STAFF REPORT: FEBURARY 17, 2021 MEETING PREPARED BY: B. CAGNEY
APPLICATION NUMBER: 21-6997
ADDRESS: 14935 WESTWOOD
HISTORIC DISTRICT: ROSEDALE PARK
APPLICANT: EDWARD WENZ / CTI CONTRACTOR SERVICES, LLC
PROPERTY OWNER: DEMARYST GARWOOD
DATE OF PROVISIONALLY COMPLETE APPLICATION: 1/19/2021
DATE OF STAFF VISIT: 2/4/2021

SCOPE OF WORK: REPLACE EXISTING WINDOWS, ADD ALUMINUM TRIM TO SOFFITS, FASCIA

14935 Westwood, staff photo.

Existing Conditions
14935 Westwood is a 2 story, single-family home, erected in 1951, located midblock between Eaton and Chilfonte Ave, in Rosedale Park. The home features a white brick first story and white aluminum horizontal siding on the second story. The home is an example of Rosedale Park's post-World War II architecture: the façade of the home features fewer architectural details than some of the other homes in the neighborhood that were built earlier in the century. Instead, this home offers the home owner a design with less maintenance and the comfort of an attached garage. The original true divided light windows

and the front door are some of the most character defining features of the home, besides the white brick. The home features aluminum siding on the second story, it is the applicant's understanding the siding is original to the home and there is no old siding below, just fiber board sheathing. The windows feature aluminum storm windows and have been trimmed with white aluminum coil.

The applicant states that there is lead contamination from paint around the home. As submitted in the Lead Inspection & Risk Assessment Report, windows, exterior aluminum soffit, siding and window trims have been painted with a lead based pain and that all windows show signs of lead contamination and the operation of such creates dust, posing a hazard to the occupants of the home, especially children. The applicant states that the replacement of the windows is the only 100% assurance to remove the lead hazard from the home.

HDC digital archives do not indicate that any COA's have been issued for this address. BSEED records do not indicate any exterior permits have been pulled at this address with the exception of the pending permits currently in review for the lead remediation work.

Proposed Scope of Work: With the current proposal, the applicant is seeking the Commission's approval to remediate the lead hazards of the home through the following workscope:

Window Replacement:

- Replace (17) seventeen double-hung windows, including sash, jamb, trim and sill, with new Quaker wood window units.
    - The window frames of the proposed units are generally within 3/8" of existing frame size.
- Window types include 6/6, 4/4, 8/1, 3/1 and 1/1.
    - The proposed windows feature exterior applied muntins to match the original configuration of the existing windows.
    - Proposed muntins are 1/8" larger than existing muntins.
- Applicant proposes to remove the exterior steel protection bars from the exterior of the windows.

Enclosure of existing trim on soffit and fascia:

- The applicant is proposing to cover the existing aluminum with new aluminum to enclose all existing lead paint and dust that may be created.
- A manufacture specification for the aluminum enclosure was not provided.

Front Door Repair:

- Door will remain and will be scraped & painted to maintain old existing wood unit.
    - The front door will be cut down on the edges to remove paint and re-painted to ensure no edges will hit or cause friction or impact to cause lead dust.

Staff Observations and Research:

- Rosedale Park Historic District was designated in 2007.
- HDC photo achieves do not include a designation photo for this address.
- The applicant has provided additional information to staff as to why replacement has been proposed.
- The applicant provided a letter from the State Historic Preservation Officer stating they found the proposal will have no adverse effect provided the following conditions are met:

- *The original front door, if existing, should be repaired, rather than replaced. If the door is beyond repair, then the replacement door must match the size, design, proportions, profile and where possible, materials of the existing original door.*
- *Existing original windows should be repaired rather than replaced. If these windows are beyond repair, or documented lead levels preclude reuse, then the replacement windows must match the size, design, proportions, profile, and where possible materials of the existing original windows. If sash replacements are used in lieu of replacement windows, they must match the size, design, proportions, profile and material of the existing sash, with no modern materials exposed. Aluminum or vinyl clad sashes are not generally acceptable. If true divided light windows are not used, grilles must be permanently affixed to both the interior and the exterior of the windows. Enclosed is a copy of Preservation Brief #9: "The Repair of Historic Wooden Windows" that provides further guidance on this issue. Vinyl windows generally do not meet these requirements.*
- *Tinted windows are inappropriate in historic buildings. A low-e coating is acceptable only if the coating does not cause a tint or significantly increase the reflectivity of the glass.*
- *Aluminum or vinyl covered trim is not appropriate on a historic building. The existing original trim should be repaired and repainted, rather than replaced or covered with synthetic materials. Any replacement trim needed must match the material, size, configuration, and face exposure of the original. Enclosed are copies of Preservation Brief #8: Aluminum and Vinyl Siding on Historic Buildings and Preservation Brief #10: Exterior Paint Problems on Historic Woodwork that provide further guidance on these issues. This includes exterior fascias, frieze boards, porch beans, door and window casings.*

- The U.S. Department of the Interior Technical Preservation Brief # 37, *Appropriate Methods for Reducing Lead-Paint Hazards in Historic Housing,* offers guidance, as listed below, but no absolute rules to lead remediation (See Issues).
  - "Features and finishes of a historic building that exhibit distinctive characteristics of an architectural style; represent work by specialized craftsmen; or possess high artistic value should be identified so they can be protected and preserved during treatment. When it is absolutely necessary to remove a significant architectural feature or finish-as noted in the first two priorities listed below-it should be replaced with a new feature and finish that matches in design, detail, color, texture, and, in most cases, material."
  - "To make historic housing lead-safe, the gentlest method possible should be used to remove the offending substance-lead-laden dust, visible paint chips, lead in soil, or extensively deteriorated paint. Overly aggressive abatement may damage or destroy much more historic material."

Issues:

- The applicant states that "even if paint is stripped, lead will leach into the wood and leach back into new painted units" and "replacement is the only 100% assurance that the lead will be removed, and the lead hazard s will not return to poison these children or others in the future."
- Staff does recognize that windows are an operable feature on a house and that friction can create dust.
- TPS Brief 37 gives staff guidance in planning for lead hazard reduction:
  - See full attachment uploaded with staff report on website.

1. Identify the historical significance of the building and architectural character of its features and finishes;
2. Undertake a risk assessment of interior and exterior surfaces to determine the hazards from lead and lead based paint;
    - Hazards should be removed, mitigated, or managed in the order of their health threat, as identified in a risk assessment (with 1. the greatest risk and 8. the least dangerous):
        1. Peeling, chipping, flaking, and chewed interior lead¬ based paint and surfaces
        2. Lead dust on interior surfaces
        3. High lead in soil levels around the house and in play areas (check state requirements)
        4. Deteriorated exterior painted surfaces and features
        5. Friction surfaces subject to abrasion (windows, doors, painted floors)
        6. Accessible, chewable surfaces (sills, rails) if small children are present
        7. Impact surfaces (baseboards and door jambs)
        8. Other interior surfaces showing age or deterioration (walls and ceilings)
3. Evaluate the options for lead hazard control in the context of historic preservation standards.
    - "The preservation standards call for the protection of historic materials and historic character of buildings through stabilization, conservation, maintenance, and repair. The rehabilitation standards call for the repair of historic materials with replacement of a character-defining feature appropriate only when its deterioration or damage is so extensive that repair is infeasible. From a preservation standpoint, selecting a hazard control method that removes only the deteriorating paint, or that involves some degree of repair, is always preferable to the total replacement of a historic feature."
    - "By tying the remedial work to the areas of risk, it is possible to limit the amount of intrusive work on delicate or aging features of a building without jeopardizing the health and safety of the occupants. To make historic housing lead-safe, the gentlest method possible should be used to remove the offending substance-lead-laden dust, visible paint chips, lead in soil, or extensively deteriorated paint. Overly aggressive abatement may damage or destroy much more historic material than is necessary to remove lead paint, such as abrading historic surfaces. Another reason for targeting paint removal is to limit the amount of lead dust on the work site. This, in turn, helps avoid expensive worker protection, cleanup, and disposal of larger amounts of hazardous waste."

- The applicant is proposing to encapsulate the soffits and frieze boards that have been painted with lead based paint with additional aluminum covering. It is unclear the overall effect that this will have on the facade. It is not clear if the applicant has explored alternate means of paint removal or in-kind replacement.
- The letter from the SHIPO states "The existing original trim should be repaired and repainted, rather than replaced or covered with synthetic materials. Any replacement trim needed must match the material, size, configuration, and face exposure of the original." Staff would recommend approval for in-kind replacement of the soffit and trim. While it aluminum material may be original to the home, staff does not feel it is a character-defining feature and replacing it in-kind would be more appropriate than encapsulating these features with another layer of aluminum trim.
- It is staff's opinion, based in the Secretary of the Interior Standards for Rehabilitation and the Technical Preservation Brief that it may be possible to eliminate the lead hazard by alternate

means besides complete window replacement. Staff has asked the applicant to explain why this is not possible in this case.

Recommendation: Window Replacement
Staff is still not clear that full scale window removal and replacement is "gentlest method possible" and would advocate for an approach consistent with NPS guidelines, as required of the Commission in its consideration of a Certificate of Appropriateness. Therefore, staff recommends that the Commission deny a Certificate of Appropriateness for the proposed work.

Should the Commission approve the removal of the windows, Staff feels that the Quaker wood windows would be an appropriate replacement as proposed, material design and operation of the proposed windows is appropriate replacement for the existing wood windows if the Commission should agree with the applicant that the replacement is the best method for lead remediation.

Recommendation: Soffit and Fascia encapsulation
It is staff's opinion that the encapsulation of the soffits and fascia of the home with additional aluminum trim would not totally eliminate the hazard and detract from the overall historic character of the home. Staff recommends that the Commission deny this method of lead remediation. However, staff would support in-kind replacement of these features with the condition that the applicant supply specifications of replacement materials.

14935 Westwood, southwest view, 1980 HDC designation photo.

14935 Westwood, southeast view, staff photo.

14935 Westwood, west facade, staff photo.

HDC Application for work @ 14935 Westwood – Detroit, MI 48223

Lead Abatement Project for State of Michigan Lead Program

- Objective of project is to remediate / abatement / control lead hazards to save children in the home from lead poisoning.
  - Owner: Demaryst Garwood
  - 313-896-6008

- State Lead Abatement Contractor
  - CTI Contractor Services, LLC
  - State Firm Lic # C-00982
  - City Lic# LIC2020-00899

Front Livingroom

Exterior view of front side A

Livingroom windows

Current units are 40% upper & 60% lower Double Hung type windows

Old Aluminum storm windows are present but in poor and non-working condition

All windows are trimmed with aluminum coil trim, white in color

Muntin bars on flankers & only upper on center

Front of home has aluminum soffit and siding on front & partial sides. All soffit and fascia and rake boards are already trimmed with aluminum trim. They were subsequently painted with lead-based paint on top of the aluminum trim some time in the past history of paint work

Front Upper Bedroom

Front upper bedroom side A on the home, but on left side

Current window unit is a 50/50 Double Hung

Muntins are standard colonial pattern

Old Aluminum storm windows are present but in poor and non-working condition

All windows are trimmed with aluminum coil trim, white in color

Shutters are to remain

Existing soffit & fascia and gutters are all aluminum, but were painted over

Front Upper Bedroom

Front upper bedroom side A on the home, but on right side

Current window unit is a 50/50 Double Hung

Muntins are standard colonial pattern

Old Aluminum storm windows are present but in poor and non-working condition

All windows are trimmed with aluminum coil trim, white in color

Shutters are to remain

Existing soffit & fascia and gutters are all aluminum, but were painted over

Front Livingroom 2 / Familyroom area

Front lower livingroom / familyroom side A on the home, but on right side

Current window unit is a 50/50 Double Hung

Muntins are standard colonial pattern

Old Aluminum storm windows are not present only frame. Frame in poor and non-working condition

All windows are trimmed with aluminum coil trim, white in color

Shutters are to remain

Existing soffit & fascia and gutters are all aluminum, but were painted over

Side B Upper Windows

Side B (left side) upper bedrooms side B on the home, but on left side

Current window unit is a 50/50 Double Hung

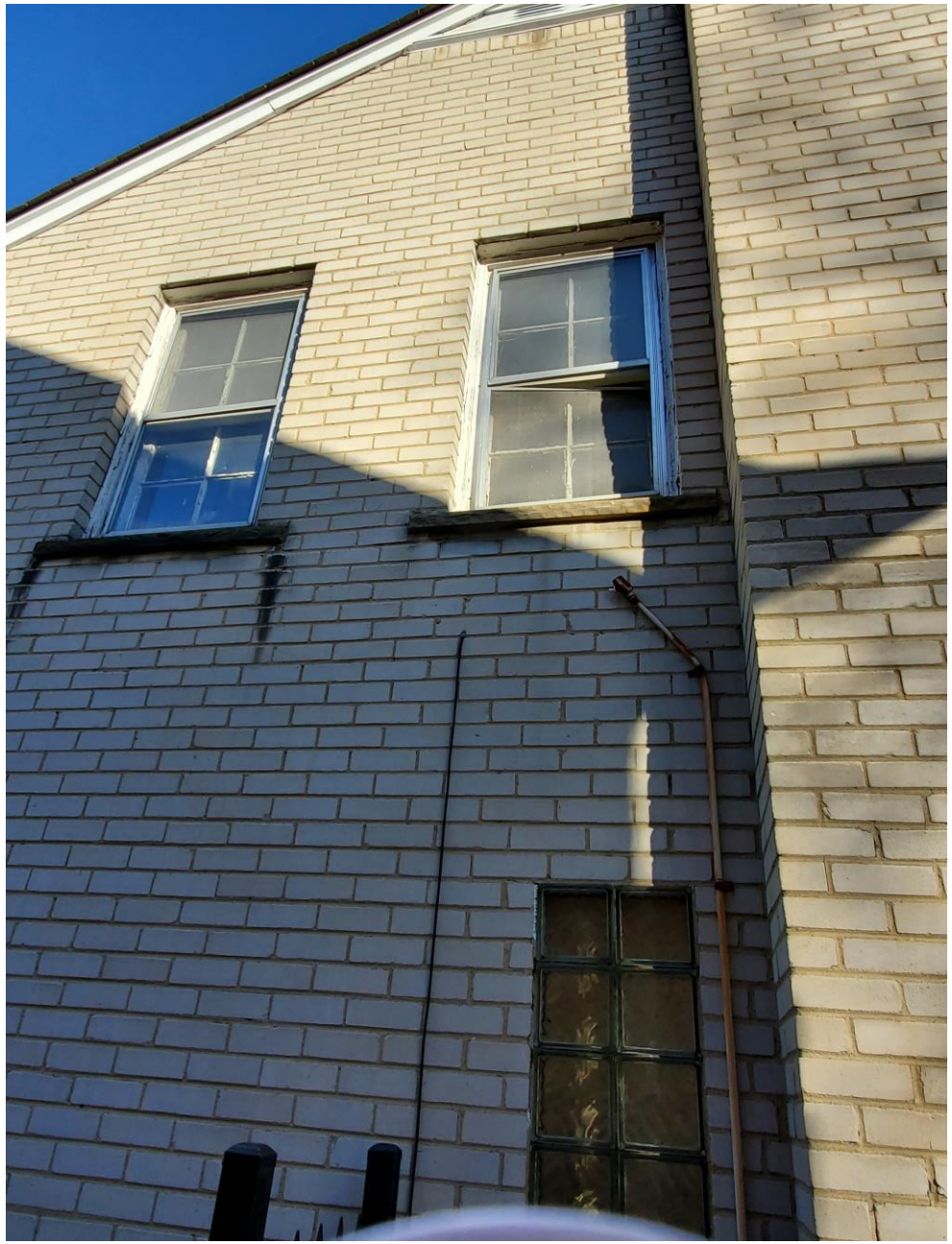
Muntins are standard colonial pattern

Old Aluminum storm windows are present but in poor and non-working condition

All windows are trimmed with aluminum coil trim, white in color

Existing rake edge and gable vent are all aluminum, but were painted over

> 1st floor windows in livingroom on side B are glass block



Side D Upper Stairwell

Side D (right side) upper stairwell window side D on the home, but on right side

Current window unit is a 50/50 Double Hung

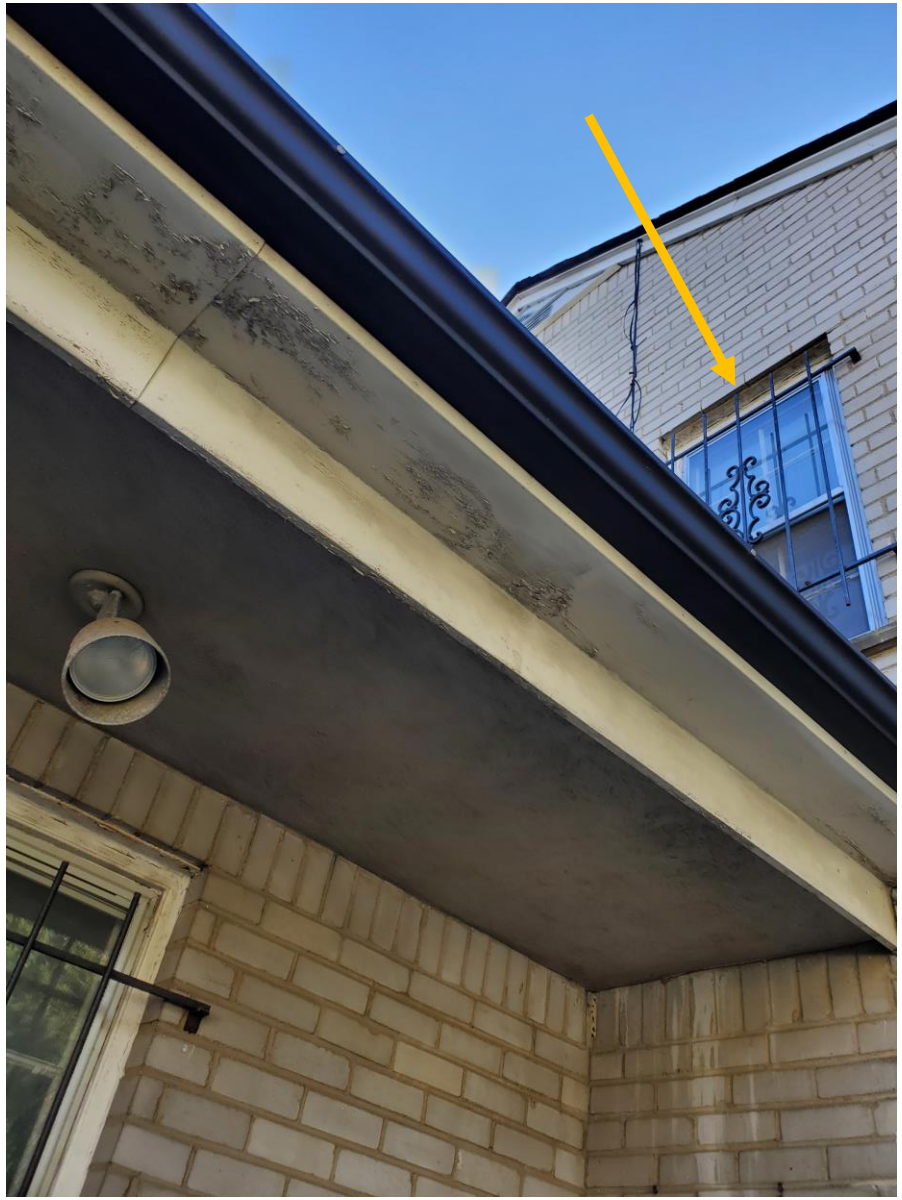
Muntins are standard colonial pattern

Old Aluminum storm windows are present but in poor and non-working condition

All windows are trimmed with aluminum coil trim, white in color

Windows bars would be removed

Existing rake edge and gable vent are all aluminum, but were painted over



Side D Upper Bedroom

Side D (right side) upper front bedroom window side D on the home, but on right side

