



# VILLAGE OF TARRYTOWN

One Depot Plaza, Tarrytown, New York 10591-3199

**REQUEST FOR PROPOSAL**  
**Vehicle Exhaust Extraction System**  
**Washington Engine Firehouse - Engine 77**  
**157 White Plains Road**  
**Tarrytown, NY 10591**

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Contractors are requested to submit proposals for providing and installing a complete and operational **Vehicle Exhaust Extraction System** at the above location. All systems must be installed in accordance with all Federal, State and County and Local regulations.

## **PART 1 - GENERAL**

**A. Information: Request for Proposal:**

Issued by: Village of Tarrytown  
Contact: Donato R. Pennella, P.E. Village Engineer  
Telephone: 914-631-3668  
Email: [dpennella@tarrytowngov.com](mailto:dpennella@tarrytowngov.com)

**Bid Due Date & Time:** April 18, 2023 by 11:00 a.m.

The Village of Tarrytown is an Equal Opportunity Employer. Bidders shall comply with all Federal, State and Local hiring practices. All proposals must be based on the utilization of N.Y.S prevailing rates and wages. Certified payrolls will be required.

The Village of Tarrytown reserves the right to accept or reject any or all proposals, or portions of a proposal, if deemed in the best interest of the Village of Tarrytown.

**Pre-bid conference: April 11, 2023 at 10:00 a.m. Mandatory**

Location: 157 White Plains Road, Tarrytown, NY 10591

**Bid Due Date: April 18, 2023 by 11:00 a.m.**

**Request for Proposal must meet grant guidelines, website included below:**

**Department of Homeland Security (DHS)**  
**Notice of Funding Opportunity (NOFO)**  
**Fiscal Year 2021 Assistance to Firefighters Grant (AFG) Program**

[https://www.fema.gov/sites/default/files/documents/fema\\_fy21-afg-nofo.pdf](https://www.fema.gov/sites/default/files/documents/fema_fy21-afg-nofo.pdf)

- B. Scope of Work:** Provide all labor, products and equipment for a complete and operational Vehicle Exhaust Extraction System at the Washington Firehouse - Engine Company 77 located at 157 White Plains Road, Tarrytown, NY, 10591.
- C. System Operational Performance:** The exhaust extraction system shall be designed to vent 100% of fire truck vehicle exhaust gases and particulate safely to the outside of the firehouse. The exhaust system shall be designed and installed by factory trained and authorized personnel, certified by the manufacturer of the exhaust system. Manufacturers shall be required to have a minimum of five years of proven manufacturing experience in the manufacture of emergency vehicle exhaust extraction equipment.
1. Department personnel shall be able to utilize the exhaust system for performing engine and pumper checks indoors.
  2. System shall be designed for high temperature vehicle exhaust fire rescue applications. The system shall automatically activate, disconnect, shutdown, and reactivate upon return without human intervention.

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**PART 2 – SPECIFICATIONS****A. Quality Standard Assurance and Experience:**

1. Standards of quality - The following industry standards must be complied with: UL, NFPA, AMCA, IMC, ASME, UMC, NEC and all local and NYS state building codes. A current ISO9001-2015 certification must be included in the bid package from the manufacturer of the system supplying the extraction system.
2. Independent system testing information documenting the overall effectiveness of the proposed system in a fire station must be provided.
3. Manufacturing Experience: Five or more years of manufacturing experience of automatic vehicle exhaust removal systems for the fire and rescue market.
4. Equipment installation contractor must show 5 years of experience in installing vehicle exhaust removal systems in the fire and rescue industry.

**B. System Description:**

1. Exhaust system shall be a source capture system designed to handle exhaust fumes from diesel engines. The system shall be provided with a capture point within the firehouse and capable of retrieving and discharging 650 CFM per vehicle and future expansion. Tailpipe adapters shall be of similar size throughout to permit for flexibility of apparatus placement. Installation must be neat and clean using best materials available.
2. System design shall be a sliding balancer track or pneumatic rail system.

**C. Air Volume and Fan Requirements:**

1. Exhaust fan shall be capable of extracting of 650 CFM vehicle exhaust with a maximum of 6.0 inches static pressure loss. Motor/ Blower curve performance information from the manufacturer must be provided with the bid document indicating air handling capacity at various static pressure losses.
2. Fans shall be tested and balanced prior to installation and manufactured in an ISO Certified Facility in accordance to AMCA Certification Standards. A safety disconnect in the vicinity of the blower fan motor shall be provided.
3. Exhaust system hose drops shall be of the same cross-sectional diameter as the vehicle tailpipe or greater. Exhaust system shall maintain exhaust rate (CFM) that matches the cfm of the vehicle engine exhaust when running at 1500 RPM. Pressure through the hose that does not match or exceed the size of the tailpipe and the cfm of the engine's exhaust will not be accepted.

