

Appendix 6. Cost Estimates



City	Project	Cost
Lafayette	Phase 1 - Baseline Road Intersection	\$ 11,200,000.00
Lafayette	Phase 2 and 3 - North Park/Dagny Way to Indian Peak Trail	\$ 17,700,000.00
Lafayette	Phase 2 and 4 - Baseline Road to Paschal Drive	\$ 13,000,000.00
Lafayette	Phase 3 and 4 - Indian Peaks Trail to Baseline Road	\$ 10,600,000.00
Louisville	Phase 1 - South Street Underpass	\$ 9,000,000.00
Louisville	Phase 2 - South of Pine to Short Street (Pine Street Intersection included)	\$ 13,800,000.00
Louisville	Phase 3 - South Boulder Road Intersection and Underpass	\$ 24,500,000.00
Louisville	Phase 4 and 5 - South Boulder Road to Short Street (includes Griffith and Short Street Intersections)	\$ 24,500,000.00
Louisville	Phase 5 and 4 - Paschal Drive to South Boulder Road (include Hecla Drive Intersection)	\$ 21,200,000.00
Louisville	Phase 6 - Pine Street to North of Lock Street/Empire Road	\$ 6,200,000.00

CLASS 5 ESTIMATE

Prepared By: Kimley-Horn
Date: 12/19/2022

Lafayette Phase 1 - Baseline Road Intersection

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
Major Construction Items:				
Removal of Curb and Gutter	2,666	LF	\$ 20.00	\$ 53,320.00
Removal of Asphalt Mat	9,328	SY	\$ 40.00	\$ 373,120.00
Removal of Concrete (Sidewalks)	1,083	SY	\$ 70.00	\$ 75,810.00
Curb and Gutter Type 2 (Section IIB) - Outside edge of Roadway	1,315	LF	\$ 60.00	\$ 78,900.00
Curb and Gutter Type 1 (Section IB) - Medians	1,199	LF	\$ 50.00	\$ 59,950.00
Median Cover Material (Brick Pavers)	4,806	SF	\$ 15.00	\$ 72,090.00
Concrete Pavement (Driveways)	0	SY	\$ 120.00	\$ -
Concrete Curb Ramp	36	SY	\$ 100.00	\$ 3,600.00
Hot Mixed Asphalt (Roadway)	4,683	TON	\$ 175.00	\$ 819,472.50
Hot Mixed Asphalt (Cycle Track)	492	TON	\$ 165.00	\$ 81,239.40
ABC (Class 6)	1,419	CY	\$ 170.00	\$ 241,230.00
Cycle Track Buffer - Median Cover Material (Patterned Concrete)	2,196	SF	\$ 15.00	\$ 32,940.00
Concrete (Pedestrian) Sidewalk	932	SY	\$ 100.00	\$ 93,200.00
Epoxy	32	GAL	\$ 150.00	\$ 4,770.40
Thermoplastic Pavement Markings	3,730	SF	\$ 15.00	\$ 55,950.00
Traffic Signal	1	EA	\$ 600,000.00	\$ 600,000.00
Reconditioning	8,514	SY	\$ 15.00	\$ 127,710.00
			Subtotal A	\$ 2,773,302.30
Minor Construction Items	30% of Subtotal A			\$ 831,990.69
Landscaping/Irrigation	10% of Subtotal A			\$ 277,330.23
Lighting	5% of Subtotal A			\$ 138,665.12
On-site Drainage	15% of Subtotal A			\$ 415,995.35
Off-site Drainage/Water Quality	10% of Subtotal A			\$ 277,330.23
Removal and Resets	5% of Subtotal A			\$ 138,665.12
Signing and Striping	5% of Subtotal A			\$ 138,665.12
Utility Relocation/Protection	25% of Subtotal A			\$ 693,325.58
Construction Stormwater Management (erosion control BMP's)	5% of Subtotal A			\$ 138,665.12
Construction Traffic Control	10% of Subtotal A			\$ 277,330.23
			Subtotal B	\$ 3,327,962.76
Mobilization	10% of Subtotal A+B			\$ 610,126.51
Contingency	30% of Subtotal A+B+Mob.			\$ 2,013,417.47
			Total Construction Costs	\$ 8,724,809.04
Engineering Design (Consultant)	15% of Subtotal			\$ 1,308,721.36
Construction Management (CM, CI, MT)	10% of Subtotal			\$ 872,480.90
Permit fees	1 LS		\$ 8,000.00	\$ 8,000.00
Environmental Clearances/Permits (Consultant Fees)	1 LS			\$ -
Right of Way Acquisition	1 LS		\$ 200,000.00	\$ 200,000.00
			TOTAL	\$ 11,114,011.30
			ROUNDED PROJECT TOTAL (2022 Dollars)	\$ 11,115,000.00

Notes:

1. Unit pricing based on recent bid prices from Denver Metro area projects.
2. Assumptions:
 - A. Temporary easements are accounted for in the minor construction item line.
 - B. Full signal re-build at Baseline Road.
 - C. Permanent acquisition assumed for this segment. Exact price would need to be finalized/negotiated.
 - D. Utility relocation percentage was increased in this location due to the existing transmission lines.

