	ı	Project Inforn	natio	n			
1.	Project Title		Longmont Smart Signals to Schools				
2.	Project Location Provide a map, Page 1)	on as appropriate (see	End po	Start point: Click or tap here to enter text. End point: Click or tap here to enter text. OR Geographic Area: Existing signalized intersections along Pace St, 17 th Ave, Nelson Rd, Airport Rd, 3 rd Ave, 9 th Ave, Francis St, and Mountain View Ave, and Sunset Blvd.			
3.		Or (entity that will be nsible for the project)	City o	f Longmont			
	Project Conta me: Kyle Hawo one: 303-651-8	rth			Title: Traffic Engil		
5.	CDOT Right-of system, access	Concurrence and Project Support: Does this project touch t-of-Way, involve a CDOT roadway, connect to a CDOT cess RTD property, or request RTD involvement to operate oes this project directly involve other local agency partners. Lineally, involved to the local agency partners in the local agency partners. Lineally, involved to the local agency partners in the local agency partners.				a completed Peer Agency	
6	What	If this project is list MVRTP), provide t				-	ortation Plan (2050 29 staging corridor
	planning document(s) identifies this project?	Local/Regional pla	Planning Document Title: Envision Longmont Adopting agency (local agency Council, CDOT, RTD, etc.): City o Longmont Provide date of adoption by council/board/commission, if applicable: June 28, 2016				OT, RTD, etc.): City of
refe nun	ument(s) and erenced page nber if possible, provide	Please describe pu review/engagemendate:		Transportation Advisory Board and various residents submitting concerns about improving intersections for improved pedestrian safety			_
	cumentation in e supplement	Other pertinent de	etails:	plan and	•	improvements	, 2023 to create action in 2024 to reduced
7.		roject's key phases an es should correspond with the		nticipated so	hedule of phase n	nilestones.	
Phases to be Ma included:			date (based on October 2023 DRCOC approval date):			October 2023 DRCOG	
		☐ Precons	structio	n 🗵	Construction	☐ Both	
<u>F</u> (<u>REQUIRED</u> OR ALL PHASES	Intergovernmenta (Assumed process execution is NOT r	is 4-9 m	nonths; any			2/2023
		Design contract No	otice to	Proceed (N7	P) issued (if using	a consultant):	Enter Date
	Design		Design scoping meeting held with CDOT (if no consultant): FIR (Field Inspection Review):		Enter Date Enter Date		

	FOR (Final Office Review):		Enter Date	
□Environmental	Environmental contract Notice to P consultant):	Enter Date		
	Environmental scoping meeting hel	Enter Date		
☐ Right-of-Way	Initial set of ROW plans submitted t Estimated number of parcels to acc	·		
,	ROW acquisition completed:		Enter Date	
	Required clearances:		4/2024	
⊠ Construction	Project publicly advertised:		Enter Date	
□Study	Kick-off meeting held after consulta consultant):	ant NTP (or internal if no	Enter Date	
⊠Equipment Purchase (Procurement)	RFP/RFQ/RFB (bids) issued:		5/2024	
☑ Other Phase not Listed Describe: Describe	First invoice submitted to CDOT/RT	D:	8/2024	
The intent of this routes to school safety and mobil buffer zones to i hardware will prediction of PTZ of Will also allow for be done by enable and update timin local jurisdiction	8. Problem Statement: What specific subregional problem/issue will the transportation project address? The intent of this project is to upgrade existing traffic signal detection along corridors that serve as major routes to schools within the city. The new detection cameras will provide multimodal features to improve safety and mobility for non-motorized traffic and pedestrians such as dedicated pedestrian detection and buffer zones to insure intersections are clear before conflicting traffic receives a green indication. New hardware will provide speed, volume, and safety analytics for pedestrians, bicyclists, and motorized traffic. Addition of PTZ cameras will allow staff and emergency responders to evaluate incidents prior to being dispatched Will also allow for better coordination and adaptability for more efficient and safer travel times. This can be done by enabling improved coordination plans and high resolution traffic data to continuously evaluate and update timing plans to accommodate different needs throughout the day. Data can be easily shared to local jurisdictions through existing API modules. Funds will be used for equipment only and installation by existing on-call professional services to insure compliance with city standards and specifications.			
9. Identify the proj	ect's key elements . A single project i	, , ,		
Roadway		□ Safety Improvements		
 ☑ Operational Improvements ☐ General Purpose Capacity (2050 MVRTP) ☐ Managed Lanes (2050 MVRTP) ☐ Pavement Reconstruction/Rehab ☐ Bridge Replace/Reconstruct/Rehab 		Active Transportation Improvements ⊠ Bicycle Facility ⊠ Pedestrian Facility ⊠ Air Quality Improvements		
Grade Separatio ☐ Roadway	n	☐ Improvements Impacting Freight		
□Railway □Bicycle		Multimodal Mobility (i.e., accommodating a broad range of users)		
□Pedestrian		□ Complete Streets Improvements		

Regional Transit¹ ☐ Rapid Transit Capacity (2050 MVRTP)	☐ Study			
☐ Mobility Hub(s) ☐ Transit Planning Corridors ☐ Transit Facilities (Expansion/New)	☑ Other, briefly describe: Data collection for ADT counts, classifications of various types of vehicles, pedestrians, and bicycles.			
¹ For any project with transit elements, the sponsor must cost. Be sure to include RTD's concurrence in your applica	coordinate with RTD to ensure RTD agrees to the scope and ation submittal.			
· · ·	et (including any elements checked in #9 above). By DRCOG funded project or your IGA scope of work (i.e., adjacent pefits). Please keep the response to this question tailored to details of			
routes to public schools. Installation of traffic detection c	eject is for purchase of equipment and installation. Project will			
11. What is the current status of the proposed scope as a is addressed in more detail in Section E below.	defined in Question 10 above? Note that overall project readiness			
Current traffic signals are capable and are able to be	upgraded immediately with the approval of this project.			
12. Would a smaller DRCOG-allocation than requested be maintaining the original intent of the project?	e acceptable, while ☐ Yes ☒ No			
If yes, smaller meaningful limits, size, service level, ph	nases, or scopes, along with the cost, MUST be defined.			
Smaller DRCOG funding request: Click or tap here to	enter text.			
Outline the differences between the scope outlined a	above and the reduced scope: Click or tap here to enter text.			