**D. Turnkey Installation**

1. Exhaust system installation shall be complete and operational with exhaust fan, control box, ductwork, track, hose and nozzle connection. All required electrical work and/or upgrade to the building electric to accommodate ventilation system shall be included in the bid. Tailpipe modifications to the vehicle from the muffler to the end required to ensure proper system operation shall be included in the bid. All duct material shall conform to Class II SMACNA Standards. An appropriate rain cap shall be provided on the building exterior.
2. System components shall be labeled with manufacturer identification and be standard equipment from the manufacturer.
3. Installation of Exhaust System shall be performed by a factory trained and authorized installation contractor specializing in the installation of emergency response exhaust systems.

**E. Nozzle Attachment**

1. The Exhaust Capture System must provide complete, 100% exhaust removal at the source from vehicle start up to exit of the apparatus from the station. In no event shall the nozzle allow for the potential escaping of diesel exhaust into the bay area. A check valve is required to stop contaminant from escaping into the bay area. It is a requirement of this bid that the system be capable of capturing 100% of exhaust gas and particulate even in the event the fan does not activate. Any nozzle that does not seal completely seal 100% around the tailpipe will not be accepted.
2. The exhaust system shall be attached to the vehicle within 3 feet of the door threshold.
3. The system shall be designed so that attachment to exhaust hose is accomplished by the operator standing erect and with one simple motion to connect system to the vehicle.
4. Provision shall be provided to allow for easy hose connection.
5. The nozzle shall allow for the introduction of ambient air to significantly cool the air stream inside the hose and prolong the life of the equipment
6. All adapters and nozzles shall be of similar size to allow vehicles to freely move from bay to bay.
7. Tailpipe adapter and nozzle must have inlet that is 5 inches or greater, so exhaust airflow is not impeded. Nozzle to flex hose elbow transition must also be 5 inches or larger to maximize airflow.
8. Adapter shall be manufactured of rust resistant material to ensure consistent

good connection.

9. The system shall not require any mechanism that attaches to the body or frame.

#### **F. Nozzle Release and Material**

1. The disconnection of the hose shall not be speed dependent and have a mechanism that helps lift the exhaust nozzle off the vehicle tailpipe. The nozzle must separate from the tailpipe at the same point each time regardless of the speed of the vehicle.
2. Any auto-release system that is speed sensitive requiring the driver to modify the exit speed to control the nozzle release shall not be accepted.
3. Release of nozzle from the tailpipe shall not cause undue tugging or stretching of the hose to occur.

#### **G. Sliding Aluminum Track/ Expandable Hose Track**

1. The exhaust system shall use a lightweight aluminum track support system to convey the exhaust hose from door threshold to vehicle park position.
2. Rail and track system must be supported using adjustable legs allowing for future adjustment and changes to the system.

#### **H. Suction Rail**

1. The suction rail system shall be comprised of Rail Sections which shall have a minimum length of ten feet (10').
2. The aluminum suction rail shall be constructed from a one-piece continuous extruded aluminum profile.
3. The trolley assembly shall be of external guide rail design. Four wheels must be out of the exhaust airstream and allow the trolley assembly to roll freely along the external guide rails, or if internally mounted have engineering design which assures the ability of the trolley to roll freely and not have performance impacted by the accumulation of diesel exhaust particles or other debris encountered during normal and routine operation.
4. Shock absorber assembly shall be capable of reducing the forward impact of the trolley assembly, without causing damage to either the suction rail or the trolley assembly.

#### **I. Extraction System Exhaust Hose**

1. The flexible exhaust hose is manufactured for the sole purpose of venting high

temperature exhaust gases which are produced by internal combustion engines.

2. This construction of hose must be capable of operating at a continuous minimum temperature sufficient to support prolonged vehicle idling with the potential to intermittently support increased exhaust temperatures if engines enter a regeneration cycle. Testing support data indicating the hose rating should be included in the submittal portion of this package.
3. Five-inch diameter flex hoses are preferred to smaller hoses to provide less static pressure loss and more efficient fan performance.
4. Lower section of hose shall be included with extreme heat tolerance. Lower section hose additionally shall be flame retardant and include provisions maintain shape and integrity.

