

CONCEPTUAL OPINION OF PROBABLE COSTS  
RED LINE TRAIL



APRIL 19, 2013

PHASE I		Aggregate Trail	Asphalt Trail
SECTION	DESCRIPTION	TOTAL COST	TOTAL COST
1	Franklin Avenue to Abby Avenue	\$1,201,176.68	\$1,237,935.43
2	Abby Avenue to W. 25th Street	\$398,788.19	\$441,374.16
3	W. 25th Street to Fulton Road	\$970,269.77	\$1,072,828.89
4	Fulton Road to W. 41st Street	\$606,259.50	\$658,074.54
<b>PHASE I TOTAL</b>		<b>\$3,176,494.15</b>	<b>\$3,410,213.02</b>
<b>PHASE II</b>			
5	W. 41st Street to W. 44th Street	\$730,701.49	\$742,954.40
6	W. 44th Street to Michael Zone Recreation Center	\$893,986.85	\$938,809.21
<b>PHASE II TOTAL</b>		<b>\$1,624,688.33</b>	<b>\$1,681,763.62</b>
<b>ALTERNATE ALIGNMENT</b>			
7	Lorain Carnegie Hope Memorial Bridge to GCRTA Viaduct stopping above Merwin Avenue	\$377,309.79	\$422,919.62
<b>ALTERNATE ALIGNMENT TOTAL</b>		<b>\$377,309.79</b>	<b>\$422,919.62</b>
<b>GRAND TOTAL</b>		<b>\$5,178,492.28</b>	<b>\$5,514,896.26</b>

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 APRIL 19, 2013



1 - Franklin Avenue to Abbey Avenue

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
<b>1</b>	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	2.3	AC	\$4,000.00	\$9,200.00
	B. Construction Fencing	300	LF	\$3.50	\$1,050.00
	C. Asphalt & Concrete Pavement Removal	430	SY	\$9.00	\$3,870.00
	D. Concrete Crosswalk Pavement Removal		SY	\$50.00	\$0.00
	E. Concrete Curb Removal	325	LF	\$10.00	\$3,250.00
	F. Saw Cut Pavement	325	LF	\$8.00	\$2,600.00
	Subtotal				\$19,970.00
<b>2</b>	<b>Earthwork</b>				
	A. Excavation/Embankment	26500	CY	\$15.00	\$397,500.00
	Subtotal				\$397,500.00
<b>3</b>	<b>Erosion Control</b>				
	A. Silt Fence	1180	LF	\$3.50	\$4,130.00
	B. Erosion Control Measures	1	LS	\$10,000.00	\$10,000.00
	C. Slope Matting	5200	SY	\$3.50	\$18,200.00
	Subtotal				\$32,330.00
<b>4</b>	<b>Pavement</b>				
	A. Subgrade Preparation	1556	SY	\$1.50	\$2,334.00
	B. 10' Asphalt Pavement	1167	SY	\$38.00	\$44,346.00
	C. Concrete Pavement	3700	SF	\$8.00	\$29,600.00
	D. Decorative Concrete Node Pavement	1740	SF	\$12.00	\$20,880.00
	E. Geogrid	1556	SY	\$6.00	\$9,336.00
	Subtotal				\$106,496.00
<b>5</b>	<b>At Grade Crossings &amp; Road Markings</b>				
	A. Crosswalk Striping Only	60	LF	\$12.50	\$750.00
	B. Restripe Road	360	LF	\$5.00	\$1,800.00
	C. 10' Curb Ramps w/ Trunc. Domes	1	EA	\$2,200.00	\$2,200.00
	Subtotal				\$4,750.00
<b>6</b>	<b>Utilities</b>				
