CITY OF FULLERTON

Public Works Department – *Engineering Division*

June 30, 2026

Orange County Transportation Authority
ATTN: Alicia Yang
Regional Modeling and Traffic Operations
Planning Division
P.O. Box 14184
Orange, CA 92863-1584

Subject: Local Signal Synchronization Plan Submittal as Part of the Measure M2 Eligibility Process

Dear Ms. Yang:

The City of Fullerton is pleased to submit its Local Signal Synchronization Plan as part of the Measure M2 eligibility process. The submittal includes the following components:

1. A completed "Local Signal Synchronization Plan Consistency Review Checklist" form establishing consistency between the Local Signal Synchronization Plan and the Regional Traffic Signal Synchronization Master Plan.

2. An updated Local Signal Synchronization Plan for Fiscal Years 2026/2027 to 2028/2029 including and all required elements as identified in the "Guidelines for the Preparation of Local Signal Synchronization Plans".

The City looks forward to continuing the implementation of the beneficial programs and construction projects required and made possible by Measure M2.

If you have any questions, please call me at (714) 738-6853.

Sincerely,

Michael Plotnik
City Traffic Engineer

Enclosures

A. Local Signal Synchronization Plan Consistency Review Checklist
B. Local Signal Synchronization Plan

LOCAL SIGNAL SYNCHRONIZATION PLAN CONSISTENCY REVIEW CHECKLIST

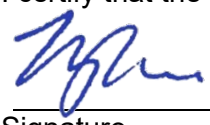
The Local Agency Name: City of Fullerton Plan Date: June 30, 2026

Local agencies must submit a copy of the Local Signal Synchronization Plan, a completed consistency review checklist, and any supporting documentation. Complete the table below.

Complete the table below:

Local Agency Statement	Page #s in LSSP	Provided or N/A
1) Signal synchronization goals of the agency are consistent with those outlined as part of the Regional Traffic Signal Synchronization Master Plan.	1-1	Yes
2) Traffic signal synchronization street routes are identified, including all corridors along the regional signal synchronization network located within the local agency.	2-1	Yes
3) Traffic signal inventory for all traffic signal synchronization street routes.	3-1	Yes
4) Three-year plan separately showing costs, available funding, and phasing for capital, operations, and maintenance of signal synchronization along the traffic signal synchronization street routes and traffic signals which may include unconstrained and build-out scenarios.	4-1	Yes
5) Signal synchronization review, revision, and assessment of synchronization activities along the traffic signal synchronization street routes and traffic signals.	5-1	Yes

I certify that the above statements are true to the best of my knowledge.



6/1/2026

Signature Date

Michael Plotnik, City Traffic Engineer, City of Fullerton

Printed Name, Title, & Local Agency

Local Signal Synchronization Plan

2026 Update

City of Fullerton

303 W. Commonwealth Ave
Fullerton, CA 92832
(714) 738-6845

June 30, 2026

LOCAL SIGNAL SYNCHRONIZATION PLAN

SECTION 1: TRAFFIC SIGNAL SYNCHRONIZATION GOALS, POLICIES AND OBJECTIVES

Purpose and Need

The Regional Traffic Signal Synchronization Program, which comprised of a 750-mile regional signal synchronization network with about 2,000 traffic signals throughout Orange County, is a part of the Measure M2 approved by Orange County voters in November 2006. The goals of the program are to improve the flow of traffic on Orange County streets and roads by implementing multi-agency traffic signal synchronization. The M2 program, which began in 2011, required that each local jurisdiction adopt a Local Signal Synchronization Plan (LSSP) to be eligible for M2 funding. The City of Fullerton initially adopted its LSSP in 2010.

Subsequent to the adoption of the 2010 LSSP, the City of Fullerton is required to maintain and update the plan for the duration of the Measure M2 program to remain eligible for funding. Therefore, the City of Fullerton LSSP has been updated in 2014, 2017, 2020, 2023 and again with this version of the document in 2026.

The following components are included in the LSSP:

- Signal synchronization goals
- Traffic signal synchronization street routes
- Traffic signal inventory
- Three-year capital, operations, and maintenance plan
- Signal synchronization timing review, revision, and assessment

Goals, Policies and Objectives

Coordination of traffic signals on major arterials results in the reduction of vehicle stops, delays, queuing, travel times and emissions, and provides for a less congested and comfortable drive for both local and regional traffic. The City of Fullerton acknowledges the Measure M2 Regional Traffic Signal Synchronization Program goals and supports a multi-agency corridor-based approach that optimizes traffic signals based on existing traffic patterns. The City supports local agency responsibility for signal timing and working with neighboring agencies to develop synchronization timing.

The City of Fullerton's General Plan ("The Fullerton Plan", adopted May 1, 2012) recognizes the ongoing role of motor vehicle travel as an important part of an overall multimodal transportation network for the City. Within the overall goal of providing a balanced system promoting transportation alternatives that enable mobility and an enhanced quality of life, specific policies adopted include the following:

- Circulation between Cities:

  Support regional and sub-regional efforts to implement programs that coordinate the multimodal transportation needs and requirements across jurisdictions including, but not limited to, the Master Plan of Arterial Highways, the Commuter Bikeways Strategic Plan, the Signal Synchronization Master Plan and the Orange County Congestion Management Plan.

- Signal Coordination:

  Collaborate with Caltrans, OCTA, and neighboring cities to achieve multijurisdictional traffic signal coordination across City boundaries.

Fullerton has taken the lead in northern Orange County in conducting multijurisdictional traffic signal synchronization projects. Within the past sixteen years, the City has managed a large number of coordination projects involving multiple agencies. Previously completed corridor projects include the following:

- Bastanchury Road
- Euclid Street
- Brea Boulevard
- Commonwealth Avenue
- Lemon Street/Anaheim Boulevard
- Placentia Avenue
- Yorba Linda Boulevard
- State College Boulevard
- Orangethorpe Avenue
- Malvern Avenue / Chapman Avenue
- Magnolia Street
- Brookhurst Street
- Gilbert Street / Idaho
- Orangethorpe Avenue / Esperanza Road

Current corridor projects underway or in the operations and maintenance phase include:

- Harbor Boulevard
- Euclid Street
- Yorba Linda Boulevard
- State College Boulevard

Future planned corridor projects include:

- Bastanchury Road
- Placentia Avenue

SECTION 2: TRAFFIC SIGNAL SYNCHRONIZATION STREET ROUTES

Traffic signals along key arterial routes in the City of Fullerton are synchronized during peak periods based on traffic volumes and flow patterns. The City of Fullerton has an on-call professional services contract with Linscott Law & Greenspan Engineers, to monitor, maintain, and adjust the City's traffic signal coordination system as needed to optimize flow, efficiency, and safety. The synchronized corridors include not only all routes identified in OCTA's Regional Traffic Signal Synchronization Master Plan but additional arterial segments of Gilbert Street, Raymond Avenue and Placentia Avenue. The Traffic Signal Synchronization Routes in the City are shown in **Figure 1** and are summarized below.

