

EL DORADO COUNTY
AIR QUALITY MANAGEMENT DISTRICT

MOTOR VEHICLE EMISSION REDUCTION PROJECTS 2018 & 2019

PROJECT PROPOSAL
EL DORADO TRAIL EXTENSION PROJECT



Submitted by the El Dorado County Department of Transportation

January 16, 2018



COMMUNITY DEVELOPMENT AGENCY

TRANSPORTATION DIVISION

<http://www.edcgov.us/DOT/>

PLACERVILLE OFFICES:

MAIN OFFICE:

2850 Fairlane Court, Placerville, CA 95667
(530) 621-5900 / (530) 626-0387 Fax

CONSTRUCTION & MAINTENANCE:

2441 Headington Road, Placerville, CA 95667
(530) 642-4909 / (530) 642-0508 Fax

LAKE TAHOE OFFICES:

ENGINEERING:

924 B Emerald Bay Road, South Lake Tahoe, CA 96150
(530) 573-7900 / (530) 541-7049 Fax

MAINTENANCE:

1121 Shakori Drive, South Lake Tahoe, CA 96150
(530) 573-3180 / (530) 577-8402 Fax

January 16, 2018

County of El Dorado
Air Quality Management District
345 Fair Lane, Bldg. T-1
Placerville, CA 95667

Attn. Adam Baughman, Time Critical, Please hand deliver

Dear Mr. Baughman,

Attached is a Motor Vehicle Emission Reduction Project proposal from the County of El Dorado Department of Transportation (Transportation) for FY 2017/18 AB2766 DMV Surcharge Fees funding. The proposed project is for the **El Dorado Trail Extension – Missouri Flat Road to El Dorado Project**.

The Project will extend the existing Class 1 multi-use El Dorado Trail from Missouri Flat Road to the Town of El Dorado approximately 2.2 miles along the Sacramento to Placerville Transportation Railroad Corridor. DOT was successful in obtaining a \$3,419,000 Active Transportation Grant (ATP) 2017 for the Construction phase of this project, which will serve as the match for the requested funds.

DOT is requesting \$215,960 of AB 2766 DMV Surcharge Fees to cover a remaining funding gap and ensure the successful delivery of this \$3,634,960 project. The requested funds will be applied toward the Construction phase only. All prior phases have been funded.

Enclosed within the proposal please find BOS Policy A-6 providing County Director's the authority to submit grant applications. Thank you for your consideration of this Motor Vehicle Emission Reduction Project proposal. If you have any questions, please contact Rob Peters at 621-6644 or e-mail at Robert.peters@edcgov.us.

Sincerely,

Rafael Martinez, Director
Department of Transportation

RM:sf

c: Donna Keeler, Principal Planner

PROJECT SUMMARY

Applicant: El Dorado County Department of Transportation
Contact Person: Rob Peters, Senior Transportation Planner
Address: 2850 Fairlane Court, Placerville, CA 95667
Telephone: (530) 621-6644 **FAX:** #: (530) 626-0387
Email: robert.peters@edcgov.us

Project Title: El Dorado Trail Extension – Missouri Flat Road to El Dorado

Project Description:

This project proposal for FY 17/18 Motor Vehicle Emission Reductions AB2766 DMV Surcharge Fees funding is for the construction phase of work to extend the existing Class 1 multiuse El Dorado Trail 2.2 miles from Missouri Flat Road to the Town of El Dorado along the Sacramento to Placerville Transportation Railroad Corridor (SPTC). (See attached Figures 1-3 for a Vicintiy and Location Maps, Proposed Project Plans, , and Photograph Log). The project will be ready for construction in 2018 upon obtaining the necessary final permits. The environmental, design and right-of-way phases were completed in 2017.

Estimated Emission Reductions/Cost-Effectiveness	<u>As Proposed</u>
Useful Life of Project (years)	20
Total Lifetime Emissions Reduced (lbs. Of ROG, Nox, PM-10) = (45.8 + 24.4 + 9.2) = 79.4 / year * 20 years =	1,588
Annualized Cost-Effectiveness (total project costs)* \$3,634,960 / 79.4 = \$45,780.35 * (.07) = \$3,204.62	\$3,204.62 / lb.
Annualized Cost-Effectiveness (AQMD Funded project costs)* \$215,960 / 79.4 = \$2,719.90 * (.07) = \$190.39	\$190.39 / lb.

* See Attachment 3 for instructions

Budget Summary	AB 2766 Funds	\$ Matching Funds	In-Kind Match	Total Project Costs (Construction phase)
<i>Other</i>	\$215,960	\$3,419,000	--	\$3,634,960
TOTAL	\$215,960	\$3,419,000		\$3,634,960

CONTENTS CHECKLISTApplicant: **El Dorado County Department of Transportation**

- Authorization Letter/Resolution - page 1
- Project Summary Sheet (Cover) - page 2
- Request for Proposal Contents Checklist (Second Page) - page 3
- Project Description - page 4
- Project Organization/Background – page 5
- Emission Benefits/Cost Effectiveness – pages 6 and 7
(*Must utilize **May 2013** Emission Factors*)
- Work Statement – page 8
- Funding Request/Cost Breakdown – page 9
- Matching Funds – page 9
- Schedule of Deliveries/Self-Monitoring Program – page 10
- Figure 1, Project Vicinity and Location Map - page 11
- Figure 2, Proposed Project Maps - pages 12-19
- Figure 3, Photograph Log - pages 20-25
- Figure 4, Project Cost Estimate - page 26 and 27
- Figure 5, Board of Supervisors Grant Application Policy - pages 28 and 29
- Figure 6, ATP Augmentation – Final Adopted Program - page 30
- Figure 6, Letters of Support - pages 31-34
- Local TPA Review (If Applicable) - N/A
- 2 Copies of Proposal

PROJECT DESCRIPTION

Identify the objectives and describe project scope of work.

The El Dorado County Department of Transportation (DOT) plans to construct a 2.2 mile Class 1 (separated) bicycle and pedestrian path improvement on the El Dorado Trail from Missouri Flat Road near Placerville to the historic Town of El Dorado along the SPTC corridor. The project will be constructed as an eight foot wide paved path with two foot shoulders and will include signage and enhanced roadway crossing in two locations at Blanchard and Forni Roads. The new trail segment will connect to an existing Class 1 Trail enhancing non-motorized access to jobs, schools and services in the area. Upon completion, the total length of the Class 1 bicycle and pedestrian trail system from western Placerville to the Town of El Dorado will be approximately 6 miles. The project will also connect to a pedestrian overpass over Missouri Flat Road that is currently under design.

The primary objectives of this Class 1 bicycle and pedestrian transportation facility are to:

1. Provide a non-motorized alternative transportation option for residents in El Dorado, Diamond Springs and Placerville to use to commute to work/school, connect to transit and access services, medical facilities, commercial centers and recreational opportunities.
2. To improve safety for bicyclists and pedestrians by providing a separating bicycle and pedestrian facility.
3. To reduce auto trips replaced by bicycle and walking trips resulting in reduced emissions/improved air quality.

This project is included as one of the highest priority Tier I bikeway projects in the El Dorado County *Bicycle Transportation Plan* (BTP) adopted 2010. The BTP was a collaborative planning effort with the El Dorado County Transportation Commission, the El Dorado County Bicycle Advisory Committee, the El Dorado Hills Bicycle, Pedestrian and Trails Advisory Committee, and the El Dorado Hills Community Services District, along with public participation and support. This project is also included in the County DOT's current five-year Capital Improvement Program. AB2766 funding of the Construction phase of this project will enable this project to be completed by 2019.

In 2017 the project successfully obtained a \$3.419 million ATP grant for the construction phase. With construction costs increasing annually, project estimates have gone up, requiring an additional \$215,960 to fill the funding gap. If awarded, the requested funds will play a critical role in ensuring the project is delivered within the required time frame under the ATP grant.

PROJECT ORGANIZATION/BACKGROUND

A description of your ability to implement project.

DOT is a public agency that is part of the El Dorado County Government. DOT currently has approximately 120 full-time positions dedicated to maintaining County roads, trails and other transportation facilities serving El Dorado County residents. DOT is committed to delivering transportation projects that improve safety, traffic circulation and mobility within the County. Since 1992, DOT and has consistently delivered small to large scale projects worth tens of millions of dollars. The current DOT FY 2017/18 Five-Year Capital Improvement Program (CIP) contains over 70 transportation projects at a total cost exceeding \$190 million.

The County DOT recognizes the importance of bicycle and pedestrian mobility and has a *Bicycle Transportation Plan* (BTP) adopted in 2010, which is slated to be updated in 2018/19. The proposed project is consistent with the goals and objectives of the BTP. The BTP's overall goal and vision statement is to "Provide a safe, efficient and convenient network of bicycle facilities that establish alternative transportation as a viable option in El Dorado county and neighboring regions." The objective is to "increase bicycling and walking as a transportation mode to reduce congestion, improve air quality and improve public health." The County DOT has successfully obtained Congestion Mitigation and Air Quality Program (CMAQ) and Active Transportation Program (ATP) funding for this project and the AB2766 DMV Surcharge Funding requested in this proposal is greatly needed to fill the funding gap to ensure that this emission-free alternative transportation option may be successfully completed.

Describe previous, similar, successful projects.

The County DOT has successfully completed several Class 1 bicycle and pedestrian facility projects that have been partially or fully funded through various grant programs, including DMV Emissions Reduction Fund, ATP, CMAQ, Safe Routes to School, Urban Surface Transportation Program, and others. **Over 50 bicycle and pedestrian projects have successfully been delivered in El Dorado County in the past 15 years**, including the El Dorado Class 1 Trail from Forni Road to Missouri Flat Road, New York Creek Trail in El Dorado Hills, the newly inaugurated Bob Smart Class 1 Trail, Sawmill Class 1 Bicycle Trail in Meyers and various others. County engineering staff has extensive experience designing and delivering these types of projects.

If using sub-contractors, identify and state their qualifications. If sub-contractors have not yet been identified, state qualifications to be met.

The Preliminary Engineering (PE) and Right of Way (ROW) work was completed by highly experienced County DOT engineering staff. The construction phase of the project will be completed by a Class A California licensed contractor that meets the insurance and bonding requirements of the County.

