

**To:** Members of Dublin City Council  
**From:** Marsha I. Grigsby, City Manager   
**Date:** October 30, 2014  
**Initiated By:** Paul A. Hammersmith, PE, Director of Engineering/City Engineer  
Jean-Ellen M. Willis, PE, Engineering Manager - Transportation  
**Re:** Resolution 87-14 - Authorizing the City Manager to enter into a Contribution Agreement with the City of Columbus for the Sawmill Road/Hard Road Intersection Improvements, Part 2 Project

## Summary

The adopted Dublin 2014 – 2018 Capital Improvements Program carries forward the Sawmill Road/Hard Road intersection improvement project (Project #ET0605) with the addition of right-turn lanes, additional left-turn lanes and modification to the traffic signal. The project will be funded by service payments from the Lifetime Fitness tax-increment financing district.

The City of Columbus has completed the detailed construction drawings for the final phase of improvements to Hard Road, which will complete the widening of Hard Road to four lanes from Smokey Row Road to Sawmill Road. The City of Columbus and City of Dublin have been working to coordinate these projects to be built together for construction efficiencies, and to save time and money. The Sawmill Road/Hard Road Intersection Improvement, Part 2 project drawings have been incorporated into the Hard Road Widening construction drawings. The City of Columbus anticipates opening bids for both projects in February 2015 with construction beginning in late May 2015.

The City of Columbus will manage the bidding and construction of the two projects. The estimated construction cost for the Sawmill Road/Hard Road Intersection Improvements, Part 2 project, including all anticipated inspection services during construction, is \$2,048,336.40. Within the adopted 2012-2016 Capital Improvements Program, \$1,900,000 is programmed in 2015 to construct this project. The proposed Contribution Agreement provides that Dublin will deposit with Columbus \$2,048,336.40 before the project is awarded for construction. The proposed Contribution Agreement is attached for your review.

Right-of-Way acquisition was completed in August of this year and utility relocations are ongoing. Utilities are expected to be cleared by December.

## Recommendation

Staff recommends approval of Resolution 87-14, authorizing the City Manager to enter into a Contribution Agreement with the City of Columbus for the Sawmill Road/Hard Road Intersection Improvements, Part 2 Project.

# RECORD OF RESOLUTIONS

Dayton Legal Blank, Inc., Form No. 30045

87-14

Resolution No. \_\_\_\_\_

Passed \_\_\_\_\_

20\_\_\_\_

**A RESOLUTION AUTHORIZING THE CITY MANAGER TO ENTER INTO A CONTRIBUTION AGREEMENT WITH THE CITY OF COLUMBUS FOR THE SAWMILL ROAD/HARD ROAD INTERSECTION IMPROVEMENTS, PART 2 PROJECT**

**WHEREAS**, the City of Dublin and the City of Columbus have agreed to cooperatively construct the identified transportation improvement project; and

**WHEREAS**, the Parties entered into the Agreement to widen and improve Hard Road from Sawmill Road east to Smoky Row Road, including improvement to the intersection at Hard Road and Sawmill Road ("the Project"); and

**WHEREAS**, the City of Columbus agrees to accept a deposit of funds from the City of Dublin for the City of Columbus to construct certain necessary improvements on behalf of the City of Dublin, and in the City of Dublin's jurisdiction, with the City of Columbus Arterial Street Rehabilitation – Hard Road Phase A (Sawmill Road to Smoky Row Road) project; and

**WHEREAS**, the estimated construction cost for the Sawmill Road/Hard Road Intersection Improvements, Part 2 project, including all anticipated inspection services during construction, is \$2,048,336.40, to be deposited to the City of Columbus prior to awarding the construction contract; and,

**WHEREAS**, the City of Columbus proposes to construct or to cause to be constructed public improvements, including those as identified in the attached Exhibits A and B; and

**WHEREAS**, the City of Columbus and the City of Dublin recognize the benefit that public improvements will have on its citizens and that it is in the best interests of the City of Columbus and the City of Dublin to enter into a Contribution Agreement.

**NOW, THEREFORE, BE IT RESOLVED** by the Council of the City of Dublin, State of Ohio, \_\_\_\_\_ of the elected members concurring:

**Section 1.** The City Manager is hereby authorized to enter into an Contribution Agreement with the City of Columbus for the improvement of the intersection of Hard and Sawmill Roads, in substantially the same form as attached, with changes not inconsistent with this Resolution and not substantially adverse to this City and which shall be approved by the City Manager and Director of Finance. The approval of changes thereto by those officials, and their character as not being substantially adverse to the City, shall be evidenced conclusively by their execution thereof.

**Section 2.** This Council hereby authorizes and directs the City Manager, the Clerk of Council, the Director of Law, the Director of Finance, or other appropriate officers of the City to prepare and sign all agreements and instruments and to take any other actions as may be appropriate to implement this Resolution. This Council further authorizes the City Manager and the Director of Finance, for and in the name of the City, to execute any amendments to the Contribution Agreement, which amendments are not inconsistent with this Resolution and not substantially adverse to this City.

**Section 3.** This Resolution shall take effect upon adoption in accordance with Section 4.04(a) of the Revised Charter.

Passed this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
Mayor - Presiding Officer

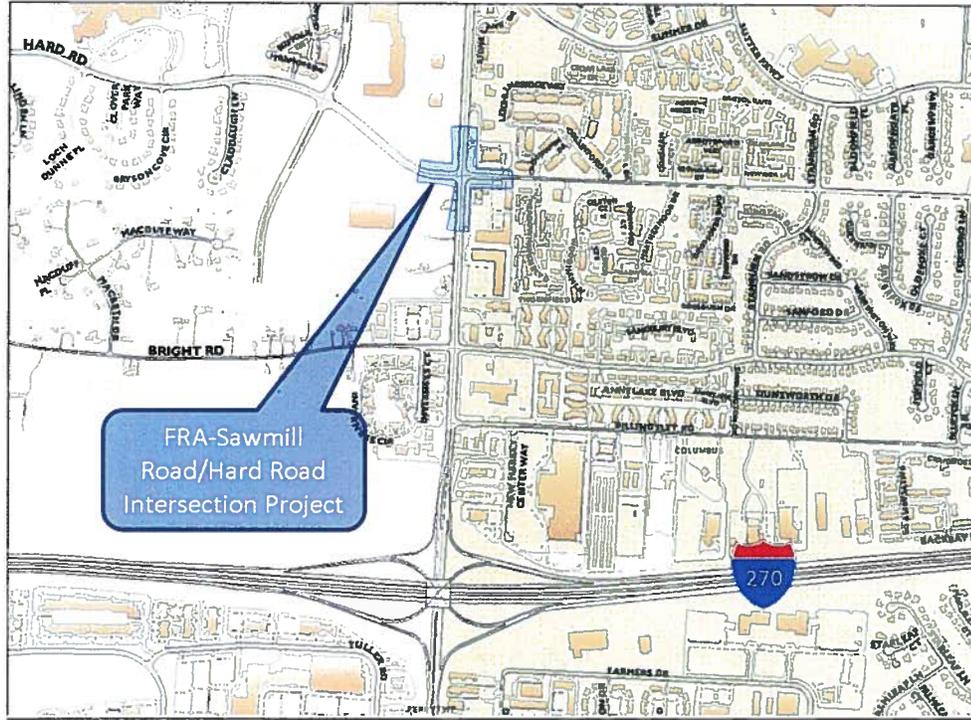
Attest:

\_\_\_\_\_  
Clerk of Council

## EXHIBIT A - DESCRIPTION OF WORK

The intersection improvement portion of the project, or FRA-Sawmill Road/Hard Road Intersection Improvements, Part 2, consists of the widening and resurfacing of 0.32 mile of Sawmill Road and 0.17 mile of Hard Road, including the addition of dual left turn lanes on all four approaches and right turn lanes in the on Sawmill Road along with eastbound Hard Road. The project will include the addition of curb and gutter, sidewalk, and shared use path.