CLASS 5 ESTIMATE

Prepared By: Kimley-Horn
Date: 12/19/2022

Lafayette Phase 2 and 3 - North Park/Dagny Way to Indian Peak Trail

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
Major Construction Items:				
Removal of Curb and Gutter	4,770	LF	\$ 20.00	\$ 95,400.00
Removal of Asphalt Mat	16,055	SY	\$ 40.00	\$ 642,200.00
Removal of Concrete (Sidewalks)	2,001	SY	\$ 70.00	\$ 140,070.00
Curb and Gutter Type 2 (Section IIB) - Outside edge of Roadway	4,874	LF	\$ 60.00	\$ 292,440.00
Curb and Gutter Type 1 (Section IB) - Medians	0	LF	\$ 50.00	\$ -
Median Cover Material (Brick Pavers)	3,600	SF	\$ 15.00	\$ 54,000.00
Concrete Pavement (Driveways)	181	SY	\$ 120.00	\$ 21,720.00
Concrete Curb Ramp	78	SY	\$ 100.00	\$ 7,800.00
Hot Mixed Asphalt (Roadway)	5,603	TON	\$ 175.00	\$ 980,595.00
Hot Mixed Asphalt (Cycle Track)	1,808	TON	\$ 165.00	\$ 298,313.40
ABC (Class 6)	1,698	CY	\$ 170.00	\$ 288,660.00
Cycle Track Buffer - Median Cover Material (Patterned Concrete)	10,746	SF	\$ 15.00	\$ 161,190.00
Concrete (Pedestrian) Sidewalk	3,684	SY	\$ 100.00	\$ 368,400.00
Epoxy	55	GAL	\$ 150.00	\$ 8,300.00
Thermoplastic Pavement Markings	3,380	SF	\$ 15.00	\$ 50,700.00
Traffic Signal	2	EA	\$ 600,000.00	\$ 1,200,000.00
Reconditioning	8,226	SY	\$ 15.00	\$ 123,390.00
			Subtotal A	\$ 4,733,178.40
Minor Construction Items	30% of Subtotal A			\$ 1,419,953.52
Landscaping/Irrigation	10% of Subtotal A			\$ 473,317.84
Lighting	5% of Subtotal A			\$ 236,658.92
On-site Drainage	15% of Subtotal A			\$ 709,976.76
Off-site Drainage/Water Quality	10% of Subtotal A			\$ 473,317.84
Removal and Resets	5% of Subtotal A			\$ 236,658.92
Signing and Striping	5% of Subtotal A			\$ 236,658.92
Utility Relocation/Protection	12% of Subtotal A			\$ 567,981.41
Construction Stormwater Management (erosion control BMP's)	5% of Subtotal A			\$ 236,658.92
Construction Traffic Control	10% of Subtotal A			\$ 473,317.84
			Subtotal B	\$ 5,064,500.89
Mobilization	10% of Subtotal A+B			\$ 979,767.93
Contingency	30% of Subtotal A+B+Mob.			\$ 3,233,234.17
			Total Construction Costs	\$ 14,010,681.38
Engineering Design (Consultant)	15% of Subtotal			\$ 2,101,602.21
Construction Management (CM, CI, MT)	10% of Subtotal			\$ 1,401,068.14
Permit fees	1 LS		\$ 8,000.00	\$ 8,000.00
Environmental Clearances/Permits (Consultant Fees)	1 LS			\$ -
Right of Way Acquisition	1 LS		\$ 100,000.00	\$ 100,000.00
			TOTAL	\$ 17,621,351.73
			ROUNDED PROJECT TOTAL (2022 Dollars)	\$ 17,622,000.00

Notes:

1. Unit pricing based on recent bid prices from Denver Metro area projects.
2. Assumptions:
 - A. Temporary easements are accounted for in the minor construction item line.
 - B. Full signal re-build at Indian Peaks Trail and North Park Drive.
 - C. Permanent acquisition assumed for this segment. Exact price would need to be finalized/negotiated.
 - D. Assumed a 10 inch HMA over 6 inch ABC pavement section.

