Engineering

Interiors

Planning

KZF DESIGN

September 23, 2005

Mr. Richard Fair, PE,
City Engineer, City of Mason
6000 Mason Montgomery Road
Mason, Ohio 45040

Subject: Proposal for Preliminary Engineering, Design, Environmental for US 42 (Reading Road) Improvements, Tylersville Road to Butler-Warren Road, Mason, Ohio PID No. 79850, WAR-US42-00

Dear Mr. Fair,

Thank you for giving KZF the opportunity to submit this engineering proposal for Part I of the subject project.

KZF has provided engineering and related services to local communities in southwest Ohio for nearly 50 years. KZF has provided highway design services to ODOT for over 30 years.

KZF and our anticipated sub-consultants, H.C. Nutting, G. J. Berding Surveying, and BHE Environmental, have the qualifications needed to provide the services as outlined in this proposal. KZF consistently rates at 80 or higher in the ODOT Evaluation System.

KZF has visited the site. This project is similar to sections of Montgomery Road that we are finishing in Hamilton and Warren Counties and a section of US 42 that we are currently working on in Butler county just south of your project. Please see our project list items for more information on these projects.

Following is KZF's response to your request for proposal. It is in the format outlined in Item B of the RFQ with additional information added per the Requirements for Selection Process and Requests for Proposals noted later in the RFQ. KZF looks forward to working with you and the City of Mason on this project.

Sincerely,
KZF Design Inc.

Henry L. Fedders, Jr., P.E.
Principal / Director / Transportation and Infrastructure Division

KZF DESIGN INC. 655 Eden Park Drive Cincinnati, OH 45202-6000

TEL 513 621 6211 FAX 513 621 6530 WEB www.kzf.com

EXHIBIT
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## 1 | KZF TEAM Prequalifications

| ODOT Prequalifications | KZF Design | G.J.Berding Surveying | BHE Environmental | AMEC Earth and Environmental | H.C. Nutting Company |
|---|---|---|---|---|---|
| Roadway Design, Non-Complex | X | | | | |
| Roadway Design, Complex | X | | | | |
| Interchange Justification / Modification Study | X | | | | |
| Safety Study | X | | | | |
| Bridge Design Level 1 | X | | | | |
| Bridge Design Level 2 | X | | | | |
| Bridge Inspections - Minor | X | | | | |
| Bridge Inspections - Major | X | | | | |
| Soils / Geotechnical Services | | | | | X |
| Geotechnical Testing Laboratory | | | | | X |
| R/W Plan Development | | X | | | |
| Traffic Signal Design – Basic Traffic Signal | X | | | | |
| Traffic Signal Design - System Design | X | | | | |
| Highway Lighting Design Limited Lighting | X | | | | |
| Highway Lighting Design Complex Lighting | X | | | | |
| Environmental Document Preparation – EA / EIS | X | | X | | |
| Environmental Document Preparation – CE | X | | X | | |
| Environmental Document Preparation – Section 4(f) | X | | X | | |
| Environmental Services – Waterway Permits | X | | X | | |
| Environmental Services – Ecological Surveys | | | X | | |
| Environmental Services – Noise Analyses and Abatement Design | | | | X | |
| Environmental Services – Archaeological Investigations | | | X | | |
| Environmental Services – History/Architectural Investigations | | | X | | |
| Environmental Services – ESA Screening, Phase I and Phase II ESA | | | X | | |

## 2 | Participation

Project:
**WAR-42-0.00**
[PID No79850
District 8

**Prime Consultant** **KZF Design**
**Description of Work** Project Management ■ Roadway ■ Drainage ■ Lighting ■ Traffic Control ■ Public Involvement ■ CE Document
**Percentage of Work** 53.2%

**Significant Subconsultant** **G. J. Berding Surveying, Inc..**
**Description of Work** Surveying ■ R/W
**Percentage of Work** 14%

| | |
|---|---|
| **Significant Subconsultant** | **BHE Environmental, Inc.** |
| **Description of Work** | Ecological Surveys ■ ESA Screening ■ ESA Phase I ■ Cultural Resources ■ Archaeological Investigations |
| **Percentage of Work** | 7% |

| | |
|---|---|
| **Significant Subconsultant** | **H. C. Nutting** |
| **Description of Work** | Subsurface Investigation |
| **Percentage of Work** | 23% |

| | |
|---|---|
| **Significant Subconsultant** | **AMEC Earth and Environmental** |
| **Description of Work** | Noise Analysis |
| **Percentage of Work** | 2.8% |