**EXHIBIT B PROJECT LOCATION MAP**



**CAPITAL IMPROVEMENTS PROJECT  
CONTRIBUTION AGREEMENT  
BETWEEN  
CITY OF COLUMBUS, OHIO  
AND  
CITY OF DUBLIN, OHIO  
ARTERIAL STREET REHABILITATION – HARD ROAD PHASE A  
(SAWMILL ROAD TO SMOKY ROW ROAD)  
CAPITAL IMPROVEMENT PROJECT 530103-100044**

This Contribution Agreement (the “AGREEMENT”), made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2014 (the “Effective Date”), by and between the City of Columbus, Ohio acting through its Director of Public Service, hereinafter designated as COLUMBUS, pursuant to and under the authority of Ordinance No. \_\_\_\_\_, passed by the City Council of the City of Columbus, approved by the Mayor of said city, and attested to by the City Clerk on the \_\_\_\_\_ day of \_\_\_\_\_ 2014, and the City of Dublin, an Ohio municipal corporation, with its offices at 5200 Emerald Parkway, Ohio 43017, pursuant to and under the authority of Resolution No. \_\_\_\_\_, passed by the City Council of the City of Dublin, approved by the Mayor of said city, hereafter designated DUBLIN; and

**WHEREAS**, COLUMBUS agrees to accept a deposit of funds from DUBLIN for COLUMBUS to construct certain necessary improvements on behalf of DUBLIN, and in DUBLIN’s jurisdiction, with COLUMBUS’ Arterial Street Rehabilitation – Hard Road Phase A (Sawmill Road to Smoky Row Road) project; and

**WHEREAS**, COLUMBUS proposes to construct or to cause to be constructed public improvements, including those as identified in Exhibits A and B attached hereto and incorporated herein and further known as the “Improvements”; and

**WHEREAS**, COLUMBUS and DUBLIN recognize the benefit that public improvements will have on its citizens and that it is in the best interests of COLUMBUS and DUBLIN to enter into a Contribution Agreement;

**NOW THEREFORE**, for and in consideration of the mutual covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto do hereby covenant and agree, as follows:

**1. DEFINITIONS:**

- A. “Contract Documents” shall mean collectively: a) this Agreement, including attachments/exhibits, b) the approved plans and specifications for the Improvements, and c) the technical specifications set forth in the most recent edition of the “City of Columbus, Ohio Construction and Materials Specifications Manual” (CMSM), including all supplemental specifications.
- B. “Cost of Work” is defined as the total cost of the project for the construction and inspection of the Improvements.
- C. “Estimated Cost” means **\$2,048,336.40** for the Improvements within the DUBLIN corporation limits and specifically identified within Exhibit C, with the total not to exceed said amount, unless and until additional amounts are appropriated by DUBLIN and an appropriate modification of this agreement is entered into by the parties.

D. “Work” means the construction of the Improvements.

2. **CONTRACT TERM:** This contract shall commence on the date of execution and shall terminate after the Project Guaranty has expired.
3. **GENERAL CONSIDERATIONS:** In consideration of the promises of DUBLIN set forth herein, COLUMBUS agrees to construct, or cause to be constructed, the capital improvements identified in Exhibit A. In making the Improvements, DUBLIN shall fully cooperate with COLUMBUS and shall follow and comply with all reasonable requests of COLUMBUS. COLUMBUS or its contractor(s) shall be responsible for complying with all Federal, State, and Local laws.

In communications with each other, COLUMBUS and DUBLIN shall respond in a timely manner, and DUBLIN'S approvals will not be unreasonably conditioned, withheld, or delayed.

4. **PROCUREMENT OF SERVICES:** COLUMBUS, through its Department of Public Service, reserves the exclusive right to select any contractors who may be necessary to execute the construction of the Improvements consistent with City of Columbus Codes and Policies. COLUMBUS shall own the construction contract, provide inspection services, and shall provide direction to the Contractor. DUBLIN shall provide a construction liaison inspector to interface with COLUMBUS for the Improvements in DUBLIN's jurisdiction. If DUBLIN has a concern about the Work in DUBLIN'S jurisdiction, DUBLIN shall inform COLUMBUS and COLUMBUS shall inform the Contractor as appropriate. COLUMBUS shall ensure that DUBLIN's concerns about the Work in DUBLIN'S jurisdiction are cured.
5. **INSPECTION:** COLUMBUS shall do and perform all inspection services for the Improvements, including the following:
  - A. Directly interfacing with the Contractor.
  - B. Directly interface with the Consultant as needed.
  - C. Manage the change order process and shall seek DUBLIN's approval of change orders in DUBLIN'S jurisdiction.
  - D. Invite DUBLIN to the final punch list and walkthrough of the Project.
  - E. Upon final approval and acceptance of the Improvements shall notify the Contractor and DUBLIN in writing.
  - F. Perform the one year warranty inspection and provide DUBLIN a final report. DUBLIN shall be invited to attend the one year inspection walk-through.
6. **CONTRIBUTION:** DUBLIN shall contribute \$2,048,336.40 to COLUMBUS for the costs associated with the construction and inspection of the Improvements described in Exhibits A and B and as authorized by the Ordinance and Resolution referenced in paragraph 1 of this Agreement. The Contribution and execution of this Agreement shall be made before COLUMBUS advertises the project.

