rd	Jackson Rd	Florin Rd	2	Arterial M	517	0.03	А	2	Arterial M	3460	0.19	А
21	Eagles Nest Rd	Florin Rd	Grant Line Rd	2	Arterial M	189	0.01	А	2	Arterial M	1330	0.07	А
22	Elder Creek Rd	65th St	Power Inn Rd	4	Arterial M	17,891	0.50	А	4	Arterial M	18,200	0.51	А
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd	2	Arterial M	15,734	0.87	D	2	Arterial M	16,320	0.91	E
24	Elder Creek Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	11,092	0.62	В	2	Arterial M	11,830	0.66	В
25	Elder Creek Rd	South Watt Ave	Hedge Ave	2	Arterial M	5,576	0.31	А	2	Arterial M	6,300	0.35	А
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	2	Arterial M	5,797	0.32	А	2	Arterial M	6,540	0.36	А
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	2	Arterial M	5,355	0.30	А	2	Arterial M	6,400	0.36	А
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd	2	Arterial M	2,158	0.12	А	2	Arterial M	3,440	0.19	А
29	Elk Grove-Florin Rd	Florin Rd	Gerber Rd	2	Arterial M	22,960	1.28	F	2	Arterial M	22,910	1.27	F
30	Excelsior Rd	Kiefer Blvd	Jackson Rd	2	Arterial M	3,716	0.21	А	2	Arterial M	3,660	0.20	А
31	Excelsior Rd	Jackson Rd	Elder Creek Rd	2	Arterial M	5,075	0.28	А	2	Arterial M	5,470	0.30	А



		Seg	ment			Existing			Existing + NewBridge Project					
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	
32	Excelsior Rd	Elder Creek Rd	Florin Rd	2	Arterial M	4,203	0.23	А	2	Arterial M	3,990	0.22	А	
33	Excelsior Rd	Florin Rd	Gerber Rd	2	Arterial M	5,423	0.30	А	2	Arterial M	5,390	0.30	А	
34	Excelsior Rd	Gerber Rd	Calvine Rd	2	Arterial M	4,229	0.23	А	2	Arterial M	3,970	0.22	А	
35	Excelsior Rd	Calvine Rd	Sheldon Rd	2	Arterial M	4,473	0.25	А	2	Arterial M	4,400	0.24	А	
36	Florin Rd	Stockton Blvd	Power Inn Rd	4	Arterial M	27,495	0.76	С	4	Arterial M	28,310	0.79	С	
37	Florin Rd	Power Inn Rd	Florin-Perkins Rd	4	Arterial M	21,595	0.60	А	4	Arterial M	22,690	0.63	В	
38	Florin Rd	Florin-Perkins Rd	So Watt Ave/ Elk Grove Florin Rd	4	Arterial M	14,163	0.39	А	4	Arterial M	15,540	0.43	А	
39	Florin Rd	South Watt Ave	Hedge Ave	2	Arterial M	7,718	0.43	А	2	Arterial M	8,940	0.50	А	
40	Florin Rd	Hedge Ave	Mayhew Rd	2	Arterial M	6,312	0.35	А	2	Arterial M	7,680	0.43	А	
41	Florin Rd	Mayhew Rd	Bradshaw Rd	2	Arterial M	6,317	0.35	А	2	Arterial M	7,750	0.43	А	
42	Florin Rd	Bradshaw Rd	Excelsior Rd	2	Arterial M	3,478	0.19	А	2	Arterial M	5,110	0.28	А	
43	Florin Rd	Excelsior Rd	Sunrise Blvd	2	Arterial M	3,835	0.21	А	2	Arterial M	5,910	0.33	А	
44	Folsom Blvd	Howe Ave	Jackson Rd	4	Arterial M	37,516	1.04	F	4	Arterial M	38,790	1.08	F	
45	Fruitridge Rd	65th St	Power Inn Rd	4	Arterial M	16,634	0.46	А	4	Arterial M	16,880	0.47	А	
46	Fruitridge Rd	Power Inn Rd	Florin Perkins Rd	4	Arterial M	15,214	0.42	А	4	Arterial M	15,780	0.44	А	
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	10,280	0.57	А	2	Arterial M	10,660	0.59	А	
48	Fruitridge Rd	South Watt Ave	Hedge Ave	2	Arterial M	2,890	0.16	А	2	Arterial M	3,140	0.17	А	
49	Fruitridge Rd	Hedge Ave	Mayhew Rd	2	Arterial M	1,790	0.10	А	2	Arterial M	2,030	0.11	А	
50	Grant Line Rd	White Rock Rd	Douglas Rd	2	Rural NS	7,189	0.42	D	2	Rural NS	7,920	0.47	D	
51	Grant Line Rd	Douglas Rd	Kiefer Blvd	2	Rural S	6,143	0.31	С	2	Rural S	6,940	0.35	С	
52	Grant Line Rd	Kiefer Blvd	Jackson Rd	2	Rural S	5,758	0.29	С	2	Rural S	6,460	0.32	С	
53	Grant Line Rd	Jackson Rd	Sunrise Blvd	2	Rural S	14,720	0.74	Е	2	Rural S	14,440	0.72	Е	
54	Grant Line Rd	Sunrise Blvd	Calvine Rd	2	Rural S	14,812	0.74	Е	2	Rural S	16,430	0.82	Е	
55	Grant Line Rd	Calvine Rd	Sheldon Rd	2	Rural S	13,140	0.66	Ε	2	Rural S	14,240	0.71	E	
56	Grant Line Rd	Sheldon Rd	Wilton Rd	2	Rural S	17,459	0.87	Ε	2	Rural S	18,280	0.91	Ε	
57	Grant Line Rd	Wilton Rd	Bond Rd	2	Rural S	16,064	0.80	Ε	2	Rural S	16,880	0.84	Ε	
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	2	Rural S	4,635	0.23	С	2	Rural S	6,660	0.33	С	
59	Hedge Ave	Jackson Rd	Fruitridge Rd	2	Arterial M	3,061	0.17	А	2	Arterial M	2,970	0.17	А	
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	2	Arterial M	3,737	0.21	А	2	Arterial M	3,680	0.20	А	
61	Hedge Ave	Elder Creek Rd	Florin Rd	2	Arterial M	2,722	0.15	А	2	Arterial M	2,790	0.16	А	
62	Howe Ave	US 50	Folsom Blvd	6	Arterial M	53,849	1.00	Е	6	Arterial M	54,510	1.01	F	



		Segment				Existing			Existing + NewBridge Project				
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service
63	International Dr	Mather Field Rd	Zinfandel Dr	6	Arterial M	17,500	0.32	А	6	Arterial M	17,850	0.33	А
64	International Dr	Zinfandel Dr	Sunrise Blvd	6	Arterial M	8,802	0.16	А	6	Arterial M	9,610	0.18	А
65	Jackson Rd	Folsom Blvd	Florin Perkins Rd	2	Arterial M	12,358	0.69	В	2	Arterial M	12,960	0.72	С
66	Jackson Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	10,414	0.58	А	2	Arterial M	11,770	0.65	В
67	Jackson Rd	South Watt Ave	Hedge Ave	2	Arterial M	17,060	0.95	Е	2	Arterial M	19,820	1.10	F
68	Jackson Rd	Hedge Ave	Mayhew Rd	2	Arterial M	12,616	0.70	С	2	Arterial M	15,530	0.86	D
69	Jackson Rd	Mayhew Rd	Bradshaw Rd	2	Arterial M	14,996	0.83	D	2	Arterial M	18,170	1.01	F
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	2	Arterial M	13,030	0.72	С	2	Arterial M	18,090	1.01	F
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	2	Rural Hwy	10,478	0.46	D	2	Rural Hwy	17,610	0.77	Е
72.1	Jackson Rd	Eagles Nest Rd	Rockbridge Dr	2	Rural Hwy	9,976	0.44	D	4	Arterial M	13,160	0.37	А
72.2	Jackson Rd	Rockbridge Dr	Sunrise Blvd	2	Rural Hwy	9,976	0.44	D	4	Arterial M	13,540	0.38	А
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	2	Rural Hwy	13,306	0.58	D	2	Rural Hwy	14,120	0.62	E
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	2	Arterial M	4,616	0.26	А	2	Arterial M	4,810	0.27	А
75	Kiefer Blvd	South Watt Ave	Mayhew Rd	4	Arterial M	18,668	0.52	А	4	Arterial M	19,330	0.54	А
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd	4	Arterial M	9,274	0.26	А	4	Arterial M	10,430	0.29	А
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	2	Arterial M	4,618	0.26	А	2	Arterial M	5,500	0.31	А
78.1	Kiefer Blvd	Eagles Nest Rd	W Collector MS-1	2	Arterial M	656	0.04	А	3	Arterial M	2430	0.14	А
78.2	Kiefer Blvd	W Collector MS-1	Northbridge Dr	2	Arterial M	656	0.04	А	3	Arterial M	3440	0.19	А
78.3	Kiefer Blvd	Northbridge Dr	E Collector MS-1	2	Arterial M	656	0.04	А	3	Arterial M	6400	0.36	А
78.4	Kiefer Blvd	E Collector MS-1	Sunrise Blvd	2	Arterial M	656	0.04	А	3	Arterial M	7510	0.42	А
79	Kiefer Blvd	Sunrise Blvd	Rancho Cordova Pkwy	2	Arterial M	2,786	0.15	А	2	Arterial M	2,730	0.15	А
80	Mather Blvd / Norden Ave	Von Karman St	Bleckely St	4	Arterial M	4,373	0.12	А	4	Arterial M	5,120	0.14	А
81	Mather Blvd	Bleckely St	Femoyer St	4	Arterial M	4,373	0.12	А	4	Arterial M	5,120	0.14	А
82	Mather Blvd	Femoyer St	Douglas Rd	2	Arterial M	4,373	0.24	A	2	Arterial M	5,110	0.28	А
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd	2	Res Collector F	6,751	0.84	Е	2	Res Collector F	6,660	0.83	Е
84	Mather Field Rd	US 50	Rockingham Dr	6	Arterial M	37,755	0.70	В	6	Arterial M	38,300	0.71	C



		Segment				Existing			Existing + NewBridge Project				
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service
85	Mather Field Rd	Rockingham Dr	International Dr	6	Arterial M	37,520	0.69	В	6	Arterial M	37,680	0.70	В
86	Mather Field Rd	International Dr	Peter A McCuen Blvd	4	Arterial M	14,857	0.41	А	4	Arterial M	14,840	0.41	А
87	Mayhew Rd	Folsom Blvd	Goethe Rd	2	Arterial M	6,977	0.39	А	2	Arterial M	7,460	0.41	А
88	Mayhew Rd	Goethe Rd	Kiefer Blvd	2	Arterial L	6,593	0.44	А	2	Arterial L	7,230	0.48	А
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	2	Arterial L	1,616	0.11	А	2	Arterial L	1,860	0.12	А
90	Old Placerville Rd	Bradshaw Rd	Granby Dr	4	Arterial M	15,800	0.44	А	4	Arterial M	16,630	0.46	А
91	Old Placerville Rd	Granby Dr	Happy Ln	2	Arterial M	13,573	0.75	С	2	Arterial M	14,350	0.80	С
92	Old Placerville Rd	Happy Ln	Routier Rd	2	Arterial M	10,710	0.60	А	2	Arterial M	12,040	0.67	В
93	Old Placerville Rd	Routier Rd	Rockingham Dr	4	Arterial M	10,710	0.30	А	4	Arterial M	11,490	0.32	А
94	Power Inn Rd	Folsom Blvd	14th Ave	6	Arterial M	36,175	0.67	В	6	Arterial M	36,320	0.67	В
95	Rockingham Dr	Old Placerville Rd	Mather Field Rd	4	Arterial M	19,881	0.55	А	4	Arterial M	20,700	0.58	А
96	South Watt Ave	Folsom Blvd	Kiefer Blvd	6	Arterial M	40,920	0.76	С	6	Arterial M	42,450	0.79	С
97	South Watt Ave	Kiefer Blvd	Jackson Rd	5	Arterial M	32,415	0.90	Е	5	Arterial M	33,780	0.94	Е
98	South Watt Ave	Jackson Rd	Fruitridge Rd	2	Arterial M	25,832	1.44	F	2	Arterial M	25,820	1.43	F
99	South Watt Ave	Fruitridge Rd	Elder Creek Rd	2	Arterial M	21,567	1.20	F	2	Arterial M	21,630	1.20	F
100	South Watt Ave	Elder Creek Rd	Florin Rd	2	Arterial M	19,069	1.06	F	2	Arterial M	19,040	1.06	F
101	Sunrise Blvd	US 50	Folsom Blvd	7	Arterial M	54,500	1.01	F	7	Arterial M	56,230	1.04	F
102	Sunrise Blvd	Folsom Blvd	Trade Center Dr	6	Arterial M	49,500	0.92	Е	6	Arterial M	51,850	0.96	Е
103	Sunrise Blvd	Trade Center Dr	White Rock Rd	6	Arterial M	34,571	0.64	В	6	Arterial M	37,680	0.70	В
104.1	Sunrise Blvd	White Rock Rd	International Dr	6	Arterial M	25,811	0.48	А	6	Arterial M	28,610	0.53	А
104.2	Sunrise Blvd	International Dr	Future Rio Del Oro Pkwy	6	Arterial M	28,400	0.53	А	6	Arterial M	33,940	0.63	В
104.3	Sunrise Blvd	Future Rio Del Oro Pkwy	Douglas Rd	6	Arterial M	25,811	0.48	А	6	Arterial M	31,970	0.59	А
105	Sunrise Blvd	Douglas Rd	Kiefer Blvd	5	Arterial M	21,878	0.61	В	5	Arterial M	28,740	0.80	С
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd	2	Arterial M	16,894	0.94	Е	2	Arterial M	18,370	1.02	F
107	Sunrise Blvd	Jackson Rd	Florin Rd	2	Rural S	11,181	0.56	D	2	Rural S	12,420	0.62	E
108	Sunrise Blvd	Florin Rd	Grant Line Rd	2	Rural S	7,752	0.39	D	2	Rural S	8,730	0.44	D
109	Vineyard Rd	Gerber Rd	Calvine Rd	2	Arterial M	5,515	0.31	А	2	Arterial M	5,730	0.32	А
110	Watt Ave	US 50	Folsom Blvd	6	Arterial H	65,242	1.09	F	6	Arterial H	66,200	1.10	F
111	White Rock Rd	International Rd	Quality Dr	2	Arterial M	3,962	0.22	А	2	Arterial M	3,970	0.22	А
112	White Rock Rd	Quality Dr	Zinfandel Dr	4	Arterial M	11,200	0.31	А	4	Arterial M	11,040	0.31	А
113	White Rock Rd	Zinfandel Dr	Kilgore Rd	6	Arterial M	14,756	0.27	А	6	Arterial M	15,100	0.28	А
114	White Rock Rd	Kilgore Rd	Sunrise Blvd	5	Arterial M	14,756	0.41	А	5	Arterial M	15,380	0.43	А



		Seg	ment			Existing			Existing + NewBridge Project					
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	
115	White Rock Rd	Sunrise Blvd	Fitzgerald Rd	4	Arterial M	15,433	0.43	А	4	Arterial M	15,650	0.43	А	
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	2	Rural NS	2,490	0.15	В	2	Rural NS	2,520	0.15	В	
117	White Rock Rd	Grant Line Rd	Prairie City Rd	4	Arterial M	9,400	0.26	А	4	Arterial M	10,100	0.28	А	
118	Zinfandel Dr	US 50	White Rock Rd	7	Arterial M	45,228	0.84	D	7	Arterial M	45,450	0.84	D	
119	Zinfandel Dr	White Rock Rd	International Rd	6	Arterial M	17,923	0.33	А	6	Arterial M	18,710	0.35	А	
120	Zinfandel Dr	International Rd	Baroque Dr	6	Arterial M	7,595	0.14	А	6	Arterial M	8,500	0.16	А	
121	Zinfandel Dr	Baroque Dr	City Limit	4	Arterial M	7,595	0.21	А	4	Arterial M	8,500	0.24	А	
122	Zinfandel Dr	City Limit	Douglas Rd	2	Arterial M	7,595	0.42	А	2	Arterial M	8,500	0.47	А	
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	2	Arterial M	2,848	0.16	А	2	Arterial M	2,860	0.16	А	
500	S Bridgewater Dr	Collector JT-4	Eagles Nest Rd						2	Res Collector F	4,670	0.58	С	
501	S Bridgewater Dr	Eagles Nest Rd	Northbridge Dr						2	Res Collector F	3,780	0.47	С	
502	N Bridgewater Dr	Northbridge Dr	Eagles Nest Rd						2	Res Collector F	1,520	0.19	А	
503	Northbridge Dr	Kiefer Blvd	Bridgewater Dr						2	Arterial M	2,970	0.17	А	
504	Street A	S Bridgewater Dr	Street B						2	Res Collector F	1,560	0.20	А	
505	Street B	S Bridgewater Dr	Street A						2	Res Collector F	1,500	0.19	А	
506	Rockbridge Dr	Street B	Stonebridge Dr						2	Res Collector F	1,790	0.22	В	
507	Rockbridge Dr	Stonebridge Dr	Jackson Rd						2	Arterial M	5,500	0.31	А	
508	Stonebridge Dr	S Bridgewater Dr	Rockbridge Dr						2	Arterial M	2,490	0.14	А	
509	Stonebridge Dr	Rockbridge Dr	Jackson Rd						2	Res Collector F	2,880	0.36	В	



ſ			Seg	nent			Existing			Existing + NewBridge Project					
	ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage



Existing Plus NewBridge Project Intersection Levels of Service														
				AM Peak Hour							PM Peak Hour			
Intersection		Existing		Existing Plus	s NewBrid	ge Project			Existing		Existing Plus	s NewBridg	ge Project	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
1 Howe Avenue & College Town Drive/US 50 WB Ramps	Signal	D	36.6	Signal	D	36.6	No	Signal	D	44.4	Signal	D	44.6	No
2 Howe Avenue & US 50 EB Ramps	Signal	В	16.9	Signal	В	17.2	No	Signal	С	20.5	Signal	С	20.7	No
3 Power Inn Road/Howe Avenue & Folsom Blvd	Signal	D	39.1	Signal	D	40.1	No	Signal	D	55.0	Signal	Е	55.7	No
4 Power Inn Road & 14th Avenue	Signal	С	31.5	Signal	С	31.7	No	Signal	D	39.6	Signal	D	39.4	No
5 Power Inn Road & Fruitridge Road	Signal	D	43.4	Signal	D	42.5	No	Signal	С	33.5	Signal	С	34.1	No
6 Jackson Road/Notre Dame Dr. & Folsom Blvd.	Signal	D	36.8	Signal	D	41.0	No	Signal	С	32.1	Signal	С	32.4	No
7 Florin Perkins Road/Julliard Dr. & Folsom Boulevard	Signal	D	39.0	Signal	Е	56.5	No	Signal	E	55.6	Signal	Е	55.2	No
8 Florin Perkins Road & Kiefer Blvd.	Two-way stop	А	2.8	Two-way stop	A	2.5	No	Two-way stop	A	3.2	Two-way stop	А	3.4	No
Westbound Left Turn		С	20.1		С	21.6			С	23.3		С	23.9	
Westbound Right Turn		В	13.3		В	13.6			В	12.6		В	12.8	
Southbound Left Turn		A	10.0		В	10.3			В	10.9		В	11.0	
9 Florin Perkins Road & Jackson Road	Signal	D	51.5	Signal	D	51.6	No	Signal	D	54.1	Signal	С	31.5	No
10 Florin Perkins Road & Fruitridge Road	Signal	С	25.1	Signal	С	27.7	No	Signal	С	25.4	Signal	С	25.4	No
11 Florin Perkins Road & Elder Creek Road	Signal	С	25.7	Signal	С	25.9	No	Signal	С	26.2	Signal	С	26.5	No
12 Watt Avenue & Folsom Blvd.	Signal	E	66.2	Signal	E	69.6	No	Signal	E	71.9	Signal	E	72.3	No
13 S. Watt Ave. & Reith Ct/Manlove Road	Signal	В	19.6	Signal	В	19.8	No	Signal	D	54.1	Signal	Е	57.0	No
14 S. Watt Avenue & Kiefer Blvd.	Signal	Е	56.0	Signal	Е	62.2	No	Signal	E	75.9	Signal	D	52.0	No

sting Plus NewBridge Project Intersection Levels of Service														
Existing Plus NewBridge Project Intersection Levels of Service				AM Peak Hour							PM Peak Hour			
Intersection		Existing		Existing Plus	s NewBrid	ge Project			Existing		Existing Plus	s NewBrid	je Project	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
15 S. Watt Avenue & Canberra Dr.	Signal	В	11.5	Signal	В	11.7	No	Signal	А	9.7	Signal	А	9.9	No
16 S. Watt Avenue & Jackson Road	Signal	E	62.5	Signal	E	62.3	No	Signal	E	66.4	Signal	Е	66.0	No
17 S. Watt Avenue & Fruitridge Road	Signal	D	38.1	Signal	D	39.5	No	Signal	D	41.7	Signal	С	32.0	No
18 S. Watt Avenue & Elder Creek Road	Signal	E	62.7	Signal	Е	62.5	No	Signal	E	68.8	Signal	Е	68.8	No
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	D	54.7	Signal	E	59.9	No	Signal	D	51.8	Signal	D	42.7	No
21 Elk Grove Florin Road & Gerber Road	Signal	D	49.1	Signal	D	49.1	No	Signal	E	64.6	Signal	Е	75.4	No
23 Hedge Avenue & Jackson Road	Signal	D	35.1	Signal	D	41.5	No	Signal	D	37.3	Signal	D	41.9	No
24 Hedge Avenue & Fruitridge Road	All-way stop	В	13.6	All-way stop	С	15.8	No	All-way stop	А	9.4	All-way stop	А	9.6	No
25 Hedge Avenue & Elder Creek Road	All-way stop	С	15.9	All-way stop	С	22.3	No	All-way stop	В	11.6	All-way stop	В	12.9	No
26 Hedge Avenue & Tokay Lane	Two-way stop	А	0.4	Two-way stop	А	0.4	No	Two-way stop	А	0.2	Two-way stop	А	0.2	No
Northbound Left Turn		А	0.0		А	0.0			А	0.0		А	0.0	
Southbound Left Turn		А	8.0		А	8.1			А	7.3		А	7.3	
Eastbound		В	12.2		В	12.4			В	10.2		В	10.4	
Westbound		В	11.1		В	11.3			A	9.6		А	9.7	
27 Hedge Avenue & Florin Road	All-way stop	В	12.9	All-way stop	В	14.2	No	All-way stop	В	11.1	All-way stop	В	12.5	No
28 Mayhew Road & Kiefer Boulevard	Signal	D	48.6	Signal	D	50.8	No	Signal	D	51.1	Signal	D	51.1	No

Existing Plus NewBridge Project Intersection Levels of Service				AM Dook Hour							DM Dook Hour			
		Existing		Existing Plus	NewBridg	ge Project		E	Existing		Existing Plus	NewBrid	ge Project	
Intersection	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
29 Mayhew Road & Jackson Road	Two-way stop	А	1.8	Two-way stop	А	1.7	No	Two-way stop	А	1.9	Two-way stop	А	2.1	Yes
Northbound Through - Left Turn		D	27.6		Е	36.6			D	34.0		F	50.0	
Northbound Right Turn		В	11.8		В	13.0			С	15.0		С	15.9	
Southbound		С	18.3		С	22.2			С	24.9		D	33.6	
Eastbound Left Turn		А	8.9		А	9.0			А	8.4		А	8.7	
Westbound Left Turn		А	8.3		А	8.7			А	9.3		Α	9.6	
30 Mayhew Road & Fruitridge Road	Two-way stop	А	6.2	Two-way stop	А	5.6	No	Two-way stop	А	5.1	Two-way stop	А	4.5	No
Northbound Left Turn		Α	0.0		А	0.0			А	7.4		Α	7.4	
Eastbound		A	9.2		А	9.2			А	9.2		А	9.3	
31 Mayhew Road & Elder Creek Road	Two-way stop	А	0.2	Two-way stop	А	0.2	No	Two-way stop	А	0.3	Two-way stop	А	0.2	No
Northbound		В	11.9		В	12.8			В	10.9		В	11.6	
Southbound		В	11.1		В	12.0			А	9.8		В	10.2	
Eastbound Left Turn		А	8.3		А	8.6			А	7.6		А	7.7	
Westbound Left Turn		A	7.5		А	7.5			А	0.0		А	0.0	
32 Woodring Drive & Zinfandel Drive	Two-way stop	А	5.9	Two-way stop	А	5.9	No	Two-way stop	А	3.0	Two-way stop	А	3.0	No
Eastbound		A	9.3		А	9.3			А	9.3		А	9.3	
Northbound Left Turn		А	0.0		А	0.0			А	0.0		А	0.0	
33 Bradshaw Road & Folsom Blvd.	Signal	E	56.7	Signal	D	55.0	No	Signal	D	49.9	Signal	D	55.0	No
34 Bradshaw Road & US 50 WB Ramps	Signal	В	15.9	Signal	В	14.9	No	Signal	В	15.2	Signal	В	15.3	No
35 Bradshaw Road & US 50 EB Ramps	Signal	С	24.4	Signal	С	29.5	No	Signal	В	16.0	Signal	В	15.9	No
36 Bradshaw Road & Old Placerville Road	Signal	D	45.9	Signal	D	47.6	No	Signal	D	52.0	Signal	D	53.7	No
37 Bradshaw Road & Kiefer Boulevard	Signal	D	45.7	Signal	D	46.6	No	Signal	Е	66.2	Signal	Е	71.6	No

Existing Plus NewBridge Project Intersection Levels of Service														
Existing 1 has new bridge 1 roject intersection Levels of Dervice				AM Peak Hour							PM Peak Hour			
Intersection		Existing		Existing Plus	s NewBrid	ge Project			Existing		Existing Plus	NewBridg	je Project	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
38 Bradshaw Road & Jackson Road	Signal	Е	73.1	Signal	F	86.2	Yes	Signal	E	59.4	Signal	Е	65.4	No
39 Bradshaw Road & Elder Creek Road	Signal	D	36.8	Signal	D	37.9	No	Signal	D	36.1	Signal	D	36.6	No
40 Bradshaw Road & Florin Road	Signal	D	38.1	Signal	Е	56.4	No	Signal	D	53.6	Signal	D	52.1	No
41 Bradshaw Road & Gerber Road	Signal	Е	72.2	Signal	Е	74.3	No	Signal	D	49.9	Signal	Е	65.3	No
42 Happy Lane & Old Placerville Road	Two-way stop	А	7.3	Two-way stop	В	11.8	Yes	Two-way stop	А	4.7	Two-way stop	В	12.5	Yes
Northbound Left Turn		F	64.8		F	201.8			F	95.9		F	288.0	
Northbound Right Turn		D	30.6		E	36.1			С	15.4		С	17.5	
Westbound Left Turn		В	10.2		В	11.0			В	10.1		В	10.2	
45 Excelsior Road & Jackson Road	Signal	D	36.7	Signal	D	39.9	No	Signal	D	40.3	Signal	С	26.3	No
46 Excelsior Road & Elder Creek Road	Two-way stop	А	3.5	Two-way stop	А	4.4	No	Two-way stop	А	2.7	Two-way stop	А	5.0	No
Northbound Left Turn		А	7.5		Α	7.5			Α	8.0		Α	7.9	
Eastbound		С	18.6		С	18.7			В	12.3		В	13.8	
47 Excelsior Road & Florin Road	All-way stop	С	24.9	All-way stop	E	35.5	No	All-way stop	В	12.5	All-way stop	В	14.2	No
48 Excelsior Road & Gerber Road/Birch Ranch Drive	All-way stop	В	14.0	All-way stop	В	13.1	No	All-way stop	В	10.6	All-way stop	В	10.4	No
49 Mather Field Road & US 50 WB Ramps	Signal	С	24.7	Signal	С	27.9	No	Signal	А	9.4	Signal	А	9.8	No
50 Mather Field Road & US 50 EB Ramps	Signal	С	27.7	Signal	С	29.1	No	Signal	В	13.4	Signal	В	13.2	No
51 Mather Field Road & Rockingham Drive	Signal	Е	56.4	Signal	Е	60.9	No	Signal	D	54.7	Signal	D	45.0	No
52 Mather Boulevard & Douglas Road	All-way stop	E	39.3	All-way stop	Е	40.0	No	All-way stop	С	15.5	All-way stop	С	17.9	No

Existing Plus NewBridge Project Intersection Levels of Service				AM Dook Hour							DM Dook Hour			
		Existing		Existing Plus	s NewBrid	ge Project			Existing		Existing Plus	NewBridg	ge Project	
Intersection	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
53 Zinfandel Drive & US 50 WB Ramps	Signal	В	16.4	Signal	В	16.9	No	Signal	D	51.7	Signal	D	36.9	No
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	D	40.0	Signal	D	41.0	No	Signal	E	60.1	Signal	Е	63.5	No
55 Zinfandel Drive & White Rock Road	Signal	D	47.7	Signal	D	48.9	No	Signal	D	54.7	Signal	D	55.0	No
56 Zinfandel Drive & Data Drive	Signal	D	49.3	Signal	D	49.8	No	Signal	D	52.9	Signal	D	52.9	No
57 Zinfandel Drive & International Dr	Signal	С	34.0	Signal	D	48.8	No	Signal	D	48.5	Signal	D	47.4	No
58 Zinfandel Drive & Douglas Road	Signal	Е	55.5	Signal	Е	62.7	No	Signal	D	54.2	Signal	С	25.9	No
60 Eagles Nest Road & Jackson Road	Two-way stop	А	2.3	Signal	С	28.0	No	Two-way stop	А	3.6	Signal	С	25.7	No
Northbound		С	22.0						С	23.8				
Southbound		В	13.9						С	22.0				
Eastbound Left Turn		А	8.8						A	7.9				
Westbound Left Turn		Α	7.9						A	8.7				
61 Eagles Nest Road & Florin Road	Two-way stop	А	2.3	Two-way stop	А	7.2	No	Two-way stop	А	2.6	Two-way stop	А	7.0	No
Northbound		В	12.7		С	19.1			В	12.1		С	16.4	
Southbound		В	10.0		В	13.7			В	10.5		В	14.9	
Eastbound Left Turn		Α	7.7		А	8.0			A	7.7		Α	7.9	
Westbound Left Turn		Α	0.0		Α	7.6			Α	7.6		Α	7.6	
62 Sunrise Boulevard & US 50 WB Ramps	Signal	D	44.7	Signal	D	44.2	No	Signal	В	19.7	Signal	В	19.6	No
63 Sunrise Boulevard & US 50 EB Ramps	Signal	В	16.9	Signal	В	16.7	No	Signal	В	17.6	Signal	В	17.8	No
64 Sunrise Boulevard & Folsom Boulevard	Signal	D	54.4	Signal	D	53.9	No	Signal	D	48.6	Signal	D	48.5	No

Existing Plus NewBridge Project Intersection Levels of Service	ting Plus NewBridge Project Intersection Levels of Service													
				AM Peak Hour							PM Peak Hour			
Intersection		Existing		Existing Plu	s NewBridg	ge Project			Existing		Existing Plu	s NewBridg	je Project	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
65 Sunrise Boulevard & White Rock Road	Signal	D	47.8	Signal	D	48.4	No	Signal	D	51.6	Signal	D	51.8	No
66 Sunrise Boulevard & International Drive/Monier Circle	Signal	D	47.8	Signal	D	50.6	No	Signal	D	45.8	Signal	D	47.7	No
67 Sunrise Boulevard & Douglas Road	Signal	D	51.7	Signal	С	33.7	No	Signal	D	46.5	Signal	С	33.5	No
68 Sunrise Boulevard & Chrysanthy Boulevard	Signal	С	27.0	Signal	С	30.5	No	Signal	С	21.0	Signal	С	22.9	No
69 Sunrise Boulevard & Kiefer Boulevard	Signal	D	53.6	Signal	D	38.7	No	Signal	С	27.0	Signal	С	26.1	No
70 Sunrise Boulevard & Jackson Road	Signal	Е	57.0	Signal	E	60.4	No	Signal	D	47.2	Signal	D	44.0	No
71 Sunrise Boulevard & Florin Road	Signal	В	11.3	Signal	В	11.9	No	Signal	D	48.3	Signal	D	52.0	No
72 Sheldon Lake Drive/Sunrise Boulevard & Grant Line Road	Signal	D	43.2	Signal	D	42.5	No	Signal	D	40.7	Signal	D	40.2	No
73 Hazel Avenue & Tributary Point Drive/US 50 WB Off-ramp	Signal	С	31.2	Signal	С	31.0	No	Signal	D	41.4	Signal	D	37.4	No
74 Hazel Avenue & US 50 EB Ramps	Signal	С	20.6	Signal	С	21.0	No	Signal	С	29.9	Signal	С	30.2	No
75 Hazel Avenue & Folsom Boulevard	Signal	D	51.7	Signal	D	53.7	No	Signal	D	46.7	Signal	D	47.6	No
76 Prairie City Road & White Rock Road	Signal	В	19.2	Signal	В	19.2	No	Signal	В	15.0	Signal	В	15.0	No
77 Grant Line Road & White Rock Road	Signal	В	10.9	Signal	В	11.0	No	Signal	В	11.2	Signal	В	11.2	No
78 Grant Line Road & Douglas Road	All-way stop	С	15.2	All-way stop	С	17.8	No	All-way stop	В	12.3	All-way stop	В	13.0	No
79 Grant Line Road & Kiefer Boulevard	All-way stop	В	11.4	All-way stop	В	12.3	No	All-way stop	В	10.5	All-way stop	В	11.4	No

Existing Plus NewBridge Project Intersection Levels of Service				AM Peak Hour							PM Peak Hour			
Interportion		Existing		Existing Plu	s NewBrid	ge Project			Existing		Existing Plus	s NewBridg	ge Project	
Intersection	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
80 Grant Line Road & Jackson Road	Signal	E	74.0	Signal	E	77.9	No	Signal	E	78.9	Signal	E	76.0	No
81 Watt Avenue & US-50 EB Ramps	Signal	В	13.0	Signal	В	13.2	No	Signal	В	14.9	Signal	В	14.9	No
82 Watt Avenue & US-50 WB Ramps	Signal	С	32.9	Signal	D	38.0	No	Signal	с	28.6	Signal	С	29.2	No
83 Mayhew Rd & Folsom Blvd.	Signal	В	19.8	Signal	С	20.3	No	Signal	с	20.1	Signal	С	20.2	No
84 65th Street Expy & Fruitridge Road	Signal	С	31.2	Signal	С	33.6	No	Signal	D	35.3	Signal	С	33.6	No
85 Power Inn Road & Elder Creek Road	Signal	D	35.2	Signal	С	34.8	No	Signal	D	36.3	Signal	Е	67.3	No
86 Power Inn Road & Florin Rd	Signal	D	36.3	Signal	D	39.9	No	Signal	D	45.9	Signal	D	49.5	No
87 Florin Perkins Road & Florin Rd	Signal	D	36.7	Signal	D	49.2	No	Signal	с	32.5	Signal	D	42.9	No
88 Bradshaw Rd & Calvine Rd	Signal	С	30.5	Signal	С	31.7	No	Signal	D	36.9	Signal	D	37.6	No
89 Vineyard Rd & Calvine Rd	Signal	С	30.8	Signal	С	30.9	No	Signal	с	34.9	Signal	С	34.7	No
90 Excelsior Road & Calvine Rd	All-way stop	С	16.6	All-way stop	С	16.7	No	All-way stop	В	13.0	All-way stop	В	13.1	No
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	D	51.7	Signal	D	50.7	No	Signal	D	46.5	Signal	D	47.9	No
92 Grant Line Rd & Calvine Rd	Signal	С	21.4	Signal	С	25.2	No	Signal	с	24.0	Signal	С	29.6	No
93 Grant Line Rd & Dwy/Wilton Rd	Signal	E	65.9	Signal	E	70.0	No	Signal	E	64.8	Signal	Е	66.5	No
94 Grant Line Rd & Bond Rd/Wrangler Dr	Signal	С	33.3	Signal	С	32.7	No	Signal	D	46.4	Signal	D	48.4	No

Tab	e 3.6														
Exis	ting Plus NewBridge Project Intersection Levels of Service														
					AM Peak Hour							PM Peak Hour			
	Intersection		Existing		Existing Plu	s NewBridg	je Project			Existing		Existing Plu	s NewBrido	je Project	
		Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
203	Northbridge Dr & Kiefer Boulevard	NewB	NewBridge Project Int.		Signal	В	15.7	No	NewB	ridge Project	l Int.	Signal	В	18.5	No
500	Rockbridge Dr & Jackson Road	NewBi	ridge Projec	t Int.	Signal	В	17.8	No	NewB	ridge Project	t Int.	Signal	В	14.5	No
501	Eagles Nest Road & N Bridgewater Dr	NewB	NewBridge Project Int.		Signal	В	10.2	No	NewB	ridge Project	t Int.	Signal	A	8.8	No
502	Eagles Nest Road & S Bridgewater Dr	NewB	NewBridge Project Int.		Signal	D	46.0	No	NewB	ridge Project	t Int.	Signal	С	24.7	No
Note	e: Gray shading represents changes in traffic control that the pr	oject is respor	nsible to pro	ovide.											

Table 3.7										
Existing and Existing Plus NewBridge Project Intersection Geo	metrics									
	Traffic	Control		Existing Lan	e Geometrics		Existin	ig Plus NewBridge	Project Lane Geor	netrics
Intersection	Existing	Existing Plus Project	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach
1 Howe Avenue & College Town Drive/US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow \downarrow$	ላ እ	<u> </u>	111 r		ሻ ሾሾ	<u> </u>
2 Howe Avenue & US 50 EB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow$	<u> </u>		111 r	$\downarrow \downarrow \downarrow \downarrow$	<u> </u>	
3 Power Inn Road/Howe Avenue & Folsom Blvd	Signal	Signal	<u>ካካ†††</u> ፖ	$\mathbf{x} \uparrow \uparrow \uparrow \mathbf{x} \mathbf{x}$	<u>ካካ</u> ተ ሾ	<u>ካካ†† ፖፖ</u>	ካካ††ተ ፖ	~\	<u>ካካ</u> ተ ሾ	<u>ካካ†† ፖፖ</u>
4 Power Inn Road & 14th Avenue	Signal	Signal	<u>ካካ</u> ነተ ሾ	₽↓↓ <i>K</i>	ካኘ ፖ	Ŷ	ካካተተ ሾ	2 L L K	ካኘ ፖ	Ŷ
5 Power Inn Road & Fruitridge Road	Signal	Signal	<u> ካ</u> ካተ ሾ	21166	ጓተ ሾ	ካ†ተ ፖ	<u>ካ</u> ካተኛ	N † † K K	ጓተ ሾ	ካ†ተ ፖ
6 Jackson Road/Notre Dame Dr. & Folsom Blvd.	Signal	Signal	ጓኘ ፖ	2F	ጓጎጎ ፖ	ጓጎጎ ፖ	ጓኘ ፖ	٦٢	ካተተ ፖ	ጓጎጎ ፖ
7 Florin Perkins Road/Julliard Dr. & Folsom Boulevard	Signal	Signal	ጓኘ ፖ	41	ካተተ ፖ	51 ř	ጓኘ ፖ	41	ካተተ ፖ	51 ř
8 Florin Perkins Road & Kiefer Blvd.	Two-way stop	Two-way stop	t r	$\downarrow \downarrow \checkmark$		<u></u> ንፖ	1 r	$\downarrow \downarrow \checkmark$		<u></u> ንፖ
9 Florin Perkins Road & Jackson Road	Signal	Signal	ካተተ ፖ	414	<u>ካ† ፖፖ</u>	st ř	ካተተ ፖ	414	<u>ካ† ፖፖ</u>	nt r
10 Florin Perkins Road & Fruitridge Road	Signal	Signal	ካተተ ፖ	$\downarrow \downarrow \downarrow \checkmark$	ካተተ ፖ	st ř	ካተተ ፖ	~++5	ካተተ ፖ	nt r
11 Florin Perkins Road & Elder Creek Road	Signal	Signal	ካተተ ፖ	$\mathcal{A} \downarrow \downarrow \mathcal{L}$	ካተተ ፖ	ካተተ ፖ	ካተተ ፖ	2 I I V	ካተተ ፖ	ካተተ ፖ
12 Watt Avenue & Folsom Blvd.	Signal	Signal	<u> </u>	~+++ <i>rr</i>	<u>ካካ†† ፖ</u>	<u>ካካ†† ፖ</u>	<u>ካ</u> ካ†† ፖ	5 T T T T T T T T T T T T T T T T T T T	<u>ካካ†† ፖ</u>	<u>ካካ†† ፖ</u>
13 S. Watt Ave. & Reith Ct/Manlove Road	Signal	Signal	sttt c	4112	*	<u>ነ</u> ዮፖ	sttt r	4114	Ý	<u>ነ</u> ዮፖ
14 S. Watt Avenue & Kiefer Blvd.	Signal	Signal	ካካ†† ሾ	41177	<u>ካካ†† ፖ</u>	<u>ካካ†† ፖ</u>	ካካተተ ሾ	41177	<u>ካካ†† ፖ</u>	<u>ካካ†† ፖ</u>
15 S. Watt Avenue & Canberra Dr.	Signal	Signal	11 ř	$\downarrow \downarrow \checkmark$		ንሮ	11 ř	$\downarrow \downarrow \checkmark$		ንሮ
16 S. Watt Avenue & Jackson Road	Signal	Signal	ካተተ ፖ	$\mathcal{A} \downarrow \downarrow \mathcal{L}$	ካሾ	ካ† ፖ	ካተተ ፖ	2 I I V	<u>ካ</u> ኛ	ካ† ፖ
17 S. Watt Avenue & Fruitridge Road	Signal	Signal	<u> ነ</u> †	$\downarrow \downarrow \downarrow \checkmark$	ካ† ፖ	ኁሾ	<u> </u>	2 I I V	ካ† ፖ	ኁሾ
18 S. Watt Avenue & Elder Creek Road	Signal	Signal	<u>ካ</u> ተጽ	215	トア	ካ† ፖ	<u>ካ</u> ↑ፖ	₹ 1 ¢	7 r	ካ† ፖ
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	Signal	ጓተኛ	414	ጓተ ሾ	ካተተ ፖ	<u>ካ</u> ተዮ	415	ጓ† ሾ	ካተተ ፖ
21 Elk Grove Florin Road & Gerber Road	Signal	Signal	<u>ካ</u> ካተ ሾ	5 † † <i>r r</i>	<u>ካካ†† ፖ</u>	<u>ካካ†† ፖ</u>	<u>ካ</u> ካተኛ	5 † † <i>r r</i>	<u>ካካ†† ፖ</u>	<u>ካካ†† ፖ</u>
23 Hedge Avenue & Jackson Road	Signal	Signal	ኻሾ	45	<u>ካ† ፖ</u>	<u>ካ† ፖ</u>	ኁሾ	45	<u>ካ† ፖ</u>	ካ† ፖ
24 Hedge Avenue & Fruitridge Road	All-way stop	All-way stop	*	<b></b>	*	*	*	*	*	*
25 Hedge Avenue & Elder Creek Road	All-way stop	All-way stop	Ŷ	*	*	Ý	*	4	Ý	Ý
26 Hedge Avenue & Tokay Lane	Two-way stop	Two-way stop	Ŷ	*	*	Ŷ	*	*	Ŷ	Ŷ
27 Hedge Avenue & Florin Road	All-way stop	All-way stop	Ŷ	*	Ŷ	*	Ŷ	*	Ŷ	*
28 Mayhew Road & Kiefer Boulevard	Signal	Signal	<u>ካ</u> ተኛ	<b>₩</b> ↓ <b>₩</b>	ጓተ ሾ	ካተ ሾ	ኻ↑ሾ	245	ጓተ ሾ	ካተ ሾ
29 Mayhew Road & Jackson Road	Two-way stop	Two-way stop	<u>ግ</u> የ	*	ካ† ፖ	ኁሾ	ላ ፖ	*	ካ1 ፖ	ኁሾ

Table 3.7										
Existing and Existing Plus NewBridge Project Intersection Geo	metrics									
	Traffic	Control		Existing Lan	e Geometrics		Existin	ig Plus NewBridge	Project Lane Geor	netrics
Intersection	Existing	Existing Plus Project	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach
30 Mayhew Road & Fruitridge Road	Two-way stop	Two-way stop	7	4	Y		4	4	Y	
31 Mayhew Road & Elder Creek Road	Two-way stop	Two-way stop	*	*	*	*	*	*	Ŷ	Ŷ
32 Zinfandel Drive & Woodring Drive	Two-way stop	Two-way stop	7	4	Y		7	4	Y	
33 Bradshaw Road & Folsom Blvd.	Signal	Signal	<u>ካ</u> ካተኛ	N † † K	ካ11 ፖ	<u>ካካ†† ፖ</u>	<u>ካካ</u> ተ ሾ	2 I I I I	ካተተ ፖ	<u>ካካ†† ፖ</u>
34 Bradshaw Road & US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow$		<u> </u>	111 r	$\downarrow \downarrow \downarrow \downarrow$		<u> </u>
35 Bradshaw Road & US 50 EB Ramps	Signal	Signal	111 r	⊥ † † ∿	<u> </u>		111 m	⊥ † † ∿	<u> </u>	
36 Bradshaw Road & Old Placerville Road	Signal	Signal	5111 r	41144	ኻሾ	<u>እ</u> ካ† ፖ	<u>ግ 1 1 7</u>	41144	<b>ካ</b> ሾ	<u>ካካ</u> † ፖ
37 Bradshaw Road & Kiefer Boulevard	Signal	Signal	ካካተተ ፖ	2 I I V V	<u>ካካ</u> ተ ሾ	<u>ካካ</u> † ሾ	<u>ካ</u> ካ111 ፖ	2 I I V V	<u>ካካ</u> ተ ሾ	<u>ካካ</u> † ሾ
38 Bradshaw Road & Jackson Road	Signal	Signal	51 ř	~++5	ካ† ፖ	ה† מ	nt ř	~ ↓ ↓ <b>\</b>	ካ† ፖ	ካ† ፖ
39 Bradshaw Road & Elder Creek Road	Signal	Signal	<u> </u> ነተኛ	415	ኻኻሾ	ኻኻሾ	<u>ካ</u> ተ ሾ	415	ኻኻሾ	ኻኻሾ
40 Bradshaw Road & Florin Road	Signal	Signal	<u> </u> ነተኛ	415	ኻኻሾ	ኻኻሾ	<u>ካ</u> ተ ሾ	415	ኻኻሾ	ኻኻሾ
41 Bradshaw Road & Gerber Road	Signal	Signal	51 ř	414	ኻኻሾ	<u> </u>	nt ř	414	ኻኻሾ	ካሾ
42 Happy Lane & Old Placerville Road	Two-way stop	Two-way stop	<u></u> ንፖ		1 r	<b>ካ</b> †	<u></u> ነ ፖ		1 r	<u>ካ</u> †
43 Happy Lane & Kiefer Boulevard				لا	ň			لا	٦	
45 Excelsior Road & Jackson Road	Signal	Signal	ካሾ	45	ጓተ ሾ	ጓተ ሾ	<b>ካ</b> ሾ	45	ጓተ ሾ	ጓተ ሾ
46 Excelsior Road & Elder Creek Road	Two-way stop	Two-way stop	7	ل <i>د</i>	Y		7	† <i>د</i>	Y	
47 Excelsior Road & Florin Road	All-way stop	All-way stop	Ý	*	Ŷ	*	Ŷ	*	Ý	Ý
48 Excelsior Road & Gerber Road/Birch Ranch Drive	All-way stop	All-way stop	Ý	*	Ý	*	*	*	Ý	Ý
49 Mather Field Road & US 50 WB Ramps	Signal	Signal	<i>ح</i> † †	↓ ↓ ا		ን <b>∜</b>	11 r	↓ ↓ ل		۲Ŷ
50 Mather Field Road & US 50 EB Ramps	Signal	Signal	111 r	↓ ↓ ل	<u></u> ነ ሦፖ		111 <b>r</b>	↓ ↓ ل	<u></u> ነ ሦስ	
51 Mather Field Road & Rockingham Drive	Signal	Signal	<u>ה</u> ור לי	NTT R	ጓኘ ፖ	٦ P	<u> ነ</u> በር የ	NTT R	ካኘ ፖ	ላ ፖ
52 Mather Boulevard & Douglas Road	All-way stop	All-way stop	Ý	45	Ý	*	Ý	45	Ý	Ý
53 Zinfandel Drive & US 50 WB Ramps	Signal	Signal	111 r	↓ ↓ <i>ا</i>		ኻኻሾ	111 m	↓ ↓ ا		ኻኻሾ
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	Signal	t t t t t	↓ ↓ ا	<u>ነ</u> ነ ዮጵ	55	111 r	↓ ↓ ل	<u>ካ</u> ነ ኮፖ	55
55 Zinfandel Drive & White Rock Road	Signal	Signal	ካካተተ ሾ	5 T T T T T T T T	<u>ካ</u> ካተተ ሾ	<u>ካካ</u> ተ ሾፖ	<u>ካ</u> ካተተ ሾ	~+++~~	ካካ†† ሾ	<u>ካካ</u> ተ ዮጵ
56 Zinfandel Drive & Data Drive	Signal	Signal	ntt r	4114	۲Ψ	ንኘ ፖ	<u>ה</u> ור ל	4115	۶Ŷ	<u> ነ</u> ኘ ፖ
57 Zinfandel Drive & International Dr	Signal	Signal	<u>እ</u> እበበ ለ	41144	<u>ካ</u> ካተተ ሾ	<u>ካካ††</u> ፖ	<u> </u>	41144	<u>ካ</u> ካተተ ሾ	<u>ካካ††</u> ፖ

Table 3.7	Table 3.7													
Existing and Existing Plus NewBridge Project Intersection Geo	metrics													
	Traffic	Control		Existing Land	e Geometrics		Existin	g Plus NewBridge	Project Lane Geor	netrics				
Intersection	Existing	Existing Plus Project	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach				
58 Zinfandel Drive & Douglas Road	Signal	Signal	ኻሾ	245	ጓተ ሾ	ካ† ፖ	ኻሾ	245	ጓ† ሾ	ካ† ፖ				
59 Eagles Nest Road/Zinfandel Drive & Kiefer Boulevard			7			٦	7			٦ ٦				
60 Eagles Nest Road & Jackson Road	Two-way stop	Signal	*	*	<u>ነ</u> ኛ	ካሾ	<u>ካ</u> ሰኛ		<u>ካ</u> ካተ ሾ	stt e				
61 Eagles Nest Road & Florin Road	Two-way stop	Two-way stop	*	≁	*	≯	*	≁	Ý	r				
62 Sunrise Boulevard & US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow$		<u> </u>	111 r	, ↓↓↓↓		ኻኻሾሾ				
63 Sunrise Boulevard & US 50 EB Ramps	Signal	Signal	1111 r	⊥ † † ∿	<u> </u>		1111 r	↓ ↓ ↓ ∿	<u> </u>					
64 Sunrise Boulevard & Folsom Boulevard	Signal	Signal	<u>ካካተተተ ፖ</u>	~\\\\ <u>\</u>	<u>ካ</u> ካተተ ፖ	<u> ካካተ ሾፖ</u>	<u>እ</u> እ1111 ፖ	~+++~~	<u>ካካተተ ፖ</u>	ካካ† ሾፖ				
65 Sunrise Boulevard & White Rock Road	Signal	Signal	<u>ካ</u> ካ†† ፖ	~\\\\ <u>\</u>	<u>ካ</u> ካተተ ፖ	<u> </u>	<u>ካካተተ ፖ</u>	~+++~~	<u>ካካተተ ፖ</u>	<u> </u>				
66 Sunrise Boulevard & International Drive/Monier Circle	Signal	Signal	ካካተተ ሾ	~+++ <i>r</i>	<u> ነነ</u> የለ	ኻሾ	<u> ካ</u> ካተተ ሾ	~+++~	<u>ካካ† ፖፖ</u>	٦ř				
67 Sunrise Boulevard & Douglas Road	Signal	Signal	<u> </u>	~\\\ <i>\\</i>	<u>ካካ</u> † ሾ	<u>ካካተተ ፖ</u>	<u>ካካ†††</u> ፖ	$\mathcal{A} \downarrow \downarrow \downarrow \downarrow \mathcal{L} \mathcal{L}$	ካካተ ሾ	<u>ካካተተ ፖ</u>				
68 Sunrise Boulevard & Chrysanthy Boulevard	Signal	Signal	111 r	$\uparrow$ $\uparrow$ $r$ $r$		<u> </u>	111 <b>r</b>	$\downarrow$ $\uparrow$ $r$ $r$		ኻኁፘ				
69 Sunrise Boulevard & Kiefer Boulevard	Signal	Signal	ካተተ ፖ	ネーアア	*	ז <i>ר</i>	ካተተ ፖ	$\downarrow$ $\uparrow$ $\land$ $\checkmark$	ካካተተ ፖ	5 T T				
70 Sunrise Boulevard & Jackson Road	Signal	Signal	ኻሾ	2 L L	ካ† ፖ	ኻ† ፖ	<u> ጉ</u> ሾ	2   L	ካ† ፖ	۳ t r				
71 Sunrise Boulevard & Florin Road	Signal	Signal	<b>ħ</b> †	4	Y		<u>ጉ</u> †	₽	Y					
72 Sheldon Lake Drive/Sunrise Boulevard & Grant Line Road	Signal	Signal	Ý	42	ካ† ፖ	ካሾ	*	7 L	ካተ ፖ	ካሾ				
73 Hazel Avenue & Tributary Point Drive/US 50 WB Off-ramp	Signal	Signal	<u> ካ</u> ካ†††	$\checkmark \downarrow \downarrow \downarrow \downarrow \downarrow$	٢	<u> </u>	<u> </u>	$\checkmark\downarrow\downarrow\downarrow\downarrow\downarrow\downarrow$	۲	55 P				
74 Hazel Avenue & US 50 EB Ramps	Signal	Signal		ע↓↓	ነYፖ			ע↓	৲∀৫					
75 Hazel Avenue & Folsom Boulevard	Signal	Signal	ኁሾ	2425	<u>ካ</u> ካተ ሾ	ካ† ፖ	<u>ን</u> ሾ	2455	ካካ† ሾ	ካ† ፖ				
76 Prairie City Road & White Rock Road	Signal	Signal		25	<b>n</b> ††	11 r		25	<b>n</b> ††	<b>ب</b> 11				
77 Grant Line Road & White Rock Road	Signal	Signal	<b>ħ</b> ††	√ ↓ ↓	ኻኻሾ		<b>n</b> ††	ע↓	ኻኻሾ					
78 Grant Line Road & Douglas Road	All-way stop	All-way stop	7	4	Y		7	4	Y					
79 Grant Line Road & Kiefer Boulevard	All-way stop	All-way stop	Ý	*	*	*	*	4	*	Ŷ				
80 Grant Line Road & Jackson Road	Signal	Signal	Ý	*	ኁሾ	ኁሾ	*	4	<u>ካ</u> ዮ	ካሾ				
81 Watt Avenue & US-50 EB Ramps	Signal	Signal	1111 r	↓↓↓↓	<u> </u>		1111 r	$\downarrow \downarrow \downarrow \downarrow \downarrow$	<u> </u>					
82 Watt Avenue & US-50 WB Ramps	Signal	Signal	<u>ነ</u> ተ ተ ተ	₽4↓↓↓		<u> </u>	11 re	₽₽↓↓↓		<u> </u>				
83 Mayhew Rd & Folsom Blvd.	Signal	Signal	<u>ነ</u> ነለ		<b>*</b> † †	<u>n</u> ††	ኻኻፘ		11 r	n††				
84 65th Street Expy & Fruitridge Road	Signal	Signal	ጓጎጎ ፖ	2 I I V	<b>ħ</b> ††	<u>ካተተ ፖ</u>	ካተተ ፖ	2↓↓V	st t	ካተተ ፖ				

Table 3.7										
Existing and Existing Plus NewBridge Project Intersection Geo	ometrics									
	Traffic	Control		Existing Land	e Geometrics		Existin	g Plus NewBridge	Project Lane Geor	metrics
Intersection	Existing	Existing Plus Project	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach
85 Power Inn Road & Elder Creek Road	Signal	Signal	ጓተሾ	415	ካተተ ፖ	ጓተ ሾ	<u>ካ</u> ተ ሾ	415	ካተተ ፖ	ካ† ሾ
86 Power Inn Road & Florin Rd	Signal	Signal	ጓተሾ	N † † K	ካተተ ሾ	ካተተ ፖ	ካተኛ	$\gamma \downarrow \uparrow \gamma$	ካተተ ሾ	ካተተ ፖ
87 Florin Perkins Road & Florin Rd	Signal	Signal	ካተተ ፖ	~++~	ጓተ ሾ	ጓተ ሾ	ጓጎጎ ፖ	~++~	ካ† ሾ	<u>ה</u> ל ר
88 Bradshaw Rd & Calvine Rd	Signal	Signal	<u> </u>	21166	<u>ካካተተ ፖ</u>	<u>ካ</u> ካ† ሾ	<u> ካ</u> ካተ ሾ	21166	<u>ካካተተ ፖ</u>	<u>ካካ</u> † ሾ
89 Vineyard Rd & Calvine Rd	Signal	Signal	Ý	266	ጓተ ሾ	ጓተ ሾ	*	245	ጓተ ሾ	ካ† ሾ
90 Excelsior Road & Calvine Rd	All-way stop	All-way stop	Ý	*	Ý	Ý	*	*	Ý	Ý
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	Signal	ኻ↑ሾ	45	Ý	ንፖ	ኻ↑ሾ	45	Ý	ካሾ
92 Grant Line Rd & Calvine Rd	Signal	Signal	<u> ካ</u> †	4	Y		<u>ካ</u> †	4	Y	
93 Grant Line Rd & Dwy/Wilton Rd	Signal	Signal	ካሾ	45	ካሾ	ካሾ	5 ř	45	ካሾ	ካሾ
94 Grant Line Rd & Bond Rd/Wrangler Dr	Signal	Signal	ካሾ	245	۲ <i>۳</i>	Ý	5 ř	245	۲ r	Ý
203 Northbridge Dr & Kiefer Boulevard		Signal					ንፖ		t 7	<b>ħ</b> †
500 Rockbridge Dr & Jackson Road		Signal						25	n††	t 77
501 Zinfandel Drive & N Bridgewater Dr		Signal					1 P	$\downarrow \downarrow \checkmark$		ኻሾ
502 Zinfandel Drive & S Bridgewater Dr		Signal					<u>ካ</u> ተዮ	415	ካ† ፖ	ካ† ፖ

## 3.4.3 Existing Plus NewBridge Project U.S. 50 Freeway Impacts

### 3.4.3.1 Freeway Mainline

Table 3.8 summarizes a.m. and p.m. peak hour US 50 freeway mainline operations. Details of the analysis are included in the technical appendix. The following locations exhibit significant impacts:

- Eastbound US 50
  - Stockton Boulevard to 59th Street a.m. and p.m. peak hours
  - Bradshaw Road to Mather Field Road a.m. peak hour
  - Zinfandel Drive to Hazel Avenue p.m. peak hour
- Westbound US 50
  - Mather Field Road to Watt Avenue a.m. peak hour
  - Watt Avenue to 59th Street a.m. and p.m. peak hours
  - 59th Street to SR 51 / SR 99 p.m. peak hour

### 3.4.3.2 Freeway Ramp Junctions / Weaving

Table 3.9 summarizes a.m. and p.m. peak hour freeway operations at ramp junctions and weaving areas. Details of the analysis are included in the technical appendix. The following locations exhibit significant impacts:

- Eastbound
  - Mather Field Road to Zinfandel Drive weave a.m. peak hour
- Westbound
  - Sunrise Boulevard Entrance a.m. peak hour

### 3.4.3.3 Freeway Ramp Intersection Queuing

Table 3.10 summarizes a.m. and p.m. peak hour freeway ramp intersection queuing. No locations exhibit a significant impact.

### 3.4.4 Existing Plus NewBridge Project Pedestrian and Bicycle Facility Impacts

The NewBridge project would not remove any existing or planned pedestrian facility. The NewBridge project would not remove any existing bicycle facility or any facility that is planned in the Bikeway Master Plan. The NewBridge project would add pedestrian and bicycle demands within the NewBridge project site and to and from nearby land uses. As illustrated in Figure 3.2, the NewBridge project has proposed changes to the Bikeway Master Plan. Because the NewBridge project would add demand for pedestrian and bicycle facilities that may not be available in the site vicinity, the impact of the NewBridge project on pedestrian and bicycle circulation is potentially significant.

Table 3	.8: Existing Plus NewBridge Project I	Peak Hour	Freeway	Mainline L	evel of Se	ervice								
			Exi	sting		Existi	ng Plus Ne	wBridge P	roject					
Direc- tion	Location	AM Pea	k Hour	PM Pea	k Hour	AM Pea	k Hour	PM Pea	k Hour					
uon		Volume	LOS	Volume	LOS	Volume	LOS	Volume	LOS					
East-	SR 99 / SR 51 to Stockton Boulevard	7,068	С	6,415	С	7,124	С	6,436	С					
bound	Stockton Boulevard to 59th Street	7,470	F	7,228	F	7,537	F	7,261	F					
US 50	59th Street to 65th Street	6,767	D	6,641	D	6,827	D	6,659	D					
	65th Street to Howe Avenue	7,962	D	7,562	D	8,039	D	7,582	D					
	Howe Avenue to Watt Avenue 7,405 D 7,602 D 7,437 D 7,660 D													
	Watt Avenue to Bradshaw Road         7,935         D         7,176         C         7,958         D         7,253         C													
	Bradshaw Rd to Mather Field Rd	7,725	F	7,366	С	7,733	F	7,414	С					
	Mather Field Rd to Zinfandel Drive	7,275	С	7,224	С	7,294	С	7,294	С					
	Zinfandel Drive to Sunrise Blvd	5,121	С	6,649	F	5,146	С	6,709	F					
	Sunrise Boulevard to Hazel Avenue	4,985	С	5,323	F	5,054	С	5,362	F					
West-	Hazel Avenue to Sunrise Boulevard	6,068	D	4,370	С	6,083	D	4,436	С					
bound	Sunrise Blvd to Zinfandel Drive	7,502	D	4,762	С	7,566	D	4,807	С					
US 50	Zinfandel Drive to Mather Field Rd	7,548	С	5,765	В	7,620	С	5,800	В					
	Mather Field Rd to Bradshaw Road	7,859	F	6,939	D	7,909	F	6,931	D					
	Bradshaw Road to Watt Avenue	7,550	F	6,466	D	7,626	F	6,499	D					
	Watt Avenue to Howe Avenue	7,376	F	5,106	F	7,429	F	5,133	F					
	Howe Avenue to 65th Street	8,157	F	7,407	F	8,232	F	7,417	F					
	65th Street to 59th Street	8,278	F	7,358	F	8,310	F	7,378	F					
	59th Street to Stockton Boulevard	9,115	D	7,945	F	9,152	D	7,971	F					
	Stockton Boulevard to SR 99 / SR 51	8,546	D	8,136	F	8,571	D	8,160	F					
Bold val	lues denote level of service "F" condition	18.												
Red sha	ded values indicate project impacts.													
Source:	DKS Associates, 2014.													

Table 3.	Fable 3.9: Existing Plus NewBridge Project Peak Hour Freeway Ramp Junction/Weaving Level of Service         Fyisting         Evisting														
				Exis	sting		Existing	Plus Ne	ewBridge P	roject					
Direc- tion	Location	Junction Type	A.M. P Hou	Peak Ir	P.M. I Hou	Peak 1r	A.M. F Hou	Peak Ir	P.M. P Hou	eak r					
uon			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS					
East- bound	Northbound 65th Street Slip Entrance	Waaya	765	D	653	C	773	D	655	C					
US 50	Howe Avenue / Hornet Drive Exit	weave	1,631	D	1,417	C	1,665	D	1,381	C					
	Southbound Howe Avenue Loop Entrance	One-Lane Merge	484	С	881	С	476	С	874	С					
	Northbound Howe Avenue Slip Entrance	One-Lane Merge	419	С	431	С	431	С	448	С					
	Watt Avenue Exit	Two-Lane Diverge	1,317	В	1,634	В	1,317	В	1,611	В					
	Watt Avenue Entrance	One-Lane Merge	2,134	F	1,724	D	2,131	F	1,727	D					
	Bradshaw Road Exit	Two-Lane Diverge	1,520	В	1,228	В	1,538	В	1,257	В					
	Southbound Bradshaw Road Loop Entrance	One-Lane Merge	220	С	422	С	217	С	421	С					
	Northbound Bradshaw Road Slip Entrance	One-Lane Merge	971	С	918	С	976	С	925	С					
	Mather Field Road Exit	Two-Lane Diverge	1,266	В	1,062	А	1,262	В	1,080	А					
	Southbound Mather Field Road Loop Entrance	One-Lane Merge	125	С	101	В	120	С	105	В					

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Table 3.	9: Existing Plus NewBridge	Project Peak Hour F	'reeway Ra	amp Ju	nction/We	eaving L	evel of Se	rvice		
				Exis	sting		Existing	Plus Ne	wBridge P	Project
Direc-	Location	Junction Type	A.M. P Hou	'eak r	P.M. I Hou	Peak 1r	A.M. H Hou	Peak Ir	P.M. P Hou	eak r
uon			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS
	Northbound Mather Field Road Slip Entrance	Weave	317	F	816	С	327	F	840	С
	Zinfandel Drive Exit		2,932		1,452		2,934		1,465	
	Southbound Zinfandel Drive Loop Entrance	One-Lane Merge	182	В	129	С	181	В	129	С
	Northbound Zinfandel Drive Slip Entrance	One-Lane Merge	348	В	540	С	359	В	545	С
	Sunrise Boulevard Exit	Major Diverge	1,773	С	1,959	D	1,763	С	1,976	D
	Sunrise Boulevard Entrance	One-Lane Merge	992	С	889	D	1,023	С	890	D
	Hazel Avenue Exit	Two-Lane Diverge	933	В	1,541	С	958	В	1,547	С
	Hazel Avenue Entrance	Waawa	804	C	945	C	792	C	948	C
	Aerojet Road Exit	weave	241	U	55	U	241	U	51	C
West-	Hazel Avenue Exit	Two-Lane Diverge	631	А	869	А	662	А	869	В
bound US 50	Northbound Hazel Avenue Loop Entrance	One-Lane Merge	160	В	600	В	163	В	612	В
	Southbound Hazel Avenu Slip Entrance	One-Lane Merge	1,550	В	800	В	1,558	В	821	В

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Table 3.	Table 3.9: Existing Plus NewBridge Project Peak Hour Freeway Ramp Junction/Weaving Level of Service												
				Exis	sting		Existing Plus NewBridge Project						
Direc- tion	Location	Junction Type	A.M. Peak Hour		P.M. Peak Hour		A.M. Peak Hour		P.M. Peak Hour				
uon			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS			
	Sunrise Boulevard Exit	One-Lane Diverge	749	Е	758	D	701	Е	783	D			
	Sunrise Blvd Entrance	Lane Addition	2,183	F	1,656	D	2,186	F	1,658	D			
	Zinfandel Drive Exit	One-Lane Diverge	1,034	E	608	С	1,046	E	609	С			
	Northbound Zinfandel Drive Loop Entrance	Lane Addition	585	В	1,197	В	617	В	1,180	В			
	Southbound Zinfandel Drive Slip Entrance	One-Lane Merge	442	С	561	В	447	С	569	В			
	Mather Field Road Exit	One-Lane Drop	1,093	С	556	А	1,125	С	583	А			
	Northbound Mather Field Road Loop Entrance	One-Lane Merge	515	В	861	В	520	В	878	В			
	Southbound Mather Field Road Slip Entrance	One-Lane Merge	387	В	380	В	383	В	349	В			
	Bradshaw Road Exit	Two-Lane Diverge	1,236	В	1,327	В	1,251	В	1,319	В			
	Northbound Bradshaw Road Loop Entrance	One-Lane Merge	914	D	910	С	946	D	930	С			
	Southbound Bradshaw Road Slip Entrance	One-Lane Merge	338	D	590	С	337	D	608	С			
	Watt Avenue Exit	Major Diverge	1,373	D	1,188	С	1,384	D	1,195	С			
	Northbound Watt Avenue Entrance	One-Lane Merge	820	D	943	С	806	D	948	С			

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Table 3.9: Existing Plus NewBridge Project Peak Hour Freeway Ramp Junction/Weaving Level of Service												
				Exis	sting		Level of Service         Existing Plus NewBridge         A.M. Peak Hour       P.M. Ho         Ramp Volume       LOS       Ramp Volume         1,234       C       1,313         1,540       D       1,439         655       D       600         564       C       564	ewBridge P	roject			
Direc- tion	Location	Junction Type	A.M. Peak Hour Hour		A.M. F Hou	Peak Ir	P.M. P Hou	Project Peak our LOS D C C				
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS		
	Southbound Watt Avenue Slip Entrance	Lane Addition / Weave	1,232	С	1,317	D	1,234	С	1,313	D		
	Howe Avenue Exit	Major Diverge / Weave	1,531	D	1,419	D	1,540	D	1,439			
	Northbound Howe Avenue Loop Entrance	One-Lane Merge	654	D	602	С	655	D	600	С		
	Southbound Howe Avenue Slip Entrance	One-Lane Merge	574	С	574	С	564	С	564	С		
Bold values denote level of service "F" conditions.												
Red sha	ded values indicate project in	pacts.										
Source:	DKS Associates, 2014.											

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Table 5.10: 1	Existing Plus New Dridge		eak nour	rreeway K			ing							
		Availab	le Storage	Length		Maximu	Im Queue	Length (fe	et / lane)	e) Hour R 248 186 412 69 123 90 26 469 167 103 101 31				
			(feet / lane	lane)		M Peak Ho	our	PI	M Peak Ho	our				
Direction	US 50 Exit Ramp	L	Т	R	L	Т	R	L	Т	R				
Eastbound	Howe Avenue	765	-	765	202	-	395	226	-	248				
US-50	Watt Avenue	1,500	-	1,500	156	_	209	249	_	186				
	Bradshaw Road	1,250	_	1,250	193	_	556	169	-	412				
	Mather Field Road	1,385	_	1,385	198	_	572	276	-	69				
	Zinfandel Drive	1,025	1,025	1,025	225	812	736	412	341	123				
	Sunrise Boulevard	1,695	_	1,695	280	_	185	371	-	90				
	Hazel Avenue	1,310	_	1,310	312	_	84	817	-	26				
Westbound	Hazel Avenue	1,9	995	1,995	2	68	50	295		469				
US-50	Sunrise Boulevard	1,540	-	1,540	130	_	135	154	-	167				
	Zinfandel Drive	1,065	-	1,065	429	-	67	65	_	103				
	Mather Field Road	1,335	_	1,335	629	_	575	242	_	101				
	Bradshaw Road	1,330	_	1,330	321	_	117	399	-	31				
	Watt Avenue	1,480	_	1,480	155	_	512	104	-	471				
	Howe Avenue	1,355	1,355	1,355	197	412	131	250	412	242				
<b>Red shaded</b> L = left turn to <i>Source:</i> DK	values indicate project imp movement, T = through m S Associates, 2014.	pacts. ovement, R	= right turr	n movemen	t									

## 3.4.5 Existing Plus NewBridge Project Transit System Impacts

Public transit is not currently provided to the NewBridge project site. In the preparation of this analysis, a conceptual transit system to serve the NewBridge project and adjacent future projects was developed (see Section 3.1.2.3). The additional transit service was assumed to be funded by the NewBridge project. However, the timing and implementation of the transit system are uncertain at this time. The NewBridge project would increase demands for public transit facilities. Therefore, the impact of the NewBridge project on the transit system is potentially significant.

## 3.4.6 Existing Plus NewBridge Functionality Impacts

Table 3.11 summarizes the results of the rural roadway segment functionality analysis. Figure 3.6 illustrates the resultant functionality impacts. The table includes the number of lanes assumed with the implementation of the NewBridge project, which in many cases is greater than the number of lanes in the existing condition. The shaded table cells under the "Travel Lanes" heading illustrates new roadways and widened roadways that are assumed part of the NewBridge project. The "Substandard?" heading indicates whether or not a roadway meets the County standards of 12-foot lanes and 6-foot shoulders. If the project makes improvements to a roadway segment to County standards. The shaded table cells under the "Functionality Impact?" heading indicate those locations with a functionality impact.

As stated above, the traffic analysis assumed that the NewBridge project would construct a number of travel lanes on roadway segments that are internal to or on the boundary of the NewBridge project, and the entire roadway segment would be reconstructed to County standards at that time. The timing of implementation of such additional traffic lanes on these internal or boundary roadway segments will affect whether or not impacts would exist at some time prior to full build out of the NewBridge project.

# Table 3.11Existing Plus NewBridge Project Functionality Impacts

		Segment			Existing Substandard Roadways					Existing + NewBridge Project			
ID	Roadway	From	То	Jurisdiction	Travel Lanes	Pavement (ft)	Substandard? <sup>1</sup>	Existing Volume	Travel Lanes	Substandard? <sup>1</sup>	Forecasted Volume	Functionality Impact? <sup>2</sup>	
15	Douglas Rd	Mather Blvd	Zinfandel Dr	County	2	23	Yes	6,635	2	Yes	7,250	Yes	
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	Rancho Cordova/County	2	23	Yes	8,369	2	Yes	9,750	Yes	
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	County	2	20	Yes	740	4	No	9,790	Yes <sup>3</sup>	
20	Eagles Nest Rd	Jackson Rd	Florin Rd	County	2	<21	Yes	517	2	Yes	3,460	No	
21	Eagles Nest Rd	Florin Rd	Grant Line Rd	County	2	<21	Yes	189	2	Yes	1,330	No	
25	Elder Creek Rd	South Watt Ave	Hedge Ave	County	2	23	Yes	5,576	2	Yes	6,300	Yes	
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	County	2	23	Yes	5,797	2	Yes	6,540	Yes	
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	County	2	23	Yes	5,355	2	Yes	6,400	Yes	
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd	County	2	23	Yes	2,158	2	Yes	3,440	No	
30	Excelsior Rd	Kiefer Blvd	Jackson Rd	County	2	22	Yes	3,716	2	Yes	3,660	No	
31	Excelsior Rd	Jackson Rd	Elder Creek Rd	County	2	<21	Yes	5,075	2	Yes	5,470	No	
32	Excelsior Rd	Elder Creek Rd	Florin Rd	County	2	<21	Yes	4,203	2	Yes	3,990	No	
33	Excelsior Rd	Florin Rd	Gerber Rd	County	2	<21	Yes	5,423	2	Yes	5,390	No	
34	Excelsior Rd	Gerber Rd	Calvine Rd	County	2	<21	Yes	4,229	2	Yes	3,970	No	
39	Florin Rd	South Watt Ave	Hedge Ave	County	2	22	Yes	7,718	2	Yes	8,940	Yes	
40	Florin Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	6,312	2	Yes	7,680	Yes	
41	Florin Rd	Mayhew Rd	Bradshaw Rd	County	2	22	Yes	6,317	2	Yes	7,750	Yes	
42	Florin Rd	Bradshaw Rd	Excelsior Rd	County	2	22	Yes	3,478	2	Yes	5,110	No	
43	Florin Rd	Excelsior Rd	Sunrise Blvd	County	2	22	Yes	3,835	2	Yes	5,910	No	
48	Fruitridge Rd	South Watt Ave	Hedge Ave	City of Sacramento/ County	2	22	Yes	2,890	2	Yes	3,140	No	
49	Fruitridge Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	1,790	2	Yes	2,030	No	
50	Grant Line Rd	White Rock Rd	Douglas Rd	Rancho Cordova/County	2	22	Yes	7,189	2	Yes	7,920	Yes	
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	County	2	22	Yes	4,635	2	Yes	6,660	Yes	
59	Hedge Ave	Jackson Rd	Fruitridge Rd	County	2	22	Yes	3,061	2	Yes	2,970	No	
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	City of Sacramento/County	2	22	Yes	3,737	2	Yes	3,680	No	
61	Hedge Ave	Elder Creek Rd	Florin Rd	County	2	22	Yes	2,722	2	Yes	2,790	No	

Red text with light gray shading indicate project impacts.



## **Table 3.11 Existing Plus NewBridge Project Functionality Impacts**

		Seg	ment		]	Existing Subs	Sting Substandard RoadwaysExisting + NewBridge ProjectPavement (ft)Substandard? 1Existing VolumeTravel LanesSubstandard? 1Forecasted VolumeFunctionality Impact? 226Yes13,0302Yes18,090Yes26Yes10,4782Yes17,610Yes26Yes10,4782Yes17,610Yes22Yes4,6162Yes4,810No22Yes4,6182Yes5,500No22Yes6563No7,510Yes³22Yes6,7512Yes6,660No22Yes1,6162Yes1,860No22Yes2,4902Yes2,520No					
ID	Roadway	From	То	Jurisdiction	TravelPavementLanes(ft)		Substandard? <sup>1</sup>	Existing Volume	Travel Lanes	Substandard? <sup>1</sup>	Forecasted Volume	Functionality Impact? <sup>2</sup>
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	County	2	26	Yes	13,030	2	Yes	18,090	Yes
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	County	2	26	Yes	10,478	2	Yes	17,610	Yes
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	City of Sacramento/County	2	22	Yes	4,616	2	Yes	4,810	No
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	County	2	22	Yes	4,618	2	Yes	5,500	No
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	County	2	22	Yes	656	3	No	7,510	Yes <sup>3</sup>
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd	County	2	22	Yes	6,751	2	Yes	6,660	No
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	County	2	22	Yes	1,616	2	Yes	1,860	No
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	Rancho Cordova/County	2	20	Yes	2,490	2	Yes	2,520	No
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	County	2	<21	Yes	2,848	2	Yes	2,860	No

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

<sup>2</sup> Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT.

<sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.

Red text with light gray shading indicate project impacts.





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Substandard Roadways

Functionality Impact if Roadway is Not Already Improved

Functionaityl Impact

Mather Airport

Cities

# Legend



### 3.5 MITIGATION

### 3.5.1 Existing Plus NewBridge Project Roadway Segment Mitigation

Table 3.12 summarizes the results of the operations analysis for the study area roadway segments with mitigation. Where feasible, the number of roadway lanes was increased to mitigate the impact. However, the increased number of lanes could not exceed the maximum General Plan designations of the appropriate jurisdictions. The shaded table cells under the "Travel Lanes" and "Facility Type" headings illustrate widened roadways for mitigation purposes, which would be the responsibility of the NewBridge project to implement. The shaded table cells under the "Level of Service" heading indicate those locations that would continue to have LOS impacts after mitigation. The table also includes the constraint that precluded full mitigation of the LOS impact.

The "LOS Impact with Mitigation?" column shows whether there is still an LOS impact after the mitigation measure is applied. In other words, this column shows whether a mitigation measure successfully mitigates the impact or not. In several locations where the improvements allowed under the General Plan would not mitigate an LOS impact, the County has proposed alternative mitigation measures, which are shown in the "Alternative Mitigation" column. These alternative mitigation measures will either fully mitigate the impact or substantially reduce the level of impact.

### 3.5.2 Existing Plus NewBridge Project Intersection Mitigation

Tables 3.13 and 3.14 summarize the results of the operations analysis for the study area intersections with mitigation. However, the increased number of lanes on each approach does not exceed the County's standard number of approach lanes. Shaded table cells in Table 3.14 indicate those locations where changes in traffic control and / or number of approach lanes by type have been made which would be the responsibility of the NewBridge project to implement. As shown in Table 3.13, all LOS impacts have been fully mitigated. Detailed analysis information is included in the technical appendix.

The "LOS Impact with Mitigation?" column in Table 3.14 shows whether there is still an LOS impact after the mitigation measure is applied. In other words, this column shows whether a mitigation measure successfully mitigates the impact or not. In locations where the LOS impact could not be mitigated by implementing the County's standard number of approach lanes, the County has proposed alternative mitigation measures, which are shown in the "Alternative Mitigation" column. These generally include providing additional turn lanes, carrying an additional through lane past the intersection, or designating the intersection as a High Capacity Intersection. These alternative mitigation measures will either fully mitigate the impact or substantially reduce the level of impact.

## 3.5.3 Existing Plus NewBridge Project U.S. 50 Freeway Mitigation

Capacity improvements such as widening of the freeway and freeway junctions would reduce the severity of the impacts, but were generally not considered feasible due to right-of-way

restrictions, legal constraints, and the numerous transportation structures that would need to be modified and/or replaced. Potential alternative improvements have been identified from Caltrans' US-50 Transportation Concept Report (TCR) and Corridor System Management Plan (CSMP). The TCR and CSMP is focused on intelligent transportation systems (ITS) and integrated corridor management (ICM) projects that would have operational benefits to US-50 without adding additional capacity. The TCR and CSMP also identify potential improvements to parallel local facilities that would be expected to reduce travel demand on US-50. The NewBridge project will participate in one or more of these alternative improvements that could directly reduce the severity of the project's impact and/or provide operational benefits to the US-50 corridor in general.

## 3.5.3.1 US-50 Eastbound Alternative Improvements

To lessen the impact to the eastbound US-50 mainline between Stockton Boulevard and 59th Street, the project may pay a fair share toward the construction of:

• Ramp meter improvements (Caltrans ITS/OPS Project List)

To lessen the impact to the eastbound US-50 mainline between Bradshaw Road and Mather Field Road, and to the weave between Mather Field Road to Zinfandel Drive, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Bradshaw Road and Mather Field Road (2035 SACOG MTP)
- An interchange modification of US-50 at Mather Field Road (2035 SACOG MTP)

To lessen the impact to the eastbound US-50 mainline between Zinfandel Drive and Hazel Avenue, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Zinfandel Drive and Sunrise Boulevard (2035 SACOG MTP)
- Auxiliary lanes between Sunrise Boulevard and Hazel Avenue (2035 SACOG MTP)
- Widen Sunrise Boulevard to 6 lanes with special treatments, including intersection improvements at White Rock Road, Folsom Boulevard, Coloma Road, Gold Express Drive, and Gold Country Boulevard (2035 SACOG MTP)
- A new interchange at Rancho Cordova Parkway, including a 4-lane arterial from US-50 to White Rock Road (2035 SACOG MTP)
- Multi-modal corridor improvements and interchange improvements at Hazel Avenue (2035 SACOG MTP)

## 3.5.3.2 US-50 Westbound Alternative Improvements

To lessen the impact to the westbound US-50 on-ramp at Sunrise Boulevard, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Sunrise Boulevard and Zinfandel Drive (2035 SACOG MTP)
- A transition lane from the Sunrise Boulevard slip off-ramp to the Sunrise Boulevard slip on-ramp (2035 SACOG MTP)

To lessen the impact to the westbound US-50 mainline between Mather Field Road and Watt Avenue, the project may pay a fair share toward the construction of:

• Auxiliary lanes between Mather Field Road and Bradshaw Road (2035 SACOG MTP)
• An interchange modification of US-50 at Mather Field Road (2035 SACOG MTP)

To lessen the impact to the westbound US-50 mainline between Watt Avenue and SR-51/SR-99, the project may pay a fair share toward the construction of:

- Bus/HOV lanes from Watt Avenue to Downtown Sacramento (2035 SACOG MTP)
- Replacement of existing communication lines with fiber optics to improve performance between SR-51/SR-99 and Watt Avenue (2013 10-Year SHOPP Plan)
- Auxiliary lane between the NB Howe Avenue on-ramp and the SB Howe Avenue on-ramp (2035 SACOG MTP)
- Ramp meter improvements (Caltrans ITS/OPS Project List)

# Table 3.12Existing Plus NewBridge Project Roadway Segment Mitigations

		Segi	ment		Existing	g + NewBridg	e Project		Mitigated Existing + NewBridge Project						
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd	2	Arterial M	16,320	0.91	E	4	Arterial M	0.45	А	No		
44	Folsom Blvd	Howe Ave	Jackson Rd	4	Arterial M	38,790	1.08	F	4	Arterial M	1.08	F	Yes		Maximum General Plan lanes
55	Grant Line Rd	Calvine Rd	Sheldon Rd	2	Rural S	14,240	0.71	E	4	Arterial M	0.40	А	No		
62	Howe Ave	US 50	Folsom Blvd	6	Arterial M	54,510	1.01	F	6	Arterial M	1.01	F	Yes		Maximum General Plan lanes
67	Jackson Rd	South Watt Ave	Hedge Ave	2	Arterial M	19,820	1.10	F	4	Arterial M	0.55	А	No		
69	Jackson Rd	Mayhew Rd	Bradshaw Rd	2	Arterial M	18,170	1.01	F	4	Arterial M	0.50	А	No		
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	2	Arterial M	18,090	1.01	F	4	Arterial M	0.50	Α	No		
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	2	Rural Hwy	14,120	0.62	E	4	Arterial M	0.39	A	No		
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd	2	Arterial M	18,370	1.02	F	4	Arterial M	0.51	А	No		

Note: Gray shading represents changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage

<sup>2</sup> Alternative mitigations represent proposed mitigations beyond the General Plan, as proposed by the County of Sacramento.



	AM Peak Hour									PM Peak Hour	r			
	Existing Plus NewBridge Project			Mitigated Existing Plus NewBridge Project			Existing Plus NewBridge Project				Mitigated Existing Plus NewBridge Project			
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
29 Mayhew Road & Jackson Road	Two-way stop	А	1.7	No				Two-way stop	А	2.1	Yes	Signal	С	31.5
Northbound Through - Left Turn		Е	36.6						F	50.0				
Northbound Right Turn		В	13.0						С	15.9				
Southbound		С	22.2						D	33.6				
Eastbound Left Turn		А	9.0						A	8.7				
Westbound Left Turn		Α	8.7						Α	9.6				
38 Bradshaw Road & Jackson Road	Signal	F	86.2	Yes	Signal	E	69.5	Signal	Е	65.4	No			
42 Happy Lane & Old Placerville Road	Two-way stop	В	11.8	Yes	Signal	С	28.0	Two-way stop	В	12.5	Yes	Signal	С	26.4
Northbound Left Turn		F	201.8						F	288.0				
Northbound Right Turn		E	36.1						С	17.5				
Westbound Left Turn		В	11.0						В	10.2				

Table 3.14	able 3.14													
Existing Plus NewBridge Project Intersection Impacts and Mitigations														
	Traffic	Traffic Control		Existing Plus NewBridge Project Lane Geometrics			Mitigated Existing Plus NewBridge Project Lane Geometrics				LOS Impact	t High Capacity		Constraint if Full
Intersection	Existing Plus Project	Mitigated Existing Plus Project	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	with Mitgation?		Alternative Mitigation <sup>2</sup>	Mitigation Not Possible
29 Mayhew Road & Jackson Road	Two-way stop	Signal	ላ ፖ	*	ግ† ፖ	<u>ካ</u> ዮ	ላ ፖ	*	ጓተ ፖ	ካሾ	No	No		
38 Bradshaw Road & Jackson Road	Signal	Signal	ኻተሾ	$\gamma \uparrow \uparrow \gamma$	ካ† ፖ	ካ† ፖ	<u> ካ</u> ተ ዮ	$\gamma \uparrow \uparrow \gamma$	ካተ ፖ	511 r	No	No		
42 Happy Lane & Old Placerville Road	Two-way stop	Signal	<u></u> ነ ፖ		† r	<b>ħ</b> †	ኻ↑ሾ	245	<u>ካካ</u> ተ ሾ	511 r	No	No	Realign Happy Lane to Routier Road (2 lanes)	
High capacity intersections are defined in the Sacramento County General Plan and may include grade separations, additional turn lanes, and/or other features as deemed appropriate by the County. Alternative mitigations represent proposed mitigations beyond the General Plan, excluding high capacity intersections, as proposed by the County of Sacramento.														

Note: Gray shading represents changes in traffic control or approach lanes that the project is responsible to provide.

#### 3.5.4 Existing Plus NewBridge Project Pedestrian and Bicycle Facility Mitigation

The NewBridge project applicant shall coordinate with Sacramento County to identify the necessary on- and off-site pedestrian and bicycle facilities to serve the proposed development. These facilities shall be incorporated into the NewBridge project and could include sidewalks, stop signs, standard pedestrian and school crossing warning signs, lane striping to provide a bicycle lane, bicycle parking, signs to identify pedestrian and bicycle paths, raised crosswalks, pedestrian signal heads, and all appropriate traffic calming measures as defined in the County's Neighborhood Traffic Management Program (NTMP). Sidewalks would be required as part of the frontage improvements along all new roadway construction in the NewBridge project vicinity in conformance with County design standards. Circulation and access to all proposed public spaces shall include sidewalks that meet Americans with Disabilities Act standards.

#### 3.5.5 Existing Plus NewBridge Project Transit System Mitigation

The NewBridge project applicant shall coordinate with Regional Transit (or other transit operators) to provide the additional transit facilities and services assumed in transportation analysis (see Section 3.1.2.3), or a cost-effective equivalent level of transit facilities and services.

The assumed transit routes and service frequency would be required at full development of the NewBridge project. The full level of transit service would not achieve adequate transit ridership during the early stages of development. Thus the ultimate transit service, like the roadway system serving the NewBridge project, must be phased with development of the NewBridge project.

#### 3.5.6 Existing Plus NewBridge Project Functionality Mitigation

Table 3.15 summarizes the results of the functionality analysis for the study area rural roadway segments with mitigation.

#### 3.5.7 Existing Plus NewBridge Project Mitigation Summary

Tables 3.16 through 3.20 summarize all of the roadway segments, intersections, and freeway facilities that would exhibit significant LOS impacts along with the mitigation success for these impacts.

### **Table 3.15 Existing Plus NewBridge Project Functionality Mitigations**

		Seg	ment		Existing + Ne	wBridge Proje	ect		Impact offer
ID	Roadway	From	То	Travel Lanes	Substandard? <sup>1</sup>	Forecasted Volume	Functionality Impact? <sup>2</sup>	Mitigation	Mitigation?
15	Douglas Rd	Mather Blvd	Zinfandel Dr	2	Yes	7,250	Yes	Widen to County standards <sup>5</sup>	No
16	Douglas Rd	Zinfandel Dr	Zinfandel Dr Sunrise Blvd		Yes	9,750	Yes	Widen to County standards <sup>5</sup>	No
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd		No	9,790	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
25	Elder Creek Rd	South Watt Ave	South Watt Ave Hedge Ave 2		Yes	6,300	Yes	Widen to County standards <sup>5</sup>	No
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	2	Yes	6,540	Yes	Widen to County standards <sup>5</sup>	No
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	2	Yes	6,400	Yes	Widen to County standards <sup>5</sup>	No
39	Florin Rd	South Watt Ave	Hedge Ave	2	Yes	8,940	Yes	Widen to County standards <sup>5</sup>	No
40	Florin Rd	Hedge Ave	Mayhew Rd	2	Yes	7,680	Yes	Widen to County standards <sup>5</sup>	No
41	Florin Rd	Mayhew Rd	Bradshaw Rd	2	Yes	7,750	Yes	Widen to County standards <sup>5</sup>	No
50	Grant Line Rd	White Rock Rd	Douglas Rd	2	Yes	7,920	Yes	Widen to County standards <sup>5</sup>	No
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	2	Yes	6,660	Yes	Widen to County standards <sup>5</sup>	No
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	2	Yes	18,090	Yes	Widen to County standards <sup>5</sup>	No
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	2	Yes	17,610	Yes	Widen to County standards <sup>5</sup>	No
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	3	No	7,510	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

<sup>2</sup> Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT. <sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.

**Red** text with light gray shading indicate project impacts.



# Table 3.16 Existing Plus NewBridge Project Summary of Impacted Roadway Segments



т	Deadway	Segr	nent							
ID	Koauway	From	То							
	Level of Service Impa	ct Fully Mitigated by Gene	eral Plan Lanes							
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd							
55	Grant Line Rd	Calvine Rd	Sheldon Rd							
67	Jackson Rd	South Watt Ave	Hedge Ave							
69	Jackson Rd	Mayhew Rd	Bradshaw Rd							
70	Jackson Rd	Bradshaw Rd	Excelsior Rd							
73	Jackson Rd	Sunrise Blvd	Grant Line Rd							
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd							
	Level of Service Impact Not Fully Mitigated by General Plan Lanes									
44	Folsom Blvd	Howe Ave	Jackson Rd							
62	Howe Ave	US 50	Folsom Blvd							

Note: Refer to Table 3.12 for detailed description of impacts and mitigations.

Tabl	able 3.17									
Exis	Existing Plus NewBridge Project Summary of Impacted Intersections									
Intersection										
Level of Service Impact Fully Mitigated by General Plan Lanes										
29	Mayhew Road & Jackson Road									
38	38 Bradshaw Road & Jackson Road									
42	Happy Lane & Old Placerville Road	**								
<sup>1</sup> Alte high	<sup>1</sup> Alternative mitigations represent proposed mitigations beyond the General Plan, excluding designated high capacity intersections, as proposed by the County of Sacramento.									
* dei ** de	notes alternative mitigations that improve operations but do not fully mitigate the impact. enotes alternative mitigations that fully mitigate the impact.									

### Table 3.18

# Existing Plus NewBridge Project Summary of Impacted Freeway Segments

Direction	Location
	Level of Service Impact Not Mitigated
Eastbound	Stockton Boulevard to 59th Street
US-50	Bradshaw Road to Mather Field Road
	Mather Field Road to Bradshaw Road
	Bradshaw Road to Watt Avenue
	Watt Avenue to Howe Avenue
Westbound US-50	Howe Avenue to 65th Street
00.00	65th Street to 59th Street
	59th Street to Stockton Boulevard
	Stockton Boulevard to SR 99 / SR 51
Source: DKS Asso	ciates, 2014.

Table 3.19         Existing Plus NewBridge Project         Summary of Impacted Freeway Ramp Junction/Weaves										
Direction	Location	Junction Type								
	Level of Service Impact Not Mitigated									
Eastbound US-50	Northbound Mather Field Road Slip Entrance Zinfandel Drive Exit	Weave								
Westbound US-50	Sunrise Boulevard Entrance	Lane Addition								
Source: DKS Asso	ciates, 2014.									

# Table 3.20Existing Plus NewBridge Project Functionality Impact Summary



		Segi	nent		
ID	Roadway	From	То		
	Function	ality Impact Fully Mitigate	ed		
15	Douglas Rd	Mather Blvd	Zinfandel Dr		
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd		
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd		
25	Elder Creek Rd	South Watt Ave	Hedge Ave		
26	Elder Creek Rd	Hedge Ave	Mayhew Rd		
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd		
39	Florin Rd	South Watt Ave	Hedge Ave		
40	Florin Rd	Hedge Ave	Mayhew Rd		
41	Florin Rd	Mayhew Rd	Bradshaw Rd		
50	Grant Line Rd	White Rock Rd	Douglas Rd		
58	Happy Ln	Old Placerville Rd	Kiefer Blvd		
70	Jackson Rd	Bradshaw Rd	Excelsior Rd		
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd		
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd		

### 4. EXISTING PLUS FOUR PROJECTS SCENARIO

#### 4.1 **PROJECT DESCRIPTION**

The existing plus FOUR PROJECTS scenario evaluates the effects of the traffic of four developments (FOUR PROJECTS) added to existing conditions. Figure 4.1 illustrates the location of the FOUR PROJECTS:

- West Jackson
- Jackson Township
- NewBridge
- Mather South

The FOUR PROJECTS are located in unincorporated Sacramento County, generally east of the City of Sacramento and south of the community of Rosemont and the City of Rancho Cordova. The FOUR PROJECTS are located both north and south of Jackson Road (SR 16). The FOUR PROJECTS are generally bounded to the west by South Watt Avenue, to the north by the Community of Rosemont and Mather Airport, to the east by Sunrise Boulevard, and to the south by Elder Creek Road and Florin Road.

#### 4.1.1 Land Use

Table 4.1 summarizes the land use assumptions for the FOUR PROJECTS in Jackson Corridor. Together, the FOUR PROJECTS would contain over 30,000 dwelling units and contain enough non-residential land uses to employ over 54,000 workers.

#### 4.1.2 Transportation Network

#### 4.1.2.1 Roadway Segments and Intersections

Figure 4.2 illustrates the FOUR PROJECTS transportation network. The FOUR PROJECTS would widen and / or complete many roadways that cross or border the FOUR PROJECTS sites. The FOUR PROJECTS would improve many intersections within or on the borders of the projects. In addition, the FOUR PROJECTS would include new roadways to serve the proposed land use. The proposed improvements associated with the FOUR PROJECTS are summarized later in Sections 4.2.1 and 4.2.2.

#### 4.1.2.2 Pedestrian and Bicycle Facilities

The roadways within the FOUR PROJECTS would meet County standards, which would provide sidewalks and on-street (Class II) bike lanes on all collector, arterial and thoroughfare roadways. The FOUR PROJECTS also provide several off-street (Class I) multi-purpose trails.



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### FIGURE 4.1 FOUR PROJECTS PROJECT LOCATIONS

# Legend

- Freeways
- Other Major Roadways
- West Jackson Hwy Project
- Jackson Township Project
- NewBridge Project
- Mather South Project
- Cities
  - Mather Airport



Table 4.1: Assumed Land Use for Existing Plus FOUR PROJECTS Scenario										
Project	General Land Use	Acres	Dwelling Units							
West Jackson	Residential	2233.3	13,186							
	Assumed Density Bonus <sup>1</sup>		256							
	Commercial/Mixed Use	383.6	2,464							
	Employment	1100.6								
	Industrial	37.0								
	Schools	150.7								
	Park/Open Space/Ag	1704.6								
	Institutional	23.4								
	Primary Roadways	280.1								
	Subtotal	5913.3	15,906							
Jackson Township	Residential	577.5	6,043							
	Assumed Density Bonus <sup>1</sup>		76							
	Commercial/Mixed Use	96.5	100							
	Office	33.6								
	Pubic/Quasi Public	105.0								
	Park/Open Space/Ag	488.2	545							
	Primary Roadways	90.2								
	Subtotal	1,391.0	6,764							
NewBridge	Residential	369.8	2,915							
	Assumed Density Bonus <sup>1</sup>		113							
	Commercial/Mixed Use	30.9	160							
	Office	14.0								
	Pubic/Quasi Public	12.2								
	Park/Open Space/Ag	618.4	660							
	Primary Roadways	50.0								
	Subtotal	1,095.3	3,848							

Mather South	Residential	379.1	3,537
	Assumed Density Bonus <sup>1</sup>		20
	Commercial	10.0	
	Schools	17.9	
	University <sup>2</sup>	152.9	
	Sports Complex	126.2	
	Park/Open Space/Basins/Landscape	242.6	
	Streets and Utilities	59.0	
	Subtotal	<b>987.</b> 7	3,557
		тт · т	ri D

<sup>1</sup> Reflects estimated potential for additional units that may occur due to County's Housing Incentive Program. <sup>2</sup> An enrollment of 7,500 students was assumed with 3,000 students living on-campus

Source: Project Applicants and Sacramento County, 2013



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### FIGURE 4.2 EXISTING PLUS FOUR PROJECTS ROADWAY NETWORK

### Legend





#### 4.1.2.3 Transit System

As described in Section 2.2, transit service in the vicinity of the FOUR PROJECTS is very limited. The FOUR PROJECTS are designed with significant amounts of higher density and mixed uses to help support transit use but transit service within walking distances of those uses is required to achieve significant transit ridership.

An accurate estimation of transit use requires the definition of specific transit routes and frequency of service on those routes. A separate planning effort, involving staff from Sacramento County and Sacramento Regional Transit (RT), was conducted to define an appropriate transit system for the transportation analysis. That effort is described in Section 3.1.2.3.