1. **Bastanchury Road** is classified as a Major Arterial in the OCTA MPAH and varies from a four-lane to a six-lane facility. The posted speed varies from 45 to 50 miles per hour (mph). Daily traffic on Bastanchury Road ranges from 18,000 vehicles to 35,000 vehicles.

2. **Berkeley Avenue** is classified as a Primary/Secondary Arterial in the OCTA MPAH and varies from a two-lane to a four-lane facility. The posted speed is 35 mph. Daily traffic on Berkeley Avenue ranges from 4,000 to 13,000 vehicles.

3. **Brea Boulevard** is classified as a Major Arterial in the OCTA MPAH and is a four-lane facility. The posted speed varies from 40 to 45 mph. Daily traffic on Brea Boulevard ranges from 20,000 to 31,000.

4. **Brookhurst Street** is a four-lane roadway and is classified as a Primary Arterial in OCTA MPAH. The posted speed varies from 35 to 40 mph and carries approximately 24,000 to 30,000 vehicles daily.

5. **Chapman Avenue** is a four-lane roadway and the posted speed varies from 30 to 40 mph. It is classified as a Major/Primary Arterial carrying approximately between 22,000 to 46,000 vehicles daily.

6. **Commonwealth Avenue** is classified as a Primary Arterial in the OCTA MPAH and varies from a two-lane to a four-lane facility. It carries approximately 9,000 to 25,000 vehicles daily and the posted speed varies from 30 mph in the downtown area to 40 mph.

7. **Euclid Street** is classified in the OCTA MPAH as a Major/Primary Arterial and is a four-lane facility. The posted speed varies from 35 to 50 mph and it carries approximately 17,000 to 41,000 vehicles per day.

8. **Gilbert Street** is classified as a Primary Arterial and posted speeds vary from 30 to 45 mph. It varies from a two-lane to a four-lane facility and carries approximately 5,000 to 32,000 vehicles daily.

9. **Harbor Boulevard** has a posted speed varying between 35 to 50 mph. It varies from a four-lane to a six-lane roadway. It is classified in the OCTA MPAH as a Major/Primary Arterial, carrying approximately 30,000 to 47,000 vehicles daily.

10. **Lemon Street** is a four-lane roadway classified in the OCTA MPAH as a Primary Arterial. It carries approximately 22,000 to 39,000 vehicles daily from the southern City limit to Chapman Avenue and 7,000 to 15,000 vehicles daily from Chapman Avenue to Brea Boulevard. The posted speed varies from 35 to 40 mph.

11. **Magnolia Avenue** has a posted speed of 40 mph and carries approximately 22,000 to 43,000 vehicles daily. The corridor has four travel lanes and is classified as a Primary Arterial in the OCTA MPAH.

12. **Orangethorpe Avenue** is classified as a Major Arterial in the OCTA MPAH. It carries approximately 20,000 to 24,000 vehicles daily and has a posted speed ranging from 40 to 45 mph. It varies from a four-lane to a six lane facility.

13. **Placentia Avenue** is a four-lane roadway with a posted speed of 40 mph. It is classified as a Primary Arterial in the OCTA MPAH. Daily traffic on Placentia Avenue ranges from 8,000 vehicles to a high of 24,000 vehicles.

14. **Rosecrans Avenue** is classified as a Primary/Secondary Arterial in the OCTA MPAH and has four travel lanes. The posted speed varies from 45 to 50 mph. It carries approximately 14,000 to 19,000 vehicles daily.

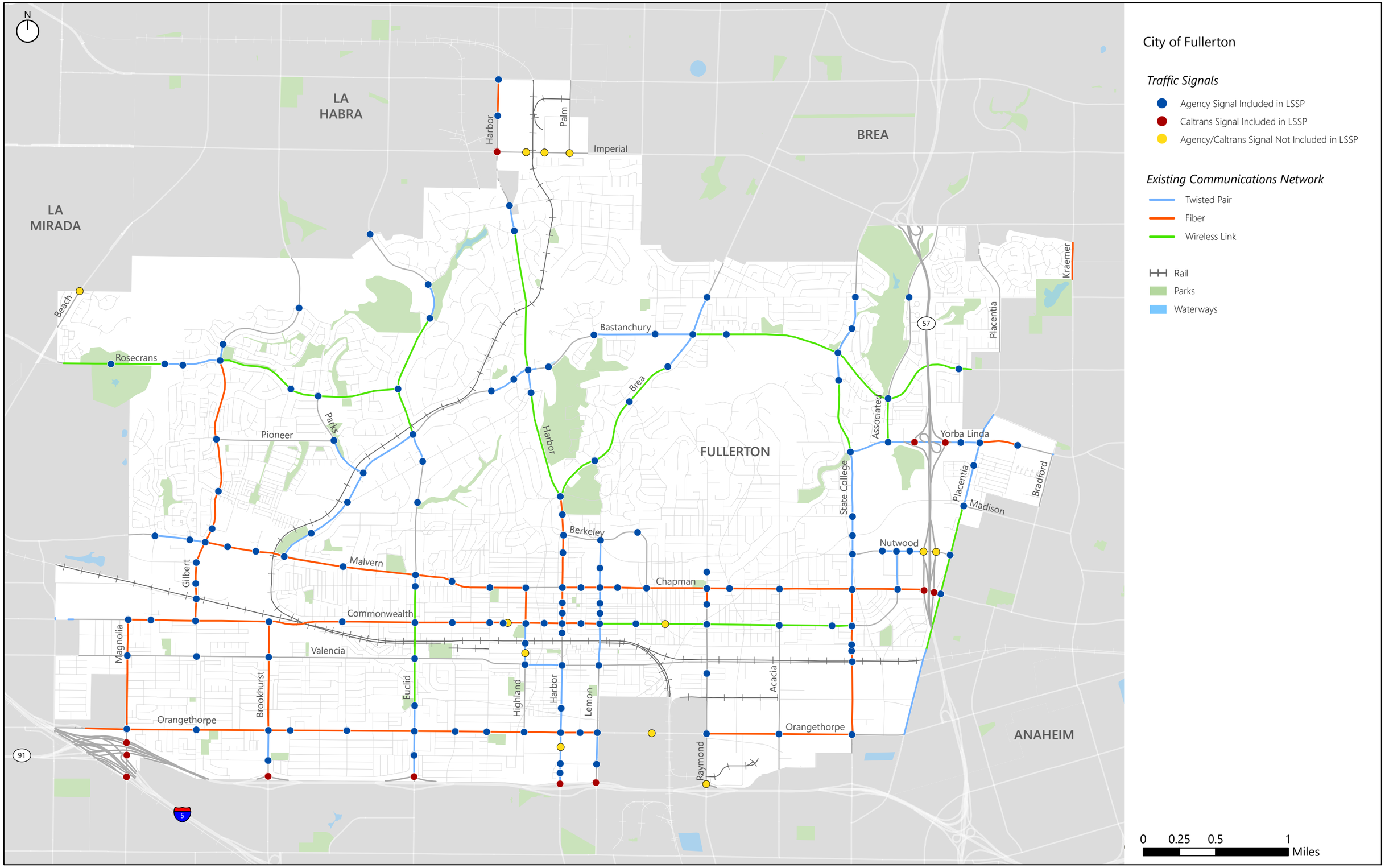
15. **State College Boulevard** carries between 22,000 to 39,000 vehicles daily. The posted speed varies from 40 to 45 mph and is classified as a Major Arterial. It varies from a four-lane to a six-lane facility.