#### **J. Auto-Start Control System**

1. Shall be designed to sense the output pressure normally generated by any internal combustion engine. When the nozzle is connected to the vehicle's exhaust tailpipe and the vehicle is started by the operator an automatic controller, the increased output pressure shall be detected by a pressure sensor and activate the exhaust fan. A low voltage timer will keep the exhaust fan operating for a period designated by fire department procedures. A manual mode will be provided to allow truck checks to be completed in the bay. As an option, ignition start activation may be also offered for consideration.
2. Controller Electrical controller must be UL listed/approved and manufactured in accordance with Underwriters Laboratories standard UL508 enclosed industrial control panels and incorporate a limited energy control circuit. For safety the enclosure must be NEMA4X rated fiberglass construction with a water tight seal.

#### **K. System Warranty**

1. Complete exhaust system parts warranty shall be for a minimum of 5 years. A warranty certificate describing the warranty to be provided must be enclosed. Location and name of nearest service outlet should be listed. Location of parts inventory shall be indicated as well. All equipment must be covered in its entirety by the manufacturer's warranty.

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**PART 3 – EXECUTION****C. Limitations to Liability**

The Village of Tarrytown does not assume responsibility or liability for costs incurred by Firms responding to the RFP, or to any subsequent requests for interviews, additional data, etc.

**D. Award of Contract**

1. A contract shall not be awarded solely on the basis of fee. The Village of Tarrytown will contract with a qualified firm at a compensation which is fair and reasonable. The Village of Tarrytown has the right to reject any and all proposals.
2. The Firm's response shall show a clear understanding of the task(s) objectives, and services required, and demonstrate the ability to perform within the required time frame.
3. The Firm must demonstrate it has the proper qualifications, experience and equipment, with a satisfactory "track record" on similar projects.
4. Subcontractor(s): If used, the Contractor shall provide the name(s) in advance of any sub-contractor(s), and other designated personnel who will be assigned to the project.
5. The Firm's staff and equipment shall be of adequate size to carry out the requirements within the required time frames. If a sub-contractor is to be employed, the sub-contractor must be approved by the Village of Tarrytown and must demonstrate all the qualifications required in Award of Contract, Section "D", paragraph # 2 and 3.
6. Lump Sum Price.

**E. Assignment of Contract**

The Firm / Contractor shall not assign, transfer, or otherwise dispose of the contract to any person, company, partnership or corporation without prior written consent of the Village of Tarrytown.

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**F. Form of Contract**

The contract shall be:

  X   Standard Form of Agreement between Owner and Contractor.

       EJCDC No. 1910-1, Standard Form of Agreement between Owner and Engineer for Professional Services

       AIA Document B727, Standard Form of Agreement between Owner and Architect

       EJCDC No. 1910-19, Standard Form of Agreement between Owner and Engineer for Study and Report Phase Professional Services

Modified to incorporate the following:

1. The fee shall be a lump sum. Open-ended hourly fees or percentages of fees are not acceptable.
2. Reference to interest payments shall be deleted.
3. Payments are subject to Village of Tarrytown approval.
4. The Firm / Contractor is expected to address Tarrytown technical review comments on all contract documents, payment requisitions, change orders, and reports and to attend any related meetings. The firm/contractor is to adhere to any Village of Tarrytown specifications that apply.
5. Village of Tarrytown is Tax Exempt.

**G. Insurance**

Prior to commencement of any work under this Contract and until completion and final acceptance of the work, the Contractor/Provider shall, at its sole expense, maintain the following insurance on its own behalf, and furnish to the Village of Tarrytown certificates of insurance evidencing same and reflecting the effective date of such coverage as follows:

The term “Contractor/Provider” as used in this indemnification agreement shall mean and include Subcontractors of every tier.

1. **Worker’s Compensation and Employers Liability Policy**, covering operations in New York State. Where applicable, U.S. Longshore and Harbor Workers Compensation Act Endorsement and Maritime Coverage Endorsement shall be attached to the policy. Evidence must be provided on a C-105.2. Waiver of Subrogation to be included.