CLASS 5 ESTIMATE

Prepared By: Kimley-Horn
Date: 12/19/2022

Lafayette Phase 2 and 4 - Baseline Road to Paschal Drive

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
Major Construction Items:				
Removal of Curb and Gutter	5,220	LF	\$ 20.00	\$ 104,400.00
Removal of Asphalt Mat	16,943	SY	\$ 40.00	\$ 677,720.00
Removal of Concrete (Sidewalks)	2,924	SY	\$ 70.00	\$ 204,680.00
Curb and Gutter Type 2 (Section IIB) - Outside edge of Roadway	4,164	LF	\$ 60.00	\$ 249,840.00
Curb and Gutter Type 1 (Section IB) - Medians	0	LF	\$ 50.00	\$ -
Median Cover Material (Brick Pavers)	0	SF	\$ 15.00	\$ -
Concrete Pavement (Driveways)	313	SY	\$ 120.00	\$ 37,560.00
Concrete Curb Ramp	0	SY	\$ 100.00	\$ -
Hot Mixed Asphalt (Roadway)	5,721	TON	\$ 175.00	\$ 1,001,192.50
Hot Mixed Asphalt (Cycle Track)	1,715	TON	\$ 165.00	\$ 282,958.50
ABC (Class 6)	1,733	CY	\$ 170.00	\$ 294,666.67
Cycle Track Buffer - Median Cover Material (Patterned Concrete)	8,145	SF	\$ 15.00	\$ 122,175.00
Concrete (Pedestrian) Sidewalk	3,118	SY	\$ 100.00	\$ 311,800.00
Epoxy	71	GAL	\$ 150.00	\$ 10,721.41
Thermoplastic Pavement Markings	866	SF	\$ 15.00	\$ 12,990.00
Traffic Signal	0	EA	\$ 600,000.00	\$ -
Reconditioning	10,402	SY	\$ 15.00	\$ 156,030.00
			Subtotal A	\$ 3,466,734.07
Minor Construction Items	30% of Subtotal A			\$ 1,040,020.22
Landscaping/Irrigation	10% of Subtotal A			\$ 346,673.41
Lighting	5% of Subtotal A			\$ 173,336.70
On-site Drainage	15% of Subtotal A			\$ 520,010.11
Off-site Drainage/Water Quality	10% of Subtotal A			\$ 346,673.41
Removal and Resets	5% of Subtotal A			\$ 173,336.70
Signing and Striping	5% of Subtotal A			\$ 173,336.70
Utility Relocation/Protection	12% of Subtotal A			\$ 416,008.09
Construction Stormwater Management (erosion control BMP's)	5% of Subtotal A			\$ 173,336.70
Construction Traffic Control	10% of Subtotal A			\$ 346,673.41
			Subtotal B	\$ 3,709,405.46
Mobilization	10% of Subtotal A+B			\$ 717,613.95
Contingency	30% of Subtotal A+B+Mob.			\$ 2,368,126.05
			Total Construction Costs	\$ 10,261,879.53
Engineering Design (Consultant)	15% of Subtotal			\$ 1,539,281.93
Construction Management (CM, CI, MT)	10% of Subtotal			\$ 1,026,187.95
Permit fees	1 LS		\$ 8,000.00	\$ 8,000.00
Environmental Clearances/Permits (Consultant Fees)	1 LS			\$ -
Right of Way Acquisition	1 LS		\$ 200,000.00	\$ 200,000.00
			TOTAL	\$ 13,035,349.42
			ROUNDED PROJECT TOTAL (2022 Dollars)	\$ 13,036,000.00

Notes:

1. Unit pricing based on recent bid prices from Denver Metro area projects.
2. Assumptions:
 - A. Temporary easements are accounted for in the minor construction item line.
 - B. Permanent acquisition assumed for this segment. Exact price would need to be finalized/negotiated.
 - C. Assumed a 10 inch HMA over 6 inch ABC pavement section.

CLASS 5 ESTIMATE

Prepared By: Kimley-Horn
Date: 12/19/2022

Lafayette Phase 3 and 4 - Indian Peaks to Baseline

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
Major Construction Items:				
Removal of Curb and Gutter	4,972	LF	\$ 15.00	\$ 74,580.00
Removal of Asphalt Mat	15,498	SY	\$ 25.00	\$ 387,450.00
Removal of Concrete (Sidewalks)	3,979	SY	\$ 15.00	\$ 59,685.00
Curb and Gutter Type 2 (Section IIB) - Outside edge of Roadway	4,742	LF	\$ 40.00	\$ 189,680.00
Curb and Gutter Type 1 (Section IB) - Medians	140	LF	\$ 50.00	\$ 7,000.00
Median Cover Material (Brick Pavers)	567	SF	\$ 15.00	\$ 8,505.00
Concrete Pavement (Driveways)	0	SY	\$ 100.00	\$ -
Concrete Curb Ramp	44	SY	\$ 215.00	\$ 9,460.00
Hot Mixed Asphalt (Roadway)	5,838	TON	\$ 175.00	\$ 1,021,693.75
Hot Mixed Asphalt (Cycle Track)	1,801	TON	\$ 165.00	\$ 297,224.40
ABC (Class 6)	1,769	CY	\$ 100.00	\$ 176,916.67
Cycle Track Buffer - Median Cover Material (Patterned Concrete)	8,892	SF	\$ 15.00	\$ 133,380.00
Concrete (Pedestrian) Sidewalk	3,497	SY	\$ 100.00	\$ 349,700.00
Epoxy	68	GAL	\$ 150.00	\$ 10,133.19
Thermoplastic Pavement Markings	492	SF	\$ 15.00	\$ 7,380.00
Traffic Signal	0	EA	\$ 600,000.00	\$ -
Reconditioning	10,615	SY	\$ 5.00	\$ 53,075.00
			Subtotal A	\$ 2,785,863.01
Minor Construction Items	30% of Subtotal A			\$ 835,758.90
Landscaping/Irrigation	10% of Subtotal A			\$ 278,586.30
Lighting	5% of Subtotal A			\$ 139,293.15
On-site Drainage	15% of Subtotal A			\$ 417,879.45
Off-site Drainage/Water Quality	10% of Subtotal A			\$ 278,586.30
Removal and Resets	5% of Subtotal A			\$ 139,293.15
Signing and Striping	5% of Subtotal A			\$ 139,293.15
Utility Relocation/Protection	12% of Subtotal A			\$ 334,303.56
Construction Stormwater Management (erosion control BMP's)	5% of Subtotal A			\$ 139,293.15
Construction Traffic Control	10% of Subtotal A			\$ 278,586.30
			Subtotal B	\$ 2,980,873.42
Mobilization	10% of Subtotal A+B			\$ 576,673.64
Contingency	30% of Subtotal A+B+Mob.			\$ 1,903,023.02
			Total Construction Costs	\$ 8,246,433.09
Engineering Design (Consultant)	15% of Subtotal			\$ 1,236,964.96
Construction Management (CM, CI, MT)	10% of Subtotal			\$ 824,643.31
Permit fees	1 LS		\$ 8,000.00	\$ 8,000.00
Environmental Clearances/Permits (Consultant Fees)	1 LS			\$ -
Right of Way Acquisition	1 LS		\$ 200,000.00	\$ 200,000.00
			TOTAL	\$ 10,516,041.36
			ROUNDED PROJECT TOTAL (2022 Dollars)	\$ 10,517,000.00

Notes:

1. Unit pricing based on recent bid prices from Denver Metro area projects.
2. Assumptions:
 - A. Temporary easements are accounted for in the minor construction item line.
 - B. Permanent acquisition assumed for this segment. Exact price would need to be finalized/negotiated.
 - C. Assumed a 10 inch HMA over 6 inch ABC pavement section.