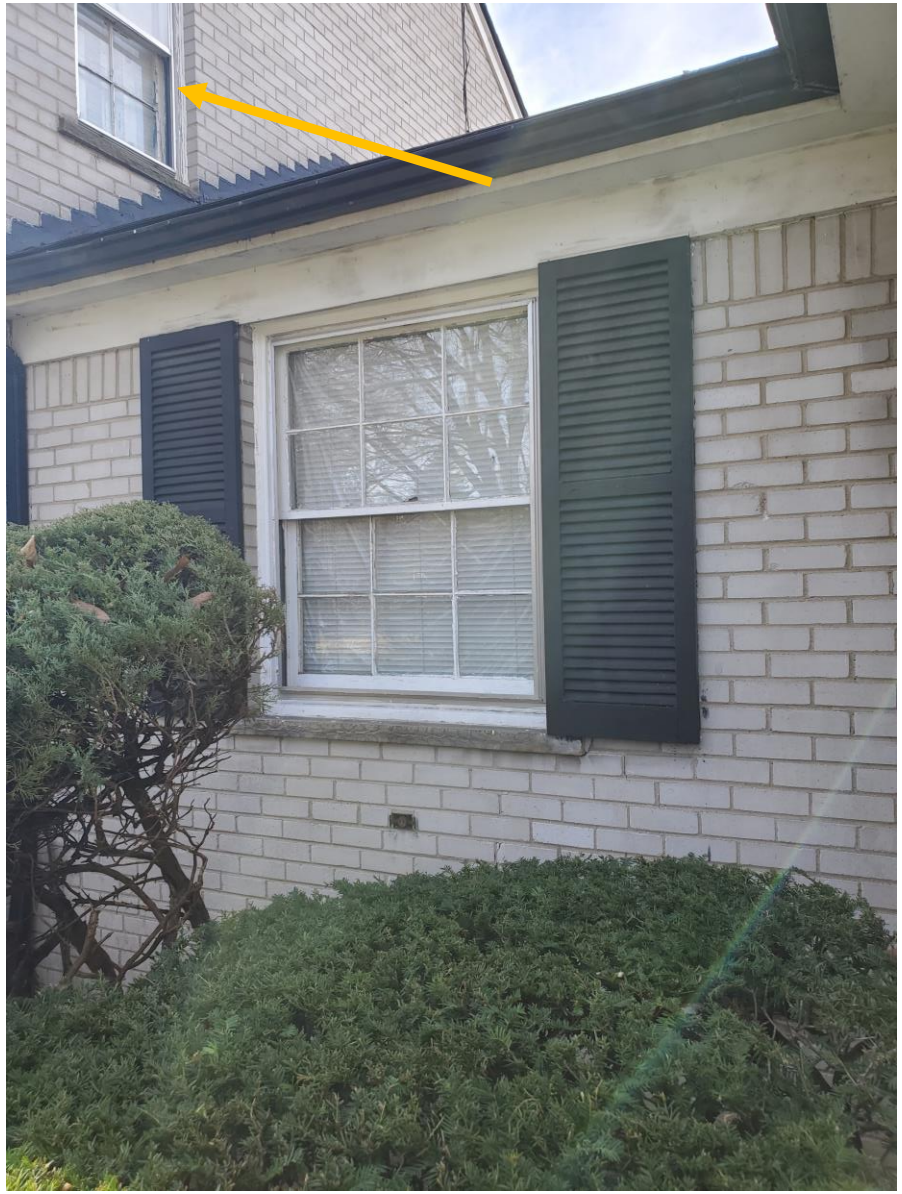
Current window unit is a 50/50 Double Hung

Muntins are standard colonial pattern

Old Aluminum storm windows are present but in poor and non-working condition. Only frame is existing

All windows are trimmed with aluminum coil trim, white in color

Existing rake edge and gable vent are all aluminum, but were painted over



Garage Windows

Garage Windows on Side D & C

Right Side or Home and Rear Side of Home

Both windows are currently and have been for many years a Glass Block type window

These units are not lead painted and will not be addressed as part of the Lead Abatement Project as SOW by the State.

Kitchen Window

Exterior view of Rear side C

Kitchen window

Current units are 40% upper & 60% lower Double Hung type windows

Muntin bars only on upper section

Old Aluminum storm windows are present but in poor and non-working condition

All windows are trimmed with aluminum coil trim, white in color

Paint is flaking off areas where trim is missing

Window bars will be removed

1st Floor ½ Bathroom

Side D (right side) Lower bathroom window side D on the home, but on right side

Current window unit is a 50/50 Double Hung

Muntins are standard colonial pattern, missing as glass was changed. Lower glass is obscure

Old Aluminum storm windows are present but in poor and non-working condition

All windows are trimmed with aluminum coil trim, white in color

Paint is flaking off areas where trim is missing

Window bars will be removed

Diningroom Windows

Exterior view of Rear side C

Diningroom windows, 2 units. View is inside the sun porch area

Current units are 50/50 Double Hung type windows

Muntin bars are standard colonial type

Old Aluminum storm windows are present but in poor and non-working condition. Only frame is existing

All windows are trimmed with aluminum coil trim, white in color

Paint is flaking off areas where trim is missing

Window bars will be removed

Upper Bedrooms

Exterior view of Rear side C

Upper Bedroom windows, 2 units. View is from rear and is 2 different bedrooms

Current units are 50/50 Double Hung type windows

Muntin bars are standard colonial type

Old Aluminum storm windows are present but in poor and non-working condition. Only frame is existing

All windows are trimmed with aluminum coil trim, white in color

Paint is flaking off areas where trim is missing

Window bars will be removed

Rear Livingroom 2 / Family room area

Rear lower livingroom / familyroom side C on the home, but on rear side

Current window unit is a 50/50 Double Hung

Muntins are standard colonial pattern

Old Aluminum storm windows are not present only frame. Frame in poor and non-working condition

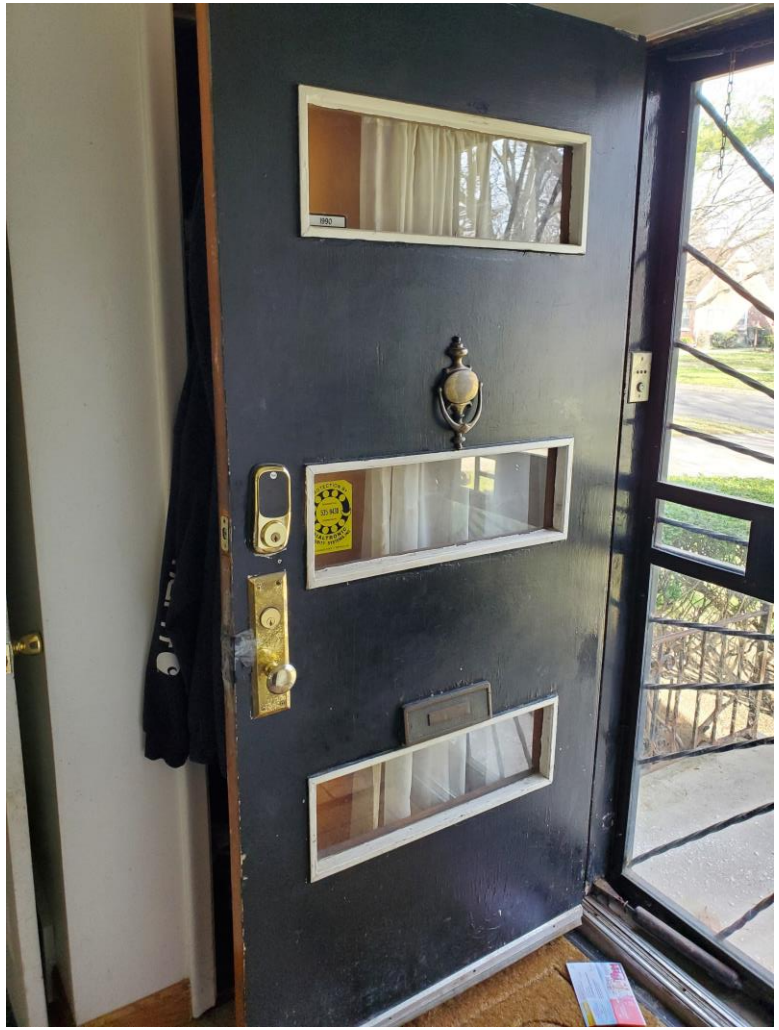
All windows are trimmed with aluminum coil trim, white in color

Existing soffit & fascia and gutters are all aluminum, but were painted over

Front Entry Door

Side A – Front Entry Door

Door will remain and will be scraped & painted to maintain old existing wood unit to keep same style as built



14935 Westwood - Lead Hazards

- Livingroom Windows

Paint Chips & Lead Dust.

High Levels of Lead Dust were found and is considered Hazardous

14935 Westwood - Lead Hazards

- Old Wood Windows

Paint Chips & Lead Dust.

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14935 Westwood - Lead Hazards

- Old Wood Windows

Paint Chips & Lead Dust.

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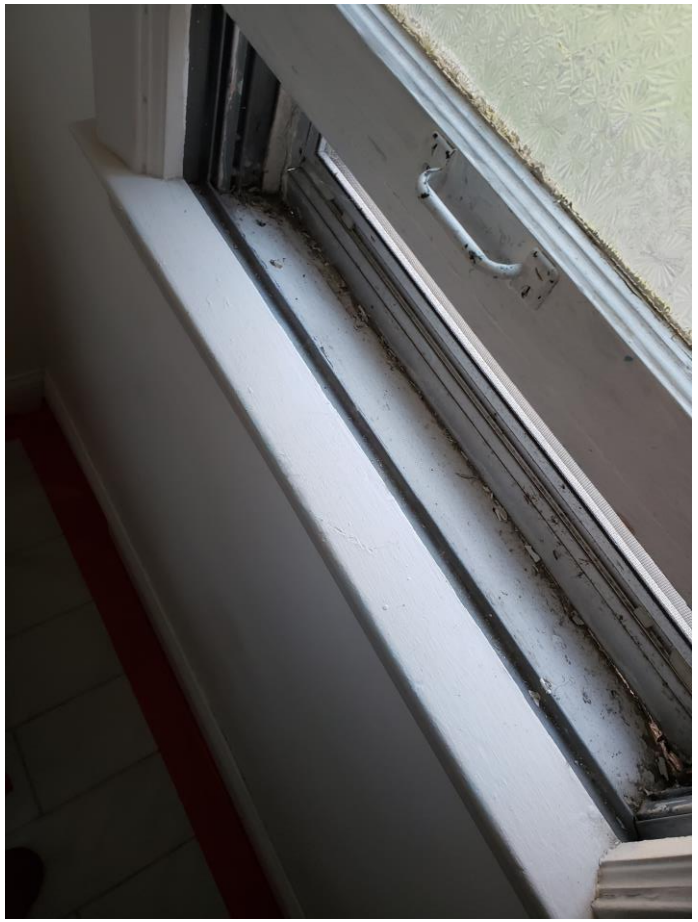

14935 Westwood - Lead Hazards

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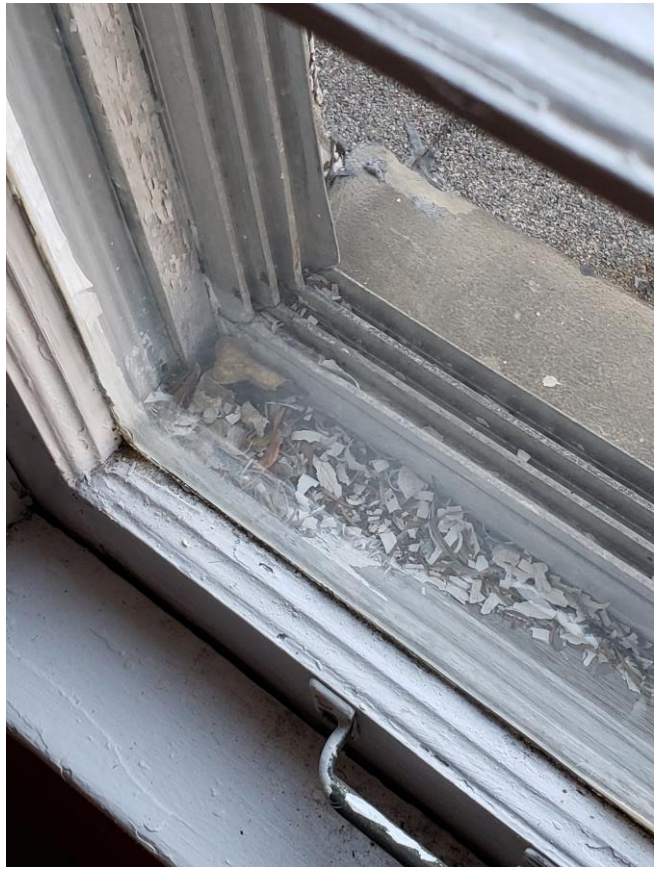

Paint Chips &
Lead Dust.

High Levels of
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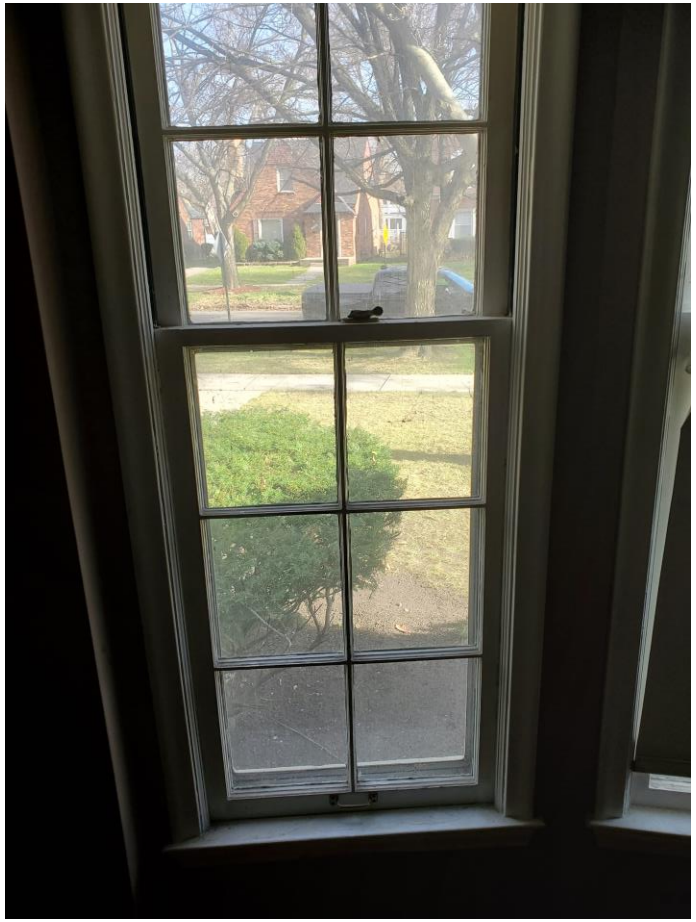
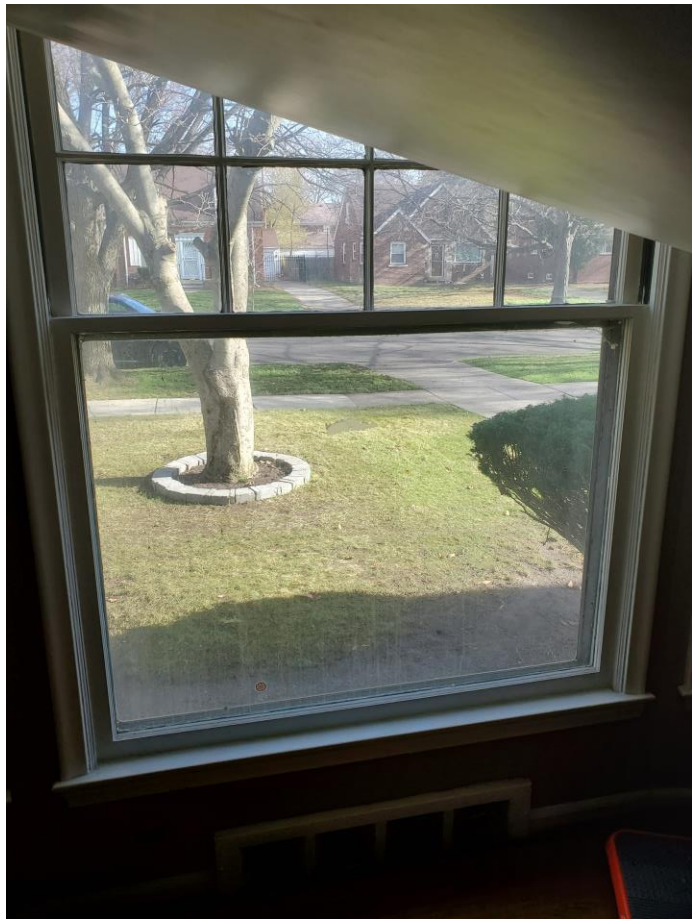
14935 Westwood – Detroit = Interior View