EMISSION BENEFITS/COST EFFECTIVENESS

Estimate total lifetime NOx, ROG, and PM-10 emission reductions. You must use any historical data on ridership, vehicle miles traveled, participation or other metric in the calculations. Calculations, assumptions and data necessary for estimates must be included in proposal and will be verified by AQMD staff. Automated Methods to Calculate Cost-Effectiveness and other cost-effectiveness analysis information is at: <http://www.arb.ca.gov/planning/tsaq/eval/eval.htm> Use May 2013 emission factors found on that same webpage.

Bicycle and Pedestrian Facilities

Project definition: The El Dorado Trail Extension Class 1 Bike Path is a non-motorized bicycle and pedestrian facility that is targeted to reduce vehicle emissions by providing a safe non-motorized transportation alternative. This Class I facility is physically separated from motor vehicle traffic and provides a safer route for residents to commute to work/school and reach essential services such as medical facilities on Missouri Flat Road and in Placerville. The facility will be built to Caltrans standards for bicycle facilities.

How emissions are reduced: Emission reductions will result from the decrease in emissions associated with auto trips replaced by bicycle/walking trips for commute or other non-recreational purposes.

Inputs to Calculate Cost Effectiveness:

Inputs	Default	Units	Comments
Funding Dollars (Funding)	\$215,960	Dollars	Requested Amount
Effectiveness Period (Life)	20	Years	Life - Class 1 projects
No. of Operating Days (D)	300	Days of use/year	February through November
Average length of bicycle trips	1.8	Miles per trip (one direction)	Default is based on the National Personal Transportation Survey Estimate
Annual Average Daily Traffic (ADT)	24,000	Trips per day	Total two-way traffic volumes on adjacent roadways (ADT for Missouri Flat, Pleasant Valley and Forni Roads = 38,517); use maximum Class 1 ADT of 24,000 per <i>Method to Find the Cost-Effectiveness of Funding Air Quality Projects, May 2005</i> .
Adjustment (A) on ADT for auto trips replaced by bike trips from the bike facility.	0.0027		From the Adjustment Factors table for Class 1 (bike path) with 12,000 < ADT ≤ 24,000; length of bike project (one direction) > 2 miles for non-university town with population < 250,000
Credit (C) for Activity Centers near the project.	0.002		From Activity Centers Credits table for five activity centers within 1/4 mile of the project

Emission Factor Inputs for Auto Travel (From Table 3 for a 16–20 year Project Life):

Factor	Default Auto Commute Trip End Factor	Units	Default Auto VMT Factor	Units
ROG	0.462	grams/trip	0.119	grams/mile
NOx	0.162	grams/trip	0.130	grams/mile
PM10	0.004	grams/trip	0.094	grams/mile

Source: *Methods to Find the Cost-Effectiveness of Funding Air Quality Projects, Table 3 Average Auto Emission Factors (April 2013) with PM Size Fractions Referenced to PM2.5 (July 2013)*

Calculations:

Annual Auto Trip Reduced = (D) * (ADT) * (A + C) trips/year
 = (300) * (24,000) * (0.0027 + 0.002)
 = **33,840** (7,200,000 *0.0047)

Annual Auto VMT Reduced = (Auto Trips) * (L) miles/year
 = (24,000) * (1.8)
 = **43,200**

Annual Emission Reductions (ROG, NO_x, and PM10) in lbs./year
 = [(Annual Auto Trips Reduced)*(Auto Trip End Factor) + (Annual Auto VMT Reduced)
 *(Auto VMT Factor)]/454

ROG: [(33,840 * 0.462) + (43,200 * 0.119)] / 454 =
 (15,634.08) + (5140.8) = 20,774.88 / 454 = **45.8 lbs. per year**

NO_x: [(33,840 * 0.162) + (43,200 * 0.130)] / 454 =
 (5482.08) + (5616) = 11,098.08 / 454 = **24.4 lbs. per year**

PM10: [(33,840 * 0.004) + (43,200 * 0.094)] / 454 =
 (135.36) + (4060.8) = 4196.16 / 454 = **9.2 lbs. per year**

Capital Recovery Factor (CRF) = $\frac{(1+i)^n (i)}{(1+i)^n - 1}$ $\frac{(1+0.03)^{20} (0.03)}{(1+0.03)^{20} - 1}$ = **0.07**
 (From Table 8)
 Where n = project life (20 years)
 Where: i = discount rate (assume 3%)

Annualized Cost-Effectiveness of Funding Dollars = (CRF * Funding) / (ROG + NO_x + PM10)
 (As Proposed) = (0.07 * \$215,960) / (45.8 + 24.4 + 9.2)
 = **\$190.39 dollars per lb.** (15,117.20 / 79.4)

WORK STATEMENT

Describe work phases, tasks, and deliverables in sequence.

The proposed project will entail the Construction phase only. Preliminary Engineering and Right-of-Way activities are currently underway and will be complete by December 2018. The project obtained CEQA approval in December of 2017 and is anticipated to obtain NEPA approval by November of 2018.

List tasks within each phase of work and describe as necessary.

Construction – The Construction phase entails administering the construction contract as follows:

1. The project will be advertised to solicit bids following federal, state, and local agency public works guidelines.
2. The construction contract will be awarded to the lowest responsive, responsible bidder and a Notice to Proceed subsequently issued.
3. The construction contract will be administered by County DOT staff to include: construction engineering and oversight, inspection, construction staking/surveying, materials testing, and coordination with regulatory agencies for environmental compliance.

Construction of the project will include approximately 2.2 miles of Class 1 bike path from Missouri Flat Road to the town of El Dorado. Pedestrian signals/flashing beacons are anticipated to be installed at the Forni and Blanchard Road at-grade crossings. Drainage improvements will include modifications and/or extensions to existing culverts and storm drains. Other improvements include construction of retaining walls to minimize Right-of-Way and oak tree impacts.

State the sequence of work activities, including a starting date, this date should not be sooner than the contract execution date between the District and Grantee, and a completion date within one year of executed contract.

Work Activity	Start Date	Completion Date
NEPA Approval	January 2018	November 2018
R/W & Utility Certification	February 2018	December 2018
Bid Documents	May 2018	December 2018
Construction	April 2019	November 2019

Include all relevant information regarding the technology involved, and the parties directly connected with the project.

The technology used is typical transportation engineering, environmental planning/CEQA compliance and standard Right-of-Way procedures. The project involves the El Dorado County DOT engineering/environmental/planning staff and Caltrans staff. Bike and pedestrian counters and flashing beacons are anticipated to be installed in the near future.

All grant recipients must provide some type of public acknowledgment that their project was funded by the District utilizing AB2766 DMV Surcharge Funds. How will this be accomplished for this project (e.g. logo/placard on equipment, include acknowledgment in a public education address or pamphlets, etc.)?

Acknowledgement that this project was partially funded by the El Dorado County AQMD utilizing AB2766 DMV Surcharge Funds will be included in news releases issued and on signage placed at the construction

site. In addition, acknowledgments will be included in press releases and publicity packets distributed at groundbreaking and ribbon cutting ceremonies.

ACKNOWLEDGEMENT

All recipients must provide public acknowledgment that project was funded by AQMD with AB2766 Funds. Acknowledgements include placards on equipment, acknowledgment in a public education address or pamphlets, etc. Describe acknowledgment.

Acknowledgement that this project funded by the El Dorado County AQMD utilizing AB2766 DMV Surcharge Funds, ATP and CMAQ funds (phases 1 and 2) will be included in news releases issued and on signage placed at the construction site. In addition, acknowledgments will be included in press releases and publicity packets distributed at groundbreaking and ribbon cutting ceremonies.

FUNDING REQUEST/BREAKDOWN OF COST

Include amount of money requested from the AB2766 DMV Surcharge fund and total project cost. Estimate cost for each task. Identify source of funding for each task. Itemize any equipment to be purchased and the proportion of the cost of each piece of equipment to be paid with AB2766 DMV Surcharge funds. Grant funds may only be used to fund the portion of equipment’s cost related to the provision of air quality benefit.

This proposal is requesting **\$ 215,960** of AB 2766 DMV Surcharge Funds to apply towards the CON phase of the El Dorado Trail Extension Project. The requested amount will close a critical funding gap to ensure delivery of the project by 2019. The following table details the total estimated project costs, broken down by task and fiscal year. The second table identifies the revenue sources by fiscal year.

Cost Estimates by Task (as of 01/16/2018)

Task	FY 18/19	FY 19/20	Total
Direct Construction Costs	\$ 1,298,184	\$ 1,947,276	\$ 3,245,460
Construction/Engineering & Admin.	\$ 155,800	\$ 233,700	\$ 389,500
Total Estimated Project Costs	\$ 1,453,984	\$ 2,180,976	\$ 3,634,960

Revenue Source for Construction Phase (as of 01/16/2018)

	FY 18/19	FY 19/20	Total
AB2766 DMV Surcharge funds requested	\$ 215,960	\$ 0	\$ 215,960
Active Transportation Program	\$ 1,238,024	\$ 2,180,976	\$ 3,419,000
Total Revenue	\$ 1,453,984	\$ 2,180,976	\$ 3,634,960

MATCHING FUNDS

State if matching funds are monetary or in-kind (non-dollar). AQMD staff will evaluate matching funds. Ineligible funds will not be used in cost-effectiveness determination. Provide proof (letter of commitment) that matching funds are available. Matching funds must be available when the grantee enters into contract with AQMD and must be used to fund project. If matching funds become unavailable, projects will be cancelled.

The State of California Transportation Commission approved the programming of a monetary contribution of \$3,419,000 of Active Transportation Program Augmentation funds in 2017 (see attached Final CTC ATP

Augmentation List). This amount will provide a 1000+ % monetary match to the requested AB 2766 funds providing a high cost benefit and strong leveraging opportunity for the AB 2766 program.

SCHEDULE OF DELIVERABLES/SELF-MONITORING PROGRAM

Work Products/Deliverables	Delivery Date
1. Award Contract/Start Construction	FY 18/19
2. Project Complete or Open for Use.....	FY 19/20

Self-Monitoring Program

Describe how the project objectives will be measured and reported to the AQMD.

