

DATE: JANUARY 22, 2008

CLERK: MARY BETH BAILEY

MASSILLON CITY COUNCIL
CITY OF MASSILLON, OHIO
GLENN GAMBER, PRESIDENT

COUNCIL CHAMBERS

LEGISLATIVE DEPARTMENT

ORDINANCE NO. 11 - 2008

BY: STREETS, HIGHWAYS, TRAFFIC & SAFETY COMMITTEE

TITLE: AN ORDINANCE authorizing the Director of Public Service and Safety of the City of Massillon, Ohio, to sign a proposal with URS for professional engineering services for the design of certain intersections in the City of Massillon, Ohio, and declaring an emergency.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF MASSILLON, STATE OF OHIO, THAT:

Section 1:

The Council of the City of Massillon, Ohio, hereby determines it to be necessary in the public health, safety and welfare to sign a proposal with URS for professional engineering services for the design of certain intersections in the City of Massillon, Ohio.

Section 2:

The Director of Public Service and Safety of the City of Massillon, Ohio, is hereby authorized and directed to sign a proposal with URS for professional engineering services for the following intersections in the City of Massillon, Ohio:

- a). SR 172 (Lincoln Way East)/27th Street/Jackson Avenue - \$42,684.00
- b). SR 241 (Wales Road)/Lake Avenue - \$36,932.00
- c). SR 241 (Erie Street)/Tremont Avenue - \$29,607.00
- d). SR 241 (Wales Road)/Hankins Road - \$28,527.00

Section 3:

This Ordinance is hereby declared to be an emergency measure necessary for the preservation of the health, safety and welfare of the community and for the additional reason that it is necessary that the proposal with URS is signed so the work may begin for the design of those intersections in the city. Provided it receives the affirmative vote of two-thirds of the elected members to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor. Otherwise, it shall take effect and be in force from and after the earliest period allowed by law.

PASSED IN COUNCIL THIS 4th DAY OF February, 2008

ATTEST:

Mary Beth Bailey
MARY BETH BAILEY, CLERK OF COUNCIL

Glenn Gamber
GLENN E. GAMBER, PRESIDENT

APPROVED:

February 5, 2008

Francis H. Cicchinelli, Jr.
FRANCIS H. CICCHINELLI, JR., MAYOR

I hereby certify that the foregoing ordinance is a true copy of the original, as passed by the Council of the City of Massillon, Ohio, and approved as noted thereon:

Mary Beth Bailey
Clerk of Council

Date

2/4/08

Funding sources are as follows:

- 1) **SR 241 (Erie Street) and Tremont Avenue** – ODOT approved grant – This project has an estimated cost of \$194,000.00 and the grant awarded from ODOT is in the amount of \$187,950.00 leaving the City responsible for \$6,050.00 based on the estimate.
- 2) **SR 172 (Lincoln Way East) and 27th Street/Jackson Avenue** - ODOT approved grant – This project has an estimated cost of \$257,000.00 and the grant awarded from ODOT is in the amount of \$243,500.00 leaving the City responsible for \$13,500.00 based on the estimate.
- 3) **SR 241(Wales Road) and Lake Avenue; SR 241 (Wales Road) & Hankins Road** – SCATS approved grant in the amount of \$1,500,000.00 with an 80/20 split. The City being responsible for the 20%.



November 29, 2007

Mr. Keith A. Dylewski, PE
City Engineer
Municipal Government Annex
151 Lincoln Way East
Massillon, Ohio 44646

**Subject: Proposal for Professional Engineering Services
STA-241-8.04/10.41
Traffic Signal Design**

Dear Mr. Dylewski:

URS Corporation – Ohio (URS) is pleased to submit this technical proposal for the subject project to the City of Massillon (Client). This proposal is based upon your request dated April 25, 2007, and our meeting of May 9, 2007, and includes the design of four (4) traffic signals. The Scope of Services presented below represents our understanding of your needs and outlines our approach to this important project, followed by a proposed fee and schedule.

SCOPE OF SERVICES

The following signalized intersections are included in the project area:

- SR 241 (Wales Road)/Lake Avenue;
- SR 241 (Wales Road)/Hankins Road;
- SR 241 (Erie Street)/Tremont Avenue; and
- SR 172 (Lincoln Way East)/27th Street/Jackson Avenue.

URS will prepare a stand-alone traffic signal plan for each intersection which will be suitable for use in bidding and construction. The plans will use Ohio Department of Transportation (ODOT) design standards supplemented with City standards and preferences. The proposal has been organized such that the City can authorize individual tasks for each intersection, as needed. The following items will be conducted with regard to this project:

Task 1. Topographic Survey & Basemapping – Topographical survey will be conducted at each intersection for use in developing mapping for the design. The survey may be supplemented with Stark County GIS/ aerial photography. OUPS will be contacted prior to the survey to mark utilities in the area. A field review will be made to identify any sight obstructions or other items to be taken into consideration during design.

Task 2. Establish Existing Right of Way – The following task descriptions are intended to detail the various tasks necessary to adequately research, establish, and map the existing right of way limits in the field at various intersections. This scope of services does not include any field staking of the existing right of way. The following tasks will be performed at each intersection as may be authorized by the City.