CLASS 5 ESTIMATE see definition

Prepared By: Kimley-Horn
Date: 12/19/2022

Louisville Phase 1 - South Street Underpass

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
Major Construction Items:				
Clearing and Grubbing	1	LS	\$ 15,000.00	\$ 15,000.00
Removal of Tree	2	EA	\$ 700.00	\$ 1,400.00
Removal of Inlet	3	EA	\$ 1,700.00	\$ 5,100.00
Removal of Manhole	2	EA	\$ 900.00	\$ 1,800.00
Removal of Pipe	925	LF	\$ 35.00	\$ 32,375.00
Reset Fire Hydrant	2	EA	\$ 7,000.00	\$ 14,000.00
Removal of Sidewalk	280	SY	\$ 30.00	\$ 8,400.00
Removal of Asphalt Mat	1,480	SY	\$ 9.00	\$ 13,320.00
Removal of Gutter	300	LF	\$ 16.00	\$ 4,800.00
Removal of Curb and Gutter	700	LF	\$ 13.00	\$ 9,100.00
Rem Conc Curb Ramp	130	SY	\$ 30.00	\$ 3,900.00
Sawing Asphalt Material (10 Inch)	40	LF	\$ 8.00	\$ 320.00
Unclassified Excavation (Complete In Place)	2,630	CY	\$ 30.00	\$ 78,900.00
Structure Excavation	13,720	CY	\$ 30.00	\$ 411,600.00
Structure Backfill (Class 1)	60	CY	\$ 42.00	\$ 2,520.00
Aggregate Base Course (Class 6)	840	CY	\$ 55.00	\$ 46,200.00
Hot Mix Asphalt (Patching) (Asphalt)	160	SY	\$ 72.00	\$ 11,520.00
Retaining Wall	6,395	SF	\$ 100.00	\$ 639,450.00
Pedestrian Railing (48 Inch)	80	LF	\$ 180.00	\$ 14,400.00
14 Foot Concrete Box Culvert (Precast)	100	LF	\$ 3,000.00	\$ 300,000.00
8 Inch Sewer Pipe	865	LF	\$ 80.00	\$ 69,200.00
Manhole Box Base (10 Foot)	6	EA	\$ 15,000.00	\$ 90,000.00
Guardrail Type 3 (6-3 Post Spacing)	60	LF	\$ 30.00	\$ 1,800.00
Concrete Sidewalk	280	SY	\$ 70.00	\$ 19,600.00
Concrete Bikeway (6 Inch)	770	SY	\$ 70.00	\$ 53,900.00
Brick Pavers	2,970	SF	\$ 50.00	\$ 148,500.00
Curb and Gutter Type 2 (Section II-B)	170	LF	\$ 36.00	\$ 6,120.00
Median Cover (6 in Pattern Conc)	960	SF	\$ 16.00	\$ 15,360.00
Proposed Underpass Drainage	1	LS	\$ 100,000.00	\$ 100,000.00
Waterline Relocation/Lowering	1	LS	\$ 75,000.00	\$ 75,000.00
Sanitary Encasement	1	LS	\$ 3,000.00	\$ 3,000.00
Bollard	3	EA	\$ 600.00	\$ 1,800.00
			Subtotal A	\$ 2,198,385.00
Minor Construction Items	30% of Subtotal A			\$ 659,515.50
Landscaping/Irrigation	10% of Subtotal A			\$ 219,838.50
Lighting	5% of Subtotal A			\$ 109,919.25
On-site Drainage	15% of Subtotal A			\$ 329,757.75
Off-site Drainage/Water Quality	10% of Subtotal A			\$ 219,838.50
Removal and Resets	5% of Subtotal A			\$ 109,919.25
Signing and Striping	5% of Subtotal A			\$ 109,919.25
Utility Relocation/Protection	12% of Subtotal A			\$ 263,806.20
Construction Stormwater Management (erosion control BMP's)	5% of Subtotal A			\$ 109,919.25
Construction Traffic Control	10% of Subtotal A			\$ 219,838.50
			Subtotal B	\$ 2,352,271.95
Mobilization	10% of Subtotal A+B			\$ 455,065.70
Contingency	30% of Subtotal A+B+Mob.			\$ 1,501,716.79
			Total Construction Costs	\$ 6,507,439.44
Engineering Design (Consultant)	15% of Subtotal			\$ 976,115.92
Construction Management (CM, CI, MT)	10% of Subtotal			\$ 650,743.94
Permit fees	1 LS		\$ 8,000.00	\$ 8,000.00
Environmental Clearances/Permits (Consultant Fees)	1 LS			\$ -
Right of Way and Easement	1 LS		\$ 500,000.00	\$ 500,000.00
			TOTAL	\$ 8,642,299.30
			ROUNDED PROJECT TOTAL (2022 Dollars)	\$ 8,643,000.00

Notes:

- Unit pricing based on recent bid prices from Denver Metro area projects.
- Assumptions:
 - Temporary easements are accounted for in the minor construction item line.
 - Full signal re-build at Pine Street.
 - Permanent acquisition assumed for this segment. Exact price would need to be finalized/negotiated.
 - Assumed a 10 inch HMA over 6 inch ABC pavement section.

