

# On-Call Construction Inspection

## ABOUT US

Howe Company, LLC (Howe Co) started business in 2014 when Shannon Howe purchased the Missouri County bridge engineering and land surveying business from a previous employer. The majority of our team has 15-30 years' experience with local agency bridges. Our focus on rapid delivery of projects has raised the bar on performance and allowed many Local Agencies to complete projects faster than ever before. We have been fortunate to have several clients trust us to deliver multiple projects for their communities in the form of repeat work.

## CAPACITY & CAPABILITY

We can handle the construction inspection of 15-20 LPA projects per year and may include the construction of:

- bridges
- roads & streets
- sidewalks, trails
- drainage structures,
- site developments
- river terminals
- ferry landings
- steel buildings
- masonry buildings
- retaining walls
- storm water facilities

We maintain multiple sets on concrete testing equipment so we can cover multiple projects at any time. Our concrete testing lab includes an inventory of cylinder molds, multiple curing tanks, and a calibrated cylinder test machine. We have the capacity to make/use both 4" and 6" test cylinders.

## TECHNICAL EXPERTISE & EXPERIENCE

The majority of our staff that work on LPA projects has been through the MoDOT LPA Basic Training Level 1, the MoDOT certification process for field testing of concrete, and a few have the required certifications to test concrete compression samples in our laboratory. In addition to the MoDOT certifications, we provide in-house training that is specific to the types of projects we have with LPA clients. In order to help our field staff do their job well, we also develop and issue a construction inspection reference manual that provides background information and guidance on various inspection duties and construction topics. The supervision of our construction inspection efforts is led by a registered structural engineer.



Engineers • Land Surveyors

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In addition to construction inspection and concrete testing, we have much experience with the following:

- Assembly of construction contracts
- Preparation for and administration of pre-construction conferences
- Review of Shop drawings and material submittals
- Review of certified payrolls
- Employee Interviews
- Review of the required on-site board postings
- Review of pay requests
- Preparation of progress invoices
- Progress Reports
- Daily Diary Entries
- Semi-final Inspections
- DBE CUF Interviews
- Project Close-out Administration



We also have experience with many of the unpleasant circumstances that can develop during a construction project including:

- Concrete that does not reach design strength.
- Damaged girders.
- Contractor over on time.
- Contractor fails to perform.
- Contractor defaults & bonding company is called in.
- Damage to the substructure during construction.
- Differing site conditions

We have been through a variety of FHWA compliance reviews. These reviews went well and helped us be better prepared to help our clients comply with the federal requirements.



HOWE COMPANY,LLC CONSTRUCTION INSPECTION EXPERIENCE SUMMARY  OCTOBER 2014	Shannon Howe, P.E., S.E.	Aaron Lukefahr , E.I.	Beth Moots	Pat Boren	Ron Urton, P.E.	Wayne Howe	Jeff Roberts
Yrs Experience with MoDOT LPA Program	18	2	15	4	10	1	3
Yrs Experience with similar type work	18	2	15	10	20	10	20
Construction Staking	X		X	X	X		
Check structure layout	X			X	X		X
Pile Driving – End Bearing Piles (HP)	X	X	X		X		X
Pile Driving – Friction Piles (CIP)	X	X	X		X	X	X
Drilled Shafts	X						
Footings on Rock / Shale	X	X			X	X	X
Footings on Piles	X				X	X	X
Reinforcing Steel Placement - Substructure	X	X			X	X	X
Concrete Placement – Substructure	X	X	X	X	X	X	X
Girder Placement – Prestressed Concrete	X		X				
Girder Placement – Steel WF	X	X	X		X		X
Girder Placement – Steel Plate Girder	X	X	X				
Precast Concrete Slab Superstructure	X	X			X	X	X
Concrete Deck Panels	X						
Corrugated Steel Stay In Place Forms	X	X			X	X	X
Reinforcing Steel Placement - Superstructure	X	X			X	X	X
Deck Machine Settings	X	X			X		
Concrete Placement - Superstructure	X	X	X	X	X	X	X
Steel Rail on Bridge	X	X			X		
Steel Rail – Roadway	X	X			X		
Concrete Rail on Bridge	X						
Roadway Grading	X	X			X		X
Erosion Control Measures	X	X			X		
Surfacing – Concrete	X				X		X
Surfacing – Asphalt	X				X		X
Surfacing – Aggregate	X	X			X	X	X
Traffic Control Signs & Barricades	X	X			X	X	X
Concrete Field Testing for Slump & Air	X	X	X	X	X	X	X
Lab Testing of Strength Specimens	X	X				X	
Use of Dynamic Cone Penetrometer -	X				X		
Pre-Construction Conference Administration	X				X		
Review Materials Certifications	X	X			X		
Review Shop Drawings	X	X			X		X
Review Labor Reports		X			X		X
Review Pay Requests	X	X			X		
Prepare Progress Invoices / Reimbursements	X						
Daily Diary Entries	X	X	X		X	X	X
Pay Diary Entries	X	X			X	X	X
Semi-Final & Final Inspections	X	X			X	X	
Project Close-out	X	X			X		
Soft Match Credit Submittals	X		X				
Steel Building Construction Inspection	X						
Masonry Construction Inspection	X						



**Mercer County Bridge 03300212** - This is a 24.5 feet wide x 75 feet long, single span pre-stressed concrete girder bridge. The design was completed in approximately 5 months. Construction cost is estimated at \$268,000.

Reference: Clifford Shipley.,  
Presiding Commissioner  
Phone: (660) 748-3425



**Lewis County - Canton Port Authority Improvements to Ferry Landing, Street Entrance and Loading Ramp -ARRA-FB03(006) Canton, MO**

This project included upgrading the gravel entrance, driveway, staging area, and parking area with concrete pavement. In addition, a structural steel ramp was provided to help vehicles with long overhang access to the ferry.

Reference: Bill Smith, Director (660) 341-0145



**Lafayette County Bridge 27900071** - This is a 24.5 feet wide x 138 feet long, three span slab bridge. The design was completed in about 6 months. Construction cost is estimated at \$435,000.

Reference: Harold Hoflander, Presiding Commissioner

Phone: (660) 259-4315



**Princeton R-V Driveways, Parking, Pavement, Drainage, & Retaining Wall Improvements**

This project included upgrading gravel drives and parking areas to concrete pavement, installation of curb & gutter, curb inlets & storm water piping, and a retaining wall around the athletic field. Benton & Associates, Inc. provided construction inspection and testing of concrete. The subgrade was checked for uniformity using a dynamic cone penetrometer.

Reference: Terry Mayfield,  
Past Superintendent  
Phone: (816)718-0357