Check shall be made out to: City Treasurer – Columbus and delivered to:

Department of Public Service  
Office of Support Services  
50 W. Gay St. – 5<sup>th</sup> Floor  
Columbus, Ohio 43215

Attn: Alex Cofield

7. **PROJECT GUARANTY:** COLUMBUS shall require its Contractor(s) to warrant that the Work shall be free from defects in materials and workmanship (without regard to the standard of care exercised in its performance) for a period of one (1) year after final written acceptance of the Work. COLUMBUS's contractor(s) shall at its own expense:
  - A. Correct or re-execute any of the Work that fails to conform to the requirements of the Contract Documents and appears during the prosecution of the Work.
  - B. Correct any defects in materials and workmanship of the Work (without regard to the standard of care exercised in its performance) which appear within a period of one (1) year after final written acceptance of the Work or within such longer period of time as may be set forth in the Contract Documents, and
  - C. Replace, repair, or restore any parts of the Work or any of the fixtures, equipment, or other items placed therein that are injured or damaged as a consequence of any such failure or defect, or as a consequence of corrective action taken pursuant hereto
8. **ACCEPTANCE OF THE WORK:** Acceptance of the Improvements by DUBLIN shall not relieve COLUMBUS of its responsibility for defects in material or workmanship as set forth in Section 7.
9. **PERFORMANCE AND PAYMENT BOND:** COLUMBUS shall require the contractor who performs the Improvements to execute a contract performance and payment bond for 100% of the Work.
10. **PUBLIC USE:** DUBLIN and COLUMBUS agree that all Improvements under this contract shall be dedicated for public use. Upon expiration of the Project Guaranty as set forth in Section 7 herein, DUBLIN shall accept all maintenance responsibility for the Improvements within their jurisdiction constructed under this Agreement.
11. **EXCLUSIVE RIGHT:** DUBLIN agrees that the Estimated Cost for the Improvements will be limited to those items specifically delineated within Exhibit C. COLUMBUS, through the DIRECTOR, may consider authorizing reasonable increases and/or decreases in said items, or approving new items within the DUBLIN right-of-way that are deemed reasonable to the successful completion of the Project, so long as the cost therein does not exceed the Estimated Cost and only after DUBLIN's written approval.
12. **COOPERATION:** If, during the course of Work, it is anticipated that the Cost of Work shall exceed the Contribution amount of \$2,048,336.40, COLUMBUS and DUBLIN shall make every effort to discuss the issue(s) and identify the party responsible for funding the increase Cost of Work before the work commences, unless COLUMBUS deems the work an emergency. If COLUMBUS deems the work an emergency, discussion of fiscal responsibility shall occur immediately after the work has commenced. DUBLIN shall be responsible for, but not limited to, unforeseen site conditions resulting in increased cost in their jurisdiction. COLUMBUS shall be responsible for, but not limited to, work performed by COLUMBUS' contractor. Notwithstanding the foregoing, COLUMBUS and DUBLIN agree to cooperate and negotiate in good faith an appropriate modification of this Agreement in the event the scope of Work and/or Cost of Work is materially different than anticipated by the parties hereto at the time of this Agreement. If the actual Cost of Work is greater than the \$2,048,336.40, and, as set forth above, DUBLIN is responsible for such increased cost, COLUMBUS and DUBLIN shall promptly execute a contract modification to increase the Cost of Work amount to reflect the additional amount needed.

13. **CONSTRUCTION INSPECTION APPROVAL:** When COLUMBUS's contractor(s) completes all of the Improvements set forth within Exhibit A, DUBLIN may request a final inspection. If items remain that must be completed or remedied by COLUMBUS' contractor(s) as determined by DUBLIN, COLUMBUS shall cause the work to be performed immediately upon being notified. All work must pass final inspection by COLUMBUS and DUBLIN and include a final accounting of the construction items utilized.

14. **FINAL ACCOUNTING:** For purposes of determining the final construction cost of the project, COLUMBUS shall be required to keep complete and accurate books of account showing the Cost of Work and shall provide documentation of project related expenditures. When COLUMBUS has made final inspection and has deemed the Improvement to have been constructed in accordance with the contract documents, COLUMBUS shall proceed with a final accounting to arrive at the Cost of Work.

If the Cost of Work is greater than the Estimated Cost and additional funding is required, COLUMBUS and DUBLIN shall promptly modify this agreement, and DUBLIN shall make payment to COLUMBUS within 30 days of receipt of invoice and copy of executed agreement modification.

If the Cost of Work is less than the Estimated Cost, COLUMBUS shall process a refund and make payment to DUBLIN within 30 days after the final Cost of Work is determined.

15. **LEGAL JURISDICTION:** All claims, counterclaims, disputes and other matters in question between DUBLIN, its agents and employees, and COLUMBUS, its contractors, subcontractors, agents, and employees arising out of or relating to this Agreement or its breach will be decided in a court of competent jurisdiction within the County of Franklin, State of Ohio.

16. **ENTIRE AGREEMENT:** This Agreement shall constitute the entire agreement between the parties and shall supersede all prior agreements, proposals, representations, negotiations and letters of intent, whether written or oral, pertaining to the Work.

17. **ADDITIONAL DOCUMENTATION:** The following document exhibits to be hereby incorporated into and made part of the Contract as though specifically rewritten herein:

- A. Exhibit A: Description of work
- B. Exhibit B: Project location map
- C. Exhibit C: Estimated Cost
- D. Exhibit D: Executed construction contract, incorporated by reference as if attached

**IN WITNESS WHEREOF**, the parties have caused this Agreement to be executed by their duly authorized officers on the dates appearing below.

**CITY OF COLUMBUS**

**CITY OF DUBLIN**

By: \_\_\_\_\_  
Tracie Davies, Director  
Department of Public Service

By: \_\_\_\_\_  
Marsha I. Grigsby  
City Manager

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**APPROVED AS TO FORM AND  
CORRECTNESS:**  
Richard C. Pfeiffer, Jr.  
Columbus City Attorney

**APPROVED AS TO FORM AND  
CORRECTNESS:**  
Dublin City Attorney

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Date

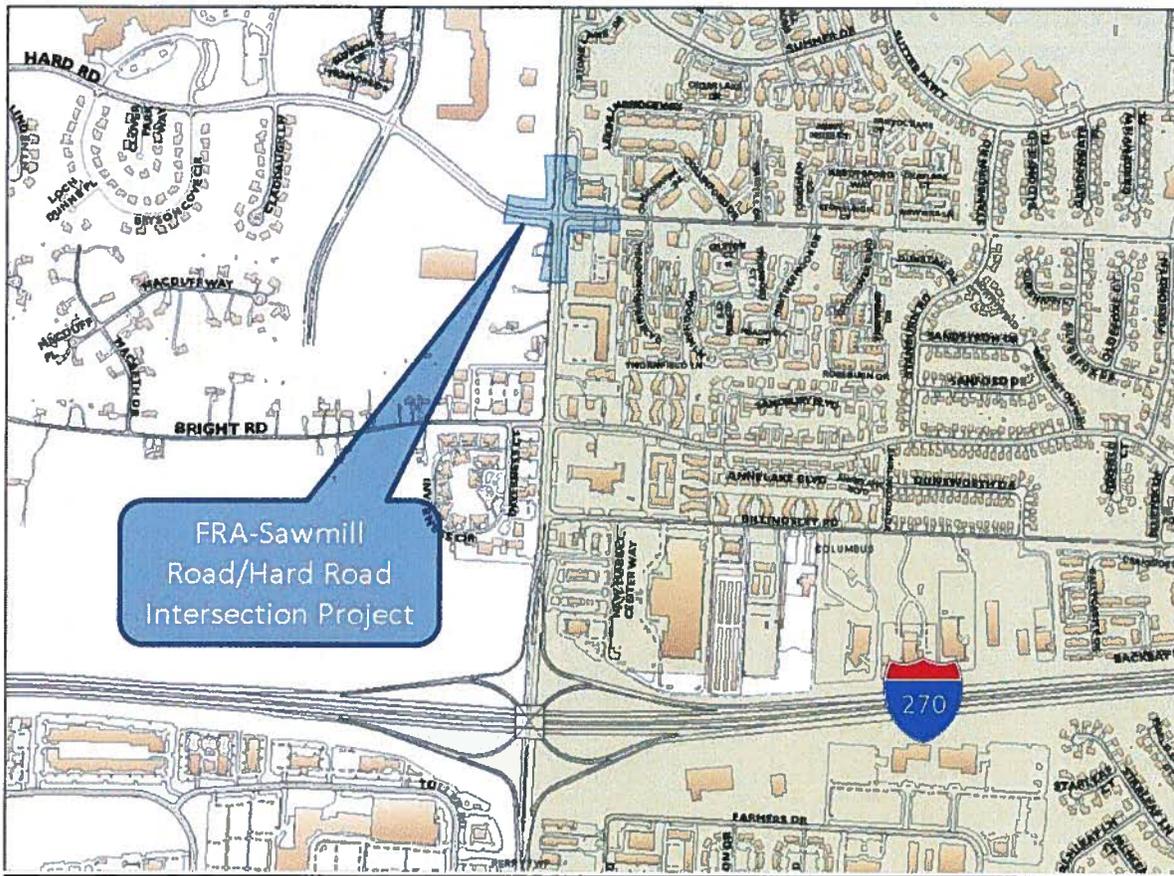
\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

