November 14, 2014

MaryAnn.Jacobs@modot.mo.gov

Subject: Local Program (LPA) On-Call Professional Services - Roadway Design

Dear Ms. Jacobs:

The Missouri Department of Transportation (MoDOT) and CDM Smith currently enjoy a strong partnership in transportation planning and design. We are eager to continue expanding that relationship through the roadway design LPA on-call services contract.

GENERAL EXPERIENCE OF THE FIRM

CDM Smith has built our firm by exceeding public and client expectations while finding innovative and cost effective solutions to their challenges. Through our Kansas City, MO office, MoDOT will receive a full range of roadway and civil engineering services, including:

- Roadway Design
- Auxiliary Lane Design
- Ramp Modifications
- Grade Separations
- Stormwater Systems
- Culvert Replacement
- Traffic Signal Design
- Practical Design and VE
- Safety Improvements
- Signing and Lighting
- Cost Estimates
- Intersection Layout
- Roundabout Design
- Environmental Assessment Projects
- NEPA Documents
- Planning and Environmental Linkage Studies

Whether your project is urban or rural, complex or simple, in a new location or a reconstruction, our roadway design staff offers proven experience and solid solutions to meet your project needs.

PAST PERFORMANCE

CDM Smith consistently ranks among the *Engineering News-Record*'s top 20 engineering firms in the country for planning and design for transportation and highways. CDM Smith staff has completed LPA projects that are relevant both to the task at hand and to the assigned staff. Brief descriptions of these projects include:

Lewis and Clark Expressway – NEPA Re-evaluation and Sterling Avenue and Cement City Road Preliminary Design, Kansas City and Sugar Creek, Missouri. This project consisted of new horizontal and vertical alignments for two miles of an industrial collector and two miles of urban collectors with five creek/river crossings, one BNSF and one KCS railroad crossing through environmentally sensitive brownfield sites with heavy metal, lead, and petroleum contamination. The site is also within the Missouri River Floodplain.

Lewis and Clark Expressway – Sterling Avenue and Cement City Road ROW Design and Final Design, Kansas City and Sugar Creek, Missouri. This project consisted of new horizontal and vertical alignments for two miles of urban collectors with three bridges over Sugar Creek and one bridge over the BNSF railroad through an environmentally sensitive brownfield site with petroleum contamination. The site is also within the Missouri River Floodplain. CDM Smith also provided design for a new Jack C. O'Renick Park location that provides a 911 memorial for the residents of Sugar Creek.

Lewis and Clark Expressway – Expressway and Front Street Preliminary Design and ROW Plans, Kansas City and Sugar Creek, Missouri. CDM Smith was selected for this LPA project to provide preliminary engineering for a new expressway for the City of Sugar Creek. The City of Kansas City is also a participating partner. CDM Smith is providing environmental assessment, geotechnical investigation, roadway design, bridge design, hydraulic analysis and trail/sidewalk coordination. This project consisted of new horizontal and vertical alignments for a new two miles industrial collector with bridges over the Blue River,

a bridge over Rock Creek, and a bridge over the KCS railroad and Hawthorn Road through an environmentally sensitive brownfield site with heavy metal and lead contamination. The site is also within the Missouri River Floodplain.

350 Highway Economic Development, Raytown, MO. CDM Smith completed a corridor study for MoDOT for 350 Highway in the City of Raytown that specifically examined the link between transportation improvements and economic development. The study considered the economic development effects of a different road configuration by looking at the potential land use changes and development that could occur under different scenarios that would change 350 Highway from one-way roadway pairs to a unified two-way stretch of road. CDM Smith then used these development forecasts to identify the benefits to the state and local community as part of a return on investment analysis for the proposed improvements.

I-70 First Tier and Second Tier Environmental Impact Statements (EIS), Kansas City, Missouri. CDM Smith worked with the Missouri DOT to prepare a First Tier EIS for 18 miles of I-70 in the Kansas City area. Several strategies were developed and submitted for addressing transportation needs in the urban corridor and draft and final EIS documents were written and approved. CDM Smith was then contracted to complete the Second Tier EIS for seven miles of the project covering two sections of independent utility. CDM Smith led a multidisciplinary team, including six subconsultants. CDM Smith coordinated the analysis and documentation delivery for all project phases, and was responsible for all client and stakeholder coordination, project communication, scheduling, and budgeting.

