



MANCHESTER WATER WORKS

281 Lincoln Street
Manchester, NH 03103
(603) 624-6494

REQUEST FOR PROPOSAL FY26-804-66
FOR
TESTING AGENT
FOR
ADMINISTRATION & VEHICLE MAINTANANCE BUILDING PROJECT

Manchester Water Works, acting through its Board of Water Commissioners and in accordance with the provisions of Manchester NH Code of Ordinances Chapter 39: Procurement Code, inclusive, seeks proposals from qualified firms to provide Testing Services for our upcoming Administration and Vehicle Storage Facility Building Project.

Sealed Proposals will be received until 2:00pm prevailing time on Thursday the 9th day of July, 2026. Late submissions will not be accepted.

Interested companies may obtain copies of the Requests for Proposal (RFP) documents from the city website: www.manchesternh.gov/Departments/Purchasing/Bid-Opportunitites-and-Results. The City of Manchester, New Hampshire, is an affirmative action equal opportunity employer.

Questions regarding this request should be expressed in writing and directed to Phil Croasdale at pcroasdale@manchesternh.gov.

The Board of Water Commissioners reserves the right to waive any irregularities, reject any or all proposals, and to accept the proposal that appears to be in the best interest of Manchester Water Works. Failure to submit all information called for may be sufficient grounds for disqualification.

Philip W. Croasdale
Director, Manchester Water Works

**Manchester Water Works
Testing Agent**

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REQUEST FOR PROPOSAL

GENERAL INFORMATION:

1. Proposals will be received by the Manchester Water Works at the place and until the time specified in the Request for Proposal. **NO PROPOSAL WILL BE ACCEPTED AFTER TIME AND DATE SPECIFIED.**
2. The following meanings are attached to the defined words when used in this document:
 - a. The word "**Respondent**" means the person, firm, or corporation submitting a proposal on these specifications or any part thereof.
 - b. The word "**Contractor**" means the person, firm, or corporation with whom the Contract is being made by carrying out the provisions of the Sealed Proposal and the Contract.
3. Strict compliance with the requirements of the Request for Proposal, terms and conditions, and the specifications is necessary. All designations and prices shall be fully and clearly set forth. All blank spaces must be filled in.
4. Each Proposal must give the full business address of Respondent and be signed by an authorized signature with their usual signature. Proposals by partnerships must furnish the full names of all partners and must be signed with the partnership name by one of the members of the partnership or by an authorized representative, followed by the signature and title of the person signing. Proposals by corporations must be signed with the legal name of the corporation, followed by the state of incorporation and by the signature and title of president, secretary, or other person authorized to bind it in the matter. The name of each person signing shall also be typed or printed below the signature. A Proposal by a person who affixes to their signature the word "president", "secretary", "agent", or other title without disclosing their principal may be held to be the proposal of the individual signing. When requested by the Manchester Water Works, satisfactory evidence of the authority of the officer signing on behalf of the corporation shall be furnished.
5. Sealed Proposals will be received at the Manchester Water Works office, 281 Lincoln Street, Manchester, New Hampshire, before or at 2 pm prevailing time of the 9th day of July, 2026; no exceptions will be made, where they will publicly be opened and read aloud. Emailed submissions will not be accepted.

All Proposals must be in a sealed package, addressed to Manchester Water Works and clearly marked

“TESTING AGENT”

PLEASE NOTE: MANCHESTER WATER WORKS IS NOT RESPONSIBLE FOR PROPOSALS NOT PROPERLY MARKED.

All proposals shall include the following:

A PROPOSAL FOR TESTING AGENT FOR THE ADMINISTRATION AND VEHICLE STORAGE BUILDING PROJECT.

THREE (3) copies of the sealed Proposal are required.

Manchester Water Works, acting through Board of Water Commissioners, intends to award a contract to a responsible and responsive contractor, whose Proposal has been deemed to be the most advantageous for the Water Works Department, taking into consideration price and the evaluation criteria set forth in the RFP, provided, however, that such Proposal shall be in full compliance with all applicable requirements of federal, state and local laws, including Manchester NH Code of Ordinances Chapter 39: Procurement Code.

An award of a contract pursuant to this RFP will require a favorable vote of the Manchester Board of Water Commissioners.

6. No oral interpretations will be made to any Respondent as to the meaning of the specifications or terms and conditions of this Request for Proposal. Every request for such interpretation or request for a change in the specifications or terms and conditions shall be made in writing to: pcroasdale@manchesternh.gov

And shall be done so five (5) or more working days before the response due date. Every interpretation made to a Respondent will be in the form of an addendum to the Request for Proposal, which, if issued, will be posted promptly as practicable on the City of Manchester Purchasing website: <http://www.manchesternh.gov/bids>

All such addenda shall become a part of the Request for Proposal.

7. Proposals that are incomplete, not properly endorsed or signed, or otherwise contrary to these instructions may be rejected as informal by the Board of Water Commissioners. The Proposal must be filled out completely and accurately. Please explain in detail any exceptions or deviations taken on this Request for Proposal. Separate pages may be used if required.

8. Conditional Proposals will not be accepted. Any exclusions must be in writing to pcroasdale@manchesternh.gov, shall be done so five (5) or more working days before the response due date, and require approval.

9. As Manchester Water Works is exempt from the payment of federal excise taxes, all prices quoted herein are not to include these taxes.

10. All prices and delivery times quoted must be firm, FOB destination, City of Manchester, New Hampshire, unless otherwise indicated by Manchester Water Works.

11. Proposals should include all charges for mobilization, delivery, packing, crating, containers, etc. Unless otherwise stated by the Respondent, Proposals will be considered as being based on delivery to the destination designated, including any and all freight and packing charges.

12. Unless otherwise stated by the Respondent, the Proposal will be considered as being in strict accordance with the specifications outlined in this Request for Proposal. References to a particular trade name, manufacturer's catalogue, or model number, are made for descriptive purposes to guide the Respondent in interpreting the requirements of Manchester Water Works. They should not be construed as excluding Proposals on other types of materials, equipment and supplies. However, the Respondent, if awarded a Contract, will be required to furnish the particular item referred to in the specifications or descriptions unless a departure or substitution is clearly noted and described in the Proposal.

13. Manchester Water Works reserves the right to postpone the delivery date to allow for any change in operating conditions or for any other cause not now foreseen. In the event Manchester Water Works elects to exercise this right, all prices quoted pursuant to this Request for Proposal will remain firm for through the construction project, and Manchester Water Works shall incur no additional obligation to the Contractor on account of any delay of delivery date ordered.

14. The Respondent must certify that no official or employee of Manchester Water Works or State of New Hampshire has a pecuniary interest in the Proposal or in the Contract that the Respondent offers to execute or in the expected profits to arise there from, and that this Proposal is made in good faith without fraud or collusion or connection with any other person submitting a Proposal. Respondent must sign the Non-Collusion form included in this RFP.

15. Proposals may be withdrawn upon written or electronic request received from Respondents prior to the time affixed for opening. Negligence on the part of the Respondent in preparing the Proposal confers no right for the withdrawal of the Proposal after it has been opened.

16. The Board of Water Commissioners reserves the right to waive any informality in Proposals, to reject any and all Proposals wholly or in part, and to make awards in a manner deemed in the best interest of Manchester Water Works.

17. After the Proposals are evaluated, Manchester Water Works reserves the right to conduct interviews of short-listed Respondents or to directly select the top ranked firm presenting the most advantageous offering to Manchester Water Works. In addition, Manchester Water Works reserves the right to written or verbal negotiations with one or more parties who have submitted Proposals. Such negotiations are designed to achieve terms and conditions most favorable to Manchester Water Works.

18. The Contract Agreement will be in the form customarily employed by Manchester Water Works and will incorporate the Request for Proposal with terms & conditions. A copy of the Contract Agreement is attached hereto.

19. The Respondent, if awarded an order or contract, agrees to protect, defend and hold The City of Manchester, Manchester Water Works, MWW's officers, director, partners, employees and agents harmless

against any demand for the use of any patented material, process, article or device that may enter into the manufacture, construction or form a part of the work covered by either order or contract.

20. The Respondent, if awarded an order or contract, agrees to defend, indemnify, and hold harmless The City of Manchester, Manchester Water Works, MWW's officers, directors, partners, employees and agents from all damages to life and property arising out of the performance of this Contract due to the Respondents negligence, that of his employees, subcontractors, etc., or due to the negligence of Manchester Water Works, its employees, representatives, agents, etc.

METHOD OF PAYMENT:

21. Payments: Payment shall be made within 45 days of delivery and acceptance of contracted item(s) or upon receipt of a verified claim for payment, whichever is later. Payment will only be made for work, or material that has been completed or received. All invoices are to be e-mailed to waterworksap@manchesternh.gov for timely processing. If discounts are offered for early payment, payment must be allowed utilizing a City p-card with no additional service charges incurred.

