

**APPENDIX G:**  
COST ESTIMATES (2024 Dollars)

**Plantside Drive Extension Study (KYTC Item No. 5-80003)**

| <b>Project Phase</b> | <b>Concept 1</b>     | <b>Concept 2</b>     |
|----------------------|----------------------|----------------------|
| Design               | \$ 1,790,000         | \$ 1,790,000         |
| Right-of-Way*        | \$ 200,000           | \$ 200,000           |
| Utilities**          | \$ 800,000           | \$ 800,000           |
| Construction***      | \$ 24,700,000        | \$ 24,000,000        |
| <b>Total</b>         | <b>\$ 27,490,000</b> | <b>\$ 26,790,000</b> |

**Cost Estimate (2024 Dollars)**

| <b>Project Phase</b>           | <b>Concept 1</b>    | <b>Concept 2</b>    |
|--------------------------------|---------------------|---------------------|
| Design                         | \$1,790,000         | \$1,790,000         |
| Right-of-Way*                  | \$200,000           | \$200,000           |
| Utilities**                    | \$800,000           | \$800,000           |
| Construction                   | \$17,900,000        | \$17,500,000        |
| Contingency***                 | \$5,400,000         | \$5,200,000         |
| Mobilization / Demobilization  | \$1,050,000         | \$1,000,000         |
| Environmental Mitigation       | \$350,000           | \$300,000           |
| <b>Construction Total</b>      | <b>\$24,700,000</b> | <b>\$24,000,000</b> |
| <b>Total Cost (All Phases)</b> | <b>\$27,490,000</b> | <b>\$26,790,000</b> |

\*Right of Way estimate derived from funding allocated in FY 2024 Highway Plan.

\*\*Utility estimate derived from funding allocated in FY 2024 Highway Plan.

\*\*\*Contingency is 30% of proposed construction cost.

**Plantside Drive Extension Study (KYTC Item No. 5-80003)**

**Concept 1 - Construction Cost Estimate**

**Date: October 2024**

**Description: 2-12' lanes 14' TWLTL with 10' Shared Use Path on one side and 5' Sidewalk on the other.**

**Pavement Costs**

|                       |        |            |             |                                  |
|-----------------------|--------|------------|-------------|----------------------------------|
| Mainline Total length |        | 7,068 LF   |             | 1.32 Miles                       |
|                       |        | 38 LF      |             |                                  |
|                       | Area   | 268,584 SF |             |                                  |
| Entrances             |        | 1,865 SY   |             |                                  |
|                       |        | 31,708 SY  |             |                                  |
|                       | Cost @ | \$125.00   |             |                                  |
|                       |        |            | \$3,963,458 |                                  |
| 10' Shared Use Path   |        | 70,680 SF  |             |                                  |
|                       |        | 7,853 SY   |             |                                  |
|                       | Cost @ | \$45.00    |             |                                  |
|                       |        |            | \$353,400   |                                  |
|                       |        |            |             | <b>\$4,316,858</b> Total, Paving |

**Miscellaneous Items**

|   | Qty.    | Units | \$ per Unit Assumptions        |                     |
|---|---------|-------|--------------------------------|---------------------|
| Clearing & Grubbing                               | 1.3     | mi    | \$250,000.00                   | \$330,000           |
| Earthwork   | 256,390 | CY    | \$30.00                        | \$7,691,700         |
| Pond Filling Est. 5' Water Depth with 3' Undercut | 14,600  | CY    | \$30.00                        | \$438,000           |
| 12'x6' RCBC                                       | 275     | LF    | \$3,650.00                     | \$1,003,750         |
| Standard Curb and Gutter                          | 15,696  | LF    | \$40.00                        | \$627,840           |
| Sidewalk - 4 in. Concrete                         | 3,927   | SY    | \$100.00                       | \$392,667           |
| Traffic Signal                                    | 1       | EACH  | \$150,000.00                   | \$150,000           |
| Mill & Overlay                                    | 2,497   | SY    | \$30.00                        | \$74,900            |
| Concrete Island                                   | 367     | SY    | \$75.00                        | \$27,500            |
| Guardrail   | 1,000   | LF    | \$40.00                        | \$40,000            |
| Guardrail Connector to Bridge End TY A /A1        | 4       | EACH  | \$3,600.00                     | \$14,400            |
| Guardrail End Treatment TY 1                      | 4       | EACH  | \$4,200.00                     | \$16,800            |
| Retaining Wall - MSE                              | 8,400   | SF    | \$100.00                       | \$840,000           |
| Handrail Type A-1                                 | 300     | LF    | \$95.00                        | \$28,500            |
| Pavement Striping                                 | 31,806  | LF    | \$2.00                         | \$63,612            |
| Misc. drainage, erosion control, etc.             |         |       | 40% paving                     | \$1,726,743         |
| Maintenance of Traffic                            |         | LS    |                                | \$150,000           |
|   |         |       | Subtotal                       | <b>\$17,933,270</b> |
|   |         |       | Contingency (30%)              | \$5,379,981         |
|   |         |       | Mobilization (3%)              | \$699,398           |
|   |         |       | Demobilization (1.5%)          | \$349,699           |
|   |         |       | Stream Mitigation              | \$350,000           |
|   |         |       | <b>TOTAL CONSTRUCTION COST</b> | <b>\$24,700,000</b> |

