

INVITATION TO RE-BID

Sealed bids for the following project will be received by the Procurement Manager until 4:00 P.M., Eastern Time, January 23, 2020, and at that time publicly opened in the Council Room, City Hall. All bids will be considered for award or rejection at a later date.

PROJECT: Nederman Exhaust System Repairs & Maintenance for Eight City Fire Stations

Bid documents for the above referenced item is available online at <https://www.kingsporttn.gov/city-services/purchasing/> interested parties may also contact the Procurement Department at 423-229-9419.

A Pre-Bid Conference will be held at the Engineering Conference Room, 130 Shelby Street, Kingsport, TN at 1:30 P.M., Eastern Time, January 14, 2020.

A bid bond or certified check in an amount equal to five percent (5%) of the total of the bid is required. Certified checks should be made payable to City Treasurer, City of Kingsport. The successful bidder will be required to execute acceptable Performance and Payment Bonds in an amount equal to one hundred (100%) percent of the contract price.

All bidders must be licensed Contractors as required by the Contractors Licensing Act of 1994 (TCA Title 62, Chapter 6). No bid will be opened unless the outside of the sealed envelope containing the bid provides the following information: the Contractor's license number, the date of the license's expiration, and a quotation of that part of his classification applying to the bid; the Geothermal, HVAC, Masonry, Plumbing, Mechanical and Electrical subcontractor's license number, each date of the license expiration and that part of each classification applying to the bid if the value of work is \$25,000 or greater; (\$100,000.00 or greater for Masonry) if value of the subcontractor's work is less than \$25,000, (\$100,000.00 for Masonry), the bid envelope is to be indicated with the phrase "Subcontractor's bid is less than \$25,000" (\$100,000.00 for Masonry) after each appropriate heading. If no Subcontractor's are being used, the outside of the envelope must state, "No Subcontractors are being used on this project".

By submission of a signed bid, the bidder certifies total compliance with Title VI and Title VII of the Civil Rights Act of 1964, as amended, and all regulations promulgated thereunder.

No submitted bids may be withdrawn for a period of sixty (60) days after the scheduled closing time for receipt of bids. All bids shall be signed, sealed and addressed to the Procurement Manager, City of Kingsport, 225 W. Center St., Kingsport, TN 37660, and marked "Nederman Exhaust System Repairs & Maintenance for 8 City Fire Stations" The City by its governing regulations reserves the right to accept or reject any or all bids received, to waive any informalities in bidding and to re-advertise.

PUB IT: 01/05/20

Chris McCartt
City Manager



ENGINEERING DIVISION

City of Kingsport, Tennessee

Memo

To: Interested Contractors

From: Dawn Melton

Date: January 5, 2020

RE: Re-Bid for Nederman Exhaust system repairs and maintenance on eight (8) City Fire Stations.

Please submit a bid for the below and attached described work for providing mechanical maintenance support for the Nederman exhaust removal devices in their fire stations. Work also includes replacement of parts, upgrades, and other associated work.

1. The City of Kingsport has 8 fire stations with a total of 15 Nederman exhaust stations. All of which need some repair. There may also be some new installation as a part of this maintenance work.
2. The distributor for Nederman is Industrial Air Purification, Inc. (IAP) and a parts purchase agreement will have to be detailed.
3. Contractor must be able to respond in a timely manner to minimize labor charges for service calls.
4. Long term maintenance agreement may be possible.
5. Contractor must be able to diagnose and repair both mechanical and electrical problems with the Nederman vehicle exhaust extractor systems.
6. Contractor must meet city, county, and state regulations for offering services as a contractor.
7. Contractor shall provide information on capabilities (both electrical and mechanical) and any experience with Nederman fume hoods.
8. Contractor must be willing to attend training (if required) on systems from Nederman to allow purchasing of parts from IAP the distributor.

Pre-Bid Meeting will be at City of Kingsport Engineering at 130 Shelby Street Kingsport, TN 37660 January 14, 2020 @ 1:30 P.M. A site visit to Fire Station #1 (130 Island Street) will follow Pre-Bid meeting.

Bid Packages are available online at <https://www.kingsporttn.gov/city-services/purchasing/>. Interested parties may also contact the Procurement Department @ 423-229-9419.

Sealed bids shall be received until 4:00 PM eastern time Thursday January 23, 2020, by the Brent Morelock, Procurement Manager in the Council Room, City Hall 225 West Center Street Kingsport, TN 37660.

If you have any comments or questions or would like to visit the sites, please do not hesitate to call me at 423-343-9792.

Dawn Melton

Senior Project Manager

City of Kingsport

Engineering

Office: 423-343-9792

Mobile: 423-863-0462

DawnMelton@KingsportTN.gov



130 Shelby St.

Kingsport, TN 37660

www.kingsporttn.gov

COMPLIANCE AFFIDAVIT(S) (TOTAL OF 2 PAGES)

THIS COMPLIANCE AFFIDAVIT MUST BE SIGNED, NOTARIZED AND INCLUDED WITH ALL BIDS – FAILURE TO INCLUDE THIS FORM WITH THE BID SUBMITTED SHALL DISQUALIFY THE BID FROM BEING CONSIDERED.

VENDOR: _____

CONFLICT OF INTEREST:

1. No Board Member or officer of the City of Kingsport or other person whose duty it is to vote for, let out, overlook or in any manner superintend any of the work for the City of Kingsport has a direct interest in the award of the vendor providing goods or services.
2. No employee, officer or agent of the grantee or sub-grantee will participate in selection, or in the award or administration of an award supported by Federal funds if a conflict of interest, real or apparent, would be involved. Such a conflict would arise when the employee, officer or agent, any member of their immediate family, his or her partner, or an organization, which employs, or is about to employ, any of the above, has a financial or other interest in the firm selected for award.
3. The grantee's or sub-grantees officers, employees or agents will neither solicit nor accept gratuities, favors or anything of monetary value from vendors, potential vendors, or parties to sub-agreements.
4. By submission of this form, the vendor is certifying that no conflicts of interest exist.

