Coonpath Rd and Election House Rd Intersection Feasibility Study

Appendix H Cost Estimates



Coonpath Rd and Election House Rd Intersection

Coonpath Signalized 09/13/24

| DESCRIPTION | TOTAL QUANTITY | UNIT | UNIT PRICE | TOTAL PRICE (2024 dollars) | |
|---|---------------------------------|-----------|-----------------------------|---|--|
| ROADWAY | | | | | |
| Pavement Removed | 1,872 | SQ YD | 8 | \$14,980 | |
| Excavation | 1,500 | CU YD | 30 | \$45,000 | |
| Embankment | 3,000 | CU YD | 18 | \$54,000 | |
| DB (D) (CE | | R | OADWAY SUBTOTAL | \$114,000 | |
| DRAINAGE | | 111110 | **** | * | |
| Drainage | 1 | LUMP | \$20,000.00 | \$20,000 \$20,000 | |
| EROSION CONTROL & BMP ELEMENTS | | <u> </u> | RAINAGE SUBTUTAL | \$20,000 | |
| Erosion Control | 1 | LUMP | \$25,000.00 | \$25,000 | |
| Elosion Control | | | CONTROL SUBTOTAL | \$25,000 \$25.000 | |
| PAVEMENT | | 211001011 | 70KTK02 005 (0 17 K2 | \$20,000 | |
| FULL DEPTH PAVEMENT - ASPHALT | | | | | |
| Asphalt Pavement Build-up | 7,419 | SQ YD | \$100.00 | \$741,889 | |
| | ., | | Ţ.co.co | . , | |
| RESURFACING - ASPHALT | | | | | |
| Asphalt Resurfacing | 7,212 | SQ YD | \$18.00 PAVEMENT SUBTOTAL | \$129,810 | |
| | | F | \$871,700 | | |
| MAINTENTANCE OF TRAFFIC | | | | | |
| MOT | 1 | LUMP | \$60,000.00 | \$60,000 \$60,000 | |
| | MAINTENANCE OF TRAFFIC SUBTOTAL | | | | |
| TRAFFIC CONTROL | | | | | |
| Traffic Control | 1 | LUMP | \$25,000.00 \$300.000.00 | \$25,000 | |
| Signals | 1 | LUMP | \$300,000 \$325,000 | | |
| TRAFFIC CONTROL SUBT | | | | | |
| LIGHTING | 1 | LUMD | ¢75,000,00 | ¢75,000 | |
| Lighting | | LUMP | \$75,000.00 | \$75,000 \$75,000 | |
| CONSTRUCTION MISC. | | _ | IGITING SOBICIAL | Ψ13,000 | |
| Field Office, Type B | 12 | MONTH | 2,000 | \$24,000 | |
| Construction Layout Stakes (0.75% of Total) | 1 | LUMP | 11,180 | \$11,180 | |
| Mobilization | 1 | LUMP | 40.000 | \$40,000 | |
| MODIFIZATION | | | ON MISC. SUBTOTAL | \$75,200 | |
| CONSTRUCTION MISC. SUBTOTOAL | | | | | |
| COST CONTINGENCY - PRELIMINARY ENGINEERING (30%) | | | | \$1,565,900 \$469,770 | |
| TOTAL CONSTRUCTION COST, 2024 DOLLARS | | | | \$2,036,000 | |
| | <u> </u> | | | += ,000,000 | |
| Construction Cost Inflation Data (2004 to 2007) | 47.00/ | | | *************************************** | |
| Construction Cost Inflation Rate (2024 to 2027) | 17.9% | | | \$364,444 | |
| | | | | | |
| CONSTRUCTION COST, 2029 DOLLARS | | | | \$2,401,000 | |
| - ESTIMATE DOES NOT INCLUDE COSTS FOR RIGHT OF WAY ACQUISITIONS OR UTIL | ITY RELOCATION | NS. | | | |
| | | | | | |