Project Financial Information and Funding Request <u>To update the formulas below, enter your information, highlight the formulas, a</u>	(All funding amounts in \$1,000s) and press F9 or right-click and select Update Field.			
Total amount of Federal Funding Request (in \$1,000's) (Not to exceed 82.79% of the total project cost)	\$1,580	79.0% of total project cost		
Match Funds (in \$1,000's) List each funding source and contribution amount.	Contribution Amount	% Contribution to Overall Project Total		
City of Longmont	\$420	21.0%		
Click or tap here to enter text.	\$Match Amount	0.0%		
Click or tap here to enter text.	\$Match Amount	0.0%		
Click or tap here to enter text.	\$Match Amount	0.0%		

Click or tap here to enter text. Click or tap here to enter text.	\$Match Amount \$Match Amount	0.0%
Total Match (private, local, state, regional, or federal)	\$ 420	21.0%
Project Total	\$2,000	

Funding Breakdown (in \$1,000s) (by program year) ¹ (Total funding should match the Project Total from above) To update the formulas below, enter your information, highlight the formulas (or Ctrl-A), and press F9. OR close and reopen the file.						
	FY 2024 FY 2025 FY 2026 FY 2027 Total					
DRCOG Requested Funds	\$790	\$790	\$Enter Amount	\$Enter Amount	\$1,580	
CDOT or RTD Supplied Funds ²	\$Enter Amount	\$Enter Amount	\$Enter Amount	\$Enter Amount	\$ 0	
Local Funds (Funding from sources other than DRCOG, CDOT, or RTD)	\$210	\$210	\$Enter Amount	\$Enter Amount	\$ 420	
Total Funding	\$1,000	\$1,000	\$ 0	\$ 0	\$2,000	
Phase to be Initiated	Equipment Purchase (Procurement)	Equipment Purchase (Procurement)	Select Phase	Select Phase		
Notes:	 Fiscal years are October 1 through September 30 (e.g., FY 2024 is October 1, 2023 through September 30, 2024). The proposed funding plan is not guaranteed if the project is selected for funding. While DRCOG attempts to accommodate applicants' requests, final funding will be assigned at DRCOG's discretion. Funding amounts must be provided in year of expenditure dollars using a recommended 3% inflation factor. Only enter funding in this line if CDOT and/or RTD specifically give permission via concurrence letters or other written source. 					
By checking this box, the applicant's Chief Elected Official (Mayor or County Commission Chair/City or County Manager/Agency Director) has certified it allows this application to be submitted for potential DRCOG-allocated funding and will follow all local, DRCOG, state, and federal policies and regulations if funding is awarded.			pplication to			

Evaluation Questions

A. Deployment of RTO&T Initiatives in RTO&T Strategic Plan

WEIGHT

30%

Select the initiatives to be deployed or advanced by this proposed project. It is possible to select more than one initiative.

Primary initiatives	
Develop a Regional Situational Awareness platform.	\boxtimes
Develop processes to share traffic camera view and control between jurisdictions and public safety.	
Develop a Regional Performance Monitoring Data Archive platform.	\boxtimes
Develop strategies and processes to coordinate performance-based management.	\boxtimes
Deploy additional supporting transportation surveillance and control systems and infrastructure.	\boxtimes
Develop Traffic Incident Management standard operating procedures.	
Standardize and implement transit signal priority performance management and system optimization procedures.	
Secondary initiatives	
Develop evacuation and recovery plans and exercises.	
Develop processes to coordinate traveler information messaging across the region.	\boxtimes
Develop active work zone monitoring and management in the field.	\boxtimes
Deploy additional safety-focused technology applications	\boxtimes
Expand the Regional Performance Monitoring Data Archive platform.	\boxtimes
Expand the Regional Situational Awareness platform.	\boxtimes
Expand transit signal priority deployment.	
Tertiary initiatives	
Develop a Regional Multimodal Traveler Information platform.	\boxtimes
Develop a process to monitor regional parking availability, capacity and pricing.	
Develop a multimodal trip planner and reservation/ payment system.	
Develop and deploy dynamic ride-sharing.	
Develop and implement curbside management standards.	
Develop continuity of operations plans.	\boxtimes

Describe how this project will deploy, advance or achieve the selected initiatives.

This project will enable every intersection to collect travel data for vehicles, pedestrians, and bicyclists. This includes travel time, speed, origin-destination, vehicle miles driven, emissions, congestion index, and classifications. Data can be natively shared to organizations in the region. Cameras can be accessed remotely to monitor traffic operations and assess conditions prior to deploying maintenance crews or EMS response. Safety improvements can provide additional flexibility for non-vehicle traffic as dedicated detection can extend crossing times and provide reliable vulnerable road user phases to reduced conflicts with vehicles.

The Regional Transportation Operations and Technology Strategic Plan emphasizes a data management concept that requires interagency information sharing. Describe in detail how this project will share data with other regional entities.

Data can be shared directly through an existing website API that can be embedded in a webpage or can be directly downloaded in CSV format for use in other applications or databases. Type of data is being shared with current users of Acylica platform and can be readily shared via web browser.

B. Regional Impact of Proposed Project

WEIGHT

25%

Provide <u>qualitative</u> and <u>quantitative</u> responses to the following questions on the subregional impact of the proposed project. Be sure to provide all required information for each question. Quantitative data from is available from the <u>DRCOG Data Tool</u>.

1. Why is this project regionally important? Relevant quantitative data in your response is required.

Every road user should be able to transverse their city in a safer and effective manner. This includes vulnerable road users such as pedestrians, bicyclists, and youths commuting to school. In the project area there has been a total of 727 accidents involving pedestrians or bicyclists. 120 of which have involved persons under the age of 18. Providing adequate detection and data analytics is the first step to protect vulnerable roadway users. Intersections have been selected to provide safety enhancements along major routes to schools. Implementation of new detection can provide additional buffer times and timing flexibility to give extra crossing times or dedicated phasing for non-vehicles.

2. How will the proposed project address the specific transportation problem described in the **Problem Statement** (as submitted in Project Information, #8)? Relevant quantitative data in your response is required.

Longmont is similar to many municipalities in Colorado as driving behaviors and community patience has resulted in unwanted driving behaviors and it has increased accident rates throughout the state and country. Implementing safety measures and modern detection this project aims to mitigate the upward trend in accidents involving vulnerable roadway users. This can be done in a multidirectional approach through reducing vehicle user frustrations by experiencing unnecessary stops, but also providing additional flexibility to timing plans for protected or advanced phases for pedestrians or bicyclists.

3. Does the proposed project benefit multiple municipalities and/or subregions? If yes, which ones and how? Also describe any funding partnerships (other subregions, regional agencies, municipalities, private, etc.) established in association with this project.

This project benefits multiple departments within Longmont. Such as Traffic Engineering and Police Department. Additionally this project can interconnect with surrounding areas to provide roadway use data and origin-destination data to coordinate public transit or other programs that provide service for non-vehicle motorists.

4. Disproportionately Impacted and Environmental Justice Communities

<u>This data is available in the DRCOG Data Tool</u>. Completing the below table and referencing <u>relevant</u> quantitative data in your response is <u>required</u>.

To update the formulas below, enter your information, highlight the formulas (or Ctrl-A), and press F9. OR close and reopen the file.						
<u> apauce j</u>	DI & EJ Population Groups Number within ½ mile % of Total Regional %					
	a. Total population	113155	-	-		
Use 2015-2019	b. Total households	44618	-	-		
American	c. Individuals with low-income	22697	20%	20%		
Community	d. Individuals of color	33182	29%	33%		
Survey Data	e. Adults age 60 and over	26687	24%	13%		
	f. Youth under 18	24278	21%	16%		
(Use a 0.5 mile buffer distance)	g. Individuals with limited English proficiency	5711	5%	3%		
[Equity data tab]	h. Individuals with a disability	11524	10%	9%		
	i. Households that are housing cost-burdened	13718	31%	32%		
	j. Households without a motor vehicle	1864	4%	5%		
For Lines c. – i. use definitions in the <u>DRCOG Title VI Implementation Plan</u> . For Line j., as defined in C.R.S. 24-38.5-						
302(3)(b)(I): "'cost-burdened' means a household that spends more than thirty percent of its income on housing."						