DRUG FREE WORKPLACE REQUIREMENTS:

5. Private employers with five or more employees desiring to contract for construction services attest that they have a drug free workplace program in effect in accordance with TCA 50-9-112.

ELIGIBILITY:

6. The vendor is eligible for employment on public contracts because no convictions or guilty pleas or pleas of nolo contendere to violations of the Sherman Anti-Trust Act, mail fraud or state criminal violations with an award from the State of Tennessee or any political subdivision thereof have occurred.

GENERAL:

7. Vendor fully understands the preparation and contents of the attached offer and of all pertinent circumstances respecting such offer.
8. Such offer is genuine and is not a collusive or sham offer.

IRAN DIVESTMENT ACT:

9. Concerning the Iran Divestment Act (TCA 12-12-101 et seq.), by submission of this bid/quote/proposal, each vendor and each person signing on behalf of any vendor certifies, and

in the case of a joint bid/quote/proposal, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each vendor is not on the list created pursuant to § 12-12-106.

NON-COLLUSION:

10. Neither the said vendor nor any of its officers, partners, owners, agents, representatives, employees or parties interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other responder, firm, or person to submit a collusive or sham offer in connection with the award or agreement for which the attached offer has been submitted or to refrain from making an offer in connection with such award or agreement, or collusion or communication or conference with any other firm, or, to fix any overhead, profit, or cost element of the offer price or the offer price of any other firm, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the City of Kingsport or any person interested in the proposed award or agreement.
11. The price or prices quoted in the attached offer are fair, proper and not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the firm or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

BACKGROUND CHECK REQUIREMENT FOR SCHOOL SYSTEM SUPPLIERS:

12. In submitting this bid/quote/proposal, you are certifying that you are aware of the requirements imposed by TCA § 49-5-413 (d) to conduct criminal background checks through the Tennessee Bureau of Investigation and the Federal Bureau of Investigation on yourself and any of your employees who may come in direct contact with students or who may come on or about school property anytime students are present. You are further certifying that at no time will you ever permit any individual who has committed a sexual offense or who is a registered sex offender to come in direct contact with children or to come on or about school property while students are present.

The undersigned hereby acknowledges and verifies that the response submitted to this solicitation is in full compliance with the applicable laws/listed requirements.

SIGNED

BY: _____

PRINTED NAME: _____

TITLE: _____

SUBSCRIBED AND SWORN TO BEFORE ME THIS DATE: _____

BY (NOTARY PUBLIC): _____

MY COMMISSION EXPIRES ON: _____

PROJECT: 2020 CITY OF KINGSPORT CONTRACTED EXHAUST SYTEMS REPARIS AND MAINTENANCE

Project Description:

Work to be bid upon as follows: The City of Kingsport is seeking reputable local companies that are interested in providing electrical and mechanical maintenance support for the Nederman exhaust removal devices in their fire stations. Work also includes replacement of parts, upgrades, and other associated work.

I propose to commence the work within 20 calendar days after notification of acceptance of bid and complete the work in 90 calendar days.

LIQUIDATED DAMAGES

As actual damages for any delay in completion of the work which the Contractor is required to perform under this Contract are impossible of determination, the Contractor and his Sureties shall be liable for and shall pay to the owner the sum of \$100.00 per day as fixed, agreed and liquidated damages for each calendar day of delay from the above date stipulated for completion, or as modified in accordance with Section "Changes in Work" under GENERAL CONDITIONS, until such work is satisfactorily completed and accepted.

My Terms are AS PER BID DOCUMENT.

The bidder hereby agrees that the Board of Mayor and Aldermen have the right to reject any and all bids received and to waive any informalities.

Certified check or bid bond is herewith deposited with the City Treasurer, in the sum of 5% of the total bid amount, made payable to the order of City Treasurer of the City of Kingsport, Tennessee, with the understanding that if the bid herewith submitted is rejected, the said check will be returned to the bidder; and if the said bid is accepted by the City of Kingsport, check will be returned to the bidder upon the execution and securing of a contract to do the said work. If awarded the contract to this work, and the bidder refuses or neglects to execute a written contract to do the same and furnish security in the amount required within ten days after being notified that the contract has been awarded to him the certified check shall be forfeited to the City as liquidated damages for such neglect or refusal, and the amount so collected shall be paid into the fund set aside for the City's portion of the cost of the proposed improvement.

The successful contractor shall provide for workman's compensation and comprehensive general public liability insurance in amounts acceptable to the City. The contractor will furnish comprehensive automobile liability insurance and insurance in such form as shall be satisfactory to the City. The contractor shall furnish owner's liability insurance to defend, indemnify and save harmless the City of Kingsport from any and all claims and suits for injury to persons or property arising out of the performance of the contract caused in any way by the acts or omissions of the contractor or the contractor's agents, employees, or subcontractor during or in connection with the contract work, excepting bodily injury or death or property damage caused by the sole negligence of the owner, its agents or employees. The successful contractor is required to complete a Beneficial Owners Form for projects which exceed \$500,000.00. The form will be provided to the successful contractor at the Pre-Construction Meeting and will be required to be submitted to the City with the first Pay Application/Request.

We have read and acknowledge the requirements of owner's liability insurance to save and defend the City harmless.

We acknowledge receipt of _____ addendum(s) to this project.