Coonpath Rd and Election House Rd Intersection

Shifted Roundabout with Right Turn 09/13/24

| | TOTAL | | UNIT | TOTAL | | |
|---|---------------------------------|----------------|--------------------|-------------------------------|--|--|
| DESCRIPTION | QUANTITY | UNIT | PRICE | PRICE | | |
| | | | | (2024 dollars) | | |
| ROADWAY | | | | | | |
| Pavement Removed | 4,963 | SQ YD | \$8.00 | \$39,700 | | |
| Curb | 490 | FT | \$25.00 | \$12,250 | | |
| Curb and Gutter | 2,317 | FT | \$30.00 | \$69,510 | | |
| Concrete Median | 9,485 | SQ FT | \$10.00 | \$94,850 | | |
| Truck Apron | 325 | SQ YD CU YD | \$135.00 | \$43,830 | | |
| Excavation Embankment | 4,500 7,000 | CU YD | \$30.00 \$18.00 | \$135,000 \$126,000 | | |
| EIIDAIKIIEIK | 1,000 | | OADWAY SUBTOTAL | | | |
| DB 4 DV 4 CE | | K | OADWAY SUBTOTAL | \$521,200 | | |
| DRAINAGE | | LUMB | #400 000 00 | # 400.000 | | |
| Drainage | 1 | LUMP | \$120,000.00 | \$120,000 \$120,000 | | |
| DRAINAGE SUBTOTAL | | | | | | |
| EROSION CONTROL & BMP ELEMENTS Erosion Control | 1 | LUMP | \$75,000.00 | \$75,000 | | |
| Elosion Control | | | CONTROL SUBTOTAL | \$75,000 \$75,000 | | |
| PAVEMENT | | 2,100,011 | JOHN NO CODIONAL | Ψ. 0,000 | | |
| FULL DEPTH PAVEMENT - ASPHALT | Ι | I | | | | |
| Asphalt Pavement Build-up | 6,869 | SQ YD | \$100.00 | \$686,900 | | |
| Tophan Taron Dana ap | 0,000 | | AVEMENT SUBTOTAL | \$686,900 | | |
| MAINTENTANCE OF TRAFFIC | | | | , , , , , , , | | |
| MOT | 1 | LUMP | \$150,000.00 | \$150,000 | | |
| | MAINTENANCE OF TRAFFIC SUBTOTAL | | | | | |
| TRAFFIC CONTROL | | | | | | |
| Traffic Control | 1 | LUMP | \$40,000.00 | \$40,000 | | |
| | TRAFFIC CONTROL SUBTOTAL | | | | | |
| LIGHTING | | | | | | |
| Lighting | 1 | LUMP | \$110,000.00 | \$110,000 | | |
| LIGHTING SUBTOTAL | | | | | | |
| CONSTRUCTION MISC. | | | | | | |
| Field Office, Type B | 12 | MONTH | \$2,000.00 | \$24,000 | | |
| Construction Layout Stakes (0.75% of Total) | 1 | LUMP | \$12,773.25 | \$12,773 | | |
| Mobilization | 1 | LUMP | \$40,000.00 | \$40,000 | | |
| CONSTRUCTION MISC. SUBTOTAL | | | | | | |
| | | CONSTRUCTIO | N COST SUBTOTOAL | \$1,779,900 | | |
| COST CONTINGENCY - PRELIMINARY ENGINEERING (30%) | | | | \$533,970 | | |
| TOTAL CONSTRUCTION COST, 2024 DOLLARS | | | | \$2,314,000 | | |
| | | | | | | |
| Construction Cost Inflation Rate (2024 to 2027) | 17.9% | | | \$414,206 | | |
| Service Service (EVE) | 11.370 | | | Ψ+ 1+,200 | | |
| CONCEDITOR OCCE COSC DOLLARS | | | | A0 E02 222 | | |
| CONSTRUCTION COST, 2029 DOLLARS | | | | \$2,729,000 | | |
| - ESTIMATE DOES NOT INCLUDE COSTS FOR RIGHT OF WAY ACQUISITIONS OR UTIL | | | | | | |