## 3 | KZF Key Personnel and Resumes

### KZF DESIGN INC.

**Heinrich Zehetmaier, (Project Manager)** has over 35 years of experience in the management, planning, and design of transportation projects for state and local agencies. His most recent experience with interstates and freeways includes the PRE-70-0.00 and HAM-71-11.08 design-build projects and the preliminary development phase and final design for the reconstruction of the Paddock Road Interchange at I-75 in Cincinnati. He also managed the widening of I-75 in Hamilton and Butler Counties (HAM/BUT-75-26.441/0.00); the environmental phase and final design of the first two separate construction sections (eight miles) of the completed Butler Regional Highway (SR 129 Relocation) project; and the eight-mile U.S. 30 relocation project for ALL/HAN-30-20.31/0.00 for District 1. In the past, he managed the widening of the CLA-70-13.98 project. His recent experience with other roadways includes Part 1 and 2 for the widening project CLE-132-6.50 and CLI-68-2.01and three separate construction phases of the widening of 6 miles of Montgomery Road (HAM-22-15.84 and 16.45), (HAM/WAR-US 22-19.11/0.00). In addition, his experience includes the widening of BUT-CR-19-6.22 (Cincinnati-Dayton Rd.), HAM-50-17.53 River Road, SR 747-4.25 and currently the widening of US42 in Butler County. This project required coordination with subsurface utility engineering work. These projects were completed on time and within budget. In addition to his direct involvement in the management of highway projects, he has the corporate responsibility to ODOT for the successful completion of the project

**Bryan Bender, P.E., (Project Engineer)** has 11 years experience in the design of complex roadway projects, rehabilitation projects, highway storm drainage design - open and closed system, water mains, sanitary sewers and maintenance of traffic plans. He completed the R/W course and PDP class. His experience includes the design-build project PRE-70-0.00, the reconstruction of the Paddock Road HAM-4-4.00 Interchange with I-75, the 8-mile relocation of SR 129 (Butler Regional Highway), the widening of HAM/BUT-75-26.441/0.00, and the 8-mile relocation of ALL/HAN-30-20.31/0.00. He is also experienced in developing plans for the reconstruction of Rest Areas. In addition, he designed much of the closed storm sewer drainage system for the widening of Montgomery Road (HAM-22/3-17.56) between Kemper Road and Fields Ertel Road. He is experienced with the new RMP process for post construction storm water discharge

**Jonathan G. Wiley, P.E, (Project Traffic Engineer)** has over 16 years of experience that encompasses traffic engineering, maintenance of traffic plans, traffic studies, interchange modification and justification studies and complicated geometry for roadway design. He is also very experienced in preliminary development phase/environmental projects and environmental document preparation including a tremendous amount of public involvement. He is ODOT certified for Interchange Justification Studies, Safety Studies, Traffic Signals, Sec. 4(f)&106, CE Document and he attended the PDP class. Mr. Wiley's most recent projects include the completion of the CE Document for the 6-mile widening of US22 (Montgomery Road) in Hamilton and Warren Counties. He also

completed the Beechmont Avenue (SR125) Access and Corridor Study. He also did the Signal Design for the relocated SR 129 (Butler Regional Hwy.) and the interchange justification study at I-75. In addition, he prepared the interchange modification studies of HAM SR4 at I-75 and Tylersville Road with BUT I-75 including the signal design for HAM-50-17.53 (River Road) and HAM 4-4.00

**Bradley Ackel, PE, (Design Engineer)** has eight years of experience. His responsibilities include designing new roads as well as upgrades for existing ones, designing hike/bike trails, storm sewer design, culvert design, ditch drainage design, curb drainage design and site development including storm detention design. He is ODOT certified for MOT, CE, Sec.106 & 4(f), and he attended the PDP class. While working in the firm's Transportation and Infrastructure division, Mr. Ackel has gained a firm understanding of roadway and drainage design software (GEOPak and Roadcalc) as well as Microstation, AutoCADD, Flowmaster, and Microsoft products. In addition, he regularly attends GEOPak training courses with ODOT to keep up with software advancements. Mr. Ackel's recent project experience includes: HAM US50-17.53 (River Road) widening; City of Cincinnati; US68-2.01 relocation in Clinton County; I-71-11.08, Hamilton County, OH (*Design-build project)*; State Route 132-6.50 Widening; Clermont County, OH; BUT-CR19-6.22 Cincinnati-Dayton Rd. widening, Butler County, OH; BUT-SR747-4.25 widening and BUT-42-0.00 widening currently under design.

**Doug Brand, KZF, (CADD/Designer)** has 20 years of highway design and site development experience. Mr. Brand is experienced in the design of roadways, and rest area projects as well as layout and design of maintenance of traffic plans, traffic control plans and lighting plans. He has a special expertise in guardrail and impact attenuator design. His most recent experience includes the partial widening and upgrading of PRE-70-0.00 and HAM-71-11.08, both design build projects; the widening of HAM/BUT-75-26.441/0.00; the widening of HAM-22/3-16.45 and HAM/WAR-22/3-0.00 (Montgomery Road); the widening of Cincinnati-Dayton Rd. (BUT-CR19-6.22); and the widening of River Road, HAM-50-17.53 in Cincinnati. Mr. Brand is ODOT certified in signage, pavement markings, and MOT. He also attended the classes for the ODOT Estimator Program, recently adopted.

