



CLIFTON HILLS CONNECTOR 10% DESIGN ESTIMATE FOR RAISE APPLICATION

DESCRIPTION: 0.6 MILE 12 FT WIDE ASPHALT ASPHALT SHARED USE PATH, BOARDWALK, AND PEDESTRIAN BRIDGE FROM NW CORNER OF SOUTHWIDE COMMUNITY PARK TO WEST END OF E 32ND ST.
0.6 MILE 6 FT CONCRETE SIDEWALK AND SHARED LANE MARKINGS FROM WEST END OF E 32ND ST TO CLIFTON HILLS ELEMENTARY SCHOOL

COUNTY: (SEE CLIFTON HILLS CONNECTOR 10% PLAN)
HAMILTON

TOWN/CITY CHATTANOOGA, TN
ESTIMATE BY: DJ/CJA
DATE: 2/15/2024
REVISED:
CHECKED BY: MSR

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1	\$51,000.00	\$51,000.00
201-01	CLEARING AND GRUBBING	LS	1	\$35,000.00	\$35,000.00
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED) (INCLUDING ESTIMATED 1' UNDERCUT IN 50% OF FLOODPLAIN AREA, AND 9,000 CY FLOODWAY COMPENSETORY EXCAVATION)	C.Y.	9851	\$60.00	\$591,060.00
203-03	BORROW EXCAVATION (UNCLASSIFIED) (INCLUDING ESTIMATED 1' BACKFILL OF UNDERCUT IN 50% OF FLOODPLAIN AREA)	C.Y.	3134	\$60.00	\$188,040.00
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1094	\$65.00	\$71,110.00
307-02.06	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B	TON	76	\$350.00	\$26,600.00
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	6	\$1,100.00	\$6,600.00
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	2	\$1,100.00	\$2,200.00
407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	2400	\$6.00	\$14,400.00
411-01.11	ACS MIX(PG64-22) GRADING E Rdwk	TON	349	\$250.00	\$87,250.00
701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	11220	\$15.00	\$168,300.00
701-02	CONCRETE DRIVEWAY	S.F.	2856	\$20.00	\$57,120.00
701-02.03	CONCRETE CURB RAMP	S.F.	720	\$38.00	\$27,360.00
702-01	CONCRETE CURB	C.Y.	7	\$900.00	\$6,300.00
702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	154	\$900.00	\$138,600.00
707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	1300	\$30.00	\$39,000.00
712-01	TRAFFIC CONTROL	LS	1	\$90,000.00	\$90,000.00
716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	830	\$15.00	\$12,450.00
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	80	\$15.00	\$1,200.00
716-04.15	PLASTIC PAVEMENT MARKING-BIKE SYMBOL/ARROW SHARED	EACH	31	\$300.00	\$9,300.00
717-01	MOBILIZATION	LS	1	\$275,100.00	\$275,100.00
	RELOCATE STONE MAILBOX FEATURE	EACH	3	\$2,000.00	\$6,000.00
	CHAIN LINK FENCE	LF	900	\$45.00	\$40,500.00
	3-RAIL WOOD FENCE	LF	420	\$45.00	\$18,900.00
	SPEED CUSHION (SET OF 3 PER LOCATION)	EACH	2	\$7,000.00	\$14,000.00
	NEIGHBORHOOD TRAFFIC CIRCLE (CONCRETE ISLAND)	EACH	2	\$6,000.00	\$12,000.00
	RAISED CROSSWALK	EACH	3	\$7,000.00	\$21,000.00
	WOOD BOARDWALK WITH WOOD AND STEEL WIRE RAILIING (12' CLEAR WIDTH, 20' PILE SPANS, ELEVATED APPROX. 20 FT TO CLEAR 10-YR FLOOD ELEVATION)	LF	1020	\$2,000.00	\$2,040,000.00
	STREET TREES (ONE SIDE OF E 32ND)	EACH	40	\$800.00	\$32,000.00
	80 LF SPAN PEDESTRIAN BRIDGE (PREFABRICATED WEATHERING STEEL SPAN AND CONCRETE DECK)	LS	1	\$336,000.00	\$336,000.00
	SIGNAL AT HWY 72 AND E 32ND ST (UPGRDE PEDESTRIAN SIGNALS WITH 4 NEW PED SIGNAL HEADS, 8 PUSH BUTTONS WITH APS)	LS	1	\$30,000.00	\$30,000.00
	RAILROAD CROSSING AT 32ND ST AND NORFOLK SOUTHERN RR (NEW PEDESTRIAN CROSSING, FLASHING RR SIGNAL REPLACEMENT, ASSUMING NO SIGNAL ARM)	LS	1	\$120,000.00	\$120,000.00