16. **Yorba Linda Boulevard** is a six-lane roadway with a posted speed of 40 mph. It carries 23,000 to 38,000 vehicles daily and is classified as a Major Arterial in the OCTA MPAH.

The following synchronized corridor is operated and maintained by the State of California (Caltrans):

17. **Imperial Highway (SR-90)** is a six-lane Smart Street per the OCTA MPAH. It carries 43,000 vehicles daily and the posted speed is 40 mph within the City of Fullerton.

Figure 1 – Signal Synchronization Routes



SECTION 3: TRAFFIC SIGNAL INVENTORY

The following is a summary of the number of traffic signals operating within the City of Fullerton:

- 154 City-owned and maintained traffic signals, including:
  - 4 shared traffic signals with the City of Anaheim
  - 4 shared traffic signals with the City of Buena Park
  - 1 shared traffic signal with the City of La Habra
  - 2 shared traffic signals with the City of Placentia
  - 1 shared traffic signal with the County of Orange
- 12 State of California owned and maintained traffic signals

In addition, the City is expected to complete the installation of new traffic signals at the following intersections:

- State College Boulevard and Kimberly Avenue
- Lemon Street and Liberty Avenue
- Harbor Boulevard and La Entrada Place

This section provides traffic signal inventory information for all the traffic signals along the Signal Synchronization Routes identified in this LSSP. The traffic signal inventory information provided includes specific information in the following categories:

- Location
- Cycle Lengths
- Maintenance Responsibility
- Operation Type
- Installed Equipment

The inventory data for all signals along the identified synchronization routes is outlined in **Table 3-1** and has been provided in digital form to OCTA for the purposes of providing an online countywide database of traffic signal information for use by local agencies and county planners, engineers, and consultants.

Table 3-1: Traffic Synchronization Inventory

Last Update: May 12, 2026

Corridor	Cross Street Intersection	Cycle Length				Maintenance Responsibility	Operations			Equipment										
		AM	MID	PM	WKND		Left	Right	Other-10/24	Cabinet	Type	Software	Detection	Bike Detection	CCTV	Power Backup	Comm	Other ITS	ATMS	Status
Magnolia	Commonwealth Ave	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber	Copper, Wireless	Tactics	On-line
	Valencia Dr	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber	Wireless	Tactics	On-line
	Academy Dr	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	BBS	Fiber	Wireless	Tactics	On-line
	Orangethorpe Ave	130	120	130	120	Fullerton	PPLT	Prot/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	N/A	BBS	Fiber		Kinetic Signals	On-line
	SR-91 WB	100	90	100	90	Caltrans	Protected	Permissive			170/170E									
	Buckingham St	100	90	100	90	Caltrans	Protected	Permissive			170/170E									
	I-5 SB	100	90	100	90	Caltrans	Protected	Permissive			170/170E									
Gilbert St	Castlewood Dr	110	100	110	100	Fullerton	Permissive	Permissive		M	MaxTime	MaxTime	Loops	No	N/A	N/A	Wireless		Kinetic Signals	Off-line
	Coyote Hills Dr	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Rosecrans Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	Cohu	N/A	Fiber	Copper, Wireless	Kinetic Signals	On-line
	Pioneer	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Bosch	BBS	Fiber		Kinetic Signals	On-line
	Hughes Dr	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	N/A	BBS	Fiber		Kinetic Signals	On-line
	Bramble Way/ Stern-Goodman	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	BBS	Fiber		Kinetic Signals	On-line
	Malvern Ave	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	Cohu	BBS	Fiber	Copper	Kinetic Signals	On-line
	Moore Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	N/A	Fiber		Kinetic Signals	On-line
	Raymer Ave	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Artesia Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Commonwealth Ave	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Bosch	BBS	Fiber	Copper	Kinetic Signals	On-line
	Valencia Dr	Free	Free	Free	Free	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	MaxTime	Loops	No	N/A	N/A			Kinetic Signals	On-line
Brookhurst St	Commonwealth Ave	110	100	110	100	Fullerton	FYA	Prot/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Bosch	BBS	Fiber	Wireless	Kinetic Signals	On-line
	Valencia Dr	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Video	Yes	N/A	N/A	Fiber		Tactics	On-line
	Orangethorpe Ave	130	120	130	120	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Bosch	N/A	Fiber		Kinetic Signals	On-line
	Valencia Dr	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Video	Yes	N/A	N/A	Fiber		Tactics	On-line
	Orangethorpe Ave	130	120	130	120	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Bosch	N/A	Fiber		Kinetic Signals	On-line
	Roberta Ave	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	SR-91 WB	110	100	110	100	Caltrans	Protected	Permissive		332	2070	TSCP	Loops	No	N/A	N/A	Fiber			
Euclid St	Country Hills Dr	60	60	60	60	La Habra	Protected	Permissive		P (TS2 Type 2)	2070	MaxTime	Loops	No	Cohu	N/A	Fiber		Maxview	On-line
	Lakeview Dr	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper	Wireless	Tactics	On-line
	Laguna Rd	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless	Copper	Tactics	On-line
	Rosecrans Ave	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	BBS	Wireless		Kinetic Signals	On-line
	Bastanchury Rd	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	Yes	Cohu	N/A	Copper	Wireless	Tactics	On-line
	Valencia Mesa Dr	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper	Wireless	Tactics	On-line
	Hiltscher Park	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Other	No	N/A	N/A	Wireless		Tactics	On-line
	Malvern Ave	110	100	110	100	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber	Copper	Kinetic Signals	On-line
	Chapman Ave	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Commonwealth Ave	110	100	110	100	Fullerton	FYA	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	Yes	N/A	BBS	Fiber	Wireless	Tactics	On-line
	Valencia Dr	110	100	110	100	Fullerton	FYA	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	Hill Ave/ Southgate Ave	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Orangethorpe Ave	130	120	130	120	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	Cohu	BBS	Fiber		Kinetic Signals	On-line
	Baker Ave	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	SR-91 WB	100	90	100	90	Caltrans	Protected	Permissive		332	2070	TSCP	Loops	No	N/A	N/A				
Highland Ave	Walnut Ave	100	Free	100	Free	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Valencia Dr	100	Free	100	Free	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Loops	No	N/A	BBS	Copper		Tactics	On-line