The County DOT project manager for this project will provide the El Dorado County Air Quality Management District (AQMD), if requested and at intervals determined by AQMD, with project progress reports detailing the work performed during the current reporting period; work planned for the next reporting period; problems identified, solved, and/or unresolved; and the percentage of the task completed. A comprehensive final written report, documenting the work performed, will be provided to AQMD prior to the end of the Agreement term.

FIGURE 1. PROJECT VICINTIY AND LOCATION MAPS

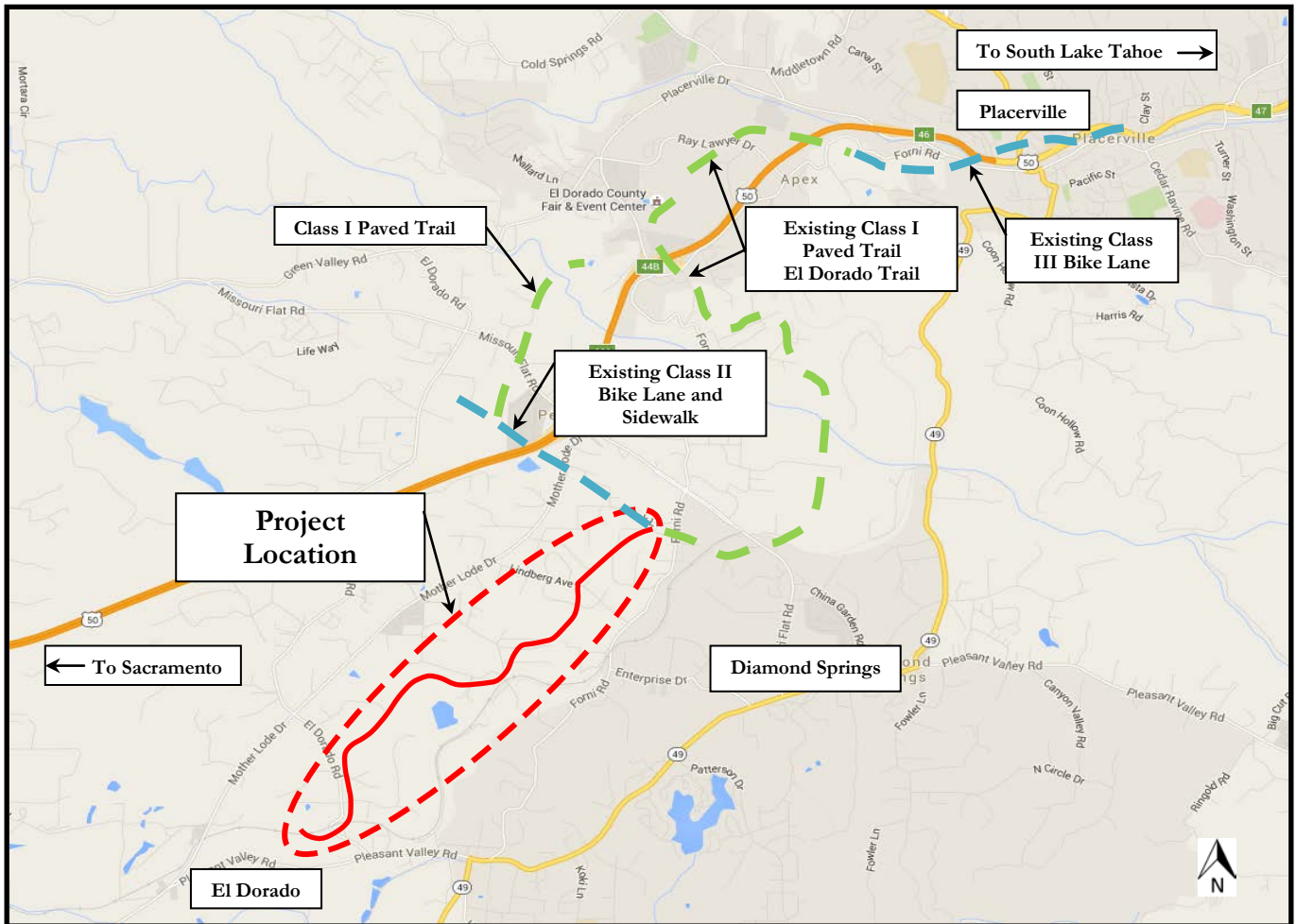
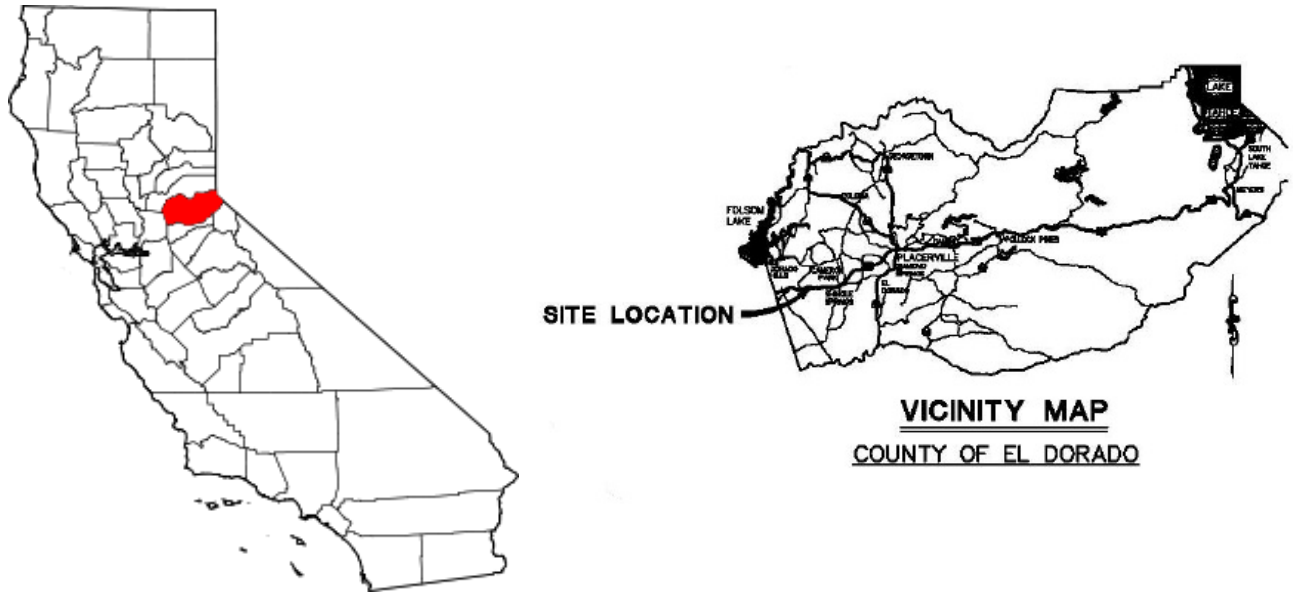
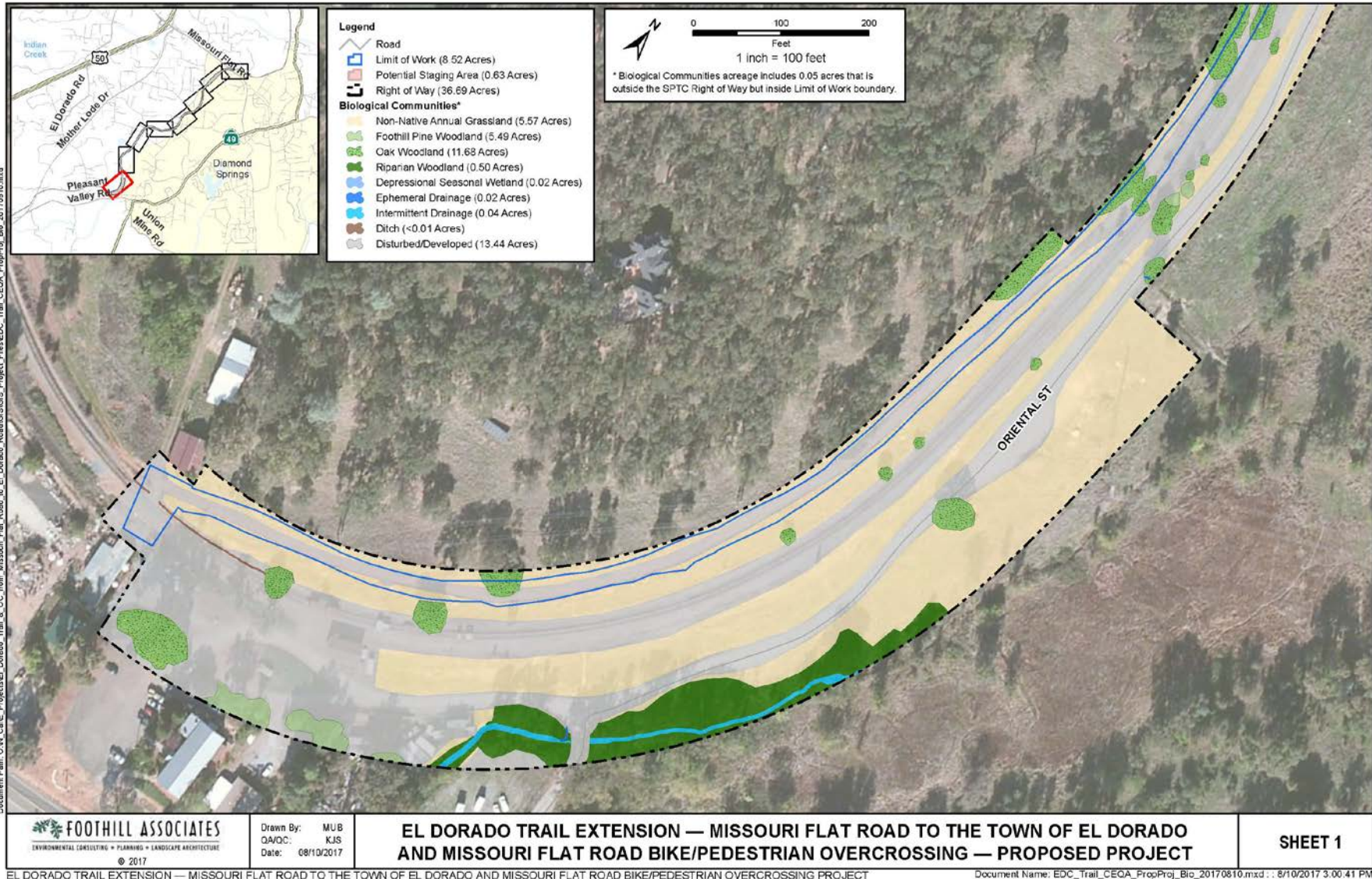
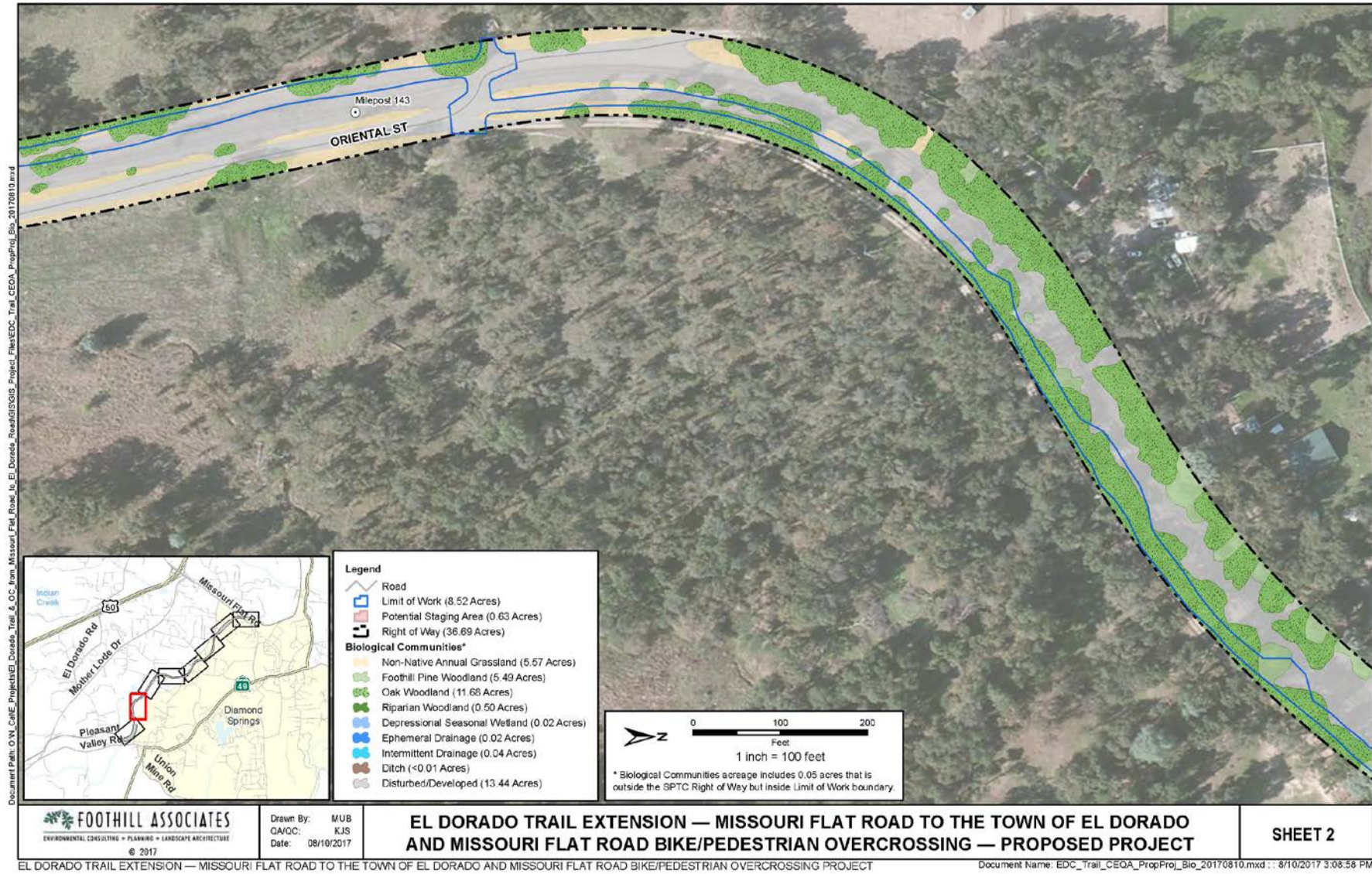
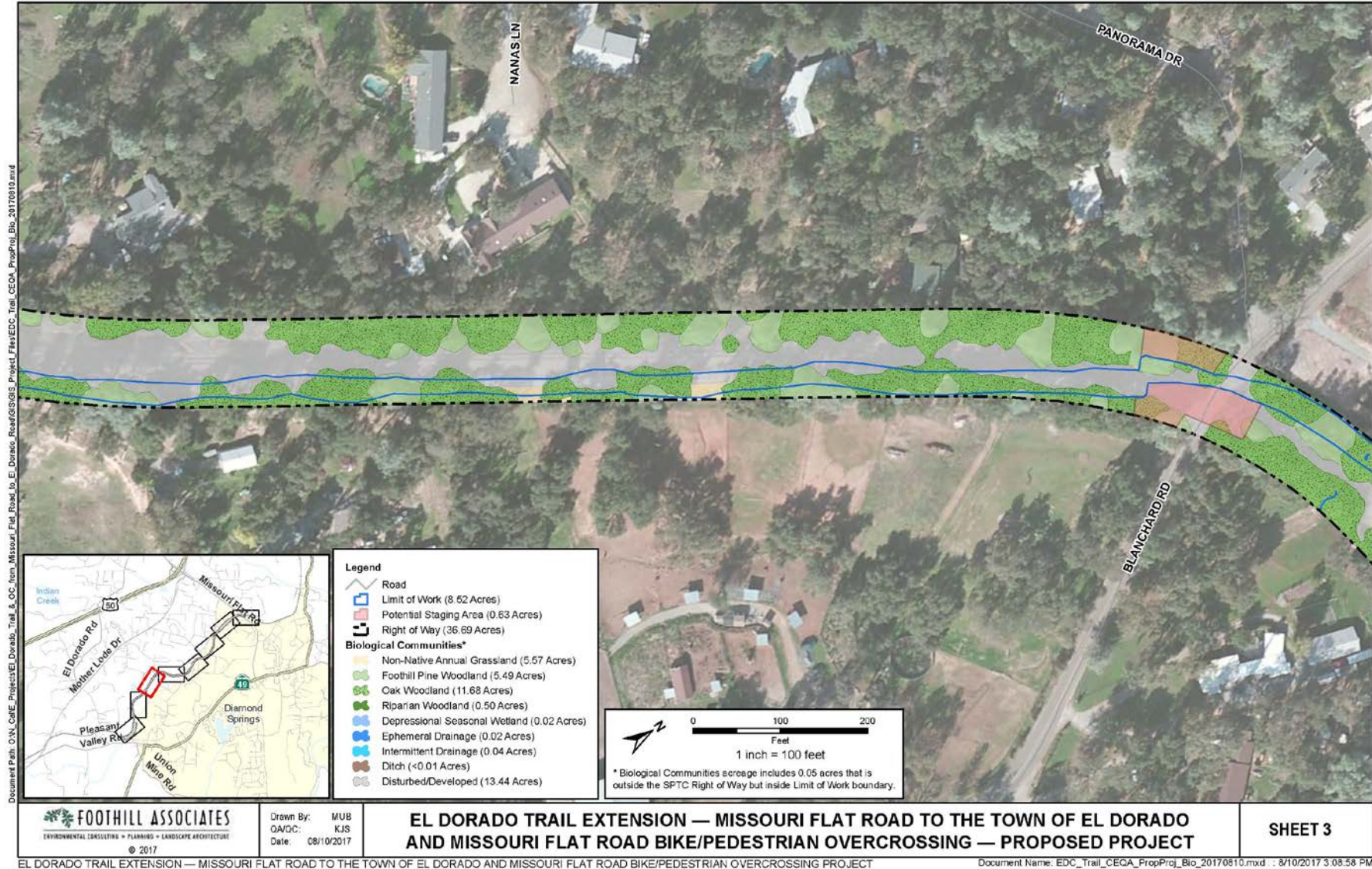
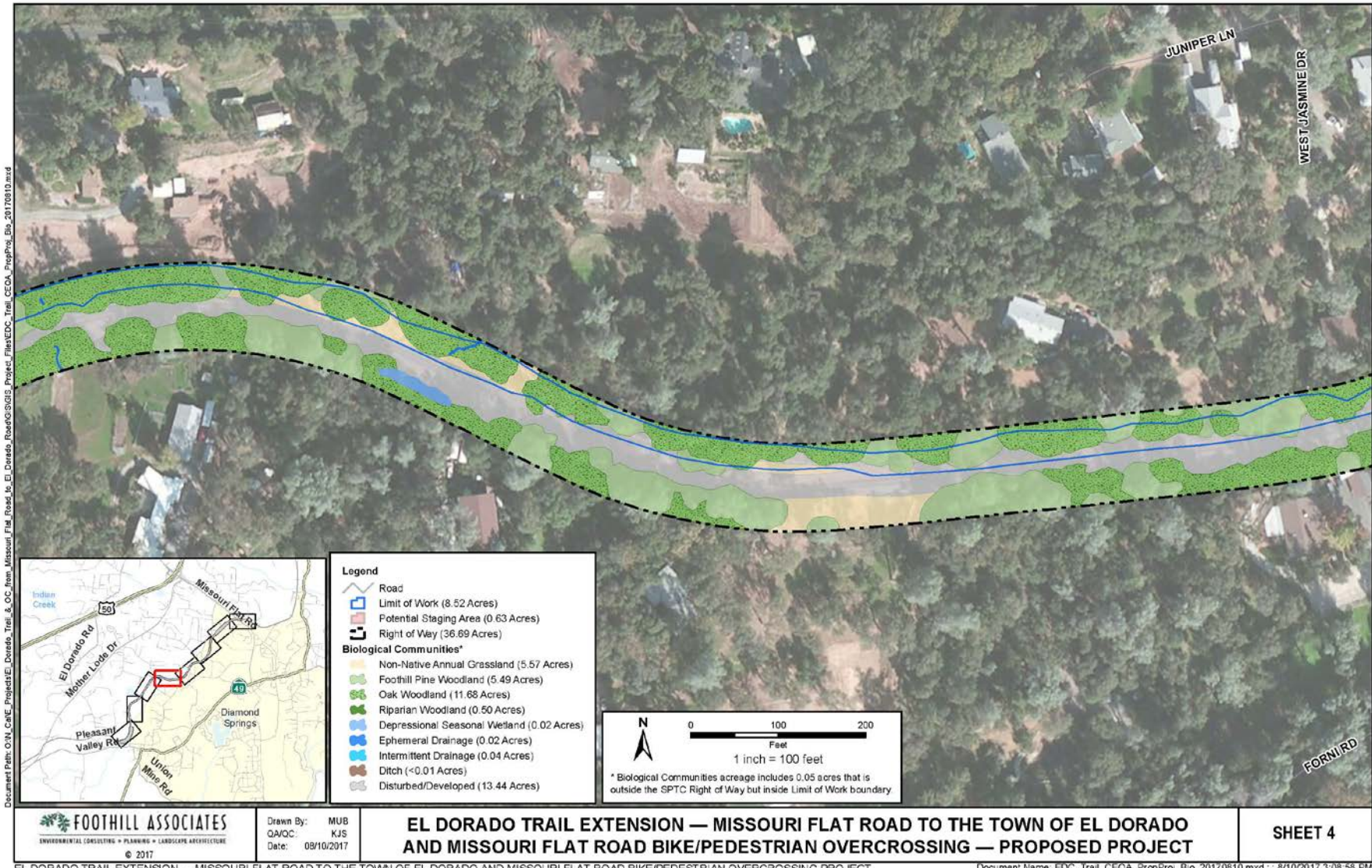