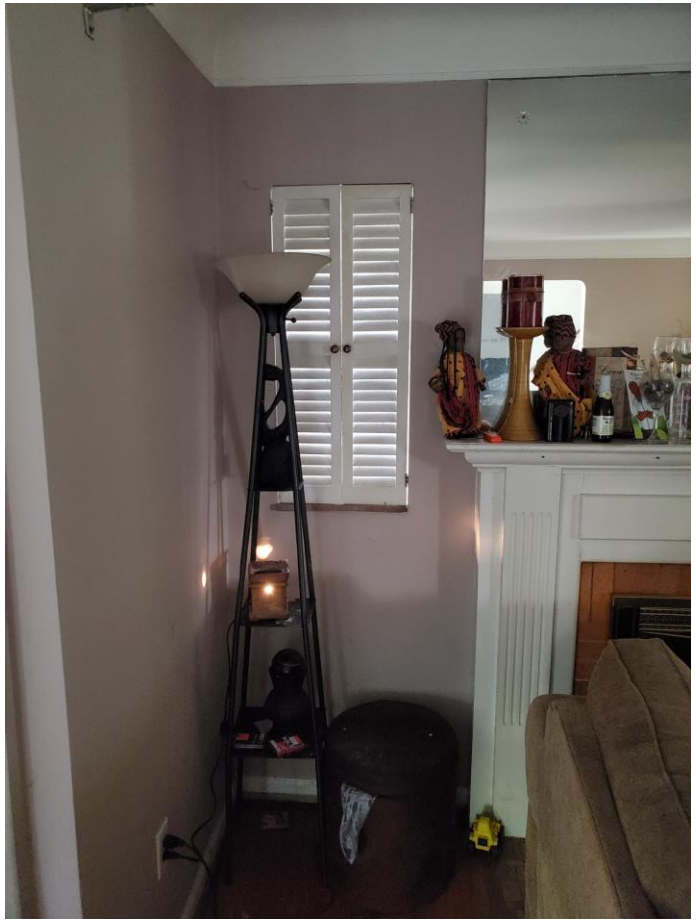
Front Livingroom windows

Center Double Hung unit painted shut

Locks on other flanker units do not work

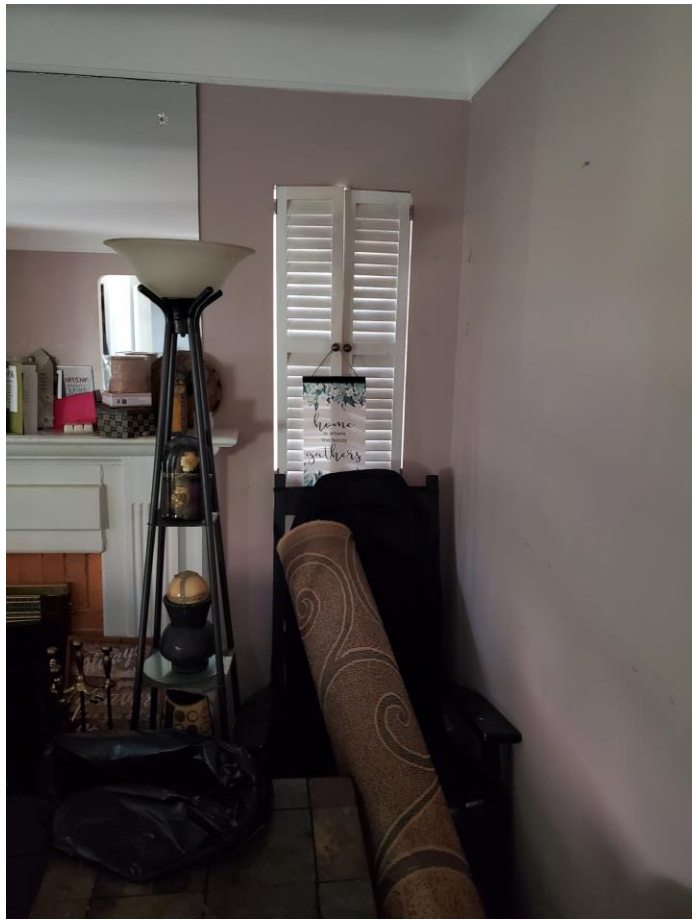


14935 Westwood – Detroit = Interior View

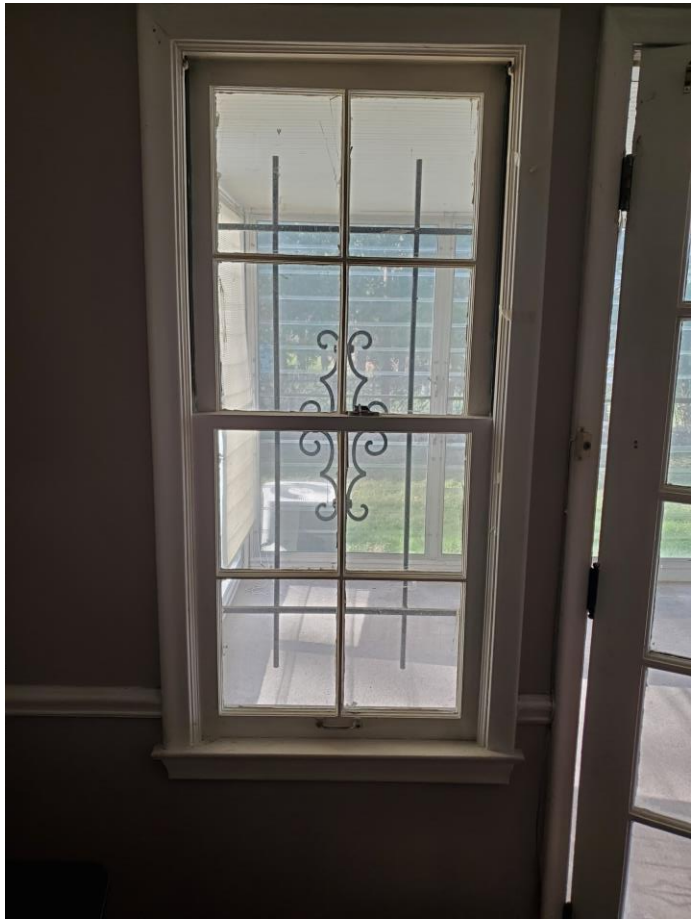


Side B Livingroom
windows – Left side

Glass Block windows



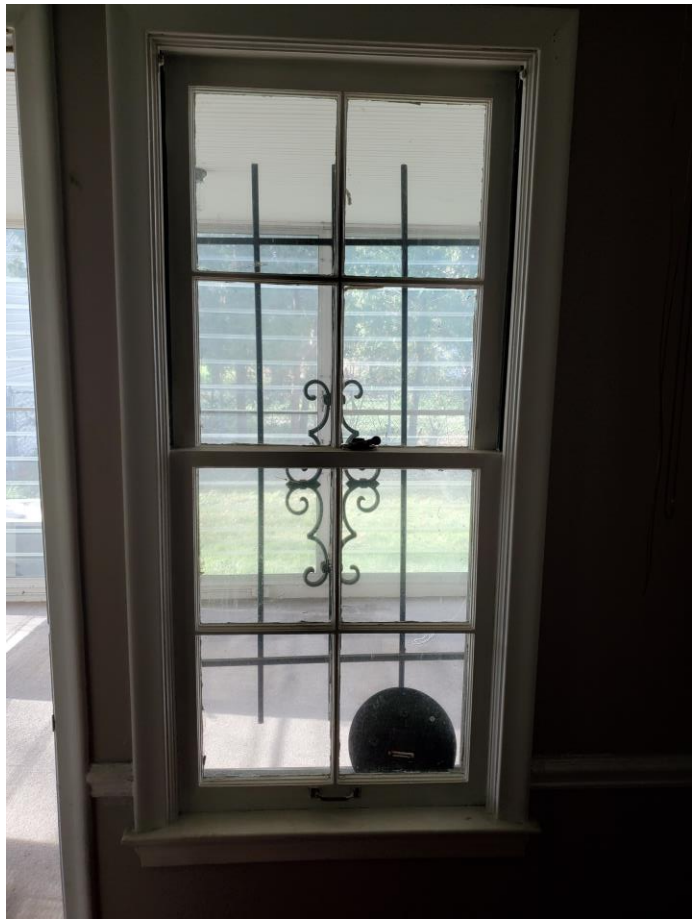
14935 Westwood – Detroit = Interior View



Dining room windows

painted shut

Locks on both units do not work



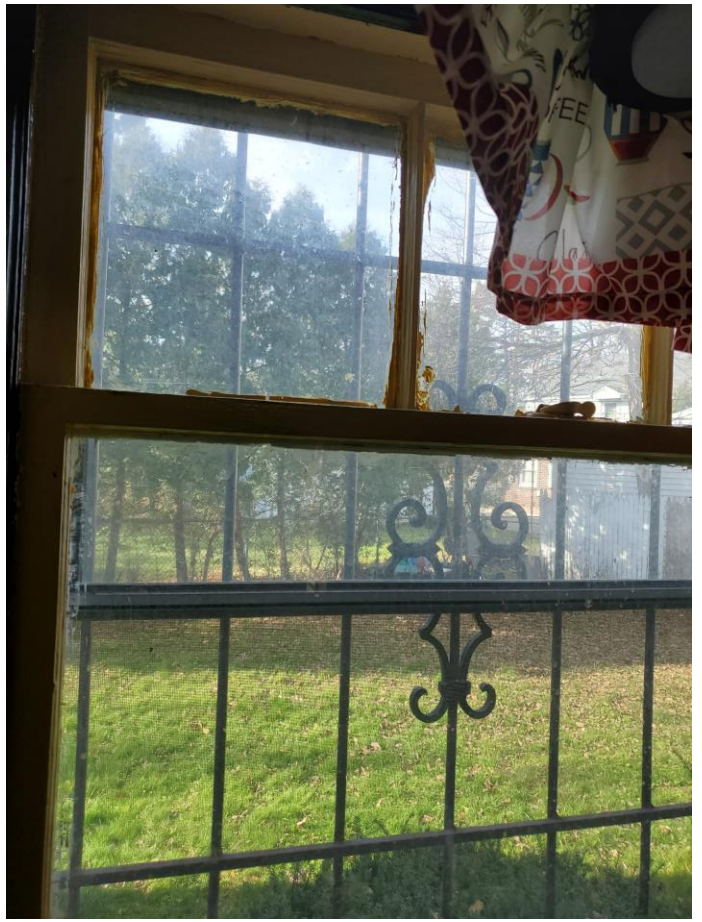
14935 Westwood – Detroit = Interior View

Rear Side C Kitchen window

Center Double Hung unit painted shut

Locks on units do not work

Storm is missing pieces and does not work



14935 Westwood – Detroit = Interior View

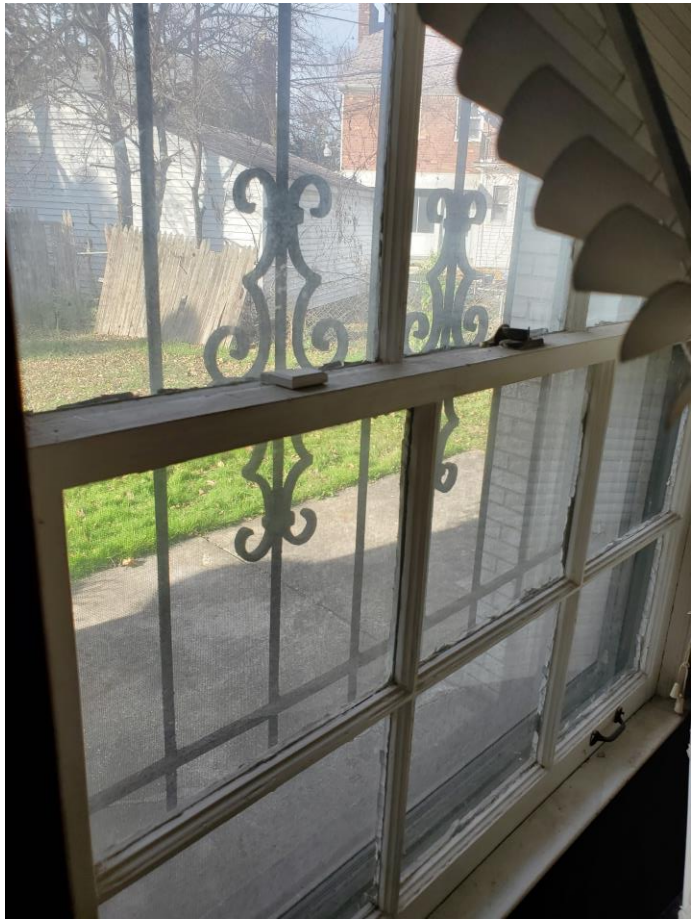
Side D ½ Bath window

Unit does not operate well

Locks on unit do not work

Glass panes have been changed and muntin bars removed

14935 Westwood – Detroit = Interior View

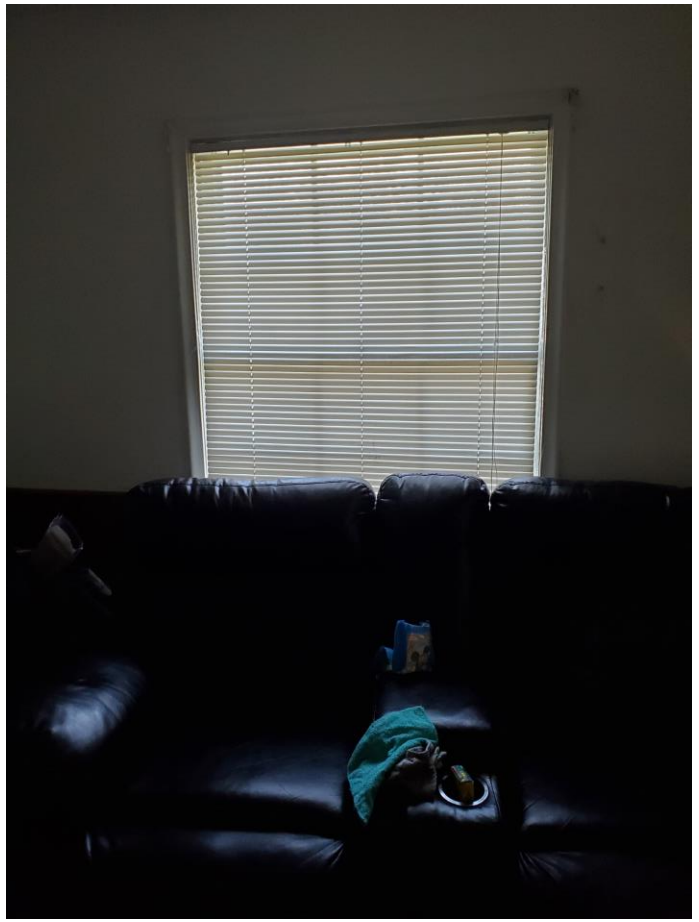


Living room 2 / Family room windows – 2 Units

Units does not operate well

Locks on unit do not work

Storm windows are missing panes and frame only



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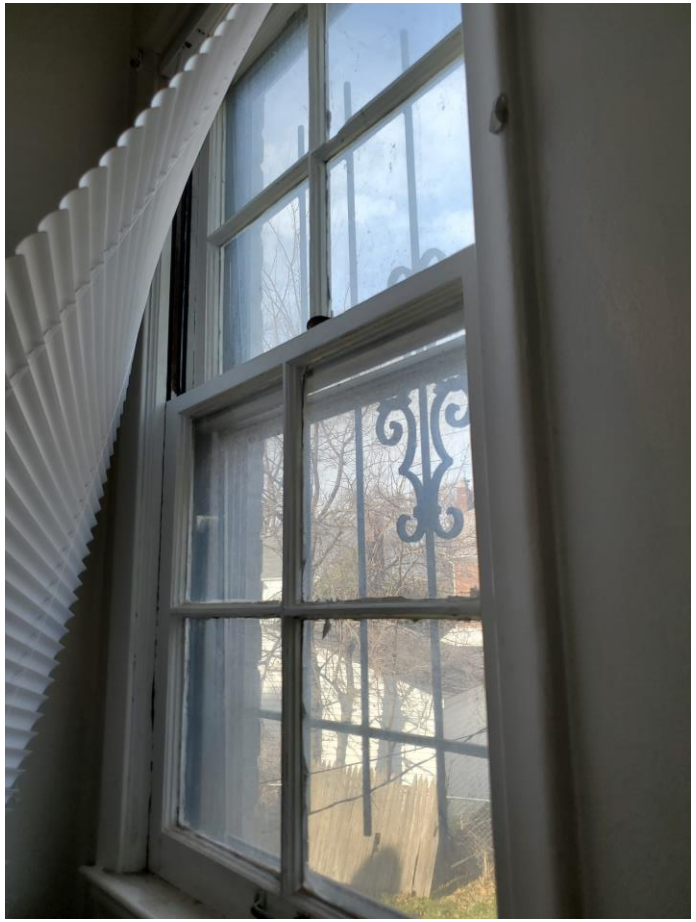


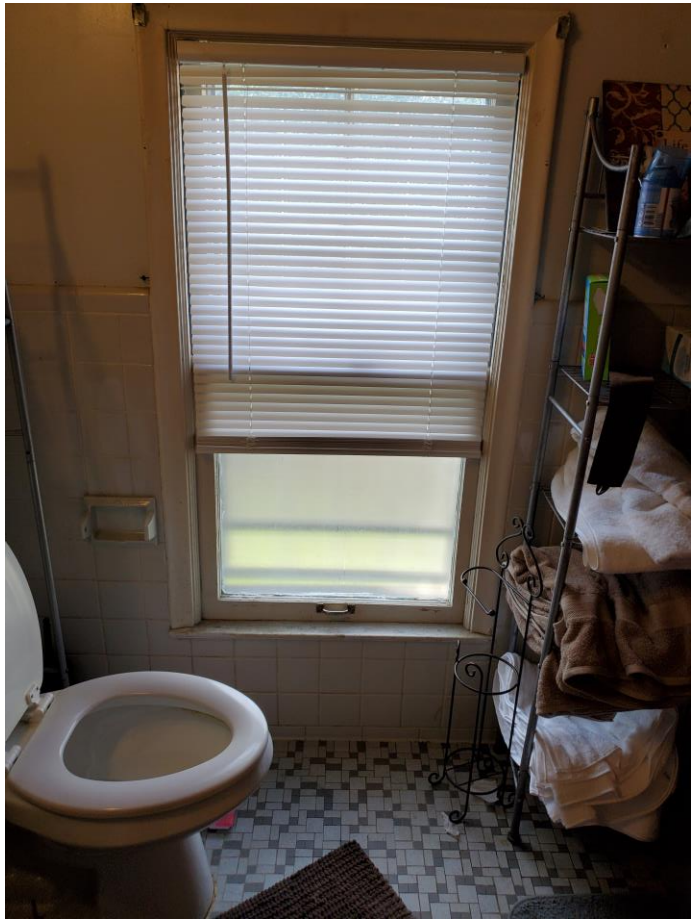
Side D Stairwell window

Unit does not operate well

Locks on unit do not work

Glass panes loose and glazing bad

14935 Westwood – Detroit = Interior View



Side C Full Bath window

Unit does not operate well

Locks on unit do not work

Glass panes have been changed and muntin bars removed on lower unit

14935 Westwood – Detroit = Interior View

Side A & D Upper Bedroom Window

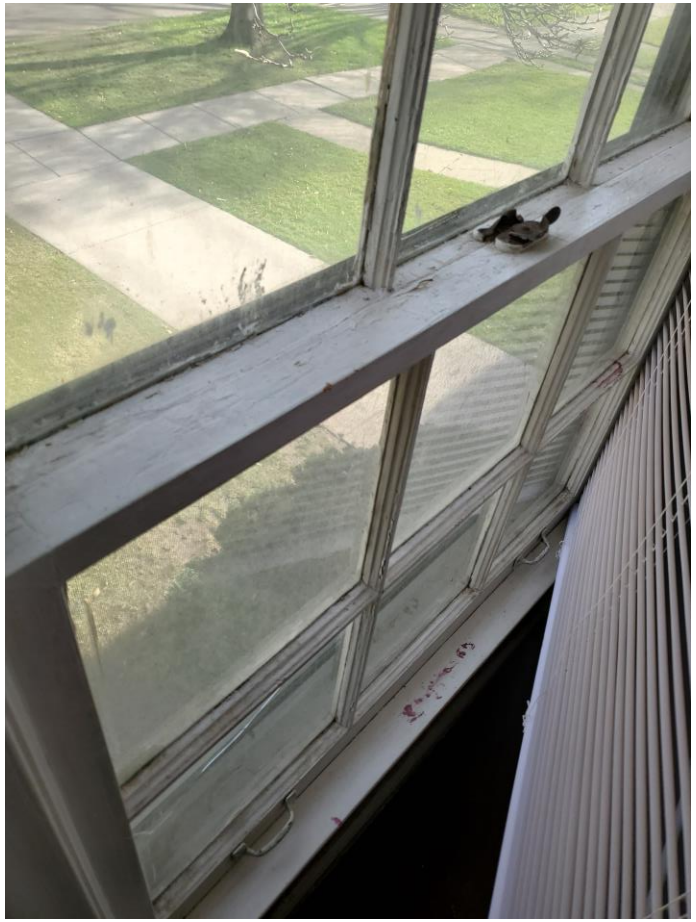
Unit does not operate well

Locks on unit do not work

Glass are un poor condition

Storm windows are broken

14935 Westwood – Detroit = Interior View

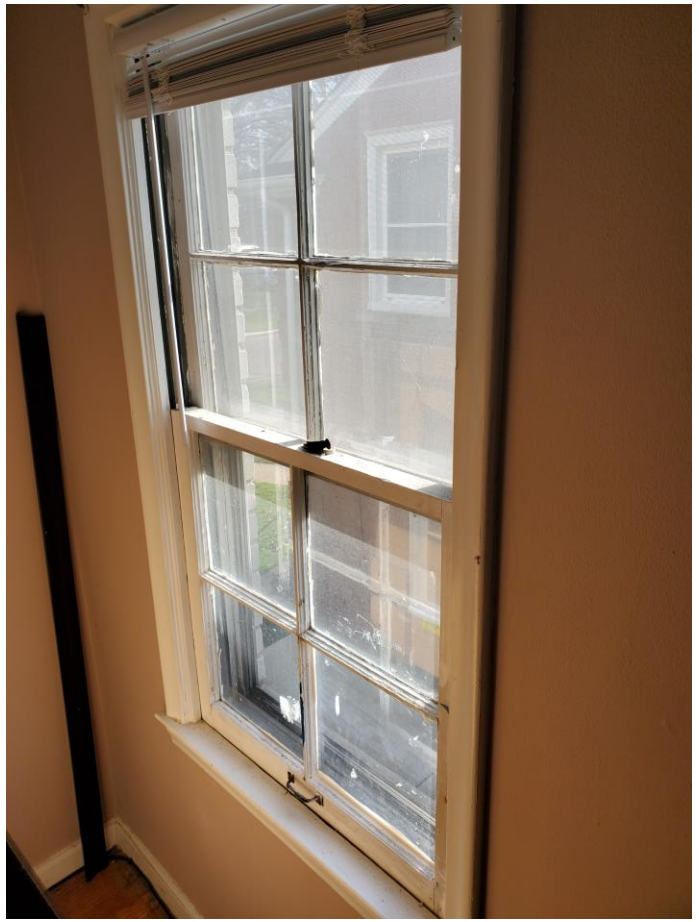


Side A & B Upper Bedroom windows

Unit does not operate well

Locks on unit do not work

Glass panes and glazing in poor condition



14935 Westwood – Detroit = Neighboring Homes on Street

- 14925 Westwood
- Neighbor to left of home
- Property has all vinyl replacement windows
- Property has all aluminum trim on fascia, rake, windows.

