



Cattaraugus County Land Bank Corporation
303 Court Street, Little Valley, NY 14755
(716)938-2320
www.CattLandBank.org

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**Request for Proposals for
General Contractor Full Renovation Services -316 N 9th Street, Olean
Date Issued: August 19, 2020
Walk Through: By Appointment ONLY
Request for Information Due: August 28, 2020
RFP Due: September 11, 2020 at 2PM**

BACKGROUND INFORMATION

The Cattaraugus County Land Bank Corp. ("Land Bank") mission is to facilitate the process of acquiring, improving and redistributing properties to eliminate the harms and liabilities caused by such properties and return them to productive use, while being consistent with the municipality's redevelopment and comprehensive plans. The Land Bank owns a variety of properties including both vacant and improved lot. The Land Bank is working to renovate some of its properties for sale to responsible property owners.

The Land Bank is currently looking for bids to renovate the following property:

316 N 9th Street, Olean

PROPOSAL SUBMISSION

Proposals must be received by email or mail to the Cattaraugus County Land Bank Corp:
Cattaraugus County Land Bank

Kate O'Stricker
303 Court Street
Little Valley, NY 14755
kmostricker@cattco.org

Note: Submissions must be submitted and received by the date and time listed in the header of this RFP. The Land Bank will not be responsible for any expenses incurred by any firm or person in preparing or submitting a proposal.

All requests for information/clarification will be due by the RFI date listed in the header of this RFP. Requests should be made in writing by email to kmostricker@cattco.org and all responses will be shared with prospective bidders upon request.

AWARD OF BID:

The contract will be awarded to the vendor submitting the lowest responsive/responsible bid as indicated on the bid form and that meets with all other terms and specifications.

Insurance Requirements

Insurance (for Grantee Subrecipient and Subcontractors, as applicable)

Certificate of Insurance (ACORD 25) evidencing **Grantee's/ Subrecipient's Commercial General Liability Insurance** in amounts not less than:

- \$1,000,000 per occurrence/ per location or per project aggregate (for more than one loc), \$2,000,000 in the annual aggregate,

- \$2,000,000 products/completed operations aggregate

1. Naming ENTERPRISE COMMUNITY PARTNERS, INC. as an Additional Insured;
2. Deductible should be no more than \$5,000.
3. Must include list of exclusions
4. No warranties
5. Endorsements should include
 - a. Additional Insured including premises operations and Product/Completed Operations
 - b. Waiver of Subrogation
 - c. 30-day notice of cancellation

Certificate of Insurance (ACORD 25) evidencing **Grantee's/ Subrecipient' s/Subcontractor's Worker's Compensation Insurance** (in amounts consistent with state statutory requirements), and naming ENTERPRISE COMMUNITY PARTNERS, INC. as Certificate Holder. Named Insured must be Grantee's full legal name.

Certificate of Insurance (ACORD 25) evidencing **Grantee's/ Subrecipient' s/Subcontractor's Auto Insurance**

- in amount not less than \$1,000,000, for all owned, non-owned and hired automobiles. If no owned autos, coverage may be extended from the CGL policy.
- Waiver of Subrogation
- 30 day notice of cancellation endorsement
- naming ENTERPRISE COMMUNITY PARTNERS, INC. as an Additional Insured with Primary Non-Contributory language.

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REQUIREMENTS FOR ALL INSURANCE:

- Carrier must be rated "A-" or higher in the AM Best Guide with a Financial Size Category of at least VI,
- Named Insured must be Grantee's full legal name,
- Policy must be current, not expired, and include all endorsements
- Certificate must be signed by an authorized representative of the insurance carrier,

- Additional Insured/ Certificate holder/ (as required below) must appear as:

ENTERPRISE COMMUNITY PARTNERS, INC.

70 Corporate Center

11000 Broken Land Parkway, Suite 700

Columbia, MD 21044

AND

Cattaraugus County Land Bank Corp.

303 Court Street

Little Valley NY 14755

INDEMNIFICATION

The successful contractor shall defend, indemnify and save harmless the Land Bank, its employees and agents, from and against all claims, damages, losses and expenses (including, without limitation, reasonable attorneys' fees) arising out of, or in consequence of, any negligent or intentional act or omission of the successful contractor, its employees or agents, to the extent of its or their responsibility for such claims, damages, losses and expenses.

