## ENGINEERING SERVICES AGREEMENT

**OWNER** and **CONSULTANT** in consideration of their mutual covenants herein agree in respect of the performance of professional engineering services by **CONSULTANT** and the payment for those services by **OWNER** as set forth below.

CONSULTANT shall provide professional consulting services for OWNER in all phases of the Project to which this Agreement applies, serve as OWNER'S professional engineering representative for the Project as set forth below and shall give professional consultation and advice to OWNER during the performance of services hereunder.

# SECTION 1 - BASIC SERVICES OF CONSULTANT

#### 1.1. General

**CONSULTANT** shall perform professional services as hereinafter stated that include customary civil, geotechnical, structural, and traffic engineering services; and customary surveying services incidental thereto.

# 1.2. Data Collection and Preliminary Design Phase

After written authorization to proceed with the Data Collection and Preliminary Design Phase, **CONSULTANT** shall:

- 1.2.1. Notify the **OWNER** in writing of its authorized representative who shall act as Project engineer and liaison representative between the **CONSULTANT** and the **OWNER**.
- 1.2.2. Meet with **OWNER** to discuss the project requirements and proposed Scope of Work, and to conduct a project site visit.
- 1.2.3. On the basis of the "Scope of Services", review available GIS, mapping, PVA and related documents; conduct field and boundary surveys; and prepare a Preliminary Design Technical Memorandum. The latter shall include preliminary plans and a preliminary opinion of construction costs, accompanied by separate cost opinions for utility relocation and total right-of-way/easement acquisition.
- 1.2.4. Furnish up to five (5) copies (total TBD) of the above preliminary design documents and present them in person to OWNER. After OWNER'S detailed review, attend conference with OWNER to discuss OWNER'S comments.

- **1.2.5.** Furnish one copy of the above preliminary drawings to each of the local utility companies.
- **1.2.6.** Furnish one (1) copy of the above preliminary drawings to the Kentucky Transportation Cabinet.

## 1.3. Final Design Phase

After written authorization to proceed with the Final Design Phase, CONSULTANT shall:

- 1.3.1. On the basis of the approved preliminary design documents and the preliminary opinion of construction cost, prepare final drawings and specifications consistent with the "Scope of Services", to show the character and extent of the Project.
- 1.3.2. Prepare such documents and design data as may be required to apply for approvals of such governmental authorities as have jurisdiction over design criteria applicable to the Project, and obtain such approvals by negotiations with appropriate authorities.
- 1.3.3. Advise OWNER of any adjustments to the latest opinion of construction cost resulting from changes in the project extent and/or design requirements, or in changes to unit costs. Furnish a revised opinion of construction cost based on the Drawings and Specifications.
- **1.3.4.** Prepare for review and approval by **OWNER**, contract agreement forms, general conditions and supplementary conditions, bid forms, invitations to bid and instructions to bidders, and other related documents.
- 1.3.5. Furnish up to five (5) copies (total TBD) of the above documents and present them in person to OWNER. After OWNER'S detailed review, attend conference with OWNER to discuss OWNER'S comments.
- 1.3.6. Furnish one (1) copy of the Final Drawings to each of the local utility companies.
- 1.3.7. Furnish one (1) copy of the Final Drawings to the Kentucky Transportation Cabinet.

# 1.4. Easement and Right-of-Way Acquisition

After written authorization to proceed with Easement and Right-of-Way Acquisition, CONSULTANT shall:

- **1.4.1.** Prepare plats and legal descriptions as required for acquisition of right-of-way consistent with the "Scope of Services".
- 1.4.2. Prepare exhibits and legal descriptions as required for acquisition of temporary and permanent easements consistent with the "Scope of Services".
- 1.4.3. Set corner pins (or offsets) as necessary to define the physical limits of all properties which must be acquired in fee simple consistent with the "Scope of Services".

Note: Negotiations with property owners for acquisitions of easements and right-of-way will be performed by LFUCG personnel.

## 1.5. Bidding or Negotiating Phase

The Bidding or Negotiation Phase shall be performed solely by the **OWNER**. However, during Bidding, the **CONSULTANT** shall be available to address any questions that arise concerning the accuracy or intent of his work.

#### 1.6. Construction Phase

The Construction Phase shall be performed solely by the **OWNER**. However, during Construction, the **CONSULTANT** shall be available to address any questions that arise concerning the accuracy or intent of his work.

## SECTION 2 - EXTRA WORK BY CONSULTANT

- 2.1. The OWNER may desire to have the CONSULTANT perform work or render services in connection with this Project other than provided by the expressed intent of this Agreement. Such work shall be considered as "Extra Work", subject to a change order, supplemental to this Agreement, setting forth the character and scope thereof and the compensation therefore. Work under such change order shall not proceed until the OWNER gives written authorization. Should the OWNER find it desirable to have previously satisfactorily completed and accepted plans or parts thereof revised, the CONSULTANT shall make such revisions as directed, in writing, by the OWNER. This work shall be considered as "Extra Work" and shall be paid as such.
- 2.2. All "Extra Work" is subject to prior written authorization of **OWNER** and necessary appropriations made by the Urban County Council.

## **SECTION 3 - OWNER'S RESPONSIBILITIES**

#### **OWNER shall:**

- 3.1. Provide criteria and information as to **OWNER'S** requirements for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility and expandability, and any budgetary limitations.
- 3.2. Assist CONSULTANT by placing at his disposal available information pertinent to the Project.
- 3.3. Examine all studies, reports, sketches, drawings, specifications, proposals and other documents presented by **CONSULTANT**, and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of **CONSULTANT**.
- 3.4. Designate in writing a person to act as **OWNER'S** representative with respect to the services to be rendered under this Agreement. Such person shall have complete authority

to transmit instructions, receive information, interpret and define **OWNER'S** policies and decisions with respect to materials, equipment, elements and systems pertinent to **CONSULTANT'S** services.

- 3.5. Give written notice to **CONSULTANT** whenever **OWNER** observes or otherwise becomes aware of any development that affects the scope or timing of **CONSULTANT'S** services, or any defect in the work of Contractor(s).
- **3.6.** Furnish, or direct **CONSULTANT** to provide, necessary Extra Work as stipulated in Section Two (2) of this Agreement or other services as required.

## **SECTION 4 - PERIOD OF SERVICES**

- **4.1.** Time is of the essence. See "Scope of Services, Additional Requirements, Part 1, Schedule and Completion" (attached) for the detailed project schedule.
- 4.2. The provisions of this Section Four (4) and the various rates of compensation for CONSULTANT'S services provided for elsewhere in this Agreement have been agreed to in anticipation of the orderly and continuous progress of the Project through completion.

If delays result by reason of acts of the **OWNER** or approving agencies, which are beyond the control of the **CONSULTANT**, an extension of time for such delay will be considered. If delays occur, the **CONSULTANT** shall within 30 days from the date of the delay apply in writing to the **OWNER** for an extension of time for such reasonable period as may be mutually agreed upon between the parties, and if approved, the Project schedule shall be revised to reflect the extension. Such extension of time to the completion date shall in no way be construed to operate as a waiver on the part of the **OWNER** of any of its rights in the Agreement. Section 6.5, under DISPUTES, of this Agreement, shall apply in the event the parties cannot mutually agree upon an extension of time.

In the event that the overall delay resulting from the above described causes is sufficient to prevent complete performance of the Agreement within six (6) months of the time specified therein, the Agreement fee or fees shall be subject to reconsideration and possible adjustment. Section 6.5 of this Agreement shall apply in the event the parties cannot mutually agree upon an adjustment of fee.

# **SECTION 5 - PAYMENTS TO CONSULTANT**

- 5.1 Methods of Payment for Services of CONSULTANT
  - 5.1.1 For Basic Services.

OWNER shall pay CONSULTANT for Basic Services rendered a fee not exceeding <u>ninety nine thousand nine hundred and fifty three dollars</u> (\$99,953.00).

#### 5.1.2. For Extra Work.

"Extra Work" shall be paid for by the **OWNER** on the basis of a fixed fee, the amount of which shall be determined by negotiation. The **OWNER** shall have the right to negotiate alternate methods of payment for "Extra Work" if the **OWNER** determines that the fixed fee basis is not feasible. In the event the **OWNER** and the **CONSULTANT** are unable to agree upon the amount of payment for "Extra Work", then the amount of such payment shall be determined as set forth in Section 6.5, "DISPUTES" of this Agreement.

## 5.2. Times of Payment.

5.2.1. CONSULTANT shall submit monthly statements for Basic Services and Extra Work rendered. The Statements will be based upon CONSULTANT'S estimate of the proportion of the total services actually completed at the time of billing. OWNER shall respond to CONSULTANT'S monthly statements within thirty (30) days, either denying payment or making payment.

# 5.3. Other Provisions Concerning Payments.

- 5.3.1. In the event the Agreement is terminated by the OWNER without fault on the part of the CONSULTANT, the CONSULTANT shall be paid for the work performed or services rendered an amount bearing the same ratio to the total Agreement fee; as the amount of work completed or partially completed and delivered to the OWNER is to the total amount of work provided for herein, as determined by mutual agreement between the OWNER and the CONSULTANT.
- **5.3.2.** In the event the services of the **CONSULTANT** are terminated by the **OWNER** for fault on the part of the **CONSULTANT**, the **CONSULTANT** shall be paid reasonable value of the work performed or services rendered and delivered, and the amount to be paid shall be determined by the **OWNER**.
- **5.3.3.** In the event the **CONSULTANT** shall terminate the Agreement because of gross delays caused by the **OWNER**, the **CONSULTANT** shall be paid as set forth in Section 5.3.1 above.

## **SECTION 6 - GENERAL CONSIDERATIONS**

## 6.1. Termination

**6.1.1.** The obligation to provide further services under this Agreement may be terminated by either party upon seven (7) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party.

**6.1.2.** The **OWNER** reserves the right to terminate the Agreement at any time upon seven (7) days written notice to the **CONSULTANT**.

## 6.2. Ownership and Reuse of Documents.

All documents, including Drawings and Specifications, prepared by the **CONSULTANT** pursuant to this Agreement shall be delivered to and become the property of the **OWNER**. The **OWNER** shall have the right to reuse same without restriction or limitation, but without liability or legal exposure to **CONSULTANT**.

# 6.3. Legal Responsibilities and Legal Relations.

- **6.3.1.** The **CONSULTANT** shall familiarize himself with and shall at all times comply with all federal, state and local laws, ordinances, and regulations which in any manner affect the services of this Agreement.
- 6.3.2. In performing the services hereunder, the CONSULTANT and its sub-CONSULTANTS, employees, agents and representatives shall not be deemed or construed to be employees of OWNER in any manner whatsoever. Except as otherwise provided in this Agreement, the CONSULTANT shall be acting as an independent contractor. The CONSULTANT shall not hold itself out as, nor claim to be, an officer or employee of OWNER by reason hereof and shall not make any claim, demand or application to or for any right or privilege applicable to an officer or employee of OWNER. The CONSULTANT shall be solely responsible for any claims for wages or compensation by CONSULTANT'S employees, agents and representatives, including sub-CONSULTANTS, and shall save and hold OWNER harmless therefrom.
- **6.3.3.** The parties hereto agree that causes of actions between the parties shall be governed by applicable provisions of the Kentucky Revised Statues.

## 6.4. Successors and Assigns.

- **6.4.1. CONSULTANT** binds itself and his partners, successors, executors, administrators, assigns and legal representatives to this Agreement in respect to all covenants, agreements and obligations of this Agreement. **CONSULTANT** shall not assign any interest, obligation or benefit in this Agreement, nor transfer any interest in the same, whether by assignment or novation, without prior written consent of **OWNER**.
- 6.4.2. The CONSULTANT shall not subcontract more than fifty percent (50%) of the work, based upon dollar value, to be provided under this Agreement. The CONSULTANT shall obtain written approval prior to subletting or assigning any services contained in this Agreement, and consent to sublet or assign any part of this Agreement shall not be construed to relieve the CONSULTANT of any responsibility for compliance with the provisions of this Agreement.
- **6.4.3.** Nothing herein shall be construed to give any rights or benefits hereunder to anyone other than **OWNER** and **CONSULTANT**.

#### 6.5. Disputes.

Except as otherwise provided in this Agreement, any dispute concerning the amount of payment due the CONSULTANT or any dispute concerning any question of fact of any act to be performed under this Agreement, which is not disposed of by agreement between the Urban County Engineer's Office and the CONSULTANT, shall be submitted to the Commissioner, Department of Planning, Preservation and Development, Lexington-Fayette Urban County Government for review. The decision of the Commissioner as to the determination of such dispute shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, capricious, arbitrary or so grossly erroneous as necessarily to imply bad faith. Pending a final decision of a dispute hereunder, the CONSULTANT shall proceed diligently with the performance of the Agreement in accordance with the directions of the OWNER.

# 6.6. Accuracy of CONSULTANT'S Work.

The **CONSULTANT** shall be required to perform this Agreement in accordance with the degree of ordinary and reasonable skill and care usually exercised by professional engineers prevailing at the time, place and under similar conditions as the services hereunder are rendered.