Describe how this project will improve access and mobility for each of the applicable disproportionately impacted and environmental justice population groups identified in the table above, *including the* <u>required</u> <u>quantitative</u> <u>analysis:</u>

Current signal systems only operate for vehicles and are only actuated for pedestrian movements via a pedestrian push button. Upgrading to modern detection will provide additional options for non-vehicle traffic to transverse the city. Providing enhanced service by providing buffer times for slower moving persons eliminates the frequent events of vulnerable roadway users being exposed to oncoming traffic due to the signal cycling for oncoming traffic. For distracted motorists this can cause fatal results for non-vehicle traffic.

- **5.** How will this project move the subregion toward achieving the shared <u>regional transportation outcomes</u> established in <u>Metro Vision</u> in terms of...
 - Land Use, community, urban development, housing, employment? (Improve the diversity and livability of communities. Contain urban development in locations designated for urban growth and services. Increase housing and employment in urban centers. Diversify the region's housing stock. Improve the region's competitive position.)
 - o Enhancements to vehicle detection would enable city staff to create a safe and predictable operation of traffic patterns. Currently the detection works as an actuated system that does not provide safety checks for users within intersections and will send conflicting traffic movements without question. Providing additional safety features encourages alternative multimodal travel. With new high density developments planned throughout the city. This would be an opportune time to alter the culture of movement within the city.
 - Multimodal transportation, safety, reliability, air quality? (Improve and expand the region's multimodal transportation system, services, and connections. Operate, manage, and maintain a safe and reliable transportation system. Improve air quality and reduce greenhouse gas emissions. Reduce the risk of hazards and their impact.)
 - Creating a smart and flexible roadway network is essential for optimized movements
 throughout the city. Dedicated phases and advanced detection for all modes of transportation
 enable optimize of connected corridors. Roadways can be continuously monitored and
 improved versus waiting for evaluation periods. This will provide a better level of service
 throughout the day as well as into the future.
 - Connection/accessibility to particular locations supporting healthy and active choices? (Connect people to natural resource and recreational areas. Increase access to amenities that support healthy, active choices. Improve transportation connections to health care facilities and service providers. Improve access to opportunity.)
 - This project targets school facilities primarily to provide safe and predictable routes to schools.
 City facilities and parks are frequently located near school areas. Providing better access to schools also provides safer access and additional options to access parks, public facilities, and urban centers.

6.	Items marked with an asterisk (*) below are available in the D	RCOG Data Too	<u>l</u> .				
	 Is there a DRCOG designated urban center within ½ mile of the project limits?* 						
	Street AC, SH66 Mixed Use Corridor	zongmone, i wi	The Carlo Fractivity				
	 Does the project connect two or more urban centers? 	*					
			in Dooles Astivity	Contor North			
		or congmont, Iw	in Peaks Activity	center, North			
	Main Street AC, SH66 Mixed Use Corridor						
	• Is there a transit stop or station within ½ mile of the p	roject limits?*					
	Bus stop: $oxtimes$ Yes $oxtimes$ No If yes, how many:133						
	Rail station: \square Yes $\ oxtimes$ No $\ $ If yes, how many: $\ $ Click or $\ $ t	ap here to ente	r text.				
	 Is the project in a locally-defined priority growth and 	development ar	ea and/or an are	a with zoning that			
	supports compact, mixed-use development patterns a	and a variety of	housing options?)			
	☐ Yes ☒ No						
	If yes, provide a link to the relevant planning docu	ıment:					
	If yes, provide how the area is defined in the relev		cument:				
	Provide households and employment data*						
	[Population and Employment tab]	2020	2050				
	Jobs within ½ mile	49,217	62,445				
	Households within ½ mile	37,376	48,825				
	Describe how this project will improve transportation options	in and between	key geographic	areas including			
	analysis: This project provides connections to 3 major urban centers are and sidewalks along the roadway.	d promotes bet	ter use of the ex	isting bike lanes			
7.	Describe how this project will improve access and connection destinations. In your answer, define the key destination(s) and and/or connectivity. Providing safer and multimodal focused infrastructure will end	d clearly explain	how the project	improves access			
	The primary objective of this project is to create safer routes to school which benefits the younger population.						
	The second objective is to provide safety improvements for multimodal travel to city centers, which this project						
	connects 4 urban centers within the city.		, , , , , , , , , , , , , , , , , , , ,				
8.	Congestion Mitigation Process Mobility Score						
	Completing the below table and referencing <u>relevant</u> quantitative data in your response is <u>required</u> . In the DRCOG						
	Data Tool, use a 0.02 mile buffer distance.						
	Provide congestion mobility parameters*	2021					
	[Congestion Mobility Score tab]						
	Sum: length-weighted score	148.73					
	Sum: miles Congestion Mobility Score	39.66 13.59					
	(The Congestion Mobility Score will automatically calculate based on values		not undated select:	the box and click F91			
	The samples of the same series will determine the same and the same series of the same se	checked if this has	apaatea, scient	Jon and chek i J			

C. Metro Vision Regional Transportation Plan Priorities

WEIGHT

25%

- Qualitative and quantitative responses are REQUIRED for the following items on how the proposed project contributes to the project and program investment priorities in the adopted 2050 Metro Vision Regional Transportation Plan. To be considered for full points, you must fully answer all parts of the question, including incorporating quantitative data into your answer. (see scoring section for details). Quantitative data from is available from the DRCOG Data Tool.
- Checkboxes and data tables help to provide context and guide responses, but do not account for the full range of
 potential improvements and are not directly scored, but are required to be completed.
- Not all proposed projects will necessarily be able to answer all questions, however it is in the applicant's interest to address as many priority areas as possible.

Multimodal Mobility

Provide improved travel options for all modes.

(drawn from 2050 MVRTP priorities; federal travel time reliability, infrastructure condition, & transit asset management performance measures; & Metro Vision objective 4)

Examples of Project Elements: combinations of improvements that support options for a broad range of users, such as complete streets improvements, or an interchange project that incorporates transit and freight improvements, etc.

	streets improvements, or an interchange project that incorporates transit and freight improvements, etc.
•	What modes will project improvements directly address?
•	List the elements of this project which will address the above modes (i.e., sidewalk, shared use path, bus stop
	improvements, new general purpose or managed lanes, etc.): Improvements between shared use path,
	sidewalks, and bike lanes provide improved safety interaction at intersections where majority of accidents occur.
•	Will the completed project be a complete street as described in the <u>Regional Complete Streets Toolkit</u> ? <u>Complete</u>
	Streets Typology is available in the DRCOG Data Tool.
	\boxtimes Yes \square No If yes, describe how it implements the Toolkit's strategies in your response. Streets are currently
	defined as neighborhood connector streets.
•	Does this project improve travel time reliability and reduce delay?
	⊠ Yes □ No
•	Does this project improve asset management of roadway infrastructure, active transportation facilities, and/or
	transit facilities or vehicle fleets?
	☐ Yes ☒ No
•	Does this project implement resilient infrastructure that helps the subregion mitigate natural and/or human-
	made hazards?
	oxtimes Yes $oxtimes$ No

Question: Describe how this project will help increase mobility choices for people, goods, and/or services. Please include quantitative information, including any items referenced above, in your response. *Note that the proposed roadway operational improvements must be primarily on the DRCOG <u>Regional Roadway System</u> and/or <u>Regional Managed Lanes System</u>.*

29 of the 39 signals are currently on the DRCOG regional roadway network or directly adjacent to signals on the roadway network. 9 of off network signals are located on 9th Ave. 9th Ave is classified as a minor arterial in the city and is 1 of 4 east-west corridors that connects Airport Rd to County Line Rd. 9th Ave and Mountain View Dr are the top 4 intersections that experience the most pedestrian and bicycle crashes. 9th Ave has experienced 31 pedestrian or bicycle crashes between 2017-2021. Mountain View Ave experiences the 5th most incidents at 19 within the same time period.