NON-COLLUSIVE CERTIFICATION

By submission of this RFP, each contractor and each person signing on behalf of any contractor certifies, and in the case of a joint proposal each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his knowledge and belief:

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

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

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

AFFIRMATIVE ACTION

As required by Executive Law § 312 any contractor awarded a procurement contract in excess of \$25,000 for services rendered to the Land Bank must acknowledge this affirmative action policy and agree to implement the same by making every reasonable effort to award any subcontracts (none of hereby authorized) to MBEs and WBEs and to utilize minority and labor in the performance of any agreement that is awarded to the contractor. Specifically, any contractor awarded a contract in excess of \$25,000 dollars will be expected to abide by the following provisions:

1. The contractor will not discriminate against employees or applicants for employment because of race, creed, color, national origin, sex, age, disability or marital status, and will undertake or continue existing programs of affirmative action to ensure that minority group members and women are afforded equal employment opportunities without discrimination. For purposes of this section, affirmative action shall mean recruitment, employment, job assignment, promotion, upgradings, demotion, transfer, layoff, or termination and rates of pay or other forms of compensation.

2. At the request of the contracting agency, the contractor shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, labor union or representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of the contractor's obligations herein.

3. The contractor shall state, in all solicitations or advertisements for employees, that, in the performance of the MWBE Threshold Contract, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status

NON-DISCRIMINATION POLICY

In accordance with Article 15 of N.Y. Executive Law (also known as the Human Rights Law) and all other State and Federal statutory and constitutional non-discrimination provisions, the Contractor agrees that neither it nor any of its subcontractors shall, by reason of age, race, creed, color, national origin, sexual orientation, military status, sex, disability, predisposing genetic characteristics or marital status refuse to hire or employ or to bar or to discharge from employment such individual or to discriminate against such individual in compensation or in terms, conditions or privileges of employment.

PROPOSAL REQUIREMENTS

- 1) Responses should list the cost of the full renovation in Lump Sum (LS) cost and per project breakdown. Payments will not exceed these amounts regardless of the actual costs incurred in completing the services. The Land Bank reserves the right to accept all, a portion of or none of the work bid, however, it is the preference of the Land Bank to have one contractor complete the entire job.
- 2) The Respondent should address the following information: (a) business address, phone number, fax number, e-mail address, and Federal ID number for contractors and all sub-contractors; (b) a brief description of the firm's history and experience in providing services covered by this RFP; and (c) describe other projects involving similar works (including name of clients served, and length of time providing such services).
- 3) Proposer shall provide a description and past experience of their firm, and subcontractors with regard to structure rehabilitation, and asbestos abatement work. Contractor shall also provide references including governmental agencies (if applicable) where similar work has been performed over the past five years.
- 4) Resumes describing the qualifications and background of the primary contact person and other key staff who will be assigned to projects covered by this RFP. If Respondent intends to use the services of a subcontractor, provide resumes for each subcontractor. Descriptions of how the primary contact person and other key personnel meet the general qualifications described and the Scope of Services shall be provided. Please note that the individuals listed will be expected to be available should the Corporation request to conduct interviews. Such resumes should describe relevant training and experience as it relates to the Scope of Services.
- 5) Provide a list of three to five relevant client references, including a contact person's name, address and phone number.
- 6) Prepare a project schedule to be included as part of the proposal. Schedule should include a begin work date, and final completion date.
- 7) The successful firm shall be responsible for all expenses related to the rehabilitation, demolition, removal of debris, infill of voided space, and the safe work environment of the property.
- 8) Consultant must make a good faith effort to meet New York State's minority and women-owned business ("M/WBE") participation goals, in effect and as amended from time to time.

9) Please include proof of insurances.

10) One Copy should be included in the sealed envelope not to exceed 10 pages.

GENERAL INFORMATION

METHOD OF AWARD:

The contract will be awarded to the vendor submitting the lowest responsive/responsible bid that meets all of the terms and specifications.

GUARANTEE:

The vendor guarantees that all goods and services provided are of high quality, all equipment used is properly maintained and inspected and all employees conduct themselves in a courteous and professional manner.