The CONSULTANT shall be responsible for the accuracy of all work, even though Drawings and Specifications have been accepted by the OWNER, and shall make any necessary revisions or corrections resulting from errors and/or omissions on the part of the CONSULTANT, without additional compensation. By submission of reports, soils and subsurface information, quantities estimates, calculations and Drawings and Specifications to the OWNER, the CONSULTANT has made an incontrovertible representation that the information is accurate. Failure on the part of CONSULTANT to provide the expected level of accuracy may be grounds for the OWNER to disqualify CONSULTANT from consideration for future CONSULTANT engineering contracts.

## 6.7. Security Clause.

The **CONSULTANT** certifies that he shall not at any time release or divulge any information concerning the services covered by this Agreement to any person or any public or private organization except the **OWNER** without prior approval of the **OWNER**.

## 6.8. Access to Records.

The **CONSULTANTS** and his sub-**CONSULTANTS** shall maintain all books, documents, papers, and accounting records, and make such materials available at their respective offices at all reasonable times during the contract period and for three (3) years from the date of final payment under the contract for inspection by the **OWNER**, and copies thereof shall be furnished if requested. Failure to maintain such records for three (3) years after the date of final payment may

be grounds for the **OWNER** to disqualify the **CONSULTANT** from consideration for future **CONSULTANT** engineering contracts.

# 6.9. Risk Management Provisions, Insurance and Indemnification

## 6.9.1. Definitions

The CONSULTANT understands and agrees that the Risk Management Provisions of this Agreement define the responsibilities of the CONSULTANT to the OWNER.

As used in these Risk Management Provisions, the terms "CONSULTANT" and "OWNER" shall be defined as follows:

- **a. CONSULTANT** means the consultant and its employees, agents, servants, owners, principals, licensees, assigns and subcontractors or subconsultants of any tier.
- **b. OWNER** means the Lexington-Fayette Urban County Government and its elected and appointed officials, employees, agents, boards, assigns, volunteers, and successors in interest.

# 6.9.2. Indemnification and Hold Harmless Provision

- a. It is understood and agreed by the parties that CONSULTANT hereby assumes the entire responsibility and liability for any and all damages to persons or property caused by or resulting from or arising out of any act or omission on the part of CONSULTANT under or in connection with this agreement and/or the provision of goods or services and the performance or failure to perform any work required thereby.
- b. CONSULTANT shall indemnify, save, hold harmless and defend OWNER from and against all liability, damages, and losses, including but not limited to, demands, claims, obligations, causes of action, judgments, penalties, fines, liens, costs, expenses, interest, defense costs and reasonable attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, from or by CONSULTANT's performance or breach of the agreement and/or the provision of goods or services provided that: (a) it is attributable to personal injury, bodily injury, sickness, or death, or to injury to or destruction of property (including the loss of use resulting therefrom), or to or from the negligent acts, errors or omissions or willful misconduct of the CONSULTANT; and (b) not caused solely by the active negligence or willful misconduct of OWNER.
- c. Notwithstanding, the foregoing, with respect to any professional services performed by CONSULTANT hereunder (and to the fullest extent permitted by law), CONSULTANT shall indemnify, save, hold harmless and defend OWNER from and against any and all liability, damages and losses, including but not limited to, demands, claims, obligations, causes of action, judgments, penalties, fines, liens, costs, expenses, interest, defense costs and reasonable attorney's fees, for any damage due to death or injury to any

person or injury to any property (including the loss of use resulting therefrom) to the extent arising out of, pertaining to or relating to the negligence, recklessness or willful misconduct of **CONSULTANT** in the performance of this agreement.

- d. In the event OWNER is alleged to be liable based upon the above, CONSULTANT shall defend such allegations and shall bear all costs, fees and expenses of such defense, including but not limited to, all reasonable attorneys' fees and expenses, court costs, and expert witness fees and expenses, using attorneys approved in writing by OWNER, which approval shall not be unreasonably withheld.
- **e.** These provisions shall in no way be limited by any financial responsibility or insurance requirements, and shall survive the termination of this agreement.

#### 6.9.3. Financial Responsibility

The CONSULTANT understands and agrees that the CONSULTANT shall, prior to final acceptance of the CONSULTANT'S proposal and the commencement of any work; demonstrate the ability to assure compliance with the Indemnity Agreement and other provisions of Section 6.9 of this Agreement.

#### 6.9.4. Insurance Requirements

#### 6.9.4.1 Required Insurance Coverage

CONSULTANT shall procure and maintain for the duration of this Agreement at its cost and expense the following or equivalent insurance policies at no less than the limits shown below and cause its subcontractors to maintain similar insurance with limits acceptable to OWNER in order to protect OWNER against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by CONSULTANT.

Coverage	<u>Limits</u>
General Liability (Insurance Services Office Form CG 00 01)	\$1 million per occurrence, \$2 million aggregate or \$2 million combined single limit
Commercial Automobile Liability (Insurance Services Office Form CA 0001)	combined single, \$1 million per occurrence
Professional Liability	\$1 million per occurrence, \$3 million aggregate
Worker's Compensation	Statutory
Employer's Liability	\$1 million

The policies above shall contain the following conditions:

- a. Policy shall be obtained unless it is deemed not to apply by **OWNER**.
- b. The Professional Liability policy shall be maintained for a minimum of three years beyond the completion date of the contract, to the extent commercially available. If not commercially available, CONSULTANT shall notify OWNER and obtain similar insurance that is commercially available and acceptable to OWNER, unless OWNER waives requirement.
- c. OWNER shall be provided at least 30 days advance written notice via certified mail, return receipt requested, in the event any of the required policies are canceled or non-renewed.
- d. Said coverage shall be written by insurers acceptable to **OWNER** and shall be in a form acceptable to **OWNER**. Insurance placed with insurers with a rating classification of no less than Excellent (A or A-) and a financial size category of no less than VIII, as defined by the most current Best's Key Rating Guide shall be deemed automatically acceptable.

#### **6.9.4.2.** Renewals

After insurance has been approved by **OWNER**, evidence of renewal of an expiring policy must be submitted to **OWNER**, and may be submitted on a manually signed renewal endorsement form. If the policy or carrier has changed, however, new evidence of coverage must be submitted in accordance with these Insurance Requirements.

#### 6.9.4.3. Deductibles and Self-Insured Programs

Self-insurance programs, deductibles, and self-insured retentions in insurance policies are subject to separate approval by Lexington-Fayette Urban County Government's Division of Risk Management, upon review of evidence of CONSULTANT'S financial capacity to respond to claims. Any such programs or retentions must provide OWNER with at least the same protection from liability and defense of suits as would be afforded by first-dollar insurance coverage. If CONSULTANT satisfies any portion of the insurance requirements through deductibles, self-insurance programs, or self-insured retentions, CONSULTANT agrees to provide Lexington-Fayette Urban County Government, Division of Risk Management, the following data prior to the final acceptance of bid and the commencement of any work:

- a. Latest audited financial statement, including auditor's notes.
- **b.** Any records of any self-insured trust fund plan or policy and related accounting statements.
- c. Actuarial funding reports or retained losses.
- **d.** Risk Management Manual or a description of the self-insurance and risk management program.
- e. A claim loss run summary for the previous five (5) years.
- f. Self-Insured Associations will be considered.

#### 6.9.4.4. Verification of Coverage

**CONSULTANT** agrees to furnish **OWNER** with all applicable Certificates of Insurance signed by a person authorized by the insurer to

bind coverage on its behalf prior to final award, and if requested, shall provide **OWNER** copies of all insurance policies, including all endorsements.

## 6.9.4.5. Right to Review, Audit and Inspect

**CONSULTANT** understands and agrees that **OWNER** may review, audit and inspect any and all of its records and operations to insure compliance with these Insurance Requirements.

#### 6.9.5 Safety and Loss Control

CONSULTANT understands and agrees that OWNER is in no way responsible for the safety and property of CONSULTANT or its personnel, CONSULTANT shall comply with all applicable federal, state and local safety standards related to the performance of its work or services under this Agreement and take reasonably necessary action to protect the life, health and safety and property of its personnel, the public and OWNER in the locations and areas in which CONSULTANT is performing services under the Agreement.

#### 6.9.6 Default

CONSULTANT understands and agrees that the failure to comply with any of these insurance, safety, or loss control provisions shall constitute default and that OWNER may elect at its option any single remedy or penalty or any combination of remedies and penalties, as available, including but not limited to purchasing insurance and charging CONSULTANT for any such insurance premiums purchased, or suspending or terminating the work.

#### 6.10 Resident Services During Construction.

The **OWNER** will furnish a Resident Project Inspector.

## SECTION 7 - EQUAL EMPLOYMENT OPPORTUNITY

During the performance of this Agreement, the **CONSULTANT** agrees as follows:

- 7.1 The CONSULTANT will not discriminate against any employee or application for employment because of race, color, religion, national origin, sex, age, or handicap. The CONSULTANT will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, national origin, sex, age, or handicap. Such action shall include, but not be limited to the following: employment upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeships. The CONSULTANT agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this non-discrimination clause.
- 7.2 The CONSULTANT will, in all solicitations or advertisements for employees placed by or on behalf of the CONSULTANT, state that all qualified applicants will receive

consideration for employment without regard to race, color, religion, national origin, sex, age (between forty and seventy), or handicap.

#### **SECTION 8 - SPECIAL PROVISIONS, EXHIBITS AND SCHEDULES**

- **8.1.** This Agreement is subject to the following provisions.
  - **8.1.1.** Limits of Liability, as described in Section 6.9.2., shall be \$4,000,000.00.
  - 8.1.2. Pursuant to subparagraph 3.4 of this Agreement, OWNER has assigned Thomas Clements, PE, Municipal Engineer Sr., of the Division of Engineering, (the "OWNER'S Agent"), as the authorized agent of OWNER, to monitor, direct and review the performance of work of the CONSULTANT. Documents, data, reports and all matters associated with carrying out this Agreement shall be addressed to the OWNER'S Agent or his designee. Questions by the CONSULTANT regarding interpretations of the terms, provisions and requirements under this Agreement shall be addressed to the OWNER'S Agent or his designee. The CONSULTANT shall look only to the OWNER'S Agent or his designee for direction in its performance under this Agreement; no other direction shall be binding upon OWNER. OWNER shall respond to written requests by CONSULTANT within thirty (30) days.
- **8.2.** The following Exhibits are attached to and made a part of this Agreement:
  - **8.2.1** Exhibit A "Scope for Engineering Services", consisting of five (5) pages, plus a six (6) page map attachment.
  - **8.2.2** Exhibit B Fee proposal consisting of thirty (30) pages.
  - **8.2.3** Exhibit C "Certificate of Insurance" consisting of one (1) page.
- **8.3.** This Agreement (consisting of pages 1 to 13 inclusive), together with the Exhibits and schedules identified above constitutes the entire Agreement between **OWNER** and **CONSULTANT** and supersedes all prior written or oral understandings. This Agreement and said Exhibits and schedules may only be amended, supplemented, modified or canceled by a duly executed written instrument.
- 8.3. NO THIRD PARTY RIGHTS. This agreement does not create a contractual relationship with or right of action in favor of a third party against either OWNER or CONSULTANT.
- 8.4 UNENFORCEABLE TERMS/SURVIVABILITY. If any term or provision of this Agreement shall be found to be illegal or unenforceable, this Agreement shall remain in full force and such term or provision shall be deemed stricken. The provisions of Section 6 of this Agreement shall survive its termination.
- **8.5. NON-WAIVER.** The failure of either party to enforce any right reserved to it in this Agreement shall not be a waiver of any such right to which the party is entitled.

**IN WITNESS WHEREOF**, the parties hereto have made and executed this Agreement as of the day and year first above written.

OWNER:	CONSULTANT:
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT 200 East Main St. Lexington, KY 40507	PALMER ENGINEERING, INC. 400 Shoppers Drive Winchester, KY 40392
BY: JIM GRAY, MAYOR	BY: DAVID LINDEMAN, PRINCIPAL
ATTEST:  URBAN COUNTY COUNCIL CLERK  COMMONWEALTH OF KENTUCKY  COUNTY OF FAYETTE	
The foregoing Agreement was subscribed, swo	orn to and acknowledged before me by
David Lindeman , as the	duly authorized representative for and on
behalf of Palmer Eng., on this the 23 day of	f <u>October</u> , 2017.
My commission expires: 02/02/2021	
MACLUZIC NOTARY PU	e 121 (acide U) BLIC 10#572797
	THIN DEE M. C.

**IN WITNESS WHEREOF**, the parties hereto have made and executed this Agreement as of the day and year first above written.

OWNER:	CONSULTANT:
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT 200 East Main St. Lexington, KY 40507	PALMER ENGINEERING, INC. 400 Shoppers Drive Winchester, KY 40392
BY:	BY: ML DAVID LINDEMAN, PRINCIPAL
ATTEST:	
URBAN COUNTY COUNCIL CLERK COMMONWEALTH OF KENTUCKY COUNTY OF FAYETTE	
	sworn to and acknowledged before me by as the duly authorized representative for and on
behalf of, on this the	
My commission expires:	
NOTAR'	Y PURLIC

## Scope of Engineering Services Wilson Downing Sidewalk

This Scope of Engineering Services provides a minimum set of guidelines, tasks, and activities for professional engineering and registered land surveying services (Consultant), to design sidewalk, curb, gutter and drainage improvements along various sections of Wilson Downing Road. The Scope of Services includes topographic and boundary surveys, preliminary and final design, preparation of easement and right-of-way drawings, and associated funding and regulatory paperwork.