FIGURE 2. PROPOSED PROJECT MAPS









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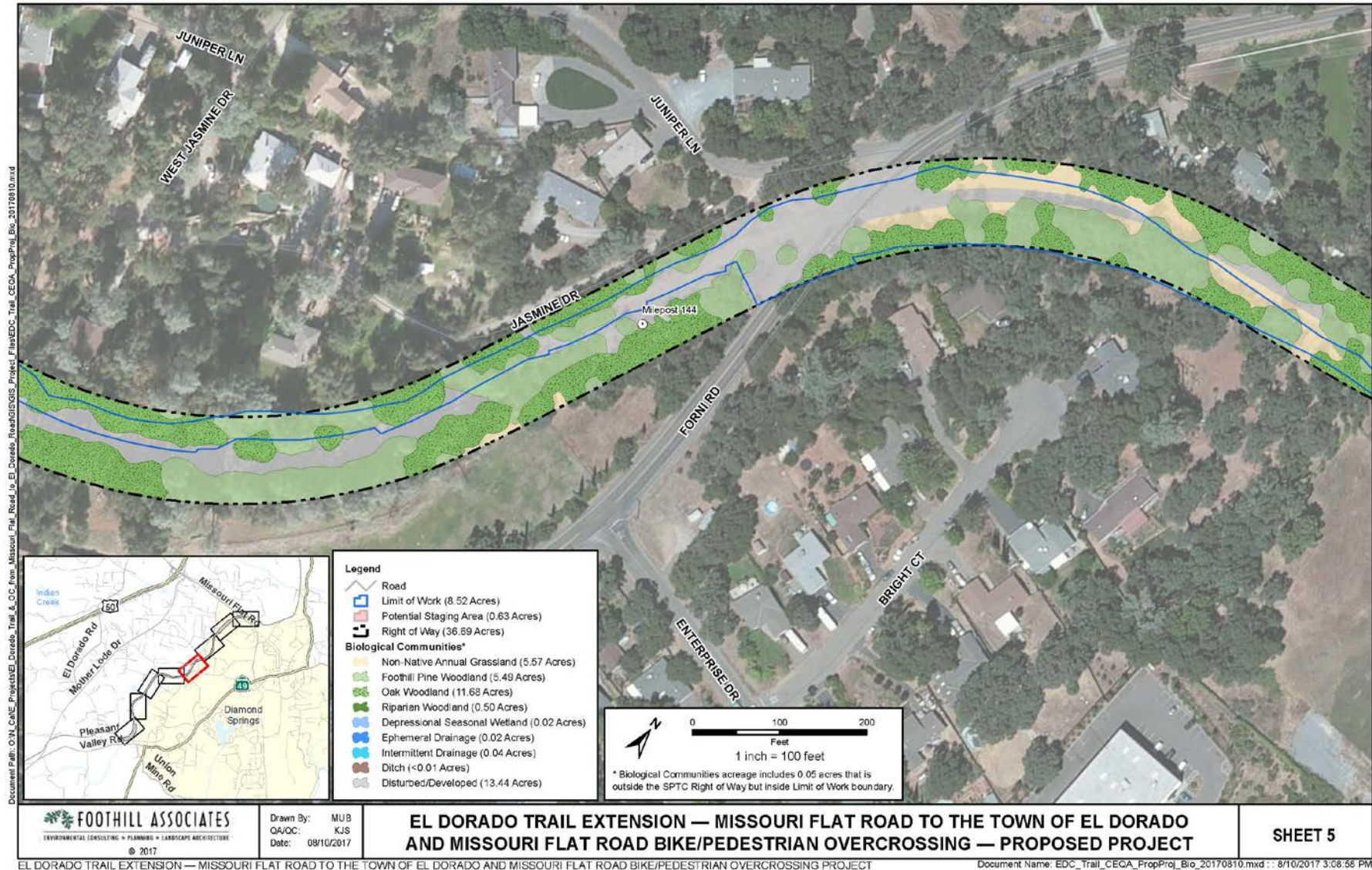
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 QA/QC: KJS
 Date: 08/10/2017

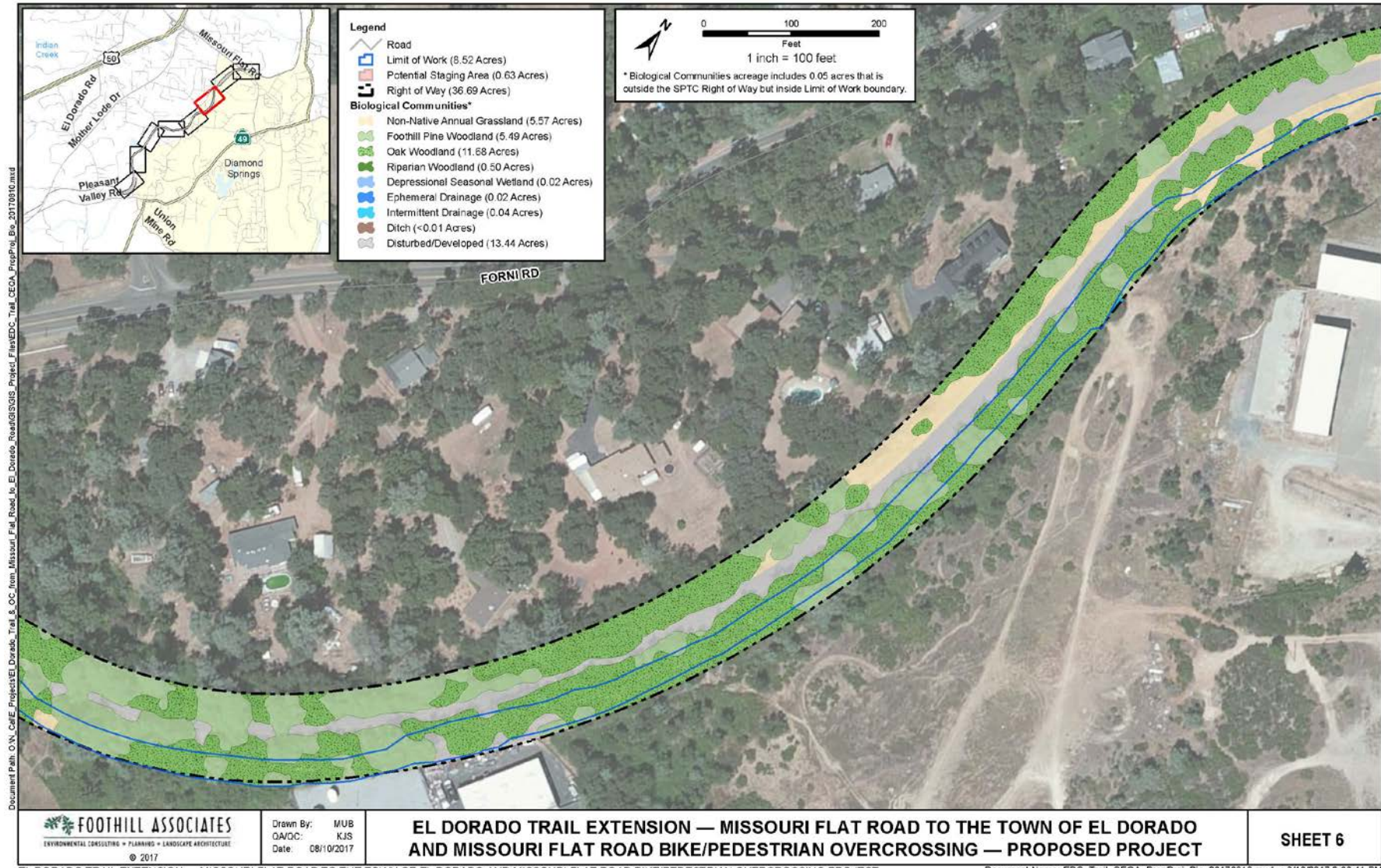
EL DORADO TRAIL EXTENSION — MISSOURI FLAT ROAD TO THE TOWN OF EL DORADO AND MISSOURI FLAT ROAD BIKE/PEDESTRIAN OVERCROSSING — PROPOSED PROJECT