Question: Describe how this project will help improve asset reliability and availability. Please include quantitative information in your response (for example, reduce mean time to repair and increase mean time between failures).

Connection to updated equipment is able to communicate to existing ATSPM system. The advantage to this new system is instant communications and error detection of hardware. In the event of inadequate detection or hardware failure, an alert can be triggered to send SMS messages and emails to the appropriate staff for a proactive approach to repairing city facilities. This can save the 30 minuet requirement for staff response to traffic signal issues to a faction of that time or mitigate it completely.

Question: Describe how this project will reduce delays and improve travel time reliability. Please include quantitative information in your response (for example, vehicle-hours traveled and travel time index).

Current city data does not provide an accurate representation of travel times or travel time as existing data currently has to be subcontracted to a consulting firm. The data provided only shows on average 10 travel runs at a particular time of day and at that point in traffic. The data that would be provided by the detection system would inform city staff of travel times and delays up to 5 minutes of data resolution. Timing plans can be adjusted more frequently and impact City Budgets as funds do not need to be allocated for additional consultants. Improvements and on-going monitoring can be evaluated by city staff. Metrics such as vehicle-miles driven, congestion index, travel times, speed, volume, vehicle classification, bicycle counts, pedestrian counts, and origin-destination are natively integrated with detection upgrades. This will create a continuous monitoring network to proactively maintain or improve travel times.

Improve air quality and reduce greenhouse gas emissions.

Air Quality

(drawn from 2050 MVRTP priorities; state greenhouse gas rulemaking; federal congestion & emissions reduction performance measures; Metro Vision objectives 2, 3, & 6a)

Examples of Project Elements: active transportation, transit, or TDM elements; vehicle operational improvements; electric vehicle supportive infrastructure; etc.

• Does this project reduce congestion?

 \boxtimes Yes \square No

Does this project reduce vehicle miles traveled (VMT)?

⊠ Yes □ No

Does this project reduce single-occupant vehicle (SOV) travel?

☐ Yes ⊠ No

Emissions Reduced	СО	NOx	VOCs	PM 10	CO₂e
(kg/day)	6.819	.367	.255	.092	749.743

Use the <u>FHWA CMAQ Calculators</u> or a similar reasonable methodology to determine emissions reduced. Base your calculations on the year of opening. Please attach a screenshot of your work (such as the FHWA calculator showing the inputs and outputs) as part of your submittal packet.

Note: if not using the FHWA Calculators, please describe your methodology and sources in your narrative below.

Question: Describe how this project helps reduce congestion and air pollutants, including but not limited to carbon monoxide, ground-level ozone precursors, particulate matter, and greenhouse gas emissions. Please include quantitative information, including any items referenced above, in your response.

Upgraded detection provides enhanced flexibility to continually monitor traffic flows and adjust cycle times, force offs, and extensions for all modes of transportation. This would result in reduced unnecessary stops, prolonged idle times, and buffer safety features for vulnerable road users. Upgraded detection also supplies vehicle emission data, stop delay, and congestion index information at all times. Timing plans and zone detection can be altered and evaluated to insure system does not become degraded over time or is affect by timing plan changes.

Regional Transit

Expand and improve the subregion's transit network.

(drawn from 2050 MVRTP priorities, Coordinated Transit Plan, RTD's Regional Bus Rapid Transit Feasibility Study) Examples of Project Elements: transit lanes, station improvements, etc.

Note: For any project with transit elements, the sponsor must coordinate with RTD to ensure RTD agrees to the scope and cost. Be sure to include RTD's concurrence in your application submittal.

	mediate NTD 3 content ence in your application submittain
	Items marked with an asterisk (*) below are available in the DRCOG Data Tool.
•	Does this project implement a portion of the regional bus rapid transit (BRT) network (as defined in the <u>2050</u> MVRTP)?*
	☐ Yes ☒ No If yes, which specific corridor will this project focus on: Click or tap here to enter text.
•	Does this project involve a regional transit planning corridor (as defined in the 2050 MVRTP)?*
	oxtimes Yes $oxtimes$ No If yes, which specific corridor will this project focus on: Click or tap here to enter text.
•	Does this project implement a mobility hub (as defined in the $\underline{2050~\text{MVRTP}}$)? \square Yes \boxtimes No
•	Does this project improve connections between transit and other modes?
	$oxtimes$ Yes \oxtimes No \oxtimes If yes, please describe in your response. Creates safer connections to bus stops.
)	Does this project improve transit travel time reliability?
	\square Yes \boxtimes No If yes, please describe in your response.
•	Does this project add and/or improve transit access to or within a DRCOG-defined urban center?* \square Yes \square No
n t nf	restion: Describe how this project improves connections to or expands the subregion's transit system, as outlined the <u>2050 MVRTP</u> . Also describe how this project improves transit travel time reliability. Please include quantitative ormation, including any items referenced above, in your response. <i>Note that rapid transit improvements must be the <u>Regional Rapid Transit System.</u></i>
	ersection improvements for safer multimodal travel creates safer routes to bus stops and will encourage more use multimodal options and promote rapid transit for further destination options.

Safety

Increase the safety for all users of the transportation system.

(drawn from 2050 MVRTP priorities, Taking Action on Regional Vision Zero, CDOT Strategic Transportation Safety Plan, & federal safety performance measures)

Examples of Project Elements: bike/pedestrian crossing improvements, vehicle crash countermeasures, traffic calming, etc.

Items marked with an asterisk (*) below are available in the DRCOG Data Tool.

Other: Non-Serious Injury and Property Damage Only crashes

ιιC	ins marked with an asterisk () below are available in the birch	<u> 30 Data 1001</u> .			
•	Does this project address a location on the <u>DRCOG High-Injury Network or Critical Corridors</u> or corridors defined in a local Vision Zero or equivalent safety plan?* ⊠ Yes □ No				
•	Does this project implement a safety countermeasure listed in \boxtimes Yes $\ \square$ No	n the <u>countermea</u>	asure glossary?		
•	Will this project result in a reduction of average roadway clea secondary incidents? \boxtimes Yes \square No	rance time and ir	ncident clearance time and/or		
•	Will this project result in a reduction of first responder struck \Box Yes $\ \boxtimes$ No	-bys?			
	Provide the current number of crashes involving motor vehicles, bicyclists (using the 2016-2020 period – in the DRCOG Data Tool, use a 0.02 mile buffer dist [Crash Severity 2016-2020 tab] NOTE: if constructing a new facility, report crashes along closest existing alternativ	tance)	Sponsor must use industry accepted crash modification factors (CMF) or crash reduction factor (CRF) practices (e.g., CMF		
	Fatal crashes	19	Clearinghouse, NCHRP Report 617, or		
	Serious Injury crashes	244	<u>DiExSys</u> methodology).		
	Other: Non-Serious Injury and Property Damage Only crashes	5239			
	Estimated reduction in crashes applicable to the project scope (per the five-year period used above)		Provide the methodology and sources below:		
	Fatal crashes reduced	15	Reduction of broadside and red		
	Serious Injury crashes reduced	150	Reduction of broadside and red		

Question: Describe how this project will implement safety improvements (roadway, active transportation facility, etc.), particularly improvements in line with the recommendations in <u>Taking Action on Regional Vision Zero</u>. Please include quantitative information, including any items referenced above, in your response. *Note that any improvements on roadways must be primarily on the DRCOG Regional Roadway System*.

