2023 Measure M2 CTFP (Projects O & P) Call For Projects (Call) Workshop

Tuesday, August 23, 2022

INTRODUCTION AND OVERVIEW

- **Purpose of Workshop – Overview of 2023 CTFP Call Process**
- **Agenda:**
  - 2023 Call Schedule
  - 2023 Guidelines and Resources
  - Application Overview
  - 2023 Project O Call
  - 2023 Project P Call
  - Application Submittal
  - Q&A

2023 CTFP CALL SCHEDULE

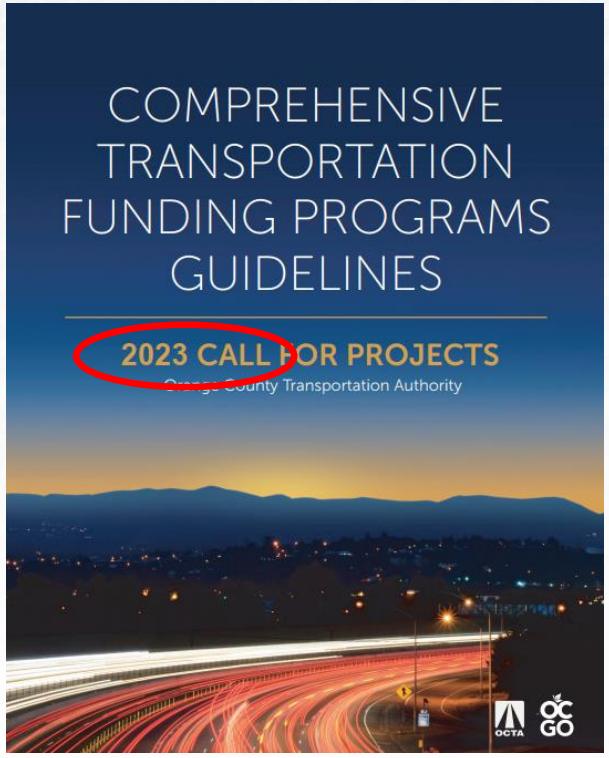
- Call Issued: August 8, 2022
- Pre-Application Consultations: Now - Thursday, Oct. 20, 2022 at 5:00pm
- Applications Due: **Thursday, Oct. 20, 2022 at 5:00pm**
- Qualitative Reviews: Nov. 2022/Jan. 2023
- Local Agency Coordination: Nov./Dec. 2022 – Feb. 2023
- Funding Recommendations by Spring, 2023

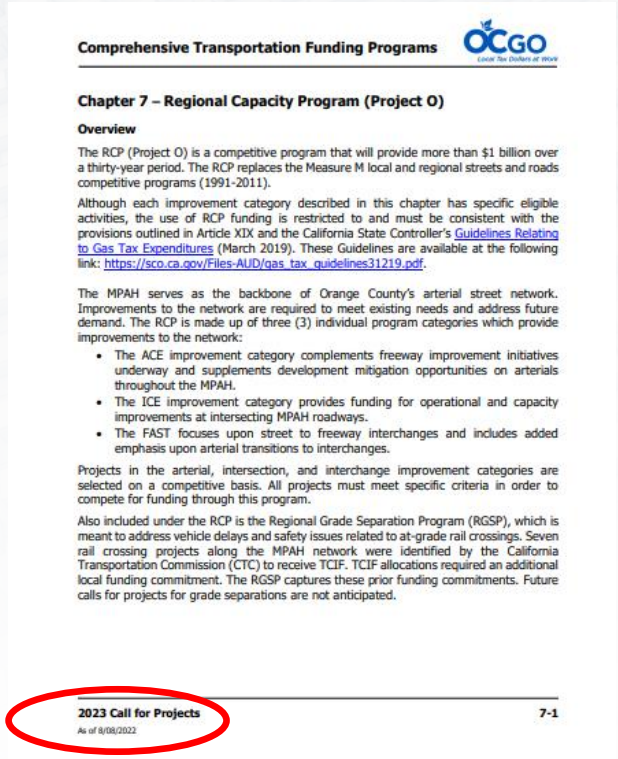
Please note: *Alternative Analysis (HCM) Methodology and New Facilities must be modeled through OCTAM and requests must be submitted to OCTA by September 8, 2022*

2023 CTFP GUIDELINES AND RESOURCES

CTFP Guidelines (2023 Edition) : https://www.octa.net/pdf/CTFPGuidelines2023.pdf?n.

- **Reviewed and approved by OCTA TSC and TAC (April 2022) and OCTA RP&H and Board (August 2022)**
- **Provides checklist and application requirements:** Supplemental information, checklists, and resolution templates are provided in Chapter 7 (ACE, ICE, & Fast) and Chapter 8 (RTSSP)





Comprehensive Transportation Funding Programs

OCGO

Chapter 7 – Regional Capacity Program (Project O)

Overview

The RCP (Project O) is a competitive program that will provide more than $1 billion over a thirty-year period. The RCP replaces the Measure M local and regional streets and roads competitive programs (1991-2011).

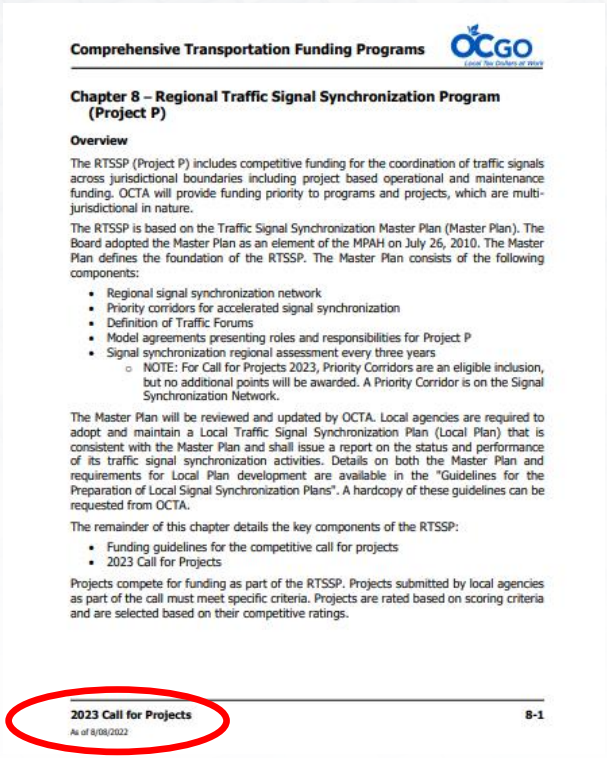
Although each improvement category described in this chapter has specific eligible activities, the use of RCP funding is restricted to and must be consistent with the provisions outlined in Article XIX and the California State Controller's Guidelines Relating to Gas Tax Expenditures (March 2019). These Guidelines are available at the following link: https://sco.ca.gov/Files-AUD/gas_tax_guidelines31219.pdf.

The MPAH serves as the backbone of Orange County's arterial street network. Improvements to the network are required to meet existing needs and address future demand. The RCP is made up of three (3) individual program categories which provide improvements to the network:

- The ACE improvement category complements freeway improvement initiatives underway and supplements development mitigation opportunities on arterials throughout the MPAH.
- The ICE improvement category provides funding for operational and capacity improvements at intersecting MPAH roadways.
- The FAST focuses upon street to freeway interchanges and includes added emphasis upon arterial transitions to interchanges.

Projects in the arterial, intersection, and interchange improvement categories are selected on a competitive basis. All projects must meet specific criteria in order to compete for funding through this program.

Also included under the RCP is the Regional Grade Separation Program (RGSP), which is meant to address vehicle delays and safety issues related to at-grade rail crossings. Seven rail crossing projects along the MPAH network were identified by the California Transportation Commission (CTC) to receive TCIF. TCIF allocations required an additional local funding commitment. The RGSP captures these prior funding commitments. Future calls for projects for grade separations are not anticipated.



Comprehensive Transportation Funding Programs

OCGO

Chapter 8 – Regional Traffic Signal Synchronization Program (Project P)

Overview

The RTSSP (Project P) includes competitive funding for the coordination of traffic signals across jurisdictional boundaries including project based operational and maintenance funding. OCTA will provide funding priority to programs and projects, which are multi-jurisdictional in nature.

The RTSSP is based on the Traffic Signal Synchronization Master Plan (Master Plan). The Board adopted the Master Plan as an element of the MPAH on July 26, 2010. The Master Plan defines the foundation of the RTSSP. The Master Plan consists of the following components:

- Regional signal synchronization network
- Priority corridors for accelerated signal synchronization
- Definition of Traffic Forums
- Model agreements presenting roles and responsibilities for Project P
- Signal synchronization regional assessment every three years
  - NOTE: For Call for Projects 2023, Priority Corridors are an eligible inclusion, but no additional points will be awarded. A Priority Corridor is on the Signal Synchronization Network.

The Master Plan will be reviewed and updated by OCTA. Local agencies are required to adopt and maintain a Local Traffic Signal Synchronization Plan (Local Plan) that is consistent with the Master Plan and shall issue a report on the status and performance of its traffic signal synchronization activities. Details on both the Master Plan and requirements for Local Plan development are available in the "Guidelines for the Preparation of Local Signal Synchronization Plans". A hardcopy of these guidelines can be requested from OCTA.