22. The Respondent, if awarded an order or contract, agrees to provide Manchester Water Works proof of Federal Identification Number (IRS Code Section 6723). Acceptable forms of documentation are; a copy of a federal tax depository ticket, copy of IRS label showing name and Federal ID Number, IRS letter of taxpayer Identification Number assigned, other correspondence from the IRS with both individual/business name and Federal Identification or stationery/bills with Federal ID Number (and firm name and address) PREPRINTED on it. Any impertinent information may be blackened out before sending to the City. Copies of tax returns must show taxpayer section and signature.

INDEMNIFICATION AND INSURANCE REQUIREMENTS:

In consideration of the utilization of Respondent's services by the City of Manchester, Manchester Water Works (MWW) and other valuable consideration, the receipt of which is hereby acknowledged, Respondent agrees that all persons furnished by Respondent shall be considered the Respondent's employees or agents and that Respondent shall be responsible for payment of all unemployment, social security and other payroll taxes including contributions from them when required by law.

Respondent shall indemnify MWW from Claims caused by Respondent's negligence

To the fullest extent permitted by law, Respondent shall indemnify and hold harmless The City of Manchester, MWW, MWW's officers, directors, partners, employees and agents from and against any and all claims, costs, losses and damages (including but not limited to all fees and charges of engineers, architects, attorneys and other professionals and all court or arbitration or other dispute resolution costs) caused solely by the negligent acts or omissions of Respondent or Respondent's officers, directors, partners, employees, agents and Respondent's Consultants in the performance and furnishing of Respondent's services under this Agreement.

MWW shall indemnify Respondent from Claims caused by MWW's negligence

To the fullest extent permitted by law, MWW shall indemnify and hold harmless Respondent, Respondent's officers, directors, partners, employees and agents from and against any and all claims, costs, losses and damages (including but not limited to all fees and charges of engineers, architects, attorneys and other professionals and all court or arbitration or other dispute resolution costs) caused solely by the negligent acts or omissions of The City of Manchester, MWW or MWW's officers, directors, partners, employees, agents and MWW's Consultants with respect to this Agreement or the Project.

Respondent agrees to maintain in full force and effect:

A. Comprehensive General Liability insurance written on occurrence form, including completed operations coverage, personal injury liability coverage, broad form property damage liability coverage and contractual liability coverage insuring the agreements contained herein. The minimum limits of liability carried on such insurance shall be \$1,000,000 each occurrence and, where applicable, in the aggregate combined single limit for bodily injury and property damage liability; \$1,000,000 annual aggregate personal injury liability.

B. Automobile liability insurance for owned, non-owned and hired vehicles. The minimum limit of liability carried on such insurance shall be \$1,000,000 each accident, combined single limit for bodily injury and property damage.

C. Worker's Compensation insurance whether or not required by the New Hampshire Revised Statutes as amended, with statutory coverage and including employer's liability insurance with limits of liability of at least \$100,000 for each accidental injury and, with respect to bodily injury by disease, \$100,000 each employee and \$500,000 per policy year.

D. Professional Liability insurance covering acts of, errors or omissions committed in connection with or arising directly or indirectly out of the services being provided to MWW. The minimum limits of liability carried on such insurance shall be \$1,000,000 each claim and \$1,000,000 per policy year.

E. Any and all deductibles on the above described insurance policies shall be assumed by and be for the account of, and at the sole risk of Respondent.

F. Insurance companies utilized must be admitted to do business in New Hampshire or be on the Insurance Commissioner's list of approved non-admitted companies and shall have a rating (A) or better in the current edition of Best's Key Rating Guide.

G. Respondent agrees to furnish certificate(s) of the above mentioned insurance to MWW within fourteen (14) days from the date of this agreement and, with respect to the renewals of the current insurance policies, at least thirty (30) days in advance of each renewal date. Such certificates shall, with respect to comprehensive general liability and auto liability insurance, name the City of Manchester and the Manchester Water Works as additional insured (except worker's compensation) and, with respect to all policies shall state that in the event of cancellation or material change, written notice shall be given to Manchester Water Works, 281 Lincoln Street, Manchester, NH 03103, at least thirty (30) days in advance of such cancellation or change.

H. The purchase of the insurance required or the furnishing of the aforesaid certificate shall not be a satisfaction of Respondent's liability hereunder or in any way modify the Respondent's indemnification responsibilities to the City of Manchester and Manchester Water Works.

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this Proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word “person” shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity or group of individuals.

Signature of individual submitting proposal

Print or Type Name and Title of individual submitting proposal

Name of Business

Date

LABOR HARMONY AND OSHA TRAINING CERTIFICATION

The undersigned certifies under penalties of perjury:

- (1) that he can furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work;
- (2) that all employees to be employed at the worksite will have completed a course in construction safety, and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in the documentation of successful completion of said course with the first certified payroll report for each employee; and
- (3) that all employees to be employed in work subject to this proposal have completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

Signature of individual submitting proposal

Print or Type Name and Title of individual submitting proposal

Name of Business

Date

REQUEST FOR PROPOSAL

I. INTRODUCTION

Manchester Water Works is seeking information from qualified firms to provide materials testing and inspection services for our upcoming Administration and Vehicle Storage Building, a municipal construction project involving roadway construction, building construction and utility installation.

II. SCOPE OF SERVICES

The Selected testing Agent will be responsible for, but not limited to:

- Field testing: Concrete, asphalt, soils, aggregates, and other construction materials.
- Laboratory Testing: Compressive strength, gradation analysis, moisture density relationships etc.
- Inspection Services: Verification of materials compliance with project specifications.
- Reporting: Timely submission of test results, daily logs, and non-compliant reports.
- Coordination: Work closely with project manager, contractor and design team.

III. PROJECT SCHEDULE

- Anticipated Start Date: August 2026
- Estimated Duration: 18 Months
- Testing services will be required on an as-needed basis throughout the construction period.

IV. PROPOSAL REQUIREMENTS

Proposal must include:

- (1) Company profile – History, size and relevant experience.
- (2) Qualifications – Resumes of key personnel and certifications
- (3) Relevant Project Experience – At least three similar municipal projects in the past five years.
- (4) Approach & Methodology – How testing will be scheduled, performed and reported.
- (5) References – Contact information for past municipal clients.

V. EVALUATION CRITERIA

Proposals will be evaluated based on:

- Experience and qualifications (30%)
- Understanding of the project requirements (20%)
- References and past performance (25%)
- Price (25%)

PRICE PROPOSAL FORM

This proposal is for "Testing Agent" for the Manchester Water Works Administration and Vehicle Storage Facility Project in accordance with the specifications hereto attached.

The undersigned, as prospective contractor, certifies to Manchester Water Works, that he/she is able to furnish professional assistance and that he/she can work in harmony with all other elements of labor employed or to be employed in the work.

The undersigned, as prospective contractor, declares to Manchester Water Works, that his proposal is made without collusion with any other person, firm or corporation; that he/she has carefully and thoroughly examined the proposal requirements and all Contract Documents and that he/she understands and is familiar with all requirements of the work; and that he/she proposes and agrees, if his/her proposal is accepted to contract with Manchester Water Works for Quality Control Construction Inspection and Materials testing Services for the new Administration and Vehicle Storage Building Project, to perform said agreement and provide said services all in accordance with the requirements of the Contract Documents, and that he/she will take in full payment therefore the following unit prices and allowances, to wit:

Statement of Special Instructions

Refer to the enclosed Statement of Special Instructions prepared by the Engineering Team for the Base Building & Truck Barn Project. Testing Agencies shall note that the intent in the Statement of Special Instructions is not to have the Testing Agency formally review structural/structurally related submittals form the Contract. Approved Shop Drawings, welder certifications, fabricator certifications, materials certifications, etc. should be kept on file at the site for reference. Th Testing Agency needs only to review such items to the extent necessary for them to understand project requirements and to conduct their field testing and inspections accordingly.

NOTE: The unit prices must include all expenses for travel, mileage and transportation of sample costs.

1. SOILS & EARTHWORK

Reference schedule of program of Structural Tests and Inspections for extent.

A. Field Geotechnical technician \$ _____/hour

Who will visually inspect the excavated sub-grade, estimate the bearing capacity and/or verify consistency with the test borings from the original geotechnical investigation and verify stability of the bearing strata. Once suitability is verified, must write a letter of acceptance accordingly.

