Neighborhood Bikeways Cost Estimate	Project Number: Subaccount:
12th Avenue and Garfield Street: Completed as one project	Prepared By: R. Plenge

CONSTRUCTION BID ITEMS						
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT	Column1
	Removal of Concrete Sidewalk	SY	927	$35.00	$32,400.00	CCD: $9/ SY
	Removal of Median	SY	315	$35.00	$11,000.00	
	Removal of Curb and Gutter	LF	1,670	$25.00	$41,800.00	CCD: $6/ LF
	Removal of Curb Ramp	EACH	9	$240.00	$2,200.00	
	ADA Curb Ramp (Includes Removal of Existing)	EACH	55	$7,000.00	$385,000.00	
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	19	$12,000.00	$228,000.00	
	Curb and Gutter	LF	2,210	$60.00	$132,600.00	
	Sidewalk/Trail	SY	2,135	$60.00	$128,100.00	CCD: $33/ SY
	Median Cover Material (Concrete)	SY	640	$30.00	$19,200.00	CCD: $36/ SY
	Traffic Signal (Complete in Place)	EACH	2	$350,000.00	$700,000.00	
	Traffic Signal 3 Mast Arms (Complete in Place)	EACH	1	$262,500.00	$262,500.00	
	Traffic Signal 2 Mast Arms (Complete in Place)	EACH	3	$175,000.00	$525,000.00	
	Bicycle Signal Head	EACH	12	$1,500.00	$18,000.00	
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	3	$40,000.00	$120,000.00	
	HAWK Signal	EACH	1	$120,000.00	$120,000.00	
	Cycle Track Bollards	EACH	15	$75.00	$1,100.00	
	Sodding	SF	6,000	$1.50	$9,000.00	
	Trees	EACH	10	$1,000.00	$10,000.00	
	Traffic Circle	EACH	11	$17,000.00	$187,000.00	
CONSTRUCTION BID ITEMS TOTAL					$2,932,900.00	Unit Prices reflect 30% increa

COST SUMMARY				
Item	% Range	% Used	Cost	
Project Construction Bid Items	----------	--------	$2,932,900.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$733,200.00	(B) Used higher 30% conting
SWMP	(1%) of (A+B)	1.0%	$36,700.00	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$366,600.00	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$183,300.00	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$425,300.00	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$327,500.00	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$5,005,500.00**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$50,100.00	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$50,100.00	(J)
Subtotal of Construction Cost (H+I+J)	**--------**	**-------**	**$5,105,700.00**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$1,128,400.00	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$612,700.00	(M) - Assumes PS&E and NEF
Right-of-way	Enter $ amount	-------	$0.00	(N)
Other	(1%-3%) of (H)	1.0%	$50,100.00	(O)
12th Avenue Intersections			**$2,182,300.00**	**12th v**

Neighborhood Bikeways Cost Estimate	Project Number: Subaccount:
17th Avenue and Garfield Street	Prepared By: R. Plenge

CONSTRUCTION BID ITEMS					
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
	Removal of Concrete Sidewalk	SY	0.00	$35.00	$0.00
	Removal of Median	SY	0.00	$35.00	$0.00
	Removal of Curb and Gutter	LF	0.00	$25.00	$0.00
	Removal of Curb Ramp	EACH	0.00	$240.00	$0.00
	ADA Curb Ramp (Includes Removal of Existing)	EACH	4	$7,000.00	$28,000.00
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	2	$12,000.00	$24,000.00
	Curb and Gutter	LF	250.00	$60.00	$15,000.00
	Sidewalk/Trail	SY	250.00	$60.00	$15,000.00
	Median Cover Material (Concrete)	SY	130	$30.00	$3,900.00
	Traffic Signal 2 Mast Arms (Complete in Place)	EACH	1	$262,500.00	$262,500.00
	Bicycle Signal Head	EACH	2.00	$1,500.00	$3,000.00
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	0	$40,000.00	$0.00
	Cycle Track Bollards	EACH	0	$75.00	$0.00
	Traffic Circle	EACH	0	$17,000.00	$0.00
	Sodding	SF	800	$1.50	$1,200.00
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CONSTRUCTION BID ITEMS TOTAL					$352,600.00

