

## 21006 Funding Sources

Source	Type of Funding	Amt	% Split		Type of Split	Federal	State	Local
DRCOG	STP Metro	\$ 31,600,000	80	20	Federal/Local	\$ 25,280,000.0		\$ 6,320,000.0
CDOT	HSIP	\$ 2,600,000	90	10	Federal/State	\$ 2,340,000.0	\$ 260,000.0	
CDOT	Resurfacing Funds	\$ 3,000,000	82.79	17.21	Federal/State	\$ 2,483,700.0	\$ 516,300.0	
	Signal							
CDOT	Replacement	\$ 1,100,000	100		State		\$ 1,100,000	

**Total Available:** \$ 38,300,000

\$ 30,103,700   \$ 1,876,300   \$ 6,320,000

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Nitin funds for signal replacement. Faster  
Safety Funds.



**COLORADO**

**Department of Transportation**

Region 1

Region Transportation Director  
2000 South Holly  
Denver, CO 80222

October 17, 2017

Mr. Mark A Westberg, PE, CFM  
Projects Supervisor, Public Works  
City of Wheat Ridge  
7500 W. 29<sup>th</sup> Avenue  
Wheat Ridge, CO 80033

Dear Mr. Westberg:

This is to verify that the Colorado Department of Transportation (CDOT) has committed \$6,700,000 in CDOT (Surface Treatment, Hazard Elimination and Traffic Signal Replacement) funds for the State Highway 121 Wadsworth Boulevard Widening Project. The funds are anticipated to be budgeted in the FY 2019 CDOT budget.

Please contact Danny Herrmann CDOT R1 Planning Manager at 303-757-9946 if you require any further information.

Sincerely,

Paul Jesaitis  
Regional Transportation Director

cc: Danny Herrmann, R1 Planning Manager



Sub Acct: 21006

Proj #: NHPP 1211-086

Description: Wadsworth Blvd Widening from 35th to I-70

Description of Bicycle Improvements: 10' wide Cycle Track on Wadsworth Blvd from 35th to 44th Ave

Cost Break down for Cycle Track Portion of the Widening Project:

Design:	400,000.00
Right of Way:	800,000.00
Construction:	750,000.00
	<u>1,950,000.00</u>

**Estimate Worksheet - Wadsworth Blvd. PEL 130' Option (North of 44th Ave.)**

Item #	Project Construction Items Item Description	Quantity	Units	Unit Price	Cost	% Used	
	Traffic Signal Intersection Upgrade	1.00	LS	\$300,000.00	\$300,000.00		
	Pedestrian Traffic Signal	0.00	LS	\$100,000.00	\$0.00		
	Retaining Walls	1.00	LS	\$540,000.00	\$540,000.00		
	Earthwork	1.00	LS	\$30,000.00	\$30,000.00		
	Roadway Lighting	1.00	LS	\$228,800.00	\$228,800.00		
304-02000	ABC (CL 6)	5,662	TON	\$20.00	\$113,240.00		
412-00950	Concrete Pavement (9-1/2 Inch)	18,920	SY	\$60.00	\$1,135,200.00		
601-01000	Conc CL B	106	CY	\$570.00	\$60,420.00		
608-00006	Conc Sidewalk (6 In)	2,416	SY	\$35.00	\$84,560.00		
608-00010	Conc Curb Ramp	165	SY	\$110.00	\$18,150.00		
609-21010	C and G Ty 2 1-B	3,902	LF	\$16.00	\$62,432.00		
609-24002	Gutter Ty 2 (2 Ft)	5,361	LF	\$20.00	\$107,220.00		
	<b>Total accounted construction items</b>				<b>\$2,680,022.00</b>		<b>(A)</b>
	<b>Contingencies</b>						
	Established as a percentage	(15% - 30%)	of (A)			<b>20%</b>	Carried to Sheet Two (B)
	Removals (Asphalt pavement, concrete items, etc.)	(6-10%)	of (a+b) Default = 6%			<b>7%</b>	Carried to Sheet Two (C)
	Drainage	Project Dependent					Carried to Sheet Two (D)
	Signing and Striping	(1-5%)	of (a+b+c+d) Default = 5%			<b>0%</b>	Carried to Sheet Two (E)
	Construction Signing & Traffic Control	5 to 25%	of (a+b+c+d+e) Default = 20%			<b>8%</b>	Carried to Sheet Two (F)
	Landscaping (Median cover material, Street scape, Trees, Lighting, Signs, etc.)	5 to 25%	of (A+B+C+D+E+F)			<b>24%</b>	Carried to Sheet Two (G)
	Mobilization	(4 to 10%)	of (a+b+c+d+e+f+g) Default = 7%			<b>7%</b>	Carried to Sheet Two (H)
	<b>Total of Construction Items</b>		(a+b+c+d+e+f+g+h)				(I)
	Force Account - Utilities	(1 to 2%)	of (i) Default = 2%			<b>2%</b>	Carried to Sheet Two (J)
	Force Account - Misc.	(10 to 15%)	of (i) Default = 12%			<b>12%</b>	Carried to Sheet Two (K)
	<b>Subtotal of Construction Cost</b>		(i+j+k)				(L)
	Total Construction Engineering	10%	of (l)			<b>10%</b>	Carried to Sheet Two (M)
	Total Preliminary Engineering	10%	of (l)			<b>10%</b>	Carried to Sheet Two (N)
	Right of Way (Including Acquisitions)	Project Dependent					Carried to Sheet Two (O)
	Utilities (Water and Sewer Relocations)	Project Dependent					Carried to Sheet Two (P)

**Notes:**

- Existing concrete retaining walls north of 48th are being replaced. Assumed 12' (avg.) wall height, west side is 250' long and east side is 200' long. Unit price used is \$100/SF.
- Street landscaping assumptions - trees, bushes, irrigation system, etc. for raised median areas, along with pedestrian lighting, benches, bike racks etc. for the areas along the east and west sides of Wadsworth Blvd.
- Drainage includes all new inlets, manholes, trunk lines, and other miscellaneous items associated with drainage improvements for the entire project corridor.
- ROW costs associated with moderate parcel takes along Wadsworth Blvd. and complete structure acquisitions at 41st Ave., 44th Ave., 46th Ave., 47th Ave., the west side of Wadsworth Blvd. between 45th Ave. and 46th Ave. and the east side of Wadsworth Blvd. between 44th Ave. and 45th Ave. (5 total acquisitions).
- Roadway lighting (LED) lump sum cost is for Wadsworth Blvd. only. Pedestrian lighting incorporated into the landscaping lump sum cost.
- Construction engineering would change to 22% if the project is managed by CDOT.