BID TO BE SUBMITTED IN DUPLICATE

HANDWRITTEN Signature of Authorized
Representative

FIRM

Date

Tennessee Contractor's License Number

BID MUST BE SIGNED TO BE CONSIDERED

Bid Proposal

Board of Mayor and Aldermen
 c/o Purchasing Agent
 City of Kingsport
 Kingsport, Tennessee

Contractors:

The undersigned propose to construct the repairs for the **Fire Station Exhaust Extractors** for all fire stations and all work pertinent thereto, including any and all work and materials that may be necessary to connect the work with the adjoining work in a proper and workmanlike manner, and according to the plans and profiles on file in the Office of the City Engineer, and upon the terms and conditions of the "Legal Notice" heretofore published by the City of Kingsport, the plans, specifications and special provisions secured from the City Engineer of the City of Kingsport and the ordinances of the City and the direction of, and to the satisfaction of, the City Engineer, at the following rates to wit:

ITEM NO.	QUAN	UNIT	DESCRIPTION	UNIT COST	TOTAL COST
1	1.00	EA	Station 1 Exhaust Extractor Repair per specification	_____	_____
2	1.00	EA	Station 2 Exhaust Extractor Repair per specification	_____	_____
3	1.00	EA	Station 3 Exhaust Extractor Repair per specification	_____	_____
4	1.00	EA	Station 4 Exhaust Extractor Repair per specification	_____	_____
5	1.00	EA	Station 5 Exhaust Extractor Repair per specification	_____	_____
6	1.00	EA	Station 6 Exhaust Extractor Repair per specification	_____	_____
7	1.00	EA	Station 7 Exhaust Extractor Repair per specification	_____	_____
8	1.00	EA	Station 8 Exhaust Extractor Repair per specification	_____	_____
9	1.00	LS	Allowance (Additional Parts)	\$ 10,000.00	\$ 10,000.00
PROJECT TOTAL:				_____	_____
10	1.00	EA	Maintenance Agreement	_____	_____

ENGINEERING SPECIFICATION

FOR

CITY OF KINGSPORT

Repair Fume Exhausters for 8 Fire Stations

Exhauster Repair Specification



IFQ-05	12/13/19	Revised quote based on available parts	DEC	JR	
IFQ -04	7/23/19	Added duration as a quote requirement	DEC	JR	
IFQ-03	7/9/19	General Edit	DEC	JR	
IFQ-02	7/1/19	Issued for Quote without parts	DEC	JR	
IFQ-01	9/19/18	Issued for Quote	DEC	JR	
IFA-01	9/10/18	Issue for Approval	DEC	JR	
REV.	DATE	REASON FOR REVISION	BY	CHECK	PE



City of Kingsport
 Engineering Department
 130 Shelby Street
 Kingsport, TN

Holston Engineering JOB NO. #18-023

SPECIFICATION NO. REV.

18-023-001

IFQ-05

1.0 General

- 1.1 This specification covers the maintenance and repair of (8) eight existing Nederman exhaust removal systems in the (8) eight fire stations located within the city limits of Kingsport Tennessee. Contractor shall provide firm labor pricing for the repairs described in this specification. All Nederman specific parts will be provided by the city if Kingsport. Also, the City of Kingsport is interested in signing a maintenance agreement with supplier for long term care and maintenance of the Nederman exhaust systems. Pricing for this service will also be required as a part of this specification.
- 1.2 This specification is intended as specific instructions to be used by the Contractor for the repair of (8) eight fume exhaust systems with multiple pick up points on most systems. The intent of this specification is to set forth the requirements for a scope of repair for (8) Nederman fume exhaust systems. This specification shall be used in conjunction with industry codes, standards, and general acceptable practices. If the supplier wishes to quote options in addition to the requested base bid that will reduce cost or improve reliability the options will be considered. All options or exceptions to this specification must be specifically and clearly noted on all proposal documents to receive consideration.
- 1.3 All drawings, manuals, and correspondence shall be in English.
- 1.4 Unless a contractor's proposal takes exception to these bid documents conformance is implied and will be assumed. Alternate proposals are permitted. However, for Supplier's bid to be considered, the specific repairs shall be proposed as requested, together with any alternative proposal. All alternates and/or exceptions shall be clearly described and defined whenever the basic specification is not being met.
- 1.5 If additional parts for the Nederman systems are needed / discovered through the maintenance process both Dawn Melton of the city of Kingsport and Derwin Cartmel of Holston Engineering must be notified for ordering of the Nederman parts. Allow time for this communication in the proposal and understand that the parts deliveries will not be instantaneous.
- 1.6 All equipment associated with this specification shall be fabricated and assembled to the extent where it will minimize field erection.

2.0 Codes and Standards

- 2.1 All equipment, material, and labor furnished under this specification shall meet all of the requirements of the latest edition of the following applicable codes and standards and any Federal, State, City and Local Regulations having jurisdiction and be listed and labeled as such:

Controls:

NEC	National Electric Code
NEMA	National Electrical Manufacturer's Association
NFPA	National Fire Protection Association
OSHA	Occupational Safety and Health Administration (Including Lock-Out Tag-Out Compliance)
UL	Underwriters Laboratory

Mechanical Parts:

API	American Petroleum Institute
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
ASHRAE	American Society of Heating, Refrigeration, and Air Conditioning
AMCA	Air Movement and Control Association

OSHA
SMACNA

Occupational Safety and Health Administration
Sheet Metal and Air Conditioning Contractors' National Association

3.0 Repair items

- 3.1 Repair items will be broken down by station and bay. Bays will be designated by when facing the fire stations from the side where the main road is the bay to the left will be #1.
- 3.2 Contractor shall inventory items previously purchased by the city of Kingsport prior to the start of work. Contractor shall provide a list of items noting any missing items. List shall be provided to the city engineer.