The design project will be overseen by the Lexington-Fayette Urban County Government, Division of Engineering (DOE). The project is primarily funded through a Transportation Alternatives Program (TAP) grant, which is administered through the Kentucky Transportation Cabinet Office of Local Programs (KYTC OLP). Engineering will be procured through the KYTC Statewide Consultant Contract.

#### **Background**

Various gaps exist in the sidewalk network on Wilson Downing Rd. creating an inconsistent and often unsafe pedestrian condition. This project will involve the addition of approximately 6,080 feet of sidewalk with curb and gutter along various section of Wilson Downing Rd:

- Nicholasville Rd to Dartmouth Dr (Southern Side)
- Camelot Dr to Midblock Near Creel Ct (Northern Side)
- Midblock Near Allante Brook Ct to Ridgepoint Run (Northern Side)
- Midblock Near Allante Brook Ct to Midblock Near Tates Creek Centre Dr (Southern Side)
- Walden Dr to Tates Creek Centre Dr (Northern Side)

The new sidewalk can likely be constructed within existing ROW. However, it is anticipated that acquisition of approximately fifteen temporary construction easements will be necessary.

Two small sections of the project appear to be within a Zone AE floodplain.

The culvert over Tates Creek adjacent to Tates Creek Centre Drive is currently in the planning and funding stage for replacement. Design will likely incorporate pedestrian facilities on the north side of the bridge. The engineer shall coordinate with the DOE to ensure the designs are contiguous.

The LFUCG Division of Water Quality will be replacing the stream culvert west of Ridgeport Run which will incorporate sidewalks across the culvert on both sides of the street. The Engineer shall coordinate with DWQ to ensure the designs are contiguous.

#### **Scope of Services**

## 1. Project Initiation and Review of Existing Information

- 1.1. Meet with LFUCG staff (DOE and Traffic Engineering) to discuss the project requirements and proposed Scope of Work. The meeting shall include project site visits with the DOE.
- 1.2. Review all project related information as provided by DOE. Obtain available LFUCG GIS data for the area, mapping including parcel lines, aerial photography, and existing infrastructure.

#### 2. Field Surveys and Preliminary Design

- 2.1. Conduct field surveys with appropriate referencing to locate topographic features not shown on existing mapping. Confirm critical locations and elevations necessary for design including but not limited to existing roadway, storm sewer features and other utilities.
- 2.2. Research all deeds, plats and other property records to identify property lines, right-of-ways and easements.
- 2.3. Perform boundary surveys and set corner pins (or offsets) as necessary to define the physical limits of properties from which right of way must be purchased (if necessary).
- 2.4. Prepare a topographic survey of Project area.
- 2.5. Develop preliminary sidewalk, curb, gutter and drainage improvement plans. Plans shall comply with applicable ADA standards and shall include information on driveway entrance limits, pedestrian crossings, and the extents of construction. Sidewalk plans shall consider the existing drainage to ensure water is not retained behind the new sidewalk, existing property lines, existing utilities/utility conflicts, and/or other features or improvements that may impact construction costs. Design shall include drainage calculations for storm sewer sizing.
- 2.6. Prepare a Preliminary Design Technical Memorandum documenting the following for each Project:
  - Proposed sidewalk, curb, gutter and drainage plan;
  - Identification of all utility conflicts and proposed solutions;
  - List of impacted properties and property owners;
  - List of required easements and road right-of-way taking and encroachment (Determination of existing land rights shall be limited to recorded easements and right-of-way. For these purposes, prescriptive easements will be ignored.);

- List of required permits and respective agencies from which the permit(s) will be secured;
- List of agencies that will require notifications and/or approvals; and
- Preliminary Opinion of Construction Costs.
- 2.7. If requested, meet with the DOE to review the Preliminary Design Technical Memorandum. Consultant shall be responsible for meeting agendas, handouts, and meeting summaries.

## 3. Final Design

# Note: Task 3: Detailed (final) Design shall not begin until written authorization is received from DOE.

- 3.1 Prepare Contract Drawings. At a minimum, the drawings shall include the following sheets:
  - Cover sheet with location map, sheet index, etc;
  - Plans scaled to 1" = 20'. Plans shall show all finalized features and detailed information as required for the preliminary plan;
  - Detail sheets, as required to fully convey the intent of the project and how to construct it; and
  - Cross sections every 50 feet and at driveway entrances.
  - A General Summary Sheet
- 3.2 Submit drawings to LFUCG DOE and KYTC OLP for review and comment, and revise drawings accordingly.
- 3.3 Correspond and meet with all impacted utility companies and regulatory agencies as required for this project. The Consultant may attend bi-monthly LFUCG Utility Coordination meetings as deemed useful.
- 3.4 Prepare an Engineers Estimate (EE).
- 3.5 Prepare paperwork necessary for TIP funding, including LDA Design Review Checklist (LDRC), Project Development Checklist (PDC), Utility and Rail Note, Traffic Management Plan, etc.
- 3.6 Prepare a Bid Proposal. Note: LFUCG will furnish the front-end contract documents and their standard technical specifications. Consultant will need to prepare specifications for any special materials if used for this project.
- 3.7 Coordinate with the KYTC OLP to provide supporting data for the Environmental Review. OLP will take the lead on getting the Environmental Document and Section 106(historic) review.

3.8 Prepare, submit applications, including public notices, and secure all required permits including but not limited to those listed in the Preliminary Design Technical Memorandum, or identified above.

Note: Contractor selection and construction administration will be performed solely by LFUCG. However, at any time during construction, the Consultant shall be available to address any questions that arise concerning the accuracy or intent of his work. Time to address potential questions should be incorporated into the final design fee.

#### 4. Easement and Right-of-Way Acquisition

- 4.1. Consultant shall prepare all paperwork necessary for temporary easement acquisition, including a metes and bounds description, except for correspondence to affected property owners.
- 4.2. Consultant shall prepare all paperwork necessary for easement acquisition and right-of-way encroachment and/or taking, except for correspondence to affected property owners.

Notes: LFUCG will take the lead on contact with affected property owners.

At a minimum, Consultant shall comply with all criteria and standards as set forth in 201 KAR 18:150, *Standards of Practice*.

LFUCG will conduct negotiations with property owners for easements and right-of-way, and will bear any associated costs, including appraisals.

#### **Additional Requirements**

#### 1. Schedule and Completion

The contract time to complete Tasks 1-2, is 120 calendar days from the date of the Notice to Proceed.

The contract time to complete Tasks 3-4, is 90 calendar days from acceptance of the Preliminary Design.

Within the Price Proposal, the Consultant shall provide a schedule showing milestones, deliverables and the number of calendar days into the contract period that each milestone occurs.

#### 2. Deliverables

- Two (2) copies of the Preliminary Design Technical Memorandum.
- Five (5) full-size (22 x 34) sets of final plans.
- Two (2) half-size (11 x 17) sets of final plans for each Project.
- CD or flash drive with:
  - Bid-Set Plans in AutoCad (.dwg) format
  - Bid-Set Plans (stamped and signed) in Acrobat (.pdf) format
- Easement descriptions and related paperwork.

#### 3. General Notes

- Drawings shall be prepared in AutoCad format and according to LFUCG standards.
- Consultant is not responsible for:
  - Traffic and pedestrian signal design. LFUCG will provide details to be incorporated into the plans as needed.
  - Historical/Cultural Resources studies, Biological Resources studies, etc., if required for the Environmental.

#### **Attachments:**

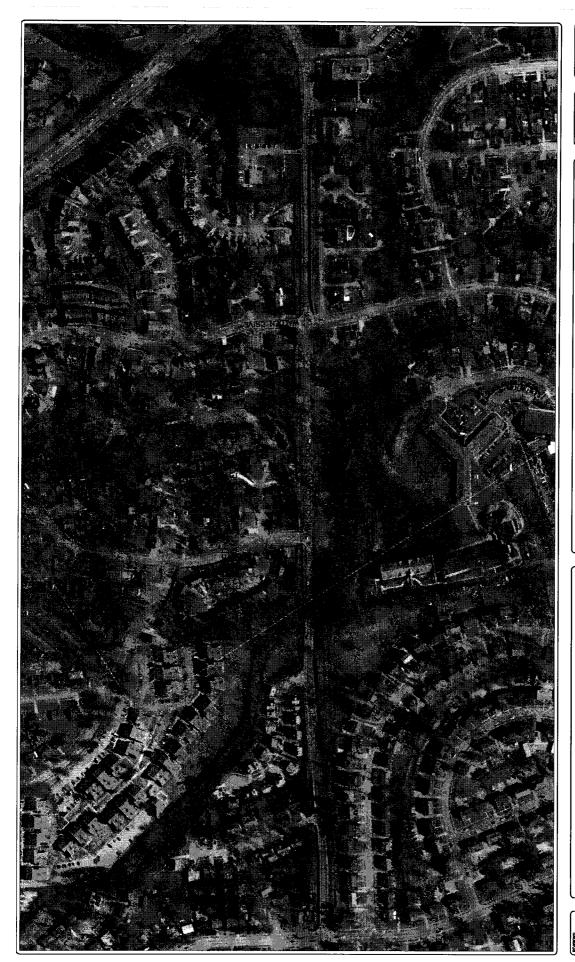
- Plan View of Project Area Wilson Downing Sidewalk
- GIS Map of Sewers (3 Sheets)
- GIS Map of FEMA Flood Zone
- Clearinghouse Letter 10/3/16
- Plan View of Wilson Downing Road Drainage Improvements



WILSON DOWNING SIDEWALK CONNECTIONS Lexington, Fayette County, Kentucky

> LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT DEPT. OF PLANNING, PRESERVATION, DEVELOPMENT DIVISION OF ENGINEERING