## **EXHIBIT A - DESCRIPTION OF WORK**

Dublin's portion of the project is the improvement of the intersection of Sawmill Road and Hard Road. The intersection improvement portion of the project, or FRA-Sawmill Road/Hard Road Intersection Improvements, Part 2, consists of the widening and resurfacing of 0.32 mile of Sawmill Road and 0.17 mile of Hard Road, including the addition of dual left turn lanes on all four approaches and right turn lanes in the on Sawmill Road along with eastbound Hard Road. The project will include the addition of curb and gutter, sidewalk, and shared use path.

**EXHIBIT B PROJECT LOCATION MAP**



**EXHIBIT C – ESTIMATED COSTS**

| Phase                  | Amount              |
|------------------------|---------------------|
| Construction Estimate* | \$1,862,124.00      |
| Inspection (10%)       | <u>\$186,212.40</u> |
| Total                  | \$2,048,336.40      |

\*See attached Engineer's Estimate

Sawmill/Hard Intersection Improvements Construction Cost Estimate  
Stantec Consulting Services, Inc.

| Item | Description  | Total | Unit  | Unit Cost    | Cost         |
|------|--|-------|-------|--------------|--------------|
|      | <b>GENERAL</b>                                     |       |       |              | <b>Total</b> |
| 614  | Maintaining Traffic                                | LUMP  |       | \$ 40,000.00 | \$ 40,000    |
| 623  | Construction Layout Stakes                         | LUMP  |       | \$ 15,000.00 | \$ 15,000    |
| 623  | Proof Survey                                       | LUMP  |       | \$ 5,000.00  | \$ 5,000     |
| 624  | Mobilization                                       | LUMP  |       | \$ 40,000.00 | \$ 40,000    |
|      |  |       |       |              | \$ 100,000   |
|      | <b>ROADWAY</b>                                     |       |       |              |              |
| 201  | Clearing & Grubbing                                | LUMP  |       | \$ 10,000.00 | \$ 10,000    |
| 201  | Trees or Stumps Removed, 15" Size                  | 8     | EA    | \$ 400.00    | \$ 3,200     |
| 201  | Trees or Stumps Removed, 48" Size                  | 1     | EA    | \$ 1,000.00  | \$ 1,000     |
| 202  | Catch Basin Removed                                | 10    | EA    | \$ 300.00    | \$ 3,000     |
| 202  | Manhole Removed                                    | 5     | EA    | \$ 500.00    | \$ 2,500     |
| 202  | Pipe Removed                                       | 693   | FT    | \$ 30.00     | \$ 20,790    |
| 202  | Pipe Filled In Place                               | 64    | FT    | \$ 25.00     | \$ 1,600     |
| 202  | Walk Removed                                       | 3998  | SF    | \$ 2.50      | \$ 9,995     |
| 202  | Concrete Pavement Removed                          | 194   | SY    | \$ 25.00     | \$ 4,850     |
| 202  | Curb and Gutter Removed                            | 3322  | FT    | \$ 8.00      | \$ 26,576    |
| 202  | Curb Removed                                       | 311   | FT    | \$ 5.00      | \$ 1,555     |
| 202  | Guardrail Removed                                  | 117   | FT    | \$ 2.50      | \$ 293       |
| 202  | Valve Box Removed                                  | 3     | EA    | \$ 100.00    | \$ 300       |
| 203  | Excavation   | 5186  | CY    | \$ 15.00     | \$ 77,790    |
| 203  | Granular Embankment, #2 Stone                      | 400   | CY    | \$ 30.00     | \$ 12,000    |
| 203  | Embankment   | 1064  | CY    | \$ 10.00     | \$ 10,640    |
| 204  | Subgrade Compaction                                | 6761  | SY    | \$ 2.00      | \$ 13,522    |
| 204  | Proof Rolling                                      | 4     | HR    | \$ 250.00    | \$ 1,000     |
| 608  | 4" Concrete Walk, As Per Plan                      | 7441  | SF    | \$ 6.00      | \$ 44,646    |
| 608  | 8" Concrete Walk, As Per Plan                      | 2840  | SF    | \$ 10.00     | \$ 28,400    |
| 608  | Curb Ramps   | 10    | EA    | \$ 400.00    | \$ 4,000     |
| 653  | Topsoil Furnished And Placed, As Per Plan          | 374   | CY    | \$ 30.00     | \$ 11,220    |
| 1551 | Detectable Warnings                                | 12    | EA    | \$ 225.00    | \$ 2,700     |
|      |  |       |       |              | \$ 291,577   |
|      | <b>EROSION CONTROL</b>                             |       |       |              |              |
| 207  | Perimeter Filter Fabric Fence                      | 897   | FT    | \$ 2.50      | \$ 2,243     |
| 207  | Inlet Protection                                   | 325   | FT    | \$ 7.00      | \$ 2,275     |
| 207  | Inlet Protection, As Per Plan                      | 19    | EA    | \$ 175.00    | \$ 3,325     |
| 207  | Construction Seeding and Mulching                  | 575   | SY    | \$ 1.50      | \$ 863       |
| 601  | Rock Channel Protection, Type C with Filter Fabric | 1     | CY    | \$ 60.00     | \$ 60        |
| 659  | Seeding and Mulching, As Per Plan                  | 4483  | SY    | \$ 1.50      | \$ 6,725     |
| 659  | Repair Seeding and Mulching                        | 225   | SY    | \$ 1.50      | \$ 338       |
| 659  | Commercial Fertilizer                              | 0.60  | TON   | \$ 650.00    | \$ 390       |
| 659  | Lime   | 0.93  | ACRE  | \$ 70.00     | \$ 65        |
| 659  | Water  | 24    | M GAL | \$ 5.00      | \$ 120       |
| SPEC | Tree Protection Fence                              | 500   | LF    | \$ 3.00      | \$ 1,500     |
|      |  |       |       |              | \$ 17,902    |