Unit Pric

COST SUMMARY				
Item	% Range	% Used	Cost	
Project Construction Bid Items	----------	--------	$352,600.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$88,150.00	(B) Use
SWMP	(1%) of (A+B)	1.0%	$4,407.50	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$44,075.00	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$22,037.50	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$51,127.00	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$39,367.79	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$601,764.79**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$6,017.65	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$6,017.65	(J)
Subtotal of Construction Cost (H+I+J)	**--------**	**-------**	**$613,800.09**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$135,649.82	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$73,656.01	(M) - A
Right-of-way	Enter $ amount	-------	$0.00	(N) - A
Other	(1%-3%) of (H)	1.0%	$6,017.65	(O)
TOTAL PROJECT COST			$829,123.56	(P)

Neighborhood Bikeways Cost Estimate	Project Number: Subaccount:
Colfax Avenue and Garfield Street	Prepared By: R. Plenge

CONSTRUCTION BID ITEMS

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
	Removal of Concrete Sidewalk	SY	0	$35.00	$0.00
	Removal of Median	SY	0	$35.00	$0.00
	Removal of Curb and Gutter	LF	0	$25.00	$0.00
	Removal of Curb Ramp	EACH	6	$240.00	$1,440.00
	ADA Curb Ramp (Includes Removal of Existing)	EACH	6	$7,000.00	$42,000.00
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	0	$12,000.00	$0.00
	Curb and Gutter	LF	0	$60.00	$0.00
	Sidewalk/Trail	SY	0	$60.00	$0.00
	Median Cover Material (Concrete)	SY	0	$30.00	$0.00
	Video Detection System	EACH	2	$7,000.00	$14,000.00
	Bicycle Signal Head	EACH	2	$1,500.00	$3,000.00
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	0	$40,000.00	$0.00
	Cycle Track Bollards	EACH	0	$75.00	$0.00
	Traffic Circle	EACH	0	$17,000.00	$0.00
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	CONSTRUCTION BID ITEMS TOTAL				**$60,440.00**

Unit Prices

COST SUMMARY

Item	% Range	% Used	Cost	
Project Construction Bid Items	----------	--------	$60,440.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$15,110.00	(B) Used
SWMP	(1%) of (A+B)	1.0%	$755.50	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$7,555.00	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$3,777.50	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$8,763.80	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$6,748.13	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$103,149.93**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$1,031.50	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$1,031.50	(J)
Subtotal of Construction Cost (H+I+J)	--------	**-------**	**$105,212.92**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$23,252.06	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$12,625.55	(M) - Assu
Right-of-way	Enter $ amount	-------	$0.00	(N) - Assu
Other	(1%-3%) of (H)	1.0%	$1,031.50	(O)
TOTAL PROJECT COST			**$142,122.03**	(P)

Neighborhood Bikeways Cost Estimate	Project Number: Subaccount:
6th Avenue and Garfield Street	Prepared By: R. Plenge

CONSTRUCTION BID ITEMS

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
	Removal of Concrete Sidewalk	SY	130.00	$35.00	$4,550.00
	Removal of Median	SY	0.00	$35.00	$0.00
	Removal of Curb and Gutter	LF	100.00	$25.00	$2,500.00
	Removal of Curb Ramp	EACH	0.00	$240.00	$0.00
	ADA Curb Ramp (Includes Removal of Existing)	EACH	8	$7,000.00	$56,000.00
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	1	$12,000.00	$12,000.00
	Curb and Gutter	LF	0.00	$60.00	$0.00
	Sidewalk/Trail	SY	130.00	$60.00	$7,800.00
	Median Cover Material (Concrete)	SY	0	$30.00	$0.00
	Traffic Signal 2 Mast Arms (Complete in Place)	EACH	1	$175,000.00	$175,000.00
	Bicycle Signal Head	EACH	2.00	$1,500.00	$3,000.00
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	0	$40,000.00	$0.00
	Cycle Track Bollards	EACH	0	$75.00	$0.00
	Traffic Circle	EACH	0	$17,000.00	$0.00
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	CONSTRUCTION BID ITEMS TOTAL				**$260,850.00**

