

Opinion of Probable Cost

Client: Nelson\Nygaard					
Project Name: Stockton Boulevard Corridor Study (Total)					
Project Location: Stockton Boulevard - Alhambra Blvd to 47th Ave.					
WSP Project Number: 193206					
Date of Estimate: 11/24/2020					
ITEM No.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
Roadway					
1	Minor CONCRETE (Curb Ramp)	EA	106	\$6,000	\$636,000
2	Minor CONCRETE (Curb)	LF	12602	\$30	\$378,057
3	Minor CONCRETE (Curb and Gutter)	LF	20386	\$50	\$1,019,321
4	Minor CONCRETE (Driveways)	EA	69	\$4,000	\$276,000
5	Minor CONCRETE (Sidewalk & Shared path)	SF	260320	\$12	\$3,123,835
6	Minor Concrete (Median)	SF	21185	\$10	\$211,853
7	Roadway Excavation	CY	4555	\$130	\$592,093
8	HMA (Type A)	TON	18084	\$150	\$2,712,546
9	Class 2 Aggregate Base	CY	10560	\$200	\$2,111,923
10	HMA overlay & Cold Plane AC	SY	162780	\$35	\$5,697,297
11	Storm Drain Work	LS	3	\$380,000	\$1,140,000
12	6" Thermoplastic Stripe	LF	95870	\$1.00	\$95,870
13	8" Thermoplastic Stripe	LF	19992	\$1.25	\$24,990
14	Thermoplastic Pavement Marking	SF	28089	\$10.00	\$280,889
15	Green MMA (Methyl Methacrylate)	SF	7646	\$10	\$76,462
16	Red Colored Paint	SF	94717	\$15	\$1,420,759
17	Channelizers (Surface mounted)	EA	604	\$50	\$30,200
18	Remove Existing Street Light	EA	150	\$1,500	\$225,000
19	Bus Shelter cost	EA	18	\$10,000	\$180,000
20	Landscaping - planting and irrigation	LS	2	\$590,000	\$1,180,000
21	Clearing and Grubbing	LS	3	\$20,000	\$60,000
Electrical					
22	Signal Modification	EA	11	\$350,000	\$3,850,000
23	New Traffic Signal	EA	6	\$750,000	\$4,500,000
24	Pedestrian Half Signals	EA	14	\$125,000	\$1,750,000
25	Signal Modification - 14th St.	EA	2	\$50,000	\$100,000
26	Install Ornamental Street Light	EA	150	\$7,000	\$1,050,000
27	Interconnect labor & Material	LS	3	\$434,000	\$1,302,000
				SUB TOTAL	\$34,025,096
	Minor Items (5%)	LS			\$1,701,255
	Traffic Control Detour, Maintenance (10%)	LS			\$3,402,510
	Mobilization (10%)	LS			\$3,402,509.56
				SUB TOTAL	\$42,531,369
				CONTINGENCY (35%)	\$11,908,783
				CONSTRUCTION TOTAL	\$54,440,153

Total	\$54,450,000
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Project Delivery Costs	
Preliminary Engineering & Environmental (10%)	\$5,445,000
Right of Way/TCEs (3%)	\$1,633,500
Final Design (18%)	\$9,801,000
Construction Management (18%)	\$9,801,000

Total	\$26,680,500
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Percentage of Construction cost (without ROW)	46%
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Total	\$81,130,500
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List of Assumptions:

- The number of street lights to be removed and installed is approximate. No topo available this phase.
- Adjusting pull boxes, valve cover boxes, and manhole covers to grade not included in this estimate.
- Per Caltrans specification section 84-2.04, this estimate assumes contractor will be spraying thermoplastic traffic stripes, thus double stripes were counted as a single stripe
- Yellow Traffic Stripe is assumed to be non-hazardous
- For purposes of calculating Roadway Excavation from widening areas and bus shelter landscape areas, a structural depth of 18" of depth was assumed
- Landscaping cost assumed to be \$5/sf, including landscape irrigation.
- Utility Pole relocations are not included. It is assumed utility pole relocations are the responsibility of the utility owners.
- A 2" HMA overlay thickness assumed based on the PCI provided
- All existing Streetlights will be removed within the project limits, regardless of sidewalk improvements. New ornamental street lights will be installed within project limits.
- No Drainage improvements required where curb & gutter will be replaced in place.
- Interconnect does not account for any new equipment such as cabinets or mast arms that is already accounted for in the New Signal & Modify Signal Line Item costs