14935 Westwood – Detroit = Neighboring Homes on Street

- 14915 Westwood
- Neighbor to left of home
- Property has all vinyl replacement windows
- Property has all aluminum trim on fascia, rake, windows.
- Aluminum siding

14935 Westwood – Detroit = Neighboring Homes on Street

- 14922 Westwood
- Neighbor to left of home
- Property has all vinyl replacement windows
- Property has all aluminum trim on fascia, rake, windows.

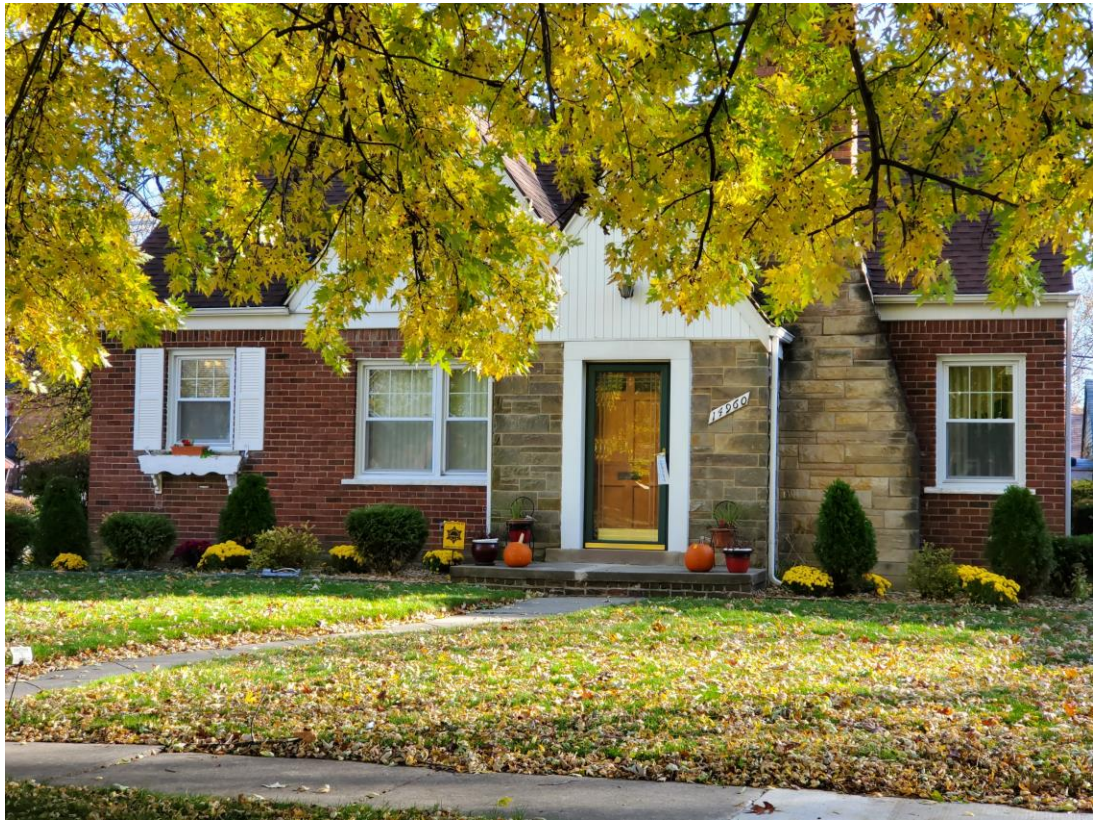
14935 Westwood – Detroit = Neighboring Homes on Street

- 14940 Westwood
- Neighbor to left of home
- Property has all vinyl replacement windows
- Property has all aluminum trim on fascia, rake, windows.
- Vinyl Siding

14935 Westwood – Detroit = Neighboring Homes on Street

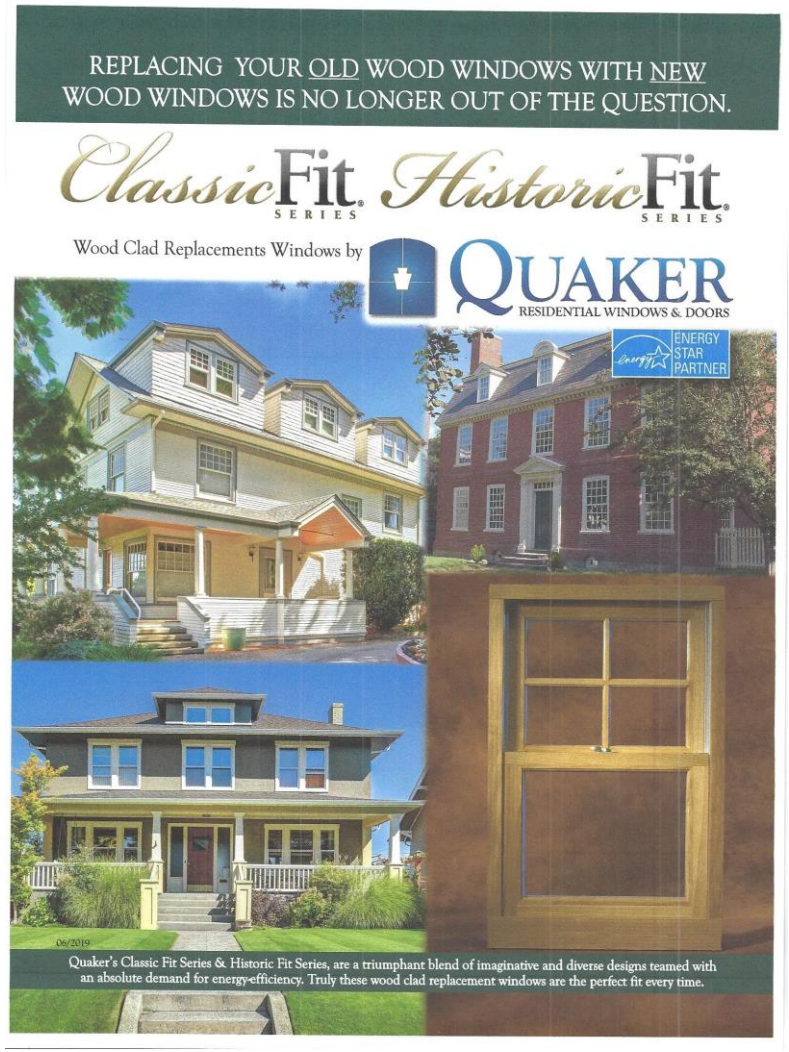
- 14950 Westwood
- Neighbor to left of home
- Property has all vinyl replacement windows
- Property has all aluminum trim on fascia, rake, windows.
- Vinyl Siding

14935 Westwood – Detroit = Neighboring Homes on Street



- 14960 Westwood
- Neighbor to left of home
- Property has all vinyl replacement windows
- Property has all aluminum trim on fascia, rake, windows.
- Vinyl Siding

14935 Westwood – Detroit = Proposed New Windows – QUAKER Windows



- Quaker Windows Systems
- Historic Fit Units
- Residential Windows
- Factory Powder-Coat Painted window exterior
- Lay On Glass Wood Muntin Bars for matching look of existing.
- Low-E & Argon gas filled sealed glass. Low film Low-e to match existing clear glass.

14935 Westwood – Detroit = Proposed New Windows – QUAKER Windows

- Quaker Windows Systems
- Historic Fit Units
- Residential Windows
- Unfinished wood on interior - can be stained or painted
- Lay On Glass Wood Muntin Bars for matching look of existing.
- Interior trim can be saved in some circumstances, but new can be installed to match.

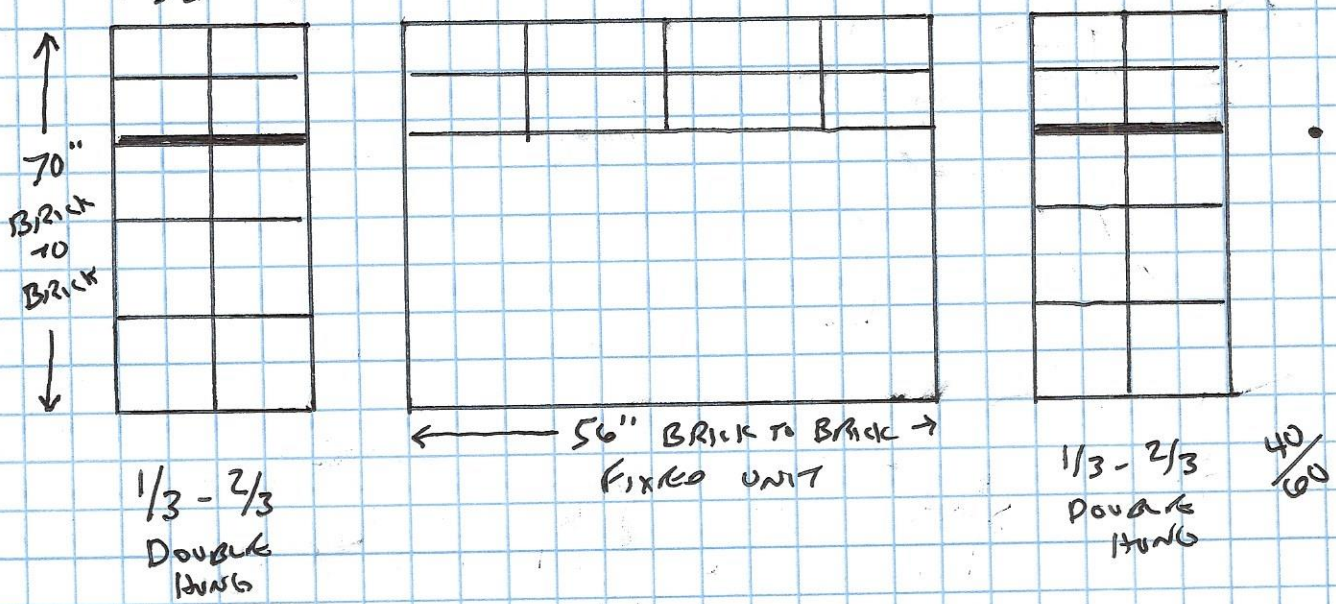
Lead Safe Work for Abatement of Existing Windows

CTI Contractor Services, LLC is:

- State of Michigan Licensed Builder
- State of Michigan Licensed Lead Abatement Firm
- US EPA RRP Firm
- State of Michigan Asbestos Abatement Firm
- City of Detroit Licensed Contractor

All Work will be performed to meet HUD, EPA, & State Lead Abatement Standards to make the home “Lead Safe” for the children in the home.

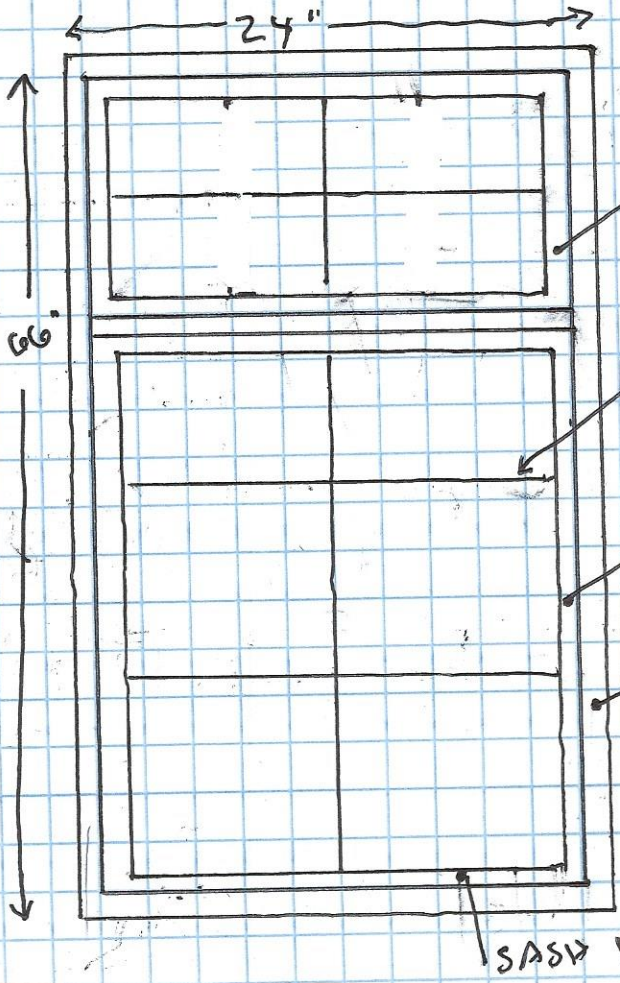
LIVING ROOM - SIDE A



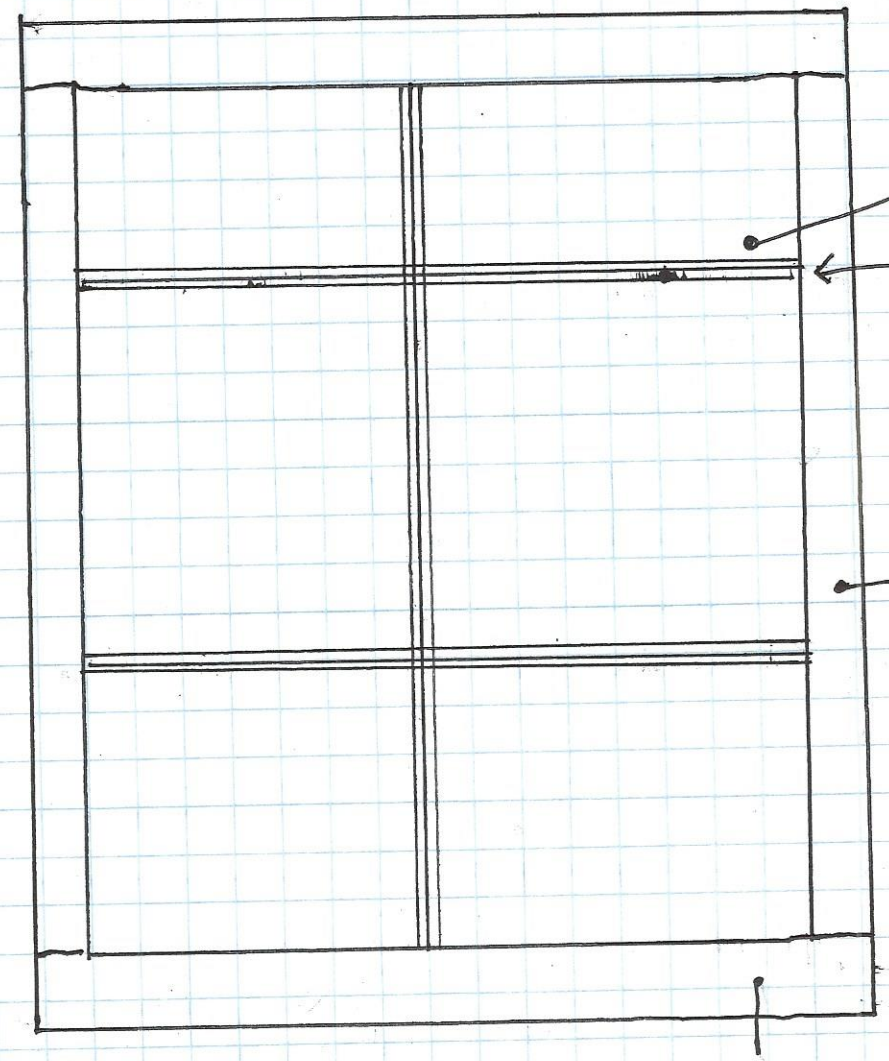
- BRICKMOLD VARIES IN SIZE FROM 1¼" - 1½" - 1¾" - 2" NOT UNIFORM
- THESE ARE IN A BRICK OPENING WITH ALL PAINTED TRIM
- FIXED STORM WINDOW IN POOR NON-WORKING CONDITION

DRAWING OF SIDE DOUBLE HUNG ON FRONT WINDOWS

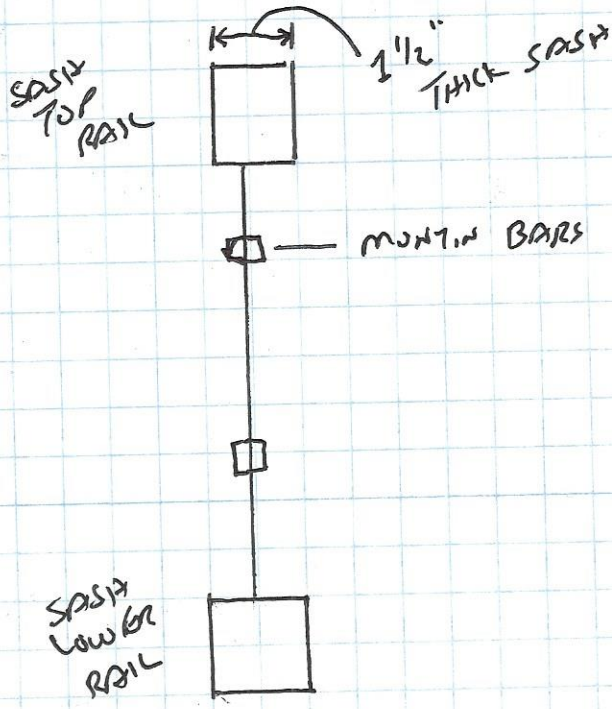
- NEW UNITS will be within 3/8" on all edges of frame