Unit Pri

COST SUMMARY

Item	% Range	% Used	Cost	
Project Construction Bid Items	----------	--------	$260,850.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$65,212.50	(B) Us
SWMP	(1%) of (A+B)	1.0%	$3,260.63	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$32,606.25	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$16,303.13	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$37,823.25	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$29,123.90	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$445,179.65**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$4,451.80	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$4,451.80	(J)
Subtotal of Construction Cost (H+I+J)	**--------**	**-------**	**$454,083.25**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$100,352.40	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$54,489.99	(M) - A
Right-of-way	Enter $ amount	-------	$0.00	(N) - A
Other	(1%-3%) of (H)	1.0%	$4,451.80	(O)
TOTAL PROJECT COST			**$613,377.43**	(P)

Neighborhood Bikeways Cost Estimate	**Project Number:** **Subaccount:**
1st Avenue and Garfield Street	**Prepared By:** **R. Plenge**

CONSTRUCTION BID ITEMS						
ITEM NO.	**ITEM DESCRIPTION**	**UNIT**	**QUANTITY**	**PRICE**	**AMOUNT**	
	Removal of Concrete Sidewalk	SY	0.00	$35.00	$0.00	
	Removal of Median	SY	0.00	$35.00	$0.00	
	Removal of Curb and Gutter	LF	0.00	$25.00	$0.00	
	Removal of Curb Ramp	EACH	0.00	$240.00	$0.00	
	ADA Curb Ramp (Includes Removal of Existing)	EACH	6	$7,000.00	$42,000.00	
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	0	$12,000.00	$0.00	
	Curb and Gutter	LF	0.00	$60.00	$0.00	
	Sidewalk/Trail	SY	0.00	$60.00	$0.00	
	Median Cover Material (Concrete)	SY	0	$30.00	$0.00	
	Traffic Signal (Complete in Place)	EACH	1	$350,000.00	$350,000.00	
	Bicycle Signal Head	EACH	2.00	$1,500.00	$3,000.00	
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	0	$40,000.00	$0.00	
	Cycle Track Bollards	EACH	0	$75.00	$0.00	
	Traffic Circle	EACH	0	$17,000.00	$0.00	
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CONSTRUCTION BID ITEMS TOTAL					**$395,000.00**	Unit Prices re

COST SUMMARY				
Item	**% Range**	**% Used**	**Cost**	
Project Construction Bid Items	----------	--------	$395,000.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$98,750.00	(B) Used hi
SWMP	(1%) of (A+B)	1.0%	$4,937.50	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$49,375.00	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$24,687.50	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$57,275.00	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$44,101.75	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$674,126.75**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$6,741.27	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$6,741.27	(J)
Subtotal of Construction Cost (H+I+J)	--------	**-------**	**$687,609.29**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$151,961.65	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$82,513.11	(M) - Assum
Right-of-way	Enter $ amount	-------	$0.00	(N) - Assum
Other	(1%-3%) of (H)	1.0%	$6,741.27	(O)
TOTAL PROJECT COST			**$928,825.32**	(P)

Neighborhood Bikeways Cost Estimate	**Project Number:** **Subaccount:**
Bayaud Avenue and Garfield Street	**Prepared By:** **R. Plenge**