2. **N.Y.S. Disability**, covering all employees. DB 120.1 must be provided.
3. **Commercial General Liability Policy**, with limits of no less than \$1,000,000 Each Occurrence/\$2,000,000 Aggregate limits for Bodily Injury and Property Damage, and shall include coverage for:
  - A. Premises & Operations
  - B. Products/Completed Operations;
  - C. Independent Contractors;
  - D. Personal & Advertising Injury
  - E. Blanket Contractual Liability
  - F. XCU
  - G. Village of Tarrytown and their assigns, officers, employees, representatives and agents should be named as an “Additional Insured” on the policy using ISO Additional Insured Endorsement CG 20 10 11/85 or an endorsement providing equivalent or broader coverage and shall apply on a primary and non-contributory basis, including any self-insured retentions. The Certificate of Insurance should show this applies to the General Liability coverage on the certificate, and Additional Insured Endorsement shall be attached.
  - H. To the extent permitted by New York law, the Contractor/Provider waives all rights of subrogation or similar rights against Village of Tarrytown, assigns, officers, employees, representatives and agents.
  - I. General Aggregate shall apply separately to each project (must be on an occurrence form).
  - J. Cross Liability coverage (Commercial General Liability and Business Automobile Liability policies only). General Liability policy must NOT contain any coverage exclusions or restrictions related to the scope of work being performed as well as injuries to employees, subcontractors, or employees of subcontractors (i.e. labor law).
4. **Comprehensive Automobile Policy**, with limits no less than \$1,000,000 Bodily Injury and Property Damage liability including coverage for owned, non-owned, and hired private passenger and commercial vehicles.
  - A. Village of Tarrytown and their assigns, officers, employees, representatives and agents should be named as an “Additional Insured” on the policy. The Certificate of Insurance should show this applies to the Automobile Liability coverage on the certificate, and Additional Insured Endorsement shall be attached.
  - B. To the extent permitted by New York law, the Contractor/Provider waives all Rights of subrogation or similar rights against the Village of Tarrytown, assigns, officers, employees, representatives and agents.

- C. **Umbrella Liability**, with limits of no less than \$3,000,000 Each Occurrence/\$3,000,000 Aggregate, including coverage for General Liability, Automobile, and Workers Compensation and Professional Liability (if applicable). Waiver of Subrogation to be included in favor of the Village of Tarrytown. Coverage for the additional insured shall apply on a primary and non-contributory basis, including any self-insured retentions.
  
- D. **Certificates** shall provide that thirty (30) days written notice prior to cancellation or expiration be given to the Village Engineer, Village of Tarrytown, One (1) Depot Plaza, Tarrytown, New York 10591. Policies that lapse and/or expire during term of work shall be recertified and received by the Village of Tarrytown no less than thirty (30) days prior to expiration or cancellation.

#### H. **Response to Technical Proposal**

- 1. Before submitting a proposal, the Firm / Contractor shall examine all documents included with the RFP. The submission of a proposal will be construed as evidence that such an examination has been made.
  
- 2. The Firm / Contractor proposal shall outline the procedure and work plan to be followed and the time schedule to complete the work and shall stipulate the fee.
  
- 3. A management plan outlining the proposed staff assignments, including person-hours and scheduled activities, shall be included in the proposal. Resumes of key personnel and sub-contractors to be assigned to the project shall also be included. The Firm / Contractor are required to demonstrate that the firm has or will have adequate qualified staff, in accordance with paragraph H in Section 1.
  
- 4. The Firm / Contractor shall identify key problem areas, citing scheduling and cost implications, if any.
  
- 5. The Firm / Contractor shall list the other similar or related projects recently performed, listing the owner's name, address, contact person, phone number, description and date of completion for each project.
  
- 6. The Firm / Contractor shall submit a copy of the firm's Certificates of Insurance.

**PROPOSAL AND SCHEDULE FOR BIDS  
EXECUTION OF THIS FORM IS MANDATORY UNDER STATE LAW**

**NON-COLLUSIVE BIDDING CERTIFICATION**

Made pursuant to Section 103-d of the General Municipal Law of the State of New York, as amended by the Laws of 1966.

“(a) By submission of this Bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies a to its own organization, under penalty of perjury, that to the best of his knowledge and belief:

“(1) The prices in this Bid have been arrived at without collusion, consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other Bidder or with any competitor;

“(2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not be knowingly disclosed by the Bidder prior to the opening, directly or indirectly, to any other Bidder or to any competitor;

“(3) No attempt has been made or will be made by the Bidder to induce any other person, partnership or corporation to submit or not to submit a Bid for the purpose of restricting competition.

“(b) A proposal shall not be considered for award nor shall any award be made where (a) (1), (2) and (3) above have not been complied with, provided, however, that, if in any case the firm submitting the proposal cannot make the foregoing certification, the firm submitting the proposal shall so state and shall furnish with the Bid a signed statement which sets forth in detail the reasons therefore. Where (a) (1), (2) and (3) above have not been complied with, the proposal shall not be considered for award, nor shall any award be made unless the head of the purchasing unit of the political subdivision, public department, agency or official thereof to which the bid is submitted, or his designee, determines that such disclosure was not made for the purpose of restricting competition”.