CLASS 5 ESTIMATE

Prepared By: Kimley-Horn
Date: 12/19/2022

Louisville Phase 2 - South of Pine to Short Street (Pine Street Intersection)

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
Major Construction Items:				
Removal of Curb and Gutter	2,865	LF	\$ 20.00	\$ 57,300.00
Removal of Asphalt Mat	15,215	SY	\$ 40.00	\$ 608,600.00
Removal of Concrete (Sidewalks)	2,027	SY	\$ 70.00	\$ 141,890.00
Curb and Gutter Type 2 (Section IIB) - Outside edge of Roadway	2,903	LF	\$ 60.00	\$ 174,180.00
Curb and Gutter Type 1 (Section IB) - Medians	2,320	LF	\$ 50.00	\$ 116,000.00
Median Cover Material (Brick Pavers)	7,749	SF	\$ 15.00	\$ 116,235.00
Concrete Pavement (Driveways)	193	SY	\$ 120.00	\$ 23,160.00
Concrete Curb Ramp	71	SY	\$ 100.00	\$ 7,100.00
Hot Mixed Asphalt (Roadway)	4,445	TON	\$ 175.00	\$ 777,796.25
Hot Mixed Asphalt (Cycle Track)	857	TON	\$ 165.00	\$ 141,352.20
ABC (Class 6)	1,347	CY	\$ 170.00	\$ 228,961.67
Cycle Track Buffer - Median Cover Material (Patterned Concrete)	7,578	SF	\$ 15.00	\$ 113,670.00
Retaining Wall (Assumed 3-4' Block Wall)	662	LF	\$ 220.00	\$ 145,640.00
Concrete (Pedestrian) Sidewalk	1,913	SY	\$ 100.00	\$ 191,300.00
Epoxy	19	GAL	\$ 150.00	\$ 2,778.45
Thermoplastic Pavement Markings	2,238	SF	\$ 15.00	\$ 33,570.00
Traffic Signal	1	EA	\$ 600,000.00	\$ 600,000.00
Reconditioning	8,081	SY	\$ 15.00	\$ 121,215.00
			Subtotal A	\$ 3,600,748.56
Minor Construction Items	30% of Subtotal A			\$ 1,080,224.57
Landscaping/Irrigation	10% of Subtotal A			\$ 360,074.86
Lighting	5% of Subtotal A			\$ 180,037.43
On-site Drainage	15% of Subtotal A			\$ 540,112.28
Off-site Drainage/Water Quality	10% of Subtotal A			\$ 360,074.86
Removal and Resets	5% of Subtotal A			\$ 180,037.43
Signing and Striping	5% of Subtotal A			\$ 180,037.43
Utility Relocation/Protection	12% of Subtotal A			\$ 432,089.83
Construction Stormwater Management (erosion control BMP's)	5% of Subtotal A			\$ 180,037.43
Construction Traffic Control	10% of Subtotal A			\$ 360,074.86
			Subtotal B	\$ 3,852,800.96
Mobilization	10% of Subtotal A+B			\$ 745,354.95
Contingency	30% of Subtotal A+B+Mob.			\$ 2,459,671.34
			Total Construction Costs	\$ 10,658,575.83
Engineering Design (Consultant)	15% of Subtotal			\$ 1,598,786.37
Construction Management (CM, CI, MT)	10% of Subtotal			\$ 1,065,857.58
Permit fees	1 LS		\$ 8,000.00	\$ 8,000.00
Environmental Clearances/Permits (Consultant Fees)	1 LS			\$ -
Right of Way Acquisition	1 LS		\$ 500,000.00	\$ 500,000.00
			TOTAL	\$ 13,831,219.78
			ROUNDED PROJECT TOTAL (2022 Dollars)	\$ 13,832,000.00

Notes:

1. Unit pricing based on recent bid prices from Denver Metro area projects.
2. Assumptions:
 - A. Temporary easements are accounted for in the minor construction item line.
 - B. Full signal re-build at Pine Street.
 - C. Permanent acquisition assumed for this segment. Exact price would need to be finalized/negotiated.
 - D. Assumed a 10 inch HMA over 6 inch ABC pavement section.