Sawmill/Hard Intersection Improvements Construction Cost Estimate  
Stantec Consulting Services, Inc.

| Item | Description   | Total | Unit | Unit Cost   | Cost              |
|------|---|-------|------|-------------|-------------------|
|      |   |       |      |             | <b>Total</b>      |
|      | <b>DRAINAGE</b>   |       |      |             |                   |
| 604  | Manhole, Type C   | 7     | EA   | \$ 2,500.00 | \$ 17,500         |
| 604  | Manhole Adjusted to Grade                                       | 3     | EA   | \$ 900.00   | \$ 2,700          |
| 604  | Inlet, Type AA-S125A, As Per Plan                               | 14    | EA   | \$ 1,500.00 | \$ 21,000         |
| 604  | Inlet, Type AA-S125B, As Per Plan                               | 5     | EA   | \$ 2,500.00 | \$ 12,500         |
| 605  | 4" Shallow Pipe Underdrains                                     | 1887  | FT   | \$ 7.00     | \$ 13,209         |
| 901  | 12" Pipe, with Type 1 Bedding, Class IV, 706.02                 | 470   | LF   | \$ 60.00    | \$ 28,200         |
| 901  | 12" Pipe, Concrete Encased, 706.02                              | 163   | LF   | \$ 90.00    | \$ 14,670         |
| 901  | 15" Pipe, with Type 1 Bedding, Class IV, 706.02                 | 77    | LF   | \$ 70.00    | \$ 5,390          |
| 901  | 15" Pipe, Concrete Encased, 706.02                              | 14    | LF   | \$ 105.00   | \$ 1,470          |
| 901  | 42" Pipe, with Type 1 Bedding, Class II, 706.02                 | 478   | LF   | \$ 125.00   | \$ 59,750         |
| 901  | 42" Pipe, Concrete Encased, 706.02                              | 27    | LF   | \$ 180.00   | \$ 4,860          |
| SPEC | ADS Flared End Section with Dissimilar Coupler                  | 1     | EA   | \$ 600.00   | \$ 600            |
|      |   |       |      |             | <b>\$ 181,849</b> |
|      | <b>PAVEMENT</b>   |       |      |             |                   |
| 254  | Pavement Planing, Asphalt Concrete                              | 17400 | SY   | \$ 1.50     | \$ 26,100         |
| 304  | Aggregate Base (Roadway)  | 566   | CY   | \$ 40.00    | \$ 22,640         |
| 304  | Aggregate Base (Shared Use Path)                                | 259   | CY   | \$ 50.00    | \$ 12,950         |
| 305  | 8" Concrete Base  | 5082  | SY   | \$ 35.00    | \$ 177,870        |
| 407  | NTSS-1HM Trackless Tack Coat                                    | 509   | GAL  | \$ 7.50     | \$ 3,818          |
| 448  | Asphalt Concrete, Intermediate Course (Heavy Traffic), PG64-22  | 213   | CY   | \$ 130.00   | \$ 27,690         |
| 448  | Asphalt Concrete, Intermediate Course (Medium Traffic), PG64-22 | 3     | CY   | \$ 195.00   | \$ 585            |
| 448  | Asphalt Concrete, Surface Course (Heavy Traffic), PG64-22       | 938   | CY   | \$ 160.00   | \$ 150,080        |
| 448  | Asphalt Concrete, Surface Course (Medium Traffic), PG64-22      | 74    | CY   | \$ 240.00   | \$ 17,760         |
| 452  | 6" Non-Reinforced Concrete Pavement, As Per Plan                | 15    | SY   | \$ 80.00    | \$ 1,200          |
| 452  | 8" Non-Reinforced Concrete Pavement, As Per Plan                | 123   | SY   | \$ 85.00    | \$ 10,455         |
| 609  | Combination Curb And Gutter, Type Special 8"                    | 2458  | FT   | \$ 20.00    | \$ 49,160         |
| 609  | Combination Curb And Gutter, As Per Plan                        | 771   | FT   | \$ 20.00    | \$ 15,420         |
| 609  | Curb, Straight 18"  | 195   | FT   | \$ 14.00    | \$ 2,730          |
| 609  | 6" Concrete Traffic Island                                      | 66    | SY   | \$ 55.00    | \$ 3,630          |
| SPEC | Brick Pavers, As Per Plan                                       | 2952  | SF   | \$ 20.00    | \$ 59,040         |
|      |   |       |      |             | <b>\$ 581,128</b> |

Sawmill/Hard Intersection Improvements Construction Cost Estimate  
Stantec Consulting Services, Inc.

| Item | Description  | Total | Unit | Unit Cost   | Cost             |
|------|--|-------|------|-------------|------------------|
|      |  |       |      |             | <b>Total</b>     |
|      | <b>WATER</b>   |       |      |             |                  |
| 801  | 6" Ductile Iron Water Pipe and Fittings                            | 28    | LF   | \$ 60.00    | \$ 1,680         |
| 801  | 12" Ductile Iron Water Pipe and Fittings                           | 515   | LF   | \$ 80.00    | \$ 41,200        |
| 802  | 6" Valve and Appurtenances   | 2     | EA   | \$ 800.00   | \$ 1,600         |
| 802  | 12" Valve and Appurtenances  | 2     | EA   | \$ 1,250.00 | \$ 2,500         |
| 805  | 3" Water Service Tap, Transferred                                  | 1     | EA   | \$ 3,000.00 | \$ 3,000         |
| 805  | 6" Water Service Tap, Transferred                                  | 1     | EA   | \$ 4,500.00 | \$ 4,500         |
| 805  | Curb Box   | 2     | EA   | \$ 200.00   | \$ 400           |
| 807  | Valve Box Adjusted to Grade  | 6     | EA   | \$ 450.00   | \$ 2,700         |
| 807  | Columbus Standard Heavy Duty Valve Box                             | 2     | EA   | \$ 400.00   | \$ 800           |
| 808  | Cut and Plug 12" Water Line  | 1     | EA   | \$ 2,000.00 | \$ 2,000         |
| 809  | Fire Hydrant   | 1     | EA   | \$ 3,000.00 | \$ 3,000         |
| 809  | Fire Hydrant, Abandoned  | 2     | EA   | \$ 500.00   | \$ 1,000         |
| 809  | Fire Hydrant, Relocated, As Per Plan                               | 2     | EA   | \$ 1,500.00 | \$ 3,000         |
| SPEC | Survey Coordinates   | LUMP  |      | \$ 2,000.00 | \$ 2,000         |
|      |  |       |      |             | <b>\$ 63,680</b> |
|      | <b>LIGHTING (CITY OF DUBLIN)*</b>                                  |       |      |             |                  |
| 625  | Connector Kit, Type II   | 6     | EA   | \$ 65.00    | \$ 390           |
| 625  | Connector Kit, Type III  | 12    | EA   | \$ 65.00    | \$ 780           |
| 625  | Light Pole, 35'-0", As Per plan                                    | 6     | EA   | \$ 1,500.00 | \$ 9,000         |
| 625  | Light Pole Foundation, 24" x 7' Deep, As Per Plan                  | 6     | EA   | \$ 850.00   | \$ 5,100         |
| 625  | Transformer Base, Type AT-A  | 6     | EA   | \$ 500.00   | \$ 3,000         |
| 625  | Luminaire Removed, As Per Plan                                     | 6     | EA   | \$ 100.00   | \$ 600           |
| 625  | Luminaire Support Removed, As Per Plan                             | 6     | EA   | \$ 250.00   | \$ 1,500         |
| 625  | Luminaire Support Foundation Removed                               | 6     | EA   | \$ 200.00   | \$ 1,200         |
| 625  | No. 4 AWG, 600 Volt Distribution Cable                             | 3228  | FT   | \$ 3.00     | \$ 9,684         |
| 625  | No. 10 AWG, Pole and Bracket Cable                                 | 456   | FT   | \$ 1.00     | \$ 456           |
| 625  | Conduit, 2", 725.051   | 836   | FT   | \$ 5.00     | \$ 4,180         |
| 625  | Luminaire, Misc.: Cree LED Catalog #: ARE-EDG-2M-DA-12-D-UH-BZ-40K | 6     | EA   | \$ 1,900.00 | \$ 11,400        |
| 625  | Trench   | 856   | FT   | \$ 10.00    | \$ 8,560         |
| 625  | Plastic Caution Tape   | 856   | FT   | \$ 1.00     | \$ 856           |
| 625  | Ground Rod   | 6     | EA   | \$ 100.00   | \$ 600           |
| 625  | Lighting, Misc.: Cadweld Connection                                | 6     | EA   | \$ 30.00    | \$ 180           |
|      |  |       |      |             | <b>\$ 57,486</b> |