STATION #1- General

1. Existing Cincinnati Fan HDBI is not providing enough flow and seems to not match the published fan curve. Fan will need to be replaced and motor horsepower will increase to 5 HP inverter duty rated motor. The electrical wire will have to be changed. Provide VFD and overload protection. The ductwork will need new transitions fabricated. Fan supports will require some modification. (Contractor will be provided Engineering Drawings will be provided for all the modifications above.) This will increase the air flow to Nederman standards (600 CFM per collector) or above and should help reduce the temperatures that the hoses see. Use Cincinnati fan HDBI 130 with a full HDBI fan for pricing.
2. Install balancing dampers in 3 ducts leading to the fume exhausters. (No dampers seen during investigation.) Contractor shall provide balancing dampers and any other materials required to install balancing dampers.
3. Balance flows to each fume exhauster station.
4. Install new Nederman control panel and receivers to control fan based on trucks starting or doors raising. City of Kingsport will provide control panel, receiver, and transmitters. Contractor shall provide disconnect at control panel if one does not currently exist. New receivers shall be mounted as recommended by Nederman. Contractor shall be responsible for miscellaneous materials to install the control panels, receivers, and disconnect switches.
5. City of Kingsport will provide and install transmitters in the fire trucks.
6. Contractor shall provide and install new door limit switches for 3 front bay doors on side opposite the fume exhaust system. Remove old limit switches. Door obstacle sensors to remain in place. Limit switch to activate fan on exhauster system. Contractor shall be responsible for miscellaneous items to install the switches such as wire and conduit in addition to the switches. Switches to be mounted on the doors on the opposite side as the exhaust extraction hoses.
7. Adjust retract springs on all bays to reduce the chances of a hose hitting the door sensors and to keep the hose from dragging the ground as it comes back into the bay after truck departure.

Station #1 – Bay 1

1. Repair magnet on Nederman hose so that magnet will hold hose on the puck mounted on the truck as intended. Contractor shall diagnose magnet issue and provide a list of required repair parts to the city of Kingsport for ordering. Contractor shall complete magnet repair once the parts have been received by the city of Kingsport.
2. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.

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3. Replace lower hose and boot as it is damaged. City of Kingsport will provide parts.

Station #1 – Bay 2

1. No magnetic retainer on the truck. Provide retainer puck to city for installation. Use guidance from Nederman for the location of the puck and style of the puck. City of Kingsport will provide puck.
2. Replace lower hose and boot as it is damaged. City of Kingsport will provide parts.
3. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.

Station #1 – Bay 3

1. Replace lower hose and boot as it is damaged. City of Kingsport will provide parts.
2. Replace middle hose as it is damaged. City of Kingsport will provide parts.
3. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.

Station #2 – Bay 1

No repair work required.

Station #2 – Bay 2

1. Replace lower hose and boot as it is damaged. City of Kingsport will provide parts.
2. Replace middle hose as it is damaged. City of Kingsport will provide parts.
3. Install new Nederman control panel and receiver to control fan based on trucks starting or doors raising. City of Kingsport will provide control panel, receiver, and transmitters. Contractor shall provide disconnect at control panel if one does not currently exist. New receivers shall be mounted per Nederman recommendations. Contractor shall be responsible for miscellaneous materials to install the control panels and disconnect switches.
4. City of Kingsport will provide and install transmitters in the fire trucks.
5. Repair magnet on Nederman hose so that magnet will hold hose on the puck mounted on the truck as intended. Contractor shall diagnose magnet issue and provide a list of required repair parts to the city of Kingsport for ordering. Contractor shall complete magnet repair once the parts have been received by the city of Kingsport.
6. Provide new door limit switches for 1 front bay door on side opposite the fume exhaust system. Remove old limit switches. Door obstacle sensors to remain in place. Limit switch to activate fan on exhaust system. Limit switch to be mounted on the door side opposite to the exhaust extraction hose.
7. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.
8. Repair fan leak at the discharge of the fan with duct sealant.
9. Adjust retract springs on bay to reduce the chances of a hose hitting the door sensors and to keep the hose from dragging the ground as it comes back into the bay after truck departure.

Station #3 – General

1. Install new Nederman control panel and receiver to control fan based on trucks starting or doors raising. City of Kingsport will provide control panel, receiver, and transmitters. Contractor shall provide disconnect at control panel if one does not currently exist. New receivers shall be mounted per Nederman recommendations. Contractor shall be responsible for miscellaneous materials to install the control panels and disconnect switches.
2. City of Kingsport will provide and install transmitters in the fire trucks.
3. Provide new door limit switches for 4 bay doors on side opposite the fume exhaust system. Remove old limit switches. Door obstacle sensors to remain in place. Limit switch to activate fan on exhauster system. Limit switch to be mounted on the door side opposite to the exhaust extraction hose.
4. Adjust retract springs on all bays to reduce the chances of a hose hitting the door sensors and to keep the hose from dragging the ground as it comes back into the bay after truck departure.
5. Install balancing dampers in 2 ducts leading to the fume exhausters. (No dampers seen during investigation.) Contractor shall provide balancing dampers and any other materials required to install balancing dampers.
6. Balance flows to each fume exhauster station.

Station #3 – Bay 1

1. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.
2. Rail travel is rough, and trolley is difficult to move. Trolley wheel or another component may be broken causing the difficulty. Disassemble and provide a list of required parts to the city of Kingsport. Reassemble with new parts from the city of Kingsport and verify operation.
3. Replace lower hose and boot as it is damaged. City of Kingsport will provide parts.

Station #3 – Bay 2

1. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.
2. Be aware that Fume exhauster in Bay 2 is different than Bay 1.
3. Magnet is very weak. Diagnose why the magnet is weak and provide a list of required repair parts to the city of Kingsport. Repair once the new parts arrive.
4. Replace lower hose and boot as it is damaged. City of Kingsport will provide parts.

Station #4 – Bay 1

No repair work required.