Research will be performed to investigate and obtain copies of all adjoining property owner deeds, survey plats (if available) and any recorded centerline of right of way establishment plats for the project intersections. This research will be performed on the Stark County Recorder's web site and at the Stark County courthouse, if needed. In addition, an effort will be made to visit County and State agencies in order to obtain copies of previous road improvement projects that may affect the project intersections.

URS will recover existing property line and centerline monumentation that will be necessary to establish key alignment points of the existing centerline and right of way limits.

Coordinate geometry calculations will be performed in order to verify existing monumentation with record data. Existing centerline and right of way limits will be shown on the improvement plans.

Task 3. Environmental Documentation – The following sections provide detail on the tasks necessary for the preparation of a Categorical Exclusion (CE) Level 1 environmental clearance document. The purpose of the environmental analysis and documentation will be to evaluate and document all relevant considerations necessary to satisfy environmental requirements of ODOT and FHWA (including applicable requirements of other state and local agencies) and to secure environmental clearance for the project. Based on URS' knowledge of the project area and assumptions regarding the proposed intersection improvements, a scope of services is outlined below which we believe will achieve the goals stated above. Assumptions specific to each area of analysis are detailed below.

- a. **Assumptions** – This scope of services is based on assumptions made and confirmed through email correspondence with Mr. Brian Peck, District 4, ODOT. These assumptions include:
- No ecological resources (wetlands, streams, endangered & threatened species, etc.) will be impacted by this project.
 - Since right of way will be required for the project, and Environmental Site Assessment (ESA) Site Screening will be required.
 - No cultural resources investigations (historical architecture or archaeology) will be required.
 - No noise modeling will be required.
 - There will be no effects on sites that may be considered Section 4(f) resources.



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- There will be no public meetings held during the course of this project. Public involvements will be handled by a letter to affected residents/businesses from the City, as well as a press release which explains the project. URS will assist the City in drafting these two items. Copies will be included in the CE document.
- The project will not involve any significant level of public opposition or controversy.
- The Environmental Document required is a CE Level 1.

Should any work be required beyond the level of work described in the assumptions above, that work will be considered out-of-scope. URS will provide a proposal for such out-of-scope work when the need for it is recognized.

- b. Hazardous Waste Site Screening and Phase I Environmental Site Assessment (ESA) – The tasks discussed below are necessary to prepare a Screening and subsequent Phase I Environmental Site Assessment document for the SR 172 (Lincoln Way East)/27th Street/Jackson Avenue intersection only. In absence of these reports, this proposal does not include a scope of work for a potential Phase II investigation at the location. This proposal follows the guidelines provided by ODOT's environmental evaluation process as detailed in their 1999 guidance document entitled *Hazardous Waste: Site Screening and Phase I Environmental Site Assessment*.

The Environmental Study will be conducted in two (2) parts: the Site Screening and a subsequent Phase I Investigation. The Site Screening will review all properties identified by right of way acquisition for possible involvement with hazardous waste. Areas that have the potential for some contamination will be investigated further in the form of a Phase I. The Phase I will include properties that are slated for easements and/or acquisitions.

This proposal assumes the Site Screening and the Phase I Site Assessment will be conducted concurrently and at one property.

Task 1: Site Screening

Site Visits – A site walkover will be conducted to visually inspect the individual parcels for the purpose of determining adjacent areas of potential or apparent contamination. Building will not be entered and no interviews are planned for this portion of the work. The walkover will be visual and notes of the walkover will be recorded on field maps carried by the inspector.

Historical Review – Sanborn, Hopkins or equivalent historic maps and/or aerial photographs will be reviews for information detailing past industrial and commercial users of the properties within the project location. Available maps/aerial photographs will be reviewed to determine land use or industrial to residential changes and to identify suspect locations.



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Regulatory Records Database Review – A database listing from U.S. and Ohio Environmental Protection Agency (EPA) files will be requested for the project. The database will also be reviewed to determine the relative proximity of any spills, landfills, uncontrolled sites, RCRA sites, and Superfund sites with 0.5 miles of the alignment.

Site Screening Report – A Judgmental Determination of a Phase I site will be made based on the information determined in the Site Screening. This will be based on information tabulated in Preliminary Site Screening Checklists that will be created for the Site Screening portion of the project. Based on the checklists, a comprehensive property documentation file will be created for any potentially contaminated property to be acquired.

Task 2: Phase I Environmental Site Assessment

Interviews – Persons located at the site in addition to persons determined to have knowledge of spills, releases or chemical management will be interviewed. If deemed appropriate, adjacent facilities/residents will also be interviewed for the same purpose.

A site walkover will also be conducted to visually inspect the project area for the purpose of determining areas of potential or apparent contamination. The walkover will be conducted by a URS employee who has met OSHA 40-hour training in accordance with 29 CFR 1910.120 in addition to actual site assessment experience. The detailed site walkover will cover only suspect properties recommended for Phase I Investigation. In addition, photographs will be taken in the field to document conditions.