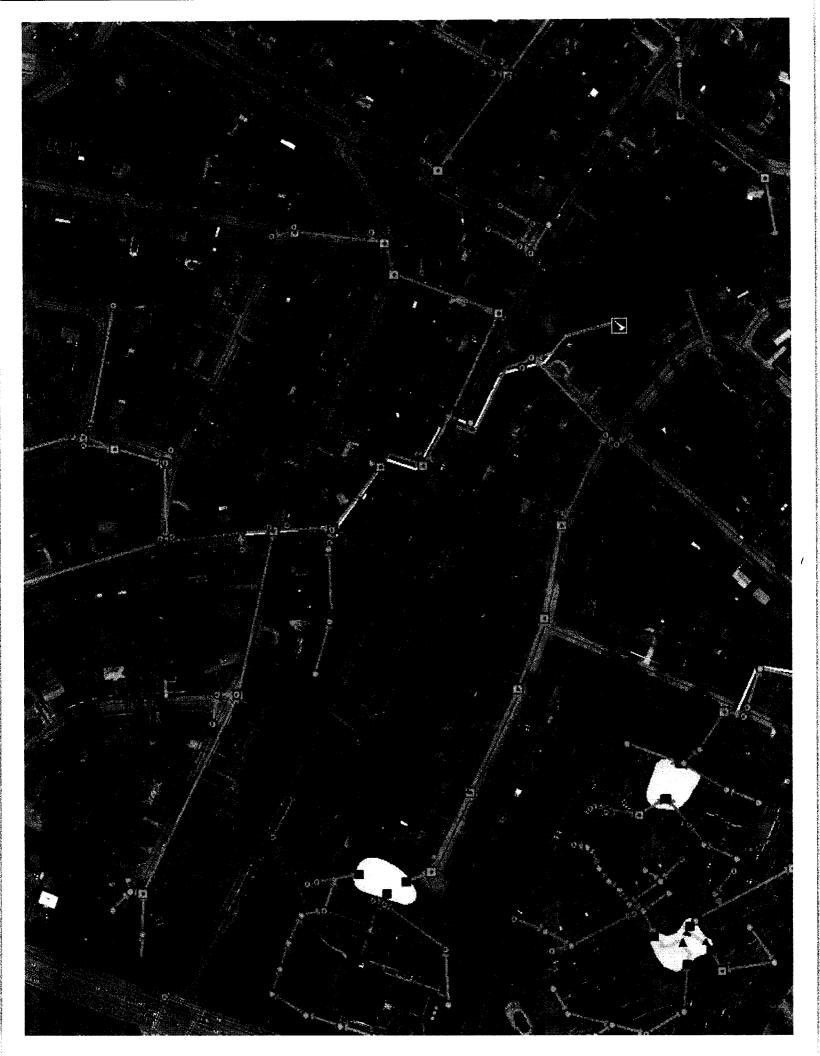
LEXINGTON



WILSON DOWNING SIDEWALK CONNECTIONS Lexington, Fayette County, Kentucky

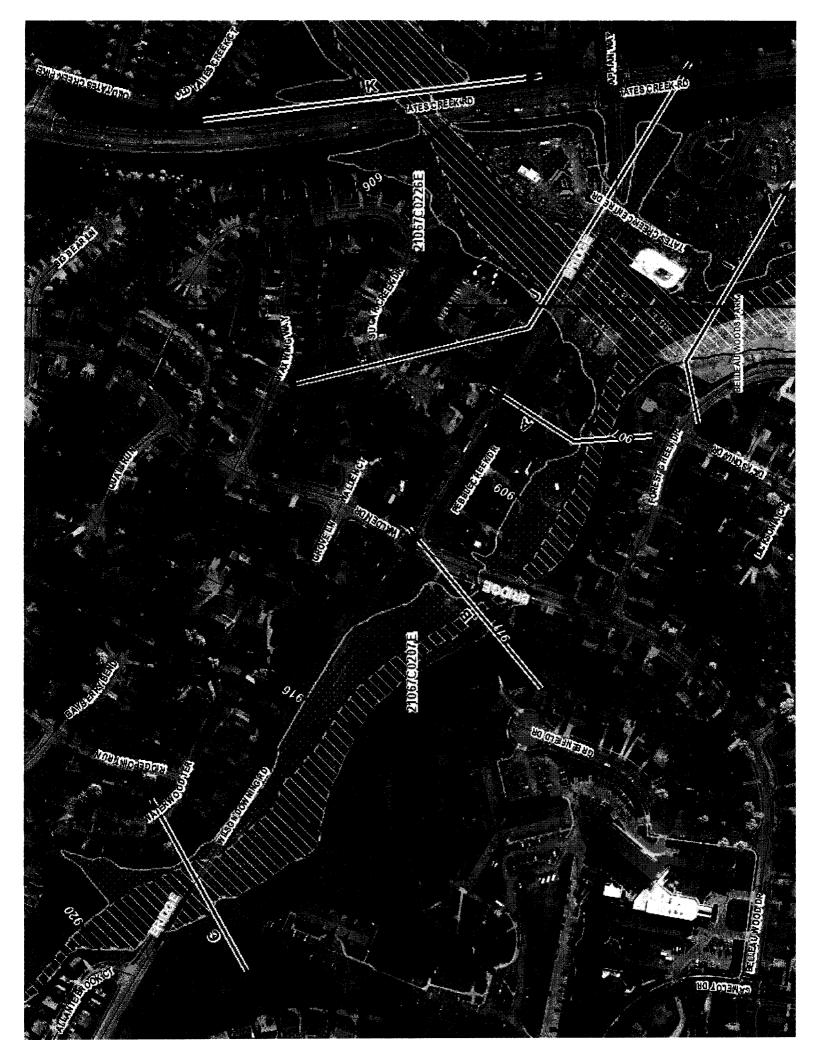
PLANS AND SPECIFICATIONS PREPARED BY:

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT DEPT. OF PLANNING, PRESERVATION, DEVELOPMENT DIVISION OF ENGINEERING











September 5, 2017

Eric Pelfrey, P.E. Director Division of Professional Services KY Transportation Cabinet 200 Mero Street Frankfort, KY 40622

RE: Wilson Downing Sidewalks

Fayette County

Agreement No. 2016-02-2, Letter Agreement No. 5

Fee Proposal

Dear Mr. Pelfrey:

Attached is our negotiated fee for preparing plans for the West Loudon Improvements in Fayette County. This fee proposal under the Statewide LPA contract includes:

- Palmer Engineering Fee Proposal
- · Proposed Man-Hour Worksheet
- Description of Project Units
- Negotiation Minutes

Our proposed schedule and milestone dates for this modification include:

Preliminary Plan Review December 1, 2017 60 percent

Final Plan Review April 15, 2018 90 percent

Proposal Plans for Letting May 15, 2018 100 percent

Please contact us at your earliest convenience if you have questions or need additional information.

Sincerely,

Stephen Sewell, PE, PTOE

**Project Manager** 

**Attachments** 

## Minutes of Negotiations Meeting September 5, 2017

Fayette County Wilson Downing Sidewalks Item No. 7-3203.00

## Participants:

- 1. Mark Feibes LFUCG
- 2. Brad Frazier KYTC Central
- 3. Shane Tucker KYTC D-7
- 4. Stephen Sewell Palmer Engineering Company

Palmer Engineering submitted man-hours for the development of Wilson Downing Sidewalks Improvements in Fayette County on August 18, 2017.

The cor	nsultant originally proposed the following	g man-hours on August 18, 2017:
	Survey	127 hours
	Line and Grade	115 hours
	Utility Coordination	4 hours
	Right of Way Plans	39 hours
	Final Plans	341 hours
	Meetings	29 hours
	Public Involvement	8 hours
	Total Proposed	663 hours
	tember 1, 2017, the hours were accepted d by Palmer Engineering:	by KYTC. The following man-hours were
accepte	Survey	127 hours
	Line and Grade	115 hours
	Utility Coordination	4 hours
	Right of Way Plans	39 hours
	Final Plans	341 hours
	Meetings	29 hours
	Public Involvement	8 hours
	Total Proposed	663 hours
	Total Proposed	003 Hours
1.	Proposed Fee: \$ 99,953.00	
2.	TIME OF COMPLETION	
	Preliminary Plan Review	December 1, 2017
	Final Plan Review	April 15, 2018
	Proposal Plans for Letting	May 15, 2018
3.	PERCENTAGE OF PAYMENT	
	Preliminary Plan Review	60 Percent
	Final Plan Review	90 Percent
	Proposal Plans for Letting	100 Percent
		Alut
DEPA	RTMENT OF HIGHWAYS	PALMER ENGINEERING COMPANY
DATE		September 5, 2017 DATE

# **12**

#### **KENTUCKY TRANSPORTATION CABINET**

**Department of Highways** 

Rev.

TC 40-2 03/2017

DIVISION OF PROFESSIONAL SERVICES

Page

1 of 1

	ENGINEERIN		LATED SERVI		OPOSAL Page		1 01 1
SECTION 1	: PROJECT INFORMATION						
DATE:	September 5, 2017	COUNTY:	Fayet	te	ITEM #:	N	I/A
PROJECT:	Wilson Downing Sidewalk						
SECTION 2	: BUDGET INFORMATION						
			PROPOSED	NEGOTIATED	AVERAGE	ES	TIMATED
	FEE CONSIDERATIONS		MAN HOURS	MAN HOURS	RATE		COST
A. SURVEY			127	127	\$44.36	\$	5,634
B. PRELIMIN	ARY LINE AND GRADE		115	115	\$43.64	\$	5,019
C. UTILITY R	ELOCATION COORDINATIO	V	4	4	\$43.64	\$	175
D. RIGHT OF	F WAY PLANS		39	39	\$43.64	\$	1,702
E. FINAL PLA	ANS		341	341	\$43.64	\$	14,881
F. MEETING			29	29	\$55.16	\$	1,600
G. PUBLIC II	NVOLVEMENT		8	8	\$55.16	\$	441
						\$	•
						\$	-
						\$	
	TOTAL PRODUCTION HOU	RS	663	663	\$ 44.42		
					RECT PAYROLL	\$	29,452
				OVERHEA	<u> </u>	\$	51,765
				PROFI		\$	12,183
			C	OST OF MONE	Y ( 0.52% )	\$	153
		DIRECT CO	STS			A	MOUNT
See Attache	ed						\$6,400
				TOTAL	DIRECT COSTS	\$	6,400
	***************************************	CHECONCHI	FARITC				
		SUBCONSULT	IANIS			A	MOUNT
	***			TOTAL SUBC	ONSULTANTS	\$	-
				TOTAL P	ROPOSED FEE	\$	99,953
						ļ <del>Ť</del>	
SECTION 3	: SIGNATURE						
FIRM NAM	IE: Palmer Engineering			SIGNED BY:	Stephen Sev	vell	
	###		Vice Presider	nt	9-	·5-20	17
	CONSULTANT SIGNATURE			TITLE		D/	ATE
PROF	ESSIONAL SERVICES SIGNAT	TURE	•	TITLE		D/	ATE
		*******					

		PRODUCTION-HOUR W	VORK	SHEE	(revise	ed 7/14)	
CO	UNTY	Fayette		PROJE	CT TYPE		
	UTE	Wilson Downing		CONSU			PALMER
DES		Wilson Downing Sidewalk		REVIEV			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	<del></del>	TVIII STATE OF THE			RED BY		SDS
ITE	M NO			DATE	ILD DI		
		SURVEY		, 5,,,=		,	
No.		ITEM	CREW	UNIT		HRS/UNIT	
125		RECONNAISSANCE					
1	Cont	rol - (existing)	1	Mile	1.1	4	4
2		ies - (data gathering, identification & contact)	1	No.	6	1	6
3		nage - (sink holes, streams, pipes, etc.)	1	Mile	1.1	4	4
	1	CONTROL		_ <del>                                    </del>			
4	Horiz	zontal	2	Mile	1.1	8	18
5	Verti		2	Mile	1.1	8	18
6		ess data	1	Mile	1.1	8	9
	1	PLANIMETRIC SURVEY		1			
7	Plan	imetric location (complete)	2	Mile	1.1	8	18
8		surface Utility Engineering, Quality Levels C & D	1	Mile	1.1	8	9
9		surface Utility Engineering, Quality Level B	1	LS			0
10		surface Utility Engineering, Quality Level A	1	LS			0
11		ess data	1	Mile			0
	1	TERRAIN SURVEY					-
12	DTM	data collection (Items 11-18 not required if used)	2	Acre	4	4	32
13		y terrain model accuracy	2	Mile			0
14	Tie-i		2	No.			0
15		nage situations survey (Bridge)	2	No.			0
16		nage situations survey (Culvert)	2	No.			0
17		nage pipe section (non-situation size)	2	No.			0
18		d plain data	2	No.			0
19		oad Surveys	2	No.			0
20		tional necessary DTM data (specify pickup or update)	2	Acre			0
21		ess data	1	Mile	1.1	4	4
	1. 100	ESTABLISH PROPERTY LINES & OWNERSHIP	-	1			-
22	Cont	act & Interview Property Owners	1	Parcel			0
23		I tie property lines/corners	1	Parcel	10	0.5	5
	11 1010	STAKING	•	1. 4.301		<b>J.</b>	
24	Stak	e centerlines, approaches, detours	2	Mile			0
25		e core holes - structures (unit is per structure)	2	No.			0
26		e core holes - roadway (unit is per core hole)	2	No.			0
	Joran	SURVEY MISCELLANEOUS					
27	Dete	ermine roadway elevations (Crown and EP)	2	Mile			0
28		ronmental areas	2	No.		•	0
29	1 -1141	Tommoniai aroao		<del>                                     </del>			0
23		CHDVEV TOTAL					127
		SURVEY TOTAL					121

PRODUCTION-HOUR WORK	SHEE	T (revise	d 7/14)	
COUNTY Fayette		CT TYPE		
ROUTE Wilson Downing		ULTANT		PALMER
DESC Wilson Downing Sidewalk		WED BY		77(20)21(
		ARED BY		SDS
ITEM NO.	DATE			
PRELIMINARY LINE AND GRADE				
No. ITEM	UNIT		HRS/UNIT	
30 Computer setup	LS	1	2	2
31 Prepare existing manuscripts	Mile			0
32 Establish approximate property lines and ownership	Parcel		0.5	ō
33 Study and develop typical sections	No.	1	2	2
34 Study and develop horizontal alignments	Mile	1,1	20	22
35 Study and develop vertical alignments	Mile	1.1	20	22
36 Create and evaluate proposed roadway models	Mile	1.1	40	44
37 Design entrances/Tie-ins	No.	12	0.5	6
38 Pre-size pipes (all alternates)	No.	10	0.5	5
39 Pre-size culverts (all alternates)	No.			0
40 Pre-size bridges (all alternates)	No.			0
41a Conduct Traffic Engineering Analysis (Basic; HCM Procedures)	Int			0
41b Conduct Traffic Engineering Analysis (Advanced; Micro-simulation)	Int		•	0
42 Study and development of interchange	No.			0
43 Study and development of intersection	No.			0
44 Study and develop maintenance of traffic plan	LS			0
45 Plot/print copies of plans for team meeting and inspections	LS	1	4	4
46 Calculate preliminary quantities and develop cost estimates	Alt.	1	8	8
47 Revise plans and estimates	LS			0
48 Preliminary Right of Way with taking areas	Parcel			0
49 Prepare Design Executive Summary	LS			0
50 Develop/document "Avoidance Alternatives to Water Related Impa	cts LS			0
PRELIMINARY LINE & GRADE MISCELLANEOUS				
51	I			0
52				0
53				0
54	<b></b>			0
55				0