CONSTRUCTION BID ITEMS						
ITEM NO.	**ITEM DESCRIPTION**	**UNIT**	**QUANTITY**	**PRICE**	**AMOUNT**	
	Removal of Concrete Sidewalk	SY	0.00	$35.00	$0.00	
	Removal of Median	SY	0.00	$35.00	$0.00	
	Removal of Curb and Gutter	LF	300.00	$25.00	$7,500.00	
	Removal of Curb Ramp	EACH	0.00	$240.00	$0.00	
	ADA Curb Ramp (Includes Removal of Existing)	EACH	0	$7,000.00	$0.00	
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	8	$12,000.00	$96,000.00	
	Curb and Gutter	LF	160.00	$60.00	$9,600.00	
	Sidewalk/Trail	SY	480.00	$60.00	$28,800.00	
	Median Cover Material (Concrete)	SY	0	$30.00	$0.00	
	Traffic Signal (Complete in Place)	EACH	0	$350,000.00	$0.00	
	Bicycle Signal Head	EACH	0.00	$1,500.00	$0.00	
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	0	$40,000.00	$0.00	
	Cycle Track Bollards	EACH	0	$75.00	$0.00	
	Traffic Circle	EACH	0	$17,000.00	$0.00	
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CONSTRUCTION BID ITEMS TOTAL					**$141,900.00**	Unit Prices re

COST SUMMARY				
Item	**% Range**	**% Used**	**Cost**	
Project Construction Bid Items	----------	--------	$141,900.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$35,475.00	(B) Used hi
SWMP	(1%) of (A+B)	1.0%	$1,773.75	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$17,737.50	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$8,868.75	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$20,575.50	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$15,843.14	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$242,173.64**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$2,421.74	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$2,421.74	(J)
Subtotal of Construction Cost (H+I+J)	--------	**-------**	**$247,017.11**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$54,590.78	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$29,642.05	(M) - Assum
Right-of-way	Enter $ amount	-------	$0.00	(N) - Assum
Other	(1%-3%) of (H)	1.0%	$2,421.74	(O)
TOTAL PROJECT COST			**$333,671.68**	(P)

Neighborhood Bikeways Cost Estimate	Project Number: Subaccount:
Alameda Avenue and Garfield Street	Prepared By: R. Plenge

CONSTRUCTION BID ITEMS					
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
	Removal of Concrete Sidewalk	SY	55	$35.00	$1,925.00
	Removal of Median	SY	75	$35.00	$2,625.00
	Removal of Curb and Gutter	LF	220	$25.00	$5,500.00
	Removal of Curb Ramp	EACH	0	$240.00	$0.00
	ADA Curb Ramp (Includes Removal of Existing)	EACH	6	$7,000.00	$42,000.00
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	2	$12,000.00	$24,000.00
	Curb and Gutter	LF	220	$60.00	$13,200.00
	Sidewalk/Trail	SY	55	$60.00	$3,300.00
	Median Cover Material (Concrete)	SY	70	$30.00	$2,100.00
	Traffic Signal (Complete in Place)	EACH	1	$350,000.00	$350,000.00
	Bicycle Signal Head	EACH	2	$1,500.00	$3,000.00
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	0	$40,000.00	$0.00
	Cycle Track Bollards	EACH	0	$75.00	$0.00
	Traffic Circle	EACH	0	$17,000.00	$0.00
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CONSTRUCTION BID ITEMS TOTAL					$447,650.00

Unit Prices reflect

COST SUMMARY				
Item	% Range	% Used	Cost	
Project Construction Bid Items	----------	--------	$447,650.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$111,912.50	(B) Used higher 3
SWMP	(1%) of (A+B)	1.0%	$5,595.63	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$55,956.25	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$27,978.13	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$64,909.25	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$49,980.12	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$763,981.87**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$7,639.82	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$7,639.82	(J)
Subtotal of Construction Cost (H+I+J)	--------	**-------**	**$779,261.51**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$172,216.79	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$93,511.38	(M) - Assumes PS
Right-of-way	Enter $ amount	-------	$0.00	(N) - Assumes Cle
Other	(1%-3%) of (H)	1.0%	$7,639.82	(O)
TOTAL PROJECT COST			**$1,052,629.50**	(P)