CLASS 5 ESTIMATE

Prepared By: Kimley-Horn
Date: 12/19/2022

Louisville Phase 3 South Boulder Road Intersection and Underpass

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
Major Construction Items:				
Removal of Curb and Gutter	1,567	LF	\$ 20.00	\$ 31,340.00
Removal of Asphalt Mat	7,928	SY	\$ 40.00	\$ 317,120.00
Removal of Concrete (Sidewalks)	952	SY	\$ 70.00	\$ 66,640.00
Curb and Gutter Type 2 (Section IIB) - Outside edge of Roadway	1,484	LF	\$ 60.00	\$ 89,040.00
Curb and Gutter Type 1 (Section IB) - Medians	2,269	LF	\$ 50.00	\$ 113,450.00
Median Cover Material (Brick Pavers)	6,939	SF	\$ 15.00	\$ 104,085.00
Concrete Pavement (Driveways)	0	SY	\$ 120.00	\$ -
Concrete Curb Ramp	35	SY	\$ 100.00	\$ 3,500.00
Hot Mixed Asphalt (Roadway)	4,360	TON	\$ 175.00	\$ 763,070.00
Hot Mixed Asphalt (Cycle Track)	828	TON	\$ 165.00	\$ 136,633.20
ABC (Class 6)	1,321	CY	\$ 170.00	\$ 224,626.67
Cycle Track Buffer - Median Cover Material (Patterned Concrete)	16,938	SF	\$ 15.00	\$ 254,070.00
Retaining Wall (Assumed 3-4' Block Wall)	0	LF	\$ 220.00	\$ -
Concrete (Pedestrian) Sidewalk	990	SY	\$ 100.00	\$ 99,000.00
Epoxy	19	GAL	\$ 150.00	\$ 2,778.45
Thermoplastic Pavement Markings	2,238	SF	\$ 15.00	\$ 33,570.00
Traffic Signal	1	EA	\$ 600,000.00	\$ 600,000.00
Reconditioning	7,928	SY	\$ 15.00	\$ 118,920.00
			Subtotal A	\$ 2,957,843.31
Minor Construction Items	30% of Subtotal A			\$ 887,352.99
Landscaping/Irrigation	10% of Subtotal A			\$ 295,784.33
Lighting	5% of Subtotal A			\$ 147,892.17
On-site Drainage	15% of Subtotal A			\$ 443,676.50
Off-site Drainage/Water Quality	10% of Subtotal A			\$ 295,784.33
Removal and Resets	5% of Subtotal A			\$ 147,892.17
Signing and Striping	5% of Subtotal A			\$ 147,892.17
Utility Relocation/Protection	12% of Subtotal A			\$ 354,941.20
Construction Stormwater Management (erosion control BMP's)	5% of Subtotal A			\$ 147,892.17
Construction Traffic Control	10% of Subtotal A			\$ 295,784.33
			Subtotal B	\$ 3,164,892.35
Mobilization	10% of Subtotal A+B			\$ 612,273.57
Contingency	30% of Subtotal A+B+Mob.			\$ 2,020,502.77
			Total Construction Costs	\$ 8,755,512.00
Engineering Design (Consultant)	15% of Subtotal			\$ 1,313,326.80
Construction Management (CM, CI, MT)	10% of Subtotal			\$ 875,551.20
Permit fees	1 LS		\$ 8,000.00	\$ 8,000.00
Environmental Clearances/Permits (Consultant Fees)	1 LS			\$ -
South Boulder Road Underpass (North/South)	1 EA		\$ 5,000,000.00	\$ 5,000,000.00
South Boulder Road Underpass (East/West)	1 EA		\$ 5,000,000.00	\$ 5,000,000.00
Right of Way Acquisition	1 LS		\$ 3,500,000.00	\$ 3,500,000.00
			TOTAL	\$ 24,452,390.00
			ROUNDED PROJECT TOTAL (2022 Dollars)	\$ 24,453,000.00

Notes:

1. Unit pricing based on recent bid prices from Denver Metro area projects.
2. Assumptions:
 - A. Temporary easements are accounted for in the minor construction item line.
 - B. Full signal re-build at South Boulder Road
 - C. Permanent acquisition assumed for this segment. Exact price would need to be finalized/negotiated.
 - D. Assumed a 10 inch HMA over 6 inch ABC pavement section.
 - E. Assumed a 10 inch HMA over 6 inch ABC pavement section.

CLASS 5 ESTIMATE see definition

Public Works Department - City of Louisville

Prepared By: Kimley-Horn

For: Kurt Kowar
Date: 12/19/2022

Louisville Phase 4 & 5 - SBR to Short Street (Includes Griffith and Short Street Intersections)

