

NOTICE OF INVITATION TO BID

Testing and Inspection Services

The Town of Clinton (the "Town") is accepting sealed bids from Testing Agencies for:

New Morgan School
State Project Number: 027-0061 N/PS

Contract Documents are available through BL Graphics 355 Research Parkway, 1st Floor Meriden, CT 06450.

I. Introduction

The Town of Clinton is constructing the New Morgan School (the "Project") on Killingworth Turnpike. The Project consists of a new 141,122 GSF high school. A significant portion of the project will be funded by the Connecticut State Department of Education (SDE). The primary work will include soils inspections, cast-in-place concrete inspections, masonry inspections, structural steel inspections, cold-formed steel framing inspections, and spray-applied fire resistant material inspections. Please see the attached Program of Structural Tests and Inspections developed by the Structural Engineer of Record, Michael Horton Associates, Inc. of Branford CT. The project architect is Newman Architects LLC, Geotechnical Engineer is Langan Engineering & Environmental Services, and the construction company is FIP Construction, Inc.

It is the Bidder's responsibility to register with the office of the First Selectman to receive important addenda, changes and responses to questions submitted by other prospective Bidders. The Town of Clinton assumes no responsibilities for errors or omission in responses due to failure to register with the Office of the First Selectman.

It is strongly recommended that you e-mail the following information to mschettino@clintonct.org.

Company Name: _____

Representative: _____

e-mail Address: _____

Phone Number: _____

II. Schedule

1. Construction is anticipated to begin in September, 2014 and be complete by Late Spring 2016.
2. All Requests for Information (RFI's) shall be received prior to 4:00 PM on Thursday, August 14, 2014. RFI's shall be e-mailed to Mary Schettino at MSchettino@clintonct.org. It is the bidders responsibility to register with the Office of the First Selectman.
3. Addenda will be issued not less than three business days prior to Bid due date.
4. Sealed bids will be accepted by the Town of Clinton until **2:00 PM on Thursday, August 21, 2014**. Bids will be hand or courier delivered to Ms Mary Schettino in the First Selectman's Office located at the Clinton Town Hall, 54 East Main Street, Clinton, Connecticut 06413. Bids received after the deadline will not be considered, unless this rule is waived by the Committee at its sole and absolute discretion. The Town, Committee, and their respective employees or representatives, will not be responsible for delays in delivery for any reason.

III. Special Instructions

1. This will be a unit cost proposal. See Bid Form for requested pricing.
2. Unit costs are to include all applicable testing equipment and supplies.
3. Billing will be for actual time on site. Travel time to and from the jobsite will not be reimbursed.
4. There will be no cancellation charges if inspections are rescheduled by 3:00 p.m. the prior day.
5. It is understood there will be a four- (4-) hour minimum for all on-site inspections.
6. All testing and inspections are to be scheduled through the FIP Project Superintendent.
7. Geotechnical Engineering and Special Inspection services will be performed by others and are not part of this proposal.
8. Testing laboratory and individual technician credentials must be in accordance with the Statement of Special Inspections and Specifications.
9. Handwritten inspection results are to be provided to the FIP Superintendent before the inspector leaves site each day.
10. All formal inspection reports will be provided via e-mail or fax to the designated project team within 72 hours of inspection or test results. Hard copies to be provided within 7 days.

IV. Reserved Rights

1. The Town and Committee reserve the rights to amend, modify or alter the anticipated schedule described in Section (II). Changes to the dates in (II) (1) through (2) will be done by Addendum.
2. The Town and/or Committee (through the issuance of Addenda) may modify, supplement or amend the provisions of this Invitation to Bid in order to respond to

inquiries received from prospective Responders or as otherwise deemed necessary or appropriate by the Town and/or the Committee in their discretion.

3. The Town and/or Committee may reject any or all Responses for such reason as it may deem proper. The Town and/or Committee also reserve the right to waive any non-conformity in any Responses. The Town and/or Committee may accept modifications and clarifications of a Response when such action will be in the best interests of the Town.
4. The Town is under no obligation to complete all or any portion of the qualification and procurement process described in this Invitation to Bid. The Town and Committee reserve the right to withdraw this Invitation to Bid and/or to reject all Responses. In any such event, the Town and/or Committee may commence a new qualification and/or procurement process, or take such other actions as it deems appropriate, without any obligation to prospective Responders or Responders.

V. Scope of Services

I. Soils

a. Shallow Foundations:

- i. Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.
- ii. Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill.

b. Controlled Structural Fill:

- i. Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material.
- ii. Inspect placement, lift thickness and compaction of controlled fill.
- iii. Test density of each lift of fill by nuclear methods (ASTM D2922).
- iv. Verify extent and slope of fill placement.

II. Cast-in-Place Concrete

a. Mix Design

- i. Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.

b. Material Certification

c. Reinforcement Installation

- i. Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious material. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters.

d. Welding of Reinforcing

- i. Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required.