Table 3-1: Traffic Synchronization Inventory

Last Update: May 12, 2026

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		AM	MID	PM	WKND		Left	Right	Other-10/24	Cabinet	Type	Software	Detection	Bike Detection	CCTV	Power Backup	Comm	Other ITS	ATMS	Status
Harbor Blvd	Lambert Rd	110	100	110	100	La Habra	Protected	Perm/Overlap		P (TS2 Type 2)	2070	MaxTime	Video	Yes	Cohu	N/A	Fiber		Maxview	On-line
	Edwards Dr	110	100	110	100	La Habra	Protected	Permissive		P (TS2 Type 2)	2070	MaxTime	Video	Yes	Cohu	N/A	Fiber		Maxview	On-line
	Imperial Hwy	130	130	130	130	Caltrans	Protected	Permissive		332	2070	TSCP	Loops	No	N/A	N/A				
	Las Palmas Dr	100	90	100	90	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Wireless	Copper	Kinetic Signals	On-line
	Hermosa Dr	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Copper		Kinetic Signals	On-line
	Bastanchury Rd	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Cohu	BBS	Copper	Fiber	Kinetic Signals	On-line
	Valencia Mesa Dr	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	N/A	BBS	Wireless	Copper	Kinetic Signals	On-line
	Brea Blvd/W. Valley View Dr	100	90	100	90	Fullerton	Protected	Perm/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	Cohu	BBS	Fiber	Wireless	Kinetic Signals	On-line
	E. Valley View Dr	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Berkeley Ave	100	90	100	90	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Union Ave	100	90	100	90	Fullerton	Permissive	Permissive		M	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Chapman Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	BBS	Fiber		Kinetic Signals	On-line
	Wilshire Ave	110	100	110	100	Fullerton	Permissive	Permissive		M	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Amerige Ave	110	100	110	100	Fullerton	Permissive	Permissive		M	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Commonwealth Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	N/A	Fiber		Kinetic Signals	On-line
	Santa Fe Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	BBS	Fiber		Kinetic Signals	On-line
	Valencia Dr	110	100	110	100	Fullerton	Permissive	Permissive		M	MaxTime	MaxTime	Loops	No	N/A	N/A	Copper		Kinetic Signals	On-line
	Southgate/ Costco Way	100	90	100	90	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Copper		Kinetic Signals	On-line
	Orangethorpe Ave	100	90	100	90	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	N/A	Copper	Fiber	Kinetic Signals	On-line
	Orangefair Mall	100	90	100	90	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Copper		Kinetic Signals	On-line
	Orangefair Ave	100	90	100	90	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Copper		Kinetic Signals	On-line
	Houston Ave	100	90	100	90	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	BBS	Copper		Kinetic Signals	On-line
	SR-91 WB	100	90	100	90	Caltrans	Protected	Permissive		332	2070	TSCP	Loops							
Brea Blvd	Rolling Hills Dr	110	100	110	100	Fullerton	Permissive	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Bastanchury Rd	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	Cohu	BBS	Wireless	Copper	Tactics	On-line
	Ashburn Terrace	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Panorama Rd	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	Lemon St	110	100	110	100	Fullerton	Protected	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	Harbor Blvd	100	90	100	90	Fullerton	Protected	Perm/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	Cohu	BBS	Fiber	Wireless	Kinetic Signals	On-line
Lemon St	Berkeley Ave	100	90	100	90	Fullerton	Protected	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Fullerton College Dr	100	90	100	90	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	BBS	Copper		Tactics	On-line
	Chapman Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	Cohu	BBS	Fiber	Copper	Tactics	On-line
	Wilshire Ave	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Amerige Ave	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Commonwealth Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	Bosch	N/A	Copper	Fiber	Tactics	On-line
	Valencia Dr	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Orangethorpe Ave	130	120	130	120	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	Cohu	N/A	Fiber		Kinetic Signals	On-line
	Orangefair Ave	100	90	100	90	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	BBS	Copper		Tactics	On-line
	SR-91 WB	90	90	90	90	Caltrans	Protected	Permissive		332	2070	TSCP	Loops							
Raymond Ave	Grove Place	Free	Free	Free	Free	Fullerton	Permissive	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A		None		NO
	Wilshire Ave	Free	Free	Free	Free	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Video	Yes	N/A	N/A	Fiber		Tactics	On-line
	Ash Ave - Valencia Dr	Free	Free	Free	Free	Fullerton	Protected	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line