Neighborhood Bikeways Cost Estimate	Project Number: Subaccount:
Dakota Avenue/ Cherry Creek North Drive and Garfield Street	Prepared By: R. Plenge

CONSTRUCTION BID ITEMS

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT	
	Removal of Concrete Sidewalk	SY	0	$35.00	$0.00	
	Removal of Median	SY	40	$35.00	$1,400.00	
	Removal of Curb and Gutter	LF	300	$25.00	$7,500.00	
	Removal of Curb Ramp	EACH	3	$240.00	$720.00	
	ADA Curb Ramp (Includes Removal of Existing)	EACH	3	$7,000.00	$21,000.00	
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	2	$12,000.00	$24,000.00	
	Curb and Gutter	LF	200	$60.00	$12,000.00	
	Sidewalk/Trail	SY	300	$60.00	$18,000.00	
	Median Cover Material (Concrete)	SY	50	$30.00	$1,500.00	
	Traffic Signal (Complete in Place)	EACH	0	$350,000.00	$0.00	
	Bicycle Signal Head	EACH	0	$1,500.00	$0.00	
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	1	$40,000.00	$40,000.00	
	Cycle Track Bollards	EACH	15	$75.00	$1,125.00	
	Traffic Circle	EACH	0	$17,000.00	$0.00	
	Sodding	SF	100	$1.50	$150.00	
	Landscaping Trees	EACH	6	$1,000.00	$6,000.00	
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CONSTRUCTION BID ITEMS TOTAL					**$133,395.00**	Unit Prices reflect 30% increa

COST SUMMARY

Item	% Range	% Used	Cost	
Project Construction Bid Items	----------	--------	$133,395.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$33,348.75	(B) Used higher 30% conting
SWMP	(1%) of (A+B)	1.0%	$1,667.44	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$16,674.38	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$8,337.19	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$19,342.28	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$14,893.55	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$227,658.58**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$2,276.59	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$2,276.59	(J)
Subtotal of Construction Cost (H+I+J)	**--------**	**-------**	**$232,211.75**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$51,318.80	(L)
Total Engineering including NEPA/Survey	(24%) of (K)	24.0%	$55,730.82	(M) - Assumes PS&E and NEP
Right-of-way	Enter $ amount	-------	$0.00	(N) - Assumes Clear Creek C
Other	(1%-3%) of (H)	1.0%	$2,276.59	(O)
TOTAL PROJECT COST			**$341,537.95**	(P)

Neighborhood Bikeways Cost Estimate	**Project Number:** **Subaccount:**
Colorado Boulevard and 12th Avenue	**Prepared By:** **R. Plenge**

CONSTRUCTION BID ITEMS					
ITEM NO.	**ITEM DESCRIPTION**	**UNIT**	**QUANTITY**	**PRICE**	**AMOUNT**
	Removal of Concrete Sidewalk	SY	226.67	$35.00	$7,933.33
	Removal of Median	SY	200.00	$35.00	$7,000.00
	Removal of Curb and Gutter	LF	750.00	$25.00	$18,750.00
	Removal of Curb Ramp	EACH	0.00	$240.00	$0.00
	ADA Curb Ramp (Includes Removal of Existing)	EACH	4	$7,000.00	$28,000.00
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	0	$12,000.00	$0.00
	Curb and Gutter	LF	850.00	$60.00	$51,000.00
	Sidewalk/Trail	SY	600.00	$60.00	$36,000.00
	Median Cover Material (Concrete)	SY	190	$30.00	$5,700.00
	Traffic Signal (Complete in Place)	EACH	0	$350,000.00	$0.00
	Bicycle Signal Head	EACH	2.00	$1,500.00	$3,000.00
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	0	$40,000.00	$0.00
	Cycle Track Bollards	EACH	0	$75.00	$0.00
	Traffic Circle	EACH	0	$17,000.00	$0.00
	Sodding	SF	4,100	$1.50	$6,150.00
	Landscaping Trees	EACH	4	$1,000.00	$4,000.00
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CONSTRUCTION BID ITEMS TOTAL					**$167,533.33**