**130' Option (North of 44th Ave.) - Items added or quantities increased since the TIP cost estimate:**

- The addition of one (1) traffic signal - \$300,000.
- The addition of roadway LED lighting -\$228,800
- The addition of pedestrian lighting -\$257,250
- The addition of urban design elements (gateways, monuments, site furnishings etc.) to the landscaping cost - \$300,000
- Additional landscaping areas along the corridor.
- Additional improvements north of TIP limits (46th Ave) - \$43,000.
- Expanded roadway improvements along 38th Ave. and 44th Ave.
- Additional ROW acquisitions.

**Project Name: Wadsworth Blvd. PEL 130' Option (North of 44th Ave.)**

	<b>% Range</b>	<b>% Used</b>	<b>Cost</b>	
Project Construction Items			\$2,680,022.00	(A)
<b>Contingencies</b> Established as a percentage	(15% - 30%) of (A)	20%	\$536,005.00	(B)
Removals (Asphalt pavement, concrete items, etc.)	(6-10%) of (A+B) Default = 6%	7%	\$225,122.00	(C)
Drainage	Project Dependent		\$1,235,000.00	(D)
Signing and Striping	(1-5%) of (A+B+C+D) Default = 5%	5%	\$233,808.00	(E)
Construction Signing & Traffic Control	5 to 25% of (A+B+C+D+E) Default = 20%	8%	\$392,797.00	(F)
Landscaping (Median cover material, Street scape, Trees, Lighting, Signs, etc.)	5 to 25% of (A+B+C+D+E+F)	24%	\$1,272,661.00	(G)
Mobilization	(4 to 10%) of (A+B+C+D+E+F+G) Default = 7%	7%	\$460,280.00	(H)
<b>Total of Construction Items</b>	(A+B+C+D+E+F+G+H)		\$7,035,695.00	(I)
Force Account - Utilities	(1 to 2%) of (I) Default = 2%	2%	\$140,714.00	(J)
Force Account - Misc.	(10 to 15%) of (I) Default = 12%	12%	\$844,284.00	(K)
<b>Subtotal of Construction Cost</b>	(I+J+K)		\$8,020,693.00	(L)
Total Construction Engineering	10% of (L)	10%	\$802,070.00	(M)
Total Preliminary Engineering	10% of (L)	10%	\$802,070.00	(N)
Right of Way (Including Acquisitions)	Project Dependent		\$3,333,192.00	(O)
Utilities (Water and Sewer Relocations)	Project Dependent		\$830,000.00	(P)
<b>Total Project Cost</b>			<b>\$13,788,025.00</b>	<b>(Q)</b>

**Estimate Worksheet - Wadsworth Blvd. PEL 150' Option (South of 44th Ave.)**

Item #	Project Construction Items Item Description	Quantity	Units	Unit Price	Cost	% Used	
	Traffic Signal Intersection Upgrade	6.00	LS	\$300,000.00	\$1,800,000.00		
	Pedestrian Traffic Signal	1.00	LS	\$100,000.00	\$100,000.00		
	Retaining Walls	0.00	LS	\$540,000.00	\$0.00		
	Earthwork	1.00	LS	\$70,000.00	\$70,000.00		
	Roadway Lighting	1.00	LS	\$457,600.00	\$457,600.00		
304-02000	ABC (CL 6)	13,680	TON	\$20.00	\$273,600.00		
412-00950	Concrete Pavement (9-1/2 Inch)	45,712	SY	\$60.00	\$2,742,720.00		
601-01000	Conc CL B	158	CY	\$570.00	\$90,060.00		
608-00006	Conc Sidewalk (6 In)	8,096	SY	\$35.00	\$283,360.00		
608-00010	Conc Curb Ramp	537	SY	\$110.00	\$59,070.00		
609-21010	C and G Ty 2 1-B	8,278	LF	\$16.00	\$132,448.00		
609-24002	Gutter Ty 2 (2 Ft)	13,642	LF	\$20.00	\$272,840.00		
<b>Total accounted construction items</b>							<b>\$6,281,698.00 (A)</b>
	<b>Contingencies</b>	(15% - 30%) of (A)				<b>20%</b>	Carried to Sheet Four (B)
	Established as a percentage						
	Removals (Asphalt pavement, concrete items, etc.)	(6-10%) of (a+b) Default = 6%				<b>7%</b>	Carried to Sheet Four (C)
	Drainage	Project Dependent					Carried to Sheet Four (D)
	Signing and Striping	(1-5%) of (a+b+c+d) Default = 5%				<b>0%</b>	Carried to Sheet Four (E)
	Construction Signing & Traffic Control	5 to 25% of (a+b+c+d+e) Default = 20%				<b>8%</b>	Carried to Sheet Four (F)
	Landscaping (Median cover material, Street scape, Trees, Lighting, Signs, etc.)	5 to 25% of (A+B+C+D+E+F)				<b>24%</b>	Carried to Sheet Four (G)
	Mobilization	(4 to 10%) of (a+b+c+d+e+f+g) Default = 7%				<b>7%</b>	Carried to Sheet Four (H)
	<b>Total of Construction Items</b>	(a+b+c+d+e+f+g+h)					(I)
	Force Account - Utilities	(1 to 2%) of (i) Default = 2%				<b>2%</b>	Carried to Sheet Four (J)
	Force Account - Misc.	(10 to 15%) of (i) Default = 12%				<b>12%</b>	Carried to Sheet Four (K)
	<b>Subtotal of Construction Cost</b>	(i+j+k)					(L)
	Total Construction Engineering	10% of (l)				<b>10%</b>	Carried to Sheet Four (M)
	Total Preliminary Engineering	10% of (l)				<b>10%</b>	Carried to Sheet Four (N)
	Right of Way (Including Acquisitions)	Project Dependent					Carried to Sheet Four (O)
	Utilities (Water and Sewer Relocations)	Project Dependent					Carried to Sheet Four (P)