AWARD OF BID:

The contract will be awarded to the vendor submitting the lowest responsive/responsible bid as indicated on the bid form and that meets with all other terms and specifications.

INSURANCE:

Each bid shall include evidence that the vendor currently carries an insurance policy that meets all New York State requirements for this type of service as well as all Cattaraugus County Land Bank requirements as listed in this bid. All vendors awarded a contract agree to keep said insurance in force for the duration of the contract

SCOPE OF WORK

To make certain that workers, residents, and the general public are not exposed to asbestos or Lead Based Paint as a result of modernization/renovation or demolition work at this site, an Asbestos and Lead Based Paint Assessment was completed. (Attachment A and Attachment B). It is the obligation and responsibility of the awarded bidder to perform the scope of work using EPA's lead safe work practices and specific procedures for renovating, repairing, and abating buildings when ACMs are disturbed. It is the contractor's responsibility to find out which applicable Federal, State and local law will apply to their situation and the ACMs in the building while under renovation. The actions taken will need to be determined depending upon the condition of the asbestos, obligations and responsibilities under the law.

1) EXTERIOR

a. Roof (to include porch and back steps covering)

- Remove three (3) layers of existing shingles. [Two layers of asphalt and one layer of cedar shake]
- Refasten existing sheathing.
- Install new 1/2in plywood sheathing to entire roof over existing sheathing.
- Properly install drip edge and ice shield.
- Install new asphalt, three-tab shingles with a 40 year rating.
- Install flashing to all roof vents and chimney.
- Install soffits and fascia to entire home, including porch and back steps covering.
- Replace chip board portions of back steps overhead covering with painted plywood.
- Install aluminum gutters and downspouts with extensions that displace rain water at least six feet from base of the home.
- Install attic vents (ridge vents, soffit vents, and baffle)

b. Front Porch/ Back Steps

- Replace steps (treads and stringers) leading up to front door with pressure treated lumber.
- Replace steps (treads and stringers) leading to rear door with pressure treated lumber.
- Install and/or secure and align handrails on either side of steps.
- Replace front porch with new decking boards.
- Replace posts and railing around front porch with similar design, materials, and to proper code specifications.
- Install and paint new skirting to entire front porch.
- Install new wall mounted mail box.
- Replace house numbers "316" to original location.
- Replace front and rear door with a properly rated steel door with new knob and dead bolt (keyed alike). Fill any gaps with door sweep or weather stripping.
- Install new storm doors to front and rear doors.

- Install new thresholds to front and rear doorways.

c. Exterior Siding/Trim

- Patch and seal missing siding on rear of structure.
- Seal around all windows, doors, gable vent, electric meter, etc.
- Pressure wash and paint all aluminum siding.

d. Windows

- Replace octagonal window in rear of home with a like product that has the ability to open.
- Replace five (5) windows on south side of home. (one window is boarded)
- Replace five (5) of the seven (7) windows on the south side of the home with insulated replacement windows.
- Replace two (2) upstairs windows on front of the home and one (1) window on first floor of the home with insulated replacement windows.
- Replace basement windows at grade; removing earth and debris if it has built up above bottom of basement window.
- Scrape, primer, paint and seal all windows frames and sills in home.
- Install screens on all windows in home that open.

e. Grounds

- Clear a six feet perimeter around the home of all debris and vegetation.
- Remove all fallen portions of tree from back yard
- Rake and remove all refuse, leaves, sticks etc. from back yard.
- Fill in any low spots on property where standing water may collect.
- Remove Willow tree in the back yard

2) INTERIOR

a. First floor center room

- Secure drywall on sealing, finish joints, primer and paint.
- Patch walls, primer and paint
- Sand, primer and paint base boards, door frames, and window frames.
- Replace heat register vent cover.