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
Major Construction Items:				
Removal of Curb and Gutter	4,604	LF	\$ 20.00	\$ 92,080.00
Removal of Asphalt Mat	14,806	SY	\$ 40.00	\$ 592,240.00
Removal of Concrete (Sidewalks)	1,286	SY	\$ 70.00	\$ 90,020.00
Curb and Gutter Type 2 (Section IIB) - Outside edge of Roadway	5,030	LF	\$ 60.00	\$ 301,800.00
Curb and Gutter Type 1 (Section IB) - Medians	3,697	LF	\$ 50.00	\$ 184,850.00
Median Cover Material (Brick Pavers)	15,588	SF	\$ 15.00	\$ 233,820.00
Concrete Pavement (Driveways)	612	SY	\$ 120.00	\$ 73,440.00
Concrete Curb Ramp	154	SY	\$ 100.00	\$ 15,400.00
Hot Mixed Asphalt (Roadway)	7,651	TON	\$ 175.00	\$ 1,338,837.50
Hot Mixed Asphalt (Cycle Track)	6,120	TON	\$ 165.00	\$ 1,009,866.00
ABC (Class 6)	2,318	CY	\$ 170.00	\$ 394,116.67
Cycle Track Buffer - Median Cover Material (Patterned Concrete)	8,244	SF	\$ 15.00	\$ 123,660.00
Retaining Wall (Assumed 3-4' Block Wall)	386	LF	\$ 220.00	\$ 84,920.00
Concrete (Pedestrian) Sidewalk	2,879	SY	\$ 100.00	\$ 287,900.00
Epoxy	11	GAL	\$ 150.00	\$ 1,704.96
Thermoplastic Pavement Markings	3,750	SF	\$ 15.00	\$ 56,250.00
Traffic Signal	2	EA	\$ 600,000.00	\$ 1,200,000.00
Reconditioning	13,910	SY	\$ 15.00	\$ 208,650.00
			Subtotal A	\$ 6,289,555.12
Minor Construction Items	30% of Subtotal A			\$ 1,886,866.54
Landscaping/Irrigation	10% of Subtotal A			\$ 628,955.51
Lighting	5% of Subtotal A			\$ 314,477.76
On-site Drainage	15% of Subtotal A			\$ 943,433.27
Off-site Drainage/Water Quality	10% of Subtotal A			\$ 628,955.51
Removal and Resets	5% of Subtotal A			\$ 314,477.76
Signing and Striping	5% of Subtotal A			\$ 314,477.76
Utility Relocation/Protection	12% of Subtotal A			\$ 754,746.61
Construction Stormwater Management (erosion control BMP's)	5% of Subtotal A			\$ 314,477.76
Construction Traffic Control	10% of Subtotal A			\$ 628,955.51
			Subtotal B	\$ 6,729,823.98
Mobilization	10% of Subtotal A+B			\$ 1,301,937.91
Contingency	30% of Subtotal A+B+Mob.			\$ 4,296,395.10
			Total Construction Costs	\$ 18,617,712.12
Engineering Design (Consultant)	15% of Subtotal			\$ 2,792,656.82
Construction Management (CM, CI, MT)	10% of Subtotal			\$ 1,861,771.21
Permit fees	1 LS		\$ 8,000.00	\$ 8,000.00
Environmental Clearances/Permits (Consultant Fees)	1 LS			\$ -
Right of Way Acquisition	1 LS		\$ 500,000.00	\$ 500,000.00
			TOTAL	\$ 23,780,140.15
			ROUNDED PROJECT TOTAL (2022 Dollars)	\$ 23,781,000.00

Notes:

1. Unit pricing based on recent bid prices from Denver Metro area projects.
2. Assumptions:
 - A. Temporary easements are accounted for in the minor construction item line.
 - B. Full signal re-build at Griffith Street and Short Street
 - C. Permanent acquisition assumed for this segment. Exact price would need to be finalized/negotiated.
 - D. Assumed a 10 inch HMA over 6 inch ABC pavement section.

CLASS 5 ESTIMATE

Prepared By: Kimley-Horn
Date: 12/19/2022

Louisville Phase 5 & 4 Paschal Drive to SBR (Including Hecla Intersection)

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
Major Construction Items:				
Removal of Curb and Gutter	6,615	LF	\$ 20.00	\$ 132,300.00
Removal of Asphalt Mat	18,126	SY	\$ 40.00	\$ 725,040.00
Removal of Concrete (Sidewalks)	1,956	SY	\$ 70.00	\$ 136,920.00
Curb and Gutter Type 2 (Section IIB) - Outside edge of Roadway	5,298	LF	\$ 60.00	\$ 317,880.00
Curb and Gutter Type 1 (Section IB) - Medians	2,289	LF	\$ 50.00	\$ 114,450.00
Median Cover Material (Brick Pavers)	10,476	SF	\$ 15.00	\$ 157,140.00
Concrete Pavement (Driveways)	170	SY	\$ 120.00	\$ 20,400.00
Concrete Curb Ramp	161	SY	\$ 100.00	\$ 16,100.00
Hot Mixed Asphalt (Roadway)	7,686	TON	\$ 175.00	\$ 1,344,997.50
Hot Mixed Asphalt (Cycle Track)	1,482	TON	\$ 165.00	\$ 244,589.40
ABC (Class 6)	2,329	CY	\$ 170.00	\$ 395,930.00
Cycle Track Buffer - Median Cover Material (Patterned Concrete)	7,245	SF	\$ 15.00	\$ 108,675.00
Retaining Wall (Assumed 3-4' Block Wall)	0	LF	\$ 220.00	\$ -
Concrete (Pedestrian) Sidewalk	3,771	SY	\$ 100.00	\$ 377,100.00
Epoxy	46	GAL	\$ 150.00	\$ 6,867.46
Thermoplastic Pavement Markings	4,240	SF	\$ 15.00	\$ 63,600.00
Traffic Signal	2	EA	\$ 600,000.00	\$ 1,200,000.00
Reconditioning	13,974	SY	\$ 15.00	\$ 209,610.00
			Subtotal A	\$ 5,571,599.36
Minor Construction Items	30% of Subtotal A			\$ 1,671,479.81
Landscaping/Irrigation	10% of Subtotal A			\$ 557,159.94
Lighting	5% of Subtotal A			\$ 278,579.97
On-site Drainage	15% of Subtotal A			\$ 835,739.90
Off-site Drainage/Water Quality	10% of Subtotal A			\$ 557,159.94
Removal and Resets	5% of Subtotal A			\$ 278,579.97
Signing and Striping	5% of Subtotal A			\$ 278,579.97
Utility Relocation/Protection	12% of Subtotal A			\$ 668,591.92
Construction Stormwater Management (erosion control BMP's)	5% of Subtotal A			\$ 278,579.97
Construction Traffic Control	10% of Subtotal A			\$ 557,159.94
			Subtotal B	\$ 5,961,611.31
Mobilization	10% of Subtotal A+B			\$ 1,153,321.07
Contingency	30% of Subtotal A+B+Mob.			\$ 3,805,959.52
			Total Construction Costs	\$ 16,492,491.26
Engineering Design (Consultant)	15% of Subtotal			\$ 2,473,873.69
Construction Management (CM, CI, MT)	10% of Subtotal			\$ 1,649,249.13
Permit fees	1 LS		\$ 8,000.00	\$ 8,000.00
Environmental Clearances/Permits (Consultant Fees)	1 LS			\$ -
Right of Way Acquisition	1 LS		\$ 500,000.00	\$ 500,000.00
			TOTAL	\$ 21,123,614.07
			ROUNDED PROJECT TOTAL (2022 Dollars)	\$ 21,124,000.00