		PRODUCTION-HOUR	AACIVIV		- (	ed 7/14)	
		Fayette		PROJ	ECT TYPE		<del></del>
RC	UTE	Wilson Downing		CONS	ULTANT		PALMER
DE	SC	Wilson Downing Sidewalk		REVIE	WED BY		
				PREP	ARED BY		SDS
ITE	M NO	•		DATE			
		UTILITY COORDINATION					
No.		ITEM	PERSONS	UNIT		HRS/UNIT	
56	Utility	y Coordination Meeting	1	No.	2	2	
57	Deve	elop Utility Relocation Layout Sheets (1"=200')		Mile			(
58	Deve	elop Utility Relocation Plans (1"=50")		Mile			
		UTILITY COORDINATION MISCELLANEOUS		<u></u>			
59							
		LITH ITV OCCUPINATION TOTAL					
		UTILITY COORDINATION TOTAL					4
		RIGHT OF WAY PLANS		,			
No.				UNIT		HRS/UNIT	
No. 60		RIGHT OF WAY PLANS		UNIT		HRS/UNIT	
	Deed	RIGHT OF WAY PLANS		Parcel		0.5	
60	Deed	RIGHT OF WAY PLANS  ITEM  Tresearch  Dish property and ownership		Parcel Parcel	5	0.5 0.5	C
60 61	Deed Estab	RIGHT OF WAY PLANS		Parcel	5	0.5	(
60 61 62	Deed Estab Calcu Prepa	RIGHT OF WAY PLANS  ITEM  I research plish property and ownership ulate Right of Way		Parcel Parcel Parcel	5 5 5	0.5 0.5 1	5
60 61 62 63	Deed Estab Calcu Prepa Comp	RIGHT OF WAY PLANS  ITEM I research blish property and ownership ulate Right of Way are legal descriptions		Parcel Parcel Parcel Parcel	5	0.5 0.5 1 1	( 5 5
60 61 62 63 64	Deed Estab Calcu Prepa Comp	RIGHT OF WAY PLANS  ITEM I research blish property and ownership ulate Right of Way are legal descriptions plete Right of Way summary sheet		Parcel Parcel Parcel Parcel Parcel	5 5	0.5 0.5 1 1	5 5 5
60 61 62 63 64 65	Deed Estab Calcu Prepa Comp Gene Prepa Right	RIGHT OF WAY PLANS  ITEM  I research  Dish property and ownership  Late Right of Way  are legal descriptions  Delete Right of Way summary sheet  Brate Right of Way strip map (scale 1" = 200")  The are Right of Way Plans Submittal  To of Way revisions after Right of Way submittal		Parcel Parcel Parcel Parcel Parcel Sheet	5 5	0.5 0.5 1 1 1 4	(
60 61 62 63 64 65 66	Deed Estate Calcu Prepa Comp Gene Prepa Right Deed	RIGHT OF WAY PLANS  ITEM  I research  Dish property and ownership  Late Right of Way  are legal descriptions  Delete Right of Way summary sheet  erate Right of Way strip map (scale 1" = 200')  are Right of Way Plans Submittal  of Way revisions after Right of Way submittal  Research for Existing Alignments		Parcel Parcel Parcel Parcel Parcel Sheet LS	5 5	0.5 0.5 1 1 1 4	5 5 5 8 4
60 61 62 63 64 65 66 67 68	Deed Estat Calcu Prepa Comp Gene Prepa Right Deed	RIGHT OF WAY PLANS  ITEM  I research  Dish property and ownership  ulate Right of Way  are legal descriptions  plete Right of Way summary sheet  erate Right of Way strip map (scale 1" = 200")  are Right of Way Plans Submittal  of Way revisions after Right of Way submittal  Research for Existing Alignments  Research for Existing Parcels		Parcel Parcel Parcel Parcel Parcel Sheet LS LS	5 5	0.5 0.5 1 1 1 4	(
60 61 62 63 64 65 66 67	Deed Estat Calcu Prepa Comp Gene Prepa Right Deed	RIGHT OF WAY PLANS  ITEM  I research Dish property and ownership Ulate Right of Way are legal descriptions Dete Right of Way summary sheet Perate Right of Way strip map (scale 1" = 200") are Right of Way Plans Submittal of Way revisions after Right of Way submittal Research for Existing Alignments Research for Existing Parcels are Legal Descriptions for Right of Way transfer		Parcel Parcel Parcel Parcel Parcel Sheet LS LS LS	5 5	0.5 0.5 1 1 1 4	(
60 61 62 63 64 65 66 67 68 69 70	Deed Estab Calcu Prepa Comp Gene Prepa Right Deed Deed	RIGHT OF WAY PLANS  ITEM  I research  Dish property and ownership  Ulate Right of Way  are legal descriptions  plete Right of Way summary sheet  Erate Right of Way strip map (scale 1" = 200")  are Right of Way Plans Submittal  of Way revisions after Right of Way submittal  Research for Existing Alignments  Research for Existing Parcels  are Legal Descriptions for Right of Way transfer  R/W PLANS MISCELLANEOUS		Parcel Parcel Parcel Parcel Parcel Sheet LS LS Parcel	5 5	0.5 0.5 1 1 1 4	(
60 61 62 63 64 65 66 67 68 69 70	Deed Estab Calcu Prepa Comp Gene Prepa Right Deed Deed	RIGHT OF WAY PLANS  ITEM  I research Dish property and ownership Ulate Right of Way are legal descriptions Dete Right of Way summary sheet Perate Right of Way strip map (scale 1" = 200") are Right of Way Plans Submittal of Way revisions after Right of Way submittal Research for Existing Alignments Research for Existing Parcels are Legal Descriptions for Right of Way transfer		Parcel Parcel Parcel Parcel Parcel Sheet LS LS Parcel	5 5	0.5 0.5 1 1 1 4	5 5 5 8 4 0 0 0
60 61 62 63 64 65 66 67 68 69 70	Deed Estab Calcu Prepa Comp Gene Prepa Right Deed Deed	RIGHT OF WAY PLANS  ITEM  I research  Dish property and ownership  Ulate Right of Way  are legal descriptions  plete Right of Way summary sheet  Erate Right of Way strip map (scale 1" = 200")  are Right of Way Plans Submittal  of Way revisions after Right of Way submittal  Research for Existing Alignments  Research for Existing Parcels  are Legal Descriptions for Right of Way transfer  R/W PLANS MISCELLANEOUS		Parcel Parcel Parcel Parcel Parcel Sheet LS LS Parcel	5 5 2 1	0.5 0.5 1 1 1 4 4	0 0 5 5 5 5 8 4 0 0 0 0

		PRODUCTION-HOUR WO	RKSHEE	(revise	ed 7/14)	
COL	JNTY	Fayette	PROJE	CT TYPE		
	JTE	Wilson Downing		JLTANT		PALMER
DES		Wilson Downing Sidewalk		WED BY		
			PREPA	RED BY		SDS
ITE	ON N		DATE			
	·· · · · · · · · · · · · · · · · · · ·	FINAL PLAN PREPARATION				
No.		ITEM	UNIT		HRS/UNIT	
80	Com	puter setup	LS	1	2	2
81		ate existing topography and terrain model	Mile			0
82		ne alignments (horizontal & vertical)	Mile	1.1	8	9
83		elop pavement design	No.			0
84		ize templates & transitions	No.			0
85	Deve	elop final roadway model	Mile	1.1	40	44
86		elop proposed design	Mile	1.1	40	44
87		erate plan sheets (scale 1" = 20')	Sheet	7	4	28
88		erate profile sheets (scale 1" = 20")	Sheet	7	4	28
89	Deta	il cross sections (scale 1" = 5')	No.	120	0.5	60
90	Desig	gn entrances	No.	12	1	12
91		se roadway plans from soils report	Mile			0
		DRAINAGE				
92	Deve	elop pipe sections (< 54")	No.	5	2	10
93		elop drainage system map	Mile	1.1	8	9
94		elop drainage situation (bridge)	No.			0
95		elop drainage situation (culvert)	No.			0
96		elop blue line stream channel change ( => 200')	No.			0
97		nage analysis (entrance pipes)	No.			0
98		nage analysis (A < = 200 acres)	No.	5	2	10
99		nage analysis (200 acres < A < 1.0 sq. mile)	No.			0
100	Drair	nage analysis (A = > 1.0 sq. mile) level 1 analysis	No.			0
101		nage analysis (A = > 1.0 sq. mile) level 2 analysis	No.			0
102		nage analysis (A = > 1.0 sq. mile) level 3 analysis	No.			0
103		cial drainage studies	No.			0
104		dway ditches and channels	Mile			0
105	Deve	elop Erosion Control Plan	Mile	1.1	8	9
		spacing calculations	No.		1	0
		m sewers calculations	No.		1	0
		orm scour analysis	No.			0
		mble preliminary and final drainage folders	LS			0
		are advanced situation folder - bridge	No.			0
		are advanced situation folder - culvert	No.			0
		DRAINAGE MISCELLANEOUS	•			
112						. 0
113						0
114						0
115						0

PRODUCTION-HOUR WOR	RKSHEET	(revise	ed 7/14)	
COUNTY Fayette	PROJEC	T TYPE		
ROUTE Wilson Downing	CONSU			PALMER
DESC Wilson Downing Sidewalk	REVIEW			
J. J	PREPAR			SDS
ITEM NO.	DATE	1255.		
FINAL PLAN PREPARATION (Continued	•			
No. ITEM	UNIT		HRS/UNIT	
116 Prepare layout sheet	LS	1	2	2
117 Prepare typical sections	No.	1	2	2
118 Prepare Interchange geometric approval	No.			0
119 Prepare intersection geometric approval	No.			0
120 Prepare coordinate control sheet	Mile	1.1	4	4
121 Prepare elevation developments	No.			0
122 Prepare striping plan	Sheet			0
123 Calculate final quantities	Mile	1.1	12	13
124 Complete general summary	LS	1	4	4
125 Complete paving summary	LS			0
126 Complete drainage summary	LS	1	4	4
127 Complete pavement under-drain summary	LS			0
128 Prepare cost estimate	LS	1	4	4
129 Plot/print copies of plans	LS	1	4	4
130 Plan revisions	Mile	1.1	12	13
131 Prepare final construction plans submittal	LS	1	4	4
MAINTENANCE OF TRAFFIC				
132 Write maintenance of traffic notes (TCP)	LS	1	6	6
133 Prepare construction phasing plans (traffic control detail sheets)	Sheet			0
134 Develop diversion plan sheets	Sheet			0
135 Develop diversion profile sheets	Sheet			0
136 Develop diversion cross sections	No.			0
137 Develop temporary drainage	No.			0
FINAL PLANS MISCELLANEOUS				
138 Prepare bid submittal documents (LDRC, PDC, Specs)	LS	1	16	16
139				0
140				0
141				0
142				0
143				0
FINAL PLANS TOTAL				341

	PRODUCTION-HOUR	WORK	SHEET	revise	ed 7/14)	
COUNT	Y Fayette		PROJEC	T TYPE		
ROUTE	Wilson Downing		CONSU	LTANT		PALMER
DESC	Wilson Downing Sidewalk		REVIEW	/ED BY		
			PREPAR	RED BY		SDS
ITEM NO	D		DATE			
	MEETINGS					
No.	ITEM	PERSONS	UNIT		HRS/UNIT	
150 Prel	lim. line and grade inspection	2	No.	1	4	
151 Dra	inage inspection	2	No.			
152 Fina	al inspection	2	No.	2	4	10
153 Misc	c. project coordination meetings	1	No.	5	1	
154 Proj	ject team meetings	2	No.			(
	MEETINGS MISCELLANEOUS					
155 Valu	ue Engineering Study		LS			(
156 Con	nstructability Review		LS			(
	MEETINGS TOTAL					29
	MEETINGS TOTAL				^	
No.   ITE	PUBLIC INVOLVEMENT	PERSONS	UNIT		HRS/UNIT	
	PUBLIC INVOLVEMENT	PERSONS	<u> </u>		HRS/UNIT	
160 Dev	PUBLIC INVOLVEMENT  M  relop and Maintain Mailing List	PERSONS	UNIT LS No.		HRS/UNIT	
160 Dev 161 Prej	PUBLIC INVOLVEMENT  M  velop and Maintain Mailing List pare for Advisory Committee/Officials Meeting		LS		HRS/UNIT	(
160 Dev 161 Prej 162 Atte	PUBLIC INVOLVEMENT  M  relop and Maintain Mailing List pare for Advisory Committee/Officials Meeting and Advisory Committee/Officials Meeting	1	LS No.		HRS/UNIT	(
160 Dev 161 Prej 162 Atte 163 Prej	PUBLIC INVOLVEMENT  M  velop and Maintain Mailing List pare for Advisory Committee/Officials Meeting	1	No.		HRS/UNIT	(
160 Dev 161 Pre 162 Atte 163 Pre 164 Atte	PUBLIC INVOLVEMENT  M  relop and Maintain Mailing List pare for Advisory Committee/Officials Meeting and Advisory Committee/Officials Meeting pare for Public Meetings/Hearings	1 3	No. No. No.		HRS/UNIT	(
<ul><li>160 Dev</li><li>161 Prej</li><li>162 Atte</li><li>163 Prej</li><li>164 Atte</li><li>165 Prej</li></ul>	PUBLIC INVOLVEMENT  M relop and Maintain Mailing List pare for Advisory Committee/Officials Meeting end Advisory Committee/Officials Meeting pare for Public Meetings/Hearings end Public Meetings/Hearings	1 3	No. No. No. No.		HRS/UNIT	
160 Dev 161 Pre 162 Atte 163 Pre 164 Atte 165 Pre 166 Pro	PUBLIC INVOLVEMENT  M  relop and Maintain Mailing List pare for Advisory Committee/Officials Meeting and Advisory Committee/Officials Meeting pare for Public Meetings/Hearings and Public Meetings/Hearings pare and Distribute Newsletter perty owner coordination  PUBLIC INVOLVEMENT MISCELLANEOUS	1 3	No. No. No. No. No. No. No.		HRS/UNIT	
160 Dev 161 Pre 162 Atte 163 Pre 164 Atte 165 Pre 166 Pro	PUBLIC INVOLVEMENT  M  velop and Maintain Mailing List pare for Advisory Committee/Officials Meeting and Advisory Committee/Officials Meeting pare for Public Meetings/Hearings and Public Meetings/Hearings pare and Distribute Newsletter perty owner coordination	1 3	No. No. No. No. No. No. No.	5	HRS/UNIT	()
160 Dev 161 Pre 162 Atte 163 Pre 164 Atte 165 Pre 166 Pro	PUBLIC INVOLVEMENT  M  relop and Maintain Mailing List pare for Advisory Committee/Officials Meeting and Advisory Committee/Officials Meeting pare for Public Meetings/Hearings and Public Meetings/Hearings pare and Distribute Newsletter perty owner coordination  PUBLIC INVOLVEMENT MISCELLANEOUS	1 3	No. No. No. No. No. No. No.	5		
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PRODUCTION-HOU	JR WORKSHEET (revised 7/14)	¥ .0
COUNTY Fayette	PROJECT TYPE	
ROUTE Wilson Downing	CONSULTANT P	ALMER
DESC Wilson Downing Sidewalk	REVIEWED BY	
	PREPARED BY	SDS
ITEM NO.	DATE	
PRODUCTION-HOUR SUMI	WARY	127
		115
LINE AND GRADE TOTAL		
UTILITY COORDINATION TOTAL		4
RIGHT OF WAY PLANS TOTAL		39
FINAL PLANS TOTAL		341
MEETINGS TOTAL		29
PUBLIC INVOLVEMENT TOTAL		8
QA/QC TOTAL	,	0
GRAND TOTAL		663