Opinion of Probable Cost

Client: Nelson\Nygaard					
Project Name: Stockton Boulevard Corridor Study (North Segment)					
Project Location: Stockton Boulevard - Alhambra Blvd to Broadway					
WSP Project Number: 193206					
Date of Estimate: 11/24/2020					
ITEM No.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
Roadway					
1	Minor CONCRETE (Curb Ramp)	EA	34	\$6,000	\$204,000
2	Minor CONCRETE (Curb)	LF	8938	\$30	\$268,140
3	Minor CONCRETE (Curb and Gutter)	LF	5289	\$50	\$264,450
4	Minor CONCRETE (Driveways)	EA	8	\$4,000	\$32,000
5	Minor CONCRETE (Sidewalk & Shared path)	SF	64128	\$12	\$769,532
6	Minor Concrete (Median)	SF	19403	\$10	\$194,026
7	Roadway Excavation	CY	2265	\$130	\$294,409
8	HMA (Type A)	TON	5726	\$150	\$858,865
9	Class 2 Aggregate Base	CY	2445	\$200	\$489,082
10	HMA overlay & Cold Plane AC	SY	49131	\$35	\$1,719,590
11	Storm Drain Work	LS	1	\$380,000	\$380,000
12	6" Thermoplastic Stripe	LF	35274	\$1.00	\$35,274
13	8" Thermoplastic Stripe	LF	5636	\$1.25	\$7,045
14	Thermoplastic Pavement Marking	SF	12934	\$10.00	\$129,335
15	Green MMA (Methyl Methacrylate)	SF	1687	\$10	\$16,874
16	Remove Existing Street Light	EA	50	\$1,500	\$75,000
17	Bus Shelter cost	EA	2	\$10,000	\$20,000
18	Landscaping - planting and irrigation	LS	1	\$590,000	\$590,000
19	Clearing and Grubbing	LS	1	\$20,000	\$20,000
Electrical					
20	Signal Modification	EA	6	\$350,000	\$2,100,000
21	New Traffic Signal	EA	3	\$750,000	\$2,250,000
22	Pedestrian Half Signals	EA	1	\$125,000	\$125,000
23	Install Ornamental Street Light	EA	50	\$7,000	\$350,000
24	Interconnect labor & Material	LS	1	\$434,000	\$434,000
				SUB TOTAL	\$11,626,621
	Minor Items (5%)	LS			\$581,331
	Traffic Control Detour, Maintenance (10%)	LS			\$1,162,662
	Mobilization (10%)	LS			\$1,162,662.13
				SUB TOTAL	\$14,533,277
				CONTINGENCY (35%)	\$4,069,317
				CONSTRUCTION TOTAL	\$18,602,594

Total	\$18,610,000
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Project Delivery Costs	
Preliminary Engineering & Environmental (10%)	\$1,861,000
Right of Way/TCEs (3%)	\$558,300
Final Design (18%)	\$3,349,800
Construction Management (18%)	\$3,349,800

Total	\$9,118,900
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Percentage of Construction cost (without ROW)	46%
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List of Assumptions:

1. The number of street lights to be removed and installed is approximate. No topo available this phase.
2. Adjusting pull boxes, valve cover boxes, and manhole covers to grade not included in this estimate.
3. Per Caltrans specification section 84-2.04, this estimate assumes contractor will be spraying thermoplastic traffic stripes, thus double stripes were counted as a single stripe
4. Yellow Traffic Stripe is assumed to be non-hazardous
5. For purposes of calculating Roadway Excavation from widening areas and bus shelter landscape areas, a structural depth of 18" of depth was assumed
6. Landscaping cost assumed to be \$5/sf, including landscape irrigation.
7. Utility Pole relocations are not included. It is assumed utility pole relocations are the responsibility of the utility owners.
8. A 2" HMA overlay thickness assumed based on the PCI provided
9. All existing Streetlights will be removed within the project limits, regardless of sidewalk improvements. New ornamental street lights will be installed within project limits.
10. No Drainage improvements required where curb & gutter will be replaced in place.
11. Interconnect does not account for any new equipment such as cabinets or mast arms that is already accounted for in the New Signal & Modify Signal Line Item costs