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
	DRAINAGE ALLOWANCE	LS	1	\$280,000.00	\$280,000.00
	EROSION CONTROL ALLOWANCE	LS	1	\$70,000.00	\$70,000.00
	MINOR ITEMS (2.5%)	LS	1	\$117,000.00	\$117,000.00
CONSTRUCTION COST SUBTOTAL (2023):					\$5,035,390.00
	CONTINGENCIES			20.0%	\$1,007,078.00
	UTILITIES (ABOVE GROUND)				\$145,000.00
CONSTRUCTION COST TOTAL (2023)					\$6,188,000.00
	INFLATION FACTOR	4 YEARS		8.0%	\$2,231,000.00
CONSTRUCTION COST TOTAL (2027)					\$8,419,000.00
	DESIGN AND PERMITTING			20.0%	\$1,684,000.00
	CONSTRUCTION ENGINEERING INSPECTION (CEI)			15.0%	\$1,263,000.00
TOTAL ESTIMATED PROJECT COST (2027)					\$11,366,000.00

NOTE: ESTIMATE IS BASED ON PRELIMINARY ENGINEERING, AND IS FOR PLANNING PURPOSES ONLY.
EXCLUDES UNDERGROUND UTILITIES
EXCLUDES ROW ACQUISITION

N:\Shared\PROJECTS\2024\2024.006 Chattanooga, TN RAISE Grant 2024\Products\Cost Estimate\[2024.006_10% Estimate_Clifton Hills Connector.xlsx]Proposal Estimate

Alton Park Connector- Phase 3

Order of Magnitude of Probable Construction Cost (OPCC)

