Request for Qualifications

Town of Woodbridge
Testing Agencies

RFQ Opening Date: May 10th 2013 at 2:00pm

Place: Finance Office
Woodbridge Town Hall
11 Meetinghouse Lane
Woodbridge, CT 06525

The Town of Woodbridge is requesting qualifications of independent construction testing agencies and specific proposals from them for the special inspection program that will support the construction of the new Woodbridge Public Works Garage in Woodbridge, Connecticut.

A Statement of Special Inspections prepared by the Structural Engineer responsible for the design of the building has been prepared and should form the basis of the proposals from the testing agencies. The Statement is attached to and made part of this request.

It is the intention of the Town to nominate the Structural Engineer of Record as the Special Inspector and testing agencies will work in concert with both the Structural Engineer and the Building Official. Information regarding the size, nature and character of the building is available from the Structural Engineer, Thomas A. Torrenti P.E. who may be contacted at: ttorrenti@optonline.net . Non-technical information about this request can be directed to the project's email address at: WoodbridgeDPWProject@woodbridgect.org

The successful agency will document its qualifications as listed on Page 4 of the Statement of Special Inspections and in Section 1703 of the 2003 International Building Code portion of the 2005 State of Connecticut Building Code as it has been amended from time to time.

The Town of Woodbridge is an affirmative action and equal opportunity employer and Town reserves the right to waive any and all formalities in choosing our independent construction testing agency.

Please submit your qualifications and proposal in a sealed envelope to the Finance Director's Office no later than May 10th 2013 by 2:00 p.m. Proposals submitted after this date may not be accepted. The First Selectman or her/his designee may reject any and all bids if, in her/his opinion, it is in the best interest of the Town to do so. Minority/women-owned businesses are encouraged to submit a bid.

Please submit three copies of your qualifications and proposal and be prepared to submit a PDF version of the same information, on request.

Statement of Special Inspections

Project: *Department of Public Works – Garage & Truck Port* ***DRAFT***

Location: *15 Meetinghouse Lane, Woodbridge, CT 06525*

Owner: *Town of Woodbridge, 15 Meetinghouse Lane, Woodbridge, CT 06525*

Design Professional in Responsible Charge: *Thomas A. Torrenti, P.C.*

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This *Statement of Special Inspections* encompass the following disciplines:

☒ Structural ☐ Mechanical/Electrical/Plumbing
☐ Architectural ☐ Other: _____

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency: *Monthly* or ☐ per attached schedule.

Prepared by:

Thomas A. Torrenti, P.E.
(type or print name)

Signature

04/23/2013
Date

Design Professional Seal

Owner's Authorization:

Signature Date

Building Official's Acceptance:

Signature Date

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- ☒ Soils and Foundations
- ☒ Cast-in-Place Concrete
- ☐ Precast Concrete
- ☒ Masonry
- ☒ Structural Steel
- ☐ Cold-Formed Steel Framing
- ☐ Spray Fire Resistant Material
- ☐ Wood Construction
- ☐ Exterior Insulation and Finish System
- ☐ Mechanical & Electrical Systems
- ☐ Architectural Systems
- ☐ Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. **Special Inspection Coordinator**	*Thomas A. Torrenti, P.C.*	*316 Dogburn Lane, P.O. Box 1153* *Orange, CT 06477-7153* *(203) 891-9933* *ttorrenti@optonline.net*
2. Inspector		
3. Inspector		
4. Testing Agency	*To Be Determined*	
5. Testing Agency		
6. Other	*Dr. Clarence Welti, P.E., P.C.* *Geotechnical Engineer*	*227 Williams Street, P.O. Box 397* *Glastonbury, CT 06033* *(860) 633-4623*

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category	*C*
Quality Assurance Plan Required (Y/N)	*N*

Description of seismic force resisting system and designated seismic systems:
Steel Moment Frames (Structural Steel System not Specifically Detailed for Seismic Resistance)

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)	*105 mph*
Wind Exposure Category	*C*
Quality Assurance Plan Required (Y/N)	*N*

Description of wind force resisting system and designated wind resisting components:
Steel Moment Frames (Structural Steel System not Specifically Detailed for Seismic Resistance)

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the *Agency Number* on the Schedule.

PE/SE	Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE	Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT	Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

American Concrete Institute (ACI) Certification

ACI-CFTT	Concrete Field Testing Technician – Grade 1
ACI-CCI	Concrete Construction Inspector
ACI-LTT	Laboratory Testing Technician – Grade 1&2
ACI-STT	Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI	Certified Welding Inspector
AWS/AISC-SSI	Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT	Non-Destructive Testing Technician – Level II or III.