- Remove thin horizontally run board on stairway.
- Install a column between existing stairway columns to match.
- Install domed ceiling light with one switch by front door, one switch at bottom of stairs and one switch at kitchen door.
- Remove existing subfloor and replace.
- Install vinyl plank flooring to match front room and kitchen.
- Install thresholds to kitchen and front room.

b. Front Room

- Remove all paneling from walls
- Install proper insulation on walls
- Install ½ inch drywall to walls.
- Finish walls, primer and paint
- Finish ceiling, primer and paint
- Install low profile dome light to ceiling with switch at bottom of stairs and at front door.
- Remove existing subfloor and replace.
- Install vinyl plank flooring to match center room and kitchen.
- Sand, primer and paint window sills and frames.
- Replace heating vent cover.

c. Kitchen

- Remove existing ceiling.
- Repair water damaged framing and/or joists.
- Install ½ inch drywall to ceiling.
- Finish, primer and paint ceiling
- Replace ceiling light with a switch at back door and door center room.
- Sand, primer and paint door frames, window frames and sills.
- Remove all hangers, cupboards, counters, shelves, etc from walls.
- Remove and estimated 50% of drywall and 100% of brick façade from walls.
- Replace drywall with ½ inch drywall.
- Finish, primer and paint all walls.
- Install new laminate countertops to match existing measurements.
- Install new sink with all hardware, shut offs, PEX piping to faucet and drain pipes with trap.
- Install two door base cabinet below sink.
- Install three drawer base next to sink base cabinets.
- Install two additional base cabinets under counter tops.
- Install wall cabinets to match current scheme.
- Remove existing subfloor and replace.
- Install plank vinyl flooring to match center room and front room.

- Replace gas shut off and flex line to cooking range.
- Install venting for cooking range exhaust fan.

d. Stairs and Hallway

- Carpet stairs and upstairs hallway to match bedrooms.
- Install thresholds in all upstairs doorways.
- Sand, primer, and paint all base boards, railings, door frames, window frames and sills on stairway and hallway.
- Replace metal post and railing with wooden post and 36 inch high rail with no gap in the knee wall.
- Paint and primer all stairway and hallways walls and ceiling.

e. Upstairs Bathroom

- Remove all: walls, ceilings, fiberglass tub/shower, sink and basin, toilet, vanity, light fixtures, shelving, toilet paper holder, towel bar, etc.
- Replace plumbing water service and drainage to tub/shower and sink basin with shut offs for each.
- Replace shut offs and water lines to toilet.
- Install new toilet, sink and basin, fiberglass tub/shower w/ faucet sets, vanity, toilet paper holder, towel bar, and shelving.
- Install new bathroom door with hardware.
- Apply masonry waterproof sealant to exposed chimney in bathroom.
- Install moisture resistant drywall, or "green board", to all walls and ceiling.
- Finish, primer, and paint walls and ceiling.
- Install shower rod and curtain.
- Install vanity lighting.
- Install ceiling exhaust fan with light.
- Remove existing subfloor and replace.
- Cover subfloor with waterproof membrane that meets ANSI A118.10 standards.
- Install vinyl plank flooring and caulk floor around edges.

f. Bedroom #1 (closest to bathroom)

- Patch all damage to wall and ceiling plaster.
- Finish, primer and paint walls and ceiling, baseboard, door frame, window frames and sills.
- Install new ceiling light.
- Install a new door with hardware.
- Install carpet to match hallway and stairs.
- Caulk and seal any gaps around window.

g. Bedroom #2 (middle bedroom)

- Patch all damage to wall and ceiling plaster.
- Finish, primer and paint walls and ceiling, baseboard, door frame, window frames and sills.
- Install new ceiling light.
- Install a new door with hardware.
- Install carpet to match hallway and stairs.
- Caulk and seal any gaps around window.
- Place an OSHA 1910.66/ OSHA 1926.503 compliant rescue ladder in room.

h. Bedroom #3 (furthest from bathroom)

- Patch all damage to wall and ceiling plaster.
- Finish, primer and paint walls and ceiling, baseboard, door frame, window frames and sills.
- Install new ceiling light.
- Install a new door with hardware.
- Install carpet to match hallway and stairs.
- Caulk and seal any gaps around window.

3) BASEMENT

- Clean all evidence of mold and treat with biocide where appropriate.
- Apply waterproofing sealer to foundation walls.
- Remove any cabinets, shelving, and refuse from basement.
- Replace basement stairwell and handrails.
- Repair damaged floor framing, beams, and joists.
- Jack floor level and install 3 to 4 single-piece permanent posts, eliminating existing insufficient posts.
- Caulk and seal any gaps in foundation and around window and door frames.