Estimated visits 5 Total for item 1A \$ _____

- B. **Soil Compaction & Moisture Content Testing** \$ _____/hour
 The technician will observe and test all soil placed as compacted fill to determine the soil moisture content (ASTM D 3017) and perform compaction testing in accordance with ASTM D2922 (Nuclear Method) or ASTM D1556 (Sand Cone Method), observe and document the compaction procedures followed and daily report findings.
 Estimated visits 20 Total for item 1B \$ _____
- C. **Electronic Nuclear Moisture-Density Gauge** \$ _____/day
 Estimated 10 tests Total for item 1C \$ _____
- D. **Modified Proctor** (4 pt moisture-density relationship, ASTM D1557) \$ _____/each
 Estimated 10 tests Total for item 1D \$ _____
- E. **Washed Sieve Analysis** (ASTM D422) \$ _____/each
 Includes mechanical analysis and #200 wash
 Estimated 10 tests Total for item 1E \$ _____
- Total for Soils & Earthwork \$ _____**

2. **Concrete & Reinforcing**

Reference Schedule of Program of Structural Test and Inspections for extent.

- A. **Concrete Batch Plant Inspector** \$ _____/hour
 Who will review the plant's QC procedures, verify the moisture content and gradation of both the fine and course aggregates then confirm adjustments to the batch weights, accordingly, view the batching procedure, confirm batch ingredients & proportions and record yardage.
 Estimated 2 visits Total for item 2A \$ _____
- B. **Detailed Form & Reinforcing Steel Inspection** \$ _____/hour
 Estimated 10 visits Total for item 2B \$ _____
- C. **ACI Certified Concrete Field Technician** \$ _____/hour
 Who will sample the fresh concrete (ASTM C172), test the mix for slump (ASTM C143) and air content (ASTM C173), fabricate concrete cylinders (ASTM C31); record temperature (ASTM C1064), concrete mix duration, workability, site added water, appearance, placements procedures & location, total yardage placed, and daily report to all concerned.
 Estimate 10 visits Total for item 2C \$ _____
- D. **Concrete Test Cylinders** \$ _____/each
 Compressive Strength Test (ASTM C39) and/or curing and storage
 Estimated 1 test per 50 cubic yards
 (Estimated 50 cylinders) Total for item 2C \$ _____

- E. **Vapor Emissions & pH Testing of Concrete Floors** \$ _____/hour
 Using Anhydrous Calcium Chloride (per ASTM E 1907 & F 1869)
 (1 test per 5,000 SF) \$ _____/test kit
 Estimated 5 visits Total for item 2E \$ _____
- F. **Determination of Relative Humidity in Concrete Floors** \$ _____/hour
 Using in-situ probes (per ASTM F 2170)
 (1 test per 5,000 SF)
 Estimated 5 visits Total for item 2F \$ _____
- G. **Floor Flatness/Levelness Testing (FF & FL Testing)** \$ _____/slab
 (Basic FF & FL testing of open areas less than 7,500 sq.ft.) Floor flatness and floor levelness
 will be determined in accordance with the ASTM E1155 utilizing a FACE Dipstick Floor
 Profiler.
 Estimated 3 visits Total for item 2G \$ _____
- H. **Alkalinity and Adhesion Testing** \$ _____/hour
 Verify that substrate are dry and free of curing compound, sealers, and hardeners, Perform tests
 recommended by manufacturer for the following materials: Tiling, Resilient Flooring, Epoxy
 Flooring. Perform additional moisture tests recommended by manufacturer.
 (1 test per 5,000 SF)
 Estimated 2 visits Total for item 2H \$ _____
- Total for Concrete and Reinforcing \$ _____**

3. **Structural Steel, LT Gauge, Misc. Metal Components & NDE**

Reference Schedule of Program of Structural Tests and Inspection for extent

- A. **Visual Examination of Structural Steel Components** \$ _____/hour
 To include torque testing of all bolted or welded connections, witnessing of impact wrench
 calibrations by a Skidmore Wilhelm Torque Tension Gauge, inspection of steel joist and/or
 trusses, metal deck, sheer studs, light gauge metal framing, misc. metals (such as steel pan stairs
 & railings), curtain wall framing and metal wall panels and/or veneers.
 Estimated 6 visits Total for item 3A \$ _____
- B. **AWS Certified Welding Inspector** \$ _____/hour
 For field or Fab plant inspections
 Estimated 3 visits Total for item 3B \$ _____
- C. **Nondestructive Examination** \$ _____/hour
 Of any structural steel weldments by an ASNT Certified Level II Technician to include
 1. Ultrasonic Evaluation of full penetration welds
 2. Magnetic Particle or Dye Penetrant evaluation of fillet welds
 Estimated 2 visits Total for item 3C \$ _____

Total for Structural Steel, Light Gauge, Misc. Metal Components & NDES \$ _____

4. **Building Envelope**

Roofing, Air/Vapor Barrier, Siding, Waterproofing, Windows & Curtain Walls

A. **Visual Inspection of Building Envelope Components** \$ _____/hour
An experienced Technician who will check all materials and procedures for strict conformance to project specifications. The technician will inspect application of roofing, curtain wall, air/vapor barrier systems, flashings, caulking, waterproofing and/or joint sealants and will prepare a daily report recording weather conditions and all work performed that day along with any deficiencies noted.

Estimated 6 visits Total for item 4A \$ _____

B. **Window Water Infiltration Testing** \$ _____/hour
Field testing of window and curtain wall units per ASTM E1105. Testing shall include an initial test of fenestration in an exterior wall mock-up panel followed by testing of units installed in the exterior wall construction.

Estimated 3 visits Total for item 4B \$ _____

Total for Building Envelope \$ _____

5. **Masonry**

Reference Schedule of Program of Structural Tests and Inspections for extent.

A. **Field Masonry Inspection** \$ _____/hour
Who will monitor masonry work for compliance with contract documents.

Estimated 5 visits Total for item 5A \$ _____

B. **Laboratory Services**

1. **Test Concrete Masonry Unit (ASTM C-140)** \$ _____/set
Evaluation of units to ensure compliance with ASTM C-90 including:
measurement, absorption & compressive strength.

Estimated 2 tests Total for item 5B.1 \$ _____

2. **Grout Prisms (ASTM C-1019)** (or Cylinders) \$ _____/each

Estimated 2 tests Total for item 5B.2 \$ _____

3. **Strength Test CMU Prisms (ASTM C-1314)** (made by Mason) \$ _____/each

Estimated 2 tests Total for item 5B.3 \$ _____

4. **Mortar or Non-shrink Grout Cubes (ASTM C-109)** \$ _____/each

Estimated 2 tests Total for item 5B.4 \$ _____

Total for Masonry \$ _____

6. Painting and Coating

A. Sample Paint Materials \$ _____/each
Perform appropriate tests to verify the material samples comply with specified requirements.

Estimated 5 tests **Total for Paint and Coatings \$ _____**

7. Fireproofing

A. Field Inspection \$ _____/hour
Inspect and test sprayed fireproofing per ASTM E605 and ASTM E736, and inspect intumescent coating per AWCI 1212-13

Estimated 4 tests, 1 visit **Total Fireproofing \$ _____**

8. Seismic Anchoring

A. Field Inspection – Cladding and Walls \$ _____/hour
In Seismic Design Categories D, E, and F, periodic inspection of the erection and fastening of exterior cladding > 30 feet tall that wight > 5 PSF, and for interior non-load bearing walls > 30 feet tall that wight > 15 PSF, per IBC 1705.13.5.

Estimated 8 visits **Total for item 8B \$ _____**

B. Field Inspection – Mechanical and Electrical Components \$ _____/hour
Periodic inspection (during roughing and prior to concealment) of mechanical and electrical components as listed below per IBC 1705-13.6.

1. All roof mounted mechanical equipment
2. All mechanical equipment hung from structure
3. All ductwork
4. All Piping (sprinkler, HVAC, refrigerant, DHW, DCW, DHWR, waste, vent)
5. Pendant and ceiling mounted lighting fixtures
6. Emergency power ATS, panel and emergency circuits
7. Switchboard, main distribution panel, large panels and conduits 3” or greater
8. Conduits 2 ½” and smaller in size when installed on a Unistrut trapeze mounted and distance from deck to top of conduits is greater than 12” or the entire assembly weight is greater than 10 lbs per linear foot.

Estimated 16 visits **Total for item 8C \$ _____**

*** TOTAL OF ITEMS 1 THROUGH 8 \$ _____**

Note excluded items from above total:

(_____)

ACTUAL QUANTITIES, FREQUENCY, AND TYPE OF LAB TESTING AND FIELD SERVICES WILL BE COORDINATED AND AS REQUIRED TO SUPPORT THE CONSTRUCTION OF THE PROJECT.