Dated \_\_\_\_\_, 2023  
(Seal of Corporation)

\_\_\_\_\_  
Legal Name of Person, Firm or Corporation

Business Address of Person, Firm or Corporation

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_ Title \_\_\_\_\_  
Signature

**RFP – VEHICLE EXHAUST EXTRACTION SYSTEM**

**BID SHEET**  
**(Lump Sum)**

**TOTAL COST:**

In Numbers:                    \$ \_\_\_\_\_

In Words: \_\_\_\_\_  
\_\_\_\_\_

**CONTRACTOR INFORMATION:**

Company Name: \_\_\_\_\_

Company Address: \_\_\_\_\_  
\_\_\_\_\_

Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_

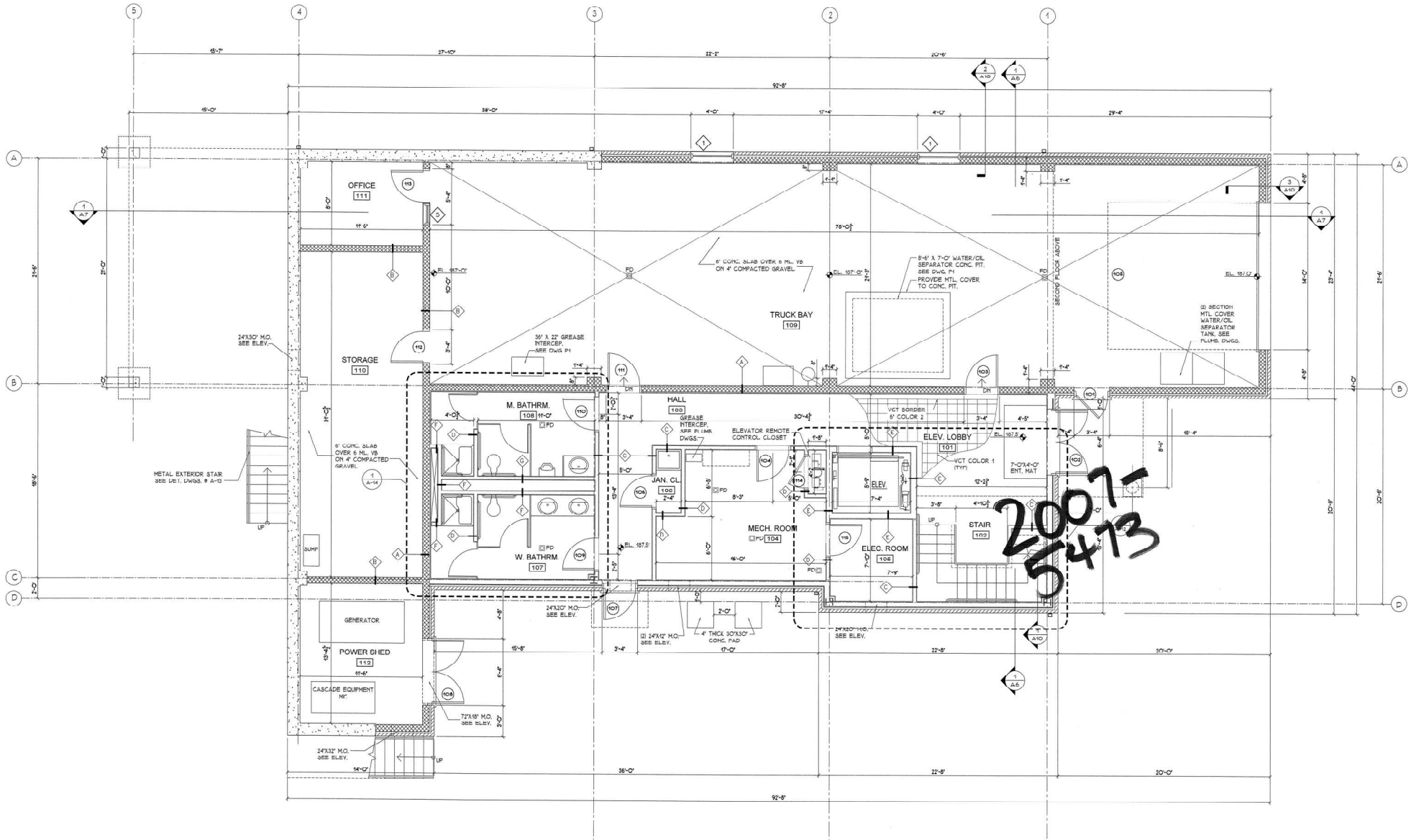
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E-Mail Address: \_\_\_\_\_

\_\_\_\_\_  
(Signature)

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(Print Name)

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(Date)



FIRST FLOOR PLAN

1/4" = 1'-0"