1000

light related accidents

The project will be able to incorporate signal improvements to add buffer times for red clearing extensions, crosswalk extensions, and red hold phases for pedestrian still in the crosswalk. Additional detection will provide surety that the signal will service pedestrian and bicycle moments as actuated movements can often fail and cannot passively detect non-vehicles.

Question: Describe how this project will reduce average incident duration, secondary incidents and first responder struck-bys. Please include quantitative information in your response. A "responder struck-by" incident is a collision between a motor vehicle in transit and a responder working a roadway incident. The responder may be a nonmotorist, an occupant of a stopped response vehicle or an unoccupied response vehicle.

By reducing the number of incidents it frees up EMS responders for other calls and puts less stress on their current staffing requirements.

Freight

Maintain efficient movement of goods within and beyond the subregion.

(drawn from 2050 MVRTP priorities; Regional Multimodal Freight Plan; Colorado Freight Plan, federal freight reliability performance measure; Metro Vision objective 14)

	Examples of Project Elements: bridge improvements, improved turning radii, increased roadway capacity, etc.
lte	ms marked with an asterisk (*) below are available in the DRCOG Data Tool.
•	Is this project located in or impact access to a Freight Focus Area?*
	☐ Yes ☒ No If yes, please provide the name: Click or tap here to enter text.
•	If this project is located in a Freight Focus Area does it address the relevant Needs and Issues identified in the Plan
	(see text located within each Focus Area)?
	\square Yes \boxtimes No If yes, please describe in your response below.
•	Is the project located on the <u>Tier 1 or Tier 2 Regional Highway Freight Vision Network</u> ?*
	⊠ Yes □ No
	Check any items from the <u>Inventory of Current Needs</u> which this project will address:
	☐ Truck Crash Location ☐ Rail Crossing Safety (eligible locations)
	oxtimes Truck Delay $oxtimes$ Truck Reliability $oxtimes$ Highway Bottleneck
	☐ Low-Clearance or Weight-Restricted Bridge
	Please provide the location(s) being addressed: Click or tap here to enter text.
	Does this project include any innovative or non-traditional freight supportive elements (i.e., curb management
	strategies, cargo bike supportive infrastructure, etc.)?
	\square Yes \boxtimes No If yes, please describe in your response below.
im ite	estion: Describe how this project will improve the efficient movement of goods. In your response, identify those provements identified in the Regional Multimodal Freight Plan, include quantitative information, and include any ms referenced above. Note that any improvements on roadways must be primarily on the DRCOG Regional adway System.
typ	vanced detection and vehicle classification can improve movements of goods as the ability to detect different ses of vehicles can provide flexibility for signals to insure freight movement or safe stopping distances for large cks.

Active Transportation

Expand and enhance active transportation travel options.

(drawn from 2050 MVRTP priorities; Denver Regional Active Transportation Plan; & Metro Vision objectives 10 & 13) Examples of Project Elements: shared use paths, sidewalks, regional trails, grade separations, etc. asterisk (*) below are available in the DRCOG Data Tool.

Does this project close a gap or extend a facility on a Regional Active Transportation Corridor or locally-defined priority corridor?* □ Yes □ No □ Does this project improve pedestrian accessibility and connectivity in a pedestrian focus area?* □ Yes □ No □ Does this project improve active transportation choices in a short trip opportunity zone?* □ Yes □ No □ Does this project include a high-comfort bikeway (like a sidepath, shared-use path, separated bike lane, bicycle boulevard)? □ Yes □ No If yes, please describe in your response. Dedicated bike lanes.						
Bic	ycle Use					
	E: if constructing a new facility, report bike usage along closest existing alternative route	(4) and make 50, 00 dec	a and a same that the			
1.	o update the formulas below, enter your information, highlight the formulas (or Ctrl Current Average Single Weekday Bicyclists:	-A), and press F9. OK close	<u>e and reopen the file.</u> NA			
٠.		Year	2050			
	Bicycle Use Calculations	of Opening	Weekday Estimate			
2.	Enter estimated additional average weekday one-way bicycle trips on the facility after project is completed.	NA	NA			
3.	Enter number of the bicycle trips (in #2 above) that will be diverting from a different bicycling route. (Example: {#2 X 50%} or other percent, if justified on line 10 below)	NA	NA			
4.	= Initial number of new bicycle trips from project (#2 – #3)	0	0			
5.	Enter number of the new trips produced (from #4 above) that are replacing a trip made by another non-SOV mode (bus, carpool, vanpool, walking, etc.). (Example: {#4 X 30%} (or other percent, if justified on line 10 below)	NA	NA			
6.	= Number of SOV trips reduced per day (#4 - #5)	0.00	0.00			
7.	Enter the value of {#6 x 2 miles} . (= the VMT reduced per day) (Values other than 2 miles must be justified by sponsor on line 10 below)	NA	NA			
8.	= Number of pounds GHG emissions reduced (#7 x 0.95 lbs.)	0.00	0.00			
	 9. If values would be distinctly greater for weekends, describe the magnitude of difference: Click or tap here to enter text. 10. If different values other than the suggested are used, please explain here: 					
	Click or tap here to enter text.					
NOT	destrian Use TE: if constructing a new facility, report pedestrian usage along closest existing alternative route to update the formulas below, enter your information, highlight the formulas (or Ctrl	-A), and press F9. OR close	e and reopen the file.			
1.	Current Average Single Weekday Pedestrians (including users of non-pedaled		NA			
	devices such as scooters and wheelchairs):	Year	2050			
	Pedestrian Use Calculations	of Opening	Weekday Estimate			
2.	Enter estimated additional average weekday pedestrian one-way trips on the facility after project is completed	NA	NA			
3.	Enter number of the new pedestrian trips (in #2 above) that will be diverting from a different walking route (Example: {#2 X 50%} or other percent, if justified on line 10 below)	NA	NA			
4.	= Number of new trips from project (#2 – #3)	0	0			
5.	Enter number of the new trips produced (from #4 above) that are replacing a trip made by another non-SOV mode (bus, carpool, vanpool, bike, etc.). (Example: {#4 X 30%} or other percent, if justified on line 10 below)	NA	NA			
6.	= Number of SOV trips reduced per day (#4 - #5)	0.00	0.00			
7.	Enter the value of {#6 x .4 miles} . (= the VMT reduced per day) (Values other than .4 miles must be justified by sponsor on line 10 below)	NA	NA			

8. = Number of pounds GHG emissions reduced (#7 x 0.95 lbs.) 0.00 0.00

9. If values would be distinctly greater for weekends, describe the magnitude of difference:

Click or tap here to enter text.

