## Roadway Construction Costs

### Quantity | Cost | Unit | Total
--- | --- | --- | ---
**Roadway Construction Costs**

### Commerce Street

**6' Benches**
- Quantity: 10
- Cost: $3,500 EA
- Unit: EA
- Total: $35,000

**Bike Racks**
- Quantity: 2
- Cost: $725 EA
- Unit: EA
- Total: $1,450

**Decorative Crosswalks (10' width)**
- Quantity: 92
- Cost: $200 SY
- Unit: SY
- Total: $18,400

**Flexible Barrier Posts at Bike Lane**
- Quantity: 3200
- Cost: $6 LF
- Unit: LF
- Total: $19,200

**Landscape Median**
- Quantity: 2400
- Cost: $10 SY
- Unit: SY
- Total: $24,000

**New Roadway**
- Quantity: 2893
- Cost: $190 SY
- Unit: SY
- Total: $549,670

**Painted (Green) Bike Lane**
- Quantity: 1300
- Cost: $15 SY
- Unit: SY
- Total: $19,500

**Pavement Stripping**
- Quantity: 6425
- Cost: $1 LF
- Unit: LF
- Total: $5,548

**Signage and Wayfinding**
- Quantity: 80
- Cost: $220 EA
- Unit: EA
- Total: $17,600

**Trash Receptacles**
- Quantity: 4
- Cost: $2,800 EA
- Unit: EA
- Total: $11,200

**Trees, Shrub, Perennials**
- Quantity: 740
- Cost: $40 SY
- Unit: SY
- Total: $29,600

**Total:**
- Total Cost: $730,760

### Federal Street

**6' Benches**
- Quantity: 8
- Cost: $3,500 EA
- Unit: EA
- Total: $28,000

**Bike Racks**
- Quantity: 2
- Cost: $725 EA
- Unit: EA
- Total: $1,450

**Flexible Barrier Posts at Bike Lane**
- Quantity: 1665
- Cost: $6 LF
- Unit: LF
- Total: $9,990

**Pavement Stripping**
- Quantity: 4435
- Cost: $1 LF
- Unit: LF
- Total: $4,435

**Signage and Wayfinding**
- Quantity: 80
- Cost: $220 EA
- Unit: EA
- Total: $17,600

**Trash Receptacles**
- Quantity: 4
- Cost: $2,800 EA
- Unit: EA
- Total: $11,200

**Total:**
- Total Cost: $90,988

### Fifth Avenue

**14' Decorative Concrete or Brick Pavers**
- Quantity: 4158
- Cost: $150 SY
- Unit: SY
- Total: $623,700

**6' Benches**
- Quantity: 28
- Cost: $3,500 EA
- Unit: EA
- Total: $98,000

**Bike Racks**
- Quantity: 8
- Cost: $725 EA
- Unit: EA
- Total: $5,800

**Bridge over 422**
- Quantity: 567
- Cost: $10 SY
- Unit: SY
- Total: $5,670

**Concrete curb at bio cell landscaping**
- Quantity: 8864
- Cost: $20 LF
- Unit: LF
- Total: $177,280

**Curb and gutter**
- Quantity: 19480
- Cost: $25 LF
- Unit: LF
- Total: $491,710

**Decorative Crosswalks (10' width)**
- Quantity: 3120
- Cost: $500 SY
- Unit: SY
- Total: $1,560,000

**Decorative Intersections (asphalt)**
- Quantity: 2780
- Cost: $150 EA
- Unit: EA
- Total: $417,000

**Decorative Lighting**
- Quantity: 32
- Cost: $15,000 EA
- Unit: EA
- Total: $480,000

**Demolish Signals**
- Quantity: 1
- Cost: $18,642 EA
- Unit: EA
- Total: $18,642

**Earthwork - Fill for shared use path on Fifth Ave**
- Quantity: 100
- Cost: $50 CY
- Unit: CY
- Total: $5,000

**Fifth Ave Demo (existing ROW limits)**
- Quantity: 35290
- Cost: $12 SY
- Unit: SY
- Total: $423,480

**Flexible Barrier Posts at Bike Lane**
- Quantity: 6090
- Cost: $6 LF
- Unit: LF
- Total: $36,540

**HAWK Ped crossing system at stadium**
- Quantity: 1
- Cost: $95,000 EA
- Unit: EA
- Total: $95,000

**Landscape Median**
- Quantity: 3393
- Cost: $10 SY
- Unit: SY
- Total: $33,930

**LED Street Lighting**
- Quantity: 58
- Cost: $120,000 EA
- Unit: EA
- Total: $696,000

**New Roadway**
- Quantity: 18684
- Cost: $190 SY
- Unit: SY
- Total: $3,549,960

**Painted (Green) Bike Lane**
- Quantity: 4684
- Cost: $15 SY
- Unit: SY
- Total: $70,260

**Pavement Stripping**
- Quantity: 28542
- Cost: $1 LF
- Unit: LF
- Total: $285,420

**Stormwater Improvements**
- Quantity: 1
- Cost: $1,300,000 EA
- Unit: EA
- Total: $1,300,000

**Trash Receptacles**
- Quantity: 14
- Cost: $2,800 EA
- Unit: EA
- Total: $39,200

**Trees, Shrub, Perennials**
- Quantity: 6750
- Cost: $40 SY
- Unit: SY
- Total: $270,000

**Total:**
- Total Cost: $10,539,565

### Front Street

**6' Benches**
- Quantity: 8
- Cost: $3,500 EA
- Unit: EA
- Total: $28,000

**Bike Racks**
- Quantity: 8
- Cost: $725 EA
- Unit: EA
- Total: $5,800

**Decorative Crosswalks (10' width)**
- Quantity: 600
- Cost: $200 SY
- Unit: SY
- Total: $120,000

**Flexible Barrier Posts at Bike Lane**
- Quantity: 4800