**BHE, Inc**

**Diane Hoeting (Project Manager for Environmental Work)** is a Project Manager and environmental scientist with BHE and also participates in a multidisciplinary array of environmental tasks. Ms. Hoeting has managed several highway projects for the Ohio Department of Transportation and local governments including the SR7 relocation in Lawrence County; Symmes Road Extension in Butler County; Cincinnati-Dayton Road widening for Butler County; and several bike trail projects according to ODOT requirements. In addition, she managed the environmental work for the 6 mile widening of Montgomery Road (US22) in Hamilton and Warren Counties. She is currently managing the environmental studies for the widening of US42 in Butler County. Ms. Hoeting has participated in public meetings for the numerous highway projects. She has attended FHWAs Noise Training and the Highway Project Development and Environmental Certification Courses for ODOT.

**Eric Riekert (Environmental Site Assessment)** has over 16 years of diverse environmental compliance and consulting experience. Mr. Riekert has extensive experience in property transfer due diligence projects, including Phase I and II Environmental Site Assessments. His experience includes conducting or reviewing environmental projects for numerous transportation projects. These projects have been conducted according to Ohio Department of Transportation guidelines. These projects have included ESA Screenings for projects such as roadways, bike paths, and sidewalk improvements, Phase I, and Phase II Environmental Site Assessments. Mr. Riekert's recent transportation-related project experience includes environmental site assessments and ESA screenings for State Route 132 in Clermont County, State Route 350 improvements in Warren County, four Phase I ESAs for the widening of a segment of Montgomery Road (US22) in Hamilton County (project in progress for ODOT District 8), and a Phase II ESA for a bridge replacement project in Xenia conducted directly for ODOT District 8. He has recently prepared the ESA screening report for the widening of US42 in Butler County. This project also requires a Phase I ESA study.

## H.C. Nutting Company

**Swaminathan Srinivasan, PE (Geotechnical),** was H.C. Nutting's lead geotechnical engineer for the Fort Washington Way reconstruction in downtown Cincinnati. Mr. Srinivasan has performed geotechnical studies for numerous walls, bridges, tunnels, and embankments. He has provided direction, oversight, review, and consultation on various projects in Hamilton and Clermont Counties including bridge and roadway, pile load tests and other instrumentation programs. Projects served include: Ft. Washington Way, Cincinnati, Ohio (1997-2000); Columbia Parkway Bridge replacement over US50, Hamilton County, Ohio (2002). In addition, Mr. Srinivasan recently prepared the geotechnical report for the subgrade investigation and retaining walls for the widening of Montgomery Road (US22) in Hamilton and Warren Counties, the widening of River Road (US 50) for the City of Cincinnati, the widening of SR132 in Clermont County. He is currently managing the subsurface investigation for the widening of US42 in Butler County.

## G.J. Berding Surveying, Inc.

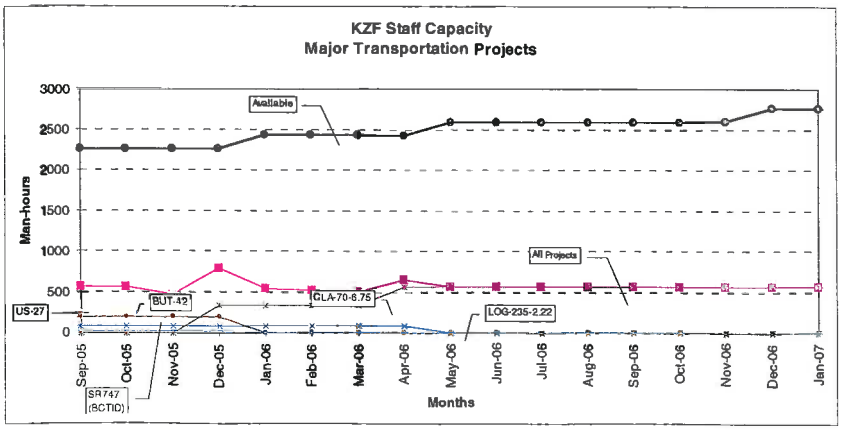
**Gerard J. Berding, P.S. (Surveying)** has over 31 years of experience with field and boundary surveys for state, county, and municipal governments as well as the private sector. He is the Chief Surveyor within his company and is personally responsible for checking all boundary surveys and legal descriptions. He also manages schedules as well as field crews, and he is the primary client contact. He performed the field survey work and prepared legal descriptions for 6 miles of the Butler Regional Highway,(Reloc. SR129), for the 5 mile section of HAM/BUT-75-26.441 widening, 1.5 miles of Cincinnati-Dayton Road widening in Butler County, and 6 mile widening of Montgomery Road (US22) in Hamilton and Warren Counties.