# CLASSIFICATIONS AND PERCENTAGES FOR DESIGN PALMER ENGINEERING COMPANY

6/27/2017 4/15/2018 11/20/2017 calculated by (1.05^0.8-1) Begin End midpoint: Escalation:
rate = 0.82%
period = 0.4
factor = 0.0033 COUNTY Fayette
PROJECT Wilson Downing
UPN
FED. NO.

EM NO.				Preliminary	Utility					
				Line and	Relocation	Right of	Final		Public	
effective 7/5/2017			Survey	Grade	Coordination	Way Plans	Plans	Meetings	Involvement	
NOILISO	Avg.	Escala-	ltem	<b>ltem</b>	Item	Item	Item	Item	ltem	
	Rate	ted Rate	1A	18	10	9	力	1F	<b>1</b> 6	
Principal	\$104.45	\$104.79	2%	2%	2%	2%	2%	10%	10%	
Project Manager	\$63.81	\$64.02	%0	20%	20%	20%	20%	20%	20%	
Professional Sr Engineer	\$56.73	\$56.92	%0	10%	10%	10%	10%	30%	30%	
Professional Engineer	\$36.88	\$37.00	%0	30%	30%	30%	30%	40%	40%	
	\$28.75	\$28.84	%0	15%	15%	15%	15%	%0	%0	
Engineer Tech II	\$44.64	\$44.79	10%	10%	10%	10%	10%	%0	%0	
Survey Crew: (2-man)	\$40.63	\$40.76	85%	%0	%0	%0	%0	%0	%0	
Party Chief \$45.75										
Instrumentman \$35.50			Commence of the commence of th							
				, , , , ,						
IOIAL			\$44.36	\$43.64	\$43.64	543.64	\$43.64	\$55.16	\$55.16	

# Direct Cost Summary Palmer Engineering Company

			Unit		
Item	Amount	Unit	Cost	Cost	Totals
SURVEY					\$640
Mileage - 4 wheel drive					
6 round trips @ 40 miles	240	mi	\$0.53	\$127	
meals		days	\$30.00	\$0	
lodging		nights	\$85.00	\$0	
computer time @ 10%	13	hours	\$15.00	\$195	
travel time (6 trips @ x1 hours each)	6	hours	\$52.99	\$318	
(Ave. Rate \$40.76 x 1.3 = \$52.99 / hour)					
PRELIMINARY LINE AND GRADE					\$1,315
Mileage 0 round trips @ 20 miles		mi	\$0.47	\$0	
Printing / Copies					
printing	25	prints	\$1.00	\$25	
computer time @ 75%	86	hours	\$15.00	\$1,290	
UTILITY COORDINATION					\$45
Mileage 0 round trips @ 20 miles		mi	\$0.47	\$0	
Printing / Copies					
printing		prints	\$1.00	\$0	
computer time @ 75%	3	hours	\$15.00	<b>\$4</b> 5	
RIGHT OF WAY PLANS					\$460
Mileage 0 round trips @ 20 miles		mi	\$0.47	\$0	
Copies / Printing					
printing	25	prints	\$1.00	\$25	
computer time @ 75%	29	hours	\$15.00	<b>\$4</b> 35	
FINAL PLANS					\$3,865
Mileage 0 round trips @ 60 miles		mi	\$0.47	\$0	
Printing / Copies					
printing	25	prints	\$1.00	\$25	
computer time @ 75%	256	hours	\$15.00	\$3,840	
MEETINGS					\$45
Mileage 0 round trips @ 10 miles		mi	\$0.47	\$0	
computer time @ 10%	3	hours	\$15.00	\$45	
PUBLIC INVOLVEMENT					\$30
Mileage 0 round trips @ 10 miles		mi	\$0.47	\$0	
computer time @ 25%	2	hours	\$15.00	\$30	
					\$6,400
					40,400

# DESCRIPTION OF ITEMS PRODUCTION-HOUR WORKSHEET

(revised December 11, 2012)

# **SURVEY**

**Total Length** 

5550 LF = 1.1 miles

# **RECONNAISSANCE**

# 1 Control (existing)

A field and record search for any existing control that may be utilized, including controls established for aerial photogrammetry. Sources of any existing control need to be identified.

1.1 Miles

# 2 Utilities (data gathering, identification & contact)

Identify all utility companies within the project corridor and maintain a valid contact list of those utility companies and their representatives. Contact utility companies, Kentucky 811, KYTC District Utilities Staff and any other sources for utility facility mapping or other information concerning the location of any utilities. Check with local governments for GIS databases and for other sources of information.

6 Utilities

# 3 Drainage - (sink holes, streams, pipes, etc.)

Identify drainage features that may require consideration in design and that are necessary to be documented on the plans.

1.1 Miles

### **CONTROL**

### 4 Horizontal

Establish any new or additional horizontal coordinate control including the monumentation. All control information, including pre-established, shall be documented in a survey report and submitted to the KYTC Project Manager. All horizontal control obtained from Global Positions Systems (GPS) shall comply with the <u>Geometric Geodetic Accuracy Standards and Specifications for using GPS Relative Positioning Techniques</u> published by the Federal Geodetic Control Subcommittee dated August 1, 1989. Additional control points set shall be a minimum of 24-inch rebar (#4 or larger) with a plastic or aluminum cap.

1.1 Miles

## 5 Vertical

Establish any new or additional vertical control, including benchmarks, and including the monumentation. All control information, including pre-established, shall be documented in a survey report and submitted to the KYTC Project Manager. All vertical control obtained from Global Positions Systems (GPS) shall comply with the <u>Geometric Geodetic Accuracy Standards and Specifications for using GPS Relative Positioning Techniques published by the Federal Geodetic Control Subcommittee dated August 1, 1989.</u>

1.1 Miles

Note: The Department, through its photogrammetry consultant, will provide horizontal and vertical controls to NGS (National Geodetic Survey) bench marks. Intermediate controls set by the Consultant shall be

tied to the controls provided by the Department. This work is only necessary if the project was not flown or if insufficient controls were established with the aerial photogrammetry. It is expected that with this item of work, any existing controls would be checked for accuracy.

### 6 Process data

Process data obtained from field survey and check for accuracy and closure. Preparation of survey report of coordinate controls and bench marks.

Note: A complete coordinate control report including existing and new control point information, with traverse information confirming coordinate control accuracy and a bench level report shall be prepared and submitted to the KYTC Project Manager.

1.1 Miles

### PLANIMETRIC SURVEY

### 7 Planimetric location

Locate and/or identify all necessary planimetric features. On projects with aerial photogrammetry available this would require only identification of planimetric features and pick-up of areas not covered by the available photogrammetry, if required. For Phase 2 design this would be for the update of the topography due to new or changed planimetric features since the original survey or aerial photogrammetry was obtained. It should be noted on the production-hour form the extent of work required, for example, complete, pick-up or update.

1.1 Miles

# 8 Subsurface Utility Engineering, Quality Level C & D

Apply reconnaissance utility data gathered to locate utility facilities on plans. Gather a survey of all visible utility facility features (i.e. poles, valves, manholes, markers, etc.) and provide them on the plans. Utilize both the reconnaissance data and field generated data to assess the approximate location of the utility facilities within the project corridor. This data shall be used to identify potential conflicts between the project and the existing facilities.

1.1 Miles

### 9 Subsurface Utility Engineering, Quality Level B

Identify specific locations where the road project potentially may conflict with the existing utility facilities and a more precise location of the utility is needed. Quality Level B location is valid if precision is needed to validate the conflict, confirm the facility may remain in situ, or design to avoidance. The Quality Level B location shall be a non-excavation field procedure using surface locating technologies and shall provide a more precise location of the facility without providing elevations. The consultant shall denote the Quality Level B location on the plans and use this information to avoid the facility or establish a plan for relocation as appropriate.

### 10 Subsurface Utility Engineering, Quality Level A

Identify specific locations where the exact location of the utility is needed. A Quality Level A location is valid if a precise elevation is needed to validate the conflict, confirm the facility may remain in situ, or design to avoidance. For those locations, validate the Quality Level B location, confirm facility type, size, and provide elevations via vacuum excavation or other valid means. The consultant shall communicate with the utility company, providing the utility to be present during the facility location when necessary. The consultant shall denote the Quality Level A location on the plans and use this information to avoid the facility or establish a plan for relocation as appropriate.

### 11 Process data

Process all necessary data to produce a planimetric map and submit electronic files to the designer.

# **TERRAIN SURVEY**

# 12 DTM data collection

Collect general terrain data for project (when general terrain data is not already available).

Note: Items 11-18 should not be required if general terrain data is to be collected.

# 4 acres (LIDAR DATA TO SUPPLEMENT)

# 13 Verify terrain model accuracy

Check for accuracy of breaklines, random points, contours, etc., including terrain model obtained from aerial photogrammetry.

Note: The density of points taken in the field to check the DTM will be determined at the Predesign Conference.

### 14 Tie-ins

Field verification of all field data necessary for tying of project to existing features pavements etc. Include all road approaches. Entrances are not generally required and will only be performed if specifically directed by the KYTC Project Manager.

# 15 Drainage situation survey (Bridge)

Obtain all necessary field data to represent situation survey for bridges, including stream profile and necessary terrain data to merge into the existing terrain model.

## 16 Drainage situation survey (Culvert)

Obtain all necessary field data to represent situation survey for culverts.

# 17 Drainage pipe section (non-situation size)

Obtain all necessary field data to define the accuracy of the existing flowlines and inlet and outlet location and elevations of cross drains.

Note: Does **not** include entrance pipes.

# 18 Flood plain data

Collect field data necessary for flood plain analysis.

# 19 Railroad Surveys

Obtain all necessary terrain data to represent railroad survey (top of rail, ballast, ditches, fills, cuts, RR milepost, etc.).

# 20 Additional necessary DTM data

Collect other necessary data to produce an accurate digital terrain model (obscured areas, field checked areas, areas needing greater accuracy, etc.).

### 21 Process data

Process all pertinent data necessary to generate digital terrain models and submit electronic files to the designer.

1.1 Miles

### **ESTABLISH PROPERTY LINES & OWNERSHIP**

### 22 Contact & Interview Property Owners

Contact property owners requesting permission for access and discuss general scope of project, locations of property lines, septic system, drainage and any other pertinent information. A report

is to be generated with a copy of the contact letter and all completed contact information forms from property owners, upon request.

Note: The contact letter and information form is to be reviewed and approved by the KYTC Project Manager prior to contacting the property owners. The contact letter shall include the name of a person from the consultant that may be contacted in case of problems and the KYTC Project Manager.

### Field tie property lines/corners

Locate all monuments (rebars, pins, etc.) and other evidence of property lines (fences, tree lines, drains, etc.).

10 Parcels

### **STAKING**

### 24 Stake centerlines, approaches, detours

Accurately stake centerline at intervals determined at the Predesign Conference and process data.

### 25 Stake core holes - structures

Stake or locate all geotechnical borings required for structural design and process data.

*NOTE:* The unit is per individual structure, *NOT* per hole.