The planning effort resulted in four transit lines that would serve the FOUR PROJECTS at a frequency of 15 minutes throughout the typical operating hours (approximately 6 AM to 8 PM) on weekdays. Another key characteristic of the proposed transit system built into the modeling assumptions is the targeted use of queue jumps on portions of key corridors (Bradshaw Road from Kiefer Boulevard to Rock Creek Parkway, and Jackson Road from Watt Avenue to Excelsior Road). Queue jumps ensure that buses are not excessively delayed at signals along congested corridors, and therefore not too heavily penalized from a travel time perspective. This is necessary to achieve the adequate ridership levels that were forecast and ensure reliable operations. Figure 4.3 shows the assumed transit routes for this scenario.

The assumed transit routes, service frequency, and supporting infrastructure (i.e. queue jumps) would be required at full development of the FOUR PROJECTS. The full level of transit service would not achieve adequate transit ridership during the early stages of development. Thus the ultimate transit service, like the roadway system serving the FOUR PROJECTS, must be phased with development of the FOUR PROJECTS.

#### 4.2 TRIP GENERATION

The SACSIM model that has been utilized for the transportation forecasts in this analysis estimated trip generation of the FOUR PROJECTS. Table 4.2 summarizes the person trip generation. The FOUR PROJECTS would generate over 108,000 daily work person trip ends, and over 827,000 daily person trip ends for all trip purposes.

Table 4.3 summarizes the estimated mode choice for the Existing plus FOUR PROJECTS scenario. Over 90 percent of all person trips are expected to be accommodated by automobile. Transit will serve about 1.8 percent of all trips, while walk and bike modes will accommodate about 8.2 percent of all trips. The mode choice assumes full implementation of the project's pedestrian and bicycle systems.

Table 4.4 summarizes the vehicular (auto) trip generation of the FOUR PROJECTS. The FOUR PROJECTS are estimated to generate over 575,000 daily vehicle trip ends. About 47,900 of the daily vehicle trip ends will be associated with trips with both an origin and destination within the individual projects, about 17 percent of the trip ends. The internal trip ends represent about

23,900 daily vehicle trips (one-half the number of internal trip ends). The FOUR PROJECTS will generate about 479,400 external vehicle trips that have an origin or destination inside one of the FOUR PROJECTS but the other end of the trip is outside the project from which it originated. Table 4.4 also shows the vehicle trips generated during the a.m. and p.m. peak hours.

<b>Table 4.2:</b>	Estimated	Daily	Person	Trip	Generation	(Existing	Plus	FOUR	PROJE	CTS
Scenario)		-		_		_				

#### FOUR PROJECTS

=	
Trip Purpose	Daily Person Trip Ends
Work Trips	108,693
Non-Work Trips	718,807
All Trip Purposes	827,500
Source: DKS Associates, 2014.	

#### Table 4.3: Mode Split (Existing Plus FOUR PROJECTS Scenario)

#### FOUR PROJECTS

	Percent	age of Person Trips by 7	<b>Frip Purpose</b>									
Mode	Work Trips	Non-Work Trips	All Trip Purposes									
Auto - SOV	85.2%	50.8%	55.3%									
Auto - HOV	9.8%	38.5%	34.7%									
Transit	2.4%	1.7%	1.8%									
Walk	1.7%	8.2%	7.3%									
Bike	0.8%	0.9%	0.9%									
Source: DKS Associates, 2014.												

 Table 4.4: Estimated Daily Vehicle Trip Generation (Existing Plus FOUR PROJECTS Scenario)

#### FOUR PROJECTS

Т	гір Туре	AM Peak Hour	PM Peak Hour	Daily
Total Ve	chicle Trip Ends	45,948	74,403	575,143
Percent In	ternal Trip Ends <sup>1</sup>	25.2%	32.7%	28.3%
Vehicle Trips	Internal to Projects	5,786	12,175	81,336
	External to Projects	34,375	50,053	412,464
	Total	40,161	62,228	493,799

<sup>1.</sup> Both trip ends within individual projects.

Source: DKS Associates, 2014.

#### 4.3 TRIP DISTRIBUTION

The distribution of trips associated with development of the FOUR PROJECTS was derived utilizing SACSIM, incorporating the proposed land use and access locations associated with the FOUR PROJECTS. Trip distribution varies by land use and time period. Figure 4.4 illustrates the overall trip distribution of daily FOUR PROJECTS trips with the Existing Plus FOUR PROJECTS scenario. The highest percentages of FOUR PROJECTS traffic are accommodated on Jackson Road, Bradshaw Road, Kiefer Boulevard, and Vineyard Road.

#### 4.4 **OPERATIONS ANALYSIS AND IMPACTS**

For purposes of this analysis, full development of the FOUR PROJECTS is assumed to occur "instantaneously." In this manner, the traffic and impacts associated with the FOUR PROJECTS can be directly compared to known and measured conditions. Existing scenario impacts are determined by comparing the traffic operating conditions associated with the FOUR PROJECTS with the traffic operating conditions associated with the existing (without FOUR PROJECTS) conditions, and comparing the change to the thresholds of significance. Figure 4.4 illustrates the resultant traffic operating conditions.

#### 4.4.1 Existing Plus FOUR PROJECTS Roadway Segment Impacts

Table 4.5 summarizes the results of the operations analysis for the study area roadway segments. The table includes the number of lanes assumed with the implementation of the FOUR PROJECTS. The shaded table cells under the "Travel Lanes" and "Facility Type" headings illustrate new roadways or widened roadways. The last column of the table shows the project(s) responsible for the increase in the number of roadway lanes. The shaded table cells under the "Level of Service" heading indicate those locations with an LOS impact.



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# FIGURE 4.3 **PROJECT TRANSIT NETWORK EXISTING PLUS FOUR PROJECTS**

# Legend

Jackson Express Route (JEX)

- Kiefer Jackson Local Route (KJL)
- Rock Creek Parkway Route (RCPK)
  - West Jackson Local Shuttle (WJL)



Cities

Mather Airport





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# Legend

0.1% to 2.5%
 2.6% to 5.0%
 5.1% to 10.0%
 10.0% and up
 Freeways
 Other Major Roadways
 Cities

Mather Airport





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### FIGURE 4.5 EXISTING PLUS FOUR PROJECTS ROADWAY SEGMENT AND INTERSECTION LOS AND IMPACTS

## Legend

### Intersections (AM Peak Hour)

- LOS A-D
- los e
- LOS F

### Intersections (PM Peak Hour)

- LOS A-D
- los e
- LOS F
- Mitigable Intersection Impact
  - Unavoidable Intersection Impact

### **Roadway Segments**

- LOS A-D
- LOS E
- LOS F

### Impacts

- Unavoidable Segment Impact
- IIIII Mitigable Segment Impact



Mather Airport



		Seg	ment			Existing				Existing	; + FOUR PRO			
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
1	Bradshaw Rd	Folsom Blvd	US 50	6	Arterial M	20,592	0.38	А	6	Arterial M	22,070	0.41	А	
2	Bradshaw Rd	US 50	Lincoln Village Dr	6	Arterial M	52,590	0.97	Е	6	Arterial M	81,440	1.51	F	
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd	6	Arterial M	42,787	0.79	С	6	Arterial M	76,070	1.41	F	
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd	6	Arterial M	38,984	0.72	С	6	Arterial M	69,070	1.28	F	
5.1	Bradshaw Rd	Goethe Rd	Collector WJ-8	4	Arterial M	28,651	0.80	С	4	Arterial M	57,700	1.60	F	
5.2	Bradshaw Rd	Collector WJ-8	Kiefer Blvd	4	Arterial M	28,651	0.80	С	5	Arterial M	56,380	1.57	F	West Jackson
6.1	Bradshaw Rd	Kiefer Blvd	Collector WJ-9	4	Arterial M	30,726	0.85	D	5	Arterial M	57,960	1.61	F	West Jackson
6.2	Bradshaw Rd	Collector WJ-9	Mayhew Rd	4	Arterial M	30,726	0.85	D	5	Arterial M	54,630	1.52	F	West Jackson
6.3	Bradshaw Rd	Mayhew Rd	Jackson Rd	4	Arterial M	30,726	0.85	D	6	Arterial M	30,220	0.56	А	West Jackson
7.1	Bradshaw Rd	Jackson Rd	Rock Creek Pkwy	4	Arterial M	22,871	0.64	В	6	Arterial M	29,960	0.55	А	West Jackson
7.2	Bradshaw Rd	Rock Creek Pkwy	Collector WJ-10	4	Arterial M	22,871	0.64	В	6	Arterial M	32,920	0.61	В	West Jackson
7.3	Bradshaw Rd	Collector WJ-10	Collector WJ-11	4	Arterial M	22,871	0.64	В	6	Arterial M	28,070	0.52	А	West Jackson
7.4	Bradshaw Rd	Collector WJ-11	Elder Creek Rd	4	Arterial M	22,871	0.64	В	6	Arterial M	25,630	0.47	А	West Jackson
8	Bradshaw Rd	Elder Creek Rd	Florin Rd	4	Arterial M	22,265	0.62	В	4	Arterial M	32,530	0.90	Е	
9	Bradshaw Rd	Florin Rd	Gerber Rd	4	Arterial M	22,883	0.64	В	4	Arterial M	34,060	0.95	Е	
10	Bradshaw Rd	Gerber Rd	Calvine Rd	4	Arterial M	16,984	0.47	А	4	Arterial M	25,950	0.72	С	
11	Calvine Rd	Waterman Rd	Bradshaw Rd	4	Arterial M	16,015	0.44	А	4	Arterial M	22,340	0.62	В	
12	Calvine Rd	Bradshaw Rd	Vineyard Rd	4	Arterial M	12,395	0.34	А	4	Arterial M	13,090	0.36	А	
13	Calvine Rd	Vineyard Rd	Excelsior Rd	2	Arterial M	6,036	0.34	А	2	Arterial M	6,750	0.38	А	
14	Chrysanthy Blvd	Sunrise Blvd	Rancho Cordova Pkwy	4	Arterial M	3,411	0.09	А	4	Arterial M	5,080	0.14	А	
15	Douglas Rd	Mather Blvd	Zinfandel Dr	2	Arterial M	6,635	0.37	А	2	Arterial M	12,160	0.68	В	
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	2	Arterial M	8,369	0.46	А	2	Arterial M	11,450	0.64	В	
17	Douglas Rd	Sunrise Blvd	Rancho Cordova Pkwy	5	Arterial M	3,674	0.10	А	5	Arterial M	5,050	0.14	А	
18	Douglas Rd	Rancho Cordova Pkwy	Grant Line Rd	2	Arterial M	3,674	0.20	А	2	Arterial M	5,030	0.28	А	
19.1	Eagles Nest Rd	Kiefer Blvd	N Bridgewater Dr	2	Arterial M	740	0.04	А	4	Arterial M	10,600	0.29	А	NewBridge
19.2	Eagles Nest Rd	N Bridgewater Dr	S Bridgewater Dr	2	Arterial M	740	0.04	А	4	Arterial M	10,810	0.30	А	NewBridge
19.3	Eagles Nest Rd	S Bridgewater Dr	Jackson Rd	2	Arterial M	740	0.04	А	4	Arterial M	12,100	0.34	А	NewBridge
20	Eagles Nest Rd	Jackson Rd	Florin Rd	2	Arterial M	517	0.03	А	2	Arterial M	8250	0.46	А	
21	Eagles Nest Rd	Florin Rd	Grant Line Rd	2	Arterial M	189	0.01	А	2	Arterial M	4100	0.23	А	
22	Elder Creek Rd	65th St	Power Inn Rd	4	Arterial M	17,891	0.50	А	4	Arterial M	23,620	0.66	В	
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd	2	Arterial M	15,734	0.87	D	2	Arterial M	23,530	1.31	F	
24	Elder Creek Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	11,092	0.62	В	2	Arterial M	19,020	1.06	F	
25	Elder Creek Rd	South Watt Ave	Hedge Ave	2	Arterial M	5,576	0.31	А	2	Arterial M	26,320	1.46	F	



		Seg	nent			Existing			Existing + FOUR PROJECTS					
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	2	Arterial M	5,797	0.32	А	2	Arterial M	25,670	1.43	F	
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	2	Arterial M	5,355	0.30	А	3	Arterial M	15,260	0.85	D	West Jackson
28.1	Elder Creek Rd	Bradshaw Rd	Vineyard Rd	2	Arterial M	2,158	0.12	А	3	Arterial M	23,810	1.32	F	West Jackson
28.2	Elder Creek Rd	Vineyard Rd	Excelsior Rd	2	Arterial M	2,158	0.12	А	4	Arterial M	21,510	0.60	А	West Jackson
29	Elk Grove-Florin Rd	Florin Rd	Gerber Rd	2	Arterial M	22,960	1.28	F	2	Arterial M	24,830	1.38	F	
30.1	Excelsior Rd	Kiefer Blvd	Douglas Rd	2	Arterial M	3,716	0.21	А	2	Arterial M	8,450	0.47	А	
30.2	Excelsior Rd	Douglas Rd	Collector WJ-1/ Collector JT-1	2	Arterial M	3,716	0.21	А	4	Arterial M	25,010	0.69	В	West Jackson; Jackson Township
30.3	Excelsior Rd	Collector WJ-1/ Collector JT-1	Collector WJ-2/ Collector JT-2	2	Arterial M	3,716	0.21	А	4	Arterial M	22,510	0.63	В	West Jackson; Jackson Township
30.4	Excelsior Rd	Collector WJ-2/ Collector JT-2	Jackson Rd	2	Arterial M	3,716	0.21	А	4	Arterial M	23,640	0.66	В	West Jackson; Jackson Township
31.1	Excelsior Rd	Jackson Rd	Collector WJ-6	2	Arterial M	5,075	0.28	А	3	Arterial M	30,640	1.70	F	West Jackson
31.2	Excelsior Rd	Collector WJ-6	Elder Creek Rd	2	Arterial M	5,075	0.28	А	3	Arterial M	30,490	1.69	F	West Jackson
32	Excelsior Rd	Elder Creek Rd	Florin Rd	2	Arterial M	4,203	0.23	А	3	Arterial M	11,610	0.65	В	West Jackson
33	Excelsior Rd	Florin Rd	Gerber Rd	2	Arterial M	5,423	0.30	А	2	Arterial M	14,730	0.82	D	
34	Excelsior Rd	Gerber Rd	Calvine Rd	2	Arterial M	4,229	0.23	А	2	Arterial M	11,350	0.63	В	
35	Excelsior Rd	Calvine Rd	Sheldon Rd	2	Arterial M	4,473	0.25	А	2	Arterial M	9,470	0.53	А	
36	Florin Rd	Stockton Blvd	Power Inn Rd	4	Arterial M	27,495	0.76	С	4	Arterial M	33,040	0.92	E	
37	Florin Rd	Power Inn Rd	Florin-Perkins Rd	4	Arterial M	21,595	0.60	А	4	Arterial M	32,750	0.91	E	
38	Florin Rd	Florin-Perkins Rd	So Watt Ave/ Elk Grove Florin Rd	4	Arterial M	14,163	0.39	А	4	Arterial M	26,450	0.73	С	
39	Florin Rd	South Watt Ave	Hedge Ave	2	Arterial M	7,718	0.43	А	2	Arterial M	18,340	1.02	F	
40	Florin Rd	Hedge Ave	Mayhew Rd	2	Arterial M	6,312	0.35	А	2	Arterial M	14,890	0.83	D	
41	Florin Rd	Mayhew Rd	Bradshaw Rd	2	Arterial M	6,317	0.35	А	2	Arterial M	15,190	0.84	D	
42.1	Florin Rd	Bradshaw Rd	Vineyard Rd	2	Arterial M	3,478	0.19	А	2	Arterial M	17,150	0.95	Е	
42.2	Florin Rd	Vineyard Rd	Excelsior Rd	2	Arterial M	3,478	0.19	А	3	Arterial M	17,530	0.97	Е	West Jackson
43	Florin Rd	Excelsior Rd	Sunrise Blvd	2	Arterial M	3,835	0.21	А	2	Arterial M	8,750	0.49	А	
44	Folsom Blvd	Howe Ave	Jackson Rd	4	Arterial M	37,516	1.04	F	4	Arterial M	55,810	1.55	F	
45	Fruitridge Rd	65th St	Power Inn Rd	4	Arterial M	16,634	0.46	А	4	Arterial M	24,410	0.68	В	



		Seg	ment			Existing				Existing	; + FOUR PRO	JECTS		
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
46	Fruitridge Rd	Power Inn Rd	Florin Perkins Rd	4	Arterial M	15,214	0.42	А	4	Arterial M	31,140	0.87	D	
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	10,280	0.57	А	2	Arterial M	24,650	1.37	F	
48	Fruitridge Rd	South Watt Ave	Hedge Ave	2	Arterial M	2,890	0.16	А	3	Arterial M	17,250	0.96	E	West Jackson
49.1	Fruitridge Rd	Hedge Ave	Collector WJ-12	2	Arterial M	1,790	0.10	А	4	Arterial M	20,530	0.57	А	West Jackson
49.2	Fruitridge Rd	Collector WJ-12	Mayhew Rd	2	Arterial M	1,790	0.10	А	4	Arterial M	20,950	0.58	А	West Jackson
50	Grant Line Rd	White Rock Rd	Douglas Rd	2	Rural NS	7,189	0.42	D	2	Rural NS	8,980	0.53	D	
51	Grant Line Rd	Douglas Rd	Kiefer Blvd	2	Rural S	6,143	0.31	С	2	Rural S	8,100	0.41	D	
52	Grant Line Rd	Kiefer Blvd	Jackson Rd	2	Rural S	5,758	0.29	С	2	Rural S	7,430	0.37	D	
53	Grant Line Rd	Jackson Rd	Sunrise Blvd	2	Rural S	14,720	0.74	Е	2	Rural S	13,430	0.67	Е	
54	Grant Line Rd	Sunrise Blvd	Calvine Rd	2	Rural S	14,812	0.74	Е	2	Rural S	19,270	0.96	Е	
55	Grant Line Rd	Calvine Rd	Sheldon Rd	2	Rural S	13,140	0.66	Е	2	Rural S	16,650	0.83	E	
56	Grant Line Rd	Sheldon Rd	Wilton Rd	2	Rural S	17,459	0.87	Е	2	Rural S	24,280	1.21	F	
57	Grant Line Rd	Wilton Rd	Bond Rd	2	Rural S	16,064	0.80	Е	2	Rural S	21,350	1.07	F	
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	2	Rural S	4,635	0.23	С	4	Arterial M	26,210	0.73	С	West Jackson
59.1	Hedge Ave	Jackson Rd	Rock Creek Pkwy	2	Arterial M	3,061	0.17	А	2	Arterial M	8,750	0.49	А	
59.2	Hedge Ave	Rock Creek Pkwy	Fruitridge Rd	2	Arterial M	3,061	0.17	А	2	Arterial M	3,490	0.19	А	
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	2	Arterial M	3,737	0.21	А	2	Arterial M	3,780	0.21	А	
61	Hedge Ave	Elder Creek Rd	Florin Rd	2	Arterial M	2,722	0.15	А	2	Arterial M	4,250	0.24	А	
62	Howe Ave	US 50	Folsom Blvd	6	Arterial M	53,849	1.00	Е	6	Arterial M	62,720	1.16	F	
63	International Dr	Mather Field Rd	Zinfandel Dr	6	Arterial M	17,500	0.32	А	6	Arterial M	19,580	0.36	А	
64	International Dr	Zinfandel Dr	Sunrise Blvd	6	Arterial M	8,802	0.16	А	6	Arterial M	8,430	0.16	А	
65	Jackson Rd	Folsom Blvd	Florin Perkins Rd	2	Arterial M	12,358	0.69	В	2	Arterial M	34,200	1.90	F	
66	Jackson Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	10,414	0.58	А	2	Arterial M	40,370	2.24	F	
67	Jackson Rd	South Watt Ave	Hedge Ave	2	Arterial M	17,060	0.95	Е	4	Arterial M	61,300	1.70	F	West Jackson
68.1	Jackson Rd	Hedge Ave	Collector WJ-3	2	Arterial M	12,616	0.70	С	4	Arterial M	54,090	1.50	F	West Jackson
68.2	Jackson Rd	Collector WJ-3	Mayhew Rd	2	Arterial M	12,616	0.70	С	4	Arterial M	55,200	1.53	F	West Jackson
69	Jackson Rd	Mayhew Rd	Bradshaw Rd	2	Arterial M	14,996	0.83	D	6	Arterial M	55,630	1.03	F	West Jackson
70.1	Jackson Rd	Bradshaw Rd	Collector WJ-4	2	Arterial M	13,030	0.72	С	6	Arterial M	51,570	0.96	Е	West Jackson
70.2	Jackson Rd	Collector WJ-4	Happy Ln	2	Arterial M	13,030	0.72	С	6	Arterial M	49,600	0.92	Е	West Jackson
70.3	Jackson Rd	Happy Ln	Rock Creek Pkwy	2	Arterial M	13,030	0.72	C	6	Arterial M	43,260	0.80	D	West Jackson
70.4	Jackson Rd	Rock Creek Pkwy	Collector WJ-5	2	Arterial M	13,030	0.72	C	6	Arterial M	43,830	0.81	D	West Jackson



		Seg	ment			Existing			Existing + FOUR PROJECTS					
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
70.5	Jackson Rd	Collector WJ-5	Collector WJ-6	2	Arterial M	13,030	0.72	С	6	Arterial M	34,770	0.64	В	West Jackson
70.6	Jackson Rd	Collector WJ-6	Excelsior Rd	2	Arterial M	13,030	0.72	С	6	Arterial M	34,630	0.64	В	West Jackson
71.1	Jackson Rd	Excelsior Rd	Collector JT-3	2	Rural Hwy	10,478	0.46	D	4	Arterial M	47,230	1.31	F	Jackson Township
71.2	Jackson Rd	Collector JT-3	Tree View Ln	2	Rural Hwy	10,478	0.46	D	4	Arterial M	33,970	0.94	Е	Jackson Township
71.3	Jackson Rd	Tree View Ln	Collector JT-4	2	Rural Hwy	10,478	0.46	D	4	Arterial M	27,230	0.76	С	Jackson Township
71.4	Jackson Rd	Collector JT-4	Eagles Nest Rd	2	Rural Hwy	10,478	0.46	D	4	Arterial M	23,800	0.66	В	Jackson Township
72.1	Jackson Rd	Eagles Nest Rd	Rockbridge Dr	2	Rural Hwy	9,976	0.44	D	4	Arterial M	19,810	0.55	А	NewBridge
72.2	Jackson Rd	Rockbridge Dr	Sunrise Blvd	2	Rural Hwy	9,976	0.44	D	4	Arterial M	18,090	0.50	А	NewBridge
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	2	Rural Hwy	13,306	0.58	D	2	Rural Hwy	17,790	0.78	E	
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	2	Arterial M	4,616	0.26	А	2	Arterial M	6,900	0.38	А	
75	Kiefer Blvd	South Watt Ave	Mayhew Rd	4	Arterial M	18,668	0.52	А	4	Arterial M	29,770	0.83	D	
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd	4	Arterial M	9,274	0.26	А	4	Arterial M	42,990	1.19	F	
77.1	Kiefer Blvd	Bradshaw Rd	Collector WJ-14	2	Arterial M	4,618	0.26	А	6	Arterial M	49,480	0.92	Е	West Jackson
77.2	Kiefer Blvd	Collector WJ-14	Happy Ln	2	Arterial M	4,618	0.26	А	6	Arterial M	40,350	0.75	С	West Jackson
78.1	Kiefer Blvd	Eagles Nest Rd	W Collector MS-1	2	Arterial M	656	0.04	А	4	Arterial M	14380	0.40	А	NewBridge; Mather South
78.2	Kiefer Blvd	W Collector MS-1	Northbridge Dr	2	Arterial M	656	0.04	А	4	Arterial M	7750	0.22	А	NewBridge; Mather South
78.3	Kiefer Blvd	Northbridge Dr	E Collector MS-1	2	Arterial M	656	0.04	А	4	Arterial M	8260	0.23	А	NewBridge; Mather South
78.4	Kiefer Blvd	E Collector MS-1	Sunrise Blvd	2	Arterial M	656	0.04	А	3	Arterial M	12540	0.70	В	NewBridge
79	Kiefer Blvd	Sunrise Blvd	Rancho Cordova Pkwy	2	Arterial M	2,786	0.15	А	2	Arterial M	2,800	0.16	А	
80	Mather Blvd / Norden Ave	Von Karman St	Bleckely St	4	Arterial M	4,373	0.12	А	4	Arterial M	3,990	0.11	A	
81	Mather Blvd	Bleckely St	Femoyer St	4	Arterial M	4,373	0.12	А	4	Arterial M	3,990	0.11	А	
82	Mather Blvd	Femoyer St	Douglas Rd	2	Arterial M	4,373	0.24	А	2	Arterial M	4,030	0.22	А	
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd	2	Res Collector F	6,751	0.84	Е	2	Res Collector F	16,410	2.05	F	
84	Mather Field Rd	US 50	Rockingham Dr	6	Arterial M	37,755	0.70	В	6	Arterial M	37,730	0.70	В	
85	Mather Field Rd	Rockingham Dr	International Dr	6	Arterial M	37,520	0.69	В	6	Arterial M	40,040	0.74	С	
86	Mather Field Rd	International Dr	Peter A McCuen Blvd	4	Arterial M	14,857	0.41	А	4	Arterial M	14,260	0.40	Α	
87	Mayhew Rd	Folsom Blvd	Goethe Rd	2	Arterial M	6,977	0.39	А	2	Arterial M	14,970	0.83	D	
88	Mayhew Rd	Goethe Rd	Kiefer Blvd	2	Arterial L	6,593	0.44	А	2	Arterial L	12,470	0.83	D	



		Seg	ment	Existing						Existing	+ FOUR PRO			
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
89.1	Mayhew Rd	Jackson Rd	Rock Creek Pkwy	2	Arterial L	1,616	0.11	А	4	Arterial M	36,540	1.02	F	West Jackson
89.2	Mayhew Rd	Rock Creek Pkwy	Fruitridge Rd	2	Arterial L	1,616	0.11	А	4	Arterial M	33,610	0.93	Е	West Jackson
90	Old Placerville Rd	Bradshaw Rd	Granby Dr	4	Arterial M	15,800	0.44	А	4	Arterial M	15,330	0.43	А	
91	Old Placerville Rd	Granby Dr	Happy Ln	2	Arterial M	13,573	0.75	С	2	Arterial M	12,220	0.68	В	
92	Old Placerville Rd	Happy Ln	Routier Rd	2	Arterial M	10,710	0.60	А	2	Arterial M	24,000	1.33	F	
93	Old Placerville Rd	Routier Rd	Rockingham Dr	4	Arterial M	10,710	0.30	А	4	Arterial M	19,670	0.55	А	
94	Power Inn Rd	Folsom Blvd	14th Ave	6	Arterial M	36,175	0.67	В	6	Arterial M	35,470	0.66	В	
95	Rockingham Dr	Old Placerville Rd	Mather Field Rd	4	Arterial M	19,881	0.55	А	4	Arterial M	24,960	0.69	В	
96	South Watt Ave	Folsom Blvd	Kiefer Blvd	6	Arterial M	40,920	0.76	С	6	Arterial M	69,720	1.29	F	
97	South Watt Ave	Kiefer Blvd	Jackson Rd	5	Arterial M	32,415	0.90	Е	5	Arterial M	51,440	1.43	F	
98.1	South Watt Ave	Jackson Rd	Rock Creek Pkwy	2	Arterial M	25,832	1.44	F	4	Arterial M	33,140	0.92	Е	West Jackson
98.2	South Watt Ave	Rock Creek Pkwy	Fruitridge Rd	2	Arterial M	25,832	1.44	F	4	Arterial M	33,690	0.94	Е	West Jackson
99	South Watt Ave	Fruitridge Rd	Elder Creek Rd	2	Arterial M	21,567	1.20	F	2	Arterial M	26,290	1.46	F	
100	South Watt Ave	Elder Creek Rd	Florin Rd	2	Arterial M	19,069	1.06	F	2	Arterial M	25,530	1.42	F	
101	Sunrise Blvd	US 50	Folsom Blvd	7	Arterial M	54,500	1.01	F	7	Arterial M	53,560	0.99	Е	
102	Sunrise Blvd	Folsom Blvd	Trade Center Dr	6	Arterial M	49,500	0.92	Ε	6	Arterial M	50,280	0.93	Е	
103	Sunrise Blvd	Trade Center Dr	White Rock Rd	6	Arterial M	34,571	0.64	В	6	Arterial M	38,230	0.71	С	
104.1	Sunrise Blvd	White Rock Rd	International Dr	6	Arterial M	25,811	0.48	А	6	Arterial M	30,130	0.56	А	
104.2	Sunrise Blvd	International Dr	Future Rio Del Oro Pkwy	6	Arterial M	28,400	0.53	А	6	Arterial M	33,840	0.63	В	
104.3	Sunrise Blvd	Future Rio Del Oro Pkwy	Douglas Rd	6	Arterial M	25,811	0.48	А	6	Arterial M	33,940	0.63	В	
105	Sunrise Blvd	Douglas Rd	Kiefer Blvd	5	Arterial M	21,878	0.61	В	5	Arterial M	25,790	0.72	С	
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd	2	Arterial M	16,894	0.94	Ε	2	Arterial M	20,060	1.11	F	
107	Sunrise Blvd	Jackson Rd	Florin Rd	2	Rural S	11,181	0.56	D	2	Rural S	14,580	0.73	E	
108	Sunrise Blvd	Florin Rd	Grant Line Rd	2	Rural S	7,752	0.39	D	2	Rural S	10,620	0.53	D	
109	Vineyard Rd	Gerber Rd	Calvine Rd	2	Arterial M	5,515	0.31	А	2	Arterial M	5,610	0.31	А	
110	Watt Ave	US 50	Folsom Blvd	6	Arterial H	65,242	1.09	F	6	Arterial H	80,700	1.35	F	
111	White Rock Rd	International Rd	Quality Dr	2	Arterial M	3,962	0.22	А	2	Arterial M	3,730	0.21	А	
112	White Rock Rd	Quality Dr	Zinfandel Dr	4	Arterial M	11,200	0.31	А	4	Arterial M	9,710	0.27	А	
113	White Rock Rd	Zinfandel Dr	Kilgore Rd	6	Arterial M	14,756	0.27	А	6	Arterial M	14,730	0.27	А	
114	White Rock Rd	Kilgore Rd	Sunrise Blvd	5	Arterial M	14,756	0.41	A	5	Arterial M	15,290	0.42	А	
115	White Rock Rd	Sunrise Blvd	Fitzgerald Rd	4	Arterial M	15,433	0.43	Α	4	Arterial M	14,910	0.41	А	
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	2	Rural NS	2,490	0.15	В	2	Rural NS	1,870	0.11	В	



		Seg	ment	Existing     Existing + FOUR PROJECTS										
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
117	White Rock Rd	Grant Line Rd	Prairie City Rd	4	Arterial M	9,400	0.26	А	4	Arterial M	10,640	0.30	А	
118	Zinfandel Dr	US 50	White Rock Rd	7	Arterial M	45,228	0.84	D	7	Arterial M	51,560	0.95	E	
119	Zinfandel Dr	White Rock Rd	International Rd	6	Arterial M	17,923	0.33	А	6	Arterial M	28,420	0.53	А	
120	Zinfandel Dr	International Rd	Baroque Dr	6	Arterial M	7,595	0.14	А	6	Arterial M	26,100	0.48	А	
121	Zinfandel Dr	Baroque Dr	City Limit	4	Arterial M	7,595	0.21	А	4	Arterial M	26,100	0.73	С	
122	Zinfandel Dr	City Limit	Douglas Rd	2	Arterial M	7,595	0.42	А	2	Arterial M	26,100	1.45	F	
123.1	Zinfandel Dr	Douglas Rd	Collector MS-2	2	Arterial M	2,848	0.16	А	2	Arterial M	23,220	1.29	F	
123.2	Zinfandel Dr	Collector MS-2	Collector MS-3						4	Arterial M	18,200	0.51	А	Mather South
123.3	Zinfandel Dr	Collector MS-3	Collector MS-4						4	Arterial M	16,750	0.47	А	Mather South
123.4	Zinfandel Dr	Collector MS-4	Kiefer Blvd						4	Arterial M	17,400	0.48	А	Mather South
200	Kiefer Blvd	Tree View Ln	Eagles Nest Rd						2	Arterial M	22,920	1.27	F	West Jackson; Jackson Township; NewBridge; Mather South
300	Douglas Rd	Excelsior Rd	Rock Creek Pkwy						4	Arterial M	20010	0.56	А	West Jackson
301	Douglas Rd	Rock Creek Pkwy	Kiefer Blvd						4	Arterial M	24070	0.67	В	West Jackson
302	Happy Ln	Kiefer Blvd	Mayhew Rd						4	Arterial M	26490	0.74	С	West Jackson
303	Happy Ln	Mayhew Rd	Jackson Rd						4	Arterial M	29360	0.82	D	West Jackson
304	Happy Ln	Jackson Rd	Rock Creek Pkwy						4	Arterial M	31020	0.86	D	West Jackson
305	Kiefer Blvd	Happy Ln	Collector WJ-15						6	Arterial M	49800	0.92	E	West Jackson
306	Kiefer Blvd	Collector WJ-15	Douglas Rd						6	Arterial M	44940	0.83	D	West Jackson
307	Kiefer Blvd	Douglas Rd	Excelsior Rd						4	Arterial M	28810	0.80	D	West Jackson
308	Mayhew Rd	Happy Ln	Bradshaw Rd						4	Arterial M	32960	0.92	Е	West Jackson
309	Mayhew Rd	Bradshaw Rd	Jackson Rd						4	Arterial M	30900	0.86	D	West Jackson
310	Mayhew Rd	Fruitridge Rd	Collector WJ-13						4	Arterial M	14460	0.40	А	West Jackson
311	Mayhew Rd	Collector WJ-13	Elder Creek Rd						3	Arterial M	13190	0.73	С	West Jackson
312	Rock Creek Pkwy	South Watt Ave	Hedge Ave						2	Arterial M	4590	0.26	А	West Jackson
313	Rock Creek Pkwy	Hedge Ave	Mayhew Rd						2	Arterial M	8700	0.48	А	West Jackson
314	Rock Creek Pkwy	Mayhew Rd	Bradshaw Rd						2	Arterial M	7270	0.40	А	West Jackson
315	Rock Creek Pkwy	Bradshaw Rd	Collector WJ-7						2	Arterial M	9520	0.53	А	West Jackson
316	Rock Creek Pkwy	Collector WJ-7	Happy Ln/ Vineyard Rd						2	Arterial M	9720	0.54	А	West Jackson
317	Rock Creek Pkwy	Happy Ln/ Vineyard Rd	Jackson Rd						2	Arterial M	10200	0.57	А	West Jackson
318	Rock Creek Pkwy	Jackson Rd	Excelsior Rd						2	Arterial M	10110	0.56	Α	West Jackson



		Seg	ment	Existing				Existing + FOUR PROJECTS						
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
319	Vineyard Rd	Rock Creek Pkwy	Elder Creek Rd						4	Arterial M	32370	0.90	D	West Jackson
320	Vineyard Rd	Elder Creek Rd	Florin Rd						4	Arterial M	13110	0.36	А	West Jackson
321	Collector WJ-16	Rock Creek Pkwy	Collector WJ-6						2	Res Collector F	570	0.07	А	West Jackson
322	Collector WJ-17	Rock Creek Pkwy	Collector WJ-6						2	Res Collector F	1140	0.14	А	West Jackson
323	Collector WJ-6	Collector WJ-16/WJ-17	Jackson Rd						2	Res Collector F	3160	0.40	В	West Jackson
324	Collector WJ-6	Jackson Rd	Excelsior Rd						2	Res Collector F	3230	0.40	С	West Jackson
325	Collector WJ-2	Excelsior Rd	Collector WJ-6						2	Arterial M	3470	0.19	А	West Jackson
326	Collector WJ-18	Vineyard Rd	Collector WJ-19/ WJ-20						2	Arterial M	2830	0.16	А	West Jackson
327	Collector WJ-19	Collector WJ-18	Collector WJ-21						2	Arterial M	1250	0.07	А	West Jackson
328	Collector WJ-20	Collector WJ-18	Collector WJ-21						2	Res Collector F	2830	0.35	В	West Jackson
329	Collector WJ-21	Collector WJ-19/ WJ-20	Collector WJ-6						2	Res Collector F	2180	0.27	В	West Jackson
400	Collector JT-1	Excelsior Rd	Collector JT-3						2	Res Collector F	3,680	0.46	C	Jackson Township
401	Collector JT-1	Collector JT-3	Tree View Ln						2	Res Collector F	1,200	0.15	А	Jackson Township
402	Collector JT-3	Kiefer Blvd	Collector JT-1						2	Res Collector F	1,980	0.25	В	Jackson Township
403	Collector JT-3	Collector JT-1	Collector JT-6						2	Res Collector F	1,590	0.20	А	Jackson Township
404	Collector JT-3	Collector JT-6	Collector JT-5						2	Res Collector F	2,560	0.32	В	Jackson Township
405	Collector JT-3	Collector JT-5	Jackson Rd						2	Res Collector F	16,550	2.07	F	Jackson Township
406	Collector JT-4	Jackson Rd	Bridgewater Dr						2	Arterial M	2,900	0.16	А	Jackson Township
407	Collector JT-5	Collector JT-3	Tree View Ln						2	Arterial M	8,250	0.46	А	Jackson Township
408	Collector JT-6	Excelsior Rd	Collector JT-3						2	Res Collector F	3,820	0.48	C	Jackson Township



		Seg	ment	Existing		Existing + FOUR PROJECTS								
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
409	Collector JT-6	Collector JT-3	Tree View Ln						2	Res Collector F	640	0.08	А	Jackson Township
410	Kiefer Blvd	Excelsior Rd	Tree View Ln						4	Arterial M	23,190	0.64	В	Jackson Township
411	Tree View Ln	Kiefer Blvd	Collector JT-1						4	Arterial M	9,700	0.27	А	Jackson Township
412	Tree View Ln	Collector JT-1	Collector JT-6						4	Arterial M	9,610	0.27	А	Jackson Township
413	Tree View Ln	Collector JT-6	Collector JT-5						4	Arterial M	9,550	0.27	А	Jackson Township
414	Tree View Ln	Collector JT-5	Jackson Rd						4	Arterial M	5,790	0.16	А	Jackson Township
415	Collector JT-7	Collector JT-3	Tree View Ln						2	Arterial M	1,500	0.08	А	Jackson Township
416	Collector JT-8	Collector JT-3	Tree View Ln						2	Arterial M	1,740	0.10	А	Jackson Township
417	Collector JT-9	Jackson Rd	Collector JT-8						2	Arterial M	4,200	0.23	А	Jackson Township
418	Collector JT-10	Jackson Rd	Collector JT-8						2	Arterial M	1,450	0.08	А	Jackson Township
419	Collector JT-6	Tree View Ln	Jackson Rd						2	Res Collector F	1,940	0.24	В	Jackson Township
500	S Bridgewater Dr	Collector JT-4	Eagles Nest Rd						2	Res Collector F	3,380	0.42	С	NewBridge
501	S Bridgewater Dr	Eagles Nest Rd	Northbridge Dr						2	Res Collector F	4,390	0.55	С	NewBridge
502	N Bridgewater Dr	Northbridge Dr	Eagles Nest Rd						2	Res Collector F	1,180	0.15	А	NewBridge
503	Northbridge Dr	Kiefer Blvd	Bridgewater Dr						2	Arterial M	2,770	0.15	А	NewBridge
504	Street A	S Bridgewater Dr	Street B						2	Res Collector F	1,410	0.18	А	NewBridge
505	Street B	S Bridgewater Dr	Street A						2	Res Collector F	1,260	0.16	А	NewBridge
506	Rockbridge Dr	Street B	Stonebridge Dr						2	Res Collector F	1,570	0.20	А	NewBridge
507	Rockbridge Dr	Stonebridge Dr	Jackson Rd						2	Arterial M	5,660	0.31	А	NewBridge
508	Stonebridge Dr	S Bridgewater Dr	Rockbridge Dr						2	Arterial M	2,630	0.15	А	NewBridge
509	Stonebridge Dr	Rockbridge Dr	Jackson Rd						2	Res Collector F	3,210	0.40	С	NewBridge
600	W Collector MS-1	Kiefer Blvd	Collector MS-5						2	Arterial M	5,950	0.33	А	Mather South
601	E Collector MS-1	Collector MS-5	Kiefer Blvd						2	Arterial M	5,540	0.31	А	Mather South
602	Collector MS-2	Eagles Nest Rd	Collector MS-5						2	Res Collector F	9,200	1.15	F	Mather South



		Segi	ment			Existing				Existing	+ FOUR PRO	JECTS		
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Daily Volume	Volume / Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
603	Collector MS-3	Eagles Nest Rd	Collector MS-5						2	Arterial M	4,800	0.27	А	Mather South
604	Collector MS-4	Eagles Nest Rd	Collector MS-5						2	Arterial M	10,170	0.57	А	Mather South
605	Collector MS-5	Collector MS-1	Collector MS-4						2	Arterial M	11,480	0.64	В	Mather South
606	Collector MS-5	Collector MS-4	Collector MS-3						2	Arterial M	3,080	0.17	А	Mather South
607	Collector MS-5	Collector MS-3	Collector MS-2						2	Arterial M	1,580	0.09	А	Mather South

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage



#### 4.4.2 Existing Plus FOUR PROJECTS Intersection Impacts

Tables 4.6 and 4.7 summarize the results of the operations analysis for the study area intersections. The tables include the implementation of intersection changes associated with the FOUR PROJECTS. Table 4.7 illustrates the type of traffic control and number of lanes by type on each study area intersection approach. Shaded table cells indicate those locations where changes in traffic control and / or number of approach lanes by type would be fully funded by the project(s) shown in the last column. Shaded table cells in Table 4.6 illustrate those locations with an LOS impact. Detailed analysis information is included in the technical appendix.

Signal warrant analysis was conducted for all unsignalized intersections along Jackson Road, and other unsignalized intersections in close proximity to the project. The project is considered to have a significant impact at an unsignalized location if both the impact criteria in Table 1.6 are met, and one or more of the signal warrants specified in the California Manual on Uniform Traffic Control Devices (CAMUTCD) are met. Detailed signal warrant calculation sheets are included in the technical appendix. The following unsignalized intersections exhibit significant impacts and meet one or more traffic signal warrants:

- Happy Lane and Old Placerville Road
- Eagles Nest Road and Florin Road

#### 4.4.3 Existing Plus FOUR PROJECTS U.S. 50 Freeway Impacts

#### 4.4.3.1 Freeway Mainline

Table 4.8 summarizes a.m. and p.m. peak hour US 50 freeway mainline operations. Details of the analysis are included in the technical appendix. The following locations exhibit significant impacts:

- Eastbound US 50
  - Stockton Boulevard to 59th Street a.m. and p.m. peak hours
  - Bradshaw Road to Mather Field Road a.m. peak hour
  - Zinfandel Drive to Hazel Avenue p.m. peak hour
- Westbound US 50
  - Mather Field Road to Bradshaw Road a.m. peak hour
  - Watt Avenue to Howe Avenue p.m. peak hour
  - Howe Avenue to 59th Street a.m. and p.m. peak hours
  - 59th Street to SR 99 / SR 51 p.m. peak hour

#### 4.4.3.2 Freeway Ramp Junctions / Weaving

Table 4.9 summarizes a.m. and p.m. peak hour freeway operations at ramp junctions and weaving areas. Details of the analysis are included in the technical appendix. The following locations exhibit significant impacts:

- Eastbound
  - 65th Street to Howe Avenue weave a.m. peak hour
  - Mather Field Road to Zinfandel Drive weave a.m. peak hour
- Westbound
  - Sunrise Boulevard Entrance a.m. peak hour

#### 4.4.3.3 Freeway Ramp Intersection Queuing

Table 4.10 summarizes a.m. and p.m. peak hour freeway ramp intersection queuing. The following location exhibits a significant impact:

- Eastbound
  - Exit ramp to Howe Avenue right turn queue length exceeds available storage

## Table 1.6

Table 4.0																	
Existing Plus FOUR PROJECTS Intersection Levels of Service AM Peak Hour									PM Peak Hour								
Intersection	Existing			Existing Plus FOUR PROJECTS				Existing			Existing Plus FOUR PROJECTS						
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact			
1 Howe Avenue & College Town Drive/US 50 WB Ramps	Signal	D	36.6	Signal	D	36.8	No	Signal	D	44.4	Signal	D	49.4	No			
2 Howe Avenue & US 50 EB Ramps	Signal	В	16.9	Signal	С	34.5	No	Signal	С	20.5	Signal	С	21.3	No			
3 Power Inn Road/Howe Avenue & Folsom Blvd	Signal	D	39.1	Signal	E	72.1	No	Signal	D	55.0	Signal	Е	78.9	No			
4 Power Inn Road & 14th Avenue	Signal	С	31.5	Signal	С	32.4	No	Signal	D	39.6	Signal	D	39.6	No			
5 Power Inn Road & Fruitridge Road	Signal	D	43.4	Signal	D	54.0	No	Signal	С	33.5	Signal	D	41.9	No			
6 Jackson Road/Notre Dame Dr. & Folsom Blvd.	Signal	D	36.8	Signal	E	63.3	No	Signal	С	32.1	Signal	F	95.2	Yes			
7 Florin Perkins Road/Julliard Dr. & Folsom Boulevard	Signal	D	39.0	Signal	D	43.3	No	Signal	Е	55.6	Signal	D	44.8	No			
8 Florin Perkins Road & Kiefer Blvd.	Two-way stop	А	2.8	Two-way stop	А	4.3	No	Two-way stop	А	3.2	Two-way stop	А	7.3	No			
Westbound Left Turn		С	20.1		D	32.2			С	23.3		F	56.8				
Westbound Right Turn		В	13.3		В	12.3			В	12.6		С	17.3				
Southbound Left Turn		А	10.0		В	10.1			В	10.9		В	13.9				
9 Florin Perkins Road & Jackson Road	Signal	D	51.5	Signal	F	123.3	Yes	Signal	D	54.1	Signal	F	146.7	Yes			
10 Florin Perkins Road & Fruitridge Road	Signal	С	25.1	Signal	Е	59.8	No	Signal	С	25.4	Signal	Е	55.3	No			
11 Florin Perkins Road & Elder Creek Road	Signal	С	25.7	Signal	С	35.0	No	Signal	С	26.2	Signal	С	33.4	No			
12 Watt Avenue & Folsom Blvd.	Signal	Е	66.2	Signal	Е	79.1	No	Signal	Е	71.9	Signal	F	90.4	Yes			
13 S. Watt Ave. & Reith Ct/Manlove Road	Signal	В	19.6	Signal	С	23.2	No	Signal	D	54.1	Signal	D	40.2	No			
14 S. Watt Avenue & Kiefer Blvd.	Signal	Е	56.0	Signal	F	138.5	Yes	Signal	Е	75.9	Signal	F	136.6	Yes			

## Table 1.6

Existing Plus FOUR PROJECTS Intersection Levels of Service																
	AM Peak Hour								PM Peak Hour							
Intersection	Existing			Existing Plus FOUR PROJECTS				Existing			Existing Plus FOUR PROJECTS					
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact		
15 S. Watt Avenue & Canberra Dr.	Signal	В	11.5	Signal	В	19.9	No	Signal	А	9.7	Signal	С	24.1	No		
16 S. Watt Avenue & Jackson Road	Signal	Е	62.5	Signal	F	404.2	Yes	Signal	Е	66.4	Signal	F	385.0	Yes		
17 S. Watt Avenue & Fruitridge Road	Signal	D	38.1	Signal	F	114.0	Yes	Signal	D	41.7	Signal	E	68.4	Yes		
18 S. Watt Avenue & Elder Creek Road	Signal	E	62.7	Signal	F	177.5	Yes	Signal	E	68.8	Signal	F	189.3	Yes		
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	D	54.7	Signal	Е	74.3	No	Signal	D	51.8	Signal	Е	72.3	No		
21 Elk Grove Florin Road & Gerber Road	Signal	D	49.1	Signal	D	51.6	No	Signal	Е	64.6	Signal	Е	73.5	No		
23 Hedge Avenue & Jackson Road	Signal	D	35.1	Signal	F	155.7	Yes	Signal	D	37.3	Signal	Е	68.6	No		
24 Hedge Avenue & Fruitridge Road	All-way stop	В	13.6	Signal	D	52.1	No	All-way stop	А	9.4	Signal	D	47.8	No		
25 Hedge Avenue & Elder Creek Road	All-way stop	С	15.9	Signal	D	39.1	No	All-way stop	В	11.6	Signal	Е	58.5	No		
26 Hedge Avenue & Tokay Lane	Two-way stop	А	0.4	Two-way stop	А	0.3	No	Two-way stop	А	0.2	Two-way stop	А	0.1	No		
Northbound Left Turn		А	0.0		А	0.0			А	0.0		А	0.0			
Southbound Left Turn		А	8.0		А	8.6			А	7.3		Α	7.5			
Eastbound		В	12.2		В	14.8			В	10.2		В	13.2			
Westbound		В	11.1		В	13.2			A	9.6		В	11.5			
27 Hedge Avenue & Florin Road	All-way stop	В	12.9	All-way stop	Е	43.2	No	All-way stop	В	11.1	All-way stop	F	59.5	Yes		
28 Mayhew Road & Kiefer Boulevard	Signal	D	48.6	Signal	F	130.1	Yes	Signal	D	51.1	Signal	E	76.6	No		

## Table 1.6

Existing Plus FOUR PROJECTS Intersection Levels of Service																	
		AM Peak Hour	PM Peak Hour														
Intersection	Existing			Existing Plus FOUR PROJECTS				Existing			Existing Plus FOUR PROJECTS						
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact			
29 Mayhew Road & Jackson Road	Two-way stop	А	1.8	Signal	Е	69.8	No	Two-way stop	А	1.9	Signal	Е	60.5	No			
Northbound Through - Left Turn		D	27.6						D	34.0							
Northbound Right Turn		В	11.8						С	15.0							
Southbound		С	18.3						С	24.9							
Eastbound Left Turn		A	8.9						A	8.4							
Westbound Left Turn		A	8.3						A	9.3							
30 Mayhew Road & Fruitridge Road	Two-way stop	А	6.2	Signal	Е	67.8	No	Two-way stop	А	5.1	Signal	В	17.2	No			
Northbound Left Turn		Α	0.0						А	7.4							
Eastbound		А	9.2						А	9.2							
31 Mayhew Road & Elder Creek Road	Two-way stop	А	0.2	Signal	F	355.5	Yes	Two-way stop	А	0.3	Signal	F	353.8	Yes			
Northbound		В	11.9						В	10.9							
Southbound		В	11.1						А	9.8							
Eastbound Left Turn		А	8.3						А	7.6							
Westbound Left Turn		А	7.5						А	0.0							
32 Woodring Drive & Zinfandel Drive	Two-way stop	А	5.9	Two-way stop	А	2.6	No	Two-way stop	А	3.0	Two-way stop	А	1.4	No			
Eastbound		А	9.3		Е	36.4			А	9.3		D	28.8				
Northbound Left Turn		А	0.0		А	9.8			А	0.0		В	10.4				
33 Bradshaw Road & Folsom Blvd.	Signal	Е	56.7	Signal	D	35.8	No	Signal	D	49.9	Signal	D	53.2	No			
34 Bradshaw Road & US 50 WB Ramps	Signal	В	15.9	Signal	В	19.8	No	Signal	В	15.2	Signal	В	19.2	No			
35 Bradshaw Road & US 50 EB Ramps	Signal	С	24.4	Signal	D	39.6	No	Signal	В	16.0	Signal	С	26.2	No			
36 Bradshaw Road & Old Placerville Road	Signal	D	45.9	Signal	D	48.7	No	Signal	D	52.0	Signal	E	60.9	Yes			
37 Bradshaw Road & Kiefer Boulevard	Signal	D	45.7	Signal	F	129.2	Yes	Signal	E	66.2	Signal	F	153.2	Yes			
# Table 46

l able 4.6														
Existing Plus FOUR PROJECTS Intersection Levels of Service														
				AM Peak Hour			1				PM Peak Hour			
Intersection	I	Existing		Existing Plus	s FOUR PF	ROJECTS			Existing		Existing Plus	s FOUR PF	ROJECTS	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
38 Bradshaw Road & Jackson Road	Signal	Е	73.1	Signal	Е	59.6	No	Signal	E	59.4	Signal	Е	74.3	No
39 Bradshaw Road & Elder Creek Road	Signal	D	36.8	Signal	F	136.6	Yes	Signal	D	36.1	Signal	Е	73.2	No
40 Bradshaw Road & Florin Road	Signal	D	38.1	Signal	F	126.9	Yes	Signal	D	53.6	Signal	Е	70.6	No
41 Bradshaw Road & Gerber Road	Signal	Е	72.2	Signal	F	82.8	Yes	Signal	D	49.9	Signal	Е	69.3	No
42 Happy Lane & Old Placerville Road	Two-way stop	А	7.3	Two-way stop	С	15.4	Yes	Two-way stop	A	4.7	Two-way stop	F	>300	Yes
Northbound Left Turn		F	64.8		F	>300			F	95.9		F	>300	
Northbound Right Turn		D	30.6		F	>300			С	15.4		F	211.4	
Westbound Left Turn		В	10.2		E	41.3			В	10.1		С	20.5	
43 Happy Lane & Kiefer Boulevard	F	Free Turn		Signal	D	45.7	No	F	Free Turn		Signal	Е	72.4	No
44 Excelsior Road & Kiefer Boulevard	West Jackso P	n/Jackson roject Int.	Township	Signal	E	67.8	No	West Jackso P	n/Jackson Project Int.	Township	Signal	E	55.5	No
45 Excelsior Road & Jackson Road	Signal	D	36.7	Signal	F	210.6	Yes	Signal	D	40.3	Signal	F	165.8	Yes
46 Excelsior Road & Elder Creek Road	Two-way stop	А	3.5	Signal	С	34.1	No	Two-way stop	А	2.7	Signal	F	81.3	Yes
Northbound Left Turn		Α	7.5						Α	8.0				
Eastbound		С	18.6						В	12.3				
47 Excelsior Road & Florin Road	All-way stop	С	24.9	Signal	E	62.8	No	All-way stop	В	12.5	Signal	E	65.1	No
48 Excelsior Road & Gerber Road/Birch Ranch Drive	All-way stop	В	14.0	All-way stop	E	46.6	No	All-way stop	В	10.6	All-way stop	Е	41.3	No
49 Mather Field Road & US 50 WB Ramps	Signal	С	24.7	Signal	С	24.1	No	Signal	А	9.4	Signal	А	9.5	No
50 Mather Field Road & US 50 EB Ramps	Signal	С	27.7	Signal	С	28.9	No	Signal	В	13.4	Signal	В	12.7	No

l able 4.6														
Existing Plus FOUR PROJECTS Intersection Levels of Service	_													
				AM Peak Hour							PM Peak Hour			
Intersection	E	Existing		Existing Plus	s FOUR PI	ROJECTS			Existing		Existing Plu	s FOUR PR	OJECTS	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
51 Mather Field Road & Rockingham Drive	Signal	Е	56.4	Signal	F	85.9	Yes	Signal	D	54.7	Signal	D	54.9	No
52 Mather Boulevard & Douglas Road	All-way stop	Е	39.3	All-way stop	F	57.0	Yes	All-way stop	С	15.5	All-way stop	Е	43.4	No
53 Zinfandel Drive & US 50 WB Ramps	Signal	В	16.4	Signal	С	24.8	No	Signal	D	51.7	Signal	D	42.5	No
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	D	40.0	Signal	E	62.8	Yes	Signal	E	60.1	Signal	Е	64.2	No
55 Zinfandel Drive & White Rock Road	Signal	D	47.7	Signal	D	52.6	No	Signal	D	54.7	Signal	D	54.8	No
56 Zinfandel Drive & Data Drive	Signal	D	49.3	Signal	D	45.5	No	Signal	D	52.9	Signal	D	53.9	No
57 Zinfandel Drive & International Dr	Signal	С	34.0	Signal	D	52.1	No	Signal	D	48.5	Signal	D	37.8	No
58 Zinfandel Drive & Douglas Road	Signal	Е	55.5	Signal	Е	80.0	No	Signal	D	54.2	Signal	E	75.6	No
59 Eagles Nest Road/Zinfandel Drive & Kiefer Boulevard	F	ree Turn		Signal	С	32.2	No	F	ree Turn		Signal	С	26.0	No
60 Eagles Nest Road & Jackson Road	Two-way stop	А	2.3	Signal	D	36.5	No	Two-way stop	А	3.6	Signal	С	34.5	No
Northbound		С	22.0						С	23.8				
Southbound		В	13.9						С	22.0				
Eastbound Left Turn		А	8.8						А	7.9				
Westbound Left Turn		А	7.9						А	8.7				
61 Eagles Nest Road & Florin Road	Two-way stop	А	2.3	Two-way stop	F	71.8	Yes	Two-way stop	А	2.6	Two-way stop	F	100.0	Yes
Northbound		В	12.7		F	287.6			В	12.1		F	>300	
Southbound		В	10.0		F	>300			В	10.5		F	242.6	
Eastbound Left Turn		A	7.7		A	8.4			А	7.7		A	8.2	
Westbound Left Turn		А	0.0		Α	0.0			А	7.6		Α	7.8	

			AM Peak Hour							PM Peak Hour			
	Existing		Existing Plu	IS FOUR PI	ROJECTS			Existing		Existing Plu	IS FOUR PF	ROJECTS	
Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
Signal	D	44.7	Signal	D	50.5	No	Signal	В	19.7	Signal	С	26.7	No
Signal	В	16.9	Signal	В	17.9	No	Signal	В	17.6	Signal	В	19.1	No
Signal	D	54.4	Signal	D	46.6	No	Signal	D	48.6	Signal	D	48.0	No
Signal	D	47.8	Signal	D	48.2	No	Signal	D	51.6	Signal	D	52.2	No
Signal	D	47.8	Signal	D	47.8	No	Signal	D	45.8	Signal	D	48.3	No
Signal	D	51.7	Signal	D	53.7	No	Signal	D	46.5	Signal	D	48.1	No
Signal	С	27.0	Signal	С	26.4	No	Signal	С	21.0	Signal	С	22.1	No
Signal	D	53.6	Signal	D	45.4	No	Signal	С	27.0	Signal	С	34.7	No
Signal	E	57.0	Signal	F	120.5	Yes	Signal	D	47.2	Signal	E	79.2	No
Signal	В	11.3	Signal	В	13.5	No	Signal	D	48.3	Signal	E	69.5	No
Signal	D	43.2	Signal	D	53.2	No	Signal	D	40.7	Signal	D	42.6	No
Signal	С	31.2	Signal	С	32.3	No	Signal	D	41.4	Signal	D	35.8	No
Signal	С	20.6	Signal	С	22.1	No	Signal	С	29.9	Signal	D	48.0	No
Signal	D	51.7	Signal	D	52.0	No	Signal	D	46.7	Signal	D	47.7	No
Signal	В	19.2	Signal	В	19.5	No	Signal	В	15.0	Signal	В	14.2	No
	Control Signal Signal Signal Signal Signal Signal Signal Signal Signal Signal Signal Signal Signal Signal Signal Signal Signal	ExistingControlInt LOSSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalCSignalDSignalDSignalCSignalDSignalCSignalCSignalCSignalCSignalCSignalDSignalDSignalCSignalDSignalDSignalCSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalDSignalD	ExistingControlInt LOSDelay (sec)SignalD44.7SignalB16.9SignalD54.4SignalD47.8SignalD47.8SignalD51.7SignalC27.0SignalE57.0SignalB11.3SignalB11.3SignalC31.2SignalC20.6SignalD51.7SignalC20.6SignalB19.2	All Peak HourControlInt LOSDelay (sec)ControlSignalD44.7SignalSignalB16.9SignalSignalD54.4SignalSignalD47.8SignalSignalD47.8SignalSignalD51.7SignalSignalD53.6SignalSignalD53.6SignalSignalB11.3SignalSignalD43.2SignalSignalC31.2SignalSignalD51.7SignalSignalB11.3SignalSignalD43.2SignalSignalC31.2SignalSignalD51.7SignalSignalB19.2Signal	HourExistingControlInt LOSDelay (sec)ControlInt LOSSignalD44.7SignalDSignalB16.9SignalBSignalD54.4SignalDSignalD47.8SignalDSignalD47.8SignalDSignalD47.8SignalDSignalD51.7SignalDSignalC27.0SignalCSignalB11.3SignalDSignalB11.3SignalBSignalC31.2SignalCSignalC20.6SignalCSignalB19.2SignalD	AM Peak HourExisting Plus FOUR PRUSECTSControlInt LOSDelay (sec)ControlInt LOSDelay (sec)SignalD44.7SignalD50.5SignalB16.9SignalB17.9SignalD54.4SignalD46.6SignalD47.8SignalD48.2SignalD47.8SignalD47.8SignalD51.7SignalD45.4SignalC27.0SignalD45.4SignalD53.6SignalD45.4SignalD53.6SignalD45.4SignalB11.3SignalB13.5SignalB11.3SignalB13.5SignalD43.2SignalD53.2SignalC20.6SignalC22.1SignalD51.7SignalD53.2SignalD43.2SignalD53.2SignalD51.7SignalD53.2SignalD51.7SignalD53.2SignalD51.7SignalD53.2SignalD51.7SignalD52.0SignalB19.2SignalB19.5	HM Peak HourExisting Plus FOUR PRJECTSLoS ImpactControlInt LOSDelay (sec)ControlInt LOSDelay (sec)Cos ImpactSignalD44.7SignalD50.5NoSignalB16.9SignalB17.9NoSignalD54.4SignalD46.6NoSignalD47.8SignalD48.2NoSignalD47.8SignalD47.8NoSignalD51.7SignalD53.7NoSignalC27.0SignalD45.4NoSignalD53.6SignalD45.4NoSignalB11.3SignalB13.5NoSignalB11.3SignalB13.5NoSignalC31.2SignalC32.3NoSignalC20.6SignalC22.1NoSignalD51.7SignalD52.0NoSignalC20.6SignalC22.1NoSignalB19.2SignalB19.5No	M Peak HourExisting Plus FOUR PROJECTSLOS ImpactControlInt LOSDelay (sec)ControlInt LOSDelay (sec)ControlSignalD44.7SignalD50.5NoSignalSignalB16.9SignalB17.9NoSignalSignalD54.4SignalD46.6NoSignalSignalD47.8SignalD48.2NoSignalSignalD47.8SignalD47.8NoSignalSignalD51.7SignalD47.8NoSignalSignalC27.0SignalD45.4NoSignalSignalC27.0SignalD45.4NoSignalSignalC27.0SignalD45.4NoSignalSignalD53.6SignalD45.4NoSignalSignalB11.3SignalB13.5NoSignalSignalC31.2SignalC32.3NoSignalSignalC20.6SignalC22.1NoSignalSignalC20.6SignalC22.1NoSignalSignalC20.6SignalC32.3NoSignalSignalC20.6SignalC32.4NoSign	AM Peak HourPeak	M Peak HourInt Existing Pius FOUR PROJECTS Existing Pius FOUR PROJECTS ControlInt Delay LOSInt Delay LOSInt Delay LOSInt Delay LOSInt Delay LOSInt Delay LOSInt 	M Peak Hour         PM Peak Hour         PM Peak Hour           Existing Plus FOUR PROJECTS         LOS Impact [sec]         Control         Los         PExisting Plu           Control         Int LOS         Delay (sec)         Control         Delay (sec)         Control           Signal         B         16.9         Signal         B         17.9         No         Signal         B         17.6         Signal           Signal         D         54.4         Signal         D         46.6         No         Signal         D         45.8         Signal           Signal         D         47.8         Signal         D         47.8         Signal         D         45.9         Signal           Signal         D         51.7         Signal	M Peak Hour         PROJECTS         PM Peak Hour         PM Peak Hour           Los lint         Delay         Control         Int         Peak Hour         Existing Plus FOUR PROJECTS           Signal         D         44.7         Signal         D         50.5         No         Signal         B         19.7         Signal         C           Signal         D         44.7         Signal         D         50.5         No         Signal         B         19.7         Signal         C           Signal         D         44.7         Signal         D         46.6         No         Signal         D         48.6         Signal         D           Signal         D         47.8         Signal         D         47.8         No         Signal         D         45.8         Signal         D           Signal         D         47.8         Signal         D         47.8         No         Signal         D         45.8         Signal         D           Signal         D         47.8         Signal         D         47.8         No         Signal         D         45.6	Image: Im

Table 4.6														
Existing Plus FOUR PROJECTS Intersection Levels of Service				AM Peak Hour							PM Peak Hour			
Interpotion		Existing		Existing Plu	s FOUR PI	ROJECTS			Existing		Existing Plu	s FOUR PF	OJECTS	
Intersection	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
77 Grant Line Road & White Rock Road	Signal	В	10.9	Signal	В	10.6	No	Signal	В	11.2	Signal	В	10.5	No
78 Grant Line Road & Douglas Road	All-way stop	С	15.2	All-way stop	D	28.8	No	All-way stop	В	12.3	All-way stop	С	17.9	No
79 Grant Line Road & Kiefer Boulevard	All-way stop	В	11.4	All-way stop	В	14.1	No	All-way stop	В	10.5	All-way stop	В	13.5	No
80 Grant Line Road & Jackson Road	Signal	E	74.0	Signal	F	113.0	Yes	Signal	E	78.9	Signal	F	80.2	No
81 Watt Avenue & US-50 EB Ramps	Signal	В	13.0	Signal	В	18.2	No	Signal	В	14.9	Signal	В	14.5	No
82 Watt Avenue & US-50 WB Ramps	Signal	С	32.9	Signal	С	32.0	No	Signal	С	28.6	Signal	С	32.0	No
83 Mayhew Rd & Folsom Blvd.	Signal	В	19.8	Signal	С	27.9	No	Signal	С	20.1	Signal	С	22.5	No
84 65th Street Expy & Fruitridge Road	Signal	С	31.2	Signal	D	50.5	No	Signal	D	35.3	Signal	D	40.0	No
85 Power Inn Road & Elder Creek Road	Signal	D	35.2	Signal	D	51.7	No	Signal	D	36.3	Signal	D	50.8	No
86 Power Inn Road & Florin Rd	Signal	D	36.3	Signal	E	76.2	No	Signal	D	45.9	Signal	E	71.7	No
87 Florin Perkins Road & Florin Rd	Signal	D	36.7	Signal	D	52.7	No	Signal	С	32.5	Signal	E	65.9	No
88 Bradshaw Rd & Calvine Rd	Signal	С	30.5	Signal	D	51.4	No	Signal	D	36.9	Signal	D	51.3	No
89 Vineyard Rd & Calvine Rd	Signal	С	30.8	Signal	С	30.3	No	Signal	С	34.9	Signal	D	35.5	No
90 Excelsior Road & Calvine Rd	All-way stop	С	16.6	All-way stop	F	55.1	Yes	All-way stop	В	13.0	All-way stop	Е	43.2	Yes
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	D	51.7	Signal	Е	58.7	No	Signal	D	46.5	Signal	Е	62.9	No

# Table 46

| Ius FOUR PROJECTS Intersection Levels of Service |   |  |  
  | AM Peak Hour  |  
   |   
   |  |  |   | | | |
  | PM Peak Hour  |            |                |            |  |  |   
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---|------------|----------------|------------|--|--|---
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Intersection	
  | Existing Plu  | IS FOUR PI   
   | ROJECTS   
   |  |  | Existing  | | | |
  | Existing Plu  | is FOUR PF | ROJECTS        |            |  |  |   
           |   |   |   
  |  |
| Intersection                                     | Control   | Int<br>LOS   | Delay<br>(sec)   
  | Control   | Int<br>LOS   
   | Delay<br>(sec)  
   | LOS Impact   | Control  | Int<br>LOS  | Delay<br>(sec)  
  | Control   | Int<br>LOS | Delay<br>(sec) | LOS Impact |  |  |   
           |   |   |   
  |  |
| Line Rd & Calvine Rd                             | Signal  | С  | 21.4   
  | Signal  | С  
   | 28.1  
   | No   | Signal   | С   | 24.0  
  | Signal  | D          | 37.0           | No         |  |  |   
           |   |   |   
  |  |
| Line Rd & Dwy/Wilton Rd                          | Signal  | E  | 65.9   
  | Signal  | F  
   | 94.6  
   | Yes  | Signal   | E   | 64.8  
  | Signal  | F          | 104.4          | Yes        |  |  |   
           |   |   |   
  |  |
| Line Rd & Bond Rd/Wrangler Dr                    | Signal  | с  | 33.3   
  | Signal  | D  
   | 50.3  
   | No   | Signal   | D   | 46.4  
  | Signal  | D          | 40.2           | No         |  |  |   
           |   |   |   
  |  |
| sior Road & Collector WJ-1/Collector JT-1        | West Jackso<br>F  | on/Jackson<br>Project Int.   | Township   
  | Signal  | D  
   | 51.1  
   | No   | West Jacks   | on/Jackson<br>Project Int.  | Township  
  | Signal  | D          | 40.3           | No         |  |  |   
           |   |   |   
  |  |
| sior Road & Collector WJ-2/Collector JT-2        | West Jackson/Jackson Township<br>Project Int.   |  |  
  | Signal  | D  
   | 46.2  
   | No   | West Jacks   | on/Jackson<br>Project Int.  | Township  
  | Signal  | D          | 43.1           | No         |  |  |   
           |   |   |   
  |  |
| llector MS-1 & Kiefer Boulevard                  | Mather  | Mather South Project Int.  |  
  |   | В  
   | 19.2  
   | No   | Mather   | South Proje   | ect Int.  
  | Signal  | В          | 18.3           | No         |  |  |   
           |   |   |   
  |  |
| bridge Dr & Kiefer Boulevard                     | NewBr   | NewBridge Project Int.   |  
  |   | с  
   | 20.7  
   | No   | NewB   | ridge Projec  | t Int.  
  | Signal  | В          | 19.2           | No         |  |  |   
           |   |   |   
  |  |
| lector MS-1 & Kiefer Boulevard                   | Mather  | South Proje  | ct Int.  
  | Signal  | В  
   | 12.3  
   | No   | Mather   | South Proje   | ect Int.  
  | Signal  | В          | 16.2           | No         |  |  |   
           |   |   |   
  |  |
| ctor WJ-3 & Jackson Road                         | West Ja   | ckson Proje  | ect Int.   
  | Signal  | D  
   | 42.7  
   | No   | West Ja  | ickson Proje  | ect Int.  
  | Signal  | с          | 30.5           | No         |  |  |   
           |   |   |   
  |  |
| ctor WJ-4 & Jackson Road                         | West Ja   | ckson Proje  | ect Int.   
  | Signal  | D  
   | 39.5  
   | No   | West Ja  | ickson Proje  | ect Int.  
  | Signal  | D          | 38.4           | No         |  |  |   
           |   |   |   
  |  |
| y Lane & Jackson Road                            | West Ja   | ckson Proje  | ect Int.   
  | Signal  | E  
   | 59.3  
   | No   | West Ja  | ickson Proje  | ect Int.  
  | Signal  | D          | 44.9           | No         |  |  |   
           |   |   |   
  |  |
| Creek Pkwy & Jackson Road                        | West Ja   | ckson Proje  | ect Int.   
  | Signal  | D  
   | 36.2  
   | No   | West Ja  | ickson Proje  | ect Int.  
  | Signal  | с          | 33.1           | No         |  |  |   
           |   |   |   
  |  |
| ctor WJ-5 & Jackson Road                         | West Jackson Project Int.   |  |  
  | Signal  | С  
   | 32.9  
   | No   | West Ja  | ickson Proje  | ect Int.  
  | Signal  | с          | 30.6           | No         |  |  |   
           |   |   |   
  |  |
| ctor WJ-6 & Jackson Road                         | West Ja   | ckson Proje  | ect Int.   
  | Signal  | с  
   | 29.2  
   | No   | West Ja  | ickson Proje  | ect Int.  
  | Signal  | с          | 27.1           | No         |  |  |   
           |   |   |   
  |  |
| sior Road & Collector WJ-6                       | West Ja   | ckson Proje  | ect Int.   
  | Signal  | С  
   | 22.4  
   | No   | West Ja  | ickson Proje  | ect Int.  
  | Signal  | D          | 50.9           | No         |  |  |   
           |   |   |   
  |  |
|  | Intersection         Line Rd & Calvine Rd         Line Rd & Dwy/Wilton Rd         Line Rd & Bond Rd/Wrangler Dr         sior Road & Collector WJ-1/Collector JT-1         sior Road & Collector WJ-2/Collector JT-2         lector MS-1 & Kiefer Boulevard         oridge Dr & Kiefer Boulevard         ector MS-1 & Kiefer Boulevard         ector MS-1 & Kiefer Boulevard         ector WJ-3 & Jackson Road         etor WJ-4 & Jackson Road         creek Pkwy & Jackson Road         etor WJ-5 & Jackson Road         etor WJ-6 & Jackson Road         stor WJ-6 & Jackson Road | Intersection         Control           Line Rd & Calvine Rd         Signal           Line Rd & Dwy/Wilton Rd         Signal           Line Rd & Dowd/Wilton Rd         Signal           Line Rd & Bond Rd/Wrangler Dr         Signal           sior Road & Collector WJ-1/Collector JT-1         West Jackson           sior Road & Collector WJ-2/Collector JT-2         West Jackson           pridge Dr & Kiefer Boulevard         Mather           pridge Dr & Kiefer Boulevard         West Jackson           tor WJ-3 & Jackson Road         West Jackson           tor WJ-5 & Jackson Road         West Jackson           tor WJ-5 & Jackson Road         West Jackson           tor WJ-6 & Jackson Road         West Jackson           stor WJ-6 & Jackson Road         West Jackson | Intersection Levels of Service           Intersection           Signal         C           Intersection           Intersection           Intersection           Intersection           Intersection           Intersection           Intersection           Intersection <td>Intersection Levels of Service           Intersection Intersection Review Re</td> <td>Intersection Levels of Service           AM Peak Hour           Intersection Levels of Service           Intersection         Existing PL           Intersection         Control           Line Rd &amp; Calvine Rd         Signal         C         21.4         Signal           Line Rd &amp; Calvine Rd         Signal         C         21.4         Signal           Line Rd &amp; Dowy/Wilton Rd         Signal         C         33.3         Signal           Line Rd &amp; Bond Rd/Wrangler Dr         Signal         C         33.3         Signal           sior Road &amp; Collector WJ-1/Collector JT-1         West Jackson/Jackson Township<br/>Project Int.         Signal         Signal           sior Road &amp; Collector WJ-2/Collector JT-2         West Jackson/Lackson Township<br/>Project Int.         Signal           lector MS-1 &amp; Kiefer Boulevard         Mather South Project Int.         Signal           oridge Dr &amp; Kiefer Boulevard         Mether South Project Int.         Signal           tor WJ-3 &amp; Jackson Road         West Jackson Project Int.         Signal           r Lane &amp; Jackson Road         West Jackson Project Int.         Signal           r Lane &amp; Jackson Road         West Jackson Project Int.         Signal           tor WJ-5 &amp; Jackson Road         West Jackson Project I</td> <td>Juse FOUR PROJECTS Intersection Levels of Service           Jutersection           Linersection           Line Rd &amp; Calvine Rd         Signal         C         Control         Line Rd &amp; Calvine Rd         Signal         C         2         Signal         C         Control         Intersection           Line Rd &amp; Calvine Rd         Signal         C         2         Signal         C         Control         Line Rd &amp; Bond Rd/Wrangler Dr         Signal         C         3         3         Signal         D           sior Road &amp; Collector WJ-1/Collector JT-1         West Jackson/Jackson Twmship<br/>Project Int         Signal         D<!--</td--><td>Jus FOUR PROJECTS Intersection Levels of Service           AM Peak Hour           Existing         Existing PIUS FOUR PROJECTS           Existing PIUS FOUR PROJECTS           Control         Int         Delay<br/>(sec)         Control         Int<br/>LOS         Signal         C         21.4         Signal         C         28.1           Line Rd &amp; Calvine Rd         Signal         C         31.3         Signal         C         28.1           Line Rd &amp; Bond Rd/Wrangler Dr         Signal         C         33.3         Signal         D         50.3           sior Road &amp; Collector WJ-1/Collector JT-1         West Jackson/Jackson Township<br/>Project Int.         Signal         D         51.1           sior Road &amp; Collector WJ-2/Collector JT-2         West Jackson/Jackson Township<br/>Project Int.         Signal         D         46.2           lector MS-1 &amp; Kiefer Boulevard         Mather South Project Int.         Signal         D         46.2           orldge Dr &amp; Kiefer Boulevard         Mest Jackson Project Int.         Signal         B         19.2           tor WJ-3 &amp; Jackson Road         West Jackson Project Int.         Signal         D         42.7           tare &amp; Jackson Road         West Jackson Project Int.         Signal</td><td>Intersection Levels of Service           Intersection           Intersection           Intersection           Intersection           Intersection         Interse</td><td>Just FOUR PROJECTS Intersection Levels of Service         Just FOUR PROJECTS Intersection Levels of Service         Just FOUR PROJECTS Intersection Levels of Service         Just Four FOUR PROJECTS         Just Four FOUR PROJECTS         Service Ser</td><td>All Peak Hour         Vertex Hour         <th <="" colspan="6" td=""><td>Intersection Levels of Service           Intersection Levels of Service</td><td>Intersection Levels of Service         VI          VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI          VI         VI         VI         VI         VI         VI               <th co<="" td=""><td>Junct results of Statute s</td><td>Algebra based based based by a part of the property of the</td></th></td></th></td></td> | Intersection Levels of Service           Intersection Intersection Review Re | Intersection Levels of Service           AM Peak Hour           Intersection Levels of Service           Intersection         Existing PL           Intersection         Control           Line Rd & Calvine Rd         Signal         C         21.4         Signal           Line Rd & Calvine Rd         Signal         C         21.4         Signal           Line Rd & Dowy/Wilton Rd         Signal         C         33.3         Signal           Line Rd & Bond Rd/Wrangler Dr         Signal         C         33.3         Signal           sior Road & Collector WJ-1/Collector JT-1         West Jackson/Jackson Township<br>Project Int.         Signal         Signal           sior Road & Collector WJ-2/Collector JT-2         West Jackson/Lackson Township<br>Project Int.         Signal           lector MS-1 & Kiefer Boulevard         Mather South Project Int.         Signal           oridge Dr & Kiefer Boulevard         Mether South Project Int.         Signal           tor WJ-3 & Jackson Road         West Jackson Project Int.         Signal           r Lane & Jackson Road         West Jackson Project Int.         Signal           r Lane & Jackson Road         West Jackson Project Int.         Signal           tor WJ-5 & Jackson Road         West Jackson Project I | Juse FOUR PROJECTS Intersection Levels of Service           Jutersection           Linersection           Line Rd & Calvine Rd         Signal         C         Control         Line Rd & Calvine Rd         Signal         C         2         Signal         C         Control         Intersection           Line Rd & Calvine Rd         Signal         C         2         Signal         C         Control         Line Rd & Bond Rd/Wrangler Dr         Signal         C         3         3         Signal         D           sior Road & Collector WJ-1/Collector JT-1         West Jackson/Jackson Twmship<br>Project Int         Signal         D </td <td>Jus FOUR PROJECTS Intersection Levels of Service           AM Peak Hour           Existing         Existing PIUS FOUR PROJECTS           Existing PIUS FOUR PROJECTS           Control         Int         Delay<br/>(sec)         Control         Int<br/>LOS         Signal         C         21.4         Signal         C         28.1           Line Rd &amp; Calvine Rd         Signal         C         31.3         Signal         C         28.1           Line Rd &amp; Bond Rd/Wrangler Dr         Signal         C         33.3         Signal         D         50.3           sior Road &amp; Collector WJ-1/Collector JT-1         West Jackson/Jackson Township<br/>Project Int.         Signal         D         51.1           sior Road &amp; Collector WJ-2/Collector JT-2         West Jackson/Jackson Township<br/>Project Int.         Signal         D         46.2           lector MS-1 &amp; Kiefer Boulevard         Mather South Project Int.         Signal         D         46.2           orldge Dr &amp; Kiefer Boulevard         Mest Jackson Project Int.         Signal         B         19.2           tor WJ-3 &amp; Jackson Road         West Jackson Project Int.         Signal         D         42.7           tare &amp; Jackson Road         West Jackson Project Int.         Signal</td> <td>Intersection Levels of Service           Intersection           Intersection           Intersection           Intersection           Intersection         Interse</td> <td>Just FOUR PROJECTS Intersection Levels of Service         Just FOUR PROJECTS Intersection Levels of Service         Just FOUR PROJECTS Intersection Levels of Service         Just Four FOUR PROJECTS         Just Four FOUR PROJECTS         Service Ser</td> <td>All Peak Hour         Vertex Hour         <th <="" colspan="6" td=""><td>Intersection Levels of Service           Intersection Levels of Service</td><td>Intersection Levels of Service         VI          VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI          VI         VI         VI         VI         VI         VI               <th co<="" td=""><td>Junct results of Statute s</td><td>Algebra based based based by a part of the property of the</td></th></td></th></td> | Jus FOUR PROJECTS Intersection Levels of Service           AM Peak Hour           Existing         Existing PIUS FOUR PROJECTS           Existing PIUS FOUR PROJECTS           Control         Int         Delay<br>(sec)         Control         Int<br>LOS         Signal         C         21.4         Signal         C         28.1           Line Rd & Calvine Rd         Signal         C         31.3         Signal         C         28.1           Line Rd & Bond Rd/Wrangler Dr         Signal         C         33.3         Signal         D         50.3           sior Road & Collector WJ-1/Collector JT-1         West Jackson/Jackson Township<br>Project Int.         Signal         D         51.1           sior Road & Collector WJ-2/Collector JT-2         West Jackson/Jackson Township<br>Project Int.         Signal         D         46.2           lector MS-1 & Kiefer Boulevard         Mather South Project Int.         Signal         D         46.2           orldge Dr & Kiefer Boulevard         Mest Jackson Project Int.         Signal         B         19.2           tor WJ-3 & Jackson Road         West Jackson Project Int.         Signal         D         42.7           tare & Jackson Road         West Jackson Project Int.         Signal | Intersection Levels of Service           Intersection           Intersection           Intersection           Intersection           Intersection         Interse | Just FOUR PROJECTS Intersection Levels of Service         Just FOUR PROJECTS Intersection Levels of Service         Just FOUR PROJECTS Intersection Levels of Service         Just Four FOUR PROJECTS         Just Four FOUR PROJECTS         Service Ser | All Peak Hour         Vertex Hour <th <="" colspan="6" td=""><td>Intersection Levels of Service           Intersection Levels of Service</td><td>Intersection Levels of Service         VI          VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI          VI         VI         VI         VI         VI         VI               <th co<="" td=""><td>Junct results of Statute s</td><td>Algebra based based based by a part of the property of the</td></th></td></th> | <td>Intersection Levels of Service           Intersection Levels of Service</td> <td>Intersection Levels of Service         VI          VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI          VI         VI         VI         VI         VI         VI               <th co<="" td=""><td>Junct results of Statute s</td><td>Algebra based based based by a part of the property of the</td></th></td> |            |                |            |  |  | Intersection Levels of Service           Intersection Levels of Service | Intersection Levels of Service         VI          VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI         VI          VI         VI         VI         VI         VI         VI <th co<="" td=""><td>Junct results of Statute s</td><td>Algebra based based based by a part of the property of the</td></th> | <td>Junct results of Statute s</td> <td>Algebra based based based by a part of the property of the</td> | Junct results of Statute s | Algebra based based based by a part of the property of the |

# Table 46

Table 4.6														
Existing Plus FOUR PROJECTS Intersection Levels of Service				AM Peak Hour							PM Peak Hour			
Interpretion		Existing		Existing Plu	s FOUR PF	ROJECTS			Existing		Existing Plu	IS FOUR PF	ROJECTS	
intersection	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
307 S. Watt Avenue & Rock Creek Pkwy	West Ja	ckson Proje	ect Int.	Signal	В	14.2	No	West Ja	ackson Proj	ect Int.	Signal	С	21.3	No
308 Hedge Avenue & Rock Creek Pkwy WB	West Ja	ckson Proje	ect Int.	Roundabout	В	10.1	No	West Ja	ackson Proj	ect Int.	Roundabout	A	8.3	No
309 Hedge Avenue & Rock Creek Pkwy EB	West Ja	ckson Proje	ect Int.	Roundabout	A	9.5	No	West Ja	ackson Proj	ect Int.	Roundabout	A	6.0	No
310 Mayhew Road & Rock Creek Pkwy WB	West Ja	West Jackson Project Int.RoWest Jackson Project Int.Ro			D	25.3	No	West Ja	ackson Proj	ect Int.	Roundabout	F	93.0	Yes
311 Mayhew Road & Rock Creek Pkwy EB	West Ja	West Jackson Project Int. Ro			F	70.6	Yes	West Ja	ackson Proj	ect Int.	Roundabout	С	20.0	No
312 Bradshaw Road & Rock Creek Pkwy	West Ja	West Jackson Project Int. Ro West Jackson Project Int.			D	42.9	No	West Ja	ackson Proj	ect Int.	Signal	D	43.0	No
313 Collector WJ-7 & Rock Creek Pkwy	West Ja	ckson Proje	ect Int.	Signal	В	11.0	No	West Ja	ackson Proj	ect Int.	Signal	В	11.5	No
314 Vineyard Road/Happy Lane & Rock Creek Pkwy	West Ja	ckson Proje	ect Int.	Signal	D	43.1	No	West Ja	ackson Proj	ect Int.	Signal	D	53.1	No
315 Douglas Road & Rock Creek Pkwy	West Ja	ckson Proje	ect Int.	Signal	С	31.7	No	West Ja	ackson Proj	ect Int.	Signal	В	17.6	No
316 Bradshaw Road & Collector WJ-8	West Ja	ckson Proje	ect Int.	Signal	С	26.7	No	West Ja	ackson Proj	ect Int.	Signal	С	26.8	No
317 Bradshaw Road & Collector WJ-9	West Ja	ckson Proje	ect Int.	Signal	D	37.1	No	West Ja	ackson Proj	ect Int.	Signal	D	52.1	No
318 Bradshaw Road & Mayhew Road	West Ja	ckson Proje	ect Int.	Signal	F	112.7	Yes	West Ja	ackson Proj	ect Int.	Signal	F	101.4	Yes
319 Bradshaw Road & Collector WJ-10	West Ja	ckson Proje	ect Int.	Signal	A	7.2	No	West Ja	ackson Proj	ect Int.	Signal	В	16.6	No
320 Bradshaw Road & Collector WJ-11	West Ja	ckson Proje	ect Int.	Signal	В	10.6	No	West Ja	ackson Proj	ect Int.	Signal	А	8.6	No
321 Collector WJ-12 & Fruitridge Road	West Ja	ckson Proje	ect Int.	Signal	С	29.6	No	West Ja	ackson Proj	ect Int.	Signal	С	24.8	No

l adie 4.0														
Existing Plus FOUR PROJECTS Intersection Levels of Service				AM Dook Hour							DM Dook Hour			
		Existina		Existing Plu	s FOUR PF	OJECTS			Existing		Existing Plu	IS FOUR PF	ROJECTS	
Intersection	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
322 Mayhew Road & Collector WJ-13	West Ja	ckson Proje	ect Int.	Signal	А	9.6	No	West Ja	ackson Proj	ect Int.	Signal	В	11.3	No
323 Collector WJ-14 & Kiefer Boulevard	West Ja	ckson Proje	ect Int.	Signal	D	45.3	No	West Ja	ackson Proj	ect Int.	Signal	E	68.6	No
324 Collector WJ-15 & Kiefer Boulevard	West Ja	ckson Proje	ect Int.	Signal	С	27.4	No	West Ja	ackson Proj	ect Int.	Signal	В	15.4	No
325 Douglas Road & Kiefer Boulevard	West Ja	West Jackson Project Int.       S         West Jackson Project Int.       Rot			E	76.7	No	West Ja	ackson Proj	ect Int.	Signal	E	66.0	No
326 Happy Lane & Mayhew Road	West Ja	West Jackson Project Int. Rou			F	67.4	Yes	West Ja	ackson Proj	ect Int.	Roundabout	F	71.7	Yes
327 Vineyard Road & Elder Creek Road	West Ja	West Jackson Project Int. Rol			С	32.9	No	West Ja	ackson Proj	ect Int.	Signal	С	28.8	No
328 Vineyard Road & Florin Road	West Ja	ckson Proje	ect Int.	Signal	В	17.5	No	West Jac Cumul	kson Projec ative Inters	ct/CEQA ection	Signal	В	19.9	No
400 Collector JT-3 & Jackson Road	Jackson T	ownship Pr	oject Int.	Signal	E	57.9	No	Jackson 1	Township Pi	roject Int.	Signal	С	28.2	No
401 Tree View Lane & Jackson Road	Jackson T	ownship Pr	oject Int.	Signal	В	15.0	No	Jackson 7	Township Pi	roject Int.	Signal	В	10.5	No
402 Collector JT-4 & Jackson Road	Jackson T	ownship Pr	oject Int.	Signal	С	21.9	No	Jackson 7	Township Pi	roject Int.	Signal	В	17.9	No
403 Tree View Lane & Collector JT-5	Jackson T	ownship Pr	oject Int.	Signal	В	18.8	No	Jackson 7	Township Pi	roject Int.	Signal	В	19.6	No
404 Tree View Lane & Collector JT-6	Jackson T	ownship Pr	oject Int.	Signal	В	10.2	No	Jackson 7	Township Pi	roject Int.	Signal	В	14.2	No
405 Tree View Lane & Collector JT-1	Jackson T	ownship Pr	oject Int.	Signal	С	30.3	No	Jackson 7	Township Pi	roject Int.	Signal	С	22.6	No
406 Tree View Lane & Kiefer Boulevard	Jackson T	ownship Pr	oject Int.	Signal	С	26.4	No	Jackson 1	Township Pi	roject Int.	Signal	С	21.8	No
407 HS/MS Dwy & Kiefer Boulevard	Jackson T	ownship Pr	oject Int.	Signal	В	18.4	No	Jackson 1	Township Pi	roject Int.	Signal	В	18.8	No

Table 4.0														
Existing Plus FOUR PROJECTS Intersection Levels of Service														
				AM Peak Hour							PM Peak Hour			
Intersection		Existing		Existing Plus	s FOUR PI	ROJECTS			Existing		Existing Plus	s FOUR PI	ROJECTS	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
500 Rockbridge Dr & Jackson Road	NewB	ridge Projec	t Int.	Signal	В	19.2	No	NewB	ridge Project	Int.	Signal	В	11.8	No
501 Eagles Nest Road & N Bridgewater Dr	NewB	ridge Projec	t Int.	Signal	А	9.7	No	NewBi	ridge Project	: Int.	Signal	А	8.8	No
502 Eagles Nest Road & S Bridgewater Dr	NewB	ridge Projec	t Int.	Signal	С	29.7	No	NewB	ridge Project	: Int.	Signal	С	27.4	No
600 Zinfandel Drive & Collector MS-2	Mather	South Proje	ect Int.	Signal	В	12.7	No	Mather	South Proje	ct Int.	Signal	С	20.9	No
601 Zinfandel Drive & Collector MS-3	Mather	South Proje	ect Int.	Signal	В	12.0	No	Mather	South Proje	ct Int.	Signal	В	14.9	No
602 Zinfandel Drive & Collector MS-4	Mather	South Proje	ect Int.	Signal	В	19.3	No	Mather	South Proje	ct Int.	Signal	В	14.2	No
603 Collector MS-5 & Collector MS-2	Mather	South Proje	ect Int.	All-way stop	В	11.0	No	Mather	South Proje	ct Int.	All-way stop	В	12.0	No
604 Collector MS-5 & Collector MS-3				Two-way stop	А	7.0	No				Two-way stop	А	6.0	No
Northbound Left Turn	Mather	South Proie	ect Int.		A	7.5		Mather	South Proie	ct Int.		А	7.4	
Southbound Left Turn					A	0.0						A	0.0	
Eastbound					A	9.7						B	11.4	
605 Collector MS-5 & Collector MS-4	Mather	South Proje	ect Int.	All-way stop	C	15.2	No	Mather	South Proje	ct Int.	All-way stop	B	14.5	No
606 Collector MS-5 & W Collector MS-1/E Collector MS-1	Mather	South Proje	ect Int.	All-way stop	С	19.7	No	Mather	South Proje	ct Int.	All-way stop	С	20.2	No
Note: Gray shading represents changes in traffic control for which t	he project is r	esponsible	to pay a fa	ir share.		·							·	

Table 4.7											
Existing and Existing Plus FOUR PROJECTS Intersection Geo	Traffic	Control		Existing Lan	e Geometrics		Fristi	ng Plus FOLIR PR(	) IECTS Lane Geor	netrics	
Intersection	Existing	Existing Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
1 Howe Avenue & College Town Drive/US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow \downarrow$	5 C C	ካካኝ ዮፖ	111 7	$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$	55 P	<u> ካካ</u> ኘ ዮፖ	
2 Howe Avenue & US 50 EB Ramps	Signal	Signal	111 r	$\downarrow\downarrow\downarrow\downarrow$	ኻኻሾሾ		111 r	$\downarrow \downarrow \downarrow \downarrow_{h}$	<u> </u>		
3 Power Inn Road/Howe Avenue & Folsom Blvd	Signal	Signal	<u>ካ</u> ካተተ ፖ	~+++~~	<u>ካ</u> ካ† ሾ	<u> </u>	ካካተተ ፖ	~+++ <i>r</i> ~	ካካ† ሾ	<u> ካካተተ ፖፖ</u>	
4 Power Inn Road & 14th Avenue	Signal	Signal	<u>ካ</u> ካተተ ሾ	~++ <i>r</i>	<u>ነ</u> ኘ ፖ	Ý	<u>ካካተተ</u> ሾ	~++ <i>r</i>	ን የ ፖ	*	
5 Power Inn Road & Fruitridge Road	Signal	Signal	<u>ካ</u> ካተኛ	511 <i>77</i>	nt ř	ካተ ፖ	<u> ካ</u> ካተኛ	~++ <i>r</i> ~	nt r	<u>ካተተ ፖ</u>	
6 Jackson Road/Notre Dame Dr. & Folsom Blvd.	Signal	Signal	ጓኘ ፖ	44	stt r	ካተተ ፖ	<u>ካ</u> የ ፖ	4	stt r	ካተተ ፖ	
7 Florin Perkins Road/Julliard Dr. & Folsom Boulevard	Signal	Signal	ካኘ ፖ	44	stt c	ካ† ሾ	<u>ካ</u> ነ የ	44	<u>ה וור</u>	ካተ ዮ	
8 Florin Perkins Road & Kiefer Blvd.	Two-way stop	Two-way stop	1 ř	t t r		<u>ነ</u> ኛ	t ir	11 <i>2</i>		<u>ነ</u> ለ	
9 Florin Perkins Road & Jackson Road	Signal	Signal	ካተተ ፖ	414	<u>ז</u> ז † ר	nt ř	<u>ካተተ ፖ</u>	412	51 CC	ካተ ሾ	
10 Florin Perkins Road & Fruitridge Road	Signal	Signal	ካተተ ፖ	~++ <i>r</i>	stt c	nt ř	<u>ካተተ ፖ</u>	~++ <i>r</i>	stt r	ካተ ሾ	
11 Florin Perkins Road & Elder Creek Road	Signal	Signal	ካተተ ፖ	~++ <i>r</i>	stt c	ካተ ፖ	<u>ካተተ ፖ</u>	~++ <i>r</i>	stt r	<u>ካተተ ፖ</u>	
12 Watt Avenue & Folsom Blvd.	Signal	Signal	<u>ካ</u> ካ†† ፖ	~+++ <i>r</i> ~	<u>ካ</u> ካ†† ፖ	<u>ካካተተ ፖ</u>	<u> </u>	5111 <i>77</i>	ካካ†† ፖ	<u>ካካተተ ሮ</u>	
13 S. Watt Ave. & Reith Ct/Manlove Road	Signal	Signal	sttt r	4114	Ý	<u>ካ</u> ዮፖ	ካተተ ፖ	4++4	Ý	<u>ካ</u> ዮጵ	
14 S. Watt Avenue & Kiefer Blvd.	Signal	Signal	<u> ካ</u> ካተተ ሾ	41177	<u>ካ</u> ካ†† ፖ	<u>ካ</u> ካ†† ፖ	<u>ካካተተ</u> ሾ	41177	ካካ†† ፖ	<u>ካካ†† ፖ</u>	
15 S. Watt Avenue & Canberra Dr.	Signal	Signal	11 ř	$\downarrow \downarrow R$		<u> </u>	t t <i>t</i> r	t t r		<u>ን</u> ሮ	
16 S. Watt Avenue & Jackson Road	Signal	Signal	ካተተ ፖ	~++ <i>r</i>	ካሾ	ካ† ፖ	<u>ካ</u> ካ†† ፖ	~++ <i>r</i>	٦ŕ	<u>ካካተተ ሮ</u>	West Jackson
17 S. Watt Avenue & Fruitridge Road	Signal	Signal	<u>ካ</u> ተኛ	~++ <u>+</u>	ካ† ፖ	ካሾ	۳†۲	~++ <i>r</i>	ካተ ፖ	ካ† ሾ	West Jackson
18 S. Watt Avenue & Elder Creek Road	Signal	Signal	<u>ካ</u> ሰለ	245	5 F	ካ† ፖ	ኻ↑ሾ	2↓ K	マド	ካ† ፖ	
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	Signal	<u>ካ</u> ተዮ	414	nt ř	ካተ ፖ	ካ † ሾ	412	nt r	<u>ካተተ ፖ</u>	
21 Elk Grove Florin Road & Gerber Road	Signal	Signal	<u>ካ</u> ካተኛ	51177	<u>ካ</u> ካ†† ፖ	<u>ካ</u> ካ†† ፖ	<u> </u>	~++~~	ካካ†† ፖ	<u>ካካ†† ፖ</u>	
23 Hedge Avenue & Jackson Road	Signal	Signal	ካሾ	45	ን 1 ፖ	ን ት ፖ	<u> ጉ</u> ሾ	45	nt r	ካ† ሾ	West Jackson
24 Hedge Avenue & Fruitridge Road	All-way stop	Signal	*	4	Ý	*	<u>ካ</u> ሰጽ	2 L P	nt r	ካተ ዮ	West Jackson
25 Hedge Avenue & Elder Creek Road	All-way stop	Signal	*	4	Ý	*	<u>ካ</u> ሰጽ	2 L P	nt r	ካተ ዮ	West Jackson
26 Hedge Avenue & Tokay Lane	Two-way stop	Two-way stop	*	4	Ý	Ý	*	4	Ý	Ý	
27 Hedge Avenue & Florin Road	All-way stop	All-way stop	Ý	4	Ý	Ý	Ý	4	Ý	Ý	
28 Mayhew Road & Kiefer Boulevard	Signal	Signal	<u>ኻ</u> ↑ጽ	215	nt r	st r	<u>ካ</u> ተኛ	214	nt r	ካ† ሾ	
29 Mayhew Road & Jackson Road	Two-way stop	Signal	۲ r	*	st c	54	<u>እ</u> እተተ ራ	211 <i>22</i>	ካካተተ ፖ	55111 C	West Jackson