The remainder of this chapter details the key components of the RTSSP:

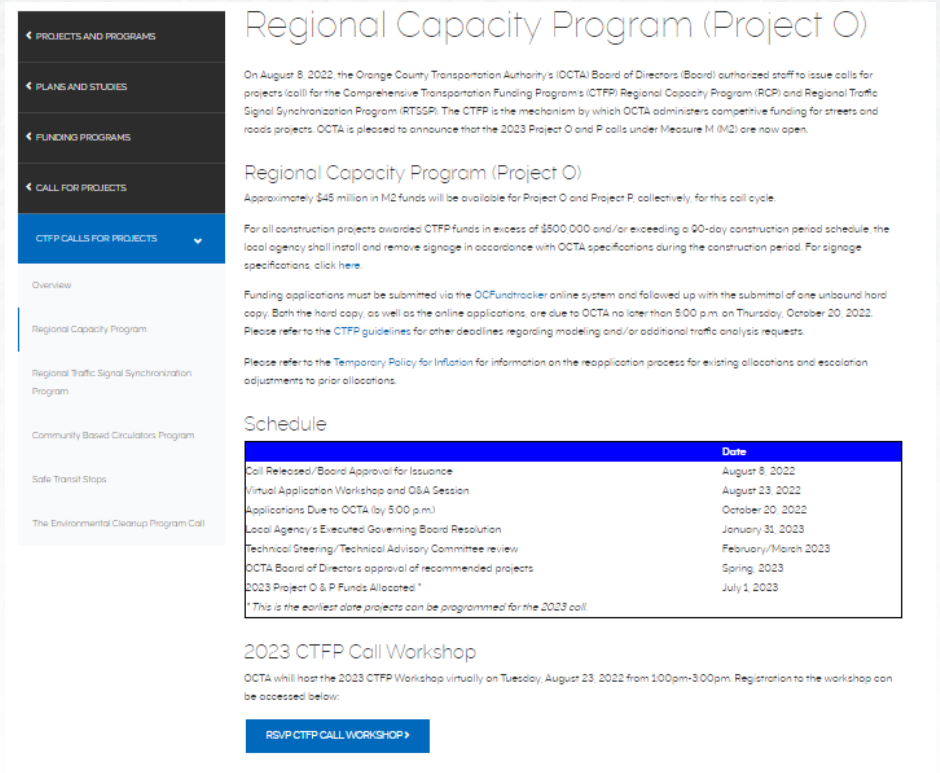
- Funding guidelines for the competitive call for projects
- 2023 Call for Projects

Projects compete for funding as part of the RTSSP. Projects submitted by local agencies as part of the call must meet specific criteria. Projects are rated based on scoring criteria and are selected based on their competitive ratings.

2023 CTFP GUIDELINES AND RESOURCES

Project O (RCP) Webpage:

http://www.octa.net/Projects-and-Programs/Plans-and-Studies/Funding-Programs/Call-for-Projects/CTFP-Calls-for-Projects/Regional-Capacity-Program/



PROJECTS AND PROGRAMS
PLANS AND STUDIES
FUNDING PROGRAMS
CALL FOR PROJECTS
CTFP CALLS FOR PROJECTS
Overview
Regional Capacity Program
Regional Traffic Signal Synchronization Program
Community Based Circulators Program
Safe Transit Stops
The Environmental Cleanup Program Call

Regional Capacity Program (Project O)

On August 8, 2022, the Orange County Transportation Authority's (OCTA) Board of Directors (Board) authorized staff to issue calls for projects (call) for the Comprehensive Transportation Funding Programs (CTFP) Regional Capacity Program (RCP) and Regional Traffic Signal Synchronization Program (RTSSP). The CTFP is the mechanism by which OCTA administers competitive funding for streets and roads projects. OCTA is pleased to announce that the 2023 Project O and P calls under Measure M (M2) are now open.

Regional Capacity Program (Project O)

Approximately $45 million in M2 funds will be available for Project O and Project P, collectively, for this call cycle.

For all construction projects awarded CTFP funds in excess of $500,000 and/or exceeding a 90-day construction period schedule, the local agency shall install and remove signage in accordance with OCTA specifications during the construction period. For signage specifications, click here.

Funding applications must be submitted via the OCFundtracker online system and followed up with the submittal of one unbound hard copy. Both the hard copy, as well as the online applications, are due to OCTA no later than 5:00 p.m. on Thursday, October 20, 2022. Please refer to the CTFP guidelines for other deadlines regarding modeling and/or additional traffic analysis requests.

Please refer to the Temporary Policy for Inflation for information on the reapplication process for existing allocations and escalation adjustments to prior allocations.

Schedule

	Date
Call Released/Board Approval for Issuance	August 8, 2022
Virtual Application Workshop and Q&A Session	August 23, 2022
Applications Due to OCTA (by 5:00 p.m.)	October 20, 2022
Local Agency's Executed Governing Board Resolution	January 31, 2023
Technical Steering/Technical Advisory Committee review	February/March 2023
OCTA Board of Directors approval of recommended projects	Spring, 2023
2023 Project O & P Funds Allocated *	July 1, 2023

* This is the earliest date projects can be programmed for the 2023 call.

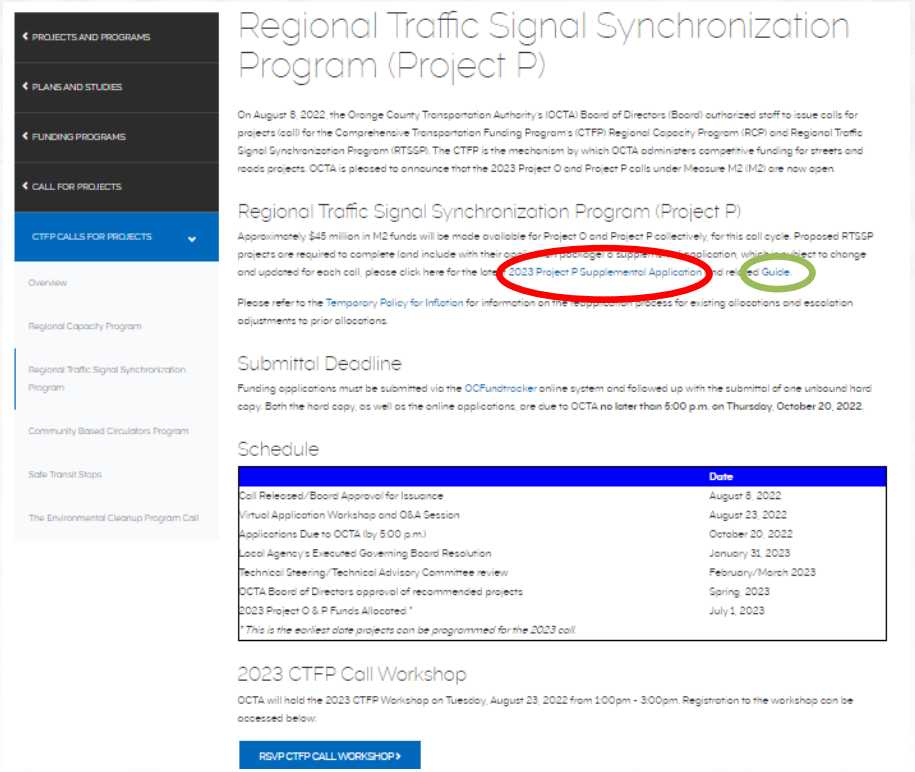
2023 CTFP Call Workshop

OCTA will host the 2023 CTFP Workshop virtually on Tuesday, August 23, 2022 from 1:00pm-3:00pm. Registration to the workshop can be accessed below:

RSVP CTFP CALL WORKSHOP >

Project P (RTSSP) Webpage:

http://www.octa.net/Projects-and-Programs/Plans-and-Studies/Funding-Programs/Call-for-Projects/CTFP-Calls-for-Projects/Regional-Traffic-Signal-Synchronization-Program/



PROJECTS AND PROGRAMS
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CTFP CALLS FOR PROJECTS
Overview
Regional Capacity Program
Regional Traffic Signal Synchronization Program
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The Environmental Cleanup Program Call

Regional Traffic Signal Synchronization Program (Project P)

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Regional Traffic Signal Synchronization Program (Project P)

Approximately $45 million in M2 funds will be made available for Project O and Project P collectively, for this call cycle. Proposed RTSSP projects are required to complete (and include with their applications) a supplemental application, which is subject to change and updated for each call, please click here for the latest 2023 Project P Supplemental Application and related Guide.

Please refer to the Temporary Policy for Inflation for information on the reapplication process for existing allocations and escalation adjustments to prior allocations.

Submittal Deadline

Funding applications must be submitted via the OCFundtracker online system and followed up with the submittal of one unbound hard copy. Both the hard copy, as well as the online applications, are due to OCTA no later than 5:00 p.m. on Thursday, October 20, 2022.

