City of
WESTMINSTER
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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 Westminster 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 2026/27 to 2028/29 including and all required elements as identified in the "Guidelines for the Preparation of Local Signal Synchronization Plans".

3. Update of GIS-based online signal inventory

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) 548-3462.

Sincerely,

Adolfo Ozaeta, PE, TE
Assistant City Manager
Phone: 714.548-3462
Email: AOzaeta@Westminster-CA.gov

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 Westminster Plan Date: 6/30/2026

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.

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.	1-4	Provided
2. Traffic signal synchronization street routes are identified, including all corridors along the regional signal synchronization network located within the local agency.	6-7	Provided
3. Traffic signal inventory for all traffic signal synchronization street routes. (Note: Updates are also reflected in the online GIS-based signal inventory)	8-10	Provided
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.	11-15	Provided
5. Signal synchronization review, revision, and assessment of synchronization activities along the traffic signal synchronization street routes and traffic signals.	16-21	Provided

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

Signature

6-3-26
Date

ADOLFO OZAETA, ASSISTANT CITY MANAGER
Printed Name, Title

Local Signal Synchronization Plan

Adopted December 2010

Revised May 2026

City of Westminster
Public Works Department

Traffic Engineering Division

SECTION ONE

TRAFFIC SIGNAL SYNCHRONIZATION GOALS, POLICIES AND OBJECTIVES

MEASURE M2 REGIONAL TRAFFIC SIGNAL SYNCHRONIZATION PROGRAM GOALS

The City of Westminster 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.

A major milestone in the City of Westminster's commitment to enhanced mobility was the inauguration of the City of Westminster Traffic Management Center (TMC) in 2010. Major efforts to overhaul the City's aging traffic signal communication system began in 2005. These efforts included, but are not limited to the following:

- Traffic Signal Conduit
- Citywide Fiber Optic Communication
- Traffic Signal Controllers
- Traffic Signal Cabinets
- CCTV Cameras
- Video Image Detection Systems
- Ethernet Switches
- Ethernet Hub Switches
- Traffic Signal Master System
- Citywide Optimized Traffic Signal Plans with Revised Base and Coordination Timing

The City is currently participating in a Project P (Regional Traffic Signal Synchronization Program) grant fund effort that includes upgrading the traffic signal and communication equipment along Bolsa Chica Road.

The City of Westminster Traffic Signal Communication System provides full video surveillance and traffic signal control to every traffic signal in the City via two workstations located in the TMC and the City Traffic Engineer's field laptop. CCTV access is shared with the City of Westminster Emergency Operations Center, Westminster Police Department Watch Commander's Office, and Emergency Dispatch Center. The City of Westminster does not actively record CCTV video, but is fully capable of recording if deemed necessary and approved by the City Manager per the City's Traffic Video Monitoring Camera Recording Policy.

Although the City of Westminster once considered itself one of the most "ITS connected" cities in the County, the Intelligent Transportation System (ITS) world is constantly evolving, and the city's ITS infrastructure is getting outdated and over capacity. The Traffic Engineering Division is staffed by two full-time engineers and one management analyst who allocates approximately 40 percent of her full-time availability to the Division. The goals of the Division are also realized with the assistance of Corporation Yard staff who are utilized on an as-needed basis, and a traffic signal maintenance contract with Yunex Traffic, LLC.

The funding mechanisms within the City of Westminster that realize traffic signal timing and synchronization goals can be categorized into two categories: operations/maintenance and improvements/enhancements.

The City of Westminster allocates $350,000/year for operations/maintenance of the existing traffic signal communication system, including all ITS elements. This is funded by the gas tax fund.

All other Traffic Engineering improvements are funded through competitive grant funding opportunities. In fact, the City's ITS Master Plan was realized exclusively with Measure M1 funding. The Current Measure M2 funding, through Project P, and City traffic impact fee are the sources for ITS related improvements and traffic signal synchronization funding. The City of Westminster is committed to continued participation in Project P. Since its inception, the City has been participating in the following multi-jurisdictional synchronization projects:

- Brookhurst Street Multi-Jurisdictional Synchronization Project
- Goldenwest Street Multi-Jurisdictional Synchronization Project
- Westminster Boulevard Multi-Jurisdictional Synchronization Project
- Magnolia Street Multi-Jurisdictional Synchronization Project
- Garden Grove Boulevard Multi-Jurisdictional Synchronization Project
- Edinger Avenue Multi-Jurisdictional Synchronization Project
- Bolsa Avenue Multi-Jurisdictional Synchronization Project
- Bolsa Chica Street Multi-Jurisdictional Synchronization Project (Currently Underway)

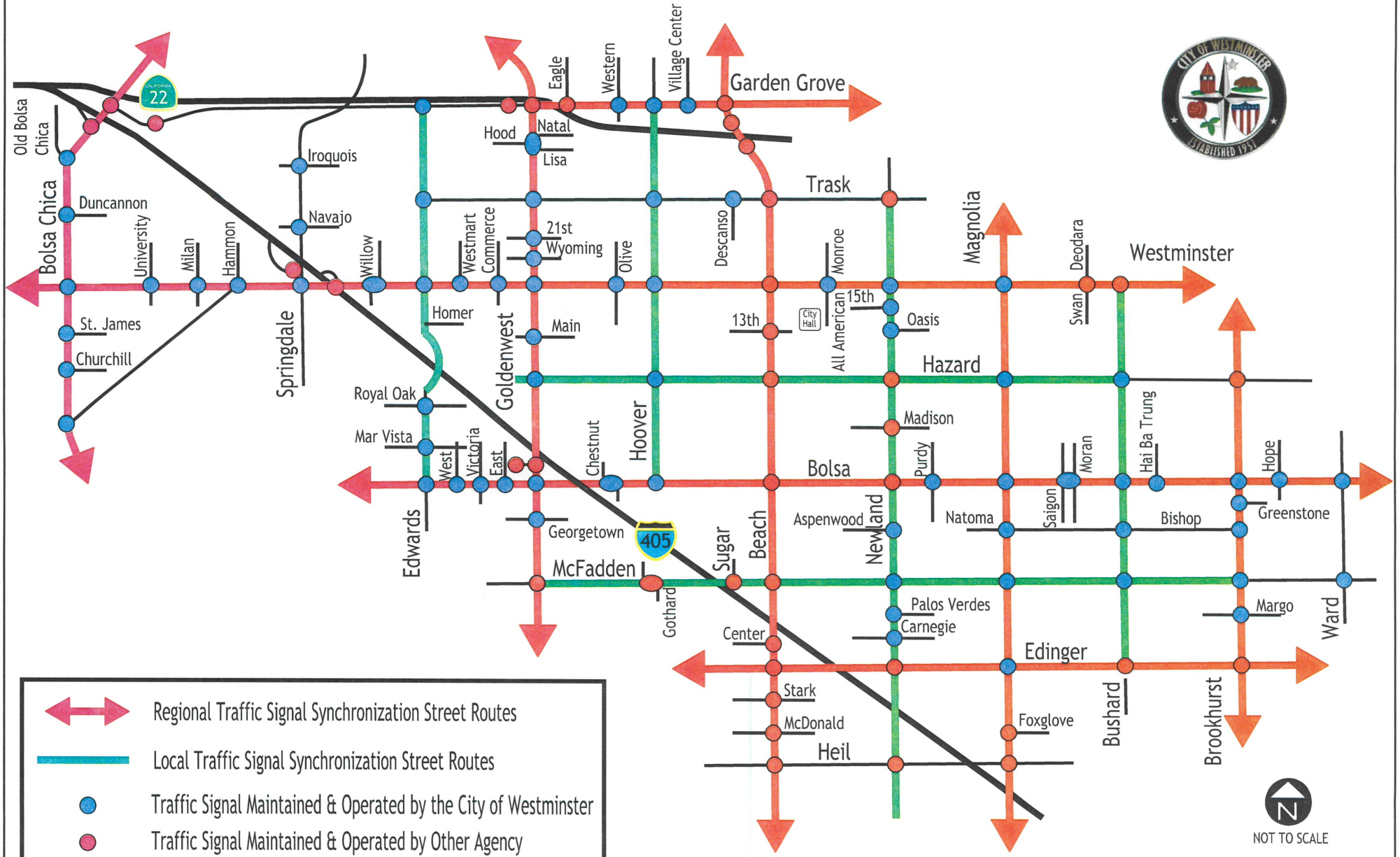
Through the years, the duties of the City of Westminster Traffic Engineering Division have expanded in size, scope and technology; however, the staffing has actually decreased. Even with participation in future Project P efforts, smaller corridors and/or isolated intersections cannot be

served with current Measure M2 funds. The City of Westminster would appreciate OCTA's consideration to expand the eligibility of program expenditures. The recalibration of base timing and/or studies to determine whether a corridor would benefit from synchronization should be eligible as part of a Project P award. Following is the list of corridors that the city hopes to add to Project P eligiblity list, and competes for Measure M2 funding.