Additional Regulatory Review – Representatives from State and local regulatory agencies will be contacted and interviewed to obtain information regarding past zoning of parcels within the project area. Some of the agencies with files that will be requested and reviewed include:

- Fire Department/Emergency Management Agency – These two agencies will be solicited for the purpose of determining past incidents regarding releases of hazardous materials. Local fire department inspection records will also be reviewed for the purpose of determining the identity and disposition of regulated materials for a given entity. These agencies may also provide useful information regarding underground storage tanks (USTs).
- The Office of the State Fire Marshall will be contacted for information detailing the location and status of registered USTs within the right of way, if available; information will also be gathered regarding recently closed UST systems and post closure reports.
- Ohio Environmental Protection Agency (OEPA) will be contacted for information detailing spills, violations and other potentially contaminating activities on or near the site.



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Report Preparation – A Phase I Report will be prepared and will contain recommendations for the next phase of work. The report will include all appropriate documentation used in conducting all tasks in the Phase I study and will include parcel documentation files for the parcel. The reports will address the study methodology, past and present land uses and their relationship to possible contaminants within the project, and a comprehensive listing of potentially contaminated sites that may require Phase II investigations. The report will also include a section detailing the geologic profile of the area. A geological profile of the area will be conducted. By gathering available information about local geology, significant items to be considered are depth to bedrock, depth to groundwater, and hydrologic conditions that may have an impact on proposed Phase II activities.

- c. Level 1 Categorical Exclusion Document – Environmental documentation consists of the preparation of the documentation necessary to receive NEPA clearance. Based on our knowledge of the project, it is assumed a Categorical Exclusion (CE) Level 1 will fulfill the environmental documentation requirements. The current ODOT Environmental Screening/CE-1 For November 1, 2003, will be used for environmental documentation. FHWA and ODOT regulations, guidelines and advisory reports, publications and papers will be used in preparing the environmental assessment documents and supporting environmental reports.

At this time, no major public controversy is anticipated. The project does involve minor right of way takes and potential for minor hazardous materials impacts. Therefore, since minor environmental impacts are anticipated, a Level 1 CE has been assumed. A higher level CE may be necessary based on the determined project impacts. This proposal assumes the Purpose and Need section will be prepared separately by URS for review by the City, ODOT, and any other applicable agencies for concurrence. Prior review and approval of the Purpose and Need and Alternatives discussion is proposed to facilitate the NEPA approval process. These sections of the NEPA documentation can be reviewed while the assessment of proposed project impacts is continuing. Five (5) draft copies of the CE will be prepared. One (1) will be submitted to the City, two (2) will be submitted to ODOT D-4, and two (2) will be retained by URS. Once comments on the draft are addressed, five (5) final copies of the CE will be prepared with the same distribution.

The proposal has been organized such that the primary work to prepare a CE document will be performed for the SR 172 (Lincoln Way East)/27th Street/Jackson Avenue and the SR 241 (Wales Road)/Lake Avenue intersections as needed. If it is determined that environmental clearance is needed at the SR 241 (Erie Street)/Tremont Avenue intersection, the additional work necessary will be performed as outlined in the spreadsheet and included in the SR 172 (Lincoln Way East)/27th Street/Jackson Avenue CE document. Similarly, if environmental clearance is required at the SR 241 (Wales Road)/Hankins Road intersection, the additional



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work necessary will be completed according to the proposal and included in the CE document for SR 241 (Wales Road)/Lake Avenue.

- d. Participate in Project Meetings – URS will attend and participate in periodic project meetings as necessary. It is assumed that progress meetings will be held on a monthly or near-monthly basis. URS will be responsible for documenting meetings by composing/distributing meeting minutes. It is assumed that eight (8) monthly meetings will be held for the project.

Task 4. Subsurface Utility Investigation – Once survey is complete, a preliminary signal pole layout will be completed at each intersection. If there is a concern regarding the location of underground utilities in the vicinity of the proposed pole locations, a subsurface utility engineer (SUE) may be hired to perform test holes. If authorized, the SUE subcontractor will perform Level A subsurface utility investigation on a Per Test Hole basis. The purpose of this work is to field locate the exact location of utilities in the vicinity of the signal support foundations. The SUE fee is based on two (2) test holes per intersection. URS will coordinate with the SUE to integrate the investigation into the project mapping.

Task 5. Preliminary Design - A separate and complete set of traffic signal plans will be prepared for each intersection (4 intersections total). The preliminary design will be equivalent to Stage 2 plans. The signal plans will be drawn in a 1"=20' scale and consist of the following elements:

- a. Title sheet;
- b. General notes;
- c. Plan sheet showing horizontal layout;
- d. Timing and phasing diagram;
- e. Wiring diagram;
- f. Pole elevations and details;
- g. Interconnect Plan.

The plans will include mast arm signal supports, video detection, and hardwire interconnect to the existing signal systems. At the Erie Street/Tremont Avenue intersection lighting and connection to the hardwire emergency system will be included. During the field investigation particular attention will be paid to the condition of the existing curb ramps. Where needed, new curb ramps will be included in the plans.