### 26 Stake core holes - roadway

Stake or locate all geotechnical borings required for geotechnical soil/rock analysis and process data.

NOTE: The unit is per individual core hole.

### **SURVEY MISCELLANEOUS**

### 27 Determine Roadway Elevations (Crown and EP)

This would be necessary on widening and overlay projects where the terrain model is developed from aerial photogrammetry and accurate pavement elevations are required and includes processing data.

NOTE: Unit is per mile of individual roadway sections.

### 28 Environmental areas

Locate and identify areas and feature that may be considered environmental issues and includes processing data.

### 29 Reserved for additional miscellaneous survey items required

### PRELIMINARY LINE AND GRADE

### 30 Computer setup

Load and organize project data (manuscripts, mapping, ortho-rectified photographs, etc.) into computer system, the establishment and maintenance of a file management system for project data, including the storage and manipulation of all project files required for plan development.

1 LS

# 31 Prepare existing manuscripts

Reviewing existing manuscript, if provided from aerial photogrammetry, and modifying any items that need to be corrected in order to conform to current KYTC CADD standards. Incorporate any additional topography picked up by field survey. Depict locations of all existing utility facilities. Manipulation/addition of text and notes identifying topography, planimetrics, drainage structures and utilities. Addresses shall be shown for all parcels, if requested.

# 32 Establish approximate property lines and ownership

Using field evidence and research documentation, such as plats and PVA records, establish approximate existing right of way and property lines and denote the property ownership, parcel numbers and lines on the plans

### 33 Study and develop typical sections

Study, develop, and document all necessary typical sections (including alternatives) for the mainline and all other roadways, including creating the Inroads roadway templates for each roadway.

# 34 Study and develop horizontal alignments

Study, develop and document the alternate horizontal alignments including approaches. Generate the necessary graphics depicting the proposed alternative, including disturbed limits, drainage structures, etc.

### 1.1 Miles

# 35 Study and develop vertical alignments

Study, develop and document the vertical alignments for each horizontal alignment including approaches and entrances.

### 1.1 Miles

### 36 Create and evaluate proposed roadway models

Create, review, modify and finalize the proposed roadway model for each roadway and alternative, including creating the required cut/fill to create the roadway model. Includes depiction of critical cross sections, as discussed in the Predesign Conference.

Note: This would include the various iterations and adjustments required to complete an alternative due to earthwork balancing, intersection sight distance and alignment refinement.

### 1.1 Miles

### 37 Design entrances

Determine approximate location, grade, width and type of entrance and depict on the plans of the preliminary alternatives.

# 12

# 38 Pre-size pipes

Determine preliminary diameter, length, and end treatment for each drainage pipe. 10

# 39 Pre-size culverts

Determine preliminary size, length, and end treatment for each culvert.

### 40 Pre-size bridges

Determine preliminary size (deck width, span arrangement, hydraulic openings, and/or clearances) for each bridge.

# 41a Conduct Traffic Engineering Analysis (Basic; Highway Capacity Manual Procedures)

Conduct and document traffic engineering analysis for each roadway section and each major intersection, using the appropriate Highway Capacity Manual/Highway Capacity (HCM/HCS) procedures. This analysis will determine the appropriate lane configuration to meet the desired performance of the roadway. Production hours will be based on the number of intersections for the project. Roadway lengths between intersections will be considered incidental to the overall analysis.

Note: Number of major intersections to be analyzed, along with appropriate analysis scenarios and roadway sections will be determined and documented at the Predesign Conference.

### 41b Conduct Traffic Engineering Analysis (Advanced; Micro-simulation)

Conduct and document traffic engineering analysis for each roadway section and each major intersection, using micro-simulation. This analysis will evaluate the ability of the project to operate as a comprehensive system. Production hours will be based on the number of major intersections on the project. Analysis should account for roadway lengths and minor intersections along the approaches to the major intersections.

Note: Major intersections to be analyzed, along with appropriate analysis scenarios and roadway sections will be determined and documented at the Predesign Conference.

### 42 Study and development of interchange

Study, develop and document preliminary interchange layouts including capacity analysis for weaving areas and merge/diverge.

Note: The specific scope of work and methodology of analysis will be determined at the Predesign Conference.

# 43 Study and development of intersection

Study, develop and document preliminary intersection layouts including appropriate capacity analysis, if required, for each intersection. Intersections to be studied will be identified in the Predesign Conference.

Note: The specific scope of work and methodology of analysis will be determined at the Predesign Conference.

# 44 Study and develop maintenance of traffic plan

Study, develop and document alternative traffic control plans including construction phasing and/or detour routes.

# 45 Plot/print plans for meetings and inspections

Plot and/or print plans, profiles, drawing, cross sections, schematics, etc. for meetings, inspections or upon request.

Note: The number of sets of prints for meetings and inspections shall be determined at the Predesign Conference.

1 LS

### 46 Calculate preliminary quantities and develop cost estimates

Develop and document cost estimates for each alternate, including calculating preliminary quantities for each alternative. Includes development of a preliminary pavement design, to be reviewed by the KYTC Project Manager, to use in calculating preliminary pavement quantities. This should include estimating utility relocations costs as a result of the highway project and examination of those costs relative to the road construction costs.

### 1 ALT

### 47 Revise plans and estimates

Revise plans and estimates as directed from reviews and inspections. Upon completion of the Preliminary Line and Grade Inspection, the Consultant shall incorporate all significant comments into the preliminary plans and submit the revised plans and electronic files to the KYTC Project Manager.

# 48 Preliminary Right of Way with taking areas

Layout preliminary Right of Way and calculate approximate Right of Way taking areas from each parcel, for each alternate. Document the areas of taking for each alternate and depict the preliminary Right of Way and easements on the plans.

# 49 Prepare Design Executive Summary

Prepare and submit Design Executive Summary, including all necessary documentation, location map, typicals, etc.

# 50 Develop/document "Avoidance Alternatives to Water Related Impacts"

Prepare documentation concerning all blue line streams as denoted on topographic quad maps.

### 51-55 Reserved for additional miscellaneous PL&G items required

# UTILITY COORDINATION

### 56 Utility Coordination Meeting

Hold a Utility Coordination Meeting for all utility companies identified within the project corridor, KYTC utility and design staff. The intent of this type of meeting is to identify critical conflicts and easement needs, discuss avoidance possibilities, consider relocation placements and costs, phasing and schedule, and identify Quality Level A or Quality Level B location needs. This meeting shall take place prior to the joint inspection but for complex projects and projects with a prevalence of utilities, it is recommended to hold at least two meetings.

2 Meeting

### 57 Develop Utility Relocation Layout Sheets (1"=200")

Develop preliminary relocation layout sheets that show all existing utility facilities, locations of Quality Level A and Quality Level B subsurface utility engineering information, identified conflicts with the project, and proposed relocation alignments.

## 58 Develop Utility Relocation Plans (1"=50")

Develop utility relocation plans for utilities that have agreed to have KYTC's consultant perform relocation design services. These plans shall provide a detailed horizontal and vertical alignment of the facilities to be relocated. Plan sheets, profile sheets, and cross sections shall be required. Plans shall adhere to the utility company's standards and specifications.

# 59 Reserved for additional miscellaneous Utility Coordination items required.

# RIGHT OF WAY

### 60 Deed research

Research of all documents necessary to determine property lines, existing easements, encumbrances and ownership including a copy of the deed with deed book and page number and available plats.

LFUCG TO PREFORM

### 61 Establish property and ownership

Using field evidence and research documentation to accurately establish property lines, existing Right of Way, existing easements, owner names, lessee names, and parcel numbers. Document on plans.

LFUCG TO PREFORM

# 62 Calculate Right of Way

Calculate lines and areas of all proposed right of way and easement takings for each parcel.

Depict all right of way and easements, including metes and bounds, on plans.

5 Parcels

### 63 Prepare legal descriptions

Prepare and check legal descriptions for each area of taking.

5 Parcels

### 64 Prepare Right of Way summary sheet

Complete Right of Way summary sheet including all affected parcels.

5 Parcels

### 65 Generate Right of Way strip map

Prepare Right of Way strip map covering all affected parcels. Generate individual strip map sheets.

2 Sheet

### 66 Prepare Right of Way Plans Submittal

Generate the computer files of the Right of Way plans, plot the original mylars, prepare electronic submittal of plans and deeds and submit plans, computer files, source deeds and proposed deed descriptions to the District Office. Detour runarounds or other maintenance of traffic plans that have impacts to the right of way or utilities shall be included in the Right of Way plans. A set of prints of drainage and cross sections may also be required to be included in the submittal.

Note: A set of prints is to be submitted to the KYTC Project Manager for review prior to submittal of Right of Way plans, if requested.

1 Lump Sum

# 67 Right of Way revisions after Right of Way submittal

Prepare Right of Way plan revisions as necessary. Post Right of Way Plan submittal and prior to the final construction plan submittal. Includes re-submittal of revised plans (mylars), 1 set of prints with changes marked in red, plats, deed descriptions and electronic files.

### 68 Deed Research for Existing Alignments

Research to see if any back source deeds exist on existing alignments which will not be reconstructed and are not included in Line 60.

### 69 Deed Research for Existing Parcels

Investigate old recorded deeds that exist and perform actual research for each parcel necessary to determine property lines, existing easements, encumbrances and ownership including a copy of the deed with deed book and page number and available plats, if any.

# 70 Prepare Legal Descriptions for Right of Way Transfer

Prepare legal deed descriptions for each parcel to be transferred to local government responsibility.

# 71-74 Reserved for additional miscellaneous Right of Way items required

### 71 Prepare Plats for LFUCG Permanent Right of Way

Prepare Plats for ROW acquisition

3 Parcels

# FINAL PLAN PREPARATION

# 80 Computer setup

Load and organize electronic data files (manuscripts, centerline data, coordinates data, terrain models etc.).

Note: In most cases much of this work was completed in Phase 1.

### 1 Lump Sum

# 81 Update existing topography and terrain model

Using updated field data, modify and update the existing topography and terrain model.

# 82 Refine alignments (horizontal & vertical)

Refine, adjust, and document the preferred horizontal and vertical alignments accommodating greater detail in tie-down points, approaches, detours, etc.

### 1.1 Miles

### 83 Develop pavement design

Analyze, document and submit for review and approval the proposed pavement design folder for each roadway, including pavement calculations, life cycle costs, typical sections and pavement details.

# 84 Finalize templates & transitions

Finalize necessary templates and template transitions for all roadways. This includes each instance of a horizontal change in roadway edge of pavement with respect to the centerline.

### 85 Develop final roadway model

Modify the preliminary roadway model or generate a new roadway model incorporating the proposed design into the initial roadway model, including cut/fill slopes, roadside ditches, etc. as necessary to define ditches and disturbed limits and enable the generation of cross-sections for all roadways.

Note: The extent and degree of accuracy of the "final" roadway model is to correspond with the required guidelines of electronic deliverables. This effort of work is to be discussed at the Predesign Conference.

# 1.1 Miles

# 86 Develop proposed design

Design and depict on the plans (manuscript) all proposed construction details and graphics, including pavement, drainage, construction notes, etc.

### 1.1 Miles

# 87 Generate plan sheets

Perform necessary work to create individual plan sheets, including dropping of sheet cells, masking, manipulation of text and notes, etc.

7 Sheets

Generate profile sheets

Perform necessary work to create individual profile sheets, including dropping profile, annotation of profile, drainage, ditches, notes, etc.

Note: Though depiction of longitudinal storm sewers is generally performed on the profile sheets, they will be paid for as individual pipe sections under Item 92.

# 7 Sheets

88

# 89 Detail cross sections

Drop cross sections onto sheet cells; add yardage quantities, details, notes, etc.

Note: The majority of work required for the development of cross sections is under Item 85.

120 Sections

# 90 Design entrances

Determine location, grade, type of entrance, width and quantities and depict on the plans.

12 Entrance

### 91 Revise roadway plans from soils report

Modify the roadway model incorporating geotechnical report recommendations.

Note: Length is based on expected area requiring changes due to geotechnical report, not entire project length.

### **DRAINAGE**

# 92 Develop pipe sections (< 54")

Create and design pipe sections including quantities, notes and depicting them in the plans.

Note: Includes cross drains, storm sewer, etc.

5 Pipes

# 93 Develop drainage system map

Create map describing the proposed drainage system and delineates drainage areas. Includes generating the individual sheets.

1.1 Miles

# 94 Develop drainage situation (bridge)

Develop and prepare drawing of alignment, profiles, sections, and plan to represent bridge situation survey.

# 95 Develop drainage situation (culvert)

Develop and prepare drawing of alignment, profiles, sections, and plan to represent culvert situation survey.

# 96 Develop blue line stream channel changes (=> 200')

Develop and prepare drawing of alignment, profiles, sections, and plan to represent channel change, including stream mitigation requirements.

# 97 Drainage analysis (Entrance pipes)

Conduct and document drainage analysis to determine frequency flows and required structure size of entrance pipes. Includes completion of forms.

# 98 Drainage analysis (A <= 200 acres)

Conduct and document drainage analysis to determine frequency flows and required structure size. Includes completion of forms.