## AMEC Earth and Environmental

**Rebecca Sabraoui (Noise Analysis and Abatement)** is responsible for preliminary development projects, including alternative development and analysis, public involvement, regulatory agency coordination/ permitting and preparation of environmental documents. Ms. Sabrauoui is also experienced in documenting Section 6(f), Section 106, and FHWA Section 4(f) applicability, and preparing Section 404 Permit and Section 401 Water Quality Certification applications. Project experience includes air quality analyses, NEPA Environmental Impact Statements, Environmental Assessments, Categorical Exclusions, environmental compliance assessments, transportation noise analyses, and Phase I Environmental Site Assessments. She is prequalified by the Ohio Department of Transportation for Transportation Noise Analysis and Preliminary Barrier Design.

## 4 | Workload Capacity

The following chart conveys the current backlog of work for KZF's Transportation Staff. The available man-hours per month for KZF's Transportation Staff are plotted against the current backlog for all projects. As seen by the difference between the available man-hours and current backlog of work, we have sufficient availability of staff to perform services.



For this project to be successful, KZF Design will provide strong project management supported by an excellent technical staff and subconsultants who have recent experience on very similar projects. The project manager will establish a close communication with the City and the ODOT District and will respond expeditiously to questions or requests.

**Understanding of Project**

The project objective is to widen the existing roadway to the width and limits as specified in the Scope of Services by maintaining the existing centerline as much as possible. In addition, it would be most cost effective to salvage as much of the existing pavement as possible. However, to lessen the impacts on adjacent business parking lots, building frontages, etc., and to provide proper drainage it may require some shifting of the alignment and an adjustment in the profile grade. In the proposed three lane uncurbed section, a design exception to reduce the required shoulder width may be desirable to reduce property impacts. During our site visit, we noticed a power transmission line and water line on the west side and a major pole mounted telephone line on the east side. It will be extremely important to start utility company coordination as soon as preliminary plans are developed during the environmental study phase of this project. There are also existing street lighting luminaires on bracket arms mounted to the power poles. The proposed median mounted light poles for the five lane section will replace the existing lighting, however, in the three lane section, the future of the existing lighting will have to be addressed during Part 2 of plan development.

The project requires a bike path and sidewalk on opposites sides of the roadway. During the early stage of plan development, KZF will recommend and discuss with the City which side is best for the location of the side walk.

Access management is an important issue to be considered in the widening of the road. KZF will investigate combining entrance/exits to lessen the impact to the widened roadway.

**Approach to Project**

Our technical approach will begin at once by compiling a mailing list of all adjacent property owners. All owners will be notified regarding work crews entering their properties. Following the notification, the field survey work will begin with the collection of topographic data, property and right of way lines and all existing utilities marked in the field by their respective owners. Simultaneously, a Purpose and Need Statement and a List of stakeholders will be prepared and submitted to ODOT and the City for review and later inclusion in the CE document. Drainage Criteria Form LD-35 will also be completed and submitted at the beginning of the project.

While the field survey is in progress, the ESA Screening and Cultural Resources Red Flag Summary can be prepared. Pending the findings, Phase I Environmental Site Assessment and Phase I Archaeological Studies can be conducted as soon as preliminary plans and construction limits are available. The Level I Ecological Survey can also be started immediately, however, the survey is confined to specific times of the year when certain species can be identified (e.g. Buffalo Clover).

Once the field survey and base map are completed, preliminary plans will be developed for possibly more than one alternative and submitted for review as part of the Preliminary Engineering Study. These plans will be accompanied by an approximate cost estimate for construction, right of way, and utility reimbursement, if applicable. The Draft Environmental Document (CE) will be written at this time and submitted for review to ODOT. Pending any Phase I ESA or archaeological finding, the CE document may or may not be totally finalized by the end of Part I.

Following the Preliminary Engineering review, a public involvement meeting will be conducted. KZF will notify, by mail, all property owners, and will provide exhibits, project description handouts, attend the meeting and prepare the comment summary. After the preferred widening option has been identified, the subsurface investigation, primarily for subgrade, will be conducted. A pavement design with the geotechnical report will then be submitted for review. In addition, any required Phase I ESA and Phase I Archaeological Studies can be finalized at this time. In conjunction with the Preliminary Engineering Study, an Access Control Plan will be developed and presented to the City and ODOT.

The preparation of Stage I plans will start shortly after the public meeting once the preferred alignment option has been identified. These plans will include plan and profile sheets, typical sections, cross sections, concept maintenance of traffic plans, preliminary signing, signal, and pavement marking plans, intersection details, and driveway details. The plan will also include storm sewer profiles and culvert details. The construction and right-of-way cost estimates will be updated prior to Stage I plan submission. The final waterway Permit Application can also be submitted at this time.

