

ATTACHMENT A

SCOPE OF SERVICES

For additional design services on Lee's Summit Road

Project No.: Jackson County # 3122 / Federal Aid Project STP-3301(454)

AMMENDMENT DESCRIPTION

The following Scope of Work describes the requested additional Design Professional services associated with improvements to Lee's Summit Road from 1400 feet south of Anderson Drive, north to 500 feet south of US 40 Highway.

This amendment consists of design services for additional effort not requested in the original engineering contract between Jackson County and HNTB or subsequent contract amendment(s). These additional services are a result of the following changes to assumptions of project delivery and schedule within the current agreement:

- Jackson County has requested miscellaneous engineering tasks outside the scope of services for the current agreement. These tasks are included within the scope of services and fee estimate for this amendment. The tasks include specific engineering and design tasks, as requested by the County or tasks requested by MoDOT.
- Time extension to the original contract. The schedule of completion for the design phase has extended beyond the schedule established in the original engineering contract and subsequent contract amendment(s). Under the current agreement, the construction plans were to be completed prior to an October 2013 letting. It is now our understanding that the date for letting the construction project will be in March 2014. As a result of the extension to the design and construction schedule, HNTB is requesting:
 - A schedule extension,
 - Compensation for additional project management, meetings, and coordination required with Jackson County, MoDOT, KCMO and utilities thru the time extension period. HNTB is requesting compensation for these duties for the time period of October 2013 thru March 2014.

AMENDMENT TASKS

Additional Plan Conversion to MoDOT Standards

1. Remove general notes and traffic control notes from plans and incorporate into JSPs per MoDOT request.
2. Provide MoDOT requested breakout for clearing/grubbing and seeding/sodding by area, sheet or tract. Also includes updating recap table and revising BidPro.
3. Provide typical sign cross sections and calculate post lengths; assumes grouping like signs/locations together.
4. Add MoDOT requested cut/fill information to the cross sections. This information is approximate based on end-area volumes without any VMF factors or over-excavation included. Also does NOT include any rock/common/unclassified classifications.
5. Show Right-of-Way, Temporary Construction Easements and approximate grading limits on Lee's Summit Road cross sections; does not include side streets or other non-mainline areas.

Additional Utility Coordination

1. Add entrance on 54th Street to accommodate MGE station.

Additional Construction Phasing/Traffic Control Effort

1. Additional consideration and coordination regarding construction phasing with regard to revised schedule.
2. Revise phasing notes and revise traffic control JSP accordingly.

Additional Waterline Design Tasks

1. Four (4) additional meetings with MoDOT for north end project coordination; preparation of meeting minutes for 2 meetings; prepare alignment exhibits for north end
2. Additional preliminary and final design for an additional 200 feet of waterline on MoDOT led 40 Highway project; previously assumed 600 feet instead of the current 800 feet needed
3. Breakout waterline quantities for KCMO, County and MoDOT; for Lee's Summit Road project, quantities are to be separated by relocation area (conflict or upgrade); however, this information does NOT need to be broken out in the plan recap tables or as part of the bid information.
4. Reduction in \$8,000 of waterline construction phase services to offset the additional waterline design effort.

Additional Street Lighting Design Effort

1. Provide street lighting analysis for side street connections
2. Revise circuiting per KCMO request
3. Revise mast arm lengths for different offsets per KCMO request
4. Revise quantities, summary tables and BidPro for above changes

Additional Management and Coordination

1. Additional coordination, communication and management required do toe extended schedule (10/1/13 to 3/28/14). Assumes less than one hour of Project Manager effort per week on average for the 26 additional weeks.

AMENDMENT ASSUMPTIONS

1. MoDOT will not require full size plan submittals for PS&E, final PS&E, or for bid plans. Deliverable will be PDF format on a DVD or posted to MoDOT's FTP site.
2. No other changes to the 100% complete design plans are included except those specifically included herein.

SCHEDULE

The following schedule has been developed under the time frame requirements of MoDOT's revised schedule for P.S. & E. submittal and review of the road project. The schedule and milestones for the additional services are:

- December 11, 2013: Notice to Proceed
- NTP-January 31, 2014: Preparation of project manual and design plan changes/modifications.
- NTP thru March 28, 2014: Continued coordination with MoDOT and County with regard to the project plans and specifications
- January 10, 2013: P.S.&E. Submittal to MoDOT
- January 24, 2013: Address any P.S.&E. Comments & Submit Bid P.S.&E. Package
- February 2014: MoDOT to advertise the construction project
- March 2014: Bid opening
- May 2014: Begin Construction
- November 2015: End Construction