Opinion of Probable Cost

Client: Nelson\Nygaard
 Project Name: Stockton Boulevard Corridor Study (Central Segment)
 Project Location: Stockton Boulevard - Broadway to North of 21st Avenue
 WSP Project Number: 193206
 Date of Estimate: 11/24/2020

ITEM No.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
Roadway					
1	Minor CONCRETE (Curb Ramp)	EA	22	\$6,000	\$132,000
2	Minor CONCRETE (Curb)	LF	1372	\$30	\$41,157
3	Minor CONCRETE (Curb and Gutter)	LF	324	\$50	\$16,221
4	Minor CONCRETE (Sidewalk / Bus stop)	SF	6648	\$12	\$79,779
5	Minor Concrete (Median)	SF	69	\$10	\$693
6	Roadway Excavation	CY	380	\$130	\$49,339
7	HMA (Type A)	TON	4674	\$150	\$701,167
8	Class 2 Aggregate Base	CY	3685	\$200	\$737,010
9	HMA overlay & Cold Plane AC	SY	42983	\$35	\$1,504,419
10	Storm Drain Work	LS	1	\$85,000	\$85,000
11	6" Thermoplastic Stripe	LF	13909	\$1	\$13,909
12	8" Thermoplastic Stripe	LF	10282	\$1.25	\$12,853
13	Thermoplastic Pavement Marking	SF	8167	\$10	\$81,669
14	Green MMA (Methyl Methacrylate)	SF	295	\$10	\$2,950
15	Remove Existing Street Light	EA	40	\$1,500	\$60,000
16	Red Colored Paint	SF	94717	\$15	\$1,420,759
17	Channelizers (Surface mounted)	EA	604	\$50	\$30,200
18	Bus Shelter cost	EA	5	\$10,000	\$50,000
19	Clearing and Grubbing	LS	1	\$20,000	\$20,000
Electrical					
20	Signal Modification	EA	2	\$350,000	\$700,000
21	New Traffic Signal	EA	1	\$750,000	\$750,000
22	Pedestrian Half Signals	EA	6	\$125,000	\$750,000
23	Signal Modification - 14th St.	EA	2	\$50,000	\$100,000
24	Install Ornamental Street Light	EA	40	\$7,000	\$280,000
25	Interconnect labor & Material	LS	1	\$434,000	\$434,000
				SUB TOTAL	\$8,053,125
	Minor Items (5%)	LS			\$402,656
	Traffic Control Detour, Maintenance (10%)	LS			\$805,312
	Mobilization (10%)	LS			\$805,312.50
				SUB TOTAL	\$10,066,406
				CONTINGENCY (35%)	\$2,818,594
				CONSTRUCTION TOTAL	\$12,885,000

Total	\$12,890,000
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Project Delivery Costs	
Preliminary Engineering & Environmental (10%)	\$1,289,000
Right of Way/TCEs (3%)	\$386,700
Final Design (18%)	\$2,320,200
Construction Management (18%)	\$2,320,200

Total	\$6,316,100
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Percentage of Construction cost (without ROW)	46%
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List of Assumptions:

- The number of street lights to be removed and installed is approximate. No topo available this phase.
- Adjusting pull boxes, valve cover boxes, and manhole covers to grade not included in this estimate.
- Per Caltrans specification section 84-2.04, this estimate assumes contractor will be spraying thermoplastic traffic stripes, thus double stripes were counted as a single stripe
- Yellow Traffic Stripe is assumed to be non-hazardous
- For purposes of calculating Roadway Excavation from widening areas and bus shelter landscape areas, a structural depth of 18" of depth was assumed
- Landscaping cost assumed to be \$5/sf, including landscape irrigation.
- Utility Pole relocations are not included. It is assumed utility pole relocations are the responsibility of the utility owners.
- A 2" HMA overlay thickness assumed based on the PCI provided
- All existing Streetlights will be removed within the project limits, regardless of sidewalk improvements. New ornamental street lights will be installed within project limits.
- No Drainage improvements required where curb & gutter will be replaced in place.
- Interconnect does not account for any new equipment such as cabinets or mast arms that is already accounted for in the New Signal & Modify Signal Line Item costs