### Schedule

The KZF Team has a track record of meeting schedules. We will use the *Microsoft Project* software to schedule and track the work. In addition, we will submit a monthly project schedule update, if required.

### QA | QC

KZF Design has established corporate goals and a plan to achieve quality design. Our QA/QC effort is practiced throughout the design process. Our quality assurance program requires us to plan the work, work the plan, and check the work. As lead consultant on this project, KZF will be responsible for overall project correctness and completeness.

## 6 | Listing of Similar Projects under Design and Completed:

### *PROJECTS COMPLETED*

**1. HAM-50-17.53 River Road Widening**

**Description** Preliminary study and environmental assessment, preliminary plans, and final construction plans for the widening of an approximate one-mile stretch of River Road from two lanes to four lanes, including archeological excavation of cisterns and privies, retaining walls, storm sewer system, right-of-way plans, and traffic control.

**Relevance** Widening and Access Management

**Contact** Joan Buttner, City of Cincinnati (513)352-6236

**2. US 27 North Section – Campbell Co. KY**

**Description** Environment assessment, access management study, and preliminary engineering services for a 6.8-mile roadway widening and safety improvements on U.S. 27 near Alexandria, Kentucky. After the study, construction documents were developed for Phase I (the length of U.S. 27 beginning from Kahn's north to one mile south of Alexandria

**Relevance** Widening and Access Management

**Contact** Mike Bezold, KYTC, (859) 341-2700

3. **BUT-CR19-6.22 (Cincinnati-Dayton Rd)**

**Description** Environmental studies, engineering, and construction documents to widen three lanes, including curbs, gutters, and sidewalks, along Cincinnati-Dayton Road in Butler County. The project length is approximately one mile stretching from the Butler County Regional Highway to Princeton Road. Additional engineering services are also being provided to widen this roadway from Princeton Road to Millikin Road and will include three lanes with six-foot paved shoulders.

**Relevance** Widening and Access Management

**Contact** Greg Wilkens, (513)867-5744

4. **HAM-22/3 and WAR-22/3, Montgomery Rd. Widening, Phases I, II, IV**

**Description** Roadway engineering and construction documents for the widening of Montgomery Road from two lanes into five lanes for 6 miles from Weller Road to just north of the old CCC Highway, including turn lanes and ten-foot paved shoulders that will serve as a combination shoulder and bike way.

**Relevance** Widening and Access Management

**Contact** Jon Milesky, ODOT (513) 933-6616

5. **HAM-125 Beechmont Ave. Access Management Study**

**Description** Analysis of existing conditions and preparation of updated access management recommendations, new sidewalks and urban design enhancements along the Beechmont Corridor in Anderson Township.

**Relevance** Access Management

**Contact** Dottie Scott (513)474-4802

## *Projects Under Design*

1. **US 27 Widening**

**Description** US 27 South Section – Campbell County, KY

Environment assessment, access management study, and preliminary engineering services for a 6.8-mile roadway widening and safety improvements on U.S. 27 near Alexandria, Kentucky. After the study, construction documents were developed for Phase I (the length of U.S. 27 beginning from Kahn's north to one mile south of Alexandria) and for Phase 2 (from Route 154 to Kahn's).

**Relevance** Widening / Relocation / Access Management

**Contact** KYTC: Mike Bezold (859)474-4802

2. **SR 747 Widening**

**Description** Design of phase III of the widening of State Route 747 from Tylersville Road to State Route 29.

**Relevance** Widening and Access Management

**Contact** John Fonner, BCTID (513) 785-5800

3. **BUT-42-0.00**

**Description** Preliminary plans and environmental studies for widening of US 42 between Fields-Ertel Road and Butler-Warren Counties line

**Relevance** Widening and Access Management

**Contact** Jay Hamilton (513) 933-6584

## 7 | Project Workload

See Item 4 . The total number of Transportation Staff available in the Cincinnati Office is 13.

## 8 | Detailed Project Schedule

See page 11.

## 9 | Fee Proposal

See below and page 10.

**PROPOSED TOTAL HOURS, PERSONNEL CATEGORIES AND LABOR RATES**
**WAR-42-0.00**
**PID 79850**
**Minor PDP**

**CONSULTANT: KZF Design, Inc.**

**PROJECT DESCRIPTION: Widen to three lanes and five lanes.**

**HOURLY RATES**

| | | | |
|---|---|---|---|
| Proj Exec/Proj Mgr | $38.00 | PI Specialist | $0.00 |
| Project Engineer | $27.25 | | |
| Design Engineer | $24.25 | Env Specialist | $31.50 |
| R/W Specialist | $0.00 | | |
| Survey Mgr | $0.00 | | |
| Technician | $22.50 | | |
| Clerical | $16.00 | | |

| Task Description | Proj Mgr/ Proj Exec | Project Eng | Design Eng | Env Spec | Technician | Clerical | Overall Total Hours |
|---|---|---|---|---|---|---|---|
| **Part 1** | | | | | | | |
| **SUBTOTAL PART 1** | **205.5** | **276** | **640** | **218** | **658** | **28** | **2025.5** |
| Task 4.3.8 Phase 1 Archaeological 5300 ft."If Authorized" | 0 | | 0 | | | | |
| Task 4.3.7 Phase 1 History/Architecture 6 sites"If Authorized" | 0 | | 0 | | | | |
| **GRANDTOTAL PART 1** | **205.5** | **276** | **640** | **218** | **658** | **28** | **2025.5** |