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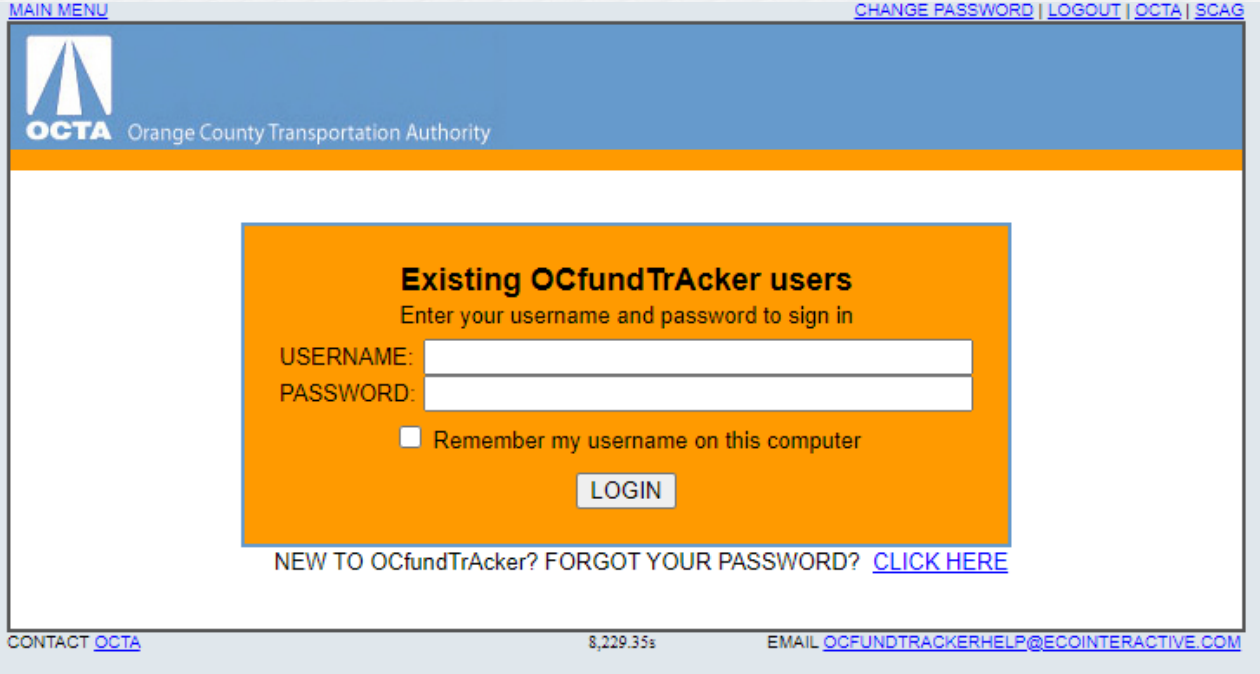
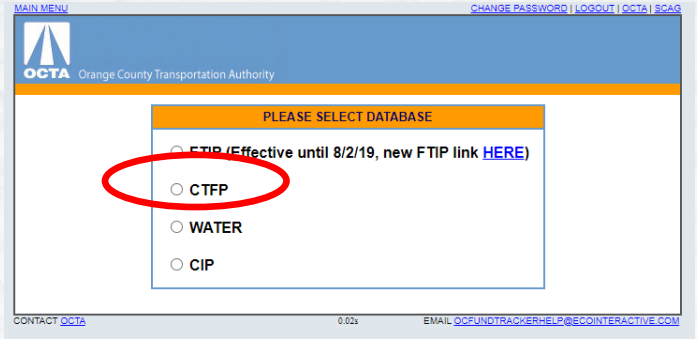
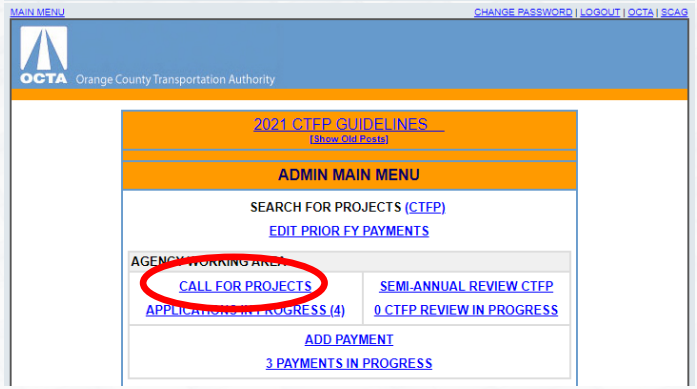
RSVP CTFP CALL WORKSHOP >

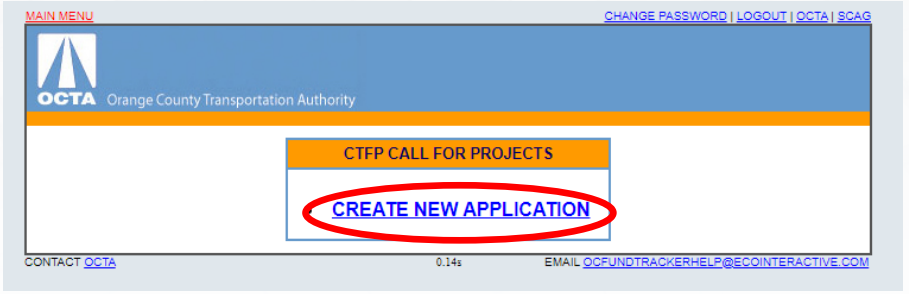
APPLICATION OVERVIEW

OCFundtracker – all online applications are submitted through the OCFundtracker portal: https://ocfundtracker.octa.net/login.asp









To Create a New Application:

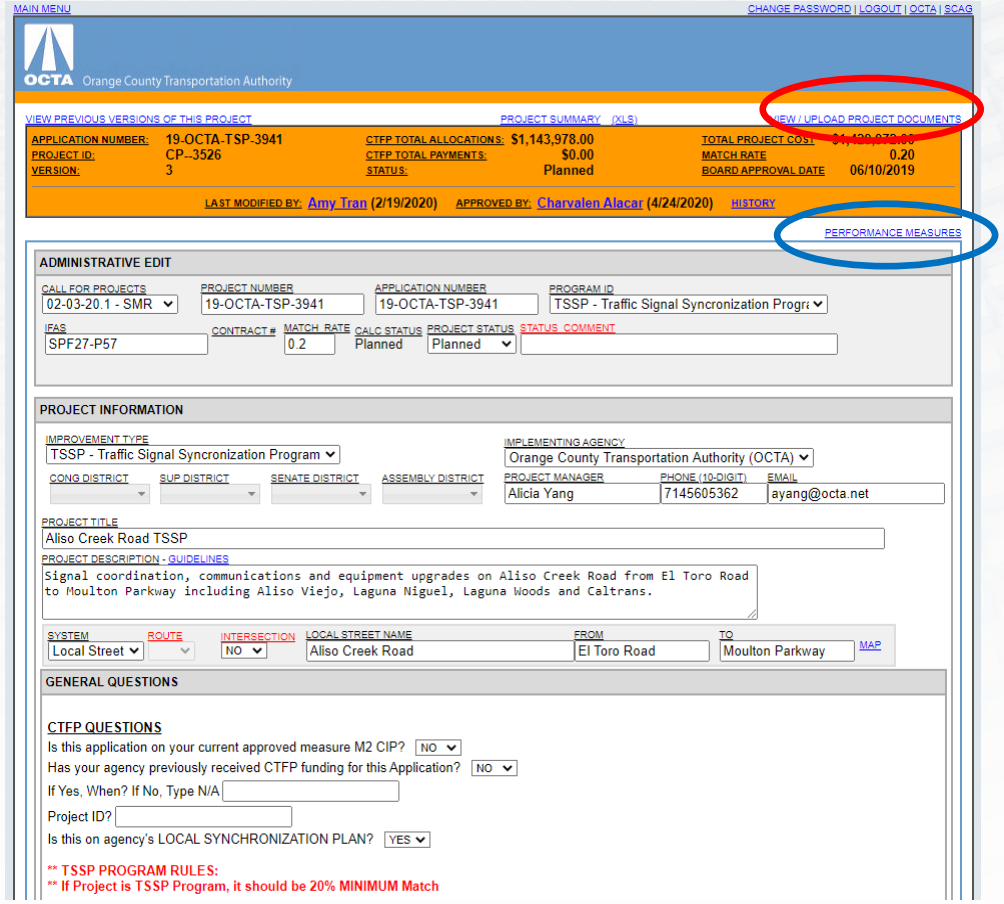
Login>CTFP Database>Call for Projects>Create New Application

Need help? See OCFundtracker training manual:

http://octa.net/pdf/OCFundtrackerTrainingManual.pdf

APPLICATION OVERVIEW

Upload large electronic files through OCFundtracker application for each funding request



Examples of Application Attachments:

- ADT Counts
- LOS Calculations
- Maps/GIS files
- Engineering and Environmental Documents
- Photos
- Resolution
- Project Development Documents (Project/Materials Report)
- Approved Project Construction Plans
- **Project P (RTSSP) – 2023 Supplemental Application**
- Cost Estimates
- Excess ROW Report
- Other Relevant Materials

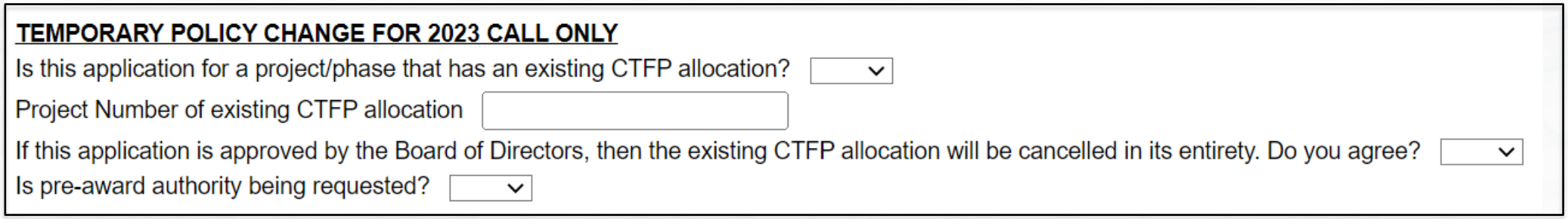
Performance Measures Data for Applications

- For ACE, ICE, or FAST (construction phase only) total number of proposed operational improvements and proposed project attributes).
- For RTSSP total number of proposed signals, proposed corridor miles, and other corridor input.

APPLICATION OVERVIEW

Changes to Application (OCFundtracker) – Project O (RCP) & P (RTSSP)

- Temporary Policy for Inflation
  - New criteria under General Questions section – if new application approved, agreeing to cancellation of existing allocation



Temporary Policy for Inflation Guidelines:
https://www.octa.net/pdf/CTFPTemporaryPolicyForFInflation.pdf

2023 Project O Call

2023 PROJECT O CALL

Overview:

Provides M2 Project O improvements to the Orange County MPAH along with improvements to help improve intersections and street operations that reduce congestion and increase capacity.

2023 Funding Availability:

- Estimated Amount Available: **$45M for O & P Collectively**
- Program Period: FY23/24 – FY25/26
- No formal project maximum cost
- Tiered Program (see table)
- 50% Minimum Match
- Match Funding Discounts:
  - 5% Reduction for commitment not to use M2 Net Revenues
  - 10% Reduction for Local Signal Synchronization Plan (LSSP) regional consistency
  - 10% Reduction for Meeting certain Pavement Management Plan (PMP) Criteria

	Category 1 (60%)	Category 2 (40%)
Tier I >=50 points	• $0 - $5 million • Score at least 50 points • Logical, standalone project • Unallocated balance shifts to Tier II for programming	• $5+ million request • Score at least 50 points • Logical, standalone project • Unallocated balance shifts to Tier II for programming
Tier II	• Balance of unallocated funds from Tier I prioritization • Request can be of any dollar value to compete in Tier II • Multiple segments of the same project cannot be submitted under both categories.	