Unit Prices refl

COST SUMMARY				
Item	**% Range**	**% Used**	**Cost**	
Project Construction Bid Items	----------	--------	$167,533.33	(A)
Contingencies	(15%-30%) of (A)	25.0%	$41,883.33	(B) Used high
SWMP	(1%) of (A+B)	1.0%	$2,094.17	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$20,941.67	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$10,470.83	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$24,292.33	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$18,705.10	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$285,920.76**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$2,859.21	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$2,859.21	(J)
Subtotal of Construction Cost (H+I+J)	--------	**-------**	**$291,639.18**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$64,452.26	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$34,996.70	(M) - Assumes
Right-of-way	Enter $ amount	-------	$0.00	(N) - Assumes
Other	(1%-3%) of (H)	1.0%	$2,859.21	(O)
TOTAL PROJECT COST			**$393,947.35**	(P)

Neighborhood Bikeways Cost Estimate	Project Number: Subaccount:
Monaco Parkway and 12th Avenue	Prepared By: R. Plenge

CONSTRUCTION BID ITEMS						
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT	
	Removal of Concrete Sidewalk	SY	275.00	$35.00	$9,625.00	
	Removal of Median	SY	0.00	$35.00	$0.00	
	Removal of Curb and Gutter	LF	0.00	$25.00	$0.00	
	Removal of Curb Ramp	EACH	0.00	$240.00	$0.00	
	ADA Curb Ramp (Includes Removal of Existing)	EACH	6	$7,000.00	$42,000.00	
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	0	$12,000.00	$0.00	
	Curb and Gutter	LF	50.00	$60.00	$3,000.00	
	Sidewalk/Trail	SY	320.00	$60.00	$19,200.00	
	Median Cover Material (Concrete)	SY	0	$30.00	$0.00	
	Traffic Signal 2 Mast Arms (Complete in Place)	EACH	2	$175,000.00	$350,000.00	
	Bicycle Signal Head	EACH	0.00	$1,500.00	$0.00	
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	0	$40,000.00	$0.00	
	Cycle Track Bollards	EACH	0	$75.00	$0.00	
	Traffic Circle	EACH	0	$17,000.00	$0.00	
	Sodding	SF	1,000	$1.50	$1,500.00	
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CONSTRUCTION BID ITEMS TOTAL					$425,325.00	Unit Prices refl

COST SUMMARY				
Item	% Range	% Used	Cost	
Project Construction Bid Items	----------	--------	$425,325.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$106,331.25	(B) Used high
SWMP	(1%) of (A+B)	1.0%	$5,316.56	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$53,165.63	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$26,582.81	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$61,672.13	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$47,487.54	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$725,880.91**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$7,258.81	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$7,258.81	(J)
Subtotal of Construction Cost (H+I+J)	--------	-------	**$740,398.53**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$163,628.08	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$88,847.82	(M) - Assumes
Right-of-way	Enter $ amount	-------	$0.00	(N) - Assumes
Other	(1%-3%) of (H)	1.0%	$7,258.81	(O)
TOTAL PROJECT COST			**$1,000,133.24**	(P)

Neighborhood Bikeways Cost Estimate	Project Number: Subaccount:
Quebec Street and 12th Avenue	Prepared By: R. Plenge