9. Reimbursable Expenses: (only with prior written approval)

A. Registered Professional Engineer (if needed) \$ _____/hour

B. Normal turnaround time for laboratory results is (_____) working days from date received. If expedited testing and results are requested the following rates will apply:

24 hour turnaround time (or less) = Regular rate x (_____)

24 to 48 hour turnaround time = Regular rate x (_____)

C. Overtime rate (over 8 hours on site) Rate x _____

- 2nd shift rates Rate x _____

- 3rd shift rates Rate x _____

- Saturday rate Rate x _____

- Sunday/Holiday rate Rate x _____

Rates allow a 4 hour minimum per site visit. Inspectors will be required to sign in and out at the clerk's office to verify time spent on site.

No additional time will be permitted to be billed for daily report preparation or for review of reports by Supervisor or P.E.

Rates include all phone calls, report distribution, all expenses for travel, mileage and transportation of sample costs and all other miscellaneous charges.

Respondent: _____

(Name of Business)

Signature of individual submitting proposal

Print or Type Name and Title of individual submitting proposal

Address

Date

APPENDIX I

SECTION 01 45 33
CODE-REQUIRED SPECIAL INSPECTIONS AND PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Code-required special inspections.
- B. Submittals.

1.02 RELATED REQUIREMENTS

- A. Section 01 40 00 - Quality Requirements: General requirements for testing and inspections and project testing and inspections other than Special Inspections.
- B. Statement of Special Inspections: Two separate Statement of Special Inspections have been provided.

1.03 DEFINITIONS

- A. Code or Building Code: 2021 Edition of the International Building Code, Chapter 17 - Structural Tests and Inspections.
- B. Authority Having Jurisdiction (AHJ): Agency or individuals officially empowered to enforce the building, fire and life safety code requirements of the permitting jurisdiction in which the Project is located.
- C. Special Inspections:
 - 1. Special inspections are inspections and testing of materials, installation, fabrication, erection or placement of components and connections mandated by the building code and AHJ that also require special expertise to ensure compliance with the approved contract documents and the referenced standards.
 - 2. Special inspections are separate from and independent of tests and inspections conducted by Owner or Contractor for the purposes of quality assurance and contract administration.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Special Inspectors Qualifications: Prior to the start of work, proposed Special Inspectors shall submit their qualifications to the AHJ for review and acceptance.
- C. Testing & Inspections Agency Qualifications: Prior to the start of work, the Testing & Inspections Agency shall submit the following to the AHJ, Architect, Structural Engineer of Record, Owner and Contractor:
 - 1. Agency name, address, and telephone number, and names of full time registered Engineer and responsible officer.
 - 2. Copy of report of laboratory facilities inspection made by NIST Construction Materials Reference Laboratory during most recent inspection, with memorandum of remedies of any deficiencies reported by the inspection.
 - 3. Documentation that Testing Agency is accredited by IAS according to IAS AC89.
- D. Special Inspection Reports: After each special inspection, all Special Inspectors and Testing Agencies shall promptly submit copies of their report to Architect, Structural Engineer of Record, Owner, Contractor, and AHJ at intervals identified on the Statement of Special Inspections.
 - 1. Include:
 - a. Date issued.
 - b. Project title and number.
 - c. Name of Special Inspector.
 - d. Date and time of special inspection.

- e. ICC, AWS and ACI certification #s.
 - f. Identification of product and Specifications Section.
 - g. Location in the Project.
 - h. Type of test or special inspection.
 - i. Date of test or special inspection.
 - j. Results of test or special inspection. Failing inspections and tests, as well as retests shall be clearly identified.
 - k. Compliance with Contract Documents.
2. Final Special Inspection Report: Each Special Inspector shall submit a Final Report upon the conclusion of each special inspection regime. Document special inspections and correction of failed testing and inspections, corrective action and successful re-tests in a final report to be submitted to the AHJ, Architect, Structural Engineer of Record, Contractor and Owner.
 3. As required by the Building Code, the Architect as Registered Design Professional in Responsible Charge shall assemble all Final Reports submitted by the Special Inspectors, determine that all required test and inspection reports have been submitted, and submit a Project Final Report Summary to the AHJ, Owner and Contractor.
- E. Fabricator Special Inspection Reports: After each special inspection of fabricated items at the Fabricator's facility, Special Inspector shall promptly submit copies of report to Architect, Structural Engineer of Record, Contractor, Owner and AHJ.
1. Include:
 - a. Date issued.
 - b. Project title and number.
 - c. Name of Special Inspector.
 - d. Date and time of special inspection.
 - e. Identification of fabricated item and specification section.
 - f. Location in the Project.
 - g. Results of special inspection.
 - h. Verification of fabrication and quality control procedures.
 - i. Compliance with Contract Documents.
 - j. Compliance with referenced standard(s).
- F. Test Reports: After each test or inspection, promptly submit copies of report to Architect, Structural Engineer of Record, Contractor, Owner and AHJ.
1. Include:
 - a. Date issued.
 - b. Project title and number.
 - c. Name of inspector.
 - d. Date and time of sampling or inspection.
 - e. Identification of product and specifications section.
 - f. Location in the Project.
 - g. Type of test or inspection.
 - h. Date of test or inspection.
 - i. Results of test or inspection.
 - j. Compliance with Contract Documents.

1.05 TESTING AND INSPECTION AGENCIES

- A. The Owner shall employ services of an independent testing and inspection agency and/or agencies to perform inspections and tests associated with Special Inspections required by the building code.
 1. The Owner will employ services of an independent testing agency to perform certain other testing and inspections that are not Special Inspections as identified in Section 01 40 00.

2. The Contractor shall employ services of an independent testing agency(s) to perform certain other testing and inspections that are not Special Inspections as identified in Section 01 40 00.
- B. Employment of agency(s) in no way relieves the Contractor of the obligation to perform the Work in accordance with requirements of the Contract Documents.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 SCHEDULE OF SPECIAL INSPECTIONS, GENERAL

- A. Frequency of Special Inspections: Special Inspections are indicated as continuous, periodic, or aperiodic.
1. Continuous Special Inspection: Approved individual of the Special Inspection agency shall be present in the area where the work is being performed and observe the work at all times the work is in progress.
 2. Periodic Special Inspection: Approved individual of the Special Inspection agency shall be present in the area where work is being performed and observe the work part-time or intermittently and at the completion of the work.
 3. Aperiodic Special Inspection: Approved individual of the Special Inspection agency shall be present in the area where work is being performed and observe the work irregularly scheduled as required or as needed.

3.02 TESTING AGENCY AND INSPECTORS DUTIES AND RESPONSIBILITIES

- A. See Section 01 40 00 – Quality Requirements, for general duties and responsibilities of the testing agency and inspectors.

3.03 CONTRACTOR DUTIES AND RESPONSIBILITIES

- A. See Section 01 40 00 – Quality Requirements, for the duties and responsibilities of the Contractor.

3.04 STATEMENT OF SPECIAL INSPECTIONS

- A. See the appended Statement of Special Inspections following this Section, for the scope of building code and AHJ required testing and inspections for this Project.

END OF SECTION

APPENDIX II

Statement of Special Inspections
BASE BUILDING & TRUCK BARN FOUNDATIONS

6 April 2026

Manchester Water Works
City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Project	Manchester Water Works	
Location	1581 Lake Shire Rd #151 Manchester, NH 03109	
Owner	Manchester Water Works 281 Lincoln Street Manchester, New Hampshire 03103 Contact: Philip Croasdale	Tel: 603-624-6494
Architect of Record (AOR) & Registered Design Professional in Responsible Charge (RDP)	Richard R. Pizzi, CEO richard.pizzi@lbpa.com Lavallee Brensinger Architects 155 Dow St. Manchester, NH	Tel: 603-622-5450
Structural Engineer of Record (SER1)	Kenneth G Marshall, P.E. kmarshall@fbra.com Foley, Buhl, Roberts & Associates Inc 500 Commercial Street, Manchester, NH	Tel: 603-237-1413
Testing Agency (TA)	To be determined	
Geotechnical Engineer (GE)	Chad B. Michaud, P.E. chad.michaud@swcole.com S.W. Cole Engineering, Inc. 13 Delta Drive, Londonderry, NH	Tel: 603-716-2111
Specialty Engineer(s) (SE)	See Performance Specifications on Page 2	

This Statement of Special Inspections is submitted as a condition for issuance of a building permit in accordance with Section 1704 of the New Hampshire State Building Code (IBC 2021).

The firms, agencies, or individuals noted above (hereafter referred to collectively as agents) will perform the structural tests and inspections as specified herein.

A final letter shall be issued by the Testing Agency following the completion of all work in this Document stating that all items have been inspected and all deficiencies have been corrected.

The complete set of Contract Documents (Drawings and Specifications) that accompany the application for building permit is to be considered attached to this program as reference material.