Sawmill/Hard Intersection Improvements Construction Cost Estimate  
Stantec Consulting Services, Inc.

| Item | Description   | Total | Unit | Unit Cost   | Cost             |
|------|---|-------|------|-------------|------------------|
|      |   |       |      |             | <b>Total</b>     |
|      | <b>LIGHTING (CITY OF COLUMBUS)</b>  |       |      |             |                  |
| 1001 | Pull Box, Medium Duty, 13" X 24" (For Street Crossings) (MIS-004)                     | 4     | EA   | \$ 550.00   | \$ 2,200         |
| 1001 | 2" Conduit in Open Areas (MIS-015)  | 264   | LF   | \$ 5.00     | \$ 1,320         |
| 1001 | 2" Conduit under Concrete Sidewalk (MIS-016)  | 224   | LF   | \$ 8.00     | \$ 1,792         |
| 1001 | Foundations - Reinforced (6") (MIS-022)   | 6     | EA   | \$ 1,000.00 | \$ 6,000         |
| 1001 | Luminaire, 200W HPS, 480V Drop Lens Cobra Style (MIS-032)                             | 6     | EA   | \$ 400.00   | \$ 2,400         |
| 1001 | Aluminum Light Pole with 10' Truss and T-Base (MIS-050)                               | 2     | EA   | \$ 1,700.00 | \$ 3,400         |
| 1001 | 3" Rigid Steel Conduit Jacked-Drilled or Pushed Under Pavement (MIS-063)              | 187   | LF   | \$ 30.00    | \$ 5,610         |
| 1001 | 2" Conduit under Brick Sidewalk (MIS-089)   | 5     | LF   | \$ 8.00     | \$ 40            |
| 1001 | Conductor Safety Policy (MIS-095) (No Pay Item)                                       | -     | -    |             | \$ -             |
| 1001 | Street Light Circuit Ground Unit (Underground System) (MIS-111)                       | 6     | EA   | \$ 160.00   | \$ 960           |
| 1001 | Aluminum Light Pole with 12' Truss and T-Base (MIS-114)                               | 4     | EA   | \$ 1,700.00 | \$ 6,800         |
| 1001 | Guidelines for Inspection and Acceptance (MIS-177) (No Pay Item)                      | -     | -    |             | \$ -             |
| 1001 | Guidelines for Street Lighting Submittal Packs (MIS-188) (No Pay Item)                | -     | -    |             | \$ -             |
| 1001 | Inspection Checklist (MIS-189) (No Pay Item)  | -     | -    |             | \$ -             |
| 1001 | Street Light Circuit - 3 Wire (2-#4-5KV Cables; 1-#8-600V Equipment Ground) (MIS-190) | 780   | LF   | \$ 5.00     | \$ 3,900         |
| 1001 | Pole To Be Wired (3 Wire System) (MIS-191)  | 6     | EA   | \$ 202.00   | \$ 1,212         |
|      |   |       |      |             | <b>\$ 35,634</b> |
|      | <b>TRAFFIC CONTROL</b>  |       |      |             |                  |
| 621  | Raised Pavement Marker Installed  | 201   | EA   | \$ 20.00    | \$ 4,027         |
| 630  | Removal of Ground Mounted Post Support and Disposal                                   | 17    | EA   | \$ 30.00    | \$ 510           |
| 630  | Removal of Ground Mounted Sign and Storage, As Per Plan                               | 14    | EA   | \$ 60.00    | \$ 840           |
| 630  | Removal of Ground Mounted Sign and Reerection   | 7     | EA   | \$ 40.00    | \$ 280           |
| 630  | Sign Support Assembly, Pole Mounted   | 7     | EA   | \$ 65.00    | \$ 455           |
| 630  | Sign, Flat Sheet, Type H  | 214.5 | SF   | \$ 16.00    | \$ 3,432         |
| 630  | Ground Mounted Support, No. 3 Post, Type S, As Per Plan                               | 63.8  | FT   | \$ 10.00    | \$ 638           |
| 630  | Ground Mounted Support, No. 3 Post  | 304.5 | FT   | \$ 7.00     | \$ 2,132         |
| 630  | 2-1/4" Square Anchor Post, As Per Plan  | 6     | EA   | \$ 21.00    | \$ 126           |
| 644* | Lane Line, 4"   | 0.21  | MI   | \$ 1,600.00 | \$ 336           |
| 644  | Lane Line, 5"   | 0.96  | MI   | \$ 1,800.00 | \$ 1,728         |
| 644* | Center Line, 4"   | 0.12  | MI   | \$ 6,500.00 | \$ 780           |
| 644  | Center Line, 5"   | 0.51  | MI   | \$ 7,500.00 | \$ 3,825         |
| 644* | Channelizing Line, 8"   | 1084  | FT   | \$ 1.50     | \$ 1,626         |
| 644  | Channelizing Line, 10"  | 2218  | FT   | \$ 1.75     | \$ 3,882         |
| 644* | Stop Line, 24"  | 62    | FT   | \$ 9.00     | \$ 558           |
| 644  | Stop Line, 20"  | 174   | FT   | \$ 7.00     | \$ 1,218         |
| 644  | Crosswalk Line, 10"   | 793   | FT   | \$ 5.00     | \$ 3,965         |
| 644  | Transverse/Diagonal Line, 20"   | 265   | FT   | \$ 6.00     | \$ 1,590         |
| 644  | Lane Arrow  | 40    | EA   | \$ 100.00   | \$ 4,000         |
| 644  | Word on Pavement, 72"   | 9     | EA   | \$ 110.00   | \$ 990           |
| 644* | Dotted Line, 4"   | 229   | FT   | \$ 1.00     | \$ 229           |
| 644  | Dotted Line, 5"   | 687   | FT   | \$ 1.25     | \$ 859           |
| SPEC | Reboundable Traffic Post (Yellow) Installed   | 11    | EA   | \$ 70.00    | \$ 770           |
|      |   |       |      |             | <b>\$ 38,795</b> |
|      | <b>TRAFFIC SIGNAL</b>   |       |      |             |                  |