Station #4 – Bay 2

1. Install new Nederman control panel and receiver to control fan based on trucks starting or doors raising. City of Kingsport will provide control panel, receiver, and transmitters. Contractor shall provide disconnect at control panel if one does not currently exist. New receiver shall be mounted per Nederman recommendations. Contractor shall be responsible for miscellaneous materials to install the control panel, receiver, and disconnect switches.
2. City of Kingsport will provide and install transmitters in the fire trucks.
3. Provide new door limit switches for 2 bay doors on side opposite the fume exhaust system. Remove old limit switches. Door obstacle sensors to remain in place. Limit switch to activate fan on exhauster system. Limit switch to be mounted on the door side opposite to the exhaust extraction hose.
4. Adjust retract spring to reduce the chances of a hose hitting the door sensors and to keep the hose from dragging the ground as it comes back into the bay after truck departure.
5. Truck has split puck on door panel on truck. The magnetic attachment is not very strong and sometimes looses the exhaust collector. Diagnose why the magnet is weak and provide a list of required repair parts to the city of Kingsport. Repair once the new parts arrive.
6. Replace lower hose. City of Kingsport will provide parts
7. End cap is missing off collector rail. Fabricate new end cap and install.
8. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.

Station #5 – Bay 1

No repair work required.

Station #5 – Bay 2

1. Install new Nederman control panel and receiver to control fan based on trucks starting or doors raising. City of Kingsport will provide control panel, receiver, and transmitters. Contractor shall provide disconnect at control panel if one does not currently exist. New receiver shall be mounted per Nederman recommendations. Contractor shall be responsible for miscellaneous materials to install the control panel, receiver, and disconnect switches.
2. City of Kingsport will provide and install transmitters in the fire trucks.
3. Provide new door limit switches for bay door on side opposite the fume exhaust system. Remove old limit switches. Door obstacle sensors to remain in place. Limit switch to activate fan on exhauster system. Limit switch to be mounted on the door side opposite to the exhaust extraction hose.
4. Adjust retract spring to reduce the chances of a hose hitting the door sensors and to keep the hose from dragging the ground as it comes back into the bay after truck depart.
5. Replace lower hose.
6. Repair leaks in exhaust duct.

7. Currently the exhaust fan is running backwards. Change direction of motor. If fan still sounds bad replace the fan motor and verify flows to the exhaust collector. Contractor shall be responsible for motor and miscellaneous parts to install the motor if required.
8. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.

Station #6 – General

1. Install new Nederman control panel and receiver to control fan based on trucks starting or doors raising. City of Kingsport will provide control panel, receiver, and transmitters. Contractor shall provide disconnect at control panel if one does not currently exist. New receivers shall be mounted per Nederman recommendations. Contractor shall be responsible for miscellaneous materials to install the control panels and disconnect switches.
2. City of Kingsport will provide and install transmitters in the fire trucks / ambulance.
3. Provide new door limit switches for bay door on side opposite the fume exhaust system. Remove old limit switches. Door obstacle sensors to remain in place. Limit switch to activate fan on exhauster system. Limit switch to be mounted on the door side opposite to the exhaust extraction hose.
4. Adjust retract springs to reduce the chances of a hose hitting the door sensors and to keep the hose from dragging the ground as it comes back into the bay after truck depart.
5. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.
6. Verify fan rotation. Motor has been replaced and has the RPM of 2450 which is not correct. Replace motor with 3600 RPM motor to obtain 1200 CFM flow through the system. Expect 3 HP motor which may change breakers and wire size. Verify fan model number and curve for the fan as it exists before repairs and review with City Engineer.
7. Install balancing dampers in 2 ducts leading to the fume exhausters.

Station #6 – Bay 1

1. Replace lower hose.
2. Replace middle hose as it is damaged.
3. Repair magnet to provide secure connection to puck on ambulance.

Station #6 – Bay 2

1. Replace lower hose.

Station #7 – General

1. Install new Nederman control panel and receiver to control fan based on trucks starting or doors raising. City of Kingsport will provide control panel, receiver, and transmitters. Contractor shall provide disconnect at control panel if one does not currently exist. New receivers shall be mounted per Nederman recommendations. Contractor shall be responsible for miscellaneous materials to install the control panels and disconnect switches.

2. City of Kingsport will provide and install transmitters in the fire trucks.
3. Provide new door limit switches for bay doors at each end of the station on side opposite the fume exhaust system for Bays 1 and 3. Remove old limit switches if they exist. Door obstacle sensors to remain in place. Limit switch to activate fan on exhauster system.
4. Adjust retract springs to reduce the chances of a hose hitting the door sensors and to keep the hose from dragging the ground as it comes back into the bay after truck depart.
5. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.
6. Install balancing dampers in 2 ducts leading to the fume exhausters.

Station #7 – Bay 1

1. Replace lower hose and boot.
2. Magnet operation seems erratic. Troubleshoot and repair to eliminate erratic operation.

Station #7 – Bay 2

1. Move existing parts from the track down to use in Bay 3.

Station #7 – Bay 3

1. Mount parts from Bay 2 on existing Bay 3 track.
2. Provide magnet, retrieval pole hoses as required to make exhaust collector in Bay 3 functional for a top outlet exhaust on the bay 3 truck.

Station #8 – General

1. Install new Nederman control panel and receiver to control fan based on trucks starting or doors raising. City of Kingsport will provide control panel, receiver, and transmitters. Contractor shall provide disconnect at control panel if one does not currently exist. New receivers shall be mounted per Nederman recommendations. Contractor shall be responsible for miscellaneous materials to install the control panels and disconnect switches.
2. City of Kingsport will provide and install transmitters in the fire trucks.
3. Provide new door limit switches for bay doors at each end of the station on side opposite the fume exhaust system. Remove old limit switches if they exist. Door obstacle sensors to remain in place. Limit switch to activate fan on exhauster system.
4. Adjust retract springs to reduce the chances of a hose hitting the door sensors and to keep the hose from dragging the ground as it comes back into the bay after truck depart.
5. Nylon rope that attaches to the retract mechanism is not durable. City of Kingsport will provide new rope / cable.
6. Install balancing dampers in 2 ducts leading to the fume exhausters.

Station #8 – Bay 1

1. Return system operation is erratic. Troubleshoot and repair as needed to provide reliable operation.

2. Magnet operation is sporadic. Troubleshoot and repair as needed to provide reliable operation.

Station #8 – Bay 2

1. Return system operation is erratic. Troubleshoot and repair as needed to provide reliable operation.
2. Magnet operation is sporadic. Troubleshoot and repair as needed to provide reliable operation.