- Edwards Street
- Hoover Street
- Newland Street
- Bushard Street
- Trask Avenue
- McFadden Avenue

SECTION TWO

TRAFFIC SIGNAL SYNCHRONIZATION STREET ROUTES (EXISTING AND PLANNED)



May 2026

PREPARED BY: TRAFIC ENGINEERING DIVISION

CITY OF WESTMINSTER

TRAFFIC SIGNAL SYNCHRONIZATION ROUTES

SECTION THREE

TRAFFIC CONTROL INVENTORY

Traffic Synchronization Inventory

City of Westminster

Corridor	Cross Street Intersection	Cycle Length				Maintenance Responsibility	Equipment									
		AM	MID	PM	WKND		Cabinet	Type	Software	Detection	Bike Detection	CCTV	Power Backup	Comm	ATMS	Status
Bolsa Chica Road	Old Bolsa Chica Rd	105	130	140	free	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Duncanon Ave	105	130	140	free	Westminster	P (TS2 Type 1)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Westminster Blvd	140	130	140	120	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	St. James St	140	130	140	free	Westminster	P (TS2 Type 1)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Churchill Ave	140	65	140	free	Westminster	P (TS1)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Rancho Rd	140	130	140	free	HB - 33%	P (TS2 Type 1)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
Springdale St	Iroquosis Rd	free	free	free	free	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Meinhardt Rd/Navajo Rd	free	free	free	free	Westminster	333	2070	Omni	Video	No	N/A	BBS	Fiber	Transparity	Online
	Westminster Blvd	130	120	120	120	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
Edwards St	Garden Grove Blvd	70	70	70	free	Westminster	P (TS2 Type 1)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Trask Ave	free	free	free	free	Westminster	333	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Westminster Ave	130	120	120	120	Westminster	333	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Royal Oak Dr	free	free	free	free	HB - 34.4%	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Mar Vista Dr	free	free	free	free	HB - 34.4%	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Bolsa Ave	120	120	120	120	HB - 50%	P (TS2 Type 1)	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
Goldenwest St	Natal Dr	120	120	120	free	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Loops	No	Bosch	BBS	Fiber	Transparity	Online
	Trask Ave	130	120	120	120	Westminster	333	2070	BI Tran 2033	Loops	No	Cohu	BBS	Fiber	Transparity	Online
	21st St	130	120	120	120	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Loops	No	Bosch	BBS	Fiber	Transparity	Online
	Wyoming St	130	120	120	120	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Loops	No	Cohu	BBS	Fiber	Transparity	Online
	Westminster Blvd	130	120	120	120	Westminster	333	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Main St	130	120	120	120	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Hazard Ave	130	120	120	120	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Bolsa Ave	120	120	120	120	HB - 25%	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Georgetown Ave	120	120	120	120	HB - 25%	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
Hoover St	Garden Grove Blvd	105	105	105	free	GG - 25%	333	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Trask Ave	120	120	120	free	Westminster	P (TS2 Type 1)	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Westminster Blvd	130	120	120	120	Westminster	333	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Hazard Ave	free	free	free	free	Westminster	333	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Bolsa Ave	140	130	140	140	Westminster	P (TS2 Type 2)	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
Newland St	Westminster Blvd	140	130	140	140	Westminster	333	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	15th St	70	65	70	70	Westminster	333	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Oasis Ave	70	65	70	70	Westminster	333	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Aspenwood	free	free	70	free	Westminster	333	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	McFaddden Ave	140	130	140	140	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Loops	No	Bosch	BBS	Fiber	Transparity	Online
	Palos Verdes	70	free	free	free	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Carneigie	70	free	free	free	Westminster	333	2070	BI Tran 2033	Video	No	N/A	BBS	Fiber	Transparity	Online
Magnolia St	Westminster Blvd	140	130	140	140	Westminster	333	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Hazard Ave	140	130	140	140	Westminster	P (TS2 Type 1)	2070	Omni	Loops	No	Cohu	BBS	Fiber	Transparity	Online
	Bolsa Ave	140	130	140	140	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Bishop Pl/Natoma Ave	140	130	140	140	Westminster	P (TS2 Type 1)	2070	Omni	Loops	No	Cohu	BBS	Fiber	Transparity	Online
	McFadden Ave	140	130	140	140	Westminster	P (TS2 Type 1)	2070	Omni	Loops	No	Cohu	N/A	Fiber	Transparity	Online
	Edinger Ave	130	130	130	140	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
Bushard St	Hazard Ave	140	130	140	140	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Bolsa Ave	140	130	140	140	GG - 10%	P (TS2 Type 2)	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Bishop Pl	70	65	70	70	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Loops	No	Bosch	BBS	Fiber	Transparity	Online
	McFadden Ave	140	130	140	140	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online