**Notes:**

- Existing concrete retaining walls north of 48th are being replaced. Assumed 12' (avg.) wall height, west side is 250' long and east side is 200' long. Unit price used is \$100/SF.
- Street landscaping assumptions - trees, bushes, irrigation system, etc. for raised median areas, along with pedestrian lighting, benches, bike racks etc. for the areas along the east and west sides of Wadsworth Blvd.
- Drainage includes all new inlets, manholes, trunk lines, and other miscellaneous items associated with drainage improvements for the entire project corridor.
- ROW costs associated with moderate parcel takes along Wadsworth Blvd. and complete structure acquisitions at 36th Ave., 38th Ave., 41st Ave., and 44th Ave. (5 acquisitions).
- Roadway lighting (LED) lump sum cost is for Wadsworth Blvd. only. Pedestrian lighting incorporated into the landscaping lump sum cost.
- Construction engineering would change to 22% if the project is managed by CDOT.

**150' Option (South of 44th Ave.) - Items added or quantities increased since the TIP cost estimate:**

- The addition of three (3) traffic signals - \$900,000.
- The addition of roadway LED lighting - \$457,600.
- The addition of pedestrian lighting - \$824,250
- The addition of urban design elements (gateways, monuments, site furnishings etc.) to the landscaping cost - \$700,000.
- Additional landscaping areas along the corridor.
- The addition of one (1) pedestrian traffic signal north of 3 Acre Ln on Wadsworth Blvd - \$100,000.
- Additional improvements south of the TIP limits (35th Ave.) - \$76,000.
- Expanded roadway improvements along 38th Ave. and 44th Ave.
- Additional ROW acquisitions.

**Project Name: Wadsworth Blvd. PEL 150' Option (South of 44th Ave.)**

	<b>% Range</b>	<b>% Used</b>	<b>Cost</b>	
Project Construction Items			\$6,281,698.00	(A)
<b>Contingencies</b> Established as a percentage	(15% - 30%) of (A)	20%	\$1,256,340.00	(B)
Removals (Asphalt pavement, concrete items, etc.)	(6-10%) of (A+B) Default = 6%	7%	\$527,663.00	(C)
Drainage	Project Dependent		\$1,235,000.00	(D)
Signing and Striping	(1-5%) of (A+B+C+D) Default = 5%	5%	\$465,036.00	(E)
Construction Signing & Traffic Control	5 to 25% of (A+B+C+D+E) Default = 20%	8%	\$781,259.00	(F)
Landscaping (Median cover material, Street scape, Trees, Lighting, Signs, etc.)	5 to 25% of (A+B+C+D+E+F)	24%	\$2,531,280.00	(G)
Mobilization	(4 to 10%) of (A+B+C+D+E+F+G) Default = 7%	7%	\$915,480.00	(H)
<b>Total of Construction Items</b>	(A+B+C+D+E+F+G+H)		\$13,993,756.00	(I)
Force Account - Utilities	(1 to 2%) of (I) Default = 2%	2%	\$279,876.00	(J)
Force Account - Misc.	(10 to 15%) of (I) Default = 12%	12%	\$1,679,251.00	(K)
<b>Subtotal of Construction Cost</b>	(I+J+K)		\$15,952,883.00	(L)
Total Construction Engineering	10% of (L)	10%	\$1,595,289.00	(M)
Total Preliminary Engineering	10% of (L)	10%	\$1,595,289.00	(N)
Right of Way (Including Acquisitions)	Project Dependent		\$8,231,739.00	(O)
Utilities (Water and Sewer Relocations)	Project Dependent		\$1,670,000.00	(P)
<b>Total Project Cost</b>			<b>\$29,045,200.00</b>	<b>(Q)</b>
<b>Total Project Cost - Combined North and South Options</b>			<b>\$42,833,225.00</b>	<b>(R)</b>



**Estimate Worksheet - Wadsworth Blvd. PEL Final Recommended Alternative**

		% Range	% Used		
Item #	Project Construction Items Item Description	Quantity	Units	Unit Price	Cost
	Traffic Signal Intersection Upgrade	7.00	LS	\$300,000.00	\$2,100,000.00
	Pedestrian Traffic Signal	1.00	LS	\$100,000.00	\$100,000.00
	Retaining Walls	1.00	LS	\$540,000.00	\$540,000.00
	Earthwork	2.00	LS	\$50,000.00	\$100,000.00
	Roadway Lighting	2.00	LS	\$343,200.00	\$686,400.00
304-02000	ABC (CL 6)	19,342	TON	\$20.00	\$386,840.00
412-00950	Concrete Pavement (9-1/2 Inch)	64,632	SY	\$60.00	\$3,877,920.00
601-01000	Conc CL B	264	CY	\$570.00	\$150,480.00
608-00006	Conc Sidewalk (6 In)	10,512	SY	\$35.00	\$367,920.00
608-00010	Conc Curb Ramp	702	SY	\$110.00	\$77,220.00
609-21010	C and G Ty 2 1-B	12,180	LF	\$16.00	\$194,880.00
609-24002	Gutter Ty 2 (2 Ft)	19,003	LF	\$20.00	\$380,060.00
<b>Total accounted construction items</b>				*LS costs are averaged	
					<b>\$8,961,720.00</b>
<b>Contingencies</b>		(15% - 30%) of (A)		20%	Carried to Sheet Two
Established as a percentage					(B)
Removals (Asphalt pavement, concrete items, etc.)		(6-10%) of (a+b) Default = 6%		7%	Carried to Sheet Two
					(C)
Drainage		Project Dependent			Carried to Sheet Two
					(D)
Signing and Striping		(1-5%) of (a+b+c+d) Default = 5%		0%	Carried to Sheet Two
					(E)
Construction Signing & Traffic Control		5 to 25% of (a+b+c+d+e) Default = 20%		8%	Carried to Sheet Two
					(F)
Landscaping (Median cover material, Street scape, Trees, Lighting, Signs, etc.)		5 to 25% of (A+B+C+D+E+F)		24%	Carried to Sheet Two
					(G)
Mobilization		(4 to 10%) of (a+b+c+d+e+f+g) Default = 7%		7%	Carried to Sheet Two
					(H)
<b>Total of Construction Items</b>		(a+b+c+d+e+f+g+h)			(I)
Force Account - Utilities		(1 to 2%) of (i) Default = 2%		2%	Carried to Sheet Two
					(J)
Force Account - Misc.		(10 to 15%) of (i) Default = 12%		12%	Carried to Sheet Two
					(K)
<b>Subtotal of Construction Cost</b>		(i+j+k)			(L)
Total Construction Engineering		10% of (l)		10%	Carried to Sheet Two
					(M)
Total Preliminary Engineering		10% of (l)		10%	Carried to Sheet Two
					(N)
Right of Way (Including Acquisitions)		Project Dependent			Carried to Sheet Two
					(O)
Utilities (Water and Sewer Relocations)		Project Dependent			Carried to Sheet Two
					(P)

