

Golden Mile Multimodal Access - Frederick, MD

30% Cost Estimate - May 30, 2017

Item No.	Work Item	Quantity	Unit	Unit Cost	Total Cost
130850	Mobilization	1	LS	\$ 100,000.00	\$ 100,000
201030	Class 1 Excavation	3,710	CY	\$ 35.00	\$ 129,850
210010	Remove Curb	5,400	LF	\$ 10.00	\$ 54,000
210081	Remove Inlet or Manhole	1	EA	\$ 1,000.00	\$ 1,000
210025	Remove Pavement	1,380	SY	\$ 16.00	\$ 22,080
210026	Remove Sidewalk	24,360	SF	\$ 2.00	\$ 48,720
801711	Remove Existing Sign and Pole	10	EA	\$ 50.00	\$ 500
813023	Relocate Existing Sign and Pole	15	EA	\$ 225.00	\$ 3,375
210019	Sawcut Existing Pavement	5,800	LF	\$ 2.00	\$ 11,600
Roadway and Roadside Work					
504500	2" HMA Surface Course	150	TON	\$ 70.00	\$ 10,500
-	4" HMA Surface Course	1,190	TON	\$ 70.00	\$ 83,300
504560	6" HMA Base Course	430	TON	\$ 80.00	\$ 34,400
520113	6" Graded Aggregate Base Course	7,520	SY	\$ 15.00	\$ 112,800
634101	Concrete Curb	5,920	LF	\$ 25.00	\$ 148,000
655105	5" Concrete Sidewalk	7,840	SF	\$ 8.00	\$ 62,720
655120	Detectable Warning Surfaces	980	SF	\$ 40.00	\$ 39,200
704300	Place Salvaged Topsoil 6" Depth	5,420	SY	\$ 6.00	\$ 32,520
202050	Select Borrow Fill	6,500	CY	\$ 50.00	\$ 325,000
-	Fence	2,600	LF	\$ 100.00	\$ 260,000
-	Retaining Wall	10,400	SF	\$ 100.00	\$ 1,040,000
Drainage					
374005	Stormwater Inlet	4	EA	\$ 4,000.00	\$ 16,000
-	Modify Existing Inlet	5	EA	\$ 2,500.00	\$ 12,500
-	Convert Existing Inlet to Manhole	2	EA	\$ 2,500.00	\$ 5,000
302418	18" RCP	65	LF	\$ 100.00	\$ 6,500
354418	Endwall	2	EA	\$ 2,000.00	\$ 4,000
Signals					
-	Controller and Cabinet	2	EA	\$ 20,000.00	\$ 40,000
-	Pedestrian Pedestal Relocation	11	EA	\$ 2,000.00	\$ 22,000
Signing and Marking					
585405	5" Solid White Thermoplastic Line	10,550	LF	\$ 1.00	\$ 10,550
585405	5" Solid Yellow Thermoplastic Line	4,500	LF	\$ 1.00	\$ 4,500
585412	12" Solid White Thermoplastic Line	6,300	LF	\$ 3.00	\$ 18,900
585424	24" Solid White Thermoplastic Line	520	LF	\$ 6.00	\$ 3,120
-	Red High Friction Colorized Overlay	3,730	SY	\$ 35.00	\$ 130,550
549719	Rem and Rep Recessed Pvmt Marker	220	EA	\$ 35.00	\$ 7,700
801605	Sign Panel	150	SF	\$ 30.00	\$ 4,500
801130	Sign Post (Tubular Steel)	18	EA	\$ 100.00	\$ 1,800
585631	Thermoplastic Bike Symbol	5	EA	\$ 250.00	\$ 1,250
585627	White Preformed Thermoplastic Pavement Markings (Arrows and Text)	1,850	SF	\$ 20.00	\$ 37,000
585700	Pavement Marking Eradication	21,870	LF	\$ 2.00	\$ 43,740
Hardscape					
-	Bus Shelter	4	EA	\$ 8,700.00	\$ 34,800
-	Trash Receptacle	4	EA	\$ 1,500.00	\$ 6,000
-	Bike Rack	4	EA	\$ 200.00	\$ 800
Landscaping					
710150	Tree, Shrub, and Perennial Installation and Establishment	1	LS	\$ 23,000.00	\$ 23,000
710170	Planting Beds	210	SY	\$ 10.00	\$ 2,100
708220	Turfgrass Seed Establishment	4870	SY	\$ 1.00	\$ 4,870
705565	Refertilizing	4870	SY	\$ 0.80	\$ 3,896
715015	Shredded Hardwood Mulching 3" Depth	560	SY	\$ 5.00	\$ 2,800
				Items Subtotal	\$2,967,441
Lump Sum Items					
a	E&S (5%)	1	LS	\$148,372	\$148,372
b	Utility relocation (10%)	1	LS	\$296,744	\$296,744
c	Maintenance of Highway Traffic (5%)	1	LS	\$148,372	\$148,372
d	Inspection (10%)	1	LS	\$296,744	\$296,744
				Lump Sum Subtotal	\$890,300
				Subtotal	\$3,857,741
				20% Contingency	\$771,548
				Total Estimated Cost	\$4,629,300

Unit prices are based on line item costs, historical bid pricing and estimator's Judgment. Temporary Construction Easements & Right-of-Way acquisition are not included in this cost estimate. Construction cost estimates were developed for the recommendations by identifying pay items and establishing quantities. Unit costs are based on 2017 dollars and were assigned based on historical cost data from MDSHA, other Departments of Transportation, and the estimators past experiences. Please note that costs have been assigned for utility relocation based on a percent of the overall project; however, these costs can vary widely depending on the exact details and nature of the relocations. Utility survey data is incomplete, so a more accurate tabulation of utility costs is not possible. The overall estimate is intended to be general and used for planning purposes. Construction costs will vary based on the ultimate project scope (i.e. potential combination with other project(s) or use of City forces) and economic conditions at the time of construction.