Wentzville Parkway South, Wentzville, Missouri. The City of Wentzville is planning a new roadway to serve the community's and the western St. Charles County region's future transportation needs. The proposed roadway, designated as the Wentzville Parkway South Extension, will provide a new connection between I-70 and Highway N. The corridor preservation study was conducted for the area from I-70 Exit 208 south to Wilmer Road, approximately 1.3 miles. The purpose of the study was to establish a corridor to be preserved for the future southward extension of the Wentzville Parkway. The Wentzville Parkway South Corridor Preservation Study included data collection, design criteria memorandum, alignment generation, traffic study, alternative analysis, conceptual design, corridor preservation document, location study report, and public and stakeholder involvement.

Lucy Webb and South Madison Design Study, Raymore, Missouri. The City of Raymore upgraded arterials to City standard in order to better accommodate existing and future traffic demands. CDM Smith was selected as part of a team by the City to design roadway and intersection improvements for South Madison Street and Lucy Webb Road. The study included street widening, storm water, bicycle and pedestrian facilities, as well as intersection geometric improvements. Key project elements included traffic data collection, intersection signalization needs, pedestrian facilities and crossings, and roadway and intersection geometric improvements.

Intersection Improvements – Blue Ridge Boulevard and Wornall Road, Kansas City, Missouri. This project is the final design for the Blue Ridge and Wornall intersection study completed by CDM Smith in January 2006. The previous intersection was a congested four-way stop intersection with a high crash rate and poor drainage. CDM Smith study recommendations were based on an ultimate four lane solution for Blue Ridge Boulevard. Due to budget constraints, the City requested a two-lane solution be constructed. CDM Smith was retained by Jackson County to develop improvements that would provide signalization, turn lanes, and drainage improvements, including:

- Replacing 60" pipe culvert under Wornall Road with a 6'x12' box culvert
- Adding left-turn lanes and widening receiving lanes
- Adding signals with pedestrian actuation
- Construction plan to minimize utility relocation
- Coordinating with City water line upgrade
- Connecting new signals to Operation Green Light

QUALIFICATIONS OF PERSONNEL

Barbara Wells, PE: Ms. Wells has more than 19 years of experience in highway design, including horizontal and vertical geometry, drainage, traffic control, and inspection, plus more than 10 years of planning studies, including

preparing Access Justification Reports and providing quality control for NEPA documents. Her relevant projects include managing the Bella Vista project in southwest Missouri and the M-150/Botts Road DDI in south Kansas City, and serving as quality manager for the I-70 Second Tier EIS in Kansas City.

Chris Nazar, AICP: Mr. Nazar served as project manager for MoDOT's I-70 First Tier and Second Tier EISs and represented CDM Smith as task leader for environmental revaluation on the I-70 SEIS. He brings more than 14 years of experience managing environmental and transportation planning projects. His technical specialties include transportation planning, environmental studies, economic impact analyses, and public involvement. He offers extensive experience with all levels of NEPA analysis and processes and has led and participated in numerous complex environmental impact statements and corridor plans in dense urban areas.

Nathan Hladky, PE, PTOE: Mr. Hladky brings nine years of experience in roadway design, specializing in intersection and traffic signal design. He has experience in all roadway design aspects, including horizontal and vertical alignments, storm drainage design, pavement markings and signage, traffic signal design, and roadway lighting. His project experience includes the design of I-435 and Route 210 Diverging Diamond Interchange, design of the I-35 and Pleasant Valley Road Interchange, both in Kansas City; and the following projects in the Kansas City Metropolitan Area: US-69 (Vivion Road) and North Brighton Avenue, I-70 and Adams Dairy Parkway Traffic Signals, Highway 7 and Mock Avenue Traffic Signals, Adams Dairy Parkway, and Coronado Avenue Traffic Signals.

Dana Frishman, PE: Mr. Frishman is a design engineer with 18 years of experience designing transportation projects, including roadways, interchanges, intersections, roundabouts, as well as drainage. His relevant projects include design of Route 7 Improvements, Southwest Ridgeview Drive to Colbern Road, Blue Springs, MO; design of Red Bridge Road reconstruction, Kansas City, MO; and design of North Brighton Avenue reconstruction, Kansas City, MO.

Allan Zafft: Mr. Zafft has more than 13 years of experience in environmental and transportation planning, including all levels of NEPA analysis and processes, and developing and administering programs, policies and projects in compliance with state and federal regulations. His experience includes seven years of leading teams of engineers, planners, and environmental specialists in preparation of complex environmental documents and corridors studies. His experience includes US 69 Bridges over the Missouri River Environmental Assessment; I-70 First and Second Tier EISs, I-470 Purpose and Need Study; and Route 45 Location Study.