**Notes:**

- Existing concrete retaining walls north of 48th are being replaced. Assumed 12' (avg.) wall height, west side is 250' long and east side is 200' long. Unit price used is \$100/SF.
- Street landscaping assumptions - trees, bushes, irrigation system, etc. for raised median areas, along with pedestrian lighting, benches, bike racks etc. for the areas along the east and west sides of Wadsworth Blvd.
- Drainage includes all new inlets, manholes, trunk lines, and other miscellaneous items associated with drainage improvements for the entire project corridor.
- ROW costs associated with moderate parcel takes along Wadsworth Blvd. and complete structure acquisitions at 41st Ave., 44th Ave., 46th Ave., 47th Ave., the west side of Wadsworth Blvd. between 45th Ave. and 46th Ave. and the east side of Wadsworth Blvd. between 44th Ave. and 45th Ave. (5 total acquisitions).
- Roadway lighting (LED) lump sum cost is for Wadsworth Blvd. only. Pedestrian lighting incorporated into the landscaping lump sum cost.
- Construction engineering would change to 22% if the project is managed by CDOT.

**Project Name: Wadsworth Blvd. PEL Final Recommended Alternative**

	<b>% Range</b>	<b>% Used</b>	<b>Cost</b>	
Project Construction Items			\$8,961,720.00	(A)
<b>Contingencies</b> Established as a percentage	(15% - 30%) of (A)	20%	\$1,792,344.00	(B)
Removals (Asphalt pavement, concrete items, etc.)	(6-10%) of (A+B) Default = 6%	7%	\$752,785.00	(C)
Drainage	Project Dependent		\$2,470,000.00	(D)
Signing and Striping	(1-5%) of (A+B+C+D) Default = 5%	5%	\$698,843.00	(E)
Construction Signing & Traffic Control	5 to 25% of (A+B+C+D+E) Default = 20%	8%	\$1,174,056.00	(F)
Landscaping (Median cover material, Street scape, Trees, Lighting, Signs, etc.)	5 to 25% of (A+B+C+D+E+F)	24%	\$3,803,940.00	(G)
Mobilization	(4 to 10%) of (A+B+C+D+E+F+G) Default = 7%	7%	\$1,375,759.00	(H)
<b>Total of Construction Items</b>	(A+B+C+D+E+F+G+H)		\$21,029,447.00	(I)
Force Account - Utilities	(1 to 2%) of (I) Default = 2%	2%	\$420,589.00	(J)
Force Account - Misc.	(10 to 15%) of (I) Default = 12%	12%	\$2,523,534.00	(K)
<b>Subtotal of Construction Cost</b>	(I+J+K)		\$23,973,570.00	(L)
Total Construction Engineering	10% of (L)	10%	\$2,397,357.00	(M)
Total Preliminary Engineering	10% of (L)	10%	\$2,397,357.00	(N)
Right of Way (Including Acquisitions)	Project Dependent		\$11,500,000.00	(O)
Utilities (Water and Sewer Relocations)	Project Dependent		\$2,500,000.00	(P)
<b>Total Project Cost</b>			<b>\$42,768,284.00</b>	<b>(Q)</b>