	A. Light Pole Relocation	1	EA	\$2,500.00	\$2,500.00
	B. Adjust Utilities to Grade	1	LS	\$5,000.00	\$5,000.00
	C. Relocate Sign		EA	\$500.00	\$0.00
	D. Electric Distribution & Connections	1	LS	\$20,000.00	\$20,000.00
	E. 25' Light Pole with LED Fixture & Base (100' O.C.)	10	EA	\$4,200.00	\$42,000.00
	F. Sconce LED Fixtures for Under Bridge (4 per bridge)	12	EA	\$850.00	\$10,200.00
	G. Underground Electric Conduit & Wire	1000	LF	\$35.00	\$35,000.00
	Subtotal				\$114,700.00
<b>7</b>	<b>Site Amenities</b>				
	A. Bollards	2	EA	\$800.00	\$1,600.00
	B. Removable Bollards	1	EA	\$1,200.00	\$1,200.00
	C. Cellular Retaining Wall (Green Wall)	850	FF	\$42.50	\$36,125.00
	D. Trail Signage	1180	LF	\$1.50	\$1,770.00
	E. 6' Black Vinyl Chain Link Security Fence w/ Barbed Wire	900	LF	\$60.00	\$54,000.00
	F. 6' Black Vinyl Chain Link Security Gates (Double Swing)	1	EA	\$5,000.00	\$5,000.00
	G. Bench (500' O.C.)	3	EA	\$2,500.00	\$7,500.00
	H. Trash Receptacle (500' O.C.)	3	EA	\$1,500.00	\$4,500.00
	Subtotal				\$111,695.00
<b>8</b>	<b>Landscape</b>				
	A. Trailside Seeding and Fine Grading	700	SY	\$1.20	\$840.00
	B. Seeding and Fine Grading	4000	SY	\$1.20	\$4,800.00
	C. Slope Stabilization #2 Cont. Shrubs (5' O.C.)	1520	EA	\$25.00	\$38,000.00
	D. Slope Stabilization Trees (1' Cal., 30' O.C.)	42	EA	\$275.00	\$11,550.00
	E. Trees (3' Cal., 1 per 50LF)	20	EA	\$450.00	\$9,000.00
	Subtotal				\$64,190.00
<b>9</b>	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	1	LS	\$10,000.00	\$10,000.00
	B. Traffic Control & Maintenance	1	LS	\$3,000.00	\$3,000.00
	Subtotal				\$13,000.00
	<b>TOTAL</b>				<b>\$864,631.00</b>
	A. Contingency (15%)				\$129,694.65
	B. General Conditions (5%)				\$49,716.28
	C. Bonds & Insurances (3%)				\$29,829.77
	D. Mobilization/Demobilization (1.5%)				\$14,914.88
	E. Design & Documents (15%)				\$149,148.85
	<b>GRAND TOTAL with Asphalt Trail</b>				<b>\$1,237,935.43</b>
<b>~</b>	<b>Replace Asphalt Trail Pavement with Aggregate</b>				
	B. 10' Asphalt Pavement	1167	SY	-\$38.00	-\$44,346.00
	C. 10' Aggregate Pavement	1167	SY	\$16.00	\$18,672.00
	Subtotal				-\$25,674.00
	<b>TOTAL</b>				<b>\$838,957.00</b>
	A. Contingency (15%)				\$125,843.55
	B. General Conditions (5%)				\$48,240.03
	C. Bonds & Insurances (3%)				\$28,944.02
	D. Mobilization/Demobilization (1.5%)				\$14,472.01
	E. Design & Documents (15%)				\$144,720.08
	<b>GRAND TOTAL with Aggregate Trail</b>				<b>\$1,201,176.68</b>