Corridor	Cross Street Intersection	Cycle Length				Maintenance Responsibility	Equipment									
		AM	MID	PM	WKND		Cabinet	Type	Software	Detection	Bike Detection	CCTV	Power Backup	Comm	ATMS	Status
Brookhurst St	Bolsa Ave	140	130	140	140	Westminster	P (TS2 Type 1)	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Bishop Pl	140	130	140	140	Westminster	P (TS2 Type 1)	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Greenstone	140	130	140	free	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	McFadden Ave	140	130	140	140	Westminster	333	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Margo Ln	140	130	140	140	Westminster	333	2070	Omni	Loops	No	Cohu	BBS	Fiber	Transparity	Online
Garden Grove Blvd	Edwards St	free	free	free	free	Westminster	P (TS2 Type 1)	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Western Ave	105	105	105	free	GG - 33%	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Hoover St	105	105	105	free	GG - 25%	333	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Village Center Dr	105	105	105	free	GG - 33%	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
Trask Ave	Edwards St	free	free	free	free	Westminster	333	2070	BI Tran 2033	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Goldenwest St	130	120	120	120	Westminster	333	2070	BI Tran 2033	Loops	Yes	Bosch	BBS	Fiber	Transparity	Online
	Hoover St	120	120	120	free	Westminster	333	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Descanso Dr	free	free	free	free	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
Westminster Ave	Bolsa Chica Road	120	105	135	120	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	University St	90	90	90	90	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Milan St	90	90	90	90	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Rancho Rd/Hammon Place	90	90	90	90	Westminster	333	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Springdale St	130	120	120	120	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Willow Ln	130	120	120	120	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Edwards St	130	120	120	120	Westminster	333	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Westmart Pl	130	120	120	120	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Commerce Ln	130	120	120	120	Westminster	333	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Goldenwest St	130	120	120	120	Westminster	333	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Olive St	130	120	120	120	Westminster	333	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Hoover St	130	120	120	120	Westminster	333	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Monroe St/All American Way	140	130	140	140	Westminster	333	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Newland St	140	130	140	140	Westminster	333	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Magnolia St	140	130	140	140	Westminster	333	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
Hazard	Goldenwest St	130	120	120	120	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Hoover St	free	free	free	free	Westminster	333	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Magnolia St	140	130	140	free	Westminster	P (TS2 Type 1)	2070	Omni	Loops	No	Cohu	BBS	Fiber	Transparity	Online
	Bushard St	140	130	140	140	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Loops	No	Bosch	BBS	Fiber	Transparity	Online
Bolsa Ave	Edwards St	140	130	140	130	HB - 50%	P (TS2 Type 1)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	West Dr	140	130	140	130	Westminster	P (TS2 Type 2)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Victoria Ln	140	130	140	130	HB - 50%	P (TS2 Type 2)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	East Dr	140	130	140	130	Westminster	P (TS2 Type 2)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Goldenwest St	140	130	140	130	HB - 25%	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Chestnut Ave	140	130	140	130	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Hoover St	140	130	140	130	Westminster	P (TS2 Type 2)	2070	Omni	Video	Yes	Bosch	BBS	Fiber	Transparity	Online
	Purdy St	140	130	140	140	County - 75%	P (TS2 Type 1)	2070	Omni	Loops	No	Bosch	BBS	Fiber	Transparity	Online
	Magnolia St	140	130	140	140	Westminster	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Moran St/Saigon	140	130	140	140	Westminster	P (TS2 Type 1)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Bushard St	140	130	140	140	GG - 10%	P (TS2 Type 1)	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
	Hai Ba Trung	140	130	140	140	Westminster	P (TS2 Type 1)	2070	Omni	Loops	No	Bosch	BBS	Fiber	Transparity	Online
	Brookhurst St	140	130	140	140	Westminster	P (TS2 Type 2)	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Hope St	140	130	140	140	Westminster	P (TS2 Type 2)	2070	Omni	Loops	No	Bosch	BBS	Fiber	Transparity	Online
	Ward St	140	130	140	140	GG - 25%	333	2070	Omni	Video	No	Bosch	BBS	Fiber	Transparity	Online
McFadden Ave	Newland St	140	130	140	140	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Loops	No	Bosch	BBS	Fiber	Transparity	Online
	Magnolia St	141	130	140	140	Westminster	P (TS2 Type 1)	2070	Omni	Loops	No	Cohu	BBS	Fiber	Transparity	Online
	Bushard St	140	130	140	140	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Brookhurst St	140	130	140	140	Westminster	333	2070	Omni	Video	No	Cohu	BBS	Fiber	Transparity	Online
	Ward St	free	free	free	free	Westminster	P (TS2 Type 1)	2070	BI Tran 2033	Video	No	Cohu	BBS	Fiber	Transparity	Online