At the time the preliminary signal pole layout is complete, a field meeting will be scheduled with City personnel to review the pole and controller locations. This meeting will ensure that there are no conflicts with overhead utilities or trees, and that the locations are acceptable to the City.

URS will coordinate with the City while developing the signal plans for the two intersections on Wales Road. Following the basemapping and establishment of existing right of way, the



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preliminary widening plans for Wales Road will be reviewed to determine the ultimate mast arm length and pole size for the signal poles at those locations. It is the intention to provide poles that will be adequate for the future widened roadway. At this time a determination will be made as to right of way requirements and appropriate pole locations for both the existing pavement width and the future conditions.

Task 6. Final Design – Following review of the preliminary plans by the City and ODOT, any comments will be incorporated to Stage 3 plans. At this point, quantities will be calculated and included in subsummaries and a general summary. The Stage 3 plans will be forwarded to the City for review prior to Final plans being prepared.

Task 7. Preparation of Proposed Right of Way Plans – It is our understanding that additional right of way may be necessary at one or more intersections. If authorized, URS will prepare right of way plans. The following scope is intended to detail the various tasks that will be necessary to prepare a Right of Way plan and legal description for ownerships at each intersection that may require additional Right of Way for the proposed signal pole locations. It is intended that a one page Right of Way plat and legal description will be required at each intersection that will need additional Right of Way. Additional parcels and legals that may be needed at this same intersection will be added to this plat, as directed by the City. A maximum of four (4) parcels can be shown per intersection in this format. **For purposes of this proposal, the fee for this task assumes that right of way will be needed in all four (4) quadrants of each intersection. Once the existing right of way is established and right of way requirements are established, if it is determined that fewer takes are needed, this fee will be renegotiated.** Ownerships affected beyond four (4) will require modification to this contract and will be scoped as a separate task.

- a. **Research** – Research will be performed to research and obtain copies of the current property owner's deeds and survey plats for the parcels identified as needing additional Right of Way. Only the current deed of record will be researched, as URS assumes that a complete Title Report will be completed by others during acquisition activities.
- b. **Coordination with Survey Field Crews** – URS will recover additional existing property line monumentation that will be necessary to establish the owner's boundary line as these lines will relate to the proposed Right of Way acquisition. An effort will be made to recover any side line or rear pins as noted on record deeds and plats. Each parcel will be tied to the State Plane Coordinates, and if applicable, tied to the Stark County control points.
- c. **Calculations** – Coordinate geometry calculations will be performed in order to verify existing monumentation with record data. Property lines will be established by a Professional Surveyor based on record and field evidence.



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- d. One Page Right of Way Plan Format – URS will prepare a one page Right of Way plan on 22" x 34" bond for each intersection that the City determines additional Right of Way will be required. The plat will show the limits of the existing centerline of Right of Way, the existing Right of Way, the existing property lines of the affected owner, and the Proposed Right of Way limits. The plat will also note the owner's name, deed reference, Auditor's Parcel Number, record area, and area to be acquired. Up to four (4) ownerships, one per corner, can be shown in this format. The City will direct URS as to fee or easement acquisition for the additional Right of Way required.
- e. Legal Description – A legal description will be prepared to current Stark County Conveyance Standards for each additional Right of Way parcel. The City will direct URS as to Warranty Deed or Highway Easement format.
- f. Final Staking – Coordinates and stake-out routines will be generated in order to physically stake the proposed Right of Way limits, after acquisition, and at the direction of the City. The Proposed Right of Way limits will be pinned with 5/8" diameter rebar with a URS Identifications cap, or stake using other suitable monuments as field conditions may dictate, per ORC 4733 – Minimum Standards for Boundary Surveys in the State of Ohio.

Task 8. Centerline Monumentation – URS will set reference tie points at each existing centerline of right of way intersection in order for the contractor to place one monument box assembly during construction. The reference tie points will be detailed on the construction plan. Upon notification by the City, URS will return to place a 3/4 inch diameter rebar in the monument box and notify the City, in writing, upon completion. Coordinates of the rebar, tied to the Stark County control system, will be provided to the City with the notification letter.

Task 9. Estimate of Probable Construction Costs – An estimate of probable construction costs will be prepared during the development of Stage 3 plans. The estimate will be based on ODOT's Summary of Contracts Awarded using the Estimator software program.

PROJECT DELIVERABLES

The project deliverables for this project will include the following:

1. Categorical Exclusion Document;
2. Preliminary Right of Way Plans;
3. Final Right of Way Plans;
4. Legal Descriptions;
5. Stage 2 Plans;
6. Stage 3 Plans;
7. Final Plans; and



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8. Engineer's Estimate.

Copies of the plans will be provided to the utility companies at all stages of plan development. Two full-size sets of plans will be provided to the City at each stage, along with one mylar copy of the final plans. At Stage 2, ODOT will be provided with a set of plans for review, as required by the LPA process.

COMPENSATION

A separate fee has been developed for each intersection, as detailed on the enclosed spreadsheets. URS proposes the following Cost Plus Fees to complete the Scope of Services as outlined above for each intersection.