Sawmill/Hard Intersection Improvements Construction Cost Estimate  
Stantec Consulting Services, Inc.

| Item | Description   | Total | Unit | Unit Cost    | Cost      |
|------|---|-------|------|--------------|-----------|
|      |   |       |      |              | Total     |
| 625  | Bracket Arm, 30', As Per Plan   | 4     | EA   | \$ 1,400.00  | \$ 5,600  |
| 625  | Conduit, 2" 725.051   | 1157  | FT   | \$ 6.00      | \$ 6,942  |
| 625  | Conduit, 3" 725.051   | 279   | FT   | \$ 8.00      | \$ 2,232  |
| 625  | Conduit, 3", Drilled or Directionally Bored                                       | 44    | FT   | \$ 25.00     | \$ 1,100  |
| 625  | Conduit, Concrete Encased, 2", 725.051  | 119   | FT   | \$ 20.00     | \$ 2,380  |
| 625  | Conduit Bank, As Per Plan   | 148   | FT   | \$ 50.00     | \$ 7,400  |
| 625  | Trench  | 1112  | FT   | \$ 6.00      | \$ 6,672  |
| 625  | Trench In Paved Area, As Per Plan   | 212   | FT   | \$ 25.00     | \$ 5,300  |
| 625  | Pull Box, As Per Plan   | 8     | EA   | \$ 600.00    | \$ 4,800  |
| 625  | Pull Box, 32", As Per Plan  | 3     | EA   | \$ 1,300.00  | \$ 3,900  |
| 625  | Ground Rod, As Per Plan   | 10    | EA   | \$ 175.00    | \$ 1,750  |
| 630  | Sign Hanger Assembly, Span Wire   | 8     | EA   | \$ 180.00    | \$ 1,440  |
| 630  | Signs, As Per Plan  | 25    | SF   | \$ 15.00     | \$ 375    |
| 630  | Sign Flat Sheet, Type H   | 20    | SF   | \$ 16.00     | \$ 320    |
| 630  | Signing, Misc.: Traffic Signal Signs  | 4     | EA   | \$ 100.00    | \$ 400    |
| 632  | Vehicular Signal Head, LED Lamp Unit, 3 Section, 12" Lens, 1-Way, As Per Plan     | 13    | EA   | \$ 750.00    | \$ 9,750  |
| 632  | Vehicular Signal Head, LED Lamp Unit, 5 Section, 12" Lens, 1-Way, As Per Plan     | 3     | EA   | \$ 1,150.00  | \$ 3,450  |
| 632  | Pedestrian Signal Head, As Per Plan   | 8     | EA   | \$ 550.00    | \$ 4,400  |
| 632  | Covering Of Vehicular Signal Head, As Per Plan                                    | 16    | EA   | \$ 25.00     | \$ 400    |
| 632  | Covering Of Pedestrian Signal Head & Pushbutton, As Per Plan                      | 12    | EA   | \$ 25.00     | \$ 300    |
| 632  | Pedestrian Pushbutton, As Per Plan  | 4     | EA   | \$ 250.00    | \$ 1,000  |
| 632  | Detector Loop   | 5     | EA   | \$ 1,100.00  | \$ 5,500  |
| 632  | Messenger Wire, 7-Strand, 0.25-Inch Diameter With Accessories, As Per Plan        | 1594  | FT   | \$ 7.50      | \$ 11,955 |
| 632  | Messenger Wire, 7-Strand, 3/8" Diameter With Accessories                          | 526   | FT   | \$ 7.50      | \$ 3,945  |
| 632  | Tether Wire, with Accessories   | 526   | FT   | \$ 8.50      | \$ 4,471  |
| 632  | Signal Cable, 7 Conductor, No. 14 AWG   | 1050  | FT   | \$ 2.50      | \$ 2,625  |
| 632  | Signal Cable, 9 Conductor, No. 14 AWG   | 1172  | FT   | \$ 3.50      | \$ 4,102  |
| 632  | Strain Pole Foundation, As Per Plan   | 4     | EA   | \$ 2,800.00  | \$ 11,200 |
| 632  | Pedestal Foundation, As Per Plan  | 4     | EA   | \$ 750.00    | \$ 3,000  |
| 632  | Loop Detector Lead-In Cable, IMSA 50-2  | 4711  | FT   | \$ 1.50      | \$ 7,067  |
| 632  | Power Cable, 2 Conductor, CU, No. 8 AWG, As Per Plan                              | 210   | FT   | \$ 3.75      | \$ 788    |
| 632  | Service Cable, 2 Conductor, No. 6 AWG   | 50    | FT   | \$ 3.75      | \$ 188    |
| 632  | Power Service   | 1     | EA   | \$ 1,400.00  | \$ 1,400  |
| 632  | Conduit Riser, 3" Diameter  | 1     | EA   | \$ 800.00    | \$ 800    |
| 632  | Conduit Riser, 3" Diameter, As Per Plan   | 1     | EA   | \$ 800.00    | \$ 800    |
| 632  | Strain Pole, Type TC-81.10, Anchor Base, Design 10, 38', As Per Plan              | 4     | EA   | \$ 8,000.00  | \$ 32,000 |
| 632  | Wood Pole   | 1     | EA   | \$ 1,000.00  | \$ 1,000  |
| 632  | Pedestal, 10.7', Transformer Base, As Per Plan                                    | 4     | EA   | \$ 1,000.00  | \$ 4,000  |
| 632  | Removal Of Traffic Signal Installation, As Per Plan                               | 1     | EA   | \$ 2,200.00  | \$ 2,200  |
| 632  | Relocation of Interconnect Cable, Fiber Optic, As Per Plan                        | 1587  | FT   | \$ 3.10      | \$ 4,920  |
| 632  | Signalization, Misc.: Patch Panel, 200' Patch Panel Drop Cable                    | 1     | EA   | \$ 250.00    | \$ 250    |
| 633  | Controller Unit, TS2/A2 w/ Cabinet, 8 PH, P44, Base Cabinet Assembly, As Per Plan | 1     | EA   | \$ 15,000.00 | \$ 15,000 |
| 633  | Concrete For Cabinet Foundation, As Per Plan                                      | 1.85  | CY   | \$ 755.00    | \$ 1,397  |
| 633  | Controller Work Pad, As Per Plan  | 12    | SF   | \$ 21.00     | \$ 252    |
| 633  | Video Detection System, 4 Image Sensors, As Per Plan                              | 1     | EA   | \$ 15,000.00 | \$ 15,000 |
| 633  | Controller Item, Misc.: Layer 2 Ethernet Switch                                   | 1     | EA   | \$ 250.00    | \$ 250    |
| 633  | Controller Item, Misc.: Fiber Optic Ethernet Transceiver                          | 1     | EA   | \$ 250.00    | \$ 250    |
| 804  | Fan-Out Kit, 12 Fiber   | 1     | EA   | \$ 25.00     | \$ 25     |