assumptions

earthwork contains no hazards

RED LINE TRAIL CONCEPTUAL OPINION OF PROBABLE COSTS APRIL 19, 2013					
Environmental DesignGroup					
2 - Abbey Avenue to W. 25th Street					
ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
<b>1</b>	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	1.0	AC	\$4,000.00	\$4,000.00
	B. Construction Fencing		LF	\$3.50	\$0.00
	C. Asphalt & Concrete Pavement Removal		SY	\$9.00	\$0.00
	D. Concrete Crosswalk Pavement Removal		SY	\$50.00	\$0.00
	E. Concrete Curb Removal		LF	\$10.00	\$0.00
	F. Saw Cut Pavement		LF	\$8.00	\$0.00
	<b>Subtotal</b>				<b>\$4,000.00</b>
<b>2</b>	<b>Earthwork</b>				
	A. Excavation/Embankment	1500	CY	\$10.00	\$15,000.00
	<b>Subtotal</b>				<b>\$15,000.00</b>
<b>3</b>	<b>Erosion Control</b>				
	A. Silt Fence	1216	LF	\$3.50	\$4,256.00
	B. Erosion Control Measures	1	LS	\$5,000.00	\$5,000.00
	<b>Subtotal</b>				<b>\$9,256.00</b>
<b>4</b>	<b>Pavement</b>				
	A. Subgrade Preparation	1892	SY	\$1.50	\$2,838.00
	B. 10' Asphalt Pavement	1352	SY	\$38.00	\$51,376.00
	C. Concrete Pavement		SF	\$8.00	\$0.00
	D. Decorative Concrete Node Pavement		SF	\$12.00	\$0.00
	E. Geogrid	1892	SY	\$6.00	\$11,352.00
	<b>Subtotal</b>				<b>\$65,566.00</b>
<b>5</b>	<b>At Grade Crossings &amp; Road Markings</b>				
	A. Crosswalk Striping Only		LF	\$12.50	\$0.00
	B. Restripe Road		LF	\$5.00	\$0.00
	C. 10' Curb Ramps w/ Trunc. Domes		EA	\$2,200.00	\$0.00
	<b>Subtotal</b>				<b>\$0.00</b>
<b>6</b>	<b>Utilities</b>				
	A. Light Pole Relocation		EA	\$2,500.00	\$0.00
	B. Adjust Utilities to Grade		LS	\$2,500.00	\$0.00
	C. Relocate Sign		EA	\$500.00	\$0.00
	D. Electric Distribution & Connections	1	LS	\$10,000.00	\$10,000.00
	E. 25' Light Pole with LED Fixture & Base (100' O.C.)	12	EA	\$4,200.00	\$50,400.00
	F. Sconce LED Fixtures for Under Bridge (4 per bridge)	4	EA	\$850.00	\$3,400.00
	G. Underground Electric Conduit & Wire	1216	LF	\$35.00	\$42,560.00
	<b>Subtotal</b>				<b>\$106,360.00</b>
<b>7</b>	<b>Site Amenities</b>				
	A. Bollards		EA	\$800.00	\$0.00
	B. Removable Bollards		EA	\$1,200.00	\$0.00
	C. Cellular Retaining Wall (Green Wall)		FF	\$42.50	\$0.00
	D. Trail Signage	1216	LF	\$1.50	\$1,824.00
	E. 6' Black Vinyl Chain Link Security Fence w/ Barbed Wire	1200	LF	\$60.00	\$72,000.00
	F. 6' Black Vinyl Chain Link Security Gates (Double Swing)	1	EA	\$5,000.00	\$5,000.00
	G. Bench (500' O.C.)	3	EA	\$2,500.00	\$7,500.00
	H. Trash Receptacle (500' O.C.)	3	EA	\$1,500.00	\$4,500.00
	<b>Subtotal</b>				<b>\$90,824.00</b>
<b>8</b>	<b>Landscape</b>				
	A. Trailside Seeding and Fine Grading	850	SY	\$1.20	\$1,020.00
	B. Seeding and Fine Grading		SY	\$1.20	\$0.00
	C. Trees (3' Cal., 1 per 50LF)	25	EA	\$450.00	\$11,250.00
	<b>Subtotal</b>				<b>\$12,270.00</b>
<b>9</b>	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	1	LS	\$5,000.00	\$5,000.00
	B. Traffic Control & Maintenance		LS	\$3,000.00	\$0.00
	<b>Subtotal</b>				<b>\$5,000.00</b>
	<b>TOTAL</b>				<b>\$308,276.00</b>
	A. Contingency (15%)				\$46,241.40
	B. General Conditions (5%)				\$17,725.87
	C. Bonds & Insurances (3%)				\$10,635.52
	D. Mobilization/Demobilization (1.5%)				\$5,317.76
	E. Design & Documents (15%)				\$53,177.61
	<b>GRAND TOTAL with Asphalt Trail</b>				<b>\$441,374.16</b>
<b>~</b>	<b>Replace Asphalt Trail Pavement with Aggregate</b>				
	B. 10' Asphalt Pavement	1352	SY	-\$38.00	-\$51,376.00
	C. 10' Aggregate Pavement	1352	SY	\$16.00	\$21,632.00
	<b>Subtotal</b>				<b>-\$29,744.00</b>
	<b>TOTAL</b>				<b>\$278,532.00</b>
	A. Contingency (15%)				\$41,779.80
	B. General Conditions (5%)				\$16,015.59
	C. Bonds & Insurances (3%)				\$9,609.35
	D. Mobilization/Demobilization (1.5%)				\$4,804.68
	E. Design & Documents (15%)				\$48,046.77
	<b>GRAND TOTAL with Aggregate Trail</b>				<b>\$398,788.19</b>

assumptions

RED LINE TRAIL  
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 APRIL 19, 2013