1. SR 172 (Lincoln Way East)/27th Street/Jackson Avenue – \$42,684
2. SR 241 (Erie Street)/Tremont Avenue – \$29,607
3. SR 241 (Wales Road)/Lake Avenue – \$36,932
4. SR 241 (Wales Road)/Hankins Road – \$28,527

Individual intersections may be authorized according to the total fee at each location, or by authorizing specific line items within the total fee. The total cost plus fee is payable upon completion of the plans. URS will submit invoices based on actual hours (with a 2.7 multiplier) plus expenses representing work completed as of the invoice period.

SCHEDULE

For each intersection, upon authorization to proceed, URS will begin work on the project. Stage 2 plans will be provided to your office within forty-five (45) calendar days. Stage 3 plans will be provided within thirty (30) calendar days following receipt of Stage 2 comments from the City and ODOT. The final plans will be submitted within ten (10) days of receipt of any comments on the Stage 3 plans. It is our understanding that separate authorization will be given for specific tasks for each intersection, although intersections and tasks may be authorized concurrently.

CONCLUSION

This Proposal is based on our understanding of the Scope of Services to date and the responsibilities of URS. If the Scope of Services for this Project is altered, this Contract shall be adjusted accordingly to the mutual satisfaction of both the City of Massillon and URS.

The costs included in this Proposal are valid for ninety (90) days from the date of submittal. If the Proposal is accepted after said period, URS reserves the right to review and retain or modify the figures stated herein in order to appropriately reflect changing costs and salaries and similar economic considerations.



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We welcome this opportunity to assist you with this matter and look forward to working with you on this important project. Please feel free to call with any questions you may have.

Sincerely,

URS Corporation - Ohio

A handwritten signature in black ink, appearing to read 'Scott Buchanan'.

Scott Buchanan, P.E.
Vice President

KPW:tk
File

FEE SCHEDULE
STA-241-8.04/10.41
SIR 172 Lincoln Way East/27th Street/Jackson Avenue
City of Massillon

TASK	PM / SENIOR TRAFFIC ENGINEER	JAW MANAGER	SURVEY MANAGER	SENIOR DESIGNER / ENV. SCI.	TRAFFIC ENGINEER	CADD TECHNICIAN / GEOLOGIST	CLERICAL	2 MAN SURVEY CREW	TOTAL DIRECT LABOR	LABOR x MULTIPLIER	SUBCON. SUBTANTS	DIRECT COSTS	TOTAL FEE
1. Topographic Survey & Base Mapping													
Establish State Plane Coordinates	\$41.00	\$38.50	\$35.00	\$33.00	\$35.00	\$20.00	\$20.00	\$45.00	\$1,391.5	2.7		\$3,758.25	\$5,149.75
Topographic Survey			4					2	\$90.00	2.7		\$243.00	\$243.00
Base Map Development					2	12		6	\$410.00	2.7		\$1,107.00	\$1,107.00
Alignment Stationing					2	2		2	\$280.00	2.7		\$756.00	\$756.00
Subtotal	0	0	4	0	4	14	0	8	\$880.00	2.7		\$2,376.00	\$2,376.00
2. Establish Existing Right of Way													
Research, Correlation, Calculations		8		12		6			\$44.00	2.7		\$118.80	\$118.80
Subtotal	0	8	0	12	0	6	0	0	\$44.00	2.7		\$118.80	\$118.80