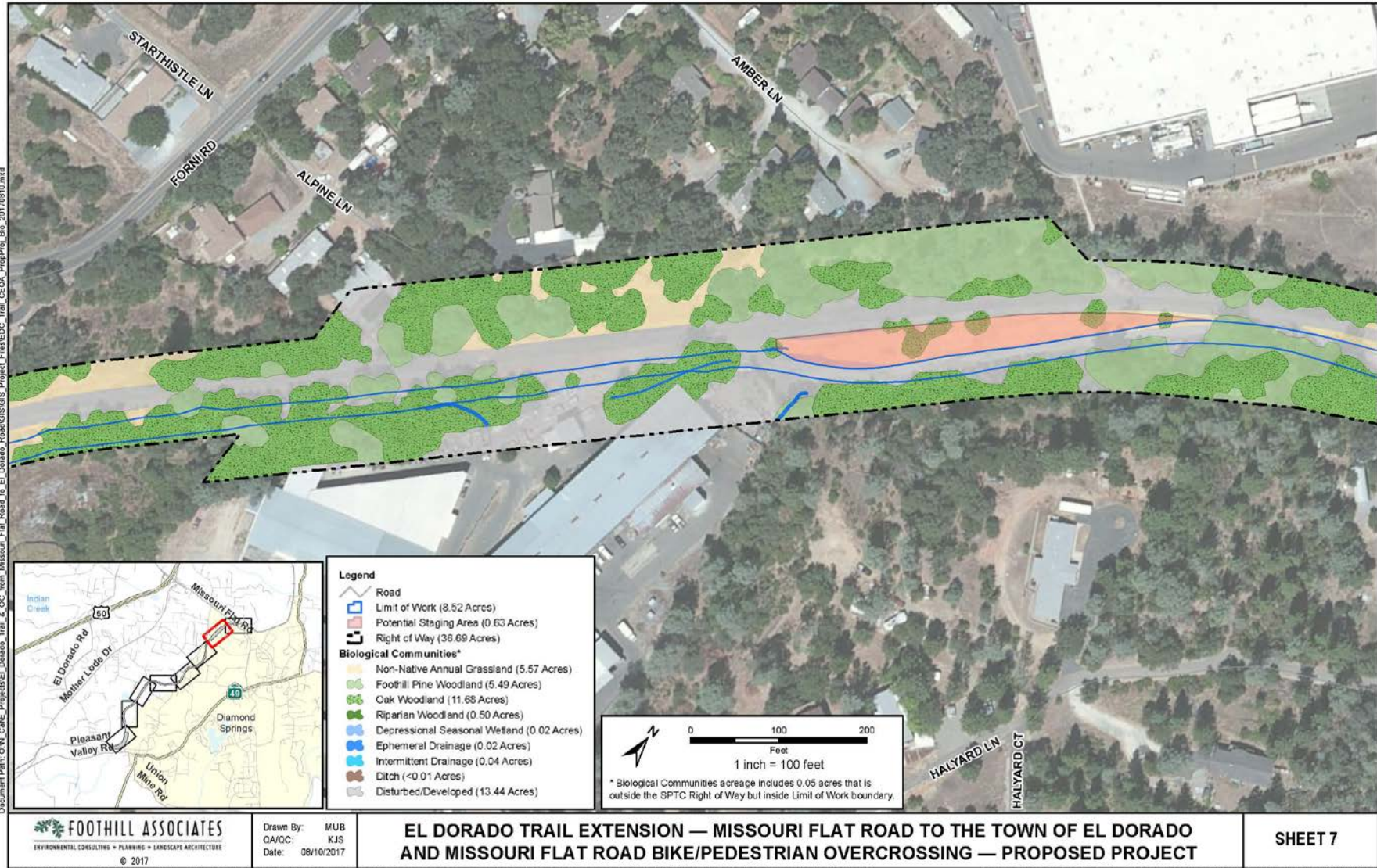
SHEET 4

EL DORADO TRAIL EXTENSION — MISSOURI FLAT ROAD TO THE TOWN OF EL DORADO AND MISSOURI FLAT ROAD BIKE/PEDESTRIAN OVERCROSSING PROJECT

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EL DORADO TRAIL EXTENSION — MISSOURI FLAT ROAD TO THE TOWN OF EL DORADO AND MISSOURI FLAT ROAD BIKE/PEDESTRIAN OVERCROSSING — PROPOSED PROJECT

SHEET 7

EL DORADO TRAIL EXTENSION — MISSOURI FLAT ROAD TO THE TOWN OF EL DORADO AND MISSOURI FLAT ROAD BIKE/PEDESTRIAN OVERCROSSING PROJECT Document Name: EDC_Trail_CEOA_PropProj_Bio_20170810.mxd : 8/10/2017 3:08:58 PM

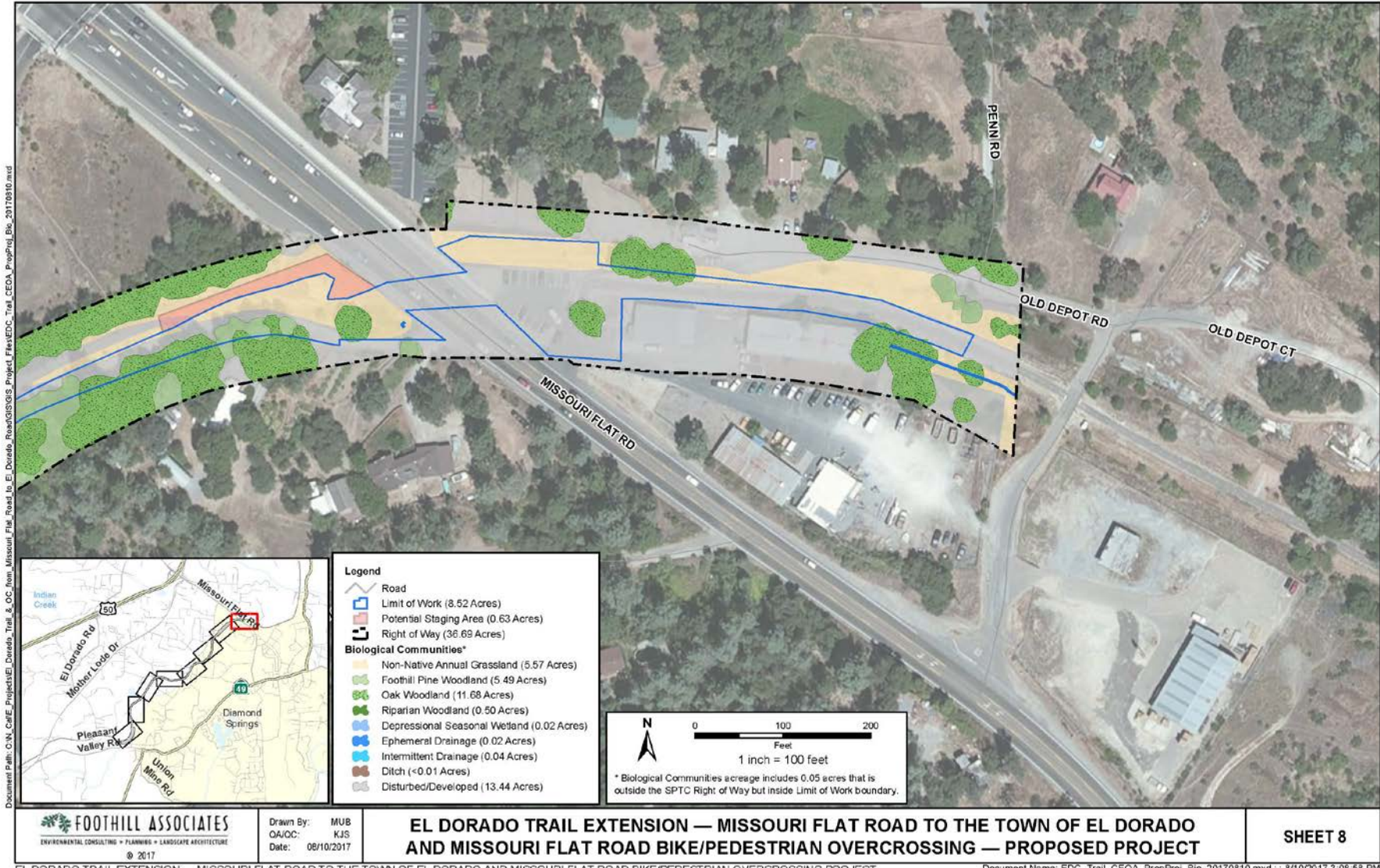


FIGURE 3. PHOTOGRAPH LOG





1 SPTC Right of Way, just west of Missouri Flat Road, looking northeast. Class 1 Trail would be built parallel to the existing railroad tracks to preserve the tracks.



2 SPTC Right of Way, midway between Missouri Flat Road and Forni Road, looking southwest. Class 1 Trail would be built parallel to the existing railroad tracks to preserve the tracks.



3 SPTC Right of Way, Forni Road Crossing, looking southwest. Roadway crossing would require safety features such as Pedestrian Hybrid Beacons (HAWK).



4 SPTC Right of Way, just west of Forni Road, looking southwest. Class 1 Trail would be built parallel to the existing railroad tracks on top of existing dirt trail which can be seen between the tree line.



5 SPTC Right of Way, midway between Forni Road and Blanchard Road, looking west. Class 1 Trail would be built parallel to tracks on top of existing dirt trail.



6 SPTC Right of Way, east of Blanchard Road on north side of tracks, looking west. Class 1 Trail would be built parallel to the existing railroad tracks on top of existing dirt trail which can be seen between the tree line.



- 7 SPTC Right of Way, on Blanchard Road, looking east. Class 1 Trail would be built parallel to the existing railroad tracks on the existing dirt trail left of the tracks.



- 8 SPTC Right of Way, west of Blanchard Road, looking southwest. Class 1 Trail would be built parallel to the existing railroad tracks to preserve the tracks.



9 SPTC Right of Way, half mile west of Blanchard Road, looking southwest. Class 1 Trail would be built on top of existing dirt trail.