Table 4.7											
Existing and Existing Plus FOUR PROJECTS Intersection Geo	metrics										
	Traffic	Control		Existing Lan	e Geometrics		Existi	ng Plus FOUR PRO	OJECTS Lane Geor	netrics	Project(s)
Intersection	Existing	Existing Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Responsible for Change
30 Mayhew Road & Fruitridge Road	Two-way stop	Signal	7	4	Y		<u> </u>	↓↓ <i>۲</i>	ኻኻሾ		West Jackson
31 Mayhew Road & Elder Creek Road	Two-way stop	Signal	≯	*	Ŷ	*	Ŷ	*	Ŷ	51 č	West Jackson
32 Zinfandel Drive & Woodring Drive	Two-way stop	Two-way stop	7	4	Y		<u> ካ</u> †	4	Y		Mather South
33 Bradshaw Road & Folsom Blvd.	Signal	Signal	<u> ካ</u> ካተ ሾ	N † † K	ካተተ ፖ	<u> </u>	<u>ካ</u> ካተኛ	N T T R	<u>ካ 1 በ ፖ</u>	ካካ†† ፖ	
34 Bradshaw Road & US 50 WB Ramps	Signal	Signal	111 r	↓↓↓ <i>پ</i>		<u> </u>	111 r	$\downarrow \downarrow \downarrow \downarrow$		ኻኻሾሾ	
35 Bradshaw Road & US 50 EB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow$	ኻኻሾሾ		111 r	$\downarrow \downarrow \downarrow \downarrow_{\mathbf{v}}$	<u> </u>		
36 Bradshaw Road & Old Placerville Road	Signal	Signal	<u>ግ 1 1 1 ፖ</u>	41166	ካሾ	<u>ካካ</u> † ፖ	ካተተ ፖ	41177	<u>ነ</u> ኛ	ካካ† ፖ	
37 Bradshaw Road & Kiefer Boulevard	Signal	Signal	ካካተተ ፖ	2 I I I I I I I I I I I I I I I I I I I	<u>ካ</u> ካ† ሾ	<u>ካካ</u> † ሾ	ካካተተ ፖ	511 <i>22</i>	ካካተተ ፖ	ካካተተ ፖ	West Jackson
38 Bradshaw Road & Jackson Road	Signal	Signal	<u> ነ</u> ተ ፖ	N T T R	<u>ה 1 ה</u>	51 C	<u> </u>	N11177	55111 C	ካካተተ ፖ	West Jackson
39 Bradshaw Road & Elder Creek Road	Signal	Signal	<u> ነ</u> ተ ፖ	415	ኻኻሾ	<u> </u>	<u>ካ</u> ተኛ	511 <i>22</i>	<u> </u>	ካካ11 ፖ	West Jackson
40 Bradshaw Road & Florin Road	Signal	Signal	<u> ነ</u> ተ ፖ	415	ኻኻሾ	<u> </u>	<u>ካ</u> ተኛ	415	<u> </u>	<u> </u>	
41 Bradshaw Road & Gerber Road	Signal	Signal	51 ř	415	ኻኻሾ	5 ř	ntr	415	ኻኻሾ	<b>۱</b> ۲	
42 Happy Lane & Old Placerville Road	Two-way stop	Two-way stop	<u></u> ንፖ		† r	<b>n</b> †	ኻሾ		1 r	<b>n</b> †	
43 Happy Lane & Kiefer Boulevard		Signal		ړ	٦		<u>ካካተተ ፖ</u>	~\ <i>\\</i>	<u> </u>	ካካተተ ፖ	West Jackson
44 Excelsior Road & Kiefer Boulevard	Two-way stop	Signal	ŕ	4		Y	nt r		nt r	51 r	West Jackson; Jackson Township
45 Excelsior Road & Jackson Road	Signal	Signal	<b>ካ</b> ሾ	45	<u>ካ</u> ተ ሾ	nt k	<b>٦</b> ٢	21172	<u>ה</u> וות און	55111 C	West Jackson; Jackson Township
46 Excelsior Road & Elder Creek Road	Two-way stop	Signal	7	ل ⁄يـ	Y		<b>ħ</b> †	, r	<u>ነ</u> ኛ		West Jackson
47 Excelsior Road & Florin Road	All-way stop	Signal	*	*	Ý	*	ካሾ	44	ちや	<b>ヽ</b> ケ	West Jackson
48 Excelsior Road & Gerber Road/Birch Ranch Drive	All-way stop	All-way stop	Ŷ	*	Ý	*	Ý	*	Ŷ	*	
49 Mather Field Road & US 50 WB Ramps	Signal	Signal	11 r	, ↓ ↓		<b>۲</b> ¥	11 r	ל † י		<b>٦</b> ¥	
50 Mather Field Road & US 50 EB Ramps	Signal	Signal	111 r	, ↓ ↓	<u></u> ን፝፞፞፞ዮ		111 r	ל † י	<u></u> ን <i>፟ዮ</i>		
51 Mather Field Road & Rockingham Drive	Signal	Signal	ጓጎተ ሾ	NTTR	ንሻ ፖ	N 7	ካተተ ሾ	~\\\ <i>\</i>	ካሻ ፖ	۲ r	
52 Mather Boulevard & Douglas Road	All-way stop	All-way stop	Ý	45	Ý	*	Ý	45	Ý	Ý	
53 Zinfandel Drive & US 50 WB Ramps	Signal	Signal	111 m	↓ ↓ ↓		ኻኻሾ	111 r	† † ا		ኻኻሾ	
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	Signal	t t t t tr	↓ ↓ ↓	<u>ካ</u> የ ፖ	~~	ttt r	† † ا	<u>ካ</u> የ ፖ	~~	
55 Zinfandel Drive & White Rock Road	Signal	Signal	ካካተተ ሾ	5 T T T T T T T T T T T T T T T T T T T	<u>ካካተተ</u> ሾ	<u>ካካ</u> † ዮጵ	<u>ካካተተ</u> ሾ	5111 <i>77</i>	ካካተተ ሾ	<u>ካካ</u> † ሾፖ	

Table 4.7											
Existing and Existing Plus FOUR PROJECTS Intersection Geor	metrics										
	Traffic	Control		Existing Lan	e Geometrics		Existin	ng Plus FOUR PRO	JECTS Lane Geor	netrics	Project(s)
Intersection	Existing	Existing Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Responsible for Change
56 Zinfandel Drive & Data Drive	Signal	Signal	ጓተተ ፖ	4115	<b>۲</b> Ψ	<u>ካ</u> ኘ ፖ	ntt r	4112	۲Ŷ	ን የ ፖ	
57 Zinfandel Drive & International Dr	Signal	Signal	<u> </u>	41155	<u>ካካተተ ሾ</u>	ካካተተ ፖ	ካካተተ ፖ	41166	<u>ካካተተ ሾ</u>	55111 r	
58 Zinfandel Drive & Douglas Road	Signal	Signal	<b>ካ</b> ሾ	245	ጓተ ፖ	ካ1 ፖ	<u> </u>	2166	ጓተ ፖ	ካ1 ፖ	
59 Eagles Nest Road/Zinfandel Drive & Kiefer Boulevard		Signal	۲			۲	nntt c	511 <i>22</i>	nntt c	nntt c	NewBridge; Mather South
60 Eagles Nest Road & Jackson Road	Two-way stop	Signal	*	4	5 ř	ካሾ	<u>ካ</u> ሰጽ	א † <i>ה</i> ה	<u>ካካ</u> † ሾ	ntt a	NewBridge
61 Eagles Nest Road & Florin Road	Two-way stop	Two-way stop	∻	*	Ý	Ŷ	Ŷ	*	Ý	Ý	
62 Sunrise Boulevard & US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow_{\mathbf{v}}$		<i>እእሾሾ</i>	111 r	$\downarrow \downarrow \downarrow \downarrow$		<u> </u>	
63 Sunrise Boulevard & US 50 EB Ramps	Signal	Signal	1111 r	$\downarrow \downarrow \downarrow \downarrow$	<u> </u>		1111 r	$\downarrow \downarrow \downarrow \downarrow$	<u> </u>		
64 Sunrise Boulevard & Folsom Boulevard	Signal	Signal	<u>ካካተተተ ፖ</u>	₽↓↓↓ <i>₹</i> ₹	<u>ה וורי</u>	<u>ካካ† ሾፖ</u>	<u>ካካተተተ ፖ</u>	$\gamma \uparrow \uparrow \uparrow \gamma \rho$	<u>ካካ†† ፖ</u>	<u>ካካ† ዮ</u> ፖ	
65 Sunrise Boulevard & White Rock Road	Signal	Signal	<u>ካካ†††</u> ፖ	₽↓↓↓ <i>₹</i> ₹	<u>ה וורי</u>	<u>ካካተተ ፖ</u>	ካካተተ ፖ	$\gamma \uparrow \uparrow \uparrow \gamma \rho$	<u>ካካ†† ፖ</u>	ካካተተ ፖ	
66 Sunrise Boulevard & International Drive/Monier Circle	Signal	Signal	ካካ†† ሾ	$\uparrow \uparrow \uparrow \uparrow r$	<u>ካካ† ፖፖ</u>	ካሾ	<u>ካካተተ</u> ሾ	$\checkmark$ $\downarrow$ $\downarrow$ $\downarrow$ $\checkmark$	<u>ካካ† ፖፖ</u>	<u>ካ</u> ኛ	
67 Sunrise Boulevard & Douglas Road	Signal	Signal	<u>ካካ†††</u> ፖ	~\\\ <i>\\</i>	<u>ካ</u> ካ† ሾ	<u>ካካ†† ፖ</u>	ካካ††ተ ፖ	$\gamma \uparrow \uparrow \uparrow \gamma r r$	<u>ካካ</u> † ሾ	<u>ካካ†† ፖ</u>	
68 Sunrise Boulevard & Chrysanthy Boulevard	Signal	Signal	111 r	$\uparrow$ $\uparrow$ $r$ $r$		<u> </u>	111 r	$\uparrow$ $\uparrow$ $r$ $r$		<u> </u>	
69 Sunrise Boulevard & Kiefer Boulevard	Signal	Signal	stt c	4144	*	۲ <i>۴</i>	ካተተ ፖ	4144	<u>እ</u> እበበ ለ	N 7	NewBridge; Mather South
70 Sunrise Boulevard & Jackson Road	Signal	Signal	ካሾ	245	ה † ה	<u> ነ</u> በ በ	<u>ካ</u> የ	215	ካ† ፖ	<u>ካ</u> † ፖ	
71 Sunrise Boulevard & Florin Road	Signal	Signal	<b>n</b> †	4	Y		<b>ħ</b> †	4	Y		
72 Sheldon Lake Drive/Sunrise Boulevard & Grant Line Road	Signal	Signal	*	₹ <b>1</b>	ካ1 ፖ	ካሾ	Ý	4⊾	<u>ካ</u> † ፖ	ካሾ	
73 Hazel Avenue & Tributary Point Drive/US 50 WB Off-ramp	Signal	Signal	<u>ካ</u> ካ†††	$\downarrow \downarrow \downarrow \downarrow \downarrow$	r	۲ rr	<u> ካካተተ</u>	$\downarrow \downarrow \downarrow \downarrow \downarrow$	r	1 CC	
74 Hazel Avenue & US 50 EB Ramps	Signal	Signal		$\downarrow \downarrow \downarrow$	<u>ነ</u> ሦስ			$\downarrow \downarrow \downarrow$	<u>ነ</u> ሦፖ		
75 Hazel Avenue & Folsom Boulevard	Signal	Signal	ካሾ	2477	<u>ካካ†</u> ሾ	<u> ነ</u> በ በ	<u>ካ</u> የ	2477	<u>ካካ</u> † ሾ	<u>ካ</u> † ፖ	
76 Prairie City Road & White Rock Road	Signal	Signal		<u>يا ل</u> ي	nt t	11 r		2 L	<u>s</u> ††	11 r	
77 Grant Line Road & White Rock Road	Signal	Signal	<u>n</u> ††	⊿↓↓	<u> </u>		n††	↓↓↓	<u> </u>		
78 Grant Line Road & Douglas Road	All-way stop	All-way stop	4	4	Y		7	4	Y		
79 Grant Line Road & Kiefer Boulevard	All-way stop	All-way stop	*	*	Ý	Ý	Ý	*	*	Ý	
80 Grant Line Road & Jackson Road	Signal	Signal	*	*	5 ሾ	5 ሾ	*	*	<u></u> ን ሾ	<u></u> ን ሾ	
81 Watt Avenue & US-50 EB Ramps	Signal	Signal	1111 r	↓↓↓↓	ኻኻሾሾ		1111 r	⊿4↓↓	<u> </u>		

Table 4.7											
Existing and Existing Plus FOUR PROJECTS Intersection Geo	metrics										
	Traffic	Control		Existing Lan	e Geometrics		Existi	ng Plus FOUR PRO	JECTS Lane Geor	netrics	Project(s)
Intersection	Existing	Existing Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Responsible for Change
82 Watt Avenue & US-50 WB Ramps	Signal	Signal	ተተ ዮፖ	<i>₽</i> 4↓↓↓		<u> </u>	11 rr	↓↓↓↓↓		<u> </u>	
83 Mayhew Rd & Folsom Blvd.	Signal	Signal	ኻኻሾ		11 r	<b>n</b> ††	ኻኻሾ		11 r	n††	
84 65th Street Expy & Fruitridge Road	Signal	Signal	<u>ካተተ ፖ</u>	~ ↓ ↓ <b>\</b>	n††	511 r	ካተተ ፖ	NTTR	<b>n</b> ††	ካተ ፖ	
85 Power Inn Road & Elder Creek Road	Signal	Signal	ጓተኛ	415	ካተተ ፖ	<u>ካ</u> † ሾ	ጓተሾ	414	stt r	ጓተ ፖ	
86 Power Inn Road & Florin Rd	Signal	Signal	ጓተኛ	~↓↓ <b>~</b>	511 ř	511 r	ጓተሾ	NT T R	ጓተተ ሾ	ካተ ፖ	
87 Florin Perkins Road & Florin Rd	Signal	Signal	ካተተ ፖ	~↓↓ <b>~</b>	ካ† ሾ	<u>ካ</u> † ሾ	ካተተ ፖ	NT T R	ጓጎ ሾ	ጓተ ፖ	
88 Bradshaw Rd & Calvine Rd	Signal	Signal	<u> </u>	21166	<u>ካካተተ ፖ</u>	ካካ† ሾ	<u> </u>	2 I I I I I I I I I I I I I I I I I I I	<u> </u>	<u>ካ</u> ካ† ሾ	
89 Vineyard Rd & Calvine Rd	Signal	Signal	Ý	したら	ካ† ሾ	ካ† ሾ	Ý	もたん	<u>ካ</u> ተ ሾ	ካ† ሾ	
90 Excelsior Road & Calvine Rd	All-way stop	All-way stop	Ŷ	*	Ý	Ý	Ý	*	Ý	Ý	
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	Signal	ኻ↑ሾ	45	Ŷ	ካሾ	<u>ካ</u> ተኛ	45	*	ካሾ	
92 Grant Line Rd & Calvine Rd	Signal	Signal	<u> ካ</u> †	4	Y		<u>ካ</u> †	4	Y		
93 Grant Line Rd & Dwy/Wilton Rd	Signal	Signal	ኻሾ	45	ካሾ	った	<u>ካ</u> የ	45	<b>ነ</b> ኛ	ካሾ	
94 Grant Line Rd & Bond Rd/Wrangler Dr	Signal	Signal	ካሾ	245	ላ ፖ	*	<u>ካ</u> ኛ	245	ላ የ	Ý	
200 Excelsior Road & Collector WJ-1/Collector JT-1		Signal					5 t ř	415	ካ1 ፖ	nt c	West Jackson; Jackson Township
201 Excelsior Road & Collector WJ-2/Collector JT-2		Signal					<u>ካ</u> ተዮ	415	ካተ ፖ	nt c	West Jackson; Jackson Township
202 W Collector MS-1 & Kiefer Boulevard		Signal						24	<u>ה</u> דרר	r 1	NewBridge; Mather South
203 Northbridge Dr & Kiefer Boulevard		Signal					<u>ን</u> ሮ		t tr	n t t	NewBridge; Mather South
204 E Collector MS-1 & Kiefer Boulevard		Signal						2 L	n††	tt r	NewBridge; Mather South
300 Collector WJ-3 & Jackson Road		Signal					ኻሾ		r †	n t t	West Jackson
301 Collector WJ-4 & Jackson Road		Signal					<u>ካ</u> ተኛ	214	nt r	ntt r	West Jackson
302 Happy Lane & Jackson Road		Signal					<u>ካካተተ ፖ</u>	~++ <i>r</i> ~	ካካተተ ፖ	<u>ካካተተ ፖ</u>	West Jackson
303 Rock Creek Pkwy & Jackson Road		Signal					ኻተኛ	214	ካካተተ ሾ	ካካተተ ሾ	West Jackson
304 Collector WJ-5 & Jackson Road		Signal					ኻተኛ	214	ካተተ ሥ	<u>st</u> t r	West Jackson
305 Collector WJ-6 & Jackson Road		Signal					ኻ↑ሾ	214	ጓተተ ሾ	<u>st</u> t r	West Jackson
306 Excelsior Road & Collector WJ-6		Signal					<b>n</b> †	4↓	ኘኛ		West Jackson

Exis	ting and Existing Plus FOUR PROJECTS Intersection Geor	netrics											
		Traffic	Control		Existing Lan	e Geometrics		Existi	ng Plus FOUR PRO	JECTS Lane Geor	netrics	Project(s)	
	Intersection	Existing	Existing Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Responsible for Change	
307	S. Watt Avenue & Rock Creek Pkwy		Signal					1 ř	1177		<u>ካ</u> ፖ	West Jackson	
308	B Hedge Avenue & Rock Creek Pkwy WB		Roundabout					7	4		Ý	West Jackson	
309	Hedge Avenue & Rock Creek Pkwy EB		Roundabout					r	4	*		West Jackson	
310	Mayhew Road & Rock Creek Pkwy WB		Roundabout					1 17	4↓		Ý	West Jackson	
311	Mayhew Road & Rock Creek Pkwy EB		Roundabout					1 ř	44	א <i>ד</i>		West Jackson	
312	2 Bradshaw Road & Rock Creek Pkwy		Signal					ካተተ ሥ	4114	ካ1 ፖ	ካ1 ፖ	West Jackson	
313	3 Collector WJ-7 & Rock Creek Pkwy		Signal					*	*	Ý	Ý	West Jackson	
314	Vineyard Road/Happy Lane & Rock Creek Pkwy		Signal					51 ř	414	<u>ה 1 ה</u>	st r	West Jackson	
315	Douglas Road & Rock Creek Pkwy		Signal					<u>s</u> ††	4↓	ኻሾ		West Jackson	
316	Bradshaw Road & Collector WJ-8		Signal					11 r	$\downarrow \downarrow \checkmark$		ኻሾ	West Jackson	
317	Bradshaw Road & Collector WJ-9		Signal					11 r	$\downarrow \downarrow \checkmark$		ኻሾ	West Jackson	
318	Bradshaw Road & Mayhew Road		Signal					<u>ካካ††</u> ፖ	~++++	<u> </u>	<u>ካካተተ ፖ</u>	West Jackson	
319	Bradshaw Road & Collector WJ-10		Signal					<b>n</b> †††	411	ኻሾ		West Jackson	
320	Bradshaw Road & Collector WJ-11		Signal					<u>s</u> †††	4↓↓	<u>ን</u> ፖ		West Jackson	
321	Collector WJ-12 & Fruitridge Road		Signal					<u>ኻ</u> ↑ ፖ	215	nt r	nt ř	West Jackson	
322	2 Mayhew Road & Collector WJ-13		Signal					<b>n</b> ††	4↓	<u>ን</u> ፖ		West Jackson	
323	Collector WJ-14 & Kiefer Boulevard		Signal					٦ř	245	ntt r	ntt r	West Jackson	
324	Collector WJ-15 & Kiefer Boulevard		Signal						24	<u> </u>	11 r	West Jackson	
325	Douglas Road/Shopping Center Dwy & Kiefer Boulevard		Signal					<u>ካካ†</u> ፖ	2 L L	5111 r	<u>ካ</u> ካተተ ፖ	West Jackson	
326	Happy Lane & Mayhew Road		Roundabout					1 F	4↓	ሻሾ		West Jackson	
327	Vineyard Road & Elder Creek Road		Signal					<u>ካካተተ ፖ</u>	~++~~	<u>ካካተተ ሮ</u>	<u>ካካተተ ሮ</u>	West Jackson	
328	Vineyard Road & Florin Road		Signal						2 L	<b>n</b> †	1 r	West Jackson	
400	Collector JT-3 & Jackson Road		Signal						24	<u> </u>	11 r	Jackson Township	
401	Tree View Lane & Jackson Road		Signal						266	<u> </u>	11 r	Jackson Township	
402	Collector JT-4 & Jackson Road		Signal						24	n††	t tr	Jackson Township	
403	Tree View Lane & Collector JT-5		Signal					<u>ካ</u> ተዮ	415	51 ፖ	ካ† ፖ	Jackson Township	
404	Tree View Lane & Collector JT-6		Signal					<u>ካ</u> ተዮ	415	51 r	ካ† ፖ	Jackson Township	

able 4.7													
xisting and Existing Plus FOUR PROJECTS Intersection Geometrics													
	Traffic	Control		Existing Lan	e Geometrics		Existi	ng Plus FOUR PRO	JECTS Lane Geor	netrics	Project(s)		
Intersection	Existing	Existing Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Responsible for Change		
405 Tree View Lane & Collector JT-1		Signal					ጓተኛ	415	ካ1 ፖ	ካ1 ፖ	Jackson Township		
406 Tree View Lane & Kiefer Boulevard		Signal					ኻኻሾ		11 r	<u> </u>	Jackson Township		
407 HS/MS Dwy & Kiefer Boulevard		Signal					ኻሾ		r 1	<b>n</b> ††	Jackson Township		
500 Rockbridge Dr & Jackson Road		Signal						25	<b>n</b> ††	t 7	NewBridge		
501 Zinfandel Drive & N Bridgewater Dr		Signal					t tr	$\downarrow \uparrow r$		<u>ን</u> ኛ	NewBridge		
502 Zinfandel Drive & S Bridgewater Dr		Signal					ħtヤ	415	st r	ካ† ፖ	NewBridge		
600 Zinfandel Drive & Collector MS-2		Signal					t tr	$\uparrow \uparrow r$		<u>ን</u> ኛ	Mather South		
601 Zinfandel Drive & Collector MS-3		Signal					t tr	$\uparrow \uparrow r$		<u>ን</u> ኛ	Mather South		
602 Zinfandel Drive & Collector MS-4		Signal					t tr	$\uparrow \uparrow r$		<u>ን</u> ኛ	Mather South		
603 Collector MS-5 & Collector MS-2		All-way stop					Ý	4	Ý	*	Mather South		
604 Collector MS-5 & Collector MS-3		Two-way stop					Ý	4	Ý	*	Mather South		
605 Collector MS-5 & Collector MS-4		All-way stop					Ý	*	*	Ý	Mather South		
606 Collector MS-5 & W Collector MS-1/E Collector MS-1		All-way stop						24	<u>n</u> 1	<b>م</b> †	Mather South		

Direc- Location AM Peak Hour PM Peak Hour AM Peak Hour PM P											
Direc-	Location	AM Pea	k Hour	PM Pea	k Hour	AM Pea	k Hour	PM Pea	k Hour		
tion		Volume	LOS	Volume	LOS	Volume	LOS	Volume	LOS		
East-	SR 99 / SR 51 to Stockton Boulevard	7,068	С	6,415	С	7,834	D	6,614	С		
bound	Stockton Boulevard to 59th Street	7,470	F	7,228	F	8,261	F	7,448	F		
US 50	59th Street to 65th Street	6,767	D	6,641	D	7,552	D	6,830	D		
	65th Street to Howe Avenue	7,962	D	7,562	D	8,804	D	7,721	D		
	Howe Avenue to Watt Avenue	7,405	D	7,602	D	7,780	D	7,552	D		
	Watt Avenue to Bradshaw Road	7,935	D	7,176	С	8,231	D	7,362	С		
	Bradshaw Rd to Mather Field Rd	7,725	F	7,366	С	7,769	F	7,441	С		
	Mather Field Rd to Zinfandel Drive	7,275	С	7,224	С	7,376	С	7,583	С		
	Zinfandel Drive to Sunrise Blvd	5,121	С	6,649	F	5,419	С	7,126	F		
	Sunrise Boulevard to Hazel Avenue	4,985	С	5,323	F	5,137	С	5,654	F		
West-	Hazel Avenue to Sunrise Boulevard	6,068	D	4,370	С	6,293	Е	4,506	С		
bound	Sunrise Blvd to Zinfandel Drive	7,502	D	4,762	С	7,908	Е	4,995	С		
US 50	Zinfandel Drive to Mather Field Rd	7,548	С	5,765	В	7,806	С	5,780	В		
	Mather Field Rd to Bradshaw Road	7,859	F	6,939	D	7,965	F	6,972	D		
	Bradshaw Road to Watt Avenue	7,550	F	6,466	D	7,366	F	6,941	Е		
	Watt Avenue to Howe Avenue	7,376	F	5,106	F	7,091	F	5,409	F		
	Howe Avenue to 65th Street	8,157	F	7,407	F	8,289	F	8,098	F		
	65th Street to 59th Street	8,278	F	7,358	F	8,412	F	8,036	F		
	59th Street to Stockton Boulevard	9,115	D	7,945	F	9,281	D	8,636	F		
Stockton Boulevard to SR 99 / SR 51         8,546         D         8,136         F         8,704         D         8,725         F											
<b>Bold</b> val	lues denote level of service "F" condition	ıs.									
Red sha	ded values indicate project impacts.										
Source:	DKS Associates, 2014.										

Table 4.	able 4.9: Existing Plus FOUR PROJECTS Peak Hour Freeway Ramp Junction/Weaving Level of Service													
				Exis	sting		Ex	isting H PROJ	Plus FOUR JECTS					
Direc- tion	Location	Junction Type	A.M. F Hou	Peak Ir	P.M. I Hot	Peak ur	A.M. F Hou	Peak Ir	P.M. P Hou	eak r				
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS				
East- bound	Northbound 65th Street Slip Entrance	Waswa	765	D	653	C	785	T	568	C				
US 50	Howe Avenue / Hornet Drive Exit	weave	1,631	D	1,417	U	2,149	ſ	1,645	U				
	Southbound Howe Avenue Loop Entrance	One-Lane Merge	484	С	881	С	551	С	933	С				
	Northbound Howe Avenue Slip Entrance	One-Lane Merge	419	С	431	С	400	С	385	С				
	Watt Avenue Exit	Two-Lane Diverge	1,317	В	1,634	В	1,320	В	1,364	В				
	Watt Avenue Entrance	One-Lane Merge	2,134	F	1,724	D	2,049	Е	1,677	D				
	Bradshaw Road Exit	Two-Lane Diverge	1,520	В	1,228	В	1,911	С	1,510	В				
	Southbound Bradshaw Road Loop Entrance	One-Lane Merge	220	С	422	С	141	С	449	С				
	Northbound Bradshaw Road Slip Entrance	One-Lane Merge	971	С	918	С	1,199	С	1,138	С				
	Mather Field Road Exit	Two-Lane Diverge	1,266	В	1,062	А	1,232	В	1,053	А				
	Southbound Mather Field Road Loop Entrance	One-Lane Merge	125	С	101	В	118	С	92	В				

Table 4	Fable 4.9: Existing Plus FOUR PROJECTS Peak Hour Freeway Ramp Junction/Weaving Level of Service													
				Exi	sting		Ех	isting F PROJ	Plus FOUR JECTS					
Direc- tion	Location	Junction Type	A.M. H Hou	Peak Ir	P.M. I Hot	Peak ur	A.M. H Hou	Peak Ir	P.M. P Hou	eak r				
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS				
	Northbound Mather Field Road Slip Entrance	Weave	317	F	816	С	338	F	1,096	С				
	Zinfandel Drive Exit		2,932		1,452		2,912		1,430					
	Southbound Zinfandel Drive Loop Entrance	One-Lane Merge	182	В	129	С	162	В	112	С				
	Northbound Zinfandel Drive Slip Entrance	One-Lane Merge	348	В	540	С	560	С	666	С				
	Sunrise Boulevard Exit	Major Diverge	1,773	С	1,959	D	1,923	С	2,075	D				
	Sunrise Boulevard Entrance	One-Lane Merge	992	C	889	D	986	С	817	D				
	Hazel Avenue Exit	Two-Lane Diverge	933	В	1,541	С	989	В	1,704	C				
	Hazel Avenue Entrance	Waaya	804	C	945	C	731	C	948	C				
	Aerojet Road Exit	weave	241	C	55	C	240	C	58	C				
West-	Hazel Avenue Exit	Two-Lane Diverge	631	А	869	А	612	А	842	А				
US 50	Northbound Hazel Avenue Loop Entrance	One-Lane Merge	160	В	600	В	160	В	590	В				
	Southbound Hazel Avenue Slip Entrance	One-Lane Merge	1,550	В	800	В	1,740	С	902	В				

Table 4.	Fable 4.9: Existing Plus FOUR PROJECTS Peak Hour Freeway Ramp Junction/Weaving Level of Service													
				Exis	sting		Ex	isting F PROJ	Plus FOUR JECTS					
Direc- tion	Location	Junction Type	A.M. F Hou	Peak Ir	P.M. I Hou	Peak 1r	A.M. F Hou	Peak Ir	P.M. P Hou	eak r				
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS				
	Sunrise Boulevard Exit	One-Lane Diverge	749	Е	758	D	601	Е	704	D				
	Sunrise Blvd Entrance	Lane Addition	2,183	F	1,656	D	2,189	F	1,687	D				
	Zinfandel Drive Exit	One-Lane Diverge	1,034	Е	608	С	1,151	E	738	С				
	Northbound Zinfandel Drive Loop Entrance	Lane Addition	585	В	1,197	В	544	В	1,115	В				
	Southbound Zinfandel Drive Slip Entrance	el One-Lane Merge		С	561	В	387	С	552	В				
	Mather Field Road Exit	One-Lane Drop	1,093	С	556	А	1,338	С	605	А				
	Northbound Mather Field Road Loop Entrance	One-Lane Merge	515	В	861	В	382	В	915	В				
	Southbound Mather Field Road Slip Entrance	One-Lane Merge	387	В	380	В	527	В	368	В				
	Bradshaw Road Exit	Two-Lane Diverge	1,236	В	1,327	В	1,709	В	1,571	В				
	Northbound Bradshaw Road Loop Entrance	One-Lane Merge	914	D	910	С	1,191	D	1,501	D				
	Southbound Bradshaw Road Slip Entrance	One-Lane Merge	338	D	590	С	327	D	694	D				
	Watt Avenue Exit	Major Diverge	1,373	D	1,188	С	1,256	D	1,177	С				
	Northbound Watt Avenue Entrance	One-Lane Merge	820	D	943	С	791	D	904	С				

Table 4.9: Existing Plus FOUR PROJECTS Peak Hour Freeway Ramp Junction/Weaving Level of Service												
				Exi	sting		Ex	tisting I PROJ	Plus FOUR JECTS			
Direc- tion	Location	Junction Type	A.M. F Hou	Peak Ir	P.M. I Hou	Peak 1r	A.M. H	Peak Ir	P.M. P Hou	eak r		
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS		
	Southbound Watt Avenue Slip Entrance	Lane Addition / Weave	1,232	С	1,317	D	1,045	С	1,172	В		
	Howe Avenue Exit	Major Diverge / Weave	1,531	D	1,419	D	1,341	D	1,372	D		
	Northbound Howe Avenue Loop Entrance	One-Lane Merge	654	D	602	С	681	D	734	С		
	Southbound Howe Avenue Slip Entrance	One-Lane Merge	С	574	С	625	С	492	С			
Bold val	lues denote level of service "F	" conditions.										
Red sha	ded values indicate project in	npacts.										
Source:	DKS Associates, 2014.											

		Availab	ole Storage	Length		Maximu	m Queue	Length (fe	et / lane)	
			(feet / lane	)	A	M Peak Ho	our	P	A Peak Ho	our
Direction	US 50 Exit Ramp	L	Т	R	L	Т	R	L	Т	R
Eastbound	Howe Avenue	765	-	765	196		930	224		360
US-50	Watt Avenue	1,500	-	1,500	118		296	161	<b></b>	230
	Bradshaw Road	1,250	-	1,250	129		821	86		636
	Mather Field Road	1,385	-	1,385	222		543	266		60
	Zinfandel Drive	1,025	1,025	1,025	261	866	790	434	403	162
	Sunrise Boulevard	1,695	-	1,695	330		175	397		92
	Hazel Avenue	1,310	_	1,310	351		84	985		27
Westbound	Hazel Avenue	1,9	995	1,995	2	56	48	2	83	462
US-50	Sunrise Boulevard	1,540	_	1,540	136		94	147		140
	Zinfandel Drive	1,065	-	1,065	307		45	175	<b>,</b>	189
	Mather Field Road	1,335	-	1,335	413		368	238	<b>,</b>	100
	Bradshaw Road	1,330	_	1,330	403		118	422		24
	Watt Avenue	1,480	_	1,480	197		532	118		525
	Howe Avenue	1,355	1,355	1,355	140	412	89	206	412	254

Source: DKS Associates, 2014.

## 4.4.4 Existing Plus FOUR PROJECTS Pedestrian and Bicycle Facility Impacts

The FOUR PROJECTS would not remove any existing or planned pedestrian facility. The FOUR PROJECTS would not remove any existing bicycle facility or any facility that is planned in the Bikeway Master Plan. The FOUR PROJECTS would add pedestrian and bicycle demands within the FOUR PROJECTS site and to and from nearby land uses. Complete information on improvements to on- and off-site bicycle and pedestrian facilities is not available at this time. Because the FOUR PROJECTS would add demand for pedestrian and bicycle facilities that may not be available, the impact of the FOUR PROJECTS on pedestrian and bicycle circulation is potentially significant.

## 4.4.5 Existing Plus FOUR PROJECTS Transit System Impacts

Public transit service is currently limited in the vicinity of the FOUR PROJECTS. In the preparation of this analysis, a conceptual transit system to serve the FOUR PROJECTS was developed (see Section 3.1.2.3). The additional transit service was assumed to be funded by the FOUR PROJECTS. However, the timing and implementation of the transit system are uncertain at this time. The FOUR PROJECTS would increase demands for public transit facilities. Therefore, the impact of the FOUR PROJECTS on the transit system is potentially significant.

## 4.4.6 Existing Plus FOUR PROJECTS Functionality Impacts

Table 4.11 summarizes the results of the rural roadway segment functionality analysis. Figure 4.6 illustrates the resultant functionality impacts. The table includes the number of lanes assumed with the implementation of the FOUR PROJECTS, which in many cases is greater than the number of lanes in the existing condition. The shaded table cells under the "Travel Lanes" heading illustrates new roadways and widened roadways that are assumed part of the FOUR PROJECTS. The "Substandard?" heading indicates whether or not a roadway meets the County standards of 12-foot lanes and 6-foot shoulders. If the FOUR PROJECTS make improvements to a roadway segment such as widening, they would be required to reconstruct the entire substandard roadway segment to County standards. The shaded table cells under the "Functionality Impact?" heading indicate those locations with a functionality impact.

As stated above, the traffic analysis assumed that the FOUR PROJECTS would construct a number of travel lanes on roadway segments that are internal to or on the boundary of the FOUR PROJECTS, and the entire roadway segment would be reconstructed to County standards at that time. The timing of implementation of such additional traffic lanes on these internal or boundary roadway segments will affect whether or not impacts would exist at some time prior to full build out of the FOUR PROJECTS.

# Table 4.11Existing Plus FOUR PROJECTS Functionality Impacts

		Seg	ment		]	Existing Sub	standard Roadwa	ys		Existing + FO	UR PROJECT	ſS
ID	Roadway	From	То	Jurisdiction	Travel	Pavement	Substandard? <sup>1</sup>	Existing	Travel	Substandard? <sup>1</sup>	Forecasted	Functionality
					Lanes	(ft)		Volume	Lanes	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Volume	Impact? <sup>2</sup>
15	Douglas Rd	Mather Blvd	Zinfandel Dr	County	2	23	Yes	6,635	2	Yes	12,160	Yes
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	Rancho Cordova/County	2	23	Yes	8,369	2	Yes	11,450	Yes
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	County	2	20	Yes	740	4	No	12,100	Yes <sup>3</sup>
20	Eagles Nest Rd	Jackson Rd	Florin Rd	County	2	<21	Yes	517	2	Yes	8,250	Yes
21	Eagles Nest Rd	Florin Rd	Grant Line Rd	County	2	<21	Yes	189	2	Yes	4,100	No
25	Elder Creek Rd	South Watt Ave	Hedge Ave	County	2	23	Yes	5,576	2	Yes	26,320	Yes
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	County	2	23	Yes	5,797	2	Yes	25,670	Yes
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	County	2	23	Yes	5,355	3	No	15,260	Yes <sup>3</sup>
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd	County	2	23	Yes	2,158	3	No	23,810	Yes <sup>3</sup>
30	Excelsior Rd	Kiefer Blvd	Jackson Rd	County	2	22	Yes	3,716	2	Yes	25,010	Yes
31	Excelsior Rd	Jackson Rd	Elder Creek Rd	County	2	<21	Yes	5,075	3	No	30,490	Yes <sup>3</sup>
32	Excelsior Rd	Elder Creek Rd	Florin Rd	County	2	<21	Yes	4,203	3	No	11,610	Yes <sup>3</sup>
33	Excelsior Rd	Florin Rd	Gerber Rd	County	2	<21	Yes	5,423	2	Yes	14,730	Yes
34	Excelsior Rd	Gerber Rd	Calvine Rd	County	2	<21	Yes	4,229	2	Yes	11,350	Yes
39	Florin Rd	South Watt Ave	Hedge Ave	County	2	22	Yes	7,718	2	Yes	18,340	Yes
40	Florin Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	6,312	2	Yes	14,890	Yes
41	Florin Rd	Mayhew Rd	Bradshaw Rd	County	2	22	Yes	6,317	2	Yes	15,190	Yes
42	Florin Rd	Bradshaw Rd	Excelsior Rd	County	2	22	Yes	3,478	2	Yes	17,150	Yes
43	Florin Rd	Excelsior Rd	Sunrise Blvd	County	2	22	Yes	3,835	2	Yes	8,750	Yes
48	Fruitridge Rd	South Watt Ave	Hedge Ave	City of Sacramento/ County	2	22	Yes	2,890	3	No	17,250	Yes <sup>3</sup>
49	Fruitridge Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	1,790	4	No	20,950	Yes <sup>3</sup>
50	Grant Line Rd	White Rock Rd	Douglas Rd	Rancho Cordova/County	2	22	Yes	7,189	2	Yes	8,980	Yes
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	County	2	22	Yes	4,635	4	No	26,210	Yes <sup>3</sup>
59	Hedge Ave	Jackson Rd	Fruitridge Rd	County	2	22	Yes	3,061	2	Yes	8,750	Yes
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	City of Sacramento/County	2	22	Yes	3,737	2	Yes	3,780	No
61	Hedge Ave	Elder Creek Rd	Florin Rd	County	2	22	Yes	2,722	2	Yes	4,250	No

Red text with light gray shading indicate project impacts.



## Table 4.11 **Existing Plus FOUR PROJECTS Functionality Impacts**

		Seg	ment		]	Existing Subs	standard Roadwa	ys		Existing + FO	UR PROJECT	S
ID	Roadway	From	То	Jurisdiction	Travel Lanes	Pavement (ft)	Substandard? <sup>1</sup>	Existing Volume	Travel Lanes	Substandard? <sup>1</sup>	Forecasted Volume	Functionality Impact? <sup>2</sup>
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	County	2	26	Yes	13,030	6	No	51,570	Yes <sup>3</sup>
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	County	2	26	Yes	10,478	4	No	47,230	Yes <sup>3</sup>
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	City of Sacramento/County	2	22	Yes	4,616	2	Yes	6,900	Yes
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	County	2	22	Yes	4,618	6	No	49,480	Yes <sup>3</sup>
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	County	2	22	Yes	656	3	No	12,540	Yes <sup>3</sup>
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd	County	2	22	Yes	6,751	2	Yes	16,410	Yes
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	County	2	22	Yes	1,616	4	No	36,540	Yes <sup>3</sup>
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	Rancho Cordova/County	2	20	Yes	2,490	2	Yes	1,870	No
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	County	2	<21	Yes	2,848	2	Yes	23,220	Yes

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

<sup>2</sup> Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT.

<sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.

Red text with light gray shading indicate project impacts.





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## FIGURE 4.6 EXISTING PLUS FOUR PROJECTS FUNCTIONALITY IMPACTS

## Legend

Substandard Roadways

Functionality Impact

Functionality Impact if Roadway is Not Already Improved

Cities

Mather Airport



## 4.5 MITIGATION

## 4.5.1 Existing Plus FOUR PROJECTS Roadway Segment Mitigation

Table 4.12 summarizes the results of the operations analysis for the study area roadway segments with mitigation. Where feasible, the number of roadway lanes was increased to mitigate the impact. However, the increased number of lanes could not exceed the maximum General Plan designations of the appropriate jurisdictions. The shaded table cells under the "Travel Lanes" and "Facility Type" headings illustrate widened roadways for mitigation purposes, which would be the responsibility of the FOUR PROJECTS to fund and provide. The NewBridge project would contribute a fair share. The shaded table cells under the "Level of Service" heading indicate those locations that would continue to have LOS impacts after mitigation. The table also includes the constraint that precluded full mitigation of the LOS impact.

The "LOS Impact with Mitigation?" column shows whether there is still an LOS impact after the mitigation measure is applied. In other words, this column shows whether a mitigation measure successfully mitigates the impact or not. In several locations where the improvements allowed under the General Plan would not mitigate an LOS impact, the County has proposed alternative mitigation measures, which are shown in the "Alternative Mitigation" column. These alternative mitigation measures will either fully mitigate the impact or substantially reduce the level of impact.

## 4.5.2 Existing Plus FOUR PROJECTS Intersection Mitigation

Tables 4.13 and 4.14 summarize the results of the operations analysis for the study area intersections with mitigation. However, the increased number of lanes on each approach does not exceed the County's standard number of approach lanes. Shaded table cells in Table 4.14 indicate those locations where changes in traffic control and / or number of approach lanes by type have been made to mitigate impacts, which would be the responsibility of the FOUR PROJECTS to fund and provide. The NewBridge project would contribute a fair share. The shaded table cells in Table 4.13 under the "Level of Service" heading indicate those locations with an LOS impact after mitigation. Table 4.14 also identifies those intersections that would continue to have LOS impacts after mitigation, along with the constraint that precluded full mitigation. Detailed analysis information is included in the technical appendix.

The "LOS Impact with Mitigation?" column shows whether there is still an LOS impact after the mitigation measure is applied. In other words, this column shows whether a mitigation measure successfully mitigates the impact or not. In several locations where the LOS impact could not be mitigated by implementing the County's standard number of approach lanes, the County has proposed alternative mitigation measures, which are shown in the "Alternative Mitigation" column. These generally include providing additional turn lanes, carrying an additional through lane past the intersection, or designating the intersection as a High Capacity Intersection. These alternative mitigation measures will either fully mitigate the impact or substantially reduce the level of impact.

## High Capacity Intersections

Three intersections are currently designated as "High Capacity Intersections" on the County's General Plan: Watt Avenue & Folsom Boulevard, Watt Avenue & Kiefer Boulevard, and Watt Avenue & Jackson Road. At two intersections on Bradshaw Road where an LOS impact could not be mitigated by implementing the County's standard number of approach lanes, the County has proposed alternative mitigation measures by designating those two intersections as High Capacity Intersections: Bradshaw Road & Mayhew Road and Bradshaw Road & Jackson Road.

A high capacity intersection would utilize special treatments to increase the capacity of the intersection so as to reduce congestion and travel delay. Since each intersection could have unique travel movements, volumes and existing context sensitive conditions, the special treatments utilized at each high capacity intersection will be selected to meet the specific needs of each intersection. The range of special treatments is quite wide, ranging from the restriction of certain turning movements to various combinations that could include grade separating certain movements. While the field of traffic engineering is ever expending and evolving resulting in the use of new technologies and treatments, special treatments such as the following could be utilized at a high capacity intersection:

- Restricting turning movements
- Median U-turns
- Roundabouts
- Split intersections
- Quadrant roadway intersections
- Bowtie intersections
- Directional flyovers
- Center turn overpass
- Grade separated Roundabout
- Diverging diamond grade separation
- Compact diamond grade separation
- Single point urban grade separation
- Traditional urban grade separation

The County has conducted conceptual engineering to define potential improvements at the three study area intersections on Watt Avenue that are currently designated as "High Capacity Intersections" on the County's General Plan. These are:

• At the Watt Avenue & Folsom Boulevard intersection, the County proposes an ultimate configuration involving grade separation of the northbound and southbound through movements of Watt Avenue. Access to and from Folsom Boulevard would be accomplished via on and off-ramps from the left lanes of Watt Avenue to a single signalized intersection. A bus rapid transit (BRT) lane along Watt Avenue would also intersect Folsom Boulevard at the traffic signal. This design is consistent with the recommendations of the South Watt Area Transportation Study (SWATS) dated November 1, 2002 and approved by the Board of Supervisors on November 26, 2002, and with the planning study for the *State Route 16 (Jackson Road) Corridor Study* (Fehr

& Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.

- At the Watt Avenue & Kiefer Boulevard intersection, the County proposes a tight diamond interchange as the ultimate improvement. The through movements (and BRT lane) on Watt Avenue would be grade separated from Kiefer Boulevard. Access to and from Kiefer Boulevard would be accomplished via on and off-ramps at two signalized intersections along Kiefer Boulevard. This design is proposed in the planning study prepared for *State Route 16 (Jackson Road) Corridor Study* (Fehr & Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.
- At the Watt Avenue & Jackson Road intersection, the County proposes a standard sixby-six signalized intersection (two left-turn lanes, three through lanes, and one right-turn lane, on each approach) with three modifications. 1) The southbound left-turn movement would be grade separated; 2) The westbound right-turn movement would be grade separated; and 3) Three northbound left-turn lanes are proposed. This configuration represents an enhanced version of Alternative 6 in the planning study prepared for *State Route 16 (Jackson Road) Corridor Study* (Fehr and Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.

At the two new proposed "High Capacity Intersections" along Bradshaw Road, the ultimate configurations have not been defined. A number of improvement options involving one or more of the special treatments identified above could be defined that would mitigate the LOS impact at these locations. Since each of these intersections have unique travel movements, volumes and existing context sensitive conditions (potential environmental issues, right-of-way, physical constraints, etc.), the special treatments utilized at each location will need to be studied to select the treatments that mitigate the LOS impact, while avoiding or minimizing other impacts. At Bradshaw Road & Mayhew Road, heavy southbound right turns and westbound left turns suggest that a combination of triple left-turn lanes, dual right-turn lanes and/or overlap phasing may be effective. A high conflicting northbound and southbound volume suggests that grade separating one or more movements may also be necessary to fully mitigate the LOS impact. At Bradshaw Road & Jackson Road, the critical movements are the conflicting through volumes on all approaches. Grade separating either the Bradshaw Road or Jackson Road through movements is likely the only option that would mitigate the LOS impact at this location.

	Segment				Existing	g + FOUR PR	OJECTS				Mitigated	Existing +	- FOUR PRO	JECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
2	Bradshaw Rd	US 50	Lincoln Village Dr	6	Arterial M	81,440	1.51	F	6	Arterial M	1.51	F	Yes		Maximum General Plan lanes
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd	6	Arterial M	76,070	1.41	F	6	Arterial M	1.41	F	Yes		Maximum General Plan lanes
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd	6	Arterial M	69,070	1.28	F	6	Arterial M	1.28	F	Yes		Maximum General Plan lanes
5.1	Bradshaw Rd	Goethe Rd	Collector WJ-8	4	Arterial M	57,700	1.60	F	6	Arterial M	1.07	F	Yes		Maximum General Plan lanes
5.2	Bradshaw Rd	Collector WJ-8	Kiefer Blvd	5	Arterial M	56,380	1.57	F	6	Arterial M	1.04	F	Yes		Maximum General Plan lanes
6.1	Bradshaw Rd	Kiefer Blvd	Collector WJ-9	5	Arterial M	57,960	1.61	F	6	Arterial M	1.07	F	Yes		Maximum General Plan lanes
6.2	Bradshaw Rd	Collector WJ-9	Mayhew Rd	5	Arterial M	54,630	1.52	F	6	Arterial M	1.01	F	Yes		Maximum General Plan lanes
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd	2	Arterial M	23,530	1.31	F	4	Arterial M	0.65	В	No		
24	Elder Creek Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	19,020	1.06	F	4	Arterial M	0.53	Α	No		
25	Elder Creek Rd	South Watt Ave	Hedge Ave	2	Arterial M	26,320	1.46	F	4	Arterial M	0.73	C	No		
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	2	Arterial M	25,670	1.43	F	4	Arterial M	0.71	C	No		
28.1	Elder Creek Rd	Bradshaw Rd	Vineyard Rd	3	Arterial M	23,810	1.32	F	4	Arterial M	0.66		No		
29	EIK Grove-Florin Kd	FIOTIN KO	Gerber Ka	2	Arterial M	24,830	1.38	r F	4	Arterial M	0.69	B	INO No		
31.1	Excelsion Rd	Collector WI-6	Elder Creek Rd	3	Arterial M	30,040	1.70	F	4	Arterial M	0.85		No		
39	Florin Rd	South Watt Ave	Hedge Ave	2	Arterial M	18,340	1.02	F	4	Arterial M	0.51	A	No		



		ment		Existing	g + FOUR PR	OJECTS				Mitigated	Existing +	FOUR PRO	JECTS		
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
44	Folsom Blvd	Howe Ave	Jackson Rd	4	Arterial M	55,810	1.55	F	4	Arterial M	1.55	F	Yes		Maximum General Plan lanes
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	24,650	1.37	F	4	Arterial M	0.68	В	No		
48	Fruitridge Rd	South Watt Ave	Hedge Ave	3	Arterial M	17,250	0.96	E	4	Arterial M	0.48	А	No		
55	Grant Line Rd	Calvine Rd	Sheldon Rd	2	Rural S	16,650	0.83	E	4	Arterial M	0.46	А	No		
56	Grant Line Rd	Sheldon Rd	Wilton Rd	2	Rural S	24,280	1.21	F	4	Arterial M	0.67	В	No		
57	Grant Line Rd	Wilton Rd	Bond Rd	2	Rural S	21,350	1.07	F	4	Arterial M	0.59	А	No		
62	Howe Ave	US 50	Folsom Blvd	6	Arterial M	62,720	1.16	F	6	Arterial M	1.16	F	Yes		Maximum General Plan lanes
65	Jackson Rd	Folsom Blvd	Florin Perkins Rd	2	Arterial M	34,200	1.90	F	4	Arterial M	0.95	Е	No		
66	Jackson Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	40,370	2.24	F	4	Arterial M	1.12	F	Yes		Maximum General Plan lanes
67	Jackson Rd	South Watt Ave	Hedge Ave	4	Arterial M	61,300	1.70	F	6	Arterial M	1.14	F	Yes		Maximum General Plan lanes
68.1	Jackson Rd	Hedge Ave	Collector WJ-3	4	Arterial M	54,090	1.50	F	6	Arterial M	1.00	F	Yes		Maximum General Plan lanes
68.2	Jackson Rd	Collector WJ-3	Mayhew Rd	4	Arterial M	55,200	1.53	F	6	Arterial M	1.02	F	Yes		Maximum General Plan lanes
69	Jackson Rd	Mayhew Rd	Bradshaw Rd	6	Arterial M	55,630	1.03	F	6	Arterial M	1.03	F	Yes		Maximum General Plan lanes



		Segment			Existing	g + FOUR PR	Mitigated Existing + FOUR PROJECTS								
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
71.1	Jackson Rd	Excelsior Rd	Collector JT-3	4	Arterial M	47,230	1.31	F	6	Arterial M	0.87	D	No		
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	2	Rural Hwy	17,790	0.78	E	4	Arterial M	0.49	А	No		
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd	4	Arterial M	42,990	1.19	F	4	Arterial M	1.19	F	Yes		Maximum General Plan lanes
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd	2	Res Collector F	16,410	2.05	F	2	Res Collector F	2.05	F	Yes	Construct Douglas Road extension to 4 lanes	Maximum General Plan lanes
89.1	Mayhew Rd	Jackson Rd	Rock Creek Pkwy	4	Arterial M	36,540	1.02	F	6	Arterial M	0.68	В	No		
92	Old Placerville Rd	Happy Ln	Routier Rd	2	Arterial M	24,000	1.33	F					No	Happy Lane realigned to Routier Road, widened to 6 lanes	
96	South Watt Ave	Folsom Blvd	Kiefer Blvd	6	Arterial M	69,720	1.29	F	6	Arterial M	1.29	F	Yes		Maximum General Plan lanes
97	South Watt Ave	Kiefer Blvd	Jackson Rd	5	Arterial M	51,440	1.43	F	6	Arterial M	0.95	Е	No		
99	South Watt Ave	Fruitridge Rd	Elder Creek Rd	2	Arterial M	26,290	1.46	F	4	Arterial M	0.73	С	No		
100	South Watt Ave	Elder Creek Rd	Florin Rd	2	Arterial M	25,530	1.42	F	4	Arterial M	0.71	C	No		
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd	2	Arterial M	20,060	1.11	F	4	Arterial M	0.56	А	No		
110	Watt Ave	US 50	Folsom Blvd	6	Arterial H	80,700	1.35	F	6	Arterial H	1.35	F	Yes		Maximum General Plan lanes



		Seg	ment		Existing	g + FOUR PR	OJECTS		Mitigated Existing + FOUR PROJECTS								
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible		
118	Zinfandel Dr	US 50	White Rock Rd	7	Arterial M	51,560	0.95	Е	7	Arterial M	0.95	Е	Yes		Maximum General Plan lanes		
122	Zinfandel Dr	City Limit	Douglas Rd	2	Arterial M	26,100	1.45	F	4	Arterial M	0.73	С	No				
123.1	Zinfandel Dr	Douglas Rd	Collector MS-2	2	Arterial M	23,220	1.29	F	4	Arterial M	0.65	В	No				
200	Kiefer Blvd	Tree View Ln	Eagles Nest Rd	2	Arterial M	22,920	1.27	F	4	Arterial M	0.64	В	No				
405	Collector JT-3	Collector JT-5	Jackson Rd	2	Res Collector F	16,550	2.07	F	2	Arterial M	0.92	Е	No				
602	Collector MS-2	Eagles Nest Rd	Collector MS-5	2	Res Collector F	9,200	1.15	F	2	Res Collector NF	0.92	Е	No				

Note: Gray shading represents changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage

<sup>2</sup> Alternative mitigations represent proposed mitigations beyond the General Plan, as proposed by the County of Sacramento.



able 4.13															
Existing Plus FOUR PROJECTS Impacted Intersections and Mitigations															
				AM Peak Hou	r			PM Peak Hour							
Interpretion	Existing Plu	s FOUR PF	OJECTS		Mitigated F	PROJECTS			Existing Plus FOUR PROJECTS			Mitigated I P	Existing Plu ROJECTS	s FOUR	
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	
6 Jackson Road/Notre Dame Dr. & Folsom Blvd.	Signal	Е	63.3	No				Signal	F	95.2	Yes	Signal	D	47.8	
9 Florin Perkins Road & Jackson Road	Signal	F	123.3	Yes	Signal	D	47.2	Signal	F	146.7	Yes	Signal	D	50.2	
12 Watt Avenue & Folsom Blvd.	Signal	E	79.1	No				Signal	F	90.4	Yes	Signal	D	44.5	
14 S. Watt Avenue & Kiefer Blvd.	Signal	F	138.5	Yes	Signal	SB Ramps B NB Ramps C	SB Ramps 16.1 NB Ramps 21.9	Signal	F	136.6	Yes	Signal	SB Ramps B NB Ramps C	SB Ramps 17.0 NB Ramps 21.5	
16 S. Watt Avenue & Jackson Road	Signal	F	404.2	Yes	Signal	С	34.6	Signal	F	385.0	Yes	Signal	С	27.9	
17 S. Watt Avenue & Fruitridge Road	Signal	F	114.0	Yes	Signal	D	54.1	Signal	E	68.4	Yes	Signal	D	51.9	
18 S. Watt Avenue & Elder Creek Road	Signal	F	177.5	Yes	Signal	D	50.5	Signal	F	189.3	Yes	Signal	E	60.9	
23 Hedge Avenue & Jackson Road	Signal	F	155.7	Yes	Signal	С	33.1	Signal	Е	68.6	No				
27 Hedge Avenue & Florin Road	All-way stop	E	43.2	No				All-way stop	F	59.5	Yes	Signal	D	49.9	
28 Mayhew Road & Kiefer Boulevard	Signal	F	130.1	Yes	Signal	E	79.1	Signal	Е	76.6	No				
31 Mayhew Road & Elder Creek Road	Signal	F	355.5	Yes	Signal	E	58.6	Signal	F	353.8	Yes	Signal	D	41.7	
36 Bradshaw Road & Old Placerville Road	Signal	D	48.7	No				Signal	Е	60.9	Yes				
37 Bradshaw Road & Kiefer Boulevard	Signal	F	129.2	Yes	Signal	F	115.9	Signal	F	153.2	Yes	Signal	F	107.4	
39 Bradshaw Road & Elder Creek Road	Signal	F	136.6	Yes	Signal	E	75.9	Signal	E	73.2	No				

# Table 4 13

l able 4.13														
Existing Plus FOUR PROJECTS Impacted Intersections and Mitigati	ons													
				AM Peak Hour	r						PM Peak Hour			
Interpretien	Existing Plus	s FOUR PF	ROJECTS		PROJECTS			Existing Plus FOUR PROJECTS				Mitigated E P	xisting Plu ROJECTS	s FOUR
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
40 Bradshaw Road & Florin Road	Signal	F	126.9	Yes	Signal	E	56.6	Signal	Е	70.6	No			
41 Bradshaw Road & Gerber Road	Signal	F	82.8	Yes	Signal	E	74.1	Signal	Е	69.3	No			
42 Happy Lane & Old Placerville Road	Two-way stop	С	15.4	Yes	Signal	E	55.0	Two-way stop	F	>300	Yes	Signal	D	52.9
Northbound Left Turn		F	>300						F	>300				
Northbound Right Turn		F	>300						F	211.4				
Westbound Left Turn		E	41.3						С	20.5				
45 Excelsior Road & Jackson Road	Signal	F	210.6	Yes	Signal	D	38.1	Signal	F	165.8	Yes	Signal	D	45.7
46 Excelsior Road & Elder Creek Road	Signal	С	34.1	No				Signal	F	81.3	Yes	Signal	С	27.5
Northbound Left Turn Eastbound														
51 Mather Field Road & Rockingham Drive	Signal	F	85.9	Yes				Signal	D	54.9	No			
52 Mather Boulevard & Douglas Road	All-way stop	F	57.0	Yes	Signal	D	43.2	All-way stop	Е	43.4	No			
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	E	62.8	Yes				Signal	Е	64.2	No			
61 Eagles Nest Road & Florin Road	Two-way stop	F	71.8	Yes	Signal	E	78.5	Two-way stop	F	100.0	Yes	Signal	Е	69.3
Northbound		F	287.6						F	>300				
Southbound		F	>300						F	242.6				
Eastbound Left Turn		А	8.4						А	8.2				
Westbound Left Turn		А	0.0						А	7.8				
70 Sunrise Boulevard & Jackson Road	Signal	F	120.5	Yes	Signal	D	54.6	Signal	Е	79.2	No			

Table 4.13														
Existing Plus FOUR PROJECTS Impacted Intersections and Mitigat	ions			AM Peak Hour	•						PM Peak Hour			
	Existing Plus FOUR PROJECTS			Mitigated Existing Plus FOUR PROJECTS			Existing Plus FOUR PROJECTS				Mitigated E P	xisting Plu ROJECTS	s FOUR	
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
80 Grant Line Road & Jackson Road	Signal	F	113.0	Yes	Signal	E	64.1	Signal	F	80.2	No			
90 Excelsior Road & Calvine Rd	All-way stop	F	55.1	Yes	Signal	D	36.3	All-way stop	Е	43.2	Yes	Signal	D	37.4
93 Grant Line Rd & Dwy/Wilton Rd	Signal	F	94.6	Yes	Signal	D	45.7	Signal	F	104.4	Yes	Signal	E	69.4
310 Mayhew Road & Rock Creek Pkwy WB	Roundabout	D	25.3	No				Roundabout	F	93.0	Yes	Signal	D	51.7
311 Mayhew Road & Rock Creek Pkwy EB	Roundabout	F	70.6	Yes	Signal	E	59.4	Roundabout	С	20.0	No			
318 Bradshaw Road & Mayhew Road	Signal	F	112.7	Yes	Signal	F	92.5	Signal	F	101.4	Yes	Signal	E	58.8
326 Happy Lane & Mayhew Road	Roundabout	F	67.4	Yes	Signal	D	47.2	Roundabout	F	71.7	Yes	Signal	С	29.1
Note: Gray shading represents changes in traffic control for which	the project is re	sponsible	to pay a fa	ir share.		•							•	۱ <u>ــــــــــــــــــــــــــــــــــــ</u>

able 4.14														
xisting Plus FOUR PROJECTS Intersection Impacts and Mitigations Traffic Control Existing Plus FOUR PROJECTS Lane Mitigated Existing Plus FOUR PROJECTS Lane														
	Traffic	Control	Existing P	Plus FOUR PRO	JECTS Lane G	Geometrics	Mitigated I	Existing Plus F Geome	OUR PROJEC	TS Lane				
Intersection	Existing Plus FOUR PROJECTS	Mitigated Existing Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach WB Approach		NB Approach	SB Approach	EB Approach	WB Approach	LOS Impact with Mitgation?	High Capacity Intersection? <sup>1</sup>	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
6 Jackson Road/Notre Dame Dr. & Folsom Blvd.	Signal	Signal	ካ የ ፖ	4	ካተተ ፖ	stt c	<u></u> ነሻ ፖ	₹ <b>₩</b>	stt ee	<u>ካተ ፖ</u>	No	No	Dual EBR	
9 Florin Perkins Road & Jackson Road	Signal	Signal	ጓተተ ፖ	415	ነ† ፖፖ	ካ† ሾ	<u>ካተተ ፖ</u>	415	<u>ካተ ፖ</u>	<u>א</u> ור	No	No		
12 Watt Avenue & Folsom Blvd.	Signal	Signal	<u>ካካ†††</u> ፖ	~+++~~	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	\$₹	274	ካካ†† ፖ	<u>ካካ††</u> ፖ	No	Yes	Grade separated NBT and SBT	
14 S. Watt Avenue & Kiefer Blvd.	Signal	Signal	<u>ካካተተ</u> ሾ	41166	<u>ካካ†† ፖ</u>	<u>ካካ††</u> ፖ		244	11 r	n t t			Tight Diamond Interchange (SB Watt Ramps/Kiefer intersection shown)	
	Signal	Signal	<u>ካካተተ</u> ሾ	41144	<u>ካካ††</u> ፖ	<u>ካካ††</u> ፖ	<u>٦</u> ٢		<b>n</b> ††	11 r	NO	165	Tight Diamond Interchange (NB Watt Ramps/Kiefer intersection shown)	
16 S. Watt Avenue & Jackson Road	Signal	Signal	ካካ†† ፖ	~++~	<u>ነ</u> ዮ	<u>ካ</u> ካ†↑ ፖ	ההה † † ההה	✔↓↓↓↓↓↓ *Free left	<u>א</u> וררי	זר`ר` *Free right	No	Yes	Triple NBL, Free WBR and SBL via tunnel	
17 S. Watt Avenue & Fruitridge Road	Signal	Signal	<u>ካ</u> ተዮ	2112	ካተ ፖ	ካተ ዮ	STT Z	21112	nt r	51 r	No	No		
18 S. Watt Avenue & Elder Creek Road	Signal	Signal	<u>ነ</u> †ፖ	<b>2</b> ↓¢	7 F	ጓተ ፖ	<u> ነ</u> ተ ተ ፖ	211V	5 t Y	51 ř	No	No		
23 Hedge Avenue & Jackson Road	Signal	Signal	ካሾ	45	ጓተ ሾ	nt r	ካካሾ	45	5111 r	ጓተተ ሥ	No	No	Dual NBL, and exclusive EBR	
27 Hedge Avenue & Florin Road	All-way stop	Signal	Ŷ	*	*	*	*	*	ካሾ	٦ř	No	No		
28 Mayhew Road & Kiefer Boulevard	Signal	Signal	<u>ካ</u> ሰፖ	214	ካተ ሾ	ካተ ሾ	<u>ካ</u> ሰ ፖ	2166	ካተ ሾ	511 r	No	No	Dual SBL	
31 Mayhew Road & Elder Creek Road	Signal	Signal	৵	*	*	ጓጎ ፖ	*	22 L C	5 ř	ካተ ፖ	No	No	Dual SBR	
36 Bradshaw Road & Old Placerville Road	Signal	Signal	ה ווור	41172	ኁሾ	<u>ካ</u> ካ† ሸ	<u>ግ</u> ተተ ፖ	41144	ካሾ	ካካ† ፖ	Yes	No		Existing development
37 Bradshaw Road & Kiefer Boulevard	Signal	Signal	<u>ካካ†††</u> ፖ	~++ <i>r</i> ~	<u>ካካ†† ፖ</u>	החור <i>ב</i>	<u>ካካ†††</u> ፖ	211144	ה וות הר	nntit c	Yes	No	Carry 3 EBT and 3 WBT lanes through intersection	Maximum General Plan Ianes
39 Bradshaw Road & Elder Creek Road	Signal	Signal	ጓተሾ	511 <i>22</i>	ኣጓሾ	<u>ካካ††</u> ፖ	ካተተ ፖ	211 <i>2</i> 2	ካካ‡ ፖ	<u> ነ</u> ነ ነ ነ ነ	No	No		
40 Bradshaw Road & Florin Road	Signal	Signal	ጓተሾ	415	<u>ካካ</u> ዮ	<u>ካካ</u> ዮ	ካተተ ፖ	415	<u>ካ</u> ካሾ	<u>ን</u> ንሾ	No	No		
41 Bradshaw Road & Gerber Road	Signal	Signal	ጓተሾ	414	<u>ካካ</u> ሾ	<u>ካ</u> ዮ	ntt r	414	<u>ካ</u> ካሾ	ካሾ	No	No		
42 Happy Lane & Old Placerville Road	Two-way stop	Signal	<u></u> ጉፖ		1 7	<b>ħ</b> †	<u> </u>	21144	ה וורר <u>מ</u>	nnt r	No	No	Realign Happy Lane to Routier Road (4 lanes)	
45 Excelsior Road & Jackson Road	Signal	Signal	<u></u> ን ዮ	<u>sttrr</u>	<u>ካ</u> ካ†† ፖ	<u>א</u> ורר	55111 r	<u>stttrr</u>	<u>א וורר</u>	<u>א</u> ורר א	No	No	NBR overlap	
46 Excelsior Road & Elder Creek Road	Signal	Signal	<b>ħ</b> †	ل بہ	ንሮ		<b>ħ</b> †	† <i>د</i>	<u>ነ</u> ነለ		No	No		

# Table 4 14

Table 4.14														
Existing Plus FOUR PROJECTS Intersec	tion Impacts an	d Mitigations												
	Traffic	Control	Existing P	Plus FOUR PRO	JECTS Lane G	eometrics	Mitigated	Existing Plus F Geome	OUR PROJEC	TS Lane	I OS Impact			Constraint if Full Mitigation Not Possible
Intersection	Existing Plus FOUR PROJECTS	Mitigated Existing Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	with Mitgation?	High Capacity Intersection? <sup>1</sup>	Alternative Mitigation <sup>2</sup>	
51 Mather Field Road & Rockingham Drive	Signal	Signal	<u> </u>	~+++ <i>r</i>	ን የ ፖ	ሻ ሾ	<u>א</u> ור ד	NTTR	ጓኘ ፖ	ላ ፖ	Yes	No		Existing development
52 Mather Boulevard & Douglas Road	All-way stop	Signal	$\mathbf{v}$	45	*	*	*	45	*	5 ř	No	No		
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	Signal	ttt r	ل ا د	<u>ካ</u> ኘ ዮፖ	77	111 r	↓ ↓ ∿	<u>ካ</u> ኘ ዮጵ	rr	Yes	No		Maximum General Plan lanes
61 Eagles Nest Road & Florin Road	Two-way stop	Signal	*	*	*	*	Ŷ	*	ካዮ	5 ř	No	No		
70 Sunrise Boulevard & Jackson Road	Signal	Signal	<u>ካ</u> ሾ	245	st c	ጓጎ ፖ	<u>ካ</u> ተዮ	217	ንተ ዮ	<u>ካ</u> ተ ዮ	No	No		
80 Grant Line Road & Jackson Road	Signal	Signal	*	*	<u>ን</u> ሾ	ኻሾ	*	*	ъዮ	ካተ ዮ	No	No		
90 Excelsior Road & Calvine Rd	All-way stop	Signal	*	*	*	*	<u>ካ</u> ሾ	45	ъዮ	5 ř	No	No		
93 Grant Line Rd & Dwy/Wilton Rd	Signal	Signal	<u> </u>	45	ኁሾ	ኻሾ	<u>ካ</u> ተዮ	45	ъዮ	<u> </u> ጉ ዮ	No	No		
310 Mayhew Road & Rock Creek Pkwy WB	Roundabout	Signal	1 F	41		*	<u>ካ</u> ተዮ	415	ካ† ፖ	n† r	No	No		
311 Mayhew Road & Rock Creek Pkwy EB	Roundabout	Signal	1 r	44	ママ		nt r	414	ካ† ፖ	nt c	No	No		
318 Bradshaw Road & Mayhew Road	Signal	Signal	ה וורר <i>ר</i>	~+++~~	<u>ካካተተ ጽ</u>	<u>ካካ†† ፖ</u>	<u>א</u> ור די די	77††77	<u>אאז דרר</u>	<u> </u>	Yes	No	HCI, Triple EBL and dual SBR	Maximum General Plan Ianes
326 Happy Lane & Mayhew Road	Roundabout	Signal	1 F	41	ኘሮ		<u> </u>	$\downarrow \downarrow \checkmark$	ኻኻሾ		No	No		
<sup>1</sup> High capacity intersections are def	High capacity intersections are defined in the Sacramento County General Plan and may include grade separations, additional turn lanes, and/or other features as deemed appropriate by the County.													
<sup>2</sup> Alternative mitigations represent p	roposed mitiga	ations beyond	the Genera	l Plan, exclud	ing high capa	acity intersed	ctions, as propo	osed by the C	ounty of Sac	ramento.				
# Table 4.15Existing Plus FOUR PROJECTS Functionality Mitigations

		Seg	ment		Existing + FO	UR PROJECT	S		Impost offer
ID	Roadway	From	То	Travel Lanes	Substandard? <sup>1</sup>	Forecasted Volume	Functionality Impact? <sup>2</sup>	Mitigation	Mitigation?
15	Douglas Rd	Mather Blvd	Zinfandel Dr	2	Yes	12,160	Yes	Widen to County standards <sup>5</sup>	No
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	2	Yes	11,450	Yes	Widen to County standards <sup>5</sup>	No
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	4	No	12,100	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
20	Eagles Nest Rd	Jackson Rd	Florin Rd	2	Yes	8,250	Yes	Widen to County standards <sup>5</sup>	No
25	Elder Creek Rd	South Watt Ave	Hedge Ave	2	Yes	26,320	Yes	Widen to County standards <sup>5</sup>	No
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	2	Yes	25,670	Yes	Widen to County standards <sup>5</sup>	No
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	3	No	15,260	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd	3	No	23,810	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
30	Excelsior Rd	Kiefer Blvd	Jackson Rd	2	Yes	25,010	Yes	Widen to County standards <sup>5</sup>	No
31	Excelsior Rd	Jackson Rd	Elder Creek Rd	3	No	30,490	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
32	Excelsior Rd	Elder Creek Rd	Florin Rd	3	No	11,610	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
33	Excelsior Rd	Florin Rd	Gerber Rd	2	Yes	14,730	Yes	Widen to County standards <sup>5</sup>	No
34	Excelsior Rd	Gerber Rd	Calvine Rd	2	Yes	11,350	Yes	Widen to County standards <sup>5</sup>	No
39	Florin Rd	South Watt Ave	Hedge Ave	2	Yes	18,340	Yes	Widen to County standards <sup>5</sup>	No
40	Florin Rd	Hedge Ave	Mayhew Rd	2	Yes	14,890	Yes	Widen to County standards <sup>5</sup>	No
41	Florin Rd	Mayhew Rd	Bradshaw Rd	2	Yes	15,190	Yes	Widen to County standards <sup>5</sup>	No
42	Florin Rd	Bradshaw Rd	Excelsior Rd	2	Yes	17,150	Yes	Widen to County standards <sup>5</sup>	No
43	Florin Rd	Excelsior Rd	Sunrise Blvd	2	Yes	8,750	Yes	Widen to County standards <sup>5</sup>	No
48	Fruitridge Rd	South Watt Ave	Hedge Ave	3	No	17,250	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
49	Fruitridge Rd	Hedge Ave	Mayhew Rd	4	No	20,950	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
50	Grant Line Rd	White Rock Rd	Douglas Rd	2	Yes	8,980	Yes	Widen to County standards <sup>5</sup>	No
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	4	No	26,210	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
59	Hedge Ave	Jackson Rd	Fruitridge Rd	2	Yes	8,750	Yes	Widen to County standards <sup>5</sup>	No
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	6	No	51,570	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	4	No	47,230	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	2	Yes	6,900	Yes	Widen to County standards <sup>5</sup>	No

Red text with light gray shading indicate project impacts.



## Table 4.15Existing Plus FOUR PROJECTS Functionality Mitigations

	Segment				Existing + FOUR PROJECTS			Impost o	Impact offer
ID	Roadway	From	То	Travel Lanes	Substandard? <sup>1</sup>	Forecasted Volume	Functionality Impact? <sup>2</sup>	Mitigation	Mitigation?
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	6	No	49,480	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	3	No	12,540	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd	2	Yes	16,410	Yes	Widen to County standards <sup>5</sup>	No
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	4	No	36,540	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	2	Yes	23,220	Yes	Widen to County standards <sup>5</sup>	No

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

<sup>2</sup> Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT. <sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to

 $^{3}$  The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway a the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.

**Red** text with light gray shading indicate project impacts.



#### 4.5.3 Existing Plus FOUR PROJECTS U.S. 50 Freeway Mitigation

According to Caltrans' US-50 Transportation Concept Report (TCR) and Corridor System Management Plan (CSMP), all mainline freeway lanes of the 8-lane ultimate facility (4 lanes in each direction) have already been built, with the exception of the segment between Zinfandel Drive and Sunrise Boulevard (where 6 of the 8 ultimate lanes exist today). With the exception of this segment, capacity improvements to widen the freeway mainline are precluded by the ultimate configuration in the TCR/CSMP. The TCR/CSMP does conceptualize other projects that will benefit the US-50 corridor without adding additional mainline travel lanes. These improvements generally fall into one of three categories:

- Intelligent transportation systems (ITS) and integrated corridor management (ICM) projects. Some examples may include ramp metering and multimodal improvements.
- Improvements to parallel local facilities. Such projects are expected to reduce travel demand on US-50.
- Future HOV lanes and auxiliary lanes. These projects would extend, or bridge gaps in, the existing HOV and auxiliary lane network. Constructing these lanes is permissible even when further widening of the mainline is not allowable, and is consistent with the ultimate configuration in the TCR/CSMP.

The FOUR PROJECTS shall participate in one or more of these alternative improvements that could directly reduce the severity of the project's impact and/or provide operational benefits to the US-50 corridor in general.

#### 4.5.3.1 US-50 Eastbound Alternative Improvements

To lessen the impact to the eastbound US-50 mainline between Stockton Boulevard and 59th Street, the project may pay a fair share toward the construction of:

• Ramp meter improvements (Caltrans ITS/OPS Project List)

To lessen the impact to the eastbound US-50 weave between 65th Street and Howe Avenue, the project may pay a fair share toward the construction of:

- Ramp meter improvements (Caltrans ITS/OPS Project List)
- Widen 65th Street to 5 lanes from US-50 to Broadway (2035 SACOG MTP)

To lessen the impact to the eastbound US-50 mainline between Bradshaw Road and Mather Field Road, and to the weave between Mather Field Road to Zinfandel Drive, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Bradshaw Road and Mather Field Road (2035 SACOG MTP)
- An interchange modification of US-50 at Mather Field Road (2035 SACOG MTP)

To lessen the impact to the eastbound US-50 mainline between Zinfandel Drive and Hazel Avenue, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Zinfandel Drive and Sunrise Boulevard (2035 SACOG MTP)
- Auxiliary lanes between Sunrise Boulevard and Hazel Avenue (2035 SACOG MTP)
- Widen Sunrise Boulevard to 6 lanes with special treatments, including intersection improvements at White Rock Road, Folsom Boulevard, Coloma Road, Gold Express Drive, and Gold Country Boulevard (2035 SACOG MTP)

- A new interchange at Rancho Cordova Parkway, including a 4-lane arterial from US-50 to White Rock Road (2035 SACOG MTP)
- Multi-modal corridor improvements and interchange improvements at Hazel Avenue (2035 SACOG MTP)

#### 4.5.3.2 US-50 Westbound Alternative Improvements

To lessen the impact to the westbound US-50 on-ramp at Sunrise Boulevard, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Sunrise Boulevard and Zinfandel Drive (2035 SACOG MTP)
- A transition lane from the Sunrise Boulevard slip off-ramp to the Sunrise Boulevard slip on-ramp (2035 SACOG MTP)

To lessen the impact to the westbound US-50 mainline between Mather Field Road and Bradshaw Road, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Mather Field Road and Bradshaw Road (2035 SACOG MTP)
- An interchange modification of US-50 at Mather Field Road (2035 SACOG MTP)

To lessen the impact to the westbound US-50 mainline between Watt Avenue and SR-51/SR-99, the project may pay a fair share toward the construction of:

- Bus/HOV lanes from Watt Avenue to Downtown Sacramento (2035 SACOG MTP)
- Replacement of existing communication lines with fiber optics to improve performance between SR-51/SR-99 and Watt Avenue (2013 10-Year SHOPP Plan)
- Auxiliary lane between the NB Howe Avenue on-ramp and the SB Howe Avenue on-ramp (2035 SACOG MTP)
- Ramp meter improvements (Caltrans ITS/OPS Project List)

#### 4.5.4 Existing Plus FOUR PROJECTS Pedestrian and Bicycle Facility Mitigation

The FOUR PROJECTS applicants shall coordinate with Sacramento County to identify the necessary on- and off-site pedestrian and bicycle facilities to serve the proposed development. These facilities shall be incorporated into the FOUR PROJECTS and could include sidewalks, stop signs, standard pedestrian and school crossing warning signs, lane striping to provide a bicycle lane, bicycle parking, signs to identify pedestrian and bicycle paths, raised crosswalks, pedestrian signal heads, and all appropriate traffic calming measures as defined in the County's Neighborhood Traffic Management Program (NTMP). Sidewalks would be required as part of the frontage improvements along all new roadway construction in the FOUR PROJECTS vicinity in conformance with County design standards. Circulation and access to all proposed public spaces shall include sidewalks that meet Americans with Disabilities Act standards.

#### 4.5.5 Existing Plus FOUR PROJECTS Transit System Mitigation

The applicants of the FOUR PROJECTS shall coordinate with Regional Transit (or other transit operators) to provide the additional transit facilities and services assumed in transportation analysis (see Section 3.1.2.3), or a cost-effective equivalent level of transit facilities and services.

The assumed transit routes and service frequency would be required at full development of the FOUR PROJECTS. The full level of transit service would not achieve adequate transit ridership during the early stages of development. Thus the ultimate transit service, like the roadway system serving the FOUR PROJECTS, must be phased with development of the FOUR PROJECTS.

#### 4.5.6 Existing Plus FOUR PROJECTS Functionality Mitigation

Table 4.15 summarizes the results of the functionality analysis for the study area rural roadway segments with mitigation.

#### 4.4.7 Existing Plus FOUR PROJECTS Mitigation Summary

Tables 4.16 through 4.21 summarize all of the roadway segments, intersections, and freeway facilities that would exhibit significant LOS impacts along with the mitigation success for these impacts.

## Table 4.16 Existing Plus FOUR PROJECTS Summary of Impacted Roadway Segments



ID	Deederer	Segment				
ID	Koadway	From	То			
	Level of Service Impa	t Fully Mitigated by General Plan Lanes				
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd			
24	Elder Creek Rd	Florin Perkins Rd	South Watt Ave			
25	Elder Creek Rd	South Watt Ave	Hedge Ave			
26	Elder Creek Rd	Hedge Ave	Mayhew Rd			
28.1	Elder Creek Rd	Bradshaw Rd	Vineyard Rd			
29	Elk Grove-Florin Rd	Florin Rd	Gerber Rd			
31.1	Excelsior Rd	Jackson Rd	Collector WJ-6			
31.2	Excelsior Rd	Collector WJ-6	Elder Creek Rd			
39	Florin Rd	South Watt Ave	Hedge Ave			
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave			
48	Fruitridge Rd	South Watt Ave	Hedge Ave			
55	Grant Line Rd	Calvine Rd	Sheldon Rd			
56	Grant Line Rd	Sheldon Rd	Wilton Rd			
57	Grant Line Rd	Wilton Rd	Bond Rd			
65	Jackson Rd	Folsom Blvd	Florin Perkins Rd			
71.1	Jackson Rd	Excelsior Rd	Collector JT-3			
73	Jackson Rd	Sunrise Blvd	Grant Line Rd			
89.1	Mayhew Rd	Jackson Rd	Rock Creek Pkwy			
92	Old Placerville Rd	Happy Ln	Routier Rd			
97	South Watt Ave	Kiefer Blvd	Jackson Rd			
99	South Watt Ave	Fruitridge Rd	Elder Creek Rd			
100	South Watt Ave	Elder Creek Rd	Florin Rd			
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd			
122	Zinfandel Dr	City Limit	Douglas Rd			
123.1	Zinfandel Dr	Douglas Rd	Collector MS-2			
200	Kiefer Blvd	Tree View Ln	Eagles Nest Rd			
405	Collector JT-3	Collector JT-5	Jackson Rd			
602	Collector MS-2	Eagles Nest Rd	Collector MS-5			
Level of Service Impact Not Fully Mitigated by General Plan Lanes						
2	Bradshaw Rd	US 50	Lincoln Village Dr			
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd			
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd			
5.1	Bradshaw Rd	Goethe Rd	Collector WJ-8			
5.2	Bradshaw Rd	Collector WJ-8	Kiefer Blvd			
6.1	Bradshaw Rd	Kiefer Blvd	Collector WJ-9			
6.2	Bradshaw Rd	Collector WJ-9	Mayhew Rd			

Note: Refer to Table 4.12 for detailed description of impacts and mitigations.

## Table 4.16 Existing Plus FOUR PROJECTS Summary of Impacted Roadway Segments



ID	Deedmon	Segment			
ID	Koadway	From	То		
44	Folsom Blvd	Howe Ave	Jackson Rd		
62	Howe Ave	US 50	Folsom Blvd		
66	Jackson Rd	Florin Perkins Rd	South Watt Ave		
67	Jackson Rd	South Watt Ave	Hedge Ave		
68.1	Jackson Rd	Hedge Ave	Collector WJ-3		
68.2	Jackson Rd	Collector WJ-3	Mayhew Rd		
69	Jackson Rd	Mayhew Rd	Bradshaw Rd		
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd		
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd		
96	South Watt Ave	Folsom Blvd	Kiefer Blvd		
110	Watt Ave	US 50	Folsom Blvd		
118	Zinfandel Dr	US 50	White Rock Rd		

Note: Refer to Table 4.12 for detailed description of impacts and mitigations.

Tabl Exis	Table 4.17 Existing Plus FOUR PROJECTS Summary of Impacted Intersections			
	Intersection	Alternative Mitigation		
	Level of Service Impact Fully Mitigated by General Plan Lanes			
6	Jackson Road/Notre Dame Dr. & Folsom Blvd.	**		
9	Florin Perkins Road & Jackson Road			
17	S. Watt Avenue & Fruitridge Road			
18	S. Watt Avenue & Elder Creek Road			
23	Hedge Avenue & Jackson Road	**		
27	Hedge Avenue & Florin Road			
31	Mayhew Road & Elder Creek Road	**		
39	Bradshaw Road & Elder Creek Road			
40	Bradshaw Road & Florin Road			
41	Bradshaw Road & Gerber Road			
42	Happy Lane & Old Placerville Road	**		
46	Excelsior Road & Elder Creek Road			
52	Mather Boulevard & Douglas Road			
61	Eagles Nest Road & Florin Road			
70	Sunrise Boulevard & Jackson Road			
80	Grant Line Road & Jackson Road			
90	Excelsior Road & Calvine Rd			
93	Grant Line Rd & Dwy/Wilton Rd			

Table 4.17         Intersection       Alternati Mitigation         Alternati Mitigation         Alternati Mitigation         Mayhew Road & Rock Creek Pkwy WB       Alternati Mitigation         Mayhew Road & Rock Creek Pkwy EB       Colspan="2">Colspan="2"         Colspan="2"        Colspan="2" <th co<="" th=""><th></th><th colspan="4"></th></th>	<th></th> <th colspan="4"></th>					
Intersection       Alternati         310       Mayhew Road & Rock Creek Pkwy WB       11         311       Mayhew Road & Rock Creek Pkwy EB       11         326       Happy Lane & Mayhew Road       11         326       Happy Lane & Mayhew Road       11         327       Vatt Avenue & Folsom Blvd.       11         12       Watt Avenue & Kiefer Blvd.       11         14       S. Watt Avenue & Kiefer Blvd.       11         15       S. Watt Avenue & Jackson Road       11         16       S. Watt Avenue & Jackson Road       11         28       Mayhew Road & Kiefer Boulevard       11         29       Mayhew Road & Kiefer Boulevard       11         30       Bradshaw Road & Kiefer Boulevard       11         310       Bradshaw Road & Kiefer Boulevard       11         311       Bradshaw Road & Kiefer Boulevard       11         312       Bradshaw Road & Kiefer Boulevard       11         313       Bradshaw Road & Kiefer Boulevard       11         314       Scelsior Road & Jackson Road       11         315       Excelsior Road & Ackiefer Boulevard       11         316       Bradshaw Road & Kiefer Boulevard       11         317       <	Tabl Exis	e 4.17 ting Plus FOUR PROJECTS Summary of Impacted Intersections				
310       Mayhew Road & Rock Creek Pkwy WB         311       Mayhew Road & Rock Creek Pkwy EB         326       Happy Lane & Mayhew Road         Level of Service Impact Not Fully Mitigated by General Plan Lanes But Designated High Capacity Intersection         12       Watt Avenue & Folsom Blvd.       **         14       S. Watt Avenue & Kiefer Blvd.       **         16       S. Watt Avenue & Kiefer Blvd.       **         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         28         Mayhew Road & Kiefer Boulevard       **         36         Bradshaw Road & Old Placerville Road       *         37       Bradshaw Road & Kiefer Boulevard       *         45       Excelsior Road & Jackson Road       **         51       Mather Field Road & Rockingham Drive       5         54       Zinfandel Drive & US 50 EB Ramps/Gold Center Drive       5		Intersection Alterna Mitigat				
311       Mayhew Road & Rock Creek Pkwy EB         326       Happy Lane & Mayhew Road         Level of Service Impact Not Fully Mitigated by General Plan Lanes But Designated High Capacity Intersection         12       Watt Avenue & Folsom Blvd.       **         14       S. Watt Avenue & Kiefer Blvd.       **         16       S. Watt Avenue & Jackson Road       **         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated by General Plan Lanes         Level of Service Impact Not Fully Mitigated By General Plan Lanes         Service Impact Not Fully Mitigated By General Plan Lanes         Level of Service Impact Not Fully Mitigated By General Plan Lanes         Service Impact Not Fully Mitigated By General Plan Lanes         Service Impact Not Fully Mitigated By General Plan Lanes	310	Mayhew Road & Rock Creek Pkwy WB				
326       Happy Lane & Mayhew Road       Image: Constraint of Con	311	Mayhew Road & Rock Creek Pkwy EB				
Level of Service Impact Not Fully Mitigated by General Plan Lanes But Designated High Capacity Intersection         12       Watt Avenue & Folsom Blvd.       **         14       S. Watt Avenue & Kiefer Blvd.       **         16       S. Watt Avenue & Jackson Road       **         Level of Service Impact Not Fully Mitigated by General Plan Lanes         28 Mayhew Road & Kiefer Boulevard         28       Mayhew Road & Kiefer Boulevard       **         36       Bradshaw Road & Old Placerville Road       **         37       Bradshaw Road & Kiefer Boulevard       *         45       Excelsior Road & Jackson Road       **         51       Mather Field Road & Rockingham Drive       **         54       Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	326	Happy Lane & Mayhew Road				
12       Watt Avenue & Folsom Blvd.       **         14       S. Watt Avenue & Kiefer Blvd.       **         16       S. Watt Avenue & Jackson Road       **         Level of Service Impact Not Fully Mitigated by General Plan Lanes         28       Mayhew Road & Kiefer Boulevard       **         36       Bradshaw Road & Old Placerville Road       *         37       Bradshaw Road & Kiefer Boulevard       *         45       Excelsior Road & Jackson Road       **         51       Mather Field Road & Rockingham Drive       **         54       Zinfandel Drive & US 50 EB Ramps/Gold Center Drive       *		Level of Service Impact Not Fully Mitigated by General Plan Lanes But Designated High Capacity Intersection				
14       S. Watt Avenue & Kiefer Blvd.       **         16       S. Watt Avenue & Jackson Road       **         Level of Service Impact Not Fully Mitigated by General Plan Lanes         28       Mayhew Road & Kiefer Boulevard       **         36       Bradshaw Road & Old Placerville Road       **         37       Bradshaw Road & Kiefer Boulevard       *         45       Excelsior Road & Jackson Road       **         51       Mather Field Road & Rockingham Drive       **         54       Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	12	Watt Avenue & Folsom Blvd.	**			
16       S. Watt Avenue & Jackson Road       **         Level of Service Impact Not Fully Mitigated by General Plan Lanes         28       Mayhew Road & Kiefer Boulevard       **         36       Bradshaw Road & Old Placerville Road       *         37       Bradshaw Road & Kiefer Boulevard       *         45       Excelsior Road & Jackson Road       **         51       Mather Field Road & Rockingham Drive       *         54       Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	14	S. Watt Avenue & Kiefer Blvd.	**			
Level of Service Impact Not Fully Mitigated by General Plan Lanes         28       Mayhew Road & Kiefer Boulevard       **         36       Bradshaw Road & Old Placerville Road       *         37       Bradshaw Road & Kiefer Boulevard       *         45       Excelsior Road & Jackson Road       **         51       Mather Field Road & Rockingham Drive       54         28       Zinfandel Drive & US 50 EB Ramps/Gold Center Drive       **	16	16 S. Watt Avenue & Jackson Road				
28Mayhew Road & Kiefer Boulevard**36Bradshaw Road & Old Placerville Road37Bradshaw Road & Kiefer Boulevard*45Excelsior Road & Jackson Road**51Mather Field Road & Rockingham Drive54Zinfandel Drive & US 50 EB Ramps/Gold Center Drive		Level of Service Impact Not Fully Mitigated by General Plan Lanes				
36Bradshaw Road & Old Placerville Road37Bradshaw Road & Kiefer Boulevard*45Excelsior Road & Jackson Road**51Mather Field Road & Rockingham Drive5454Zinfandel Drive & US 50 EB Ramps/Gold Center Drive54	28	Mayhew Road & Kiefer Boulevard	**			
37Bradshaw Road & Kiefer Boulevard*45Excelsior Road & Jackson Road**51Mather Field Road & Rockingham Drive54Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	36	Bradshaw Road & Old Placerville Road				
45       Excelsior Road & Jackson Road       **         51       Mather Field Road & Rockingham Drive	37	Bradshaw Road & Kiefer Boulevard	*			
51       Mather Field Road & Rockingham Drive         54       Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	45	Excelsior Road & Jackson Road	**			
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	51	Mather Field Road & Rockingham Drive				
	54	Zinfandel Drive & US 50 EB Ramps/Gold Center Drive				
318 Bradshaw Road & Mayhew Road *	318					
<sup>1</sup> Alternative mitigations represent proposed mitigations beyond the General Plan, excluding designated high capacity intersections, as proposed by the County of Sacramento.	<sup>1</sup> Alt high					

\*\* denotes alternative mitigations that fully mitigate the impact.

## Table 4.18

## Existing Plus FOUR PROJECTS Summary of Impacted Freeway Segments

Direction	Location				
Level of Service Impact Not Mitigated					
Stockton Boulevard to 59th Street					
Eastbound	Bradshaw Road to Mather Field Rd				
US-50	Zinfandel Drive to Sunrise Boulevard				
	Sunrise Boulevard to Hazel Avenue				
	Mather Field Road to Bradshaw Road				
	Howe Avenue to 65th Street				
Westbound US-50	65th Street to 59th Street				
0000	59th Street to Stockton Boulevard				
	Stockton Boulevard to SR 99 / SR 51				
Source: DKS Asso	ciates, 2014.				

Table 4.19 Existing Plus FOUR PROJECTS Summary of Impacted Freeway Ramp Junction/Weaves						
Direction Location Junction Type						
Level of Service Impact Not Mitigated						
	Northbound 65th Street Slip Entrance	Waaya				
Eastbound	Howe Avenue / Hornet Drive Exit	weave				
US-50	Northbound Mather Field Road Slip Entrance	Weene				
	Zinfandel Drive Exit	weave				
Westbound US-50	Sunrise Boulevard Entrance	Lane Addition				
Source: DKS Associates, 2014.						

Table 4.20 Existing Plus FOUR PROJECTS Summary of Impacted Freeway Ramp Termini				
Direction US 50 Exit Ramp				
Queuing Impact Not Mitigated				
Eastbound US-50	Howe Avenue			
Source: DKS Associates, 2014.				

## Table 4.21Existing Plus FOUR PROJECTS Functionality Impact Summary



		Segment					
ID	Roadway	From	То				
	Functionality Impact Fully Mitigated						
15	Douglas Rd	Mather Blvd	Zinfandel Dr				
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd				
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd				
20	Eagles Nest Rd	Jackson Rd	Florin Rd				
25	Elder Creek Rd	South Watt Ave	Hedge Ave				
26	Elder Creek Rd	Hedge Ave	Mayhew Rd				
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd				
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd				
30	Excelsior Rd	Kiefer Blvd	Jackson Rd				
31	Excelsior Rd	Jackson Rd	Elder Creek Rd				
32	Excelsior Rd	Elder Creek Rd	Florin Rd				
33	Excelsior Rd	Florin Rd	Gerber Rd				
34	Excelsior Rd	Gerber Rd	Calvine Rd				
39	Florin Rd	South Watt Ave	Hedge Ave				
40	Florin Rd	Hedge Ave	Mayhew Rd				
41	Florin Rd	Mayhew Rd	Bradshaw Rd				
42	Florin Rd	Bradshaw Rd	Excelsior Rd				
43	Florin Rd	Excelsior Rd	Sunrise Blvd				
48	Fruitridge Rd	South Watt Ave	Hedge Ave				
49	Fruitridge Rd	Hedge Ave	Mayhew Rd				
50	Grant Line Rd	White Rock Rd	Douglas Rd				
58	Happy Ln	Old Placerville Rd	Kiefer Blvd				
59	Hedge Ave	Jackson Rd	Fruitridge Rd				
70	Jackson Rd	Bradshaw Rd	Excelsior Rd				
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd				

# Table 4.21Existing Plus FOUR PROJECTS Functionality Impact Summary



		Segment			
ID	Roadway	From	То		
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave		
77	Kiefer Blvd	Bradshaw Rd	Happy Ln		
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd		
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd		
89	Mayhew Rd	Jackson Rd	Fruitridge Rd		
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd		

### 5. MTP CUMULATIVE PLUS FOUR PROJECTS SCENARIO

#### 5.1 FOUR PROJECTS DESCRIPTION

The MTP Cumulative plus FOUR PROJECTS scenario evaluates the effects of the traffic of four developments (the FOUR PROJECTS) added to MTP Cumulative conditions.

#### 5.1.1 MTP Cumulative Land Use

Outside the FOUR PROJECTS, SACOG's 2035 development forecasts (the amount and location of housing and employment) for the adopted 2012 Metropolitan Transportation Plan (MTP) were used to prepare travel demand forecasts for this scenario.

#### 5.1.2 Transportation Network

#### 5.1.2.1 Roadways

Figure 5.1 illustrates the transportation network associated with the MTP Cumulative without FOUR PROJECTS scenario, consisting of the improvements in the adopted 2012 Metropolitan Transportation Plan (MTP).

Figure 5.2 shows the transportation network associated with the MTP Cumulative with FOUR PROJECTS scenario. The FOUR PROJECTS would widen and / or complete many roadways that cross or border the PROJECT site. The FOUR PROJECTS would include new roadways to serve the proposed land use.

#### 5.1.2.2 Pedestrian and Bicycle Facilities

The roadways within the FOUR PROJECTS would meet County standards, which would provide sidewalks and on-street (Class II) bike lanes on all collector, arterial and thoroughfare roadways. The FOUR PROJECTS also provide several off-street (Class I) multi-purpose trails.

#### 5.1.2.3 Transit System

The FOUR PROJECTS are designed with significant amounts of higher density and mixed uses to help support transit use but transit service within walking distances of those uses is required to achieve a significant transit ridership.

An accurate estimation of transit use requires the definition of specific transit routes and frequency of service on those routes. A separate planning effort, involving staff from Sacramento County and Sacramento Regional Transit (RT), was conducted to define an appropriate transit system for the transportation analysis. That effort is described in Section 3.1.2.3.



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## FIGURE 5.1 MTP CUMULATIVE NO PROJECT ROADWAY NETWORK

## Legend







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### FIGURE 5.2 MTP CUM PLUS FOUR PROJECTS ROADWAY NETWORK

### Legend





The planning effort resulted in four transit lines that would serve the FOUR PROJECTS at a frequency of 15 minutes throughout the typical operating hours (approximately 6 AM to 8 PM) on weekdays. Another key characteristic of the proposed transit system built into the modeling assumptions is the targeted use of queue jumps on portions of key corridors (Bradshaw Road from Kiefer Boulevard to Rock Creek Parkway, and Jackson Road from Watt Avenue to Excelsior Road). Queue jumps ensure that buses are not excessively delayed at signals along congested corridors, and therefore not too heavily penalized from a travel time perspective. This is necessary to achieve the adequate ridership levels that were forecast and ensure reliable operations. Figure 5.3 shows the assumed transit routes for this scenario.

The assumed transit routes, service frequency, and supporting infrastructure (i.e. queue jumps) would be required at full development of the FOUR PROJECTS. The full level of transit service would not achieve adequate transit ridership during the early stages of development. Thus the ultimate transit service, like the roadway system serving the FOUR PROJECTS, must be phased with development of the FOUR PROJECTS.

#### 5.2 TRIP GENERATION

The SACSIM model that has been utilized for the transportation forecasts in this analysis estimated trip generation of the FOUR PROJECTS. Table 5.1 summarizes the person trip generation. The FOUR PROJECTS would generate over 108,000 daily work person trip ends, and over 885,000 daily person trip ends for all trip purposes.

Table 5.2 summarizes the estimated mode choice for the MTP plus FOUR PROJECTS scenario. Over 89 percent of all person trips are expected to be accommodated by automobile. Transit will serve about 2.3 percent of all trips, while walk and bike modes will accommodate about 7.7 percent of all trips. The mode choice assumes full implementation of the project's pedestrian and bicycle systems.