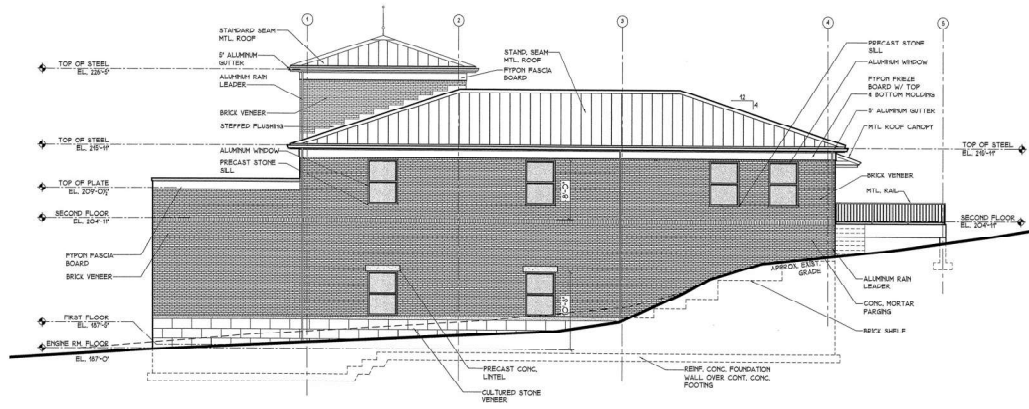
NOTES

- FOR LOWER INFORMATION & LOCATION REFER TO ELEVATIONS DWG. AS COORDINATE WITH MEP DRAWINGS FOR EQUIPMENT SIZE & INFORMATION.
- GENERAL CONTRACTOR TO FRAME AROUND MECH & ELEC. DEVICES AND EQUIPMENT.



<b>SEAN E. McCARTHY</b> ARCHITECT <small>10 MARLE STREET, SLEEPY HOLLOW, NEW YORK, 10591          914-561-0370          sean@seccarthy.com</small>	PROJECT TITLE <b>FIRST FLOOR PLAN</b>	SCALE 1/4" = 1'-0"	PROJECT # 1005 - 6
	DATE SEPT. 11, 2006	DRAWING <b>A2</b>	REVIEWER  

VILLAGE OF TARRYTOWN  
 WASHINGTON ENGINE CO.  
 FIREHOUSE  
 TARRYTOWN, NY 10591



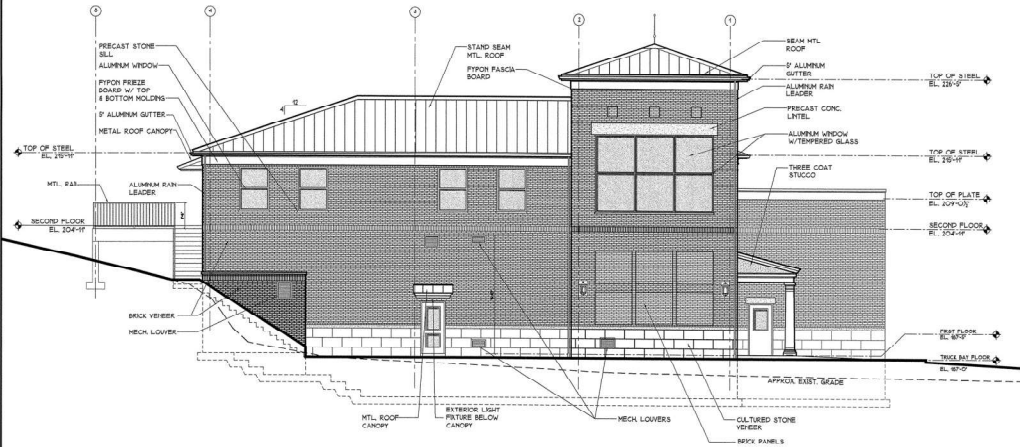
WEST ELEVATION

1/8" = 1'-0"



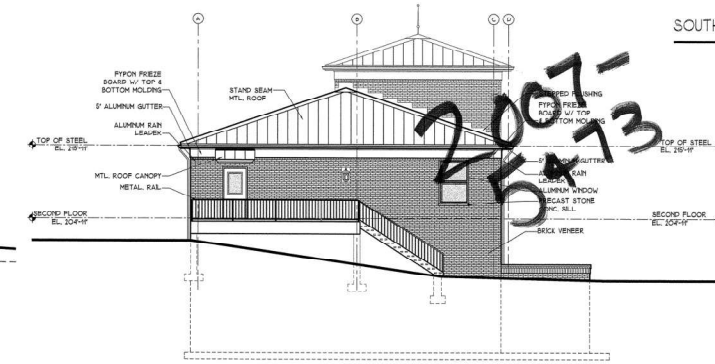
SOUTH ELEVATION

1/8" = 1'-0"