CONSTRUCTION BID ITEMS					
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
	Removal of Concrete Sidewalk	SY	120.00	$35.00	$4,200.00
	Removal of Median	SY	0.00	$35.00	$0.00
	Removal of Curb and Gutter	LF	0.00	$25.00	$0.00
	Removal of Curb Ramp	EACH	0.00	$240.00	$0.00
	ADA Curb Ramp (Includes Removal of Existing)	EACH	6	$7,000.00	$42,000.00
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	2	$12,000.00	$24,000.00
	Curb and Gutter	LF	240.00	$60.00	$14,400.00
	Sidewalk/Trail	SY	0.00	$60.00	$0.00
	Median Cover Material (Concrete)	SY	100	$30.00	$3,000.00
	Traffic Signal (Complete in Place)	EACH	0	$350,000.00	$0.00
	Bicycle Signal Head	EACH	0.00	$1,500.00	$0.00
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	0	$40,000.00	$0.00
	HAWK Signal	EACH	1.00	$120,000.00	$120,000.00
	Cycle Track Bollards	EACH	0	$75.00	$0.00
	Traffic Circle	EACH	0	$17,000.00	$0.00
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CONSTRUCTION BID ITEMS TOTAL					$207,600.00

Unit Prices

COST SUMMARY				
Item	% Range	% Used	Cost	
Project Construction Bid Items	----------	--------	$207,600.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$51,900.00	(B) Used
SWMP	(1%) of (A+B)	1.0%	$2,595.00	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$25,950.00	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$12,975.00	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$30,102.00	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$23,178.54	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$354,300.54**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$3,543.01	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$3,543.01	(J)
Subtotal of Construction Cost (H+I+J)	--------	--------	**$361,386.55**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$79,866.43	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$43,366.39	(M) - Ass
Right-of-way	Enter $ amount	-------	$0.00	(N) - Ass
Other	(1%-3%) of (H)	1.0%	$3,543.01	(O)
TOTAL PROJECT COST			$488,162.37	(P)

Neighborhood Bikeways Cost Estimate	**Project Number:** **Subaccount:**
Yosemite Street and 12th Avenue	**Prepared By:** **R. Plenge**

CONSTRUCTION BID ITEMS					
ITEM NO.	**ITEM DESCRIPTION**	**UNIT**	**QUANTITY**	**PRICE**	**AMOUNT**
	Removal of Concrete Sidewalk	SY	120.00	$35.00	$4,200.00
	Removal of Median	SY	0.00	$35.00	$0.00
	Removal of Curb and Gutter	LF	0.00	$25.00	$0.00
	Removal of Curb Ramp	EACH	0.00	$240.00	$0.00
	ADA Curb Ramp (Includes Removal of Existing)	EACH	6	$7,000.00	$42,000.00
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	2	$12,000.00	$24,000.00
	Curb and Gutter	LF	240.00	$60.00	$14,400.00
	Sidewalk/Trail	SY	0.00	$60.00	$0.00
	Median Cover Material (Concrete)	SY	100	$30.00	$3,000.00
	Traffic Signal (Complete in Place)	EACH	0	$350,000.00	$0.00
	Bicycle Signal Head	EACH	0.00	$1,500.00	$0.00
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	1	$40,000.00	$40,000.00
	Cycle Track Bollards	EACH	0	$75.00	$0.00
	Traffic Circle	EACH	0	$17,000.00	$0.00
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CONSTRUCTION BID ITEMS TOTAL					**$127,600.00**

Unit Prices reflect 30% incre

COST SUMMARY				
Item	**% Range**	**% Used**	**Cost**	
Project Construction Bid Items	----------	--------	$127,600.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$31,900.00	(B) Used higher 30% contir
SWMP	(1%) of (A+B)	1.0%	$1,595.00	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$15,950.00	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$7,975.00	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$18,502.00	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$14,246.54	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$217,768.54**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$2,177.69	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$2,177.69	(J)
Subtotal of Construction Cost (H+I+J)	--------	**-------**	**$222,123.91**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$49,089.38	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$26,654.87	(M) - Assumes PS&E and NI
Right-of-way	Enter $ amount	-------	$0.00	(N) - Assumes Clear Creek
Other	(1%-3%) of (H)	1.0%	$2,177.69	(O)
TOTAL PROJECT COST			**$300,045.85**	(P)