4.0 Electrical

- 4.1 All electrical work shall be completed by a licensed electrician and shall be installed strictly in accordance with NEC – 2017 (NFPA 70).
- 4.2 All electrical items shall be UL tested/listed.
- 4.3 Items that will need electrical work:
 - 4.3.1 New receiver installation
 - 4.3.2 New limit switch installation
 - 4.3.3 Electronic magnet change out/upgrade

5.0 Ancillary items

- 5.1 Contractor shall be responsible for providing any equipment necessary to complete the scope as listed in this specification such as but not limited to man-lifts, tools, safety equipment, etc.
- 5.2 If additional repair items are discovered during the execution of this scope the contractor shall make the City of Kingsport Engineering Project Manager and the Engineering firm aware of the additional scope. The city will provide direction before any additional work is completed.
- 5.3 Contractor shall work with the city of Kingsport for parts sourcing. Non-generic items will be Nederman Brand purchased by the city of Kingsport. All other items may be Nederman or substituted items equal to or better than the Nederman parts. All substitutions shall be submitted and approved by City of Kingsport Engineering Manager.
- 5.4 Contractor shall provide expected repair duration per station once all parts are in hand. Contractor shall minimize mobilization costs as much as possible. Contractor must take into consideration that the fire stations will be in operation during the repairs and the time spent at the stations must be minimized.

6.0 Testing

- 6.1 For each system that has new fans installed or balancing dampers installed a test and balance report shall be generated. Each exhaust collection point shall be flowing over 600 CFM. Station
- 6.2 Control panels / receivers shall have each function tested after installation and operation deficiencies repaired.

7.0 Pricing

- 7.1 Contractor shall provide a firm price for the labor for the scope of this specification. After contract award the successful contractor shall evaluate each station and provide a list of parts needed for each station. The city of Kingsport will provide Nederman repair parts needed and will order any parts not on hand.
- 7.2 Pricing shall be per fire station and a price broken out for a Maintenance Plan(7.3).
- 7.3 Contractors shall provide proposal for ongoing maintenance of these systems as an option to the base bid. The maintenance proposal shall include rates and maintenance frequency. Rates shall be included for service calls outside of the maintenance plan.

8.0 Time

- 8.1 Estimated time for project scope is three to four weeks. Each Station's scope is estimated at less than a weeks labor. Due to lead time on Nederman parts and erratic schedules at individual Fire Stations, Installation can take place over a 90 Day period. Excessive lead time on Nederman Parts ordered by the City of Kingsport will not negatively impact the contract time and will be granted extension.

-END OF SPECIFICATION-

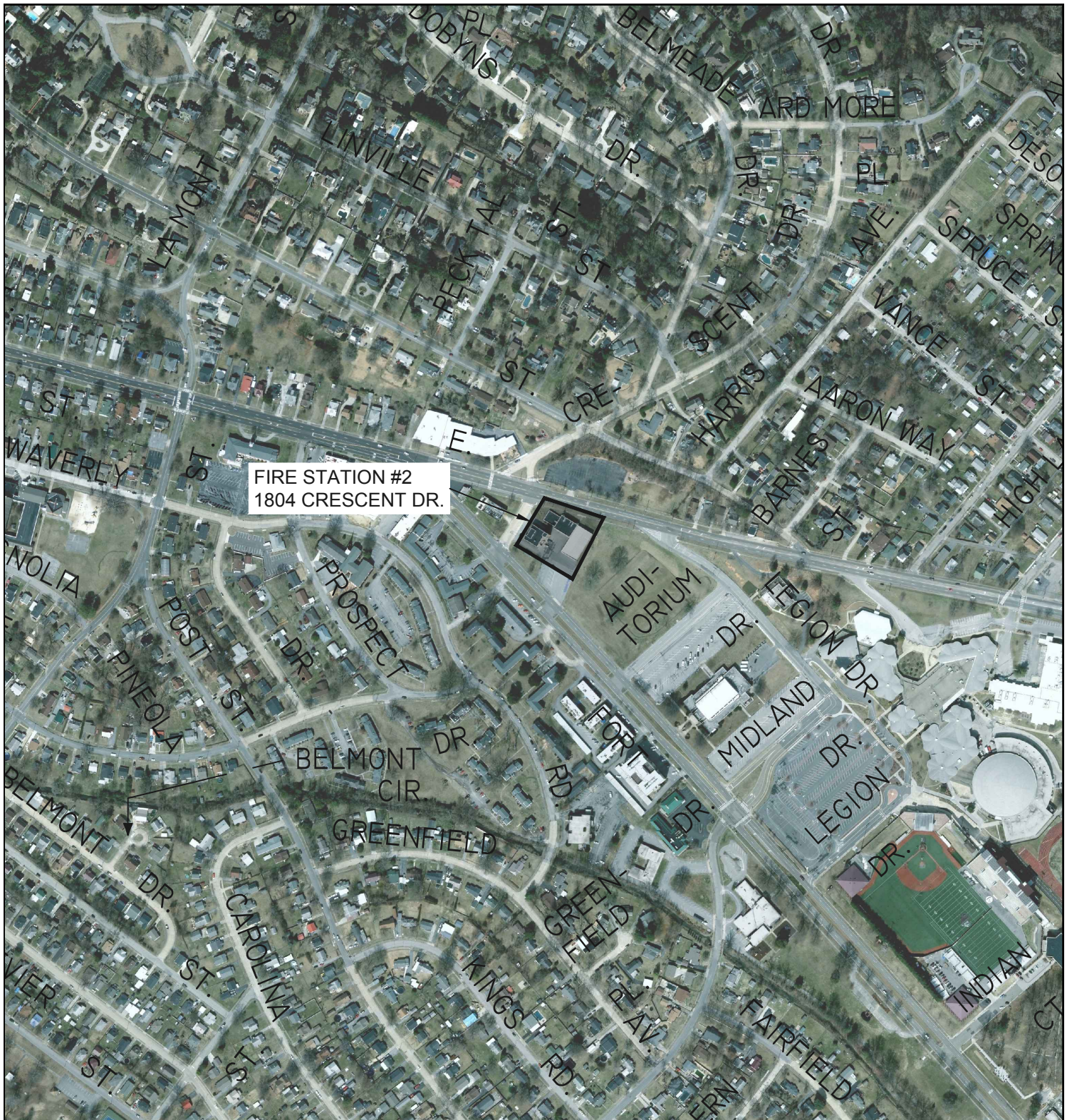


FIRE STATION #1
130 ISLAND ST.