International Code Council (ICC) Certification

ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

Exterior Design Institute (EDI) Certification

EDI-EIFS	EIFS Third Party Inspector

Other

_____ _____

Soils and Foundations

Item	Agency # (Qualif.)	Scope
1. Shallow Foundations	*6 (PE/GE)*	*Visually assess soils below footings for conditions consistent with the project geotechnical report prior to foundation construction.* *Visually assess removal of unsuitable material (e.g. existing fill) within foundation bearing zones and preparation of subgrade prior to placement of controlled fill.*
2. Controlled Structural Fill	*4 (PE/GE)*	*Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) on each source of fill material.* *Observe placement, lift thickness and compaction of controlled fill. Test density of representative lifts of fill by nuclear methods (ASTM D2922) in accordance with the contract documents.* *.Verify slope and extent of fill placement.*
3. Deep Foundations	---	*N/A*
4. Load Testing	---	*N/A*
4. Other:	---	*N/A*

Cast-in-Place Concrete

Item	Agency # (Qualif.)	Scope
1. Mix Design	*4 (PE & ACI)*	*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.*
2. Material Certification	*4 (ACI)*	*Review for conformance with specifications and applicable Codes and Standards.*
3. Reinforcement Installation	*4 (ACI)*	*Inspect size, spacing, cover, positioning and grade of <u>all</u> reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters.*
4. Post-Tensioning Operations	*N/A*	
5. Welding of Reinforcing	*4 (AWS-CWI)*	*Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required.*
6. Anchor Rods	*4 (ACI)*	*Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.*
7. Concrete Placement	*4 (ACI)*	*Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.*
8. Sampling and Testing of Concrete	*4 (ACI)*	*Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).*
9. Curing and Protection	*4 (ACI)*	*Inspect curing, cold weather protection and hot weather protection procedures.*
10. Other:		

Masonry

Required Inspection Level: ☒ **1** ☐ **2**

Item	Agency # (Qualif.)	Scope
1. Material Certification	*4 (ACI)*	*Verify that on site materials used conform to approved submittals.*
2. Mixing of Mortar and Grout	*4 (ACI)*	*Inspect proportioning, mixing and retempering of mortar and grout no less than two days per week.*
3. Installation of Masonry	*4 (ACI)*	*Inspect size, layout, bonding and placement of masonry units, including details of anchorage to masonry and placement of embedded items no less than two days per week.*
4. Mortar Joints	*4 (ACI)*	*Inspect construction of mortar joints including tooling and filling of head joints.*
5. Reinforcement Installation	*4 (ACI)*	*Inspect placement, positioning and lapping of reinforcing steel.*
6. Prestressed Masonry	---	*N/A*
7. Grouting Operations	*4 (ACI)*	*Inspect placement and consolidation of <u>all</u> grouting. Inspect masonry clean-outs for high-lift grouting.*
7. Weather Protection	*4 (ACI)*	*Inspect cold weather protection and hot weather protection procedures. Verify that wall cavities are protected against precipitation.*
9. Evaluation of Masonry Strength	*4 (ACI)*	*Test compressive strength of mortar and grout cube samples (ASTM C780).* *Test compressive strength of masonry prisms (ASTM C1314).*
10. Anchors and Ties	*4 (ACI)*	*Inspect size, location, spacing and embedment of <u>all</u> dowels, anchors and ties.*
11. Other:		*N/A*

Structural Steel

Item	Agency # (Qualif.)	Scope
1. Fabricator Certification/ Quality Control Procedures ☐ Fabricator Exempt	*4 (AWS-AISC)*	*Review shop fabrication and quality control procedures.*
2. Material Certification	*4 (AWS-AISC)*	*Review certified mill test reports and identification markings on wide-flange shapes, hollow structural tubing, high-strength bolts, nuts and welding electrodes*
3. Open Web Steel Joists	---	*N/A*
4. Bolting	*4 (AWS-AISC)*	*Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence.*
5. Welding	*4 (AWS-CWI)* *4 (ASNT)*	*Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds.* *Ultrasonic testing of all full-penetration welds.*
6. Shear Connectors	*4 (AWS/AISC-SSI ICC-SWSI*	*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.*
7. Structural Details	*4 (PE/AWS)*	*Inspect steel framing for compliance with structural drawings, including bracing, member configuration and connection details. Field verify conformance with all structural steel to meet AESS requirements.*
8. Metal Deck	*4 (AWS-CWI)*	*Inspect welding and side-lap fastening of metal floor and roof deck.*
9. Other:		*N/A*