2023 PROJECT O CALL

Categories

Arterial Capacity Enhancements (ACE)

- Arterial improvements including capacity and operational modifications
- Can be corridor based but major intersections may be required to be segregated
- Additional potential project elements may require further eligibility approval from OCTA

Freeway Arterial/Streets Transitions (FAST)

- Transitions from the street to freeway system
- Requires concurrence with Caltrans prior to consideration
- May require separate Cooperative Agreements with OCTA

Intersection Capacity Enhancements (ICE)

- Intersection improvements including capacity and operational modifications
- Value engineering will be required to justify full take acquisitions
- ICU is standard basis for level of service calculation (Page 7-35)
  - HCM or alternative methodology may be considered in consultation with OCTA prior to application submission. All requests due by September 8, 2022
  - Must have a minimum existing LOS of “D” (.81 v/c) to qualify for priority consideration

2023 PROJECT O CALL

Phases

- **Sequential Programming**:
  - Planning Phase (Environmental and Engineering)
  - Implementation Phase (ROW and Construction*)
- **Fast Track** option available for **limited** project types – Planning and Implementation Phases at same time.
  - Must demonstrate policy variance is necessary
  - Only permitted for projects that do NOT have ROW acquisition

ROW or Construction funding requests **cannot be considered unless **project is environmentally cleared at the time of the application***

2023 PROJECT O CALL

Changes to Guidelines – CH.7 Project O (RCP)

General Updates: Call Dates, Deadlines, and Funding Amounts.

Other Notable Changes Include:

- Related to Scoring Criteria
  - Revisions to “Operational Attributes” to emphasize safety and incentivize Active Transportation Program attributes (within the roadway) that are executed as part of an approved local or regional transportation plan.
- Related to Application Format:
  - Hardcopies of plans and drawings must be in a minimum size of 11 x 17 inches.

Q & A

Please use the Q&A or raise hand to ask questions

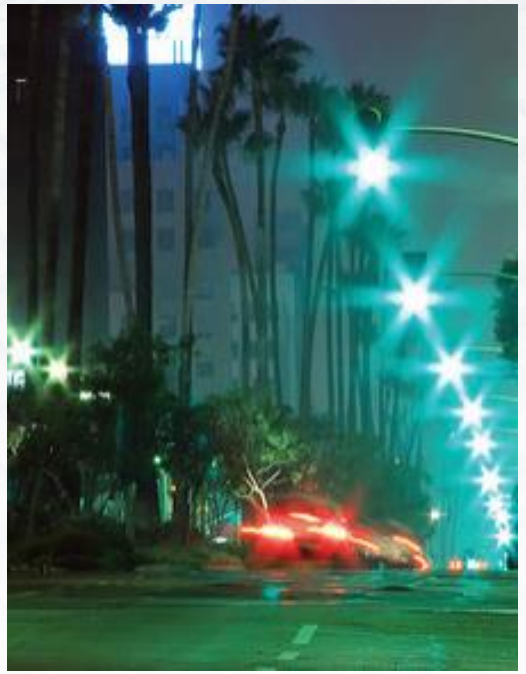
**6 to unmute / *9 to raise hand*

2023 Project P Call

2023 PROJECT P CALL

Overview:

M2 Project P funding for multi-agency, corridor-based signal synch throughout Orange County.



2023 Funding Availability:

- Estimated Amount Available: **$45M for O & P Collectively**
- Program Period: FY23/24 – FY25/26
- 20% Minimum Match
- $250k/corridor** mile or $75k/signal (whichever is higher)
- Local Agency-led projects only this cycle (OCTA does not have capacity to lead projects during this cycle)

Phases

- Primary Implementation and On-going Operations & Maintenance

***Applies to main corridor only*

2023 PROJECT P CALL

Minimum requirements

- ✓ Must be on SSN/MPAH and consistent with LSSP and TSSMP goals

  AND

- ✓ One of the following:
  - Multi-jurisdictional and minimum of 20 signals, or
  - Multi-jurisdictional and minimum length of 5 miles, or
  - Include at least 3 local agencies, 8 signals, and density of 4 signals/mile, or
  - Include full length of the corridor

ACRONYMS:

Signal Synchronization Network (SSN)
Master Plan of Arterial Highways (MPAH)
Local Signal Synchronization Plan (LSSP)
Traffic Signal Synchronization Master Plan (TSSMP)

2023 Project P Call Changes

2023 Project P Call

Changes to Guidelines – CH. 8 Project P (RTSSP)

General Updates: Call Dates, Deadlines, and Funding Amounts

Other Notable Changes Include:

- OCTA will not lead projects this call
- Scoring changes:
  - Transportation Significance
  - Project Characteristics: new method to determine points
  - Maintenance of Effort
  - Current Project Status

Call 13 Scoring Changes

Transportation Significance **Points: ~~30~~ 25**

Inclusion of offset signals within 2700'	Point
90% or above	10
50 – 89%	5
< 50%	0

AND

Vehicle Miles Traveled (VMT)

Range		Points
250+	thousand	~~20~~ 15
200 - 249	thousand	~~15~~ 10
150 - 199	thousand	~~10~~ 6
100 - 149	thousand	~~6~~ 3
0 ~~50~~ - 99	thousand	~~3~~ 1
~~0 - 49~~	~~thousand~~	~~1~~

Calculation: ADT x segment length
(Applies only to coordinated segments of project)

Economic Effectiveness **Points: 10**

Cost Benefit (Total $/MT)

Range	Points
< 3	10
3 – 5	9
6 – 8	8
9 – 11	7
12 – 14	6
15 - 17	5
18 – 20	4
21 – 23	3
24 – 26	2
27+	1

Project Characteristics **Max Points: ~~10~~ 20**

Project Feature	Point
Timing Only, No Capital	10
Adaptive Traffic & Demonstration Projects	4
[illegible]	4
[illegible]	3
[illegible]	3
[illegible]	3
[illegible]	2
Intersection/Field System Modernization	2
Minor Signal Operational Improvements	2
TMC/TOC and Motorist Information	1
New/Upgraded Detection	1

Details on upcoming slides

~~Maintenance of Effort~~ **~~Points: 5~~** **0**

MOE After Grant Period	Point
3 years	5
2 years	3
1 year	1
None	0

Current Project Status **Points: 10**

Project Status	Point
Re-timing 75% of prior ~~RTSSP and/or Traffic Light Synchronization program (TLSP)/Measure M funded~~ projects	5
Implementation within 12 months	5
Timing 75% of new eligible project	**5**

Funding Match **Points: 5**

Overall Match %	Point
50+%	5
40 - 49%	4
35 - 39%	3
30 - 34%	2
25 - 29%	1
< 25%	0

Project Scale **Points: 20**

Number of Signals on Main Corridor Coordinated by Project

Range	Points
50+	10
40 - 49	8
30 - 39	6
20 - 29	4
10 - 19	2
< 10	0

AND

Percent of Main Corridor Signals Being Retimed

Range	Points
90% or above	10
80 - 89%	8
70 - 79%	6
60 - 69%	4
50 - 59%	2
< 50%	0

Calculation: Number of signals in project divided by total signals in full corridor length.

Number of Jurisdictions **Points: 10**

Total Number of Involved Jurisdictions

Range	Points
5 or more	10
4	8
3	6
2	4
1	0

Sample Project Characteristics Scoring

Eligible Improvements	Score Based on Status	
Signal Timing (No Capital)	**Online**	**Offline**
Timing Only	50	30
Timing + Traffic Responsive (license only)	50	15
Timing + Peer-to-Peer (configuration only)	50	40
Timing + Traffic Adaptive (license only)	40	1
Signal Communication	**No Time Source**	**Time Source**
Above ground (e.g. wireless, cellular, etc.)	**50**	30
Fiber Optic underground	25	15
All other (e.g. copper, aerial fiber, GPS, etc.)	5	1
Field Elements	**None/5+ Years**	**Within 5 years**
ATC signal controller	**50**	10
Signal cabinet on existing foundation	30	10
Signal cabinet on new foundation	15	5
CCTV	30	10
Vehicle detection (ATSPM inputs + counts)	**50**	30
Vehicle detection (ATSPM inputs)	40	20
Vehicle detection + bicycle detection	30	15
Vehicle detection	30	15
Bicycle detection	30	15
Pedestrian detection (audible)	**50**	30
Pedestrian detection	30	15
Active transportation/pedestrian safety	**50**	30

	Above Ground	Fiber Optic	ATC Controller	CCTV	Vehicle Detection (ATSPM+)	Vehicle Detection (ATSPM)	Vehicle + Bicycle detection	Pedestrian Detection (audible)	*Average Score*
SIG 1	50		50			40			*46.7*
SIG 2	50	15		30	50			50	*39.0*
SIG 3		15					15	50	*26.7*
SIG 4		15			50				*32.5*
SIG 5		15	50				15	50	*32.5*
							Project Average Score =		**35.5**

Sample Project Characteristics Scoring (cont.)

Project Characteristics	**Max Points: 20**
Project Average Improvement Score Range	Points
45 – 50	20
35 – 44	15
25 – 34	10
15 – 24	5
5 – 14	2
0 – 4	1

	Above Ground	Fiber Optic	ATC Controller	CCTV	Vehicle Detection (ATSPM+)	Vehicle Detection (ATSPM)	Vehicle + Bicycle detection	Pedestrian Detection (audible)	*Average Score*
SIG 1	50		50			40			*46.7*
SIG 2	50	15		30	50			50	*39.0*
SIG 3		15					15	50	*26.7*
SIG 4		15			50				*32.5*
SIG 5		15	50				15	50	*32.5*
							Project Average Score =		**35.5**

Project Characteristics Points (20 Max) = 15 points

2023 PROJECT P CALL

- **OCTA as Lead Agency**
  - OCTA is not able to lead projects for this round. All proposed projects must be led by a local jurisdiction.
- **Re-timing of Corridor**
  - Projects that are re-timing 75% of a previously completed project or 75% of a new eligible project are eligible for 5 points.