Neighborhood Bikeways Cost Estimate	Project Number: Subaccount:
All Traffic Circles: and Jersey Street • 12th Avenue and Niagara Street • 12th Avenue and Pontiac Street • 12th Avenue and Xanthia Street • Garfield Street and 16th Avenue • Garfield Street and 10th Avenue • Garfield Street and 9th Avenue • Garfield Street and 5th Avenue • Garfield Street and 4th Avenue • Garfield Street and 2nd Avenue • Garfield Street and Ellsworth Avenue • 12th Avenue	Prepared By: R. Plenge

CONSTRUCTION BID ITEMS

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
	Removal of Concrete Sidewalk	SY	0.00	$35.00	$0.00
	Removal of Median	SY	0.00	$35.00	$0.00
	Removal of Curb and Gutter	LF	0.00	$25.00	$0.00
	Removal of Curb Ramp	EACH	0.00	$240.00	$0.00
	ADA Curb Ramp (Includes Removal of Existing)	EACH	0	$7,000.00	$0.00
	Curb Extension including ADA Curb Ramp (Includes Removals)	EACH	0	$12,000.00	$0.00
	Curb and Gutter	LF	0.00	$60.00	$0.00
	Sidewalk/Trail	SY	0.00	$60.00	$0.00
	Median Cover Material (Concrete)	SY	0	$30.00	$0.00
	Traffic Signal (Complete in Place)	EACH	0	$350,000.00	$0.00
	Bicycle Signal Head	EACH	0.00	$1,500.00	$0.00
	Rectangular Rapid Flashing Beacon (2 Approaches and Median)	EACH	0	$40,000.00	$0.00
	Cycle Track Bollards	EACH	0	$75.00	$0.00
	Traffic Circle	EACH	11	$17,000.00	$187,000.00
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					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
CONSTRUCTION BID ITEMS TOTAL					**$187,000.00**

Unit Prices reflect 30% increase in 2013 unit prices based on recent CDOT co

COST SUMMARY

Item	% Range	% Used	Cost	
Project Construction Bid Items	----------	--------	$187,000.00	(A)
Contingencies	(15%-30%) of (A)	25.0%	$46,750.00	(B) Used higher 30% contingency due to unknowns
SWMP	(1%) of (A+B)	1.0%	$2,337.50	(C)
Drainage/Utilities	(3%-10%) of (A+B) default = 6%	10.0%	$23,375.00	(D)
Signing and Striping	(1%-5%) of (A+B+C+D) default = 5%	5.0%	$11,687.50	(E)
Construction Signing & Traffic Control	(5%-25%) of (A+B+C+D+E) degfault = 20%	10.0%	$27,115.00	(F)
Mobilization	(4%-10%) of (A+B+C+D+E+F) default = 7%	7.0%	$20,878.55	(G)
Total of Construction Bid Items	**(A)+(B)+(C)+(D)+(E)+(F)+(G)**	**-------**	**$319,143.55**	(H)
Force Account - Utilities	(1%-2%) of (H) default = 2%	1.0%	$3,191.44	(I)
Force Account - Misc.	(10%-15%) of (H) default = 12%	1.0%	$3,191.44	(J)
Subtotal of Construction Cost (H+I+J)	**--------**	**-------**	**$325,526.42**	(K)
Total Construction Engineering, CE & Indirects	22.1% of (K)	22.10%	$71,941.34	(L)
Total Engineering including NEPA	(8%-12%) of (K)	12.0%	$39,063.17	(M) - Assumes PS&E and NEPA
Right-of-way	Enter $ amount	-------	$0.00	(N) - Assumes Clear Creek County would donate ROW along Stanley Road ar
Other	(1%-3%) of (H)	1.0%	$3,191.44	(O)
TOTAL PROJECT COST			**$439,722.37**	(P)

$2,906,893.33
$ 6,423,576.28