5 Pipes

# 99 Drainage analysis (200 acres < A < 1.0 sq. mile)

Conduct and document drainage analysis to determine frequency flows and required structure size. Includes completion of forms.

### 100-102 Drainage analysis ( $A \Rightarrow 1.0$ sq. mile) -- Levels 1, 2, & 3 Analysis

Conduct and document drainage analysis to determine frequency flows, required structure size,

location, and risk assessment. Includes completion of forms.

# 103 Special drainage studies

Conduct special drainage studies, which may include HEC-1, TR-20, TR-55, Unsteady Flow Models, FESWMS-2DH, Detention Basin Design, Energy Dissipater Design, Dynamic Culvert Design or other Hydrologic/Hydraulic design as deemed appropriate.

### 104 Roadway ditches and channels

Determine hydraulic capacity (ditch size) and necessary channel lining of all ditches and channels. Includes documentation of design calculations and completion of forms.

Note: Left and right sides are independent to each other and should be added for a combined total.

# 105 Develop erosion control plan

Determination of required erosion control items and depiction in the plans, including required calculations and generating the individual sheets. Includes documentation of design calculations and completion of forms.

Note: Specific scope of work and level of effort is to be discussed at the Predesign Conference

### 1.1 Miles

### 106 Inlet spacing calculations

Conduct necessary calculations to determine structure types, and inlet spacing for the layout and design of storm sewer systems. Includes documentation of design calculations and completion of forms.

### 107 Storm sewer calculations

Conduct necessary calculations to determine pipe size, storage volumes, etc. for the layout and design of storm sewer systems. Includes documentation of design calculations and completion of forms.

### 108 Perform scour analysis

Perform scour analysis as referenced in the FHWA HEC-18 and HEC-20 and the current Drainage Manual. Includes documentation of design calculations and completion of forms.

### 109 Assemble preliminary and final drainage folders

Copy, fold, bind, and assemble drainage folders.

## 110 Prepare advanced situation folder - bridge

Prepare required documentation, copy, fold, bind, and assemble the folder.

Note: Folder contents are to conform to requirements outlined in the Drainage and Bridge Manuals.

### 111 Prepare advanced situation folder - culvert

Prepare required documentation, copy, fold, bind, and assemble the folder.

Note: Folder contents are to conform to requirements outlined in the Drainage and Bridge Manuals.

### 112-115 Reserved for additional miscellaneous Drainage items required

### FINAL PLAN CONTINUATION

### 116 Prepare layout sheet

Prepare layout sheet for the Construction Plans.

1 Lump Sum

# 117 Prepare typical sections

Prepare all typical sections including the proposed pavement design and other necessary details for each roadway, detour, and entrance.

1 Typical Section

# 118 Prepare interchange geometric approval sheet

Prepare geometric approval sheet, including all required alignments, curve data, coordinates, etc. for requesting approval of the interchange geometrics.

# 119 Prepare intersection geometric approval sheet

Prepare geometric approval sheet, including all required alignments, curve data, coordinates, etc., for requesting approval of the intersection geometrics.

# 120 Prepare coordinate control sheet

Develop all coordinate control information, including proposed centerlines, event points, control points, and benchmarks with appropriate descriptions, and place into the plans in tabular form and generate individual sheets.

1.1 Miles

### 121 Prepare elevation developments sheet

Prepare elevation development sheets including all geometric data and elevation data necessary.

### 122 Prepare striping plan

Prepare details for striping plans as outlined in the Predesign Conference.

# 123 Calculate final quantities

Calculate and document <u>all</u> quantities required for the construction of the final roadway and maintenance of traffic during construction, including permanent and temporary items.

1.1 Miles

### 124 Complete general summary

1 Lump Sum

### 125 Complete paving summary

### 126 Complete drainage summary

1 Lump Sum

### 127 Complete pavement under-drain summary

### 128 Prepare cost estimate

Prepare and document cost estimates including bid prices for each item, using best engineering judgement, for inspections, meetings and final plan submittal.

1 Lump Sum

### 129 Plot/Print copies of plans

Plot/print copies of plans including the necessary copies of plans for distribution at project milestones (inspections, meetings, etc.).

Note: The number of sets of prints for meetings and inspections shall be determined at the Predesign Conference **1 Lump Sum** 

### 130 Plan revisions

Complete any necessary and unexpected plan revisions that arise during the project that are beyond the control of the consultant, including revisions to plans required due to Right of Way Revisions that are not directly shown on the Right of Way Plans.

1.1 Miles

# 131 Prepare final construction plans submittal

Generate the computer files of the final plans, plot the original mylars, prepare electronic submittal of plans and required files and submit plans, computer files and a list of General Notes to the District Office. Also includes submittal of a set of Review Plans and making any necessary changes identified by the roadway plan review.

1 Lump Sum

# **MAINTAINENCE OF TRAFFIC**

# Write maintenance of traffic notes (TCP)

Write and submit the required Traffic Control Plan, including the construction phasing for the project.

1 Lump Sum

# 133 Prepare construction phasing plans

Prepare plans for maintenance of traffic, construction phasing and/or detours necessary for the construction of the project, including all phasing, special notes, signs, temporary pavement markings and quantities. When maintenance of traffic details have been completed, a Traffic Control Plan shall be prepared and submitted to the KYTC Project Manager to obtain the necessary approval signatures. Once approved, the notes and phasing details will be incorporated into the final construction plans.

- 134 Develop diversion plan sheets
- 135 Develop diversion profile sheets
- 136 Develop diversion cross sections
- 137 Develop temporary drainage

# **FINAL PLANS MISCELLANEOUS**

138 Pre Bid submittal documents (LDRC, PDC, Specs)
1 Lump Sum

# 140-149 Reserved for additional miscellaneous Final Plans items required

# **MEETINGS**

# 150 Preliminary line and grade inspection

Preparation and attendance by the project engineer and others, if necessary, to the preliminary line and grade inspection and preparation of the inspection report.

1 Meeting

# 151 Drainage inspection

Preparation and attendance by the project engineer and drainage engineer to the drainage inspection and preparation of the inspection report.

# 152 Final inspection

Preparation and attendance by the project engineer and others, if necessary, to the final inspection and preparation of the inspection report.

2 Meeting (Punch List & Final Closeout)

# 153 Misc. project coordination meetings

Attendance by the project engineer and others, if necessary, to any project coordination meetings scheduled by the Project Manager and preparation of the meeting minutes.

5 Meeting

### 154 Project team meetings

Attendance by the project engineer and others if necessary, to any project team meetings scheduled by the Project Manager and preparation of the meeting minutes.

# 155 Value Engineering Study

This item is applicable only for a project requiring a VE study or project where the KYTC project manager specifies that a VE study will be done.

Attendance by the project engineer at the project briefing (normally 2 hours). Attendance by the project engineer at the VE recommendations briefing (normally 2 hours). Preparation of presentation for the project briefing. Preparation and compilation of project plans and documents for the VE team. Meeting attendance by the project engineer with KYTC project manager to review VE recommendations for further implementation.

### 156 Constructability Review

This item is applicable to any project for which the KYTC project manager determines a standalone constructability meeting is warranted. The constructability review meeting is scheduled so as to facilitate the design decision making process and the development of final plans. Typical projects are those for which the project engineer anticipates a complicated maintenance of traffic plan or unusual construction work restrictions. Attendees should include the project engineer and others as necessary.

Prepare meeting materials, including any constructability related details (draft phasing, maintenance of traffic, seasonal restrictions, as well as standard plan information) prior to the meeting. Write and distribute minutes after the meeting.

# 157-159 Reserved for additional miscellaneous Meeting items required

# **PUBLIC INVOLVEMENT**

Note: The level of Public Involvement shall be discussed in the Predesign Conference and documented in the minutes.

167 Individual Meetings with Stakeholders (schools, businesses, etc)

Prepare and maintain an up-to-date mailing list consisting of all potential property owners, local officials and other interested individuals.

5 Meetings

167-169 Reserved for additional miscellaneous Public Involvement items required



Matthew G. Bevin Governor

# COMMONWEALTH OF KENTUCKY TRANSPORTATION CABINET

Greg Thomas
Secretary

Frankfort, Kentucky 40622

www.transportation.ky.gov/

### **MEMORANDUM**

TO: Eric Pelfrey, Director

Division of Professional Services

FROM: Michael Coffey, Audit Manager

**External Audit Branch** 

DATE: August 11, 2017

SUBJECT: Palmer Engineering Company

Fiscal Year Ended January 1, 2017 Indirect Cost Rate

The Kentucky Transportation Cabinet has approved the following rates for Palmer Engineering Company (the Company) for the fiscal year ended January 1, 2017:

Indirect Cost: 175.76%
Facilities Capital Cost of Money (FCCM): 0.52%
CADD Rate \$ 17.18\*

\*Rate is limited to \$15 per 600 KAR 6:070 Section 2 (6) (e)

We also recommend acceptance of the pay rates in the Attachment.

This approval does not constitute "establishment of a rate by a cognizant agency" for the purposes of applying the rules published in Title 23 CFR 172.7. The Kentucky Transportation Cabinet retains the right to audit the above rates or adjust them should a cognizant approval occur after this date.

This memorandum is intended solely for the use and information of the Company and the Kentucky Transportation Cabinet related to contracts employing the cost principles of the Federal Acquisition Regulations and should not be used for any other purpose. This restriction is not intended to limit the distribution of this memorandum, which is a matter of public record.

MC/slb Attachment



An Equal Opportunity Employer M/F/D

# Palmer Engineering Company Attachment

# Average Pay Rates

We have verified Palmer Engineering Company's rates per classification as of July 5, 2017:

Classification	<b>Hourly Rate</b>	Classification	Hourly Rate
Admin. Assistant	\$30.67	Party Chief	\$45.75
Consulting Engineer	\$16.01	Principal	
Engineer in Training	\$28.75	Professional Engineer	
Engineer Technician I	\$30.17	Professional Sr. Engineer	
Engineer Technician II	\$44.64	Project Landscape Architect	
Environmental Technician I	\$34.50	Project Manager	
Environmental Technician II	\$41.28	ROW Specialist	
Instrument Man	\$35.50	Support Staff	
Maintenance	\$18.00	• •	

The average pay rates per classification have increased an average of 0.82% over the last two years.



# CERTIFICATE OF LIABILITY INSURANCE

**DATE (MM/DDYYYY)** 04/19/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
The Underwriters Group, Inc. 1700 Eastpoint Parkway	PHONE (AC, No. Ext): 502-244-1343 (A/C, No): 502-2 E-MAIL ADDRESS:	244-1411
P.O. Box 23790 Louisville, KY 40223	INSURER(S) AFFORDING COVERAGE	NAIC#
	INSURERA: Valley Forge Insurance Company	20508
INSURED	INSURER B: Continental Casualty Company	20443
Palmer Engineering Company	INSURER C: AM Casualty Co of Reading PA	20427
P. O. Box 747 Winchester, KY 40392	INSURER D: National Fire Insurance Co of Hartford	20478
,	INSURER E: XL Specialty Insurance Company	37885
	INSURER F:	
COVERAGES CERTIFICATE AU MARCED.		

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITH STANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. HAVE SEEN MAY HAVE PERFORDED TO THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS,

INDE	EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.							
INSR LTR	THE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
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ŀ	CEAN ACCRECATE AND ACCRECATE A						PERSONAL & ADV INJURY \$1,000,000	
}	GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PROJECT LOC						GENERAL AGGREGATE \$2,000,000	_
f							PRODUCTS - COMP/OP AGG \$2,000,000	
_	OTHER: AUTOMOBILE LIABILITY						\$	
В	Ÿ	X	Х	6012733078	05/01/2017	05/01/2018	(Ea accident) \$1,000,000	
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D	DED RETENTION \$ 10,000 WORKERS COMPENSATION			6012733047			\$	
٦	AND EMPLOYERS' LIABILITY			0012733047	05/01/2017	05/01/2018	X PER OTH- STATUT E ER	
- 1	OFFICER/MEMBER EXCLUDED?	N/A	ļ				<b>E.L. EACH ACCIDENT</b> \$1,000,000	
	(Mandatory in NH) If yes, describe under				1		E.L. DISEASE - EA EMPLOYEE \$1,000,000	
E	DÉSCRIPTION OF OPERATIONS below Professional Liability	-+	X	DPR9909028			E.L. DISEASE - POLICY LIMIT \$1,000,000	_
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	<u>:</u>						aggregate 4,000,000	
	PIOTON OF OPERATIONS (1 00 TONS)							

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Lexington-Fayette Urban County Government is included as Additional Insured with respect to General Liability and Automobile Liability for the referenced project. Coverage is primary. Note: Requirements for Environmental Liability and Pollution Liability: Environmental Liability is basically a contractor designed coverage, rather than for consulting architects and engineers. The professional liability policy does not exclude pollution incidents that arise out of the scope of professional services. (Per Mr. Tom Sweeney, Claims Manager, Dept of Law, LFUCG, this is

CERTIFICATE HOLDER	CANCELLATION
Lexington-Fayette Urban County Government  Room 338, Government Center  200 East Main Street	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
Lexington, KY 40507	AUTHORIZED BEPRESENTATIVE W Tergwor

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