

Siahr Siddiqi

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PROFESSIONAL WORK EXPERIENCE

Massachusetts Department of Transportation

June 2014-Current

Project Development and Design

- Assignments and Projects:
 - Design of complete-street in Holden, Massachusetts
 - Review request for proposals, project plans, drawings and specification
 - Understand and review project schedules
 - Review of Improvements on traffic safety
 - Understand the role of using complete street design
 - Roundabout design and traffic impact studies
 - Follow guidelines for healthy transportation in the design
 - In-house design of Exits 24, 25A, 25B of I-290
 - Review and understand detailed project design estimates for work to be performed including:
 - Conduct preliminary surveys
 - Prepare schematic and work drawings
 - Prepare design estimate
 - Field work and measurement
 - Review final estimates
 - Review design and perform estimate of the following quantities for Millbury Route I-90
 - Guardrail, unclassified excavation, fine grading and compaction
 - Drainage structure, precast concrete median barrier, gravel borrow, compost filter tube
 - Stormwater management
 - Review shop drawings submittals
 - Inspect existing facilities to ascertain their condition
 - Prepare reports depicting the condition, deficiencies observed, designs necessary for repairs, and estimated cost of repairs.
- Assisting project manager with project development during design phase
- Familiarity with Project Development and Design Guide (PDDG)
- Environmental Procedures and processes for working in wetland areas
- Attend bi-weekly meetings pertaining to the progress of the projects

Bridge Inspection and Design

- Assignments and Projects:
 - Preparing design estimate for rehabilitation of:
 - 12 bridges using construction plans
 - Steel reinforcement for bridge rehabilitation
 - Electrical conduits
 - Calculate Bridge deck elevation
- Learn and familiarity with bridge ratings according to AASHTO and ACI
- Bridge design and inspection
- Learn and familiarity with site application module (SAM) and Sharepoint
- Record daily log for construction on LL books
- Prepare excel calculation book for construction equipment used in the site

Traffic Engineering

- Review traffic management plans for a bridge replacement project in route 146 Millbury
- Compute clearance interval time for signalized intersection
- Apply MUTCD guidelines in temporary management plans
- Prepare work orders for installation of warning signs
- Signal inspection
- Perform field maintenance work

Construction Engineering

- Assignments and projects
 - Assigned as Field Engineer to the following projects:

- Burns Memorial Bridge Replacement in Route 9
 - Inspect the work contractor and subcontractor to insure conformance to plans, specifications and standard of good workmanship
 - Knowledge of and maintained conformity to contract plans, special provision, standard specifications and S.O.P
 - Awareness of the contractor's progress and schedule of operations
 - Excavation, back fill and compaction
 - Application of bridge deck membrane
 - Quality assurance and quality control
 - Keep accurate notes and records of activities done by contractor
 - Complete inspection and reported in timely manner
 - Learn about Design/Bid projects
 - Concrete deck placement, HMA paving, Bridge deck membrane application
 - Prepare punch list for completion of work
- Boston Road, Sutton, MA
 - Demonstrate knowledge of calculation procedures and formulas and complex calculation in timely manner
 - Neat sketches and calculation suitable for final submission
 - Attend by-weekly meetings with Contractor, Consultants, Sub-contractors, town and city representatives
 - Daily communication with Resident Engineer/Supervisor on project
 - Collect samples and conduct field testing
 - Manage subcontract change order scopes
 - Compare subcontract estimates with established contract requirement
 - Review work package to ensure consistency with estimate
 - Check-dams for storm management
- Route 146 Millbury, MA
 - Inspection of the following for conformance with Specs and Plans
 - Elastomeric coating for concrete barrier protection
 - Guardrail, catch basins and manholes, clearing and grubbing
 - Excavation, back fill and compaction
 - Micro milling and HMA paving testing (Coring)
 - Perform complex mathematical calculation
 - Site safety check and management
 - Bridge joint replacement
 - Coordinate daily traffic pattern
- All Electronic Tolling, Massachusetts I-90 and ITS project District wide
 - Inspect daily work done with contractor, sub-contractor
 - Data entry for QCL books/Excel
 - Daily logging for construction activities in Share point
 - Field test for concrete (slump, air, temperature) for drilled shaft
 - Inspect loop cutting, hand hole installation, electric testing and acceptance

EDUCATION

Civil Engineering Bachelor of Science, *Clarkson University* (Potsdam, NY)
Cumulative GPA: 3.0/4

Graduated 2013

CERTIFICATES AND LICENSE

Engineering in Training(EIT/FE)

NorthEast Transportation Training and Certification Program (NETTCP):

- ❖ Concrete Inspector
- ❖ Drilled Shaft Inspector
- ❖ Hot Mix Asphalt Inspector
- ❖ Quality Assurance Technologist
- ❖ Soils and Aggregate Inspector
- ❖ Subsurface Inspector

Baystate Roads Program:

- ❖ Trenching & Excavating Safety: Competent Person

American Concrete Institute (ACI):

- ❖ Concrete Field Testing Technician - Grade I

United States Nuclear Regulatory Commission (U.S.NRC):

- ❖ Nuclear Gauge Density

Amtrak Contractor Mass DOT
OSHA 10 Hour Construction Training

SKILLS

Technical: AutoCAD, STAAD.Pro, ArcGIS, MATLAB, GIS, Excellent Microsoft Office skills, Adobe Acrobat, Photoshop
Language: fluent in English, Farsi; conversational in Russian, Urdu and Pashto