Table 5.3 summarizes the vehicular (auto) trip generation of the FOUR PROJECTS. The FOUR PROJECTS are estimated to generate over 641,000 daily vehicle trip ends. About 44,000 of the daily vehicle trip ends will be associated with trips with both an origin and destination within the individual projects, about 14 percent of the trip ends. The internal trip ends represent about 22,000 daily vehicle trips (one-half the number of internal trip ends). The FOUR PROJECTS will generate about 553,500 external vehicle trips that have an origin or destination inside one of the FOUR PROJECTS but the other end of the trip is outside the project from which it originated. Table 5.3 also shows the vehicle trips generated during the a.m. and p.m. peak hours.

#### 5.3 **TRIP DISTRIBUTION**

The distribution of trips associated with development of the FOUR PROJECTS was derived utilizing SACSIM, incorporating the proposed land use and access locations associated with the FOUR PROJECTS. Trip distribution varies by land use and time period. Figure 5.4 illustrates the overall trip distribution of daily FOUR PROJECTS trips with the MTP Plus FOUR PROJECTS scenario. The highest percentages of FOUR PROJECTS traffic are accommodated on Jackson Road, Bradshaw Road, Kiefer Boulevard, and Vineyard Road.

#### Table 5.1: Estimated Daily Person Trip Generation (MTP Cumulative)

#### FOUR PROJECTS

Trip Purpose	Daily Person Trip Ends
Work Trips	108,203
Non-Work Trips	777,490
All Trip Purposes	885,692
Source: DKS Associates, 2014.	

#### Table 5.2: Mode Split (MTP Cumulative)

#### FOUR PROJECTS

	Percenta	age of Person Trips by T	rip Purpose
Mode	Work Trips	Non-Work Trips	All Trip Purposes
Auto - SOV	83.0%	49.1%	53.2%
Auto - HOV	10.4%	40.4%	36.7%
Transit	4.1%	2.1%	2.3%
Walk	1.8%	7.6%	6.9%
Bike	0.8%	0.8%	0.8%
Source: DKS Associates, 2	014.		

#### Table 5.3: Estimated Daily Vehicle Trip Generation (MTP Cumulative)

#### FOUR PROJECTS

Т	гір Туре	AM Peak Hour	PM Peak Hour	Daily
Total Ve	ehicle Trip Ends	47,742	79,384	604,517
Percent In	nternal Trip Ends <sup>1</sup>	22.6%	30.6%	26.1%
	Internal to Projects	5,403	12,165	79,002
Vehicle Trips	External to Projects	36,936	55,054	446,501
	Total	42,339	67,219	525,503
<sup>1.</sup> Both trip end	s within individual proj	ects.		

Source: DKS Associates, 2014.

#### 5.4 **OPERATIONS ANALYSIS AND IMPACTS**

Cumulative scenario impacts are determined by comparing the traffic operating conditions associated with the FOUR PROJECTS with the traffic operating conditions associated with the cumulative (without FOUR PROJECTS) conditions, and comparing the change to the thresholds of significance. Figure 5.5 illustrates the resultant traffic operating conditions associated with the MTP Cumulative (without FOUR PROJECTS) scenario. Figure 5.6 illustrates the resultant traffic operating conditions associated with the MTP Cumulative (without FOUR PROJECTS) scenario. Figure 5.6 illustrates the resultant traffic operating conditions associated with the MTP Cumulative (without FOUR PROJECTS) scenario.

#### 5.4.1 MTP Cumulative Plus FOUR PROJECTS Roadway Segment Impacts

Table 5.4 summarizes the results of the operations analysis for the study area roadway segments. The table includes the number of lanes assumed with the implementation of the FOUR PROJECTS. The shaded table cells under the "Travel Lanes" and "Facility Type" headings illustrate new roadways or widened roadways. The last column of the table shows the project(s) responsible for the increase in the number of roadway lanes. The shaded table cells under the "Level of Service" heading indicate those locations with an LOS impact.

#### 5.4.2 MTP Cumulative Plus FOUR PROJECTS Intersection Impacts

Table 5.5 and 5.6 summarize the results of the operations analysis for the study area intersections. The tables include the implementation of intersection changes associated with the FOUR PROJECTS. Table 5.6 illustrates the type of traffic control and number of lanes by type on each study area intersection approach. Shaded table cells indicate those locations where changes in traffic control and / or number of approach lanes by type would be fully funded by the project(s) shown in the last column. Shaded table cells in Table 5.5 illustrate those locations with an LOS impact. Detailed analysis information is included in the technical appendix.

Signal warrant analysis was conducted for all unsignalized intersections along Jackson Road, and other unsignalized intersections in close proximity to the project. The project is considered to have a significant impact at an unsignalized location if both the impact criteria in Table 1.6 are met, and one or more of the signal warrants specified in the California Manual on Uniform Traffic Control Devices (CAMUTCD) are met. Detailed signal warrant calculation sheets are included in the technical appendix. The following unsignalized intersections exhibit significant impacts and meet one or more traffic signal warrants:

- Zinfandel Drive and Woodring Drive
- Happy Lane and Old Placerville Road
- Eagles Nest Road and Florin Road



## FIGURE 5.3 PROJECT TRANSIT NETWORK MTP CUM PLUS FOUR PROJECTS

## Legend

Jackson Express Route (JEX)

- Kiefer Jackson Local Route (KJL)
- Rock Creek Parkway Route (RCPK)
  - West Jackson Local Shuttle (WJL)



Cities

Mather Airport





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### FIGURE 5.4 **MTP CUM PLUS FOUR PROJECTS** FOUR PROJECTS TRIP DISTRIBUTION

## Legend







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### FIGURE 5.5 MTP CUMULATIVE NO PROJECT ROADWAY SEGMENT AND INTERSECTION LOS AND IMPACTS

## Legend

### Intersections (AM Peak Hour)

- LOS A-D
- LOS E
- LOS F

### Intersections (PM Peak Hour)

- LOS A-D
- LOS E
- LOS F

### **Roadway Segments**

- LOS A-D
- LOS E
- LOS F
- Cities
  - Mather Airport





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### FIGURE 5.6 MTP CUM PLUS FOUR PROJECTS ROADWAY SEGMENT AND INTERSECTION LOS AND IMPACTS

## Legend

### Intersections (AM Peak Hour)

- LOS A-D
- los e
- LOS F

### Intersections (PM Peak Hour)

- LOS A-D
- LOS E
- LOS F
- Mitigable Intersection Impact
  - Unavoidable Intersection Impact

### **Roadway Segments**

- LOS A-D
- LOS E
- LOS F

### Impacts

- Unavoidable Segment Impact
- IIIII Mitigable Segment Impact



Mather Airport



		Seg	ment	MTP Cumulative No Project						MTP Cumu	lative + FOUF	R PROJECTS	5	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
1	Bradshaw Rd	Folsom Blvd	US 50	6	Arterial M	25,970	0.48	А	6	Arterial M	23,720	0.44	А	
2	Bradshaw Rd	US 50	Lincoln Village Dr	6	Arterial M	63,640	1.18	F	6	Arterial M	85,970	1.59	F	
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd	6	Arterial M	49,490	0.92	Ε	6	Arterial M	78,400	1.45	F	
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd	6	Arterial M	56,990	1.06	F	6	Arterial M	76,540	1.42	F	
5.1	Bradshaw Rd	Goethe Rd	Collector WJ-8	6	Arterial M	40,840	0.76	С	6	Arterial M	65,320	1.21	F	
5.2	Bradshaw Rd	Collector WJ-8	Kiefer Blvd	6	Arterial M	39,170	0.73	С	6	Arterial M	60,740	1.12	F	
6.1	Bradshaw Rd	Kiefer Blvd	Collector WJ-9	6	Arterial M	44,220	0.82	D	6	Arterial M	64,280	1.19	F	
6.2	Bradshaw Rd	Collector WJ-9	Mayhew Rd	6	Arterial M	45,020	0.83	D	6	Arterial M	62,160	1.15	F	
6.3	Bradshaw Rd	Mayhew Rd	Jackson Rd	6	Arterial M	44,980	0.83	D	6	Arterial M	39,710	0.74	С	
7.1	Bradshaw Rd	Jackson Rd	Rock Creek Pkwy	6	Arterial M	38,130	0.71	С	6	Arterial M	39,890	0.74	С	
7.2	Bradshaw Rd	Rock Creek Pkwy	Collector WJ-10	6	Arterial M	38,130	0.71	С	6	Arterial M	44,390	0.82	D	
7.3	Bradshaw Rd	Collector WJ-10	Collector WJ-11	6	Arterial M	38,300	0.71	С	6	Arterial M	40,470	0.75	С	
7.4	Bradshaw Rd	Collector WJ-11	Elder Creek Rd	6	Arterial M	38,110	0.71	С	6	Arterial M	38,110	0.71	С	
8	Bradshaw Rd	Elder Creek Rd	Florin Rd	6	Arterial M	38,690	0.72	С	6	Arterial M	43,780	0.81	D	
9	Bradshaw Rd	Florin Rd	Gerber Rd	6	Arterial M	36,340	0.67	В	6	Arterial M	45,090	0.84	D	
10	Bradshaw Rd	Gerber Rd	Calvine Rd	6	Arterial M	27,420	0.51	А	6	Arterial M	33,330	0.62	В	
11	Calvine Rd	Waterman Rd	Bradshaw Rd	6	Arterial M	14,540	0.27	А	6	Arterial M	14,150	0.26	А	
12	Calvine Rd	Bradshaw Rd	Vineyard Rd	6	Arterial M	11,570	0.21	А	6	Arterial M	11,510	0.21	А	
13	Calvine Rd	Vineyard Rd	Excelsior Rd	4	Arterial M	5,470	0.15	А	4	Arterial M	5,460	0.15	А	
14	Chrysanthy Blvd	Sunrise Blvd	Rancho Cordova Pkwy	4	Arterial M	6,190	0.17	А	4	Arterial M	13,110	0.36	А	
15	Douglas Rd	Mather Blvd	Zinfandel Dr	4	Arterial M	15,600	0.43	А	4	Arterial M	30,940	0.86	D	
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	6	Arterial M	28,550	0.53	А	6	Arterial M	39,820	0.74	С	
17	Douglas Rd	Sunrise Blvd	Rancho Cordova Pkwy	5	Arterial M	35,080	0.97	Е	5	Arterial M	28,260	0.79	С	
18.1	Douglas Rd	Rancho Cordova Pkwy	Americanos Blvd	5	Arterial M	29,920	0.83	D	5	Arterial M	22,850	0.63	В	
18.2	Douglas Rd	Americanos Blvd	Grant Line Rd	5	Arterial M	7,100	0.20	А	5	Arterial M	7,220	0.20	А	
19.1	Eagles Nest Rd	Kiefer Blvd	N Bridgewater Dr	2	Arterial M	6,080	0.34	А	4	Arterial M	13,030	0.36	А	NewBridge
19.2	Eagles Nest Rd	N Bridgewater Dr	S Bridgewater Dr	2	Arterial M	6,080	0.34	А	4	Arterial M	13,210	0.37	А	NewBridge
19.3	Eagles Nest Rd	S Bridgewater Dr	Jackson Rd	2	Arterial M	6,200	0.34	А	4	Arterial M	13,460	0.37	А	NewBridge
20	Eagles Nest Rd	Jackson Rd	Florin Rd	2	Arterial M	4530	0.25	А	2	Arterial M	9590	0.53	А	
21	Eagles Nest Rd	Florin Rd	Grant Line Rd	2	Arterial M	4020	0.22	А	2	Arterial M	5590	0.31	А	
22	Elder Creek Rd	65th St	Power Inn Rd	4	Arterial M	21,830	0.61	В	4	Arterial M	27,440	0.76	C	
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd	2	Arterial M	22,340	1.24	F	2	Arterial M	27,780	1.54	F	
24	Elder Creek Rd	Florin Perkins Rd	South Watt Ave	4	Arterial M	21,190	0.59	A	4	Arterial M	28,120	0.78	С	



		Segi	ment	MTP Cumulative No Project         MTP Cumulative + FOUR PROJECTS						5				
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
25	Elder Creek Rd	South Watt Ave	Hedge Ave	2	Arterial M	17,500	0.97	Е	2	Arterial M	43,150	2.40	F	
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	2	Arterial M	20,280	1.13	F	2	Arterial M	43,640	2.42	F	
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	2	Arterial M	3,720	0.21	А	3	Arterial M	17,180	0.95	Е	West Jackson
28.1	Elder Creek Rd	Bradshaw Rd	Vineyard Rd	2	Arterial M	5,130	0.29	А	3	Arterial M	27,790	1.54	F	West Jackson
28.2	Elder Creek Rd	Vineyard Rd	Excelsior Rd	2	Arterial M	5,040	0.28	А	4	Arterial M	25,470	0.71	С	West Jackson
29	Elk Grove-Florin Rd	Florin Rd	Gerber Rd	2	Arterial M	27,340	1.52	F	2	Arterial M	26,630	1.48	F	
30.1	Excelsior Rd	Kiefer Blvd	Douglas Rd	2	Arterial M	6,120	0.34	А	2	Arterial M	10,920	0.61	В	
30.2	Excelsior Rd	Douglas Rd	Collector WJ-1/ Collector JT-1	4	Arterial M	8,140	0.23	А	4	Arterial M	29,040	0.81	D	
30.3	Excelsior Rd	Collector WJ-1/ Collector JT-1	Collector WJ-2/ Collector JT-2	4	Arterial M	8,570	0.24	А	4	Arterial M	27,120	0.75	С	
30.4	Excelsior Rd	Collector WJ-2/ Collector JT-2	Jackson Rd	4	Arterial M	8,570	0.24	А	4	Arterial M	27,730	0.77	С	
31.1	Excelsior Rd	Jackson Rd	Collector WJ-6	2	Arterial M	9,190	0.51	А	3	Arterial M	35,350	1.96	F	West Jackson
31.2	Excelsior Rd	Collector WJ-6	Elder Creek Rd	2	Arterial M	9,190	0.51	А	3	Arterial M	35,140	1.95	F	West Jackson
32	Excelsior Rd	Elder Creek Rd	Florin Rd	2	Arterial M	4,980	0.28	А	3	Arterial M	11,870	0.66	В	West Jackson
33	Excelsior Rd	Florin Rd	Gerber Rd	2	Arterial M	6,960	0.39	Α	2	Arterial M	14,310	0.80	С	
34	Excelsior Rd	Gerber Rd	Calvine Rd	2	Arterial M	3,990	0.22	Α	2	Arterial M	8,990	0.50	А	
35	Excelsior Rd	Calvine Rd	Sheldon Rd	2	Arterial M	4,910	0.27	Α	2	Arterial M	9,330	0.52	А	
36	Florin Rd	Stockton Blvd	Power Inn Rd	4	Arterial M	33,990	0.94	Е	4	Arterial M	38,590	1.07	F	
37	Florin Rd	Power Inn Rd	Florin-Perkins Rd	4	Arterial M	33,140	0.92	Е	4	Arterial M	39,640	1.10	F	
38	Florin Rd	Florin-Perkins Rd	So Watt Ave/ Elk Grove Florin Rd	4	Arterial M	17,080	0.47	А	4	Arterial M	23,480	0.65	В	
39	Florin Rd	South Watt Ave	Hedge Ave	4	Arterial M	9,900	0.28	Α	4	Arterial M	9,410	0.26	А	
40	Florin Rd	Hedge Ave	Mayhew Rd	4	Arterial M	11,300	0.31	А	4	Arterial M	9,160	0.25	А	
41	Florin Rd	Mayhew Rd	Bradshaw Rd	4	Arterial M	21,540	0.60	Α	4	Arterial M	32,310	0.90	D	
42.1	Florin Rd	Bradshaw Rd	Vineyard Rd	4	Arterial M	4,930	0.14	Α	4	Arterial M	20,460	0.57	А	
42.2	Florin Rd	Vineyard Rd	Excelsior Rd	2	Arterial M	4,970	0.28	Α	3	Arterial M	19,520	1.08	F	West Jackson
43	Florin Rd	Excelsior Rd	Sunrise Blvd	2	Arterial M	6,790	0.38	А	2	Arterial M	11,880	0.66	В	
44	Folsom Blvd	Howe Ave	Jackson Rd	4	Arterial M	47,760	1.33	F	4	Arterial M	55,090	1.53	F	



		Seg	ment		MTP C	umulative No	Project			MTP Cumu	lative + FOUF	R PROJECTS	5	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
45	Fruitridge Rd	65th St	Power Inn Rd	4	Arterial M	21,640	0.60	В	4	Arterial M	26,690	0.74	С	
46	Fruitridge Rd	Power Inn Rd	Florin Perkins Rd	4	Arterial M	18,700	0.52	А	4	Arterial M	30,040	0.83	D	
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	12,760	0.71	С	2	Arterial M	27,360	1.52	F	
48	Fruitridge Rd	South Watt Ave	Hedge Ave	2	Arterial M	5,150	0.29	А	3	Arterial M	19,590	1.09	F	West Jackson
49.1	Fruitridge Rd	Hedge Ave	Collector WJ-12	2	Arterial M	1,260	0.07	А	4	Arterial M	23,000	0.64	В	West Jackson
49.2	Fruitridge Rd	Collector WJ-12	Mayhew Rd	2	Arterial M	1,230	0.07	А	4	Arterial M	22,940	0.64	В	West Jackson
50	Grant Line Rd	White Rock Rd	Douglas Rd	4	Arterial M	17,720	0.49	А	4	Arterial M	19,330	0.54	А	
51.1	Grant Line Rd	Douglas Rd	Chrysanthy Blvd	4	Arterial M	10,670	0.30	А	4	Arterial M	15,220	0.42	А	
51.2	Grant Line Rd	Chrysanthy Blvd	Kiefer Blvd	4	Arterial M	10,640	0.30	А	4	Arterial M	15,100	0.42	А	
52.1	Grant Line Rd	Kiefer Blvd	Rancho Cordova Pkwy	4	Arterial M	11,510	0.32	А	4	Arterial M	14,610	0.41	А	
52.2	Grant Line Rd	Rancho Cordova Pkwy	Jackson Rd	4	Arterial M	15,240	0.42	А	4	Arterial M	16,150	0.45	А	
53	Grant Line Rd	Jackson Rd	Sunrise Blvd	4	Arterial M	19,200	0.53	А	4	Arterial M	19,230	0.53	А	
54	Grant Line Rd	Sunrise Blvd	Calvine Rd	4	Arterial M	29,380	0.82	D	4	Arterial M	31,320	0.87	D	
55	Grant Line Rd	Calvine Rd	Sheldon Rd	4	Arterial M	27,060	0.75	С	4	Arterial M	28,970	0.80	D	
56	Grant Line Rd	Sheldon Rd	Wilton Rd	4	Arterial M	32,480	0.90	Ε	4	Arterial M	38,800	1.08	F	
57	Grant Line Rd	Wilton Rd	Bond Rd	4	Arterial M	27,930	0.78	С	4	Arterial M	33,840	0.94	E	
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	2	Arterial M	3,980	0.22	А	4	Arterial M	49,530	1.38	F	West Jackson
59.1	Hedge Ave	Jackson Rd	Rock Creek Pkwy	2	Arterial M	2,130	0.12	А	2	Arterial M	9,640	0.54	А	
59.2	Hedge Ave	Rock Creek Pkwy	Fruitridge Rd	2	Arterial M	2,240	0.12	А	2	Arterial M	4,270	0.24	А	
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	2	Arterial M	3,370	0.19	А	2	Arterial M	4,440	0.25	А	
61	Hedge Ave	Elder Creek Rd	Florin Rd	2	Arterial M	4,150	0.23	А	2	Arterial M	2,250	0.13	А	
62	Howe Ave	US 50	Folsom Blvd	6	Arterial M	65,100	1.21	F	6	Arterial M	70,480	1.31	F	
63	International Dr	Mather Field Rd	Zinfandel Dr	6	Arterial M	40,240	0.75	С	6	Arterial M	39,720	0.74	С	
64	International Dr	Zinfandel Dr	Sunrise Blvd	6	Arterial M	18,860	0.35	А	6	Arterial M	26,670	0.49	А	
65	Jackson Rd	Folsom Blvd	Florin Perkins Rd	4	Arterial M	27,690	0.77	C	4	Arterial M	35,670	0.99	Е	
66.1	Jackson Rd	Florin Perkins Rd	14th Ave	4	Arterial M	23,710	0.66	В	4	Arterial M	42,300	1.18	F	
66.2	Jackson Rd	14th Ave	Rock Creek Pkwy	4	Arterial M	30,370	0.84	D	4	Arterial M	58,220	1.62	F	
66.3	Jackson Rd	Rock Creek Pkwy	Aspen 1 Dwy	4	Arterial M	23,810	0.66	В	4	Arterial M	52,540	1.46	F	



		Seg	ment		MTP C	cumulative No	Project			MTP Cumu	lative + FOUH	R PROJECTS	5	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
66.4	Jackson Rd	Aspen 1 Dwy	South Watt Ave	4	Arterial M	23,810	0.66	В	4	Arterial M	52,540	1.46	F	
67	Jackson Rd	South Watt Ave	Hedge Ave	2	Arterial M	21,080	1.17	F	4	Arterial M	65,760	1.83	F	West Jackson
68.1	Jackson Rd	Hedge Ave	Collector WJ-3	2	Arterial M	17,470	0.97	Е	4	Arterial M	59,710	1.66	F	West Jackson
68.2	Jackson Rd	Collector WJ-3	Mayhew Rd	2	Arterial M	17,500	0.97	Е	4	Arterial M	60,300	1.68	F	West Jackson
69	Jackson Rd	Mayhew Rd	Bradshaw Rd	2	Arterial M	19,430	1.08	F	6	Arterial M	58,820	1.09	F	West Jackson
70.1	Jackson Rd	Bradshaw Rd	Collector WJ-4	2	Rural Hwy	17,430	0.76	Е	6	Arterial M	54,830	1.02	F	West Jackson
70.2	Jackson Rd	Collector WJ-4	Happy Ln	2	Rural Hwy	17,510	0.76	Е	6	Arterial M	52,140	0.97	Е	West Jackson
70.3	Jackson Rd	Happy Ln	Rock Creek Pkwy	2	Rural Hwy	17,410	0.76	Е	6	Arterial M	44,970	0.83	D	West Jackson
70.4	Jackson Rd	Rock Creek Pkwy	Collector WJ-5	2	Rural Hwy	17,410	0.76	Е	6	Arterial M	45,320	0.84	D	West Jackson
70.5	Jackson Rd	Collector WJ-5	Collector WJ-6	2	Rural Hwy	17,430	0.76	Е	6	Arterial M	36,060	0.67	В	West Jackson
70.6	Jackson Rd	Collector WJ-6	Excelsior Rd	2	Rural Hwy	17,430	0.76	Е	6	Arterial M	36,140	0.67	В	West Jackson
71.1	Jackson Rd	Excelsior Rd	Collector JT-3	2	Rural Hwy	13,760	0.60	Е	4	Arterial M	50,100	1.39	F	Jackson Township
71.2	Jackson Rd	Collector JT-3	Tree View Ln	2	Rural Hwy	13,780	0.60	Е	4	Arterial M	36,060	1.00	F	Jackson Township
71.3	Jackson Rd	Tree View Ln	Collector JT-4	2	Rural Hwy	13,760	0.60	Е	4	Arterial M	28,070	0.78	С	Jackson Township
71.4	Jackson Rd	Collector JT-4	Eagles Nest Rd	2	Rural Hwy	13,780	0.60	Е	4	Arterial M	24,660	0.69	В	Jackson Township
72.1	Jackson Rd	Eagles Nest Rd	Rockbridge Dr	2	Rural Hwy	14,440	0.63	Е	4	Arterial M	23,630	0.66	В	NewBridge
72.2	Jackson Rd	Rockbridge Dr	Sunrise Blvd	2	Rural Hwy	14,920	0.65	Е	4	Arterial M	22,200	0.62		NewBridge
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	2	Rural Hwy	18,000	0.79	Е	2	Rural Hwy	20,160	0.88	E	
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	2	Arterial M	2,890	0.16	А	2	Arterial M	4,930	0.27	А	
75	Kiefer Blvd	South Watt Ave	Mayhew Rd	4	Arterial M	24,290	0.67	В	4	Arterial M	32,340	0.90	D	
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd	4	Arterial M	13,650	0.38	Α	4	Arterial M	43,890	1.22	F	
77.1	Kiefer Blvd	Bradshaw Rd	Collector WJ-14	2	Arterial M	5,930	0.33	Α	6	Arterial M	49,620	0.92	Е	West Jackson
77.2	Kiefer Blvd	Collector WJ-14	Happy Ln	2	Arterial M	4,940	0.27	А	6	Arterial M	41,720	0.77	С	West Jackson
78.1	Kiefer Blvd	Eagles Nest Rd	W Collector MS-1	2	Arterial M	3400	0.19	А	4	Arterial M	21,740	0.60	В	NewBridge; Mather South
78.2	Kiefer Blvd	W Collector MS-1	Northbridge Dr	2	Arterial M	3400	0.19	A	4	Arterial M	15,380	0.43	A	NewBridge; Mather South
78.3	Kiefer Blvd	Northbridge Dr	E Collector MS-1	2	Arterial M	3400	0.19	A	4	Arterial M	15,900	0.44	A	NewBridge; Mather South
78.4	Kiefer Blvd	E Collector MS-1	Sunrise Blvd	2	Arterial M	3350	0.19	A	3	Arterial M	22,480	1.25	F	NewBridge
79	Kiefer Blvd	Sunrise Blvd	Rancho Cordova Pkwy	2	Arterial M	7,120	0.40	А	2	Arterial M	13,400	0.74	С	



		Segr	ment		MTP C	umulative No	Project			MTP Cumu	lative + FOUF	R PROJECTS	S	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
80	Mather Blvd / Norden Ave	Von Karman St	Bleckely St	4	Arterial M	11,430	0.32	А	4	Arterial M	11,380	0.32	А	
81	Mather Blvd	Bleckely St	Femoyer St	4	Arterial M	11,430	0.32	А	4	Arterial M	11,380	0.32	А	
82	Mather Blvd	Femoyer St	Douglas Rd	2	Arterial M	11,490	0.64	В	2	Arterial M	11,430	0.64	В	
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd	2	Res Collector F	9,160	1.15	F	2	Res Collector F	14,550	1.82	F	
84	Mather Field Rd	US 50	Rockingham Dr	6	Arterial M	60,190	1.11	F	6	Arterial M	59,270	1.10	F	
85	Mather Field Rd	Rockingham Dr	International Dr	6	Arterial M	65,760	1.22	F	6	Arterial M	67,280	1.25	F	
86	Mather Field Rd	International Dr	Peter A McCuen Blvd	6	Arterial M	17,610	0.33	А	6	Arterial M	18,200	0.34	А	
87	Mayhew Rd	Folsom Blvd	Goethe Rd	2	Arterial M	6,240	0.35	А	2	Arterial M	14,220	0.79	С	
88	Mayhew Rd	Goethe Rd	Kiefer Blvd	2	Arterial M	10,090	0.56	А	2	Arterial M	13,300	0.74	С	
89.1	Mayhew Rd	Jackson Rd	Rock Creek Pkwy						4	Arterial M	45,500	1.26	F	West Jackson
89.2	Mayhew Rd	Rock Creek Pkwy	Fruitridge Rd						4	Arterial M	40,820	1.13	F	West Jackson
90	Old Placerville Rd	Bradshaw Rd	Granby Dr	4	Arterial M	28,270	0.79	С	4	Arterial M	25,530	0.71	С	
91	Old Placerville Rd	Granby Dr	Happy Ln	2	Arterial M	24,860	1.38	F	2	Arterial M	23,530	1.31	F	
92	Old Placerville Rd	Happy Ln	Routier Rd	2	Arterial M	20,930	1.16	F	2	Arterial M	50,980	2.83	F	
93	Old Placerville Rd	Routier Rd	Rockingham Dr	4	Arterial M	22,140	0.62	В	4	Arterial M	32,970	0.92	E	
94	Power Inn Rd	Folsom Blvd	14th Ave	6	Arterial M	42,040	0.78	С	6	Arterial M	46,170	0.86	D	
95	Rockingham Dr	Old Placerville Rd	Mather Field Rd	4	Arterial M	27,940	0.78	С	4	Arterial M	36,140	1.00	F	
96	South Watt Ave	Folsom Blvd	Kiefer Blvd	6	Arterial M	62,830	1.16	F	6	Arterial M	82,250	1.52	F	
97	South Watt Ave	Kiefer Blvd	Jackson Rd	6	Arterial M	62,170	1.15	F	6	Arterial M	72,010	1.33	F	
98.1	South Watt Ave	Jackson Rd	Rock Creek Pkwy	6	Arterial M	59,380	1.10	F	6	Arterial M	54,560	1.01	F	
98.2	South Watt Ave	Rock Creek Pkwy	Fruitridge Rd	6	Arterial M	58,150	1.08	F	6	Arterial M	53,910	1.00	Ε	
99	South Watt Ave	Fruitridge Rd	Elder Creek Rd	6	Arterial M	52,450	0.97	Ε	6	Arterial M	47,300	0.88	D	
100	South Watt Ave	Elder Creek Rd	Florin Rd	4	Arterial M	34,360	0.95	Ε	4	Arterial M	37,030	1.03	F	
101	Sunrise Blvd	US 50	Folsom Blvd	7	Arterial M	58,090	1.08	F	7	Arterial M	55,140	1.02	F	
102	Sunrise Blvd	Folsom Blvd	Trade Center Dr	6	Arterial M	54,090	1.00	F	6	Arterial M	51,430	0.95	Ε	
103	Sunrise Blvd	Trade Center Dr	White Rock Rd	6	Arterial M	31,510	0.58	А	6	Arterial M	33,400	0.62	В	
104.1	Sunrise Blvd	White Rock Rd	International Dr	6	Arterial M	38,030	0.70	C	6	Arterial M	39,950	0.74	C	
104.2	Sunrise Blvd	International Dr	Rio Del Oro Pkwy	6	Arterial M	43,770	0.81	D	6	Arterial M	53,110	0.98	E	
104.3	Sunrise Blvd	Rio Del Oro Pkwy	Douglas Rd	6	Arterial M	35,150	0.65	В	6	Arterial M	53,560	0.99	E	
105	Sunrise Blvd	Douglas Rd	Kiefer Blvd	5	Arterial M	21,340	0.59	А	5	Arterial M	30,680	0.85	D	
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd	4	Arterial M	24,880	0.69	В	4	Arterial M	29,460	0.82	D	



		Seg	ment		MTP C	umulative No	Project			MTP Cumu	lative + FOUF	R PROJECTS	5	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
107	Sunrise Blvd	Jackson Rd	Florin Rd	4	Arterial M	20,580	0.57	А	4	Arterial M	22,850	0.63	В	
108	Sunrise Blvd	Florin Rd	Grant Line Rd	4	Arterial M	14,420	0.40	А	4	Arterial M	15,750	0.44	А	
109	Vineyard Rd	Gerber Rd	Calvine Rd	2	Arterial M	9,220	0.51	А	2	Arterial M	9,050	0.50	А	
110	Watt Ave	US 50	Folsom Blvd	6	Arterial H	94,000	1.57	F	6	Arterial H	105,950	1.77	F	
111	White Rock Rd	International Rd	Quality Dr	2	Arterial M	4,680	0.26	А	2	Arterial M	4,720	0.26	А	
112	White Rock Rd	Quality Dr	Zinfandel Dr	4	Arterial M	19,370	0.54	А	4	Arterial M	16,820	0.47	А	
113	White Rock Rd	Zinfandel Dr	Kilgore Rd	6	Arterial M	29,240	0.54	А	6	Arterial M	27,470	0.51	А	
114	White Rock Rd	Kilgore Rd	Sunrise Blvd	5	Arterial M	33,520	0.93	Е	5	Arterial M	30,700	0.85	D	
115	White Rock Rd	Sunrise Blvd	Fitzgerald Rd	4	Arterial M	33,460	0.93	Е	4	Arterial M	30,360	0.84	D	
116.1	White Rock Rd	Fitzgerald Rd	Rancho Cordova Pkwy	4	Arterial M	45,390	1.26	F	4	Arterial M	38,630	1.07	F	
116.2	White Rock Rd	Rancho Cordova Pkwy	Americanos Blvd	4	Arterial M	10,890	0.30	А	4	Arterial M	5,570	0.15	А	
116.3	White Rock Rd	Americanos Blvd	Grant Line Rd	4	Arterial M	8,260	0.23	А	4	Arterial M	8,800	0.24	А	
117	White Rock Rd	Grant Line Rd	Prairie City Rd	4	Arterial M	26,760	0.74	С	4	Arterial M	29,070	0.81	D	
118	Zinfandel Dr	US 50	White Rock Rd	7	Arterial M	77,650	1.44	F	7	Arterial M	77,970	1.44	F	
119	Zinfandel Dr	White Rock Rd	International Rd	6	Arterial M	33,110	0.61	В	6	Arterial M	40,620	0.75	С	
120	Zinfandel Dr	International Rd	Baroque Dr	6	Arterial M	27,010	0.50	А	6	Arterial M	32,020	0.59	А	
121	Zinfandel Dr	Baroque Dr	City Limit	4	Arterial M	27,010	0.75	С	4	Arterial M	32,020	0.89	D	
122	Zinfandel Dr	City Limit	Douglas Rd	2	Arterial M	27,010	1.50	F	2	Arterial M	32,020	1.78	F	
123.1	Zinfandel Dr	Douglas Rd	Collector MS-2	4	Arterial M	11,210	0.31	А	4	Arterial M	30,180	0.84	D	
123.2	Zinfandel Dr	Collector MS-2	Collector MS-3	4	Arterial M	8,420	0.23	А	4	Arterial M	24,780	0.69	В	
123.3	Zinfandel Dr	Collector MS-3	Collector MS-4	4	Arterial M	8,420	0.23	А	4	Arterial M	23,030	0.64	В	
123.4	Zinfandel Dr	Collector MS-4	Kiefer Blvd	4	Arterial M	8,420	0.23	А	4	Arterial M	23,640	0.66	В	
124	14th Ave	Power Inn Rd	Florin Perkins Rd	4	Arterial M	13,060	0.36	А	4	Arterial M	26,570	0.74	С	
125	14th Ave	Florin Perkins Rd	Jackson Rd	4	Arterial M	7,070	0.20	А	4	Arterial M	15,960	0.44	А	
126	Chrysanthy Blvd	Rancho Cordova Pkwy	Americanos Blvd	4	Arterial M	8,010	0.22	А	4	Arterial M	16,980	0.47	А	
127	Chrysanthy Blvd	Americanos Blvd	Grant Line Rd	2	Arterial M	2,200	0.12	А	2	Arterial M	4,610	0.26	Α	
128	Douglas Rd (Extension)	Mather Blvd	Kiefer Blvd	4	Arterial M	2,210	0.06	А	4	Arterial M	17,530	0.49	А	
130	International Dr	Rancho Cordova Pkwy	Americanos Blvd	6	Arterial M	2,340	0.04	А	6	Arterial M	1,630	0.03	А	
131	Kiefer Blvd	Rancho Cordova Pkwy	Americanos Blvd	4	Arterial M	520	0.01	Α	4	Arterial M	2,070	0.06	А	
132	Kiefer Blvd	Americanos Blvd	Grant Line Rd	4	Arterial M	520	0.01	А	4	Arterial M	2,080	0.06	А	
133	Rancho Cordova Pkwy	US 50	Easton Valley Pkwy	4	Arterial M	34,920	0.97	E	4	Arterial M	35,330	0.98	Е	
134	Rancho Cordova Pkwy	Easton Valley Pkwy	White Rock Rd	4	Arterial M	35,100	0.98	Е	4	Arterial M	35,620	0.99	Е	
135	Rancho Cordova Pkwy	White Rock Rd	International Dr	6	Arterial M	43,480	0.81	D	6	Arterial M	39,600	0.73	C	



		Seg	ment	MTP Cumulative No Project						MTP Cumu	lative + FOUF	R PROJECTS	S	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
136	Rancho Cordova Pkwy	International Dr	Rio Del Oro Pkwy	6	Arterial M	41,770	0.77	С	6	Arterial M	38,670	0.72	С	
137	Rancho Cordova Pkwy	Rio Del Oro Pkwy	Villagio Dr	6	Arterial M	27,820	0.52	А	6	Arterial M	22,210	0.41	А	
138	Rancho Cordova Pkwy	Villagio Dr	Douglas Rd	6	Arterial M	14,600	0.27	А	6	Arterial M	13,820	0.26	А	
139	Rancho Cordova Pkwy	Douglas Rd	Chrysanthy Blvd	4	Arterial M	15,040	0.42	А	4	Arterial M	15,960	0.44	А	
140	Rancho Cordova Pkwy	Chrysanthy Blvd	Kiefer Blvd	4	Arterial M	7,500	0.21	А	4	Arterial M	5,040	0.14	А	
141	Rancho Cordova Pkwy	Kiefer Blvd	Grant Line Rd	4	Arterial M	6,190	0.17	А	4	Arterial M	1,610	0.04	А	
142	Americanos Blvd	White Rock Rd	Douglas Rd	4	Arterial M	2,670	0.07	А	4	Arterial M	2,750	0.08	А	
143	Americanos Blvd	Douglas Rd	Chrysanthy Blvd	4	Arterial M	7,740	0.22	А	4	Arterial M	6,180	0.17	А	
144	Americanos Blvd	Chrysanthy Blvd	Kiefer Blvd	4	Arterial M	1,930	0.05	А	4	Arterial M	3,130	0.09	А	
146	Rio Del Oro Pkwy	Sunrise Blvd	Rancho Cordova Pkwy	6	Arterial M	19,290	0.36	А	6	Arterial M	37,230	0.69	В	
147	Rio Del Oro Pkwy	Rancho Cordova Pkwy	White Rock Rd	2	Arterial M	2,630	0.15	А	2	Arterial M	2,990	0.17	А	
200	Kiefer Blvd	Tree View Ln	Eagles Nest Rd						4	Arterial M	31,370	0.87	D	West Jackson; Jackson Township; NewBridge; Mather South
300	Douglas Rd	Excelsior Rd	Rock Creek Pkwy	4	Arterial M	2,210	0.06	А	4	Arterial M	21,870	0.61	В	
301	Douglas Rd	Rock Creek Pkwy	Kiefer Blvd	4	Arterial M	2,210	0.06	А	4	Arterial M	29,770	0.83	D	
302	Happy Ln	Kiefer Blvd	Mayhew Rd						4	Arterial M	40,480	1.12	F	West Jackson
303	Happy Ln	Mayhew Rd	Jackson Rd						4	Arterial M	30,100	0.84	D	West Jackson
304	Happy Ln	Jackson Rd	Rock Creek Pkwy						4	Arterial M	33,020	0.92	Е	West Jackson
305	Kiefer Blvd	Happy Ln	Collector WJ-15						6	Arterial M	60,300	1.12	F	West Jackson
306	Kiefer Blvd	Collector WJ-15	Douglas Rd						6	Arterial M	56,010	1.04	F	West Jackson
307	Kiefer Blvd	Douglas Rd	Excelsior Rd						4	Arterial M	27,430	0.76	С	West Jackson
308	Mayhew Rd	Happy Ln	Bradshaw Rd						4	Arterial M	40,230	1.12	F	West Jackson
309	Mayhew Rd	Bradshaw Rd	Jackson Rd						4	Arterial M	40,820	1.13	F	West Jackson
310	Mayhew Rd	Fruitridge Rd	Collector WJ-13						4	Arterial M	21,080	0.59	А	West Jackson
311	Mayhew Rd	Collector WJ-13	Elder Creek Rd						3	Arterial M	19,870	1.10	F	West Jackson
312	Rock Creek Pkwy	South Watt Ave	Hedge Ave						2	Arterial M	9,310	0.52	А	West Jackson
313	Rock Creek Pkwy	Hedge Ave	Mayhew Rd						2	Arterial M	12,270	0.68	В	West Jackson
314	Rock Creek Pkwy	Mayhew Rd	Bradshaw Rd						2	Arterial M	9,210	0.51	А	West Jackson
315	Rock Creek Pkwy	Bradshaw Rd	Collector WJ-7						2	Arterial M	10,290	0.57	A	West Jackson
316	Rock Creek Pkwy	Collector WJ-7	Happy Ln/ Vineyard Rd						2	Arterial M	10,900	0.61	В	West Jackson
317	Rock Creek Pkwy	Happy Ln/ Vineyard Rd	Jackson Rd						2	Arterial M	12,250	0.68	В	West Jackson



		Seg	ment		MTP (	Cumulative No	Project			MTP Cumu	lative + FOUF	R PROJECTS	5	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
318	Rock Creek Pkwy	Jackson Rd	Excelsior Rd						2	Arterial M	12,310	0.68	В	West Jackson
319	Vineyard Rd	Rock Creek Pkwy	Elder Creek Rd						4	Arterial M	34,380	0.96	Е	West Jackson
320	Vineyard Rd	Elder Creek Rd	Florin Rd						4	Arterial M	13,230	0.37	А	West Jackson
321	Collector WJ-16	Rock Creek Pkwy	Collector WJ-6						2	Res Collector F	640	0.08	А	West Jackson
322	Collector WJ-17	Rock Creek Pkwy	Collector WJ-6						2	Res Collector F	1,070	0.13	А	West Jackson
323	Collector WJ-6	Collector WJ-16/WJ-17	Jackson Rd						2	Res Collector F	2,980	0.37	В	West Jackson
324	Collector WJ-6	Jackson Rd	Excelsior Rd						2	Res Collector F	3,290	0.41	С	West Jackson
325	Collector WJ-2	Excelsior Rd	Collector WJ-6						2	Arterial M	3,660	0.20	А	West Jackson
326	Collector WJ-18	Vineyard Rd	Collector WJ-19/ WJ-20						2	Arterial M	2,980	0.17	А	West Jackson
327	Collector WJ-19	Collector WJ-18	Collector WJ-21						2	Arterial M	1,290	0.07	А	West Jackson
328	Collector WJ-20	Collector WJ-18	Collector WJ-21						2	Res Collector F	2,980	0.37	В	West Jackson
329	Collector WJ-21	Collector WJ-19/ WJ-20	Collector WJ-6						2	Res Collector F	2,320	0.29	В	West Jackson
400	Collector JT-1	Excelsior Rd	Collector JT-3						2	Res Collector F	3,790	0.47	С	Jackson Township
401	Collector JT-1	Collector JT-3	Tree View Ln						2	Res Collector F	1,340	0.17	А	Jackson Township
402	Collector JT-3	Kiefer Blvd	Collector JT-1						2	Res Collector F	2,470	0.31	В	Jackson Township
403	Collector JT-3	Collector JT-1	Collector JT-6						2	Res Collector F	2,180	0.27	В	Jackson Township
404	Collector JT-3	Collector JT-6	Collector JT-5						2	Res Collector F	2,970	0.37	В	Jackson Township
405	Collector JT-3	Collector JT-5	Jackson Rd						2	Res Collector F	17,330	2.17	F	Jackson Township
406	Collector JT-4	Jackson Rd	Bridgewater Dr						2	Arterial M	3,540	0.20	А	Jackson Township
407	Collector JT-5	Collector JT-3	Tree View Ln						2	Arterial M	8,630	0.48	А	Jackson Township
408	Collector JT-6	Excelsior Rd	Collector JT-3						2	Res Collector F	3,880	0.49	C	Jackson Township



		Segi	ment		MTP (	<b>Cumulative No</b>	Project			MTP Cumu	lative + FOUI	R PROJECTS	5	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
409	Collector JT-6	Collector JT-3	Tree View Ln						2	Res Collector F	660	0.08	A	Jackson Township
410	Kiefer Blvd	Excelsior Rd	Tree View Ln						4	Arterial M	29,240	0.81	D	Jackson Township
411	Tree View Ln	Kiefer Blvd	Collector JT-1						4	Arterial M	11,040	0.31	А	Jackson Township
412	Tree View Ln	Collector JT-1	Collector JT-6						4	Arterial M	10,850	0.30	А	Jackson Township
413	Tree View Ln	Collector JT-6	Collector JT-5						4	Arterial M	10,830	0.30	А	Jackson Township
414	Tree View Ln	Collector JT-5	Jackson Rd						4	Arterial M	6,520	0.18	А	Jackson Township
415	Collector JT-7	Collector JT-3	Tree View Ln						2	Arterial M	1,560	0.09	А	Jackson Township
416	Collector JT-8	Collector JT-3	Tree View Ln						2	Arterial M	1,830	0.10	А	Jackson Township
417	Collector JT-9	Jackson Rd	Collector JT-8						2	Arterial M	4,250	0.24	А	Jackson Township
418	Collector JT-10	Jackson Rd	Collector JT-8						2	Arterial M	1,570	0.09	А	Jackson Township
419	Collector JT-6	Tree View Ln	Jackson Rd						2	Res Collector F	1,370	0.17	А	Jackson Township
500	S Bridgewater Dr	Collector JT-4	Eagles Nest Rd						2	Res Collector F	4,190	0.52	C	NewBridge
501	S Bridgewater Dr	Eagles Nest Rd	Northbridge Dr						2	Res Collector F	4,450	0.56	C	NewBridge
502	N Bridgewater Dr	Northbridge Dr	Eagles Nest Rd						2	Res Collector F	1,170	0.15	А	NewBridge
503	Northbridge Dr	Kiefer Blvd	Bridgewater Dr						2	Arterial M	3,240	0.18	А	NewBridge
504	Street A	S Bridgewater Dr	Street B						2	Res Collector F	1,600	0.20	В	NewBridge
505	Street B	S Bridgewater Dr	Street A						2	Res Collector F	1,260	0.16	А	NewBridge
506	Rockbridge Dr	Street B	Stonebridge Dr						2	Res Collector F	1,420	0.18	А	NewBridge
507	Rockbridge Dr	Stonebridge Dr	Jackson Rd						2	Arterial M	5,740	0.32	А	NewBridge
508	Stonebridge Dr	S Bridgewater Dr	Rockbridge Dr						2	Arterial M	2,810	0.16	А	NewBridge
509	Stonebridge Dr	Rockbridge Dr	Jackson Rd						2	Res Collector F	3,570	0.45	С	NewBridge
600	W Collector MS-1	Kiefer Blvd	Collector MS-5						2	Arterial M	5,880	0.33	А	Mather South
601	E Collector MS-1	Collector MS-5	Kiefer Blvd						2	Arterial M	7,930	0.44	А	Mather South
602	Collector MS-2	Eagles Nest Rd	Collector MS-5						2	Res Collector F	9,370	1.17	F	Mather South



		Seg	ment		MTP C	Cumulative No	Project			MTP Cumu	lative + FOUI	R PROJECTS	5	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
603	Collector MS-3	Eagles Nest Rd	Collector MS-5						2	Arterial M	5,310	0.30	А	Mather South
604	Collector MS-4	Eagles Nest Rd	Collector MS-5						2	Arterial M	11,470	0.64	В	Mather South
605	Collector MS-5	Collector MS-1	Collector MS-4						2	Arterial M	13,800	0.77	С	Mather South
606	Collector MS-5	Collector MS-4	Collector MS-3						2	Arterial M	3,610	0.20	А	Mather South
607	Collector MS-5	Collector MS-3	Collector MS-2						2	Arterial M	1,660	0.09	A	Mather South

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage



## Table 5.5

lab	able 3.3 MTP Cumulative Plus FOUR PRO JECTS Intersection Levels of Service																
	WIP CUMULATIVE PIUS FOUR PROJECTS INTERSECTION LEVELS OF SERVICE								PM Peak Hour								
	Intersection		MTP Cumulative No FOUR PROJECTS			MTP Cumulative Plus FOUR PROJECTS			MTP Cumulative No FOUR PROJECTS			MTP Cumulative Plus FOUR PROJECTS					
		Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact		
1	Howe Avenue & College Town Drive/US 50 WB Ramps	Signal	D	40.7	Signal	D	48.7	No	Signal	D	50.0	Signal	Е	55.8	No		
2	Howe Avenue & US 50 EB Ramps	Signal	С	28.6	Signal	E	64.5	No	Signal	В	17.0	Signal	С	20.0	No		
3	Power Inn Road/Howe Avenue & Folsom Blvd	Signal	F	84.5	Signal	F	104.3	Yes	Signal	E	61.0	Signal	Е	77.3	No		
Z	Power Inn Road & 14th Avenue	Signal	E	59.0	Signal	F	205.7	Yes	Signal	E	71.4	Signal	F	142.0	Yes		
Ę	Power Inn Road & Fruitridge Road	Signal	F	115.6	Signal	F	111.4	No	Signal	D	46.2	Signal	D	52.4	No		
6	j Jackson Road/Notre Dame Dr. & Folsom Blvd.	Signal	D	37.7	Signal	D	48.6	No	Signal	D	51.2	Signal	Е	71.5	No		
7	<sup>7</sup> Florin Perkins Road/Julliard Dr. & Folsom Boulevard	Signal	D	37.9	Signal	Е	63.1	No	Signal	E	77.1	Signal	D	37.5	No		
8	Florin Perkins Road & Kiefer Blvd.	Two-way stop	А	2.0	Two-way stop	А	3.1	No	Two-way stop	А	2.9	Two-way stop	А	4.6	No		
	Westbound Left Turn		С	15.3		С	23.5			С	17.3		D	26.8			
	Westbound Right Turn		В	11.3		В	12.1			В	10.7		С	15.2			
	Southbound Left Turn		А	9.1		А	9.9			А	9.6		В	11.8			
ç	Florin Perkins Road & Jackson Road	Signal	E	64.8	Signal	E	73.9	No	Signal	E	60.3	Signal	E	63.1	No		
10	Florin Perkins Road & Fruitridge Road	Signal	Е	71.8	Signal	D	42.7	No	Signal	С	27.0	Signal	D	38.0	No		
11	Florin Perkins Road & Elder Creek Road	Signal	D	36.0	Signal	С	31.8	No	Signal	С	34.5	Signal	С	35.0	No		
12	? Watt Avenue & Folsom Blvd.	Signal	F	202.6	Signal	F	190.1	No	Signal	F	124.9	Signal	F	187.8	Yes		
13	S. Watt Ave. & Reith Ct/Manlove Road	Signal	С	34.1	Signal	D	40.8	No	Signal	С	25.3	Signal	D	36.3	No		
14	S. Watt Avenue & Kiefer Blvd.	Signal	F	108.7	Signal	F	120.8	Yes	Signal	F	90.8	Signal	F	92.7	No		

## Table 5.5

MTP Cumulative Plus FOUR PROJECTS Intersection Levels of Service														
	AM Peak Hour										PM Peak Hour			
Intersection	MTP Cumulative No FOUR PROJECTS			MTP Cumulative Plus FOUR PROJECTS				MTP Cumulative No FOUR PROJECTS			MTP Cumulative Plus FOUR PROJECTS			
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
15 S. Watt Avenue & Canberra Dr.	Signal	В	18.8	Signal	Е	65.5	No	Signal	В	12.4	Signal	В	11.4	No
16 S. Watt Avenue & Jackson Road	Signal	Е	67.8	Signal	F	221.7	Yes	Signal	F	88.8	Signal	F	196.7	Yes
17 S. Watt Avenue & Fruitridge Road	Signal	Е	69.9	Signal	F	124.8	Yes	Signal	Е	75.3	Signal	F	111.7	Yes
18 S. Watt Avenue & Elder Creek Road	Signal	F	265.0	Signal	F	196.2	No	Signal	F	149.5	Signal	F	203.8	Yes
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	F	121.5	Signal	F	153.2	Yes	Signal	Е	70.2	Signal	F	101.0	Yes
21 Elk Grove Florin Road & Gerber Road	Signal	Е	64.3	Signal	Е	78.1	No	Signal	F	102.5	Signal	F	86.5	No
23 Hedge Avenue & Jackson Road	Signal	D	35.4	Signal	F	213.6	Yes	Signal	С	28.0	Signal	F	141.4	Yes
24 Hedge Avenue & Fruitridge Road	All-way stop	Е	41.6	Signal	D	45.8	No	All-way stop	В	10.5	Signal	Е	61.0	No
25 Hedge Avenue & Elder Creek Road	All-way stop	F	68.0	Signal	D	50.6	No	All-way stop	F	66.6	Signal	Е	71.4	No
26 Hedge Avenue & Tokay Lane	Two-way stop	А	0.3	Two-way stop	А	0.5	No	Two-way stop	А	0.1	Two-way stop	A	0.3	No
Northbound Left Turn		A	0.0		А	0.0			А	0.0		A	0.0	
Southbound Left Turn		Α	9.0		А	7.7			Α	7.3		Α	7.3	
Eastbound		С	16.6		В	10.8			В	13.2		A	9.9	
Westbound		В	14.6		В	10.0			В	11.2		A	9.3	
27 Hedge Avenue & Florin Road	Signal	Е	75.3	Signal	С	23.4	No	Signal	Е	68.7	Signal	В	10.1	No
28 Mayhew Road & Kiefer Boulevard	Signal	D	51.5	Signal	F	112.8	Yes	Signal	Е	76.9	Signal	Е	75.5	No
MTP Cumulative Plus FOUR PROJECTS Intersection Levels of Serv				AM Peak Hour							PM Peak Hour			
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Intersection	MTP No FOU	Cumulativ JR PROJE	re CTS	MTP Cumu PF	Ilative Plus	s FOUR		MTP No FOI	Cumulativ JR PROJE	ve CTS	MTP Cumu Pf	Ilative Plus	FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
29 Mayhew Road & Jackson Road	Two-way stop	А	1.1	Signal	F	127.5	Yes	Two-way stop	А	1.3	Signal	F	103.8	Yes
Northbound Through - Left Turn		Е	35.8						Е	47.9				
Northbound Right Turn		В	13.2						С	16.7				
Southbound		С	22.4						D	33.3				
Eastbound Left Turn		A	9.4						A	8.9	_			
Westbound Left Turn		A	8.7						A	9.7				
30 Mayhew Road & Fruitridge Road	Two-way stop	А	8.0	Signal	С	21.4	No	Two-way stop	А	5.7	Signal	С	21.3	No
Northbound Left Turn		Α	0.0						А	7.3				
Eastbound		Α	8.9						Α	9.0				
31 Mayhew Road & Elder Creek Road	Two-way stop	А	0.2	Signal	F	569.1	Yes	Two-way stop	А	0.3	Signal	F	547.5	Yes
Northbound		В	11.9						В	11.1				
Southbound		А	8.7						В	10.7				
Eastbound Left Turn		Α	7.4						Α	8.0				
Westbound Left Turn		Α	8.3						А	0.0				
32 Woodring Drive & Zinfandel Drive	Two-way stop	А	2.0	Two-way stop	D	32.7	Yes	Two-way stop	А	1.8	Two-way stop	С	15.1	Yes
Eastbound		С	16.2		F	>300			С	23.6		F	>300	
Northbound Left Turn		Α	7.9		В	12.0			Α	9.7		В	13.8	
33 Bradshaw Road & Folsom Blvd.	Signal	Е	58.2	Signal	Е	59.2	No	Signal	Е	69.8	Signal	Е	59.9	No
34 Bradshaw Road & US 50 WB Ramps	Signal	В	17.0	Signal	В	17.2	No	Signal	В	12.5	Signal	D	37.2	No
35 Bradshaw Road & US 50 EB Ramps	Signal	С	34.3	Signal	E	71.8	Yes	Signal	В	15.6	Signal	D	36.1	No
36 Bradshaw Road & Old Placerville Road	Signal	F	82.5	Signal	F	87.0	No	Signal	Е	55.6	Signal	F	88.8	Yes
37 Bradshaw Road & Kiefer Boulevard	Signal	D	48.8	Signal	F	143.6	Yes	Signal	F	99.8	Signal	F	166.1	Yes

MIP Cumulative Plus FOUR PROJECTS Intersection Levels of Servi	ce			AM Peak Hour							PM Peak Hour			
Intersection	MTP No FOL	Cumulativ JR PROJE	re CTS	MTP Cumi Pl	ulative Plus	s FOUR		MTP No FO	Cumulativ UR PROJE	ve CTS	MTP Cumu Pl	Ilative Plus	FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS impact
38 Bradshaw Road & Jackson Road	Signal	F	109.0	Signal	F	97.9	No	Signal	E	75.2	Signal	F	96.1	Yes
39 Bradshaw Road & Elder Creek Road	Signal	Е	70.0	Signal	F	149.1	Yes	Signal	D	44.2	Signal	F	90.7	Yes
40 Bradshaw Road & Florin Road	Signal	Е	71.6	Signal	Е	78.1	No	Signal	Е	67.7	Signal	Е	70.6	No
41 Bradshaw Road & Gerber Road	Signal	F	135.3	Signal	F	109.8	No	Signal	Е	65.0	Signal	Е	61.6	No
42 Happy Lane & Old Placerville Road	Two-way stop	Е	45.2	Two-way stop	F	>300	Yes	Two-way stop	А	5.2	Two-way stop	F	>300	Yes
Northbound Left Turn		F	>300		F	>300			F	>300		F	>300	
Northbound Right Turn		F	>300		F	>300			D	28.5		F	>300	
Westbound Left Turn		С	15.0		F	>300			В	13.4		F	>300	
43 Happy Lane & Kiefer Boulevard	F	Free Turn		Signal	Е	67.1	No	ſ	Free Turn		Signal	Е	55.9	No
44 Excelsior Road & Kiefer Boulevard	West Jackso P	n/Jackson roject Int.	Township	Signal	F	93.9	Yes	West Jackso F	on/Jackson Project Int.	Township	Signal	Е	56.8	No
45 Excelsior Road & Jackson Road	Signal	D	47.9	Signal	F	241.0	Yes	Signal	D	36.1	Signal	F	202.4	Yes
46 Excelsior Road & Elder Creek Road	Two-way stop	В	11.4	Signal	Е	72.3	No	Two-way stop	А	4.6	Signal	D	43.4	No
Northbound Left Turn		А	7.5						А	8.2				
Eastbound		D	34.2						С	17.2				
47 Excelsior Road & Florin Road	All-way stop	Е	40.2	Signal	F	123.2	Yes	All-way stop	D	25.8	Signal	Е	68.2	No
48 Excelsior Road & Gerber Road/Birch Ranch Drive	All-way stop	С	20.1	All-way stop	F	53.1	Yes	All-way stop	В	13.4	All-way stop	Е	39.8	No
49 Mather Field Road & US 50 WB Ramps	Signal	В	16.8	Signal	С	28.2	No	Signal	В	11.9	Signal	В	12.3	No
50 Mather Field Road & US 50 EB Ramps	Signal	С	27.1	Signal	D	41.6	No	Signal	В	17.9	Signal	В	14.7	No

Table 5.5														
MTP Cumulative Plus FOUR PROJECTS Intersection Levels of Servi	ice													
Intersection	MTP No FOU	Cumulativ IR PROJE	ve CTS	AM Peak Hour MTP Cumu Pf	ulative Plu ROJECTS	s FOUR		MTP No FOI	Cumulativ JR PROJE	/e CTS	PM Peak Hour MTP Cumu PF	lative Plus ROJECTS	FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
51 Mather Field Road & Rockingham Drive	Signal	F	135.1	Signal	F	238.4	Yes	Signal	F	102.2	Signal	F	129.1	Yes
52 Mather Boulevard & Douglas Road	Signal	D	48.4	Signal	D	44.9	No	Signal	С	34.5	Signal	D	45.0	No
53 Zinfandel Drive & US 50 WB Ramps	Signal	В	19.0	Signal	В	18.0	No	Signal	D	46.4	Signal	D	36.5	No
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	F	96.1	Signal	F	90.1	No	Signal	Е	76.3	Signal	F	90.6	Yes
55 Zinfandel Drive & White Rock Road	Signal	F	104.7	Signal	F	80.1	No	Signal	F	99.2	Signal	F	98.7	No
56 Zinfandel Drive & Data Drive	Signal	D	50.0	Signal	D	48.8	No	Signal	Е	70.8	Signal	Е	64.0	No
57 Zinfandel Drive & International Dr	Signal	D	54.3	Signal	D	52.9	No	Signal	Е	68.7	Signal	Е	62.7	No
58 Zinfandel Drive & Douglas Road	Signal	F	120.1	Signal	F	227.7	Yes	Signal	Е	67.3	Signal	F	225.8	Yes
59 Eagles Nest Road/Zinfandel Drive & Kiefer Boulevard	Two-way stop	А	4.8	Signal	Е	69.4	No	Two-way stop	А	5.7	Signal	D	44.1	No
Westbound		В	14.4						С	21.8				
Southbound Left Turn		А	8.2						A	8.3				
60 Eagles Nest Road & Jackson Road	Signal	С	27.0	Signal	D	36.4	No	Signal	С	32.1	Signal	D	41.0	No
61 Eagles Nest Road & Florin Road	Two-way stop	F	67.9	Two-way stop	F	>300	Yes	Two-way stop	Е	37.3	Two-way stop	F	>300	Yes
Northbound		F	223.4		F	>300			D	32.8		F	>300	
Southbound		F	>300		F	>300			F	90.3		F	>300	
Eastbound Left Turn		Α	8.2		A	9.7			A	8.1		Α	8.4	
Westbound Left Turn		Α	0.0		A	7.9			Α	7.8		Α	8.2	
62 Sunrise Boulevard & US 50 WB Ramps	Signal	Е	70.5	Signal	Е	69.9	No	Signal	В	15.7	Signal	В	17.9	No

Table 5.5														
MTP Cumulative Plus FOUR PROJECTS Intersection Levels of Serv	ice													
Intersection	MTP No FO	P Cumulativ UR PROJE	/e CTS	AM Peak Hour MTP Cum P	ulative Plus	s FOUR		MTF No FO	P Cumulativ UR PROJE	ve CTS	PM Peak Hour MTP Cum P	ulative Plus ROJECTS	FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
63 Sunrise Boulevard & US 50 EB Ramps	Signal	С	20.8	Signal	С	20.0	No	Signal	В	14.8	Signal	В	15.3	No
64 Sunrise Boulevard & Folsom Boulevard	Signal	D	49.8	Signal	D	53.0	No	Signal	D	45.5	Signal	D	54.6	No
65 Sunrise Boulevard & White Rock Road	Signal	E	56.8	Signal	E	58.3	No	Signal	E	72.2	Signal	E	70.0	No
66 Sunrise Boulevard & International Drive/Monier Circle	Signal	F	129.5	Signal	F	134.3	No	Signal	E	74.2	Signal	E	78.9	No
67 Sunrise Boulevard & Douglas Road	Signal	F	97.0	Signal	F	229.1	Yes	Signal	D	52.4	Signal	F	90.7	Yes
68 Sunrise Boulevard & Chrysanthy Boulevard	Signal	С	26.5	Signal	С	34.2	No	Signal	В	10.5	Signal	D	39.7	No
69 Sunrise Boulevard & Kiefer Boulevard	Signal	D	53.2	Signal	F	144.6	Yes	Signal	D	41.9	Signal	E	63.9	Yes
70 Sunrise Boulevard & Jackson Road	Signal	D	54.2	Signal	D	50.1	No	Signal	E	56.6	Signal	D	44.5	No
71 Sunrise Boulevard & Florin Road	Signal	В	16.4	Signal	В	18.4	No	Signal	С	23.5	Signal	С	31.4	No
72 Sheldon Lake Drive/Sunrise Boulevard & Grant Line Road	Signal	E	79.9	Signal	D	46.5	No	Signal	E	76.1	Signal	E	68.4	No
73 Hazel Avenue & Tributary Point Drive/US 50 WB Off-ramp	Signal	F	142.7	Signal	F	137.9	No	Signal	E	74.2	Signal	E	79.6	No
74 Hazel Avenue & US 50 EB Ramps	Signal	В	14.3	Signal	В	16.1	No	Signal	E	77.9	Signal	F	99.6	Yes
76 Prairie City Road & White Rock Road	Signal	С	27.6	Signal	С	32.2	No	Signal	С	21.6	Signal	В	19.6	No
77 Grant Line Road & White Rock Road	Signal	В	16.1	Signal	В	19.4	No	Signal	В	16.8	Signal	В	17.2	No
78 Grant Line Road & Douglas Road	Signal	В	10.9	Signal	В	13.0	No	Signal	В	18.5	Signal	В	13.5	No

Table 5.5														
MTP Cumulative Plus FOUR PROJECTS Intersection Levels of Serv	ice			AM Peak Hour							PM Peak Hour			
Intersection	MTP No FO	Cumulativ	ve CTS	MTP Cum P	ulative Plus ROJECTS	s FOUR		MTF No FO	Cumulativ UR PROJE	ve CTS	MTP Cum P	ulative Plus ROJECTS	FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
79 Grant Line Road & Kiefer Boulevard	Signal	В	15.7	Signal	В	16.4	No	Signal	В	13.8	Signal	В	13.7	No
80 Grant Line Road & Jackson Road	Signal	E	67.8	Signal	F	85.9	Yes	Signal	D	54.8	Signal	D	51.3	No
81 Watt Avenue & US-50 EB Ramps	Signal	В	19.9	Signal	С	21.2	No	Signal	с	21.3	Signal	С	26.9	No
82 Watt Avenue & US-50 WB Ramps	Signal	E	76.2	Signal	D	54.0	No	Signal	D	50.9	Signal	D	51.7	No
83 Mayhew Rd & Folsom Blvd.	Signal	С	22.2	Signal	С	32.4	No	Signal	С	25.5	Signal	С	29.7	No
84 65th Street Expy & Fruitridge Road	Signal	С	32.8	Signal	D	53.5	No	Signal	D	40.2	Signal	D	43.0	No
85 Power Inn Road & Elder Creek Road	Signal	E	71.8	Signal	E	60.6	No	Signal	D	48.0	Signal	E	61.8	No
86 Power Inn Road & Florin Rd	Signal	F	123.9	Signal	F	128.8	No	Signal	F	88.9	Signal	E	74.9	No
87 Florin Perkins Road & Florin Rd	Signal	E	74.5	Signal	E	79.7	No	Signal	E	72.3	Signal	E	79.8	No
88 Bradshaw Rd & Calvine Rd	Signal	С	32.5	Signal	D	38.3	No	Signal	D	47.3	Signal	D	51.1	No
89 Vineyard Rd & Calvine Rd	Signal	С	30.5	Signal	С	30.6	No	Signal	D	35.3	Signal	С	34.6	No
90 Excelsior Road & Calvine Rd	Signal	С	22.8	Signal	D	38.3	No	Signal	с	20.2	Signal	С	22.7	No
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	F	169.9	Signal	F	184.3	Yes	Signal	F	123.9	Signal	F	158.3	Yes
92 Grant Line Rd & Calvine Rd	Signal	С	20.5	Signal	С	30.7	No	Signal	С	28.5	Signal	В	17.3	No
93 Grant Line Rd & Dwy/Wilton Rd	Signal	F	89.4	Signal	F	93.9	No	Signal	E	61.6	Signal	F	86.6	Yes

Table 5.5														
MTP Cumulative Plus FOUR PROJECTS Intersection Levels of Servi	се				,						DM Dook Hour			
Intersection	MTF No FO	P Cumulativ UR PROJE	ve CTS	MTP Cum	ulative Plus	s FOUR		MTF No FO	P Cumulativ UR PROJE	re CTS	MTP Cum P	ulative Plus ROJECTS	FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
94 Grant Line Rd & Bond Rd/Wrangler Dr	Signal	D	39.8	Signal	D	48.9	No	Signal	D	52.4	Signal	D	42.3	No
95 Florin Perkins Road & 14th Avenue	Signal	D	54.3	Signal	E	61.0	Yes	Signal	D	49.4	Signal	D	54.6	No
96 Jackson Road & 14th Avenue	Signal	D	43.1	Signal	F	120.1	Yes	Signal	С	27.6	Signal	D	51.5	No
97 Rock Creek Pkwy & Jackson Road	Signal	С	22.9	Signal	D	45.0	No	Signal	D	54.1	Signal	D	48.4	No
99 Rancho Cordova Pkwy & US-50 WB Ramps	Signal	D	37.9	Signal	D	46.5	No	Signal	С	25.9	Signal	С	21.8	No
100 Rancho Cordova Pkwy & US-50 EB Ramps	Signal	С	26.3	Signal	С	23.0	No	Signal	В	16.5	Signal	D	35.5	No
101 Rancho Cordova Pkwy & Easton Valley Pkwy	Signal	D	42.2	Signal	С	23.8	No	Signal	С	22.7	Signal	D	36.3	No
102 Rancho Cordova Pkwy & White Rock Road	Signal	F	117.1	Signal	F	137.5	Yes	Signal	F	99.3	Signal	F	132.0	Yes
103 Rancho Cordova Pkwy & Douglas Road	Signal	С	31.1	Signal	С	23.8	No	Signal	D	39.0	Signal	С	25.2	No
104 Rancho Cordova Pkwy & Chrysanthy Boulevard/Chrysanthy Blvd	Signal	С	23.8	Signal	D	53.5	No	Signal	С	23.1	Signal	С	29.9	No
105 Rancho Cordova Pkwy & Kiefer Blvd	Signal	С	30.5	Signal	В	18.4	No	Signal	В	16.6	Signal	В	19.6	No
106 Rancho Cordova Pkwy & Grant Line Road	Signal	В	14.3	Signal	В	17.4	No	Signal	В	14.0	Signal	В	13.4	No
107 Americanos Blvd & White Rock Road	Signal	В	10.9	Signal	В	10.7	No	Signal	A	9.3	Signal	В	10.4	No
108 Americanos Blvd & Douglas Road	Signal	С	31.6	Signal	С	25.7	No	Signal	С	28.6	Signal	С	27.4	No
109 Americanos Blvd & Chrysanthy Blvd	Signal	С	24.2	Signal	С	22.0	No	Signal	В	16.1	Signal	В	16.8	No

Table 5.5														
MTP Cumulative Plus FOUR PROJECTS Intersection Levels of Serv	ice			AM Peak Hour	,						PM Peak Hour			
Intersection	MTP No FO	Cumulativ	ve CTS	MTP Cum P	ulative Plus ROJECTS	s FOUR		MTF No FO	P Cumulati	ve CTS	MTP Cum P	ulative Plus ROJECTS	FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
110 Americanos Blvd & Kiefer Blvd	Signal	А	9.3	Signal	В	10.2	No	Signal	А	7.0	Signal	A	8.8	No
111 Grant Line Road & Chrysanthy Blvd	Signal	В	13.4	Signal	В	18.3	No	Signal	В	17.7	Signal	С	20.1	No
112 Hazel Avenue & Easton Valley Pkwy	Signal	F	203.3	Signal	F	177.0	No	Signal	С	25.0	Signal	С	24.5	No
200 Excelsior Road & Collector WJ-1/Collector JT-1	West Jackso F	on/Jackson Project Int.	Township	Signal	E	63.5	No	West Jacks	on/Jackson Project Int.	Township	Signal	D	50.2	No
201 Excelsior Road & Collector WJ-2/Collector JT-2	West Jackso F	West Jackson/Jackson Township Project Int.			D	36.3	No	West Jacks	on/Jackson Project Int.	Township	Signal	E	63.7	No
202 W Collector MS-1 & Kiefer Boulevard	Mather	Project Int. Mather South Project Int.			С	25.3	No	Mather	South Proje	ect Int.	Signal	В	14.7	No
203 Northbridge Dr & Kiefer Boulevard	NewBr	NewBridge Project Int.			В	17.1	No	NewB	ridge Projec	et Int.	Signal	В	16.7	No
204 E Collector MS-1 & Kiefer Boulevard	Mather	South Proje	ect Int.	Signal	В	12.9	No	Mather	South Proje	ect Int.	Signal	В	17.5	No
300 Collector WJ-3 & Jackson Road	West Ja	ckson Proje	ect Int.	Signal	E	58.7	No	West Ja	ickson Proje	ect Int.	Signal	С	28.8	No
301 Collector WJ-4 & Jackson Road	West Ja	ckson Proje	ect Int.	Signal	E	65.4	No	West Ja	ickson Proje	ect Int.	Signal	D	44.5	No
302 Happy Lane & Jackson Road	West Ja	ckson Proje	ect Int.	Signal	E	63.4	No	West Ja	ickson Proje	ect Int.	Signal	D	46.5	No
303 Rock Creek Pkwy & Jackson Road	West Ja	ckson Proje	ect Int.	Signal	D	38.4	No	West Ja	ickson Proje	ect Int.	Signal	D	36.8	No
304 Collector WJ-5 & Jackson Road	West Ja	West Jackson Project Int. West Jackson Project Int.			D	43.2	No	West Ja	ickson Proje	ect Int.	Signal	С	30.3	No
305 Collector WJ-6 & Jackson Road	West Ja	ckson Proje	ect Int.	Signal	С	34.9	No	West Ja	ickson Proje	ect Int.	Signal	D	36.1	No
306 Excelsior Road & Collector WJ-6	West Ja	ckson Proje	ect Int.	Signal	D	53.4	No	West Ja	ickson Proje	ect Int.	Signal	С	22.7	No

WIP Cumulative Plus FOUR PROJECTS Intersection Levels of Servi	lce			AM Peak Hour							PM Peak Hour			
Intersection	MTP No FOI	Cumulativ JR PROJE	/e CTS	MTP Cumu Pl	ulative Plus ROJECTS	s FOUR		MT No FC	P Cumulati DUR PROJI	ve ECTS	MTP Cumu P	ulative Plus ROJECTS	FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS impact
307 S. Watt Avenue & Rock Creek Pkwy	West Jac	ckson Proje	ect Int.	Signal	В	17.3	No	West Ja	ackson Proj	ect Int.	Signal	С	22.8	No
308 Hedge Avenue & Rock Creek Pkwy WB	West Jac	ckson Proje	ect Int.	Roundabout	С	19.3	No	West Ja	ackson Proj	ect Int.	Roundabout	В	10.9	No
309 Hedge Avenue & Rock Creek Pkwy EB	West Jac	ckson Proje	ect Int.	Roundabout	В	11.3	No	West Ja	ackson Proj	ect Int.	Roundabout	В	13.7	No
310 Mayhew Road & Rock Creek Pkwy WB	West Jac	West Jackson Project Int. R   West Jackson Project Int. R		Roundabout	F	162.1	Yes	West Ja	ackson Proj	ect Int.	Roundabout	F	202.2	Yes
311 Mayhew Road & Rock Creek Pkwy EB	West Jackson Project Int. F		Roundabout	F	198.6	Yes	West Ja	ackson Proj	ect Int.	Roundabout	F	92.3	Yes	
312 Bradshaw Road & Rock Creek Pkwy	West Jackson Project Int.			Signal	D	51.1	No	West Ja	ackson Proj	ect Int.	Signal	E	66.0	No
313 Collector WJ-7 & Rock Creek Pkwy	West Jac	ckson Proje	ect Int.	Signal	В	11.9	No	West Ja	ackson Proj	ect Int.	Signal	В	11.2	No
314 Vineyard Road/Happy Lane & Rock Creek Pkwy	West Jac	ckson Proje	ect Int.	Signal	D	47.4	No	West Ja	ackson Proj	ect Int.	Signal	E	57.2	No
315 Douglas Road & Rock Creek Pkwy	West Jac	ckson Proje	ect Int.	Signal	D	36.2	No	West Ja	ackson Proj	ect Int.	Signal	С	30.4	No
316 Bradshaw Road & Collector WJ-8	West Jac	ckson Proje	ect Int.	Signal	D	47.3	No	West Ja	ackson Proj	ect Int.	Signal	С	22.2	No
317 Bradshaw Road & Collector WJ-9	West Jac	ckson Proje	ect Int.	Signal	E	60.0	No	West Ja	ackson Proj	ect Int.	Signal	С	30.4	No
318 Bradshaw Road & Mayhew Road	West Jac	ckson Proje	ect Int.	Signal	F	161.6	Yes	West Ja	ackson Proj	ect Int.	Signal	F	127.4	Yes
319 Bradshaw Road & Collector WJ-10	West Jac	ckson Proje	ect Int.	Signal	В	10.8	No	West Ja	ackson Proj	ect Int.	Signal	С	25.7	No
320 Bradshaw Road & Collector WJ-11	West Jac	ckson Proje	ect Int.	Signal	В	12.9	No	West Ja	ackson Proj	ect Int.	Signal	С	23.0	No
321 Collector WJ-12 & Fruitridge Road	West Jac	ckson Proje	ect Int.	Signal	С	33.1	No	West Ja	ackson Proj	ect Int.	Signal	D	45.0	No

Table 5.5	e AM P													
MTP Cumulative Plus FOUR PROJECTS Intersection Levels of Servi	ce			AM Peak Hour							PM Peak Hour			
Intersection	MTP No FO	Cumulativ	re CTS	MTP Cumi Pl	ulative Plus ROJECTS	FOUR		MT No FC	P Cumulat )UR PROJ	ive ECTS	MTP Cumu Pl	ulative Plus ROJECTS	FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS impact
322 Mayhew Road & Collector WJ-13	West Ja	ckson Proje	ct Int.	Signal	В	11.7	No	West Ja	ackson Proj	ect Int.	Signal	С	21.1	No
323 Collector WJ-14 & Kiefer Boulevard	West Ja	ckson Proje	ct Int.	Signal	D	45.8	No	West Ja	ackson Proj	iect Int.	Signal	E	61.5	No
324 Collector WJ-15 & Kiefer Boulevard	West Ja	ckson Proje	ct Int.	Signal	D	40.7	No	West Ja	ackson Proj	iect Int.	Signal	С	24.1	No
325 Douglas Road & Kiefer Boulevard	West Ja	West Jackson Project Int.   West Jackson Project Int.		Signal	F	207.5	Yes	West Ja	ackson Proj	iect Int.	Signal	F	127.5	Yes
326 Happy Lane & Mayhew Road	West Jackson Project Int.			Roundabout	F	304.2	Yes	West Ja	ackson Proj	iect Int.	Roundabout	F	139.6	Yes
327 Vineyard Road & Elder Creek Road	West Jackson Project Int.			Signal	D	47.8	No	West Ja	ackson Proj	iect Int.	Signal	D	38.4	No
328 Vineyard Road & Florin Road	West Jack Cumula	son Project	CEQA ction	Signal	С	25.0	No	West Jac Cumul	kson Proje ative Inters	ct/CEQA ection	Signal	В	13.8	No
400 Collector JT-3 & Jackson Road	Jackson To	ownship Pro	oject Int.	Signal	D	48.1	No	Jackson T	Fownship P	roject Int.	Signal	С	32.9	No
401 Tree View Lane & Jackson Road	Jackson To	ownship Pro	oject Int.	Signal	В	16.5	No	Jackson T	Fownship P	roject Int.	Signal	В	11.6	No
402 Collector JT-4 & Jackson Road	Jackson To	ownship Pro	oject Int.	Signal	С	21.4	No	Jackson T	Fownship P	roject Int.	Signal	В	15.8	No
403 Tree View Lane & Collector JT-5	Jackson To	ownship Pro	oject Int.	Signal	В	18.9	No	Jackson T	Fownship P	roject Int.	Signal	С	21.2	No
404 Tree View Lane & Collector JT-6	Jackson To	ownship Pro	oject Int.	Signal	В	11.7	No	Jackson T	Fownship P	roject Int.	Signal	В	12.9	No
405 Tree View Lane & Collector JT-1	Jackson To	Jackson Township Project Int. Jackson Township Project Int.			С	27.3	No	Jackson T	Fownship P	roject Int.	Signal	С	24.3	No
406 Tree View Lane & Kiefer Boulevard	Jackson To	ownship Pro	oject Int.	Signal	С	29.4	No	Jackson T	Fownship P	roject Int.	Signal	В	17.5	No
407 HS/MS Dwy & Kiefer Boulevard	Jackson To	ownship Pro	oject Int.	Signal	С	20.8	No	Jackson T	Fownship P	roject Int.	Signal	С	20.3	No

MII	<sup>2</sup> Cumulative Plus FOUR PROJECTS Intersection Levels of Servi	ce													
					AM Peak Hour							PM Peak Hour			
		MTF	P Cumulativ	/e	MTP Cumu	lative Plu	s FOUR		MTF	P Cumulativ	e	MTP Cumu	lative Plus	FOUR	
	Intersection	No FO	UR PROJE	CTS	PF	ROJECTS		I OS Impact	No FO	UR PROJE	CTS	PF	ROJECTS		I OS Impact
		Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)		Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	200 111000
500	Rockbridge Dr & Jackson Road	NewBr	idge Projec	t Int.	Signal	С	27.6	No	NewBi	ridge Project	Int.	Signal	В	14.1	No
501	Eagles Nest Road & N Bridgewater Dr	NewBr	ridge Projec	t Int.	Signal	A	7.1	No	NewBi	ridge Project	: Int.	Signal	В	10.4	No
502	PEagles Nest Road & S Bridgewater Dr	NewBr	NewBridge Project Int.		Signal	С	30.5	No	NewBi	ridge Project	: Int.	Signal	С	26.6	No
600	Zinfandel Drive & Collector MS-2	Mather South Project Int.		Signal	В	17.9	No	Mather	South Proje	ct Int.	Signal	С	33.5	No	
601	Zinfandel Drive & Collector MS-3	Mather	Mather South Project Int.		Signal	В	18.8	No	Mather	South Proje	ct Int.	Signal	В	18.2	No
602	Zinfandel Drive & Collector MS-4	Mather	South Proje	ect Int.	Signal	D	40.1	No	Mather	South Proje	ct Int.	Signal	В	19.9	No
603	Collector MS-5 & Collector MS-2	Mather	South Proje	ect Int.	All-way stop	В	11.5	No	Mather	South Proje	ct Int.	All-way stop	В	12.5	No
604	Collector MS-5 & Collector MS-3				Two-way stop	А	7.7	No				Two-way stop	А	7.2	No
	Northbound Left Turn	Mather	South Proie	ect Int		Α	7.5		Mather	South Proie	ct Int		Α	7.5	
	Southbound Left Turn	matrio	eeuun roje			A	0.0		matrio	eedan roje			Α	0.0	
	Eastbound					В	10.3						В	14.3	
	Westbound					В	12.5						В	14.3	
605	Collector MS-5 & Collector MS-4	Westbound Mather South Project Int.		All-way stop	D	26.4	No	Mather	South Proje	ct Int.	All-way stop	D	31.5	No	
606	Collector MS-5 & W Collector MS-1/E Collector MS-1	Mather	South Proje	ect Int.	All-way stop	С	24.6	No	Mather	South Proje	ct Int.	All-way stop	Е	35.5	No

I able 5.6											
MTP Cumulative and MTP Cumulative Plus FOUR PROJECTS Inter	section Geometric	S Control		MTP Cumulative	Lana Geometrics		MTP Cum	ulative Plue FOLIR	PRO IECTS I ana (	Seometrics	
Intersection	MTP Cumulative	MTP Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
1 Howe Avenue & College Town Drive/US 50 WB Ramps	Signal	Signal	111 r		<u> </u>	<u> </u>	111 r	₽↓↓↓↓	ግ ፖፖ	<u> </u>	
2 Howe Avenue & US 50 EB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow$	<u> </u>		111 r	$\downarrow \downarrow \downarrow \downarrow_{\bullet}$	ኻኻፖፖ		
3 Power Inn Road/Howe Avenue & Folsom Blvd	Signal	Signal	<u>ה</u> הוויי	~+++ <i>r</i> ~	<u>ካ</u> ካ† ሾ	<u>אא</u> ור ממ	<u>ካ</u> ካተተ ፖ	5 T T T T 7 7	<u>ካ</u> ካ† ሾ	<u>ካካ†† ፖፖ</u>	
4 Power Inn Road & 14th Avenue	Signal	Signal	511 ř		ካተ ሾ	<u>ን</u> † ፖ	<u> </u>	~+++~	ካ† ሾ	ካ† ፖ	
5 Power Inn Road & Fruitridge Road	Signal	Signal	<u> ካ</u> ካተኛ	511 <i>77</i>	ካ† ሾ	stt c	<u>ካ</u> ካ†ሾ	511 <i>77</i>	ካተ ፖ	ካተተ ፖ	
6 Jackson Road/Notre Dame Dr. & Folsom Blvd.	Signal	Signal	<u>ካ</u> ኘ ፖ	4	<u>ካተተ ፖ</u>	ካተተ ፖ	ጓኘ ፖ	42	ካተተ ፖ	<u>ካተተ ፖ</u>	
7 Florin Perkins Road/Julliard Dr. & Folsom Boulevard	Signal	Signal	<u>ነ</u> ኘ ፖ	44	ካተተ ፖ	nt ř	ጓኘ ፖ	44	ካተተ ፖ	ካተ ፖ	
8 Florin Perkins Road & Kiefer Blvd.	Two-way stop	Two-way stop	t 7	$\downarrow \downarrow r$		ሻሾ	1 P	$\downarrow \downarrow r$		<u> </u>	
9 Florin Perkins Road & Jackson Road	Signal	Signal	<u>ካተተ ፖ</u>	414	ካተተ ፖ	st r	ካተተ ፖ	414	ካተተ ፖ	nt ř	
10 Florin Perkins Road & Fruitridge Road	Signal	Signal	<u>ካተተ ፖ</u>	~++ <i>F</i>	<u>ካተተ ፖ</u>	st ř	<u>ካተተ ፖ</u>	21 I V	ካተተ ፖ	ካ† ሾ	
11 Florin Perkins Road & Elder Creek Road	Signal	Signal	<u>ካተተ ፖ</u>	~++ <i>F</i>	<u>ካተተ ፖ</u>	ካተተ ፖ	<u>ካተተ ፖ</u>	21 I V	ካተተ ፖ	<u>ካተተ ፖ</u>	
12 Watt Avenue & Folsom Blvd.	Signal	Signal	ካ ነ 1 1 ሰ	~\\\ <i>\</i>	<u>ካካተተ ፖ</u>	<u> </u>	ካካተተ ፖ	~\\\ <i>\\</i>	<u>ካካ†† ፖ</u>	<u>ካካተተ ፖ</u>	
13 S. Watt Ave. & Reith Ct/Manlove Road	Signal	Signal	5111 r	4117	Ý	ጓዮፖ	sttt r	4112	Ý	ጓዮፖ	
14 S. Watt Avenue & Kiefer Blvd.	Signal	Signal	<u>ካካተተ</u> ኛ	41177	<u>ካካተተ ፖ</u>	<u> </u>	<u>ካ</u> ካተተ ሾ	41177	<u>ካካ††</u> ፖ	<u>ካካተተ ፖ</u>	
15 S. Watt Avenue & Canberra Dr.	Signal	Signal	11 r	$\uparrow \uparrow \uparrow r$		ኻሾ	11 r	TTT <i>r</i>		<u></u> ንፖ	
16 S. Watt Avenue & Jackson Road	Signal	Signal	ካ ነ 1 1 ሰ	~\\\ <i>\</i>	<u>ካካተተ ፖ</u>	<u> </u>	ካካተተ ፖ	~\\\ <i>\\</i>	<u>ካካ††</u> ፖ	<u>ካካተተ ፖ</u>	West Jackson
17 S. Watt Avenue & Fruitridge Road	Signal	Signal	sttt r	NT T R	ካ† ፖ	<u></u> ነ ሾ	ካተተ ፖ	NTT R	ካ† ፖ	ጓተ ሾ	West Jackson
18 S. Watt Avenue & Elder Creek Road	Signal	Signal	<u>ካካ†† ፖ</u>	N † † K	<u>ካካ</u> † ፖ	ካ† ፖ	<u>ካካተተ ፖ</u>	2 I I V	<u>ካካ</u> † ፖ	ካ† ፖ	
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	Signal	ጓተሾ	415	ጓተ ሾ	ካተተ ፖ	ጓተኛ	415	ጓተ ሾ	ካተተ ፖ	
21 Elk Grove Florin Road & Gerber Road	Signal	Signal	<u> </u>	2 I I I I I I I I I I I I I I I I I I I	<u>ካካ††</u> ፖ	<u>ካካተተ ፖ</u>	<u> </u>	2 I I V V	<u>ካካ††</u> ፖ	<u>ካካ††</u> ፖ	
23 Hedge Avenue & Jackson Road	Signal	Signal	<u>ካ</u> ኛ	45	ካ† ፖ	ካ† ፖ	ካሾ	45	ጓተ ሾ	ካተ ሾ	West Jackson
24 Hedge Avenue & Fruitridge Road	All-way stop	Signal	Ŷ	*	Ý	Ý	ኻ↑ሾ	245	ጓተ ፖ	ካተ ሾ	West Jackson
25 Hedge Avenue & Elder Creek Road	All-way stop	Signal	Ŷ	*	Ŷ	Ý	ኻ↑ሾ	24 K	ካ† ሾ	ካተ ሾ	West Jackson
26 Hedge Avenue & Tokay Lane	Two-way stop	Two-way stop	Ý	*	Ý	Ý	Ý	*	Ý	Ý	
27 Hedge Avenue & Florin Road	Signal	Signal	Ŷ	*	ጓተ ሾ	ካተ ሾ	Ý	*	ጓተ ሾ	ጓተ ሾ	
28 Mayhew Road & Kiefer Boulevard	Signal	Signal	ጓተጽ	215	ካ† ሾ	nt r	ኻ↑ሾ	215	ካ† ሾ	ካ† ሾ	

Table 5.6											
MTP Cumulative and MTP Cumulative Plus FOUR PROJECTS Interse	ection Geometric	S									
	Traffic	Control		MTP Cumulative	Lane Geometrics		MTP Cum	alative Plus FOUR	PROJECTS Lane G	Beometrics	Project(s)
Intersection	MTP Cumulative	MTP Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Responsible for Change
29 Mayhew Road & Jackson Road	Two-way stop	Signal	ላ ፖ	*	ካ† ፖ	ካሾ	ካካ†† ፖ	21172	ካካተተ ፖ	ካካተተ ፖ	West Jackson
30 Mayhew Road & Fruitridge Road	Two-way stop	Signal	7	4	Y		<u> </u>	~↓↓	ኻኻሾ		West Jackson
31 Mayhew Road & Elder Creek Road	Two-way stop	Signal	Ŷ	*	Ŷ	*	Ý	*	Ŷ	ካ† ፖ	West Jackson
32 Zinfandel Drive & Woodring Drive	Two-way stop	Two-way stop	<b>ħ</b> ††	4↓	Y		<u>ካ</u> ††	4↓	Y		
33 Bradshaw Road & Folsom Blvd.	Signal	Signal	<u>ካ</u> ካተሾ	2 I I V	ካተተ ፖ	<u>ካካ†† ፖ</u>	<u>ካ</u> ካተኛ	2 I I V	ካተተ ፖ	<u>ካካ†† ፖ</u>	
34 Bradshaw Road & US 50 WB Ramps	Signal	Signal	111 r	⊥ † † ∿		<u> </u>	111 r	⊥ † † ∿		<u> </u>	
35 Bradshaw Road & US 50 EB Ramps	Signal	Signal	111 r	⊥ † † ∿	<u> </u>		111 r	⊥ † † ∿	<u> </u>		
36 Bradshaw Road & Old Placerville Road	Signal	Signal	5111 r	41144	<b>ካ</b> ሾ	<u>ካካ</u> † ፖ	ntt r	41144	<b>٦</b> ٢	ኻኻ† ፖ	
37 Bradshaw Road & Kiefer Boulevard	Signal	Signal	ካካተተ ፖ	~+++~~	<u>ካካተተ ፖ</u>	<u>ካካ</u> † ሾ	ካካተተ ፖ	5111 <i>22</i>	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	West Jackson
38 Bradshaw Road & Jackson Road	Signal	Signal	<u>ה</u> ור לי	~+++ <i>r</i>	ካ† ፖ	ካ† ፖ	ካካተተ ፖ	5111 <i>22</i>	ካካተተ ፖ	ካካተተ ፖ	West Jackson
39 Bradshaw Road & Elder Creek Road	Signal	Signal	ntt r	4112	ኻኻሾ	ኻኻሾ	511 ř	~+++ <i>rr</i>	ኻኻሾ	<u>ካካተተ ፖ</u>	West Jackson
40 Bradshaw Road & Florin Road	Signal	Signal	ካካተተ ፖ	511177	<u>ካካ</u> ተ ሾ	<u>ካካ</u> † ሾ	ካካተተ ፖ	~+++ <i>r</i> ~	<u>ካካ</u> † ሾ	<u>ካካ</u> † ሾ	
41 Bradshaw Road & Gerber Road	Signal	Signal	<u>ካ</u> ካተተ ፖ	~+++~~	<u>ካካተተ ፖ</u>	ጓተተ ፖ	ካካተተ ፖ	5111 <i>22</i>	<u>ካካተተ ፖ</u>	ካተተ ፖ	
42 Happy Lane & Old Placerville Road	Two-way stop	Two-way stop	<u></u> ንፖ		1 r	<u>ካ</u> †	ኻሾ		1 r	<b>ħ</b> †	
43 Happy Lane & Kiefer Boulevard		Signal					<u>ካካተተ ፖ</u>	N † † 7.7	ካካተተ ፖ	ካካተተ ፖ	West Jackson
44 Excelsior Road & Kiefer Boulevard	Two-way stop	Signal	r	4		Y	ntr.	NT K	nt r	nt r	West Jackson; Jackson Township
45 Excelsior Road & Jackson Road	Signal	Signal	った	214	<u>ה</u> ו ד	<u>א</u> ו ד	ካሾ	~++~~	55111 r	55111 r	West Jackson; Jackson Township
46 Excelsior Road & Elder Creek Road	Two-way stop	Signal	Ń	ل د	Y		<b>n</b> †	↓↓	<u> </u>		West Jackson
47 Excelsior Road & Florin Road	All-way stop	Signal	Ŷ	*	Ŷ	*	ካሾ	45	ካሾ	ካሾ	West Jackson
48 Excelsior Road & Gerber Road/Birch Ranch Drive	All-way stop	All-way stop	Ŷ	*	Ŷ	*	Ý	*	Ŷ	Ŷ	
49 Mather Field Road & US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow$		<b>∿</b> ∲	111 r	$\downarrow \downarrow \downarrow \downarrow$		<b>∿</b> ∲	
50 Mather Field Road & US 50 EB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow_{\mathbf{v}}$	<u></u> ን፝፝፝፞፞፞፞፞		111 r	$\downarrow \downarrow \downarrow \downarrow$	<b>፝</b> \ <i>\</i> ≁ፖ		
51 Mather Field Road & Rockingham Drive	Signal	Signal	<u>ה</u> ור לי	~+++ <i>r</i>	ካኘ ፖ	۲ r	<u>n</u> t t tr	~+++ <i>r</i>	ካኘ ፖ	ላ ፖ	
52 Mather Boulevard & Douglas Road	Signal	Signal		27	<u>s</u> ††	t 77		25	<u>n</u> ††	t 7	
53 Zinfandel Drive & US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow$		<u> </u>	111 r	$\downarrow \downarrow \downarrow \downarrow$		<u> </u>	

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Table 5.6	action Geometric										
MTP Cumulative and MTP Cumulative Plus FOOR PROJECTS Inters	Traffic	Control		MTP Cumulative	Lane Geometrics		MTP Cumu	Ilative Plus FOUR	PROJECTS Lane C	Geometrics	
Intersection	MTP Cumulative	MTP Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	Signal	t t t t tr	††† <i>ب</i>	<u>ካ</u> የፖ	77	t t t t tr	$\downarrow \downarrow \downarrow \downarrow_{u}$	<u>ካ</u> የፖ	77	
55 Zinfandel Drive & White Rock Road	Signal	Signal	<u>ካ</u> ካተተ ሾ	~+++~~	<u> </u>	<u>ካካ</u> † ዮጵ	<u>ካ</u> ካተተ ሾ	$\mathbf{v} \downarrow \downarrow \downarrow \uparrow \mathbf{v} \mathbf{v}$	<u>ካካተተ ዮ</u>	<u>ካካ</u> † ዮጵ	
56 Zinfandel Drive & Data Drive	Signal	Signal	<u> ነ</u> ተተ ሥ	4115	ኁ፟	ን የ ፖ	ntt M	4115	ኁ፟	ን የ ፖ	
57 Zinfandel Drive & International Dr	Signal	Signal	<u> </u>	41166	ካካተተ ሾ	ካካተተ ፖ	ካካ111 ፖ	41177	ካካ†† ሾ	ካካ111 ፖ	
58 Zinfandel Drive & Douglas Road	Signal	Signal	ካሾ	245	ጓተ ፖ	<u> </u>	ካሾ	245	ጓተ ፖ	<u>ካካተተ ፖ</u>	
59 Eagles Nest Road/Zinfandel Drive & Kiefer Boulevard	Two-way stop	Signal	† r	Τr		Y	<u>ካካተተ ሮ</u>	2 I I V V	<u>ካካ††                                  </u>	ካካተተ ፖ	NewBridge; Mather South
60 Eagles Nest Road & Jackson Road	Signal	Signal	Ý	*	ካሾ	ካሾ	ኻ↑ሾ	245	ካካ† ሾ	str a	NewBridge
61 Eagles Nest Road & Florin Road	Two-way stop	Two-way stop	Ý	*	Ý	Ý	*	*	*	Ý	
62 Sunrise Boulevard & US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow$		<u> </u>	111 r	$\downarrow \downarrow \downarrow \downarrow$		<u> </u>	
63 Sunrise Boulevard & US 50 EB Ramps	Signal	Signal	1111 r	⊥ † † ∿	<u> </u>		1111 r	ן ו ו י	ኻኻኻሾሾ		
64 Sunrise Boulevard & Folsom Boulevard	Signal	Signal	<u> </u>	5111 <i>77</i>	<u>ካካ††</u> ፖ	<u>ካካ</u> ተ ዮጵ	<u> </u>	~\\\ <i>\\</i>	<u> </u>	<u>ካካ</u> ተ ዮጵ	
65 Sunrise Boulevard & White Rock Road	Signal	Signal	<u> </u>	5111 <i>77</i>	<u>ካካ†† ፖ</u>	ካካተተ ፖ	ካካ111 ፖ	211177	<u>ካካ†† ፖ</u>	ካካ111 ፖ	
66 Sunrise Boulevard & International Drive/Monier Circle	Signal	Signal	ካካተተ ሾ	$\gamma \uparrow \uparrow \uparrow \gamma$	<u>ካካ† ፖፖ</u>	ካሾ	ካካተተ ሾ	¥↓↓↓≶	ካካ‡ ፖፖ	ካሾ	
67 Sunrise Boulevard & Douglas Road	Signal	Signal	<u>ה ווורר</u>	₩↓↓↓ <i>KK</i>	<u>ካካተተ</u> ሾ	ካካ†† ፖ	<u>እ</u> እበበበ ለ	₽↓↓↓₩₩	<u>ካካተተ</u> ሾ	<u>ካካ†† ፖ</u>	
68 Sunrise Boulevard & Chrysanthy Boulevard	Signal	Signal	111 <b>r</b>	$\uparrow$ $\uparrow$ $r$ $r$		ኻኻሾ	111 <i>r</i>	$\downarrow \uparrow rrr$		ኻኻሾ	
69 Sunrise Boulevard & Kiefer Boulevard	Signal	Signal	<u>ነ</u> በር የ	4155	*	ላ ፖ	<u>ነ</u> በር የ	4166	<u>ካካ††</u> ፖ	1 r	NewBridge; Mather South
70 Sunrise Boulevard & Jackson Road	Signal	Signal	ጓተተ ፖ	~++~	ካ† ፖ	ካ† ፖ	<u>ካካተተ ፖ</u>	21166	<u> </u>	<u>ካካተተ ፖ</u>	NewBridge
71 Sunrise Boulevard & Florin Road	Signal	Signal	<b>n</b> ††	4↓	Y		<b>ħ</b> ††	4↓	Y		
72 Sheldon Lake Drive/Sunrise Boulevard & Grant Line Road	Signal	Signal	Ý	₹ <b>₩</b>	ካተተ ፖ	ካ† ሾ	*	٦٢	ካተተ ፖ	ጓተ ሾ	
73 Hazel Avenue & Tributary Point Drive/US 50 WB Off-ramp	Signal	Signal	<u> </u>	$\downarrow \downarrow \downarrow \downarrow \downarrow$	7	N 77	<u> </u>	$\downarrow \downarrow \downarrow \downarrow \downarrow$	r	N 77	
74 Hazel Avenue & US 50 EB Ramps	Signal	Signal	11 r	$\downarrow \downarrow \downarrow \downarrow$	<u> </u>		t t <i>t</i> r	ל † לי	<u> </u>		
75 Hazel Avenue & Folsom Boulevard			↓ ↑	↓ ↑	↓ ↑	↓ ↑	↓ ↑	↓ ↑	↓ ↑	↓ ↑	
76 Prairie City Road & White Rock Road	Signal	Signal		25	<u>ካ</u> ካ††	11 r		25	<u> </u>	11 r	
77 Grant Line Road & White Rock Road	Signal	Signal	<u>n</u> ††	↓↓ L	ኻኻሾ		<b>n</b> ††	$\downarrow \downarrow \downarrow$	ኻኻሾ		
78 Grant Line Road & Douglas Road	Signal	Signal	<u> </u>	↓ ↓	ኻኻሾ		<u> </u>	$\downarrow \downarrow \downarrow$	ኻኻሾ		