- e. Anchor Rods
 - i. Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.
- f. Concrete Placement
 - i. Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
- g. Sampling and Testing of Concrete:
 - i. Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064)
- h. Curing and Protection
 - i. Inspect curing, cold weather protection and hot weather protection procedures.

III. Masonry

- a. Material Certification
- b. Mixing of Mortar and Grout
 - i. Inspect proportioning, mixing and retempering of mortar and grout.
- c. Installation of Masonry
 - i. Inspect size, layout, bonding and placement of masonry units.
- d. Mortar joints
 - i. Inspect construction of mortar joints including tooling and filling of head joints.
- e. Reinforcement Installation
 - i. Inspect placement, positioning and lapping of reinforcing steel.
 - ii. Inspect welding of reinforcing steel.
- f. Prestressed Masonry
 - i. Inspect placement, anchorage and stressing of prestressed bars.
- g. Grouting Operations
 - i. Inspect placement and consolidation of grout. Inspect masonry clean-outs for high-lift grouting.
- h. Weather Protection
 - i. Inspect cold weather protection and hot weather protection procedure. Verify that wall cavities are protected against precipitation.
- i. Evaluation of Masonry Strength
 - i. Test compressive strength of mortar and grout cube samples (ASTM C780).
 - ii. Test compressive strength of masonry prisms (ASTM C1314).
- j. Anchors and Ties
 - i. Inspect size, location, spacing, and embedment of dowels, anchors and ties.

IV. Structural Steel

- a. Fabricator Certification / Quality Control Procedures
 - i. Review shop fabrication and quality control procedures.

- b. Material Certification
 - i. Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes.
- c. Open Web Steel Joists
 - i. Inspect installation, field welding and bridging of joists.
- d. Bolting
 - i. Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence. Continuous inspection of bolts in slip-critical connections.
- e. Welding
 - i. Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds.
 - ii. Ultrasonic testing of all full-penetration welds.
- f. Shear Connectors
 - i. Inspect size, number, positioning and welding of shear connectors. Inspect studs for full 360 degree flash. Ring test all shear connectors with a 3 lb hammer. Bend test all questionable studs to 15 degrees.
- g. Structural Details
 - i. Inspect steel frame for compliance with structural drawings, include bracing, member configuration and connection details.
- h. Metal Deck
 - i. Inspect welding and side-lap fastening of metal floor deck. Inspect pneumatic fastening and side lap fastening of metal roof deck.
- V. Cold-Formed Steel Framing
 - a. Member Sizes
 - i. Inspect size of members for conformance to the Contract Documents and shop drawings, for work constructed.
 - b. Material Thickness
 - i. Review product data submission for conformance with the Contract Documents and shop drawings, for work constructed.
 - c. Material Properties
 - i. Review Product data submission for conformance with the Contract Documents and shop drawings, for work constructed.
 - d. Mechanical Connections
 - i. Review installation of screw connections for conformance with the Contract Documents and shop drawings, for work constructed.
 - e. Welding
 - i. Review installation of welded connections for conformance with the Contract Documents and shop drawings, for work constructed.
 - f. Framing Detail
 - i. Review installation of cold formed structural metal framing for conformance with the Contract Documents and shop drawings, for work constructed.

- g. Other
 - i. Inspect size, location, spacing and attachment of the wind screen assembly per the manufacturers shop drawings.

VI. Spray-Applied Fire Resistant Material

- a. Laboratory Tested Fire Resistance Design
 - i. Review UL fire resistive design for each rated beam, column, or assembly.
- b. Schedule of Thickness
 - i. Review approved thickness schedule.
- c. Surface Preparation
 - i. Inspect surface preparation of steel prior to application of fireproofing.
- d. Application
 - i. Inspect application of fireproofing.
- e. Curing and Ambient Condition
 - i. Verify ambient air temperature and ventilation is suitable for application and curing of fireproofing.
- f. Thickness
 - i. Test thickness of fireproofing (ASTM E605). Perform a set of thickness measurements for every, 1,000 SF of floor and roof assemblies and on not less than 25% of rated beams and columns.
- g. Density
 - i. Test the density of fireproofing material (ASTM E605).
- h. Bond Strength
 - i. Test the cohesive / adhesive bond strength of fireproofing (ASTM E736). Perform not less than one test for each 10,000 SF.

VI. Selection Process

The Town, acting through its Morgan School Building Committee (the "Committee") may conduct interviews with some or all candidates. The final selection of the Testing Agency will be made after the interviews. The Committee will make the selection that the Committee, in its discretion, determines will be in the best interest of the Town. Such selection will consider the Responses, proposals, and such other information as the Committee determines relevant in its discretion.

Testing lab shall submit and certify an "Agent's Final Report of Special Inspections" at the completion of the work. Test reports shall be submitted by email within 24 hours of performing tests. All testing shall be under the supervision of a Connecticut PE who shall seal and sign reports. Testing lab shall be NVLAP certified for each of the tests performed.