3. Environmental Documentation													
Site Screening and Phase I ESA													
Site Visit	1					6			\$207.00	2.7		\$558.90	\$558.90
Historical Review	1					6			\$107.00	2.7		\$288.90	\$288.90
Regulatory Records Database Review	1					6			\$107.00	2.7		\$288.90	\$288.90
Site Screening Report	1			3		5			\$432.00	2.7		\$1,166.40	\$1,166.40
Interviews	1					3			\$127.00	2.7		\$342.90	\$342.90
Site Walkover	1					6			\$235.00	2.7		\$634.50	\$634.50
Additional Regulatory Review	1					2			\$67.00	2.7		\$180.90	\$180.90
Report Preparation	1			2		5			\$277.00	2.7		\$748.11	\$748.11
Conceptual Exclusion													
Purpose and Need	14			3					\$763.00	2.7		\$2,060.11	\$2,060.11
OOOT Draft CE	30			2					\$1,735.00	2.7		\$4,684.50	\$4,684.50
Final CE	8			2					\$588.00	2.7		\$1,583.16	\$1,583.16
Project Meetings	8			8					\$656.00	2.7		\$1,771.12	\$1,771.12
Subtotal	68	0	0	21	0	33	25	0	\$5,091.00	2.7		\$13,746.27	\$13,746.27
4. Subsurface Utility Investigation													
Site Visit (based on 2 holes)									\$94.00	2.7		\$253.80	\$253.80
Subtotal	2	0	0	0	0	0	0	0	\$94.00	2.7		\$253.80	\$253.80
5. Preliminary Design (Stage 2)													
This Street													
Survey Notes (2)						2			\$40.00	2.7		\$108.00	\$108.00
Final Survey (2)						4			\$140.00	2.7		\$378.00	\$378.00
Final Survey Detail (1)						5			\$150.00	2.7		\$405.00	\$405.00
Signal Layout Detail (1)						2			\$100.00	2.7		\$270.00	\$270.00
Intersected Plan						4			\$150.00	2.7		\$405.00	\$405.00
Thruway Phasing (1)						2			\$130.00	2.7		\$351.00	\$351.00
Coordination Timing (1)						1			\$50.00	2.7		\$135.00	\$135.00
Wire Diagram (1)						2			\$70.00	2.7		\$189.00	\$189.00
Pole Chart (1)						1			\$110.00	2.7		\$297.00	\$297.00
Utility Chart (1)						1			\$110.00	2.7		\$297.00	\$297.00
Drainage Chart (1)						1			\$60.00	2.7		\$162.00	\$162.00
Subsurface Utility Meeting						1			\$188.00	2.7		\$508.56	\$508.56
CADD	4			4		1			\$541.00	2.7		\$1,460.73	\$1,460.73
Subtotal	14	0	0	15	0	13	0	0	\$1,924.00	2.7		\$5,194.68	\$5,194.68
6. Final Design (Stage 3 & Final Plans)													
General Notes (2)						2			\$120.00	2.7		\$324.00	\$324.00
Final Survey (2)						4			\$160.00	2.7		\$428.00	\$428.00
Quantity (1)						4			\$180.00	2.7		\$486.00	\$486.00
Develop Final Plans	1			2		4			\$217.00	2.7		\$585.90	\$585.90
State Review Meeting	4			8		2			\$188.00	2.7		\$508.56	\$508.56
CADD	4			8		3			\$448.00	2.7		\$1,209.36	\$1,209.36
Subtotal	9	0	0	10	0	18	0	0	\$1,333.00	2.7		\$3,599.11	\$3,599.11
7. Preparation of Proposed Right of Way Plans (All 4 Corners)													
Research, Plan, Legal Description, Calculations, Field Staking		39		42		18			\$3,274.00	2.7		\$8,839.78	\$8,839.78
Subtotal	0	39	0	42	0	18	0	0	\$3,274.00	2.7		\$8,839.78	\$8,839.78
8. General Monumentation													
Set Backs			1						\$170.00	2.7		\$459.00	\$459.00
Subtotal	0	0	1	0	0	0	0	0	\$170.00	2.7		\$459.00	\$459.00
9. Estimate of Probable Construction Costs													
Cost Estimate	2	4	0	0	4	0	0	0	\$346.00	2.7		\$934.62	\$934.62
Subtotal	2	4	0	0	4	0	0	0	\$346.00	2.7		\$934.62	\$934.62
Project Totals	53	50	5	100	47	92	25	14	\$13,921.00	2.7		\$38,046.57	\$42,664.57