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Table 5.6											
MTP Cumulative and MTP Cumulative Plus FOUR PROJECTS Interse	ction Geometric	S									
	Traffic	Control		MTP Cumulative	Lane Geometrics		MTP Cum	ulative Plus FOUR	PROJECTS Lane C	Beometrics	
Intersection	MTP Cumulative	MTP Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
79 Grant Line Road & Kiefer Boulevard	Signal	Signal	<u>ካካተተ ፖ</u>	~++ <i>F</i>	ካካ† ፖ	ካ† ፖ	<u>ካካተተ ፖ</u>	~++ <i>r</i>	ካካ† ፖ	ካ† ፖ	
80 Grant Line Road & Jackson Road	Signal	Signal	<u> ነ</u> ተ ፖ	415	٦ř	٦ř	<u> ነ</u> ተ ፖ	415	<b>٦</b> ٢	٦ř	
81 Watt Avenue & US-50 EB Ramps	Signal	Signal	1111 r	↓↓↓ ↓	<u> </u>		1111 r	<i>↓</i> ↓↓↓	<u> </u>		
82 Watt Avenue & US-50 WB Ramps	Signal	Signal	11 rr	~4↓↓↓		<u> </u>	11 rr	24 I I I		<u> </u>	
83 Mayhew Rd & Folsom Blvd.	Signal	Signal	ኻኻሾ		11 r	<b>n</b> ††	ኻኻሾ		11 r	<b>n</b> ††	
84 65th Street Expy & Fruitridge Road	Signal	Signal	ካተተ ፖ	~++ <i>F</i>	<b>n</b> ††	ካተተ ፖ	ካተተ ፖ	~++ F	<b>n</b> ††	<u>ካተተ ፖ</u>	
85 Power Inn Road & Elder Creek Road	Signal	Signal	<u>ካ</u> ተኛ	414	ካተተ ፖ	ካ† ሾ	<u> ነ</u> ተ ዮ	415	ካተተ ፖ	ካ† ሾ	
86 Power Inn Road & Florin Rd	Signal	Signal	<u>ካ</u> ተ ሾ	211V	ntt r	<u>ካተተ ፖ</u>	<u>ካ</u> ተዮ	21 T P	ntt r	<u>ካተተ ፖ</u>	
87 Florin Perkins Road & Florin Rd	Signal	Signal	<u>ካተተ ፖ</u>	211V	nt ř	ካ† ሾ	<u>ካተተ ፖ</u>	~++ r	nt ř	nt ř	
88 Bradshaw Rd & Calvine Rd	Signal	Signal	<u>ካ</u> ካተኛ	211 <i>22</i>	55111 r	<u>ካ</u> ካተተ ፖ	<u>ካ</u> ካተኛ	51177	55111 r	<u>ካካ††</u> ፖ	
89 Vineyard Rd & Calvine Rd	Signal	Signal	Ŷ	266	ካ† ሾ	<u>ካ</u> ተ ሾ	Ý	275	ካ† ሾ	st ř	
90 Excelsior Road & Calvine Rd	Signal	Signal	ኻ↑ሾ	245	nt ř	ጓተ ሾ	ኻ↑ሾ	245	nt ř	nt ř	
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	Signal	ካተተ ፖ	415	Ý	ካሾ	ግተተ ፖ	415	Ý	ካሾ	
92 Grant Line Rd & Calvine Rd	Signal	Signal	<b>n</b> ††	4↓	ንሮ		<b>n</b> ††	4↓	ካፖ		
93 Grant Line Rd & Dwy/Wilton Rd	Signal	Signal	<u>ካ</u> ተኛ	415	٦ř	ኁሾ	ntr	415	٦ř	٦ř	
94 Grant Line Rd & Bond Rd/Wrangler Dr	Signal	Signal	<u>ካ</u> ተ ሾ	~++ <i>r</i>	۲ <i>۳</i>	Ý	<u>ካ</u> ተዮ	~++~	۲ <i>۳</i>	Ý	
95 Florin Perkins Road & 14th Avenue	Signal	Signal	<u>ካካተተ ፖ</u>	2 I I V V	<u>ካካተተ ፖ</u>	<u>ካካ†† ፖ</u>	<u>ካካተተ ፖ</u>	2 I I V V	<u>ካካተተ ፖ</u>	<u>ካካ†† ፖ</u>	
96 Jackson Road & 14th Avenue	Signal	Signal		77	n††	11 <b>r</b>		77	n††	11 r	
97 Rock Creek Pkwy & Jackson Road	Signal	Signal	ኻሾ		t 17	<b>n</b> ††	ኻሾ		t 7	<b>n</b> ††	
98 Aspen 1 Access Road & Jackson Road											
99 Rancho Cordova Pkwy & US-50 WB Ramps	Signal	Signal	ኻኻ			<b>٦</b> ٩	ኻኻ			<b>۲</b> ۴	
100 Rancho Cordova Pkwy & US-50 EB Ramps	Signal	Signal	ጎ <b>ኮ</b> ল	$\downarrow \downarrow \checkmark$	<b>۲</b> ۲		1 ዮ <i>ዮ</i>	$\downarrow \downarrow \checkmark$	<b>۳</b> ۳		
101 Rancho Cordova Pkwy & Easton Valley Pkwy	Signal	Signal	11 r	$\uparrow$ $\uparrow$ $r$ $r$		ኻኻሾ	11 r	1 † <i>r r</i> r		ኻኻሾ	
102 Rancho Cordova Pkwy & White Rock Road	Signal	Signal	ካካተተ ፖ	~\\\ <i>\\</i>	<u>ካካተተ ፖ</u>	<u> ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	~\\\ <i>\</i>	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	
103 Rancho Cordova Pkwy & Douglas Road	Signal	Signal	<u>ካካተተ ፖ</u>	211 <i>22</i>	55111 r	<u> ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	211 <i>2</i> 2	55111 r	<u>ካካተተ ፖ</u>	
104 Rancho Cordova Pkwy & Chrysanthy Boulevard/Chrysanthy Blvd	Signal	Signal	<u>ካካተተ ፖ</u>	211 <i>22</i>	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	2 I I I I I I I I I I I I I I I I I I I	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	

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l able 5.6											
MTP Cumulative and MTP Cumulative Plus FOUR PROJECTS Interse	ection Geometric	S									
	Traffic	Control		MTP Cumulative	Lane Geometrics		MTP Cum	ulative Plus FOUR	PROJECTS Lane G	Geometrics	
Intersection	MTP Cumulative	MTP Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
105 Rancho Cordova Pkwy & Kiefer Blvd	Signal	Signal	ካተተ ፖ	511 <i>77</i>	ካ† ፖ	ካካ† ፖ	ካተተ ፖ	21177	ካ† ፖ	<u>ካካ</u> † ፖ	
106 Rancho Cordova Pkwy & Grant Line Road	Signal	Signal		24	<u>ካ</u> ካ††	11 r		25	<u>ካ</u> ካ††	11 r	
107 Americanos Blvd & White Rock Road	Signal	Signal	<u>ነ</u> ኛ		11 r	ካካ††	ንስ		11 r	<u>ካካ</u> ††	
108 Americanos Blvd & Douglas Road	Signal	Signal	<u>ካካ</u> † ፖ	245	ካተተ ፖ	<u>ካካ†† ፖ</u>	<u>ካካ</u> † ፖ	$r \downarrow r$	<u>ካተተ ፖ</u>	<u>ካካ†† ፖ</u>	
109 Americanos Blvd & Chrysanthy Blvd	Signal	Signal	<u>ካካ†† ፖ</u>	N † † K	እኳ↑ ፖ	ካ† ፖ	<u>ካካ†† ፖ</u>	2116	<u>ካካ</u> † ፖ	ካ† ፖ	
110 Americanos Blvd & Kiefer Blvd	Signal	Signal		24	<u>ካ</u> ካ††	11 r		25	<u>ካካ</u> ††	11 r	
111 Grant Line Road & Chrysanthy Blvd	Signal	Signal	<b>ħ</b> ††	$\downarrow \downarrow$	<u> </u>		<b>n</b> ††	↓↓ 4	<u></u> ንፖ		
112 Hazel Avenue & Easton Valley Pkwy	Signal	Signal	ኻ↑ሾ	2155	<u>ካካ†† ፖ</u>	ካተተ ፖ	<u>ካ</u> ሰጽ	2155	<u>ካካተተ ፖ</u>	ካተተ ፖ	
200 Excelsior Road & Collector WJ-1/Collector JT-1		Signal					51 M	415	nt e	nt e	West Jackson; Jackson Township
201 Excelsior Road & Collector WJ-2/Collector JT-2		Signal					ካተዮ	415	nt e	nt e	West Jackson; Jackson Township
202 W Collector MS-1 & Kiefer Boulevard		Signal						2 L	<u>ካካ</u> ††	r 1	NewBridge; Mather South
203 Northbridge Dr & Kiefer Boulevard		Signal					ንሮ		t tr	<b>n</b> ††	NewBridge; Mather South
204 E Collector MS-1 & Kiefer Boulevard		Signal						2 L	<b>n</b> ††	11 r	NewBridge; Mather South
300 Collector WJ-3 & Jackson Road		Signal					<u></u> ነፖ		t tr	<u>n</u> ††	West Jackson
301 Collector WJ-4 & Jackson Road		Signal					ኻተኛ	214	ካተተ ሥ	<u>א וור</u>	West Jackson
302 Happy Lane & Jackson Road		Signal					ካካተተ ፖ	211 <i>2</i> 2	ካካ111 ፖ	ካካተተ ፖ	West Jackson
303 Rock Creek Pkwy & Jackson Road		Signal					ጓተጽ	212	<u> </u>	ካካተተ ሾ	West Jackson
304 Collector WJ-5 & Jackson Road		Signal					<u>ካ</u> ተኛ	214	ntt k	ntt k	West Jackson
305 Collector WJ-6 & Jackson Road		Signal					ኻ↑ሾ	215	ntt k	ntt k	West Jackson
306 Excelsior Road & Collector WJ-6		Signal					<b>n</b> †	4↓	<u> ነ</u> ፖ		West Jackson
307 S. Watt Avenue & Rock Creek Pkwy		Signal					11 r	$\uparrow \downarrow \uparrow \land \checkmark$		<u></u> ነፖ	West Jackson
308 Hedge Avenue & Rock Creek Pkwy WB		Roundabout					۲	4		Ŷ	West Jackson
309 Hedge Avenue & Rock Creek Pkwy EB		Roundabout					r	4	Ý		West Jackson
310 Mayhew Road & Rock Creek Pkwy WB		Roundabout					1 1	4↓		Ŷ	West Jackson

Table 5.6											
MTP Cumulative and MTP Cumulative Plus FOUR PROJECTS Inter	rsection Geometric	S									
	Traffic	Control		MTP Cumulative	Lane Geometrics		MTP Cumu	ulative Plus FOUR	PROJECTS Lane (	Geometrics	
Intersection	MTP Cumulative	MTP Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Responsible for Change
311 Mayhew Road & Rock Creek Pkwy EB		Roundabout					t tr	44	1 r		West Jackson
312 Bradshaw Road & Rock Creek Pkwy		Signal					<u>ה</u> וור	4115	<u>ካ</u> ት ፖ	ካ1 ፖ	West Jackson
313 Collector WJ-7 & Rock Creek Pkwy		Signal					Ý	*	*	*	West Jackson
314 Vineyard Road/Happy Lane & Rock Creek Pkwy		Signal					ኻተሾ	414	<u>ካ</u> በ ፖ	ካተ ፖ	West Jackson
315 Douglas Road & Rock Creek Pkwy		Signal					n††	4↓	ኻሾ		West Jackson
316 Bradshaw Road & Collector WJ-8		Signal					1 t t t	TTTR		ኘሾ	West Jackson
317 Bradshaw Road & Collector WJ-9		Signal					11 r	TTT R		ኘሮ	West Jackson
318 Bradshaw Road & Mayhew Road		Signal					55111 r	~++++	<u>ካካተተ ፖ</u>	<u>ካካተተ ሮ</u>	West Jackson
319 Bradshaw Road & Collector WJ-10		Signal					<b>n</b> †††	4↓↓	ኻሾ		West Jackson
320 Bradshaw Road & Collector WJ-11		Signal					<b>n</b> †††	4↓↓	ኻሾ		West Jackson
321 Collector WJ-12 & Fruitridge Road		Signal					<u>ካ</u> † ፖ	214	51 ř	<u> </u>	West Jackson
322 Mayhew Road & Collector WJ-13		Signal					n††	4↓	ኻሾ		West Jackson
323 Collector WJ-14 & Kiefer Boulevard		Signal					<u> </u>	214	ጓተተ ሾ	<u>אור ד</u>	West Jackson
324 Collector WJ-15 & Kiefer Boulevard		Signal						24	<u> ካካ†††</u>	11 r	West Jackson
325 Douglas Road/Shopping Center Dwy & Kiefer Boulevard		Signal					<u>ካካ</u> † ፖ	214	5111 r	<u>ካካተተ ሮ</u>	West Jackson
326 Happy Lane & Mayhew Road		Roundabout					N 1	4↓	ኻሾ		West Jackson
327 Vineyard Road & Elder Creek Road		Signal					ካካተተ ፖ	N † † ? ?	ካካ†† ፖ	ካካ†† ፖ	West Jackson
328 Vineyard Road & Florin Road		Signal						24	<u> </u>	11 r	West Jackson
400 Collector JT-3 & Jackson Road		Signal						2 L	ካካ††	11 r	Jackson Township
401 Tree View Lane & Jackson Road		Signal						266	ካካ††	11 m	Jackson Township
402 Collector JT-4 & Jackson Road		Signal						25	<b>n</b> ††	t 7	Jackson Township
403 Tree View Lane & Collector JT-5		Signal					ካተኛ	415	<u>ካ</u> ተ ፖ	ካተ ሮ	Jackson Township
404 Tree View Lane & Collector JT-6		Signal					ካተኛ	415	<u>ካ</u> ተ ፖ	ካተ ሮ	Jackson Township
405 Tree View Lane & Collector JT-1		Signal					ኻተሾ	415	ካ1 ፖ	ካ1 ፖ	Jackson Township
406 Tree View Lane & Kiefer Boulevard		Signal					ኻኻሾ		11 r	<u>ז</u> י זי	Jackson Township
407 HS/MS Dwy & Kiefer Boulevard		Signal					ኻሾ		r t	511	Jackson Township

Table 5.6											
MTP Cumulative and MTP Cumulative Plus FOUR PROJECTS Inters	ection Geometric	S									
	Traffic	Control		MTP Cumulative	Lane Geometrics		MTP Cum	lative Plus FOUR	PROJECTS Lane (	Beometrics	
Intersection	MTP Cumulative	MTP Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
500 Rockbridge Dr & Jackson Road		Signal						25	<u>n</u> ††	r 1	NewBridge
501 Zinfandel Drive & N Bridgewater Dr		Signal					1 ř	$\downarrow \downarrow \checkmark$		ንሮ	NewBridge
502 Zinfandel Drive & S Bridgewater Dr		Signal					<u>ካ</u> ተዮ	414	st r	ግ† ፖ	NewBridge
600 Zinfandel Drive & Collector MS-2		Signal					1 ř	114		ንሮ	Mather South
601 Zinfandel Drive & Collector MS-3		Signal					t r	$\downarrow \downarrow \checkmark$		<u></u> ንፖ	Mather South
602 Zinfandel Drive & Collector MS-4		Signal					1 ř	114		ንሮ	Mather South
603 Collector MS-5 & Collector MS-2		All-way stop					Ý	4	Ý	*	Mather South
604 Collector MS-5 & Collector MS-3		Two-way stop					Ý	*	Ý	*	Mather South
605 Collector MS-5 & Collector MS-4		All-way stop					Ý	*	Ý	*	Mather South
606 Collector MS-5 & W Collector MS-1/E Collector MS-1		All-way stop						25	<b>ħ</b> †	1 7	Mather South

### 5.4.3 MTP Cumulative Plus FOUR PROJECTS US 50 Freeway Impacts

### 5.4.3.1 Freeway Mainline

Table 5.7 summarizes a.m. and p.m. peak hour US 50 freeway mainline operations. Details of the analysis are included in the technical appendix. The following locations exhibit significant impacts:

- Eastbound
  - Stockton Boulevard to 59th Street a.m. peak hour
  - Watt Avenue to Bradshaw Road a.m. peak hour
  - Zinfandel Drive to Hazel Avenue p.m. peak hour
- Westbound
  - Mather Field Road to Bradshaw Road a.m. peak hour
  - Watt Avenue to SR 99 / SR 51 p.m. peak hour

### 5.4.3.2 Freeway Ramp Junctions / Weaving

Table 5.8 summarizes a.m. and p.m. peak hour freeway operations at ramp junctions and weaving areas. Details of the analysis are included in the technical appendix. The following locations exhibit significant impacts:

- Eastbound
  - 65th Street to Howe Avenue weave a.m. and p.m. peak hours
  - Bradshaw Road exit a.m. peak hour
  - Mather Field Road to Zinfandel Drive weave a.m. and p.m. peak hours
  - Rancho Cordova Parkway to Hazel Avenue weave p.m. peak hour
- Westbound
  - Hazel Avenue to Rancho Cordova Parkway weave a.m. peak hour
  - Southbound Sunrise Boulevard Slip Entrance a.m. peak hour
  - Southbound Bradshaw Road Slip Entrance a.m. peak hour
  - Southbound Howe Avenue Slip Entrance a.m. peak hour

### 5.4.3.3 Freeway Ramp Intersection Queuing

Tables 5.9 and 5.10 summarize a.m. and p.m. peak hour freeway ramp intersection queuing. The following locations exhibit a significant impact:

- Eastbound
  - Exit ramp to Howe Avenue right turn queue length exceeds available storage
  - Exit ramp to Zinfandel Drive right turn queue length exceeds available storage

Direc-			MTP Cu	ımulative		MTF	P Cumula PRO	tive Plus F( JECTS	OUR
tion	Location	AM Pea	k Hour	PM Pea	k Hour	AM Pea	k Hour	PM Pea	k Hour
		Volume	LOS	Volume	LOS	Volume	LOS	Volume	LOS
East-	SR 99 / SR 51 to Stockton Boulevard	8,582	D	8,297	D	9,245	D	8,246	D
bound	Stockton Boulevard to 59th Street	8,024	F	7,539	F	8,627	F	7,473	F
US 50	59th Street to 65th Street	7,506	D	7,088	D	8,094	Е	7,033	D
	65th Street to Howe Avenue	7,971	D	7,455	D	8,166	D	7,302	D
	Howe Avenue to Watt Avenue	7,147	С	6,393	С	7,149	С	6,150	С
	Watt Avenue to Bradshaw Road	9,583	F	8,662	Е	9,596	F	8,437	D
	Bradshaw Rd to Mather Field Rd	9,362	F	8,502	С	8,922	F	8,510	С
	Mather Field Rd to Zinfandel Drive	8,935	D	8,234	С	8,490	С	8,548	С
	Zinfandel Drive to Sunrise Blvd	6,237	С	6,181	F	5,990	С	6,487	F
	Sunrise Bl to Rancho Cordova Pkwy	5,335	С	5,450	F	4,943	С	5,894	F
	Rancho Cordova Pkwy to Hazel Ave	6,571	D	6,395	F	6,074	С	6,887	F
West-	Hazel Ave to Rancho Cordova Pkwy	5,240	В	4,367	В	5,695	В	3,934	В
bound	Rancho Cordova Pkwy to Sunrise Bl	6,587	С	3,883	В	7,048	С	3,515	В
US 50	Sunrise Blvd to Zinfandel Drive	8,392	D	4,914	В	8,891	D	4,555	В
	Zinfandel Drive to Mather Field Rd	8,942	D	7,154	С	9,330	D	6,703	В
	Mather Field Rd to Bradshaw Road	8,996	F	8,442	D	9,065	F	7,995	С
	Bradshaw Road to Watt Avenue	8,662	F	7,703	D	8,415	Е	7,847	D
	Watt Avenue to Howe Avenue	7,604	F	5,740	F	7,111	F	5,836	F
	Howe Avenue to 65th Street	8,577	F	7,896	F	8,539	F	8,148	F
	65th Street to 59th Street	8,621	F	7,827	F	8,601	F	8,270	F
	59th Street to Stockton Boulevard	9,516	D	8,137	F	9,426	D	8,631	F
	Stockton Boulevard to SR 99 / SR 51	10,023	Е	9,566	F	9,930	Е	9,855	F
<b>Bold</b> val	lues denote level of service "F" condition	ns. <mark>Red sha</mark>	ided value	s indicate pr	oject imp	acts.			
Source:	DKS Associates, 2014.								

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Table 5.	8: MTP Cumulative Plus F	OUR PROJECTS Pea	ak Hour F	reeway	Ramp Ju	nction/V	Veaving 1	Level of	Service	
			Ν	1TP Cu	mulative		MTP C	<sup>c</sup> umulat PROJ	ive Plus F( ECTS	OUR
Direc- tion	Location	Junction Type	A.M. P Hou	Peak Ir	P.M. I Hou	Peak 1r	A.M. F Hou	Peak Ir	P.M. P Hou	eak r
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS
East- bound	Northbound 65th Street Slip Entrance	Waaya	956	F	799	F	902	T	665	T
US 50	Howe Avenue / Hornet Drive Exit	weave	2,070	F	2,201	r	2,322	F	2,237	ſ
	Southbound Howe Avenue Loop Entrance	One-Lane Merge	731	D	1,291	D	808	D	1,152	D
	Northbound Howe Avenue Slip Entrance	One-Lane Merge	591	D	582	D	463	D	555	С
	Watt Avenue Exit	Two-Lane Diverge	1,553	В	1,762	В	1,518	В	1,609	А
	Southbound Watt Avenue Loop Entrance	One-Lane Merge	1,644	D	1,306	С	1,582	D	1,101	С
	Northbound Watt Avenue Slip Entrance	One-Lane Merge	733	D	684	С	667	D	773	С
	Bradshaw Road Exit	Two-Lane Diverge	2,035	F	1,608	В	2,366	F	1,789	В
	Southbound Bradshaw Road Loop Entrance	One-Lane Merge	253	D	399	С	216	С	564	С
	Northbound Bradshaw Road Slip Entrance	One-Lane Merge	1,409	D	843	С	1,340	С	1,173	С

	MTP Cumulative Plus FC	OUR PROJECTS Pea	Table 5.8 k Hour Fr	8 eeway l	Ramp Jun	iction/W	eaving L	evel of	Service	
			N	ATP Cu	mulative		MTP C	Cumulat PROJ	tive Plus F JECTS	OUR
Direc- tion	Location	Junction Type	A.M. F Hou	Peak Ir	P.M. I Hot	Peak ur	A.M. H	Peak Ir	P.M. P Hou	eak r
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS
	Mather Field Road Exit	Two-Lane Diverge	1,492	В	1,462	В	1,464	В	1,400	В
	Southbound Mather Field Road Loop Entrance	One-Lane Merge	236	C	197	С	206	С	167	С
	Northbound Mather Field Road Slip Entrance	Weave	432	F	920	F	447	F	1,210	F
	Zinfandel Drive Exit		3,097		1,759		3,052		1,708	
	Southbound Zinfandel Drive Loop Entrance	One-Lane Merge	187	C	170	С	183	С	161	С
	Northbound Zinfandel Drive Slip Entrance	Lane Addition	644	А	819	В	661	А	938	В
	Sunrise Boulevard Exit	Major Diverge	2,135	С	2,353	С	2,085	С	2,421	С
	Sunrise Boulevard Entrance	Lane Addition / Weave	1,152	В	1,145	C	1,101	А	1,182	C
	Rancho Cordova Parkway Exit	Major Diverge / Weave	78	С	448		25	С	535	
	Rancho Cordova Parkway Entrance	Weave	1,342	F	1,499	F	1,202	F	1,651	F
	Hazel Avenue Exit		1,869		2,657		1,710		2,826	

	MTP Cumulative Plus FC	OUR PROJECTS Peal	Table 5.8 k Hour Fr	} eeway l	Ramp Jun	ction/W	eaving L	evel of	Service	
			N	ITP Cu	mulative		MTP C	Cumulat PROJ	ive Plus F( ECTS	OUR
Direc- tion	Location	Junction Type	A.M. F Hou	Peak Ir	P.M. I Hou	Peak 1r	A.M. H Hou	Peak Ir	P.M. P Hou	eak r
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS
	Hazel Avenue Entrance	Waava	1,088	D	2,320	Г	1,048	D	2,087	D
	Aerojet Road Exit	weave	674		122	F	736	D	130	D
West-	Hazel Avenue Exit	Two-Lane Diverge	1,077	В	959	В	905	В	951	В
bound US 50	Northbound Hazel Avenue Loop Entrance	One-Lane Merge	52	В	434	С	124	С	434	В
	Southbound Hazel Avenue Slip Entrance	Waaya	2,283	F	1,814	F	2,376	I	1,725	F
	Rancho Cordova Parkway Exit	WEave	1,512	Г	1,595	Г	1,644	P	1,479	Г
	Rancho Cordova Parkway Entrance	Lane Addition	875	А	791	А	897	А	747	А
	Sunrise Boulevard Exit	Major Diverge	623	C	627	С	611	С	580	С
	Northbound Sunrise Boulevard Loop Entrance	Lane Addition	167	А	197	А	169	А	106	А
	Southbound Sunrise Boulevard Slip Entrance	Lane Addition	2,334	F	1,673	С	2,345	F	1,746	D
	Zinfandel Drive Exit	One-Lane Diverge	1,478	E	1,124	D	1,488	Е	1,097	C
	Northbound Zinfandel Drive Loop Entrance	Lane Addition	780	В	1,314	С	689	С	1,178	В

	MTP Cumulative Plus FC	OUR PROJECTS Pea	Table 5.8 k Hour Fr	s eeway l	Ramp Jun	ction/W	eaving L	evel of	Service	
			Ν	ITP Cu	mulative		MTP C	Cumulat PROJ	tive Plus F IECTS	OUR
Direc- tion	Location	Junction Type	A.M. F Hou	Peak Ir	P.M. I Hou	Peak 1r	A.M. H Hou	Peak Ir	P.M. P Hou	eak r
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS
	Southbound Zinfandel Drive Slip Entrance	One-Lane Merge	1,349	D	723	В	1,219	D	708	В
	Mather Field Road Exit	One-Lane Drop	1,372	D	809	С	1,768	Е	848	В
	Northbound Mather Field Road Loop Entrance	One-Lane Merge	578	В	1,189	С	439	В	1,185	В
	Southbound Mather Field Road Slip Entrance	One-Lane Merge	343	С	474	В	481	С	467	В
	Bradshaw Road Exit	Two-Lane Diverge	1,376	C	1,733	В	1,788	С	1,724	В
	Northbound Bradshaw Road Loop Entrance	One-Lane Merge	1,091	D	1,023	D	1,313	D	1,667	D
	Southbound Bradshaw Road Slip Entrance	One-Lane Merge	385	F	836	D	387	F	894	D
	Watt Avenue Exit	Major Diverge	1,577	D	1,167	D	1,381	D	1,054	D
	Northbound Watt Avenue Entrance	One-Lane Merge	806	D	1,104	D	738	D	1,050	D
	Southbound Watt Avenue Slip Entrance	Lane Addition	1,224	D	1,201	С	845	D	1,098	С
	Howe Avenue Exit	Major Diverge	1,806	Е	1,677	D	1,520	D	1,694	D
	Northbound Howe Avenue Loop Entrance	One-Lane Merge	582	D	503	С	668	D	519	D

	MTP Cumulative Plus FC	OUR PROJECTS Pea	Table 5.8 k Hour Fr	B eeway ]	Ramp Jun	ction/W	eaving L	evel of	Service	
			Ν	ATP Cu	ımulative		MTP C	Cumulat PROJ	tive Plus F IECTS	OUR
Direc- tion	Location	Junction Type	A.M. H Hou	Peak Ir	P.M. I Hot	Peak 1r	A.M. F Hou	Peak Ir	P.M. P Hou	eak r
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS
	Southbound Howe Avenue Slip Entrance	One-Lane Merge	732	F	763	С	781	F	689	С
Bold val	ues denote level of service "F	" conditions.								
Red sha	ded values indicate project in	pacts.								
Source:	DKS Associates, 2014.									

		Availab	le Storage	Length		Maximu	m Queue	Length (fe	et / lane)	
			(feet / lane)	)	A	M Peak Ho	our	PN	M Peak Ho	our
Direction	US 50 Exit Ramp	L	Т	R	L	Т	R	L	Т	R
Eastbound	Howe Avenue	765	-	765	192	-	837	154	-	330
US-50	Watt Avenue	1,500	_	1,500	225	_	293	278	-	256
	Bradshaw Road	1,250	-	1,250	221	_	797	153	-	280
	Mather Field Road	1,385	-	1,385	173	_	526	197	-	324
	Zinfandel Drive	1,025	1,025	1,025	187	1388	1272	489	403	702
	Sunrise Boulevard	1,695	-	1,695	282	_	316	222	-	89
	Rancho Cordova Pkwy.	-	-	1,850	-	_	9	-	-	104
	Hazel Avenue	1,310	_	1,310	216	_	8	669	-	12
Westbound	Hazel Avenue	1,9	995	1,995	2	86	884	3	09	589
US-50	Rancho Cordova Pkwy	1,065	_	-	542	_	-	513	-	-
	Sunrise Boulevard	1,540	-	1,540	88	_	86	20	-	273
	Zinfandel Drive	1,065	-	1,065	648	_	51	156	-	170
	Mather Field Road	1,335	-	1,335	318	_	293	316	-	264
	Bradshaw Road	1,330	-	1,330	197	_	292	310	-	80
	Watt Avenue	1,480	-	1,480	267	_	818	201	-	714
	Howe Avenue	1,355	1,355	1,355	119	412	695	197	412	550

L = left turn movement, T = through movement, R = right turn movement

Source: DKS Associates, 2014.

		Plus FOUR PROJECTS Peak Hour Freeway Ramp Termini Queuing     Maximum Queue Length (feet / lane)     T <th c<="" th=""></th>												
			(feet / lane)	)	Al	M Peak Ho	our	PM Peak Hour						
Direction	US 50 Exit Ramp	L	Т	R	L	Т	R	L	Т	R				
Eastbound	Howe Avenue	765	-	765	196	-	1,189	148	-	443				
US-50	Watt Avenue	1,500	_	1,500	206	_	335	251	_	332				
	Bradshaw Road	1,250	-	1,250	168	_	1,294	97	_	603				
	Mather Field Road	1,385	-	1,385	331	_	724	335	_	275				
	Zinfandel Drive	1,025	1,025	1,025	207	1,304	1,325	672	569	764				
	Sunrise Boulevard	1,695	-	1,695	360	_	247	232	_	86				
	Rancho Cordova Pkwy.	-	_	1,850	-	_	0	-	_	138				
	Hazel Avenue	1,310	-	1,310	280	_	15	1,047	-	11				
Westbound	Hazel Avenue	1,9	995	1,995	4	32	747	39	91	685				
US-50	Rancho Cordova Pkwy	1,065	-	-	638	_	-	455	-	-				
	Sunrise Boulevard	1,540	-	1,540	59	_	81	26	-	259				
	Zinfandel Drive	1,065	-	1,065	487	_	70	171	-	172				
	Mather Field Road	1,335	-	1,335	726	_	684	316	-	231				
	Bradshaw Road	1,330	-	1,330	418	_	150	331	-	58				
	Watt Avenue	1,480	-	1,480	432	_	670	210	-	697				
	Howe Avenue	1,355	1,355	1,355	77	412	543	196	412	837				
<b>Red shaded</b> L = left turn 1 Source: DK	values indicate project impa novement, $T =$ through mo	acts. vement, R	= right turr	n movemen	t									

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### 5.4.4 MTP Cumulative Plus FOUR PROJECTS Pedestrian and Bicycle Facility Impacts

The FOUR PROJECTS would not remove any existing or planned pedestrian facility. The FOUR PROJECTS would not remove any existing bicycle facility or any facility that is planned in the Bikeway Master Plan. The FOUR PROJECTS would add pedestrian and bicycle demands within the FOUR PROJECTS site and to and from nearby land uses. Complete information on improvements to on- and off-site bicycle and pedestrian facilities is not available at this time. Because the FOUR PROJECTS would add demand for pedestrian and bicycle facilities that may not be available, the impact of the FOUR PROJECTS on pedestrian and bicycle circulation is potentially significant.

### 5.4.5 MTP Cumulative Plus FOUR PROJECTS Transit System Impacts

Public transit service is currently limited in the vicinity of the FOUR PROJECTS. In the preparation of this analysis, a conceptual transit system to serve the FOUR PROJECTS was developed (see Section 3.1.2.3). The additional transit service was assumed to be funded by the FOUR PROJECTS. However, the timing and implementation of the transit system are uncertain at this time. The FOUR PROJECTS would increase demands for public transit facilities. Therefore, the impact of the FOUR PROJECTS on the transit system is potentially significant.

### 5.4.6 MTP Cumulative Plus FOUR PROJECTS Functionality Impacts

Table 5.11 summarizes the results of the rural roadway segment functionality analysis. Figure 5.7 illustrates the resultant functionality impacts. The table includes the number of lanes assumed with the implementation of the FOUR PROJECTS, which in many cases is greater than the number of lanes in the existing condition. The shaded table cells under the "Travel Lanes" heading illustrates new roadways and widened roadways that are assumed part of the FOUR PROJECTS. The "Substandard?" heading indicates whether or not a roadway meets the County standards of 12-foot lanes and 6-foot shoulders. If the FOUR PROJECTS make improvements to a roadway segment such as widening, they would be required to reconstruct the entire substandard roadway segment to County standards. The shaded table cells under the "Functionality Impact?" heading indicate those locations with a functionality impact.

As stated above, the traffic analysis assumed that the FOUR PROJECTS would construct a number of travel lanes on roadway segments that are internal to or on the boundary of the FOUR PROJECTS, and the entire roadway segment would be reconstructed to County standards at that time. The timing of implementation of such additional traffic lanes on these internal or boundary roadway segments will affect whether or not impacts would exist at some time prior to full build out of the FOUR PROJECTS.

# Table 5.11MTP Cumulative Plus FOUR PROJECTS Functionality Impacts

		Segment			]	Existing Subs	standard Roadwa	ys	MTP Cumulative + FOUR PROJECTS					
ID	Roadway	From	То	Jurisdiction	Travel Lanes	Pavement (ft)	Substandard? <sup>1</sup>	Existing Volume	Travel Lanes	Substandard? <sup>1</sup>	Forecasted Volume	Functionality		
15	Douglas Rd	Mather Blvd	Zinfandel Dr	County	2	23	Yes	6.635	4	No	30.940	Yes <sup>3</sup>		
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	Rancho Cordova/County	2	23	Yes	8,369	6	No	39,820	Yes <sup>3</sup>		
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	County	2	20	Yes	740	4	No	13,460	Yes <sup>3</sup>		
20	Eagles Nest Rd	Jackson Rd	Florin Rd	County	2	<21	Yes	517	2	Yes	9,590	Yes		
21	Eagles Nest Rd	Florin Rd	Grant Line Rd	County	2	<21	Yes	189	2	Yes	5,590	No		
25	Elder Creek Rd	South Watt Ave	Hedge Ave	County	2	23	Yes	5,576	2	Yes	43,150	Yes		
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	County	2	23	Yes	5,797	2	Yes	43,640	Yes		
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	County	2	23	Yes	5,355	3	No	17,180	Yes <sup>3</sup>		
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd	County	2	23	Yes	2,158	3	No	27,790	Yes <sup>3</sup>		
30	Excelsior Rd	Kiefer Blvd	Jackson Rd	County	2	22	Yes	3,716	2	Yes	29,040	Yes		
31	Excelsior Rd	Jackson Rd	Elder Creek Rd	County	2	<21	Yes	5,075	3	No	35,140	Yes <sup>3</sup>		
32	Excelsior Rd	Elder Creek Rd	Florin Rd	County	2	<21	Yes	4,203	3	No	11,870	Yes <sup>3</sup>		
33	Excelsior Rd	Florin Rd	Gerber Rd	County	2	<21	Yes	5,423	2	Yes	14,310	Yes		
34	Excelsior Rd	Gerber Rd	Calvine Rd	County	2	<21	Yes	4,229	2	Yes	8,990	Yes		
39	Florin Rd	South Watt Ave	Hedge Ave	County	2	22	Yes	7,718	4	No	9,410	Yes <sup>3</sup>		
40	Florin Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	6,312	4	No	9,160	Yes <sup>3</sup>		
41	Florin Rd	Mayhew Rd	Bradshaw Rd	County	2	22	Yes	6,317	4	No	32,310	Yes <sup>3</sup>		
42	Florin Rd	Bradshaw Rd	Excelsior Rd	County	2	22	Yes	3,478	4	No	20,460	Yes <sup>3</sup>		
43	Florin Rd	Excelsior Rd	Sunrise Blvd	County	2	22	Yes	3,835	2	Yes	11,880	Yes		
48	Fruitridge Rd	South Watt Ave	Hedge Ave	City of Sacramento/ County	2	22	Yes	2,890	3	No	19,590	Yes <sup>3</sup>		
49	Fruitridge Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	1,790	4	No	22,940	Yes <sup>3</sup>		
50	Grant Line Rd	White Rock Rd	Douglas Rd	Rancho Cordova/County	2	22	Yes	7,189	4	No	19,330	Yes <sup>3</sup>		
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	County	2	22	Yes	4,635	4	No	49,530	Yes <sup>3</sup>		
59	Hedge Ave	Jackson Rd	Fruitridge Rd	County	2	22	Yes	3,061	2	Yes	9,640	Yes		
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	City of Sacramento/County	2	22	Yes	3,737	2	Yes	4,440	No		
61	Hedge Ave	Elder Creek Rd	Florin Rd	County	2	22	Yes	2,722	2	Yes	2,250	No		

Red text with light gray shading indicate project impacts.



### Table 5.11 **MTP Cumulative Plus FOUR PROJECTS Functionality Impacts**

		Seg		I	Existing Subs	standard Roadwa	ys	MTP Cumulative + FOUR PROJECTS				
ID	Roadway	From	То	Jurisdiction	Travel Lanes	Pavement (ft)	Substandard? <sup>1</sup>	Existing Volume	Travel LanesSubstandard? 1		Forecasted Volume	Functionality Impact? <sup>2</sup>
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	County	2	26	Yes	13,030	6	No	54,830	Yes <sup>3</sup>
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	County	2	26	Yes	10,478	4	No	50,100	Yes <sup>3</sup>
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	City of Sacramento/County	2	22	Yes	4,616	2	Yes	4,930	No
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	County	2	22	Yes	4,618	6	No	49,620	Yes <sup>3</sup>
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	County	2	22	Yes	656	3	No	22,480	Yes <sup>3</sup>
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd	County	2	22	Yes	6,751	2	Yes	14,550	Yes
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	County	2	22	Yes	1,616	4	No	45,500	Yes <sup>3</sup>
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	Rancho Cordova/County	2	20	Yes	2,490	4	No	38,630	Yes <sup>3</sup>
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	County	2	<21	Yes	2,848	4	No	30,180	Yes <sup>3</sup>

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

<sup>2</sup> Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT.

<sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.

Red text with light gray shading indicate project impacts.





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### FIGURE 5.7 MTP CUM PLUS FOUR PROJECTS FUNCTIONALITY IMPACTS

### Legend



Functionality Impact

Functionality Impact if Roadway is Not Already Improved

Cities

Mather Airport



### 5.5 MITIGATION

### 5.5.1 MTP Cumulative Plus FOUR PROJECTS Roadway Segment Mitigation

Table 5.12 summarizes the results of the operations analysis for the study area roadway segments with mitigation. Where feasible, the number of roadway lanes was increased to mitigate the impact. However, the increased number of lanes could not exceed the maximum General Plan designations of the appropriate jurisdictions. The shaded table cells under the "Travel Lanes" and "Facility Type" headings illustrate widened roadways for mitigation purposes, which would be the responsibility of the FOUR PROJECTS to fund. The NewBridge project would contribute a fair share. The shaded table cells under the "Level of Service" heading indicate those locations that would continue to have LOS impacts after mitigation. The table also includes the constraint that precluded full mitigation of the LOS impact.

The "LOS Impact with Mitigation?" column shows whether there is still an LOS impact after the mitigation measure is applied. In other words, this column shows whether a mitigation measure successfully mitigates the impact or not. In several locations where the improvements allowed under the General Plan would not mitigate an LOS impact, the County has proposed alternative mitigation measures, which are shown in the "Alternative Mitigation" column. These alternative mitigation measures will either fully mitigate the impact or substantially reduce the level of impact.

### 5.5.2 MTP Cumulative Plus FOUR PROJECTS Intersection Mitigation

Tables 5.13 and 5.14 summarize the results of the operations analysis for the study area intersections with mitigation. However, the increased number of lanes on each approach does not exceed the County's standard number of approach lanes. Shaded table cells in Table 5.14 indicate those locations where changes in traffic control and / or number of approach lanes by type have been made to mitigate impacts, which would be the responsibility of the FOUR PROJECTS to fund. The NewBridge project would contribute a fair share. The shaded table cells in Table 5.13 under the "Level of Service" heading indicate those locations with an LOS impact after mitigation. Table 5.14 also identifies those intersections that would continue to have LOS impacts after mitigation, along with the constraint that precluded full mitigation. Detailed analysis information is included in the technical appendix.

The "LOS Impact with Mitigation?" column shows whether there is still an LOS impact after the mitigation measure is applied. In other words, this column shows whether a mitigation measure successfully mitigates the impact or not. In several locations where the LOS impact could not be mitigated by implementing the County's standard number of approach lanes, the County has proposed alternative mitigation measures, which are shown in the "Alternative Mitigation" column. These generally include providing additional turn lanes, carrying an additional through lane past the intersection, or designating the intersection as a High Capacity Intersection. These alternative mitigation measures will either fully mitigate the impact or substantially reduce the level of impact.

### High Capacity Intersections

Three intersections are currently designated as "High Capacity Intersections" on the County's General Plan: Watt Avenue & Folsom Boulevard, Watt Avenue & Kiefer Boulevard, and Watt Avenue & Jackson Road. At two intersections on Bradshaw Road where an LOS impact could not be mitigated by implementing the County's standard number of approach lanes, the County has proposed alternative mitigation measures by designating those two intersections as High Capacity Intersections: Bradshaw Road & Mayhew Road and Bradshaw Road & Jackson Road.

A high capacity intersection would utilize special treatments to increase the capacity of the intersection so as to reduce congestion and travel delay. Since each intersection could have unique travel movements, volumes and existing context sensitive conditions, the special treatments utilized at each high capacity intersection will be selected to meet the specific needs of each intersection. The range of special treatments is quite wide, ranging from the restriction of certain turning movements to various combinations that could include grade separating certain movements. While the field of traffic engineering is ever expending and evolving resulting in the use of new technologies and treatments, special treatments such as the following could be utilized at a high capacity intersection:

- Restricting turning movements
- Median U-turns
- Roundabouts
- Split intersections
- Quadrant roadway intersections
- Bowtie intersections
- Directional flyovers
- Center turn overpass
- Grade separated Roundabout
- Diverging diamond grade separation
- Compact diamond grade separation
- Single point urban grade separation
- Traditional urban grade separation

The County has conducted conceptual engineering to define potential improvements at the three study area intersections on Watt Avenue that are currently designated as "High Capacity Intersections" on the County's General Plan. These are:

• At the Watt Avenue & Folsom Boulevard intersection, the County proposes an ultimate configuration involving grade separation of the northbound and southbound through movements of Watt Avenue. Access to and from Folsom Boulevard would be accomplished via on and off-ramps from the left lanes of Watt Avenue to a single signalized intersection. A bus rapid transit (BRT) lane along Watt Avenue would also intersect Folsom Boulevard at the traffic signal. This design is consistent with the recommendations of the South Watt Area Transportation Study (SWATS) dated November 1, 2002 and approved by the Board of Supervisors on November 26, 2002, and with the planning study for the *State Route 16 (Jackson Road) Corridor Study* (Fehr

& Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.

- At the Watt Avenue & Kiefer Boulevard intersection, the County proposes a tight diamond interchange as the ultimate improvement. The through movements (and BRT lane) on Watt Avenue would be grade separated from Kiefer Boulevard. Access to and from Kiefer Boulevard would be accomplished via on and off-ramps at two signalized intersections along Kiefer Boulevard. This design is proposed in the planning study prepared for *State Route 16 (Jackson Road) Corridor Study* (Fehr & Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.
- At the Watt Avenue & Jackson Road intersection, the County proposes a standard sixby-six signalized intersection (two left-turn lanes, three through lanes, and one right-turn lane, on each approach) with three modifications. 1) The southbound left-turn movement would be grade separated; 2) The westbound right-turn movement would be grade separated; and 3) Three northbound left-turn lanes are proposed. This configuration represents an enhanced version of Alternative 6 in the planning study prepared for *State Route 16 (Jackson Road) Corridor Study* (Fehr and Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.

At the two new proposed "High Capacity Intersections" along Bradshaw Road, the ultimate configurations have not been defined. A number of improvement options involving one or more of the special treatments identified above could be defined that would mitigate the LOS impact at these locations. Since each of these intersections have unique travel movements, volumes and existing context sensitive conditions (potential environmental issues, right-of-way, physical constraints, etc.), the special treatments utilized at each location will need to be studied to select the treatments that mitigate the LOS impact, while avoiding or minimizing other impacts. At Bradshaw Road & Mayhew Road, heavy southbound right turns and westbound left turns suggest that a combination of triple left-turn lanes, dual right-turn lanes and/or overlap phasing may be effective. A high conflicting northbound and southbound volume suggests that grade separating one or more movements may also be necessary to fully mitigate the LOS impact. At Bradshaw Road & Jackson Road, the critical movements are the conflicting through volumes on all approaches. Grade separating either the Bradshaw Road or Jackson Road through movements is likely the only option that would mitigate the LOS impact at this location.

# Table 5.12MTP Cumulative Plus FOUR PROJECTS Roadway Segment Mitigations

		Seg	ment		MTP Cumul	ative + FOUF	R PROJECT	ГS		Mit	igated MTI	P Cumulat	ive + FOUR I	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
2	Bradshaw Rd	US 50	Lincoln Village Dr	6	Arterial M	85,970	1.59	F	6	Arterial M	1.59	F	Yes		Maximum General Plan lanes
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd	6	Arterial M	78,400	1.45	F	6	Arterial M	1.45	F	Yes		Maximum General Plan lanes
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd	6	Arterial M	76,540	1.42	F	6	Arterial M	1.42	F	Yes		Maximum General Plan lanes
5.1	Bradshaw Rd	Goethe Rd	Collector WJ-8	6	Arterial M	65,320	1.21	F	6	Arterial M	1.21	F	Yes		Maximum General Plan lanes
5.2	Bradshaw Rd	Collector WJ-8	Kiefer Blvd	6	Arterial M	60,740	1.12	F	6	Arterial M	1.12	F	Yes		Maximum General Plan lanes
6.1	Bradshaw Rd	Kiefer Blvd	Collector WJ-9	6	Arterial M	64,280	1.19	F	6	Arterial M	1.19	F	Yes		Maximum General Plan lanes
6.2	Bradshaw Rd	Collector WJ-9	Mayhew Rd	6	Arterial M	62,160	1.15	F	6	Arterial M	1.15	F	Yes		Maximum General Plan lanes
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd	2	Arterial M	27,780	1.54	F	4	Arterial M	0.77	С	No		
25	Elder Creek Rd	South Watt Ave	Hedge Ave	2	Arterial M	43,150	2.40	F	6	Arterial M	0.80	C	No		
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	2	Arterial M	43,640	2.42	F	6	Arterial M	0.81	D	No		
28.1	Elder Creek Kd	Bradsnaw Kd	Vineyard Kd	3	Arterial M	27,790	1.54	F	4	Arterial M	0.//	Е	No No		
31.1	Excelsior Rd	Collector WI-6	Flder Creek Rd	3	Arterial M	35,550	1.90	F	4	Arterial M	0.98	E F	No		
36	Florin Rd	Stockton Blvd	Power Inn Rd	4	Arterial M	38.590	1.07	F	6	Arterial M	0.71	C L	No		
37	Florin Rd	Power Inn Rd	Florin-Perkins Rd	4	Arterial M	39,640	1.10	F	4	Arterial M	1.10	F	Yes		Maximum General Plan lanes
42.2	Florin Rd	Vineyard Rd	Excelsior Rd	3	Arterial M	19,520	1.08	F	4	Arterial M	0.54	A	No		



# Table 5.12MTP Cumulative Plus FOUR PROJECTS Roadway Segment Mitigations

		Seg	MTP Cumulative + FOUR PROJECTS						Mitigated MTP Cumulative + FOUR PROJECTS							
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible	
44	Folsom Blvd	Howe Ave	Jackson Rd	4	Arterial M	55,090	1.53	F	4	Arterial M	1.53	F	Yes		Maximum General Plan lanes	
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	27,360	1.52	F	4	Arterial M	0.76	С	No			
48	Fruitridge Rd	South Watt Ave	Hedge Ave	3	Arterial M	19,590	1.09	F	4	Arterial M	0.54	А	No			
56	Grant Line Rd	Sheldon Rd	Wilton Rd	4	Arterial M	38,800	1.08	F	6	Arterial M	0.72	С	No			
57	Grant Line Rd	Wilton Rd	Bond Rd	4	Arterial M	33,840	0.94	E	6	Arterial M	0.63	В	No			
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	4	Arterial M	49,530	1.38	F	6	Arterial M	0.92	E	Yes	Happy Lane realigned to Routier Road, widened to 6 lanes	County will not exceed 6 lanes	
62	Howe Ave	US 50	Folsom Blvd	6	Arterial M	70,480	1.31	F	6	Arterial M	1.31	F	Yes		Maximum General Plan lanes	
66.1	Jackson Rd	Florin Perkins Rd	14th Ave	4	Arterial M	42,300	1.18	F	4	Arterial M	1.18	F	Yes		Maximum General Plan lanes	
66.2	Jackson Rd	14th Ave	Rock Creek Pkwy	4	Arterial M	58,220	1.62	F	4	Arterial M	1.62	F	Yes		Maximum General Plan lanes	
66.3	Jackson Rd	Rock Creek Pkwy	Aspen 1 Dwy	4	Arterial M	52,540	1.46	F	4	Arterial M	1.46	F	Yes		Maximum General Plan lanes	
66.4	Jackson Rd	Aspen 1 Dwy	South Watt Ave	4	Arterial M	52,540	1.46	F	4	Arterial M	1.46	F	Yes		Maximum General Plan lanes	
67	Jackson Rd	South Watt Ave	Hedge Ave	4	Arterial M	65,760	1.83	F	6	Arterial M	1.22	F	No			



# Table 5.12MTP Cumulative Plus FOUR PROJECTS Roadway Segment Mitigations

		Segi	ment	MTP Cumulative + FOUR PROJECTS						Mitigated MTP Cumulative + FOUR PROJECTS								
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible			
68.1	Jackson Rd	Hedge Ave	Collector WJ-3	4	Arterial M	59,710	1.66	F	6	Arterial M	1.11	F	Yes		Maximum General Plan lanes			
68.2	Jackson Rd	Collector WJ-3	Mayhew Rd	4	Arterial M	60,300	1.68	F	6	Arterial M	1.12	F	Yes		Maximum General Plan lanes			
70.1	Jackson Rd	Bradshaw Rd	Collector WJ-4	6	Arterial M	54,830	1.02	F	2	Arterial M	3.05	F	Yes		Maximum General Plan lanes			
71.1	Jackson Rd	Excelsior Rd	Collector JT-3	4	Arterial M	50,100	1.39	F	6	Arterial M	0.93	Е	No					
71.2	Jackson Rd	Collector JT-3	Tree View Ln	4	Arterial M	36,060	1.00	F	6	Arterial M	0.67	В	No					
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	2	Rural Hwy	20,160	0.88	Е	4	Arterial M	0.56	А	No					
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd	4	Arterial M	43,890	1.22	F	4	Arterial M	1.22	F	Yes		Maximum General Plan lanes			
78.4	Kiefer Blvd	E Collector MS-1	Sunrise Blvd	3	Arterial M	22,480	1.25	F	4	Arterial M	0.62	В	No					
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd	2	Res Collector F	14,550	1.82	F	2	Res Collector F	1.82	F	Yes	Construct Douglas Road extension to 4 lanes	Maximum General Plan lanes			
89.1	Mayhew Rd	Jackson Rd	Rock Creek Pkwy	4	Arterial M	45,500	1.26	F	6	Arterial M	0.84	D	No					
89.2	Mayhew Rd	Rock Creek Pkwy	Fruitridge Rd	4	Arterial M	40,820	1.13	F	6	Arterial M	0.76	С	No					
92	Old Placerville Rd	Happy Ln	Routier Rd	2	Arterial M	50,980	2.83	F					No	Happy Lane realigned to Routier Road, widened to 6 lanes				


# Table 5.12MTP Cumulative Plus FOUR PROJECTS Roadway Segment Mitigations

		Segr	ment		MTP Cumu	lative + FOUR	<b>PROJEC</b>	ГS		Mit	igated MTI	P Cumulat	ive + FOUR I	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
93	Old Placerville Rd	Routier Rd	Rockingham Dr	4	Arterial M	32,970	0.92	Е	4	Arterial M	0.92	Е	Yes		Maximum General Plan lanes
95	Rockingham Dr	Old Placerville Rd	Mather Field Rd	4	Arterial M	36,140	1.00	F	4	Arterial M	1.00	F	Yes		Maximum General Plan lanes
96	South Watt Ave	Folsom Blvd	Kiefer Blvd	6	Arterial M	82,250	1.52	F	6	Arterial M	1.52	F	Yes		Maximum General Plan lanes
97	South Watt Ave	Kiefer Blvd	Jackson Rd	6	Arterial M	72,010	1.33	F	6	Arterial M	1.33	F	Yes		Maximum General Plan lanes
100	South Watt Ave	Elder Creek Rd	Florin Rd	4	Arterial M	37,030	1.03	F	6	Arterial M	0.69	В	No		
104.2	Sunrise Blvd	International Dr	Rio Del Oro Pkwy	6	Arterial M	53,110	0.98	Е	6	Arterial M	0.98	Е	Yes		Maximum General Plan lanes
104.3	Sunrise Blvd	Rio Del Oro Pkwy	Douglas Rd	6	Arterial M	53,560	0.99	Е	6	Arterial M	0.99	Е	Yes		Maximum General Plan lanes
110	Watt Ave	US 50	Folsom Blvd	6	Arterial H	105,950	1.77	F	6	Arterial H	1.77	F	Yes		Maximum General Plan lanes
122	Zinfandel Dr	City Limit	Douglas Rd	2	Arterial M	32,020	1.78	F	4	Arterial M	0.89	D	No		
302	Happy Ln	Kiefer Blvd	Mayhew Rd	4	Arterial M	40,480	1.12	F	4	Arterial M	1.12	F	Yes		Maximum General Plan lanes
305	Kiefer Blvd	Happy Ln	Collector WJ-15	6	Arterial M	60,300	1.12	F	6	Arterial M	1.12	F	Yes		Maximum General Plan lanes



# Table 5.12MTP Cumulative Plus FOUR PROJECTS Roadway Segment Mitigations

		Segi	ment		MTP Cumu	lative + FOUF	R PROJECT	ГS		Mit	igated MTI	P Cumulat	ive + FOUR	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
306	Kiefer Blvd	Collector WJ-15	Douglas Rd	6	Arterial M	56,010	1.04	F	6	Arterial M	1.04	F	Yes		Maximum General Plan lanes
308	Mayhew Rd	Happy Ln	Bradshaw Rd	4	Arterial M	40,230	1.12	F	6	Arterial M	0.75	С	No		
309	Mayhew Rd	Bradshaw Rd	Jackson Rd	4	Arterial M	40,820	1.13	F	6	Arterial M	0.76	С	No		
311	Mayhew Rd	Collector WJ-13	Elder Creek Rd	3	Arterial M	19,870	1.10	F	4	Arterial M	0.55	А	No		
405	Collector JT-3	Collector JT-5	Jackson Rd	2	Res Collector F	17,330	2.17	F	2	Arterial M	0.96	Е	No		
602	Collector MS-2	Eagles Nest Rd	Collector MS-5	2	Res Collector F	9,370	1.17	F	2	Res Collector NF	0.94	Е	No		

Note: Gray shading represents changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage

<sup>2</sup> Alternative mitigations represent proposed mitigations beyond the General Plan, as proposed by the County of Sacramento.



# Table 5 13

Table 5.15														
MTP Cumulative Plus FOUR PROJECTS Impacted Intersections and Mitigations           AM Peak Hour         PM Peak Hour														
				AM Peak Hour	r				<u>.</u> .		PM Peak Hour	r		
	MTP Cumu Pl	Ilative Plus	S FOUR		Mitigated I	WTP Cum Pli PROJECTS	us FOUR	MTP Cumu P	Ilative Plus	FOUR		Mitigated M	ROJECTS	us FOUR
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
3 Power Inn Road/Howe Avenue & Folsom Blvd	Signal	F	104.3	Yes				Signal	E	77.3	No			
4 Power Inn Road & 14th Avenue	Signal	F	205.7	Yes	Signal	F	132.2	Signal	F	142.0	Yes	Signal	F	87.1
12 Watt Avenue & Folsom Blvd.	Signal	F	190.1	No				Signal	F	187.8	Yes	Signal	E	66.8
14 S. Watt Avenue & Kiefer Blvd.	Signal	F	120.8	Yes	Signal	SB Ramps B NB Ramps B	SB Ramps 19.0 NB Ramps 18.9	Signal	F	92.7	No			
16 S. Watt Avenue & Jackson Road	Signal	F	221.7	Yes	Signal	E	68.8	Signal	F	196.7	Yes	Signal	E	61.6
17 S. Watt Avenue & Fruitridge Road	Signal	F	124.8	Yes	Signal	F	87.2	Signal	F	111.7	Yes	Signal	E	76.1
18 S. Watt Avenue & Elder Creek Road	Signal	F	196.2	No				Signal	F	203.8	Yes	Signal	D	50.8
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	F	153.2	Yes	Signal	E	69.6	Signal	F	101.0	Yes	Signal	E	57.8
23 Hedge Avenue & Jackson Road	Signal	F	213.6	Yes	Signal	D	44.8	Signal	F	141.4	Yes	Signal	С	26.1
28 Mayhew Road & Kiefer Boulevard	Signal	F	112.8	Yes	Signal	E	69.6	Signal	Е	75.5	No			
29 Mayhew Road & Jackson Road	Signal	F	127.5	Yes	Signal	E	73.3	Signal	F	103.8	Yes	Signal	E	59.5
31 Mayhew Road & Elder Creek Road	Signal	F	569.1	Yes	Signal	D	48.2	Signal	F	547.5	Yes	Signal	E	78.6
32 Woodring Drive & Zinfandel Drive	Two-way stop	D	32.7	Yes	Signal	В	13.7	Two-way stop	С	15.1	Yes	Signal	С	20.6
Eastbound		F	>300						F	>300				
Northbound Left Turn		В	12.0						В	13.8				

# Table 5.13

Cumulative Plus FOUR PROJECTS Impacted Intersections and Mitigations														
MTP Cumulative Plus FOUR PROJECTS Impacted Intersections and	mulative Plus FOUR PROJECTS Impacted Intersections and Mitigations AM Peak Hour PM Peak Hour													
	MTP Cumu PF	Ilative Plus	FOUR	AM Peak Hour	Mitigated M P	TP Cum Pl ROJECTS	us FOUR	MTP Cumu	Ilative Plus	FOUR	PM Peak Hour	Mitigated M P	TP Cum Plu ROJECTS	us FOUR
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
35 Bradshaw Road & US 50 EB Ramps	Signal	Е	71.8	Yes				Signal	D	36.1	No			
36 Bradshaw Road & Old Placerville Road	Signal	F	87.0	No				Signal	F	88.8	Yes			
37 Bradshaw Road & Kiefer Boulevard	Signal	F	143.6	Yes	Signal	F	129.1	Signal	F	166.1	Yes	Signal	F	154.9
38 Bradshaw Road & Jackson Road	Signal	F	97.9	No				Signal	F	96.1	Yes			
39 Bradshaw Road & Elder Creek Road	Signal	F	149.1	Yes	Signal	E	56.8	Signal	F	90.7	Yes	Signal	E	56.4
42 Happy Lane & Old Placerville Road	Two-way stop	F	>300	Yes	Signal	с	34.5	Two-way stop	F	>300	Yes	Signal	С	31.7
Northbound Left Turn		F	>300						F	>300				
Northbound Right Turn		F	>300						F	>300				
Westbound Left Turn		F	>300						F	>300				
44 Excelsior Road & Kiefer Boulevard	Signal	F	93.9	Yes				Signal	E	56.8	No			
45 Excelsior Road & Jackson Road	Signal	F	241.0	Yes	Signal	D	42.4	Signal	F	202.4	Yes	Signal	D	53.1
47 Excelsior Road & Florin Road	Signal	F	123.2	Yes	Signal	E	75.0	Signal	Е	68.2	No			
48 Excelsior Road & Gerber Road/Birch Ranch Drive	All-way stop	F	53.1	Yes	Signal	D	48.8	All-way stop	Е	39.8	No			
51 Mather Field Road & Rockingham Drive	Signal	F	238.4	Yes				Signal	F	129.1	Yes			
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	F	90.1	No				Signal	F	90.6	Yes			
58 Zinfandel Drive & Douglas Road	Signal	F	227.7	Yes	Signal	E	60.4	Signal	F	225.8	Yes	Signal	Е	70.9

# Table 5 13

MIP Cumulative Plus FOUR PROJECTS Impacted Intersections and	Mitigations			AM Peak Hour	•						PM Peak Hour	•		
	MTP Cumu PF	ulative Plus ROJECTS	s FOUR		Mitigated M P	TP Cum Pl ROJECTS	us FOUR	MTP Cumu PF	lative Plus	s FOUR		Mitigated M P	TP Cum Pl	us FOUR
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
61 Eagles Nest Road & Florin Road	Two-way stop	F	>300	Yes	Signal	E	74.6	Two-way stop	F	>300	Yes	Signal	D	43.5
Northbound		F	>300						F	>300				
Southbound		F	>300						F	>300				
Eastbound Left Turn Westbound Left Turn		A A	9.7 7 9						Α	8.4				
67 Sunrise Boulevard & Douglas Road	Signal	F	229.1	Yes	Signal	F	199.3	Signal	F	90.7	Yes	Signal	F	87.9
69 Sunrise Boulevard & Kiefer Boulevard	Signal	F	144.6	Yes	Signal	F	95.0	Signal	E	63.9	Yes	Signal	D	45.2
74 Hazel Avenue & US 50 EB Ramps	Signal	В	16.1	No				Signal	F	99.6	Yes			
80 Grant Line Road & Jackson Road	Signal	F	85.9	Yes	Signal	D	48.5	Signal	D	51.3	No			
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	F	184.3	Yes	Signal	F	101.9	Signal	F	158.3	Yes	Signal	F	101.3
93 Grant Line Rd & Dwy/Wilton Rd	Signal	F	93.9	No				Signal	F	86.6	Yes	Signal	E	56.6
95 Florin Perkins Road & 14th Avenue	Signal	E	61.0	Yes				Signal	D	54.6	No			
96 Jackson Road & 14th Avenue	Signal	F	120.1	Yes				Signal	D	51.5	No			
102 Rancho Cordova Pkwy & White Rock Road	Signal	F	137.5	Yes				Signal	F	132.0	Yes			
310 Mayhew Road & Rock Creek Pkwy WB	Roundabout	F	162.1	Yes	Signal	E	63.3	Roundabout	F	202.2	Yes	Signal	D	42.7
311 Mayhew Road & Rock Creek Pkwy EB	Roundabout	F	198.6	Yes	Signal	E	63.3	Roundabout	F	92.3	Yes	Signal	D	42.7
318 Bradshaw Road & Mayhew Road	Signal	F	161.6	Yes	Signal	F	98.1	Signal	F	127.4	Yes	Signal	E	59.3

Tab	ble 5.13														
мт	P Cumulative Plus FOUR PROJECTS Impacted Intersections and	Mitigations													
					AM Peak Hour	ſ						PM Peak Hour	r		
		MTP Cum P	ulative Plus ROJECTS	s FOUR		Mitigated M P	TP Cum Plu ROJECTS	us FOUR	MTP Cumu Pl	Ilative Plus ROJECTS	FOUR		Mitigated M P	TP Cum Plu ROJECTS	us FOUR
	Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
32	5 Douglas Road & Kiefer Boulevard	Signal	F	207.5	Yes	Signal	F	138.9	Signal	F	127.5	Yes	Signal	E	76.4
320	6 Happy Lane & Mayhew Road	Roundabout	F	304.2	Yes	Signal	D	50.0	Roundabout	F	139.6	Yes	Signal	D	41.2
No	te: Gray shading represents changes in traffic control for which t	he project is re	esponsible	to pay a fai	r share.										

Table 5.14	.14													
MTP Cumulative Plus FOUR PROJECTS	Intersection Im	pacts and Mitig	gations											
	Traffic	Control	MTP Cumula	tive Plus FOUR	PROJECTS Lan	e Geometrics	Mitigated M	TP Cumulative F Geom	Plus FOUR PRO. etrics	IECTS Lane	LOS			
Intersection	MTP Cumulative Plus Project	Mitigated MTP Cumulative Plus Project	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Impact with Mitgation?	High Capacity Intersection? <sup>1</sup>	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
3 Power Inn Road/Howe Avenue & Folsom Blvd	Signal	Signal	ካካተተተ ፖ	~+++ <i>~~</i>	ካካተ ሾ	<u>ካካ†† ፖፖ</u>	ካካተተ ፖ	~+++~~	<u>א</u> ורר ד	<u>ካካ†† ፖፖ</u>	Yes	No		Existing development
4 Power Inn Road & 14th Avenue	Signal	Signal	ካተተ ሾ	~++++	ካተ ሾ	ካ† ፖ	ካተተ ሾ	~++++	nt r	ካተ ዮጵ	Yes	No		Existing development
12 Watt Avenue & Folsom Blvd.	Signal	Signal	<u> </u>	5111 <i>77</i>	<u>ካካ†† ፖ</u>	ካካ†† ፖ	<b>₩</b> 7	~ <i>7</i> /~	<u>ካካተተ ፖ</u>	<u>ካካ†† ፖ</u>	No	Yes	Grade separated NBT and SBT	
14 S. Watt Avenue & Kiefer Blvd.	Signal	Signal	<u>ካካ</u> ተተ ዮ	41144	ካካ†↑ ፖ	<u>ካካ††</u> ፖ		244	11 e	nt t	No	Yes	Tight Diamond Interchange (SB Watt Ramps/Kiefer intersection shown)	-
	Signal	Signal	ካካተተ ሾ	41144	<u> </u>	<u>ካካ†† ፖ</u>	57		n††	tt r			Night Diamond Interchange (NB Watt Ramps/Kiefer intersection shown)	
16 S. Watt Avenue & Jackson Road	Signal	Signal	ה ווורר	~	<u>ካካ††</u> ፖ	<u>ካካ†† ፖ</u>	<u> </u>	✔↓↓↓↓↓↓ *Free left	55111 C	אר ל ל מי Free right מי	No	Yes	Triple NBL, Free WBR and SBL via tunnel	
17 S. Watt Avenue & Fruitridge Road	Signal	Signal	<u>ה ווור</u>	21112	ካ† ሮ	ካ† ሾ	5111 r	א††ליר א††	nntt c	ካተ ዮ	Yes	No	Dual SBR	Existing development
18 S. Watt Avenue & Elder Creek Road	Signal	Signal	<u>ካ</u> ካ†↑ ፖ	~++ <i>~</i>	<u>ካካ</u> † ፖ	ካ† ፖ	<u>ካካተተ ፖ</u>	~+++**	5511 C	ካካተተ ፖ	No	No		
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	Signal	51 P	415	ካተ ዮ	ካተተ ፖ	<u>ካካ</u> ተ የ	2115C	nntt c	551 P	No	No		
23 Hedge Avenue & Jackson Road	Signal	Signal	<u>ጉ</u> ሾ	45	ካ† ሾ	ካ† ሾ	ኻኻ፟፟፟	45	nttt r	511 P	No	No	Dual NBL and exclusive EBR	
28 Mayhew Road & Kiefer Boulevard	Signal	Signal	ካ1 ፖ	214	ካ† ሾ	ካተ ሾ	ኻ↑ጽ	2166	51 ř	ከ11 ፖ	No	No	Dual SBL	
29 Mayhew Road & Jackson Road	Signal	Signal	<u>ካካተተ ሮ</u>	₩ ₩ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	<u>ካካተተ ፖ</u>	<u>ካካ††</u> ፖ	<u>ካካተተ ለ</u>	~	<u> </u>	<u>ካካ†††</u> ፖ	No	No		
31 Mayhew Road & Elder Creek Road	Signal	Signal	Ŷ	*	*	ካ† ፖ	*	2214	nntt c	stt e	No	No	Dual SBR	
32 Zinfandel Drive & Woodring Drive	Two-way stop	Signal	<b>n</b> ††	4↓	Ŷ		<b>n</b> ††	4↓	Y		No	No		
35 Bradshaw Road & US 50 EB Ramps	Signal	Signal	111 r	↓↓↓ ب	<u> </u>		111 r	۱۱ ۲	5500		Yes	No		Maximum General Plan Ianes
36 Bradshaw Road & Old Placerville Road	Signal	Signal	sttt e	41155	<b>n</b> ř	ካካ↑ ፖ	ካተተ ፖ	41144	<u>٦</u> ٢	<u>ה</u> ורר	Yes	No		Existing development
37 Bradshaw Road & Kiefer Boulevard	Signal	Signal	זאר <i>ו</i> ור מ	2111 <i>CC</i>	ה. הוד ב	ה ל † ה	55111 C	~+++~~	55111 c	ssttt a	Yes	No	Carry 3 EBT and 3 WBT lanes through intersection	Maximum General Plan Ianes

Note: Gray shading represents changes in traffic control or approach lanes for which the project is responsible to pay a fair share.

Table 5.14														
TP Cumulative Plus FOUR PROJECTS Intersection Impacts and Mitigations Traffic Control MTP Cumulative Plus FOUR PROJECTS Lane Geometrics Mitigated MTP Cumulative Plus FOUR PROJECTS Lane														
	Traffic	Control	MTP Cumula	tive Plus FOUR	PROJECTS Lan	e Geometrics	Mitigated M	FP Cumulative P Geom	Plus FOUR PROJ etrics	ECTS Lane	1.05			
Intersection	MTP Cumulative Plus Project	Mitigated MTP Cumulative Plus Project	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Impact with Mitgation?	High Capacity Intersection? <sup>1</sup>	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
38 Bradshaw Road & Jackson Road	Signal	Signal	55111 C	NTTRR	ה וורר <i>ב</i>	<u>ה</u> וורי	<u>ה</u> וורר מ	N T T T R R	<u>א</u> ודרר ר	<u>ה</u> וורר	Yes	No	HCI	Maximum General Plan Ianes
39 Bradshaw Road & Elder Creek Road	Signal	Signal	ካተተ ሥ	~+++ <i>r</i> ~	ኻኻሾ	<u>ካካ†† ፖ</u>	ካካተተ ፖ	~+++~~	<u>ካካተተ ለ</u>	<u>ካካ†† ፖ</u>	No	No		
42 Happy Lane & Old Placerville Road	Two-way stop	Signal	<u>۲</u> ۲		† r	<b>n</b> †	5511 cc	NT T CR	nntit e	<u>א</u> וררר ל	No	No	Realign Happy Lane to Routier Road (6 lanes), triple WBL and dual NBR (trap)	
44 Excelsior Road & Kiefer Boulevard	Signal	Signal	٦† c	2 L K	nt r	א <i>ד</i>	n† č	2 L K	nt r	ካ† ሾ	Yes	No		Maximum General Plan Ianes
45 Excelsior Road & Jackson Road	Signal	Signal	ካሾ	5 † † <i>r r</i>	<u> </u>	<u> ነነ</u> ነ ነ	<u>ካካተተ ፖ</u>	₩ ₩	ካካ††ተ ፖ	ካካ††ተ ፖ	No	No	NBR overlap	
47 Excelsior Road & Florin Road	Signal	Signal	5 ř	45	ъዮ	<u> ጉ</u> ዮ	51 M	415	57	<u> ጉ</u> ዮ	No	No		
48 Excelsior Road & Gerber Road/Birch Ranch Drive	All-way stop	Signal	*	*	Ý	*	٦ř	<i>₽</i> ↓ <i>⊾</i>	st c	ካተ ፖ	No	No		
51 Mather Field Road & Rockingham Drive	Signal	Signal	ካተተ ሾ	₩ ₩ ↓ ↓ ↓ ↓	ን ት ፖ	4 r	<u>ካተ ዮ</u>	~+++~	ን የ ፖ	۲ r	Yes	No		Existing development
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	Signal	ttt r	↓↓↓	<u> ነ</u> የ ፖ	<i></i>	ttt r	וְוְוְע	<u> ነ</u> ነ ኮፖ	<i></i>	Yes	No		Maximum General Plan Ianes
58 Zinfandel Drive & Douglas Road	Signal	Signal	<u>٦</u> ٢	2 † 6 C	ጓተ ሾ	<u>ካ</u> ካ†† ፖ	ካካ†† ፖ	4144	stt r	הה⊺⊺ר <i>ב</i>	No	No		
61 Eagles Nest Road & Florin Road	Two-way stop	Signal	*	*	*	*	5 ř	45	5 ř	٦ř	No	No		
67 Sunrise Boulevard & Douglas Road	Signal	Signal	<u>א</u> ורר ר	NT T T R R	ל 1 רב	<u>ה</u> ורר מ	55111 r	NTTTRR	nntit c	ה. הוורר	Yes	No		Maximum General Plan Ianes
69 Sunrise Boulevard & Kiefer Boulevard	Signal	Signal	<u>እ</u> †† ፖ	4144	ካካ†† ፖ	4 C	nnttt c	ATTICC.	<u>ካካተተ ፖ</u>	ntt r	Yes	No		Maximum General Plan Ianes
74 Hazel Avenue & US 50 EB Ramps	Signal	Signal	tt r	↓↓↓ ب	<u> </u>		t t 7	וְוְנֶ	<u> </u>		Yes	No		Maximum General Plan Ianes
80 Grant Line Road & Jackson Road	Signal	Signal	٦t٣	415	٦ř	<u>ኣ</u> ዮ	5 t P	414	st r	st r	No	No		
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	Signal	511 C	414	*	ካሾ	<u>ה ור מ</u>	414	5 ř	5 ř	No	No		

Note: Gray shading represents changes in traffic control or approach lanes for which the project is responsible to pay a fair share.

Tab	le 5.14														
MTP	TP Cumulative Plus FOUR PROJECTS Intersection Impacts and Mitigations Mitigated MTP Cumulative Plus FOUR PROJECTS Lane														
		Traffic	Control	MTP Cumula	tive Plus FOUR	PROJECTS Lan	e Geometrics	Mitigated M	TP Cumulative P Geom	lus FOUR PROJ etrics	ECTS Lane	LOS			Constraint if
	Intersection	MTP Cumulative Plus Project	Mitigated MTP Cumulative Plus Project	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Impact with Mitgation?	High Capacity Intersection? <sup>1</sup>	Alternative Mitigation <sup>2</sup>	Full Mitigation Not Possible
93	Grant Line Rd & Dwy/Wilton Rd	Signal	Signal	<u>ካ</u> ተ ሾ	415	ኻሾ	ኻሾ	<u> ነ</u> ተ ዮ	4155	ኻሾ	ኻሾ	No	No		
95	5 Florin Perkins Road & 14th Avenue	Signal	Signal	ካካ†† ፖ	NT TRR	<u>ካካ</u> ነተ ፖ	<u>ካካ††                                  </u>	<u>ה</u> ורר מ	NT T ZZ	ካካ†† ፖ	ካካ↑↑ ፖ	Yes	No		Maximum General Plan Ianes
96	Jackson Road & 14th Avenue	Signal	Signal		~ ~ ~	n††	tt r		~ ~ ~	n††	11 r	Yes	No		Maximum General Plan Janes
102	Rancho Cordova Pkwy & White Rock Road	Signal	Signal	אור אור א	2111 <i>.</i>	<u>ה</u> ורר מ	ה tt c	nntit c	211144	<u>א</u> ורר מ	<u>א</u> ורר ד	Yes	No		Maximum General Plan Janes
310	Mayhew Road & Rock Creek Pkwy	Roundabout	Signal	41	4↓		*	511 M	4115	st r	<u>ካ</u> ተ ፖ	No	No		
311	Mayhew Road & Rock Creek Pkwy EB	Roundabout	Signal	1 r	44	ママ		ntt M	4115	st c	st c	No	No		
318	Bradshaw Road & Mayhew Road	Signal	Signal	<u> </u>	~+++ <i>r</i> ~	<u>ካካ</u> በተ ፖ	<u>ጉጉ</u> በበ ሰ	<u> </u>	يي ا ا ا در	ז ו ו ז הרי זייר זייר	55111 c	Yes	No	HCI, Triple EBL and dual SBR	Maximum General Plan Ianes
325	Douglas Road/Shopping Center Dwy & Kiefer Boulevard	Signal	Signal	ה † מ	2 L K	እተተተ ፖ	<u>እ</u> ነተ ሮ	<u> </u>	NT TRR	nnttt e	ה. הוור מ	Yes	No	3 WBT	Maximum General Plan Ianes
326	δ Happy Lane & Mayhew Road	Roundabout	Signal	1 P	4↓	<u>ን</u> ሮ		<u>ካ</u> ካ††	ن ا بر <i>ب</i>	ኻኻሾ		No	No		
<sup>1</sup> Hi <sup>2</sup> Al	gh capacity intersections are def ternative mitigations represent p	ined in the Sa roposed mitig	acramento Co ations beyond	ounty General d the General	Plan and may Plan, excluding	include grade g high capacit	separations, a y intersections	dditional turn la , as proposed b	anes, and/or of by the County of	ther features a of Sacramento	s deemed app	propriate by	the County.		

Note: Gray shading represents changes in traffic control or approach lanes for which the project is responsible to pay a fair share.

### 5.5.3 MTP Cumulative Plus FOUR PROJECTS US 50 Freeway Mitigation

According to Caltrans' US-50 Transportation Concept Report (TCR) and Corridor System Management Plan (CSMP), all mainline freeway lanes of the 8-lane ultimate facility (4 lanes in each direction) have already been built, with the exception of the segment between Zinfandel Drive and Sunrise Boulevard (where 6 of the 8 ultimate lanes exist today). With the exception of this segment, capacity improvements to widen the freeway mainline are precluded by the ultimate configuration in the TCR/CSMP. The TCR/CSMP does conceptualize other projects that will benefit the US-50 corridor without adding additional mainline travel lanes. These improvements generally fall into one of three categories:

- Intelligent transportation systems (ITS) and integrated corridor management (ICM) projects. Some examples may include ramp metering and multimodal improvements.
- Improvements to parallel local facilities. Such projects are expected to reduce travel demand on US-50.
- Future HOV lanes and auxiliary lanes. These projects would extend, or bridge gaps in, the existing HOV and auxiliary lane network. Constructing these lanes is permissible even when further widening of the mainline is not allowable, and is consistent with the ultimate configuration in the TCR/CSMP.

The FOUR PROJECTS shall participate in one or more of these alternative improvements that could directly reduce the severity of the project's impact and/or provide operational benefits to the US-50 corridor in general.

#### 5.5.3.1 US-50 Eastbound Alternative Improvements

To lessen the impact to the eastbound US-50 mainline between Stockton Boulevard and 59th Street, the project may pay a fair share toward the construction of:

• Ramp meter improvements (Caltrans ITS/OPS Project List)

To lessen the impact to the eastbound US-50 weave between 65th Street and Howe Avenue, the project may pay a fair share toward the construction of:

- Ramp meter improvements (Caltrans ITS/OPS Project List)
- Widen 65th Street to 5 lanes from US-50 to Broadway (2035 SACOG MTP)

To lessen the impact to the eastbound US-50 mainline between Watt Avenue and Bradshaw Road, and to the Bradshaw Road exit, the project may pay a fair share toward the construction of:

• No mitigation measures identified

To lessen the impact to the weave between Mather Field Road to Zinfandel Drive, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Bradshaw Road and Mather Field Road (2035 SACOG MTP)
- An interchange modification of US-50 at Mather Field Road (2035 SACOG MTP)

To lessen the impact to the eastbound US-50 mainline between Zinfandel Drive and Hazel Avenue, and to the weave between Rancho Cordova Parkway and Hazel Avenue, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Zinfandel Drive and Sunrise Boulevard (2035 SACOG MTP)
- Auxiliary lanes between Sunrise Boulevard and Hazel Avenue (2035 SACOG MTP)
- Widen Sunrise Boulevard to 6 lanes with special treatments, including intersection improvements at White Rock Road, Folsom Boulevard, Coloma Road, Gold Express Drive, and Gold Country Boulevard (2035 SACOG MTP)
- A new interchange at Rancho Cordova Parkway, including a 4-lane arterial from US-50 to White Rock Road (2035 SACOG MTP)
- Multi-modal corridor improvements and interchange improvements at Hazel Avenue (2035 SACOG MTP)

#### 5.5.3.2 US-50 Westbound Alternative Improvements

To lessen the impact to the westbound US-50 weave between Hazel Avenue and Rancho Cordova Parkway, the project may pay a fair share toward the construction of:

- Multi-modal corridor improvements and interchange improvements at Hazel Avenue (2035 SACOG MTP)
- Auxiliary lanes between Hazel Avenue and Rancho Cordova Parkway (2035 SACOG MTP)

To lessen the impact to the westbound US-50 on-ramp at Sunrise Boulevard, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Sunrise Boulevard and Zinfandel Drive (2035 SACOG MTP)
- A transition lane from the Sunrise Boulevard slip off-ramp to the Sunrise Boulevard slip on-ramp (2035 SACOG MTP)

To lessen the impact to the westbound US-50 mainline between Mather Field Road and Bradshaw Road, and to the SB Bradshaw Road slip on-ramp, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Mather Field Road and Bradshaw Road (2035 SACOG MTP)
- An interchange modification of US-50 at Mather Field Road (2035 SACOG MTP)

To lessen the impact to the westbound US-50 mainline between Watt Avenue and SR-51/SR-99, and to the SB Howe Avenue slip on-ramp, the project may pay a fair share toward the construction of:

- Bus/HOV lanes from Watt Avenue to Downtown Sacramento (2035 SACOG MTP)
- Replacement of existing communication lines with fiber optics to improve performance between SR-51/SR-99 and Watt Avenue (2013 10-Year SHOPP Plan)
- Auxiliary lane between the NB Howe Avenue on-ramp and the SB Howe Avenue on-ramp (2035 SACOG MTP)
- Ramp meter improvements (Caltrans ITS/OPS Project List)

### 5.5.4 MTP Cumulative Plus FOUR PROJECTS Pedestrian and Bicycle Facility Mitigation

The FOUR PROJECTS applicants shall coordinate with Sacramento County to identify the necessary on- and off-site pedestrian and bicycle facilities to serve the proposed development.

These facilities shall be incorporated into the FOUR PROJECTS and could include sidewalks, stop signs, standard pedestrian, and school crossing warning signs, lane striping to provide a bicycle lane, bicycle parking, sign to identify pedestrian and bicycle paths, raised crosswalks, pedestrian signal heads, and all appropriate traffic calming measures as defined in the County's Neighborhood Traffic Management Program (NTMP). Sidewalks would be required as part of the frontage improvements along all new roadway construction in the FOUR PROJECTS vicinity in conformance with County design standards. Circulation and access to all proposed public spaces shall include sidewalks that meet Americans with Disabilities Act standards.

### 5.5.5 MTP Cumulative Plus FOUR PROJECTS Transit System Mitigation

The applicants of the FOUR PROJECTS shall coordinate with Regional Transit (or other transit operators) to provide the additional transit facilities and services assumed in transportation analysis (see Section 3.1.2.3), or a cost-effective equivalent level of transit facilities and services.

The assumed transit routes and service frequency would be required at full development of the FOUR PROJECTS. The full level of transit service would not achieve adequate transit ridership during the early stages of development. Thus the ultimate transit service, like the roadway system serving the FOUR PROJECTS, must be phased with development of the FOUR PROJECTS.

### 5.5.6 MTP Cumulative Plus FOUR PROJECTS Functionality Mitigation

Table 5.15 summarizes the results of the functionality analysis for the study area rural roadway segments with mitigation.

### 5.5.7 MTP Cumulative Plus FOUR PROJECTS Mitigation Summary

Tables 5.16 through 5.21 summarize all of the roadway segments, intersections, and freeway facilities that would exhibit significant LOS impacts along with the mitigation success for these impacts.

# Table 5.15MTP Cumulative Plus FOUR PROJECTS Functionality Mitigations

		Seg	ment	Ι	MTP Cumulative +	FOUR PROJ	ECTS		Impact offer
ID	Roadway	From	То	Travel Lanes	Substandard? <sup>1</sup>	Forecasted Volume	Functionality Impact? <sup>2</sup>	Mitigation	Mitigation?
15	Douglas Rd	Mather Blvd	Zinfandel Dr	4	No	30,940	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	6	No	39,820	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	4	No	13,460	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
20	Eagles Nest Rd	Jackson Rd	Florin Rd	2	Yes	9,590	Yes	Widen to County standards <sup>5</sup>	No
25	Elder Creek Rd	South Watt Ave	Hedge Ave	2	Yes	43,150	Yes	Widen to County standards <sup>5</sup>	No
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	2	Yes	43,640	Yes	Widen to County standards <sup>5</sup>	No
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	3	No	17,180	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd	3	No	27,790	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
30	Excelsior Rd	Kiefer Blvd	Jackson Rd	2	Yes	29,040	Yes	Widen to County standards <sup>5</sup>	No
31	Excelsior Rd	Jackson Rd	Elder Creek Rd	3	No	35,140	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
32	Excelsior Rd	Elder Creek Rd	Florin Rd	3	No	11,870	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
33	Excelsior Rd	Florin Rd	Gerber Rd	2	Yes	14,310	Yes	Widen to County standards <sup>5</sup>	No
34	Excelsior Rd	Gerber Rd	Calvine Rd	2	Yes	8,990	Yes	Widen to County standards <sup>5</sup>	No
39	Florin Rd	South Watt Ave	Hedge Ave	4	No	9,410	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
40	Florin Rd	Hedge Ave	Mayhew Rd	4	No	9,160	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
41	Florin Rd	Mayhew Rd	Bradshaw Rd	4	No	32,310	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
42	Florin Rd	Bradshaw Rd	Excelsior Rd	4	No	20,460	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
43	Florin Rd	Excelsior Rd	Sunrise Blvd	2	Yes	11,880	Yes	Widen to County standards <sup>5</sup>	No
48	Fruitridge Rd	South Watt Ave	Hedge Ave	3	No	19,590	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
49	Fruitridge Rd	Hedge Ave	Mayhew Rd	4	No	22,940	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
50	Grant Line Rd	White Rock Rd	Douglas Rd	4	No	19,330	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	4	No	49,530	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
59	Hedge Ave	Jackson Rd	Fruitridge Rd	2	Yes	9,640	Yes	Widen to County standards <sup>5</sup>	No
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	6	No	54,830	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	4	No	50,100	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	6	No	49,620	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	3	No	22,480	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No

Red text with light gray shading indicate project impacts.



# Table 5.15MTP Cumulative Plus FOUR PROJECTS Functionality Mitigations

		Segi	ment	Ν	MTP Cumulative -	FOUR PROJ	ECTS		Immed offen
ID	Roadway	From	То	Travel Lanes	Substandard? <sup>1</sup>	Forecasted Volume	Functionality Impact? <sup>2</sup>	Mitigation	Mitigation?
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd	2	Yes	14,550	Yes	Widen to County standards <sup>5</sup>	No
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	4	No	45,500	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	4	No	38,630	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	4	No	30,180	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

<sup>2</sup> Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT. <sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to

<sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway a the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.

Red text with light gray shading indicate project impacts.



 Table 5.16

 MTP Cumulative Plus FOUR PROJECTS Summary of Impacted Roadway Segments



ID	Deelenen	Seg	nent
ID	Koadway	From	То
	Level of Service Impa	ct Fully Mitigated by Gene	eral Plan Lanes
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd
25	Elder Creek Rd	South Watt Ave	Hedge Ave
26	Elder Creek Rd	Hedge Ave	Mayhew Rd
28.1	Elder Creek Rd	Bradshaw Rd	Vineyard Rd
31.1	Excelsior Rd	Jackson Rd	Collector WJ-6
31.2	Excelsior Rd	Collector WJ-6	Elder Creek Rd
36	Florin Rd	Stockton Blvd	Power Inn Rd
42.2	Florin Rd	Vineyard Rd	Excelsior Rd
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave
48	Fruitridge Rd	South Watt Ave	Hedge Ave
56	Grant Line Rd	Sheldon Rd	Wilton Rd
57	Grant Line Rd	Wilton Rd	Bond Rd
67	Jackson Rd	South Watt Ave	Hedge Ave
71.1	Jackson Rd	Excelsior Rd	Collector JT-3
71.2	Jackson Rd	Collector JT-3	Tree View Ln
73	Jackson Rd	Sunrise Blvd	Grant Line Rd
78.4	Kiefer Blvd	E Collector MS-1	Sunrise Blvd
89.1	Mayhew Rd	Jackson Rd	Rock Creek Pkwy
89.2	Mayhew Rd	Rock Creek Pkwy	Fruitridge Rd
92	Old Placerville Rd	Happy Ln	Routier Rd
100	South Watt Ave	Elder Creek Rd	Florin Rd
122	Zinfandel Dr	City Limit	Douglas Rd
308	Mayhew Rd	Happy Ln	Bradshaw Rd
309	Mayhew Rd	Bradshaw Rd	Jackson Rd
311	Mayhew Rd	Collector WJ-13	Elder Creek Rd
405	Collector JT-3	Collector JT-5	Jackson Rd
602	Collector MS-2	Eagles Nest Rd	Collector MS-5
	Level of Service Impact	Not Fully Mitigated by Ge	neral Plan Lanes
2	Bradshaw Rd	US 50	Lincoln Village Dr
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd
5.1	Bradshaw Rd	Goethe Rd	Collector WJ-8
5.2	Bradshaw Rd	Collector WJ-8	Kiefer Blvd
6.1	Bradshaw Rd	Kiefer Blvd	Collector WJ-9
6.2	Bradshaw Rd	Collector WJ-9	Mayhew Rd
37	Florin Rd	Power Inn Rd	Florin-Perkins Rd

Note: Refer to Table 5.12 for detailed description of impacts and mitigations.

 Table 5.16

 MTP Cumulative Plus FOUR PROJECTS Summary of Impacted Roadway Segments



ID	Deadway	Segment		
ID	Koadway	From	То	
44	Folsom Blvd	Howe Ave	Jackson Rd	
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	
62	Howe Ave	US 50	Folsom Blvd	
66.1	Jackson Rd	Florin Perkins Rd	14th Ave	
66.2	Jackson Rd	14th Ave	Rock Creek Pkwy	
66.3	Jackson Rd	Rock Creek Pkwy	Aspen 1 Dwy	
66.4	Jackson Rd	Aspen 1 Dwy	South Watt Ave	
68.1	Jackson Rd	Hedge Ave	Collector WJ-3	
68.2	Jackson Rd	Collector WJ-3	Mayhew Rd	
70.1	Jackson Rd	Bradshaw Rd	Collector WJ-4	
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd	
79	Kiefer Blvd	Sunrise Blvd	Rancho Cordova Pkwy	
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd	
93	Old Placerville Rd	Routier Rd	Rockingham Dr	
95	Rockingham Dr	Old Placerville Rd	Mather Field Rd	
96	South Watt Ave	Folsom Blvd	Kiefer Blvd	
97	South Watt Ave	Kiefer Blvd	Jackson Rd	
104.2	Sunrise Blvd	International Dr	Rio Del Oro Pkwy	
104.3	Sunrise Blvd	Rio Del Oro Pkwy	Douglas Rd	
110	Watt Ave	US 50	Folsom Blvd	
302	Happy Ln	Kiefer Blvd	Mayhew Rd	
305	Kiefer Blvd	Happy Ln	Collector WJ-15	
306	Kiefer Blvd	Collector WJ-15	Douglas Rd	

Note: Refer to Table 5.12 for detailed description of impacts and mitigations.

Tabl	Table 5.17			
MTP	MTP Cumulative Plus FOUR PROJECTS Summary of Impacted Intersections			
	Intersection	Alternative Mitigation		
	Level of Service Impact Fully Mitigated by General Plan Lanes			
20	Elk Grove Florin Road/S. Watt Ave. & Florin Road			
23	Hedge Avenue & Jackson Road	**		
29	Mayhew Road & Jackson Road			
31	Mayhew Road & Elder Creek Road	**		
32	Woodring Drive & Zinfandel Drive			
39	Bradshaw Road & Elder Creek Road			
42	Happy Lane & Old Placerville Road	**		
47	Excelsior Road & Florin Road			
48	Excelsior Road & Gerber Road/Birch Ranch Drive			
58	Zinfandel Drive & Douglas Road			
61	Eagles Nest Road & Florin Road			
80	Grant Line Road & Jackson Road			
91	Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd			
93	Grant Line Rd & Dwy/Wilton Rd			
310	Mayhew Road & Rock Creek Pkwy WB			
311	Mayhew Road & Rock Creek Pkwy EB			
326	Happy Lane & Mayhew Road			

Tabl	Table 5.17			
WITP	Intersection	Alternative Mitigation		
	Level of Service Impact Not Fully Mitigated by General Plan Lanes But Designated High Capacity Intersection			
12	Watt Avenue & Folsom Blvd.	**		
14	S. Watt Avenue & Kiefer Blvd.	**		
16	S. Watt Avenue & Jackson Road	**		
	Level of Service Impact Not Fully Mitigated by General Plan Lanes			
3	Power Inn Road/Howe Avenue & Folsom Blvd			
4	Power Inn Road & 14th Avenue			
17	S. Watt Avenue & Fruitridge Road	*		
18	S. Watt Avenue & Elder Creek Road			
28	Mayhew Road & Kiefer Boulevard	**		
35	Bradshaw Road & US 50 EB Ramps			
36	Bradshaw Road & Old Placerville Road			
37	Bradshaw Road & Kiefer Boulevard	*		
38	Bradshaw Road & Jackson Road	*		
44	Excelsior Road & Kiefer Boulevard			
45	Excelsior Road & Jackson Road	**		
51	Mather Field Road & Rockingham Drive			
54	Zinfandel Drive & US 50 EB Ramps/Gold Center Drive			

Tabl	~ 5 47			
labi	Table 5.17			
MTP	MTP Cumulative Plus FOUR PROJECTS Summary of Impacted Intersections			
	Intersection	Alternative Mitigation		
67	Sunrise Boulevard & Douglas Road			
69	Sunrise Boulevard & Kiefer Boulevard			
74	Hazel Avenue & US 50 EB Ramps			
95	Florin Perkins Road & 14th Avenue			
96	Jackson Road & 14th Avenue			
102	Rancho Cordova Pkwy & White Rock Road			
318	Bradshaw Road & Mayhew Road	*		
325	Douglas Road & Kiefer Boulevard	*		
<sup>1</sup> Alternative mitigations represent proposed mitigations beyond the General Plan, excluding designated high capacity intersections, as proposed by the County of Sacramento.				
* dei ** de	* denotes alternative mitigations that improve operations but do not fully mitigate the impact. ** denotes alternative mitigations that fully mitigate the impact.			

# Table 5.18

# MTP Cumulative Plus FOUR PROJECTS Summary of Impacted Freeway Segments

Direction Location					
	Level of Service Impact Not Mitigated				
	Stockton Boulevard to 59th Street				
	Watt Avenue to Bradshaw Road				
Eastbound US-50	Zinfandel Drive to Sunrise Boulevard				
	Sunrise Boulevard to Rancho Cordova Parkway				
	Rancho Cordova Parkway to Hazel Avenue				
	Mather Field Road to Bradshaw Road				
	Watt Avenue to Howe Avenue				
Westbound	Howe Avenue to 65th Street				
US-50	65th Street to 59th Street				
	59th Street to Stockton Boulevard				
	Stockton Boulevard to SR 99 / SR 51				
Source: DKS Asso	<i>ciates</i> , 2014.				

Table 5.19 MTP Cumulative Plus FOUR PROJECTS Summary of Impacted Freeway Ramp Junction/Weaves				
Direction	Location	Junction Type		
	Level of Service Impact Not Mitigated			
	Northbound 65th Street Slip Entrance	Waawa		
	Howe Avenue / Hornet Drive Exit	- weave		
Eastbound	Bradshaw Road Exit			
US-50	Northbound Mather Field Road Slip Entrance	117		
	Zinfandel Drive Exit	— weave		
	Rancho Cordova Parkway Entrance	<b>XX</b> 7		
	Hazel Avenue Exit	— weave		
	Southbound Hazel Avenue Slip Entrance	<b>W</b> 7		
Westbound	Rancho Cordova Parkway Exit			
US-50	Southbound Sunrise Boulevard Slip Entrance	Lane Addition		
Source: DKS Associe	ates, 2014.			

Table 5.20 MTP Cumulative Plus FOUR PROJECTS Summary of Impacted Freeway Ramp Termini				
Direction US 50 Exit Ramp				
Queuing Impact Not Mitigated				
Easthourd US 50	Howe Avenue			
Eastbound US-50	Zinfandel Drive			
Source: DKS Associates, 2014.				

# Table 5.21MTP Cumulative Plus FOUR PROJECTS Functionality Impact Summary

E.