3 - W. 25th Street to Fulton Road

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
<b>1</b>	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	4.1	AC	\$4,000.00	\$16,400.00
	B. Construction Fencing		LF	\$3.50	\$0.00
	C. Asphalt & Concrete Pavement Removal		SY	\$9.00	\$0.00
	D. Fence Removal		LF	\$5.00	\$0.00
	E. Saw Cut Pavement		LF	\$5.00	\$0.00
	Subtotal				\$16,400.00
<b>2</b>	<b>Earthwork</b>				
	A. Excavation/Embankment	3800	CY	\$10.00	\$38,000.00
	Subtotal				\$38,000.00
<b>3</b>	<b>Erosion Control</b>				
	A. Silt Fence	2930	LF	\$3.50	\$10,255.00
	B. Erosion Control Measures	1	LS	\$10,000.00	\$10,000.00
	Subtotal				\$20,255.00
<b>4</b>	<b>Pavement</b>				
	A. Subgrade Preparation	4558	SY	\$1.50	\$6,837.00
	B. 10' Asphalt Pavement	3256	SY	\$38.00	\$123,728.00
	C. Geogrid	4558	SY	\$6.00	\$27,348.00
	D. Concrete Sidewalk Replacement		SF	\$8.00	\$0.00
	E. Concrete Curb		LF	\$20.00	\$0.00
	Subtotal				\$157,913.00
<b>5</b>	<b>At Grade Crossings &amp; Road Markings</b>				
	A. 10' Curb Ramps w/ Trunc. Domes		EA	\$2,200.00	\$0.00
	Subtotal				\$0.00
<b>6</b>	<b>Utilities</b>				
	A. Power Pole Relocation		EA	\$5,000.00	\$0.00
	B. BioSwale Precast Concrete Weir (25' O.C.)		EA	\$2,000.00	\$0.00
	C. BioSwale 4" HDPE Underdrain		LF	\$5.00	\$0.00
	D. Electric Distribution & Connections	1	LS	\$20,000.00	\$20,000.00
	E. 25' Light Pole with LED Fixture & Base (100' O.C.)	29	EA	\$4,200.00	\$121,800.00
	F. Sconce LED Fixtures for Under Bridge (4 per bridge)	4	EA	\$850.00	\$3,400.00
	G. Underground Electric Conduit & Wire	2930	LF	\$35.00	\$102,550.00
	Subtotal				\$247,750.00
<b>7</b>	<b>Site Amenities</b>				
	A. Bollards		EA	\$800.00	\$0.00
	B. Removable Bollards		EA	\$1,200.00	\$0.00
	C. Trail Signage	2930	LF	\$1.50	\$4,395.00
	D. 6' Black Vinyl Chain Link Security Fence w/ Barbed Wire	2945	LF	\$60.00	\$176,700.00
	E. 6' Black Vinyl Chain Link Security Gates (Double Swing)	2	EA	\$5,000.00	\$10,000.00
	F. Bench (500' O.C.)	6	EA	\$2,500.00	\$15,000.00
	G. Trash Receptacle (500' O.C.)	6	EA	\$1,500.00	\$9,000.00
	Subtotal				\$215,095.00
<b>8</b>	<b>Landscape</b>				
	A. Trailside Seeding and Fine Grading	2000	SY	\$1.20	\$2,400.00
	B. Lawn Seeding and Fine Grading	20000	SY	\$1.20	\$24,000.00
	C. Trees (3" Cal., 1 per 50LF)	50	EA	\$450.00	\$22,500.00
	Subtotal				\$48,900.00
<b>9</b>	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	1	LS	\$5,000.00	\$5,000.00
	B. Traffic Control & Maintenance		LS	\$3,000.00	\$0.00
	Subtotal				\$5,000.00
	<b>TOTAL</b>				\$749,313.00
	A. Contingency (15%)				\$112,396.95
	B. General Conditions (5%)				\$43,085.50
	C. Bonds & Insurances (3%)				\$25,851.30
	D. Mobilization/Demobilization (1.5%)				\$12,925.65
	E. Design & Documents (15%)				\$129,256.49
	<b>GRAND TOTAL with Asphalt Trail</b>				\$1,072,828.89
<b>~</b>	<b>Replace Asphalt Trail Pavement with Aggregate</b>				
	B. 10' Asphalt Pavement	3256	SY	-\$38.00	-\$123,728.00
	C. 10' Aggregate Pavement	3256	SY	\$16.00	\$52,096.00
	Subtotal				-\$71,632.00
	<b>TOTAL</b>				\$677,681.00
	A. Contingency (15%)				\$101,652.15
	B. General Conditions (5%)				\$38,966.66
	C. Bonds & Insurances (3%)				\$23,379.99
	D. Mobilization/Demobilization (1.5%)				\$11,690.00
	E. Design & Documents (15%)				\$116,899.97
	<b>GRAND TOTAL with Aggregate Trail</b>				\$970,269.77