SECTION FOUR

TRAFFIC SIGNAL SYNCHRONIZATION SYSTEM AND THREE YEAR PLAN

3-YEAR OUTLOOK
TRAFFIC SIGNAL SYNCHRONIZATION

Funding Needs for Synchronized Operation (Constrained)

Reporting Jurisdiction Expenditures: City of Westminster

Type of Traffic Signal Synchronization Expenditures in Year of Expenditure Dollars (Note that sample expenditure categories are included - modify as necessary.)

MAINTENANCE

PROJECT	FY 26/27	FY 27/28	FY 28/29	TOTAL
Communication and Software Maintenance	$10,000	$10,000	$10,000	$30,000
Traffic Signal & Communication Maintenance	$150,000	$150,000	$150,000	$450,000
Subtotal Maintenance	$160,000	$160,000	$160,000	$480,000

CONSTRUCTION

PROJECT	FY 26/27	FY 27/28	FY 28/29	TOTAL
Bolsa Chica Street Signal Synchronization	$85,000	--	--	$85,000
	$85,000	--	--	$85,000
Subtotal Construction	$85,000	--	--	$85,000

OPERATIONS

PROJECT	FY 26/27	FY 27/28	FY 28/29	TOTAL
Citywide Signal Timing Maintenance	$21,000	--	--	$21,000
Subtotal Operations	$21,000	--	--	$21,000
TOTAL	$266,000	$160,000	$160,000	$566,000

3-YEAR OUTLOOK
TRAFFIC SIGNAL SYNCHRONIZATION

Funding Needs for Synchronized Operation (Unconstrained)

Reporting Jurisdiction Expenditures: City of Westminster

Type of Traffic Signal Synchronization Expenditures in Year of Expenditure Dollars (Note that sample expenditure categories are included - modify as necessary.)

MAINTENANCE

PROJECT	FY23/24	FY24/25	FY25/26	TOTAL
Communication and Software Maintenance	$450,000	$450,000	$450,000	$1,350,000
Video detection system	$500,000	$500,000	$500,000	$1,500,000
Subtotal Maintenance	$950,000	$950,000	$950,000	$2,850,000

CONSTRUCTION

PROJECT	FY23/24	FY24/25	FY25/26	TOTAL
Citywide Signal Synchronization	$140,000	$140,000	$140,000	$420,000
Citywide ITS Improvements	$225,000	$225,000	$225,000	$675,000
Signal System Upgrade (hardware)	$140,000	$140,000	$140,000	$420,000
Traffic Management Center	$100,000	$100,000	$100,000	$300,000
Communication Network Upgrade	$600,000	$600,000		$1,200,000
Subtotal Construction	$1,205,000	$1,205,000	$605,000	$3,015,000