FAMILIARITY/CAPABILITY

As described previously, CDM Smith team members are experienced in roadway design for both MoDOT as well as municipalities throughout Missouri. We are familiar with MoDOT policies and procedures, and have been/are currently involved in various design and study projects studies throughout the state, including the MoDOT State Freight Plan, Truck-Only Study, and interstate interchange design projects.

ACCESSIBILITY

We have structured the team such to provide redundancy of personnel, enabling MoDOT to have access to the appropriate specialists on roadway design assignments. Team members are based in CDM Smith's Kansas City, MO office and capable of working on site, as required by each project. Each person will be accessible via e-mail and cell phone/landline when not working on site at a MoDOT project.

CDM Smith is committed to work with MoDOT in a flexible manner to ensure the consistent quality delivery of our work. Please feel free to contact me at 816.444.8270 if you have any questions concerning this letter of interest.

Respectfully Submitted,

Barbara L. Wells, PE
Client Service Manager
CDM Smith Inc.

CDM Smith

Transportation Services for Public Agencies

Planning and Policy

CDM Smith brings a comprehensive, multi-disciplined problem-solving approach to every client. We embrace and foster a team approach, which is especially important in transportation planning, as no study or project has a single focus. Planning is about integrating infrastructure and quality of life elements to enhance our lifestyles and the environment. CDM Smith offers a full range of transportation planning services including:

- Customer focused program evaluation
- Evacuation planning
- Freight, modal, and intermodal plans
- Geospatial technologies
- Guidebook and guidance manual development and training
- Modeling
- Multimodal planning
- Multi-state corridor studies
- Policy studies
- Stakeholder outreach and involvement

Trade and Transportation Studies and Corridor Studies

More than 40 " priority " corridors have been designated by the U.S. Congress since the passage of the ISTEA transportation bill. Many have a trade and even international trade orientation, most are oriented toward economic development. CDM Smith has worked on more than 14 of these designated corridors to analyze multimodal conditions and recommend projects, technology improvements, and improve access, mobility, and trade competitiveness.

Freight Planning

Integrated freight systems are important to the economy and safety of the motoring public. CDM Smith recognizes that a systems approach to transportation planning and engineering is fundamental to the development of effective transportation delivery and services. CDM Smith has successfully integrated multi-disciplinary teams to develop some of the world's most innovative freight plans.

Geospatial Technologies and GIS

The demand for processing and understanding information in a spatial context has grown rapidly during the last two decades. In response to this, CDM Smith has established itself as a leader in planning, developing, implementing, and maintaining geographic information systems in support of complex transportation projects.

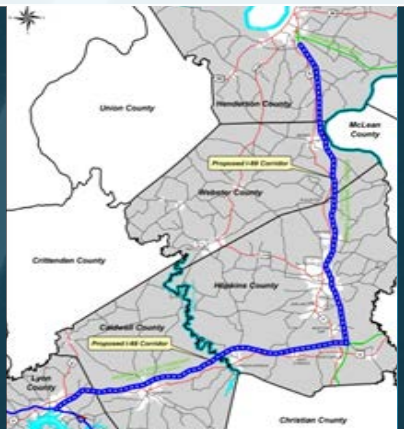
Travel Demand Modeling

Travel demand modeling and forecasting have been mainstays of CDM Smith for over 50 years. We have been responsible for developing computer-based models and supporting databases that provide a rational basis for evaluating proposed transportation system improvements in hundreds of urbanized areas, multi-jurisdiction transportation corridors, regions, and states.

State DOT and MPO Planning

CDM Smith's state DOT and MPO Planning practice focuses on the development of multimodal transportation plans that help prioritize transportation needs against available funding. We help developed state and metropolitan federally-mandated long-range transportation planning, corridor and sub-area planning, congestion management, thoroughfare, and strategic planning.

I-70 Dedicated Truck Lanes Feasibility Study: CDM Smith assisted the I-70 Corridor Coalition to evaluate the feasibility of creating an 800-mile dedicated truck only lanes corridor. This project was the most comprehensive business case evaluation of dedicated truck lanes ever conducted; thereby advancing the understanding of this innovative design concept.



Statewide Corridor Planning Guidebook: CDM Smith conducted a research study to provide guidance on developing corridor plans that can effectively link long-range transportation plans to shorter-term state transportation improvement programs (STIPs).

Airport Cooperative Research Program (ACRP) 02-10: Practical Greenhouse Gas Emission Reduction Strategies for Airports: CDM Smith developed a handbook, interactive decision-support tool, and awareness training materials focused on reducing greenhouse gas emissions. 125 greenhouse gas reduction strategies were identified. A unique, interactive decision-support tool called AirportGEAR (Airport Greenhouse Gas Emission Assessment and Reduction) was created to assist users with the evaluation of technical data and select strategies.