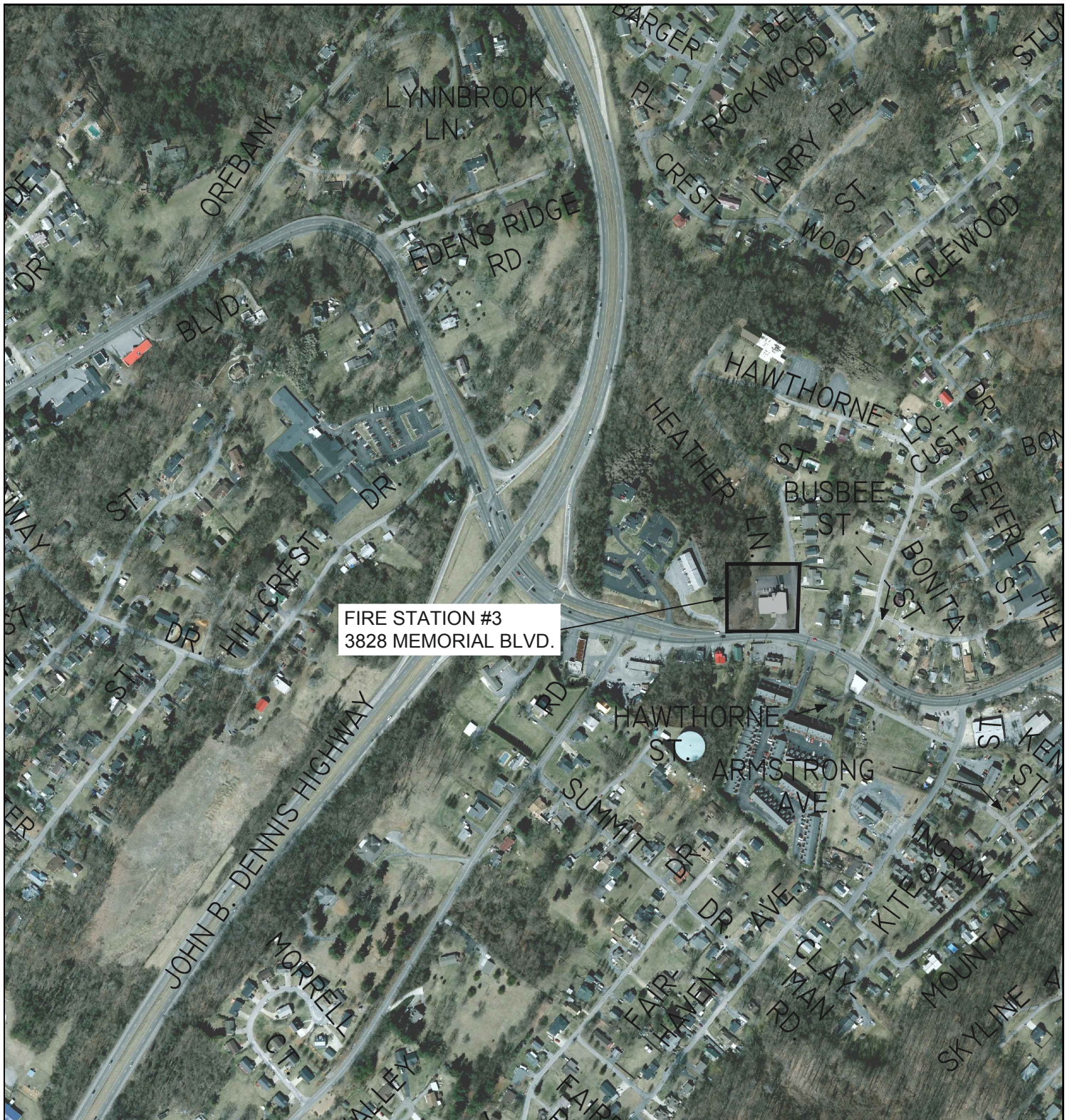
FIRE STATION EXHAUST
REPAIRS/MAINTENANCE

FIRE STATION #1 LOCATION MAP



**FIRE STATION EXHAUST
REPAIRS/MAINTENANCE**

FIRE STATION #2 LOCATION MAP



FIRE STATION #3
3828 MEMORIAL BLVD.



**FIRE STATION EXHAUST
REPAIRS/MAINTENANCE**

FIRE STATION #3 LOCATION MAP



FIRE STATION #4
2195 W. STONE DR.