FEE SCHEDULE
STA-241-8.04/10.41
SR 241 (Erie Street)/Tremont Avenue
City of Massillon

TASK	PM / SENIOR TRAFFIC ENGINEER	R/W MANAGER	SURVEY MANAGER	SENIOR DESIGNER / ENV. SCI.	TRAFFIC ENGINEER	CADD TECHNICIAN / GEOLOGIST	CLERICAL	2 MAN SURVEY CREW	TOTAL DIRECT LABOR	LABOR x MULTIPLIER	SUBCON-SUBLTANTS	DIRECT COSTS	TOTAL FEE
SR 241 (Erie Street)/Tremont Avenue													
1. Topographic Survey & Basemap													
Establish State Plane Coordinates								2	\$ 90	\$ 243		\$ 243	
Topographic Survey			4		2	12		6	\$ 410	\$ 1,107		\$ 50	\$ 1,157
Basemap Development					2	2			\$ 290	\$ 783		\$ 50	\$ 783
Alignment/Staking					2	2			\$ 90	\$ 243		\$ 50	\$ 243
Subtotal	0	0	4	0	4	14	0	8	\$ 880	\$ 2,376		\$ 50	\$ 2,426
2. Establish Existing Right of Way													
Research, Coordination, Calculations													
Subtotal	0	8	0	12	0	6	0	0	\$ 844	\$ 2,279		\$ 70	\$ 2,349
3. Environmental Documentation													
Add Time to include in SR 172/27th Street CDE Document													
Subtotal	8	0	0	2	0	0	2	0	\$ 446	\$ 1,204		\$ -	\$ 1,204
4. Subsurface Utility Investigation													
SUE Test Holes (based on 2 holes)													
Subtotal	2	0	0	0	0	0	0	0	\$ 84	\$ 264	\$ 2,388	\$ -	\$ 2,642
5. Preliminary Design (Stage 2)													
Title Sheet													
General Notes (2)						2			\$ 40	\$ 108		\$ 5	\$ 108
Preliminary Signal Layout (1)				4					\$ 140	\$ 378		\$ 5	\$ 378
Final Signal Layout					6				\$ 150	\$ 405		\$ 5	\$ 405
Signal Layout Detail (1)				2		4			\$ 100	\$ 270		\$ 5	\$ 270
Interconnect Plan					2	4			\$ 150	\$ 405		\$ 5	\$ 405
Timing/Phasing (1)					2	4			\$ 150	\$ 351		\$ 5	\$ 351
Coordination Timing (1)				2		1			\$ 50	\$ 135		\$ 5	\$ 135
Utility Diagram (1)					2				\$ 70	\$ 189		\$ 5	\$ 189
Pole Chart (1)				1					\$ 110	\$ 297		\$ 5	\$ 297
Detector Chart (1)				1					\$ 135	\$ 365		\$ 5	\$ 365
Display Chart (1)				1					\$ 60	\$ 162		\$ 5	\$ 162
Lighting Design				1					\$ 60	\$ 162		\$ 5	\$ 162
Status/Review Meeting				15					\$ 400	\$ 1,080		\$ 5	\$ 1,080
CAD/C				4					\$ 188	\$ 508		\$ 50	\$ 558
Subtotal	12	0	0	15	39	13	0	0	\$ 2,324	\$ 6,275	\$ -	\$ 75	\$ 6,350
6. Final Design (Stage 3 & Final Plans)													
General Notes (2)													
Final Signal Layout (1)				2		4			\$ 120	\$ 324		\$ 5	\$ 324
Quantities (1)					4	4			\$ 180	\$ 486		\$ 5	\$ 486
Develop Final Plans				2		4			\$ 150	\$ 405		\$ 5	\$ 405
Status/Review Meeting				6		2			\$ 217	\$ 586		\$ 50	\$ 586
CAD/C				10		8			\$ 448	\$ 1,210		\$ 75	\$ 1,285
Subtotal	5	0	0	10	16	8	0	0	\$ 1,333	\$ 3,599	\$ -	\$ 125	\$ 3,724
7. Preparation of Proposed Right of Way Plans (AL 4 CMAA)													
Research, Plan, Legal Description, Calculations, Field Staking													
Subtotal	0	38	0	42	0	18	0	0	\$ 3,274	\$ 8,840	\$ -	\$ 215	\$ 9,055
8. Contributory Monumentation													
Set Reference Pins			1					3	\$ 170	\$ 459		\$ 50	\$ 509
Set Marker			1					3	\$ 135	\$ 365		\$ 50	\$ 415
Subtotal	0	0	1	0	0	0	0	6	\$ 305	\$ 824	\$ -	\$ 100	\$ 924
9. Estimate of Probable Construction Costs													
Cost Estimate													
Subtotal	2	4	0	0	4	0	0	0	\$ 346	\$ 934	\$ -	\$ -	\$ 934
Project Totals	33	50	5	81	63	59	2	14	\$ 9,846	\$ 26,584	\$ 2,388	\$ 635	\$ 29,607

FEE SCHEDULE
STA-241-8.04/10.41
SR 241 (Wales Road/Lake Avenue
City of Massillon

TASK	PM / SENIOR TRAFFIC ENGINEER	R/W MANAGER	SURVEY MANAGER	SENIOR DESIGNER / ENV. SCL.	TRAFFIC ENGINEER	CADD TECHNICIAN	CLERICAL	2 MAN SURVEY CREW	TOTAL DIRECT LABOR	LABOR x MULTIPLIER	SUBCON- SULTANTS	DIRECT COSTS	TOTAL FEE
1. Topographic Survey & Basemapping SR 241 (Wales Road/Lake Avenue) Establish State Plane Coordinates Topographic Survey Basemap Development Alignments/Stationing													
Subtotal	0	0	4	0	2	12	0	6	80	2.376	-	50	2,426
2. Establish Existing Right of Way Research, Coordination, Calculations													
Subtotal	0	8	0	12	0	6	0	0	84	2.279	-	70	2,349
3. Environmental Documentation Categorical Exclusion Purpose and Need DDOT Draft CE Final CE Project Meetings													
Subtotal	14	30	8	3	2	10	4	763	1,515	2,060	-	125	2,185
4. Subsurface Utility Investigation SUE Test Holes (based on 2 holes)													
Subtotal	2	0	0	16	0	0	14	0	94	254	2,388	-	2,642
5. Preliminary Design (Stage 2) Title Sheet General Notes (2) Preliminary Signal Layout (1) Field Signal Layout Signal Layout Detail (1) Interconnect Plan Timing/Phasing (1) Coordination Timing (1) Wiring Diagram (1) Pole Chart (1) Detector Chart (1) Signal View Meeting CM/CO													
Subtotal	2	0	0	4	0	2	0	0	94	254	2,388	-	2,642
6. Final Design (Stage 3 & Final Plans) General Notes (2) Final Signal Layout (1) Durables (1) Detailed Final Plans Stakeout/Review Meeting CM/CO													
Subtotal	12	0	0	15	23	13	0	0	1,924	5,195	-	75	5,270
7. Preparation of Proposed Right of Way Plans (All 4 Corners) Research, Plan, Legal Description, Calculations, Field Staking													
Subtotal	0	38	0	42	0	18	0	0	3,274	8,840	-	215	9,055
8. Cantilever Monumentation Set Reference Ties Set Rebar													
Subtotal	0	0	1	0	0	0	0	3	170	459	-	50	509
9. Estimate of Probable Construction Costs Cost Estimate													
Subtotal	2	4	0	0	4	0	0	0	345	934	-	534	534
Project Totals	85	50	5	95	47	59	14	14	12,380	33,426	2,388	1,118	36,932