OPERATIONS

PROJECT	FY23/24	FY24/25	FY25/26	TOTAL
Citywide Signal Timing Maintenance	$60,000	$60,000	$60,000	$180,000
Upgrade Video Management Software	$50,000	--	--	$50,000
Subtotal Operations	$110,000	$60,000	$60,000	$230,000
TOTAL	$2,265,000	$2,215,000	$1,615,000	$6,095,000

LSSP IMPLEMENTATION – CANDIDATE SIGNAL SYNCHORNIZATION PROJECTS WITH ESTIMATED COSTS TO COMPLETE PLANNED NETWORK

Reporting Jurisdiction Expenditures: City of Westminster

(Note: Include estimated cost for currently uncoordinated corridors, conversion of existing corridors to improve compatibility, and TMC upgrades if appropriate. Do not include equipment that meets current needs but has not yet reached the end of its normal life cycle. This is a build-out budget.)

CORRIDOR	IMPROVEMENT SUMMARY	ESTIMATED COST
Example: Main Street	Upgrade timing and replace controllers, cabinets, and detection.	$650,000
Westminster Avenue	Replace controllers. Conversion of timing to Transparity. Develop new synchronization plans. Install video detection, upgrade Ethernet switches, communication equipment, and CCTV cameras.	$750,000
Goldenwest Street	Replace controllers. Conversion of timing to Transparity. Develop new synchronization plans. Install video detection, upgrade Ethernet switches, communication equipment, and CCTV cameras.	$650,000
Hoover Street	Develop new synchronization plans. Upgrade Ethernet switches, communication equipment, and CCTV cameras.	$300,000
Springdale Avenue	Develop new synchronization plans. Install video detection, upgrade Ethernet switches, and CCTV cameras. Upgrade communication equipment.	$400,000
Newland Street	Replace controllers. Conversion of timing to Transparity. Develop new synchronization plans. Install video detection, upgrade Ethernet switches, communication equipment, and CCTV cameras.	$450,000
Edwards Street	Replace controllers. Conversion of timing to Transparity. Develop new synchronization plans. Install video detection, upgrade Ethernet switches, communication equipment, and CCTV cameras.	$425,000
Bushard Street	Replace controllers. Conversion of timing to Transparity. Develop new synchronization plans. Install video detection, upgrade Ethernet switches, communication equipment, and CCTV cameras.	$400,000
Trask Avenue	Replace controllers. Conversion of timing to Transparity. Develop new synchronization plans. Install video detection, upgrade	$370,000

	Ethernet switches, communication equipment, and CCTV cameras.	
Hazard Avenue	Replace controllers. Conversion of timing to Transparity. Develop new synchronization plans. Install video detection, upgrade Ethernet switches, communication equipment, and CCTV cameras.	$375,000
McFadden Avenue	Replace controllers. Conversion of timing to Transparity. Develop new synchronization plans. Install video detection, upgrade Ethernet switches, communication equipment, CCTV cameras, and the communication network.	$400,000
	Total Estimated Cost	**$4,520,000**

SECTION FIVE

TRAFFIC SIGNAL SYNCHRONIZATION ASSESSMENT REVIEW AND REVISE, AS MAY BE NECESSARY, THE TIMING OF TRAFFIC SIGNALS

Significant timing plan updates and projects completed FY 2023/2024 through 2025/2026

The City of Westminster is committed to continued participation in Project P. The City Traffic Engineer and city staff participated in several study sessions with OCTA staff as the program guidelines were being developed. As expected, the Corridor Synchronization Performance Index (CSPI) was very well received by our Mayor and City Council, and Traffic Commissioners. The CSPI has a heavier reliance on stops, and the scoring system allows for a comparison of corridors, leading to more effective decisions in allocating funding for traffic signal synchronization. For too many years, the traffic engineering industry focused on emissions, vehicle miles of travel lost, delays in the context of economic loss, etc. Unfortunately, these older methods did not achieve the desired levels of political and public support. The City of Westminster remains committed to utilizing the CSPI as the preferred method of assessing traffic signal synchronization.

OCTA Corridor Synchronization Performance Index:
For projects funded under the Measure M2 Regional Traffic Signal Synchronization Program (Project P), the OCTA Corridor Synchronization Performance Index (CSPI) methodology is used. This index is calculated from data based on vehicle travel parameters, including:

- Average vehicle speed
- Stops per mile
- The ratio of green signals to red signals.