LIVING ROOM SIDE A

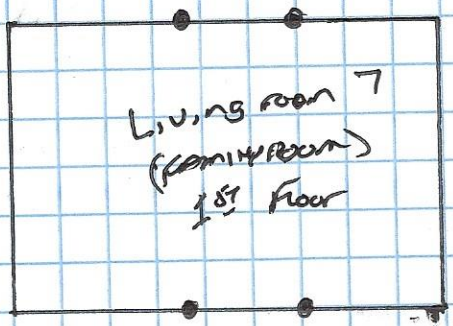


SASH VIEW

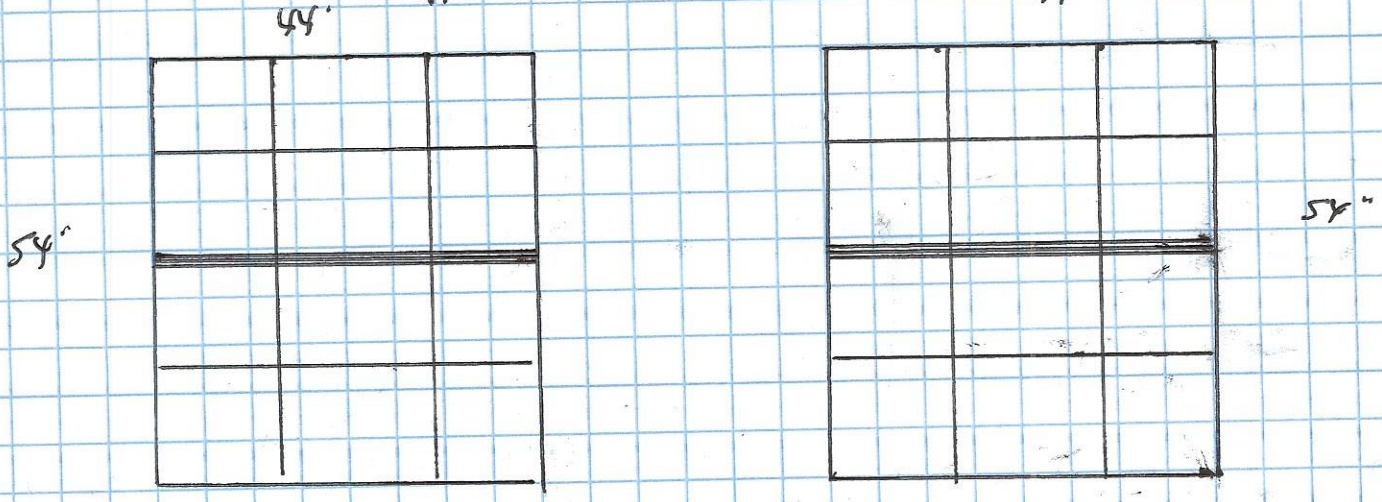


Family Room / Living Room 7
1st Floor

- Windows Front & Back of Room

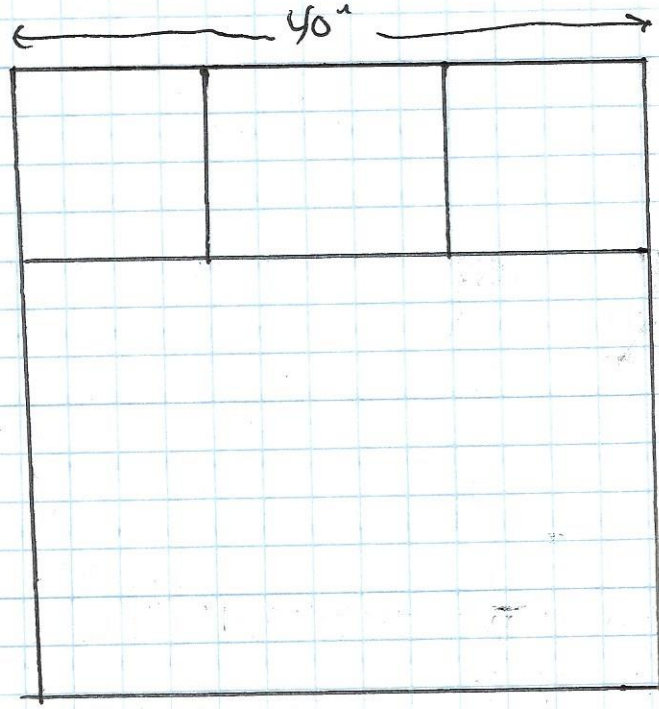


= Front Side =



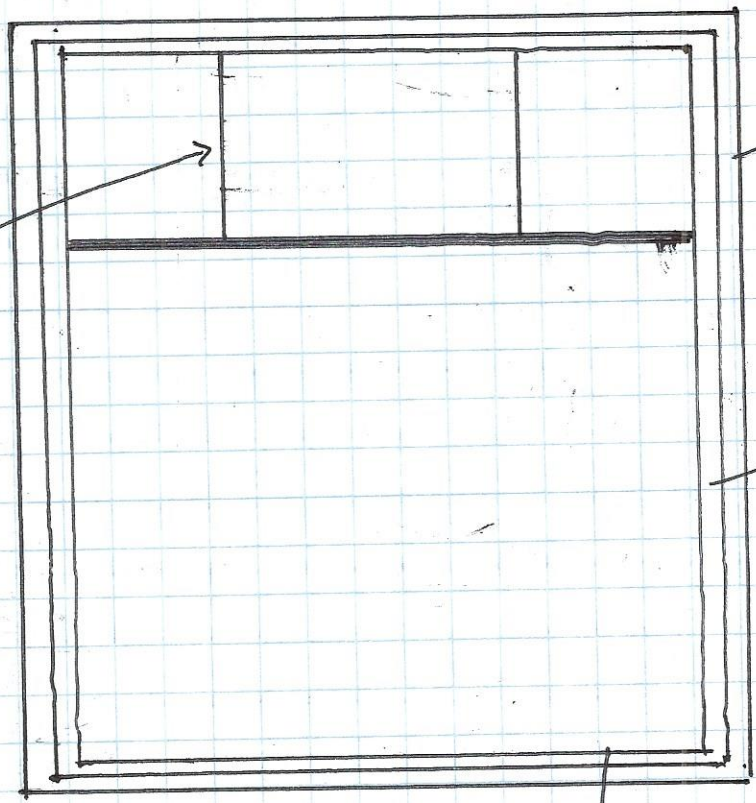
- These windows are set in brick openings
- Brickmold varies on perimeter from 1½" - 2", in width
- New units will be within 3/8" of original frame
- Sash frames & glass types are the same as all others
- Muntin bars are laid on glass on both sides 3/4" width. New will be 7/8" width of size. New will also lay on glass.

Kitchen - Rear 1st Floor

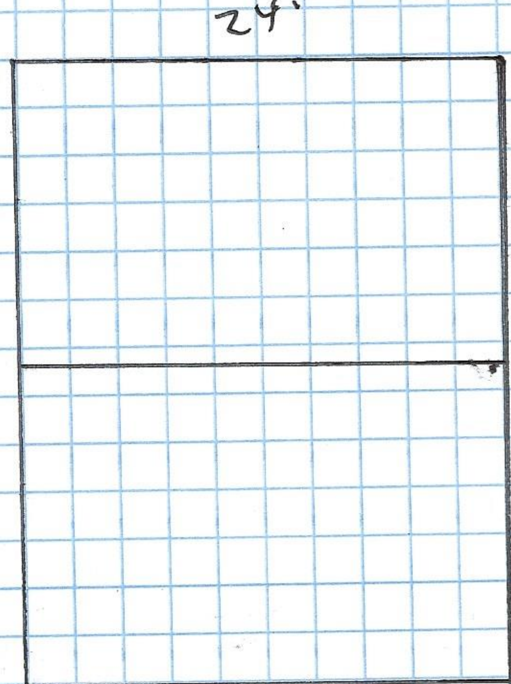


40/60
1/3/2/3
DOUBLE HUNG

- Brick opening
- Colonial muntin bars on upper sash only
- Brick mold varies from 1¼" - 2" on sides.
- Ext Trim to paint white
- Storm window is present. Broke & missing

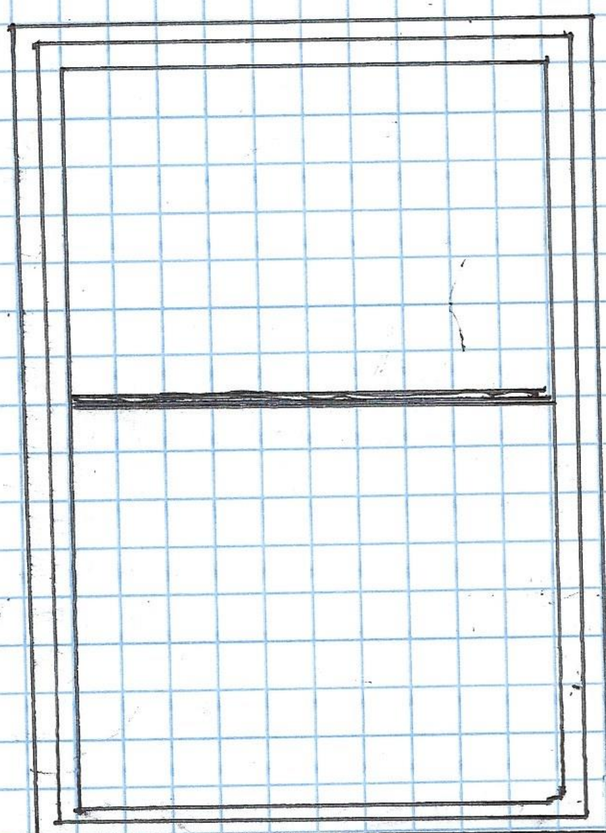


1/2 BATH = 1ST FLOOR REAR



- Double Hung unit
- Glass has been changed over the years.
  - no longer has muntin bars/ colored Bars on glass

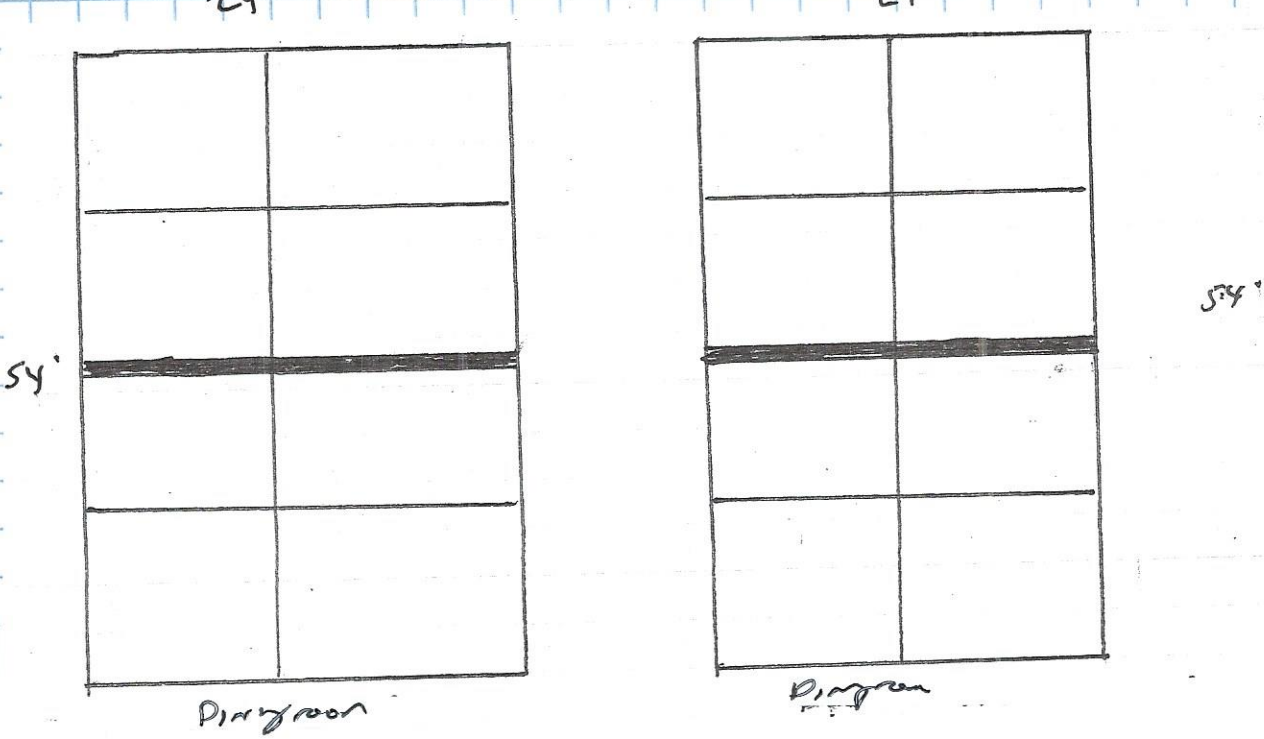
- This window is on 1st floor rear side D
- Brick opening
- No storm window on exterior
- Security BARS will be taken off



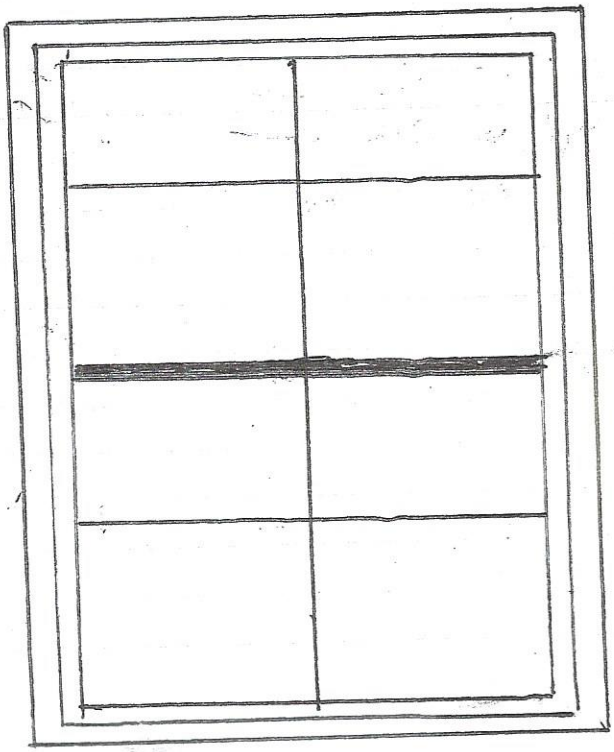
- Current glass has an obscure film stuck to glass to frost glass
- original would have had colored grids/ muntin Bars

- Brick mold varies on thickness of 1 1/4 - 1 3/4"
- SASH frame is the same as all others
- new units will have original style & colored grids put back on glass

Dining Room – 1st Floor
Rear Side C



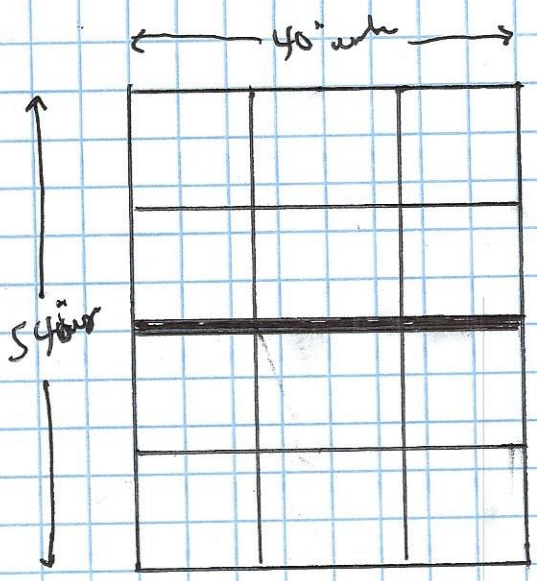
- These window units are in Brick openings
- Brick mold varies 1½ – 2" in dimension on perimeter
- colonial muntin bars laid on glass 3/4" wide
- Aluminum storm doors are broke & poor condition, missing parts



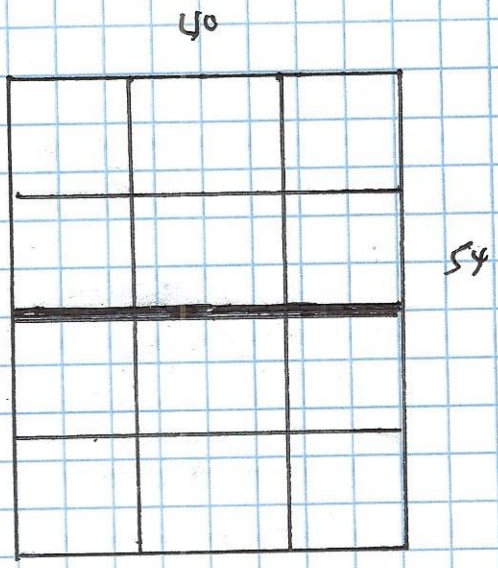
- New units will be within 3/8" of original size on all sides of frame
- Brick mold varies from 1¼" – 2" on sides
- Sash frames are the same as others.

- muntin bars are laid on glass
  - ↳ New units will have muntin bars on glass. 7/8" in width

FRONT UPPER BEDROOMS - SIDE A

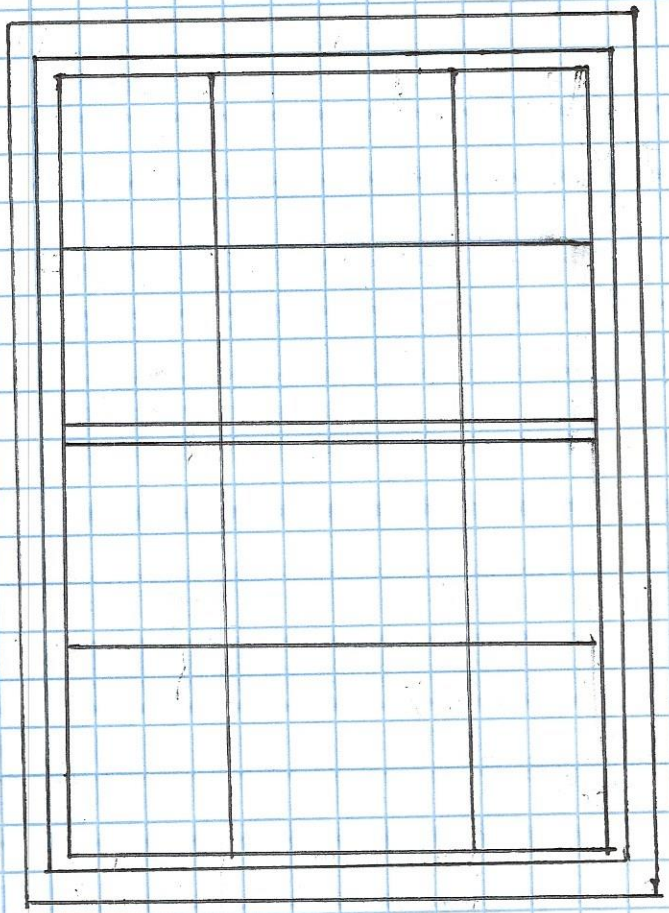


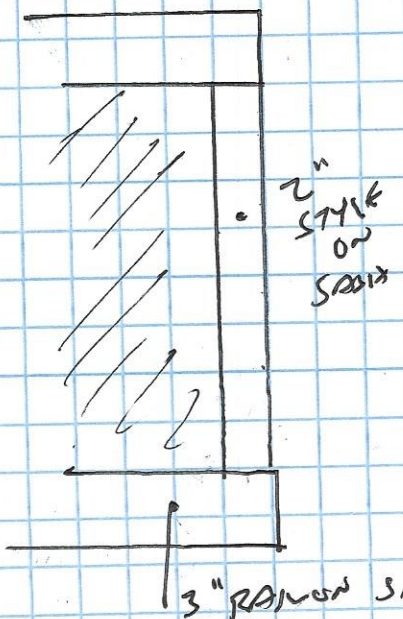
COLONIAL MUNTIN STYLE BARS ON UNITS 6/6

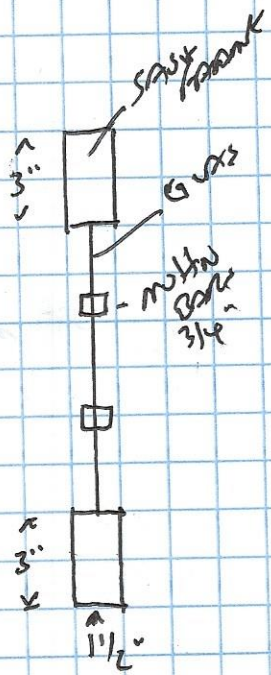


- DOUBLE HUNG 50/50
- BRICK MOLD IS WRAPPED WITH ALUMINUM TRIM COIL
- PERIMETER OF WINDOWS IS BUFFED W/ ALUMINUM SIDING
- WINDOW TRIM & SIDING ARE WHITE ALUMINUM