# Price Summary

ENGINEERING AND TECHNICAL SERVICE COST PRICE PROPOSAL
AND LABOR RATES
WAR-42-0.00
PID 79850
Minor PDP

CONSULTANT: KZF Design, Inc.

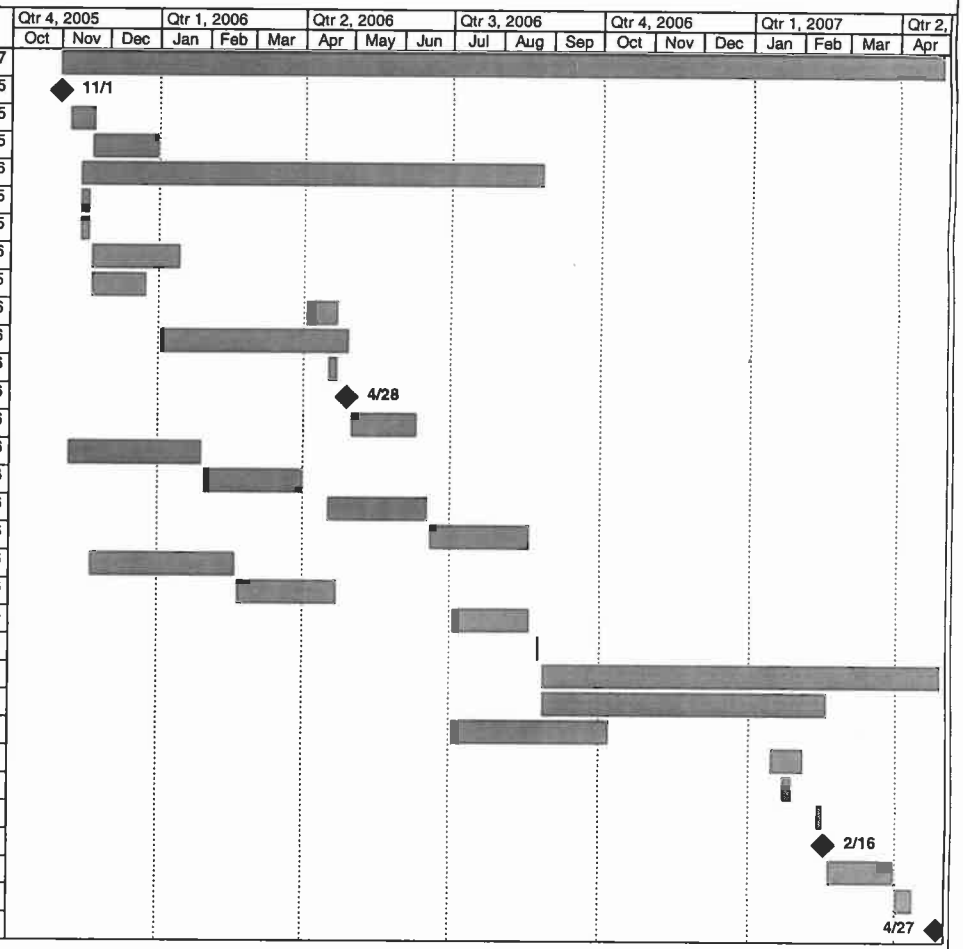
PROJECT DESCRIPTION: Widen to three lanes and five lanes.