EAST ELEVATION

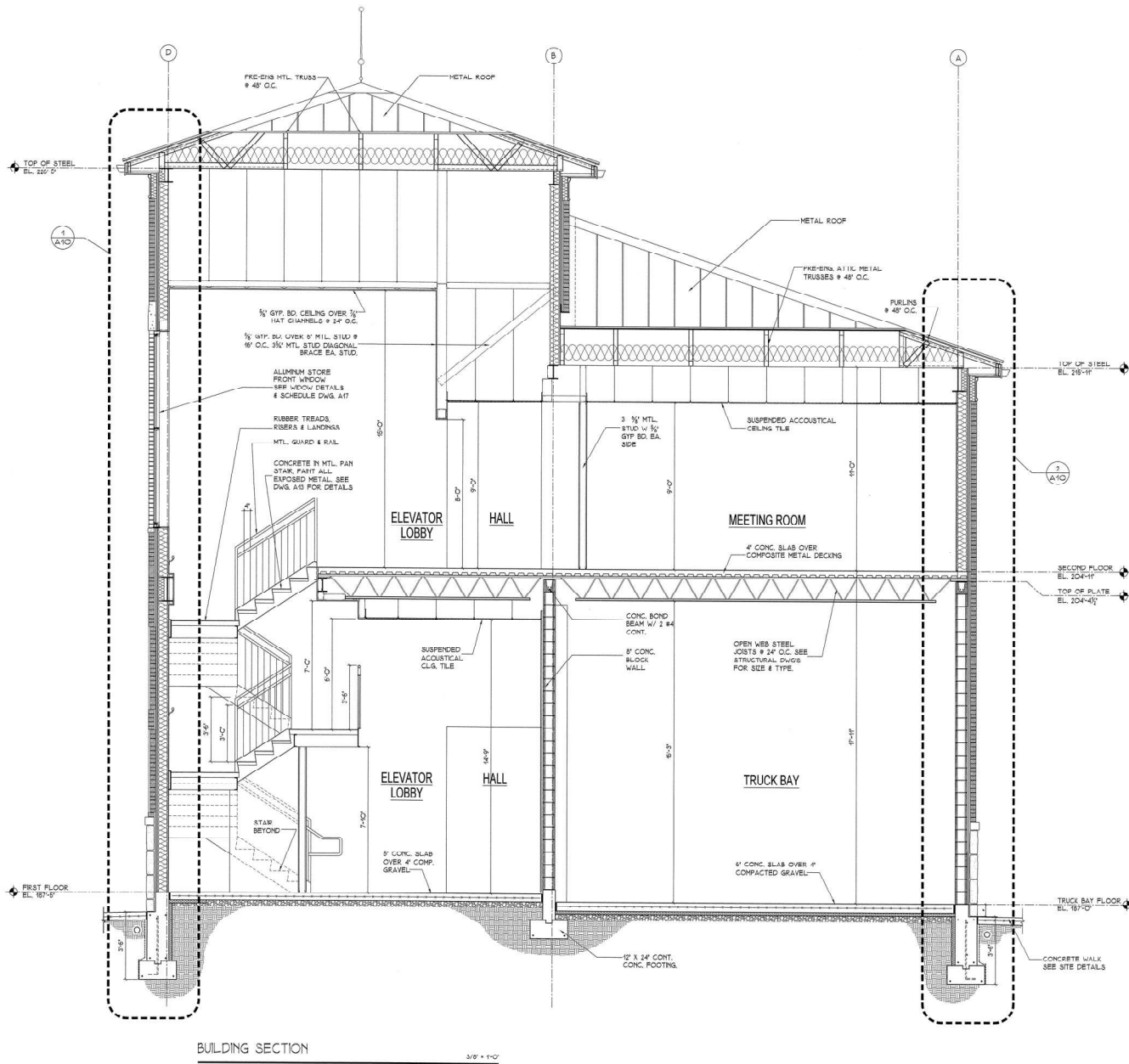
1/8" = 1'-0"



NORTH ELEVATION

1/8" = 1'-0"