- NEW UNITS WILL BE WITHIN 3/8" OF SIZE ON ALL EDGES OF FRAME

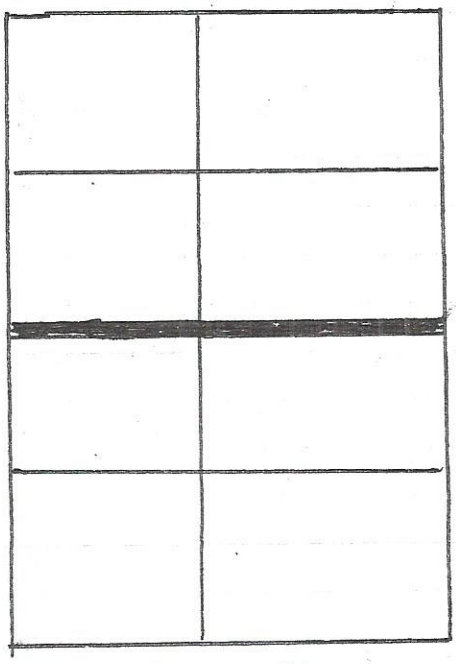






Upper Side D (on Right viewed from front)

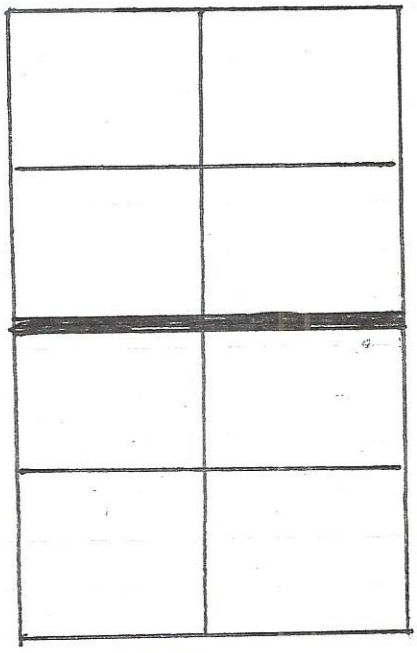
28"



54"

Bedroom 13

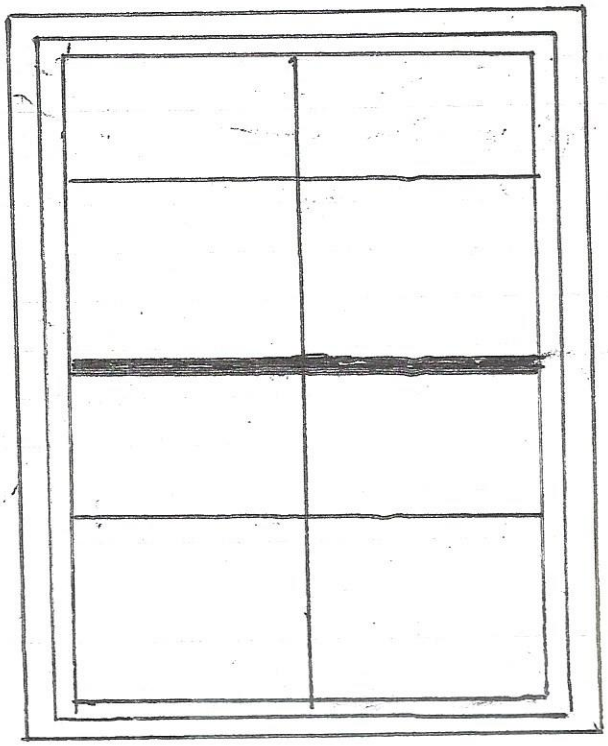
28"



54"

Stairs up

- These window units are in Brick openings
- Brick mold varies 1½ – 2" in dimension on perimeter
- Colonial muntin bars laid on glass 3/4" wide
- Aluminum storm doors are broke & poor condition, missing parts

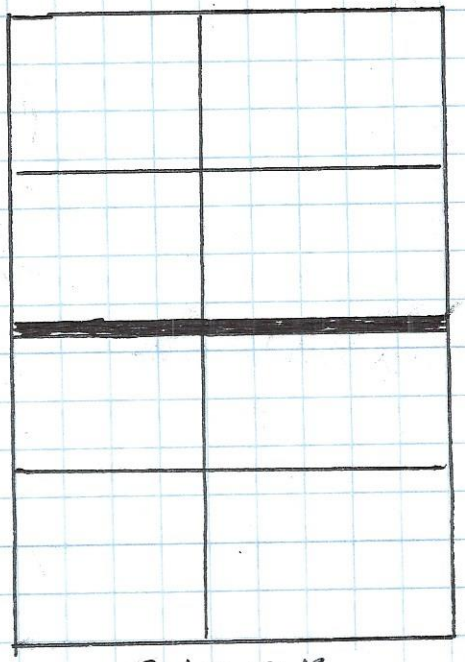


- New units will be within 3/8" of original size on all sides of frame
- Brick mold varies from 1¼" – 2" on sides
- Sash frames are the same as others.

- Muntin bars are laid on glass
  ↳ New units will have muntin bars on glass. 7/8" in width

(LEFT AS VIEWED FROM FRONT) SIDE B - UPPER

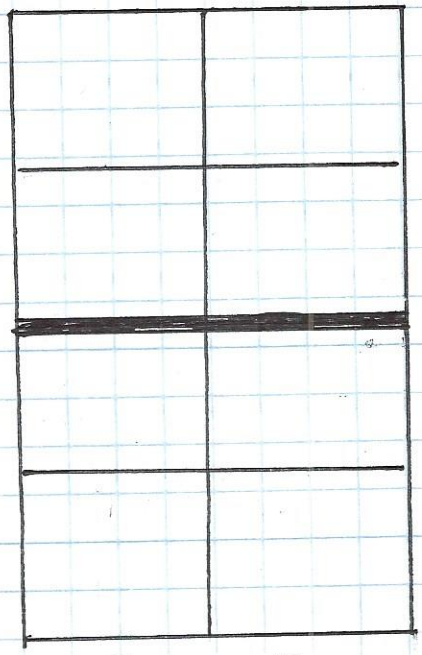
28"



54"

Bedroom 12

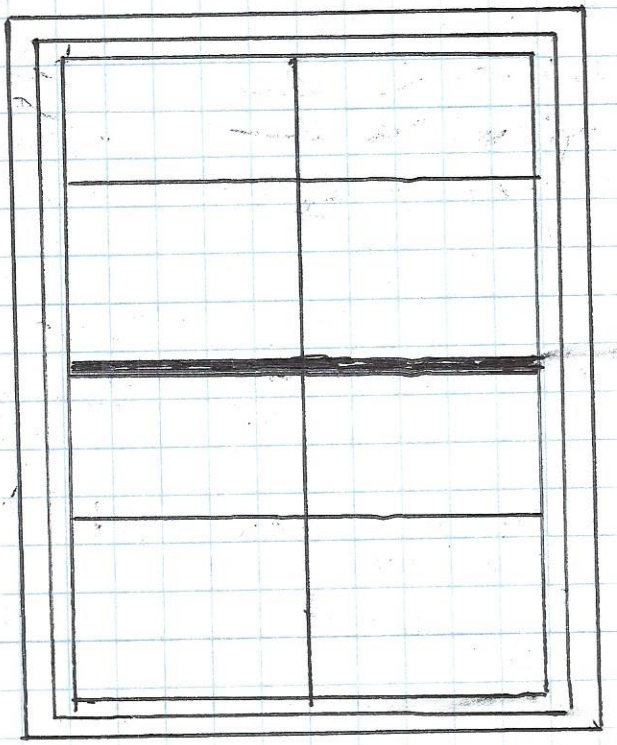
28"



54"

Bedroom 11

- These window units are in Brick openings
- Brick mold varies 1½ - 2" in dimension on perimeter
- Colonial muntin bars laid on glass 3/4" wide
- Aluminum storm doors are broke & poor condition, missing parts



- New units will be within 3/8" of original size on all sides of frame
- Brick mold varies from 1¼" - 2" on sides
- Sash frames are the same as others.

- Muntin bars are laid on glass
  - ↳ New units will have muntin bars on glass. 7/8" in width

REPLACING YOUR OLD WOOD WINDOWS WITH NEW WOOD WINDOWS IS NO LONGER OUT OF THE QUESTION.

ClassicFit® SERIES HistoricFit® SERIES

Wood Clad Replacements Windows by

QUAKER
RESIDENTIAL WINDOWS & DOORS

06/2019

Quaker's Classic Fit Series & Historic Fit Series, are a triumphant blend of imaginative and diverse designs teamed with an absolute demand for energy-efficiency. Truly these wood clad replacement windows are the perfect fit every time.

FEATURES AND OPTIONS

Aluminum clad exterior is essentially maintenance free and available in 33 "Quick-Pick" colors. Got a special exterior color in mind? Get any color in the spectrum with our custom color capabilities.

Warm, natural interior is courtesy of radiatta pine wood. Alder wood is optional. Ask about custom pre-finished painted interiors in any color. Also available: Primed interior ready-to-paint.

Insulated glass sustains a year-round barrier. Add one of our optional energy-efficient glazing packages to increase your window's overall effectiveness. For your home's private areas, ask for obscure glass. Include Tempered Glass where additional safety is required.

Operation is simple and convenient with smooth operating cam locks and one-touch tilt latches.

Tailor your windows with grids. Between-the-Glass, Applied for a Simulated Divided look or Removable Wood grids are all available.

Our Better-Vue™ fiberglass mesh screen is as good as any on the market. Superior insect protection. Excellent airflow. Great visibility.

Double Hung, Single Hung and Picture Window models. Also ask about Quaker's full line of matching wood clad patio doors.

For 70 years, we've promised to stand behind our products with one of the best warranties in the industry. Consult your dealer for complete warranty details.

Thermal Values	Hung Models	Picture Window Model
U-Value	0.27-0.32*	0.24-0.29*
Solar Heat Gain	0.12-0.43*	0.13-0.48*

*Thermal values given are a range achieved using a variety of Quaker's own energy-efficient Low-E glazing packages. The addition of optional grids may alter results slightly. Ask your dealer for details on which of Quaker's glazing packages best fits your home.

What's The Quaker Difference?

It's an attention to detail and manufacturing excellence that distinguishes Quaker from all other window and door companies in America.

It's found in the build of our windows where you'll find 40% more wood, 33% thicker glass, and aluminum that's 4 to 6 times thicker than some other popular brands.

It's represented by a standard of quality, engineering, craftsmanship and innovation embedded in every product we manufacture.

It's providing you with the **right solution** to your project, not just selling you windows and doors.

That's the Quaker Difference.

ClassicFit SERIES HistoricFit SERIES

QUAKER RESIDENTIAL WINDOWS & DOORS

www.quakerwindows.com

ENERGY STAR PARTNER

Get more information on Classic Fit and Historic Fit wood clad replacement windows from your authorized Quaker Window dealer:

CTI COMPANIES, LLC
5122 RICHFIELD ROAD
FLINT,MI 48506
Phone: 248-698-6900
Fax: 1-248-694-2001

Quotation:

Quote Name: 14935 Westwood - Wood Units
User Name: Ed Wenz

Quote #: SQLBQ000031_1
Cutoff Order Day - Thursday 12 P.M. CST

Quoted For: State Lead Program

US

Ship-To: CTI COMPANIES, LLC

Prepared By: Ed Wenz
wenz_ed@yahoo.com

Created On: 11/6/2020
Available To: 2/4/2021

Quote Information

Total Value:

Status: Open

Header:

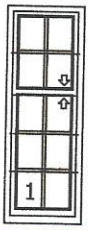
Terms:

Pricing:

All terms and conditions of this quote, including units, quantities, and accessories, are verified and accepted by the undersigned for purchase.

Accepted By _____ Date _____ Po# _____

Line	Label	Quantity	UOM	Part Number	Unit	Extended
1	Livingroom 2	2	EA	Quaker Unit		



** Viewed From Exterior **

Series: Historic Fit (No Pocket Board)

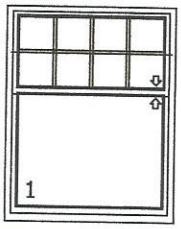
Exact Size: 23 5/8 X 65 3/4 **Outer Perimeter:** 23 5/8 X 65 3/4

Color: White,**Paint Type:**2604,**Interior Finish:**Natural Finish,
Glass: EnergyBasic (Dual Silver),Argon Filled,
Muntin:SDL-7/8" MBG-916 - EXT- CE-13993 / BG-5/8 / INT - 06017,
Hardware: Gold,**Sash:**Sweep Lock,
Jamb Liner: Beige,**Jamb Liner Cover Exterior:**Yes,**Lift Assist:**Pull Handle Bottom Only,
Screen: Full Screen,**Material:**BetterVue (TM),**Ship:**Screen With Product,
Depth:4 3/4" Frame Depth,**Ext. Casing**16040 Trim Kit,**Factory Apply Ext Casing:** Yes, **Ext. Subsill**16040 Trim Kit,**Factory Apply Ext Subsill:** Yes, **Perimeter Acc Color:**White,

Unit:1-Double Hung No Plough **Exact Size:** 23 5/8 X 65 3/4,**BarSet - From Bottom:**60_40,**NOT Egress,**
NFRC - U-Factor:0.31**SHGC:**0.26**VT:**0.44**AL:**≤0.3**CR:**55
Rating: R-50
Trim Kit Included For Sill Only
Top Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass
Bottom Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass

Overall Rating: DP-50
Sqft 10.79
Total Weight 52 lbs.
Perimeter Acc Lead Time 2.5 Working Days - Exterior Casing 1.5 Working Days - Exterior Subsill 1 Working Day
Applied Grid Lead Time 3 Working Days

Line	Label	Quantity	UOM	Part Number	Unit	Extended
2	Livingroom 2	1	EA	Quaker Unit		



** Viewed From Exterior **

Series: Historic Fit (No Pocket Board)

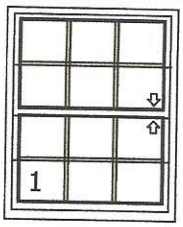
Exact Size: 51 5/8 X 65 3/4 **Outer Perimeter:** 51 5/8 X 65 3/4

Color: White,**Paint Type:**2604,**Interior Finish:**Natural Finish,
Glass: EnergyBasic (Dual Silver),Argon Filled,
Muntin:SDL-7/8" MBG-916 - EXT- CE-13993 / BG-5/8 / INT - 06017,
Hardware: Gold,**Sash:**Sweep Lock,
Jamb Liner: Beige,**Jamb Liner Cover Exterior:**Yes,**Lift Assist:**Pull Handle Bottom Only,
Screen: Full Screen,**Material:**BetterVue (TM),**Ship:**Screen With Product,
Depth:4 3/4" Frame Depth,**Ext. Casing**16040 Trim Kit,**Factory Apply Ext Casing:** Yes, **Ext. Subsill**16040 Trim Kit,**Factory Apply Ext Subsill:** Yes, **Perimeter Acc Color:**White,

Unit:1-Double Hung No Plough **Exact Size:** 51 5/8 X 65 3/4,**BarSet - From Bottom:**60_40,**NOT Egress,**
NFRC - U-Factor:0.31**SHGC:**0.26**VT:**0.44**AL:**≤0.3**CR:**55
Rating: DP-20 *
Trim Kit Included For Sill Only
Top Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass
Bottom Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass

Overall Rating: DP-20
Sqft 23.57
Total Weight 101 lbs.
Perimeter Acc Lead Time 2.5 Working Days - Exterior Casing 1.5 Working Days - Exterior Subsill 1 Working Day
Applied Grid Lead Time 3 Working Days

Line	Label	Quantity	UOM	Part Number	Unit	Extended
3	Livingroom 7	2	EA	Quaker Unit		



** Viewed From Exterior **

Series: Historic Fit (No Pocket Board)

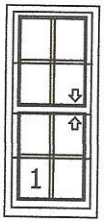
Exact Size: 43 5/8 X 53 3/4 **Outer Perimeter:** 43 5/8 X 53 3/4

Color: White,**Paint Type:**2604,**Interior Finish:**Natural Finish,
Glass: EnergyBasic (Dual Silver),Argon Filled,
Muntin:SDL-7/8" MBG-916 - EXT- CE-13993 / BG-5/8 / INT - 06017,
Hardware: Gold,**Sash:**Sweep Lock,
Jamb Liner: Beige,**Jamb Liner Cover Exterior:**Yes,**Lift Assist:**Pull Handle Bottom Only,
Screen: Full Screen,**Material:**BetterVue (TM),**Ship:**Screen With Product,
Depth:4 3/4" Frame Depth,**Ext. Casing**16040 Trim Kit,**Factory Apply Ext Casing:** Yes, **Ext. Subsill**16040 Trim Kit,**Factory Apply Ext Subsill:** Yes, **Perimeter Acc Color:**White,

Unit:1-Double Hung No Plough **Exact Size:** 43 5/8 X 53 3/4,**NOT Egress,**
NFRC - U-Factor:0.31**SHGC:**0.26**VT:**0.44**AL:**≤0.3**CR:**55
Rating: DP-40 *
Trim Kit Included For Sill Only
Top Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass
Bottom Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass

Overall Rating: DP-40
Sqft 16.28
Total Weight 73 lbs.
Perimeter Acc Lead Time 2.5 Working Days - Exterior Casing 1.5 Working Days - Exterior Subsill 1 Working Day
Applied Grid Lead Time 3 Working Days

4	Diningroom	2	EA	Quaker Unit



** Viewed From Exterior **

Series: Historic Fit (No Pocket Board)

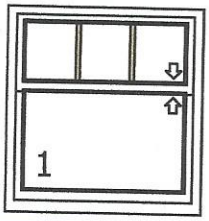
Exact Size: 23 5/8 X 53 1/2 **Outer Perimeter:** 23 5/8 X 53 1/2

Color: White,**Paint Type:**2604,**Interior Finish:**Natural Finish,
Glass: EnergyBasic (Dual Silver),Argon Filled,
Muntin:SDL-7/8" MBG-916 - EXT- CE-13993 / BG-5/8 / INT - 06017,
Hardware: Gold,**Sash:**Sweep Lock,
Jamb Liner: Beige,**Jamb Liner Cover Exterior:**Yes,**Lift Assist:**Pull Handle Bottom Only,
Screen: Full Screen,**Material:**BetterVue (TM),**Ship:**Screen With Product,
Depth:4 3/4" Frame Depth,**Ext. Casing**16040 Trim Kit,**Factory Apply Ext Casing:** Yes, **Ext. Subsill**16040 Trim Kit,**Factory Apply Ext Subsill:** Yes, **Perimeter Acc Color:**White,

Unit:1-Double Hung No Plough **Exact Size:** 23 5/8 X 53 1/2,**NOT Egress,**
NFRC - U-Factor:0.31**SHGC:**0.26**VT:**0.44**AL:**≤0.3**CR:**55
Rating: R-50
Trim Kit Included For Sill Only
Top Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass
Bottom Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass

Overall Rating: DP-50
Sqft 8.78
Total Weight 44 lbs.
Perimeter Acc Lead Time 2.5 Working Days - Exterior Casing 1.5 Working Days - Exterior Subsill 1 Working Day
Applied Grid Lead Time 3 Working Days

5	Kitchen	1	EA	Quaker Unit



** Viewed From Exterior **

Series: Historic Fit (No Pocket Board)

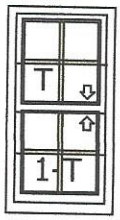
Exact Size: 39 5/8 X 41 3/8 **Outer Perimeter:** 39 5/8 X 41 3/8