1/4/2022

Cost Estimate Edited by Alta 1/30/2024 in red

ITEM NO.	TDOT ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL	COMMENTS
		Alton Park Connector Corridor	LF	4,125			End of Foundry 33 to Southside Community Park north side at Central Ave
		BASE BID ITEMS					
1	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1	\$38,000	\$38,000	
2	201-01	CLEARING AND GRUBBING	LS	1	\$48,000	\$48,000	6.4 acres @ \$7,500/ac
3	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1	\$5,400	\$5,400	Removal of fencing within corridor
4	202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	S.Y.	120	\$85	\$10,200	
5	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	7,200	\$45	\$324,000	Ditches with 2' overexcavation of contaminated soil. Unit cost assumes contaminated soil to be contained within site beneath clean soil cap
5	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	7,200	\$45	\$324,000	Rebalance of excavated contaminated soil on site
6	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	13,800	\$45	\$621,000	Imported 1.5' depth clean soil cap over contaminated soil (assumed full 7.2 ac.site) less walk area
7	203-07	FURNISHING AND SPREADING TOPSOIL	C.Y.	4,200	\$40	\$168,000	Imported topsoil 6" Depth along corridor less walk area
8	209-03.22	FILTER SOCK (18 INCH)	LF	8,250	\$15	\$123,750	Both sides of trail
9	604-07	RETAINING WALLS	F.F.	840	\$100	\$84,000	Gravity Walls
10	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	430	\$150	\$64,500	
11	701-01.03	CONCRETE SIDEWALK - 4"	S.F.	49,500	\$12	\$594,000	12' wide trail
12	701-01.03	CONCRETE SIDEWALK - 4"	S.F.	2,200	\$12	\$26,400	12' wide connection to parking at Southside Community Park
13		REMOVABLE BOLLARDS	EACH	3	\$950	\$2,850	At connection to parking at Southside Community Park
14	701-01.03	CONCRETE SIDEWALK - 4"	S.F.	500	\$12	\$6,000	6' wide connections to neighborhood
15	701-01.09	ORNAMENTAL CONCRETE (INTEGRAL COLOR)	S.F.	2,500	\$27	\$67,500	Decorative Cross Walks
16	701-02	CONCRETE DRIVEWAY	S.F.	1,800	\$25	\$45,000	At W 33rd and Chandler Place
17	709-02.01	RUBBLE STONE RIP-RAP	C.Y.	120	\$105	\$12,600	2' deep along existing retaining wall
18	712-01	TRAFFIC CONTROL	L.S.	1	\$55,000	\$55,000	
19	713-16.20	SIGN (STOP/REGULATORY)	EACH	4	\$500	\$2,000	2 @ each Vehicular & Rail Crossing
20	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	6,190	\$16	\$99,040	Length of corridor plus 50%
21	714-05.05	PULL BOXES (TYPE C)	EACH	45	\$1,250	\$56,250	1/ light pole 36' O.C.
22	714-08.20	FOUNDATION (ONLY) FOR LIGHT STANDARD	EACH	45	\$2,600	\$117,000	1/ light pole 36' O.C. plus 20% for walk meander
23		IRRIGATION SYSTEM	SF	83,000	\$2.15	\$178,450	10' wide both sides of corridor
24	790-70.20	STREET LIGHT (TYPE "A" LUMINAIRE & POLE)	EACH	45	\$4,000	\$180,000	Pedestrian Light Poles 90' O.C.
25	801-01	SEEDING (SPECIAL MIXTURE) WITH MULCH	S.Y.	15,450	\$2.15	\$33,218	75% of disturbed area outside hardscape
26	802-01.10	TREES (SHADE)	EACH	160	\$850	\$136,000	50' O.C. both sides of the trail
27	802-01.11	TREES (SMALL FLOWERING)	EACH	54	\$320	\$17,280	150' O.C. both sides of the trail
28	802-01.12	TREES (EVERGREEN)	EACH	29	\$850	\$24,650	275' O.C. both sides of the trail
29	802-03.01	SHRUBS	EACH	378	\$90	\$34,020	Mix of 3 gallon and 1 gallon
30		ORNAMENTAL GRASSES	EACH	1,800	\$15	\$27,000	3 gallon
31	802-05.01	TEMPORARY TREE PROTECTION	EACH	150	\$200	\$30,000	
32	803-01	SODDING (NEW SOD)	S.Y.	4,600	\$8.50	\$39,100	5' each side of trail
33	920-10.04	SIGN TYPE - TRAILHEAD ID	EACH	3	\$5,000	\$15,000	1 sign at each trail street crossing, one in Southside Park
34	920-11.04	SIGN TYPE - PEDESTRIAN DIRECTIONAL	EACH	3	\$3,000	\$9,000	1 sign at each trail street crossing, one in Southside Park
35	920-12.04	MILE MARKER PLAQUE IN PAVEMENT	EACH	2	\$1,500	\$3,000	1 each half mile
36		CSX TRAIL CANOPY	AL	1	\$200,000	\$200,000	Allowance that includes permitting and coordination with Railroad
37		NORFOLK SOUTHERN COORDINATION	AL	1	\$50,000	\$50,000	Allowance that includes permitting and coordination with Railroad
38		NORFOLK SOUTHERN CONSTRUCTION COSTS	AL	1	\$50,000	\$65,000	Allowance that considers construction of pedestrian crossing pre-fabricated panels to be installed by NS
39		RAILROAD TIES HAZARDOUS DISPOSAL	AL	1	\$10,000	\$10,000	
		BASE BID ITEMS (2023)				\$3,946,208	
		Mobilization and Minor Items (10%)				\$395,000	
		Contingency (30%)				\$1,184,000	
		Total Base Bid Construction Cost (2023)				\$5,525,208	
		Inflation Factor				\$1,718,000	4 years at 7%
		Total Base Bid Construction Cost (2027)				\$7,243,208	
		Construction Engineering Inspection (CEI)				\$1,086,500	15%
		TOTAL ESTIMATED PROJECT COST				\$8,329,708	

- Notes:**
1. Base cost estimate not prepared by Alta. Edits and adjustments by Alta are limited to those shown in red.
 2. Per direction from the Trust for Public Land, cost of contaminated soil excavation assumes TDEC will allow storage on-site beneath a clean soil or pavement cap. Additional cost may be required for soil remediation and/or export off-site if required by TDEC.