4) ELECTRIC SERVICE

- Caulk and seal main electric service line where it enters exterior of home.
- Caulk and seal main electric service line where it enters basement from inside.
- Remove existing panel box and replace with new 100 amp service with breakers.
- Install new lines to all rooms of home, as well as porches and back entrance.
- Replace all ungrounded receptacles with grounded receptacles.
- Replace 220v dryer receptacle in basement.
- Replace receptacles by kitchen sink, bathroom sink, and laundry area with GFI grounded receptacles.
- Install exterior lighting on front porch and back stairs.
- Replace all damaged switches and covers.
- Ensure service line is properly connected from aerial line to home.

5) PLUMBING

- Mount water meter so to stabilize it and keep it from hanging free.
- Install a shut off to main water line.
- Replace PVC main water line with PEX water line, stabilizing and securing all pipes with straps or brackets.
- Replace all galvanized, copper, and PVC water pipe in basement with PEX line with shut offs installed separately for laundry, bathroom and kitchen water lines. [Only lines in basement and not pipes going from basement to first and second floors.
- Replace basement laundry water service water lines and drainage pipe, to include proper traps and cleanouts.
- Install natural gas, energy efficient, 40 gallon hot water tank with shut off, proper ventilation, and on blocks or bricks at least 6 inches off basement floor.
- Install proper laundry dryer vent pipes in basement.
- Install a new natural gas, energy efficient forced air furnace with new duct work in basement, but keeping duct work from basement to first and second floors.
- Clean forced air duct work from basement to all vents on first and second floors.
- Connect water service and perform a pressure test.
- Connect all gas connections and perform pressure and flow tests.
- Replace outdoor hose spigot.

Contractor Bid Proposal

Property Address: 316 North 9th St Olean

Contractor		Phone	
Address		Email	
Expected Start Date		# of Days to complete Project	

The Cattaraugus County Land Bank is accepting proposals for the rehabilitation of a Land Bank property. Using the attached specification, please submit a proposal for all line items listed. You will not be required to complete work within the amounts listed separately in the columns, but as a total of both labor and materials.

Line Item Description	Materials	Labor	Total
TOTAL Project Cost			

NON COLLUSIVE BIDDING CERTIFICATION: *The bidder certifies under penalty of perjury that:*

- a) *The proposal has been arrived at by the bidder independently and has been submitted without collusion with any other vendor of materials, supplies or equipment of the type described in the specifications and;*
- b) *The bidder has not colluded with client to exchange money or goods in return for client choosing contractor over other bidders whether initiated by bidder or client.*

_____ Date _____
Contractor/Estimator Signature

_____ Date _____
CCLBC Board Chairman

316 N. 9th Olean

2. Executive Summary

The scope of services included the identification of suspect asbestos containing building materials in preparation for building demolition sampling and analysis of the suspect materials; and approximate quantity of confirmed asbestos containing materials.

The inspection was conducted on July 9, 2020 and revealed the following materials as suspected of containing asbestos:

HAN	Description
101	Drywall
101A	Joint Compound
101B	Skim Coat on Drywall
200	Ceiling Tile
301	Linoleum - Wood Grain Pattern
302	12" X 12" Peel and Stick Floor Tile
303	Wall Panel Mastic
304	12" X 12" Peel and Stick Floor Tile
500	Duct Wrap
600	Blown in Insulation
601	Sink Undercoat
602	Wire Insulation
603	Loose Fill Vermiculite
604	Vapor Barrier Behind Siding
605	Window Glazing
700	Roof Shingle - Upper Layer
701	Roof Vapor Barrier
702	Roof Shingle - Lower
704	Roof Patching Tar

2. Executive Summary (Continued)

Bulk sampling and laboratory analysis of the suspect asbestos containing materials by the Polarized Light Microscopy (PLM) and, where necessary, Transmission Electron Microscopy (TEM) methods, revealed the following materials as asbestos containing building materials (ACBM):

HAN	Material Description and Approximate Location	Friability / Condition NOTE 1	Approximate Quantity
500	Duct Wrap – Located on all Interstitial Duct Risers and at Duct Seams in Basement	F / I	120 sq ft
600	Blown in Insulation – Mixed in with HAN 603 Loose-Fill Vermiculite in the Attic – Note 3	F / I	Included in HAN 603
601	Sink Undercoat – Located in Kitchen – Note 2	NF / I	< 10 sq ft
602	Wire Insulation – Located in Basement and 2 nd Floor Hallway -Note 2	NF / I	< 25 in ft
603	Loose Fill Vermiculite – Located Throughout Attic -Note 4	F / I	500 sq ft
704	Roof Patching Tar – Located on Roof at Patches, Seams and Perimeter of Chimney – Note 2	NF / I	< 10 sq ft