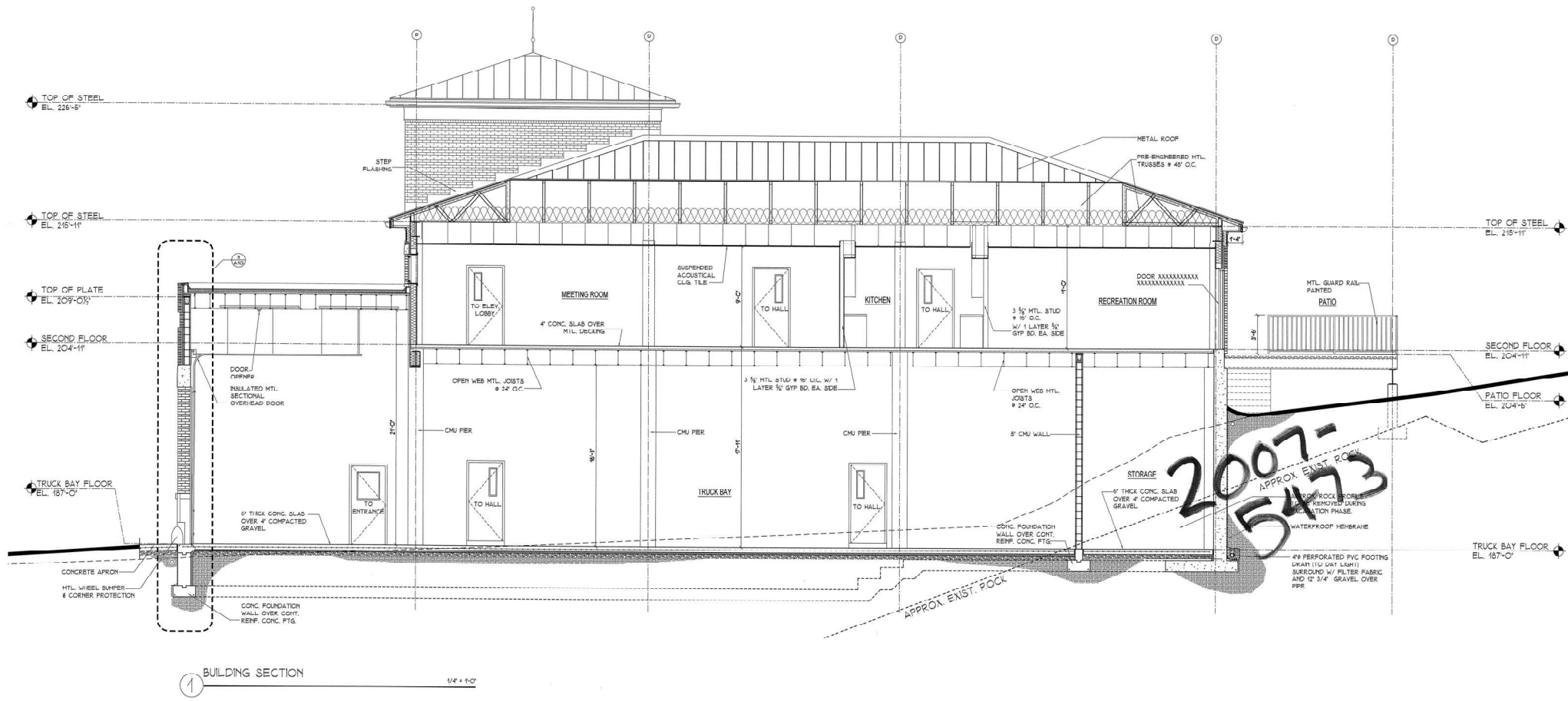
SEAN E. MCCARTHY ARCHITECT 15 HAVLE STREET, SLEEPY HOLLOW, NEW YORK, 10591 914-348-6791 www.seanmc.com	ELEVATIONS DATE:	AS NOTED DATE: SEPT. 11, 2006 REVISIONS:	SHEET NO. 2006-6 DRAWING NO. A5 OF
	VILLAGE OF TARRYTOWN WASHINGTON ENGINE CO. FIREHOUSE TARRYTOWN, NY 10591		



2007-5473

BUILDING SECTION 3/8" = 1'-0"

<b>SEAN E. McCARTHY</b> ARCHITECT <small>16 MAPLE STREET, SLEEPY HOLLOW, NEW YORK 10591          914-548-6376          seanmcc@optonline.net</small>	<small>DESIGN TITLE</small> BUILDING SECTION & DETAILS	<small>SCALE</small> AS NOTED	<small>PROJECT #</small> 2005 - 6
	<small>DATE</small> SEPT. 11, 2006	<small>DATE</small> SEPT. 11, 2006	<small>DRACING</small> A6
	<small>REVISED</small>	<small>REVISED</small>	<small>OF</small> OF



<b>SEAN E. McCARTHY</b> ARCHITECT <small>16 MAPLE STREET, SLEEPY HOLLOW, NEW YORK 10591          914-548-6376      smccarthy@optonline.net</small>	DESIGNED BY	SCALE	PROJECT #
	BUILDING SECTION	AS NOTED	2006 - 6
	VILLAGE OF TARRYTOWN WASHINGTON ENGINE CO. FIREHOUSE TARRYTOWN, NY 10591	DATE	REVISIONS
	SEP 1, 11, 2006		A7
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