Table 3-1: Traffic Synchronization Inventory

Last Update: May 12, 2026

Corridor	Cross Street Intersection	Cycle Length				Maintenance Responsibility	Operations			Equipment											
		AM	MID	PM	WKND		Left	Right	Other-10/24	Cabinet	Type	Software	Detection	Bike Detection	CCTV	Power Backup	Comm	Other ITS	ATMS	Status
St. College Blvd	Rolling Hills Dr	55	50	55	50	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Delicata Dr	55	50	55	50	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	BBS	Copper		Tactics	On-line
	Bastanchury Rd	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Cohu	BBS	Copper		Kinetic Signals	On-line
	Palmetto Terrace/ Mountain Ridge Dr	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	BBS	Wireless	Copper	Tactics	On-line
	Yorba Linda Blvd	Free	Free	Free	Free	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	Cohu	BBS	Copper		Tactics	On-line
	Dorothy Ln	110	100	110	100	Fullerton	FYA	Perm/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	N/A	BBS	Copper		Kinetic Signals	On-line
	Arts Dr	110	100	110	100	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	BBS	Copper		Kinetic Signals	On-line
	Nutwood Ave	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	BBS	Copper		Tactics	On-line
	Chapman Ave	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	M50	SEPAC ECOM	Video	Yes	Cohu	BBS	Fiber	Copper	Tactics	On-line
	Commonwealth Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	N/A	Fiber		Tactics	On-line
	Walnut Ave - Fender Ave	110	100	110	100	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	N/A	BBS	Fiber		Kinetic Signals	On-line
	Valencia Dr	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Video	No	N/A	BBS	Fiber		Tactics	On-line
	Orangethorpe Ave	130	120	130	120	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Bosch	N/A	Fiber		Kinetic Signals	On-line
Placentia	Yorba Linda Blvd	100	90	100	90	Fullerton	PPLT	Prot/Overlap		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	BBS	Copper		Tactics	On-line
	Garner Ln	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Madison Ave	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Nutwood Ave/ Primrose Ave	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	Chapman Ave	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber	Wireless	Tactics	On-line
	Fender Ave	100	90	100	90	Placentia	Permissive	Permissive			ASC/3									
	Crowther Ave	100	90	100	90	Placentia	Permissive	Permissive			ASC/3									
	Kimberly Ave	100	90	100	90	Placentia	Protected	Permissive			ASC/3									
	Orangethorpe Ave	110	100	110	100	Placentia	Protected	Permissive			ASC/3									
Rosecrans Ave	Emery Ranch Rd	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	Yes	N/A	N/A	Wireless		Tactics	On-line
	Ralph B. Clark	100	90	100	90	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	Yes	N/A	N/A	Wireless		Tactics	On-line
	Fire Station	Free	Free	Free	Free	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	BBS	Copper	Wireless	Tactics	On-line
	Sunny Ridge Dr	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	Yes	N/A	N/A	Copper		Tactics	On-line
	Gilbert St	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	BBS	Fiber	FO/Cpr	Kinetic Signals	On-line
	Camino Centroloma	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	Parks Rd	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	Euclid St	110	100	110	100	Fullerton	Protected	Perm/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	BBS	Wireless		Kinetic Signals	On-line
Pioneer Ave	Parks Rd	Free	Free	Free	Free	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	BBS	Copper		Tactics	On-line
Associated Dr	Rolling Hills Dr	Free	Free	Free	Free	Fullerton	Permissive	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A		None		NO
Bastanchury Rd	Malvern Ave	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	Cohu	BBS	Fiber	Copper	Tactics	On-line
	Hughes Dr	100	90	100	90	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Valencia Mesa Dr	100	90	100	90	Fullerton	Protected	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Video	Yes	N/A	N/A	Copper		Tactics	On-line
	Parks Rd	100	90	100	90	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Euclid St	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Video	Yes	Cohu	N/A	Copper	Wireless	Tactics	On-line
	Morelia Ave	110	100	110	100	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	BBS	Fiber		Kinetic Signals	On-line
	Laguna Rd	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	BBS	Fiber		Tactics	On-line
	Harbor Blvd	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	Cohu	BBS	Copper	Fiber	Tactics	On-line
	St. Jude	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Video	Yes	N/A	BBS	Copper		Tactics	On-line
	Fairway Isles Dr	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	N/A	Copper		Tactics	On-line
	Puente St/ Morningside Dr	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Brea Blvd	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	Cohu	BBS	Wireless	Copper	Tactics	On-line

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Last Update: May 12, 2026

Corridor	Cross Street Intersection	Cycle Length				Maintenance Responsibility	Operations			Equipment										
		AM	MID	PM	WKND		Left	Right	Other-10/24	Cabinet	Type	Software	Detection	Bike Detection	CCTV	Power Backup	Comm	Other ITS	ATMS	Status
Bastanchury Rd	Payne Stewart Dr	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	State College Blvd	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Cohu	BBS	Copper		Kinetic Signals	On-line
	Associated Rd	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	N/A	BBS	Wireless		Kinetic Signals	On-line
	Hartford Ave	55	50	55	50	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
Yorba Linda Blvd	State College Blvd	Free	Free	Free	Free	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Associated Rd	100	90	100	90	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	SR-57 SB	100	90	100	90	Caltrans	Permissive	Permissive		332			Loops							
	SR-57 NB	100	90	100	90	Caltrans	Permissive	Permissive		332			Loops							
	Deerpark Dr	100	90	100	90	Fullerton	Protected	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Placentia Ave	100	90	100	90	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	BBS	Copper		Tactics	On-line
	Sapphire Rd	100	90	100	90	Fullerton	Permissive	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Bradford Ave	100	90	100	90	Placentia	Protected	Permissive		P (TS2 Type 2)	ASC/3	ASC/3	Video							
Berkeley Ave	Hornet Way	Free	Free	Free	Free	Fullerton	Permissive	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A			Tactics	On-line
Nutwood Ave	Titan Ave	110	100	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Folino	110	100	100	90	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	Cohu	N/A	Copper		Tactics	On-line
Malvern / Chapman	Burning Tree Rd	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Sunny Ridge Dr	110	100	110	100	Fullerton	PPLT	Permissive		M	M60	SEPAC ECOM	Loops	No	N/A	N/A	Copper		Tactics	On-line
	Gilbert St	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	Cohu	BBS	Fiber	Copper	Kinetic Signals	On-line
	Albertsons Way	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	BBS	Fiber		Tactics	On-line
	Target Way	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	BBS	Fiber	Wireless	Tactics	On-line
	Bastanchury Rd	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	Cohu	BBS	Fiber	Copper	Kinetic Signals	On-line
	Basque Ave/ Carhart Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	N/A	N/A	Fiber		Tactics	On-line
	Euclid St	110	100	110	100	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber	Copper	Kinetic Signals	On-line
	Woods Ave	110	100	110	100	Fullerton	Permissive	Permissive		M	M60	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
	Richman Ave	110	100	110	100	Fullerton	Permissive	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
	Highland Ave	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
	Harbor Blvd	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	BBS	Fiber		Kinetic Signals	On-line
	Pomona Ave	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
	Lemon St	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	Cohu	BBS	Fiber		Tactics	On-line
	Lawrence	110	100	110	100	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
	Berkeley Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Loops	No	Cohu	N/A	Fiber		Tactics	On-line
	Raymond Ave	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Loops	No	Cohu	N/A	Fiber		Tactics	On-line
	Victoria Dr	110	100	110	100	Fullerton	Permissive	Permissive		M	M60	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
	Acacia Ave	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
	State College Blvd	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	Yes	Cohu	BBS	Fiber	Copper	Tactics	On-line
	Commonwealth Ave	110	100	110	100	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Cohu	BBS	Fiber		Kinetic Signals	On-line
	SR-57 SB	110	100	110	100	Caltrans	Protected	Permissive		332	2070	TSCP	Loops	No	N/A	BBS	Fiber	Copper		
	SR-57 NB	110	100	110	100	Caltrans	Protected	Permissive		332	2070	TSCP	Loops	No	N/A	BBS	Fiber	Copper		
	Placentia Ave	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	Cohu	N/A	Fiber		Tactics	On-line
Commonwealth Ave	Magnolia Ave	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M60	SEPAC ECOM	Loops	No	N/A	N/A	Fiber	Copper	Tactics	On-line
	Pritchard Ave	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
	Gilbert St	110	100	110	100	Fullerton	Protected	Prot/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Bosch	BBS	Fiber	Copper	Kinetic Signals	On-line
	Basque Ave	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	N/A	Fiber	Wireless	Tactics	On-line
	Woods Ave	100	90	100	90	Fullerton	Permissive	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line