10 SPTC Right of Way, Historic Bench Area, looking south. Class 1 Trail would be built parallel to the existing railroad tracks on top of existing dirt trail

FIGURE 4. PROJECT COST ESTIMATE

El Dorado County
 Department of Transportation
 EL DORADO TRAIL - MISSOURI FLAT TO EL DORADO
 60% COST ESTIMATE
 Estimate Date 1/16/2018

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	072007	Excavation Safety	LS	1	\$ 7,510.00	\$ 7,510.00
2	080050	Progress Schedule (Critical Path Method)	LS	1	\$ 2,000.00	\$ 2,000.00
3	120100	Traffic Control System	LS	1	\$ 30,000.00	\$ 30,000.00
4	130100	Job Site Management	LS	1	\$ 125,000.00	\$ 125,000.00
5	130300	Prepare Storm Water Pollution Prevention Plan	LS	1	\$ 3,000.00	\$ 3,000.00
6	130310	Rain Event Action Plan	EA	3	\$ 500.00	\$ 1,500.00
7	130320	Storm Water Sampling and Analysis Day	EA	20	\$ 500.00	\$ 10,000.00
8	130300	Storm Water Annual Report	EA	1	\$ 2,000.00	\$ 2,000.00
9	14900X	Prepare Fugitive Dust Plan	LS	1	\$ 2,000.00	\$ 2,000.00
10	160110	Temporary High-Visibility Fence	LF	7,000	\$ 7.25	\$ 50,750.00
11	170103	Clearing and Grubbing	LS	1	\$ 140,000.00	\$ 140,000.00
12	190101	Roadway Excavation	CY	3,650	\$ 85.00	\$ 310,250.00
13	190185	Shoulder Backing	CY	580	\$ 160.00	\$ 92,800.00
14	192037	Structure Excavation (Retaining Wall)	CY	750	\$ 90.00	\$ 67,500.00
15	193013	Structure Backfill (Retaining Wall)	CY	720	\$ 130.00	\$ 93,600.00
16	210280	Rolled Erosion Control Product (Blanket)	SQFT	35,000	\$ 0.70	\$ 24,500.00
17	210430	Hydroseed	ACRE	4.7	\$ 4,500.00	\$ 21,150.00
18	260203	Class 2 Aggregate Base	CY	1,200	\$ 120.00	\$ 144,000.00
19	390132	Hot Mix Asphalt (Type A)	TON	1,800	\$ 170.00	\$ 306,000.00
20	510060	Structural Concrete (Retaining Wall)	CY	290	\$ 1,250.00	\$ 362,500.00
21	56601X	Removable Center Bollard (Bike Path)	EA	8	\$ 450.00	\$ 3,600.00
22	56601X	Sign (Wood Post, Bike Path)	EA	20	\$ 150.00	\$ 3,000.00
23	641107	18" Plastic Pipe	LF	50	\$ 115.00	\$ 5,750.00
24	641113	24" Plastic Pipe	LF	50	\$ 125.00	\$ 6,250.00
25	641119	30" Plastic Pipe	LF	50	\$ 135.00	\$ 6,750.00
26	68028X	Subdrain System	LS	1	\$ 30,000.00	\$ 30,000.00
27	705204	18" Concrete Flared End Section	EA	1	\$ 3,000.00	\$ 3,000.00
28	705206	24" Concrete Flared End Section	EA	1	\$ 3,500.00	\$ 3,500.00
29	705208	30" Concrete Flared End Section	EA	3	\$ 4,000.00	\$ 12,000.00
30	70711X	Concrete Pipe Inlet (Type OCPI)	EA	4	\$ 5,000.00	\$ 20,000.00
31	721017	Rock Slope Protection (Facing, Method B)	CY	280	\$ 250.00	\$ 70,000.00
32	721028	Rock Slope Protection (No. 2, Method B)	CY	240	\$ 200.00	\$ 48,000.00
33	729011	Rock Slope Protection Fabric (Class 8)	SQYD	950	\$ 10.00	\$ 9,500.00

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
34	730010	Minor Concrete (Curb)	LF	60	\$ 75.00	\$ 4,500.00
35	7315XX	Minor Concrete (Bike Path)	CY	12	\$ 1,200.00	\$ 14,400.00
36	800001	Fence (Type BW, Metal Post)	LF	3,500	\$ 15.00	\$ 52,500.00
37	83308X	Bike Path Railing	LF	2,450	\$ 45.00	\$ 110,250.00
38	839521	Cable Railing	LF	500	\$ 35.00	\$ 17,500.00
39	840515	Thermoplastic Pavement Marking	SQFT	20	\$ 150.00	\$ 3,000.00
40	840656	Paint Traffic Stripe (2-Coat)	LF	11,600	\$ 3.00	\$ 34,800.00
41	840666	Paint Pavement Marking (2-Coat)	SQFT	50	\$ 120.00	\$ 6,000.00
42	870700	Flashing Beacon System	LS	1	\$ 100,000.00	\$ 100,000.00
43	999990	Mobilization	LS	1	\$ 236,000.00	\$ 236,000.00
SUBTOTAL:						\$ 2,596,360.00

CONTINGENCY & SUPPLEMENTAL COSTS (estimate 25%)	\$ 649,100.00
CONSTRUCTION MANAGEMENT (estimate 15%)	\$ 389,500.00
TOTAL ESTIMATED CONSTRUCTION COST	\$ 3,634,960.00

FIGURE 5. BOARD OF SUPERVISORS GRANT APPLICATION POLICY



**COUNTY OF EL DORADO, CALIFORNIA
BOARD OF SUPERVISORS POLICY**

Subject: GRANT APPLICATIONS	Policy Number A-6	Page Number: Page 1 of 2
	Date Adopted: 12/22/1987	Revised Date: 4/23/13

BACKGROUND:

The County receives financial assistance in the form of grants.

For the purposes of this policy, grants shall be defined as cash or in kind assistance awarded by a government or other organization (called the grantor) for specified purposes to an eligible recipient (called the grantee). Grants are usually conditional upon certain qualifications as to the use, maintenance of specified standards, or a proportional contribution by the grantee or other grantor(s).

The grant process may consist of several steps including a notice of intent to apply, application, acceptance of award, and execution of grant agreement and related documents. The purpose of this policy is to ensure flexibility and efficiency in the grant application process while maintaining the Board of Supervisors discretion over the acceptance of grant funding and any related obligations.

POLICY:

1. Authority
 - A. County department heads are authorized to execute all documents required to apply for grants.
 - B. The Board of Supervisors is the sole authority for accepting grant awards and approving grant agreements. After acceptance of a grant award and approval of the grant agreement, the Board may delegate authority to execute the grant agreement and other grant related documents.
2. Department Head Responsibilities
 - A. Department heads are expected to exercise good judgment when determining to spend staff time applying for a grant.
 - i. The grant should be directly related to the mission and vision of the department.
 - ii. Any county match requirements must be feasible and reasonable.



**COUNTY OF EL DORADO, CALIFORNIA
BOARD OF SUPERVISORS POLICY**

Subject: GRANT APPLICATIONS	Policy Number A-6	Page Number: Page 2 of 2
	Date Adopted: 12/22/1987	Revised Date: 4/23/13

- B. Department heads are required to communicate, document, and coordinate with any other county departments that may be involved with or affected by the grant program or project.
- C. Department heads are responsible for determining whether they are authorized to exercise the authority provided herein under the grantor's guidelines for each grant.
- D. Department heads are encouraged to seek assistance and guidance from the Chief Administrative Office in fulfilling the responsibilities listed above.

Primary Department: Chief Administrative Office

References: None

FIGURE 6. ACTIVE TRANSPORTATION PROGRAM AUGMENTATION -FINAL ADOPTED PROGRAM

2017 Active Transportation Program Augmentation - Statewide Component
Final Adopted
(\$1,000's)

Application ID	Co	Project Title	DAC	SOF	Total Project Cost	Recommended ATP Funding	17-18	18-19	19-20	20-21	CON	CON NI	PA&ED	PS&E	ROW	Project Type	SRTS	REC TR	Final Score
3-Citrus Heights-1	SAC	Citrus Heights Electric Greenway (Class 1 Multi-Use Trail)	X		7,015	5,866	0	311	5,555	0	5,525	30	0	246	65	Combination	X	X	84.00
3-El Dorado County-1	ED	El Dorado Trail - Missouri Flat Road to El Dorado	X	X	4,394	3,419	3,419	0	0	0	3,374	45	0	0	0	Combination		X	84.00
8-Riverside County Transportation Department-4	RIV	Clark Street SR25 Sidewalk and Intersection Safety Improvements	X	X	2,945	684	0	684	0	0	684	0	0	0	0	Infrastructure	X		84.00
10-Patterson-1	STA	Ninth Street Improvements	X	X	907	907	75	832	0	0	764	0	75	68	0	Infrastructure	X		84.00
6-Tulare County-8	TUL	County of Tulare: Earlimart Sidewalk Improvements	X	X	1,973	1,868	180	1,688	0	0	1,688	0	0	180	0	Combination	X		84.00
4-East Bay Regional Park District-2	ALA	Doolittle Drive Bay Trail, Martin Luther King Jr. Shoreline, Oakland	X	X	7,950	4,000	500	3,500	0	0	3,500	0	0	250	250	Infrastructure			83.00
3-Placerville-1	ED	Upper Broadway Pedestrian Connection	X	X	2,206	1,396	500	1,396	0	0	1,396	0	0	173	327	Infrastructure			83.00
8-Indio-1	RIV	Herbert Hoover Elementary Pedestrian Improvements	X		2,983	2,983	100	240	0	2,643	2,638	5	100	240	0	Combination	X		83.00
8-Hemet-1	RIV	Hemet Valley Bikeway Connect	X		2,288	2,288	0	200	2,088	0	1,990	98	0	200	0	Combination	X		83.00
8-Perris-1	RIV	Perris Valley Storm Drain Channel Trail - Phase 2	X		3,204	3,004	237	524	0	2,243	2,243	0	237	287	237	Infrastructure			83.00
5-Guadalupe-1	SB	Guadalupe Street (Hwy 1) Pedestrian Improvements	X	X	458	401	0	401	0	0	401	0	0	0	0	Infrastructure			83.00
4-Pittsburg-2	CC	Pittsburg Active Transportation and Safe Routes Plan (WalkBikePittsburg2035)	X	X	312	312	312	0	0	0	312	0	0	0	0	Plan			82.00
6-Fresno-4	FRE	Downtown Fresno Courthouse Park Interconnectivity Project	X	X	915	809	28	781	0	0	715	0	28	66	0	Infrastructure			82.00
7-Glendale-1	LA	Glendale Transportation Center 1st/Last Mile Regional Improvements Phase II	X	X	1,301	1,101	172	929	0	0	929	0	43	129	0	Infrastructure			82.00
7-Palmdale-1	LA	City of Palmdale - Civic Center Complete Streets	X		2,564	1,700	66	212	0	1,422	1,422	0	66	212	0	Infrastructure			82.00
7-Rosemead-1	LA	SR25 Sidewalk Gap Closure on Delta Avenue	X		1,175	1,100	0	0	1,100	0	1,100	0	0	0	0	Infrastructure	X		82.00
7-Santa Monica-2	LA	Active Aging - Safe Routes for Seniors		X	500	400	0	400	0	0	0	400	0	0	0	Non-Infrastructure			82.00
10-Angels Camp-1	CAL	Route 49 Sidewalk Infill and Bike Lanes, Angels Camp	X	X	1,985	1,985	165	1,820	0	0	1,820	0	0	0	165	Infrastructure	X		81.00
6-Kern County Road Department-2	KER	Virginia Street Pedestrian Path Project	X		2,456	2,173	22	420	0	1,731	1,731	0	22	354	66	Infrastructure	X		81.00
10-Merced County PW-2	MER	Plainsburg Road Complete Street Upgrade	X		1,688	1,671	76	200	0	1,395	1,351	44	76	200	0	Combination	X		81.00
5-Monterey County Resource Management Agency DPW-2	MON	Las Lomas Drive Bicycle Lane & Pedestrian Project	X		3,168	2,894	0	368	0	2,526	2,431	0	98	270	95	Infrastructure			81.00
3-Sacramento County-1	SAC	Folsom Boulevard Complete Street Improvements, Phase 1	X		5,001	4,180	532	176	3,472	0	3,472	0	0	532	176	Infrastructure			81.00
8-Big Bear Lake-1	SBD	Alpine Pedal Path Rainbow Creek Extension - Big Bear Lake	X	X	986	788	0	788	0	0	788	0	0	0	0	Infrastructure	X		81.00
8-Ontario-1	SBD	Sultana Elementary and De Anza Middle School Pedestrian Improvements	X		1,506	1,278	178	0	1,100	0	1,100	0	0	136	42	Infrastructure	X		81.00
6-Tulare County-1	TUL	Allensworth Elementary Sidewalk Improvements	X	X	313	260	0	260	0	0	260	0	0	0	0	Combination	X		81.00
7-Norwalk-1	LA	Alondra Active Transportation Improvement	X		973	963	12	138	0	813	813	0	12	138	0	Infrastructure			80.50
10-Sonoma-1	TUO	Red Church Pedestrian and Circulation Improvement	X	X	815	722	76	646	0	0	646	0	0	67	9	Infrastructure	X		80.50
7-Baldwin Park-3	LA	Walnut Creek-San Gabriel River East Bank Greenway & Neighborhood Connections	X		2,193	1,355	0	0	1,355	0	573	782	0	0	0	Combination			80.00
10-Merced County PW-1	MER	Delhi Community Pedestrian and Bike Connectivity Project	X		1,531	1,531	266	0	1,265	0	1,221	44	88	178	0	Combination	X		80.00