This program does not relieve the Contractor of their responsibility to conduct the work in accordance with the requirements of the Construction Documents, the approved Shop Drawings and the New Hampshire State Building Code.

Statement of Special Inspections
BASE BUILDING & TRUCK BARN FOUNDATIONS

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Manchester Water Works
City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Construction Categories: The following construction categories are included in the Statement of Special Inspections for this project. Specific tests and inspections required for each designated category are listed on the page noted opposite the category.

<u>Construction Category</u>	<u>Page</u>	<u>Construction Category</u>	<u>Page</u>
Structural Steel Framing	<u>3</u>	Earthwork	<u>11</u>
Shear Connectors	<u>3</u>	In-situ Bearing Strata	<u>11</u>
Steel Joist Framing	<u>4</u>	Controlled Fill	<u>11</u>
Steel Decking	<u>4</u>		
Cold Formed Metal Framing	<u>5</u>	Cast-In-Place Concrete	<u>6-7</u>
Fireproofing	<u>12</u>	Firestopping	<u>12</u>
Steel Stairs & Handrails/Guardrails	<u>13</u>	Masonry	<u>9</u>
Storefront and Curtainwall	<u>15</u>		

Performance Specifications: The following construction components are designated in the Contract Documents on the basis of a performance specification to be designed by the Contractor's or Subcontractor's registered professional engineer, i.e. Specialty Engineer (SE).

<u>Construction Component</u>	<u>Page</u>
Cold Formed Metal Framing	<u>5</u>
Steel Stairs & Handrails/Guardrails	<u>13</u>
Storefront and Curtainwall	<u>15</u>

Reports: Test and inspection reports prepared by the AOR, SER, TA, GE, and SE will be collected and maintained by the RDP and distributed, according to the procedures established by the Building Official. Prior to the issuance of a certificate of occupancy the RDP will submit a final letter to the Owner and Building Official in accordance with IBC 1704.2.4.

Prepared by the SER1:

Registered Design Professional in Responsible Charge:

Name: Kenneth G. Marshall, P.E
New Hampshire P.E. Registration # 9063

Name: Richard R. Pizzi, AIA
New Hampshire Registered Architect # 2661

Signature: _____

Signature: _____

Firm: Foley Buhl Roberts & Associates, Inc.

Firm: Lavallee Brensinger Architects

Date: _____

Date: _____

Statement of Special Inspections
BASE BUILDING & TRUCK BARN FOUNDATIONS

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Manchester Water Works
 City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Steel Construction (IBC 2021 Section 1705.2) (Specification Sections 051200, 051226, 052100, 053100, and 13 34 19)					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Steel Construction QC Review	<ul style="list-style-type: none"> Review Contractor's field quality control procedures. Review frequency and scope of field testing and inspections. 	Spec. Section 051200	SER	-	Each submittal
2. Fabricator and Erector Certifications	<ul style="list-style-type: none"> Review AISC Certified Fabricator and AISC Certified Erector Submittals. 	AISC (Fabricator) Certification Standard for Steel Building Structures (BU) and AISC Certified Steel Erector (CSE)	SER & TA	-	Each submittal
4. Materials	<ul style="list-style-type: none"> Review material certifications for conformance to Specifications. 	AISC 360 A3.1 AISC 360 A3.3 & 3.4 Spec. Section 051200	SER & TA	-	Each submittal
5. Anchor Rod Survey	<ul style="list-style-type: none"> Review Contractor's as-built survey. 	Spec. Section 051200	SER	-	Each submittal
6. Anchor Rods	<ul style="list-style-type: none"> Verify that all anchor rods have been properly tightened and have adequate fit-up. 	ASTM F1554 AISC 360 M4 Spec. Section 051200	SER & TA	Periodic	All anchor rods
7. Bolting	<ul style="list-style-type: none"> Verify bolt size and grade. Test and inspect bolted connections. 	AISC 360 A3.3 & M2.5 Spec. Section 051200 AISC Specification for Structural Joints Using A325 or A490 Bolts	TA	Periodic	All bolts
			SER	-	During aperiodic site visits
8. Welding	<ul style="list-style-type: none"> Check welder qualifications. Check weld identification markings. Test and inspect welds. 	AWS D1.1 Section 6 Spec. Section 051200	TA	<u>Continuous:</u> •Complete and partial penetration groove welds, •Multiple pass fillet welds, •Plug and slot welds •Single pass fillet welds >5/16" <u>Periodic:</u> •Fillet welds ≤ 5/16"	<u>At moment connections:</u> Visually inspect and test all welds by ultrasonic or radiographic methods. If for an individual welder, the rejection rate is demonstrated to be five (5) percent or less, the non-destructive testing rate may be reduced to twenty-five (25) percent for the individual welder. The evaluation of the welding shall be based on a sampling of at least forty (40) completed welds. <u>At all other welds:</u> Visually inspect all welds.
			SER	-	During aperiodic site visits

Statement of Special Inspections
BASE BUILDING & TRUCK BARN FOUNDATIONS

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Manchester Water Works
 City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

9. Shear Connectors	<ul style="list-style-type: none"> • Check against Construction Documents and latest approved shop drawings. • Inspect shear connectors for size, quantity, and location. • Test shear connectors for proper weld attachment. 	AWS D1.1 Section 7 Construction Documents Spec. Section 051226	TA	Periodic	Test a minimum of 10% of shear connectors; if one or more fail, then test all shear connectors.
			SER	-	During aperiodic site visits
10. Structural Framing, Details, and Assemblies	<ul style="list-style-type: none"> • Check against Construction Documents and latest approved shop drawings. • Inspect for size, grade of steel, camber, installation, and connection details. • Verify steel frame joint details including: <ul style="list-style-type: none"> • Details such as bracing and stiffeners • Moment connections • Joint configurations and locations • Preparation of faying surfaces 	Construction Documents Spec. Section 051200	TA	Periodic	All framing, details, and assemblies.
			SER	-	During aperiodic site visits
11. Expansion & Adhesive Anchors	<ul style="list-style-type: none"> • Review installation procedures for both mechanical anchors and adhesive anchors. • Verify that materials are suitable for job conditions. 	ACI 318 Appendix D Anchor manufacturer's instructions	TA ³	Periodic	All anchors
			SER	-	Each submittal
12. Steel Decking	<ul style="list-style-type: none"> • Verify gage, depth, and type. • Inspect placement, laps, welds, side lap attachments, and mechanical fasteners • Check welder qualifications. 	SDI Steel Deck Design Manual AWS D1.3 Section 7 Construction Documents Spec. Section 053100	TA	Periodic	All decking and connections
			SER	-	During aperiodic site visits
13. Field Correction of Fabricated Items	<ul style="list-style-type: none"> • Review documentation of approved repairs and verify completion of repairs. 	Construction Documents Spec. Section 051200	TA	As required, per above	Each repair
			SER	-	During aperiodic site visits

¹Continuous Inspection: Full-time observation of the indicated work by approved individual of the noted Agency, as the work is being performed.

²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

³The initial installation of anchors into each type of material shall be witnessed by both the TA and the anchor manufacturer's technical representative to establish correct procedures for the remaining anchors that will be visually inspected by the TA. The initial installation into each type of material shall be load tested by the anchor manufacturer. Anchor inspections following the initial installations are to be visual inspections unless there are adverse conditions that warrant additional load tests.

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Manchester Water Works
 City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Cold Formed Metal Framing Construction ³ (IBC 2021 Section 1705.12.5) (Specification Section 054000)					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Cold Formed Metal Exterior Wall Stud Backup Framing Design and Cold Formed Metal Roof Truss Design	<ul style="list-style-type: none"> Review supplier's structural design of cold formed metal exterior wall stud backup framing and cold formed metal roof trusses. 	Construction Documents Spec. Section 054000	SER	-	Each submittal
2. Materials Certification	<ul style="list-style-type: none"> Review certification of materials. 	AISI Cold Formed Steel Design Manual Construction Documents Spec. Section 054000	SER & TA	-	Each submittal
3. Installation of Cold Formed Metal Exterior Wall Stud Backup Framing	<ul style="list-style-type: none"> Inspect type, size, gauge, spacing and placement of cold formed metal exterior wall studs, connections, anchorage, bridging, accessories, etc. for conformance with the approved Shop Drawings and Contract Documents. Inspect installation of cold formed metal roof trusses, connections, anchorage, bridging, bracing, accessories, etc. 	AISI Cold Formed Steel Design Manual Construction Documents Spec. Section 054000	TA	Periodic	All locations
			SE	-	Once during performance of the work and once after completion of the work
			SER	-	During aperiodic site visits

¹Continuous Inspection: Full-time observation of the indicated work by approved individual of the noted Agency, as the work is being performed.