10. If different values other than the suggested are used, please explain here: Click or tap here to enter text.

Question: Describe how this project helps expand the active transportation network, closes gaps, improves comfort, and/or improves connections to key destinations, particularly improvements in line with the recommendations in the <u>Denver Regional Active Transportation Plan</u>. Please include quantitative information, including any items referenced above, in your response.

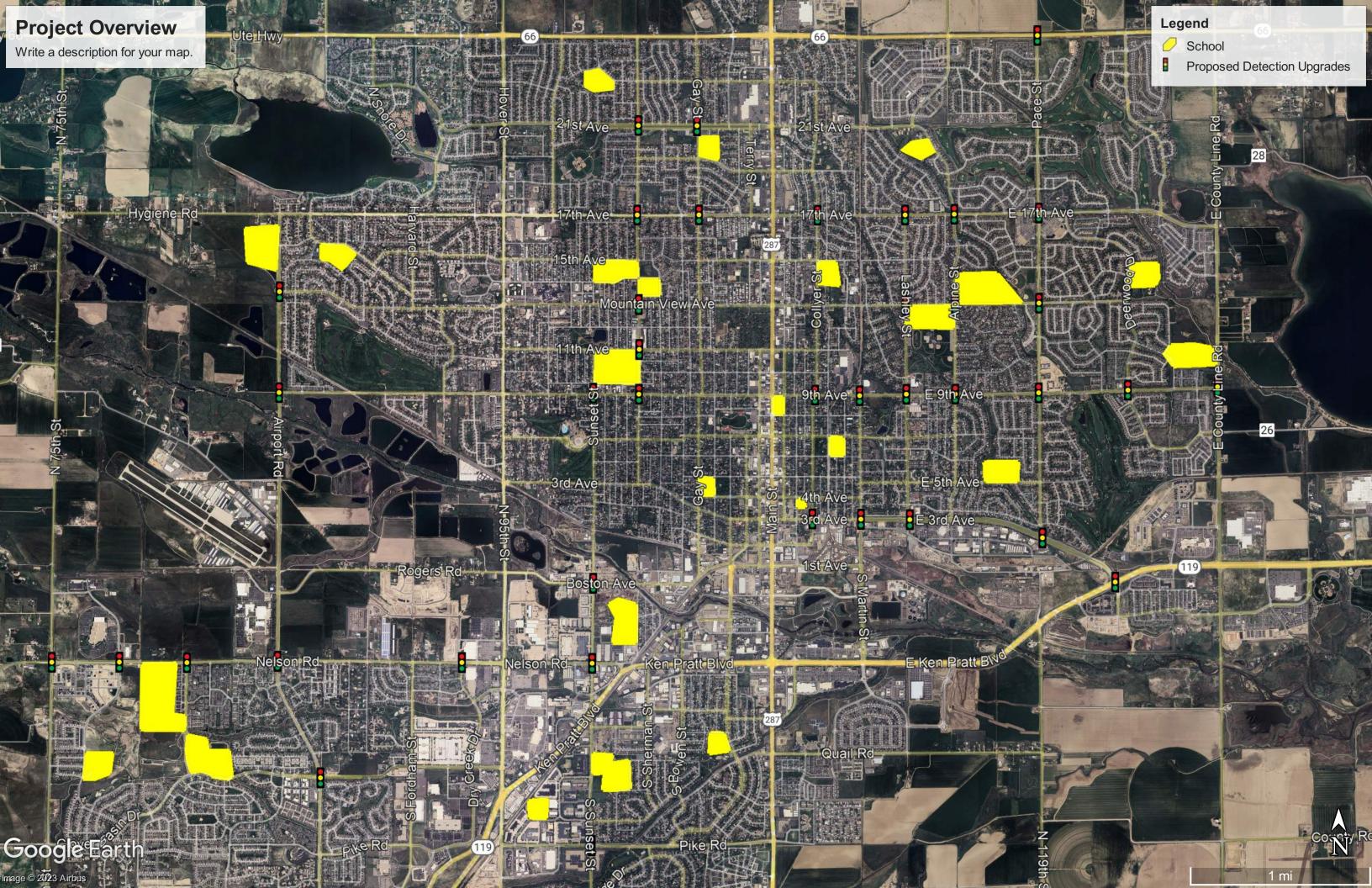
Project would provide pedestrian and bicyclist data for upgraded corridor to evaluate transit and environmental improvements in an accurate manner without conducting an official study period.

D.	Financial Leveraging			WEIGHT	5%			
	What percent of outside funding sources (non-federal funds) does this project have?	Enter score:	36%+ outside fund 31 - 35.9%		4			
	(Match percentage will automatically calculate based on values entered in the Funding Request table. If this has not updated, select the box to the right and click F9.)	21.0%	26 - 30.9% 21 - 25.9% 17.21 - 20.9%*		2			
	[*includes 100% eligible projects with no match]		17.21%		0			
Ε.	Project Readiness			WEIGHT	15%			
	Provide responses to the following items to demonst projects that have a higher likelihood to move forward delay.				~			
Suk	section 1. Avoiding Pitfalls and Roadblocks							
a.	Has a licensed engineer (CDOT, consultant, local again have on utilities, railroads, ROW, historic and environment been mitigated as much as possible to date before	onmental resour	·					
	\boxtimes Yes \square No \square N/A (for projects which do not require engineering services) If yes, please type in the engineer's name below which certifies their review and that impacts have been evaluated and mitigated as much as possible before your application is submitted:							
	Kyle Haworth, PE							
	Please describe the status to date on each, including activities taken to date: • Utilities: Known • Railroad: Known • Right-of-Way: Known • Environmental/Historic: Known • Other: Click or tap here to enter text.	; 1) anticipated/l	known pitfalls/roadbloc	ks, and 2)	mitigation			
b.	Have additional project risks been identified?							
	⊠ Yes □ No □ N/A							
	If yes, please provide a brief description of the known risks and planned mitigation activities.							
	Project is equipment only procurement for existing city facilities. No additional construction is needed as there will be no disturbance to surrounding areas.							
c.	Is this application for a single project phase only (i.e., design, environmental, ROW acquisition, construction only, study, equipment purchase, etc.)?							
	⊠ Yes □ No							
	If yes, are the other prerequisite phases complete?	☐ Yes ⊠ No	□ N/A					
d.	Will this project seek a Finding in the Public Interest	t as part of equip	oment procurement?					
	⊠ Yes □ No							
	If yes, please provide an explanation of the need for products trade names.	a Finding in the	Public Interest. Do not	reference	specific			