Project_ID	Project Def	Project Name	Region	Route	BeginRef	EndRef	Structure or Building ID	Allocated by Signal Program	Budgeted by Regions	Financials as of	SAP Budget	SAP Expenditure	SAP Encumbrance	SAP Balance	Scheduled AD Date	Comments
	Traffic Signal Replacement	SH8 and SH74	1	008A	2.15			\$ 500,000.00								
	Traffic Signal Replacement	US 285 @ SH 88 EB	1	285D	258.06			\$ 550,000.00								
	Traffic Signal Replacement	US 285 @ SH 88 WB	1	285D	258.07			\$ 550,000.00								
	Traffic Signal Replacement	SH 177 at E Otero Ave	1	177A	0.13			\$ 500,000.00								
	Traffic Signal Replacement	SH 85 at RD E AND W (BLAKELAND DR)	1	085B	200.09			\$ 500,000.00								
	Traffic Signal Replacement	SH 121 @ 44th Ave	1	121A	16.138			\$ 550,000.00								
	Traffic Signal Replacement	SH 121 (Wadsworth Blvd) & 3 Acre Lane	1	121A	15.96			\$ 550,000.00								
	Signal Pole/Mast arm Replacement	Various Location	1					\$ 280,000.00								
	Cabinets Replacements (approx. 100 @\$15K each)	Cabinet Replacements	1					\$ 1,500,000.00								
	Controllers Replacements (approx. 100 @ \$5k each)	Controller Replacements	1					\$ 500,000.00								
	Traffic Signal Replacement	SH 16 (Mesa Ridge Pkwy)/Safeway	2	16A	2.145			\$ 114,325.00								
	Traffic Signal Replacement	US 24 at 21st St	2	24A	302.07			\$ 578,919.00								
	Traffic Signal Replacement	US 24 at Academy Park Lp	2	24H	306.46			\$ 578,919.00								
	Traffic Signal Replacement	SH 21 (Powers Blvd) at Astrozon Blvd	2	21A	139.08			\$ 578,919.00								
	Traffic Signal Replacement	SH 21 (Powers Blvd) at Hancock Expy	2	21A	138.37			\$ 578,918.00								
21804.20.10	Traffic Signal Replacement	US 24 at Mountain View	3	024A	175.08			\$ 430,000.00	\$ 430,000.00							
	Traffic Signal Replacement	US 24 at Harrison	3	024A	175.87			\$ 500,000.00								
	Traffic Signal Replacement	US 40 at Hwy 9	3	040A	184.53			\$ 500,000.00								
	Traffic Signal Replacement	US 40 at 1st St	3	040A	212.06			\$ 500,000.00								
	Traffic Signal Replacement	US 40 at CR 804-CR 72	3	040A	227.11			\$ 500,000.00								
	Traffic Signal Replacement	US 36 @ Jay	4					\$ 600,000.00								
	Traffic Signal Replacement	St. Louis @ CO 402	4					\$ 600,000.00								
	Traffic Signal Replacement	Boise @ CO 402	4					\$ 600,000.00								
	Traffic Signal Replacement	SH 402 @ East Frontage Road I-25	4					\$ 630,000.00								
	Span Wire TBD		4					\$ -								
	Span Wire TBD		4					\$ -								
21416.20.10	Traffic Signal Replacement	Chaffee & Rio Grande	5	050A	220.38			\$ -	\$ 1,100,000.00							
	Traffic Signal Replacement	SH 291 at F Street, Salida	5	291A	1.11			\$ 275,000.00								
	Traffic Signal Replacement	US 50 at CR 111, Salida	5	050A	220.60			\$ 275,000.00								
	Traffic Signal Replacement	SH 15 at 2nd, Monte Vista	5	015A	0.09			\$ 275,000.00								
	Traffic Signal Replacement	US 160 at SH 112, Del Norte	5	160A	201.91			\$ 275,000.00								
20737.10.20	Traffic Signal Replacement	US 550 at 9th, Durango	5	550B	21.31			\$ 250,000.00								
	Traffic Signal Replacement	SH 3 at Santa Rita, Durango	5	003A	2.42			\$ 250,000.00								
	Traffic Signal Replacement	US 160 at Pinon, Pagosa Springs	5	160A	139.73			\$ 250,000.00								
	Traffic Signal Replacement	US 160 at Hot Springs, Pagosa Springs	5	160A	143.55			\$ 250,000.00								
	Signal Detection and Coms Upgrades	Region Wide	5					\$ 330,000.00								
	Statewide Emergency Replacements	Emergency Reserve	Statewide					\$ -								
<b>Total</b>								<b>\$ 15,700,000.00</b>	<b>\$ 1,530,000.00</b>							

XXXXXX Projects Not Yet Budgeted in FY17

	Allocations	
Region 1	\$ 5,980,000.00	\$ -
Region 2	\$ 2,430,000.00	\$ -
Region 3	\$ 2,430,000.00	\$ 430,000.00
Region 4	\$ 2,430,000.00	\$ -
Region 5	\$ 2,430,000.00	\$ 1,100,000.00
Statewide Contingency	\$ -	\$ -
<b>Total</b>	<b>\$ 15,700,000.00</b>	<b>\$ 1,530,000.00</b>



**Wadsworth Blvd. PEL - ROW Acquisition Costs - Final Recommended Alternative**

Wadsworth Blvd. PEL - Final Recommended Alternative					
North of 44th Ave. ROW Costs					
Classification	Price / SF	Parcel SF	Totals	Assessor's Value	Description
Office	\$21.00	16,688	\$350,448		
Residential	\$12.00	22,215	\$266,580		
Residential - Complete Property Acquisition	\$12.00	12,286	\$147,432	\$230,200	Residential Property at SW Corner of 47th Ave. and Wadsworth Blvd.
Retail	\$23.00	45,998	\$1,057,954		
Retail - Complete Property Acquisition	\$23.00	13,852	\$318,596	\$325,700	Discount Tire Company - SE Corner of 46th Ave. and Wadsworth Blvd.
Retail - Complete Property Acquisition	\$23.00	22,767	\$523,641	\$779,400	Bank of the West - NE Corner of 44th Ave. and Wadsworth Blvd.
Retail - Complete Property Acquisition	\$23.00	22,791	\$524,193	\$400,000	Lamp Shade Gallery - West side of Wadsworth between 45th and 46th Ave.
Retail - Complete Property Acquisition	\$23.00	6,276	\$144,348	\$1,400	Pepboys Parking Lot - East Side of Wadsworth and 45th Ave.
Totals (Complete Property Acquisitions Only)			\$1,658,210	\$1,736,700	
Total (Including Complete Property Acquisitions)			\$3,333,192		
Total (Excluding Complete Property Acquisitions)			\$1,674,982		