		Segment			
ID	Roadway	From	То		
Functionality Impact Fully Mitigated					
15	Douglas Rd	Mather Blvd	Zinfandel Dr		
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd		
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd		
20	Eagles Nest Rd	Jackson Rd	Florin Rd		
25	Elder Creek Rd	South Watt Ave	Hedge Ave		
26	Elder Creek Rd	Hedge Ave	Mayhew Rd		
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd		
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd		
30	Excelsior Rd	Kiefer Blvd	Jackson Rd		
31	Excelsior Rd	Jackson Rd	Elder Creek Rd		
32	Excelsior Rd	Elder Creek Rd	Florin Rd		
33	Excelsior Rd	Florin Rd	Gerber Rd		
34	Excelsior Rd	Gerber Rd	Calvine Rd		
39	Florin Rd	South Watt Ave	Hedge Ave		
40	Florin Rd	Hedge Ave	Mayhew Rd		
41	Florin Rd	Mayhew Rd	Bradshaw Rd		
42	Florin Rd	Bradshaw Rd	Excelsior Rd		
43	Florin Rd	Excelsior Rd	Sunrise Blvd		
48	Fruitridge Rd	South Watt Ave	Hedge Ave		
49	Fruitridge Rd	Hedge Ave	Mayhew Rd		
50	Grant Line Rd	White Rock Rd	Douglas Rd		
58	Happy Ln	Old Placerville Rd	Kiefer Blvd		
59	Hedge Ave	Jackson Rd	Fruitridge Rd		
70	Jackson Rd	Bradshaw Rd	Excelsior Rd		
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd		
77	Kiefer Blvd	Bradshaw Rd	Happy Ln		

# Table 5.21MTP Cumulative Plus FOUR PROJECTS Functionality Impact Summary



		Segment		
ID	Roadway	From	То	
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd	
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	

# 6. CEQA CUMULATIVE PLUS FOUR PROJECTS SCENARIO

#### 6.1 FOUR PROJECTS DESCRIPTION

The CEQA Cumulative plus FOUR PROJECTS scenario evaluates the effects of the traffic of four developments added to CEQA Cumulative conditions. Figure 4.1 illustrates the location of the FOUR PROJECTS:

- West Jackson Highway Master Plan (West Jackson)
- Jackson Township Specific Plan (Jackson Township)
- NewBridge Specific Plan (NewBridge)
- Mather South Specific Plan Amendment (Mather South)

### 6.1.1 CEQA Cumulative Land Use

Outside the FOUR PROJECTS area (see Figure 4.1), SACOG's 2035 development forecasts (the amount and location of housing and employment) for the adopted 2012 Metropolitan Transportation Plan (MTP) were used to prepare travel demand forecasts for this scenario. In addition, full build out of all reasonably foreseeable development projects was assumed within the study area, including the following major developments:

- Unincorporated Sacramento County
  - Vineyard Springs Comprehensive Plan
  - North Vineyard Station Specific Plan
  - Florin Vineyard Gap Community Plan
  - Mather Airport Specific Plan
  - Cordova Hills
  - Easton
  - Glenborough
  - East County Quarries
- City of Ranch Cordova
  - Arboretum
  - Suncreek
  - Sunridge Ranch
  - Rio del Oro
  - Westborough
- City of Folsom
  - Folsom South of 50 Specific Plan
- City of Sacramento
  - Aspen 1

#### 6.1.2 Transportation Network

Figure 6.1 illustrates the transportation network associated with the CEQA Cumulative without FOUR PROJECTS scenario. Outside the FOUR PROJECTS area (see Figure 4.1), it consists of the improvements through 2035 in the adopted 2012 Metropolitan Transportation Plan (MTP). Within the FOUR PROJECTS area, it includes roadway improvements beyond those in the MTP, which would be fully funded by the developments assumed in this scenario or by other committed funding sources. Sacramento County staff helped define such improvements and the number of roadway lanes for this scenario.

Figure 6.2 illustrates the transportation network associated with the CEQA Cumulative with FOUR PROJECTS scenario. The FOUR PROJECTS would construct new roadways within their sites, and widen many existing roadways within or on the borders of their sites. Details of this expansion of the roadway system is included in Section 6.2.1.

#### 6.1.2.3 Pedestrian and Bicycle Facilities

The roadways within the FOUR PROJECTS would meet County standards, which would provide sidewalks and on-street (Class II) bike lanes on all collector, arterial and thoroughfare roadways. The FOUR PROJECTS also provide several off-street (Class I) multi-purpose trails.

#### 6.1.2.4 Transit System

The FOUR PROJECTS are designed with significant amounts of higher density and mixed uses to help support transit use but transit service within walking distances of those uses is required to achieve a significant transit ridership. An accurate estimation of transit use requires the definition of specific transit routes and frequency of service on those routes. A separate planning effort, involving staff from Sacramento County and Sacramento Regional Transit (RT), was conducted to define an appropriate transit system for the transportation analysis. That effort is described in Section 3.1.2.3.

The planning effort resulted in four transit lines that would serve the FOUR PROJECTS at a frequency of 15 minutes throughout the typical operating hours (approximately 6 AM to 8 PM) on weekdays. Another key characteristic of the proposed transit system built into the modeling assumptions is the targeted use of queue jumps on portions of key corridors (Bradshaw Road from Kiefer Boulevard to Rock Creek Parkway, and Jackson Road from Watt Avenue to Excelsior Road). Queue jumps ensure that buses are not excessively delayed at signals along congested corridors, and therefore not too heavily penalized from a travel time perspective. This is necessary to achieve the adequate ridership levels that were forecast and ensure reliable operations. Figure 6.3 shows the assumed transit routes for this scenario.

The assumed transit routes, service frequency, and supporting infrastructure (i.e. queue jumps) would be required at full development of the FOUR PROJECTS. The full level of transit service would not achieve adequate transit ridership during the early stages of development. Thus the ultimate transit service, like the roadway system serving the FOUR PROJECTS, must be phased with development of the FOUR PROJECTS.



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# FIGURE 6.1 CEQA CUMULATIVE NO PROJECT ROADWAY NETWORK

# Legend







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# FIGURE 6.2 CEQA CUM PLUS FOUR PROJECTS ROADWAY NETWORK

# Legend







# FIGURE 6.3 PROJECT TRANSIT NETWORK CEQA CUM PLUS FOUR PROJECTS

# Legend

Jackson Express Route (JEX)

- Kiefer Jackson Local Route (KJL)
- Rock Creek Parkway Route (RCPK)
  - West Jackson Local Shuttle (WJL)



Cities

Mather Airport



#### 6.2 TRIP GENERATION

The SACSIM model that has been utilized for the transportation forecasts in this analysis estimated trip generation of the FOUR PROJECTS. Table 6.1 summarizes the person trip generation. The FOUR PROJECTS would generate over 107,000 daily work person trip ends, and over 929,000 daily person trip ends for all trip purposes.

Table 6.2 summarizes the estimated mode choice for the CEQA cumulative with FOUR PROJECTS scenario. Over 90 percent of all person trips are expected to be accommodated by automobile. Transit will serve about 2 percent of all trips, while walk and bike modes will accommodate about 7.2 percent of all trips. The mode choice assumes full implementation of the project's pedestrian and bicycle systems.

Table 6.3 summarizes the vehicular (auto) trip generation of the FOUR PROJECTS. The FOUR PROJECTS are estimated to generate over 604,000 daily vehicle trip ends. About 46,000 of the daily vehicle trip ends will be associated with trips with both an origin and destination within the individual projects, about 15 percent of the trip ends. The internal trip ends represent about 23,000 daily vehicle trips (one-half the number of internal trip ends). The FOUR PROJECTS will generate about 512,800 external vehicle trips that have an origin or destination inside one of the FOUR PROJECTS but the other end of the trip is outside the project from which it originated. Table 6.3 also shows the vehicle trips generated during the a.m. and p.m. peak hours.

#### 6.3 **TRIP DISTRIBUTION**

The distribution of trips associated with development of the FOUR PROJECTS was derived utilizing SACSIM, incorporating the proposed land use and access locations associated with the FOUR PROJECTS. Trip distribution varies by land use and time period. Figure 6.4 illustrates the overall trip distribution of daily FOUR PROJECTS trips with the CEQA Plus FOUR PROJECTS scenario. The highest percentages of FOUR PROJECTS traffic are accommodated on Jackson Road, Bradshaw Road, Kiefer Boulevard, and Vineyard Road.

# Table 6.1: Estimated Daily Person Trip Generation (CEQA Cumulative Plus FOURPROJECTS Scenario)

### FOUR PROJECTS

Trip Purpose	Daily Person Trip Ends	
Work Trips	107,188	
Non-Work Trips	822,512	
All Trip Purposes	929,700	
Source: DKS Associates, 2014.		

## Table 6.2: Mode Split (CEQA Cumulative Plus FOUR PROJECTS Scenario)

#### FOUR PROJECTS

	Percentage of Person Trips by Trip Purpose			
Mode	Work Trips	Non-Work Trips	All Trip Purposes	
Auto - SOV	84.2%	49.8%	53.8%	
Auto - HOV	9.9%	40.6%	37.1%	
Transit	3.5%	1.8%	2.0%	
Walk	1.6%	7.0%	6.4%	
Bike	0.9%	0.8%	0.8%	
Source: DKS Associates, 2014.				

# Table 6.3: Estimated Daily Vehicle Trip Generation (CEQA Cumulative Plus FOUR PROJECTS Scenario)

#### FOUR PROJECTS

Тгір Туре		AM Peak Hour	PM Peak Hour	Daily
Total Vehicle Trip Ends		49,555	83,827	641,649
Percent Internal Trip Ends <sup>1</sup>		20.5%	28.1%	24.0%
Vehicle Trips	Internal to Projects	5,072	11,762	76,943
	External to Projects	39,410	60,303	487,741
	Total	44,482	72,065	564,684

<sup>1.</sup> Both trip ends within individual projects.

Source: DKS Associates, 2014.



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# FIGURE 6.4 CEQA CUM PLUS FOUR PROJECTS FOUR PROJECTS TRIP DISTRIBUTION

# Legend

0.1% to 2.5%
 2.6% to 5.0%
 5.1% to 10.0%
 10.0% and up
 Freeways
 Other Major Roadways
 Cities

Mather Airport



#### 6.4 **OPERATIONS ANALYSIS AND IMPACTS**

Cumulative scenario impacts are determined by comparing the traffic operating conditions associated with the FOUR PROJECTS with the traffic operating conditions associated with the cumulative (without FOUR PROJECTS) conditions, and comparing the change to the thresholds of significance. Figure 6.5 illustrates the resultant traffic operating conditions associated with the CEQA Cumulative (without FOUR PROJECTS) scenario. Figure 6.6 illustrates the resultant traffic operating conditions associated with the CEQA Cumulative (without FOUR PROJECTS) scenario. Figure 6.6 illustrates the resultant traffic operating conditions associated with the CEQA Cumulative (without FOUR PROJECTS) scenario.

### 6.4.1 CEQA Cumulative Plus FOUR PROJECTS Roadway Segment Impacts

Table 6.4 summarizes the results of the operations analysis for the study area roadway segments. The table includes the number of lanes assumed with the implementation of the FOUR PROJECTS. The shaded table cells under the "Travel Lanes" and "Facility Type" headings illustrate new roadways or widened roadways. The last column of the table shows the project(s) responsible for the increase in the number of roadway lanes. The shaded table cells under the "Level of Service" heading indicate those locations with an LOS impact.

### 6.4.2 CEQA Cumulative Plus FOUR PROJECTS Intersection Impacts

Table 6.5 and 6.6 summarize the results of the operations analysis for the study area intersections. The tables include the implementation of intersection changes associated with the FOUR PROJECTS. Table 6.6 illustrates the type of traffic control and number of lanes by type on each study area intersection approach. Shaded table cells indicate those locations where changes in traffic control and / or number of approach lanes by type would be fully funded by the project(s) shown in the last column. Shaded table cells in Table 6.5 illustrate those locations with an LOS impact. Detailed analysis information is included in the technical appendix.

Signal warrant analysis was conducted for all unsignalized intersections along Jackson Road, and other unsignalized intersections in close proximity to the project. The project is considered to have a significant impact at an unsignalized location if both the impact criteria in Table 1.6 are met, and one or more of the signal warrants specified in the California Manual on Uniform Traffic Control Devices (CAMUTCD) are met. Detailed signal warrant calculation sheets are included in the technical appendix. The following unsignalized intersections exhibit significant impacts and meet one or more traffic signal warrants:

- Zinfandel Drive and Woodring Drive
- Happy Lane and Old Placerville Road
- Eagles Nest Road and Florin Road

### 6.4.3 CEQA Cumulative Plus FOUR PROJECTS U.S. 50 Freeway Impacts

### 6.4.3.1 Freeway Mainline

Table 6.7 summarizes a.m. and p.m. peak hour US 50 freeway mainline operations. Details of the analysis are included in the technical appendix. The following locations exhibit significant impacts:

- Eastbound
  - Stockton Boulevard to 59th Street a.m. and p.m. peak hours
  - Watt Avenue to Mather Field Road a.m. peak hour
  - Zinfandel Drive to Hazel Avenue p.m. peak hour
- Westbound
  - Watt Avenue to Howe Avenue p.m. peak hour
  - Howe Avenue to 59th Street a.m. and p.m. peak hours
  - 59th Street to SR 99 / SR 51 p.m. peak hour

### 6.4.3.2 Freeway Ramp Junctions / Weaving

Table 6.8 summarizes a.m. and p.m. peak hour freeway operations at ramp junctions and weaving areas. Details of the analysis are included in the technical appendix. The following locations exhibit significant impacts:

- Eastbound
  - 65th Street to Howe Avenue weave a.m. and p.m. peak hours
  - Bradshaw Road exit a.m. peak hour
  - Mather Field Road to Zinfandel Drive weave a.m. and p.m. peak hours
  - Rancho Cordova Parkway to Hazel Avenue weave a.m. and p.m. peak hours
- Westbound
  - Hazel Avenue to Rancho Cordova Parkway weave a.m. and p.m. peak hours
  - Southbound Sunrise Boulevard Entrance Ramp a.m. peak hour
  - Northbound Bradshaw Road Loop Entrance Ramp a.m. peak hour
  - Southbound Bradshaw Road Slip Entrance Ramp a.m. peak hour
  - Southbound Howe Avenue Slip Entrance Ramp a.m. peak hour

### 6.4.3.3 Freeway Ramp Intersection Queuing

Tables 6.9 and 6.10 summarize a.m. and p.m. peak hour freeway ramp intersection queuing. The following locations exhibit a significant impact:

- Eastbound
  - Exit ramp to Howe Avenue right turn queue length exceeds available storage
- Westbound
  - Exit ramp to Rancho Cordova Parkway left turn queue length exceeds available storage



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# FIGURE 6.5 CEQA CUMULATIVE NO PROJECT ROADWAY SEGMENT AND INTERSECTION LOS AND IMPACTS

# Legend

# Intersections (AM Peak Hour)

- LOS A-D
- LOS E
- LOS F

## Intersections (PM Peak Hour)

- LOS A-D
- LOS E
- LOS F

## **Roadway Segments**

- LOS A-D
- LOS E
- LOS F
- Cities
  - Mather Airport





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# FIGURE 6.6 CEQA CUM PLUS FOUR PROJECTS ROADWAY SEGMENT AND INTERSECTION LOS AND IMPACTS

# Legend

## Intersections (AM Peak Hour)

- LOS A-D
- los e
- LOS F

## Intersections (PM Peak Hour)

- LOS A-D
- los e
- LOS F
- Mitigable Intersection Impact
  - Unavoidable Intersection Impact

## **Roadway Segments**

- LOS A-D
- LOS E
- LOS F

## Impacts

- Unavoidable Segment Impact
- IIIII Mitigable Segment Impact



Mather Airport


		Seg	ment		CEQA	<b>Cumulative N</b>	o Project			CEQA Cum	ulative + FOU	R PROJECT	ſS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
1	Bradshaw Rd	Folsom Blvd	US 50	6	Arterial M	27,690	0.51	А	6	Arterial M	24,810	0.46	А	
2	Bradshaw Rd	US 50	Lincoln Village Dr	6	Arterial M	66,570	1.23	F	6	Arterial M	88,900	1.65	F	
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd	6	Arterial M	52,770	0.98	Е	6	Arterial M	81,450	1.51	F	
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd	6	Arterial M	62,130	1.15	F	6	Arterial M	81,000	1.50	F	
5.1	Bradshaw Rd	Goethe Rd	Collector WJ-8	6	Arterial M	46,870	0.87	D	6	Arterial M	70,200	1.30	F	
5.2	Bradshaw Rd	Collector WJ-8	Kiefer Blvd	6	Arterial M	45,290	0.84	D	6	Arterial M	66,370	1.23	F	
6.1	Bradshaw Rd	Kiefer Blvd	Collector WJ-9	6	Arterial M	51,100	0.95	Е	6	Arterial M	68,950	1.28	F	
6.2	Bradshaw Rd	Collector WJ-9	Mayhew Rd	6	Arterial M	51,960	0.96	Е	6	Arterial M	68,690	1.27	F	
6.3	Bradshaw Rd	Mayhew Rd	Jackson Rd	6	Arterial M	51,930	0.96	Е	6	Arterial M	43,320	0.80	D	
7.1	Bradshaw Rd	Jackson Rd	Rock Creek Pkwy	6	Arterial M	52,210	0.97	Е	6	Arterial M	43,750	0.81	D	
7.2	Bradshaw Rd	Rock Creek Pkwy	Collector WJ-10	6	Arterial M	52,210	0.97	Е	6	Arterial M	49,890	0.92	Е	
7.3	Bradshaw Rd	Collector WJ-10	Collector WJ-11	6	Arterial M	52,380	0.97	Е	6	Arterial M	47,120	0.87	D	
7.4	Bradshaw Rd	Collector WJ-11	Elder Creek Rd	6	Arterial M	52,440	0.97	Е	6	Arterial M	46,560	0.86	D	
8	Bradshaw Rd	Elder Creek Rd	Florin Rd	6	Arterial M	45,030	0.83	D	6	Arterial M	50,650	0.94	Е	
9	Bradshaw Rd	Florin Rd	Gerber Rd	6	Arterial M	42,410	0.79	С	6	Arterial M	52,310	0.97	Е	
10	Bradshaw Rd	Gerber Rd	Calvine Rd	6	Arterial M	29,910	0.55	А	6	Arterial M	37,560	0.70	В	
11	Calvine Rd	Waterman Rd	Bradshaw Rd	6	Arterial M	16,760	0.31	А	6	Arterial M	18,490	0.34	А	
12	Calvine Rd	Bradshaw Rd	Vineyard Rd	6	Arterial M	14,540	0.27	А	6	Arterial M	14,820	0.27	А	
13	Calvine Rd	Vineyard Rd	Excelsior Rd	4	Arterial M	8,460	0.24	А	4	Arterial M	10,280	0.29	А	
14	Chrysanthy Blvd	Sunrise Blvd	Rancho Cordova Pkwy	4	Arterial M	7,980	0.22	А	4	Arterial M	12,520	0.35	А	
15	Douglas Rd	Mather Blvd	Zinfandel Dr	4	Arterial M	21,130	0.59	А	4	Arterial M	35,330	0.98	Е	
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	6	Arterial M	37,070	0.69	В	6	Arterial M	48,540	0.90	D	
17	Douglas Rd	Sunrise Blvd	Rancho Cordova Pkwy	5	Arterial M	42,430	1.18	F	5	Arterial M	41,470	1.15	F	
18.1	Douglas Rd	Rancho Cordova Pkwy	Americanos Blvd	5	Arterial M	42,610	1.18	F	5	Arterial M	41,670	1.16	F	
18.2	Douglas Rd	Americanos Blvd	Grant Line Rd	5	Arterial M	33,170	0.92	Е	5	Arterial M	30,940	0.86	D	
19.1	Eagles Nest Rd	Kiefer Blvd	N Bridgewater Dr	2	Arterial M	4,680	0.26	А	4	Arterial M	14,060	0.39	А	NewBridge
19.2	Eagles Nest Rd	N Bridgewater Dr	S Bridgewater Dr	2	Arterial M	4,680	0.26	А	4	Arterial M	14,270	0.40	А	NewBridge
19.3	Eagles Nest Rd	S Bridgewater Dr	Jackson Rd	2	Arterial M	4,760	0.26	А	4	Arterial M	15,420	0.43	А	NewBridge
20	Eagles Nest Rd	Jackson Rd	Florin Rd	2	Arterial M	3,620	0.20	А	2	Arterial M	9790	0.54	А	
21	Eagles Nest Rd	Florin Rd	Grant Line Rd	2	Arterial M	3,270	0.18	А	2	Arterial M	5230	0.29	А	
22	Elder Creek Rd	65th St	Power Inn Rd	4	Arterial M	24,110	0.67	В	4	Arterial M	28,230	0.78	C	
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd	2	Arterial M	25,310	1.41	F	2	Arterial M	28,710	1.60	F	
24	Elder Creek Rd	Florin Perkins Rd	South Watt Ave	4	Arterial M	28,080	0.78	С	4	Arterial M	31,550	0.88	D	



		Segi	ment		CEQA	Cumulative N	o Project			<b>CEQA Cumu</b>	lative + FOU	R PROJECT	S	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
25	Elder Creek Rd	South Watt Ave	Hedge Ave	4	Arterial M	40,970	1.14	F	4	Arterial M	54,480	1.51	F	
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	4	Arterial M	30,110	0.84	D	4	Arterial M	43,210	1.20	F	
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	4	Arterial M	17,880	0.50	А	4	Arterial M	25,620	0.71	С	
28.1	Elder Creek Rd	Bradshaw Rd	Vineyard Rd	2	Arterial M	9,260	0.51	А	3	Arterial M	31,620	1.76	F	West Jackson
28.2	Elder Creek Rd	Vineyard Rd	Excelsior Rd	2	Arterial M	9,450	0.53	А	4	Arterial M	28,590	0.79	С	West Jackson
29	Elk Grove-Florin Rd	Florin Rd	Gerber Rd	6	Arterial M	48,360	0.90	D	6	Arterial M	46,840	0.87	D	
30.1	Excelsior Rd	Kiefer Blvd	Douglas Rd	2	Arterial M	7,500	0.42	А	2	Arterial M	12,160	0.68	В	
30.2	Excelsior Rd	Douglas Rd	Collector WJ-1/ Collector JT-1	4	Arterial M	10,890	0.30	А	4	Arterial M	30,400	0.84	D	
30.3	Excelsior Rd	Collector WJ-1/ Collector JT-1	Collector WJ-2/ Collector JT-2	4	Arterial M	11,480	0.32	А	4	Arterial M	29,620	0.82	D	
30.4	Excelsior Rd	Collector WJ-2/ Collector JT-2	Jackson Rd	4	Arterial M	11,480	0.32	А	4	Arterial M	29,840	0.83	D	
31.1	Excelsior Rd	Jackson Rd	Collector WJ-6	2	Arterial M	11,630	0.65	В	3	Arterial M	41,580	2.31	F	West Jackson
31.2	Excelsior Rd	Collector WJ-6	Elder Creek Rd	2	Arterial M	11,630	0.65	В	3	Arterial M	41,380	2.30	F	West Jackson
32	Excelsior Rd	Elder Creek Rd	Florin Rd	2	Arterial M	4,670	0.26	А	3	Arterial M	12,900	0.72	С	West Jackson
33	Excelsior Rd	Florin Rd	Gerber Rd	2	Arterial M	5,960	0.33	А	2	Arterial M	14,300	0.79	С	
34	Excelsior Rd	Gerber Rd	Calvine Rd	2	Arterial M	2,560	0.14	А	2	Arterial M	9,110	0.51	А	
35	Excelsior Rd	Calvine Rd	Sheldon Rd	2	Arterial M	3,130	0.17	А	2	Arterial M	10,290	0.57	А	
36	Florin Rd	Stockton Blvd	Power Inn Rd	6	Arterial M	42,730	0.79	С	6	Arterial M	48,790	0.90	Е	
37	Florin Rd	Power Inn Rd	Florin-Perkins Rd	4	Arterial M	37,000	1.03	F	4	Arterial M	44,830	1.25	F	
38	Florin Rd	Florin-Perkins Rd	So Watt Ave/ Elk Grove Florin Rd	6	Arterial M	29,920	0.55	А	6	Arterial M	37,850	0.70	С	
39	Florin Rd	South Watt Ave	Hedge Ave	4	Arterial M	9,840	0.27	А	4	Arterial M	13,280	0.37	А	
40	Florin Rd	Hedge Ave	Mayhew Rd	4	Arterial M	10,470	0.29	А	4	Arterial M	14,700	0.41	А	
41	Florin Rd	Mayhew Rd	Bradshaw Rd	4	Arterial M	30,370	0.84	D	4	Arterial M	43,130	1.20	F	
42.1	Florin Rd	Bradshaw Rd	Vineyard Rd	4	Arterial M	19,600	0.54	А	4	Arterial M	29,540	0.82	D	
42.2	Florin Rd	Vineyard Rd	Excelsior Rd	2	Arterial M	11,450	0.64	В	3	Arterial M	28,090	1.56	F	West Jackson
43	Florin Rd	Excelsior Rd	Sunrise Blvd	2	Arterial M	14,130	0.79	С	2	Arterial M	18,580	1.03	F	
44	Folsom Blvd	Howe Ave	Jackson Rd	4	Arterial M	50,710	1.41	F	4	Arterial M	56,760	1.58	F	



		Seg	ment		CEQA	Cumulative N	o Project			<b>CEQA Cum</b>	lative + FOU	R PROJECT	S	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
45	Fruitridge Rd	65th St	Power Inn Rd	4	Arterial M	23,020	0.64	В	4	Arterial M	28,430	0.79	С	
46	Fruitridge Rd	Power Inn Rd	Florin Perkins Rd	4	Arterial M	20,330	0.56	А	4	Arterial M	32,850	0.91	Е	
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	13,930	0.77	С	2	Arterial M	29,480	1.64	F	
48	Fruitridge Rd	South Watt Ave	Hedge Ave	2	Arterial M	5,880	0.33	А	3	Arterial M	24,970	1.39	F	West Jackson
49.1	Fruitridge Rd	Hedge Ave	Collector WJ-12	2	Arterial M	2,270	0.13	А	4	Arterial M	26,870	0.75	С	West Jackson
49.2	Fruitridge Rd	Collector WJ-12	Mayhew Rd	2	Arterial M	2,250	0.13	А	4	Arterial M	27,150	0.75	С	West Jackson
50	Grant Line Rd	White Rock Rd	Douglas Rd	4	Arterial M	39,520	1.10	F	4	Arterial M	40,500	1.13	F	
51.1	Grant Line Rd	Douglas Rd	Chrysanthy Blvd	4	Arterial M	58,550	1.63	F	4	Arterial M	57,040	1.58	F	
51.2	Grant Line Rd	Chrysanthy Blvd	Kiefer Blvd	4	Arterial M	45,070	1.25	F	4	Arterial M	47,600	1.32	F	
52.1	Grant Line Rd	Kiefer Blvd	Rancho Cordova Pkwy	4	Arterial M	34,280	0.95	Е	4	Arterial M	37,390	1.04	F	
52.2	Grant Line Rd	Rancho Cordova Pkwy	Jackson Rd	4	Arterial M	43,750	1.22	F	4	Arterial M	41,910	1.16	F	1
53	Grant Line Rd	Jackson Rd	Sunrise Blvd	4	Arterial M	33,280	0.92	Е	4	Arterial M	29,670	0.82	D	
54	Grant Line Rd	Sunrise Blvd	Calvine Rd	4	Arterial M	42,850	1.19	F	4	Arterial M	43,840	1.22	F	
55	Grant Line Rd	Calvine Rd	Sheldon Rd	4	Arterial M	36,450	1.01	F	4	Arterial M	36,830	1.02	F	
56	Grant Line Rd	Sheldon Rd	Wilton Rd	4	Arterial M	40,680	1.13	F	4	Arterial M	46,230	1.28	F	
57	Grant Line Rd	Wilton Rd	Bond Rd	4	Arterial M	36,130	1.00	F	4	Arterial M	40,920	1.14	F	
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	2	Arterial M	4,110	0.23	А	4	Arterial M	51,220	1.42	F	West Jackson
59.1	Hedge Ave	Jackson Rd	Rock Creek Pkwy	2	Arterial M	7,240	0.40	А	2	Arterial M	11,810	0.66	В	
59.2	Hedge Ave	Rock Creek Pkwy	Fruitridge Rd	2	Arterial M	7,360	0.41	А	2	Arterial M	8,590	0.48	А	
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	2	Arterial M	8,520	0.47	А	2	Arterial M	9,680	0.54	А	
61	Hedge Ave	Elder Creek Rd	Florin Rd	2	Arterial M	22,680	1.26	F	2	Arterial M	22,180	1.23	F	
62	Howe Ave	US 50	Folsom Blvd	6	Arterial M	67,100	1.24	F	6	Arterial M	72,510	1.34	F	
63	International Dr	Mather Field Rd	Zinfandel Dr	6	Arterial M	48,300	0.89	D	6	Arterial M	47,490	0.88	D	
64	International Dr	Zinfandel Dr	Sunrise Blvd	6	Arterial M	35,780	0.66	В	6	Arterial M	41,510	0.77	С	
65	Jackson Rd	Folsom Blvd	Florin Perkins Rd	4	Arterial M	30,560	0.85	D	4	Arterial M	36,540	1.02	F	
66.1	Jackson Rd	Florin Perkins Rd	14th Ave	4	Arterial M	31,230	0.87	D	4	Arterial M	45,880	1.27	F	
66.2	Jackson Rd	14th Ave	Rock Creek Pkwy	4	Arterial M	40,490	1.12	F	4	Arterial M	64,740	1.80	F	
66.3	Jackson Rd	Rock Creek Pkwy	Aspen 1 Dwy	4	Arterial M	34,850	0.97	Е	4	Arterial M	61,240	1.70	F	



		Seg	ment		CEQA	Cumulative N	o Project			<b>CEQA Cum</b>	ulative + FOU	R PROJECT	ſS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
66.4	Jackson Rd	Aspen 1 Dwy	South Watt Ave	4	Arterial M	32,550	0.90	Е	4	Arterial M	58,860	1.64	F	
67	Jackson Rd	South Watt Ave	Hedge Ave	4	Arterial M	38,450	1.07	F	4	Arterial M	69,380	1.93	F	
68.1	Jackson Rd	Hedge Ave	Collector WJ-3	4	Arterial M	31,030	0.86	D	4	Arterial M	62,190	1.73	F	
68.2	Jackson Rd	Collector WJ-3	Mayhew Rd	4	Arterial M	30,930	0.86	D	4	Arterial M	62,890	1.75	F	
69	Jackson Rd	Mayhew Rd	Bradshaw Rd	4	Arterial M	33,880	0.94	Е	6	Arterial M	63,070	1.17	F	West Jackson
70.1	Jackson Rd	Bradshaw Rd	Collector WJ-4	2	Rural Hwy	23,080	1.01	F	6	Arterial M	60,480	1.12	F	West Jackson
70.2	Jackson Rd	Collector WJ-4	Happy Ln	2	Rural Hwy	23,160	1.01	F	6	Arterial M	57,380	1.06	F	West Jackson
70.3	Jackson Rd	Happy Ln	Rock Creek Pkwy	2	Rural Hwy	23,010	1.00	F	6	Arterial M	50,740	0.94	Е	West Jackson
70.4	Jackson Rd	Rock Creek Pkwy	Collector WJ-5	2	Rural Hwy	23,010	1.00	F	6	Arterial M	52,830	0.98	Е	West Jackson
70.5	Jackson Rd	Collector WJ-5	Collector WJ-6	2	Rural Hwy	23,030	1.01	F	6	Arterial M	43,720	0.81	D	West Jackson
70.6	Jackson Rd	Collector WJ-6	Excelsior Rd	2	Rural Hwy	23,030	1.01	F	6	Arterial M	43,760	0.81	D	West Jackson
71.1	Jackson Rd	Excelsior Rd	Collector JT-3	2	Rural Hwy	23,230	1.01	F	4	Arterial M	62,780	1.74	F	Jackson Township
71.2	Jackson Rd	Collector JT-3	Tree View Ln	2	Rural Hwy	23,250	1.02	F	4	Arterial M	48,960	1.36	F	Jackson Township
71.3	Jackson Rd	Tree View Ln	Collector JT-4	2	Rural Hwy	23,210	1.01	F	4	Arterial M	42,560	1.18	F	Jackson Township
71.4	Jackson Rd	Collector JT-4	Eagles Nest Rd	2	Rural Hwy	23,230	1.01	F	4	Arterial M	39,060	1.09	F	Jackson Township
72.1	Jackson Rd	Eagles Nest Rd	Rockbridge Dr	2	Rural Hwy	21,990	0.96	Е	4	Arterial M	39,660	1.10	F	NewBridge
72.2	Jackson Rd	Rockbridge Dr	Sunrise Blvd	2	Rural Hwy	22,730	0.99	Е	4	Arterial M	39,710	1.10	F	NewBridge
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	4	Arterial M	31,990	0.89	D	4	Arterial M	46,130	1.28	F	
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	2	Arterial M	3,340	0.19	А	2	Arterial M	5,630	0.31	А	
75	Kiefer Blvd	South Watt Ave	Mayhew Rd	4	Arterial M	21,590	0.60	А	4	Arterial M	34,100	0.95	Е	
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd	4	Arterial M	13,420	0.37	А	4	Arterial M	47,090	1.31	F	
77.1	Kiefer Blvd	Bradshaw Rd	Collector WJ-14	2	Arterial M	5,950	0.33	А	6	Arterial M	56,300	1.04	F	West Jackson
77.2	Kiefer Blvd	Collector WJ-14	Happy Ln	2	Arterial M	5,020	0.28	А	6	Arterial M	47,880	0.89	D	West Jackson
78.1	Kiefer Blvd	Eagles Nest Rd	W Collector MS-1	2	Arterial M	10,170	0.57	А	4	Arterial M	32,550	0.90	Е	NewBridge; Mather South
78.2	Kiefer Blvd	W Collector MS-1	Northbridge Dr	2	Arterial M	10,170	0.57	А	4	Arterial M	26,230	0.73	C	NewBridge; Mather South
78.3	Kiefer Blvd	Northbridge Dr	E Collector MS-1	2	Arterial M	10,170	0.57	A	4	Arterial M	27,040	0.75	C	NewBridge; Mather South
78.4	Kiefer Blvd	E Collector MS-1	Sunrise Blvd	2	Arterial M	10,120	0.56	Α	3	Arterial M	37,390	2.08	F	NewBridge
79	Kiefer Blvd	Sunrise Blvd	Rancho Cordova Pkwy	4	Arterial M	20,550	0.57	A	4	Arterial M	33,880	0.94	E	



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ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
80	Mather Blvd / Norden Ave	Von Karman St	Bleckely St	4	Arterial M	14,490	0.40	А	4	Arterial M	13,660	0.38	А	
81	Mather Blvd	Bleckely St	Femoyer St	4	Arterial M	14,490	0.40	А	4	Arterial M	13,660	0.38	А	
82	Mather Blvd	Femoyer St	Douglas Rd	2	Arterial M	14,560	0.81	D	2	Arterial M	13,780	0.77	С	
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd	2	Res Collector F	10,400	1.30	F	2	Res Collector F	15,750	1.97	F	
84	Mather Field Rd	US 50	Rockingham Dr	6	Arterial M	65,380	1.21	F	6	Arterial M	63,340	1.17	F	
85	Mather Field Rd	Rockingham Dr	International Dr	6	Arterial M	71,670	1.33	F	6	Arterial M	72,360	1.34	F	
86	Mather Field Rd	International Dr	Peter A McCuen Blvd	6	Arterial M	15,890	0.29	А	6	Arterial M	16,140	0.30	А	
87	Mayhew Rd	Folsom Blvd	Goethe Rd	2	Arterial M	7,270	0.40	А	2	Arterial M	15,600	0.87	D	
88	Mayhew Rd	Goethe Rd	Kiefer Blvd	2	Arterial M	10,720	0.60	А	2	Arterial M	13,910	0.77	С	
89.1	Mayhew Rd	Jackson Rd	Rock Creek Pkwy	2	Arterial L	2,070	0.14	А	4	Arterial M	52,530	1.46	F	West Jackson
89.2	Mayhew Rd	Rock Creek Pkwy	Fruitridge Rd	2	Arterial L	2,070	0.14	А	4	Arterial M	51,240	1.42	F	West Jackson
90	Old Placerville Rd	Bradshaw Rd	Granby Dr	4	Arterial M	29,940	0.83	D	4	Arterial M	26,590	0.74	С	
91	Old Placerville Rd	Granby Dr	Happy Ln	2	Arterial M	26,640	1.48	F	2	Arterial M	24,810	1.38	F	
92	Old Placerville Rd	Happy Ln	Routier Rd	2	Arterial M	22,800	1.27	F	2	Arterial M	53,710	2.98	F	
93	Old Placerville Rd	Routier Rd	Rockingham Dr	4	Arterial M	24,320	0.68	В	4	Arterial M	34,690	0.96	E	
94	Power Inn Rd	Folsom Blvd	14th Ave	6	Arterial M	43,300	0.80	D	6	Arterial M	47,750	0.88	D	
95	Rockingham Dr	Old Placerville Rd	Mather Field Rd	4	Arterial M	31,910	0.89	D	4	Arterial M	38,480	1.07	F	
96	South Watt Ave	Folsom Blvd	Kiefer Blvd	6	Arterial M	69,300	1.28	F	6	Arterial M	84,250	1.56	F	
97	South Watt Ave	Kiefer Blvd	Jackson Rd	6	Arterial M	67,640	1.25	F	6	Arterial M	71,600	1.33	F	
98.1	South Watt Ave	Jackson Rd	Rock Creek Pkwy	6	Arterial M	61,230	1.13	F	6	Arterial M	61,350	1.14	F	
98.2	South Watt Ave	Rock Creek Pkwy	Fruitridge Rd	6	Arterial M	64,370	1.19	F	6	Arterial M	62,690	1.16	F	
99	South Watt Ave	Fruitridge Rd	Elder Creek Rd	6	Arterial M	61,380	1.14	F	6	Arterial M	58,250	1.08	F	
100	South Watt Ave	Elder Creek Rd	Florin Rd	6	Arterial M	55,240	1.02	F	6	Arterial M	59,790	1.11	F	
101	Sunrise Blvd	US 50	Folsom Blvd	7	Arterial M	64,480	1.19	F	7	Arterial M	61,860	1.15	F	
102	Sunrise Blvd	Folsom Blvd	Trade Center Dr	6	Arterial M	61,120	1.13	F	6	Arterial M	59,050	1.09	F	
103	Sunrise Blvd	Trade Center Dr	White Rock Rd	6	Arterial M	38,420	0.71	С	6	Arterial M	36,750	0.68	В	
104.1	Sunrise Blvd	White Rock Rd	International Dr	6	Arterial M	49,390	0.91	E	6	Arterial M	48,490	0.90	D	
104.2	Sunrise Blvd	International Dr	Rio Del Oro Pkwy	6	Arterial M	54,460	1.01	F	6	Arterial M	54,560	1.01	F	
104.3	Sunrise Blvd	Rio Del Oro Pkwy	Douglas Rd	6	Arterial M	54,050	1.00	F	6	Arterial M	65,850	1.22	F	
105	Sunrise Blvd	Douglas Rd	Kiefer Blvd	5	Arterial M	34,810	0.97	E	5	Arterial M	37,890	1.05	F	
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd	4	Arterial M	30,020	0.83	D	4	Arterial M	33,310	0.93	E	



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107	Sunrise Blvd	Jackson Rd	Florin Rd	4	Arterial M	28,360	0.79	С	4	Arterial M	31,600	0.88	D	
108	Sunrise Blvd	Florin Rd	Grant Line Rd	4	Arterial M	14,980	0.42	А	4	Arterial M	18,080	0.50	А	
109	Vineyard Rd	Gerber Rd	Calvine Rd	2	Arterial M	8,060	0.45	А	2	Arterial M	12,470	0.69	В	
110	Watt Ave	US 50	Folsom Blvd	6	Arterial H	98,100	1.64	F	6	Arterial H	108,540	1.81	F	
111	White Rock Rd	International Rd	Quality Dr	2	Arterial M	5,420	0.30	А	2	Arterial M	5,450	0.30	А	
112	White Rock Rd	Quality Dr	Zinfandel Dr	4	Arterial M	18,180	0.51	А	4	Arterial M	17,860	0.50	А	
113	White Rock Rd	Zinfandel Dr	Kilgore Rd	6	Arterial M	31,720	0.59	А	6	Arterial M	31,340	0.58	А	
114	White Rock Rd	Kilgore Rd	Sunrise Blvd	5	Arterial M	40,230	1.12	F	5	Arterial M	39,340	1.09	F	
115	White Rock Rd	Sunrise Blvd	Fitzgerald Rd	4	Arterial M	34,000	0.94	Е	4	Arterial M	34,260	0.95	Е	
116.1	White Rock Rd	Fitzgerald Rd	Rancho Cordova Pkwy	4	Arterial M	56,150	1.56	F	4	Arterial M	54,910	1.53	F	
116.2	White Rock Rd	Rancho Cordova Pkwy	Americanos Blvd	4	Arterial M	22,070	0.61	В	4	Arterial M	20,920	0.58	А	
116.3	White Rock Rd	Americanos Blvd	Grant Line Rd	4	Arterial M	15,780	0.44	А	4	Arterial M	17,180	0.48	А	
117	White Rock Rd	Grant Line Rd	Prairie City Rd	4	Arterial M	53,790	1.49	F	4	Arterial M	55,730	1.55	F	
118	Zinfandel Dr	US 50	White Rock Rd	7	Arterial M	82,720	1.53	F	7	Arterial M	82,400	1.53	F	
119	Zinfandel Dr	White Rock Rd	International Rd	6	Arterial M	41,490	0.77	С	6	Arterial M	43,750	0.81	D	
120	Zinfandel Dr	International Rd	Baroque Dr	6	Arterial M	32,810	0.61	В	6	Arterial M	33,990	0.63	В	
121	Zinfandel Dr	Baroque Dr	City Limit	4	Arterial M	32,810	0.91	Е	4	Arterial M	33,990	0.94	Е	
122	Zinfandel Dr	City Limit	Douglas Rd	2	Arterial M	32,810	1.82	F	2	Arterial M	33,990	1.89	F	
123.1	Zinfandel Dr	Douglas Rd	Collector MS-2	4	Arterial M	15,160	0.42	А	4	Arterial M	31,690	0.88	D	
123.2	Zinfandel Dr	Collector MS-2	Collector MS-3	4	Arterial M	12,370	0.34	А	4	Arterial M	26,460	0.74	С	
123.3	Zinfandel Dr	Collector MS-3	Collector MS-4	4	Arterial M	12,370	0.34	А	4	Arterial M	23,420	0.65	В	
123.4	Zinfandel Dr	Collector MS-4	Kiefer Blvd	4	Arterial M	12,370	0.34	А	4	Arterial M	24,910	0.69	В	
124	14th Ave	Power Inn Rd	Florin Perkins Rd	4	Arterial M	15,990	0.44	А	4	Arterial M	28,970	0.80	D	
125	14th Ave	Florin Perkins Rd	Jackson Rd	4	Arterial M	9,290	0.26	А	4	Arterial M	18,880	0.52	А	
126	Chrysanthy Blvd	Rancho Cordova Pkwy	Americanos Blvd	4	Arterial M	21,980	0.61	В	4	Arterial M	21,520	0.60	А	
127	Chrysanthy Blvd	Americanos Blvd	Grant Line Rd	2	Arterial M	16,580	0.92	Е	2	Arterial M	15,490	0.86	D	
128	Douglas Rd (Extension)	Mather Blvd	Kiefer Blvd	4	Arterial M	3,580	0.10	А	4	Arterial M	18,650	0.52	А	
129	International Dr	Sunrise Blvd	Rancho Cordova Pkwy	6	Arterial M	31,190	0.58	А	6	Arterial M	32,150	0.60	А	
130	International Dr	Rancho Cordova Pkwy	Americanos Blvd	6	Arterial M	19,510	0.36	А	6	Arterial M	18,160	0.34	А	
131	Kiefer Blvd	Rancho Cordova Pkwy	Americanos Blvd	2	Arterial M	3,730	0.21	А	2	Arterial M	9,130	0.51	А	
132	Kiefer Blvd	Americanos Blvd	Grant Line Rd	2	Arterial M	10,160	0.56	А	2	Arterial M	18,810	1.05	F	
133	Rancho Cordova Pkwy	US 50	Easton Valley Pkwy	6	Arterial M	70,300	1.30	F	6	Arterial M	69,460	1.29	F	
134	Rancho Cordova Pkwy	Easton Valley Pkwy	White Rock Rd	6	Arterial M	72,290	1.34	F	6	Arterial M	72,010	1.33	F	



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135	Rancho Cordova Pkwy	White Rock Rd	International Dr	6	Arterial M	46,430	0.86	D	6	Arterial M	49,470	0.92	E	
136	Rancho Cordova Pkwy	International Dr	Rio Del Oro Pkwy	6	Arterial M	55,350	1.03	F	6	Arterial M	60,440	1.12	F	
137	Rancho Cordova Pkwy	Rio Del Oro Pkwy	Villagio Dr	4	Arterial M	38,030	1.06	F	4	Arterial M	38,290	1.06	F	
138	Rancho Cordova Pkwy	Villagio Dr	Douglas Rd	4	Arterial M	32,140	0.89	D	4	Arterial M	32,370	0.90	D	
139	Rancho Cordova Pkwy	Douglas Rd	Chrysanthy Blvd	4	Arterial M	34,150	0.95	Е	4	Arterial M	31,250	0.87	D	
140	Rancho Cordova Pkwy	Chrysanthy Blvd	Kiefer Blvd	4	Arterial M	20,840	0.58	А	4	Arterial M	18,610	0.52	А	
141	Rancho Cordova Pkwy	Kiefer Blvd	Grant Line Rd	2	Arterial M	15,470	0.86	D	2	Arterial M	14,130	0.79	С	
142	Americanos Blvd	White Rock Rd	Douglas Rd	2	Arterial M	5,600	0.31	А	2	Arterial M	6,290	0.35	А	
143	Americanos Blvd	Douglas Rd	Chrysanthy Blvd	2	Arterial M	9,600	0.53	А	2	Arterial M	8,800	0.49	А	
144	Americanos Blvd	Chrysanthy Blvd	Kiefer Blvd	2	Arterial M	8,990	0.50	А	2	Arterial M	7,830	0.44	А	
145	Vineyard Rd	Florin Rd	Gerber Rd	4	Arterial M	1,560	0.04	А	4	Arterial M	12,670	0.35	А	
146	Rio Del Oro Pkwy	Sunrise Blvd	Rancho Cordova Pkwy	6	Arterial M	23,880	0.44	А	6	Arterial M	32,340	0.60	А	
147	Rio Del Oro Pkwy	Rancho Cordova Pkwy	White Rock Rd	2	Arterial M	8,040	0.45	А	2	Arterial M	8,690	0.48	А	
200	Kiefer Blvd	Tree View Ln	Eagles Nest Rd						4	Arterial M	41,540	1.15	F	West Jackson; Jackson Township; NewBridge; Mather South
300	Douglas Rd	Excelsior Rd	Rock Creek Pkwy	4	Arterial M	3,580	0.10	А	4	Arterial M	23,060	0.64	В	
301	Douglas Rd	Rock Creek Pkwy	Kiefer Blvd	4	Arterial M	3,580	0.10	А	4	Arterial M	30,630	0.85	D	
302	Happy Ln	Kiefer Blvd	Mayhew Rd						4	Arterial M	43,730	1.21	F	West Jackson
303	Happy Ln	Mayhew Rd	Jackson Rd						4	Arterial M	30,680	0.85	D	West Jackson
304	Happy Ln	Jackson Rd	Rock Creek Pkwy						4	Arterial M	34,670	0.96	Е	West Jackson
305	Kiefer Blvd	Happy Ln	Collector WJ-15						6	Arterial M	66,970	1.24	F	West Jackson
306	Kiefer Blvd	Collector WJ-15	Douglas Rd						6	Arterial M	63,570	1.18	F	West Jackson
307	Kiefer Blvd	Douglas Rd	Excelsior Rd						4	Arterial M	35,470	0.99	Е	West Jackson
308	Mayhew Rd	Happy Ln	Bradshaw Rd						4	Arterial M	40,390	1.12	F	West Jackson
309	Mayhew Rd	Bradshaw Rd	Jackson Rd						4	Arterial M	46,460	1.29	F	West Jackson
310	Mayhew Rd	Fruitridge Rd	Collector WJ-13						4	Arterial M	29,410	0.82	D	West Jackson
311	Mayhew Rd	Collector WJ-13	Elder Creek Rd						3	Arterial M	28,570	1.59	F	West Jackson
312	Rock Creek Pkwy	South Watt Ave	Hedge Ave						2	Arterial M	10,000	0.56	А	West Jackson
313	Rock Creek Pkwy	Hedge Ave	Mayhew Rd						2	Arterial M	11,880	0.66	В	West Jackson
314	Rock Creek Pkwy	Mayhew Rd	Bradshaw Rd						2	Arterial M	10,980	0.61	В	West Jackson
315	Rock Creek Pkwy	Bradshaw Rd	Collector WJ-7						2	Arterial M	11,920	0.66	В	West Jackson



		Seg	ment		CEQA	Cumulative N	o Project			CEQA Cumu	lative + FOU	R PROJECT	S	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
316	Rock Creek Pkwy	Collector WJ-7	Happy Ln/ Vineyard Rd						2	Arterial M	12,410	0.69	В	West Jackson
317	Rock Creek Pkwy	Happy Ln/ Vineyard Rd	Jackson Rd						2	Arterial M	15,150	0.84	D	West Jackson
318	Rock Creek Pkwy	Jackson Rd	Excelsior Rd						2	Arterial M	13,520	0.75	С	West Jackson
319	Vineyard Rd	Rock Creek Pkwy	Elder Creek Rd						4	Arterial M	39,590	1.10	F	West Jackson
320	Vineyard Rd	Elder Creek Rd	Florin Rd						4	Arterial M	20,790	0.58	А	West Jackson
321	Collector WJ-16	Rock Creek Pkwy	Collector WJ-6						2	Res Collector F	620	0.08	А	West Jackson
322	Collector WJ-17	Rock Creek Pkwy	Collector WJ-6						2	Res Collector F	1,160	0.15	А	West Jackson
323	Collector WJ-6	Collector WJ-16/WJ-17	Jackson Rd						2	Res Collector F	3,780	0.47	С	West Jackson
324	Collector WJ-6	Jackson Rd	Excelsior Rd						2	Res Collector F	3,770	0.47	С	West Jackson
325	Collector WJ-2	Excelsior Rd	Collector WJ-6						2	Arterial M	4,410	0.25	А	West Jackson
326	Collector WJ-18	Vineyard Rd	Collector WJ-19/ WJ-20						2	Arterial M	4,130	0.23	А	West Jackson
327	Collector WJ-19	Collector WJ-18	Collector WJ-21						2	Arterial M	1,430	0.08	А	West Jackson
328	Collector WJ-20	Collector WJ-18	Collector WJ-21						2	Res Collector F	3,310	0.41	С	West Jackson
329	Collector WJ-21	Collector WJ-19/ WJ-20	Collector WJ-6						2	Res Collector F	2,800	0.35	В	West Jackson
400	Collector JT-1	Excelsior Rd	Collector JT-3						2	Res Collector F	4,430	0.55	С	Jackson Township
401	Collector JT-1	Collector JT-3	Tree View Ln						2	Res Collector F	1,850	0.23	В	Jackson Township
402	Collector JT-3	Kiefer Blvd	Collector JT-1						2	Res Collector F	2,630	0.33	В	Jackson Township
403	Collector JT-3	Collector JT-1	Collector JT-6						2	Res Collector F	2,480	0.31	В	Jackson Township
404	Collector JT-3	Collector JT-6	Collector JT-5						2	Res Collector F	3,400	0.43	С	Jackson Township
405	Collector JT-3	Collector JT-5	Jackson Rd						2	Res Collector F	18,370	2.30	F	Jackson Township
406	Collector JT-4	Jackson Rd	Bridgewater Dr						2	Arterial M	3,760	0.21	А	Jackson Township
407	Collector JT-5	Collector JT-3	Tree View Ln						2	Arterial M	9,070	0.50	А	Jackson Township



		Segr	ment		CEQA	Cumulative N	o Project			CEQA Cumu	ulative + FOU	R PROJECT	ſS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
408	Collector JT-6	Excelsior Rd	Collector JT-3						2	Res Collector F	4,370	0.55	C	Jackson Township
409	Collector JT-6	Collector JT-3	Tree View Ln						2	Res Collector F	960	0.12	А	Jackson Township
410	Kiefer Blvd	Excelsior Rd	Tree View Ln						4	Arterial M	38,470	1.07	F	Jackson Township
411	Tree View Ln	Kiefer Blvd	Collector JT-1						4	Arterial M	11,620	0.32	А	Jackson Township
412	Tree View Ln	Collector JT-1	Collector JT-6						4	Arterial M	11,590	0.32	А	Jackson Township
413	Tree View Ln	Collector JT-6	Collector JT-5						4	Arterial M	11,350	0.32	А	Jackson Township
414	Tree View Ln	Collector JT-5	Jackson Rd						4	Arterial M	7,680	0.21	А	Jackson Township
415	Collector JT-7	Collector JT-3	Tree View Ln						2	Arterial M	1,650	0.09	А	Jackson Township
416	Collector JT-8	Collector JT-3	Tree View Ln						2	Arterial M	1,880	0.10	А	Jackson Township
417	Collector JT-9	Jackson Rd	Collector JT-8						2	Arterial M	4,320	0.24	А	Jackson Township
418	Collector JT-10	Jackson Rd	Collector JT-8						2	Arterial M	1,570	0.09	А	Jackson Township
419	Collector JT-6	Tree View Ln	Jackson Rd						2	Res Collector F	1,490	0.19	А	Jackson Township
500	S Bridgewater Dr	Collector JT-4	Eagles Nest Rd						2	Res Collector F	4,820	0.60	D	NewBridge
501	S Bridgewater Dr	Eagles Nest Rd	Northbridge Dr						2	Res Collector F	4,480	0.56	С	NewBridge
502	N Bridgewater Dr	Northbridge Dr	Eagles Nest Rd						2	Res Collector F	1,170	0.15	А	NewBridge
503	Northbridge Dr	Kiefer Blvd	Bridgewater Dr						2	Arterial M	3,480	0.19	А	NewBridge
504	Street A	S Bridgewater Dr	Street B						2	Res Collector F	1,690	0.21	В	NewBridge
505	Street B	S Bridgewater Dr	Street A						2	Res Collector F	1,320	0.17	А	NewBridge
506	Rockbridge Dr	Street B	Stonebridge Dr						2	Res Collector F	1,690	0.21	В	NewBridge
507	Rockbridge Dr	Stonebridge Dr	Jackson Rd						2	Arterial M	6,600	0.37	А	NewBridge
508	Stonebridge Dr	S Bridgewater Dr	Rockbridge Dr						2	Arterial M	2,660	0.15	А	NewBridge
509	Stonebridge Dr	Rockbridge Dr	Jackson Rd						2	Res Collector F	3,830	0.48	С	NewBridge
600	W Collector MS-1	Kiefer Blvd	Collector MS-5						2	Arterial M	6,040	0.34	А	Mather South
601	E Collector MS-1	Collector MS-5	Kiefer Blvd						2	Arterial M	11,720	0.65	В	Mather South



		Segr	ment		CEQA	Cumulative N	o Project			<b>CEQA Cum</b>	lative + FOU	R PROJECT	ſS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
602	Collector MS-2	Eagles Nest Rd	Collector MS-5						2	Res Collector F	9,980	1.25	F	Mather South
603	Collector MS-3	Eagles Nest Rd	Collector MS-5						2	Arterial M	6,730	0.37	А	Mather South
604	Collector MS-4	Eagles Nest Rd	Collector MS-5						2	Arterial M	12,560	0.70	В	Mather South
605	Collector MS-5	Collector MS-1	Collector MS-4						2	Arterial M	17,760	0.99	Е	Mather South
606	Collector MS-5	Collector MS-4	Collector MS-3						2	Arterial M	4,870	0.27	А	Mather South
607	Collector MS-5	Collector MS-3	Collector MS-2						2	Arterial M	1,590	0.09	А	Mather South

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage



CEQA Cumulative Plus FOUR PROJECTS Intersection Levels of Ser	rvice													
				AM Peak Hour							PM Peak Hour			
Intersection	CEQ/ No FOI	A Cumulati JR PROJE	ve CTS	CEQA Cum Pl	ulative Plu ROJECTS	IS FOUR		CEQ/ No FOI	A Cumulati UR PROJE	ive CTS	CEQA Cum Pf	ulative Plu ROJECTS	s FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
1 Howe Avenue & College Town Drive/US 50 WB Ramps	Signal	D	42.0	Signal	С	34.3	No	Signal	Е	55.6	Signal	Е	60.8	No
2 Howe Avenue & US 50 EB Ramps	Signal	С	32.4	Signal	D	52.5	No	Signal	В	17.8	Signal	С	21.5	No
3 Power Inn Road/Howe Avenue & Folsom Blvd	Signal	F	82.4	Signal	F	103.3	Yes	Signal	E	67.2	Signal	F	91.6	Yes
4 Power Inn Road & 14th Avenue	Signal	E	75.1	Signal	F	227.8	Yes	Signal	F	86.5	Signal	F	149.2	Yes
5 Power Inn Road & Fruitridge Road	Signal	F	116.2	Signal	F	118.6	No	Signal	D	50.4	Signal	E	60.8	Yes
6 Jackson Road/Notre Dame Dr. & Folsom Blvd.	Signal	D	41.2	Signal	D	45.9	No	Signal	E	55.1	Signal	Е	75.3	No
7 Florin Perkins Road/Julliard Dr. & Folsom Boulevard	Signal	D	35.2	Signal	Е	60.1	No	Signal	D	40.7	Signal	D	42.3	No
8 Florin Perkins Road & Kiefer Blvd.	Two-way stop	А	2.0	Two-way stop	А	3.4	No	Two-way stop	А	2.7	Two-way stop	A	5.2	No
Westbound Left Turn		С	17.1		D	25.9			С	20.0		Е	37.8	
Westbound Right Turn		В	11.8		В	14.5			В	11.1		С	15.0	ļ
Southbound Left Turn		A	9.5		В	10.9			В	10.2		В	13.4	
9 Florin Perkins Road & Jackson Road	Signal	D	50.3	Signal	E	66.6	No	Signal	D	49.0	Signal	E	59.3	No
10 Florin Perkins Road & Fruitridge Road	Signal	Е	58.8	Signal	Е	57.8	No	Signal	D	54.5	Signal	D	49.9	No
11 Florin Perkins Road & Elder Creek Road	Signal	D	35.7	Signal	С	33.3	No	Signal	D	38.6	Signal	D	42.2	No
12 Watt Avenue & Folsom Blvd.	Signal	F	174.1	Signal	F	196.0	Yes	Signal	F	139.4	Signal	F	217.7	Yes
13 S. Watt Ave. & Reith Ct/Manlove Road	Signal	D	37.8	Signal	D	35.5	No	Signal	С	20.2	Signal	С	32.2	No
14 S. Watt Avenue & Kiefer Blvd.	Signal	F	82.7	Signal	F	118.0	Yes	Signal	E	76.6	Signal	F	90.7	Yes

CEQA Cumulative Plus FOUR PROJECTS Intersection Levels of Ser	VICE			AM Peak Hour							PM Peak Hour			
Intersection	CEQ/ No FOI	A Cumulati UR PROJE	ve CTS	CEQA Cum P	ulative Plu ROJECTS	IS FOUR		CEQ/ No FO	A Cumulat UR PROJE	ive CTS	CEQA Cum PF	ulative Plu ROJECTS	IS FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
15 S. Watt Avenue & Canberra Dr.	Signal	В	18.2	Signal	В	18.4	No	Signal	В	10.6	Signal	В	10.6	No
16 S. Watt Avenue & Jackson Road	Signal	F	140.9	Signal	F	246.9	Yes	Signal	F	102.2	Signal	F	207.8	Yes
17 S. Watt Avenue & Fruitridge Road	Signal	D	46.8	Signal	F	159.8	Yes	Signal	Е	79.2	Signal	F	174.2	Yes
18 S. Watt Avenue & Elder Creek Road	Signal	F	324.5	Signal	F	165.7	No	Signal	F	232.8	Signal	F	162.4	No
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	F	199.4	Signal	F	302.3	Yes	Signal	F	160.8	Signal	F	204.3	Yes
21 Elk Grove Florin Road & Gerber Road	Signal	Е	63.3	Signal	Е	72.8	No	Signal	E	70.8	Signal	Е	73.5	No
23 Hedge Avenue & Jackson Road	Signal	Е	56.3	Signal	F	214.4	Yes	Signal	С	29.7	Signal	F	121.0	Yes
24 Hedge Avenue & Fruitridge Road	All-way stop	Е	43.7	Signal	Е	72.0	No	All-way stop	D	28.5	Signal	Е	70.5	No
25 Hedge Avenue & Elder Creek Road	Signal	F	150.1	Signal	F	155.0	No	Signal	F	148.0	Signal	F	140.5	No
26 Hedge Avenue & Tokay Lane	Two-way stop	А	0.5	Two-way stop	А	0.4	No	Two-way stop	A	0.2	Two-way stop	А	0.2	No
Northbound Left Turn		А	0.0		А	0.0			А	0.0		А	0.0	
Southbound Left Turn		В	11.0		В	10.8			Α	9.3		Α	9.3	
Eastbound		F	102.1		F	99.5			E	47.9		E	45.4	
Westbound		F	54.2		F	52.3			E	39.0		E	37.1	
27 Hedge Avenue & Florin Road	Signal	С	32.6	Signal	В	15.5	No	Signal	С	23.9	Signal	А	9.1	No
28 Mayhew Road & Kiefer Boulevard	Signal	D	55.0	Signal	F	133.5	Yes	Signal	F	95.1	Signal	F	84.1	No

CEQA Cumulative Plus FOUR PROJECTS Intersection Levels of Ser	vice													
		A Cumulati		AM Peak Hour	ulativa Dlu			CE0	A Cumulat		PM Peak Hour	ulativa Dlu		1
Intersection			ve CTS		ROJECTS	ISFOUR			IR PROJE	CTS		allative Plu	ISFOUR	
	Control	Int	Delay	Control	Int	Delay	LOS Impact	Control	Int	Delay	Control	Int	Delay	LOS Impact
		LOS	(sec)		LOS	(sec)			LOS	(sec)		LOS	(sec)	
29 Mayhew Road & Jackson Road	Two-way stop	А	1.9	Signal	F	145.8	Yes	Two-way stop	А	3.0	Signal	F	129.4	Yes
Northbound Through - Left Turn		F	125.0						F	>300				
Northbound Right Turn		С	15.6						С	18.4				
Southbound		F	107.1						F	>300				
Eastbound Left Turn		В	13.4						В	11.1				
Westbound Left Turn		В	11.5						С	18.0				
30 Mayhew Road & Fruitridge Road	Two-way stop	А	5.9	Signal	D	36.3	No	Two-way stop	А	3.3	Signal	D	42.3	No
Northbound Left Turn		А	0.0						А	7.5				
Eastbound		А	9.7						А	9.3				
31 Mayhew Road & Elder Creek Road	Signal	Е	76.4	Signal	F	297.4	Yes	Signal	С	27.3	Signal	F	211.5	Yes
32 Woodring Drive & Zinfandel Drive	Two-way stop	А	2.1	Two-way stop	E	40.8	Yes	Two-way stop	А	2.2	Two-way stop	С	20.8	Yes
Eastbound		С	21.5		F	>300			Е	38.5		F	>300	
Northbound Left Turn		А	8.0		В	12.6			В	10.6		В	14.8	
33 Bradshaw Road & Folsom Blvd.	Signal	E	56.6	Signal	E	55.8	No	Signal	E	70.1	Signal	Е	60.2	No
34 Bradshaw Road & US 50 WB Ramps	Signal	В	10.5	Signal	В	13.1	No	Signal	В	12.1	Signal	С	32.3	No
35 Bradshaw Road & US 50 EB Ramps	Signal	D	35.3	Signal	E	68.7	Yes	Signal	В	14.4	Signal	D	40.2	No
36 Bradshaw Road & Old Placerville Road	Signal	E	78.4	Signal	F	89.9	Yes	Signal	E	66.1	Signal	F	88.7	Yes
37 Bradshaw Road & Kiefer Boulevard	Signal	Е	65.5	Signal	F	180.8	Yes	Signal	E	61.7	Signal	F	197.9	Yes
38 Bradshaw Road & Jackson Road	Signal	F	188.2	Signal	F	147.0	No	Signal	F	184.2	Signal	F	149.8	No
39 Bradshaw Road & Elder Creek Road	Signal	F	127.5	Signal	F	172.5	Yes	Signal	F	105.3	Signal	F	155.7	Yes

CEO	QA Cumulative Plus FOUR PROJECTS Intersection Levels of Ser	vice													
					AM Peak Hour							PM Peak Hour			
		CEQA	A Cumulati	ve	CEQA Cum	ulative Plu	IS FOUR		CEQA	A Cumulati	ive	CEQA Cum	ulative Plu	is FOUR	
	Intersection	No FOL	JR PROJE		P	ROJECTS		I OS Impact	No FO	JR PROJE	CTS	PI	ROJECTS		I OS Impact
		Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)		Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	mp.or
40	Bradshaw Road & Florin Road	Signal	F	127.5	Signal	F	128.0	No	Signal	Е	66.1	Signal	F	95.5	Yes
41	Bradshaw Road & Gerber Road	Signal	F	108.6	Signal	F	87.6	No	Signal	Е	59.1	Signal	Е	66.0	No
42	P Happy Lane & Old Placerville Road	Two-way stop	Е	47.0	Two-way stop	F	181.0	Yes	Two-way stop	А	9.8	Two-way stop	F	192.1	Yes
	Northbound Left Turn		F	>300		F	>300			F	>300		F	>300	
	Northbound Right Turn		F	>300		F	>300			Ε	38.3		F	>300	
	Westbound Left Turn		С	15.6		F	>300			В	14.8		F	>300	
43	B Happy Lane & Kiefer Boulevard	F	ree Turn		Signal	F	125.0	Yes	F	Free Turn		Signal	F	98.2	Yes
44	Excelsior Road & Kiefer Boulevard	West Jackso P	n/Jackson <sup>-</sup> roject Int.	Township	Signal	F	148.2	Yes	West Jackso P	n/Jackson Project Int.	Township	Signal	F	83.6	Yes
45	Excelsior Road & Jackson Road	Signal	Е	60.4	Signal	F	357.8	Yes	Signal	D	54.4	Signal	F	274.1	Yes
46	Excelsior Road & Elder Creek Road	Two-way stop	F	102.9	Signal	F	126.6	Yes	Two-way stop	С	24.1	Signal	F	120.1	Yes
	Northbound Left Turn		А	7.9						А	8.0				
	Eastbound		F	>300						Е	44.0				
47	Excelsior Road & Florin Road	All-way stop	F	61.6	Signal	F	212.0	Yes	All-way stop	F	67.7	Signal	F	169.6	Yes
48	Excelsior Road & Gerber Road/Birch Ranch Drive	All-way stop	С	15.8	All-way stop	Е	46.1	No	All-way stop	В	11.1	All-way stop	Е	39.8	No
49	Mather Field Road & US 50 WB Ramps	Signal	В	18.0	Signal	С	23.0	No	Signal	В	12.9	Signal	В	15.2	No
50	Mather Field Road & US 50 EB Ramps	Signal	С	20.5	Signal	С	20.3	No	Signal	С	22.5	Signal	В	18.6	No
51	Mather Field Road & Rockingham Drive	Signal	F	158.8	Signal	F	271.4	Yes	Signal	F	118.7	Signal	F	144.7	Yes
52	2 Mather Boulevard & Douglas Road	Signal	Е	56.0	Signal	E	58.6	No	Signal	D	48.7	Signal	Е	64.8	No

CEQA Cumulative Plus FOUR PROJECTS Intersection Levels of Ser	vice													
Intersection	CEQ/ No FO	A Cumulati	ve CTS	AM Peak Hour CEQA Cum Pl	ulative Plu ROJECTS	is FOUR		CEQ No FO	A Cumulat UR PROJE	ive CTS	PM Peak Hour CEQA Cum PF	ulative Plu ROJECTS	s FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
53 Zinfandel Drive & US 50 WB Ramps	Signal	D	53.8	Signal	В	17.7	No	Signal	E	60.8	Signal	D	48.3	No
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	F	121.0	Signal	F	118.7	No	Signal	F	117.6	Signal	F	81.2	No
55 Zinfandel Drive & White Rock Road	Signal	E	75.9	Signal	E	78.0	No	Signal	F	132.1	Signal	F	130.8	No
56 Zinfandel Drive & Data Drive	Signal	Е	69.3	Signal	Е	69.0	No	Signal	E	56.9	Signal	Е	57.8	No
57 Zinfandel Drive & International Dr	Signal	F	83.3	Signal	F	83.6	No	Signal	F	99.8	Signal	F	89.0	No
58 Zinfandel Drive & Douglas Road	Signal	F	152.7	Signal	F	273.9	Yes	Signal	F	84.5	Signal	F	273.2	Yes
59 Eagles Nest Road/Zinfandel Drive & Kiefer Boulevard	Two-way stop	F	51.5	Signal	F	86.3	Yes	Two-way stop	E	49.8	Signal	Е	61.2	No
Westbound		F	91.1						F	182.9				
Southbound Left Turn		A	8.1						А	9.2				
60 Eagles Nest Road & Jackson Road	Signal	С	30.4	Signal	Е	62.7	No	Signal	с	34.2	Signal	E	64.0	No
61 Eagles Nest Road & Florin Road	Two-way stop	F	194.9	Two-way stop	F	>300	Yes	Two-way stop	F	83.9	Two-way stop	F	>300	Yes
Northbound		F	>300		F	>300			F	>300		F	>300	
Southbound		F	>300		F	>300			F	>300		F	>300	
Eastbound Left Turn		В	10.3		В	11.6			A	8.4		A	0.0	
Westbound Left Turn		A	0.0		A	0.0			A	9.4		A	0.0	
62 Sunrise Boulevard & US 50 WB Ramps	Signal	E	68.6	Signal	E	72.1	No	Signal	С	23.4	Signal	С	23.8	No
63 Sunrise Boulevard & US 50 EB Ramps	Signal	В	12.0	Signal	В	11.7	No	Signal	В	19.7	Signal	В	15.7	No
64 Sunrise Boulevard & Folsom Boulevard	Signal	D	52.1	Signal	D	54.6	No	Signal	D	51.6	Signal	D	52.7	No

CEQA Cumulative Plus FOUR PROJECTS Intersection Levels of Se	ervice													
Intersection	CEQ No FO	A Cumulati UR PROJE	ve CTS	AM Peak Hour CEQA Cur P	nulative Plu ROJECTS	is FOUR		CEQ No FC	A Cumulat	ive CTS	PM Peak Hour CEQA Cun P	nulative Plu ROJECTS	IS FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
65 Sunrise Boulevard & White Rock Road	Signal	E	70.0	Signal	E	71.4	No	Signal	F	128.2	Signal	F	131.9	No
66 Sunrise Boulevard & International Drive/Monier Circle	Signal	F	115.2	Signal	F	116.7	No	Signal	F	82.6	Signal	E	77.2	No
67 Sunrise Boulevard & Douglas Road	Signal	F	142.9	Signal	F	230.7	Yes	Signal	E	75.5	Signal	F	115.4	Yes
68 Sunrise Boulevard & Chrysanthy Boulevard	Signal	D	49.8	Signal	D	47.1	No	Signal	В	11.4	Signal	С	20.6	No
69 Sunrise Boulevard & Kiefer Boulevard	Signal	F	157.5	Signal	F	443.8	Yes	Signal	F	133.4	Signal	F	167.2	Yes
70 Sunrise Boulevard & Jackson Road	Signal	D	48.8	Signal	F	109.7	Yes	Signal	D	49.2	Signal	F	89.0	Yes
71 Sunrise Boulevard & Florin Road	Signal	E	78.7	Signal	E	71.8	No	Signal	E	67.1	Signal	E	78.8	No
72 Sheldon Lake Drive/Sunrise Boulevard & Grant Line Road	Signal	F	149.2	Signal	F	188.1	Yes	Signal	E	72.0	Signal	E	79.3	No
73 Hazel Avenue & Tributary Point Drive/US 50 WB Off-ramp	Signal	F	157.9	Signal	F	156.2	No	Signal	F	115.7	Signal	F	119.5	No
74 Hazel Avenue & US 50 EB Ramps	Signal	В	16.9	Signal	В	17.4	No	Signal	F	83.4	Signal	F	82.6	No
76 Prairie City Road & White Rock Road	Signal	E	77.7	Signal	F	96.4	Yes	Signal	F	133.7	Signal	F	137.2	No
77 Grant Line Road & White Rock Road	Signal	С	30.0	Signal	С	34.2	No	Signal	D	41.1	Signal	D	39.0	No
78 Grant Line Road & Douglas Road	Signal	D	51.8	Signal	D	48.3	No	Signal	F	103.0	Signal	E	79.7	No
79 Grant Line Road & Kiefer Boulevard	Signal	С	21.2	Signal	В	19.8	No	Signal	С	22.7	Signal	С	26.2	No
80 Grant Line Road & Jackson Road	Signal	F	104.0	Signal	F	140.0	Yes	Signal	E	58.9	Signal	F	83.0	Yes

CEQA Cumulative Plus FOUR PROJECTS Intersection Levels of Ser	vice				,						DM Dook Hour			
Intersection	CEQ No FO	A Cumulati UR PROJE	ve CTS	CEQA Cur P	nulative Plu ROJECTS	IS FOUR		CEQ No FO	A Cumulat	ive CTS	CEQA Cun P	nulative Plu ROJECTS	IS FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
81 Watt Avenue & US-50 EB Ramps	Signal	С	24.5	Signal	С	28.5	No	Signal	В	19.3	Signal	В	19.0	No
82 Watt Avenue & US-50 WB Ramps	Signal	F	81.4	Signal	E	76.2	No	Signal	E	57.1	Signal	E	57.2	No
83 Mayhew Rd & Folsom Blvd.	Signal	С	23.6	Signal	С	34.6	No	Signal	С	26.8	Signal	С	30.9	No
84 65th Street Expy & Fruitridge Road	Signal	D	43.5	Signal	D	44.9	No	Signal	D	43.4	Signal	D	49.8	No
85 Power Inn Road & Elder Creek Road	Signal	E	71.2	Signal	E	75.9	No	Signal	E	55.4	Signal	E	65.2	No
86 Power Inn Road & Florin Rd	Signal	F	99.3	Signal	F	118.5	Yes	Signal	E	72.7	Signal	E	79.0	No
87 Florin Perkins Road & Florin Rd	Signal	E	55.8	Signal	E	77.3	No	Signal	F	107.4	Signal	F	112.0	No
88 Bradshaw Rd & Calvine Rd	Signal	D	49.6	Signal	D	50.2	No	Signal	С	34.5	Signal	D	44.2	No
89 Vineyard Rd & Calvine Rd	Signal	С	32.0	Signal	D	35.3	No	Signal	С	34.0	Signal	D	36.0	No
90 Excelsior Road & Calvine Rd	Signal	С	21.6	Signal	D	35.0	No	Signal	С	21.7	Signal	С	27.7	No
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	F	369.2	Signal	F	358.4	No	Signal	F	314.5	Signal	F	343.5	Yes
92 Grant Line Rd & Calvine Rd	Signal	D	42.4	Signal	D	47.6	No	Signal	D	40.9	Signal	D	51.2	No
93 Grant Line Rd & Dwy/Wilton Rd	Signal	F	85.4	Signal	F	89.1	No	Signal	E	79.3	Signal	F	103.6	Yes
94 Grant Line Rd & Bond Rd/Wrangler Dr	Signal	D	54.9	Signal	D	48.3	No	Signal	D	48.0	Signal	D	47.0	No
95 Florin Perkins Road & 14th Avenue	Signal	D	54.3	Signal	E	67.6	Yes	Signal	D	37.3	Signal	D	54.3	No

CEQA Cumulative Plus FOUR PROJECTS Intersection Levels of Ser	VICE			AM Peak Hour							PM Peak Hour			
Intersection	CEQ. No FO	A Cumulati	ve CTS	CEQA Cun P	nulative Plu ROJECTS	s FOUR		CEQ No FO	A Cumulati	ve CTS	CEQA Cun P	nulative Plu ROJECTS	IS FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
96 Jackson Road & 14th Avenue	Signal	F	96.3	Signal	F	166.5	Yes	Signal	С	33.3	Signal	F	115.4	Yes
97 Rock Creek Pkwy & Jackson Road	Signal	F	89.0	Signal	F	201.5	Yes	Signal	D	49.9	Signal	F	188.2	Yes
98 Aspen 1 Access Road & Jackson Road	Signal	С	29.7	Signal	С	25.6	No	Signal	D	39.2	Signal	С	23.3	No
99 Rancho Cordova Pkwy & US-50 WB Ramps	Signal	F	147.4	Signal	F	149.2	No	Signal	F	119.8	Signal	F	102.6	No
100 Rancho Cordova Pkwy & US-50 EB Ramps	Signal	D	53.7	Signal	С	26.7	No	Signal	D	44.4	Signal	D	40.2	No
101 Rancho Cordova Pkwy & Easton Valley Pkwy	Signal	С	30.9	Signal	D	51.2	No	Signal	D	50.3	Signal	D	50.8	No
102 Rancho Cordova Pkwy & White Rock Road	Signal	F	229.8	Signal	F	221.4	No	Signal	F	135.6	Signal	F	135.6	No
103 Rancho Cordova Pkwy & Douglas Road	Signal	E	65.6	Signal	E	64.6	No	Signal	E	60.8	Signal	E	58.5	No
104 Rancho Cordova Pkwy & Chrysanthy Boulevard/Chrysanthy Blvd	Signal	F	106.8	Signal	F	102.9	No	Signal	E	68.0	Signal	E	64.2	No
105 Rancho Cordova Pkwy & Kiefer Blvd	Signal	D	49.4	Signal	E	71.1	Yes	Signal	С	34.2	Signal	D	52.4	No
106 Rancho Cordova Pkwy & Grant Line Road	Signal	F	87.1	Signal	E	66.3	No	Signal	D	46.7	Signal	D	53.7	No
107 Americanos Blvd & White Rock Road	Signal	В	15.0	Signal	В	13.6	No	Signal	С	21.0	Signal	В	18.9	No
108 Americanos Blvd & Douglas Road	Signal	E	61.4	Signal	E	61.7	No	Signal	D	43.1	Signal	D	41.0	No
109 Americanos Blvd & Chrysanthy Blvd	Signal	D	41.6	Signal	D	35.1	No	Signal	D	37.3	Signal	D	35.8	No
110 Americanos Blvd & Kiefer Blvd	Signal	А	8.8	Signal	В	15.2	No	Signal	В	11.0	Signal	В	18.6	No

CE	QA Cumulative Plus FOUR PROJECTS Intersection Levels of	Service													
	Intersection	CEQ No FO	A Cumulati UR PROJE	ive CTS	AM Peak Hour CEQA Cur F	nulative Plu PROJECTS	IS FOUR		CEQ No FC	A Cumulat	ive CTS	PM Peak Hour CEQA Cun P	nulative Plu ROJECTS	IS FOUR	
		Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
11 <sup>-</sup>	1 Grant Line Road & Chrysanthy Blvd	Signal	F	125.9	Signal	F	114.9	No	Signal	F	112.9	Signal	F	111.3	No
11:	2 Hazel Avenue & Easton Valley Pkwy	Signal	F	188.9	Signal	F	170.7	No	Signal	С	26.4	Signal	С	26.5	No
20	D Excelsior Road & Collector WJ-1/Collector JT-1	West Jacks	on/Jackson Project Int.	Township	Signal	E	62.6	No	West Jacks	on/Jackson Project Int.	Township	Signal	D	53.1	No
20	1 Excelsior Road & Collector WJ-2/Collector JT-2	West Jacks	West Jackson/Jackson Township Project Int. Mather South Project Int.			E	75.4	No	West Jacks	on/Jackson Project Int.	Township	Signal	D	53.6	No
202	2 W Collector MS-1 & Kiefer Boulevard	Mather	Mather South Project Int.			С	27.0	No	Mather	South Proje	ect Int.	Signal	В	19.2	No
203	3 Northbridge Dr & Kiefer Boulevard	NewB	NewBridge Project Int.			В	15.9	No	NewB	ridge Projec	et Int.	Signal	С	22.5	No
204	4 E Collector MS-1 & Kiefer Boulevard	Mather	NewBridge Project Int. Mather South Project Int.			В	12.4	No	Mather	South Proje	ect Int.	Signal	С	23.8	No
30	0 Collector WJ-3 & Jackson Road	West Ja	ickson Proje	ect Int.	Signal	D	52.2	No	West Ja	ackson Proje	ect Int.	Signal	с	29.0	No
30	1 Collector WJ-4 & Jackson Road	West Ja	ickson Proje	ect Int.	Signal	D	42.1	No	West Ja	ackson Proje	ect Int.	Signal	E	76.4	No
30	2 Happy Lane & Jackson Road	West Ja	ickson Proje	ect Int.	Signal	E	60.7	No	West Ja	ackson Proje	ect Int.	Signal	E	61.4	No
30	3 Rock Creek Pkwy & Jackson Road	West Ja	ickson Proje	ect Int.	Signal	D	45.8	No	West Ja	ackson Proje	ect Int.	Signal	D	42.6	No
304	4 Collector WJ-5 & Jackson Road	West Ja	West Jackson Project Int. West Jackson Project Int.			E	72.5	No	West Ja	ackson Proje	ect Int.	Signal	D	39.2	No
30	5 Collector WJ-6 & Jackson Road	West Ja	West Jackson Project Int. West Jackson Project Int.			D	38.6	No	West Ja	ackson Proje	ect Int.	Signal	D	44.3	No
30	6 Excelsior Road & Collector WJ-6	West Ja	ickson Proje	ect Int.	Signal	F	109.6	Yes	West Ja	ackson Proje	ect Int.	Signal	D	44.9	No
30 <sup>-</sup>	7 S. Watt Avenue & Rock Creek Pkwy	West Ja	ickson Proje	ect Int.	Signal	С	22.6	No	West Ja	ackson Proje	ect Int.	Signal	С	20.3	No

CEOA Cumulativa Diva EOUD DDO JECTS Intersection Levels of Sa	ndee	AM Pe												
CEQA Cumulative Plus FOOR PROJECTS Intersection Levels of Sel				AM Peak Hour							PM Peak Hour			
Intersection	CEQ. No FO	A Cumulati UR PROJE	ve CTS	CEQA Cum Pl	ulative Plu ROJECTS	s FOUR		CEC No FC	A Cumulati	ve CTS	CEQA Cum P	nulative Plu ROJECTS	IS FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
308 Hedge Avenue & Rock Creek Pkwy WB	West Ja	ckson Proje	ct Int.	Roundabout	F	77.3	Yes	West Ja	ackson Proje	ect Int.	Roundabout	С	17.0	No
309 Hedge Avenue & Rock Creek Pkwy EB	West Ja	ckson Proje	ct Int.	Roundabout	С	16.0	No	West Ja	ackson Proje	ect Int.	Roundabout	В	11.1	No
310 Mayhew Road & Rock Creek Pkwy WB	West Ja	ckson Proje	ct Int.	Roundabout	F	341.2	Yes	West Ja	ackson Proje	ect Int.	Roundabout	F	348.9	Yes
311 Mayhew Road & Rock Creek Pkwy EB	West Ja	West Jackson Project Int.RoWest Jackson Project Int.			F	254.9	Yes	West Ja	ackson Proje	ect Int.	Roundabout	F	204.0	Yes
312 Bradshaw Road & Rock Creek Pkwy	West Ja	West Jackson Project Int.			Е	79.5	No	West Ja	ackson Proje	ect Int.	Signal	E	76.7	No
313 Collector WJ-7 & Rock Creek Pkwy	West Ja	West Jackson Project Int.			В	18.1	No	West Ja	ackson Proje	ect Int.	Signal	В	16.7	No
314 Vineyard Road/Happy Lane & Rock Creek Pkwy	West Ja	ckson Proje	ct Int.	Signal	Е	56.0	No	West Ja	ackson Proje	ect Int.	Signal	F	88.7	Yes
315 Douglas Road & Rock Creek Pkwy	West Ja	ckson Proje	ct Int.	Signal	D	42.2	No	West Ja	ackson Proje	ect Int.	Signal	D	41.3	No
316 Bradshaw Road & Collector WJ-8	West Ja	ckson Proje	ct Int.	Signal	D	46.1	No	West Ja	ackson Proje	ect Int.	Signal	С	27.7	No
317 Bradshaw Road & Collector WJ-9	West Ja	ckson Proje	ct Int.	Signal	Е	57.9	No	West Ja	ackson Proje	ect Int.	Signal	D	41.4	No
318 Bradshaw Road & Mayhew Road	West Ja	ckson Proje	ct Int.	Signal	F	185.3	Yes	West Ja	ackson Proje	ect Int.	Signal	F	132.9	Yes
319 Bradshaw Road & Collector WJ-10	West Ja	ckson Proje	ct Int.	Signal	В	10.5	No	West Ja	ackson Proje	ect Int.	Signal	С	30.6	No
320 Bradshaw Road & Collector WJ-11	West Ja	West Jackson Project Int. West Jackson Project Int.			В	14.0	No	West Ja	ackson Proje	ect Int.	Signal	С	30.6	No
321 Collector WJ-12 & Fruitridge Road	West Ja	ckson Proje	ct Int.	Signal	С	31.3	No	West Ja	ackson Proje	ect Int.	Signal	D	46.9	No
322 Mayhew Road & Collector WJ-13	West Ja	ckson Proje	ct Int.	Signal	В	17.0	No	West Ja	ackson Proje	ect Int.	Signal	С	20.8	No

				AM Peak Hour							PM Peak Hour			
Intersection	CEQ No FO	A Cumulati	ve CTS	CEQA Cum Pl	ulative Plu ROJECTS	s FOUR		CEQ No FO	A Cumulati	ve CTS	CEQA Cum Pl	ulative Plu ROJECTS	s FOUR	
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
323 Collector WJ-14 & Kiefer Boulevard	West Ja	ickson Proje	ect Int.	Signal	E	59.1	No	West Ja	ackson Proje	ect Int.	Signal	E	69.2	No
324 Collector WJ-15 & Kiefer Boulevard	West Ja	ickson Proje	ect Int.	Signal	D	41.9	No	West Ja	ackson Proje	ect Int.	Signal	С	29.5	No
325 Douglas Road & Kiefer Boulevard	West Ja	ickson Proje	ect Int.	Signal	F	223.6	Yes	West Ja	ackson Proje	ect Int.	Signal	F	141.7	Yes
326 Happy Lane & Mayhew Road	West Ja	West Jackson Project Int.     Rou       West Jackson Project Int.     State			F	277.4	Yes	West Ja	ackson Proje	ect Int.	Roundabout	F	204.6	Yes
327 Vineyard Road & Elder Creek Road	West Ja	West Jackson Project Int.		Signal	Е	77.7	No	West Ja	ackson Proje	ect Int.	Signal	D	51.3	No
328 Vineyard Road & Florin Road	Signal	Signal B 11.2			F	104.2	Yes	Signal	В	12.6	Signal	Е	55.9	No
400 Collector JT-3 & Jackson Road	Jackson T	ownship Pro	oject Int.	Signal	F	88.1	Yes	Jackson T	ownship Pro	oject Int.	Signal	D	49.8	No
401 Tree View Lane & Jackson Road	Jackson T	ownship Pro	oject Int.	Signal	С	27.0	No	Jackson T	ownship Pro	oject Int.	Signal	А	8.9	No
402 Collector JT-4 & Jackson Road	Jackson T	ownship Pro	oject Int.	Signal	Е	77.3	No	Jackson T	ownship Pro	oject Int.	Signal	В	17.4	No
403 Tree View Lane & Collector JT-5	Jackson T	ownship Pro	oject Int.	Signal	В	19.1	No	Jackson T	ownship Pro	oject Int.	Signal	С	21.3	No
404 Tree View Lane & Collector JT-6	Jackson T	ownship Pro	oject Int.	Signal	В	10.1	No	Jackson T	ownship Pro	oject Int.	Signal	В	18.2	No
405 Tree View Lane & Collector JT-1	Jackson T	ownship Pro	oject Int.	Signal	С	29.2	No	Jackson T	ownship Pro	oject Int.	Signal	С	26.3	No
406 Tree View Lane & Kiefer Boulevard	Jackson T	Jackson Township Project Int.			В	18.6	No	Jackson T	ownship Pro	oject Int.	Signal	В	19.1	No
407 HS/MS Dwy & Kiefer Boulevard	Jackson T	ownship Pro	oject Int.	Signal	С	34.6	No	Jackson T	ownship Pro	oject Int.	Signal	С	34.7	No
500 Rockbridge Dr & Jackson Road	NewBi	ridge Project	t Int.	Signal	Е	75.4	No	NewB	ridge Projec	t Int.	Signal	С	20.7	No

				AM Peak Hour							PM Peak Hour			
	CEQ	A Cumulati	ve	CEQA Cum	ulative Plu	s FOUR		CEQ	A Cumulati	ve	CEQA Cum	ulative Plu	s FOUR	
Intersection	No FO	UR PROJE	CTS	PI	ROJECTS			No FC	UR PROJE	CTS	PF	ROJECTS		
	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
501 Eagles Nest Road & N Bridgewater Dr	NewBr	idge Projec	t Int.	Signal	А	7.4	No	NewB	ridge Project	t Int.	Signal	В	10.6	No
502 Eagles Nest Road & S Bridgewater Dr	NewBr	idge Projec	t Int.	Signal	С	31.8	No	NewB	ridge Project	t Int.	Signal	С	27.8	No
600 Zinfandel Drive & Collector MS-2	Mather	Mather South Project Int. S Mather South Project Int. S			В	18.4	No	Mather	South Proje	ct Int.	Signal	D	45.4	No
601 Zinfandel Drive & Collector MS-3	Mather South Project Int.			Signal	С	32.5	No	Mather	South Proje	ct Int.	Signal	В	15.9	No
602 Zinfandel Drive & Collector MS-4	Mather South Project Int. Mather South Project Int.			Signal	D	51.3	No	Mather	South Proje	ct Int.	Signal	С	24.8	No
603 Collector MS-5 & Collector MS-2	Mather	South Proje	ct Int.	All-way stop	В	11.7	No	Mather	South Proje	ct Int.	All-way stop	В	12.8	No
604 Collector MS-5 & Collector MS-3				Two-way stop	В	11.4	No				Two-way stop	С	19.2	No
Northbound Left Turn	Mathor	South Proje	ct Int		А	7.5		Mathor	South Proje	et Int		Α	8.1	
Southbound Left Turn		South roje	ot mt.		Α	0.0		Maulei	South Toje	ol III.		Α	0.0	
Eastbound					В	12.7						F	56.1	
Westbound					С	17.6						Е	45.5	
605 Collector MS-5 & Collector MS-4	Mather	South Proje	ct Int.	All-way stop	F	55.5	Yes	Mather	South Proje	ct Int.	All-way stop	Е	43.1	No
606 Collector MS-5 & W Collector MS-1/E Collector MS-1	Mather	South Proje	ct Int.	All-way stop	Е	40.3	No	Mather	South Proje	ct Int.	All-way stop	E	41.4	No

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CEQA Cumulative and CEQA Cumulative Plus FOUR PROJECTS Inte	rsection Geomet	rics									
	Traffic	Control		CEQA Cumulative	Lane Geometrics		CEQA Cum	ulative Plus FOUR	PROJECTS Lane	Geometrics	
Intersection	CEQA Cumulative	CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
1 Howe Avenue & College Town Drive/US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow \downarrow$	ሻ ሾሾ	<u> </u>	111 r	$\downarrow \downarrow \downarrow \downarrow \downarrow$	ሻ ፖፖ	<u> </u>	
2 Howe Avenue & US 50 EB Ramps	Signal	Signal	111 r	ל † לי ע	<u> </u>		111 r	, ↓↓↓↓	<u> </u>		
3 Power Inn Road/Howe Avenue & Folsom Blvd	Signal	Signal	<u>ካ</u> ካ111 ፖ	N † † † <i>r r</i>	<u>ካ</u> ካተ ሾ	ካካ11 ፖፖ	<u>ካካ†††</u> ፖ	N † † † <i>K K</i>	<u>ካ</u> ካተ ሾ	<u>רר</u> וֹרַר	
4 Power Inn Road & 14th Avenue	Signal	Signal	ntt h	NT T T R	51 ř	ጓ† ፖ	ntt ř	N T T P	ጓተ ሾ	ጓጎ ፖ	
5 Power Inn Road & Fruitridge Road	Signal	Signal	<u></u>	511 <i>22</i>	ጓተ ሾ	ጓጎጎ ፖ	<u> ካ</u> ካተ ሾ	5 † † <i>r r</i>	ጓተ ሾ	ntt r	
6 Jackson Road/Notre Dame Dr. & Folsom Blvd.	Signal	Signal	ጓኘ ፖ	<b>√</b> ¢	ጓጎጎ ፖ	ጓጎተ ፖ	ጓኘ ፖ	<b>√</b> ↓	ጓጎጎ ፖ	ካተተ ፖ	
7 Florin Perkins Road/Julliard Dr. & Folsom Boulevard	Signal	Signal	ጓኘ ፖ	44	ካተተ ፖ	nt r	ጓኘ ፖ	44	ካ†ተ ፖ	ካ† ሾ	
8 Florin Perkins Road & Kiefer Blvd.	Two-way stop	Two-way stop	1 t	$\downarrow \downarrow \checkmark$		<u>ነ</u> ኛ	t r	$\downarrow \downarrow \checkmark$		ኻሾ	
9 Florin Perkins Road & Jackson Road	Signal	Signal	ካተተ ፖ	415	ጓጎጎ ፖ	ጓተ ሾ	<u>ካተ ፖ</u>	415	ጓጎጎ ፖ	ካ† ሾ	
10 Florin Perkins Road & Fruitridge Road	Signal	Signal	ካተተ ፖ	2↓↓¢	ካተተ ፖ	nt r	stt r	$\downarrow \downarrow \downarrow \checkmark$	ካ†ተ ፖ	ካ† ሾ	
11 Florin Perkins Road & Elder Creek Road	Signal	Signal	ካተተ ፖ		ጓጎጎ ፖ	ጓጎጎ ፖ	<u>ካተተ</u> ኛ	$\gamma \downarrow \uparrow \gamma$	ጓጎጎ ፖ	ntt r	
12 Watt Avenue & Folsom Blvd.	Signal	Signal	<u>ካ</u> ካ111 ፖ	N † † † <i>r r</i>	ካካ†† ፖ	ካካ11 ፖ	<u>ካካ††† ፖ</u>	$\gamma \uparrow \uparrow \uparrow \gamma \gamma$	ካካተተ ፖ	<u>ካካ†† ፖ</u>	
13 S. Watt Ave. & Reith Ct/Manlove Road	Signal	Signal	ካተተ ፖ	4114	*	<u> ነ</u> ዮጵ	5111 r	4 L L M	*	5 <i>47</i>	
14 S. Watt Avenue & Kiefer Blvd.	Signal	Signal	ካካተተ ሾ	41166	<u>ካ</u> ካተተ ፖ	<u>ካ</u> ካተተ ፖ	<u>ካ</u> ካተተ ሾ	41177	<u>ካካተተ ፖ</u>	<u>ካካ†† ፖ</u>	
15 S. Watt Avenue & Canberra Dr.	Signal	Signal	11 r	$\uparrow \uparrow \uparrow \land$		ኻሾ	11 P	$\downarrow \downarrow \downarrow \checkmark \checkmark$		<u>እ</u> ሮ	
16 S. Watt Avenue & Jackson Road	Signal	Signal	<u> </u>	5111 <i>77</i>	<u>ካ</u> ካተተ ፖ	<u>ካ</u> ካተተ ፖ	<u>ካካ†††</u> ፖ	$\downarrow \downarrow \downarrow \downarrow \lor \lor$	<u>ካካተተ ፖ</u>	<u>ካካ†† ፖ</u>	West Jackson
17 S. Watt Avenue & Fruitridge Road	Signal	Signal	<u>ግ 111 ፖ</u>	NTT R	ጓጎ ፖ	ኁሾ	<u>ካ††</u> ፖ	$\downarrow \downarrow \downarrow \downarrow \checkmark$	ጓጎ ፖ	<u> </u>	West Jackson
18 S. Watt Avenue & Elder Creek Road	Signal	Signal	<u> </u>	N	<u>ካካ† ፖ</u>	<u>ካተተ</u> ኛ	<u>ካካ†††</u> ፖ	₩↓↓↓ <i>K</i> K	<u>ካ</u> ካ† ፖ	ካተተ ፖ	
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	Signal	<u> </u>	5111 <i>77</i>	ጓጎጎ ፖ	ጓጎተ ፖ	<u>ካካ†††</u> ፖ	$\downarrow \downarrow \downarrow \downarrow \lor \lor$	ጓጎጎ ፖ	ካተተ ፖ	
21 Elk Grove Florin Road & Gerber Road	Signal	Signal	<u> </u>	5111 <i>77</i>	<u>ካ</u> ካተተ ፖ	<u>ካ</u> ካተተ ፖ	<u>ካካ†††</u> ፖ	$\downarrow \downarrow \downarrow \downarrow \lor \lor$	<u>ካካተተ ፖ</u>	<u>ካካ†† ፖ</u>	
23 Hedge Avenue & Jackson Road	Signal	Signal	ኻሾ	45	ጓጎጎ ፖ	ጓጎተ ፖ	ኁሾ	45	ካተ ሾ	51 ř	West Jackson
24 Hedge Avenue & Fruitridge Road	All-way stop	Signal	Ŷ	*	Ŷ	Ŷ	<u> </u>	245	ካተ ፖ	51 ř	West Jackson
25 Hedge Avenue & Elder Creek Road	Signal	Signal	ኻ↑ሾ	245	51 ř	ካተ ሾ	٦1 r	2 L L	ካተ ሾ	ካ† ሾ	
26 Hedge Avenue & Tokay Lane	Two-way stop	Two-way stop	*	*	*	*	*	*	*	Ý	
27 Hedge Avenue & Florin Road	Signal	Signal	*	*	ጓተ ሾ	ጓተ ሾ	*	*	ጓተ ሾ	<u>ካ</u> ተ ሾ	
28 Mayhew Road & Kiefer Boulevard	Signal	Signal	<u>ካ</u> ተ ፖ	214	ካተ ሾ	ካ† ሾ	ካተኛ	2 L	ካ† ሾ	ካተ ፖ	

CEQA Cumulative and CEQA Cumulative Plus FOUR PROJECTS Inte	rsection Geomet	rics									
	Traffic	Control		CEQA Cumulative	Lane Geometrics		CEQA Cum	ulative Plus FOUR	PROJECTS Lane	Geometrics	
Intersection	CEQA Cumulative	CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
29 Mayhew Road & Jackson Road	Two-way stop	Signal	ላ ፖ	*	ካተተ ፖ	ጓተ ሾ	<u>ካካተተ ፖ</u>	511 <i>22</i>	ካካ111 ፖ	ካካ111 ፖ	West Jackson
30 Mayhew Road & Fruitridge Road	Two-way stop	Signal	7	4	Y		<u> ካ</u> ካ††	√↓↓	ኻኻሾ		West Jackson
31 Mayhew Road & Elder Creek Road	Signal	Signal	*	*	ጓተ ሾ	ጓተ ሾ	*	225	ጓተ ሾ	ጓተ ሾ	West Jackson
32 Zinfandel Drive & Woodring Drive	Two-way stop	Two-way stop	<b>n</b> ††	4↓	Y		<b>ħ</b> ††	4↓	Y		
33 Bradshaw Road & Folsom Blvd.	Signal	Signal	<u>ካ</u> ካተኛ	211 <i>2</i>	ካተተ ፖ	<u>ካ</u> ካተተ ፖ	<u> ካ</u> ካተ ሾ	$\downarrow \downarrow \downarrow \checkmark$	ካተተ ፖ	<u>ካካተተ ፖ</u>	
34 Bradshaw Road & US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \mu$		<u> </u>	111 <b>r</b>	↓ ↓ ↓ ∿		<u> </u>	
35 Bradshaw Road & US 50 EB Ramps	Signal	Signal	111 r	⊥ † † ∿	<u> </u>		111 <b>r</b>	↓ ↓ ↓ ⊾	<u> </u>		
36 Bradshaw Road & Old Placerville Road	Signal	Signal	ግ 1 1 ሰ	41144	ኁሾ	<u>ካካ</u> † ፖ	<u>ግተተኛ</u>	41177	<b>ካ</b> ሾ	<u>ካካ†</u> ፖ	
37 Bradshaw Road & Kiefer Boulevard	Signal	Signal	<u>ካካ††</u> ፖ	~+++ <i>~</i> ~	<u>ካካ†† ፖ</u>	<u>ካካ</u> ተ ሾ	<u> </u>	$\rightarrow \uparrow \uparrow \uparrow \uparrow \land \land$	<u>ካካ†† ፖ</u>	<u>ካካተተ ፖ</u>	West Jackson
38 Bradshaw Road & Jackson Road	Signal	Signal	<u> ካ</u> ተተ ሾ	$\gamma \uparrow \uparrow \uparrow \gamma$	ካ† ፖ	ካ† ፖ	<u> </u>	$\rightarrow \uparrow \uparrow \uparrow \land \checkmark$	<u> </u>	ካካ111 ፖ	West Jackson
39 Bradshaw Road & Elder Creek Road	Signal	Signal	ጓጎተ ሾ	4115	ኻኻሾ	ኻኻሾ	<u> ነ</u> ተተ ፖ	~+++~~	ኻኻሾ	<u>ካካተተ ፖ</u>	West Jackson
40 Bradshaw Road & Florin Road	Signal	Signal	<u>ካካ††</u> ፖ	~+++ <i>~</i> ~	<u>ካካ</u> ተ ሾ	<u>ካካ</u> ተ ሾ	<u> </u>	$\rightarrow \uparrow \uparrow \uparrow \uparrow \land \land$	<u>ካካ</u> ተ ሾ	<u>ካካ</u> ተ ሾ	
41 Bradshaw Road & Gerber Road	Signal	Signal	<u>ካካ††</u> ፖ	~+++ <i>~</i> ~	<u>ካካ†† ፖ</u>	ጓጎጎ ፖ	<u> </u>	$\rightarrow \uparrow \uparrow \uparrow \uparrow \land \land$	<u>ካካ†† ፖ</u>	ካተተ ፖ	
42 Happy Lane & Old Placerville Road	Two-way stop	Two-way stop	<u></u> ን <i>ዮ</i>		1 r	<u>ካ</u> †	<u></u> ንፖ		1 r	<u>ካ</u> †	
43 Happy Lane & Kiefer Boulevard		Signal		د	٦		ካካተተ ፖ	21166	<u> </u>	ካካ111 ፖ	West Jackson
44 Excelsior Road & Kiefer Boulevard	Two-way stop	Signal	r	4		Y	nt c	245	nt r	nt r	West Jackson; Jackson Township
45 Excelsior Road & Jackson Road	Signal	Signal	ካሾ	2 L C	ካ† ሾ	ካ† ሾ	ካሾ	<i>₽</i> ↓↓ <i>₽</i> ₽	ካካተተ ለ	<u>ካካተተ «</u>	West Jackson; Jackson Township
46 Excelsior Road & Elder Creek Road	Two-way stop	Signal	4	ل ب	Y		<u>ካ</u> †	<i>₽</i> ↓↓	ንሮ		West Jackson
47 Excelsior Road & Florin Road	All-way stop	Signal	Ý	<b></b>	Ý	*	5 ř	45	5 ř	5 ř	West Jackson
48 Excelsior Road & Gerber Road/Birch Ranch Drive	All-way stop	All-way stop	*	*	Ŷ	*	*	*	Ŷ	*	
49 Mather Field Road & US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow$		۶Ψ	111 m	$\downarrow \downarrow \downarrow \downarrow$		۶Ψ	
50 Mather Field Road & US 50 EB Ramps	Signal	Signal	111 <b>r</b>	$\downarrow \downarrow \downarrow \downarrow$	<u></u> ኘ ነት		111 m	$\downarrow \downarrow \downarrow \downarrow$	<b>፝</b> ፞፞፞፞፞፞፞፞፝		
51 Mather Field Road & Rockingham Drive	Signal	Signal	<u>ካተተ</u>		ካኘ ፖ	ሻ ሾ	<u>ካተተ</u>	$\gamma \uparrow \uparrow \uparrow \gamma$	ካኘ ፖ	٦ P	
52 Mather Boulevard & Douglas Road	Signal	Signal		27	<u>n</u> ††	۲ ۲		25	<u>s</u> ††	t 7	
53 Zinfandel Drive & US 50 WB Ramps	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow$		<u> </u>	111 m	$\downarrow \downarrow \downarrow \downarrow$		<u>ነ</u> ነለ	

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Table 6.6											
CEQA Cumulative and CEQA Cumulative Plus FOUR PROJECTS Inter-	ersection Geomet	rics									
	Traffic	Control		CEQA Cumulative	Lane Geometrics		CEQA Cum	ulative Plus FOUR	PROJECTS Lane	Geometrics	
Intersection	CEQA Cumulative	CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
54 Zinfandel Drive & US 50 EB Ramps/Gold Center Drive	Signal	Signal	111 r	$\downarrow \downarrow \downarrow \downarrow_{r}$	ጓጓ ዮፖ	<b>7</b> 7	111 r	$\downarrow \downarrow \downarrow \downarrow$	ጓጓ ዮፖ	<b>7</b> 7	
55 Zinfandel Drive & White Rock Road	Signal	Signal	<u>ካ</u> ካተተ ሾ	~\\\ <i>\\</i>	<u>ካ</u> ካተተ ሾ	<u>ካካ† ሾፖ</u>	<u>ካ</u> ካተተ ሾ	~+++ <i>r</i> ~	ካካተተ ሾ	ካካተ ሾፖ	
56 Zinfandel Drive & Data Drive	Signal	Signal	ጓተተ ሾ	4112	ኁ፟	ጓኘ ፖ	<u> ነተተ</u> ፖ	4115	ን፟	<u></u> ካሻ ፖ	
57 Zinfandel Drive & International Dr	Signal	Signal	<u>ካካ†††</u> ፖ	41144	<u>ካካ</u> ነተ ሾ	<u>ካካ†††</u> ፖ	<u> </u>	41177	ካካተተ ሾ	<u>ካካ††† ፖ</u>	
58 Zinfandel Drive & Douglas Road	Signal	Signal	<b>ካ</b> ሾ	してく	ጓተ ሾ	<u>ካካ†† ፖ</u>	ካሾ	してん	ጓተ ሾ	<u>ካካተተ ፖ</u>	
59 Eagles Nest Road/Zinfandel Drive & Kiefer Boulevard	Two-way stop	Signal	1 <i>°</i>	1 <b>4</b>		Ŷ	ካካተተ ፖ	$\downarrow \downarrow \downarrow \checkmark \downarrow$	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	NewBridge; Mather South
60 Eagles Nest Road & Jackson Road	Signal	Signal	Ŷ	*	ካሾ	ካሾ	<u>ካ</u> ሰፖ	2155	ካካተ ሾ	ካተተ ፖ	NewBridge
61 Eagles Nest Road & Florin Road	Two-way stop	Two-way stop	*	*	*	Ŷ	Ý	*	Ŷ	Ý	
62 Sunrise Boulevard & US 50 WB Ramps	Signal	Signal	<u>*</u> * * *	$\downarrow \downarrow \downarrow \downarrow_{\mathbf{u}}$		<i>ኻኻሾሾ</i>	111 <b>r</b>	$\downarrow \downarrow \downarrow \downarrow_{\mu}$		<u> </u>	
63 Sunrise Boulevard & US 50 EB Ramps	Signal	Signal	1111 r	$\downarrow \downarrow \downarrow \downarrow$	<u> </u>		1111 r	$\downarrow \downarrow \downarrow \downarrow$	<u> </u>		
64 Sunrise Boulevard & Folsom Boulevard	Signal	Signal	ካካተተተ ፖ	~+++~~	<u>ካካ†† ፖ</u>	<u>ካካ† ሾፖ</u>	ካካተተተ ፖ	$\mathbf{x} \uparrow \uparrow \uparrow \mathbf{x} \mathbf{x}$	<u>ካካ†† ፖ</u>	<u>ካካ† ሾፖ</u>	
65 Sunrise Boulevard & White Rock Road	Signal	Signal	<u>ካካ†††</u> ፖ	$\mathbf{x} \uparrow \uparrow \uparrow \mathbf{z} \mathbf{z}$	<u>ካካ††</u> ፖ	<u>ካካ†††</u> ፖ	<u>ካካተተ ራ</u>	$\mathcal{A} \downarrow \downarrow \downarrow \downarrow \mathcal{V} \mathcal{V}$	<u>ካካ††</u> ፖ	<u>ካካ†††</u> ፖ	
66 Sunrise Boulevard & International Drive/Monier Circle	Signal	Signal	<u>ካካ†††</u> ፖ	$\mathbf{x} \uparrow \uparrow \uparrow \mathbf{z} \mathbf{z}$	<u>ካካ†††</u> ፖ	<u>ካካ†††</u> ፖ	<u>ካካ††</u> ፖ	$\mathcal{A} \downarrow \downarrow \downarrow \downarrow \mathcal{L} \mathcal{L}$	<u>ካካ††</u> ፖ	<u>ካካ†††</u> ፖ	
67 Sunrise Boulevard & Douglas Road	Signal	Signal	<u>ካካ†††</u> ፖ	$\mathcal{A} \downarrow \downarrow \downarrow \downarrow \mathcal{V} \mathcal{V}$	<u>ካ</u> ካተተ ሾ	<u>ካካ†††</u> ፖ	<u>ካካተተ ሮ</u>	$\mathcal{A} \downarrow \downarrow \downarrow \downarrow \mathcal{V} \mathcal{V}$	ካካተተ ሾ	<u>ካካ†††</u> ፖ	
68 Sunrise Boulevard & Chrysanthy Boulevard	Signal	Signal	<u>*</u> * * *	$\downarrow \downarrow \checkmark \checkmark \checkmark$		ኻኻሾ	111 m	$\downarrow \downarrow \land \land$		ኻኻሾ	
69 Sunrise Boulevard & Kiefer Boulevard	Signal	Signal	stt c	4   55	*	א <i>ד</i>	ካተተ ፖ	4   55	<u>ካካተተ ፖ</u>	ヤア	NewBridge; Mather South
70 Sunrise Boulevard & Jackson Road	Signal	Signal	<u>ካካ†† ፖ</u>	$\gamma \downarrow \uparrow r r$	<u>ካካ†† ፖ</u>	<u>ካካ†† ፖ</u>	<u>ካካ†† ፖ</u>	$\gamma \uparrow \uparrow r r$	<u>ካካተተ ፖ</u>	ካካ†† ፖ	
71 Sunrise Boulevard & Florin Road	Signal	Signal	<b>n</b> ††	4↓	Y		n††	4↓	Y		
72 Sheldon Lake Drive/Sunrise Boulevard & Grant Line Road	Signal	Signal	*	レゲ	ጓተተ ፖ	ኻ† ሾ	*	んで	ካተተ ፖ	nt ř	
73 Hazel Avenue & Tributary Point Drive/US 50 WB Off-ramp	Signal	Signal	<u>ካ</u> ካ†††	$\downarrow \downarrow \downarrow \downarrow \downarrow$	۲	ላ ፖፖ	<u> ካካተተ</u>	$\downarrow \downarrow \downarrow \downarrow \downarrow$	۲	<u> ግግ</u> የ	
74 Hazel Avenue & US 50 EB Ramps	Signal	Signal	t t t	$\downarrow \downarrow \downarrow \downarrow$	<u> </u>		t t 7	$\downarrow \downarrow \downarrow \downarrow$	<u> </u>		
75 Hazel Avenue & Folsom Boulevard											
76 Prairie City Road & White Rock Road	Signal	Signal		24	ካካ††	<b>م</b> 11		24	<u> </u>	11 r	
77 Grant Line Road & White Rock Road	Signal	Signal	<b>n</b> ††	$\downarrow \downarrow \downarrow$	<u> </u>		ה††	$\downarrow \downarrow \downarrow$	<u> </u>		
78 Grant Line Road & Douglas Road	Signal	Signal	ካካ††	ערע	<u>ነ</u> ኛ		<u>ካካ†</u> †	עׂוי	ንሮ		

Note: Gray shading represents changes in traffic control or approach lanes for which the project is responsible to pay a fair share.