Opinion of Probable Cost

Client: Nelson\Nygaard					
Project Name: Stockton Boulevard Corridor Study (South Segment)					
Project Location: Stockton Boulevard - North of 21st Avenue to South of 47th Ave					
WSP Project Number: 193206					
Date of Estimate: 11/24/2020					
ITEM No.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
Roadway					
1	Minor CONCRETE (Curb Ramp)	EA	50	\$6,000	\$300,000
2	Minor CONCRETE (Curb)	LF	2292	\$30	\$68,761
3	Minor CONCRETE (Curb and Gutter)	LF	14773	\$50	\$738,650
4	Minor CONCRETE (Driveways)	EA	61	\$4,000	\$244,000
5	Minor CONCRETE (Sidewalk / Bus stop)	SF	189544	\$12	\$2,274,524
6	Minor Concrete (Median)	SF	1713	\$10	\$17,135
7	Roadway Excavation	CY	1910	\$130	\$248,345
8	HMA (Type A)	TON	7683	\$150	\$1,152,515
9	Class 2 Aggregate Base	CY	4429	\$200	\$885,831
10	HMA overlay & Cold Plane AC	SY	70665	\$35	\$2,473,288
11	Storm Drain Work	LS	1	\$305,000	\$305,000
12	6" Thermoplastic Stripe	LF	46687	\$1	\$46,687
13	8" Thermoplastic Stripe	LF	4074	\$1.25	\$5,093
14	Thermoplastic Pavement Marking	SF	6988	\$10	\$69,884
15	Green MMA (Methyl Methacrylate)	SF	5664	\$10	\$56,638
16	Remove Existing Street Light	EA	60	\$1,500	\$90,000
17	Bus Shelter cost	EA	11	\$10,000	\$110,000
18	Landscaping - planting and irrigation	LS	1	\$630,000	\$630,000
19	Clearing and Grubbing	LS	1	\$20,000	\$20,000
Electrical					
20	Signal Modification	EA	3	\$350,000	\$1,050,000
21	New Traffic Signal	EA	2	\$750,000	\$1,500,000
22	Pedestrian Half Signals	EA	7	\$125,000	\$875,000
23	Install Ornamental Street Light	EA	60	\$7,000	\$420,000
24	Interconnect labor & Material	LS	1	\$434,000	\$434,000
				SUB TOTAL	\$14,015,349
	Minor Items (5%)	LS			\$700,767
	Traffic Control Detour, Maintenance (10%)	LS			\$1,401,535
	Mobilization (10%)	LS			\$1,401,534.92
				SUB TOTAL	\$17,519,187
				CONTINGENCY (35%)	\$4,905,372
				CONSTRUCTION TOTAL	\$22,424,559

Total	\$22,430,000
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Project Delivery Costs	
Preliminary Engineering & Environmental (10%)	\$2,243,000
Right of Way/TCEs (3%)	\$672,900
Final Design (18%)	\$4,037,400
Construction Management (18%)	\$4,037,400

Total	\$10,990,700
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Percentage of Construction cost (without ROW)	46%
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List of Assumptions:

1. The number of street lights to be removed and installed is approximate. No topo available this phase.
2. Adjusting pull boxes, valve cover boxes, and manhole covers to grade not included in this estimate.
3. Per Caltrans specification section 84-2.04, this estimate assumes contractor will be spraying thermoplastic traffic stripes, thus double stripes were counted as a single stripe
4. Yellow Traffic Stripe is assumed to be non-hazardous
5. For purposes of calculating Roadway Excavation from widening areas and bus shelter landscape areas, a structural depth of 18" of depth was assumed
6. Landscaping cost assumed to be \$5/sf, including landscape irrigation.
7. Utility Pole relocations are not included. It is assumed utility pole relocations are the responsibility of the utility owners.
8. A 2" HMA overlay thickness assumed based on the PCI provided
9. All existing Streetlights will be removed within the project limits, regardless of sidewalk improvements. New ornamental street lights will be installed within project limits.
10. No Drainage improvements required where curb & gutter will be replaced in place.
11. Interconnect does not account for any new equipment such as cabinets or mast arms that is already accounted for in the New Signal & Modify Signal Line Item costs