A calculation of the results from each of the categories produces a CSPI score. Depending on the score, the signal synchronization of an arterial would be rated according to one of the following performance levels:

Tier 1 – Very Good Signal Synchronization (CSPI Score > 80)
Tier 2 – Good Signal Synchronization (CSPI Score > 70 to 80)
Tier 3 – Average Signal Synchronization (CSPI Score > 60 to 70
Tier 4 – Below Average Signal Synchronization (CSPI Score > 50 to 60)
Tier 5 – Signal Synchronization Needs Improvement (CSPI Score < 50)

As required, CSPI analyses are performed in conjunction with the implementation phase of the two multi-jurisdictional traffic signal synchronization projects that the City has participated in since the 2023 LSSP Update.

Since 2023, the City has accepted participation in the following multi-jurisdictional

synchronization projects:

- Bolsa Avenue – First Street Multi-Jurisdictional Synchronization Project (Operations and Maintenance Phase)
- Bolsa Chica Road Multi-Jurisdictional Synchronization Project (Currently Underway)

The scope of work for these projects included the following key elements:

- Optimized Traffic Signal Plans with Revised Base and Coordination Timing
- Traffic Signal Cabinet Replacement at Various Locations
- ITS Equipment Replacement at Various Locations
- Video Detection System Installation/Upgrade at Various Locations

Please note that more expensive infrastructure efforts, such as the installation of conduit, fiber optic communication, and related communications equipment, were not included in the aforementioned projects. These efforts were installed during the final funding efforts of Measure M2, and their replacement has been funded by the City's Traffic Signal Maintenance Program.

The City's strategy for successful Project P efforts revolves around the daily interaction between city staff and the contractor and consultant. The City facilitates access to the City's equipment and oversees construction and proposed traffic signal timing changes. Once construction has concluded and timing has been deployed, the City is responsible for the oversight of the adopted signal changes. At this point, the project is deemed to be complete, and the related cost for the operation of the signal system is the responsibility of the City of Westminster.

Since 2025, the City has been participating in the OCTA Countywide Signal Synchronization Baseline project, which will re-time approximately 2,500 signals in Orange County. The project includes approximately 53 traffic signals along major arterial corridors such as Bolsa Chica Road, Goldenwest Street, Magnolia Street, Brookhurst Street, Garden Grove Boulevard, Westminster Boulevard, and Bolsa Avenue. The corridor operational performance results are tabulated in a table shown later in this report. As for updating timing plans, the City has taken a proactive approach to monitoring the corridors and upgrading signal timing as needed. As a regular practice, the city's corridors are periodically traveled to monitor signal operations and make adjustments as needed.

TRAFFIC SIGNAL SYNCHRONIZATION ASSESSMENT, REVIEW, AND REVISION

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*	
			Before	After	Before	After	Before	After	Before	After
Bolsa Avenue	2023	Yes	20.6	23.34	1.60	1.00	1.99	3.70	55.59	80.26
Bolsa Chica Road	2026	Yes	Studies not yet available.							