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Table 6.6											
CEQA Cumulative and CEQA Cumulative Plus FOUR PROJECTS Inte	rsection Geomet	rics									
	Traffic	Control		CEQA Cumulative	Lane Geometrics		CEQA Cum	ulative Plus FOUR	PROJECTS Lane	Geometrics	
Intersection	CEQA Cumulative	CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
79 Grant Line Road & Kiefer Boulevard	Signal	Signal	<u>ካካተተ ፖ</u>	~ ↓ ↓ <i>K</i>	ጓጓ† ፖ	ኻ† ፖ	<u>ካካተተ ፖ</u>	$\gamma \uparrow \uparrow \epsilon$	<u>ካካ† ፖ</u>	ጓጎ ፖ	
80 Grant Line Road & Jackson Road	Signal	Signal	<u>ካካተተ ፖ</u>	21166	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	21166	<u>ካካ††</u> ፖ	ካካ11 ፖ	
81 Watt Avenue & US-50 EB Ramps	Signal	Signal	1111 r	<u>↓</u> ↓↓↓	<u> </u>		1111 r	$\downarrow \downarrow \downarrow \downarrow$	<i>ኻኻሾሾ</i>		
82 Watt Avenue & US-50 WB Ramps	Signal	Signal	11 r <i>r</i>	~4↓↓↓		<u> </u>	11 rr	₽₹↓↓↓		<u> </u>	
83 Mayhew Rd & Folsom Blvd.	Signal	Signal	ኻኻሾ		<b>م</b> † †	<b>ħ</b> ††	ኻኻሾ		11 r	<u>n</u> ††	
84 65th Street Expy & Fruitridge Road	Signal	Signal	ካተተ ፖ	~+++	<b>ħ</b> ††	ካተተ ፖ	ካ†† ፖ	$\downarrow \downarrow \downarrow \checkmark$	<b>ħ</b> ††	ካተተ ፖ	
85 Power Inn Road & Elder Creek Road	Signal	Signal	51 ř	414	ካተተ ፖ	ጓተ ሾ	n t ř	415	ካተተ ፖ	ካ† ሾ	
86 Power Inn Road & Florin Rd	Signal	Signal	<u>ካ</u> ተዮ	211V	ntt r	<u>ה</u> ווור	<u>ካ</u> ተኛ	₽↓↓₽	511 ř	ካተተ ፖ	
87 Florin Perkins Road & Florin Rd	Signal	Signal	ካተተ ፖ	~+++	ጓተ ሾ	ካተተ ፖ	ካ†† ፖ	$\downarrow \downarrow \downarrow \checkmark$	51 ř	ካተተ ፖ	
88 Bradshaw Rd & Calvine Rd	Signal	Signal	<u>ካ</u> ካተኛ	511 <i>77</i>	<u>ካ</u> ካተተ ፖ	<u>ካ</u> ነበበ የ	<u> ካ</u> ካተ ሾ	$\gamma \uparrow \uparrow \ell \ell \ell$	<u>ካ</u> ካ††† ፖ	<u>ካካተተ ፖ</u>	
89 Vineyard Rd & Calvine Rd	Signal	Signal	*	266	ጓተ ሾ	ካ† ሾ	Ý	もたん	nt ř	ካተ ፖ	
90 Excelsior Road & Calvine Rd	Signal	Signal	ኻ↑ሾ	~† <i>r</i>	ካ† ሾ	51 ř	<u>ካ</u> ተ ፖ	215	nt ř	ጓተ ሾ	
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	Signal	<u>ካተተ ፖ</u>	414	Ŷ	ኁሾ	ካ†† ፖ	414	*	<u> ግ</u> ሾ	
92 Grant Line Rd & Calvine Rd	Signal	Signal	<b>n</b> ††	4↓	<u></u> ነ ፖ		<b>n</b> ††	4↓	ኻሾ		
93 Grant Line Rd & Dwy/Wilton Rd	Signal	Signal	<u>ካ</u> ተዮ	414	ъሾ	ኁሾ	<u>ካ</u> ተኛ	414	ኻሾ	<u> ግ</u> ሾ	
94 Grant Line Rd & Bond Rd/Wrangler Dr	Signal	Signal	51 ř	~++ <u>~</u>	٦ P	Ý	n t ř	$\downarrow \downarrow \downarrow \checkmark$	٦ P	*	
95 Florin Perkins Road & 14th Avenue	Signal	Signal	<u>ካካ†† ፖ</u>	2 I I I I I I I I I I I I I I I I I I I	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	$\downarrow \downarrow \uparrow \land \checkmark$	<u>ካካተተ ፖ</u>	ካካተተ ፖ	
96 Jackson Road & 14th Avenue	Signal	Signal		~ ~ ~	<b>ħ</b> ††	<b>م</b> 11		77	<b>ħ</b> ††	tt r	
97 Rock Creek Pkwy & Jackson Road	Signal	Signal	ኻ↑ሾ	215	ጓተ ሾ	ጓተ ሾ	ኻ↑ሾ	245	51 ř	ጓተ ሾ	
98 Aspen 1 Access Road & Jackson Road	Signal	Signal	<u> </u>		t r	<b>n</b> ††	<u></u> ነፖ		t t	<u>ה</u> † ר	
99 Rancho Cordova Pkwy & US-50 WB Ramps	Signal	Signal	ኻኻ			ኁጘ	ኻኻ			ጉኘ	
100 Rancho Cordova Pkwy & US-50 EB Ramps	Signal	Signal	1 P.P	$\downarrow \downarrow \checkmark$	*1		t r <i>r</i>	$\downarrow \downarrow \checkmark$	<b>۴</b> 7		
101 Rancho Cordova Pkwy & Easton Valley Pkwy	Signal	Signal	111 r	11177		ኻኻሾ	111 <b>r</b>	$\downarrow \downarrow \downarrow \land \land \land$		<u> </u>	
102 Rancho Cordova Pkwy & White Rock Road	Signal	Signal	<u>ካ</u> ካበበ የ	~+++ <i>r</i> ~	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	<u>ካካ††</u> ፖ	N	<u>ካካ††</u> ፖ	ካካ11 ፖ	
103 Rancho Cordova Pkwy & Douglas Road	Signal	Signal	<u>ካካተተ ፖ</u>	211 <i>22</i>	<u> </u>	<u> </u>	<u>ካካተተ ፖ</u>	5 T T 7 7	<u>ካካተተ ፖ</u>	<u>ካካ†††</u> ፖ	
104 Rancho Cordova Pkwy & Chrysanthy Boulevard/Chrysanthy Blvd	Signal	Signal	<u>ካካተተ ፖ</u>	N † † K K	<u>ካካተተ ፖ</u>	<u>ካ</u> ካተተ ፖ	<u>ካካተተ ፖ</u>	21166	ካካተተ ፖ	ካካተተ ፖ	

Note: Gray shading represents changes in traffic control or approach lanes for which the project is responsible to pay a fair share.

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CEQA Cumulative and CEQA Cumulative Plus FOUR PROJECTS In	ntersection Geome	trics								Coomotrico	
	Iraπic	Control		CEQA Cumulative	Lane Geometrics	-	CEQA Cum	ulative Plus FOUR	PROJECTS Lane	Geometrics	Proiect(s)
Intersection	CEQA Cumulative	CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Responsible for Change
105 Rancho Cordova Pkwy & Kiefer Blvd	Signal	Signal	<u>ካ</u> ሰፖ	215	ካ† ፖ	ካ† ፖ	ኻ↑ሾ	245	ካ† ፖ	ካ† ፖ	
106 Rancho Cordova Pkwy & Grant Line Road	Signal	Signal		24	nt t	<b>*</b> * *		<u>ک</u> الي	<b>n</b> ††	11 r	
107 Americanos Blvd & White Rock Road	Signal	Signal	<u> </u>		<b>ب</b> † †	<u>ካ</u> ካ††	<u></u> ነ ፖ		11 r	<u>ካ</u> ካ††	
108 Americanos Blvd & Douglas Road	Signal	Signal	<u>ካ</u> †ፖ	~↓ <i>K</i>	<u>ካተተ</u> ኛ	511 r	ኻ↑ሾ	2 L L	ካተተ ፖ	ካተተ ፖ	
109 Americanos Blvd & Chrysanthy Blvd	Signal	Signal	<u> ጉ</u> ሾ	45	ካ† ፖ	ካሾ	٦ř	45	ካ† ፖ	ኻሾ	
110 Americanos Blvd & Kiefer Blvd	Signal	Signal		Α.	4	ŕ		А	7	ŕ	
111 Grant Line Road & Chrysanthy Blvd	Signal	Signal	ካተተ ፖ	NTTRR	ካሾ	ካ† ፖ	ካተተ ፖ	21166	ኻሾ	ጓ† ፖ	
112 Hazel Avenue & Easton Valley Pkwy	Signal	Signal	<u></u> ነተኛ	2155	<u>ካካ†† ፖ</u>	ካተተ ፖ	<u>ኻ</u> ↑ ፖ	x) † 77 r	<u>ካካተተ ፖ</u>	ካተተ ፖ	
200 Excelsior Road & Collector WJ-1/Collector JT-1		Signal					5 t ř	415	nt c	nt c	West Jackson; Jackson Township
201 Excelsior Road & Collector WJ-2/Collector JT-2		Signal					ካተሥ	415	nt e	st c	West Jackson; Jackson Township
202 W Collector MS-1 & Kiefer Boulevard		Signal						25	<u>ה</u> ה††	t r	NewBridge; Mather South
203 Northbridge Dr & Kiefer Boulevard		Signal					<i>ካሮ</i>		t r	n t t	NewBridge; Mather South
204 E Collector MS-1 & Kiefer Boulevard		Signal						24	<b>n</b> ††	tt r	NewBridge; Mather South
300 Collector WJ-3 & Jackson Road		Signal					<u> </u>		t r	<u>n</u> ††	West Jackson
301 Collector WJ-4 & Jackson Road		Signal					<u>ካ</u> ሰፖ	245	511 ř	511 ř	West Jackson
302 Happy Lane & Jackson Road		Signal					<u>ካካ††                                  </u>	$\rightarrow \uparrow \uparrow \land \land$	ካካተተ ፖ	<u> </u>	West Jackson
303 Rock Creek Pkwy & Jackson Road		Signal					ኻ↑ሾ	245	ካካተተ ሾ	ካካተተ ሾ	West Jackson
304 Collector WJ-5 & Jackson Road		Signal					<u>ካ</u> ሰኛ	214	511 ř	511 ř	West Jackson
305 Collector WJ-6 & Jackson Road		Signal					<u>ግ</u> ሰ ፖ	245	stt r	ካተተ ሾ	West Jackson
306 Excelsior Road & Collector WJ-6		Signal					<b>n</b> †	4↓	ንሮ		West Jackson
307 S. Watt Avenue & Rock Creek Pkwy		Signal					1 T Y	$\uparrow \uparrow \uparrow \land \sim$		ን ሮ	West Jackson
308 Hedge Avenue & Rock Creek Pkwy WB		Roundabout					7	4		*	West Jackson
309 Hedge Avenue & Rock Creek Pkwy EB		Roundabout					1 P	44	4 r		West Jackson
310 Mayhew Road & Rock Creek Pkwy WB		Roundabout					1 1	4↓		*	West Jackson

CEQA Cumulative and CEQA Cumulative Plus FOUR PROJECTS In	tersection Geome	trics									
	Traffic	Control		CEQA Cumulative	e Lane Geometrics		CEQA Cum	<b>D</b>			
Intersection	CEQA Cumulative	CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
311 Mayhew Road & Rock Creek Pkwy EB		Roundabout					1 t	44	マヤ		West Jackson
312 Bradshaw Road & Rock Creek Pkwy		Signal					511 ř	4112	ካ† ፖ	ካ† ፖ	West Jackson
313 Collector WJ-7 & Rock Creek Pkwy		Signal					*	4	Ý	Ý	West Jackson
314 Vineyard Road/Happy Lane & Rock Creek Pkwy		Signal					51 ř	414	ካ† ፖ	<u>ካ† ፖ</u>	West Jackson
315 Douglas Road & Rock Creek Pkwy		Signal					<b>n</b> ††	4↓	<u>ን</u> ፖ		West Jackson
316 Bradshaw Road & Collector WJ-8		Signal					11 ř	$\uparrow \uparrow \uparrow \uparrow$		<u></u> ንፖ	West Jackson
317 Bradshaw Road & Collector WJ-9		Signal					11 r	$\downarrow \downarrow \downarrow \uparrow r$		<u></u> ንፖ	West Jackson
318 Bradshaw Road & Mayhew Road		Signal					<u>ካካተተ ፖ</u>	~+++~~	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	West Jackson
319 Bradshaw Road & Collector WJ-10		Signal					<b>n</b> †††	411	<u>ን</u> ፖ		West Jackson
320 Bradshaw Road & Collector WJ-11		Signal					<b>n</b> †††	411	<u>ን</u> ፖ		West Jackson
321 Collector WJ-12 & Fruitridge Road		Signal					ኻ↑ሾ	215	nt ř	nt ř	West Jackson
322 Mayhew Road & Collector WJ-13		Signal					<b>n</b> ††	4↓	<u>ን</u> ፖ		West Jackson
323 Collector WJ-14 & Kiefer Boulevard		Signal					<b>٦</b> ٢	214	<u>ה</u> ור ד	<u>ה</u> וד לי	West Jackson
324 Collector WJ-15 & Kiefer Boulevard		Signal						21	<u>55111</u>	11 r	West Jackson
325 Douglas Road/Shopping Center Dwy & Kiefer Boulevard		Signal					<u> </u>	21 K	5111 r	<u>ካካተተ ፖ</u>	West Jackson
326 Happy Lane & Mayhew Road		Roundabout					1 t	4↓	ንሮ		West Jackson
327 Vineyard Road & Elder Creek Road		Signal					<u>ካካተተ ፖ</u>	211 <i>2</i> 2	<u>ካካተተ ፖ</u>	<u>ካካተተ ፖ</u>	West Jackson
328 Vineyard Road & Florin Road	Signal	Signal	ኻኻሾ		<b>۲</b>	<b>ካ</b> †	ካካተተ ፖ	21166	ካካ† ፖ	<u>ካካተተ ፖ</u>	West Jackson
400 Collector JT-3 & Jackson Road		Signal						25	<u> </u>	11 r	Jackson Township
401 Tree View Lane & Jackson Road		Signal						244	<u>ካካ</u> ††	11 r	Jackson Township
402 Collector JT-4 & Jackson Road		Signal						25	<u>n</u> ††	t tr	Jackson Township
403 Tree View Lane & Collector JT-5		Signal					ካተኛ	415	ካ† ፖ	ካ† ፖ	Jackson Township
404 Tree View Lane & Collector JT-6		Signal					ካተኛ	415	ካ† ፖ	ካ† ፖ	Jackson Township
405 Tree View Lane & Collector JT-1		Signal					ካተዮ	415	ካተ ፖ	ካ† ፖ	Jackson Township
406 Tree View Lane & Kiefer Boulevard		Signal					ኻኻሾ		11 r	<u> </u>	Jackson Township
407 HS/MS Dwy & Kiefer Boulevard		Signal					ንሮ		1 ř	511	Jackson Township

Table 6.6											
CEQA Cumulative and CEQA Cumulative Plus FOUR PROJECTS Int	tersection Geomet	rics									
	Traffic	Control		CEQA Cumulative	Lane Geometrics		CEQA Cum				
Intersection	CEQA Cumulative	CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change
500 Rockbridge Dr & Jackson Road		Signal						25	<b>n</b> ††	t tr	NewBridge
501 Zinfandel Drive & N Bridgewater Dr		Signal					1 r	$\downarrow \downarrow \checkmark$		<u></u> ነፖ	NewBridge
502 Zinfandel Drive & S Bridgewater Dr		Signal					<u>ካ</u> ተኛ	415	ካ† ፖ	ጓጎ ፖ	NewBridge
600 Zinfandel Drive & Collector MS-2		Signal					t tr	$\downarrow \downarrow \checkmark$		<u></u> ነፖ	Mather South
601 Zinfandel Drive & Collector MS-3		Signal					t Y	$\downarrow \downarrow \checkmark$		ኻሾ	Mather South
602 Zinfandel Drive & Collector MS-4		Signal					t tr	$\downarrow \downarrow \checkmark$		<u></u> ነፖ	Mather South
603 Collector MS-5 & Collector MS-2		All-way stop					*	*	Ý	Ý	Mather South
604 Collector MS-5 & Collector MS-3		Two-way stop					*	*	Ý	*	Mather South
605 Collector MS-5 & Collector MS-4		All-way stop					*	*	Ý	*	Mather South
606 Collector MS-5 & W Collector MS-1/E Collector MS-1		All-way stop						25	<b>ħ</b> †	1 r	Mather South

Table 6	Fable 6.7: CEQA Cumulative Plus FOUR PROJECTS Peak Hour Freeway Mainline Level of Service												
Direc-			CEQA C	umulative		CEQ	A Cumula PROJ	tive Plus F ECTS	OUR				
tion	Location	AM Pea	k Hour	PM Pea	k Hour	AM Pea	k Hour	PM Pea	k Hour				
		Volume	LOS	Volume	LOS	Volume	LOS	Volume	LOS				
East-	SR 99 / SR 51 to Stockton Boulevard	8,778	D	8,638	D	9,385	D	8,839	D				
bound	Stockton Boulevard to 59th Street	8,188	F	7,819	F	8,702	F	7,978	F				
US 50	59th Street to 65th Street	7,646	D	7,343	D	8,152	Е	7,464	D				
	65th Street to Howe Avenue	8,029	D	7,667	D	8,350	D	7,706	D				
	Howe Avenue to Watt Avenue	7,220	С	6,672	С	7,399	С	6,603	С				
Watt Avenue to Bradshaw Road9,656F8,982E9,963F9,077E													
Bradshaw Rd to Mather Field Rd         9,485         F         9,052         C         9,496         F         9,069         C													
	Mather Field Rd to Zinfandel Drive	9,094	D	8,767	D	9,132	D	8,895	D				
	Zinfandel Drive to Sunrise Blvd	6,314	С	6,370	F	6,384	С	6,543	F				
	Sunrise Bl to Rancho Cordova Pkwy	5,809	С	5,878	F	5,850	С	6,056	F				
	Rancho Cordova Pkwy to Hazel Ave	7,142	D	6,636	F	7,229	D	6,892	F				
West-	Hazel Ave to Rancho Cordova Pkwy	5,378	В	5,162	С	5,639	В	5,168	С				
bound	Rancho Cordova Pkwy to Sunrise Bl	6,919	С	4,366	В	7,087	С	4,367	В				
US 50	Sunrise Blvd to Zinfandel Drive	8,607	D	5,233	В	8,817	D	5,341	В				
	Zinfandel Drive to Mather Field Rd	9,513	D	7,406	С	9,550	D	7,364	С				
	Mather Field Rd to Bradshaw Road	9,597	F	8,720	D	9,505	F	8,509	D				
	Bradshaw Road to Watt Avenue	9,008	F	7,882	D	8,892	F	8,155	Е				
	Watt Avenue to Howe Avenue	7,897	F	5,892	F	7,574	F	6,154	F				
	Howe Avenue to 65th Street	8,782	F	8,070	F	8,880	F	8,388	F				
	65th Street to 59th Street	8,822	F	7,978	F	8,932	F	8,324	F				
	59th Street to Stockton Boulevard	9,698	D	8,294	F	9,795	D	8,712	F				
	Stockton Boulevard to SR 99 / SR 51         10,176         E         9,674         F         10,262         E         9,963         F												
Bold val	Bold values denote level of service "F" conditions.												
Red sha	Red shaded values indicate project impacts.												
Source:	Source: DKS Associates, 2014.												

#### 6.4.4 CEQA Cumulative Plus FOUR PROJECTS Pedestrian and Bicycle Facility Impacts

The FOUR PROJECTS would not remove any existing or planned pedestrian facility that is planned in the Bikeway Master Plan. The FOUR PROJECTS would add pedestrian and bicycle demands within the FOUR PROJECTS site and to and from nearby land uses. Specific information on improvements to on- and off-site bicycle and pedestrian facilities is not available at this time. Because the FOUR PROJECTS would add demand for pedestrian and bicycle facilities that may not be available, the impact of the FOUR PROJECTS on pedestrian and bicycle circulation is potentially significant.

Table 6.	8: CEQA Cumulative Plus	FOUR PROJECTS P	eak Hour	Freewa	y Ramp J	unction	/Weaving	Level	of Service		
			C	EQA C	umulative		CEQA Cumulative Plus FOUR PROJECTS				
Direc- tion	Location	Junction Type	A.M. Peak Hour		P.M. Peak Hour		A.M. Peak Hour		P.M. Peak Hour		
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	
East- bound	Northbound 65th Street Slip Entrance	Waaya	946	F	778	F	953	T	701	F	
US 50	Howe Avenue / Hornet Drive Exit	weave	2,093	Г	2,125	Г	2,176	r	2,265	ſ	
	Southbound Howe Avenue Loop Entrance	One-Lane Merge	754	D	1,336	D	730	D	1,291	D	
	Northbound Howe Avenue Slip Entrance	One-Lane Merge	619	D	541	D	523	D	564	D	
	Watt Avenue Exit	Two-Lane Diverge	1,523	В	1,707	В	1,495	В	1,535	Α	
	Southbound Watt Avenue Loop Entrance	One-Lane Merge	1,612	D	1,365	С	1,506	D	1,218	С	
	Northbound Watt Avenue Slip Entrance	One-Lane Merge	675	D	591	С	700	D	656	С	
	Bradshaw Road Exit	Two-Lane Diverge	2,068	F	1,624	В	2,336	F	1,826	C	
	Southbound Bradshaw Road Loop Entrance	One-Lane Merge	270	D	426	D	257	D	500	D	
	Northbound Bradshaw Road Slip Entrance	One-Lane Merge	1,480	D	1,027	D	1,492	D	1,152	С	

	CEQA Cumulative Plus F	OUR PROJECTS Pea	Table 6.8 ak Hour F	3 reeway	Ramp Ju	nction/V	Veaving I	Level of	Service		
			C	EQA C	umulative		CEQA Cumulative Plus FOUR PROJECTS				
Direc- tion	Location	Junction Type	A.M. F Hou	Peak Ir	eak P.M. P r Hou		A.M. Peak Hour		P.M. P Hou	eak r	
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	
	Mather Field Road Exit	Two-Lane Diverge	1,493	В	1,536	В	1,480	В	1,502	В	
	Southbound Mather Field Road Loop Entrance	One-Lane Merge	246	С	211	С	242	С	168	С	
	Northbound Mather Field Road Slip Entrance	Weave	434	F	897	F	472	F	1,061	F	
	Zinfandel Drive Exit		3,088		1,866		3,084		1,811		
	Southbound Zinfandel Drive Loop Entrance	One-Lane Merge	186	С	178	С	183	С	148	С	
	Northbound Zinfandel Drive Slip Entrance	Lane Addition	648	А	707	В	712	В	783	В	
	Sunrise Boulevard Exit	Major Diverge	1,903	C	2,318	С	1,926	С	2,406	С	
	Sunrise Boulevard Entrance	Lane Addition / Weave	1,228	C	1,134	C	1,192	В	1,168	C	
	Rancho Cordova Parkway Exit	Major Diverge / Weave	367		780	U	322	С	776	U	
	Rancho Cordova Parkway Entrance	Weave	1,778	F	1,742	F	1,764	F	1,811	F	
	Hazel Avenue Exit		1,913		2,615		1,943		2,706		

	CEQA Cumulative Plus F	OUR PROJECTS Pea	Table 6.8 ak Hour Fi	s reeway	Ramp Ju	nction/V	Veaving I	Level of	Service		
			C	EQA C	umulative		CEQA Cumulative Plus FOUR PROJECTS				
Direc- tion	Location	Junction Type	A.M. Peak Hour		P.M. Peak Hour		A.M. Peak Hour		P.M. Peak Hour		
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	
	Hazel Avenue Entrance	Waava	1,159	D	2,167	F	1,063	D	2,099	D	
	Aerojet Road Exit	weave	593	D	200	Г	606	D	180	D	
West-	Hazel Avenue Exit	Two-Lane Diverge	1,098	В	1,027	В	1,043	В	1,045	С	
bound US 50	Northbound Hazel Avenue Loop Entrance	One-Lane Merge	72	В	434	В	93	В	434	С	
	Southbound Hazel Avenue Slip Entrance	Waaya	2,300	F	2,265	F	2,369	1	2,306	T	
	Rancho Cordova Parkway Exit	weave	1,816	F	2,224	Г	1,868	ſ	2,206	ľ	
	Rancho Cordova Parkway Entrance	Lane Addition / Weave	1,455	C	1,181	В	1,380	C	1,128	В	
	Sunrise Boulevard Exit	Major Diverge / Weave	728	C	739	С	744	C	713	С	
	Northbound Sunrise Boulevard Loop Entrance	Lane Addition	172	А	274	А	172	А	218	А	
	Southbound Sunrise Boulevard Slip Entrance	Lane Addition	2,323	F	1,517	С	2,366	F	1,653	С	
	Zinfandel Drive Exit	One-Lane Diverge	1,395	E	1,173	D	1,372	E	1,257	D	

	CEQA Cumulative Plus F	OUR PROJECTS Pea	Table 6.8 ak Hour Fi	3 reeway	Ramp Ju	nction/V	Veaving I	Level of	Service		
			C	EQA C	umulative		CEQA Cumulative Plus FOUR PROJECTS				
Direc- tion	Location	Junction Type	A.M. Peak Hour		P.M. Peak Hour		A.M. Peak Hour		P.M. Peak Hour		
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	
	Northbound Zinfandel Drive Loop Entrance	Lane Addition	897	С	1,439	D	790	С	1,321	С	
	Southbound Zinfandel Drive Slip Entrance	One-Lane Merge	1,587	D	646	В	1,401	D	656	В	
	Mather Field Road Exit	One-Lane Drop	1,344	E	835	С	1,564	D	953	С	
	Northbound Mather Field Road Loop Entrance	One-Lane Merge	623	С	1,187	С	510	С	1,189	С	
	Southbound Mather Field Road Slip Entrance	One-Lane Merge	306	С	528	С	420	С	434	В	
	Bradshaw Road Exit	Two-Lane Diverge	1,555	C	1,753	В	1,778	C	1,818	В	
	Northbound Bradshaw Road Loop Entrance	One-Lane Merge	993	F	912	D	1,336	F	1,616	D	
	Southbound Bradshaw Road Slip Entrance	One-Lane Merge	385	F	862	D	392	F	868	D	
	Watt Avenue Exit	Major Diverge	1,558	Е	1,109	D	1,417	Е	980	D	
	Northbound Watt Avenue Loop Entrance	One-Lane Merge	764	D	1,128	D	706	D	1,064	D	
	Southbound Watt Avenue Slip Entrance	Lane Addition	1,127	D	1,062	С	850	D	967	D	
	Howe Avenue Exit	Major Diverge	1,885	Е	1,701	E	1,659	Е	1,725	D	

	CEQA Cumulative Plus F	OUR PROJECTS Pea	Table 6.8 ak Hour Fi	reeway	Ramp Ju	nction/V	Veaving I	Level of	Service		
			C	EQA C	umulative		CEQA	Cumula PROJ	itive Plus F IECTS	OUR	
Direc- tion	Location	Location Junction Type			P.M. Peak Hour		A.M. Peak Hour		P.M. Peak Hour		
			Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	Ramp Volume	LOS	
	Northbound Howe Avenue Loop Entrance	One-Lane Merge	598	D	542	D	599	D	548	D	
	Southbound Howe Avenue Slip Entrance	One-Lane Merge	678	F	708	С	786	F	637	С	
Bold val	ues denote level of service "F	" conditions.									
Red sha	ded values indicate project in	pacts.									
Source:	Source: DKS Associates, 2014.										
		Availab	le Storage	Length		Maximu	m Queue	Length (fe	et / lane)		
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		•	(feet / lane	)	Al	M Peak Ho	our	PN	I Peak Ho	ur	
Direction	US 50 Exit Ramp	L	Т	R	L	Т	R	L	Т	R	
Eastbound	Howe Avenue	765	-	765	108	-	618	129	-	325	
US-50	Watt Avenue	1,500	_	1,500	193	-	376	352	-	346	
	Bradshaw Road	1,250	_	1,250	137	-	505	153	_	281	
	Mather Field Road	1,385	_	1,385	126	-	365	205	-	427	
	Zinfandel Drive	1,025	1,025	1,025	157	1,437	1,300	402	379	963	
	Sunrise Boulevard	1,695	_	1,695	119	-	211	192	-	114	
	Rancho Cordova Pkwy.	-	_	1,850	-	-	237	-	-	409	
	Hazel Avenue	1,310	_	1,310	307	-	23	720	-	19	
Westbound	Hazel Avenue	1,9	995	1,995	2	87	917	31	0	719	
US-50	Rancho Cordova Pkwy	1,065	_	-	1,677	-	-	1,236	_	_	
	Sunrise Boulevard	1,540	_	1,540	58	-	152	15	-	350	
	Zinfandel Drive	1,065	_	1,065	717	-	134	140	-	203	
	Mather Field Road	1,335	_	1,335	330	-	301	333	-	328	
	Bradshaw Road	1,330	_	1,330	198	-	136	330	-	71	
	Watt Avenue	1,480	_	1,480	256	-	814	199	-	696	
	Howe Avenue	1,355	1,355	1,355	86	412	671	202	412	668	

L = left turn movement, T = through movement, R = right turn movement

Source: DKS Associates, 2014.

		Availab	ole Storage	Length		Maximu	m Queue	Length (fe	et / lane)	
			(feet / lane	)	AI	M Peak Ho	our	PN	I Peak Ho	ur
Direction	US 50 Exit Ramp	L	Т	R	L	Т	R	L	Т	R
Eastbound	Howe Avenue	765	-	765	129	-	893	162	-	454
US-50	Watt Avenue	1,500	_	1,500	210	-	450	239	-	310
	Bradshaw Road	1,250	-	1,250	172	-	1,248	118	-	727
	Mather Field Road	1,385	-	1,385	161	-	389	257	-	323
	Zinfandel Drive	1,025	1,025	1,025	156	1,403	1,298	614	340	546
	Sunrise Boulevard	1,695	_	1,695	124	-	192	223	-	100
	Rancho Cordova Pkwy.	-	_	1,850	-	-	358	-	-	406
	Hazel Avenue	1,310	-	1,310	306	-	29	814	-	22
Westbound	Hazel Avenue	1,9	995	1,995	30	08	843	33	32	710
US-50	Rancho Cordova Pkwy	1,065	_	-	1,527	-	-	1,683	-	-
	Sunrise Boulevard	1,540	-	1,540	60	-	153	31	-	340
	Zinfandel Drive	1,065	-	1,065	485	-	71	188	-	177
	Mather Field Road	1,335	-	1,335	546	-	431	313	-	363
	Bradshaw Road	1,330	-	1,330	336	-	122	363	-	65
	Watt Avenue	1,480	-	1,480	269	-	754	219	-	667
	Howe Avenue	1,355	1,355	1,355	43	412	629	208	412	810
<b>Red shaded</b> L = left turn rSource: DK	values indicate project impa novement, $T =$ through mo	acts. vement, R	= right turr	n movemen	t					

### 6.4.5 CEQA Cumulative Plus FOUR PROJECTS Transit System Impacts

Public transit would not be provided to the sites of the FOUR PROJECTS under CEQA Cumulative scenario without development of the FOUR PROJECTS. In the preparation of this analysis, a transit system to serve the FOUR PROJECTS was developed (see Section 3.1.2.3). However, the timing and implementation of the transit system are uncertain at this time. The FOUR PROJECTS would increase demands for public transit facilities. Therefore, the impact of the FOUR PROJECTS on the transit system is potentially significant.

### 6.4.6 CEQA Cumulative Plus FOUR PROJECTS Functionality Impacts

Table 6.11 summarizes the results of the rural roadway segment functionality analysis. Figure 6.7 illustrates the resultant functionality impacts. The table includes the number of lanes assumed with the implementation of the FOUR PROJECTS, which in many cases is greater than the number of lanes in the existing condition. The shaded table cells under the "Travel Lanes" heading illustrates new roadways and widened roadways that are assumed part of the FOUR PROJECTS. The "Substandard?" heading indicates whether or not a roadway meets the County standards of 12-foot lanes and 6-foot shoulders. If the FOUR PROJECTS make improvements to a roadway segment such as widening, they would be required to reconstruct the entire substandard roadway segment to County standards. The shaded table cells under the "Functionality Impact?" heading indicate those locations with a functionality impact.

As stated above, the traffic analysis assumed that the FOUR PROJECTS would construct a number of travel lanes on roadway segments that are internal to or on the boundary of the FOUR PROJECTS, and the entire roadway segment would be reconstructed to County standards at that time. The timing of implementation of such additional traffic lanes on these internal or boundary roadway segments will affect whether or not impacts would exist at some time prior to full build out of the FOUR PROJECTS.

# Table 6.11CEQA Cumulative Plus FOUR PROJECTS Functionality Impacts

		Seg	ment		]	Existing Sub	standard Roadwa	ys	CE	QA Cumulativ	ve + FOUR PR	OJECTS
ID	Roadway	From	То	Jurisdiction	Travel	Pavement	Substandard? <sup>1</sup>	Existing	Travel	Facility	Forecasted	Functionality
					Lanes	(ft)	5 ub 5 uni u i	Volume	Lanes	Туре	Volume	Impact? <sup>2</sup>
15	Douglas Rd	Mather Blvd	Zinfandel Dr	County	2	23	Yes	6,635	4	Arterial M	35,330	Yes <sup>3</sup>
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	Rancho Cordova/County	2	23	Yes	8,369	6	Arterial M	48,540	Yes <sup>3</sup>
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	County	2	20	Yes	740	4	Arterial M	15,420	Yes <sup>3</sup>
20	Eagles Nest Rd	Jackson Rd	Florin Rd	County	2	<21	Yes	517	2	Arterial M	9,790	Yes
21	Eagles Nest Rd	Florin Rd	Grant Line Rd	County	2	<21	Yes	189	2	Arterial M	5,230	No
25	Elder Creek Rd	South Watt Ave	Hedge Ave	County	2	23	Yes	5,576	4	Arterial M	54,480	Yes <sup>3</sup>
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	County	2	23	Yes	5,797	4	Arterial M	43,210	Yes <sup>3</sup>
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	County	2	23	Yes	5,355	4	Arterial M	25,620	Yes <sup>3</sup>
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd	County	2	23	Yes	2,158	3	Arterial M	31,620	Yes <sup>3</sup>
30	Excelsior Rd	Kiefer Blvd	Jackson Rd	County	2	22	Yes	3,716	2	Arterial M	30,400	Yes
31	Excelsior Rd	Jackson Rd	Elder Creek Rd	County	2	<21	Yes	5,075	3	Arterial M	41,380	Yes <sup>3</sup>
32	Excelsior Rd	Elder Creek Rd	Florin Rd	County	2	<21	Yes	4,203	3	Arterial M	12,900	Yes <sup>3</sup>
33	Excelsior Rd	Florin Rd	Gerber Rd	County	2	<21	Yes	5,423	2	Arterial M	14,300	Yes
34	Excelsior Rd	Gerber Rd	Calvine Rd	County	2	<21	Yes	4,229	2	Arterial M	9,110	Yes
39	Florin Rd	South Watt Ave	Hedge Ave	County	2	22	Yes	7,718	4	Arterial M	13,280	Yes <sup>3</sup>
40	Florin Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	6,312	4	Arterial M	14,700	Yes <sup>3</sup>
41	Florin Rd	Mayhew Rd	Bradshaw Rd	County	2	22	Yes	6,317	4	Arterial M	43,130	Yes <sup>3</sup>
42	Florin Rd	Bradshaw Rd	Excelsior Rd	County	2	22	Yes	3,478	4	Arterial M	29,540	Yes <sup>3</sup>
43	Florin Rd	Excelsior Rd	Sunrise Blvd	County	2	22	Yes	3,835	2	Arterial M	18,580	Yes
48	Fruitridge Rd	South Watt Ave	Hedge Ave	City of Sacramento/ County	2	22	Yes	2,890	3	Arterial M	24,970	Yes <sup>3</sup>
49	Fruitridge Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	1,790	4	Arterial M	27,150	Yes <sup>3</sup>
50	Grant Line Rd	White Rock Rd	Douglas Rd	Rancho Cordova/County	2	22	Yes	7,189	4	Arterial M	40,500	Yes <sup>3</sup>
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	County	2	22	Yes	4,635	4	Arterial M	51,220	Yes <sup>3</sup>
59	Hedge Ave	Jackson Rd	Fruitridge Rd	County	2	22	Yes	3,061	2	Arterial M	11,810	Yes
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	City of Sacramento/County	2	22	Yes	3,737	2	Arterial M	9,680	Yes
61	Hedge Ave	Elder Creek Rd	Florin Rd	County	2	22	Yes	2,722	2	Arterial M	22,180	Yes

Red text with light gray shading indicate project impacts.



### **Table 6.11 CEQA Cumulative Plus FOUR PROJECTS Functionality Impacts**

		Seg	ment		]	Existing Subs	standard Roadway	y <b>s</b>	CEO	QA Cumulativ	e + FOUR PR	OJECTS
ID	Roadway	From	То	Jurisdiction	Travel Lanes	Pavement (ft)	Substandard? <sup>1</sup>	Existing Volume	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Functionality Impact? <sup>2</sup>
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	County	2	26	Yes	13,030	6	Arterial M	60,480	Yes <sup>3</sup>
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	County	2	26	Yes	10,478	4	Arterial M	62,780	Yes <sup>3</sup>
74	Kiefer Blvd	Florin Perkins Rd	South Watt Ave	City of Sacramento/County	2	22	Yes	4,616	2	Arterial M	5,630	No
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	County	2	22	Yes	4,618	6	Arterial M	56,300	Yes <sup>3</sup>
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	County	2	22	Yes	656	3	Arterial M	37,390	Yes <sup>3</sup>
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd	County	2	22	Yes	6,751	2	Res Collector F	15,750	Yes
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	County	2	22	Yes	1,616	4	Arterial M	52,530	Yes <sup>3</sup>
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	Rancho Cordova/County	2	20	Yes	2,490	4	Arterial M	54,910	Yes <sup>3</sup>
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	County	2	<21	Yes	2,848	4	Arterial M	31,690	Yes <sup>3</sup>

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

<sup>2</sup> Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT.

<sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.

Red text with light gray shading indicate project impacts.





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### FIGURE 6.7 CEQA CUM PLUS FOUR PROJECTS FUNCTIONALITY IMPACTS

## Legend

Substandard Roadways

Functionality Impact

Functionality Impact if Roadway is Not Already Improved

Cities

Mather Airport



#### 6.5 MITIGATION

#### 6.5.1 CEQA Cumulative Plus FOUR PROJECTS Roadway Segment Mitigation

Table 6.12 summarizes the results of the operations analysis for the study area roadway segments with mitigation. Where feasible, the number of roadway lanes was increased to mitigate the impact. However, the increased number of lanes could not exceed the maximum General Plan designations of the appropriate jurisdictions. The shaded table cells under the "Travel Lanes" and "Facility Type" headings illustrate widened roadways for mitigation purposes, which would be the responsibility of the FOUR PROJECTS to fund. The NewBridge project would contribute a fair share. The shaded table cells under the "Level of Service" heading indicate those locations that would continue to have LOS impacts after mitigation. The table also includes the constraint that precluded full mitigation of the LOS impact.

The "LOS Impact with Mitigation?" column shows whether there is still an LOS impact after the mitigation measure is applied. In other words, this column shows whether a mitigation measure successfully mitigates the impact or not. In several locations where the improvements allowed under the General Plan would not mitigate an LOS impact, the County has proposed alternative mitigation measures, which are shown in the "Alternative Mitigation" column. These alternative mitigation measures will either fully mitigate the impact or substantially reduce the level of impact.

#### 6.5.2 CEQA Cumulative Plus FOUR PROJECTS Intersection Mitigation

Tables 6.13 and 6.14 summarize the results of the operations analysis for the study area intersections with mitigation. However, the increased number of lanes on each approach does not exceed the County's standard number of approach lanes. Shaded table cells in Table 6.14 indicate those locations where changes in traffic control and / or number of approach lanes by type have been made to mitigate impacts, which would be the responsibility of the FOUR PROJECTS to fund. The NewBridge project would contribute a fair share. The shaded table cells in Table 6.13 under the "Level of Service" heading indicate those locations with an LOS impact after mitigation. Table 6.14 also identifies those intersections that would continue to have LOS impacts after mitigation, along with the constraint that precluded full mitigation. Detailed analysis information is included in the technical appendix.

The "LOS Impact with Mitigation?" column shows whether there is still an LOS impact after the mitigation measure is applied. In other words, this column shows whether a mitigation measure successfully mitigates the impact or not. In several locations where the LOS impact could not be mitigated by implementing the County's standard number of approach lanes, the County has proposed alternative mitigation measures, which are shown in the "Alternative Mitigation" column. These generally include providing additional turn lanes, carrying an additional through lane past the intersection, or designating the intersection as a High Capacity Intersection. These alternative mitigation measures will either fully mitigate the impact or substantially reduce the level of impact.

#### High Capacity Intersections

Three intersections are currently designated as "High Capacity Intersections" on the County's General Plan: Watt Avenue & Folsom Boulevard, Watt Avenue & Kiefer Boulevard, and Watt Avenue & Jackson Road. At two intersections on Bradshaw Road where an LOS impact could not be mitigated by implementing the County's standard number of approach lanes, the County has proposed alternative mitigation measures by designating those two intersections as High Capacity Intersections: Bradshaw Road & Mayhew Road and Bradshaw Road & Jackson Road.

A high capacity intersection would utilize special treatments to increase the capacity of the intersection so as to reduce congestion and travel delay. Since each intersection could have unique travel movements, volumes and existing context sensitive conditions, the special treatments utilized at each high capacity intersection will be selected to meet the specific needs of each intersection. The range of special treatments is quite wide, ranging from the restriction of certain turning movements to various combinations that could include grade separating certain movements. While the field of traffic engineering is ever expending and evolving resulting in the use of new technologies and treatments, special treatments such as the following could be utilized at a high capacity intersection:

- Restricting turning movements
- Median U-turns
- Roundabouts
- Split intersections
- Quadrant roadway intersections
- Bowtie intersections
- Directional flyovers
- Center turn overpass
- Grade separated Roundabout
- Diverging diamond grade separation
- Compact diamond grade separation
- Single point urban grade separation
- Traditional urban grade separation

The County has conducted conceptual engineering to define potential improvements at the three study area intersections on Watt Avenue that are currently designated as "High Capacity Intersections" on the County's General Plan. These are:

• At the Watt Avenue & Folsom Boulevard intersection, the County proposes an ultimate configuration involving grade separation of the northbound and southbound through movements of Watt Avenue. Access to and from Folsom Boulevard would be accomplished via on and off-ramps from the left lanes of Watt Avenue to a single signalized intersection. A bus rapid transit (BRT) lane along Watt Avenue would also intersect Folsom Boulevard at the traffic signal. This design is consistent with the recommendations of the South Watt Area Transportation Study (SWATS) dated November 1, 2002 and approved by the Board of Supervisors on November 26, 2002, and with the planning study for the *State Route 16 (Jackson Road) Corridor Study* (Fehr

& Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.

- At the Watt Avenue & Kiefer Boulevard intersection, the County proposes a tight diamond interchange as the ultimate improvement. The through movements (and BRT lane) on Watt Avenue would be grade separated from Kiefer Boulevard. Access to and from Kiefer Boulevard would be accomplished via on and off-ramps at two signalized intersections along Kiefer Boulevard. This design is proposed in the planning study prepared for *State Route 16 (Jackson Road) Corridor Study* (Fehr & Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.
- At the Watt Avenue & Jackson Road intersection, the County proposes a standard sixby-six signalized intersection (two left-turn lanes, three through lanes, and one right-turn lane, on each approach) with three modifications. 1) The southbound left-turn movement would be grade separated; 2) The westbound right-turn movement would be grade separated; and 3) Three northbound left-turn lanes are proposed. This configuration represents an enhanced version of Alternative 6 in the planning study prepared for *State Route 16 (Jackson Road) Corridor Study* (Fehr and Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.

At the two new proposed "High Capacity Intersections" along Bradshaw Road, the ultimate configurations have not been defined. A number of improvement options involving one or more of the special treatments identified above could be defined that would mitigate the LOS impact at these locations. Since each of these intersections have unique travel movements, volumes and existing context sensitive conditions (potential environmental issues, right-of-way, physical constraints, etc.), the special treatments utilized at each location will need to be studied to select the treatments that mitigate the LOS impact, while avoiding or minimizing other impacts. At Bradshaw Road & Mayhew Road, heavy southbound right turns and westbound left turns suggest that a combination of triple left-turn lanes, dual right-turn lanes and/or overlap phasing may be effective. A high conflicting northbound and southbound volume suggests that grade separating one or more movements may also be necessary to fully mitigate the LOS impact. At Bradshaw Road & Jackson Road, the critical movements are the conflicting through volumes on all approaches. Grade separating either the Bradshaw Road or Jackson Road through movements is likely the only option that would mitigate the LOS impact at this location.

### 6.5.3 CEQA Cumulative Plus FOUR PROJECTS U.S. 50 Freeway Mitigation

According to Caltrans' US-50 Transportation Concept Report (TCR) and Corridor System Management Plan (CSMP), all mainline freeway lanes of the 8-lane ultimate facility (4 lanes in each direction) have already been built, with the exception of the segment between Zinfandel Drive and Sunrise Boulevard (where 6 of the 8 ultimate lanes exist today). With the exception of this segment, capacity improvements to widen the freeway mainline are precluded by the ultimate configuration in the TCR/CSMP. The TCR/CSMP does conceptualize other projects that will benefit the US-50 corridor without adding additional mainline travel lanes. These improvements generally fall into one of three categories:

- Intelligent transportation systems (ITS) and integrated corridor management (ICM) projects. Some examples may include ramp metering and multimodal improvements.
- Improvements to parallel local facilities. Such projects are expected to reduce travel demand on US-50.
- Future HOV lanes and auxiliary lanes. These projects would extend, or bridge gaps in, the existing HOV and auxiliary lane network. Constructing these lanes is permissible even when further widening of the mainline is not allowable, and is consistent with the ultimate configuration in the TCR/CSMP.

The FOUR PROJECTS shall participate in one or more of these alternative improvements that could directly reduce the severity of the project's impact and/or provide operational benefits to the US-50 corridor in general.

### 6.5.3.1 US-50 Eastbound Alternative Improvements

To lessen the impact to the eastbound US-50 mainline between Stockton Boulevard and 59th Street, the project may pay a fair share toward the construction of:

• Ramp meter improvements (Caltrans ITS/OPS Project List)

To lessen the impact to the eastbound US-50 weave between 65th Street and Howe Avenue, the project may pay a fair share toward the construction of:

- Ramp meter improvements (Caltrans ITS/OPS Project List)
- Widen 65th Street to 5 lanes from US-50 to Broadway (2035 SACOG MTP)

To lessen the impact to the eastbound US-50 mainline between Watt Avenue and Mather Field Road, and to the Bradshaw Road exit, and to the weave between Mather Field Road and Zinfandel Drive, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Bradshaw Road and Mather Field Road (2035 SACOG MTP)
- An interchange modification of US-50 at Mather Field Road (2035 SACOG MTP)

To lessen the impact to the eastbound US-50 mainline between Zinfandel Drive and Hazel Avenue, and to the weave between Rancho Cordova Parkway and Hazel Avenue, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Zinfandel Drive and Sunrise Boulevard (2035 SACOG MTP)
- Auxiliary lanes between Sunrise Boulevard and Hazel Avenue (2035 SACOG MTP)
- Widen Sunrise Boulevard to 6 lanes with special treatments, including intersection improvements at White Rock Road, Folsom Boulevard, Coloma Road, Gold Express Drive, and Gold Country Boulevard (2035 SACOG MTP)

- A new interchange at Rancho Cordova Parkway, including a 4-lane arterial from US-50 to White Rock Road (2035 SACOG MTP)
- Multi-modal corridor improvements and interchange improvements at Hazel Avenue (2035 SACOG MTP)

### 6.5.3.2 US-50 Westbound Alternative Improvements

To lessen the impact to the westbound US-50 weave between Hazel Avenue and Rancho Cordova Parkway, the project may pay a fair share toward the construction of:

- Multi-modal corridor improvements and interchange improvements at Hazel Avenue (2035 SACOG MTP)
- Auxiliary lanes between Hazel Avenue and Rancho Cordova Parkway (2035 SACOG MTP)

To lessen the impact to the westbound US-50 on-ramp at Sunrise Boulevard, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Sunrise Boulevard and Zinfandel Drive (2035 SACOG MTP)
- A transition lane from the Sunrise Boulevard slip off-ramp to the Sunrise Boulevard slip on-ramp (2035 SACOG MTP)

To lessen the impact to the westbound US-50 mainline between Mather Field Road and Bradshaw Road, and to the SB Bradshaw Road slip on-ramp, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Mather Field Road and Bradshaw Road (2035 SACOG MTP)
- An interchange modification of US-50 at Mather Field Road (2035 SACOG MTP)

To lessen the impact to the westbound US-50 mainline between Watt Avenue and SR-51/SR-99, and to the SB Howe Avenue slip on-ramp, the project may pay a fair share toward the construction of:

- Bus/HOV lanes from Watt Avenue to Downtown Sacramento (2035 SACOG MTP)
- Replacement of existing communication lines with fiber optics to improve performance between SR-51/SR-99 and Watt Avenue (2013 10-Year SHOPP Plan)
- Auxiliary lane between the NB Howe Avenue on-ramp and the SB Howe Avenue on-ramp (2035 SACOG MTP)
- Ramp meter improvements (Caltrans ITS/OPS Project List)

		Seg	ment		CEQA Cumu	lative + FOU	R PROJEC	TS		Miti	gated CEQ	A Cumula	tive + FOUR	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
2	Bradshaw Rd	US 50	Lincoln Village Dr	6	Arterial M	88,900	1.65	F	6	Arterial M	1.65	F	Yes		Maximum General Plan lanes
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd	6	Arterial M	81,450	1.51	F	6	Arterial M	1.51	F	Yes		Maximum General Plan lanes
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd	6	Arterial M	81,000	1.50	F	6	Arterial M	1.50	F	Yes		Maximum General Plan lanes
5.1	Bradshaw Rd	Goethe Rd	Collector WJ-8	6	Arterial M	70,200	1.30	F	6	Arterial M	1.30	F	Yes		Maximum General Plan lanes
5.2	Bradshaw Rd	Collector WJ-8	Kiefer Blvd	6	Arterial M	66,370	1.23	F	6	Arterial M	1.23	F	Yes		Maximum General Plan lanes
6.1	Bradshaw Rd	Kiefer Blvd	Collector WJ-9	6	Arterial M	68,950	1.28	F	6	Arterial M	1.28	F	Yes		Maximum General Plan lanes
6.2	Bradshaw Rd	Collector WJ-9	Mayhew Rd	6	Arterial M	68,690	1.27	F	6	Arterial M	1.27	F	Yes		Maximum General Plan lanes
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd	2	Arterial M	28,710	1.60	F	4	Arterial M	0.80	C	No		
25	Elder Creek Rd	South Watt Ave	Hedge Ave	4	Arterial M	54,480	1.51	F	6	Arterial M	1.01	F	No		
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	4	Arterial M	43,210	1.20	F	6	Arterial M	0.80	D	No		
28.1	Elder Creek Rd	Bradshaw Rd	Vineyard Rd	3	Arterial M	31,620	1.76	F	4	Arterial M	0.88	D	No		
31.1	Excelsior Rd	Jackson Rd	Collector WJ-6	3	Arterial M	41,580	2.31	F	6	Arterial M	0.77	C	No		
31.2	Excelsior Rd	Collector WJ-6	Elder Creek Rd	3	Arterial M	41,380	2.30	F	6	Arterial M	0.77	С	No		
37	Florin Rd	Power Inn Rd	Florin-Perkins Rd	4	Arterial M	44,830	1.25	F	4	Arterial M	1.25	F	Yes		Maximum General Plan lanes
41	Florin Rd	Mayhew Rd	Bradshaw Rd	4	Arterial M	43,130	1.20	F	6	Arterial M	0.80	С	No		
42.2	Florin Rd	Vineyard Rd	Excelsior Rd	3	Arterial M	28,090	1.56	F	4	Arterial M	0.78	С	No		



		Seg	ment		CEQA Cumu	lative + FOU	R PROJEC	TS		Miti	gated CEQ	A Cumula	tive + FOUR	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
43	Florin Rd	Excelsior Rd	Sunrise Blvd	2	Arterial M	18,580	1.03	F	4	Arterial M	0.52	А	No		
44	Folsom Blvd	Howe Ave	Jackson Rd	4	Arterial M	56,760	1.58	F	4	Arterial M	1.58	F	Yes		Maximum General Plan lanes
46	Fruitridge Rd	Power Inn Rd	Florin Perkins Rd	4	Arterial M	32,850	0.91	Е	4	Arterial M	0.91	E	Yes		Maximum General Plan lanes
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave	2	Arterial M	29,480	1.64	F	4	Arterial M	0.82	D	No		
48	Fruitridge Rd	South Watt Ave	Hedge Ave	3	Arterial M	24,970	1.39	F	4	Arterial M	0.69	В	No		
51.2	Grant Line Rd	Chrysanthy Blvd	Kiefer Blvd	4	Arterial M	47,600	1.32	F	6	Arterial M	0.88	D	No		
52.1	Grant Line Rd	Kiefer Blvd	Rancho Cordova Pkwy	4	Arterial M	37,390	1.04	F	6	Arterial M	0.69	В	No		
56	Grant Line Rd	Sheldon Rd	Wilton Rd	4	Arterial M	46,230	1.28	F	6	Arterial M	0.86	D	No		
57	Grant Line Rd	Wilton Rd	Bond Rd	4	Arterial M	40,920	1.14	F	6	Arterial M	0.76	С	No		
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	4	Arterial M	51,220	1.42	F	4	Arterial M	1.42	F	Yes	Happy Lane realigned to Routier Road, widened to 6 lanes	County will not exceed 6 lanes
62	Howe Ave	US 50	Folsom Blvd	6	Arterial M	72,510	1.34	F	6	Arterial M	1.34	F	Yes		Maximum General Plan lanes
65	Jackson Rd	Folsom Blvd	Florin Perkins Rd	4	Arterial M	36,540	1.02	F	4	Arterial M	1.02	F	Yes		Maximum General Plan lanes
66.1	Jackson Rd	Florin Perkins Rd	14th Ave	4	Arterial M	45,880	1.27	F	4	Arterial M	1.27	F	Yes		Maximum General Plan lanes
66.2	Jackson Rd	14th Ave	Rock Creek Pkwy	4	Arterial M	64,740	1.80	F	4	Arterial M	1.80	F	Yes		Maximum General Plan lanes



		Seg	ment		CEQA Cumu	lative + FOU	R PROJEC	TS		Miti	gated CEQ	A Cumula	tive + FOUR	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
66.3	Jackson Rd	Rock Creek Pkwy	Aspen 1 Dwy	4	Arterial M	61,240	1.70	F	4	Arterial M	1.70	F	Yes		Maximum General Plan lanes
66.4	Jackson Rd	Aspen 1 Dwy	South Watt Ave	4	Arterial M	58,860	1.64	F	4	Arterial M	1.64	F	Yes		Maximum General Plan lanes
67	Jackson Rd	South Watt Ave	Hedge Ave	4	Arterial M	69,380	1.93	F	6	Arterial M	1.28	F	Yes		Maximum General Plan lanes
68.1	Jackson Rd	Hedge Ave	Collector WJ-3	4	Arterial M	62,190	1.73	F	6	Arterial M	1.15	F	Yes		Maximum General Plan lanes
68.2	Jackson Rd	Collector WJ-3	Mayhew Rd	4	Arterial M	62,890	1.75	F	6	Arterial M	1.16	F	Yes		Maximum General Plan lanes
69	Jackson Rd	Mayhew Rd	Bradshaw Rd	6	Arterial M	63,070	1.17	F	6	Arterial M	1.17	F	Yes		Maximum General Plan lanes
70.1	Jackson Rd	Bradshaw Rd	Collector WJ-4	6	Arterial M	60,480	1.12	F	6	Arterial M	1.12	F	Yes		Maximum General Plan lanes
70.2	Jackson Rd	Collector WJ-4	Happy Ln	6	Arterial M	57,380	1.06	F	6	Arterial M	1.06	F	Yes		Maximum General Plan lanes
71.1	Jackson Rd	Excelsior Rd	Collector JT-3	4	Arterial M	62,780	1.74	F	6	Arterial M	1.16	F	Yes		Maximum General Plan lanes
71.2	Jackson Rd	Collector JT-3	Tree View Ln	4	Arterial M	48,960	1.36	F	6	Arterial M	0.91	Е	No		
71.3	Jackson Rd	Tree View Ln	Collector JT-4	4	Arterial M	42,560	1.18	F	6	Arterial M	0.79	С	No		
71.4	Jackson Rd	Collector JT-4	Eagles Nest Rd	4	Arterial M	39,060	1.09	F	6	Arterial M	0.72	С	No		
72.1	Jackson Rd	Eagles Nest Rd	Rockbridge Dr	4	Arterial M	39,660	1.10	F	6	Arterial M	0.73	C	No		



		Seg	ment		CEQA Cumu	lative + FOU	R PROJEC	TS		Miti	gated CEQ	A Cumula	tive + FOUR	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
72.2	Jackson Rd	Rockbridge Dr	Sunrise Blvd	4	Arterial M	39,710	1.10	F	6	Arterial M	0.74	С	No		
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	4	Arterial M	46,130	1.28	F	6	Arterial M	0.85	D	No		
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd	4	Arterial M	47,090	1.31	F	4	Arterial M	1.31	F	Yes		Maximum General Plan lanes
77.1	Kiefer Blvd	Bradshaw Rd	Collector WJ-14	6	Arterial M	56,300	1.04	F	6	Arterial M	1.04	F	Yes		Maximum General Plan lanes
78.4	Kiefer Blvd	E Collector MS-1	Sunrise Blvd	3	Arterial M	37,390	2.08	F	4	Arterial M	1.04	F	Yes		Maximum General Plan lanes
79	Kiefer Blvd	Sunrise Blvd	Rancho Cordova Pkwy	4	Arterial M	33,880	0.94	Е	4	Arterial M	0.94	Е	Yes		Maximum General Plan lanes
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd	2	Res Collector F	15,750	1.97	F	2	Res Collector F	1.97	F	Yes	Construct Douglas Road extension to 4 lanes	Maximum General Plan lanes
89.1	Mayhew Rd	Jackson Rd	Rock Creek Pkwy	4	Arterial M	52,530	1.46	F	6	Arterial M	0.97	Е	No		
89.2	Mayhew Rd	Rock Creek Pkwy	Fruitridge Rd	4	Arterial M	51,240	1.42	F	6	Arterial M	0.95	E	No		
92	Old Placerville Rd	Happy Ln	Routier Rd	2	Arterial M	53,710	2.98	F					No	Happy Lane realigned to Routier Road, widened to 6 lanes	
93	Old Placerville Rd	Routier Rd	Rockingham Dr	4	Arterial M	34,690	0.96	Е	4	Arterial M	0.96	Е	Yes		Maximum General Plan lanes
95	Rockingham Dr	Old Placerville Rd	Mather Field Rd	4	Arterial M	38,480	1.07	F	4	Arterial M	1.07	F	Yes		Maximum General Plan lanes



		Segr	ment		CEQA Cumu	llative + FOU	R PROJEC	TS		Miti	gated CEQ	A Cumula	tive + FOUR	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
96	South Watt Ave	Folsom Blvd	Kiefer Blvd	6	Arterial M	84,250	1.56	F	6	Arterial M	1.56	F	Yes		Maximum General Plan lanes
97	South Watt Ave	Kiefer Blvd	Jackson Rd	6	Arterial M	71,600	1.33	F	6	Arterial M	1.33	F	Yes		Maximum General Plan lanes
100	South Watt Ave	Elder Creek Rd	Florin Rd	6	Arterial M	59,790	1.11	F	6	Arterial M	1.11	F	Yes		Maximum General Plan lanes
104.3	Sunrise Blvd	Rio Del Oro Pkwy	Douglas Rd	6	Arterial M	65,850	1.22	F	6	Arterial M	1.22	F	Yes		Maximum General Plan lanes
105	Sunrise Blvd	Douglas Rd	Kiefer Blvd	5	Arterial M	37,890	1.05	F	6	Arterial M	0.70	С	No		
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd	4	Arterial M	33,310	0.93	E	6	Arterial M	0.62	В	No		
110	Watt Ave	US 50	Folsom Blvd	6	Arterial H	108,540	1.81	F	6	Arterial H	1.81	F	Yes		Maximum General Plan lanes
117	White Rock Rd	Grant Line Rd	Prairie City Rd	4	Arterial M	55,730	1.55	F	6	Arterial M	1.03	F	No		
122	Zinfandel Dr	City Limit	Douglas Rd	2	Arterial M	33,990	1.89	F	4	Arterial M	0.94	Е	No		
132	Kiefer Blvd	Americanos Blvd	Grant Line Rd	2	Arterial M	18,810	1.05	F	4	Arterial M	0.52	A	No		
135	Rancho Cordova Pkwy	White Rock Rd	International Dr	6	Arterial M	49,470	0.92	E	6	Arterial M	0.92	Е	Yes		Maximum General Plan lanes
136	Rancho Cordova Pkwy	International Dr	Rio Del Oro Pkwy	6	Arterial M	60,440	1.12	F	6	Arterial M	1.12	F	Yes		Maximum General Plan lanes
200	Kiefer Blvd	Tree View Ln	Eagles Nest Rd	4	Arterial M	41,540	1.15	F	4	Arterial M	1.15	F	Yes		Maximum General Plan lanes



		Seg	ment	(	CEQA Cumu	lative + FOU	R PROJEC	TS		Miti	gated CEQ	A Cumula	tive + FOUR	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
302	Happy Ln	Kiefer Blvd	Mayhew Rd	4	Arterial M	43,730	1.21	F	4	Arterial M	1.21	F	Yes		Maximum General Plan lanes
305	Kiefer Blvd	Happy Ln	Collector WJ-15	6	Arterial M	66,970	1.24	F	6	Arterial M	1.24	F	Yes		Maximum General Plan lanes
306	Kiefer Blvd	Collector WJ-15	Douglas Rd	6	Arterial M	63,570	1.18	F	6	Arterial M	1.18	F	Yes		Maximum General Plan lanes
308	Mayhew Rd	Happy Ln	Bradshaw Rd	4	Arterial M	40,390	1.12	F	6	Arterial M	0.75	C	No		
309	Mayhew Rd	Bradshaw Rd	Jackson Rd	4	Arterial M	46,460	1.29	F	6	Arterial M	0.86	D	No		
311	Mayhew Rd	Collector WJ-13	Elder Creek Rd	3	Arterial M	28,570	1.59	F	4	Arterial M	0.79	C	No		
319	Vineyard Rd	Rock Creek Pkwy	Elder Creek Rd	4	Arterial M	39,590	1.10	F	4	Arterial M	1.10	F	Yes		Maximum General Plan lanes
405	Collector JT-3	Collector JT-5	Jackson Rd	2	Res Collector F	18,370	2.30	F	4	Arterial M	0.51	А	No		
410	Kiefer Blvd	Excelsior Rd	Tree View Ln	4	Arterial M	38,470	1.07	F	4	Arterial M	1.07	F	Yes		Maximum General Plan lanes
602	Collector MS-2	Eagles Nest Rd	Collector MS-5	2	Res Collector F	9,980	1.25	F	2	Res Collector NF	1.00	Е	No		



		Segi	ment	(	CEQA Cumu	lative + FOUI	R PROJEC	TS		Miti	gated CEQ	A Cumulat	tive + FOUR	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible

Note: Gray shading represents changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage

<sup>2</sup> Alternative mitigations represent proposed mitigations beyond the General Plan, as proposed by the County of Sacramento.



# Table 6.13

CEQA Cumulative Plus FOUR PROJECTS Impacted Intersections a	nd Mitigations			AM Peak Hour	•						PM Peak Hou	ŕ –		
	CEQA Cum Pl	ulative Plu ROJECTS	IS FOUR		Mitigated C FOL	EQA Cumul JR PROJEC	ative Plus TS	CEQA Cum P	ulative Plu ROJECTS	IS FOUR		Mitigated C FOU	EQA Cumul	ative Plus TS
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
3 Power Inn Road/Howe Avenue & Folsom Blvd	Signal	F	103.3	Yes				Signal	F	91.6	Yes			
4 Power Inn Road & 14th Avenue	Signal	F	227.8	Yes	Signal	F	174.1	Signal	F	149.2	Yes	Signal	F	117.7
5 Power Inn Road & Fruitridge Road	Signal	F	118.6	No				Signal	E	60.8	Yes			
12 Watt Avenue & Folsom Blvd.	Signal	F	196.0	Yes	Signal	D	53.3	Signal	F	217.7	Yes	Signal	D	54.2
14 S. Watt Avenue & Kiefer Blvd.	Signal	F	118.0	Yes	Signal	SB Ramps B NB Ramps B	SB Ramps 15.8 NB Ramps 19.6	Signal	F	90.7	Yes	Signal	SB Ramps B NB Ramps C	SB Ramps 18.0 NB Ramps 32.0
16 S. Watt Avenue & Jackson Road	Signal	F	246.9	Yes	Signal	E	79.6	Signal	F	207.8	Yes	Signal	E	78.7
17 S. Watt Avenue & Fruitridge Road	Signal	F	159.8	Yes	Signal	F	116.1	Signal	F	174.2	Yes	Signal	F	108.8
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	F	302.3	Yes	Signal	F	104.0	Signal	F	204.3	Yes	Signal	F	84.3
23 Hedge Avenue & Jackson Road	Signal	F	214.4	Yes	Signal	D	38.5	Signal	F	121.0	Yes	Signal	С	23.6
28 Mayhew Road & Kiefer Boulevard	Signal	F	133.5	Yes	Signal	E	74.4	Signal	F	84.1	No			
29 Mayhew Road & Jackson Road	Signal	F	145.8	Yes	Signal	E	78.9	Signal	F	129.4	Yes	Signal	E	72.0
31 Mayhew Road & Elder Creek Road	Signal	F	297.4	Yes	Signal	E	79.0	Signal	F	211.5	Yes	Signal	E	77.1
32 Woodring Drive & Zinfandel Drive	Two-way stop	Е	40.8	Yes	Signal	В	15.0	Two-way stop	С	20.8	Yes	Signal	С	27.2
Eastbound		F	>300						F	>300				
Northbound Left Turn		В	12.6						В	14.8				

## Table 6 13

QA Cumulative Plus FOUR PROJECTS Impacted Intersections and Mitigations														
CEQA Cumulative Plus FOUR PROJECTS Impacted Intersections an	nd Mitigations										DM Dock How			
	CEQA Cum	ulative Plu ROJECTS	s FOUR	AIVI PEAK HOU	Mitigated CE FOUI	QA Cumul	ative Plus TS	CEQA Cum PF	ulative Plu ROJECTS	IS FOUR	FIVI PEAK HOUI	Mitigated CE FOU	QA Cumula R PROJECT	ative Plus IS
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
35 Bradshaw Road & US 50 EB Ramps	Signal	E	68.7	Yes				Signal	D	40.2	No			
36 Bradshaw Road & Old Placerville Road	Signal	F	89.9	Yes				Signal	F	88.7	Yes			
37 Bradshaw Road & Kiefer Boulevard	Signal	F	180.8	Yes	Signal	F	159.4	Signal	F	197.9	Yes	Signal	F	170.7
39 Bradshaw Road & Elder Creek Road	Signal	F	172.5	Yes	Signal	F	94.9	Signal	F	155.7	Yes	Signal	D	54.9
40 Bradshaw Road & Florin Road	Signal	F	128.0	No				Signal	F	95.5	Yes	Signal	E	60.1
42 Happy Lane & Old Placerville Road	Two-way stop	F	181.0	Yes	Signal	E	67.7	Two-way stop	F	192.1	Yes	Signal	D	47.4
Northbound Left Turn		F	>300						F	>300				
Northbound Right Turn		F	>300						F	>300				
43 Happy Lane & Kiefer Boulevard	Signal	F	125.0	Yes	Signal	F	83.3	Signal	F	98.2	Yes	Signal	E	76.9
44 Excelsior Road & Kiefer Boulevard	Signal	F	148.2	Yes				Signal	F	83.6	Yes			
45 Excelsior Road & Jackson Road	Signal	F	357.8	Yes	Signal	E	58.4	Signal	F	274.1	Yes	Signal	E	76.1
46 Excelsior Road & Elder Creek Road	Signal	F	126.6	Yes	Signal	В	14.9	Signal	F	120.1	Yes	Signal	С	24.0
47 Excelsior Road & Florin Road	Signal	F	212.0	Yes	Signal	E	71.3	Signal	F	169.6	Yes	Signal	E	55.3
51 Mather Field Road & Rockingham Drive	Signal	F	271.4	Yes				Signal	F	144.7	Yes			
58 Zinfandel Drive & Douglas Road	Signal	F	273.9	Yes	Signal	E	65.8	Signal	F	273.2	Yes	Signal	E	77.1

# T-bla C 42

QA Cumulative Plus FOUR PROJECTS Impacted Intersections and Mitigations           AM Peak Hour         PM Peak Hour           0501.0														
	CEQA Cum PI	ulative Plu ROJECTS	IS FOUR	AM Peak Hou	r Mitigated CE FOUI	QA Cumul	ative Plus FS	CEQA Cum PF	ulative Plu ROJECTS	IS FOUR	PM Peak Hou	r Mitigated CE FOU	QA Cumula R PROJECT	ative Plus rS
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
59 Eagles Nest Road/Zinfandel Drive & Kiefer Boulevard	Signal	F	86.3	Yes	Signal	E	63.9	Signal	Е	61.2	No			
61 Eagles Nest Road & Florin Road	Two-way stop	F	>300	Yes	Signal	E	76.1	Two-way stop	F	>300	Yes	Signal	E	62.4
Northbound		F	>300						F	>300				
Southbound		F	>300						F	>300				
Eastbound Left Turn Westbound Left Turn		B	11.6						A	0.0				
67 Sunrise Boulevard & Douglas Road	Signal	F	230.7	Yes	Signal	F	230.5	Signal	F	115.4	Yes	Signal	F	114.7
69 Sunrise Boulevard & Kiefer Boulevard	Signal	F	443.8	Yes	Signal	F	88.7	Signal	F	167.2	Yes	Signal	E	59.3
70 Sunrise Boulevard & Jackson Road	Signal	F	109.7	Yes	Signal	D	50.2	Signal	F	89.0	Yes	Signal	D	54.8
72 Sheldon Lake Drive/Sunrise Boulevard & Grant Line Road	Signal	F	188.1	Yes	Signal	Е	77.4	Signal	Е	79.3	No			
76 Prairie City Road & White Rock Road	Signal	F	96.4	Yes	Signal	D	51.5	Signal	F	137.2	No			
80 Grant Line Road & Jackson Road	Signal	F	140.0	Yes	Signal	D	44.8	Signal	F	83.0	Yes	Signal	D	46.5
86 Power Inn Road & Florin Rd	Signal	F	118.5	Yes	Signal	F	99.0	Signal	Е	79.0	No			
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	F	358.4	No				Signal	F	343.5	Yes	Signal	F	280.3
93 Grant Line Rd & Dwy/Wilton Rd	Signal	F	89.1	No				Signal	F	103.6	Yes	Signal	E	55.8
95 Florin Perkins Road & 14th Avenue	Signal	E	67.6	Yes				Signal	D	54.3	No			
96 Jackson Road & 14th Avenue	Signal	F	166.5	Yes				Signal	F	115.4	Yes			

# Table 6 13

e 6.13														
CEQA Cumulative Plus FOUR PROJECTS Impacted Intersections a	and Mitigations													
				AM Peak Hou	r Mitigated CE		otivo Dluo		ulativa Dlu		PM Peak Hou	Mitigated CE		ativo Dluo
		ROJECTS	IS FOUR		FOUF	R PROJEC	TS		ROJECTS	IS FOUR		FOU	R PROJECT	IS
Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
97 Rock Creek Pkwy & Jackson Road	Signal	F	201.5	Yes				Signal	F	188.2	Yes			
105 Rancho Cordova Pkwy & Kiefer Blvd	Signal	E	71.1	Yes	Signal	D	39.3	Signal	D	52.4	No			
306 Excelsior Road & Collector WJ-6	Signal	F	109.6	Yes	Signal	С	25.1	Signal	D	44.9	No			
308 Hedge Avenue & Rock Creek Pkwy WB	Roundabout	F	77.3	Yes	Roundabout	В	10.0	Roundabout	С	17.0	No			
310 Mayhew Road & Rock Creek Pkwy WB	Roundabout	F	341.2	Yes	Signal	Е	66.4	Roundabout	F	348.9	Yes	Signal	E	67.9
311 Mayhew Road & Rock Creek Pkwy EB	Roundabout	F	254.9	Yes	Signal	Е	66.4	Roundabout	F	204.0	Yes	Signal	E	67.9
314 Vineyard Road/Happy Lane & Rock Creek Pkwy	Signal	Е	56.0	No				Signal	F	88.7	Yes	Signal	E	78.2
318 Bradshaw Road & Mayhew Road	Signal	F	185.3	Yes	Signal	F	100.8	Signal	F	132.9	Yes	Signal	E	58.5
325 Douglas Road & Kiefer Boulevard	Signal	F	223.6	Yes	Signal	F	133.8	Signal	F	141.7	Yes	Signal	E	59.3
326 Happy Lane & Mayhew Road	Roundabout	F	277.4	Yes	Signal	D	46.8	Roundabout	F	204.6	Yes	Signal	D	44.3
328 Vineyard Road & Florin Road	Signal	F	104.2	Yes	Signal	Е	59.6	Signal	E	55.9	No			
400 Collector JT-3 & Jackson Road	Signal	F	88.1	Yes	Signal	D	49.9	Signal	D	49.8	No			
605 Collector MS-5 & Collector MS-4	All-way stop	F	55.5	Yes	Signal	Е	63.8	All-way stop	E	43.1	No			
Note: Gray shading represents changes in traffic control for which	te: Gray shading represents changes in traffic control for which the project is responsible to pay a fair share.													

# Table 6 14

DIE 6.14															
CEQA Cumulative Plus FOUR PROJECT	S Intersection I	mpacts and Mi	tigations												
	Traffic	Control	CEQA Cumul	ative Plus FOUR	R PROJECTS La	ne Geometrics	Mitigated CE	EQA Cumulative Geon	Plus FOUR PRO	DJECTS Lane					
Intersection	CEQA Cumulative Plus FOUR PROJECTS	Mitigated CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Impact Caused by NewBridge Alone?	LOS Impact with Mitgation?	High Capacity Intersection? <sup>1</sup>	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
Power Inn Road/Howe Avenue & Folsom Blvd	Signal	Signal	<u>ካ</u> ካ†↑↑ ፖ	~+++~~	ካካ† ሾ	<u>ካካ†† ፖፖ</u>	<u>ካካተተተ ፖ</u>	~+++~~	ካካ† ሾ	<u>ካካ†† ሮሮ</u>	No	Yes	No		Existing development
4 Power Inn Road & 14th Avenue	Signal	Signal	ካተተ ሥ	~+++~	st r	<u>ካ</u> † ፖ	stt r	~+++~	nt r	st ke	No	Yes	No		Existing development
5 Power Inn Road & Fruitridge Road	Signal	Signal	<u>ካ</u> ካ†ሾ	~++ <i>r</i> ~	st r	<u>ካተ ፖ</u>	<u>ካ</u> ካተኛ	51177	nt r	stt c	No	Yes	No		Existing development
12 Watt Avenue & Folsom Blvd.	Signal	Signal	<u>א</u> ורר מ	~+++~~	<u>ה</u> ור בי	<u>א</u> ור ד	**	245	<u>א</u> ורר מ	<u>א</u> ורר ר	No	No	Yes	Grade separated NBT and SBT	
14 S. Watt Avenue & Kiefer Blvd.	Signal	Signal	ካካተተ ዮ	41177	אזר ב	<u>אז</u> ר כ		244	tt r	nt t	No	No	Yes	Tight Diamond Interchange (SB Watt Ramps/Kiefer intersection shown)	_
	Signal	Signal	<u>ካካተተ</u> ዮ	41155	<u>ካካ†† ፖ</u>	<u>ካካ†† ፖ</u>	ንሮ		51 T	11 r				Light Diamond Interchange (NB Watt Ramps/Kiefer intersection shown)	
16 S. Watt Avenue & Jackson Road	Signal	Signal	<u>እ</u> እበበበ ሰ	~+++ <i>r</i> ~	<u>ካካ††</u> ፖ	<u>ካካ††</u> ፖ	<u> እ</u> እነ††† <i>ሮ</i>	✓↓↓↓↓↓↓ *Free left	55111 C	እ <u>እ</u> ↑↑↑ <i>č</i> *Free right	No	No	Yes	Triple NBL, Free WBR and SBL via tunnel	
17 S. Watt Avenue & Fruitridge Road	Signal	Signal	stit c	~+       \	ה† כ	ካ† ሾ	stit r	22111S	5511 C	nt r	No	Yes	No	Dual SBR	Existing development
20 Elk Grove Florin Road/S. Watt Ave. & Florin Road	Signal	Signal	<u>ה</u> וֹוֹתי	~+++~~	stt a	ካተተ ፖ	<u> </u>	2211144	<u> </u>	ካካ† ሾ	No	No	No	Triple EBL and dual SBR	
23 Hedge Avenue & Jackson Road	Signal	Signal	ን ዮ	45	<u>ካ</u> ተ ዮ	ካተ ዮ	ካካሾ	45	nttt r	511 r	No	No	No	Dual NBL and exclusive EBR	
28 Mayhew Road & Kiefer Boulevard	Signal	Signal	<u> ነ</u> ተኛ	214	ጓጎ ሾ	ጓተ ሾ	<u>ካ</u> ሰፖ	2166	ጓጎ ሾ	ግተተ ፖ	No	No	No	Dual SBL	
29 Mayhew Road & Jackson Road	Signal	Signal	<u>ካ</u> ካ↑↑ ኖ	51177	<u>ካካተተ ፖ</u>	<u>ካካተተ ለ</u>	<u>ካካተተ ለ</u>	~++++	<u> ካካ†††                                </u>	<u>ካካተተ ለ</u>	No	No	No		
31 Mayhew Road & Elder Creek Road	Signal	Signal	*	۲ د د	nt r	<u>ካ</u> ተ ዮ	<u>ካ</u> የ	2214	5511 P	sttt e	No	No	No	Dual SBR	
32 Zinfandel Drive & Woodring Drive	Two-way stop	Signal	n††	4↓	Y		<b>n</b> ††	-4↓	Y		No	No	No		
35 Bradshaw Road & US 50 EB Ramps	Signal	Signal	111 r		ኻኻሾሾ		ttt r	111v	<u> </u>		No	Yes	No		Maximum General Plan Ianes
36 Bradshaw Road & Old Placerville Road	Signal	Signal	stit c	41100	<u>٦</u> ٢	ካካ† ፖ	<u>ካተተ ፖ</u>	41144	<u>٦</u> ٢	<u>ካካ</u> ተ ድ	No	Yes	No		Existing development

Tab	able 6.14															
CEC	A Cumulative Plus FOUR PROJECT	S Intersection I	mpacts and Mit	tigations				Mitigated CF	CA Cumulative		) IFCTS I and					
		Traffic	Control	CEQA Cumula	ative Plus FOUR	PROJECTS La	ne Geometrics	Milligated GL	Geon	netrics		Impact	1.05			
	Intersection	CEQA Cumulative Plus FOUR PROJECTS	Mitigated CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Caused by NewBridge Alone?	Impact with Mitgation?	High Capacity Intersection? <sup>1</sup>	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
37	7 Bradshaw Road & Kiefer Boulevard	Signal	Signal	<u>እ</u> እተተተ ፖ	5111 <i>2</i> 8	<u>ካ</u> ነ† ፖ	<u>ካካ††</u> ፖ	<u>א</u> ורר ר	511177	5511 C	nntit e	No	Yes	No	Carry 3 EBT and 3 WBT lanes through intersection	Maximum General Plan Ianes
39	Bradshaw Road & Elder Creek Road	Signal	Signal	<u>א</u> ור ד	~+++ <i>r</i> ~	<u>ካ</u> ካዮ	<u> ግግ</u> ተተ ፖ	55111 C	~+++~~	5511 C	<u>ካካተተ ራ</u>	No	No	No		
40	Bradshaw Road & Florin Road	Signal	Signal	<u>ההורר</u>	511177	<u>ካ</u> ካ† ሾ	<u>ካካ</u> † ሾ	<u>ה</u> וורר	~+++ <i>r</i> ~	5511 C	ssttt c	No	No	No		
42	2 Happy Lane & Old Placerville Road	Two-way stop	Signal	ንሮ		1 r	n î	אז† מי	~ † † K.K	nntit c	האז†רר היירר	No	Yes	No	Realign Happy Lane to Routier Road (6 lanes), triple WBL and dual NBR (trap)	Maximum General Plan lanes
43	B Happy Lane & Kiefer Boulevard	Signal	Signal	<u>ካካ††</u> ፖ	₽↓↓ <i>KK</i>	<u>א</u> ורר ר	<u>ካካ††</u> ፖ	<u>ה</u> ורר מ	NTTTR	55111 C	55111 C	No	Yes	No	3 NBT and 3 SBT	Maximum General Plan Ianes
44	Excelsior Road & Kiefer Boulevard	Signal	Signal	n†¢	2 I K	st r	ኑ† ሾ	٦† ٣	2 L K	5 t t	nt r	No	Yes	No		Maximum General Plan Ianes
45	Excelsior Road & Jackson Road	Signal	Signal	ካሾ	51177	ካካተተ ፖ	<u>እ</u> እበበበ ለ	<u> </u>	~+++ <i>rr</i>	ካካተተ ፖ	ካካተተ ፖ	No	No	No	NBR overlap	
46	Excelsior Road & Elder Creek Road	Signal	Signal	<b>ħ</b> †	↓ ↓ <b>ب</b>	<u>ካ</u> ፖ		<u>s</u> ††	ل ل در د	ኻኻሾ		No	No	No	Dual SBR	
47	Excelsior Road & Florin Road	Signal	Signal	ካሾ	45	ካሾ	ካሾ	nt h	415	nt r	nt r	No	No	No		
5	Mather Field Road & Rockingham Drive	Signal	Signal	<u> ነተ የ</u>	~+++ <i>r</i>	ን የ ፖ	۲ r	511 P	~+++~	<u>ካ</u> ኘ ፖ	5 F	No	Yes	No		Existing development
58	3 Zinfandel Drive & Douglas Road	Signal	Signal	<u>ካ</u> ሾ	₽↓ <b>%</b> %	ካተ ሾ	<u>ካካ††</u> ፖ	<u>ካካተተ ፖ</u>	~	55111 C	55111 C	No	No	No		
59	Eagles Nest Road/Zinfandel Drive & Kiefer Boulevard	Signal	Signal	הה <i>ו</i> ר מ	511 <i>22</i>	<u> ካካተተ ፖ</u>	<u> ካካ††                                 </u>	<u>ה</u> ורר מ	211 r.r	<u>ካካ</u> ተ ፖ	55111 C	No	No	No	3 WBT	
6′	Eagles Nest Road & Florin Road	Two-way stop	Signal	Ý	*	Ý	Ý	ካሾ	45	5 ř	٦ř	Yes	No	No		
67	7 Sunrise Boulevard & Douglas Road	Signal	Signal	55111 C	~+++ <i>r</i> ~	ካካተተ የ	55111 c	55111 C	~	55111 c	55111 C	Yes	Yes	No		Maximum General Plan Ianes
69	Sunrise Boulevard & Kiefer Boulevard	Signal	Signal	<u>ካተተ ፖ</u>	4122	<u>ה</u> ורר מ	7 r	<u>א</u> ורר ר	~+++ <i>r</i> ~	הוור מ	<u>ה</u> ורר מ	Yes	No	No		
70	Sunrise Boulevard & Jackson Road	Signal	Signal	<u> ካካተተ ፖ</u>	~ † † <i>r r</i>	<u>ካካተተ ራ</u>	<u>ካካ††</u> ፖ	55111 r	~+++~~	55111 r	55111 C	No	No	No		

EQA Cumulative Plus FOUR PROJECTS Intersection Impacts and Mitigations															
CEQA Cumulative Plus FOUR PROJECT	S Intersection I Traffic	Control	cEQA Cumul	ative Plus FOUR	R PROJECTS Lar	ne Geometrics	Mitigated CE	EQA Cumulative Geon	Plus FOUR PRO	JECTS Lane					
Intersection	CEQA Cumulative Plus FOUR PROJECTS	Mitigated CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Impact Caused by NewBridge Alone?	LOS Impact with Mitgation?	High Capacity Intersection? <sup>1</sup>	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
72 Sheldon Lake Drive/Sunrise Boulevard & Grant Line Road	Signal	Signal	*	4	ካተተ ፖ	ጓተ ሾ	≯	4	התורר. החורר מ	ካተ ዮ	No	No	No		
76 Prairie City Road & White Rock Road	Signal	Signal		24	<u>ה</u> ו ל גע	11 r		244	<u> </u>	111 r	No	No	No		
80 Grant Line Road & Jackson Road	Signal	Signal	<u>ካካ††</u> ፖ	2114A	<u>ካካተተ ራ</u>	<u>ካካ††</u> ፖ	55111 r	2211144	<u>א</u> ל † ררר	ה וורר <i>ב</i>	No	No	No	Triple EBL and dual SBR	
86 Power Inn Road & Florin Rd	Signal	Signal	5 t ř	~++~	stt r	sttt e	<u>ግተተ ፖ</u>	~++~	<u>א</u> ור ד	stit c	No	No	No		
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	Signal	<u> ነተ  «</u>	415	*	ካሾ	ጓተተ ፖ	415	5 P	5 ř	Yes	No	No		
93 Grant Line Rd & Dwy/Wilton Rd	Signal	Signal	<u>ካ</u> ተዮ	415	זר	ካሾ	ካተዮ	4144	<b>٦</b> ٢	זר	Yes	No	No		
95 Florin Perkins Road & 14th Avenue	Signal	Signal	אוֹדר <i>ב</i>	N T T K R	<u>ካ</u> ካ†↑ ፖ	<u>እ</u> ነተ ፖ	<u>እ</u> ነተተ ፖ	NT T C C	א†† כ	<u>ካ</u> ካ†↑ ፖ	No	Yes	No		Maximum General Plan Ianes
96 Jackson Road & 14th Avenue	Signal	Signal		~ ~	<b>h</b> ††	11 r		77	<b>n</b> ††	11 r	No	Yes	No		Maximum General Plan Ianes
97 Rock Creek Pkwy & Jackson Road	Signal	Signal	٦†r	2 L F	st r	st r	٦1 m	2 L F	<u>ה</u> † לי	ኑ† ሾ	Yes	Yes	No		Maximum General Plan Ianes
105 Rancho Cordova Pkwy & Kiefer Blvd	Signal	Signal	<u>ካ</u> ሰኛ	2 L L	nt r	ה† מ	ካ † ፖ		<u>ה</u> † ד	<u>ካተተ ፖ</u>	No	No	No		
306 Excelsior Road & Collector WJ-6	Signal	Signal	<u>ה</u> †	4↓	<u>ን</u> ሮ		<b>n</b> ††	4↓	<u></u> ግፖ		No	No	No		
308 Hedge Avenue & Rock Creek Pkwy WB	Roundabout	Roundabout	r	4		Ý	r	4		¥7	No	No	No		
310 Mayhew Road & Rock Creek Pkwy WB	Roundabout	Signal	t t	4↓		Ý	<u>ה</u> וור	4114	ን1 ፖ	st c	No	No	No		
311 Mayhew Road & Rock Creek Pkwy EB	Roundabout	Signal	17	44	א <i>ד</i>		511 F	ATTR	ካ† ፖ	st c	No	No	No		
314 Vineyard Road/Happy Lane & Rock Creek Pkwy	Signal	Signal	ካተኛ	414	st c	st c	st r	2112	51 C	st c	No	No	No		
318 Bradshaw Road & Mayhew Road	Signal	Signal		NT T T M	<u>ካካ††</u> ፖ	<u>እ</u> ነተ ፖ	אר לל הר	2211144	אזרד <i>ר</i>	nntit e	No	Yes	No	HCI, Triple EBL and dual SBR	Maximum General Plan Ianes

ble 6.14															
CEQA Cumulative Plus FOUR PROJECT	S Intersection I	mpacts and Mi	tigations												
	Traffic	Control	CEQA Cumul	ative Plus FOUR	₹ PROJECTS La	ne Geometrics	Mitigated CE	EQA Cumulative Geon	Plus FOUR PRC netrics	)JECTS Lane	Impost	1.05			
Intersection	CEQA Cumulative Plus FOUR PROJECTS	Mitigated CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Caused by NewBridge Alone?	Impact with Mitgation?	High Capacity Intersection? <sup>1</sup>	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
325 Douglas Road/Shopping Center Dwy & Kiefer Boulevard	Signal	Signal	<u>ጉ</u> ጉ†ድ		5111 C	אז†ר ר	5511 C	5 T T T T T	55111 C	55111 C	No	Yes	No	3 WBT	Maximum General Plan lanes
326 Happy Lane & Mayhew Road	Roundabout	Signal	11	4↓	<u>۲</u> ۲		<u> </u>	<u>ا ا ب</u>	ኻኻሾ		No	No	No		
328 Vineyard Road & Florin Road	Signal	Signal	ካካ↑↑ ፖ	~++ <i>r</i> ~	ካካ† ፖ	<u>ካካ††</u> ፖ	ካካተተ ፖ	~++ <i>r</i> ~	5511 C	<u>ካካተተ ፖ</u>	No	No	No		
400 Collector JT-3 & Jackson Road	Signal	Signal		<u>ي</u> ر ل	<u>ካ</u> ካ††	11 r		يا لد لير	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	11 F	No	No	No		
605 Collector MS-5 & Collector MS-4	All-way stop	Signal	*	4	*	Ý	5 ř	45	57	5 ř	No	No	No		
High capacity intersections are defined in the Sacramento County General Plan and may include grade separations, additional turn lanes, and/or other features as deemed appropriate by the County. Alternative mitigations represent proposed mitigations beyond the General Plan, excluding high capacity intersections, as proposed by the County of Sacramento.															