	Intersections of HWY 66 & Pace and SH 119 & 3 rd Ave would require FIPI documentation as equipment for city traffic signals is standardized for particular detection equipment for ease of maintenance and knowledge reasons.
e.	Has all required ROW been identified? $\ oxtimes$ Yes $\ oxtimes$ No $\ oxtimes$ N/A
	Has all required ROW already been acquired and cleared by CDOT? $\ \Box$ Yes $\ \Box$ No $\ oxtimes$ N/A
	Is existing equipment within ROW? $\ oxtimes$ Yes $\ oxtimes$ No $\ oxtimes$ N/A
	Will subsurface utility engineering be a factor in this project? $\ \square$ Yes $\ \boxtimes$ No
	Has subsurface utility engineering been accounted for in the project scoping, phasing and estimate? \Box Yes \Box No \boxtimes N/A
f.	Based on the current status provided in Project Information, question 11, do you foresee being able to execute your IGA by October 1 of your first year of funding (or if requesting first year funding, beginning discussions on your IGA as soon as possible), so you can begin your project on time?
	⊠ Yes □ No
	Does your agency have the appropriate staff available to work on this project? $\ oxtimes$ Yes $\ oxtimes$ No
	If yes, are they knowledgeable with the federal-aid process? $\ oxinveq$ Yes $\ oxinveq$ No $\ oxinveq$ N/A
g.	Have other stakeholders in your project been identified and involved in project development?
	☐ Yes ☒ No ☐ N/A If yes, who are the stakeholders? Click or tap here to enter text.
	Please provide any additional details on any of the items in Subsection 1, if applicable. Click or tap here to enter text.
Sub	section 2. Local Match Availability
a.	Is all the local match identified in your application currently available and not contingent on any additional decisions, and if a partnering agency is also committing match, do you have a commitment letter?
b.	
	☐ Yes ☒ No Please describe: Project is dependent of additional funding. Upon approval of grant, the funds would be readily available.
Sub	section 3. Systems Engineering Analysis Documentation
pro	tems Engineering Analysis (SEA) is a federally required process for deployment of transportation technology jects using funds from the Highway Trust Fund. CDOT established and administers a formal <u>SEA process</u> for asportation technology projects in the state, including local agency projects.
	ase complete at least the first seven sections of the required <u>SEA-Local Agency Template</u> . Submit the completed m with this application.

Submit completed applications to jluor@drcog.org no later than 5pm on July 7, 2023.

Prior to submitting, press Ctrl+A to select all, then press F9 to update all formulas. You can then print to PDF.



COLORADO DEPARTMENT OF TRANSPORTATION

Project Cost Estimate \$2,000,000

Completed by: FY 2025

Project No:

Date of Estimate: July 7th 2023

Estimated Date of Advertisement: Jun-24

Right of Way	\$ -	
Utilities	\$ -	-
Design	\$ -	-
Environmental	\$ -	
Miscellaneous	\$ -	
Construction	\$ 2,000,000	

TOTAL PROJECT COST ESTIMATE \$ 2,000,000
--

Note: Please view the information in the specific tab below for details on the cost estimate for each area of the project. Fill out the PCE-Total tab and any phase tab that you are requesting reimbursement for. You can change personnel titles, add personnel and adjust the wages for anticipated wage rates.

COLORADO DEPARTMENT OF TRANSPORTATION

Project Cost Estimate

Completed by:

Project No:

Date of Estimate:

Estimated Date of Advertisement:

<u>Construction</u>			
Personnel Classification	Est. Hours	Wage	Total
Prin/Non-President		\$61.10	\$0
Project Manager		\$46.37	\$0
Senior Engineer		\$45.98	\$0
Project Engineer		\$36.64	\$0
Eng. Intern. II		\$24.42	\$0
Planner		\$44.87	\$0
			\$0
Inflation (use 3% in this examp	le):	3.00%	\$0
		SUBTOTAL	\$0
Multiplier (including Fixed Fee)		2.85	\$0
ODC (0.5 - 1.5%)		1.00%	\$0
		SUBTOTAL	\$0
ROR (5-10%)		5.00%	\$0

		SU	IBTOTAL	\$0
ESTIMATED CONSTRUCTION BID ITEMS				\$2,000,000
Video Detection Cameras w/ Incidentals	39	\$	40,000	\$1,560,000
PTZ Cameras	39	\$	7,000	\$273,000
CE AND INDIRECTS		8.35%		\$167,000
SUBTO	TAL (CONS	STR	UCTION)	\$2,000,000

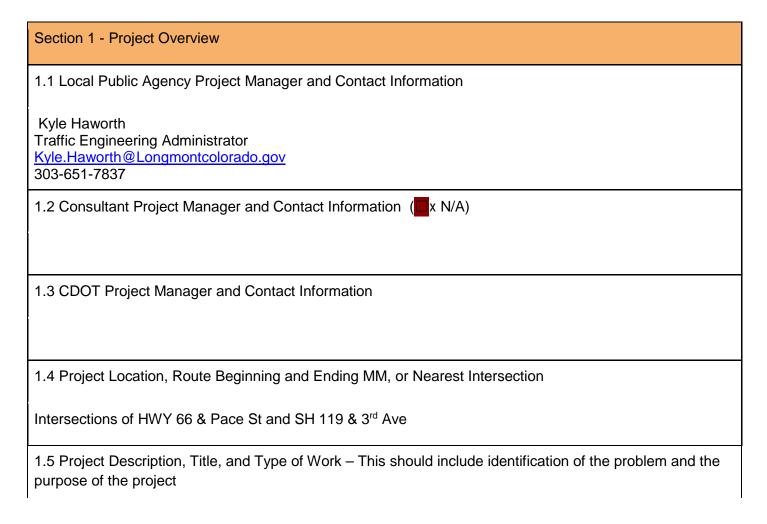
Comments:					



Requirement: The <u>systems engineering analysis (SEA)</u> process is required per <u>23 CFR 940</u>. The SEA is the project delivery process for the technology element of the project. If the project does not have technology, the project still needs documentation that the scope was evaluated and no additional SEA documentation is required beyond section two of this form. As a matter of policy, CDOT has committed to following the intent and requirements of the SEA process for all transportation projects, regardless whether the project is state or federally funded.

Purpose: The SEA is intended to help design a robust and sustainable technology system. The SEA prompts discussions during design with stakeholders and is intended to document those critical discussions. Since technology does require maintenance and has relatively short life cycles, the SEA also helps projects plan for how to keep the system maintained and operating after construction is completed.

Who is responsible: The local agency will be required to complete this form. This form shall be submitted to CDOT a minimum of two weeks prior to the FOR meeting. It must be reviewed and approved prior to receiving CDOT Concurrence to Advertise for construction. The ITS & Network Services Branch needs at least two weeks to review documents.





1.6 CDOT Project Number and Sub Account Code
N/A
1.7 Federal-Aid ⊠ Yes □ No
1.8 Is the project within CDOT's Right of Way (ROW)? ⊠ Yes □ No
1.9 Funding and Source of Each (Including State and Federal)
City of Longmont SS4A Grant (Federal)
1.10 Fiscal Year of Funding: FY 24-25

Section 2 - SEA Required?

Federal Requirement: 23 CFR 940.11 Project Implementation

2.1 Are there any technology elements included in the scope of the project?

The <u>National Regulation (23 CFR 940)</u> defines ITS as "electronics, communications, or information processing used singly or in combination to improve the efficiency or safety of a surface transportation system." An ITS project is "any project that in whole or in part funds the acquisition of technologies or systems of technologies that provide or significantly contribute to the provision of one or more ITS user services as defined in the National ITS Architecture."