TASK BREAKOUT

| Items | Principal | Senior Project Manager | Senior Electrical Engineer | Senior Water Engineer | Project Engineer | Design Engineer II | Design Engineer | Technician / Admin | TOTAL |
|--|---|------------------------|----------------------------|-----------------------|------------------|--------------------|-----------------|--------------------|-------|
| Additional Project Design and Coordination Tasks | | | | | | | | | |
| A. Additional Plan Conversion to MoDOT Standards | | | | | | | | | |
| General Notes/Typicals/Quantities/ISPs | | | | | | | | | |
| 1. | | 1 | | | 2 | | 0 | 2 | 5 |
| a. | Remove General Notes and Traffic Control Notes from plans; incorporate into ISPs | | | | 0 | | 0 | 0 | 0 |
| b. | Revise ISP for 1' agg base beyond BOC (no plan or qty revisions) | 0 | | | 0 | | 0 | 0 | 0 |
| c. | Revise aggregate base quantities; update table and revise BidPro | | | | 0 | | 0 | 0 | 0 |
| d. | Provide breakout for clearing/grubbing and seeding/sodding by area, sheet or tract; update table, revise BidPro | | | | 4 | | 4 | 2 | 10 |
| 2. | Traffic Control/Signing | | | | | | | | |
| a. | Use MoDOT 2BS sheets for traffic control breakout | 0 | | | 0 | | 0 | 0 | 0 |
| b. | Add typical sign cross sections and calculate post lengths (assumes grouping like signs/locations together) | 1 | | | 8 | | 16 | 2 | 27 |
| c. | Use MoDOT D29 & D30 sheets and breakout signing quantities | | | | 0 | | 0 | 0 | 0 |
| 3. | Earthwork/Cross-Sections | | | | | | | | |
| a. | Include quantities for rock and soil excavation classifications per County provided estimated percentages | 0 | | | 0 | | 0 | 0 | 0 |
| b. | Estimate FIO earthwork "corrections" for storm sewer structures and pipes | 0 | | | 0 | | 0 | 0 | 0 |
| c. | Update earthwork summary table and revise BidPro for changes | | | | 0 | | 0 | 0 | 0 |
| d. | Add cut/fill information to cross sections | 1 | | | 12 | | | 12 | 25 |
| e. | Create R/W, TCE and grading limit features/annotation on cross sections | | | | 4 | | | 6 | 10 |
| 4. | Other | | | | | | | | |
| a. | Revise sheet naming convention to be MoDOT compliant | 0 | | | 0 | | | 0 | 0 |
| B. Utility Coordination | | | | | | | | | |
| 1. | Prepare for and attend additional utility coordination meeting | | | | 0 | | | 0 | 0 |
| 2. | Additional coordination and one 1-hour meeting regarding A-I & T relocation at south end of project. | | | | 0 | | | 0 | 0 |
| 3. | Add entrance on 54th Street to accommodate MGE station | 1 | | | 4 | | | 2 | 7 |
| C. Construction Phasing/Traffic Control | | | | | | | | | |
| 1. | Additional consideration and coordination regarding construction phasing with regard to revised schedule | 4 | | | 4 | | | | 8 |
| 2. | Revise phasing notes and revise ISP accordingly | 1 | | | 4 | | | 4 | 9 |
| D. Waterline Plans (Additional Effort beyond previously scoped) | | | | | | | | | |
| 1. | Meetings (4) with MoDOT for north end of project, and prepare minutes for 2 | 3 | | | 9 | | 2 | | 15 |
| 2. | Alignment exhibits for the MoDOT led north end of LSR | | | | 0 | | 0 | 0 | 0 |
| 3. | Preliminary design of 200ft additional (anticipated 600ft, now 800ft) on MoDOT led project | 1 | | | 4 | | 16 | 4 | 27 |
| 4. | Final design of 200ft additional (anticipated 600ft, now 800ft) on MoDOT led project | 1 | | | 2 | | 10 | 4 | 18 |
| 5. | Breakout quantities for KCMO, County and MoDOT; recap information similar to Flintlock plans | | | | | | | | |
| 6. | Show existing and proposed waterlines in culvert profiles and cross-sections | | | | | | | | |
| 7. | Reduction in preconstruction conference effort | | | | | | | | |
| 8. | Reduction in answering questions/interpreting documents during construction | -2 | | | -1 | | -4 | -8 | -5 |
| 9. | Reduction in onsite visits and project meetings | | | | -4 | | -24 | | -28 |

REVISED FEE SCHEDULE - LEE'S SUMMIT ROAD

Rates Valid Through 7-1-2014

| CLASSIFICATION: | | RATE: |
|-----------------------------|--|-------|
| ROADWAY | Principal | \$265 |
| | Sr. Project Manager | \$200 |
| | Senior Engineer | \$190 |
| | Project Engineer | \$135 |
| | Design Engineer III | \$125 |
| | Design Engineer II | \$115 |
| | Design Engineer | \$105 |
| | Sr. Technician | \$120 |
| | Technician | \$90 |
| | Clerical/Project Admin. | \$120 |
| GEOTECHNICAL | Department Leader | \$180 |
| | Senior Engineer | \$165 |
| | Design Engineer | \$135 |
| | Technician | \$120 |
| BRIDGE | Department Leader/Senior Project Manager | \$200 |
| | Task Leader/Senior Engineer | \$180 |
| | Engineer II | \$145 |
| | Engineer | \$130 |
| | Technician | \$115 |
| Hydraulics/Hydrology | Task Manager/Senior Engineer | \$175 |
| | Engineer III | \$125 |
| | Engineer | \$105 |
| | Technician | \$90 |
| ENVIRONMENTAL/NEPA | Department Leader | \$225 |
| | Senior Environmental Planner | \$155 |
| | Technician/Jr. Planner | \$110 |
| PUBLIC INVOLVEMENT | Public Involvement manager | \$125 |
| | Clerical | \$95 |
| ELECTRICAL/LIGHTING | Senior Engineer | \$190 |
| | Design Engineer | \$175 |
| | Technician | \$140 |
| URBAN PLANNING/BMP | Landscape Architect Lead | \$140 |
| | Design Landscape Architect | \$130 |