Supplemental Application

SUPPLEMENTAL APP - COVER & CHECKLIST

Lake Forest Drive

10/20/2022
Application Deadline

Project Overview	
Length of Corridor (mi):	7.5
Number of signals:	28
Total Project Cost:	$2,537,134.00
M2 funds requested:	$2,029,707.20
Total Match:	$507,426.80
Cash Match:	*$507,226.80*
In-kind Match:	*$200.00*
Participating Agencies:	Lake Forest Laguna Hills Irvine Caltrans

Applicant Agency:	City of Lake Forest
Contact Name:	Tran Tran
Contact Number:	949-461-3485
Contact Email:	ttran@lakeforestca.gov

RTSSP Online Application – submitted through OCFundTracker	Online
a. Transportation Significance	
b. Benefic Cost Ratio	
c. Project Characteristics	
d. Project Scale	
e. Number of Jurisdictions	
f. Current Project Status	
g. Funding Over-Match	
h. Cabinet photos, equipment specifications, as-built drawings, cabinet drawings, etc.	Flashdrive
Section 1: Key Technical Information	
a. Name of Project Corridor/Grid/Route	1
b. Project Limits	1
c. Project Length	1
d. Number of Signalized Intersections Along Corridor	1
e. Participating Agencies/Traffic Forum Members	1
f. Lead Agency	1
g. Designation of the corridor to synchronize	1
h. Project Start and End Date	1
i. Previous funding	1
j. Contact Information	1
k. Signalized intersections that are part of the project	1
l. Offset signalized intersections that are part of the project	1
m. Project Map Depicting the Project Limits	1
Section 2: Regional Significance	2
Section 3: Acknowledgement of Required Tasks	3
Section 4: Funding Needs/Costs for Proposed Project by Task	**6**
a. Summary of Project Cost	6
b. Summary of Cost by Agency	6
c. Summary of Intersection Improvement Costs	7
Section 5: Detailed Local Match Commitment	10
Section 6: Project Schedule by Task	9
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B. Agency Improvement Calculations	11-12
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D. Agency Resolutions and Letters of Support	11
E. Additional Information (Optional)	13

SUPPLEMENTAL APPLICATION - SECTION 1

Auto-Fill | Input Only

a. Project **Corridor**

Aliso Creek Road Regional Traffic Signal Synchronization Program (RTSSP) Project

b. Project Limits:

from **El Toro Road** to **Moulton Parkway**

c. Project Length (*miles*):

5.0

d. Number of signalized intersections along the corridor (include all Caltrans intersections):

23 number of signals on project corridor(s) **0** number of offset signals included in this project

e. Participating agencies / Traffic Forum Members (*including applicant agency*):

☑ Aliso Viejo	☐ Cypress	☐ La Habra	☐ Los Alamitos	☐ San Juan Capistrano
☐ Anaheim	☐ Dana Point	☐ La Palma	☐ Mission Viejo	☐ Santa Ana
☐ Brea	☐ Fountain Valley	☐ Laguna Beach	☐ Newport Beach	☐ Seal Beach
☐ Buena Park	☐ Fullerton	☐ Laguna Hills	☐ Orange	☐ Stanton
☐ Caltrans	☐ Garden Grove	☑ Laguna Niguel	☐ Placentia	☐ Tustin
☐ Costa Mesa	☐ Huntington Beach	☐ Laguna Woods	☐ Rancho Santa Margarita	☐ Villa Park
☐ County of Orange	☐ Irvine	☐ Lake Forest	☐ San Clemente	☐ Westminster
				☐ Yorba Linda

f. Lead Agency

☐ **Aliso Viejo**

g. Designation of the corridor to synchronize:

☑ Signal Synchronization Network Corridor / Priority Corridor ☐ Master Plan of Arterial Highways Corridor

h. Project Start Date: **July 1, 2023** Project End Date: **June 30, 2026**

i. Select any that apply:

☐ Re-timing at least 75% of previous project ☑ Timing at least 75% of new eligible project ☐ None

j. Contact Information (Include name, title, agency, phone, email, and address)

Shaun Pelletier City Engineer & Director of Public Works City of Aliso Viejo 949-425-2533; spelletier@avcity.org 12 Journey, Suite 100, Aliso Viejo, CA 92656	Edgar Abrenica Associate Civil Engineer City of Laguna Niguel 949-362-4338; eabrenica@cityoflagunaniguel.org 30111 Crown Valley Parkway, Laguna Niguel, CA 92677

k. Signalized intersections that are part of the project:

	Main Corridor	Cross Street		Main Corridor	Cross Street
1	Kraemer Blvd	Lambert Road	41	Grand Avenue	Fairhaven Avenue
2	Kraemer Blvd	Birch Street	42	Grand Avenue	Santa Clara Avenue
3	Kraemer Blvd	Orbiter Street	43	Grand Avenue	21st Street
4	Kraemer Blvd	Birch Mall	44	Grand Avenue	17th Street
5	Kraemer Blvd	Imperial Highway (SR-90)*	45	Grand Avenue	I-5 Northbound Ramp*
6	Kraemer Blvd	Buttonwood Dr/Saturn St	46	Grand Avenue	Santa Ana Blvd/I-5 SB Ramp*
7	Kraemer Blvd	Golden Avenue	47	Grand Avenue	Fruit Street
8	Kraemer Blvd	Patrician Lane	48	Grand Avenue	6th Street/OC Register
9	Kraemer Blvd	Bastanchury Road	49	Grand Avenue	4th Street
10	Kraemer Blvd	Yorba Linda Boulevard	50	Grand Avenue	1st Street
11	Kraemer Blvd	Sheffield Street/Morse Avenue	51	Grand Avenue	Chestnut Avenue
12	Kraemer Blvd	Madison Avenue	52	Grand Avenue	McFadden Avenue
13	Kraemer Blvd	Alta Vista Street	53	Grand Avenue	Century High School
14	Kraemer Blvd	Chapman Avenue (North)	54	Grand Avenue	St. Andrew Place
15	Kraemer Blvd	Hawaii Way	55	Grand Avenue	Edinger Avenue
16	Kraemer Blvd	Crowther Avenue	56	Grand Avenue	St. Gertrude Place
17	Kraemer Blvd	Orangethorpe Avenue	57	Grand Avenue	Warner Avenue
18	Kraemer Blvd	La Jolla Street	58	Grand Avenue	Hotel Terrace Dr/Brookhollow Dr*
19	Kraemer Blvd	Miraloma Avenue	59	Grand Avenue	SR-55 SB Off-Ramp*
20	Kraemer Blvd	Coronado Street	60	Grand Avenue	Dyer Road
21	Kraemer Blvd	La Palma Avenue			
22	Kraemer Blvd	SR-91 Westbound Off-Ramp*			
23	Glassell Street	Frontera Street			
24	Glassell Street	Riverdale Avenue			
25	Glassell Street	Riverbend Pkwy/Richland Ave			
26	Glassell Street	Lincoln Avenue			
27	Glassell Street	Fletcher Avenue			
28	Glassell Street	Meats Avenue			
29	Glassell Street	Grove Avenue			

Legend	
	Anaheim
	Brea
	Orange
	Placentia
	Santa Ana
*	Caltrans

SUPPLEMENTAL APPLICATION - SECTION 4

Brea	Agency	Caltrans	Offset	Total
Number of Signals:	5	1	0	6

Auto-Fill | Input Only

Project Tasks (Brea)	Cost / Int	Total Cost	Match: Cash	Match: In-Kind
Task 1: Project Management - PI Phase	$ 1,000.00	$ 6,000.00	$ 1,200.00	
Task 2: Data Collection	$ 2,500.00	$ 15,000.00	$ 3,000.00	
Task 3: System Design and Construction	-	$ 714,380.00	$ 142,876.00	$ -
Task 4: Signal Timing Optimization and Implementation	$ 5,000.00	$ 30,000.00	$ 6,000.00	
Task 5: Project Report	$ 500.00	$ 3,000.00	$ 600.00	
Task 6: Project Management - O&M Phase	$ 750.00	$ 4,500.00	$ 900.00	
Task 7: Continuing Support	$ 1,800.00	$ 10,800.00	$ 2,160.00	
Task 8: Final Technical Memorandum	$ 250.00	$ 1,500.00	$ 300.00	

PI M2 Request:	$ 614,704.00	Total Project Cost:	$ 785,180.00	$ 157,036.00	$ -
O&M M2 Request:	$ 13,440.00	Total M2 Request:	$ 628,144.00	Total Match:	$ 157,036.00

MAX BUDGET CAP BY SIGNALS	$	450,000.00
	$	(178,144.00)
AGENCY MATCH (min 20%)	20.00%	

Means over individual budget cap

- Agency Name can be selected from drop-down menu
- Number of signals must include Caltrans regardless of cooperative agreement
- Cost/Intersection should be the same for all agencies so it will auto-populate after you fill out the first one table
- Max budget cap check
- Delete unused tables