Sawmill/Hard Intersection Improvements Construction Cost Estimate  
Stantec Consulting Services, Inc.

| Item | Description  | Total       | Unit | Unit Cost   | Cost              |
|------|--|-------------|------|-------------|-------------------|
|      |  |             |      |             | <b>Total</b>      |
| 804  | Slack Installation   | 2           | EA   | \$ 200.00   | \$ 400            |
| 804  | Fiber Optic Cable, Misc.: Relocate Splice Enclosure                          | 1           | EA   | \$ 730.00   | \$ 730            |
|      |  |             |      |             | <b>\$ 199,924</b> |
|      | <b>LANDSCAPING</b>   |             |      |             |                   |
| 661* | Deciduous Tree, 2.5" Caliper, Green Vase, As Per Plan                        | 17          | EA   | \$ 300.00   | \$ 5,100          |
| SPEC | Water and Maintain Trees and Seed for a Period of One Year (Warranty Period) | <i>LUMP</i> |      | \$ 600.00   | \$ 600            |
|      |  |             |      |             | <b>\$ 5,700</b>   |
|      | <b>STRUCTURE</b>   |             |      |             |                   |
| 202  | Portions of Structure Removed, As Per Plan                                   | <i>LUMP</i> |      | \$ 5,000.00 | \$ 5,000          |
| 503  | Unclassified Excavation, As Per Plan   | <i>LUMP</i> |      | \$ 5,000.00 | \$ 5,000          |
| 511  | Class C Concrete, As Per Plan  | 6           | CY   | \$ 800.00   | \$ 4,800          |
| 516  | 1" Preformed Expansion Joint Filler  | 16          | SF   | \$ 15.00    | \$ 240            |
| 518  | Porous Backfill with Filter Fabric, As Per Plan                              | 6           | CY   | \$ 70.00    | \$ 420            |
| 601  | Rock Channel Protection, Type C with Fabric Filter                           | 67          | CY   | \$ 60.00    | \$ 4,020          |
| 603  | 12' x 4' Conduit, Type A, 706.05   | 44          | FT   | \$ 750.00   | \$ 33,000         |
| 901  | 48" Pipe, with Type 1 Bedding, Class II, 706.02                              | 34          | LF   | \$ 234.00   | \$ 7,956          |
| SPEC | Stone Veneer   | 1266        | SF   | \$ 25.00    | \$ 31,650         |
| SPEC | Polyurethane Caulking for Stone Veneer                                       | 90          | LF   | \$ 5.00     | \$ 450            |
| SPEC | Precast Wingwalls  | 440         | SF   | \$ 30.00    | \$ 13,200         |
| SPEC | Precast Headwalls  | 246         | SF   | \$ 30.00    | \$ 7,380          |
|      |  |             |      |             | <b>\$ 113,116</b> |

Sawmill/Hard Intersection Improvements Construction Cost Estimate  
Stantec Consulting Services, Inc.

| Item | Description  | Total | Unit    | Unit Cost   | Cost             |
|------|--|-------|---------|-------------|------------------|
|      |  |       |         |             | <b>Total</b>     |
|      | <b>MAINTENANCE OF TRAFFIC</b>                          |       |         |             |                  |
| 410  | Traffic Compacted Surface, Type A or B                 | 265   | CY      | \$ 45.00    | \$ 11,925        |
| 614  | Law Enforcement Officer with Patrol Car                | 600   | HOUR    | \$ 60.00    | \$ 36,000        |
| 614  | Replacement Drum                                       | 50    | EA      | \$ 50.00    | \$ 2,500         |
| 614  | Work Zone Lane Line, Class I, 642 Paint                | 0.60  | MI      | \$ 600.00   | \$ 358           |
| 614  | Work Zone Lane Line, Class II, 642 Paint               | 1.17  | MI      | \$ 600.00   | \$ 702           |
| 614  | Work Zone Center Line, Class I, 642 Paint              | 1.28  | MI      | \$ 1,200.00 | \$ 1,532         |
| 614  | Work Zone Center Line, Class II, 642 Paint             | 0.63  | MI      | \$ 400.00   | \$ 252           |
| 614  | Work Zone Channelizing Line, Class I, 642 Paint        | 1643  | FT      | \$ 1.00     | \$ 1,643         |
| 614  | Work Zone Channelizing Line, Class II, 642 Paint       | 3302  | FT      | \$ 1.00     | \$ 3,302         |
| 614  | Work Zone Edgeline, Class I, 642 Paint                 | 0.67  | MI      | \$ 850.00   | \$ 573           |
| 614  | Work Zone Stop Line, Class I, 642 Paint                | 134   | FT      | \$ 3.00     | \$ 402           |
| 614  | Work Zone Stop Line, Class III, 642 Paint              | 236   | FT      | \$ 3.00     | \$ 708           |
| 614  | Work Zone Crosswalk Line, Class III, 642 Paint         | 793   | FT      | \$ 2.00     | \$ 1,586         |
| 614  | Work Zone Dotted Line, Class I, 642 Paint              | 1436  | FT      | \$ 1.00     | \$ 1,436         |
| 614  | Work Zone Transverse/Diagonal Line, Class I, 642 Paint | 420   | FT      | \$ 2.00     | \$ 840           |
| 614  | Work Zone Arrow, Class I, 642 Paint                    | 21    | EA      | \$ 60.00    | \$ 1,260         |
| 614  | Work Zone Word, Class I, 642 Paint                     | 11    | EA      | \$ 90.00    | \$ 990           |
| 614  | Portable Changeable Message Sign, As Per Plan          | 6     | S-Month | \$ 1,250.00 | \$ 7,500         |
| 615  | Pavement for Maintaining Traffic, Class A              | 109   | SY      | \$ 50.00    | \$ 5,450         |
| 616  | Water  | 30    | M GAL   | \$ 25.00    | \$ 750           |
|      |  |       |         |             | <b>\$ 79,709</b> |

Project Subtotal: \$ 1,692,840  
Contingency: 10% \$ 169,284

**\$ 1,862,124**

\* Denotes ODOT Construction and Material Specifications. Statements of Probable Construction and Right-of-Way Costs and Detailed Cost Estimates prepared by the Engineer represent his best judgment as a design professional familiar with the construction industry. It is recognized, however, that the Engineer has no control over the Contractor's methods of determining bid prices, or over competitive bidding or market conditions. Accordingly, the Engineer cannot and does not guarantee that bids or prices will not vary from any Statement of Probable Construction Cost or other cost estimate prepared by him.

**EXHIBIT D - EXECUTED CONSTRUCTION CONTRACT,  
INCORPORATED BY REFERENCE AS IF ATTACHED**