assumptions

trail can be placed to avoid power poles

RED LINE TRAIL  
 CONCEPTUAL OPINION OF PROBABLE COSTS  
 APRIL 19, 2013



4 - Fulton Road to W. 41st Street

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
<b>1</b>	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	1.20	AC	\$4,000.00	\$4,800.00
	B. Construction Fencing	600	LF	\$3.50	\$2,100.00
	C. Asphalt & Concrete Pavement Removal	503	SY	\$9.00	\$4,527.00
	D. Concrete Stair Removal	1	LS	\$5,000.00	\$5,000.00
	E. Concrete Curb Removal	287	LF	\$10.00	\$2,870.00
	F. Saw Cut Pavement	290	LF	\$5.00	\$1,450.00
	Subtotal				\$20,747.00
<b>2</b>	<b>Earthwork</b>				
	A. Excavation/Embankment	2100	CY	\$10.00	\$21,000.00
	Subtotal				\$21,000.00
<b>3</b>	<b>Erosion Control</b>				
	A. Silt Fence	1505	LF	\$3.50	\$5,267.50
	B. Erosion Control Measures	1	LS	\$10,000.00	\$10,000.00
	Subtotal				\$15,267.50
<b>4</b>	<b>Pavement</b>				
	A. Subgrade Preparation	2303	SY	\$1.50	\$3,454.50
	B. 10' Asphalt Pavement	1645	SY	\$38.00	\$62,510.00
	C. Geogrid	2303	SY	\$6.00	\$13,818.00
	D. Road Asphalt Pavement	350	SY	\$65.00	\$22,750.00
	E. Pedestrian Bridge Stair Replacement	1	LS	\$20,000.00	\$20,000.00
	F. 5' Concrete Sidewalk Replacement	560	SF	\$8.00	\$4,480.00
	G. Concrete Apron Replacement	300	SF	\$10.00	\$3,000.00
	Subtotal				\$130,012.50
<b>5</b>	<b>At Grade Crossings &amp; Road Markings</b>				
	A. Crosswalk Striping Only	50	LF	\$12.50	\$625.00
	B. Restripe Road		LF	\$5.00	\$0.00
	C. 10' Curb Ramps w/ Trunc. Domes	2	EA	\$2,200.00	\$4,400.00
	Subtotal				\$5,025.00
<b>6</b>	<b>Utilities</b>				
	A. Power Pole Relocation	5	EA	\$5,000.00	\$25,000.00
	B. Adjust Utilities to Grade	1	LS	\$5,000.00	\$5,000.00
	C. Electric Distribution & Connections	1	LS	\$10,000.00	\$10,000.00
	D. 25' Light Pole with LED Fixture & Base (100' O.C.)	15	EA	\$4,200.00	\$63,000.00
	E. Sconce LED Fixtures for Under Bridge (4 per bridge)		EA	\$850.00	\$0.00
	F. Underground Electric Conduit & Wire	1480	LF	\$35.00	\$51,800.00
	Subtotal				\$154,800.00
<b>7</b>	<b>Site Amenities</b>				
	A. Bollards	6	EA	\$800.00	\$4,800.00
	B. Removable Bollards	4	EA	\$1,200.00	\$4,800.00
	C. Trail Signage	1505	LF	\$1.50	\$2,257.50
	D. 6' Black Vinyl Chain Link Security Fence w/ Barbed Wire	871	LF	\$60.00	\$52,260.00
	E. Bench (500' O.C.)	3	EA	\$2,500.00	\$7,500.00
	F. Trash Receptacle (500' O.C.)	3	EA	\$1,500.00	\$4,500.00
	Subtotal				\$76,117.50
<b>8</b>	<b>Landscape</b>				
	A. Trailside Seeding and Fine Grading	1200	SY	\$1.20	\$1,440.00
	B. Lawn Seeding and Fine Grading	5600	SY	\$1.20	\$6,720.00
	C. Trees (3" Cal., 1 per 50LF)	30	EA	\$450.00	\$13,500.00
	Subtotal				\$21,660.00
<b>9</b>	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	1	LS	\$10,000.00	\$10,000.00
	B. Traffic Control & Maintenance	1	LS	\$5,000.00	\$5,000.00
	Subtotal				\$15,000.00
	<b>TOTAL</b>				\$459,629.50
	A. Contingency (15%)				\$68,944.43
	B. General Conditions (5%)				\$26,428.70
	C. Bonds & Insurances (3%)				\$15,857.22
	D. Mobilization/Demobilization (1.5%)				\$7,928.61
	E. Design & Documents (15%)				\$79,286.09
	<b>GRAND TOTAL with Asphalt Trail</b>				\$658,074.54
<b>-</b>	<b>Replace Asphalt Trail Pavement with Aggregate</b>				
	B. 10' Asphalt Pavement	1645	SY	-\$38.00	-\$62,510.00
	C. 10' Aggregate Pavement	1645	SY	\$16.00	\$26,320.00
	Subtotal				-\$36,190.00
	<b>TOTAL</b>				\$423,439.50
	A. Contingency (15%)				\$63,515.93
	B. General Conditions (5%)				\$24,347.77
	C. Bonds & Insurances (3%)				\$14,608.66
	D. Mobilization/Demobilization (1.5%)				\$7,304.33
	E. Design & Documents (15%)				\$73,043.31
	<b>GRAND TOTAL with Aggregate Trail</b>				\$606,259.50