**FIRE STATION EXHAUST
REPAIRS/MAINTENANCE**

FIRE STATION #4 LOCATION MAP

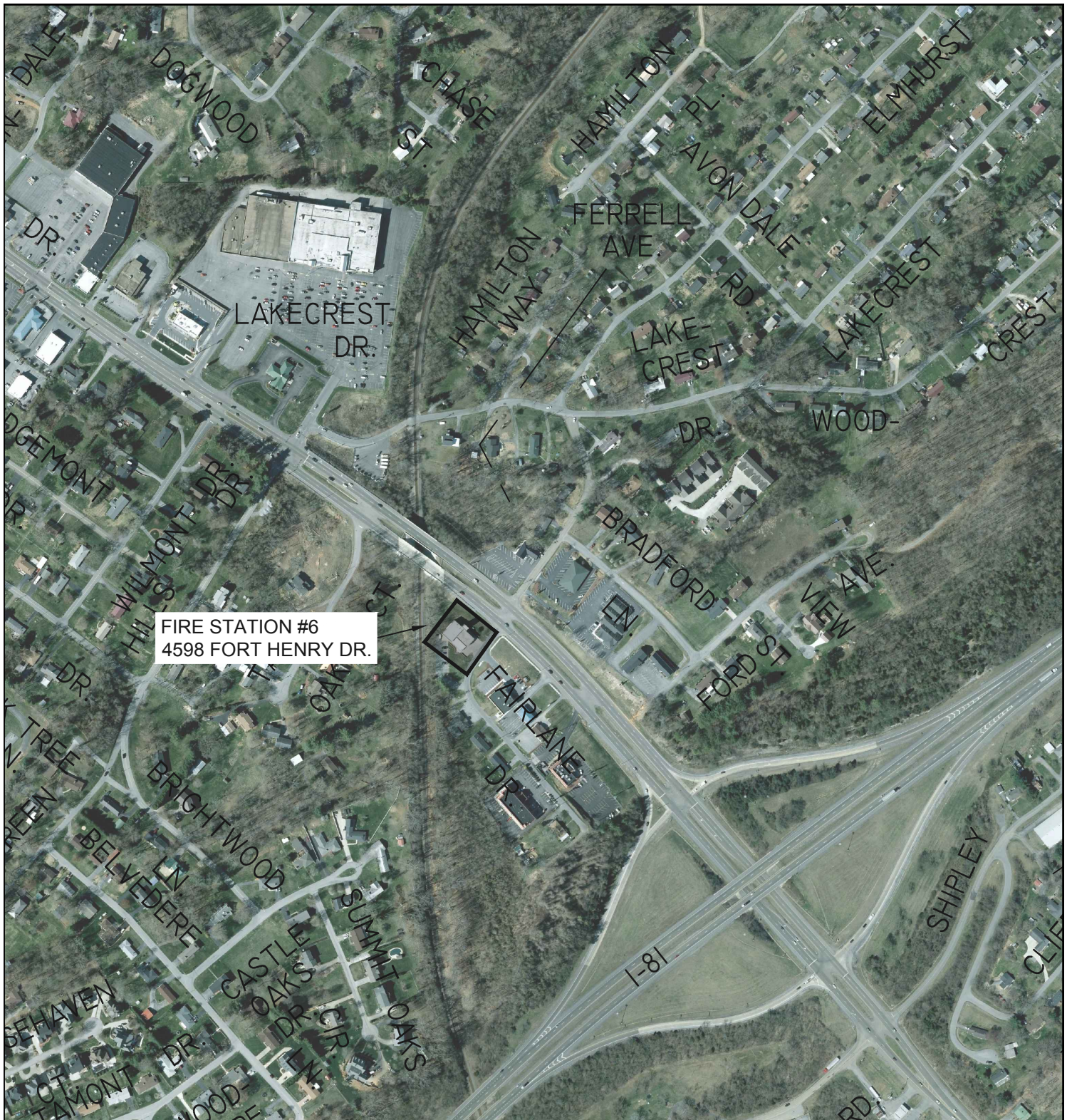


FIRE STATION #5
1517 LYNN GARDEN DR



**FIRE STATION EXHAUST
REPAIRS/MAINTENANCE**

FIRE STATION #5 LOCATION MAP



FIRE STATION #6
4598 FORT HENRY DR.



**FIRE STATION EXHAUST
REPAIRS/MAINTENANCE**

FIRE STATION #6 LOCATION MAP



FIRE STATION #7
1440 ROCK SPRINGS RD.



**FIRE STATION EXHAUST
REPAIRS/MAINTENANCE**

FIRE STATION #7 LOCATION MAP



**FIRE STATION EXHAUST
REPAIRS/MAINTENANCE**

FIRE STATION #8 LOCATION MAP

BID ENVELOPE COVER

THIS FORM IS TO BE FIRMLY ATTACHED TO THE OUTSIDE OF THE ENVELOPE CONTAINING THE BID

PART 1

ALL BIDDERS MUST COMPLETE THIS SECTION

Project Name: _____

Project Opening Date & Time: _____

Contractor's Name: _____

Contractor's Address: _____

Contractor's License Number: _____

Contractor's License Expiration Date: _____

Contractor's License Classification: _____

PART 2 - SUBCONTRACTORS

ALL BIDDERS MUST COMPLETE THIS SECTION. IF SUBCONTRACTOR'S BID AMOUNT IS MORE THAN \$25,000 FOR (1) ELECTRICAL, (2) PLUMBING, (3) HEATING, VENTILATION, AIR CONDITIONING, (4) GEOTHERMAL OR \$100,000 OR MORE FOR (5) MASONRY. IF THAT PORTION OF THE BID IS LESS THAN \$25,000 FOR ELECTRICAL, PLUMBING, HVAC OR GEOTHERMAL ENTER "NONE" IN THE NAME SPACE FOR THOSE CATEGORIES BELOW. IF THAT PORTION OF THE BID IS LESS THAN \$100,000 FOR MASONRY ENTER "NONE" IN THE NAME SPACE FOR THAT CATEGORY BELOW.

1) *Electrical*

Name: _____

License Number: _____

License Expiration Date: _____

Classification: _____

4) *Geothermal*

Name: _____

License Number: _____

License Expiration Date: _____

Classification: _____

2) *Plumbing*

Name: _____

License Number: _____

License Expiration Date: _____

Classification: _____

5) *Masonry*

Name: _____

License Number: _____

License Expiration Date: _____

Classification: _____

3) *HVAC*

Name: _____

License Number: _____

License Expiration Date: _____

Classification: _____