Color: White,**Paint Type:**2604,**Interior Finish:**Natural Finish,
Glass: EnergyBasic (Dual Silver),Argon Filled,
Muntin:SDL-7/8" MBG-916 - EXT- CE-13993 / BG-5/8 / INT - 06017,
Hardware: Gold,**Sash:**Sweep Lock,
Jamb Liner: Beige,**Jamb Liner Cover Exterior:**Yes,**Lift Assist:**Pull Handle Bottom Only,
Screen: Full Screen,**Material:**BetterVue (TM),**Ship:**Screen With Product,
Depth:4 3/4" Frame Depth,**Ext. Casing**16040 Trim Kit,**Factory Apply Ext Casing:** Yes, **Ext. Subsill**16040 Trim Kit,**Factory Apply Ext Subsill:** Yes, **Perimeter Acc Color:**White,

Unit:1-Double Hung No Plough **Exact Size:** 39 5/8 X 41 3/8,**BarSet - From Bottom:**60_40,**NOT Egress,**
NFRC - U-Factor:0.31**SHGC:**0.26**VT:**0.44**AL:**≤0.3**CR:**55
Rating: R-50 *
Trim Kit Included For Sill Only
Top Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass
Bottom Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass

Overall Rating: DP-50
Sqft 11.39
Total Weight 54 lbs.
Perimeter Acc Lead Time 2.5 Working Days - Exterior Casing 1.5 Working Days - Exterior Subsill 1 Working Day
Applied Grid Lead Time 3 Working Days

6 1st Flr Bath 1 EA Quaker Unit



** Viewed From Exterior **

Series: Historic Fit (No Pocket Board)

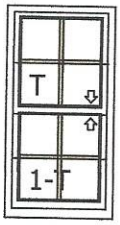
Exact Size: 23 5/8 X 45 3/4 **Outer Perimeter:** 23 5/8 X 45 3/4

Color: White,**Paint Type:**2604,**Interior Finish:**Natural Finish,
Glass: LowE/Obscure (Dual Silver+Obscure),Tempered,Argon Filled,
Muntin:SDL-7/8" MBG-916 - EXT- CE-13993 / BG-5/8 / INT - 06017,
Hardware: Gold,**Sash:**Sweep Lock,
Jamb Liner: Beige,**Jamb Liner Cover Exterior:**Yes,**Lift Assist:**Pull Handle Bottom Only,
Screen: Full Screen,**Material:**BetterVue (TM),**Ship:**Screen With Product,
Depth:4 3/4" Frame Depth,**Ext. Casing**16040 Trim Kit,**Factory Apply Ext Casing:** Yes, **Ext. Subsill**16040 Trim Kit,**Factory Apply Ext Subsill:** Yes, **Perimeter Acc Color:**White,

Unit:1-Double Hung No Plough **Exact Size:** 23 5/8 X 45 3/4,**NOT Egress,**
NFRC - U-Factor:0.31**SHGC:**0.26**VT:**0.44**AL:**≤0.3**CR:**55
Rating: R-50
Trim Kit Included For Sill Only
Top Glass: Cardinal LowE 272 - DSB / Obscure - Pattern 62 - DSB,**Strength:**Tempered Glass
Bottom Glass: Cardinal LowE 272 - DSB / Obscure - Pattern 62 - DSB,**Strength:**Tempered Glass

Overall Rating: DP-50
Sqft 7.51
Total Weight 38 lbs.
Perimeter Acc Lead Time 2.5 Working Days - Exterior Casing 1.5 Working Days - Exterior Subsill 1 Working Day
Applied Grid Lead Time 3 Working Days

7 Stair Case 1 EA Quaker Unit



** Viewed From Exterior **

Series: Historic Fit (No Pocket Board)

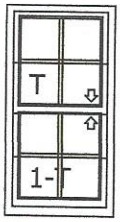
Exact Size: 27 5/8 X 53 3/4 **Outer Perimeter:** 27 5/8 X 53 3/4

Color: White,**Paint Type:**2604,**Interior Finish:**Natural Finish,
Glass: Custom,Argon Filled,
Muntin:SDL-7/8" MBG-916 - EXT- CE-13993 / BG-5/8 / INT - 06017,
Hardware: Gold,**Sash:**Sweep Lock,
Jamb Liner: Beige,**Jamb Liner Cover Exterior:**Yes,**Lift Assist:**Pull Handle Bottom Only,
Screen: Full Screen,**Material:**BetterVue (TM),**Ship:**Screen With Product,
Depth:4 3/4" Frame Depth,**Ext. Casing**16040 Trim Kit,**Factory Apply Ext Casing:** Yes, **Ext. Subsill**16040 Trim Kit,**Factory Apply Ext Subsill:** Yes, **Perimeter Acc Color:**White,

Unit:1-Double Hung No Plough **Exact Size:** 27 5/8 X 53 3/4,**NOT Egress,**
NFRC - U-Factor:0.31**SHGC:**0.26**VT:**0.44**AL:**≤0.3**CR:**55
Rating: R-50
Trim Kit Included For Sill Only
Top Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Tempered Glass
Bottom Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Tempered Glass

Overall Rating: DP-50
Sqft 10.31
Total Weight 50 lbs.
Perimeter Acc Lead Time 2.5 Working Days - Exterior Casing 1.5 Working Days - Exterior Subsill 1 Working Day
Applied Grid Lead Time 3 Working Days

8	Bth 2nd Flr	1	EA	Quaker Unit



** Viewed From Exterior **

Series: Historic Fit (No Pocket Board)

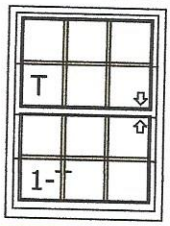
Exact Size: 27 5/8 X 53 1/2 **Outer Perimeter:** 27 5/8 X 53 1/2

Color: White,**Paint Type:**2604,**Interior Finish:**Natural Finish,
Glass: LowE/Obscure (Dual Silver+Obscure),Tempered,Argon Filled,
Muntin:SDL-7/8" MBG-916 - EXT- CE-13993 / BG-5/8 / INT - 06017,
Hardware: Gold,**Sash:**Sweep Lock,
Jamb Liner: Beige,**Jamb Liner Cover Exterior:**Yes,**Lift Assist:**Pull Handle Bottom Only,
Screen: Full Screen,**Material:**BetterVue (TM),**Ship:**Screen With Product,
Depth:4 3/4" Frame Depth,**Ext. Casing**16040 Trim Kit,**Factory Apply Ext Casing:** Yes, **Ext. Subsill**16040 Trim Kit,**Factory Apply Ext Subsill:** Yes, **Perimeter Acc Color:**White,

Unit:1-Double Hung No Plough **Exact Size:** 27 5/8 X 53 1/2,**NOT Egress,**
NFRC - U-Factor:0.31**SHGC:**0.26**VT:**0.44**AL:**≤0.3**CR:**55
Rating: R-50
Trim Kit Included For Sill Only
Top Glass: Cardinal LowE 272 - DSB / Obscure - Pattern 62 - DSB,**Strength:**Tempered Glass
Bottom Glass: Cardinal LowE 272 - DSB / Obscure - Pattern 62 - DSB,**Strength:**Tempered Glass

Overall Rating: DP-50
Sqft 10.26
Total Weight 50 lbs.
Perimeter Acc Lead Time 2.5 Working Days - Exterior Casing 1.5 Working Days - Exterior Subsill 1 Working Day
Applied Grid Lead Time 3 Working Days

9	2nd Flr Brms	3	EA	Quaker Unit



** Viewed From Exterior **

Series: Historic Fit (No Pocket Board)

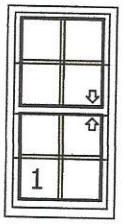
Exact Size: 39 5/8 X 53 1/4 **Outer Perimeter:** 39 5/8 X 53 1/4

Color: White,**Paint Type:**2604,**Interior Finish:**Natural Finish,
Glass: Custom,Argon Filled,
Muntin:SDL-7/8" MBG-916 - EXT- CE-13993 / BG-5/8 / INT - 06017,
Hardware: Gold,**Sash:**Sweep Lock,
Jamb Liner: Beige,**Jamb Liner Cover Exterior:**Yes,**Lift Assist:**Pull Handle Bottom Only,
Screen: Full Screen,**Material:**BetterVue (TM),**Ship:**Screen With Product,
Depth:4 3/4" Frame Depth,**Ext. Casing**16040 Trim Kit,**Factory Apply Ext Casing:** Yes, **Ext. Subsill**16040 Trim Kit,**Factory Apply Ext Subsill:** Yes, **Perimeter Acc Color:**White,

Unit:1-Double Hung No Plough **Exact Size:** 39 5/8 X 53 1/4,**NOT Egress,**
NFRC - U-Factor:0.31**SHGC:**0.26**VT:**0.44**AL:**≤0.3**CR:**55
Rating: R-50 *
Trim Kit Included For Sill Only
Top Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Tempered Glass
Bottom Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Tempered Glass

Overall Rating: DP-50
Sqft 14.65
Total Weight 67 lbs.
Perimeter Acc Lead Time 2.5 Working Days - Exterior Casing 1.5 Working Days - Exterior Subsill 1 Working Day
Applied Grid Lead Time 3 Working Days

10	2nd Flr Brms	3	EA	Quaker Unit



** Viewed From Exterior **

Series: Historic Fit (No Pocket Board)

Exact Size: 27 5/8 X 53 1/4 **Outer Perimeter:** 27 5/8 X 53 1/4

Color: White,**Paint Type:**2604,**Interior Finish:**Natural Finish,
Glass: EnergyBasic (Dual Silver),Argon Filled,
Muntin:SDL-7/8" MBG-916 - EXT- CE-13993 / BG-5/8 / INT - 06017,
Hardware: Gold,**Sash:**Sweep Lock,
Jamb Liner: Beige,**Jamb Liner Cover Exterior:**Yes,**Lift Assist:**Pull Handle Bottom Only,
Screen: Full Screen,**Material:**BetterVue (TM),**Ship:**Screen With Product,
Depth:4 3/4" Frame Depth,**Ext. Casing**16040 Trim Kit,**Factory Apply Ext Casing:** Yes, **Ext. Subsill**16040 Trim Kit,**Factory Apply Ext Subsill:** Yes, **Perimeter Acc Color:**White,

Unit:1-Double Hung No Plough **Exact Size:** 27 5/8 X 53 1/4,**NOT Egress,**
NFRC - U-Factor:0.31**SHGC:**0.26**VT:**0.44**AL:**≤0.3**CR:**55
Rating: R-50
Trim Kit Included For Sill Only
Top Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass
Bottom Glass: Cardinal LowE 272 - DSB / Clear - DSB,**Strength:**Annealed Glass

Overall Rating: DP-50
Sqft 10.22
Total Weight 49 lbs.
Perimeter Acc Lead Time 2.5 Working Days - Exterior Casing 1.5 Working Days - Exterior Subsill 1 Working Day
Applied Grid Lead Time 3 Working Days

11		1	EA	Order Items

Weighted Average Rating
U-Factor:0.31
SHGC:0.26
VT:0.44
Total Sqft : 209.35
Total Windows : 17
Total Drops : 34
Total Weight : 979

Project Data Sheet

The purpose of this document is to protect Quaker and your lien rights in the event of non-payment

New Construction ☐ **Replacement** ☐

1) Project Name:
Address:
City:
State:
Zip:
County of Property:

2) Ship To Information:
Address:
City:
State:
Zip:
Jobsite/Delivery Contact:
Phone:
Email:

3) Your Status in Project:
☐ Owner
☐ General Contractor
☐ Subcontractor
☐ Supplier to Sub-Contractor
☐ Supplier to G. C.
☐ Other (please describe):

4) Project Owner:
Address:
City:
State:
Zip:
Contact Name:
Phone:
Email:

5) General Contractor:
Address:
City:
State:
Zip:
Contact Name:
Phone:
Email:

6) Sub-Contractor:
Address:
City:
State:
Zip:
Contact Name:
Phone:
Email:

7) Order Terms
Payment Terms from Quaker:
P.O. Number:
Billing Cycle:
☐ Direct Payment
☐ Joint Check Agreement (please attach)

8) Project Description (select all that apply):
☐ Tax Exempt Organization ☐ Enterprise Zone
☐ Privately Owned ☐ Public Works
☐ Local, City or State ☐ Federal
Contract #:
Project #:
Exemption # (provide documentation):

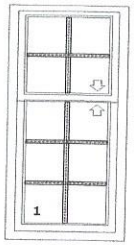
9) Project Notices:
Has the GC or owner Filed A notice that the project has commenced?
Yes ☐
No ☐

10) Payment Bond: ☐ Yes ☐ No
Payment bond #:
Bonding Company:
City:
State:
Contact Name:
Phone:
Email:

11) Additional Information
Architect:
Contact Name:
Phone:
Email:
Title Company:
Contact Name:
Phone:
Email:
Lender:
Contact Name:
Phone:
Email:

Terms:

- This quote is based on the products as listed. Customer must review quote and verify quantities, sizes, types, finishes, glazing, and adherence to specifications and job requirements and any relevant local or national codes.
- All prices are subject to change at any time if quantities, product, or other terms and conditions that are not part of the original quotation change or if the buyer requests extended delivery dates.
- This quote is an offer by Quaker Window Products Co. ("Quaker"), a Missouri corporation, to sell to the Customer the products described herein at the prices indicated, subject to the terms and conditions stated in this document, including the referenced Quaker warranty and the limitations of liability described therein. Unless otherwise agreed, this offer shall expire after the quote availability date listed on the quote. In order to accept such offer, and before Quaker begins to fabricate such products, Customer must:
  1. Review and approve this quote;
  2. Provide any additional details or information Quaker requires regarding the job or the Customer;
  3. If applicable, complete and submit a credit application subject to approval by Quaker's credit department; and
  4. If applicable, submit approved Shop Drawings which are incorporated into the order.
- Quaker's entry of a sales order will serve to acknowledge completion of these steps. Any purchase order or other document that Customer may use to indicate acceptance of this quote, shall be considered for Customer's internal purposes only, and notwithstanding any language to the contrary in any such document, any resulting order shall remain subject to the governing terms and conditions stated in this quote. Quaker expressly objects to, and does not accept, any conflicting, modified, or additional terms or conditions proposed by Customer unless such proposed terms and conditions are specifically approved in writing by Quaker's credit department, legal counsel, or an appropriate officer of the company.
- TAXES: Unless otherwise indicated, sales or use taxes are not included in this quote. It shall be Customer's responsibility to ensure payment of any applicable state or local sales or use or other taxes, and Customer shall indemnify Quaker against any claimed failure to pay such taxes when due.
- Any lead times provided are estimates only. An estimated delivery date will be established by Quaker and communicated to Customer once the sales order is entered.
- If you request any change to your order after placing your order, then you will be responsible for any actual or reasonably estimated costs incurred by Quaker in processing such change, and Quaker may require submittal of a change order documenting the requested changes.
- WARRANTY: The sale of the quoted products is subject to Quaker's Limited Warranty for Single-Family Dwellings dated 4/1/2019, which contains the relevant manufacturer's warranty and various limitations of liability, is hereby incorporated by reference, and is available at www.quakerwindows.com/warranty-information/. Customer will provide this warranty to the end user as appropriate.
- Undeliverable Product Storage Fee: If Customer is not willing or able to accept delivery of an order that is ready for shipment, then for any delivery delayed by more than 14 calendar days from the estimated delivery date, an undeliverable product storage fee of $350 per trailer per week will be added to the order, which may be invoiced at that time.
- Delivery & Detainage Fee: Customer is responsible for inspecting and unloading products associated with this order upon delivery. If offloading time is excessive, then Customer will be responsible for payment of detention fees in the amount of $150 per hour. If Customer's inspection reveals products damaged during shipment, such damage should be photographed at the time of delivery, and must be documented on the delivery ticket.
- Product rating information: Individual units greater than gateway size may have a reduced rating per Quaker's calculations based on AAMA 2502-07 Comparative Analysis Procedure for Window and Door Products. Overall Design Pressure of mulls/assemblies may be less than the computed values of individual units per Quaker's calculations based on AAMA 450-10 Voluntary Performance Rating Method for Mulled Fenestration Assemblies. Thermal ratings are based on NFRC test size.
- Any vertical or horizontal mulling system is designed for lateral wind loading only and does not provide structural down loading. Headers must be sized to allow for a maximum deflection of 1/8 of an inch. Please consult an architect or engineer for design requirements and building code compliance when combining multiple units together.
- FIELD TESTING: In order to be warranted for performance by Quaker, any field testing of QUAKER products must be conducted as specified in the above-described warranty.
- PRICE ADJUSTMENT: Quaker reserves the right to adjust the pricing described in this quote, or impose an additional surcharge, in the event of any extraordinary increase in any of its costs associated with manufacturing, supplying, or distributing the quoted products after the date of this quote, whether or not such increase arises out of an event of force majeure or a failure of presupposed conditions, upon notice to the Customer at any time prior to Quaker's entry of Customer's order regarding the adjustment or surcharge necessary to defray such increases.
- FORCE MAJEURE: Quaker will not be liable for any nonperformance, delay in performance, or damage that results from any cause beyond Quaker's reasonable control, including, without limitation, any: Act of God; act of the Customer; restraint of government, such as embargo or other trade restrictions or governmental regulations or demands (whether or not later proven to be invalid); fire; flood; accident; strike or other labor disturbance; machinery or equipment breakdown; plant shutdown or slowdown; war; riot; terrorist act; delay in transportation; delays of suppliers or carriers; or inability to obtain necessary labor, materials or manufacturing facilities at customary prices ("Force Majeure Events").