Please provide proposals on the table included on the following page.

Name of Testing & Inspection Company _____ Date: _____

Item	Cat	Description	Amount
1	Soils	Field Density Tests: Services of a technician to conduct field density tests to confirm proper compaction	
2		Per Hour:	
3		Per Trip - 1/2 Day (up to 4 hours):	
4		Per Trip - Full day (4 to 8 Hours):	
5		Sieve Analysis of Soils, conducted at Lab Facility, per sample:	
6		Moisture / Density Relationship of Soils Test, per sample	
7		Electronic Nuclear Moisture / Density Gauge	
8	Cast - in - Place Concrete	Services of a Technician to conduct slump, air content, concrete temperature tests, reinforcing inspection and cast cylinder test specimens	
9		Per Hour:	
10		Per Trip - Half Day:	
11		Per Trip - Full Day:	
12		Cylinder Test Specimens: Per Cylinder	
13		<u>Concrete Plant Inspection</u>	
14		Per Trip - Half Day	
15		Per Trip - Full Day	
16		Mix Design Review	
17	Masonry	Services of a Technician to conduct inspection of masonry construction including the fabrication of mortar and grout specimens	
18		Per Hour:	
19		Per Trip - Half Day:	
20		Per Trip - Full Day:	
21		Compressive Strength test of Mortar & Grout Specimens:	
22		Compressive Strength Test of Prism Specimens:	

23	Structural Steel & LGMF	Services of a certified inspector to perform inspection of fabrication and/or erection procedures, including visual inspection of weldments and testing of hig strength bolted connections	
24		Per Trip - Half Day:	
25		Per Trip - Full Day:	
26		Services of a certified inspector to conduct inspection of light gauge metal framing	
27		Per Trip - Half Day:	
28		Per Trip - Full Day:	
29		Non-Destructive Testing (Ultrasonic / Magnetic Particle)	
30		Per Hour (5 Hour Minimum):	
31		Structural Steel Plant Fabrication Inspection:	
32	Cold-Formed Steel Framing	Per Hour:	
33		Per Trip - Half Day:	
34		Per Trip - Full Day:	
35			
36			
37			
38			
39	Spray-Applied Fire Resistance	Per Hour:	
40		Per Trip - Half Day:	
41		Per Trip - Full Day:	
42			
43			
44			
45	Miscellaneous	Mileage & Pick-up Charges	
46		Mileage Billed at:	
47		Pick-up of Samples:	
48		Review of Contractors Field Quality Control Procedures & Report	
49		Review of each plant or fabricator's quality control procedures, verification of AISC Cert and prepare Report	
50		Report of each contractor's as-built survey - Per Contractor	
51		Review of Material Certifications for conformance with Spec	

Note: Mileage shall be included in all rates above.

Lump Sum Proposal to provide complete Special Inspection Services: _____

VII. Insurance Requirements

The Testing Agent shall, at its own expense and cost, obtain and keep in force during the entire duration of the Services the following insurance coverage covering the Testing Agent and all of its agents, employees, sub-contractors and other providers of all or part of the Services and shall name Owner as an Additional Insured on a primary and non-contributory basis to the Testing Agent Commercial General Liability, Automobile Liability, and Errors and Omissions Liability or Professional Services Liability policies. These requirements shall be clearly stated in the remarks section on the Testing Agent's Certificate of Insurance. Insurance shall be written with insurance carriers approved by Owner. Minimum limits and requirements are stated below:

1. Worker's Compensation Insurance:
 - a. Statutory Coverage
 - b. Employer's Liability
 - c. \$100,000 each accident/\$500,000 disease-policy limit/\$100,000 disease each employee
2. Commercial General Liability:
 - a. Including Premises & Operations, Products and Completed Operations, Personal and Advertising Injury, Contractual Liability and Independent Contractors.
 - b. Limits of Liability for Bodily Injury and Building Damage
Each Occurrence \$1,000,000
Aggregate \$2,000,000 (The Aggregate Limit shall apply separately to each job.)
 - c. A Waiver of Subrogation shall be provided
3. Automobile Insurance:
 - a. Including all owned, hired, borrowed and non-owned vehicles
 - b. Limit of Liability for Bodily Injury and Building Damage:
Per Accident \$1,000,000
4. Errors and Omissions Liability or Professional Services Liability Policy
 - a. Provide Errors and Omissions Liability or Professional Services Liability Policy for a minimum Limit of Liability \$1,000,000 each occurrence or per claim.
 - b. The Owner's Representative agrees to maintain continuous professional liability coverage for the entire duration of this Project and for seven (7) years beyond substantial completion of the Project. Should the Owner's Representative not maintain continuous coverage, the Owner's Representative shall provide for an Extended Reporting Period in which to report claims for five (5) years following the conclusion of the Project.