



**PROFESSIONAL SERVICES  
 PROCUREMENT BULLETIN  
 2006-05  
 STATEWIDE DESIGN OF CULVERT  
 AND BRIDGE STRUCTURES**

COUNTY	Statewide
ROUTE	N/A
DISTRICT	Statewide
ITEM NO	N/A
PROJECT DESCRIPTION	Structural Design of Culverts and Bridges under 500 ft. span.
PROJECT MANAGER	Mark Hite
USER DIVISION	Structure Design
APPROXIMATE FEE	\$750,000 upset limit (per consultant)
PURPOSE AND NEED	Structure Design
PROJECT LENGTH	Varies
METHOD OF DESIGN	Design shall be by American Association of State Highway Transportation Organizations (AASHTO) Standard Specifications or Load Resistance Factor Design (LRFD) Specifications as required. The selected consultant shall utilize the Computer Aided Design & Drafting (CADD) Standards for Bridge Design. All submittals shall be in the form of a CADD deliverable. The CADD deliverable shall be in Microstation V8, dgn format, using Division of Bridge Design File Format, Seed Files, Cell Files and Resource File. It will also requires the Iplot organizer for plotting the final mylars. Eight person-hours will be allocated for this task. Design by AASHTO LRFD Specifications may be requested on selected projects. When these specifications are requested additional hours will be added to the total hours for the structure.

**DBE REQUIREMENT** Consultant team should include a Disadvantaged Business Enterprise (DBE) participation plan with their response to announcement. An additional page will be allowed with the Project Approach (page 7) in the response to announcement to convey this plan. A maximum of 5 points will be considered in the Evaluation Factors for the DBE Participation Plan.

**AVAILABLE STUDIES** N/A

**PROJECT FUNDING** State and/or Federal Funds

**SCOPE** Seven statewide consultant contracts will be negotiated to perform structural design for all structures that have not otherwise been assigned to consultants and/or cannot be designed in-house.

The required consulting services will include all final structural design engineering and plan preparation necessary for letting a project to construction.

**SPECIAL INSTRUCTIONS** Please note the new guidelines for responding to project bulletins should be used. [Instructions Response to Kentucky Transportation Cabinet.pdf](#)

The Department will utilize the consultants initially in order of rank then in reverse order of the number of hours already utilized with the exception that the Department may utilize a consultant based on a consultants already being the roadway consultant . The firm(s) will at that time be prequalified by the Department in the required area (s).

**STANDARD PERSON-HOURS** The person-hours allowed for each "standard" bridge or component as shown below:

**Substructures:**

- Breastwall Abutments—90 hours
- Single Row Pile Bents—30 hours
- Integral End Bents—40 hours
- Single or Wall Piers—80 hours
- Two Column Piers— 95 hours
- Three Column Piers—110 hours
- Intermediate Pile Bent—60 hours

**STANDARD  
PERSON-HOURS**

**Superstructure: (One, two or three spans)**

- Non-Composite Std Prestressed, Precast, Concrete Deck Units (PPCDU) (Standard Drawings) — 0 hours
- Composite PPCDU (Slab Details per Span) — 25 hours
- Beam Details (Spread Boxes per span) — 48 hours
- Beam Details (Spread 1-beam per span) — 32 hours
- Slab Details Single Span — 40 hours
- Slab Multiple two or three Spans — 80 hours
- Construction Elevations — 32 hours

**MISCELLANEOUS:**

- Title Sheet — 16 hours
- General Note Sheet — 8 hours
- Layout Sheet — 32 hours
- Foundation Layout-Pile Layout Sheet — 15 hours
- Approach Slab (each) — 4 hours
- Check Shop Plans (12 hours)

**Note: The above hours are based on a structure having a Zero (0) de-  
gree skew. (Add 10% to the total hours for a skewed structure.)**

**Culverts:**

- One Barrell — 40 hours
- Two Barrell — 50 hours
- Triple Barrell — 240 hours

**Culvert Extensions:**

- One Barrel — 160 hours
- Two Barrel — 200 hours
- Triple Barrel — 240 hours

Person-hours for non-standard structures will be negotiated on a case by case basis.

No additional hours will be allowed for skewed culverts.

ENVIRONMENTAL	Department
PHOTOGRAMMETRIC SERVICES	Department
STRUCTURE DESIGN	Consultant
GEOTECHNICAL SERVICES	Department
UTILITY DESIGN	Department
TRAFFIC	Department

**PREQUALIFICATION REQUIREMENTS**

**STRUCTURES**

- Spans under 500 feet
- Culvert Design

## PROJECT SCHEDULE & MILESTONES

RESPONSE DATE	March 8, 2006 4:30 p.m. (Frankfort Time)
SELECTION COMMITTEE DATE MEETING	March 22, 2006
SCOPING CONFERENCE	April 5, 2006
TENTATIVE DEADLINE FOR CONSULTANT FEE PROPOSAL	Set on a project by project basis
CONTRACT NEGOTIATIONS	Set on a project by project basis
NOTICE TO PROCEED	July 1, 2006

The selected consultant is expected to meet the scheduled milestone dates.

## EVALUATION FACTORS

1. Relative experience of consultant personnel assigned to project team with highway projects for KTC. (22 points)
2. Past record of performance on project of similar type and complexity. Including three prestressed concrete, one welded steel and one culvert extension (18 points)
3. DBE Participation Plan (5 points)
4. Capacity to comply with project schedule (3 points)
5. Consultant's Kentucky offices where work is to be performed. (2 points)

75% - 100% of work accomplished in Kentucky offices - 2 points

26% - 74% of work accomplished in Kentucky offices - 1 points

0% - 25% of work accomplished in Kentucky offices - 0 points

## SELECTION COMMITTEE MEMBERS

1. Mark Hite, P.E., User Division
2. Jim Miracle, P.E., User Division
3. Michael Calebs, Secretary's Pool
4. David Waldner, Secretary's Pool
5. Harvey Pelley, Governor's Pool