SUPPLEMENTAL APPLICATION - SECTION 4

c. Summary of Intersection Improvement Costs

LOC.	AGENCY	PROJECT CROSS STREETS	TASK 3 IMPROVEMENT TOTALS				AGENCY MATCH		
			Design	Construction	TOTAL	Average Score	Total Agency Match	Cash	In-Kind
1	Lake Forest	Romano/Hidden Canyon	$ 1,800.00	$ 33,702.50	$ 35,502.50	30.0	$ 7,100.50	$ 7,100.50	$ -
2	Irvine	Bake Parkway	$ -	$ 10,752.50	$ 10,752.50	50.0	$ 2,150.50	$ 2,150.50	$ -
3	Laguna Hills	Santa Vittoria Road / Tesla	$ -	$ 26,565.00	$ 26,565.00	50.0	$ 5,313.00	$ 5,313.00	$ -
4	Laguna Hills	Mill Creek Drive / Scientific	$ -	$ 26,565.00	$ 26,565.00	50.0	$ 5,313.00	$ 5,313.00	$ -
5	Laguna Hills	Moulton Parkway / Irvine Center Drive	$ -	$ 26,565.00	$ 26,565.00	50.0	$ 5,313.00	$ 5,313.00	$ -
6	Laguna Hills	Del Lago Drive / Research Drive	$ -	$ 26,565.00	$ 26,565.00	50.0	$ 5,313.00	$ 5,313.00	$ -
7	Laguna Hills	I-5 SB Off-Ramp / Avenida De La Carlot	$ -	$ 2,500.00	$ 2,500.00	40.0	$ 500.00	$ 500.00	$ -
8	Lake Forest	I-5 NB Off-Ramp*	$ -	$ 2,500.00	$ 2,500.00	40.0	$ 500.00	$ 500.00	$ -
9	Lake Forest	Rockfield Blvd	$ 6,380.00	$ 96,778.00	$ 103,158.00	27.0	$ 20,631.60	$ 20,631.60	$ -
10	Lake Forest	Aspan St	$ 6,380.00	$ 96,778.00	$ 103,158.00	27.0	$ 20,631.60	$ 20,631.60	$ -
11	Lake Forest	Lake Forest Town Center	$ 6,380.00	$ 96,778.00	$ 103,158.00	27.0	$ 20,631.60	$ 20,631.60	$ -
12	Lake Forest	Muirlands Blvd	$ 6,380.00	$ 96,778.00	$ 103,158.00	27.0	$ 20,631.60	$ 20,631.60	$ -
13	Lake Forest	Jeronimo Rd	$ 6,380.00	$ 96,778.00	$ 103,158.00	27.0	$ 20,631.60	$ 20,631.60	$ -
14	Lake Forest	Toledo Way	$ 8,880.00	$ 128,653.00	$ 137,533.00	27.5	$ 27,506.60	$ 27,306.60	$ 200.00
15	Lake Forest	Serrano Road	$ 6,380.00	$ 96,778.00	$ 103,158.00	27.0	$ 20,631.60	$ 20,631.60	$ -
16	Lake Forest	Chinook Drive	$ 6,380.00	$ 96,778.00	$ 103,158.00	27.0	$ 20,631.60	$ 20,631.60	$ -
17	Lake Forest	Trabuco Road	$ 5,580.00	$ 78,988.00	$ 84,568.00	25.0	$ 16,913.60	$ 16,913.60	$ -
18	Lake Forest	Canada/Newvale	$ 5,580.00	$ 78,988.00	$ 84,568.00	25.0	$ 16,913.60	$ 16,913.60	$ -
19	Lake Forest	Pittsford Drive	$ 5,580.00	$ 78,988.00	$ 84,568.00	25.0	$ 16,913.60	$ 16,913.60	$ -
20	Lake Forest	Vintage Woods	$ 5,580.00	$ 78,988.00	$ 84,568.00	25.0	$ 16,913.60	$ 16,913.60	$ -
21	Lake Forest	Dimension Drive	$ 5,580.00	$ 78,988.00	$ 84,568.00	25.0	$ 16,913.60	$ 16,913.60	$ -
22	Lake Forest	Regency Lane	$ 5,580.00	$ 78,988.00	$ 84,568.00	25.0	$ 16,913.60	$ 16,913.60	$ -
23	Lake Forest	Vista Terrace	$ 5,580.00	$ 78,988.00	$ 84,568.00	25.0	$ 16,913.60	$ 16,913.60	$ -
24	Lake Forest	Rancho Parkway	$ 5,580.00	$ 78,988.00	$ 84,568.00	25.0	$ 16,913.60	$ 16,913.60	$ -
25	Lake Forest	SR-241 SB Off-Ramp*	$ -	$ 2,500.00	$ 2,500.00	40.0	$ 500.00	$ 500.00	$ -
26	Lake Forest	SR-241 NB On-Ramp*	$ -	$ 2,500.00	$ 2,500.00	40.0	$ 500.00	$ 500.00	$ -
27	Lake Forest	Towne Centre Drive	$ 5,580.00	$ 78,988.00	$ 84,568.00	25.0	$ 16,913.60	$ 16,913.60	$ -
28	Lake Forest	Portola Parkway	$ 5,580.00	$ 78,988.00	$ 84,568.00	25.0	$ 16,913.60	$ 16,913.60	$ -
-	Irvine	TMC Improvements	$ -	$ 10,000.00	$ 10,000.00	20.0	$ 2,000.00	$ 2,000.00	$ -
		SIGNAL IMPROVEMENT TOTAL =			$ 1,877,834.00	31.9	$ 375,566.80	$ 375,366.80	$ 200.00

- Section 4c is **NEW**
- Auto-populated based on entries from other sections
- Verify the numbers are correct

SUPPLEMENTAL APP - SECTIONS 5 & 6

Section 5:

B. In-Kind Services

i. Specific Improvements (List items and Cost):

Agency	Description	Expenditure
Select a City	N/A	
	Total Specific Improvements (i):	$0.00

ii. Staffing Commitment:

Agency	Staff Position	Type of Service to Project	No. of Hours	Fully Burdened Hourly Rate	Total*
Anaheim	Traffic Engineer	Project admin, timing review	20	$150.00	$3,000.00
	Signal technician	Timing implementation, 1-C card installation	50	$120.00	$6,000.00
	Inspector	Construction inspection and construction mgmt	[illegible]	[illegible]	[illegible]
	College Intern	Timing implementation, 1-C card installation	50	$80.00	$4,000.00
				Total for City of Anaheim:	*$15,600.00*
Santa Ana	Senior Civil Engineer	Project admin, design & timing review	30	$140.00	$4,200.00
	Signal technician	Timing implementation, construction mgmt	50	$110.00	$5,500.00
	College Intern	Timing implementation	30	$80.00	$2,400.00
				Total for City of Santa Ana:	*$12,100.00*
				Total Staffing Commitment (ii):	*$27,700.00*

Agency purchasing equipment regardless of who installs

Agency staff time for performing work, such as installing controllers

Section 6:

☐ By checking this box, the Applicant Agency, on behalf of all the participating agencies, agree to implement this project within 12 months. ***(This means the project will be ineligible for delays and timely use funds extensions. This is not applicable to projects requesting OCTA to lead.)***

Supplemental Application – Appendix Update

Appendix	2023 (Latest Version)	*2022 (Previous Version)*
A	Calculations and Estimated Points	*Appendix C*
B1	Agency Improvement Preferences	*Table I*
B2	Description of Work by Intersection	*Table II*
B3	Project Average Improvement Scores	***NEW TABLE!!!***
C	Vehicle Miles Traveled	*Appendix B*
D	Agency Resolutions and Letters of Support	*Appendix A*
E	Additional Information	*Appendix D*

SUPPLEMENTAL APPLICATION – APPENDIX A

Transportation Significance — **Points: 25**

Inclusion of offset signals within 2700'	Points
90% or above	10
50 – 89%	5
< 50%	0

AND

Vehicle Miles Traveled (VMT)

Range		Points
250+	thousand	15
200 - 249	thousand	10
150 - 199	thousand	6
100 - 149	thousand	3
0 - 99	thousand	1

Calculation: ADT x segment length
(Applies only to coordinated segments of project)

Project Scale — **Points: 20**

Number of Signals on Main Corridor Coordinated by Project

Range	Points
50+	10
40 - 49	8
30 - 39	6
20 - 29	4
10 - 19	2
< 10	0

AND

Percent of Main Corridor Signals Being Retimed

Range	Points
90% or above	10
80 - 89%	8
70 - 79%	6
60 - 69%	4
50 - 59%	2
< 50%	0

Calculation: Number of signals in project divided by total signals in full corridor length.

APPENDIX A: CALCULATIONS AND ESTIMATED POINTS

Criteria (Max Points)							Estimated Points
1. Transportation Significance (25 points)							6
Inclusion of offset signals w/in 2,700'							
# of offset signals on project / total # of offset signals:	10	/	30	=	33.3%		
					=	0	
Vehicle Miles Traveled (VMT):	182,892				=	6	
2. Economic Effectiveness (Cost Benefit Ratio): (10 points)							6
Calculation for Total Project Cost / VMT =	$2,537,134	/	182,892	=	13.87		
3. Project Characteristics: (20 points)							10
Average project improvement score					=	31.9	
4. Project Scale: (20 points)							14
# of signals along entire length of corridor:	29				=	4	
# of signals being synched / total # of corridor signals:	28	/	29	=	96.6%		
					=	10	
5. Number of Jurisdictions: (10 points)							8
4 Participating Jurisdiction(s)							
6. Current Project Status (10 points)							5
Yes, Retiming 75% of previous project					=	5	
Not Timing 75% of new eligible project					=	0	
Not Implementing within 12 months					=	0	
7. Funding Match: (5 points)							0
	$507,426.80	/	$2,537,134.00	=	20.00%		

Economic Effectiveness — **Points: 10**

Cost Benefit (Total $/MT)

Range	Points
< 3	10
3 – 5	9
6 – 8	8
9 – 11	7
12 – 14	6
15 - 17	5
18 – 20	4
21 – 23	3
24 – 26	2
27+	1

Project Characteristics — **Max Points: 20**

Project Average Improvement Score

Range	Points
45 – 50	20
35 – 44	15
25 – 34	10
15 – 24	5
5 – 14	2
0 – 4	1

Number of Jurisdictions — **Points: 10**

Total Number of Involved Jurisdictions

Range	Points
5 or more	10
4	8
3	6
2	4
1	0

Current Project Status — **Points: 10**

Project Status	Point
Re-timing 75% of previous project	5
Timing 75% of new eligible project	5
Implementation within 12 months	5