Wadsworth Blvd. PEL - Final Recommended Alternative					
South of 44th Ave. ROW Costs					
Classification	Price / SF	Parcel SF	Totals	Assessor's Value	Description
Office	\$21.00	8,663	\$181,923		
Residential	\$12.00	24,432	\$293,184		
Residential - Complete Property Acquisition	\$12.00	23,132	\$277,584	\$188,300	Residential Property - NE Corner of 36th Ave. and Wadsworth Blvd.
Retail	\$23.00	164,641	\$3,786,743		
Retail - Complete Property Acquisition	\$23.00	95,279	\$2,191,417	\$1,603,200	Multi-use business - SW Corner of 44th Ave. and Wadsworth Blvd.
Retail - Complete Property Acquisition	\$23.00	21,277	\$489,371	\$209,300	Mexican Restaurant - SE Corner of W. 41st Ave. and Wadsworth Blvd.
Retail - Complete Property Acquisition	\$23.00	19,351	\$445,073	\$880,000	Midas Muffler - NW Corner of 38th Ave. and Wadsworth Blvd.
Retail - Complete Property Acquisition	\$23.00	24,628	\$566,444	\$859,500	Burger King - NE Corner of 38th Ave. and Wadsworth Blvd.
Totals (Complete Property Acquisitions Only)			\$3,969,889	\$3,740,300	
Total (Including Complete Property Acquisitions)			\$8,231,739		
Total (Excluding Complete Property Acquisitions)			\$4,261,850		

Wadsworth Blvd. PEL - Final Recommended Alternative					
Total ROW Costs					
Classification	Price / SF	Parcel SF	Totals	Assessor's Value	Description
Office	\$21.00	25,351	\$532,371		
Office - Complete Property Acquisition					
Residential	\$12.00	46,647	\$559,764		
Residential - Complete Property Acquisition		35,418	\$425,016	\$418,500	
Retail	\$23.00	210,639	\$4,844,697		
Retail - Complete Property Acquisition		219,945	\$5,203,083	\$5,058,500	
Totals (Complete Property Acquisitions Only)			\$5,628,099	\$5,477,000	
Total (Including Complete Property Acquisitions)			\$11,564,931		
Total (Excluding Complete Property Acquisitions)			\$5,936,832		

## Notes:

1. ROW SF costs provided by Arleen Taniwaki of ArLand Land Use Economics.
2. 2014 Assessor's values from Jefferson County (<http://archie.co.jefferson.co.us/website/aspin/disclaimer.htm>).
3. Refer to the enhanced build/130' parcel impacts graphic for locations of parcel impacts.
4. 140' Width north of 44th Ave. and 130' width south of 44th Ave.

Originator: CJD  
 QC Review/Checked By: CTN  
 Approved By: SNL  
 Revised: CTN  
 Checked By: CLD  
 Approved By: SNL  
 Revised By: JML

Date: 2/25/17  
 Date: 2/26/17  
 Date: 2/27/17  
 Date: 3/15/17  
 Date: 3/15/17  
 Date: 3/15/17  
 Date: 9/21/2017