FEE SCHEDULE
STA-241-8.04/10.41
SR 241 (Wales Road)/Franklin Road
City of Massillon

TASK	PM / SENIOR TRAFFIC ENGINEER	R/W MANAGER	SURVEY MANAGER	SENIOR DESIGNER / ENV. SCI.	TRAFFIC ENGINEER	CADD TECHNICIAN	CLERICAL	2 MAN SURVEY CREW	TOTAL DIRECT LABOR	LABOR x MULTIPLIER 2.7	SUBCON-SULTANTS	DIRECT COSTS	TOTAL FEE
SR 241 (Wales Road)/Franklin Road													
1. Topographic Survey & Basemaping													
Establish State Plane Coordinates													
Topographic Survey			4		2			2	\$ 90	\$ 243		\$ 50	\$ 243
Basemap Development					2	12		6	\$ 410	\$ 1,107		\$ 50	\$ 1,157
Alignments/Staking					2	2			\$ 280	\$ 783			\$ 783
					4	14		8	\$ 90	\$ 243			\$ 243
Subtotal	0	0	4	0	4		0		\$ 880	\$ 2,376	-	\$ 50	\$ 2,426
2. Establish Existing Right of Way													
Research, Coordination, Calculations				12					\$ 844	\$ 2,279		\$ 70	\$ 2,349
Subtotal	0	8	0	12	0	6	0	0	\$ 844	\$ 2,279	-	\$ 70	\$ 2,349
3. Environmental Documentation													
Add Time to include in SR 241/Lake Avenue CE Document													
Subtotal	8	0	0	2	0	0	2	0	\$ 446	\$ 1,204	-		\$ 1,204
4. Subsurface Utility Investigation													
SUE Test Holes (based on 2 holes)													
Subtotal	2	0	0	0	0	0	0	0	\$ 94	\$ 254	2,388	-	\$ 2,642
5. Preliminary Design (Stage 2)													
Title Sheet													
General Notes (2)						2			\$ 40	\$ 108			\$ 108
Preliminary Signal Layout (1)									\$ 140	\$ 378			\$ 378
Field Signal Layout									\$ 130	\$ 351			\$ 351
Signal Layout Detail (1)					2	4			\$ 100	\$ 270			\$ 270
Interconnect Plan						4			\$ 150	\$ 405			\$ 405
Timing/Phasing (1)						4			\$ 130	\$ 351			\$ 351
Coordination Timing (1)					2	1			\$ 70	\$ 189			\$ 189
Width Diagram (1)					2	2			\$ 110	\$ 297			\$ 297
Pole Chart (1)					1	4			\$ 135	\$ 365			\$ 365
Detector Chart (1)					1	1			\$ 60	\$ 162			\$ 162
Display Chart (1)					1	1			\$ 60	\$ 162			\$ 162
Status/Review Meeting					4	1			\$ 188	\$ 508			\$ 508
QA/QC					8	1			\$ 541	\$ 1,461			\$ 1,461
Subtotal	12	0	0	15	23	13	0	0	\$ 1,524	\$ 5,155	-	\$ 75	\$ 5,230
6. Final Design (Stage 3 & Final Plans)													
General Notes (2)													
Final Signal Layout (1)									\$ 120	\$ 324			\$ 324
Quantities (1)						4			\$ 180	\$ 486			\$ 486
Develop Final Plans						4			\$ 180	\$ 486			\$ 486
Status/Review Meeting					2	4			\$ 217	\$ 586			\$ 586
QA/QC					6	2			\$ 488	\$ 1,210			\$ 1,258
Subtotal	9	0	0	10	16	8	0	0	\$ 1,333	\$ 3,599	-	\$ 125	\$ 3,724
7. Preparation of Proposed Right of Way Plans (All 4 Corners)													
Research, Plan, Legal Description, Calculations, Field Staking													
Subtotal	0	38	0	42	0	18	0	0	\$ 3,274	\$ 8,840	-	\$ 215	\$ 9,055
8. Centaline Monumentation													
Set Reference Ties													
Set Rebar			1					3	\$ 170	\$ 459		\$ 50	\$ 509
Subtotal	0	0	1	0	0	0	0	3	\$ 135	\$ 365		\$ 50	\$ 415
9. Estimate of Probable Construction Costs													
Cost Estimate									\$ 305	\$ 824	-	\$ 100	\$ 924
Subtotal	2	4	0	0	4	0	0	0	\$ 346	\$ 934	-		\$ 934
Project Totals	33	50	5	81	47	59	2	14	\$ 9,446	\$ 25,504	2,388	\$ 635	\$ 28,527