

# Appendix H

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## Cost Estimate





# Detailed Engineer's Estimate and Total Project Costs

**Important: Read the Instructions in the first sheet (tab) before entering data. Do not enter data in shaded fields (with formulas).**

## Project Information:

Agency:	City of Chico	Date:	
Project Description:	Esplanade Corridor Safety and Accessibility Improvements		
Project Location:	Esplanade from 11th Avenue to Memorial Way		
Licensed Engineer in responsible charge of preparing or reviewing this PSR-Equivalent Cost Estimate:	Brendan Ottoboni	License #:	C81916

## Engineer's Estimate and Cost Breakdown:

Engineer's Estimate (for Construction Items Only)							Cost Breakdown					
Item No.	Item	F, D or M	Quantity	Units	Unit Cost	Total Item Cost	ATP Eligible Costs/Items		ATP Ineligible Costs/Items		Corps/CCC to construct	
							%	\$	%	\$	%	\$
<b>General Overhead-Related Construction Items</b>												
1	Mobilization		1	LS	\$30,000.00	\$30,000	100%	\$30,000				
2	Traffic Control		1	LS	\$80,000.00	\$80,000	100%	\$80,000				
3	Stormwater Protection Plan		1	LS	\$10,000.00	\$10,000	100%	\$10,000				
4	Construction Layout & Staking		1	LS	\$40,000.00	\$40,000	100%	\$40,000				
<b>General Construction Items (non-decorative only)</b>												
5	Clearing and Grubbing		1	LS	\$10,000.00	\$10,000	100%	\$10,000				
6	Erosion Control		1	LS	\$50,000.00	\$50,000	100%	\$50,000				
7	Concrete Removals		16100	SF	\$3.00	\$48,300	100%	\$48,300				
8	Tree Removal		32	EA	\$750.00	\$24,000	100%	\$24,000				
9	Sign Removals		20	EA	\$50.00	\$1,000	100%	\$1,000				
10	New Curb Ramps		70	EA	\$3,000.00	\$210,000	100%	\$210,000				
11	Pedestrian Median Cuts		90	EA	\$6,000.00	\$540,000	100%	\$540,000				
12	City Std Curb & Gutter		4200	LF	\$50.00	\$210,000	100%	\$210,000				
13	City Std Sidewalk		20700	SF	\$12.00	\$248,400	100%	\$248,400				
14	Class IV Bike (non AC, per int)		15	EA	\$15,000.00	\$225,000	100%	\$225,000				
15	Aggregate Base (Class IV)		1500	TN	\$45.00	\$67,500	100%	\$67,500				
16	Hot Mix Asphalt (mic Patchback) - Class IV		330	TN	\$130.00	\$42,900	100%	\$42,900				
17	Hot Mix Asphalt - Class IV		745	TN	\$110.00	\$81,950	100%	\$81,950				
18	Striping & Bike Lane Treatment		1	LS	\$150,000.00	\$150,000	100%	\$150,000				
19	Class III Sharrows and Signs		12400	LF	\$3.00	\$37,200	100%	\$37,200				
20	Surface Treatment		330000	SF	\$0.27	\$89,100	100%	\$89,100				
21	Ped Signals and Detection (per int)		8	EA	\$40,000.00	\$320,000	100%	\$320,000				
22	Traffic Signals (Intersection New)		2	EA	\$220,000.00	\$440,000	100%	\$440,000				
23	Minor Lighting (Path)		1	LS	\$120,000.00	\$120,000	100%	\$120,000				
24	Construct Roundabout		1	LS	\$500,000.00	\$500,000	100%	\$500,000				
25	Pathway Railing		5770	LF	\$100.00	\$577,000	100%	\$577,000				
26	Signs (1 and 2 post)		60	EA	\$300.00	\$18,000	100%	\$18,000				
27	Bollards		60	EA	\$500.00	\$30,000	100%	\$30,000				
<b>Decorative &amp; Landscaping-related Items (Label items as "F" for Functional, "D" for Decorative, or "M" for a mix of Decorative and Functional)</b>												
28	Trees		32	EA	\$1,000.00	\$32,000	100%	\$32,000				
29	Shrubs/groundcover		27000	SQFT	\$10.00	\$270,000	100%	\$270,000				
30	Irrigation / Water Connection		1	LS	\$60,000.00	\$60,000	100%	\$60,000				
31	Landscaping		1	LS	\$160,000.00	\$160,000	100%	\$160,000				
32	Trash Receptacles		10	EA	\$2,000.00	\$20,000	100%	\$20,000				
<b>Subtotal of Construction Items:</b>							<b>\$4,742,350</b>		<b>\$4,742,350</b>			
									\$237,118 <= 5% of eligible CON costs (max. decorative, if applicable)			
<b>Construction Item Contingencies (% of Construction Items):</b>					<b>5.00%</b>	<b>\$258,233</b>		<b>\$258,233</b>				
<b>Total (Construction Items &amp; Contingencies) cost:</b>							<b>\$5,422,888</b>		<b>\$5,422,888</b>			

## Project Delivery Costs:

Type of Project Cost	Cost \$	ATP Eligible Costs	Non-participating Costs	
<b>Preliminary Engineering (PE)</b>				
Environmental Studies and Permits(PA&ED):	\$ 350,000	\$350,000		
Plans, Specifications and Estimates (PS&E):	\$ 1,005,000	\$1,005,000		"PE" costs / "CON" costs
<b>Total PE:</b>	<b>\$ 1,355,000</b>	<b>\$1,355,000</b>		<b>25%</b> <b>25% Max</b>
<b>Right of Way (RW)</b>				
Right of Way Engineering:	\$ 20,000	\$20,000		
Acquisitions and Utilities:	\$ 50,000	\$50,000		
<b>Total RW:</b>	<b>\$ 70,000</b>	<b>\$70,000</b>		
<b>Construction Engineering (CE)</b>				
Construction Engineering (CE):	\$ 813,000	\$813,000		"CE" costs / "CON" costs
<b>Total Project Delivery:</b>	<b>\$2,238,000</b>	<b>\$2,238,000</b>		<b>15%</b> <b>15% Max</b>
<b>Sub-Total Construction Costs:</b>		<b>\$6,235,888</b>		
<b>Annual Construction Cost Index Escalations (2.5% per year):</b>		<b>\$ 422,305.00</b>		
<b>Total Project Cost:</b>		<b>\$7,660,888</b>	<b>\$7,660,888</b>	

## Detailed Engineer's Estimate and Total Project Costs

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### Project Information:

<b>Agency:</b>	City of Chico	<b>Date:</b>	
<b>Project Description:</b>	Esplanade Corridor Safety and Accessibility Improvements		
<b>Project Location:</b>	Esplanade from 11th Avenue to Memorial Way		
<b>Licensed Engineer in responsible charge of preparing or reviewing this PSR-Equivalent Cost Estimate:</b>	Brendan Ottoboni	<b>License #:</b>	C81916

### Documentation of Ineligible (Non-Participating) Costs:

The Engineer's logic and/or calculations for splitting costs between ATP-Eligible and Non-participating costs must be documented in this section of the Estimate form.  
Separate logic is required for each construction item listed above which is partly ineligible for ATP funding or is required for the construction of an ineligible item/element of the project.

Item Number(s):	Description of Engineer's Logic: <span style="color: red;">(See examples shown in the Instructions)</span>