assumptions

Metal-Mation Inc. will provide their own separate access drive

RED LINE TRAIL  
 CONCEPTUAL OPINION OF PROBABLE COSTS  
 APRIL 19, 2013



5 - W. 41st Street to W. 44th Street

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
<b>1</b>	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	1.0	AC	\$4,000.00	\$4,000.00
	B. Construction Fencing	804	LF	\$3.50	\$2,814.00
	C. Asphalt & Concrete Pavement Removal	60	SY	\$9.00	\$540.00
	Subtotal				\$7,354.00
<b>2</b>	<b>Earthwork</b>				
	A. Excavation/Embankment	525	CY	\$10.00	\$5,250.00
	Subtotal				\$5,250.00
<b>3</b>	<b>Erosion Control</b>				
	A. Silt Fence	804	LF	\$3.50	\$2,814.00
	B. Erosion Control Measures	1	LS	\$5,000.00	\$5,000.00
	Subtotal				\$7,814.00
<b>4</b>	<b>Pavement</b>				
	A. Subgrade Preparation	545	SY	\$1.50	\$817.50
	B. 10' Asphalt Pavement	389	SY	\$38.00	\$14,782.00
	C. Geogrid	545	SY	\$6.00	\$3,270.00
	D. Widened Concrete Sidewalk	560	SF	\$8.00	\$4,480.00
	E. Concrete Apron Replacement	300	SF	\$10.00	\$3,000.00
	Subtotal				\$26,349.50
<b>5</b>	<b>At Grade Crossings &amp; Road Markings</b>				
	A. Crosswalk Striping Only	84	LF	\$12.50	\$1,050.00
	B. 10' Curb Ramps w/ Trunc. Domes	3	EA	\$2,200.00	\$6,600.00
	Subtotal				\$7,650.00
<b>6</b>	<b>Utilities</b>				
	A. Adjust Utilities to Grade	1	LS	\$5,000.00	\$5,000.00
	B. Electric Distribution & Connections	1	LS	\$10,000.00	\$10,000.00
	C. 25' Light Pole with LED Fixture & Base (100' O.C.)	8	EA	\$4,200.00	\$33,600.00
	D. Sconce LED Fixtures for Under Bridge (4 per bridge)		EA	\$850.00	\$0.00
	E. Underground Electric Conduit & Wire	804	LF	\$35.00	\$28,140.00
	Subtotal				\$76,740.00
<b>7</b>	<b>Site Amenities</b>				
	A. Bollards	6	EA	\$800.00	\$4,800.00
	B. Removable Bollards	3	EA	\$1,200.00	\$3,600.00
	C. Trail Signage	804	LF	\$1.50	\$1,206.00
	D. Wooden Boardwalk w/ Railing	444	LF	\$800.00	\$355,200.00
	E. Bench (500' O.C.)	2	EA	\$2,500.00	\$5,000.00
	F. Trash Receptacle (500' O.C.)	2	EA	\$1,500.00	\$3,000.00
	Subtotal				\$372,806.00
<b>8</b>	<b>Landscape</b>				
	A. Trailside Seeding and Fine Grading	1500	SY	\$1.20	\$1,800.00
	B. Trees (3" Cal., 1 per 50LF)	7	EA	\$450.00	\$3,150.00
	Subtotal				\$4,950.00
<b>9</b>	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	1	LS	\$5,000.00	\$5,000.00
	B. Traffic Control & Maintenance	1	LS	\$5,000.00	\$5,000.00
	Subtotal				\$10,000.00
	<b>TOTAL</b>				<b>\$518,913.50</b>
	A. Contingency (15%)				\$77,837.03
	B. General Conditions (5%)				\$29,837.53
	C. Bonds & Insurances (3%)				\$17,902.52
	D. Mobilization/Demobilization (1.5%)				\$8,951.26
	E. Design & Documents (15%)				\$89,512.58
	<b>GRAND TOTAL with Asphalt Trail</b>				<b>\$742,954.40</b>