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Corridor	Cross Street Intersection	Cycle Length				Maintenance Responsibility	Operations			Equipment										
		AM	MID	PM	WKND		Left	Right	Other-10/24	Cabinet	Type	Software	Detection	Bike Detection	CCTV	Power Backup	Comm	Other ITS	ATMS	Status
Commonwealth Ave	Richman Ave	100	90	100	90	Fullerton	Permissive	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
(Cont.)	Short St	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
	Highland Ave	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	BBS	Fiber		Tactics	On-line
	Malden Ave	100	90	100	90	Fullerton	PPLT	Permissive		M	M50	SEPAC ECOM	Video	No	N/A	N/A	Fiber		Tactics	On-line
	Pomona Ave	110	100	110	100	Fullerton	Permissive	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A	Fiber		Tactics	On-line
	Lemon St	110	100	110	100	Fullerton	Protected	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	N/A	N/A	Fiber		Tactics	On-line
	Balcom Ave	100	90	100	90	Fullerton	Permissive	Permissive		M	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	Raymond Ave	100	90	100	90	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	Acacia Ave	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	Lillie Ave	100	90	100	90	Fullerton	Permissive	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Loops	No	N/A	N/A	Wireless		Tactics	On-line
	State College Blvd	110	100	110	100	Fullerton	PPLT	Permissive		P (TS2 Type 2)	M50	SEPAC ECOM	Video	No	Cohu	N/A	Fiber		Tactics	On-line
	Nutwood Ave	110	100	100	90	Fullerton	PPLT	Prot/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	N/A	BBS	Copper		Kinetic Signals	On-line
Orangethorpe Ave	Auto Center Dr	130	120	130	120	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Magnolia Ave	130	120	130	120	Fullerton	PPLT	Prot/Overlap		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	N/A	BBS	Fiber		Kinetic Signals	On-line
	Gilbert St	130	120	130	120	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Brookhurst St	130	120	130	120	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Bosch	N/A	Fiber		Kinetic Signals	On-line
	Pacific Dr	130	120	130	120	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Basque Ave	130	120	130	120	Fullerton	PPLT	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	N/A	Fiber		Kinetic Signals	On-line
	Euclid St	130	120	130	120	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	Cohu	BBS	Fiber		Kinetic Signals	On-line
	Woods Ave	130	120	130	120	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Richman Ave	130	120	130	120	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Highland Ave	130	120	130	120	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Harbor Blvd	130	120	130	120	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	Bosch	N/A	Fiber		Kinetic Signals	On-line
	Pomona Ave	130	120	130	120	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	Lemon St	130	120	130	120	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	Cohu	N/A	Fiber		Kinetic Signals	On-line
	Raymond Ave	130	120	130	120	Fullerton	Protected	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	Yes	N/A	N/A	Fiber		Kinetic Signals	On-line
	Acacia Ave	130	120	130	120	Fullerton	Permissive	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Loops	No	N/A	N/A	Fiber		Kinetic Signals	On-line
	State College Blvd	130	120	130	120	Fullerton	FYA	Permissive		P (TS2 Type 2)	MaxTime	MaxTime	Video	No	Bosch	N/A	Fiber		Kinetic Signals	On-line
	Placentia Ave	130	120	130	120	Placentia					ASC/3									

City of Fullerton System:

Central System: SIEMENS TACTICS
Controller Operating System: SEPAC

Central System: Q-Free Kinetic Signals
Controller Operating System: Q-Free MaxTime

Caltrans System:

Model 2070 Controller (Local) – TSCP Program

Field Master Model 2070 Controller – GPS + TRFM Program

SECTION 4: TRAFFIC SIGNAL SYNCHRONIZATION SYSTEM AND THREE-YEAR PLAN

Implementing, maintaining and updating signal synchronization includes initial and recurring capital equipment investment and regular signal timing plan updates. This section contains the three-year budgetary estimates for maintaining the traffic signal synchronization system for the City of Fullerton. The section also contains a candidate list intended to identify planning level capital funding needs for full build-out of the network identified on the network map (Figure 1) shown in Section 2 of this 2023 LSSP update.

Two levels of budgetary estimates for capital, operations and maintenance plan are provided:

- **Constrained Level** – budget estimate based on available funding the local agency will commit for the signal synchronization efforts. The Constrained Funding Needs information is summarized in **Table 4-1.**
- **Unconstrained Level** – budget estimate based on expenditures required to fully implement the three-year synchronization program if all necessary and desired costs were funded. The Unconstrained Funding Needs information is summarized in **Table 4-2.**

For planning purposes, the City of Fullerton identified candidate traffic signal synchronization projects at the Unconstrained Level for the next seven years. The budgetary estimates to fully implement these projects are provided in **Table 4-3**. The City of Fullerton, along with neighboring jurisdictions, plan to submit these as part of future Project P Calls for Projects.

Table 4-1 THREE YEAR TRAFFIC SIGNAL SYNCHRONIZATION OUTLOOK
Funding Needs for Synchronized Operation (Constrained)
(City of Fullerton)

MAINTENANCE	FY 26/27	FY 27/28	FY 28/29	TOTAL
Communication and Software Maintenance	$25,000	$25,000	$25,000	$75,000
Signal Timing Maintenance	$55,000	$55,000	$55,000	$165,000
Subtotal Maintenance:	$80,000	$80,000	$80,000	$240,000
CAPITAL PROJECTS	**FY 26/27**	**FY 27/28**	**FY 28/29**	**TOTAL**
Traffic Management Center Expansion	$25,000	$25,000	$25,000	$75,000
State College Bl. Signal Synchronization	$937,675			$937,675
Subtotal Capital Projects:	$962,675	$25,000	$25,000	$1,012,675
OPERATIONS PROJECTS	**FY 26/27**	**FY 27/28**	**FY 28/29**	**TOTAL**
Harbor Blvd Monitoring/Maintenance	$31,500	$31,500		$63,000
Yorba Linda Bl. Monitoring/Maintenance	$16,650	$16,650		$33,300
Citywide Monitoring and Repair	$25,000	$25,000	$25,000	$75,000
Euclid St Monitoring/Maintenance	$32,400	$32,400		$64,800
State College Monitor/Maintenance		$37,700	$37,700	$75,400
Subtotal Operations Projects:	$105,550	$143,250	$62,700	$311,500
Total Funding Needs (Constrained):	**FY 26/27**	**FY 27/28**	**FY 28/29**	**TOTAL**
	$1,068,225	$248,250	$80,000	$1,564,175

Note: Type of Traffic Signal Synchronization Expenditures in Year of Expenditure Dollars.