²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

³Testing and inspection of light gauge steel exterior wall framing is not required by IBC 2021 but is recommended by the Design Team.

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Manchester Water Works
 City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Concrete Construction (IBC 2021 Section 1705.3) (Specification Section 033000)					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Cast in Place Concrete Construction QC Review	<ul style="list-style-type: none"> Review Contractor's field quality control procedures. Review frequency and scope of field testing and inspections. 	Construction Documents Spec. Section 033000	SER	-	Each submittal
2. Mix Design	<ul style="list-style-type: none"> Review mix designs prior to placement. 	Construction Documents Spec. Section 033000	SER	-	Each submittal
	<ul style="list-style-type: none"> Verify use of required mix design. 	ACI 318, 1.3.2.A ACI 318, Chapter 4 ACI 318, 5.2-5.4	TA	-	Each concrete placement
3. Materials	<ul style="list-style-type: none"> Review material certifications for conformance to Specifications. 	Construction Documents Spec. Section 033000	SER & TA	-	Each submittal
4. Reinforcement Installation	<ul style="list-style-type: none"> Use latest set of approved reinforcing bar shop drawings. Inspect reinforcing for grade, size, quantity, spacing, lap lengths, bends, hooks, condition, and placement. Verify adequate cover per specifications. Confirm dowel installation for masonry and concrete, including embedment lengths. 	ACI 318, 1.3.2.C ACI 318, 7.5	TA	Periodic	Each concrete placement
			SER	-	During aperiodic site visits
5. Anchor Rods	<ul style="list-style-type: none"> Inspect anchor rods prior to and during placement of concrete. 	ACI 318 1.3.2.C	TA	Continuous	All anchor rods
			SER	-	During periodic site visits
6. Formwork	<ul style="list-style-type: none"> Inspect forms for cleanliness and for proper sizes/locations of concrete members. 	ACI 318 6.1.1	TA	Periodic	Each concrete placement
			SER	-	During aperiodic site visits
7. Concrete Placement and Sampling of Fresh Concrete	<ul style="list-style-type: none"> Review hot-weather and cold-weather placement procedures submitted by the Contractor. 	ACI 305 ACI 306	SER	-	Each submittal
	<ul style="list-style-type: none"> Verify conformance to Specifications including hot-weather and cold-weather placement procedures. 	ACI 305 ACI 306	TA	-	Each concrete placement
	<ul style="list-style-type: none"> Observe concrete placement operations. Check that total water does not exceed amount in design mix. 	ACI 318, 1.3.2.D ACI 318, 5.9-5.10	TA	Continuous	Each concrete delivery
	<ul style="list-style-type: none"> Concrete Strength 	ASTM C31, C39 & C172	TA	-	For each strength of concrete, each day, take four (4) 6"x12" cylinders or six (6) 4"x8" cylinders for the first placement up to 50 CY. Then take the same number of additional cylinders for every 50 CY thereafter. Take sample from point of discharge and at time
	<ul style="list-style-type: none"> Concrete Slump 	ASTM C143			
<ul style="list-style-type: none"> Concrete Air Content 	ASTM C231				

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Manchester Water Works
 City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

	• Concrete Temperature	ASTM C1064			fresh concrete is placed. Concrete for each set of cylinders shall be from (1) representative sample of the entire batch.
9. Evaluation of Concrete Strength	• Test and evaluate in accordance with the Specifications.	Construction Documents Spec. Section 033000 ACI 214 ASTM C42	TA	-	If 6" test cylinders - (1) 7-day & (2) 28-day results. Hold (1) for 56-day results, as needed. If 4" test cylinders - (1) 7-day & (3) 28-day results. Hold (2) for 56-day results, as needed.
			SER	-	Each submittal
10. Curing and Protection	• Observe procedures for conformance to the Specifications.	Construction Documents Spec. Section 033000	TA	Periodic	Each concrete placement
			SER	-	During aperiodic site visits
11. Welding Reinforcing Steel	• Verify that rebar is ASTM A706 and observe preheating as necessary.	ACI 318, 3.5.2 ASTM A706 AWS D1.4, Section 7	TA	Continuous	Visual inspection of all welds
12. Mechanical Reinforcing Splices	• Confirm that the correct, approved couplers are being used. • Verify proper embedment, joint fit-up, and tightness of mechanical parts.	ACI 318, Chapter 12 & Manufacturer's installation instructions	TA	Periodic	Visual inspection of all splices, if applicable

¹Continuous Inspection: Full-time observation of the indicated work by approved individual of the noted Agency, as the work is being performed.

²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

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Manchester Water Works
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100% Pricing Submission - Not For Construction

Masonry Construction (IBC 2021 Section 1705.4) (Specification Section 042000)					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Tests Submitted by Contractor for Masonry Units/ Assemblages	<ul style="list-style-type: none"> Review mortar, grout, and prism tests submitted by Contractor. 	Construction Documents Spec. Section 042000 ACI 530.1 Art. 1.5	SER	-	Each class of masonry unit and type of masonry assemblage.
2. Materials Certification	<ul style="list-style-type: none"> Review masonry units, masonry veneers, precast masonry units, and mortar and grout materials. 	Construction Documents Spec. Section 042000 ACI 530.1 Art. 1.4B	SER	-	Each submittal
	<ul style="list-style-type: none"> For record and field verification 		TA	-	In conjunction with related field visits
3. Testing & Evaluation of Mortar & Grout Strength	<ul style="list-style-type: none"> Sample and test mortar and grout used in field for masonry construction. 	Construction Documents Spec. Section 042000 ACI 530.1 Art. 1.4B	TA	-	For each type of mortar and grout, per every 5,000 square feet of wall surface area: test mortar per ASTM C780 test grout per ASTM C1019
	<ul style="list-style-type: none"> Review test results for mortar and grout. 		SER	-	Each report
4. Proportioning, Mixing, and Consistency of Mortar & Grout	<ul style="list-style-type: none"> Observe field procedures for proportioning and mixing of the mortar and grout to be used in the masonry construction. 	Construction Documents Spec. Section 042000 ACI 530.1 Art. 2.6	TA	Continuous	Once, for each type of grout, at the beginning of masonry construction
			SER	-	During aperiodic site visits
5. Masonry Installation	<ul style="list-style-type: none"> Inspect and report on installation of masonry units for general configuration and placement. 	Construction Documents Spec. Section 042000 ACI 530.1 Art. 3.3	TA	Periodic	All locations
			SER	-	During aperiodic site visits
6. Anchorage	<ul style="list-style-type: none"> Inspect type, spacing, and placement of masonry anchors and ties. 	ACI 530 Sections 1.2.2.e & 1.16.1	TA	Periodic	All locations
			SER	-	During aperiodic site visits
7. Reinforcement Installation	<ul style="list-style-type: none"> Inspect reinforcement for grade, size, quantity, spacing, condition, cover, bar positioners, and placement. 	Construction Documents Spec. Section 042000 ACI 530 Section 1.15 ACI 530.1 Art. 2.4 & 3.4	TA	Periodic	All locations
			SER	-	During aperiodic site visits
8. Grouting Operations	<ul style="list-style-type: none"> Inspect cells of masonry units for cleanliness prior to grouting. Observe partial/full grouting procedures. 	Construction Documents Spec. Section 042000 ACI 530.1 Art. 2.6B	TA	Continuous	All locations
			SER	-	During aperiodic site visits
9. Weather Protection	<ul style="list-style-type: none"> Observe protection of masonry against cold and hot weather. 	IBC Sections ACI 530.1 Articles 1.8C & 1.8D	SER	-	Each submittal
			TA	Periodic	Each masonry placement
10. Anchorage of Exterior Wall Masonry Veneer	<ul style="list-style-type: none"> Inspect type, size, spacing, and placement of approved anchorage to adjacent back-up framing. 	Construction Documents Spec. Section 042000 ACI 530 Section 1.2.2.e	TA	Periodic	All locations
			SER	-	Each submittal

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²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