- Cost: $6 LF
- Unit: LF
- Total: $28,800

**Landscape Median**
- Quantity: 2180
- Cost: $10 SY
- Unit: SY
- Total: $21,800

**New Roadway**
- Quantity: 6769
- Cost: $190 SY
- Unit: SY
- Total: $1,286,110

**Pavement Stripping**
- Quantity: 14220
- Cost: $1 LF
- Unit: LF
- Total: $1,422,000

**Signage and Wayfinding**
- Quantity: 70
- Cost: $220 EA
- Unit: EA
- Total: $15,400

**Trash Receptacles**
- Quantity: 4
- Cost: $2,800 EA
- Unit: EA
- Total: $11,200

**Trees, Shrub, Perennials**
- Quantity: 882
- Cost: $40 SY
- Unit: SY
- Total: $35,280

**Total:**
- Total Cost: $4,828,166

### Rayen Avenue

**6' Benches**
- Quantity: 22
- Cost: $3,500 EA
- Unit: EA
- Total: $77,000

**Bike Racks**
- Quantity: 4
- Cost: $725 EA
- Unit: EA
- Total: $2,900

**Decorative Crosswalks (10' width)**
- Quantity: 432
- Cost: $200 SY
- Unit: SY
- Total: $86,400

**Decorative Lighting**
- Quantity: 4
- Cost: $15,000 EA
- Unit: EA
- Total: $60,000

**Flexible Barrier Posts at Bike Lane**
- Quantity: 7500
- Cost: $6 LF
- Unit: LF
- Total: $45,000

**Landscape Median**
- Quantity: 3672
- Cost: $10 SY
- Unit: SY
- Total: $36,720

**Total:**
- Total Cost: $1,638,366
SMART² Network - Estimate of Probable Costs

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<thead>
<tr>
<th>Quantity</th>
<th>Cost</th>
<th>Unit</th>
<th>Total</th>
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<td>SY</td>
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Phelps Street

| 6' Benches | 4 | $3,500 | EA | $14,000 |
| Bike Racks | 2 | $725 | EA | $1,450 |
| Pavement Striping | 842 | $1 | LF | $674 |
| Phelps Complete Streets | 1 | $250,000 | EA | $250,000 |
| Signage and Wayfinding | 46 | $220 | EA | $10,120 |
| Trash Receptacles | 4 | $2,800 | EA | $11,200 |
| Total: | | | $187,444 |

Park Avenue

| 6' Benches | 5 | $3,500 | EA | $17,500 |
| Bike Racks | 2 | $725 | EA | $1,450 |
| Flexible Barrier Posts at Bike Lane | 1200 | $6 | LF | $7,200 |
| Landscape Median | 1744 | $10 | SY | $17,440 |
| Painted (Green) Bike Lane | 1400 | $15 | SY | $21,000 |
| Pavement Striping | 3800 | $1 | LF | $3,040 |
| Signage and Wayfinding | 36 | $220 | EA | $7,920 |
| Trash Receptacles | 4 | $2,800 | EA | $11,200 |
| Total: | | | $86,750 |

Roadway Construction Costs Total: $17,823,873

Multimodal Infrastructure and Equipment Costs

Bel Park Transit Hub at Mercy Health

| 10'x20' Shelter with Canopy | 4 | $95,000 | EA | $380,000 |
| Decorative Benches | 8 | $3,500 | EA | $28,000 |
| Decorative Lighting | 12 | $15,000 | EA | $180,000 |
| Landscaping | 285 | $30 | SY | $8,550 |
| Concrete Curb | 424 | $30 | LF | $12,720 |
| Decorative Concrete/Pavers | 488 | $100 | SY | $48,750 |
| Decorative Paved Multimodal Roadway | 537 | $200 | SY | $107,444 |
| Concrete Bus Pad - 8' | 320 | $250 | SY | $80,000 |
| 6'x10' Shelter with Canopy | 22 | $35,000 | EA | $770,000 |
| Decorative Paving (10'x15') | 367 | $90 | SY | $33,000 |
| Bike Racks (1 per mini-hub) | 22 | $725 | EA | $15,950 |
| Decorative Benches (1 per mini-hub) | 22 | $3,500 | EA | $77,000 |
| Trash Receptacles | 22 | $2,850 | EA | $62,700 |
| Other Multimodal Infrastructure and Equipment | | | | |
| Autonomous Shuttle | 2 | $370,000 | EA | $740,000 |
| Bikeshare System | 6 | $50,000 | EA | $300,000 |
| Amphitheater Trail Extension | 1 | $850,000 | EA | $850,000 |
| Center City Bike Trail | 1 | $423,000 | EA | $423,000 |
| Multimodal Infrastructure and Equipment Costs Total: | | | $4,117,114 |

Project Subtotal: $21,940,988

Professional Services

| | | | |
| Preliminary Engineering | 3% | | $658,230 |
| Final Design | 5% | | $1,097,049 |
| Construction Administration & Management | 4% | | $877,640 |
| Professional Liability and other Non-Construction Insurance | 1% | | $219,410 |
| Legal, Permits, Review Fees by other agencies, cities, etc. | 1% | | $219,410 |
| Surveys, Testing, Investigation, Inspection | 1% | | $164,557 |
| Professional Services Total: | | | $3,236,296 |

Contingency

| | | |
| Contingency | 5% | | $1,097,049 |
| Contingency Total: | | | $1,097,049 |

Total Project Cost: $26,274,333