Overhead Percentage = 155.93%
Net Fee Percentage = 12.00%
Cost of Money = 0.00%

| Task Description | No. | Hourly Rate | Total Hours | Labor Costs | Overhead Costs | Cost of Money | Direct Costs | Subcon Costs | Net Fee | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|
| **Part 1** | | | | | | | | | | |
| **Step 1- Develop Purpose and Need** | | | | | | | | | | |
| Task 1.1 Initial Activities "Kick-off" | 0 | $38.00 | 3 | $114 | $178 | $0 | $0 | $0 | $35 | $327 |
| Task 1.2 Define Study Area | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 1.3 Stakeholder Involvement and PIP | 0 | $32.17 | 24 | $772 | $1,204 | $0 | $0 | $0 | $237 | $2,213 |
| Task 1.4 Site Visit | 0 | $29.83 | 12 | $358 | $558 | $0 | $0 | $0 | $110 | $1,026 |
| Task 1.5 Technical Studies | 0 | $24.25 | 4 | $97 | $151 | $0 | $0 | $0 | $30 | $278 |
| Task 1.6 Red Flags | 0 | $27.25 | 4 | $109 | $170 | $0 | $0 | $0 | $33 | $312 |
| Task 1.7 Secondary Source Documentation | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 1.8 Purpose and Need | 0 | $31.69 | 34 | $1,078 | $1,680 | $0 | $0 | $0 | $331 | $3,089 |
| Task 1.9 Prepare Cost Estimate and Revise Milestone | 0 | $28.44 | 9 | $256 | $399 | $0 | $0 | $0 | $79 | $734 |
| Task 1.10 Project Management for Step 1 | 0 | $38.00 | 8 | $304 | $474 | $0 | $0 | $0 | $93 | $871 |
| **Step 1 subtotal** | | | **98** | **3088** | **4814** | **0** | **0** | **0** | **948** | **$8,850** |
| **Step 2- Determine Scope, Schedule, and Budget** | | | | | | | | | | |
| Task 2.1 Alternative Identification and Evaluation | 0 | $23.78 | 38 | $904 | $1,409 | $0 | $0 | $0 | $277 | $2,590 |
| Task 2.2 Project Scope | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 2.3 Project Schedule and Budget | 0 | $38.00 | 8 | $304 | $474 | $0 | $0 | $0 | $93 | $871 |
| Task 2.4 Preliminary Legislation | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 2.5 Environmental Documentation Determination | 0 | $31.50 | 2 | $63 | $98 | $0 | $0 | $0 | $19 | $181 |
| Task 2.6 Concurrence Point #1 | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 2.7 Update Cost Estimate and Milestone Dates | 0 | $27.25 | 2 | $55 | $85 | $0 | $0 | $0 | $17 | $156 |
| Task 2.8 Project Management for Step 2 | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| **Step 2 subtotal** | | | **50** | **1325** | **2066** | **0** | **0** | **0** | **407** | **$3,798** |
| **Step 3-Perform Environmental Analysis and Begin Preliminary Engineering** | | | | | | | | | | |
| Task 3.1 Property Owner Notification | 0 | $18.03 | 19 | $343 | $534 | $0 | $0 | $0 | $105 | $982 |
| Task 3.2 Preliminary Engineering and Constructability I | 0 | $24.80 | 423 | $10,491 | $16,359 | $0 | $200 | $51,020 | $3,246 | $81,316 |
| Task 3.3 Utility Identification and Railroad Coordinatior | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 3.4 Environmental Field Studies | 0 | $27.74 | 35 | $971 | $1,514 | $0 | $0 | $25,785 | $298 | $28,568 |
| Task 3.5 Preferred Alternative | 0 | $31.50 | 2 | $63 | $98 | $0 | $0 | $0 | $19 | $181 |
| Task 3.6 Waterway Permit Determination | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 3.7 Draft Categorical Exclusion | 0 | $31.76 | 100 | $3,176 | $4,952 | $0 | $0 | $0 | $975 | $9,104 |
| Task 3.8 Concurrence Point #2 and Scope of Detailed | 0 | $31.50 | 1 | $32 | $49 | $0 | $0 | $0 | $10 | $90 |
| Task 3.9 Update Cost Estimates and Milestone Dates | 0 | $103.25 | 4 | $131 | $203 | $0 | $0 | $0 | $40 | $374 |
| Task 3.10 Project Management for Step 3 | 0 | $37.33 | 64 | $2,389 | $3,725 | $0 | $0 | $0 | $734 | $6,848 |
| **Step 3 subtotal** | | | **648** | **17594** | **27435** | **0** | **200** | **76805** | **5427** | **$127,461** |
| **Step 4- Prepare Environmental Clearance and Develop Stage 1 Design** | | | | | | | | | | |
| Task4.1 Stage 1 Detailed Design | 0 | $23.90 | 1074 | $25,668 | $40,025 | $0 | $882 | $79,525 | $7,989 | $154,089 |
| Task4.2 Property Owner Notification | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 4.3 Environmental Field Studies | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $4,740 | $0 | $4,740 |
| Task 4.4 Final Waterway Permit and Conceptual Mitig | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 4.5 Floodplain Coordination | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 4.6 Environmental Commitments Summary | 0 | $31.50 | 8 | $252 | $393 | $0 | $0 | $0 | $77 | $722 |
| Task 4.7 Final Categorical Exclusion | 0 | $32.62 | 58 | $1,892 | $2,950 | $0 | $0 | $0 | $581 | $5,423 |
| Task 4.8 Director's Authorization | 0 | #DIV/0! | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Task 4.9 Update Cost Estimate | 0 | $30.18 | 11 | $332 | $518 | $0 | $0 | $0 | $102 | $952 |
| Task 4.10 Project Management for Step 4 | 0 | $33.70 | 80 | $2,696 | $4,204 | $0 | $0 | $1,055 | $828 | $8,783 |
| **Step 4 subtotal** | | | **1231** | **30840** | **48089** | **0** | **882** | **85320** | **9577** | **$174,709** |
| **Part 1 Subtotal** | | | **2027** | **$52,847** | **$82,404** | **0** | **$1,082** | **$162,125** | **$16,360** | **$314,818** |
| Task 4.3.8 Phase 1 Archaeology 5300 ft."If Authorized" | | | | | | | | $14,000 | | $14,000 |
| Task 4.3.7 Phase 1 History/Architecture 6 sites "If Authorized" | | | | | | | | $12,500 | | $12,500 |
| **Part 1 Grandtotal** | | | | | | | | **$188,625** | | **$341,318** |