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 City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Soils (IBC 2021 Section 1705.6) (Specification Section 320000)					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Excavation	<ul style="list-style-type: none"> Review existing sub-soils and groundwater conditions during building excavation. 	Construction Documents Spec. Section 320000	GE	Periodic	At each location
2. Bearing Strata	<ul style="list-style-type: none"> Review the in-situ bearing strata and compacted structural fill bearing strata for footings and slabs cast on grade. 	Construction Documents Spec. Section 320000	GE	Periodic	At each location
3. Structural Fill	<ul style="list-style-type: none"> Observe and test compacted structural fill. 	Construction Documents Spec. Section 320000	TA	Continuous	At each location
4. Overexcavation	<ul style="list-style-type: none"> Monitor the removal of existing unsuitable fill material from the proposed building footprint. 	Construction Documents Spec. Section 310000	GE	Continuous	At each location
5. Frost Protection of Subgrade	<ul style="list-style-type: none"> Review subgrade for depth of frost prior to installation of foundations and slabs on grade. Review subgrade for depth of frost during construction for protection of in-place foundations and slabs on grade. 	Construction Documents Spec. Section 320000	GE & TA	Periodic	At each location
6. Installation of Perimeter and Underslab Drainage Systems	<ul style="list-style-type: none"> Monitor installation of the perimeter and underslab drainage system 	Construction Documents Spec. Section 310000	GE	Periodic	At each location
7. Field Conditions	<ul style="list-style-type: none"> Review existing conditions, procedures and in-situ bearing strata for underpinning. 	Construction Documents Spec. Section 314000	GE	Continuous	At each location
8. Concrete Placement	<ul style="list-style-type: none"> Observe concrete placement operations for underpinning. 	Construction Documents Spec. Sections 033000 & 314000	TA	Periodic	See Concrete Construction Requirements

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²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

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Manchester Water Works
City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Fireproofing (IBC 2021 Sections 1705.14 & 1705.15 (Specification Sections 078100 and 078400))					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Materials Certification	<ul style="list-style-type: none"> Review materials certifications for conformance to Specifications 	IBC 1705.14, 1704.13 Spec. Section 078100 and 078123	AOR	-	Each submittal
	<ul style="list-style-type: none"> For record and use in field verification 	ASTM E605 ASTM E736	TA	Periodic	In conjunction with related field visits
2. Sprayed Fire-resistant Materials	<ul style="list-style-type: none"> Inspect and test sprayed fire-resistant materials applied to floor/roof assemblies and structural members in accordance with ASTM E605 and ASTM E736, based on the fire-resistance design as designated in the Construction Documents. Inspections shall include: <ul style="list-style-type: none"> Condition of substrates Thickness of application Density Bond strength adhesion/cohesion Condition of finished application 	IBC 1705.14 Spec. Section 078100 ASTM E605 ASTM E736	TA	Periodic	<p><u>Floor & Roof Assemblies:</u></p> <ul style="list-style-type: none"> Thickness: 4 measurements per 1,000 square feet of sprayed area of each assembly at each story Density: 1 measurement per 2,500 square feet of sprayed area of each assembly at each story Bond Strength: 1 measurement per 2,500 square feet of sprayed area of each assembly at each story <p><u>Structural Members:</u></p> <ul style="list-style-type: none"> Thickness: Performed on 25 percent of structural members on each floor. Testing areas and number of sampling points per IBC 1705.14.4 for each type of structural member, Density: 1 measurement per 2,500 square feet of sprayed area of each type of member at each story Bond Strength: 1 measurement per 2,500 square feet of sprayed area of each type of member at each story
3. Mastic and Intumescent Fire-resistant Coatings	<ul style="list-style-type: none"> Inspect coatings applied to structural elements in accordance with AWC1 12-B, based on the fire-resistance design as designated in the Construction Documents. 	IBC 1705.15 Spec. Section 078100 AWC1 12-B	TA	Periodic	At all locations

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²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

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Firestopping (IBC 2021 Section 1705.17) (Specification Section 07 84 00)					
1. Material Certification. Test data for each firestop assembly	Review for conformance with the Contract Documents	Construction Document Spec. Section 07 84 00	TA AOR	-	Each submittal
2. Installer certification	Review of installer qualifications	Construction Document Spec. Section 07 84 00	AOR		Once
3. Installation of firestopping	<ul style="list-style-type: none"> • Verify materials for conformance with listed systems, prior to installation. • For each type of system installed, witness 10% of the installations. • Verify that all firestops have been installed. • Verify proper in-place labeling. • Identify non-compliant installations and re-inspect following repair/replacement. 	IBC 1705.17 Spec. Section 078400 ASTM E 2174 and E2393	TA	Periodic	At all locations

¹Continuous Inspection: Full-time observation of the indicated work by approved individual of the noted Agency, as the work is being performed.

²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

Statement of Special Inspections
BASE BUILDING & TRUCK BARN FOUNDATIONS

6 April 2026

Manchester Water Works
 City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Stairs and Railings ³ (IBC 2021 Section 1705.10) (Specification Section 055000)					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Steel Stairs & Handrail/Guardrail Assemblies	<ul style="list-style-type: none"> Review supplier's structural design of stair pans, stringers, landings, and railings. 	Construction Documents Spec. Section 055000	SER	-	Each submittal
2. Materials Certification	<ul style="list-style-type: none"> Review certification of materials. 	Construction Documents Spec. Section 055000	SER & TA	-	Each submittal
3. Installation of Steel Stairs & Handrail/Guardrail Assemblies	<ul style="list-style-type: none"> Inspect installation of steel stairs. Check component type, size, spacing, and placement for conformance with the approved stair system design. Check member-to-member connections and connections to adjacent steel/concrete support elements. 	AWS D1.1 AISC 360 NAAMM Metal Stair Manual and Pipe Railing Manual Construction Documents Spec. Section 055000	TA (or COW)	Periodic	All locations
			SE	-	Once during performance of the work and once after completion of the work
			SER	-	During aperiodic site visits

¹Continuous Inspection: Full-time observation of the indicated work by approved individual of the noted Agency, as the work is being performed.

²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

³Testing and inspection of this work is not required by IBC 2021 but is recommended by the Design Team.

Statement of Special Inspections
BASE BUILDING & TRUCK BARN FOUNDATIONS

6 April 2026

Manchester Water Works
 City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Glazed Aluminum Curtainwalls ³ (IBC 2021 Section 1705.12.5) (Specification Section 084410)					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Glazed Aluminum Curtainwalls	<ul style="list-style-type: none"> Review supplier's structural design of system. 	Construction Documents Spec. Section 084410	SER	-	Each submittal
2. Material Certification	<ul style="list-style-type: none"> Review materials used. 	Construction Documents Spec. Section 084410	SER & TA	-	Each submittal
3. Installation of Glazed Aluminum Curtainwalls	<ul style="list-style-type: none"> Inspect type, size, gauge, spacing, and placement of members for conformance to the approved Curtain Wall Shop Drawings and Contract Documents. Inspect member-to-member connections and connections/anchorage to adjacent steel/concrete/wood support elements. 	Construction Documents Spec. Section 084410 Manufacturer's installation instructions	TA	Periodic	All locations
			SE	-	Once during performance of the work and once after completion of the work.
			SER	-	During aperiodic site visits

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²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

³Testing and inspection of this work is not required by IBC 2021 but is recommended by the Design Team.

Statement of Special Inspections
BASE BUILDING & TRUCK BARN FOUNDATIONS

6 April 2026

Manchester Water Works
 City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Architectural, Mechanical and Electrical Components (IBC 2021 Section 1705.12.5, 1705.12.6, 1705.12.7)					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Mechanical and Electrical Components	<ul style="list-style-type: none"> • In Seismic Design Categories C, Special Inspection is required for mechanical and electrical equipment as follows (as applicable to project): <ol style="list-style-type: none"> 1. Anchorage of electrical equipment for emergency and standby power systems. 2. Installation of mechanical and electrical equipment, including ductwork, piping systems, and their structural supports, where automatic fire sprinkler systems are installed. Confirmation that minimum clearances have been provided as required by Section 13.2.3 ASCE/SEI 7. 	IBC 1705.12.6, Item 6. ASCE/SEI 7	MEP & TA	Periodic	In conjunction with related field visits

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²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

**Statement of Special Inspections
Pre-Engineered Metal Building**

6 April 2026

Manchester Water Works
City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Project	Manchester Water Works	
Location	1581 Lake Shire Rd #151 Manchester, NH 03109	
Owner	Manchester Water Works 281 Lincoln Street Manchester, New Hampshire 03103 Contact: Philip Croasdale	Tel: 603-624-6494
Architect of Record (AOR) & Registered Design Professional in Responsible Charge (RDP)	Richard R. Pizzi, CEO richard.pizzi@lbpa.com Lavallee Brensinger Architects 155 Dow St. Manchester, NH	Tel: 603-622-5450
Structural Engineer of Record (SER2) Provided by Pre-Engineered Metal Building Manufacturer	To be determined.	Tel:
Testing Agency (TA)	To be determined	
Geotechnical Engineer (GE)	See Base Building Statement of Special Inspections	
Specialty Engineer(s) (SE)	See Performance Specifications on Page 2	

This Statement of Special Inspections is submitted as a condition for issuance of a building permit in accordance with Section 1704 of the New Hampshire State Building Code (IBC 2021).

The firms, agencies, or individuals noted above (hereafter referred to collectively as agents) will perform the structural tests and inspections as specified herein.

A final letter shall be issued by the Testing Agency following the completion of all work in this Document stating that all items have been inspected and all deficiencies have been corrected.