Table 4-2 THREE YEAR TRAFFIC SIGNAL SYNCHRONIZATION OUTLOOK
Funding Needs for Synchronized Operation (Unconstrained)
(City of Fullerton)

MAINTENANCE	**FY 26/27**	**FY 27/28**	**FY 28/29**	**TOTAL**
Communication and Software Maintenance	$100,000	$100,000	$100,000	$300,000
Signal Timing Maintenance	$65,000	$65,000	$65,000	$195,000
Subtotal Maintenance:	$165,000	$165,000	$165,000	$495,000
CAPITAL PROJECTS	**FY 26/27**	**FY 27/28**	**FY 28/29**	**TOTAL**
Bastanchury Signal Synchronization	$1,522,850			$1,522,850
Placentia Signal Synchronization	$444,730			$444,730$
Brea Blvd Signal Synchronization		$470,000		$470,000
Rosecrans Signal Synchronization		$1,259,000		$1,259,000
Lemon Signal Synchronization			$706,000	$706,000
State College Bl. Signal Synchronization	$937,675			$937,675
Traffic Management Center Expansion	$200,000	$200,000		$360,000
Subtotal Capital Projects:	$3,105,255	$1,929,000	$706,000	$5,255,525
OPERATIONS PROJECTS	**FY 26/27**	**FY 27/28**	**FY 28/29**	**TOTAL**
Bastanchury Rd Monitoring/Maintenance		$37,600	$37,600	$75,200
Placentia Av Monitoring/Maintenance		$12,000	$12,000	$24,000
Brea Blvd Monitoring/Maintenance			$13,000	$13,000
Rosecrans Signal Synchronization			$32,000	$13,000
Harbor Blvd Monitoring/Maintenance	$31,500	$31,500		$63,000
Yorba Linda Bl. Monitoring/Maintenance	$16,650	$16,650		$33,300
Euclid St Monitoring/Maintenance	$32,400	$32,400		$64,800
State College Monitor/Maintenance		$37,700	$37,700	$75,400
Citywide Monitoring and Repair	$100,000	$100,000	$100,000	$300,000
Subtotal Operations Projects:	$180,550	$267,850	$232,300	$661,700
Total Funding Needs (Unconstrained):	**FY 26/27**	**FY 27/28**	**FY 28/29**	**TOTAL**
	$3,450,805	$2,361,850	$1,103,300	$6,412,225

Note: Type of Traffic Signal Synchronization Expenditures in Year of Expenditure Dollars.

Table 4-3: LSSP IMPLEMENTATION
Candidate Signal Synchronization Projects
Buildout Plan
(City of Fullerton)

CORRIDOR	IMPROVEMENT SUMMARY	ESTIMATED COST
Harbor Boulevard	Upgrade signal timing, replace signal controller equipment, install fiber communications, utilize speed detection devices, and install CCTV cameras.	$1,996,000
Yorba Linda Boulevard	Upgrade signal timing, replace signal controller equipment, install fiber communications, utilize speed detection devices, and install CCTV cameras.	$678,000
Euclid Street	Upgrade signal timing, replace signal controller equipment, install fiber communications, utilize speed detection devices, and video detection upgrades.	$1,468,000
State College Boulevard	Upgrade signal timing, replace signal controller equipment, install fiber communications, utilize speed detection devices, and video detection upgrades.	$938,000
Bastanchury Road	Upgrade signal timing, replace signal controller equipment, install fiber communications, utilize speed detection devices, and video detection upgrades.	$1,523,000
Placentia Avenue	Upgrade signal timing, replace signal controller equipment, install fiber communications, and utilize speed detection devices.	$445,000
Brea Boulevard	Upgrade signal timing, replace signal controller equipment, install fiber communications, utilize speed detection devices, and video detection upgrades.	$495,000
Lemon Street	Upgrade signal timing, replace signal controller equipment, install fiber communications, install CCTV cameras, and utilize travel time devices.	$743,000
Rosecrans Avenue	Upgrade signal timing, replace signal controller equipment, install fiber communications, utilize speed detection devices, and video detection upgrades.	$1,259,000
	Total Estimated Cost:	$9,545,000

SECTION 5: TRAFFIC SIGNAL SYNCHRONIZATION ASSESSMENT

The City of Fullerton periodically conducts corridor-wide projects to both update signal timing and upgrade obsolete traffic signal infrastructure. The City is currently participating in the following Project P funded multijurisdictional traffic signal coordination projects:

1. Harbor Boulevard RTSSP
2. Yorba Linda Boulevard / Weir Canyon Road RTSSP
3. Euclid Street RTSSP
4. State College Boulevard / The City Drive RTSSP

The **Harbor Boulevard RTSSP** project is currently in the project construction phase. The project involves coordination signal timing updates and traffic signal hardware and software system improvements for the corridor extending from Arbolita Drive in the City of La Habra to the SR-91 freeway interchange in the City of Fullerton. It is anticipated that the construction portion of the project will be completed in the summer of 2026.

The **Yorba Linda Boulevard / Weir Canyon Road RTSSP** project is currently in the project construction phase. The project involves coordination signal timing updates and traffic signal hardware and software system improvements for the corridor extending from State College Boulevard in the City of Fullerton easterly eleven miles to Oak Canyon Drive in the City of Anaheim. It is anticipated that the construction portion of the project will be completed in the summer of 2026.

The **Euclid Street RTSSP** is currently in the design phase. The project includes coordination signal timing updates and field improvements such as new traffic signal controllers, CCTV cameras, video detection systems, and fiber optic communication upgrades for the corridor extending from La Habra Boulevard in the City of La Habra to the I-405 Ramps in the City of Foutain Valley. It is anticipated that the design phase will be completed in the summer of 2026 with construction beginning shortly after.

The **State College Boulevard / The City Drive RTSSP** is currently in the design phase. The project includes coordination signal timing updates and field improvements such as new traffic signal controllers, CCTV cameras, video detection systems, and fiber optic communication upgrades for the corridor extending from Cliffwood Ave in the City of Brea to Garden Grove Blvd in the City of Orange. It is anticipated that the design phase will be completed late 2026 with construction beginning shortly after.

Other Related Projects and Efforts

The City of Fullerton is refining and updating local signal timing parameters into compliance with the latest CA MUTCD requirements as it relates to yellow time, all red time, bicycle timing, and pedestrian clearance timing. Additionally, the City has completed its citywide modification of flashing yellow arrow operations that should enhance safety and motorist understanding of this unique signal operation.