Note 1: Friability/Condition:
 F=Friable: a material that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure, or is capable of being released into the air by hand pressure.
 NF=Non Friable: a material that when dry cannot be crumbled, pulverized, or reduced to hand pressure, and is not capable of being released into the air by hand pressure.
 I=Intact: Asbestos material that has not crumbled, been pulverized, or otherwise been damaged or disturbed, and the material's matrix has not noticeably deteriorated.
 D=Damaged: Asbestos material that has deteriorated or sustained physical injury demonstrated by separation of the ACM into layers, separation of the ACM from the substrate, flaking, blistering, crumbling, water damage, scrapes, gouges, or other signs of physical injury.
 SD=Significantly Damaged: Damaged asbestos where the damage is extensive and severe.

Note 2: This material was assumed to contain asbestos based on Stohl Environmental's experience on similar projects or because the material was adhered to another asbestos containing material (or adjacent to other materials needing abatement) and must be managed as such.

Note 3: This material was determined to not contain asbestos by laboratory analysis. However, in the attic it was found to be mixed in with HAN 603 Loose-Fill Vermiculite and, therefore, must also be handled, removed, and disposed of as asbestos.

Note 4: This material must be assumed to contain asbestos due to NYSDOH guidance letter dated 7/09/13 which states "Attic fill, block fill or other loose bulk Vermiculite materials must be designated and treated as ACM..."

2.2 Methodology

Stohl Environmental used a Viken Pb200i Spectrum Analyzer to test suspect painted surfaces on the exterior and interior. Progression through the exterior and interior followed a clockwise direction around the floor plan. Each component tested is identified by its particular side of the building, labeled walls "A, B, C, or D". Side A of any room is always the same side as the front exterior entrance (or address side of the building). Side B is the side to the left of side A, and so on.

Representative surfaces/components were tested in a manner designed to adequately represent the different components, substrates, types of paint, construction and paint history throughout the building. Surfaces tested included interior walls, doors, structural members, windows and painted exterior components.

2.3 Inspection Report

During the lead-based paint inspection conducted on July 15, 2020 both the interior and exterior painted components of the site were inspected. Painted components were identified and tested based on component groups and paint history.

The XRF analysis indicated that the following painted surfaces have a lead content at greater than the Title X threshold (greater than 1.0 mg/cm²) for classification as lead-based paint. For any renovations undertaken that require demolition of these painted surfaces, contractors should be advised of the presence of lead, and required to comply with the aforementioned OSHA regulations for construction worker safety.

Component groups that were identified to contain LBP are:

- All Interior painted window components (casing, sill and sash)
- All painted baseboards
- All original painted door components (casing, jamb and stop)
- All stair components for both the basement stairs and 1st floor stairs (stringer, riser and tread)
- All painted basement windows
- All closet door components in bedrooms (casing, jamb and stop)
- All components associated with the front porch (floor, ceiling, railing and header beam)
- Original wood siding behind newer vinyl siding
- Building Fascia
- All original exterior wood window components – some windows have had original wood casings and sills covered with aluminum along with having vinyl sash replacements

(SEE THE TABLE IN SECTION 2.4 FOR XRF ANALYSIS OF INDIVIDUAL COMPONENTS/SUBSTRATES)