SUPPLEMENTAL APPLICATION - APPENDIX B1

Is this a timing-only project (no improvements)?
☐ Yes ☑ No

TABLE I: AGENCY IMPROVEMENT PREFERENCES

CATEGORIES	ID	ITEM DESCRIPTION	UNIT PRICE (MATERIAL + LABOR)			APPLICABLE DESIGN COST PER UNIT			VENDOR/BRAND & ADDITIONAL NOTES		
			Lake Forest	Laguna Hills	Irvine	Lake Forest	Laguna Hills	Irvine	Lake Forest	Laguna Hills	Irvine
Comm	1	Above ground (e.g. wireless, cellular, etc.)									
	2	Fiber Optic underground	$25,000			$2,500			Actelis ML 680DF; 29,000 lf of copper removal; cable testing on reel and post test; 35075 lf of 72-SMFO; 12-SMFO breakout cable at all locations; splice cabinet at all locations; patch panel at all locations; splice closure and splice through points (3 locations)		
	3	All other (e.g. copper, aerial fiber, GPS, etc.)							Actelis ML 6916E		
Field Elements	4	ATC signal controller	$6,000	$6,000	$8,500				Econolite Cobalt	Cobalt Controller w/FSK Card	2070-1C modules with the latest ASC3-2070 firmware, including central system integration; Iteris SDLC-IM
	5	Signal cabinet on existing foundation	$25,000			$2,500			TS2 Type 2 P44		
	6	Signal cabinet on new foundation									
	7	BBS/USP (attached)									
	8	BBS/UPS on existing foundation	$8,000			$800			UPS Cabinet for Existing Myers Unit w/ 4 Batteries		
	10	CCTV			$18,000			$1,800			Axis IP CCTV Camera, mounts, CAT5e cable
	13	Vehicle detection + bicycle detection									iteris SDLC-IM for intended operation with all necessary appurtenances
	14	Vehicle detection	$30,000			$3,000			Wavetronix Radar Detection		
	16	Pedestrian detection (audible)									
	17	Pedestrian detection									
	20	EVP (hybrid or GPS)									
Minor Signal Op Improve	25	Channelization									
	26	Signal phasing improvement									
TMC/TOC	27	Central System (server, licenses, workstations)									
	28	Display (video wall, VMS, etc.)									
	29	UPS for TMC									
Signal Timing Only	30	Timing Only									
	31	Timing + Traffic Responsive (license only)									
	32	Timing + Peer-to-Peer (configuration only)									
	33	Timing + Traffic Adaptive (license only)									
Caltrans	34	Caltrans Cooperative Agreement	$2,500	$2,500	$2,500						

- ***Item Description*** is pre-filled. Hide unused items.
- Include design cost where applicable.
- Fill in the ***Vendor/Brand and Additional Notes*** section with as much detail as possible.
- Don't forget SCE fees, SCE conduit, and other permitting fees.
  - These would be lumped into other item descriptions.

SUPPLEMENTAL APPLICATION - APPENDIX B1

Is this a timing-only project (no improvements)? ☐ Yes ☑ No

Auto-Fill

TABLE I: AGENCY IMPROVEMENT PREFERENCES

CATEGORIES	ID	ITEM DESCRIPTION	UNIT PRICE (MATERIAL + LABOR)				APPLICABLE DESIGN COST PER UNIT				VENDOR/BRAND & ADDITIONAL NOTES			
			Dana Point	Laguna Niguel	Mission Viejo	County of Orange	Dana Point	Laguna Niguel	Mission Viejo	County of Orange	Dana Point	Laguna Niguel	Mission Viejo	County of Orange
Comm	1	Above ground (e.g. wireless, cellular, etc.)		$1,800				$180				Sierra Wireless - Air Link RV55 Rugged LTE-A; 5G/LTE SUB-6 Rugged Surface Mount 600-6000 MHZ Series		
	2	Fiber Optic underground	$3,000	$24,227	$23,143		$300	$2,423	$2,314		Etherwan ED3575 DSL Switch	Actelis ML 684D + 2 SFPs per switch (1GB); Corning fiber; Sch 80 PVC	Cisco Catalyst IE 3200 Rugged Series (no SFPs)	
	3	All other (e.g. copper, aerial fiber, GPS, etc.)	$1,100				$110				GPS			

EXAMPLE:

$ 94,000 x 1 Conduit repair
$ 2,000 x 12 Patch panel
$ 3,000 x 15 Ethernet switch
$ 3,700 x 12 #6E pb + splice enclosure
$ 20 x 600 Remove copper + add pull tape
$ 1,500 x 30 #6 pb
$ 90 x 1,100 3" Conduit + 120-SMFO
$ 363,405 Total cost of **Fiber Optic underground** improvements
$ 363,405 / 15 intersections = **$24,227** [Cost per intersection]

- Enter Communication improvements by lump sum
- Provide specifics under Notes columns in Appendices B1 and B2

SUPPLEMENTAL APPLICATION - APPENDIX B2

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TABLE II: DESCRIPTION OF WORK BY INTERSECTION

LOCATION	IMPLEMENTING AGENCY	PROJECT CROSS STREETS	DESCRIPTION OF WORK										SIGNAL IMPROVEMENT COSTS					AGENCY MATCH			NOTES
			Fiber Optic underground	ATC signal controller	Signal cabinet on existing foundation	BBS/UPS on existing foundation	CCTV	Vehicle detection	Pedestrian detection (audible)	Pedestrian detection	Central System (server, licenses, workstations)	Caltrans Cooperative Agreement	Design	Construction	Construction Management & Inspection 15%	Contingency 10%	TOTAL	Total Agency Match 20.0%	Cash	In-Kind	
			2	4	5	8	10	14	16	17	27	34									
1	Irvine	Romano/Hidden Canyon		1			1						$ 1,800.00	$ 26,500.00	$ 3,975.00	$ 3,227.50	**$ 35,502.50**	$ 7,100.50	$ 7,100.50		2070-1C modules w/latest ASC3-2070 firmware, incl. central system integration; Iteris SDLC-IM
2	Irvine	Bake Parkway		1									$ -	$ 8,500.00	$ 1,275.00	$ 977.50	**$ 10,752.50**	$ 2,150.50	$ 2,150.50		Cobalt w/FSK card; Navigator iN2 APS w/sign & Controller assembly
3	Laguna Hills	Santa Vittoria Road / Tesla		1					1				$ -	$ 21,000.00	$ 3,150.00	$ 2,415.00	**$ 26,565.00**	$ 5,313.00	$ 5,313.00		Cobalt w/FSK card; Navigator iN2 APS w/sign & Controller assembly
4	Laguna Hills	Mill Creek Drive / Scientific		1					1				$ -	$ 21,000.00	$ 3,150.00	$ 2,415.00	**$ 26,565.00**	$ 5,313.00	$ 5,313.00		Cobalt w/FSK card; Navigator iN2 APS w/sign & Controller assembly
5	Laguna Hills	Moulton Parkway / Irvine Center Drive		1					1				$ -	$ 21,000.00	$ 3,150.00	$ 2,415.00	**$ 26,565.00**	$ 5,313.00	$ 5,313.00		Cobalt w/FSK card; Navigator iN2 APS w/sign & Controller assembly
6	Laguna Hills	Del Lago Drive / Research Drive		1					1				$ -	$ 21,000.00	$ 3,150.00	$ 2,415.00	**$ 26,565.00**	$ 5,313.00	$ 5,313.00		Cobalt w/FSK card; Navigator iN2 APS w/sign & Controller assembly
7	Laguna Hills	I-5 SB Off-Ramp / Avenida De La Carlota*										1	$ -	$ 2,500.00			**$ 2,500.00**	$ 500.00	$ 500.00		Timing only
8	Lake Forest	I-5 NB Off-Ramp*										1	$ -	$ 2,500.00			**$ 2,500.00**	$ 500.00	$ 500.00		Timing only
9	Lake Forest	Rockfield Blvd	1	1		1		1		1			$ 6,380.00	$ 76,000.00	$ 11,400.00	$ 9,378.00	**$ 103,158.00**	$ 20,631.60	$ 20,631.60		Actelis ML6916E; controller w/TIO panel & harness; UPS cab + 4 batteries for exist Myers
10	Lake Forest	Aspan St	1	1		1		1		1			$ 6,380.00	$ 76,000.00	$ 11,400.00	$ 9,378.00	**$ 103,158.00**	$ 20,631.60	$ 20,631.60		Actelis ML680DF; UPS cab + 4 batteries for exist Myers
11	Lake Forest	Lake Forest Town Center	1	1		1		1		1			$ 6,380.00	$ 76,000.00	$ 11,400.00	$ 9,378.00	**$ 103,158.00**	$ 20,631.60	$ 20,631.60		Actelis ML680DF; UPS cab + 4 batteries for exist Myers
12	Lake Forest	Muirlands Blvd	1	1		1		1		1			$ 6,380.00	$ 76,000.00	$ 11,400.00	$ 9,378.00	**$ 103,158.00**	$ 20,631.60	$ 20,631.60		Actelis ML6916E; UPS cab + 4 batteries for exist Myers
13	Lake Forest	Jeronimo Rd	1	1		1		1		1			$ 6,380.00	$ 76,000.00	$ 11,400.00	$ 9,378.00	**$ 103,158.00**	$ 20,631.60	$ 20,631.60		Actelis ML6916E; UPS cab + 4 batteries for exist Myers
14	Lake Forest	Toledo Way	1	1	1	1		1		1			$ 8,880.00	$ 101,000.00	$ 15,150.00	$ 12,503.00	**$ 137,533.00**	$ 27,506.60	$ 27,306.60	$ 200.00	Actelis ML680DF; UPS cab + 4 batteries for exist Myers; In-kind for plan
15	Lake Forest	Serrano Road	1	1		1		1		1			$ 6,380.00	$ 76,000.00	$ 11,400.00	$ 9,378.00	**$ 103,158.00**	$ 20,631.60	$ 20,631.60		Actelis ML680DF; UPS cab + 4 batteries for exist Myers
16	Lake Forest	Chinook Drive	1	1		1		1		1			$ 6,380.00	$ 76,000.00	$ 11,400.00	$ 9,378.00	**$ 103,158.00**	$ 20,631.60	$ 20,631.60		Actelis ML680DF; UPS cab + 4 batteries for exist Myers
17	Lake Forest	Trabuco Road	1					1		1			$ 5,580.00	$ 62,000.00	$ 9,300.00	$ 7,688.00	**$ 84,568.00**	$ 16,913.60	$ 16,913.60		Actelis ML6916E; controller w/TIO panel & harness; UPS cab + 4 batteries
18	Lake Forest	Canada/Newvale	1					1		1			$ 5,580.00	$ 62,000.00	$ 9,300.00	$ 7,688.00	**$ 84,568.00**	$ 16,913.60	$ 16,913.60		Actelis ML680DF; UPS cab + 4 batteries for exist Myers
19	Lake Forest	Pittsford Drive	1					1		1			$ 5,580.00	$ 62,000.00	$ 9,300.00	$ 7,688.00	**$ 84,568.00**	$ 16,913.60	$ 16,913.60		Actelis ML6916E; UPS cab + 4 batteries for exist Myers
20	Lake Forest	Vintage Woods	1					1		1			$ 5,580.00	$ 62,000.00	$ 9,300.00	$ 7,688.00	**$ 84,568.00**	$ 16,913.60	$ 16,913.60		Actelis ML680DF; UPS cab + 4 batteries for exist Myers
21	Lake Forest	Dimension Drive	1					1		1			$ 5,580.00	$ 62,000.00	$ 9,300.00	$ 7,688.00	**$ 84,568.00**	$ 16,913.60	$ 16,913.60		Actelis ML680DF; 2"C w/#10 tracer wire btw EB Adv loop pb & pb on SWC @ Lake Forest/Forest Ridge; UPS cab + 4 batteries for exist Myers
22	Lake Forest	Regency Lane	1					1		1			$ 5,580.00	$ 62,000.00	$ 9,300.00	$ 7,688.00	**$ 84,568.00**	$ 16,913.60	$ 16,913.60		Actelis ML680DF; UPS cab + 4 batteries for exist Myers
23	Lake Forest	Vista Terrace	1					1		1			$ 5,580.00	$ 62,000.00	$ 9,300.00	$ 7,688.00	**$ 84,568.00**	$ 16,913.60	$ 16,913.60		Actelis ML680DF; UPS cab + 4 batteries for exist Myers
24	Lake Forest	Rancho Parkway	1					1		1			$ 5,580.00	$ 62,000.00	$ 9,300.00	$ 7,688.00	**$ 84,568.00**	$ 16,913.60	$ 16,913.60		Actelis ML680DF; 2"C w/#10 tracer wire btw SWC pb & pb on SWC @ Lake Forest/Skate Park & EB Adv loop pb @ Lake Forest/Town Ctr; controller w/TIO panel & harness; UPS cab + 4 batteries for exist Myers
25	Lake Forest	SR-241 SB Off-Ramp*										1	$ -	$ 2,500.00			**$ 2,500.00**	$ 500.00	$ 500.00		Timing only
26	Lake Forest	SR-241 NB On-Ramp*										1	$ -	$ 2,500.00			**$ 2,500.00**	$ 500.00	$ 500.00		Timing only
27	Lake Forest	Towne Centre Drive	1					1		1			$ 5,580.00	$ 62,000.00	$ 9,300.00	$ 7,688.00	**$ 84,568.00**	$ 16,913.60	$ 16,913.60		controller w/TIO panel & harness; UPS cab + 4 batteries for exist Myers
28	Lake Forest	Portola Parkway	1					1		1			$ 5,580.00	$ 62,000.00	$ 9,300.00	$ 7,688.00	**$ 84,568.00**	$ 16,913.60	$ 16,913.60		Actelis ML6916E; UPS cab + 4 batteries for exist Myers
-	Irvine	TMC Improvements									1		$ -	$ 10,000.00			**$ 10,000.00**	$ 2,000.00	$ 2,000.00		Maxview licenses + agreement
		QUANTITY TOTAL =	**18**	**14**	**1**	**8**	**1**	**18**	**4**	**18**	**1**	**4**				**SIGNAL IMPROVEMENT TOTAL =**	**$ 1,877,834.00**	$ 375,566.80	$ 375,366.80	$ 200.00	