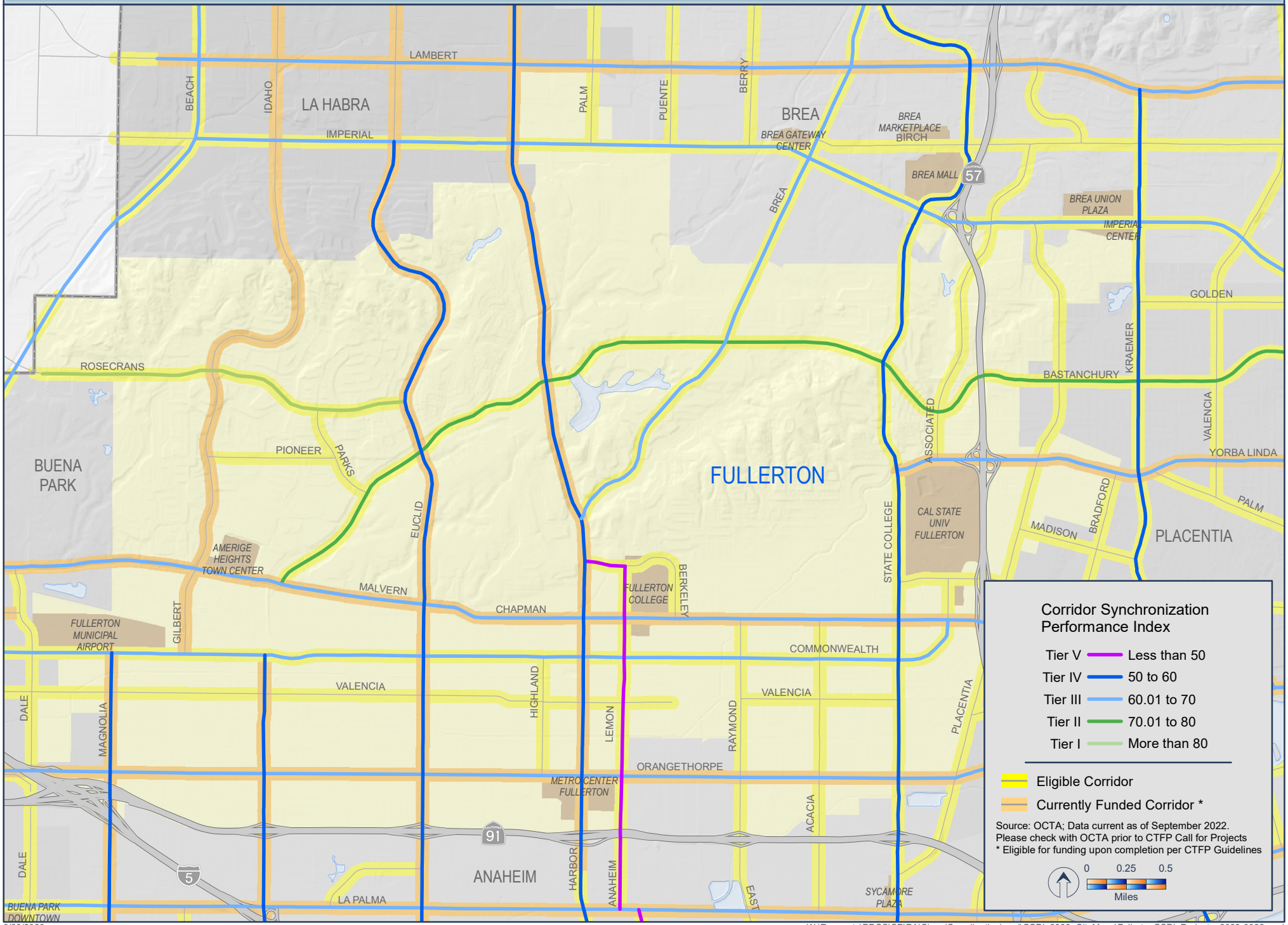
The City is also upgrading its Traffic Management Center to migrate from an on-premises software system to a cloud-based system. The central system will also be transitioned from

Siemens Tactics to the Intelight Kinetic system. Out of the 160 controllers that the City currently has, 58 have been replaced with Intelight controllers, which offer the benefit of being able to communicate with the City's Traffic Signal Master Computer and are non-proprietary in nature, capable of communicating with a multitude of traffic management software. This will give the City greater flexibility when obtaining technical support or utilizing other software platforms. Upon completion of the project, the City will be better suited to accommodate the increasing number of signals within the network, the heavier workload that the servers must perform, and be able to utilize new technologies to perform the necessary traffic management duties more effectively and efficiently.

The City of Fullerton, via its traffic engineering consultants and maintenance contractors, pro-actively monitor traffic operations along the City's traffic signal synchronization routes. The provision of Measure M2 funds, both for periodic signal timing updates and traffic signal system infrastructure upgrades, are critical to maintaining relevant and efficient traffic signal synchronization. The City of Fullerton's Corridor Operational Performance is presented **in Figure 2**. **Table 5-1** summarizes results of recent Traffic Signal Synchronization Program projects and **Table 5-2** presents the signal timing revisions for the different city corridors.

Figure 2

2023 Corridor Operational Performance
Fullerton



3/22/2023

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Table 5-1: Corridor Operational Performance
(City of Fullerton)

LOCAL AGENCY CORRIDOR	TIMING REVIEWED (Past 3 Years)	DID TIMING REQUIRE AN UPDATE?	TIMING UPDATE RESULTS (if available)							
			Speed Travel		Stops per mile		Greens per red		CSPI Score[1]	
			Before	After	Before	After	Before	After	Before	After
Orangethorpe Ave	2023	Yes	26.4	30.2	1.3	0.95	2.3	3.0	62	77
Gilbert St	2023	Yes	26.7	29.8	1.1	0.7	2.2	3.8	71	93
Harbor Blvd	2026	Yes	Studies not yet available.							
Yorba Linda Blvd	2026	Yes	Studies not yet available.							

1 CSPI - Corridor Synchronization Performance Index

Table 5-2: Signal Timing Revisions
(City of Fullerton)

Project Corridor	Cross Street	Cycle Lengths	
		Before	After
Harbor Blvd	Las Palmas Dr to Houston Ave	AM - 100 Sec MD - 90 Sec PM - 100 Sec WKND - 90 Sec	AM - 130 Sec MD - 120 Sec PM - 130 Sec WKND - 120 Sec
Yorba Linda Blvd	State College Blvd	AM - 100 Sec MD - 90 Sec PM - 100 Sec WKND - 90 Sec	AM – 150 Sec MD - 120 Sec PM - 150 Sec WKND - 120 Sec
Yorba Linda Blvd	Associated Rd to Sapphire Rd	AM - 100 Sec MD - 90 Sec PM - 100 Sec WKND - 90 Sec	AM – 120 Sec MD - 120 Sec PM - 120 Sec WKND - 120 Sec

Note: All corridor cycle lengths remained the same. Signal timing parameters are adjusted as needed based on traffic volumes, traffic flow pattern changes, field observations or resident requests. Any changes in cycle lengths will be identified in the table above.