Environmental Services

NEPA and Permitting

CDM Smith provides "one stop shopping" for National Environmental Policy Act studies and documentation. We know the regulations, design and implement successful public outreach, prepare reader friendly documents, and have developed award winning tools, techniques, and processes to streamline the NEPA process. CDM Smith can also help secure federal, state, and local environmental permits during construction and operation.

Greenhouse Gas and Sustainability

CDM Smith is a recognized leader in sustainability planning, greenhouse gas accounting and mitigation, and climate change adaptation for all modes of transportation. As a full service firm with interdisciplinary expertise our capabilities are based in real-world experience and our knowledge of cutting-edge developments in these growing fields.

Water Resource Capabilities for Transportation Projects

CDM Smith is a recognized leader for storm water management in the transportation industry. CDM Smith provides a full range of services including program management with implementation, reporting, BMP design, and TMDL water quality services to address permit compliance requirements associated with discharging storm water run-off from DOT rights-of-way. In addition, CDM Smith has experience with the construction aspect of project delivery with experience in storm water pollution plan design, on-site inspection capability, training and certification in the area of erosion and sediment control, and with traditional highway drainage system design and post-construction water quality control design.

Hazardous Materials

CDM Smith's experience includes thousands of assignments encompassing all facets of hazardous, toxic, and radioactive waste remediation services from preliminary investigations through remedial action implementation and long-term operations and monitoring. Complementing our focus on practical applications, CDM Smith's research and development activities have led to innovative technologies and cost-effective solutions.

Environmental Remediation and Decommissioning Services: CDM Smith performed hazardous waste remediation, transportation, disposal, site restoration, and regulatory reporting in support of The John A Volpe National Transportation Systems Center and their sponsor FAA at Very High Frequency Omnidirectional Range (VOR) radar sites.

Milton-Madison Bridge: CDM Smith coordinated a joint effort between the Kentucky Transportation Cabinet, the Indiana Department of Transportation, and the Federal Highway Administration, to prepare the NEPA documents for the bridge replacement/rehabilitation project for the historic U.S. 421 bridge between Milton, KY and Madison, IN.

Louisiana 1 Improvements: CDM Smith handled all aspects of this improvement project including route planning, environmental permitting, navigational channel permitting, right-of-way acquisition, roadway design, structural design, toll studies and design, and construction assistance.

EXPRESS INTERSTATE 95 TOLL LANES SM

General Engineering Consultant – Interstate 95, Section 100: As part of a joint venture, CDM Smith provided total program management for the design and construction of one of the most congested sections of I-95 in Maryland. The scope of the project includes the widening of I-95 and the construction of four Express Toll Lanes.

Engineering, Construction, and Program Management

Engineering and Design: Roadway, Structures and Bridges, Geotechnical

CDM Smith provides a full range of services for all types of roadways, such as roadway and interchange design, roadway surfacing, and rehabilitation; hydrology and hydraulics; right of way; utility coordination; survey; streetscaping and landscaping; and value engineering. We are a leader in contemporary bridge technology, involving nearly every bridge configuration and type of transportation structure. We also integrate geotechnical engineering, pavement design, and foundation/site-related construction services into the design of our transportation projects.

Construction Management/Construction Engineering and Inspection

For nearly 30 years, CDM Smith has been providing not only CEI services, but overall management of the construction process. Our services have expanded into airport and marine terminal construction, industrial facilities, and parking structures, and this work is supported by claims review and analysis, construction scheduling, and work zone safety and education.

Design/Build

CDM Smith has earned a reputation as a national leader in design/build projects emphasizing innovation and fast track delivery, with dozens of completed projects throughout the U.S. On transportation design/build projects, we have provided design project management, engineering and design services, QA/QC, and CEI.

Program Management

We provide total program management for transportation projects; services include development of design criteria, plan and bid reviews, QA procedures review, value engineering, procurement, conducting partnering sessions, invoice review, and construction management. Our approach includes providing personnel with compatible experience and relationships to be able to serve as an extension of the client's staff.