**Plantside Drive Extension Study (KYTC Item No. 5-80003)**

**Concept 2 - Construction Cost Estimate**

Date: October 2024

Description: 2-12' lanes 14' TWLTL with 10' Shared Use Path on one side and 5' Sidewalk on the other.

**Pavement Costs**

|                       |            |                                  |
|-----------------------|------------|----------------------------------|
| Mainline Total length | 6,726 LF   | 1.27 Miles                       |
|                       | 38 LF      |                                  |
| Area                  | 255,588 SF |                                  |
| Entrances             | 1,865 SY   |                                  |
|                       | 30,264 SY  |                                  |
| Cost @                | \$125.00   |                                  |
|                       |            | \$3,782,958                      |
| 10' Shared Use Path   | 67,260 SF  |                                  |
|                       | 7,473 SY   |                                  |
| Cost @                | \$45.00    |                                  |
|                       |            | \$336,300                        |
|                       |            | <b>\$4,119,258</b> Total, Paving |

**Miscellaneous Items**

|   | Qty.    | Units | \$ per Unit Assumptions        |                     |
|---|---------|-------|--------------------------------|---------------------|
| Clearing & Grubbing                               | 1.3     | mi    | \$250,000.00                   | \$317,500           |
| Earthwork   | 259,180 | CY    | \$30.00                        | \$7,775,400         |
| Pond Filling Est. 5' Water Depth with 3' Undercut | 14,600  | CY    | \$30.00                        | \$438,000           |
| 12'x6' RCBC                                       | 220     | LF    | \$3,650.00                     | \$803,000           |
| Standard Curb and Gutter                          | 15,012  | LF    | \$40.00                        | \$600,480           |
| Sidewalk - 4 in. Concrete                         | 3,737   | SY    | \$100.00                       | \$373,667           |
| Traffic Signal                                    | 1       | EACH  | \$150,000.00                   | \$150,000           |
| Mill & Overlay                                    | 2,497   | SY    | \$30.00                        | \$74,900            |
| Concrete Island                                   | 367     | SY    | \$75.00                        | \$27,500            |
| Guardrail   | 800     | LF    | \$40.00                        | \$32,000            |
| Guardrail Connector to Bridge End TY A /A1        | 4       | EACH  | \$3,600.00                     | \$14,400            |
| Guardrail End Treatment TY 1                      | 4       | EACH  | \$4,200.00                     | \$16,800            |
| Retaining Wall - MSE                              | 8,400   | SF    | \$100.00                       | \$840,000           |
| Handrail Type A-1                                 | 300     | LF    | \$95.00                        | \$28,500            |
| Pavement Striping                                 | 30,267  | LF    | \$2.00                         | \$60,534            |
| Misc. drainage, erosion control, etc.             |         |       | 40% paving                     | \$1,647,703         |
| Maintenance of Traffic                            |         | LS    |                                | \$150,000           |
|   |         |       | Subtotal                       | <b>\$17,469,642</b> |
|   |         |       | Contingency (30%)              | \$5,240,893         |
|   |         |       | Mobilization (3%)              | \$681,316           |
|   |         |       | Demobilization (1.5%)          | \$340,658           |
|   |         |       | Stream Mitigation              | \$300,000           |
|   |         |       | <b>TOTAL CONSTRUCTION COST</b> | <b>\$24,000,000</b> |