Coonpath Rd and Election House Rd Intersection

Peanut Roundabout 08/07/24

| DESCRIPTION | TOTAL QUANTITY | UNIT | UNIT PRICE | TOTAL PRICE (2024 dollars) |
|---|-----------------------------|----------------|----------------------------------|----------------------------------|
| ROADWAY | | | | , |
| Pavement Removed | 6,444 | SQ YD | \$8.00 | \$51,556 |
| Curb | 2,600 | FT | \$25.00 | \$65,000 |
| Curb and Gutter | 2,900 | FT | \$30.00 | \$87,000 |
| Concrete Median | 10,600 | SQ FT | \$10.00 | \$106,000 |
| Truck Apron | 833 | SQ YD | \$135.00 | \$112,500 |
| Excavation | 4,500 | CU YD | \$30.00 | \$135,000 |
| Embankment | 8,000 | CU YD | \$18.00 | \$144,000 |
| | | | ROADWAY SUBTOTAL | \$701,100 |
| DRAINAGE | | | | 4400000 |
| Drainage | 1 | LUMP | \$120,000.00 | \$120,000 |
| EDOCION CONTEDOL & DMD ELEMENTS | | | PRAINAGE SUBTOTAL | \$120,000 |
| EROSION CONTROL & BMP ELEMENTS | | LUMB | 0400.000.00 | 0400.000 |
| Erosion Control | 1 | LUMP | \$100,000.00 CONTROL SUBTOTAL | \$100,000 \$100,000 |
| PAVEMENT | | ERUSIUN | CONTROL SUBTOTAL | \$100,000 |
| | 1 | <u> </u> | | |
| FULL DEPTH PAVEMENT - ASPHALT Asphalt Pavement Build-up | 10,222 | SQ YD | \$100.00 | \$1,022,222 |
| Asphalt Pavenient Bullu-up | 10,222 | | AVEMENT SUBTOTAL | \$1,022,222 |
| MAINTENTANCE OF TRAFFIC | | <u> </u> | AVENIENT SUBTOTAL | \$1,022,300 |
| MOT | 1 | LUMP | \$150,000.00 | \$150,000 |
| INIO I | | | TRAFFIC SUBTOTAL | \$150,000 \$150,000 |
| TRAFFIC CONTROL | | MAINTENANCE OF | TRAITIO GODIOTAL | Ψ100,000 |
| Traffic Control | 1 | LUMP | \$50,000,00 | \$50.000 |
| Traine Control | TRAFFIC CONTROL SUBTOTAL | | | |
| LIGHTING | | | | \$50,000 |
| Lighting | 1 | LUMP | \$150,000.00 | \$150,000 |
| | LIGHTING SUBTOTAL | | | \$150,000 |
| CONSTRUCTION MISC. | | | | , , , , , , , |
| Field Office, Type B | 12 | MONTH | \$2,000.00 | \$24,000 |
| Construction Layout Stakes (0.75% of Total) | 1 | LUMP | \$17,200.50 | \$17,201 |
| Mobilization | 1 | LUMP | \$40,000.00 | \$40,000 |
| Modification | • | | ION MISC. SUBTOTAL | \$81,300 |
| | CONSTRUCTION COST SUBTOTOAL | | | \$2,374,700 |
| COST CONTINGENCY - PRELIMINARY ENGINEERING (30%) | | | | \$712,410 |
| TOTAL CONSTRUCTION COST, 2024 DOLLARS | | | | \$3,088,000 |
| | T | | Τ | +=,===,== |
| Construction Cost Inflation Data (2024 to 2027) | 47 201 | | | A550 |
| Construction Cost Inflation Rate (2024 to 2027) | 17.9% | | | \$552,752 |
| | | | | |
| CONSTRUCTION COST, 2029 DOLLARS | | | | \$3,641,000 |
| | | | | |