Parking Services

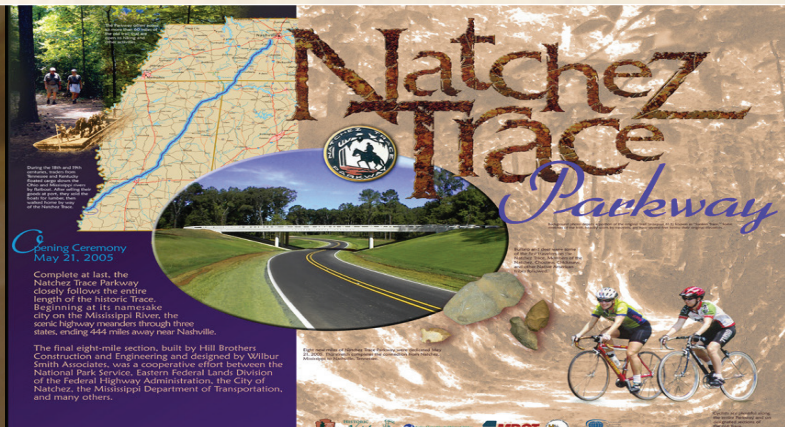
CDM Smith's parking services offers comprehensive planning, studies, traffic analysis, design, inspection, and rehabilitation of parking structures and facilities (both surface and garage). We also serve parking clients in the privatization of parking facilities.

Signage and Wayfinding

The effective movement of visitors in unfamiliar environments requires well-conceived wayfinding systems and signage programs that guide users along the journey to their destinations. For decades, we have provided comprehensive services for the planning, design, and implementation of functional and attractive wayfinding systems.

Lewis and Clark Expressway - Sterling Avenue and Cement City Road Final Design: This project consisted of new horizontal and vertical alignments for 2 miles of urban collectors with 3 bridges over Sugar Creek and one bridge over the BNSF railroad through an environmentally sensitive brownfield site with petroleum contamination. CDM Smith also provided design for a new Jack C. O'Renick Park location.

Natchez Trace Parkway Design/Build National Park Service: CDM Smith provided design and construction documents including geotechnical engineering, roadway design, hydraulics and hydrology, and bridge design for this historical national treasure.



Operations and Maintenance Business Information Link (OMBIL): Since 1993, CDM Smith has supported the U.S. Army Corps of Engineers with a performance-based management system that ensures efficient investment in its vast inventory of nationwide services including waterborne navigation, hydro-power, and recreation facilities.

Asset Management, Economics, and Economic Development

Asset Management

CDM Smith has been a national leader implementing asset management programs in transportation for over five decades. Our expert staff views asset management as a business model applying AASHTO and TRB principles to guide clients on best practices and make informed resource allocation decisions across the lifecycles of entire asset portfolios. Asset management services include:

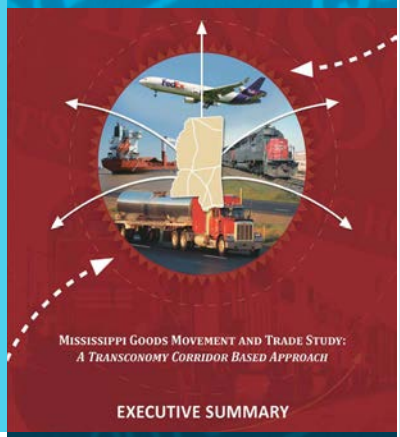
- Developing policy and doctrine to better align and advance organizational goals and regulatory compliance
- Incorporating and establishing service standards
- Establishing procedures to streamline data management and IT utilization
- Developing and deploying performance-based metrics, measures, and analysis techniques to standardize and support objective decision making
- Developing structured, yet interactive, data-driven business case analysis methodologies
- Implementing performance monitoring procedures and plans
- Purposing and implementing integrated information systems including GIS, maintenance management, financial, personnel, and inventory management systems.
- Implementing and complying with GASB and other reporting objectives

Economics and Economic Development

Our new economy will be export-driven and innovation focused. Globalization has created new market opportunities around the world and businesses compete on the basis of accessibility and reliability of multimodal transportation networks.

CDM Smith is a leading provider of economic development and market analysis consulting services. We combine extensive industry knowledge, distinguished professionals, and innovative analysis to help our clients create innovative solutions. Our range of services include:

- Agriculture and rural development
- Benefit-cost analyses
- Economic development studies
- Economic evaluations
- Economic feasibility studies
- Economic impact studies
- Economic modeling
- Fiscal/cost of growth studies



The Mississippi Statewide Goods Movement and Trade Study: CDM Smith profiled existing economic, trade and transportation conditions in the state to create a comprehensive knowledge base about its multimodal transportation network.

Site selection Matrix- Major Industrial Facilities - The Delta Regional Authority: CDM Smith was selected to develop a multi-state site evaluation matrix to identify potential sites for a very complex industrial facility.