~	<b>Replace Asphalt Trail Pavement with Aggregate</b>				
	B. 10' Asphalt Pavement	389	SY	-\$38.00	-\$14,782.00
	C. 10' Aggregate Pavement	389	SY	\$16.00	\$6,224.00
	Subtotal				-\$8,558.00
	<b>TOTAL</b>				<b>\$510,355.50</b>
	A. Contingency (15%)				\$76,553.33
	B. General Conditions (5%)				\$29,345.44
	C. Bonds & Insurances (3%)				\$17,607.26
	D. Mobilization/Demobilization (1.5%)				\$8,803.63
	E. Design & Documents (15%)				\$88,036.32
	<b>GRAND TOTAL with Aggregate Trail</b>				<b>\$730,701.49</b>

assumptions

RED LINE TRAIL  
 CONCEPTUAL OPINION OF PROBABLE COSTS  
 APRIL 19, 2013



6 - W. 44th Street to Michael Zone Recreation Center

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
<b>1</b>	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	1.50	AC	\$4,000.00	\$6,000.00
	B. Construction Fencing	1711	LF	\$3.50	\$5,988.50
	<b>Subtotal</b>				\$11,988.50
<b>2</b>	<b>Earthwork</b>				
	A. Excavation/Embankment	1800	CY	\$10.00	\$18,000.00
	<b>Subtotal</b>				\$18,000.00
<b>3</b>	<b>Erosion Control</b>				
	A. Silt Fence	1711	LF	\$3.50	\$5,988.50
	B. Erosion Control Measures		LS	\$5,000.00	\$0.00
	<b>Subtotal</b>				\$5,988.50
<b>4</b>	<b>Pavement</b>				
	A. Subgrade Preparation	1992	SY	\$1.50	\$2,988.00
	B. 10' Asphalt Pavement	1423	SY	\$38.00	\$54,074.00
	C. Geogrid	1992	SY	\$6.00	\$11,952.00
	D. Widened Concrete Sidewalk	1100	SF	\$8.00	\$8,800.00
	E. Concrete Apron Replacement		SF	\$10.00	\$0.00
	<b>Subtotal</b>				\$77,814.00
<b>5</b>	<b>At Grade Crossings &amp; Road Markings</b>				
	A. Crosswalk Striping Only	170	LF	\$12.50	\$2,125.00
	B. 10' Curb Ramps w/ Trunc. Domes	3	EA	\$2,200.00	\$6,600.00
	<b>Subtotal</b>				\$8,725.00
<b>6</b>	<b>Utilities</b>				
	A. Adjust Utilities to Grade	1	LS	\$5,000.00	\$5,000.00
	B. Electric Distribution & Connections	1	LS	\$20,000.00	\$20,000.00
	C. 25' Light Pole with LED Fixture & Base (100' O.C.)	17	EA	\$4,200.00	\$71,400.00
	D. Underground Electric Conduit & Wire	1711	LF	\$35.00	\$59,885.00
	<b>Subtotal</b>				\$156,285.00
<b>7</b>	<b>Site Amenities</b>				
	A. Bollards	6	EA	\$800.00	\$4,800.00
	B. Removable Bollards	3	EA	\$1,200.00	\$3,600.00
	C. Trail Signage	1711	LF	\$1.50	\$2,566.50
	D. Wooden Boardwalk w/ Railing	416	LF	\$800.00	\$332,800.00
	E. Bench (500' O.C.)	3	EA	\$2,500.00	\$7,500.00
	F. Trash Receptacle (500' O.C.)	3	EA	\$1,500.00	\$4,500.00
	<b>Subtotal</b>				\$355,766.50
<b>8</b>	<b>Landscape</b>				
	A. Trailside Seeding and Fine Grading	1200	SY	\$1.20	\$1,440.00
	B. Trees (3" Cal., 1 per 50LF)	26	EA	\$450.00	\$11,700.00
	<b>Subtotal</b>				\$13,140.00
<b>9</b>	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	1	LS	\$5,000.00	\$5,000.00
	B. Traffic Control & Maintenance	1	LS	\$3,000.00	\$3,000.00
	<b>Subtotal</b>				\$8,000.00
	<b>TOTAL</b>				\$655,707.50
	A. Contingency (15%)				\$98,356.13
	B. General Conditions (5%)				\$37,703.18
	C. Bonds & Insurances (3%)				\$22,621.91
	D. Mobilization/Demobilization (1.5%)				\$11,310.95
	E. Design & Documents (15%)				\$113,109.54
	<b>GRAND TOTAL with Asphalt Trail</b>				\$938,809.21
-	<b>Replace Asphalt Trail Pavement with Aggregate</b>				
	B. 10' Asphalt Pavement	1423	SY	-\$38.00	-\$54,074.00
	C. 10' Aggregate Pavement	1423	SY	\$16.00	\$22,768.00
	<b>Subtotal</b>				-\$31,306.00
	<b>TOTAL</b>				\$624,401.50
	A. Contingency (15%)				\$93,660.23
	B. General Conditions (5%)				\$35,903.09
	C. Bonds & Insurances (3%)				\$21,541.85
	D. Mobilization/Demobilization (1.5%)				\$10,770.93
	E. Design & Documents (15%)				\$107,709.26
	<b>GRAND TOTAL with Aggregate Trail</b>				\$893,986.85