* Optional

Include Optional Description

SIGNAL TIMING REVISIONS

SIGNAL TIMING REVISIONS

Project Corridor	Cross-Street	Cycle Length (Before/After)							
		AM		MD		PM		WKND	
		Before	After	Before	After	Before	After	Before	After
Bolsa Chica Rd	Old Bolsa Chica	120	105	105	130	135	140	free	free
	Duncannon Ave	120	105	105	130	135	140	free	free
	Westminster Blvd	120	140	105	130	135	140	120	free
	St. James Park	60	140	105	130	135	140	free	free
	Churchill Ave	60	140	105	65	135	140	free	free
	Rancho Ave	120	140	105	130	135	140	free	free
Hoover St	Garden Grove Blvd	105	105	105	105	105	105	free	free
	Trask Ave	free	120	free	120	free	120	free	free
	Westminster Blvd	130	130	130	120	120	120	120	120
	Hazard Ave	free	free	free	free	free	free	free	free
	Bolsa Ave	60	140	60	130	60	140	free	free
Garden Grove Blvd	Edwards St	free	70	free	70	free	70	free	free
	Hoover St	105	105	105	105	105	105	free	free
Edwards St	Garden Grove Blvd	free	70	free	70	free	70	free	free
	Trask Ave	free	free	free	free	free	free	free	free
Bolsa Ave	Edwards St	120	140	120	130	120	140	120	130
	West	120	140	120	130	120	140	120	130
	Victoria Ln	120	140	120	130	120	140	120	130
	East	120	140	120	130	120	140	120	130
	Goldenwest St	120	140	120	130	120	140	120	130
	Chestnut/Goldenwest Cir	120	140	120	130	120	140	120	130
	Hoover St	60	140	60	130	60	140	free	130
	Purdy St	free	140	free	130	free	140	free	140
	Magnolia St	140	140	130	130	140	140	140	140
	Moran St/Saigon	140	140	130	130	140	140	140	140
	Bushard St	140	140	130	130	140	140	140	140
	Hai Ba Trung	140	140	130	130	140	140	140	140
	Brookhurst St	140	140	130	130	140	140	140	140
	Hope St	140	140	130	130	140	140	140	140
	Ward St	140	140	130	130	140	140	140	140

APPENDIX

CITY OF WESTMINSTER
2026 CORRIDOR OPERATIONAL PERFORMANCE

Orange County Corridor Operational Performance
City of Westminster - March 2026

Route Number	Route Name	Average Percent of Free-Flow Speed (%) *			Adjusted Level-of-Service (LOS)**			Route Length (mile)
		AM	MD	PM	AM	MD	PM	
1296	Westminster Blvd (EB) (Bolsa Chica - Bushard)	65.9	60.7	58.6	D	D	E	4.6
1297	Westminster Blvd (WB) (Bolsa Chica - Bushard)	71.3	64.7	61.7	C	D	D	4.6
1298	Bolsa Ave (EB) (Edwards - Ward)	76.1	68.6	66.8	C	D	D	4.1
1299	Bolsa Ave (WB) (Edwards - Ward)	77.1	68.7	69.8	C	D	D	4.1
1300	Edinger Ave (EB) (Beach - Brookhurst)	69.5	66.6	63.4	D	D	D	2.1
1301	Edinger Ave (WB) (Beach - Brookhurst)	74.6	69.2	67.2	C	D	D	2.1
1302	Brookhurst St (SB) (Hazard - Edinger)	68.9	60.3	58.8	D	D	E	1.7
1303	Brookhurst St (NB) (Hazard - Edinger)	67.1	58.1	55.9	D	E	E	1.7
1304	Magnolia St (SB) (Westminster - Heil)	70.9	68.6	62.7	C	D	D	2.6
1305	Magnolia St (NB) (Westminster - Heil)	68.8	59.8	54.5	D	E	E	2.6
1306	Beach Blvd (SB) (Garden Grove - Heil)	62.1	59.7	57.0	D	E	E	3.6
1307	Beach Blvd (NB) (Garden Grove - Heil)	67.8	56.7	46.9	D	E	F	3.6
1308	Goldenwest St (SB) (Garden Grove - McFadden)	71.9	69.4	68.8	C	D	D	2.6
1309	Goldenwest St (NB) (Garden Grove - McFadden)	72.4	66.5	61.8	C	D	D	2.6
1310	Bolsa Chica (SB) (Garden Grove - Rancho Rd)	83.6	86.1	85.9	B	B	B	2.0
1311	Bolsa Chica (NB) (Garden Grove - Rancho Rd)	82.6	77.5	76.7	B	C	C	1.9
1312	Garden Grove Blvd (EB) (Goldenwest - Beach)	57.5	56.6	52.3	E	E	E	0.9
1313	Garden Grove Blvd (WB) (Goldenwest - Beach)	60.3	56.2	50.6	D	E	E	0.9

* Source: Iteris ClearGuide

** Adjusted Level-of-Service (LOS) Definition

LOS	Desirable Speed
A	Average Travel Speed exceeds 90% of the base free-flow speed
B	Average Travel Speed is between 80% and 90% of the base free-flow speed
C	Average Travel Speed is between 70% and 80% of the base free-flow speed
D	Average Travel Speed is between 60% and 70% of the base free-flow speed
E	Average Travel Speed is between 50% and 60% of the base free-flow speed
F	Average Travel Speed is less than 50% of the base free-flow speed