Technology includes any type of device or system that is used to improve the roadways. This could include, but is not limited to, intelligent transportation systems devices. Examples are CCTV, DMS, VTMS, VSL, wrong way detection, RWIS, connected vehicles, non-traditional signals (click on link to understand which signals projects require an SEA), on board equipment in vehicles, and anything that has to be communicated to ATMS or other traffic management systems. Additionally, creating or modifying systems and software that impacts the roadway is included in the SEA classification. If there is still confusion on what is classified as technology, please reach out to the ITS & Network Services Branch.



⊠ Yes	□ No					
If the answer to 2.1 is "yes" then a SEA is required.						
If the answer to 2.1 is " no " then a SEA is not required and the rest of this form does not need to be completed, but Sections 1 and 2 will need to be submitted for documentation purposes.						
2.2 Which SEA process should be followed?						
□ Yes	⊠ No	Will the system be owned, operated, or maintained by CDOT?				
□ Yes	⊠ No	Does the project involve CDOT technology assets?				
□ Yes	⊠ No	Will the project connect to the CDOT network?				
⊠ Yes	□ No	Will the project be on CDOT right of way?				
□ Yes	⊠ No	Does the project involve multiple municipalities?				
If " yes " is selected for any of the above questions, then the <u>Robust SEA Process</u> needs to be followed and this form is no longer applicable.						
If " no " is selected for all questions, then completing this entire form will fulfill the <u>23 CFR 940</u> requirements for local agency projects only.						

Section 3 - ITS Architecture Conformance

Federal Requirement: 23 CFR 940.11(c)(1) - "Identification of portions of the regional ITS architecture being implemented (or if a regional ITS architecture does not exist, the applicable portions of the National ITS Architecture)"

Per 23 CFR 940, every project has to comply with an ITS Architecture Plan. For background information, there is a National ITS Architecture Plan that is maintained by FHWA. The National Architecture Plan consists of Service Packages that identifies a problem that needs to be solved or a certain application of a technology. A service package states the basic requirements the project must achieve to create consistency. CDOT is then required to select the service packages from the National ITS Architecture Plan that will assist in fulfilling CDOT's technology vision and make them CDOT specific. From there the local Council of Governments (COG's) have to make their ITS Architectures as well. The local agencies should

	use the COG's architecture plan if one exists. If one does not, the CDOT Architecture Plan should be followed.				
National ITS Architecture CDOT ITS Architecture	Service packages are critical to identify as part of compiling required SEA documentation. Service packages focus on how the technology is being used rather than specific devices. For example, there is no Dynamic Message Sign (DMS) service package. It will be critical to understand the intent of use for the DMS in order to determine the applicable service package(s). A DMS could fall within the TM06 Traffic Information Dissemination if the intent is to provide drivers with information. If a DMS is being installed as part of a tunnel, then it could fall under TM24 Tunnel Management. The key is focusing on what application the DMS is being used in. It is possible for a project to fall within multiple service packages. Please reach out to the ITS & Network Services Branch with any questions.				
3.1 Which architecture plan v	will be used?				
☐ National ITS Architecture	e CDOT ITS Architecture				
□ COG					
3.2 If using a COG/MPO/TPF Architecture Plan.	R Architecture Plan, what COG? N/A for using the National or CDOT				
3.3 List service packages that	at will be implemented on this project:				
1.					
2.					



To add additional service packages click in the line item 2 box and hit enter.

Section 4 - Procurement				
Federal Require	ement: 23 CFR 940.11(c)(5) Procure	ment optic	ons	
4.1 State the pr	rocurement method for the project.			
☐ Competitivel	y Bid	⊠ Sole Source		
4.2 If 4.1 is con	npetitively bid, then what kind is the p	roject deli	very method?	
☐ Design, Bid, Build		□ Design Build		
☐ Construction Manager/General Contractor		☐ Other (Please specify)		
Section 5 - Alte	ernative Analysis			
Federal Requirements options to mee		sis of alter	native system configurations and technology	
Instructions: Document alternatives considered. When thinking of alternatives it is important to consider maintenance resources and costs into the selected alternative. An alternative can also include not implementing the project. More rows can be added as needed.				
Alternative Title	Alternative Description	Selected (Yes/No)	Reason	
Completely bid general detection systems	Issue RFP for traffic signal detection systems.	No	Longmont currently has standardized equipment to be used at traffic signals as city staff is knowledgeable and familiar with the system and operation of equipment. Alternatives would require extensive training and degradation of city network as other systems will not integrate natively.	



Section 6 - Roles & Responsibilities

responsibilities

To add additional rows, right click on a row, select "insert", select "row below"

Federal Requirement: 23 CFR 940.11(c)(2) - Identification of participating agencies roles and

Instructions: Determine life cycle. More rows ca	•		sed technol	ogy sys	tem throughout the entire
Agency	Role/Position	Contact Info	Phase	e*	Responsibility
City of Longmont	Project Manager	Kyle.Haworth@Long montcolorado.gov	Procurement installation	and	Procurement and Installation
*Phase: Design, Construction, Operations To add additional rows, right click on a row, select "insert", select "row below"					
Section 7 - Requirements & Corresponding Standards					
Federal Requirement: 23 CFR 940.11(c)(3) Requirements definitions and 23 CFR 940.11(c)(6) Identification of applicable ITS standards and testing procedures					
Instructions: Determine the functional requirements of the system and how these requirements will be implemented. Implementation could be specifications or included in the general design of the system. More rows can be added as needed.					
Functional Requirement				How is the requirement included in the project? Spec, plan set, etc	
Procurement Options				Spec	



Procedures and resources necessary for operations and management of the system	Longmont Standards for Traffic Signal Equipment

To add additional rows, right click on a row, select "insert", select "row below"

Section 8 - Devices & System				
Federal Requirement: 23 CFR 940.11(c)(6) Identification of applicable ITS standards and testing procedures and 23 CFR 940.11(c)(7) Procedures and resources necessary for operations and management of the system				
8.1 Is a list or a map with all of the proposed devices attached? ☐ Yes ☐ No				
8.2 Determine how each device type installed or modified on the project will be specified, tested, and operation of the devices documented. If the project is a whole system, then there may need to be a system wide test as well to ensure all devices are working together properly. More rows can be added as needed.				
Device and system type included in project	Is there a supporting specification(s)? If yes, give specification title.	Is there a supporting test document? If yes, give testing procedure title.	Is this device documented in a Standard Operating Procedure (SOP) Document? If yes, give SOP title.	Is this device documented in a Maintenance Plan document? If Yes, give maintenance plan title.
FLIR Trafisense Al	FLIR ITS Infrastructure Datasheet	FLIR ITS Infrastructure Datasheet	FLIR ITS Infrastructure Datasheet	Longmont Standards for Traffic Signal Equipment

To add additional rows, right click on a row, select "insert", select "row below"



Section 9 - FHW	/A Involvement		
9.1 Has FHWA classified this project as a Project of Division Involvement (PODI) and requires involven in the review of SEA documents?			
□ Yes	⊠ No		

Section 10 - Schedule					
10.1 Design Start Date:		10.2 AD date:			
10.3 Construction Start:	8/2024	10.4 Construction completion:	10/2025		
10.5 Relationship to other Federal, State, and local projects and phases. Tip: Does this project depend on another project to operate successfully? Is this project one of a series or projects for a phased approach?					
Dependent on selection of SS4A grant.					