assumptions

RED LINE TRAIL  
 CONCEPTUAL OPINION OF PROBABLE COSTS  
 APRIL 19, 2013



7 - Lorain Carnegie Hope Memorial Bridge Stopping above Merwin Avenue

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
<b>1</b>	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	1.0	AC	\$4,000.00	\$4,000.00
	B. Construction Fencing	1300	LF	\$3.50	\$4,550.00
	Subtotal				\$8,550.00
<b>2</b>	<b>Earthwork</b>				
	A. Excavation/Embankment		CY	\$10.00	\$0.00
	Subtotal				\$0.00
<b>3</b>	<b>Erosion Control</b>				
	A. Silt Fence	1300	LF	\$3.50	\$4,550.00
	B. Erosion Control Measures		LS	\$5,000.00	\$0.00
	Subtotal				\$4,550.00
<b>4</b>	<b>Pavement</b>				
	A. Subgrade Preparation	2023	SY	\$1.50	\$3,034.50
	B. 10' Asphalt Pavement	1448	SY	\$38.00	\$55,024.00
	C. Geogrid	2023	SY	\$6.00	\$12,138.00
	D. Decorative Concrete Overlook Pavement	690	SF	\$12.00	\$8,280.00
	Subtotal				\$78,476.50
<b>5</b>	<b>At Grade Crossings &amp; Road Markings</b>				
	A. 10' Curb Ramps w/ Trunc. Domes		EA	\$2,200.00	\$0.00
	Subtotal				\$0.00
<b>6</b>	<b>Utilities</b>				
	A. Light Pole Relocation		EA	\$2,500.00	\$0.00
	B. Electric Distribution & Connections	1	LS	\$20,000.00	\$20,000.00
	C. 25' Light Pole with LED Fixture & Base (100' O.C.)	13	EA	\$4,200.00	\$54,600.00
	D. Underground Electric Conduit & Wire	1300	LF	\$35.00	\$45,500.00
	Subtotal				\$120,100.00
<b>7</b>	<b>Site Amenities</b>				
	A. Bollards		EA	\$800.00	\$0.00
	B. Removable Bollards		EA	\$1,200.00	\$0.00
	C. Trail Signage	1300	LF	\$1.50	\$1,950.00
	D. 6' Black Vinyl Chain Link Security Fence w/ Barbed Wire	780	LF	\$60.00	\$46,800.00
	E. 6' Black Vinyl Chain Link Security Gates (Double Swing)	1	EA	\$5,000.00	\$5,000.00
	F. Bench (500' O.C.)	3	EA	\$2,500.00	\$7,500.00
	G. Trash Receptacle (500' O.C.)	3	EA	\$1,500.00	\$4,500.00
	Subtotal				\$65,750.00
<b>8</b>	<b>Landscape</b>				
	A. Trailside Seeding and Fine Grading	1050	SY	\$1.20	\$1,260.00
	B. Trees (3" Cal., 1 per 50LF)	26	EA	\$450.00	\$11,700.00
	Subtotal				\$12,960.00
<b>9</b>	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	1	LS	\$5,000.00	\$5,000.00
	B. Traffic Control & Maintenance		LS	\$3,000.00	\$0.00
	Subtotal				\$5,000.00
	<b>TOTAL</b>				\$295,386.50
	A. Contingency (15%)				\$44,307.98
	B. General Conditions (5%)				\$16,984.72
	C. Bonds & Insurances (3%)				\$10,190.83
	D. Mobilization/Demobilization (1.5%)				\$5,095.42
	E. Design & Documents (15%)				\$50,954.17
	<b>GRAND TOTAL with Asphalt Trail</b>				\$422,919.62

-	<b>Replace Asphalt Trail Pavement with Aggregate</b>				
	B. 10' Asphalt Pavement	1448	SY	-\$38.00	-\$55,024.00
	C. 10' Aggregate Pavement	1448	SY	\$16.00	\$23,168.00
	Subtotal				-\$31,856.00
	<b>TOTAL</b>				\$263,530.50
	A. Contingency (15%)				\$39,529.58
	B. General Conditions (5%)				\$15,153.00
	C. Bonds & Insurances (3%)				\$9,091.80
	D. Mobilization/Demobilization (1.5%)				\$4,545.90
	E. Design & Documents (15%)				\$45,459.01
	<b>GRAND TOTAL with Aggregate Trail</b>				\$377,309.79

assumptions