FIGURE 7. LETTERS OF SUPPORT

COUNTY OF EL DORADO

HEALTH & HUMAN SERVICES

Patricia Charles-Heathers, Ph.D., MPA
Director

3057 Briw Road, Suite B
Placerville, CA 95667
530-642-7300 Phone / 530-626-7734 Fax
3368 Lake Tahoe Boulevard, Suite 100
South Lake Tahoe, CA 96150
530-573-3200 Phone / 530-541-6736 Fax



BOARD OF SUPERVISORS

JOHN HIDAHL
District I
SHIVA FRENTZEN
District II
BRIAN K. VEERKAMP
District III
MICHAEL RANALLI
District IV
SUE NOVASEL
District V

January 16, 2018

Rafael Martinez, Director
El Dorado County Department of Transportation
2850 Fairlane Court
Placerville, CA 95667

**RE: El Dorado County Air Quality Management District, Motor Vehicle Emission Reduction
Projects 2018 & 2019 Grant Application
El Dorado Trail Extension from Missouri Flat Road to El Dorado Road**

Dear Mr. Martinez,

I am writing this letter in support of the El Dorado County Air Quality Management District Motor Vehicle Emission Reduction Projects 2018 & 2019 Grant Application that El Dorado County Department of Transportation is submitting for the El Dorado Trail Extension from Missouri Flat Road to El Dorado Road Project.

This new section of trail will connect the town of El Dorado with the existing El Dorado Trail to the east, and provide a safe route to school for Herbert Green Middle School students as well as Union Mine High School students. The trail will allow commuters, students, pedestrians and cyclists who travel on Forni Road a safer alternative than sharing the road with busy motor vehicle traffic. It will provide residents in El Dorado, Diamond Springs and Placerville with a pedestrian/bike path to major employment centers such as El Dorado County and the City of Placerville. The trail also connects to medical facilities, transit and retail and commercial centers. The trail extension increases transportation options, helps reduce carbon emissions, and provides health benefits to community members.

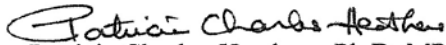
Listed as a priority project in the County's 2010 Bicycle Transportation Plan, this project provides an important link for the El Dorado Trail, which will ultimately stretch from Sacramento to Lake Tahoe. Given the proximity of the Trail to the Diamond Springs and El Dorado communities, completion of this portion of trail will be very beneficial to a large variety of users and meet the goals of the grant by reducing vehicle emissions.

Vision Statement:
Transforming Lives and Improving Futures

Letter of Support
01/16/2018
Page 2 of 2

Funding of this trail extension project will help increase non-motorized transportation, reduce traffic congestion, and improve air quality for the residents of El Dorado County. Thank you for the opportunity to support this project and grant application.

Sincerely,


Patricia Charles-Heathers, Ph.D. MPA
Director

Committee Members

Carl Hillendahl
Joann Horton
Larry Patterson
Randy Pesses
Erik Peterson
Bob Smart
Meredith Stirling



DIAMOND SPRINGS AND EL DORADO
COMMUNITY
ADVISORY COMMITTEE
4520 Lon Court
Diamond Springs, CA 95619

January 14, 2018

Rafael Martinez, Director
El Dorado County Department of Transportation
2850 Fairlane Court
Placerville, CA 95667

**RE: El Dorado County Air Quality Management District, Motor Vehicle Emission Reduction Projects 2018 & 2019 Grant Application
El Dorado Trail Extension from Missouri Flat Road to El Dorado Road**

Dear Mr. Martinez,

The Diamond Springs-El Dorado Community Advisory Committee fully supports the El Dorado County Air Quality Management District Motor Vehicle Emission Reduction Projects 2018 & 2019 Grant Application that El Dorado County Department of Transportation is submitting for the El Dorado Trail Extension from Missouri Flat Road to El Dorado Road Project.

This new section of trail will connect the town of El Dorado with the existing El Dorado Trail to the east, and provide a safe route to school for Herbert Green Middle School students as well as Union Mine High School students. The trail will allow commuters, students, pedestrians and cyclists who travel on Forni and Pleasant Valley Roads a safer alternative than sharing the road with busy motor vehicle traffic. It will provide residents in El Dorado, Diamond Springs and Placerville with a pedestrian/bike path to major employment centers such as El Dorado County and the City of Placerville. The trail also connects to medical facilities, transit and retail and commercial centers. The trail extension increases transportation options, helps reduce carbon emissions, and provides health benefits to community members.

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Funding of this trail extension project will help increase non-motorized transportation, reduce traffic congestion, and improve air quality for the residents of El Dorado County. Thank you for the opportunity to support this project and grant application.

Sincerely,

Robert A. Smart, Jr
Chairperson



2828 Easy Street Suite 1, Placerville, CA 95667 | 530.642.5260 | www.edctc.org

January 16, 2018

Rafael Martinez, Director
El Dorado County Department of Transportation
2850 Fairlane Court
Placerville, CA 95667

**RE: El Dorado County Air Quality Management District, Motor Vehicle Emission Reduction Projects 2018 & 2019 Grant Application
El Dorado Trail Extension from Missouri Flat Road to El Dorado Road**

Dear Mr. Martinez,

I am writing in support of the El Dorado County Air Quality Management District Motor Vehicle Emission Reduction Projects 2018 & 2019 Grant Application that El Dorado County Department of Transportation is submitting for the El Dorado Trail Extension from Missouri Flat Road to El Dorado Road Project.

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Funding of this trail extension project will help increase non-motorized transportation and improve air quality for the residents of El Dorado County.

Sincerely,

A handwritten signature in black ink, appearing to read "Woodrow Deloria", is written over the typed name.

Woodrow Deloria
Executive Director



MOTHER LODGE UNION School District

3783 Forni Road * Placerville CA 95667 * (530) 622-6464 * Fax (530) 622-6163

Marcy M. Guthrie Ed.D., Superintendent

Board of Trustees

Janet VanderLinden, President

Cathy Wilson., Clerk

Gene Bist Sr., Member

John Parker, Member

Chuck Wolfe, Member

January 18, 2018

Rafael Martinez, Director
El Dorado County Department of Transportation
2850 Fairlane Court
Placerville, CA 95667

**RE: El Dorado County Air Quality Management District, Motor Vehicle Emission Reduction Projects
2018 & 2019 Grant Application
El Dorado Trail Extension from Missouri Flat Road to El Dorado Road**

Dear Mr. Martinez,

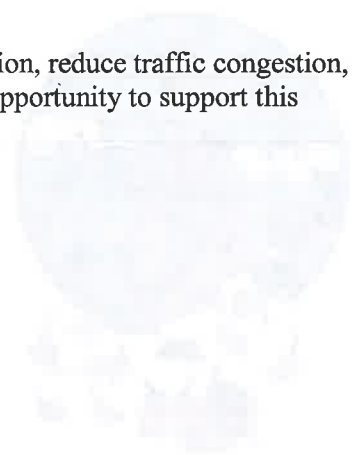
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Listed as a priority project in the County's 2010 Bicycle Transportation Plan, this project provides an important link for the El Dorado Trail, which will ultimately stretch from Sacramento to Lake Tahoe. Given the proximity of the Trail to the Diamond Springs and El Dorado communities, completion of this portion of trail will be very beneficial to a large variety of users and meet the goals of the grant by reducing vehicle emissions.

The Mission of the Mother Lode Union School District is the successful education of every student.

Funding of this trail extension project will help increase non-motorized transportation, reduce traffic congestion, and improve air quality for the residents of El Dorado County. Thank you for the opportunity to support this project and grant application.



Sincerely,

Dr. Marcy Guthrie