### 6.5.4 CEQA Cumulative Plus FOUR PROJECTS Pedestrian and Bicycle Facility Mitigation

The FOUR PROJECTS applicants shall coordinate with Sacramento County to identify the necessary on- and off-site pedestrian and bicycle facilities to serve the proposed development. These facilities shall be incorporated into the FOUR PROJECTS and could include sidewalks, stop signs, standard pedestrian and school crossing warning signs, lane striping to provide a bicycle lane, bicycle parking, signs to identify pedestrian and bicycle paths, raised crosswalks, pedestrian signal heads, and all appropriate traffic calming measures as defined in the County's Neighborhood Traffic Management Program (NTMP). Sidewalks would be required as part of the frontage improvements along all new roadway construction in the FOUR PROJECTS vicinity in conformance with County design standards. Circulation and access to all proposed public spaces shall include sidewalks that meet Americans with Disabilities Act standards.

### 6.5.5 CEQA Cumulative Plus FOUR PROJECTS Transit System Mitigation

The applicants of the FOUR PROJECTS shall coordinate with Regional Transit (or other transit operators) to provide the additional transit facilities and services assumed in transportation analysis (see Section 3.1.2.3), or a cost-effective equivalent level of transit facilities and services.

The assumed transit routes and service frequency would be required at full development of the FOUR PROJECTS. The full level of transit service would not achieve adequate transit ridership during the early stages of development. Thus the ultimate transit service, like the roadway system serving the FOUR PROJECTS, must be phased with development of the FOUR PROJECTS.

### 6.5.6 CEQA Cumulative Plus FOUR PROJECTS Functionality Mitigation

Table 6.15 summarizes the results of the functionality analysis for the study area rural roadway segments with mitigation.

### 6.5.7 CEQA Cumulative Plus FOUR PROJECTS Mitigation Summary

Tables 6.16 through 6.21 summarize the roadway segments, intersections, and freeway facilities that would exhibit significant LOS impacts, along with the mitigation success for these impacts.

# Table 6.15CEQA Cumulative Plus FOUR PROJECTS Functionality Mitigations

		Segment		CE	QA Cumulativ	ve + FOUR PR	OJECTS		Impost often
ID	Roadway	From	То	Travel	Facility	Forecasted	Functionality	Mitigation	Mitigation?
				Lanes	Туре	Volume	Impact? <sup>2</sup>		
15	Douglas Rd	Mather Blvd	Zinfandel Dr	4	Arterial M	35,330	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	6	Arterial M	48,540	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	4	Arterial M	15,420	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
20	Eagles Nest Rd	Jackson Rd	Florin Rd	2	Arterial M	9,790	Yes	Widen to County standards <sup>5</sup>	No
25	Elder Creek Rd	South Watt Ave	Hedge Ave	4	Arterial M	54,480	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	4	Arterial M	43,210	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	4	Arterial M	25,620	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd	3	Arterial M	31,620	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
30	Excelsior Rd	Kiefer Blvd	Jackson Rd	2	Arterial M	30,400	Yes	Widen to County standards <sup>5</sup>	No
31	Excelsior Rd	Jackson Rd	Elder Creek Rd	3	Arterial M	41,380	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
32	Excelsior Rd	Elder Creek Rd	Florin Rd	3	Arterial M	12,900	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
33	Excelsior Rd	Florin Rd	Gerber Rd	2	Arterial M	14,300	Yes	Widen to County standards <sup>5</sup>	No
34	Excelsior Rd	Gerber Rd	Calvine Rd	2	Arterial M	9,110	Yes	Widen to County standards <sup>5</sup>	No
39	Florin Rd	South Watt Ave	Hedge Ave	4	Arterial M	13,280	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
40	Florin Rd	Hedge Ave	Mayhew Rd	4	Arterial M	14,700	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
41	Florin Rd	Mayhew Rd	Bradshaw Rd	4	Arterial M	43,130	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
42	Florin Rd	Bradshaw Rd	Excelsior Rd	4	Arterial M	29,540	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
43	Florin Rd	Excelsior Rd	Sunrise Blvd	2	Arterial M	18,580	Yes	Widen to County standards <sup>5</sup>	No
48	Fruitridge Rd	South Watt Ave	Hedge Ave	3	Arterial M	24,970	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
49	Fruitridge Rd	Hedge Ave	Mayhew Rd	4	Arterial M	27,150	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
50	Grant Line Rd	White Rock Rd	Douglas Rd	4	Arterial M	40,500	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
58	Happy Ln	Old Placerville Rd	Kiefer Blvd	4	Arterial M	51,220	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
59	Hedge Ave	Jackson Rd	Fruitridge Rd	2	Arterial M	11,810	Yes	Widen to County standards <sup>5</sup>	No
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd	2	Arterial M	9,680	Yes	Widen to County standards <sup>5</sup>	No
61	Hedge Ave	Elder Creek Rd	Florin Rd	2	Arterial M	22,180	Yes	Widen to County standards <sup>5</sup>	No
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	6	Arterial M	60,480	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No

Red text with light gray shading indicate project impacts.



# Table 6.15CEQA Cumulative Plus FOUR PROJECTS Functionality Mitigations

	ID Decidence	Seg	ment	CE	QA Cumulativ	e + FOUR PR	OJECTS		Imme et efter
ID	Roadway	From	То	Travel	Facility	Forecasted	Functionality	Mitigation	Mitigation?
				Lanes	Туре	volume	Impact?		
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	4	Arterial M	62,780	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	6	Arterial M	56,300	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	3	Arterial M	37,390	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd	2	Res Collector F	15,750	Yes	Widen to County standards <sup>5</sup>	No
89	Mayhew Rd	Jackson Rd	Fruitridge Rd	4	Arterial M	52,530	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd	4	Arterial M	54,910	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	4	Arterial M	31,690	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

 $^{2}$  Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT.

<sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.

**Red** text with light gray shading indicate project impacts.





т	Doodwor	Segment							
ID	Koauway	From	То						
	Level of Service Impa	ct Fully Mitigated by Gene	eral Plan Lanes						
23	Elder Creek Rd	Power Inn Rd	Florin-Perkins Rd						
25	Elder Creek Rd	South Watt Ave	Hedge Ave						
26	Elder Creek Rd	Hedge Ave	Mayhew Rd						
28.1	Elder Creek Rd	Bradshaw Rd	Vineyard Rd						
31.1	Excelsior Rd	Jackson Rd	Collector WJ-6						
31.2	Excelsior Rd	Collector WJ-6	Elder Creek Rd						
41	Florin Rd	Mayhew Rd	Bradshaw Rd						
42.2	Florin Rd	Vineyard Rd	Excelsior Rd						
43	Florin Rd	Excelsior Rd	Sunrise Blvd						
47	Fruitridge Rd	Florin Perkins Rd	South Watt Ave						
48	Fruitridge Rd	South Watt Ave	Hedge Ave						
51.1	Grant Line Rd	Douglas Rd	Chrysanthy Blvd						
51.2	Grant Line Rd	Chrysanthy Blvd	Kiefer Blvd						
56	Grant Line Rd	Sheldon Rd	Wilton Rd						
57	Grant Line Rd	Wilton Rd	Bond Rd						
71.2	Jackson Rd	Collector JT-3	Tree View Ln						
71.3	Jackson Rd	Tree View Ln	Collector JT-4						
71.4	Jackson Rd	Collector JT-4	Eagles Nest Rd						
72.1	Jackson Rd	Eagles Nest Rd	Rockbridge Dr						
72.2	Jackson Rd	Rockbridge Dr	Sunrise Blvd						
73	Jackson Rd	Sunrise Blvd	Grant Line Rd						
89.1	Mayhew Rd	Jackson Rd	Rock Creek Pkwy						
89.2	Mayhew Rd	Rock Creek Pkwy	Fruitridge Rd						
92	Old Placerville Rd	Happy Ln	Routier Rd						
105	Sunrise Blvd	Douglas Rd	Kiefer Blvd						
106	Sunrise Blvd	Kiefer Blvd	Jackson Rd						
117	White Rock Rd	Grant Line Rd	Prairie City Rd						
122	Zinfandel Dr	City Limit	Douglas Rd						
132	Kiefer Blvd	Americanos Blvd	Grant Line Rd						
308	Mayhew Rd	Happy Ln	Bradshaw Rd						
309	Mayhew Rd	Bradshaw Rd	Jackson Rd						
311	Mayhew Rd	Collector WJ-13	Elder Creek Rd						
405	Collector JT-3	Collector JT-5	Jackson Rd						
602	Collector MS-2	Eagles Nest Rd	Collector MS-5						
	Level of Service Impact	Not Fully Mitigated by Ge	eneral Plan Lanes						
2	2 Bradshaw Rd US 50 Lincoln Village Dr								

Note: Refer to Table 6.12 for detailed description of impacts and mitigations.



ID	Deederser	Segi	ment
ID	Koadway	From	То
3	Bradshaw Rd	Lincoln Village Dr	Old Placerville Rd
4	Bradshaw Rd	Old Placerville Rd	Goethe Rd
5.1	Bradshaw Rd	Goethe Rd	Collector WJ-8
5.2	Bradshaw Rd	Collector WJ-8	Kiefer Blvd
6.1	Bradshaw Rd	Kiefer Blvd	Collector WJ-9
6.2	Bradshaw Rd	Collector WJ-9	Mayhew Rd
37	Florin Rd	Power Inn Rd	Florin-Perkins Rd
44	Folsom Blvd	Howe Ave	Jackson Rd
46	Fruitridge Rd	Power Inn Rd	Florin Perkins Rd
58	Happy Ln	Old Placerville Rd	Kiefer Blvd
62	Howe Ave	US 50	Folsom Blvd
65	Jackson Rd	Folsom Blvd	Florin Perkins Rd
66.1	Jackson Rd	Florin Perkins Rd	14th Ave
66.2	Jackson Rd	14th Ave	Rock Creek Pkwy
66.3	Jackson Rd	Rock Creek Pkwy	Aspen 1 Dwy
66.4	Jackson Rd	Aspen 1 Dwy	South Watt Ave
67	Jackson Rd	South Watt Ave	Hedge Ave
68.1	Jackson Rd	Hedge Ave	Collector WJ-3
68.2	Jackson Rd	Collector WJ-3	Mayhew Rd
69	Jackson Rd	Mayhew Rd	Bradshaw Rd
70.1	Jackson Rd	Bradshaw Rd	Collector WJ-4
70.2	Jackson Rd	Collector WJ-4	Happy Ln
71.1	Jackson Rd	Excelsior Rd	Collector JT-3
76	Kiefer Blvd	Mayhew Rd	Bradshaw Rd
77.1	Kiefer Blvd	Bradshaw Rd	Collector WJ-14
78.4	Kiefer Blvd	E Collector MS-1	Sunrise Blvd
79	Kiefer Blvd	Sunrise Blvd	Rancho Cordova Pkwy
83	Mather Blvd-Excelsior Rd	Douglas Rd	Kiefer Blvd
93	Old Placerville Rd	Routier Rd	Rockingham Dr
95	Rockingham Dr	Old Placerville Rd	Mather Field Rd
96	South Watt Ave	Folsom Blvd	Kiefer Blvd
97	South Watt Ave	Kiefer Blvd	Jackson Rd
100	South Watt Ave	Elder Creek Rd	Florin Rd
104.3	Sunrise Blvd	Rio Del Oro Pkwy	Douglas Rd
110	Watt Ave	US 50	Folsom Blvd
135	Rancho Cordova Pkwy	White Rock Rd	International Dr
136	Rancho Cordova Pkwy	International Dr	Rio Del Oro Pkwy

Note: Refer to Table 6.12 for detailed description of impacts and mitigations.

# Table 6.16 CEQA Cumulative Plus FOUR PROJECTS Summary of Impacted Roadway Segments



тр	Deadway	Segr	nent
ID	Koauway	From	То
200	Kiefer Blvd	Tree View Ln	Eagles Nest Rd
302	Happy Ln	Kiefer Blvd	Mayhew Rd
305	Kiefer Blvd	Happy Ln	Collector WJ-15
306	Kiefer Blvd	Collector WJ-15	Douglas Rd
319	Vineyard Rd	Rock Creek Pkwy	Elder Creek Rd
410	Kiefer Blvd	Excelsior Rd	Tree View Ln

Note: Refer to Table 6.12 for detailed description of impacts and mitigations.

Tabl	Table 6.17				
CEQA Cumulative Plus FOUR PROJECTS Summary of Impacted Intersections					
Intersection		Alternative Mitigation			
Level of Service Impact Fully Mitigated by General Plan Lanes					
20	Elk Grove Florin Road/S. Watt Ave. & Florin Road	**			
23	Hedge Avenue & Jackson Road	**			
29	Mayhew Road & Jackson Road				
31	Mayhew Road & Elder Creek Road	**			
32	Woodring Drive & Zinfandel Drive				
39	Bradshaw Road & Elder Creek Road				
40	Bradshaw Road & Florin Road				
46	Excelsior Road & Elder Creek Road	**			
47	Excelsior Road & Florin Road				
58	Zinfandel Drive & Douglas Road				
61	Eagles Nest Road & Florin Road				
69	Sunrise Boulevard & Kiefer Boulevard				
70	Sunrise Boulevard & Jackson Road				
72	Sheldon Lake Drive/Sunrise Boulevard & Grant Line Road				
76	Prairie City Road & White Rock Road				
86	Power Inn Road & Florin Rd				
91	Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd				
93	Grant Line Rd & Dwy/Wilton Rd				
105	Rancho Cordova Pkwy & Kiefer Blvd				

Tabl	Table 6.17				
CEQA Cumulative Plus FOUR PROJECTS Summary of Impacted Intersections					
Intersection					
306	Excelsior Road & Collector WJ-6				
308	Hedge Avenue & Rock Creek Pkwy WB				
310	Mayhew Road & Rock Creek Pkwy WB				
311	Mayhew Road & Rock Creek Pkwy EB				
314	Vineyard Road/Happy Lane & Rock Creek Pkwy				
326	Happy Lane & Mayhew Road				
328	Vineyard Road & Florin Road				
400	Collector JT-3 & Jackson Road				
605	Collector MS-5 & Collector MS-4				
Level of Service Impact Not Fully Mitigated by General Plan Lanes But Designated High Capacity Intersection					
12	Watt Avenue & Folsom Blvd.	**			
14	S. Watt Avenue & Kiefer Blvd.	**			
16	S. Watt Avenue & Jackson Road	**			
Level of Service Impact Not Fully Mitigated by General Plan Lanes					
3	Power Inn Road/Howe Avenue & Folsom Blvd				
4	Power Inn Road & 14th Avenue				
5	Power Inn Road & Fruitridge Road				
17	S. Watt Avenue & Fruitridge Road	*			
28	Mayhew Road & Kiefer Boulevard	**			
35	Bradshaw Road & US 50 EB Ramps				

Table 6 17				
CEQ	A Cumulative Plus FOUR PROJECTS Summary of Impacted Intersections			
	Intersection	Alternative Mitigation		
36	Bradshaw Road & Old Placerville Road			
37	Bradshaw Road & Kiefer Boulevard	*		
42	Happy Lane & Old Placerville Road	*		
43	Happy Lane & Kiefer Boulevard	*		
44	Excelsior Road & Kiefer Boulevard			
45	Excelsior Road & Jackson Road	**		
51	Mather Field Road & Rockingham Drive			
59	Eagles Nest Road/Zinfandel Drive & Kiefer Boulevard	**		
67	Sunrise Boulevard & Douglas Road			
80	Grant Line Road & Jackson Road	**		
95	Florin Perkins Road & 14th Avenue			
96	Jackson Road & 14th Avenue			
97	Rock Creek Pkwy & Jackson Road			
318	Bradshaw Road & Mayhew Road	*		
325	Douglas Road & Kiefer Boulevard	*		
<sup>1</sup> Alternative mitigations represent proposed mitigations beyond the General Plan, excluding designated high capacity intersections, as proposed by the County of Sacramento.				

\* denotes alternative mitigations that improve operations but do not fully mitigate the impact.
 \*\* denotes alternative mitigations that fully mitigate the impact.

## Table 6.18

## **CEQA Cumulative Plus FOUR PROJECTS Summary of Impacted Freeway Segments**

Direction	Location				
Level of Service Impact Not Mitigated					
	Stockton Boulevard to 59th Street				
	Watt Avenue to Bradshaw Road				
Eastbound	Bradshaw Road to Mather Field Road				
US-50	Zinfandel Drive to Sunrise Boulevard				
	Sunrise Boulevard to Rancho Cordova Parkway				
	Rancho Cordova Parkway to Hazel Avenue				
	Watt Avenue to Howe Avenue				
	Howe Avenue to 65th Street				
Westbound US-50	65th Street to 59th Street				
00.00	59th Street to Stockton Boulevard				
	Stockton Boulevard to SR 99 / SR 51				
Source: DKS Associates, 2014.					
Fable 6.19         CEQA Cumulative 1         of Impacted Freewa	Plus FOUR PROJECTS Summary v Ramp Junction/Weaves				
---	--	-------------------------			
Direction	Location	Junction Type			
	Level of Service Impact Not Mitigated				
	Northbound 65th Street Slip Entrance				
	Howe Avenue / Hornet Drive Exit				
Eastbound	Bradshaw Road Exit	Two- Lane Diverge			
US-50	Northbound Mather Field Road Slip Entrance	Weene			
	Zinfandel Drive Exit	weave			
F	Rancho Cordova Parkway Entrance	XX7			
	Hazel Avenue Exit	weave			
	Southbound Hazel Avenue Slip Entrance	<b>XX</b> 7			
	Rancho Cordova Parkway Exit	weave			
	Southbound Sunrise Boulevard Slip Entrance	Lane Addition			
Westbound US-50	Northbound Bradshaw Road Loop Entrance	One-Lane Merge			
	Southbound Bradshaw Road Slip Entrance	One-Lane Merge			
Γ	Southbound Howe Avenue Slip Entrance	One-Lane Merge			
Source: DKS Associ	iates, 2014.				

Table 6.20 CEQA Cumulative Plus FOUR PROJECTS Summary of Impacted Freeway Ramp Termini										
Direction US 50 Exit Ramp										
Queui	ing Impact Not Mitigated									
Eastbound US-50	Howe Avenue									
Westbound US-50	Rancho Cordova Parkway									
Source: DKS Associates,	2014.									

## Table 6.21 CEQA Cumulative Plus FOUR PROJECTS Functionality Impact Summary



		Segi	nent				
ID	Roadway	From	То				
	Function	ality Impact Fully Mitigate	ed				
15	Douglas Rd	Mather Blvd	Zinfandel Dr				
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd				
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd				
20	Eagles Nest Rd	Jackson Rd	Florin Rd				
25	Elder Creek Rd	South Watt Ave	Hedge Ave				
26	Elder Creek Rd	Hedge Ave	Mayhew Rd				
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd				
28	Elder Creek Rd	Bradshaw Rd	Excelsior Rd				
30	Excelsior Rd	Kiefer Blvd	Jackson Rd				
31	Excelsior Rd	Jackson Rd	Elder Creek Rd				
32	Excelsior Rd	Elder Creek Rd	Florin Rd				
33	Excelsior Rd	Florin Rd	Gerber Rd				
34	Excelsior Rd	Gerber Rd	Calvine Rd				
39	Florin Rd	South Watt Ave	Hedge Ave				
40	Florin Rd	Hedge Ave	Mayhew Rd				
41	Florin Rd	Mayhew Rd	Bradshaw Rd				
42	Florin Rd	Bradshaw Rd	Excelsior Rd				
43	Florin Rd	Excelsior Rd	Sunrise Blvd				
48	Fruitridge Rd	South Watt Ave	Hedge Ave				
49	Fruitridge Rd	Hedge Ave	Mayhew Rd				
50	Grant Line Rd	White Rock Rd	Douglas Rd				
58	Happy Ln	Old Placerville Rd	Kiefer Blvd				
59	Hedge Ave	Jackson Rd	Fruitridge Rd				
60	Hedge Ave	Fruitridge Rd	Elder Creek Rd				
61	Hedge Ave	Elder Creek Rd	Florin Rd				

## Table 6.21 CEQA Cumulative Plus FOUR PROJECTS Functionality Impact Summary



		Segr	nent			
ID	Roadway	From	То			
70	Jackson Rd	Excelsior Rd				
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd			
77	Kiefer Blvd	Bradshaw Rd	Happy Ln			
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd			
83	Mather Blvd-Excelsior Rd <sup>4</sup>	Douglas Rd	Kiefer Blvd			
89	Mayhew Rd	Jackson Rd	Fruitridge Rd			
116	White Rock Rd	Fitzgerald Rd	Grant Line Rd			
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd			

### 7. CEQA CUMULATIVE PLUS NEWBRIDGE PROJECT SCENARIO

#### 7.1 NEWBRIDGE PROJECT DESCRIPTION AND METHODOLOGY

#### 7.1.1 Project Description

As illustrated previously in Figure 1.1, the NewBridge project is located in unincorporated Sacramento County, generally east of the City of Sacramento and south of the City of Rancho Cordova and Mather Airport. It is bounded on the south by Jackson Road (SR 16), on the east by Sunrise Boulevard, and on the north by existing and future Kiefer Boulevard. The western boundary is located west of Eagles Nest Road.

#### 7.1.2 Methodology

The analysis of the CEQA Cumulative Plus NewBridge Project scenario is based upon the analysis of the CEQA Cumulative Plus FOUR PROJECTS scenario discussed in Section 6. The travel model was utilized to estimate the portion of the FOUR PROJECTS traffic that is associated with the NewBridge project. With this information, it was possible to identify whether the NewBridge project, on its own, would trigger significant impacts. It should be noted that, even at locations where the NewBridge project on its own would not trigger a significant impact, the NewBridge project contributes to the cumulative impacts associated with the CEQA Cumulative Plus FOUR PROJECTS scenario.

#### 7.1.1 CEQA Cumulative Land Use

Section 6.1.1 discusses land use associated with CEQA Cumulative conditions.

#### 7.1.2 Transportation Network

Section 6.1.2 discusses the transportation network associated with the CEQA Cumulative conditions, including the transportation network improvements associated with the FOUR PROJECTS.

#### 7.1.3 NewBridge Project Trip Generation

The trip generation of the NewBridge project was estimated by the SACSIM model, which has been utilized to prepare transportation forecasts for this analysis. Table 7.1 summarizes the person trip generation. The NewBridge project would generate about 6,800 daily work person trip ends, and over 52,000 daily person trip ends for all trip purposes.

The total trip generation of the NewBridge project is somewhat higher under the CEQA Cumulative scenario than with existing conditions. The SACSIM model will vary the trips generated by retail and service uses depending on the amount of development that is near those uses. This result is expected as commercial development with much housing and/or employment nearby will be more successful (and generate more trips) than the same commercial development located in an area with less nearby population.

### Table 7.1: Estimated Daily Person Trip Generation (CEQA Cumulative Plus FOUR PROJECTS Scenario)

#### NewBridge Specific Plan

Project	Trip Purpose	Daily Person Trip Ends
NewBridge	Work Trips	6,795
	Non-Work Trips	45,477
	All Trip Purposes	52,272
Source: DKS Associates, 2014.		

Table 7.2 summarizes the estimated mode choice for the NewBridge Project. Over 90 percent of all person trips are expected to be accommodated by automobile. Transit will serve about 1.7 percent of all trips, while walk and bike modes will accommodate about 6.7 percent of all trips.

Table 7.3 summarizes the vehicular (auto) trip generation of the NewBridge project. The NewBridge project is estimated to generate over 33,000 daily vehicle trip ends. About 1,500 of the daily vehicle trip ends will be associated with trips with both an origin and destination within the NewBridge project, about 4 percent of the trip ends. Those internal trip ends represent about 750 daily vehicle trips (one-half the number of internal trip ends). The NewBridge project will generate about 32,000 external vehicle trips that have an origin or destination inside the NewBridge project but the other end of the trip is outside the NewBridge project. Table 7.3 also shows the vehicle trips generated during the a.m. and p.m. peak hours.

#### 7.1.4 NewBridge Project Trip Distribution

The distribution of trips associated with development on the NewBridge project site was derived utilizing SACSIM, incorporating the proposed land use and access locations associated with the NewBridge project site. Trip distribution varies by land use and time period. Figure 7.1 illustrates the overall trip distribution of daily NewBridge project trips with the CEQA Cumulative scenario.

#### 7.2 **OPERATIONS ANALYSIS AND IMPACTS**

#### 7.2.1 CEQA Cumulative Plus NewBridge Project Roadway Segment Impacts

Table 7.4 summarizes the results of the operations analysis for the study area roadway segments. Only those segments where an impact would be triggered by the NewBridge project are shown. The table includes the number of lanes assumed with the implementation of the FOUR PROJECTS. The shaded table cells under the "Travel Lanes" and "Facility Type" headings illustrate new roadways or widened roadways. The last column of the table shows the project(s) responsible for the increase in the number of roadway lanes. The shaded table cells under the "Level of Service" heading indicate those locations with an LOS impact.

#### 7.2.2 CEQA Cumulative Plus NewBridge Project Intersection Impacts

Table 7.5 and 7.6 summarize the results of the operations analysis for the study area intersections. Only those intersections where an impact would be triggered by the NewBridge project are shown. The tables include the implementation of intersection changes associated with the FOUR PROJECTS. Table 7.6 illustrates the type of traffic control and number of lanes by type on each study area intersection approach. Shaded table cells indicate those locations where changes in traffic control and / or number of approach lanes by type would be fully funded by the project(s) shown in the last column. Shaded table cells in Table 7.5 illustrate those locations with an LOS impact. Detailed analysis information is included in the technical appendix.

Signal warrant analysis was conducted for all unsignalized intersections along Jackson Road, and other unsignalized intersections in close proximity to the project. The project is considered to have a significant impact at an unsignalized location if both the impact criteria in Table 1.6 are met, and one or more of the signal warrants specified in the California Manual on Uniform Traffic Control Devices (CAMUTCD) are met. Detailed signal warrant calculation sheets are included in the technical appendix. The following unsignalized intersections exhibit significant impacts and meet one or more traffic signal warrants:

• Eagles Nest Road and Florin Road

#### Table 7.2: Mode Split (CEQA Cumulative Plus FOUR PROJECTS Scenario)

		Percentage of Person Trips by Trip Purpose										
Project	Mode	Work Trips	Non-Work Trips	All Trip Purposes								
NewBridge	Auto - SOV	84.4%	43.8%	49.1%								
	Auto - HOV	10.2%	47.4%	42.6%								
	Transit	3.8%	1.4%	1.7%								
	Walk	0.8%	6.7%	6.0%								
	Bike	0.7%	0.7%	0.7%								
Source: DKS Asse	Source: DKS Associates, 2014.											

### NewBridge Specific Plan

## Table 7.3: Estimated Daily Vehicle Trip Generation (CEQA CUMULATIVE Plus FOUR PROJECTS Scenario)

#### NewBridge Specific Plan

Г	Ггір Туре	AM Peak Hour	PM Peak Hour	Daily					
Total V	ehicle Trip Ends	2,833	4,147	34,835					
Percent I	nternal Trip Ends <sup>1</sup>	6.9%	9.8%	8.5%					
	Internal to Project	99	203	1,481					
Vehicle trips	External to Project	2,636	3,742	31,873					
	Total	2,735	3,945	33,354					
<sup>1.</sup> Both trip end	ls within the project.								
Source: DKS Associates, 2014.									



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### FIGURE 7.1 CEQA CUM PLUS FOUR PROJECTS NEWBRIDGE TRIP DISTRIBUTION

### Legend





## Table 7.4 CEQA Cumulative Roadway Segment Levels of Service - Impacts Triggered by NewBridge Project

		Seg	ment		CEQA	Cumulative N	o Project			CEQA Cumu	lative + FOU	R PROJECT	S	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Project(s) Responsible for Change in Lanes
66.2	Jackson Rd	14th Ave	Rock Creek Pkwy	4	Arterial M	40,490	1.12	F	4	Arterial M	64,740	1.80	F	
66.3	Jackson Rd	Rock Creek Pkwy	Aspen 1 Dwy	4	Arterial M	34,850	0.97	Е	4	Arterial M	61,240	1.70	F	
71.1	Jackson Rd	Excelsior Rd	Collector JT-3	2	Rural Hwy	23,230	1.01	F	4	Arterial M	62,780	1.74	F	Jackson Township
71.2	Jackson Rd	Collector JT-3	Tree View Ln	2	Rural Hwy	23,250	1.02	F	4	Arterial M	48,960	1.36	F	Jackson Township
71.3	Jackson Rd	Tree View Ln	Collector JT-4	2	Rural Hwy	23,210	1.01	F	4	Arterial M	42,560	1.18	F	Jackson Township
71.4	Jackson Rd	Collector JT-4	Eagles Nest Rd	2	Rural Hwy	23,230	1.01	F	4	Arterial M	39,060	1.09	F	Jackson Township
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	4	Arterial M	31,990	0.89	D	4	Arterial M	46,130	1.28	F	
79	Kiefer Blvd	Sunrise Blvd	Rancho Cordova Pkwy	4	Arterial M	20,550	0.57	А	4	Arterial M	33,880	0.94	E	

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage

**Bold** values do not meet LOS policy. **Red** values with light gray shading indicate project impacts.



Tab	ле 7.5														
CEC	A Cumulative Plus FOUR PROJECTS Intersection Levels of Service - Impacts Triggered by NewBridge Project														
					PM Peak Hour										
	Intersection	CEQA Cumulative No FOUR PROJECTS			CEQA Cum Pf	ulative Plu ROJECTS	is FOUR		CEQA Cumulative No FOUR PROJECTS			CEQA Cumulative Plus FOUR PROJECTS			
		Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact
61	Eagles Nest Road & Florin Road	Two-way stop	F	194.9	Two-way stop	F	>300	Yes	Two-way stop	F	83.9	Two-way stop	F	>300	Yes
	Northbound		F	>300		F	>300			F	>300		F	>300	
	Southbound		F	>300		F	>300			F	>300		F	>300	
	Eastbound Left Turn		В	10.3		В	11.6			А	8.4		А	0.0	
	Westbound Left Turn		А	0.0		А	0.0			А	9.4		A	0.0	
67	Sunrise Boulevard & Douglas Road	Signal	F	142.9	Signal	F	230.7	Yes	Signal	Е	75.5	Signal	F	115.4	Yes
69	Sunrise Boulevard & Kiefer Boulevard	Signal	F	157.5	Signal	F	443.8	Yes	Signal	F	133.4	Signal	F	167.2	Yes
91	Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	F	369.2	Signal	F	358.4	No	Signal	F	314.5	Signal	F	343.5	Yes
93	Grant Line Rd & Dwy/Wilton Rd	Signal	F	85.4	Signal	F	89.1	No	Signal	Е	79.3	Signal	F	103.6	Yes
97	Rock Creek Pkwy & Jackson Road	Signal	F	89.0	Signal	F	201.5	Yes	Signal	D	49.9	Signal	F	188.2	Yes
Note	e: Gray shading represents changes in tr	raffic control that	at the proje	ect is respo	onsible to provid	le.									

Bold values do not meet LOS policy. Red values with light gray shading indicate project impacts.

Table 7.6												
CEQA Cumulative and CEQA Cumulative Plus FOUR PROJECTS Intersection Geometrics - Impacts Triggered by NewBridge Project												
	Traffic	Control		CEQA Cumulative	Lane Geometrics		CEQA Cum	<b>5</b>				
Intersection	Intersection CEQA Cumulativ Cumulative Plus FOUI PROJECT				EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Project(s) Responsible for Change	
61 Eagles Nest Road & Florin Road	Two-way stop	Two-way stop	Ý	*	Ý	Ý	Ý	*	Ý	Ŷ		
67 Sunrise Boulevard & Douglas Road	Signal	Signal	<u>ካ</u> ካ†† ፖ	~+++~~	ካካተተ ሾ	<u>ካካተተ ፖ</u>	ካካተተ ፖ	$\mathbf{v} \uparrow \uparrow \uparrow \mathbf{v} \mathbf{v}$	ካካተተ ሾ	<u>ካካ†††</u> «		
69 Sunrise Boulevard & Kiefer Boulevard	Signal	Signal	511 C	4177	*	۲ r	ካተተ ፖ	4144	ካካተተ ፖ	N 7	NewBridge; Mather South	
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	Signal	ካተተ ፖ	414	*	<u>ካ</u> ሾ	ካተተ ፖ	415	*	<u>ን</u> ሾ		
93 Grant Line Rd & Dwy/Wilton Rd	Signal	Signal	<u>ካ</u> ተ ሾ	414	ካሾ	ካሾ	ntr	415	ኻሾ	ኁሾ		
97 Rock Creek Pkwy & Jackson Road	Signal	Signal	ኻ↑ጽ	245	ኑተ ሾ	ጓተ ሾ	51 <i>r</i>	2   V	ጓተ ሾ	nt ř		

Note: Gray shading represents changes in traffic control or approach lanes that the project is responsible to provide.

#### 7.2.3 CEQA Cumulative Plus NewBridge Project U.S. 50 Freeway Impacts

Based upon the Caltrans' thresholds of significance, any volume contribution to a significant impact of the CEQA Cumulative Plus FOUR PROJECTS scenario is considered significant. Therefore, the impacts of the CEQA Cumulative Plus NewBridge Project scenario are identical to those of the CEQA Cumulative Plus FOUR PROJECTS scenario.

#### 7.2.3.1 Freeway Mainline

Table 6.4 summarizes a.m. and p.m. peak hour US 50 freeway mainline operations. Details of the analysis are included in the technical appendix. The following locations exhibit significant impacts:

- Eastbound
  - Stockton Boulevard to 59th Street a.m. and p.m. peak hours
  - Watt Avenue to Mather Field Road a.m. peak hour
  - Zinfandel Drive to Hazel Avenue p.m. peak hour
- Westbound
  - Watt Avenue to Howe Avenue p.m. peak hour
  - Howe Avenue to 59th Street a.m. and p.m. peak hours
  - 59th Street to SR 99 / SR 51 p.m. peak hour

#### 7.2.3.2 Freeway Ramp Junctions / Weaving

Table 6.5 summarizes a.m. and p.m. peak hour freeway operations at ramp junctions and weaving areas. Details of the analysis are included in the technical appendix. The following locations exhibit significant impacts:

- Eastbound
  - 65th Street to Howe Avenue weave a.m. and p.m. peak hours
  - Bradshaw Road exit a.m. peak hour
  - Mather Field Road to Zinfandel Drive weave a.m. and p.m. peak hours
  - Rancho Cordova Parkway to Hazel Avenue weave a.m. and p.m. peak hours
- Westbound
  - Hazel Avenue to Rancho Cordova Parkway weave a.m. and p.m. peak hours
  - Sunrise Boulevard Entrance Ramp a.m. peak hour
  - Northbound Bradshaw Road Loop Entrance Ramp a.m. peak hour
  - Southbound Bradshaw Road Slip Entrance Ramp a.m. peak hour
  - Southbound Howe Avenue Slip Entrance Ramp a.m. peak hour

#### 7.2.3.3 Freeway Ramp Intersection Queuing

Tables 6.6 and 6.7 summarizes a.m. and p.m. peak hour freeway ramp intersection queuing. The following locations exhibit a significant impact:

- Eastbound
  - Exit ramp to Howe Avenue right turn queue length exceeds available storage
- Westbound
  - Exit ramp to Rancho Cordova Parkway left turn queue length exceeds available storage

#### 7.2.4 CEQA Cumulative Plus NewBridge Project Pedestrian and Bicycle Facility Impacts

The NewBridge project would not remove any existing or planned pedestrian facility. The NewBridge project would not remove any existing bicycle facility or any facility that is planned in the Bikeway Master Plan. The NewBridge project would add pedestrian and bicycle demands within the NewBridge project site and to and from nearby land uses. As illustrated in Figure 3.2, the NewBridge project has proposed changes to the Bikeway Master Plan. Because the NewBridge project would add demand for pedestrian and bicycle facilities that may not be available in the site vicinity, the impact of the NewBridge project on pedestrian and bicycle circulation is potentially significant.

#### 7.2.5 CEQA Cumulative Plus NewBridge Project Transit System Impacts

Public transit would not be provided to the site of the NewBridge project under CEQA Cumulative scenario without development of the NewBridge project. In the preparation of this analysis, a transit system to serve the FOUR PROJECTS was developed (see Section 3.1.2.3). However, the timing and implementation of the transit system are uncertain at this time. The NewBridge project would increase demands for public transit facilities. Therefore, the impact of the NewBridge project on the transit system is potentially significant.

#### 7.2.6 CEQA Cumulative Plus NewBridge Project Functionality Impacts

Table 7.7 summarizes the results of the functionality analysis. Only those segments where an impact would be triggered by the NewBridge project are shown. The table includes the number of lanes assumed with the implementation of the FOUR PROJECTS, which in many cases is greater than the number of lanes in the existing condition. The shaded table cells under the "Travel Lanes" heading illustrates new roadways and widened roadways that are assumed part of the FOUR PROJECTS. The "Substandard?" heading indicates whether or not a roadway meets the County standards of 12-foot lanes and 6-foot shoulders. If the FOUR PROJECTS make improvements to a roadway segment such as widening, they would be required to reconstruct the entire substandard roadway segment to County standards. The shaded table cells under the "Functionality Impact?" heading indicate those locations with a functionality impact.

As stated above, the traffic analysis assumed that the FOUR PROJECTS would construct a number of travel lanes on roadway segments that are internal to or on the boundary of the FOUR PROJECTS, and the entire roadway segment would be reconstructed to County standards at that time. The timing of implementation of such additional traffic lanes on these internal or boundary roadway segments will affect whether or not impacts would exist at some time prior to full build out of the FOUR PROJECTS.

### Table 7.7 **CEQA Cumulative Plus FOUR PROJECTS Functionality Impacts Triggered by NewBridge Project**

		Seg	ment		I	Existing Subs	standard Roadway	ys	CEQA Cumulative + FOUR PROJECTS				
ID	Roadway	From	То	Jurisdiction	Travel Lanes	Pavement (ft)	Substandard? <sup>1</sup>	Existing Volume	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Functionality Impact? <sup>2</sup>	
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	Rancho Cordova/County	2	23	Yes	8,369	6	Arterial M	48,540	Yes <sup>3</sup>	
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	County	2	20	Yes	740	4	Arterial M	15,420	Yes <sup>3</sup>	
25	Elder Creek Rd	South Watt Ave	Hedge Ave	County	2	23	Yes	5,576	4	Arterial M	54,480	Yes <sup>3</sup>	
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	County	2	23	Yes	5,797	4	Arterial M	43,210	Yes <sup>3</sup>	
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	County	2	23	Yes	5,355	4	Arterial M	25,620	Yes <sup>3</sup>	
33	Excelsior Rd	Florin Rd	Gerber Rd	County	2	<21	Yes	5,423	2	Arterial M	14,300	Yes	
39	Florin Rd	South Watt Ave	Hedge Ave	County	2	22	Yes	7,718	4	Arterial M	13,280	Yes <sup>3</sup>	
40	Florin Rd	Hedge Ave	Mayhew Rd	County	2	22	Yes	6,312	4	Arterial M	14,700	Yes <sup>3</sup>	
41	Florin Rd	Mayhew Rd	Bradshaw Rd	County	2	22	Yes	6,317	4	Arterial M	43,130	Yes <sup>3</sup>	
42	Florin Rd	Bradshaw Rd	Excelsior Rd	County	2	22	Yes	3,478	4	Arterial M	29,540	Yes <sup>3</sup>	
43	Florin Rd	Excelsior Rd	Sunrise Blvd	County	2	22	Yes	3,835	2	Arterial M	18,580	Yes	
48	Fruitridge Rd	South Watt Ave	Hedge Ave	City of Sacramento/ County	2	22	Yes	2,890	3	Arterial M	24,970	Yes <sup>3</sup>	
50	Grant Line Rd	White Rock Rd	Douglas Rd	Rancho Cordova/County	2	22	Yes	7,189	4	Arterial M	40,500	Yes <sup>3</sup>	
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	County	2	26	Yes	13,030	6	Arterial M	60,480	Yes <sup>3</sup>	
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	County	2	26	Yes	10,478	4	Arterial M	62,780	Yes <sup>3</sup>	
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	County	2	22	Yes	4,618	6	Arterial M	56,300	Yes <sup>3</sup>	
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	County	2	22	Yes	656	3	Arterial M	37,390	Yes <sup>3</sup>	
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	County	2	<21	Yes	2,848	4	Arterial M	31,690	Yes <sup>3</sup>	

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

<sup>2</sup> Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT.

<sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.

Red text with light gray shading indicate project impacts.



#### 7.3 MITIGATION

#### 7.3.1 CEQA Cumulative Plus NewBridge Project Roadway Segment Mitigation

Table 7.8 summarizes the results of the operations analysis for the study area roadway segments with mitigation. Where feasible, the number of roadway lanes was increased to mitigate the impact. However, the increased number of lanes could not exceed the maximum General Plan designations of the appropriate jurisdictions. The shaded table cells under the "Travel Lanes" and "Facility Type" headings illustrate widened roadways for mitigation purposes, which would be the responsibility of the FOUR PROJECTS to fund. The NewBridge project would contribute a fair share. The shaded table cells under the "Level of Service" heading indicate those locations that would continue to have LOS impacts after mitigation. The table also includes the constraint that precluded full mitigation of the LOS impact.

The "LOS Impact with Mitigation?" column shows whether there is still an LOS impact after the mitigation measure is applied. In other words, this column shows whether a mitigation measure successfully mitigates the impact or not. In several locations where the improvements allowed under the General Plan would not mitigate an LOS impact, the County has proposed alternative mitigation measures, which are shown in the "Alternative Mitigation" column. These alternative mitigation measures will either fully mitigate the impact or substantially reduce the level of impact.

## Table 7.8 CEQA Cumulative Plus FOUR PROJECTS Roadway Segment Mitigations - Impacts Triggered by NewBridge Project

		Seg	ment		CEQA Cumu	lative + FOU	R PROJEC	TS		Miti	gated CEQ	A Cumula	tive + FOUR	PROJECTS	
ID	Roadway	From	То	Travel Lanes	Facility Type <sup>1</sup>	Forecasted Volume	Volume/ Capacity Ratio	Level of Service	Travel Lanes	Facility Type <sup>1</sup>	Volume / Capacity Ratio	Level of Service	LOS Impact with Mitigation?	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
66.2	Jackson Rd	14th Ave	Rock Creek Pkwy	4	Arterial M	64,740	1.80	F	4	Arterial M	1.80	F	Yes		Maximum General Plan lanes
66.3	Jackson Rd	Rock Creek Pkwy	Aspen 1 Dwy	4	Arterial M	61,240	1.70	F	4	Arterial M	1.70	F	Yes		Maximum General Plan lanes
71.1	Jackson Rd	Excelsior Rd	Collector JT-3	4	Arterial M	62,780	1.74	F	6	Arterial M	1.16	F	Yes		Maximum General Plan lanes
71.2	Jackson Rd	Collector JT-3	Tree View Ln	4	Arterial M	48,960	1.36	F	6	Arterial M	0.91	Е	No		
71.3	Jackson Rd	Tree View Ln	Collector JT-4	4	Arterial M	42,560	1.18	F	6	Arterial M	0.79	С	No		
71.4	Jackson Rd	Collector JT-4	Eagles Nest Rd	4	Arterial M	39,060	1.09	F	6	Arterial M	0.72	С	No		
73	Jackson Rd	Sunrise Blvd	Grant Line Rd	4	Arterial M	46,130	1.28	F	6	Arterial M	0.85	D	No		
79	Kiefer Blvd	Sunrise Blvd	Rancho Cordova Pkwy	4	Arterial M	33,880	0.94	Е	4	Arterial M	0.94	Е	Yes		Maximum General Plan lanes

Note: Gray shading represents changes in travel lanes or facility type that the project is responsible to provide.

<sup>1</sup> The following classifications are used to determine daily roadway capacity:

Arterial L - Arterial, Low Access Control

Arterial M - Arterial, Moderate Access Control

Arterial H - Arterial, High Access Control

Rural Hwy - Rural 2-lane Highway

Rural S - Rural 2-lane Road, 24'-36' of pavement, Paved Shoulders

Rural NS - Rural 2-lane Road, 24'-36' of pavement, No Shoulders

Res Collector F - Residential Collector with Frontage

Res Collector NF - Residential Collector with No Frontage

<sup>2</sup> Alternative mitigations represent proposed mitigations beyond the General Plan, as proposed by the County of Sacramento.

Bold values do not meet LOS policy. Red values with light gray shading indicate project impacts.



#### 7.3.2 CEQA Cumulative Plus NewBridge Project Intersection Mitigation

Tables 7.9 and 7.10 summarize the results of the operations analysis for the study area intersections with mitigation. However, the increased number of lanes on each approach does not exceed the County's standard number of approach lanes. Shaded table cells in Table 7.10 indicate those locations where changes in traffic control and / or number of approach lanes by type have been made to mitigate impacts, which would be the responsibility of the FOUR PROJECTS to fund. The NewBridge project would contribute a fair share. The shaded table cells in Table 7.9 under the "Level of Service" heading indicate those locations with an LOS impact after mitigation. Table 7.10 also identifies those intersections that would continue to have LOS impacts after mitigation, along with the constraint that precluded full mitigation. Detailed analysis information is included in the technical appendix.

The "LOS Impact with Mitigation?" column shows whether there is still an LOS impact after the mitigation measure is applied. In other words, this column shows whether a mitigation measure successfully mitigates the impact or not. In several locations where the LOS impact could not be mitigated by implementing the County's standard number of approach lanes, the County has proposed alternative mitigation measures, which are shown in the "Alternative Mitigation" column. These generally include providing additional turn lanes, carrying an additional through lane past the intersection, or designating the intersection as a High Capacity Intersection. These alternative mitigation measures will either fully mitigate the impact or substantially reduce the level of impact.

#### High Capacity Intersections

Three intersections are currently designated as "High Capacity Intersections" on the County's General Plan: Watt Avenue & Folsom Boulevard, Watt Avenue & Kiefer Boulevard, and Watt Avenue & Jackson Road. At two intersections on Bradshaw Road where an LOS impact could not be mitigated by implementing the County's standard number of approach lanes, the County has proposed alternative mitigation measures by designating those two intersections as High Capacity Intersections: Bradshaw Road & Mayhew Road and Bradshaw Road & Jackson Road.

A high capacity intersection would utilize special treatments to increase the capacity of the intersection so as to reduce congestion and travel delay. Since each intersection could have unique travel movements, volumes and existing context sensitive conditions, the special treatments utilized at each high capacity intersection will be selected to meet the specific needs of each intersection. The range of special treatments is quite wide, ranging from the restriction of certain turning movements to various combinations that could include grade separating certain movements. While the field of traffic engineering is ever expending and evolving resulting in the use of new technologies and treatments, special treatments such as the following could be utilized at a high capacity intersection:

- Restricting turning movements
- Median U-turns
- Roundabouts
- Split intersections

- Quadrant roadway intersections
- Bowtie intersections
- Directional flyovers
- Center turn overpass
- Grade separated Roundabout
- Diverging diamond grade separation
- Compact diamond grade separation
- Single point urban grade separation
- Traditional urban grade separation

The County has conducted conceptual engineering to define potential improvements at the three study area intersections on Watt Avenue that are currently designated as "High Capacity Intersections" on the County's General Plan. These are:

- At the **Watt Avenue & Folsom Boulevard** intersection, the County proposes an ultimate configuration involving grade separation of the northbound and southbound through movements of Watt Avenue. Access to and from Folsom Boulevard would be accomplished via on and off-ramps from the left lanes of Watt Avenue to a single signalized intersection. A bus rapid transit (BRT) lane along Watt Avenue would also intersect Folsom Boulevard at the traffic signal. This design is consistent with the recommendations of the South Watt Area Transportation Study (SWATS) dated November 1, 2002 and approved by the Board of Supervisors on November 26, 2002, and with the planning study for the *State Route 16 (Jackson Road) Corridor Study* (Fehr & Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.
- At the Watt Avenue & Kiefer Boulevard intersection, the County proposes a tight diamond interchange as the ultimate improvement. The through movements (and BRT lane) on Watt Avenue would be grade separated from Kiefer Boulevard. Access to and from Kiefer Boulevard would be accomplished via on and off-ramps at two signalized intersections along Kiefer Boulevard. This design is proposed in the planning study prepared for *State Route 16 (Jackson Road) Corridor Study* (Fehr & Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.
- At the Watt Avenue & Jackson Road intersection, the County proposes a standard sixby-six signalized intersection (two left-turn lanes, three through lanes, and one right-turn lane, on each approach) with three modifications. 1) The southbound left-turn movement would be grade separated; 2) The westbound right-turn movement would be grade separated; and 3) Three northbound left-turn lanes are proposed. This configuration represents an enhanced version of Alternative 6 in the planning study prepared for *State*

*Route 16 (Jackson Road) Corridor Study* (Fehr and Peers, 2012). It should be noted that the State Route 16 study has only had a staff-level review done by Caltrans, Sacramento County Department of Transportation, City of Rancho Cordova, and City of Sacramento. Other equivalent mitigation measures may be selected to the satisfaction of the Department of Transportation to mitigate the project's impact.

At the two new proposed "High Capacity Intersections" along Bradshaw Road, the ultimate configurations have not been defined. A number of improvement options involving one or more of the special treatments identified above could be defined that would mitigate the LOS impact at these locations. Since each of these intersections have unique travel movements, volumes and existing context sensitive conditions (potential environmental issues, right-of-way, physical constraints, etc.), the special treatments utilized at each location will need to be studied to select the treatments that mitigate the LOS impact, while avoiding or minimizing other impacts. At Bradshaw Road & Mayhew Road, heavy southbound right turns and westbound left turns suggest that a combination of triple left-turn lanes, dual right-turn lanes and/or overlap phasing may be effective. A high conflicting northbound and southbound volume suggests that grade separating one or more movements may also be necessary to fully mitigate the LOS impact. At Bradshaw Road & Jackson Road, the critical movements are the conflicting through volumes on all approaches. Grade separating either the Bradshaw Road or Jackson Road through movements is likely the only option that would mitigate the LOS impact at this location.

#### 7.3.3 CEQA Cumulative Plus NewBridge Project U.S. 50 Freeway Mitigation

According to Caltrans' US-50 Transportation Concept Report (TCR) and Corridor System Management Plan (CSMP), all mainline freeway lanes of the 8-lane ultimate facility (4 lanes in each direction) have already been built, with the exception of the segment between Zinfandel Drive and Sunrise Boulevard (where 6 of the 8 ultimate lanes exist today). With the exception of this segment, capacity improvements to widen the freeway mainline are precluded by the ultimate configuration in the TCR/CSMP. The TCR/CSMP does conceptualize other projects that will benefit the US-50 corridor without adding additional mainline travel lanes. These improvements generally fall into one of three categories:

- Intelligent transportation systems (ITS) and integrated corridor management (ICM) projects. Some examples may include ramp metering and multimodal improvements.
- Improvements to parallel local facilities. Such projects are expected to reduce travel demand on US-50.
- Future HOV lanes and auxiliary lanes. These projects would extend, or bridge gaps in, the existing HOV and auxiliary lane network. Constructing these lanes is permissible even when further widening of the mainline is not allowable, and is consistent with the ultimate configuration in the TCR/CSMP.

The NewBridge project shall participate in one or more of these alternative improvements that could directly reduce the severity of the project's impact and/or provide operational benefits to the US-50 corridor in general.

#### 7.3.3.1 US-50 Eastbound Alternative Improvements

To lessen the impact to the eastbound US-50 mainline between Stockton Boulevard and 59th Street, the project may pay a fair share toward the construction of:

• Ramp meter improvements (Caltrans ITS/OPS Project List)

To lessen the impact to the eastbound US-50 weave between 65th Street and Howe Avenue, the project may pay a fair share toward the construction of:

- Ramp meter improvements (Caltrans ITS/OPS Project List)
- Widen 65th Street to 5 lanes from US-50 to Broadway (2035 SACOG MTP)

To lessen the impact to the eastbound US-50 mainline between Watt Avenue and Mather Field Road, and to the Bradshaw Road exit, and to the weave between Mather Field Road and Zinfandel Drive, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Bradshaw Road and Mather Field Road (2035 SACOG MTP)
- An interchange modification of US-50 at Mather Field Road (2035 SACOG MTP)

To lessen the impact to the eastbound US-50 mainline between Zinfandel Drive and Hazel Avenue, and to the weave between Rancho Cordova Parkway and Hazel Avenue, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Zinfandel Drive and Sunrise Boulevard (2035 SACOG MTP)
- Auxiliary lanes between Sunrise Boulevard and Hazel Avenue (2035 SACOG MTP)
- Widen Sunrise Boulevard to 6 lanes with special treatments, including intersection improvements at White Rock Road, Folsom Boulevard, Coloma Road, Gold Express Drive, and Gold Country Boulevard (2035 SACOG MTP)
- A new interchange at Rancho Cordova Parkway, including a 4-lane arterial from US-50 to White Rock Road (2035 SACOG MTP)
- Multi-modal corridor improvements and interchange improvements at Hazel Avenue (2035 SACOG MTP)

#### 7.3.3.2 US-50 Westbound Alternative Improvements

To lessen the impact to the westbound US-50 weave between Hazel Avenue and Rancho Cordova Parkway, the project may pay a fair share toward the construction of:

- Multi-modal corridor improvements and interchange improvements at Hazel Avenue (2035 SACOG MTP)
- Auxiliary lanes between Hazel Avenue and Rancho Cordova Parkway (2035 SACOG MTP)

To lessen the impact to the westbound US-50 on-ramp at Sunrise Boulevard, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Sunrise Boulevard and Zinfandel Drive (2035 SACOG MTP)
- A transition lane from the Sunrise Boulevard slip off-ramp to the Sunrise Boulevard slip on-ramp (2035 SACOG MTP)

To lessen the impact to the westbound US-50 mainline between Mather Field Road and Bradshaw Road, and to the SB Bradshaw Road slip on-ramp, the project may pay a fair share toward the construction of:

- Auxiliary lanes between Mather Field Road and Bradshaw Road (2035 SACOG MTP)
- An interchange modification of US-50 at Mather Field Road (2035 SACOG MTP)

To lessen the impact to the westbound US-50 mainline between Watt Avenue and SR-51/SR-99, and to the SB Howe Avenue slip on-ramp, the project may pay a fair share toward the construction of:

- Bus/HOV lanes from Watt Avenue to Downtown Sacramento (2035 SACOG MTP)
- Replacement of existing communication lines with fiber optics to improve performance between SR-51/SR-99 and Watt Avenue (2013 10-Year SHOPP Plan)
- Auxiliary lane between the NB Howe Avenue on-ramp and the SB Howe Avenue on-ramp (2035 SACOG MTP)
- Ramp meter improvements (Caltrans ITS/OPS Project List)

#### 7.3.4 CEQA Cumulative Plus NewBridge Project Pedestrian and Bicycle Facility Mitigation

The NewBridge project applicant shall coordinate with Sacramento County to identify the necessary on- and off-site pedestrian and bicycle facilities to serve the proposed development. These facilities shall be incorporated into the NewBridge project and could include sidewalks, stop signs, standard pedestrian and school crossing warning signs, lane striping to provide a bicycle lane, bicycle parking, signs to identify pedestrian and bicycle paths, raised crosswalks, pedestrian signal heads, and all appropriate traffic calming measures as defined in the County's Neighborhood Traffic Management Program (NTMP). Sidewalks would be required as part of the frontage improvements along all new roadway construction in the NewBridge project vicinity in conformance with County design standards. Circulation and access to all proposed public spaces shall include sidewalks that meet Americans with Disabilities Act standards.

#### 7.3.5 CEQA Cumulative Plus NewBridge Project Transit System Mitigation

The applicant of the NewBridge project shall coordinate with Regional Transit (or other transit operators) to provide the additional transit facilities and services assumed in transportation analysis (see Section 3.1.2.3), or a cost-effective equivalent level of transit facilities and services.

The assumed transit routes and service frequency would be required at full development of the NewBridge project. The full level of transit service would not achieve adequate transit ridership during the early stages of development. Thus the ultimate transit service, like the roadway system serving the NewBridge project, must be phased with development of the NewBridge project.

#### 7.3.6 CEQA Cumulative Plus NewBridge Project Functionality Mitigation

Table 7.11 summarizes the results of the functionality analysis for the rural roadway segments with mitigation.

	e 7.9 14 Cumulative Plus FOLIR PRO IECTS Im	nacted Intersec	tions and	Mitigation	e - Imnacte Tric	idered by New	Bridge Proj	ect							
	AM Peak Hour								PM Peak Hour						
		CEQA Cumulative Plus FOUR PROJECTS			Mitigated CEQA Cumulative Plus FOUR PROJECTS		CEQA Cum PF	CEQA Cumulative Plus FOUR PROJECTS			Mitigated CEQA Cumulative Plus FOUR PROJECTS				
	Intersection	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)	Control	Int LOS	Delay (sec)	LOS Impact	Control	Int LOS	Delay (sec)
61	Eagles Nest Road & Florin Road	Two-way stop	F	>300	Yes	Signal	E	76.1	Two-way stop	F	>300	Yes	Signal	E	62.4
	Northbound		F	>300						F	>300				
	Southbound		F	>300						F	>300				
	Eastbound Left Turn		В	11.6						Α	0.0				
	Westbound Left Turn		А	0.0						Α	0.0				
67	Sunrise Boulevard & Douglas Road	Signal	F	230.7	Yes	Signal	F	230.5	Signal	F	115.4	Yes	Signal	F	114.7
69	Sunrise Boulevard & Kiefer Boulevard	Signal	F	443.8	Yes	Signal	F	88.7	Signal	F	167.2	Yes	Signal	E	59.3
91	Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	F	358.4	No				Signal	F	343.5	Yes	Signal	F	280.3
93	Grant Line Rd & Dwy/Wilton Rd	Signal	F	89.1	No				Signal	F	103.6	Yes	Signal	E	55.8
97	Rock Creek Pkwy & Jackson Road	Signal	F	201.5	Yes				Signal	F	188.2	Yes			
Not	e: Gray shading represents changes in tr	raffic control that	at the proje	ect is respo	onsible to provi	ide.									

Bold values do not meet LOS policy. Red values with light gray shading indicate project impacts.

CEQA Cumulative Plus FOUR PROJECT	S Intersection I	mpacts and Mit	igations - Impac	ts Triggered by	NewBridge Proj	ect									
	Traffic	Control	CEQA Cumula	CEQA Cumulative Plus FOUR PROJECTS Lane Geometrics			Mitigated CEQA Cumulative Plus FOUR PROJECTS Lane Geometrics				luovaat	1.00			
Intersection	CEQA Cumulative Plus FOUR PROJECTS	Mitigated CEQA Cumulative Plus FOUR PROJECTS	NB Approach	SB Approach	EB Approach	WB Approach	NB Approach	SB Approach	EB Approach	WB Approach	Caused by NewBridge Alone?	Impact with Mitgation?	High Capacity Intersection? <sup>1</sup>	Alternative Mitigation <sup>2</sup>	Constraint if Full Mitigation Not Possible
61 Eagles Nest Road & Florin Road	Two-way stop	Signal	*	*	*	*	ъዮ	45	5 ř	5 ř	Yes	No	No		
67 Sunrise Boulevard & Douglas Road	Signal	Signal	<u>ካካ⊺⊺⊺ ፖ</u>	NT T T R R	<u>ካ</u> ካተተ ሥ	55111 C	<u>ካካተተ ለ</u>	211177	55111 C	55111 C	Yes	Yes	No		Maximum General Plan Ianes
69 Sunrise Boulevard & Kiefer Boulevard	Signal	Signal	<u> ነ</u> ተ ተ	4122	<u>ካካተተ ፖ</u>	٦ P	<u>ההורר</u>	~+++~~	<u>ካካ††</u> ፖ	5511 C	Yes	No	No		
91 Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd	Signal	Signal	ጓጎጎ ፖ	414	*	<u>٦</u> ٢	ንተተ ፖ	415	٦ŕ	זר	Yes	No	No		
93 Grant Line Rd & Dwy/Wilton Rd	Signal	Signal	<u>ካ</u> ተዮ	415	<u>ካ</u> ኛ	ካሾ	ጓተኛ	4144	5 ř	<u>٦</u> ٢	Yes	No	No		
97 Rock Creek Pkwy & Jackson Road	Signal	Signal	<u>ካ</u> ተ ፖ	2 L K	51 P	51 P	<u>ካ</u> ተ ፖ		51 P	51 P	Yes	Yes	No		Maximum General Plan lanes
<sup>1</sup> High capacity intersections are def <sup>2</sup> Alternative mitigations represent p	ined in the Sa roposed mitiga	cramento Co ations beyond	unty General F I the General F	Plan and may Plan, excluding	include grade	separations, a	dditional turn la as proposed l	anes, and/or o by the County	ther features a of Sacramento	as deemed app o.	propriate by	the County	/.		

Note: Gray shading represents changes in traffic control or approach lanes that the project is responsible to provide.

## Table 7.11 CEQA Cumulative Plus FOUR PROJECTS Functionality Mitigations - Impacts Triggered by NewBridge Project

		Segment			QA Cumulativ	ve + FOUR PR		Turne et efter	
ID	Roadway	From	То	Travel	Facility	Forecasted	Functionality	Mitigation	Impact after Mitigation?
		FTOIII	10	Lanes	Type <sup>1</sup>	Volume	Impact? <sup>2</sup>		winigation:
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd	6	Arterial M	48,540	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd	4	Arterial M	15,420	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
25	Elder Creek Rd	South Watt Ave	Hedge Ave	4	Arterial M	54,480	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
26	Elder Creek Rd	Hedge Ave	Mayhew Rd	4	Arterial M	43,210	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd	4	Arterial M	25,620	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
33	Excelsior Rd	Florin Rd	Gerber Rd	2	Arterial M	14,300	Yes	Widen to County standards <sup>5</sup>	No
39	Florin Rd	South Watt Ave	Hedge Ave	4	Arterial M	13,280	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
40	Florin Rd	Hedge Ave	Mayhew Rd	4	Arterial M	14,700	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
41	Florin Rd	Mayhew Rd	Bradshaw Rd	4	Arterial M	43,130	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
42	Florin Rd	Bradshaw Rd	Excelsior Rd	4	Arterial M	29,540	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
43	Florin Rd	Excelsior Rd	Sunrise Blvd	2	Arterial M	18,580	Yes	Widen to County standards <sup>5</sup>	No
48	Fruitridge Rd	South Watt Ave	Hedge Ave	3	Arterial M	24,970	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
50	Grant Line Rd	White Rock Rd	Douglas Rd	4	Arterial M	40,500	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
70	Jackson Rd	Bradshaw Rd	Excelsior Rd	6	Arterial M	60,480	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd	4	Arterial M	62,780	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
77	Kiefer Blvd	Bradshaw Rd	Happy Ln	6	Arterial M	56,300	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd	3	Arterial M	37,390	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd	4	Arterial M	31,690	Yes <sup>3</sup>	Widen to County standards <sup>5</sup>	No

Note: Gray shading indicates changes in travel lanes or facility type that the project is responsible to provide. For all roadway segments to be widened, the project is responsible to build the entire roadway to County standards.

<sup>1</sup> Substandard rural roads are defined as rural, 2-lane roadway segments with travel lanes narrower than 12 feet and/or roadside shoulders narrower than 6 feet.

 $^{2}$  Functionality impacts are triggered when a substandard rural road increases over a threshold of 6,000 ADT, or for a roadway already above 6,000 ADT, increases by more than 600 ADT.

<sup>3</sup> The potential for an impact exists should the project generate traffic volumes on the roadway exceeding 6,000 ADT, or increasing more than 600 ADT on a roadway already above 6,000 ADT, prior to the construction of roadway improvements.

<sup>4</sup> Excluding the roadway segment that is within the developed community of Independence at Mather.

<sup>5</sup> The functionality impact is mitigated by improving the roadway to County standards, including widening travel lanes to 12 feet and/or widening or providing paved shoulders to 6 feet.

Red text with light gray shading indicate project impacts.



#### 7.3.7 CEQA Cumulative Plus NewBridge Project Mitigation Summary

Tables 7.12 and 7.13 summarize the mitigation success for the roadway segments and intersections that exhibit significant LOS impacts. Table 7.14 summarizes the mitigation success for the rural roadway segments that exhibit functionality impacts. Tables 6.13 through 6.15 summarize the mitigation success for the freeway system facilities that exhibit significant impacts.

# Table 7.12CEQA Cumulative Plus FOUR PROJECTSSummary of Impacted Roadway Segments Triggered by NewBridge Project



ID	Deadway	Segi	nent		
ID	Koauway	From	То		
	Level of Service Impa	ct Fully Mitigated by Gene	eral Plan Lanes		
71.2	Jackson Rd	Collector JT-3	Tree View Ln		
71.3	Jackson Rd	Tree View Ln	Collector JT-4		
71.4	Jackson Rd	Collector JT-4	Eagles Nest Rd		
73	Jackson Rd	Sunrise Blvd	Grant Line Rd		
	Level of Service Impact	Not Fully Mitigated by Ge	neral Plan Lanes		
66.2	Jackson Rd	14th Ave	Rock Creek Pkwy		
66.3	Jackson Rd	Rock Creek Pkwy	Aspen 1 Dwy		
71.1	Jackson Rd	Excelsior Rd	Collector JT-3		
79 Kiefer Blvd		Sunrise Blvd	Rancho Cordova Pkwy		

Note: Refer to Table 7.8 for detailed description of impacts and mitigations.

Tabl	e 7.13						
CEQ Sum	EQA Cumulative Plus FOUR PROJECTS - Summary of Intersection Impacts Triggered by NewBridge Project						
	Intersection	Alternative Mitigation					
	Level of Service Impact Fully Mitigated by General Plan Lanes						
61	Eagles Nest Road & Florin Road						
69	Sunrise Boulevard & Kiefer Boulevard						
91	Grant Line Rd & Eagles Nest Rd/Sloughhouse Rd						
93	Grant Line Rd & Dwy/Wilton Rd						
	Level of Service Impact Not Fully Mitigated by General Plan Lanes						
67	Sunrise Boulevard & Douglas Road						
97	97 Rock Creek Pkwy & Jackson Road						
<sup>1</sup> Alt high	Alternative mitigations represent proposed mitigations beyond the General Plan, excluding designated high capacity intersections, as proposed by the County of Sacramento.						
* de⊧ ** d€	denotes alternative mitigations that improve operations but do not fully mitigate the impact. * denotes alternative mitigations that fully mitigate the impact.						

# Table 7.14CEQA Cumulative Plus FOUR PROJECTSSummary of Functionality Impacts Triggered by NewBridge Project



		Segment									
ID	Roadway	From	То								
	Functionality Impact Fully Mitigated										
16	Douglas Rd	Zinfandel Dr	Sunrise Blvd								
19	Eagles Nest Rd	Kiefer Blvd	Jackson Rd								
25	Elder Creek Rd	South Watt Ave	Hedge Ave								
26	Elder Creek Rd	Hedge Ave	Mayhew Rd								
27	Elder Creek Rd	Mayhew Rd	Bradshaw Rd								
33	Excelsior Rd	Florin Rd	Gerber Rd								
39	Florin Rd	South Watt Ave	Hedge Ave								
40	Florin Rd	Hedge Ave	Mayhew Rd								
41	Florin Rd	Mayhew Rd	Bradshaw Rd								
42	Florin Rd	Bradshaw Rd	Excelsior Rd								
43	Florin Rd	Excelsior Rd	Sunrise Blvd								
48	Fruitridge Rd	South Watt Ave	Hedge Ave								
50	Grant Line Rd	White Rock Rd	Douglas Rd								
70	Jackson Rd	Bradshaw Rd	Excelsior Rd								
71	Jackson Rd	Excelsior Rd	Eagles Nest Rd								
77	Kiefer Blvd	Bradshaw Rd	Happy Ln								
78	Kiefer Blvd	Zinfandel Dr	Sunrise Blvd								
123	Zinfandel Dr	Douglas Rd	Kiefer Blvd								

### 8. NEWBRIDGE ALTERNATIVES ANALYSIS

#### 8.1 INTRODUCTION

The NewBridge project proposes four additional alternatives for analysis, in addition to the base alternative. The additional alternatives are further described in Section 8.3, but are identified as follows:

- Alternative 1: Increased Density, Smaller Footprint
- Alternative 2: Maximized Wetland Avoidance
- Alternative 3: Decreased Greenhouse Gas (GHG) Emissions and Vehicle Miles Traveled (VMT)
- Alternative 4: Buildout of Existing Zoning

The analysis for the NewBridge project (base alternative) can be found in Section 3 (existing conditions) and Sections 6 and 7 (CEQA cumulative conditions). Please refer to those sections for the transportation analysis of the project. Note that this alternatives analysis provides a comparison of the impacts of the alternatives *relative* to the impacts of the project.

Two types of analyses are typically used to evaluate the traffic impacts of a proposed project or alternative: quantitative analysis and qualitative analysis. **Quantitative** analysis includes running a travel demand model and using forecasted volumes to conduct level of service analysis, VMT-related calculations, and evaluate other measures of performance. **Qualitative** analysis may or may not include running a travel demand model, but takes a more macro approach to evaluating traffic operations. Instead of making numerous calculations at each intersection and roadway segment, a qualitative approach to analyzing an alternative may look at the project as a whole and analyze whether traffic volumes generally decreased, increased, or remained constant. A qualitative approach may also evaluate if changes to proposed land use caused traffic patterns to shift temporally and / or spatially.

#### 8.2 METHODOLOGY

A "hybrid" approach was selected for the analysis of the NewBridge project alternatives. A hybrid analysis consists of an existing plus project alternative travel demand model run that provides quantitative data for person and vehicle trip generation, mode split, average daily traffic (ADT), and VMT inputs needed for air quality/greenhouse gas (GHG) emissions analysis, but no further detailed traffic analysis (level of service calculations).

For a description of the study area, forecasting and operations analysis methodology, level of service policies, and standards of significance, please refer to the base project documentation in Chapter 2 of this report.

#### **8.3 ALTERNATIVE DESCRIPTIONS**

#### **8.3.1 Description of Alternative 1 – Increased Density, Smaller Footprint**

Alternative 1 proposes to increase the density of the project, in order to decrease its overall footprint. This is accomplished by changing some of the low density parcels to medium density, medium density to high density and/or mixed use, and increasing the area of open space. The net effect of these changes is shifting 600 low and medium density units to high density. There were small adjustments to the acreage, and therefore square footage, of non-residential uses.

Table 8.1 summarizes the NewBridge Alternative 1 land use. Table 8.2 shows the difference in dwelling unit and square footage totals between the base project and Alternative 1. Figure 8.1 shows the proposed land use map of Alternative 1.

Table 8.1: Land Use Summary for the NewBridge Alternative 1 – Increased Density,
Smaller Footprint

		Residential			Non-Residential		
Land Use Category	Acres	Density Range	Ave Density	Dwelling Units	Floor Area Ratio	Estimated Square Feet	
Low Density	144.1	< 7	4.6	660			
Medium Density	68.2	7 – 12.9	10.3	705			
High Density	59.6	13 – 30	26.0	1,550			
High Density Bonus Units <sup>1</sup>				57			
Commercial	21.0				0.227	207,800	
Mixed Use	15.0	> 30		160	0.255	166,700	
Office	13.8				0.295	177,400	
Park	39.7						
Open Space	564.4						
Elementary School	10.3						
Other Public/Quasi-Public	2.8						
Major Roads	51.0						
Agriculture (Ag Res)	105.4			660		60,000	
Total	1,095.3			3,792		611,900	
<sup>1</sup> Includes bonus units in both Source: Project Applicant	the high dens	sity and mixed	l use areas.				

### Table 8.2: Change in Land Use Totals Between Base Project and NewBridge Alternative 1 – Increased Density, Smaller Footprint

		Residential	Non-Residential
Land Use Category	Acres	Dwelling Units	Estimated Square Feet
Low Density	-81.1	-425	
Medium Density	-39.1	-175	
High Density	+22.3	+600	
High Density Bonus Units <sup>1</sup>		-56	
Commercial	+1.8		+17,800
Mixed Use	+3.3	0	+36,700
Office	-0.2		-2,600
Park	-1.6		
Open Space	+92.7		
Elementary School	+0.9		
Other Public/Quasi-Public	0.0		
Major Roads	+1.0		
Agriculture (Ag Res)	0.0	0	0
Total	0.0	-56	+51,900

Source: Project Applicant and DKS Associates, 2015.



Figure 8.1: Land Use Map of NewBridge Alternative 1 – Increased Density, Smaller Footprint

#### **8.3.2 Description of Alternative 2 – Maximized Wetland Avoidance**

Alternative 2 was crafted to maximize the avoidance of wetlands. This is accomplished by sharply reducing the number of dwelling units across all densities in order to increase the area of open space. The net effect of these changes is a loss of over 850 units, compared to the base project. This alternative slightly increases the commercial square footage, but completely eliminates the office land use.

Table 8.3 summarizes the NewBridge Alternative 2 land use. Table 8.4 shows the difference in dwelling unit and square footage totals between the base project and Alternative 2. Figure 8.2 shows the proposed land use map of Alternative 2.

		]	Residential		Non-Residential		
Land Use Category	Acres	Density Range	Ave Density	Dwelling Units	Floor Area Ratio	Estimated Square Feet	
Low Density	177.2	<7	5.2	925			
Medium Density	62.4	7 – 12.9	9.1	565			
High Density	27.6	13 - 30	23.7	655			
High Density Bonus Units <sup>1</sup>				28		<u> </u>	
Commercial	23.9				0.227	236,500	
Mixed Use	13.8	> 30		160	0.216	130,000	
Office	N/A		<u> </u>	[]		<u> </u>	
Park	34.0						
Open Space	586.9		<u> </u>				
Elementary School	10.3						
Other Public/Quasi-Public	2.8						
Major Roads	51.0		Τ			Г <u> </u>	
Agriculture (Ag Res)	105.4			660		60,000	
Total	1,095.3			2,993		426,500	

## Table 8.4: Change in Land Use Totals Between Base Project and NewBridge Alternative 2 – Maximized Wetland Avoidance

		Residential	Non-Residential			
Land Use Category	Acres	Dwelling Units	Estimated Square Feet			
Low Density	-48.0	-160				
Medium Density	-44.9	-315				
High Density	-9.7	-295				
High Density Bonus Units <sup>1</sup>		-85				
Commercial	+4.7		+46,500			
Mixed Use	+2.1	0	0			
Office	-14.0		-180,000			
Park	-7.3					
Open Space	+115.2					
Elementary School	+0.9					
Other Public/Quasi-Public	0.0					
Major Roads	+1.0					
Agriculture (Ag Res)	0.0	0	0			
Total	0.0	-855	-133,500			
<sup>1</sup> Includes bonus units in both the high density and mixed use areas. <i>Source: Project Applicant and DKS Associates</i> , 2015.						


Figure 8.2: Land Use Map of NewBridge Alternative 2 - Maximized Wetland Avoidance

### 8.3.3 Description of Alternative 3 – Decreased GHG Emissions and VMT

Alternative 3 was developed to minimize greenhouse gas (GHG) emissions and vehicle miles traveled (VMT). This is accomplished by altering the roadway system to a more grid-like network, improving connectivity, walkability, and bikeability. The Alternative 3 roadway network would require installation of a new traffic signal on Sunrise Boulevard, which does not exist under the base project and would have to be coordinated with the City of Rancho Cordova. The net effect of the proposed changes is a loss of approximately 300 units and moderate increases to retail and office square footage, compared to the base project.

Table 8.5 summarizes the NewBridge Alternative 3 land use. Table 8.6 shows the difference in dwelling unit and square footage totals between the base project and Alternative 3. Figure 8.3 shows the proposed land use map of Alternative 3.

		]	Residential		Non-	Residential
Land Use Category	Acres	Density Range	Ave Density	Dwelling Units	Floor Area Ratio	Estimated Square Feet
Low Density	248.3	< 7	4.8	1,180		
Medium Density	92.0	7 – 12.9	7.6	700		
High Density	32.4	13 – 30	25.0	810		
High Density Bonus Units <sup>1</sup>				34		
Commercial	21.0				0.227	207,800
Mixed Use	11.4	> 30		160	0.255	126,700
Office	19.0				0.295	244,200
Park	39.0					
Open Space	463.2					
Elementary School	10.3					
Other Public/Quasi-Public	2.8					
Major Roads	50.5					
Agriculture (Ag Res)	105.4			660		60,000
Total	1,095.3			3,544		638,700

# Table 8.6: Change in Land Use Totals Between Base Project and NewBridge Alternative 3 – Decreased GHG Emissions and VMT

		Residential	Non-Residential
Land Use Category	Acres	Dwelling Units	Estimated Square Feet
Low Density	+23.1	+95	
Medium Density	-15.3	-180	
High Density	-4.9	-140	
High Density Bonus Units <sup>1</sup>		-79	
Commercial	+1.8		+17,800
Mixed Use	-0.3	0	-3,300
Office	+5.0		+64,200
Park	-2.3		
Open Space	-8.5		
Elementary School	+0.9		
Other Public/Quasi-Public	0.0		
Major Roads	+0.5		
Agriculture (Ag Res)	0.0	0	0
Total	0.0	-304	+78,700
<sup>1</sup> Includes bonus units in both	the high den	sity and mixed use areas.	

Source: Project Applicant and DKS Associates, 2015.



Figure 8.3: Land Use Map of NewBridge Alternative 3 - Decreased GHG Emissions and VMT

# 8.3.4 Description of Alternative 4 – Buildout of Existing Zoning

Alternative 4 assumed that instead of the proposed project, existing zoning was retained and built out. This alternative has no residential development (with the exception of three single family homes on agriculturally-zoned land), and over 6.5 square million feet of light and heavy industrial use. No other employment besides industrial is assumed in this alternative.

Table 8.7 summarizes the NewBridge Alternative 4 land use. Table 8.8 shows the difference in dwelling unit and square footage totals between the base project and Alternative 4. Figure 8.4 shows the proposed land use map of Alternative 4.

		]	Residential	Non-Residential		
Land Use Category	Acres	Density Range	Ave Density	Dwelling Units	Floor Area Ratio	Estimated Square Feet
Low Density	N/A					
Medium Density	N/A					
High Density	N/A					
High Density Bonus Units <sup>1</sup>	N/A					
Commercial	N/A					
Mixed Use	N/A					
Office	N/A					
Park	N/A					
Open Space	63.8					
Elementary School	N/A					
Other Public/Quasi-Public	N/A					
Major Roads	19.5					
Agriculture	511.7			3		
Light Industrial	197.8					2,584,850
Heavy Industrial	302.5					3,986,070
Total	1,095.3			3		6,570,920

# Table 8.8: Change in Land Use Totals Between Base Project and NewBridge Alternative 4 – Buildout of Existing Zoning

		Residential	Non-Residential
Land Use Category	Acres	Dwelling Units	Estimated Square Feet
Low Density	-225.2	-1,085	
Medium Density	-107.3	-880	
High Density	-37.3	-950	
High Density Bonus Units <sup>1</sup>		-113	
Commercial	-19.2		-190,000
Mixed Use	-11.7	-160	-130,000
Office	-14.0		-180,000
Park	-41.3		
Open Space	-407.9		
Elementary School	-9.4		
Other Public/Quasi-Public	-2.8		
Major Roads	-30.5		
Agriculture (Ag Res)	+406.3	-657	-60,000
Light Industrial	+197.8		+2,584,850
Heavy Industrial	+302.5		+3,986,070
Total	0.0	-3,845	+6,010,920
<sup>1</sup> Includes bonus units in both	the high den	nsity and mixed use areas.	

Source: Project Applicant and DKS Associates, 2015.



Figure 8.4: Land Use Map of NewBridge Alternative 4 - Buildout of Existing Zoning

#### 8.3.5 Land Use Summary and Comparison

A side-by-side comparison of the land use assumptions for the NewBridge project and Alternatives 1 through 4 is provided in Table 8.9. Alternative 1 primarily increases the density of the residential development to allow for more open space. Alternative 2 reduces the magnitude of the overall residential development and does not include any office development, in order to maximize the avoidance of wetlands. Alternative 3 changes the assumed roadway network to be more grid-like, reducing the number of dwelling units and increasing the square footage of non-residential development. Alternative 4 simply assumes that the existing (industrial) zoning remains and is built out.

Land Use Category	<b>Residential Dwelling Units</b>				Non	Non-Residential Estimated Square Feet				
	Base Project	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Base Project	Alt. 1	Alt. 2	Alt. 3	Alt. 4
Low Density	1,085	660	925	1,180						
Medium Density	880	705	565	700						
High Density	950	1,550	655	810						
High Density Bonus Units <sup>1</sup>	113	57	28	34						
Commercial						190,000	207,800	236,500	207,800	
Mixed Use	160	160	160	160		130,000	166,700	130,000	126,700	
Office						180,000	177,400		244,200	
Park										
Open Space										
Elementary School										
Other Public/Quasi-Public										
Major Roads										
Agriculture	660	660	660	660	3	60,000	60,000	60,000	60,000	
Light Industrial										2,584,85
Heavy Industrial										3,986,07
Total	3,848	3,792	2,993	3,544	3	560,000	611,900	426,500	638,700	6,570,92

### 8.4 TRIP GENERATION

### 8.4.1 Alternative 1 Trip Generation

The SACSIM travel demand model was utilized to estimate trip generation and mode split for Alternative 1, using the same methodology as the NewBridge project analysis.

<b>Table 8.9: Estimated Daily Person</b>	<b>Trip Generation</b>	(Existing Plus Alternative 1)
NewBridge Specific Plan	_	_

Trip Purpose	Daily Person Trip Ends
Work Trips	6,865
Non-Work Trips	38,055
All Trip Purposes	44,920
Source: DKS Associates, 2015.	

Table 8.10: Mode Split (Existing Plus Alternative 1)NewBridge Specific Plan							
Percentage of Person Trips by Trip Purpose							
Mode	Work Trips	Non-Work Trips	All Trip Purposes				
Auto - SOV	87.6%	45.4%	51.8%				
Auto - HOV	8.9%	47.1%	41.3%				
Transit	1.4%	0.8%	0.9%				
Walk	1.8%	6.2%	5.5%				
Bike	0.1%	0.6%	0.5%				
Source: DKS Associates,	2015.						

 Table 8.11: Estimated Daily Vehicle Trip Generation (Existing Plus Alternative 1)

 NewBridge Specific Plan

Тгір Туре		AM Peak Hour	PM Peak Hour	Daily	
Total Ve	ehicle Trip Ends	6,370	9,399	30,799	
Percent Ir	nternal Trip Ends <sup>1</sup>	9.4%	11.4%	10.3%	
	Internal to Project	299	537	1,580	
Vehicle Trips	External to Project	5,772	8,324	27,639	
	Total	6,071	8,861	29,219	

<sup>1.</sup> Both trip ends within the project.

# 8.4.2 Alternative 2 Trip Generation

The SACSIM travel demand model was utilized to estimate trip generation and mode split for Alternative 2, using the same methodology as the NewBridge project analysis.

Table 8.12: Estimated Daily Person Trip Generation (Existing Plus Alternative 2)NewBridge Specific Plan					
Trip PurposeDaily Person Trip Ends					
Work Trips	4,905				
Non-Work Trips	29,427				
All Trip Purposes 34,333					
Source: DKS Associates, 2015.					

Table 8.13: Mode Split (Existing Plus Alternative 2)NewBridge Specific Plan								
Percentage of Person Trips by Trip Purpose								
ModeWork TripsNon-Work TripsAll Trip Purposes								
Auto - SOV	87.3%	41.3%	47.9%					
Auto - HOV	10.8%	46.9%	41.7%					
Transit	1.7%	0.7%	0.8%					
Walk	0.1%	4.0%	3.5%					
Bike	0.1%	0.5%	0.4%					
Source: DKS Associates, 2	2015.							

 Table 8.14: Estimated Daily Vehicle Trip Generation (Existing Plus Alternative 2)

 NewBridge Specific Plan

Тгір Туре		AM Peak Hour	PM Peak Hour	Daily
Total Vehicle Trip Ends		4,563	6,618	22,227
Percent Internal Trip Ends <sup>1</sup>		6.8%	8.0%	6.8%
	Internal to Project	154	266	757
Vehicle Trips	External to Project	4,254	6,086	20,714
1	Total	4,408	6,352	21,470

<sup>1.</sup> Both trip ends within the project.

# 8.4.3 Alternative 3 Trip Generation

The SACSIM travel demand model was utilized to estimate trip generation and mode split for Alternative 3, using the same methodology as the NewBridge project analysis.

Table 8.15: Estimated Daily Person Trip Generation (Existing Plus Alternative 3)NewBridge Specific Plan				
Trip Purpose	Daily Person Trip Ends			
Work Trips	7,022			
Non-Work Trips	37,054			
All Trip Purposes 44,076				
Source: DKS Associates, 2015.				

	Percenta	age of Person Trips by T	<b>Frip Purpose</b>
Mode	Work Trips	Non-Work Trips	All Trip Purposes
Auto - SOV	86.1%	47.2%	53.4%
Auto - HOV	10.0%	46.5%	40.7%
Transit	1.8%	0.5%	0.7%
Walk	1.9%	5.2%	4.7%
Bike	0.2%	0.5%	0.5%

 Table 8.17: Estimated Daily Vehicle Trip Generation (Existing Plus Alternative 3)

 NewBridge Specific Plan

Тгір Туре		AM Peak Hour	PM Peak Hour	Daily		
Total Vehicle Trip Ends		6,401	9,394	30,844		
Percent Internal Trip Ends <sup>1</sup>		10.5%	12.0%	10.7%		
	Internal to Project	335	565	1,653		
Vehicle Trips	External to Project	5,730	8,264	27,537		
	Total	6,066	8,829	29,191		
1						

<sup>1.</sup> Both trip ends within the project.

### **8.4.4 Alternative 4 Trip Generation**

The SACSIM travel demand model was utilized to estimate trip generation and mode split for Alternative 4, using the same methodology as the NewBridge project analysis.

Table 8.18: Estimated Daily Person Trip Generation (Existing Plus Alternative 4)NewBridge Specific Plan					
Trip PurposeDaily Person Trip Ends					
Work Trips	5,480				
Non-Work Trips	19,014				
All Trip Purposes 24,494					
Source: DKS Associates, 2015.					

# Table 8.19: Mode Split (Existing Plus Alternative 4)NewBridge Specific Plan

	Percentage of Person Trips by Trip Purpose					
Mode	Work Trips	Non-Work Trips	All Trip Purposes			
Auto - SOV	89.5%	77.7%	80.4%			
Auto - HOV	10.3%	18.1%	16.4%			
Transit	0.0%	0.0%	0.0%			
Walk	0.0%	4.0%	3.1%			
Bike	0.2%	0.1%	0.2%			
Source: DKS Associates, 2015.						

# Table 8.20: Estimated Daily Vehicle Trip Generation (Existing Plus Alternative 4) NewBridge Specific Plan

Тгір Туре		AM Peak Hour	PM Peak Hour	Daily
Total Vehicle Trip Ends		4,659	7,675	21,174
Percent Internal Trip Ends <sup>1</sup>		4.3%	8.4%	5.8%
	Internal to Project	100	322	615
Vehicle Trips	External to Project	4,459	7,031	19,944
	Total	4,559	7,353	20,559
<sup>1.</sup> Both trip end	s within the project.			

# 8.4.5 Trip Generation Summary and Comparison

Table 8.21 provides a comparison of the daily person trip generation between the NewBridge project and the proposed alternatives. All of the proposed alternatives have a lower daily person trip generation than the base project. Alternatives 2 and 4 have a substantially lower daily person trip generation, whereas Alternatives 1 and 3 are close to the base alternative.

Table 8.21: Comparison of Estimated Daily Person Trip Generation							
Trip PurposeBase ProjectAlt. 1Alt. 2Alt. 3Alt.							
Work Trips	7,041	6,865	4,905	7,022	5,480		
Non-Work Trips	38,001	38,055	29,427	37,054	19,014		
All Trip Purposes	45,042	44,920	34,333	44,076	24,494		
Source: DKS Associates, 2	015.						

Table 8.22 provides a comparison of the mode split (for all trip purposes) between the NewBridge project and the proposed alternatives. The base project clearly has the highest mode share of walkers, whereas the SOV, HOV, transit, and bike shares are fairly similar between the base project and Alternatives 1 through 3. Alternative 4 has a very high SOV mode share, which is explainable by the large amount of industrial employment proposed without any nearby (walk, bike, or transit distance) homes.

Table 8.22: Comparison of Mode Split (All Trip Purposes)							
Mode	Base Project	Alt. 1	Alt. 2	Alt. 3	Alt. 4		
Auto - SOV	50.6%	51.8%	47.9%	53.4%	80.4%		
Auto - HOV	38.3%	41.3%	41.7%	40.7%	16.4%		
Transit	1.1%	0.9%	0.8%	0.7%	0.0%		
Walk	9.3%	5.5%	3.5%	4.7%	3.1%		
Bike	0.6%	0.5%	0.4%	0.5%	0.2%		
Source: DKS Associates, 2	Source: DKS Associates, 2015.						

Table 8.23 provides a comparison of daily vehicle trip generation between the NewBridge project and the proposed alternatives. As was the case for daily person trip generation, Alternatives 2 and 4 have a substantially lower daily vehicle trip generation compared to the base project. This is due to the generally lower levels of development in these alternatives. As was the case for daily person trip generation, Alternatives 1 and 3 have similar daily vehicle trip generation numbers, the daily vehicle trip generation numbers are actually slightly higher for Alternatives 1 and 3. This is because the auto mode share (both SOV and HOV) is slightly higher for these alternatives compared to the base project.

Table 8.23: Comparison of Estimated Daily Vehicle Trip Generation							
Т	тір Туре	Base Project	Alt. 1	Alt. 2	Alt. 3	Alt. 4	
Total Ve	ehicle Trip Ends	29,825	30,799	22,227	30,844	21,174	
Percent Internal Trip Ends <sup>1</sup>		16.4%	10.3%	6.8%	10.7%	5.8%	
	Internal to Project	2,448	1,580	757	1,653	615	
Vehicle Trips	External to Project	24,930	27,639	20,714	27,537	19,944	
	Total	27,378	29,219	21,470	29,191	20,559	
Source: DKS	Source: DKS Associates, 2015.						

# 8.5 QUALITATIVE ASSESSMENT OF IMPACTS

This section of the report provides a qualitative comparison of how each alternative compares to the project in terms of trip generation, number of impacts, and travel pattern shifts. Each alternative is evaluated in greater detail in the following subsections, but a summary matrix is provided below in Table 8.24.

Table 8.24: Qualitative Assessment of Impacts Relative to the Base Project						
Trin Type	Alt. 1	Alt. 2	Alt. 3	Alt. 4		
ттр туре		(Relative to th	e Base Project)			
Vehicle Trip Generation	Similar	Less	Similar	Less		
Roadway Segment/ Intersection Impacts	Similar	Less	Similar	More and Less		
Freeway Impacts	Similar	Similar	Similar	Similar		
Travel Pattern Shifts	Minor	Minor	Moderate	Major		
Source: DKS Associates, 2	015.		•	•		

# **8.5.1 Alternative 1 Qualitative Assessment of Impacts**

# 8.5.1.1 Vehicle Trip Generation

Based on Table 8.23, the vehicle trip generation of Alternative 1 is estimated to be similar to the project.

# 8.5.1.2 Number of Impacts

Overall, the daily volumes on the Alternative 1 roadway network are similar to the project. Therefore, Alternative 1 is expected to result in similar roadway segment, intersection, and freeway impacts as the project.

# 8.5.1.3 Shift in Travel Patterns

On all roadways external to the project, there are no volume shifts with a magnitude greater than 400 vehicles per day. Within or bounding the project, the greatest volume shift occurs between the north and south ends of the project. Under Alternative 1, between 2,000 and 3,000 vehicles per day shift from exiting onto Jackson Highway to exiting onto Kiefer Boulevard. This is due to the relocation of more intense land uses (high density residential, mixed use) to the north end of the project. The ADT on Kiefer Boulevard is still below 9,000 (even after the volume shift), so this shift is not expected to result in any additional impacts.

# **8.5.2 Alternative 2 Qualitative Assessment of Impacts**

# 8.5.2.1 Vehicle Trip Generation

Based on Table 8.23, the vehicle trip generation of Alternative 2 is estimated to be less than the project.

# 8.5.2.2 Number of Impacts

Overall, the daily volumes on the Alternative 2 roadway network are less than the project. Therefore, Alternative 2 is expected to result in less roadway segment and intersection impacts as the project. Alternative 2 is expected to result in similar freeway impacts as the project, due to Caltrans significance criteria.

# 8.5.2.3 Shift in Travel Patterns

Alternative 2 project volumes decrease to the north on Sunrise Boulevard by approximately 1,600 ADT, to the west on Jackson Highway by approximately 1,400 ADT, on Elder Creek Road by 600 ADT, and on Florin Road by 800 ADT. The only external volume increase is on Jackson Highway to the east of the project, by approximately 200 ADT. This alternative's loss of over 850 dwelling units and 130,000 square feet of employment, relative to the project, is clearly reflected in the lower traffic volumes.

# **8.5.3 Alternative 3 Qualitative Assessment of Impacts**

# 8.5.3.1 Vehicle Trip Generation

Based on Table 8.23, the vehicle trip generation of Alternative 3 is estimated to be similar to the project.

# 8.5.3.2 Number of Impacts

Overall, the daily volumes on the Alternative 3 roadway network are similar to the project. Therefore, Alternative 3 is expected to result in similar roadway segment, intersection, and freeway impacts as the project.

# 8.5.3.3 Shift in Travel Patterns

On all roadways external to the project, there are no volume shifts with a magnitude greater than 600 vehicles per day. Within or bounding the project, the greatest volume shift occurs between the north and south ends of the project. Under Alternative 3, between 1,000 and 2,000 vehicles per day shift from exiting onto Jackson Highway or Kiefer Boulevard to exiting onto Sunrise Boulevard instead. This is due to a newly proposed (in this alternative) access point to Sunrise Boulevard, via a canal crossing. Sunrise Boulevard currently operates at level of service "E" and is expected to operate at level of service "F" with the implementation of the base project. It is likely that Alternative 3 would exacerbate this base project impact by allowing more traffic to use this roadway segment, but this impact is easily be mitigated by widening Sunrise Boulevard from 2 to 4 lanes between Kiefer Boulevard and Jackson Highway. In fact, this is already a required mitigation measure for the base project. Alternative 3 is therefore expected to result in similar roadway segment, intersection, and freeway impacts as the project.

# **8.5.4 Alternative 4 Qualitative Assessment of Impacts**

# 8.5.4.1 Vehicle Trip Generation

Based on Table 8.23, the vehicle trip generation of Alternative 4 is estimated to be less than the project.

# 8.5.4.2 Number of Impacts

Alternative 4 is expected to result in increased roadway segment and intersection impacts along Eagles Nest Road and Grant Line Road, and less roadway segment and intersection impacts elsewhere, compared to the project. This is due to major volume shifts under Alternative 4, which are described in the next subsection. Alternative 4 is expected to result in similar freeway impacts as the project, due to Caltrans significance criteria.

# 8.5.4.3 Shift in Travel Patterns

Alternative 4 project volumes decrease by approximately 3,000 ADT on Sunrise Boulevard north of the project, by approximately 1,000 ADT on Grant Line Road north of Jackson Highway, between 2,000 and 3,000 ADT on Jackson Highway west of the project, and by approximately 800 ADT on Elder Creek Road and Florin Road. Volumes increase by approximately 800 ADT on Eagles Nest Road and Grant Line Road south of the project. This is the logical result of the introduction of a large number of industrial jobs (over 7,000 employees) and concurrent elimination of all of the base project's residential development. These jobs must all be filled, and a large number of them are taken by residents in Elk Grove; this is seen in the increase in traffic to the south of the project, along Eagles Nest Road and Grant Line Road. At the same time, residents of over 3,800 homes in NewBridge previously made employment and shopping trips to Rancho Cordova and Sacramento, but these households no longer exist in this scenario; this is reflected in the sharply decreased traffic heading north and west from the project.