3%

CONCEPTUAL COST ESTIMATE							
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	BASE UNIT PRICE (2017)	BASE UNIT PRICE (2019)	TOTAL COST (2019)	COMMENTS
201-00000	Clearing and Grubbing	L S	3	\$ 100,000.00	\$ 106,090.00	\$318,270	
202	Unaccounted (Not Fully Quantified) Removal and Resets	L S				\$165,353	concrete, sign panels, manholes, fire hydrants, valves
202-00000	Removal of Structures and Obstructions	L S	1	\$ 100,000.00	\$ 106,090.00	\$106,090	
202-00010	Removal of Tree	EACH	100	\$ 575.00	\$ 610.02	\$61,002	
202-00019	Removal of Inlet	EACH	49	\$ 1,000.00	\$ 1,060.90	\$51,984	counted in street view
202-00035	Removal of Pipe	LF	6,200	\$ 25.00	\$ 26.52	\$164,440	assume length of project trunkline
202-00155	Removal of Wall	LF	450	\$ 100.00	\$ 106.09	\$47,741	area over by Safeway (knee wall); large one
202-00200	Removal of Sidewalk	SY	6,500	\$ 10.00	\$ 10.61	\$68,959	
202-00203	Removal of Curb and Gutter	LF	27,400	\$ 5.00	\$ 5.30	\$145,343	
202-00210	Removal of Concrete Pavement	SY	5,600	\$ 10.00	\$ 10.61	\$59,410	
202-00220	Removal of Asphalt Mat	SY	70,000	\$ 3.50	\$ 3.71	\$259,921	
202-00240	Removal of Asphalt Mat (Planing)	SY	10,000	\$ 4.00	\$ 4.24	\$42,436	
202-00700	Removal of Light Standard	EACH	74	\$ 450.00	\$ 477.41	\$35,328	
202-00705	Removal of Light Standard Foundation	EACH	74	\$ 250.00	\$ 265.23	\$19,627	
202-00805	Removal of Overhead Sign Structure	EACH	1	\$ 3,000.00	\$ 3,182.70	\$3,183	removal of NB Wads to EB I-70 overhead sign
202-00810	Removal of Ground Sign	EACH	130	\$ 90.00	\$ 95.48	\$12,413	10 per block* 13 blocks
202-00828	Removal of Traffic Signal Equipment	L S	0	\$ 8,000.00	\$ 8,487.20	\$0	
202-00840	Removal of Traffic Signal Pole	EACH	12	\$ 850.00	\$ 901.77	\$10,821	counted
202-00842	Removal of Mast Arm	EACH	12	\$ 200.00	\$ 212.18	\$2,546	counted
202-00848	Removal of Traffic Signal Controller and Cabinet	EACH	12	\$ 350.00	\$ 371.32	\$4,456	counted
202-01000	Removal of Fence	LF	620	\$ 2.50	\$ 2.65	\$1,644	assume tenth the job length
202-05030	Sawing Asphalt Material (10 Inch)	LF	945	\$ 5.00	\$ 5.30	\$5,013	calculated 1 cut per edge of const * width of rdwy
203-00010	Unclassified Excavation (Complete In Place)	CY	32,000	\$ 20.00	\$ 21.22	\$678,976	includes roadway and pond
203-00100	Muck Excavation	CY	320	\$ 11.00	\$ 11.67	\$3,734	estimated 1% of excavation
203-01597	Potholing	HOURL	100	\$ 225.00	\$ 238.70	\$23,870	estimated
208	Unaccounted (Not Fully Quantified) Erosion Control	L S				\$31,254	
208-00002	Erosion Log (12 Inch)	LF	9,000	\$ 4.50	\$ 4.77	\$42,966	assume 80% length of project both sides
208-00045	Concrete Washout Structure	EACH	3	\$ 800.00	\$ 848.72	\$2,546	estimated
208-00051	Storm Drain Inlet Protection (Type 1)	LF	1,060	\$ 5.00	\$ 5.30	\$5,623	calculated based on total length of inlet for project
208-00207	Erosion Control Management	L S	1	\$ 50,000.00	\$ 53,045.00	\$53,045	estimated
210	Unaccounted Resets and Adjustments	L S				\$200,000	sign panels, manholes, fire hydrants, valves
304 - 412	Unaccounted (Not Fully Quantified) Roadway Surfacing	L S				\$115,422	driveways
304-06007	Aggregate Base Course (Class 6)	CY	15,000	\$ 30.00	\$ 31.83	\$477,405	
306-01000	Reconditioning	SY	90,000	\$ 2.75	\$ 2.92	\$262,573	
403-00720	Hot Mix Asphalt (Patching) (Asphalt)	TON	240	\$ 135.00	\$ 143.22	\$34,373	10% of HMA quantity
403-34721	Hot Mix Asphalt (Grading SX) (75) (PG 58-28)	TON	2,400	\$ 120.00	\$ 127.31	\$305,539	
411-10255	Emulsified Asphalt (Slow-Setting)	GAL	545	\$ 3.50	\$ 3.71	\$2,027	Calculated based on 0.1gal/sy of HMA, assume 8" HMA
412-00600	Concrete Pavement (6 Inch)	SY		\$ 60.00	\$ 63.65	\$0	
412-01000	Concrete Pavement (10 Inch)	SY	68,000	\$ 65.00	\$ 68.96	\$4,689,178	Roadway/intersection pavement
506-00218	Riprap (18 Inch)	CY	70	\$ 100.00	\$ 106.09	\$7,426	
514-00200	Pedestrian Railing (Steel)	LF	1,945	\$ 160.00	\$ 169.74	\$330,152	calculated 50% of total wall length
601	Unaccounted (Not Fully Quantified) Walls	L S				\$76,385	underdrains, geotextile
601-07000	Concrete Retaining Wall	SF	12,000	\$ 50.00	\$ 53.05	\$636,540	unit price assumes reinforcement, struct ex. and backfill
601-07000S	Concrete Retaining Wall (SPECIAL)	SF	7,500	\$ 80.00	\$ 84.87	\$636,540	caisson wall; unit price assumes reinforcement, struct ex. and backfill
601-40010	Masonry Wall	SF	6,000	\$ 40.00	\$ 42.44	\$254,616	
603 - 604	Unaccounted (Not Fully Quantified) Drainage	L S				\$68,674	
603-01185	18 Inch Reinforced Concrete Pipe (Complete In Place)	LF	2,920	\$ 85.00	\$ 90.18	\$263,315	
603-01245	24 Inch Reinforced Concrete Pipe (Complete In Place)	LF	335	\$ 100.00	\$ 106.09	\$35,540	
603-01305	30 Inch Reinforced Concrete Pipe (Complete In Place)	LF	320	\$ 130.00	\$ 137.92	\$44,133	
603-01365	36 Inch Reinforced Concrete Pipe (Complete In Place)	LF	1,466	\$ 170.00	\$ 180.35	\$264,397	
603-01425	42 Inch Reinforced Concrete Pipe (Complete In Place)	LF	591	\$ 200.00	\$ 212.18	\$125,398	
603-01485	48 Inch Reinforced Concrete Pipe (Complete In Place)	LF	409	\$ 240.00	\$ 254.62	\$104,138	
603-01545	54 Inch Reinforced Concrete Pipe (Complete In Place)	LF	905	\$ 275.00	\$ 291.75	\$264,031	
603-01605	60 Inch Reinforced Concrete Pipe (Complete In Place)	LF	3,189	\$ 320.00	\$ 339.49	\$1,082,627	
603-77001	Culvert Headwall (3-Sided Culvert)(Type 1)	EACH	1	\$ 7,500.00	\$ 7,956.75	\$7,957	