2.4 XRF Analysis of Individual Components

Reading No	Side	Room	Component	Substrate	Color	Results	XRF Reading	
1	B	Calibration						1
2	B	Calibration						1
3	B	Calibration						1.1
4	B	Calibration						1.1
5	A	Living Room	Window Sash	Wood	White	Negative	-0.1	
6	B	Living Room	Window Sash	Wood	White	Positive	5.6	
7	B	Living Room	Window Casing	Wood	White	Positive	7.5	
8	B	Living Room	Window Sill	Wood	White	Positive	9.2	
9	D	Living Room	Wall	Drywall	White	Negative	0	
10	C	Living Room	Wall	Drywall	White	Negative	-0.3	
11	D	Living Room	Baseboard	Wood	Brown	Positive	7	
12	A	Dining Room	Door Casing	Wood	Brown	Negative	-0.1	
13	A	Dining Room	Door Jamb	Wood	White	Negative	-0.2	
14	A	Dining Room	Door Stop	Wood	White	Negative	0	
15	C	Dining Room	Door Stop	Wood	White	Positive	6.3	
16	C	Dining Room	Door Jamb	Wood	White	Positive	3.7	
17	C	Dining Room	Door Stop	Wood	White	Positive	2.5	
18	B	Dining Room	Stair Riser	Wood	White	Positive	1	
19	B	Dining Room	Stair Stringer	Wood	White	Positive	1.3	
20	B	Dining Room	Stair Tread	Wood	Blue	Negative	0.1	
21	B	Dining Room	Stair Tread	Wood	Blue	Negative	0.3	
22	A	Dining Room	Wall	Drywall	Pink	Negative	0.4	
23	A	Dining Room	Wall	Drywall	Pink	Negative	0.2	
24	B	Dining Room	Wall	Drywall	Pink	Negative	0.1	
25	C	Kitchen	Wall	Drywall	Blue	Negative	0.2	
26	D	Kitchen	Wall	Drywall	Blue	Negative	0.1	
27	D	Kitchen	Ceiling	Wood	Blue	Negative	0.1	
28	D	Kitchen	Ceiling	Wood	White	Negative	-0.2	
29	D	Kitchen	Header Beam	Wood	White	Negative	0	
30	C	Kitchen	Door Casing	Wood	White	Negative	0	
31	C	Kitchen	Door	Wood	White	Negative	0	
32	B	basement stairs	Wall	Wood	White	Negative	0.2	
33	B	basement stairs	Stair Stringer	Wood	White	Positive	15.1	
34	B	Basement	Window Casing	Wood	White	Positive	1.6	

Reading No	Side	Room	Component	Substrate	Color	Results	XRF Reading	
35	B	Basement	Window Sash	Wood	White	Positive	1.8	
36	D	Basement	Wall	Brick	Gray	Negative	0.1	
37	D	Basement	duct	Metal	Gray	Negative	0.3	
38	B	Basement	Shelf	Wood	Gray	Negative	0.7	
39	B	Basement	Shelf	Wood	Gray	Negative	0.1	
40	A	Bedroom 3	Window Sill	Wood	White	Positive	1.5	
41	A	Bedroom 3	Window Casing	Wood	White	Positive	3.8	
42	D	Bedroom 3	Baseboard	Wood	White	Positive	2.8	
43	C	Bedroom 3	Door Casing	Wood	White	Positive	4.2	
44	C	Bedroom 3	Door	Wood	White	Positive	6.4	
45	B	Bedroom 3	Wall	Drywall	Red	Negative	0.1	
46	D	Bedroom 3	Wall	Drywall	Red	Negative	0.1	
48	B	Bedroom 1	Wall	Drywall	Blue	Negative	0.3	
49	B	Bedroom 1	Closet Door Casing	Wood	White	Positive	2.9	
50	B	Bedroom 2	Wall	Drywall	Green	Negative	0	
51	D	Bathroom 1	Closet Shelf	Wood	White	Negative	0	
52	A	Building	Railing	Wood	White	Positive	4.9	
53	A	Building	Column	Wood	White	Positive	5.7	
54	A	Building	Ceiling	Wood	White	Positive	1.4	
55	A	Building	Header Beam	Wood	White	Positive	1.3	
56	D	Building	Window Sill	Aluminum	White	Negative	0.6	
57	D	Building	Window Sill	Aluminum	White	Positive	7	
58	D	Building	Window Casing	Aluminum	White	Positive	7.1	
59	D	Building	Siding	Metal	White	Positive	1.2	
60	C	Building	Siding	Wood	Beige	Positive	4.3	
61	C	Building	Door	Wood	White	Negative	0	
62	C	Building	Door	Wood	White	Negative	0	
63	A	Building	Fascia	Wood	White	Positive	1.1	
64	A	Calibration						1
65	A	Calibration						1
66	A	Calibration						1.1