The complete set of Contract Documents (Drawings and Specifications) that accompany the application for building permit is to be considered attached to this program as reference material.

This program does not relieve the Contractor of their responsibility to conduct the work in accordance with the requirements of the Construction Documents, the approved Shop Drawings and the New Hampshire State Building Code.

**Statement of Special Inspections
Pre-Engineered Metal Building**

6 April 2026

Manchester Water Works
City of Manchester, New Hampshire

100% Pricing Submission - Not For Construction

Construction Categories: The following construction categories are included in the Statement of Special Inspections for this project. Specific tests and inspections required for each designated category are listed on the page noted opposite the category.

<u>Construction Category</u>	<u>Page</u>	<u>Construction Category</u>	<u>Page</u>
Structural Steel Framing	<u>3</u>		
Shear Connectors	<u>3</u>		
Steel Joist Framing	<u>4</u>		
Steel Decking	<u>4</u>		
Cold Formed Metal Framing	<u>5</u>		

Performance Specifications: The following construction components are designated in the Contract Documents on the basis of a performance specification to be designed by the Contractor's or Subcontractor's registered professional engineer, i.e. Specialty Engineer (SE).

Reports: Test and inspection reports prepared by the AOR, SER, TA, GE, and SE will be collected and maintained by the RDP and distributed, according to the procedures established by the Building Official. Prior to the issuance of a certificate of occupancy the RDP will submit a final letter to the Owner and Building Official in accordance with IBC 1704.2.4.

Prepared by the SER2:

Registered Design Professional in Responsible Charge:

Name: TBD
New Hampshire P.E. Registration # ____

Name: Richard R. Pizzi, AIA
New Hampshire Registered Architect # 2661

Signature: _____

Signature: _____

Firm: TBD

Firm: Lavallee Brensinger Architects

Date: _____

Date: _____

Statement of Special Inspections
Pre-Engineered Metal Building
Manchester Water Works
City of Manchester, New Hampshire

6 April 2026

100% Pricing Submission - Not For Construction

Steel Construction (IBC 2021 Section 1705.2) (Specification Sections 051200, 051226, 052100, 053100, and 13 34 19)					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Steel Construction QC Review	<ul style="list-style-type: none"> Review Contractor's field quality control procedures. Review frequency and scope of field testing and inspections. 	Spec. Section 051200	SER	-	Each submittal
2. Fabricator and Erector Certifications	<ul style="list-style-type: none"> Review AISC Certified Fabricator and AISC Certified Erector Submittals. 	AISC (Fabricator) Certification Standard for Steel Building Structures (BU) and AISC Certified Steel Erector (CSE)	SER & TA	-	Each submittal
4. Materials	<ul style="list-style-type: none"> Review material certifications for conformance to Specifications. 	AISC 360 A3.1 AISC 360 A3.3 & 3.4 Spec. Section 051200	SER & TA	-	Each submittal
5. Anchor Rod Survey	<ul style="list-style-type: none"> Review Contractor's as-built survey. 	Spec. Section 051200	SER	-	Each submittal
6. Anchor Rods	<ul style="list-style-type: none"> Verify that all anchor rods have been properly tightened and have adequate fit-up. 	ASTM F1554 AISC 360 M4 Spec. Section 051200	SER & TA	Periodic	All anchor rods
7. Bolting	<ul style="list-style-type: none"> Verify bolt size and grade. Test and inspect bolted connections. 	AISC 360 A3.3 & M2.5 Spec. Section 051200 AISC Specification for Structural Joints Using A325 or A490 Bolts	TA	Periodic	All bolts
			SER	-	During aperiodic site visits
8. Welding	<ul style="list-style-type: none"> Check welder qualifications. Check weld identification markings. Test and inspect welds. 	AWS D1.1 Section 6 Spec. Section 051200	TA	<u>Continuous:</u> <ul style="list-style-type: none"> Complete and partial penetration groove welds, Multiple pass fillet welds, Plug and slot welds Single pass fillet welds >5/16" <u>Periodic:</u> <ul style="list-style-type: none"> Fillet welds ≤ 5/16" 	<u>At moment connections:</u> Visually inspect and test all welds by ultrasonic or radiographic methods. If for an individual welder, the rejection rate is demonstrated to be five (5) percent or less, the non-destructive testing rate may be reduced to twenty-five (25) percent for the individual welder. The evaluation of the welding shall be based on a sampling of at least forty (40) completed welds. <u>At all other welds:</u> Visually inspect all welds.
			SER	-	During aperiodic site visits

Statement of Special Inspections
Pre-Engineered Metal Building
Manchester Water Works
City of Manchester, New Hampshire

6 April 2026

100% Pricing Submission - Not For Construction

9. Shear Connectors	<ul style="list-style-type: none"> • Check against Construction Documents and latest approved shop drawings. • Inspect shear connectors for size, quantity, and location. • Test shear connectors for proper weld attachment. 	AWS D1.1 Section 7 Construction Documents Spec. Section 051226	TA	Periodic	Test a minimum of 10% of shear connectors; if one or more fail, then test all shear connectors.
			SER	-	During aperiodic site visits
10. Structural Framing, Details, and Assemblies	<ul style="list-style-type: none"> • Check against Construction Documents and latest approved shop drawings. • Inspect for size, grade of steel, camber, installation, and connection details. • Verify steel frame joint details including: <ul style="list-style-type: none"> • Details such as bracing and stiffeners • Moment connections • Joint configurations and locations • Preparation of faying surfaces 	Construction Documents Spec. Section 051200	TA	Periodic	All framing, details, and assemblies.
			SER	-	During aperiodic site visits
11. Expansion & Adhesive Anchors	<ul style="list-style-type: none"> • Review installation procedures for both mechanical anchors and adhesive anchors. • Verify that materials are suitable for job conditions. 	ACI 318 Appendix D Anchor manufacturer's instructions	TA ³	Periodic	All anchors
			SER	-	Each submittal
12. Steel Decking	<ul style="list-style-type: none"> • Verify gage, depth, and type. • Inspect placement, laps, welds, side lap attachments, and mechanical fasteners • Check welder qualifications. 	SDI Steel Deck Design Manual AWS D1.3 Section 7 Construction Documents Spec. Section 053100	TA	Periodic	All decking and connections
			SER	-	During aperiodic site visits
13. Field Correction of Fabricated Items	<ul style="list-style-type: none"> • Review documentation of approved repairs and verify completion of repairs. 	Construction Documents Spec. Section 051200	TA	As required, per above	Each repair
			SER	-	During aperiodic site visits

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²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

³The initial installation of anchors into each type of material shall be witnessed by both the TA and the anchor manufacturer's technical representative to establish correct procedures for the remaining anchors that will be visually inspected by the TA. The initial installation into each type of material shall be load tested by the anchor manufacturer. Anchor inspections following the initial installations are to be visual inspections unless there are adverse conditions that warrant additional load tests.

Statement of Special Inspections
Pre-Engineered Metal Building
Manchester Water Works
City of Manchester, New Hampshire

6 April 2026

100% Pricing Submission - Not For Construction

Cold Formed Metal Framing Construction³ (IBC 2021 Section 1705.12.5) (Specification Section 054000)					
Item	Tests / Inspections	Code, Standard, or Document Reference	Agency	Type of Inspection ^{1,2}	Frequency
1. Cold Formed Metal Exterior Wall Stud Backup Framing Design and Cold Formed Metal Roof Truss Design	<ul style="list-style-type: none"> Review supplier's structural design of cold formed metal exterior wall stud backup framing and cold formed metal roof trusses. 	Construction Documents Spec. Section 054000	SER	-	Each submittal
2. Materials Certification	<ul style="list-style-type: none"> Review certification of materials. 	AISI Cold Formed Steel Design Manual Construction Documents Spec. Section 054000	SER & TA	-	Each submittal
3. Installation of Cold Formed Metal Exterior Wall Stud Backup Framing	<ul style="list-style-type: none"> Inspect type, size, gauge, spacing and placement of cold formed metal exterior wall studs, connections, anchorage, bridging, accessories, etc. for conformance with the approved Shop Drawings and Contract Documents. Inspect installation of cold formed metal roof trusses, connections, anchorage, bridging, bracing, accessories, etc. 	AISI Cold Formed Steel Design Manual Construction Documents Spec. Section 054000	TA	Periodic	All locations
			SE	-	Once during performance of the work and once after completion of the work
			SER	-	During aperiodic site visits

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²Periodic Inspection: Part-time or intermittent observation of the indicated work by an approved individual of the noted Agency and an inspection of the completed work.

³Testing and inspection of light gauge steel exterior wall framing is not required by IBC 2021 but is recommended by the Design Team.