## PROJECT SCHEDULE

| ID | Task Name | Duration | Start | Finish |
|---|---|---|---|---|
| 1 | **Minor Project - War-US 42- 0.00** | 389 days | Tue 11/1/05 | Fri 4/27/07 |
| 2 | AUTHORIZATION TO PROCEED | 0 days | Tue 11/1/05 | Tue 11/1/05 |
| 3 | **Step 1 - Develop Purpose and Need** | 11 days | Mon 11/7/05 | Mon 11/21/05 |
| 4 | **Step 2 - Alternative Identification** | 30 days | Mon 11/21/05 | Fri 12/30/05 |
| 5 | **Step 3 - Environmental Analysis and Begin Prelim. Engineering** | 205 days | Mon 11/14/05 | Fri 8/25/06 |
| 6 | Notify Property Owners | 5 days | Mon 11/14/05 | Fri 11/18/05 |
| 7 | Drainage Criteria | 5 days | Mon 11/14/05 | Fri 11/18/05 |
| 8 | Complete Topographic Field Survey and Base Maping | 40 days | Mon 11/21/05 | Fri 1/13/06 |
| 9 | Utility Co. Coord. & Facility Locations | 25 days | Mon 11/21/05 | Fri 12/23/05 |
| 10 | Post Construction Best Management Practices Feasibility Study | 15 days | Mon 4/3/06 | Fri 4/21/06 |
| 11 | Preliminary Engineering Study | 84 days | Tue 1/3/06 | Fri 4/28/06 |
| 12 | Update Cost Estimates | 5 days | Mon 4/17/06 | Fri 4/21/06 |
| 13 | Submit Preliminary Engineering | 0 days | Fri 4/28/06 | Fri 4/28/06 |
| 14 | Review and Approval by ODOT | 30 days | Mon 5/1/06 | Fri 6/9/06 |
| 15 | ESA Screening | 60 days | Mon 11/7/05 | Fri 1/27/06 |
| 16 | ODOT Review and Approval | 45 days | Mon 1/30/06 | Fri 3/31/06 |
| 17 | Ecological Report | 45 days | Mon 4/17/06 | Fri 6/16/06 |
| 18 | ODOT Review and Approval | 45 days | Mon 6/19/06 | Fri 8/18/06 |
| 19 | Phase 1 History / Architecture | 65 days | Mon 11/21/05 | Fri 2/17/06 |
| 20 | ODOT Review and Approval | 45 days | Mon 2/20/06 | Fri 4/21/06 |
| 21 | Prepare Draft CE Document | 35 days | Mon 7/3/06 | Fri 8/18/06 |
| 22 | Public Involvement Meeting | 1 day | Thu 8/24/06 | Thu 8/24/06 |
| 23 | **Step 4 - Environmental Clearance & Stage 1 Design** | 175 days | Mon 8/28/06 | Fri 4/27/07 |
| 24 | Develop Stage 1 Detail Design | 125 days | Mon 8/28/06 | Fri 2/16/07 |
| 25 | Subsurface Investigation and Report | 70 days | Mon 7/3/06 | Fri 10/6/06 |
| 26 | Prepare and Submit Final CE Document | 15 days | Mon 1/15/07 | Fri 2/2/07 |
| 27 | Prepare Final Waterway Permit | 5 days | Mon 1/22/07 | Fri 1/26/07 |
| 28 | Update Project Cost Estimate | 3 days | Mon 2/12/07 | Wed 2/14/07 |
| 29 | Submit Stage 1 Detail Design | 0 days | Fri 2/16/07 | Fri 2/16/07 |
| 30 | Review and Approval by ODOT | 30 days | Mon 2/19/07 | Fri 3/30/07 |
| 31 | Part 2 Scope Of Services and Proposal Preparation | 8 days | Mon 4/2/07 | Wed 4/11/07 |
| 32 | **Stage 1 Detail Design Plans Completed** | 0 days | Fri 4/27/07 | Fri 4/27/07 |




Project: WAR-42-0.00
Date: 9/23/05