603-77011	Culvert Wingwall (3-Sided Culvert)(Type 1)	EACH	1	\$ 15,000.00	\$ 15,913.50	\$15,914	
604-19105	Inlet Type R L 5 (5 Foot)	EACH	40	\$ 4,750.00	\$ 5,039.28	\$201,571	
604-19110	Inlet Type R L 5 (10 Foot)	EACH	3	\$ 6,600.00	\$ 7,001.94	\$21,006	
604-19205	Inlet Type R L 10 (5 Foot)	EACH	27	\$ 7,800.00	\$ 8,275.02	\$223,426	
604-19210	Inlet Type R L 10 (10 Foot)	EACH	2	\$ 8,800.00	\$ 9,335.92	\$18,672	
604-19305	Inlet Type R L 15 (5 Foot)	EACH	2	\$ 13,700.00	\$ 14,534.33	\$29,069	
604-19410	Inlet Type R Special (40 Foot)	EACH	3	\$ 40,000.00	\$ 42,436.00	\$127,308	
604-30005	Manhole Slab Base (5 Foot)	EACH	2	\$ 3,350.00	\$ 3,554.02	\$7,108	
604-30010	Manhole Slab Base (10 Foot)	EACH	17	\$ 4,500.00	\$ 4,774.05	\$81,159	
604-31005	Manhole Box Base (5 Foot)	EACH	1	\$ 5,850.00	\$ 6,206.27	\$6,206	
604-31010	Manhole Box Base (10 Foot)	EACH	32	\$ 9,700.00	\$ 10,290.73	\$329,303	
604-31015	Manhole Box Base (15 Foot)	EACH	3	\$ 12,000.00	\$ 12,730.80	\$38,192	
604-31020	Manhole Box Base (20 Foot)	EACH	1	\$ 15,000.00	\$ 15,913.50	\$15,914	
604-31025	Manhole Box Base (25 Foot)	EACH	1	\$ 20,000.00	\$ 21,218.00	\$21,218	
604	Water Quality Pond	L S	1	\$ 100,000.00	\$ 106,090.00	\$106,090	
606-00710	Guardrail Type 7 (Style CA)	LF	300	\$ 70.00	\$ 74.26	\$22,279	between 48th and NB Wads
608 - 609	Unaccounted (Not Fully Quantified) Sidewalk Surfacing	L S				\$40,676	
608-00006	Concrete Sidewalk (6 Inch)	SY	20,250	\$ 45.00	\$ 47.74	\$966,745	
608-00010	Concrete Curb Ramp	SY	64	\$ 115.00	\$ 122.00	\$7,808	Calculate 40 ramps (counted) by 85 SF ~1.6 SY
609-21010	Curb and Gutter Type 2 (Section I-B)	LF	18,000	\$ 15.00	\$ 15.91	\$286,443	
609-21020	Curb and Gutter Type 2 (Section II-B)	LF	18,000	\$ 17.00	\$ 18.04	\$324,635	
610-00024	Median Cover Material (4 Inch Patterned Concrete)	SF	60,348	\$ 7.00	\$ 7.43	\$448,162	measured island areas
613-30005	Light Standard and Luminaire (Pedestrian)	EACH	124	\$ 4,500.00	\$ 4,774.05	\$591,982	assume one every 100' on both sides.
614 / 627	Unaccounted (Not Fully Quantified) Signage, Signals and Striping	L S				\$161,931	
614-00011	Sign Panel (Class I)	SF	992	\$ 22.00	\$ 23.34	\$23,153	assume average 8 SF per sign every 100' both sides
614-01502	Steel Sign Support (2-Inch Round)(Post & Socket)	LF	992	\$ 17.00	\$ 18.04	\$17,891	assume 8' height for every 100' on both sides
614-72860	Pedestrian Push Button	EACH	4	\$ 500.00	\$ 530.45	\$2,122	assume 1EA for locations without signal pole (crossover)
614-72863	Pedestrian Push Button Post Assembly	EACH	24	\$ 1,000.00	\$ 1,060.90	\$25,462	assume assembly required on all signal poles
614	4 Legged Signalization of Intersection	EACH	3	\$ 250,000.00	\$ 265,225.00	\$795,675	
614	Crossover Signalization	EACH	4	\$ 175,000.00	\$ 185,657.50	\$742,630	
614-85001	Impact Attenuator	EACH	2	\$ 25,000.00	\$ 26,522.50	\$53,045	both ends of Barrier Ty7 between 48th and NB Wads
619	Waterline Service	EACH	75	\$ 2,700.00	\$ 2,864.43	\$214,832	Appertunances, service connections; 75 properties
620-00002	Field Office (Class 2)	EACH	1	\$ 50,000.00	\$ 53,045.00	\$53,045	
620-00012	Field Laboratory (Class 2)	EACH	1	\$ 15,000.00	\$ 15,913.50	\$15,914	
621-00450	Detour Pavement	SY	8,000	\$ 34.00	\$ 36.07	\$288,565	Assume 12' by 600'
625-00000	Construction Surveying	L S	1	\$ 100,000.00	\$ 106,090.00	\$106,090	
626-01000	Public Information Services	L S	1	\$ 60,000.00	\$ 63,654.00	\$63,654	24 month construction @ \$2500/month
627-00005	Epoxy Pavement Marking	GAL	55	\$ 55.00	\$ 58.35	\$3,209	estimated tab with striping
627-30410	Preformed Thermoplastic Pavement Marking (StopLine)	SF	1,080	\$ 8.00	\$ 8.49	\$9,166	counted 30 spots * 1'x36' (avg)
<b>SUBTOTAL Bid Items</b>						<b>\$19,280,366</b>	
<b>Force Account Items</b>							
700-70011	F/A Partnering	F A	1	\$ 20,000	\$ 20,000	\$20,000	
700-70016	F/A Fuel Cost Adjustment	F A	1	\$ 50,000	\$ 50,000	\$50,000	
700-70010	F/A Minor Contract Revisions	F A	1	\$ 750,000	\$ 750,000	\$750,000	
700-70019	F/A Asphalt Cement Cost Adjustment	F A	1	\$ 200,000	\$ 300,000	\$300,000	Kept lower, bc \$127 (2019)/n conservative to account for oil price
700-70195	F/A Utilities and Maintenance of Field Facilities	F A	1	\$ 100,000	\$ 180,000	\$180,000	
700-70380	F/A Erosion Control	F A	1	\$ 50,000	\$ 50,000	\$50,000	
700-70589	F/A Environmental Health & Safety Management	F A	1	\$ 20,000	\$ 20,000	\$20,000	
<b>SUBTOTAL Force Account Items</b>						<b>\$1,370,000</b>	
<b>Additional Costs Not Tabulated</b>							
	Sewer & Service	2%	of Bid Items			\$385,607	Pipe, appertunances, service connections
	Traffic Control	5%	of Bid Items			\$964,018	1.25 miles of Precast Type 7 = 6600LF*\$90/LF = \$594,000
	Mobilization	10%	of Bid Items			\$1,928,037	
	Landscape & Irrigation	5%	of Bid Items			\$964,018	
	Relocation of dry utilities	3%	of Bid Items			\$578,411	Zayo and CDOT FO
	Environmental Mitigation	8%	of Bid Items			\$1,542,429	noise walls, other
	Construction Engineering	10%	of Bid Items			\$1,928,037	
<b>SUBTOTAL Additional Known Costs</b>						<b>\$8,290,558</b>	
<b>CONSTRUCTION TOTAL</b>						<b>\$28,940,924</b>	
<b>ROW and Engineering Costs</b>							
	Right-of-Way Total and Partial Acquisitions	0%	of Bid Items			\$17,659,722	In separate worksheet
	Preliminary and Final Engineering	10%	of Bid Items			\$1,928,037	for design
<b>SUBTOTAL Engineering</b>						<b>\$19,587,758</b>	
<b>PROJECT TOTAL</b>						<b>\$48,528,682</b>	