= Qty entered but does not have a unit price for item

Text = Implementing agency is different from owning/operating agency (e.g. owned by Caltrans, but implementation will be lead by local agency)

SUPPLEMENTAL APPLICATION - APPENDIX B3

New Table!

- Fields that require entry are highlighted with yellow
- Drop-down menu to select score
- Scores are based on status of improvement (See page 8-12 of CTFP)
- Average score of 31.9 will equate to 10 points for Project Characteristics

Project Characteristics — **Max Points: 20**

Project Average Improvement Score Range	Points
45 – 50	20
35 – 44	15
25 – 34	10
15 – 24	5
5 – 14	2
0 – 4	1

Is this a timing-only project (no improvements)?
☐ Yes ☑ No

TABLE III: PROJECT AVERAGE IMPROVEMENT SCORES

LOCATION	IMPLEMENTING AGENCY	PROJECT CROSS STREETS	DESCRIPTION OF WORK															AVERAGE IMPROVEMENT SCORE
			Above ground (e.g. wireless, cellular, etc.)	Fiber Optic underground	All other (e.g. copper, aerial fiber, GPS, etc.)	ATC signal controller	Signal cabinet on existing foundation	BBS/UPS on existing foundation	CCTV	Vehicle detection	Pedestrian detection (audible)	Pedestrian detection	Central System (server, licenses, workstations)	Timing Only	Timing + Traffic Responsive (license | Timing + Peer-to-Peer configuration only)	Timing + Traffic Adaptive (license only)	Caltrans Cooperative Agreement	
			Time Source			None/5+ Years or Within 5 Years							)+ or	Online or Offline				Y/N	
1	Irvine	Romano/Hidden Canyon				50			10										30.0
2	Irvine	Bake Parkway				50													50.0
3	Laguna Hills	Santa Vittoria Road / Tesla				50					50								50.0
4	Laguna Hills	Mill Creek Drive / Scientific				50					50								50.0
5	Laguna Hills	Moulton Parkway / Irvine Center Drive				50					50								50.0
6	Laguna Hills	Del Lago Drive / Research Drive				50					50								50.0
7	Laguna Hills	I-5 SB Off-Ramp / Avenida De La Carlota*																40	40.0
8	Lake Forest	I-5 NB Off-Ramp*																40	40.0
9	Lake Forest	Rockfield Blvd		15		50		10		30		30							27.0
10	Lake Forest	Aspan St		15		50		10		30		30							27.0
11	Lake Forest	Lake Forest Town Center		15		50		10		30		30							27.0
12	Lake Forest	Muirlands Blvd		15		50		10		30		30							27.0
13	Lake Forest	Jeronimo Rd		15		50		10		30		30							27.0
14	Lake Forest	Toledo Way		15		50	30	10		30		30							27.5
15	Lake Forest	Serrano Road		15		50		10		30		30							27.0
16	Lake Forest	Chinook Drive		15		50		10		30		30							27.0
17	Lake Forest	Trabuco Road		15						30		30							25.0
18	Lake Forest	Canada/Newvale		15						30		30							25.0
19	Lake Forest	Pittsford Drive		15						30		30							25.0
20	Lake Forest	Vintage Woods		15						30		30							25.0
21	Lake Forest	Dimension Drive		15						30		30							25.0
22	Lake Forest	Regency Lane		15						30		30							25.0
23	Lake Forest	Vista Terrace		15						30		30							25.0
24	Lake Forest	Rancho Parkway		15						30		30							25.0
25	Lake Forest	SR-241 SB Off-Ramp*																40	40.0
26	Lake Forest	SR-241 NB On-Ramp*																40	40.0
27	Lake Forest	Towne Centre Drive		15						30		30							25.0
28	Lake Forest	Portola Parkway		15						30		30							25.0
-	Irvine	TMC Improvements											20						20.0
																		AVERAGE SCORE =	31.9

REMINDERS

Supplemental Application

- Must use 2023 template – Applications that do not use the provided template **WILL NOT** be considered
- Sending a draft application for review is **HIGHLY** recommended
- A **Guide** is available on Call website to help you fill out the application

Cabinet photos

- Upload to OCFundtracker only (as **ONE** zip/pdf file); do not print and include w/application submittal

VMT

- Counts must be within 3 years of application deadline (must be newer than **10/20/2019**)

Offset signals

- Only count the ones on MPAH and within 2,700 feet of project corridor

Cost estimate/Unit price

- Use round numbers (in thousands, if possible) to avoid round-off errors

Q & A

Please use the Q&A or raise hand to ask questions

**6 to unmute / *9 to raise hand*

Application Submittal

APPLICATION SUBMITTAL

Applications are due on Thursday, October 20, 2022 by 5:00 PM PST

- ✓ Must submit an electronic application and supporting attachments in OCFundtracker: https://ocfundtracker.octa.net
- ✓ Hard Copies: One (1) **UNBOUND** copies of Application Package and Supporting Attachments
- ✓ Include electronic copy in USB drive or uploaded to OCFundtracker

Checklists and Resolution Templates are provided in Chapters 7 (Project O) and 8 (Project P) of Guidelines

- ✓ 2023 CTFP Guidelines: http://octa.net/pdf/CTFPGuidelines2023.pdf?n

Project P (RTSSP) 2023 Supplemental Application and Instructions

- ✓ http://www.octa.net/Projects-and-Programs/Plans-and-Studies/Funding-Programs/Call-for-Projects/CTFP-Calls-for-Projects/Regional-Traffic-Signal-Synchronization-Program/

REVIEW PROCESS

- Application needs to be thorough and complete
- Initial screening for missing elements
- Qualitative review identifies questions for clarification, additional documentation or corrections
- Unique issues or problems may require meeting
- Project recommendations released after consensus review (with agencies) is completed for each program

RECOMMEND: Meet and discuss complex projects with OCTA prior to submittal.

COMMON MISTAKES

Incomplete and incorrect documentation

- Not using the correct template – Make sure using the 2023 Project P Supplemental Application
- Outdated or missing traffic counts **(OCTA Traffic Flow Map is not a qualifying source)**
- Incorrect LOS or ICU calculations/back-up
- Budget information is incomplete or missing
- Operational Attributes claimed but not substantiated or are inconsistent with guideline definitions
- Leaving out planned signalized intersections
- Excluding Caltrans' intersections
- Not checking formulas and/or spell-checking

Ineligible

- ROW or construction funding requested **before** environmental reviews are complete
- ADT counts collected beyond 36 months preceding application deadline

Q & A

Please use the Q&A or raise hand to ask questions

**6 to unmute / *9 to raise hand*

CONTACTS

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Feel free to contact us if you have any questions