Notes:

1. Unit pricing based on recent bid prices from Denver Metro area projects.
2. Assumptions:
 - A. Temporary easements are accounted for in the minor construction item line.
 - B. Full signal re-build at Paschal Drive and Hecla Drive
 - C. Permanent acquisition assumed for this segment. Exact price would need to be finalized/negotiated.
 - D. Assumed a 10 inch HMA over 6 inch ABC pavement section

CLASS 5 ESTIMATE

Prepared By: Kimley-Horn
Date: 12/19/2022

Louisville Phase 6 - Pine Street to North of Lock Street/Empire Road

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
Major Construction Items:				
Removal of Curb and Gutter	2,135	LF	\$ 20.00	\$ 42,700.00
Removal of Asphalt Mat	6,273	SY	\$ 40.00	\$ 250,920.00
Removal of Concrete (Sidewalks)	421	SY	\$ 70.00	\$ 29,470.00
Curb and Gutter Type 2 (Section IIB) - Outside edge of Roadway	2,072	LF	\$ 60.00	\$ 124,320.00
Curb and Gutter Type 1 (Section IB) - Medians	2,055	LF	\$ 50.00	\$ 102,750.00
Median Cover Material (Brick Pavers)	12,447	SF	\$ 15.00	\$ 186,705.00
Concrete Pavement (Driveways)	0	SY	\$ 120.00	\$ -
Concrete Curb Ramp	0	SY	\$ 100.00	\$ -
Hot Mixed Asphalt (Roadway)	2,287	TON	\$ 175.00	\$ 400,207.50
Hot Mixed Asphalt (Cycle Track)	608	TON	\$ 165.00	\$ 100,260.60
ABC (Class 6)	693	CY	\$ 170.00	\$ 117,810.00
Cycle Track Buffer - Median Cover Material (Patterned Concrete)	460	SF	\$ 15.00	\$ 6,900.00
Retaining Wall (Assumed 3-4' Block Wall)	0	LF	\$ 220.00	\$ -
Concrete (Pedestrian) Sidewalk	1,700	SY	\$ 100.00	\$ 170,000.00
Epoxy	3	GAL	\$ 150.00	\$ 480.17
Thermoplastic Pavement Markings	404	SF	\$ 15.00	\$ 6,060.00
Traffic Signal	0	EA	\$ 600,000.00	\$ -
Reconditioning	4,158	SY	\$ 15.00	\$ 62,370.00
			Subtotal A	\$ 1,600,953.27
Minor Construction Items	30% of Subtotal A			\$ 480,285.98
Landscaping/Irrigation	10% of Subtotal A			\$ 160,095.33
Lighting	5% of Subtotal A			\$ 80,047.66
On-site Drainage	15% of Subtotal A			\$ 240,142.99
Off-site Drainage/Water Quality	10% of Subtotal A			\$ 160,095.33
Removal and Resets	5% of Subtotal A			\$ 80,047.66
Signing and Striping	5% of Subtotal A			\$ 80,047.66
Utility Relocation/Protection	12% of Subtotal A			\$ 192,114.39
Construction Stormwater Management (erosion control BMP's)	5% of Subtotal A			\$ 80,047.66
Construction Traffic Control	10% of Subtotal A			\$ 160,095.33
			Subtotal B	\$ 1,713,020.00
Mobilization	10% of Subtotal A+B			\$ 331,397.33
Contingency	30% of Subtotal A+B+Mob.			\$ 1,093,611.18
			Total Construction Costs	\$ 4,738,981.78
Engineering Design (Consultant)	15% of Subtotal			\$ 710,847.27
Construction Management (CM, CI, MT)	10% of Subtotal			\$ 473,898.18
Permit fees	1 LS		\$ 8,000.00	\$ 8,000.00
Environmental Clearances/Permits (Consultant Fees)	1 LS			\$ -
Right of Way Acquisition	1 LS		\$ 200,000.00	\$ 200,000.00
			TOTAL	\$ 6,131,727.23
			ROUNDED PROJECT TOTAL (2022 Dollars)	\$ 6,132,000.00

Notes:

1. Unit pricing based on recent bid prices from Denver Metro area projects.
2. Assumptions:
 - A. Temporary easements are accounted for in the minor construction item line.
 - B. Cost does not include any roundabout or signal work at the Empire Road intersection. Tie-in will occur just north of Lock Street/Empire Road.
 - C. Permanent acquisition assumed for this segment. Exact price would need to be finalized/negotiated.
 - D. Assumed a 10 inch HMA over 6 inch ABC pavement section