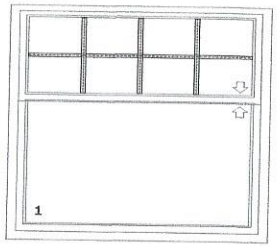
* T in the drawing denotes Tempered Glass

Line: 1
Quantity: 2
Color: White
Overall Dim: 23 5/8 x 65 3/4
RO: 24 3/8 x 66 1/4

Label: Livingroom 2
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	DP Rating	50
	Unit Dim	23 5/8" x 65 3/4"
	Meets Egress	No

Comments:



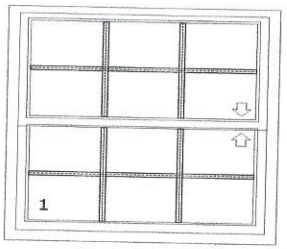
* T in the drawing denotes Tempered Glass

Line: 2
Quantity: 1
Color: White
Overall Dim: 51 5/8 x 65 3/4
RO: 52 3/8 x 66 1/4

Label: Livingroom 2
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 20
Factory Mulled: Yes

Unit	Option	Value
1	DP Rating	20
	Unit Dim	51 5/8" x 65 3/4"
	Meets Egress	No

Comments:



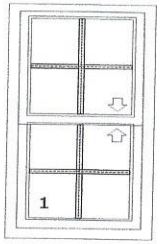
* T in the drawing denotes Tempered Glass

Line: 3
Quantity: 2
Color: White
Overall Dim: 43 5/8 x 53 3/4
RO: 44 3/8 x 54 1/4

Label: Livingroom 7
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 40
Factory Mulled: Yes

Unit	Option	Value
1	DP Rating	40
	Unit Dim	43 5/8" x 53 3/4"
	Meets Egress	No

Comments:



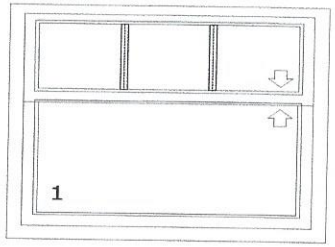
* T in the drawing denotes Tempered Glass

Line: 4
Quantity: 2
Color: White
Overall Dim: 23 5/8 x 53 1/2
RO: 24 3/8 x 54

Label: Diningroom
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	23 5/8" x 53 1/2"
	Meets Egress	No

Comments:



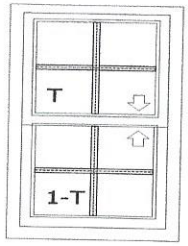
* T in the drawing denotes Tempered Glass

Line: 5
Quantity: 1
Color: White
Overall Dim: 39 5/8 x 41 3/8
RO: 40 3/8 x 41 7/8

Label: Kitchen
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	39 5/8" x 41 3/8"
	Meets Egress	No

Comments:



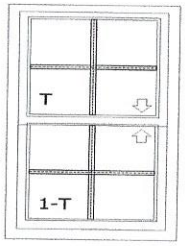
* T in the drawing denotes Tempered Glass

Line: 6
Quantity: 1
Color: White
Overall Dim: 23 5/8 x 45 3/4
RO: 24 3/8 x 46 1/4

Label: 1st Flr Bath
Series: Historic Fit (No Pocket Board)
Glass: LowE/Obscure (Dual Silver
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	23 5/8" x 45 3/4"
	Meets Egress	No

Comments:



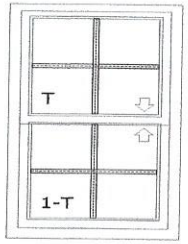
* T in the drawing denotes Tempered Glass

Line: 7
Quantity: 1
Color: White
Overall Dim: 27 5/8 x 53 3/4
RO: 28 3/8 x 54 1/4

Label: Stair Case
Series: Historic Fit (No Pocket Board)
Glass: Customize
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	27 5/8" x 53 3/4"
	Meets Egress	No

Comments:



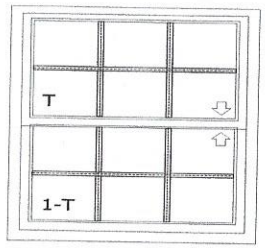
* T in the drawing denotes Tempered Glass

Line: 8
Quantity: 1
Color: White
Overall Dim: 27 5/8 x 53 1/2
RO: 28 3/8 x 54

Label: Bth 2nd Flr
Series: Historic Fit (No Pocket Board)
Glass: LowE/Obscure (Dual Silver
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	27 5/8" x 53 1/2"
	Meets Egress	No

Comments:



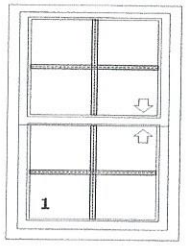
* T in the drawing denotes Tempered Glass

Line: 9
Quantity: 3
Color: White
Overall Dim: 39 5/8 x 53 1/4
RO: 40 3/8 x 53 3/4

Label: 2nd Flr Brms
Series: Historic Fit (No Pocket Board)
Glass: Customize
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	39 5/8" x 53 1/4"
	Meets Egress	No

Comments:



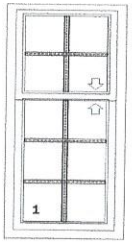
* T in the drawing denotes Tempered Glass

Line: 10
Quantity: 3
Color: White
Overall Dim: 27 5/8 x 53 1/4
RO: 28 3/8 x 53 3/4

Label: 2nd Flr Brms
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	27 5/8" x 53 1/4"
	Meets Egress	No

Comments:



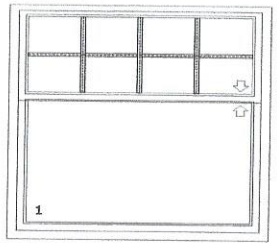
* T in the drawing denotes Tempered Glass

Line: 1
Quantity: 2
Color: White
Overall Dim: 23 5/8 x 65 3/4
RO: 24 3/8 x 66 1/4

Label: Livingroom 2
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	23 5/8" x 65 3/4"
	Meets Egress	No

Comments:



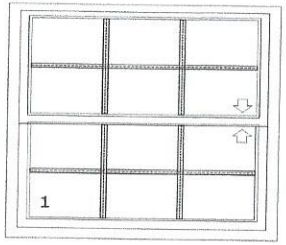
* T in the drawing denotes Tempered Glass

Line: 2
Quantity: 1
Color: White
Overall Dim: 51 5/8 x 65 3/4
RO: 52 3/8 x 66 1/4

Label: Livingroom 2
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 20
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	20
	Unit Dim	51 5/8" x 65 3/4"
	Meets Egress	No

Comments:



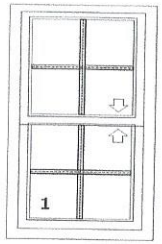
* T in the drawing denotes Tempered Glass

Line: 3
Quantity: 2
Color: White
Overall Dim: 43 5/8 x 53 3/4
RO: 44 3/8 x 54 1/4

Label: Livingroom 7
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 40
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	40
	Unit Dim	43 5/8" x 53 3/4"
	Meets Egress	No

Comments:



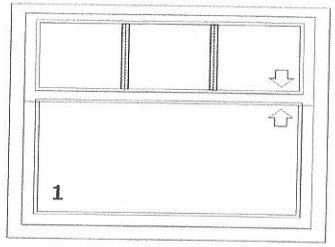
* T in the drawing denotes Tempered Glass

Line: 4
Quantity: 2
Color: White
Overall Dim: 23 5/8 x 53 1/2
RO: 24 3/8 x 54

Label: Diningroom
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	23 5/8" x 53 1/2"
	Meets Egress	No

Comments:



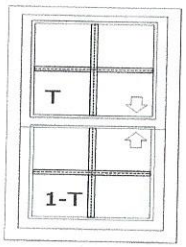
* T in the drawing denotes Tempered Glass

Line: 5
Quantity: 1
Color: White
Overall Dim: 39 5/8 x 41 3/8
RO: 40 3/8 x 41 7/8

Label: Kitchen
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	39 5/8" x 41 3/8"
	Meets Egress	No

Comments:



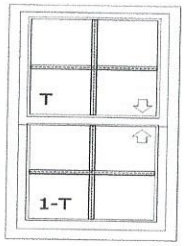
* T in the drawing denotes Tempered Glass

Line: 6
Quantity: 1
Color: White
Overall Dim: 23 5/8 x 45 3/4
RO: 24 3/8 x 46 1/4

Label: 1st Flr Bath
Series: Historic Fit (No Pocket Board)
Glass: LowE/Obscure (Dual Silver
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	23 5/8" x 45 3/4"
	Meets Egress	No

Comments:



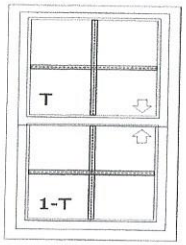
* T in the drawing denotes Tempered Glass

Line: 7
Quantity: 1
Color: White
Overall Dim: 27 5/8 x 53 3/4
RO: 28 3/8 x 54 1/4

Label: Stair Case
Series: Historic Fit (No Pocket Board)
Glass: Customize
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	DP Rating	50
	Unit Dim	27 5/8" x 53 3/4"
	Meets Egress	No

Comments:



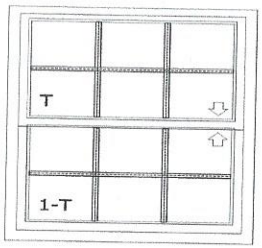
* T in the drawing denotes Tempered Glass

Line: 8
Quantity: 1
Color: White
Overall Dim: 27 5/8 x 53 1/2
RO: 28 3/8 x 54

Label: Bth 2nd Flr
Series: Historic Fit (No Pocket Board)
Glass: LowE/Obscure (Dual Silver
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	DP Rating	50
	Unit Dim	27 5/8" x 53 1/2"
	Meets Egress	No

Comments:



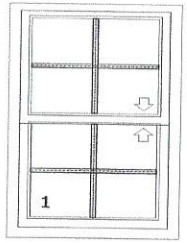
* T in the drawing denotes Tempered Glass

Line: 9
Quantity: 3
Color: White
Overall Dim: 39 5/8 x 53 1/4
RO: 40 3/8 x 53 3/4

Label: 2nd Flr Brms
Series: Historic Fit (No Pocket Board)
Glass: Customize
DP Rating: 50
Factory Mulled: Yes

Unit	Option	Value
1	DP Rating	50
	Unit Dim	39 5/8" x 53 1/4"
	Meets Egress	No

Comments:



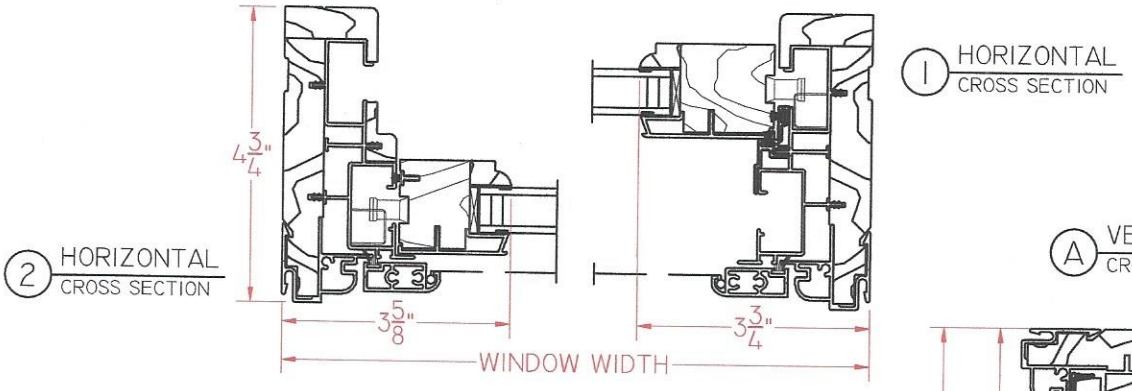
* T in the drawing denotes Tempered Glass

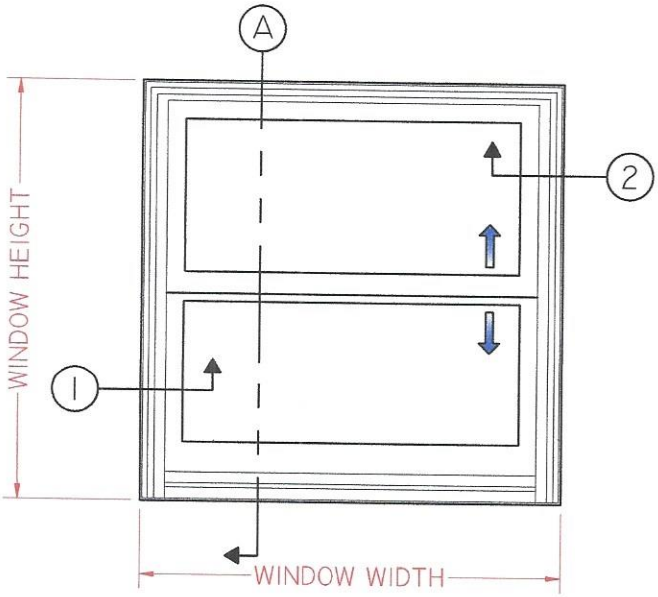
Line: 10
Quantity: 3
Color: White
Overall Dim: 27 5/8 x 53 1/4
RO: 28 3/8 x 53 3/4

Label: 2nd Flr Brms
Series: Historic Fit (No Pocket Board)
Glass: EnergyBasic (Dual Silver)
DP Rating: 50
Factory Mulled: Yes

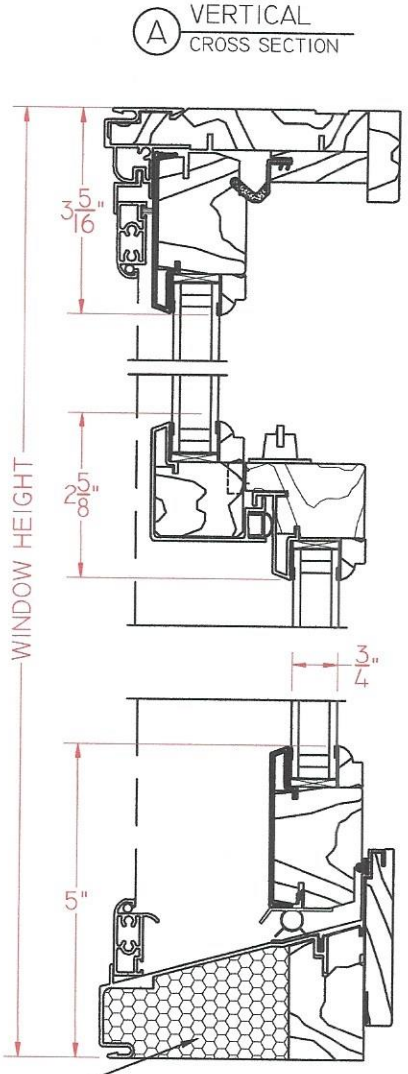
Unit	Option	Value
1	**DP Rating**	50
	Unit Dim	27 5/8" x 53 1/4"
	Meets Egress	No

Comments:





ELEVATION SCALE 3/4" = 1'-0"



INSTALLER TO FILL CAVITY WITH FIBERGLASS INSULATION BEFORE SETTING WINDOW

HISTORIC DOUBLE HUNG 01-19-2016 VERSION 3.0

SCALE 1:3

CTI Contractor Services, LLC

> Building, Lead, Asbestos, Mold <

8756 Trenton Dr – White Lake, MI 48386

Office: 248-698-6900 ~ fax: 248-694-2001 ~ Wenz_Ed@yahoo.com

Lic# 2102213550

January 17, 2021

To: City of Detroit Historical District Commission

Re: 14935 Westwood – Detroit

Here are the questions answered as asked in email dated 12/11/2020.

- There are essentially two things the commission will consider:
  - 1. Is removal of historic age windows warranted (you are making the case that yes, because of lead)
    - The windows are the main reason the children of the home are being poisoned.
    - To just do a paint and or repair will lead the lead in place and cause lead hazards to be preset in a short time with the friction and impact on the wood windows.
  - 2. How closely does the proposed replacement window match the existing windows / in other words, is it an appropriate match?
    - The new units with the high quality Historical Retro Fit by Quaker Windows will allow us to be within 3/8" of an inch in similar size.
    - With these new units the colonial muntin bars will also be within 1/8" of width of size

We will need comparison drawings that existing measurements compared with that of the proposed windows. The window manufacturer should be able to provide cutsheets, but we will need to make an "apples to apples" comparison with the existing windows.

- I have attached drawings of what is existing on the home. The other attachment is showing the new units cut away.

Finally, we will need a detailed scope of work that shows exactly what is being replaced with what, to include:

- We have attached a detailed copy of the scope of work that State of Michigan Lead Program has written up to remove the lead hazards. They changed the scope of work from vinyl windows to wood units to meet the historical requirements.

Written info / Narrative for Commission – submit this as pdf or word document, not in email:

1. Description of existing conditions (including height, style, materials and design – basic info as outlined in power point- ok… how many windows tested positive for lead?)

- I have attached a pack of drawings to show the existing sizes of the windows with height, width, colonial grid / muntin bar design, thickness of the sash components.
- All windows were found to be lead and a lead hazards. The units are a friction and impact hazards, along with the heavy deterioration / flaking of the paint.
- If the old units are left in place the sashes will be allowed to continue to emit lead dust and continue to poison the children of the home. Along with the adults. Lead poisoning is a highly dangerous effect on both children and adults casing sever damage lasting forever.

2. Description of project (including an explanation as to why replacement- rather than repair- of existing and/ or construction of new is required)

- The replacement is the only 100% assurance that the lead will be removed, and the lead hazard s will not return to poison these children or others in the future.
- The repairs of the existing will not remove the lead, even if the paint is stripped. It has been shown that the lead leaches into the wood and will leach back into new painted units.
    - Replacement is the best way to ensure a lead safe home.
    - The Historical Retro fit unit from Quaker is the best unit to assure the best fit and similar look to not lose the appearance of the existing windows.
- The front door will be cut down on edges to remove the paint and re painted to ensure no edges will hit or cause friction or impact to cause lead dust to come out and effect the residents.
- By installing the new shas & frame the lead will not come back out.

3. Detailed scope of proposed work for approval (formatted as bulleted list (including height, style, materials and design
    - The drawing has been submitted as to the details of all the existing windows.
    - The new units will match sizes within approx. 3/8” on all edges.
    - The colonial muntin bars will be withing 1/8” in size of existing.
    - The details scope of work as set forth by the State of Michigan Lead Program has been attached

We have also attached a copy of the full Lead Inspection & Risk Assessment for the home showing all the hazards and main lead hazards are the windows. The state and contractor both feel this is the best solution to make the home lead safe and not poison any more children in the home.

Thanks

Mon 2/15/2021 4:37 PM

Edward Wenz <wenz_ed@yahoo.com>

RE: [EXTERNAL] Re: DETROIT HDC 2-17-21

To Brendan Cagney; Brendan Cagney

Follow up. Completed on Monday, February 15, 2021.
You replied to this message on 2/15/2021 4:47 PM.
If there are problems with how this message is displayed, click here to view it in a web browser.

The state has spec'd to cover over the existing aluminum with new aluminum. Not to remove any of the existing aluminum trim on soffit & fascia, but to cover over the lead paint hazard with new as an "Enclosure" to seal all the lead paint hazard and lead hazard dust that is being created. From what they tested, the lead paint was put on the aluminum as what is on the lead hazard report.

The home has aluminum trim & aluminum siding existing. It's original and no old siding below (just fiber board sheathing) is what has been relayed to us.

They cannot take any of that down. This is why they spec'd the work as such.

Let me know if you need anything else.

Thanks

Sent from Yahoo Mail on Android

PART 4- BID FORM

NAME OF BIDDER_____

ADDRESS_____

TELEPHONE/FAX NUMBERS_____

Bids due in RFC office by
2:00 P.M. on 31-January-2020

It is your responsibility to get sealed bids to this office by listed time.

4.1 PROJECT NAME/LOCATION

Site: DEMARYST GARWARD
14935 WESTWOOD STREET
DETROIT, MI 48223
313-896-6008

4.2 REGIONAL FIELD CONSULTANT SOLICITING BIDS (with mail to address):

William Smallman
Healthy Homes Section
235 S. Grand Ave., 4th Floor, Ste 410
P.O. Box 30037
Lansing, MI 48909
517-335-9390 Office
313-236-9081 Cell ***Date written: 11/05/2019***

4.3 COST ESTIMATES

All costs include, but are not limited to, labor, materials, equipment, non-hazardous waste disposal in a solid waste landfill, mobilization, lodging, per diem, fees, insurance, etc. The Bidder shall provide a multiplier for each of the cost estimates in the table. The Bidder shall multiply the cost estimate by the multiplier and then by the quantity for each activity/service specified. Subsequently, the Bidder shall total the last column of the table to determine the Total Project Cost, and enter that number in the space provided in section 4.4.

Bidders acknowledge that if bid prices shown on bid document do not add up to the total price given, the lower of the prices will be used to determine the bid price. The state reserves the right to reject the bid.

4.4 COST ESTIMATE TABLE/SUMMARY OF WORK

A. The undersigned, having examined the Contract Documents prepared by the Regional Field Consultant and having visited the site(s) and examined the conditions affecting the Work, hereby propose and agree to furnish all labor, materials, and equipment to perform operations necessary to complete the work as specified by said Contract Documents for the stipulated project cost of:

COMPONENT	LOCATION	*REMEDIATION TASK DESCRIPTION*	LUMP SUM
Carbon Monoxide Detector	One each level and 1 in cellar	***Install Underwriters Laboratory (UL)-certified, Carbon Monoxide Detector. Install near sleeping areas. Install at recommended height per manufacturer. Do not install on ceiling. Test detector upon installation. Allowance of $47 per Detector (product and installation).***	**$47.00 per detector**
Smoke Detector	One each level and 1 in cellar	***Furnish & install sealed smoke detector with 10-year lithium battery. Replace old existing smoke detectors with new detectors. Do not install near heating or cooling ducts. Test alarm upon installation. Allowance of $51 per Detector (product and installation).***	**$51 per detector**
Fire Extinguisher	One	*Install fire extinguisher in kitchen away from stove at recommended height per manufacturer.* ***Allowance of $51 per unit (product and installation).***	**$51 per unit**
		Plumbing	
KITCHEN FAUCET AND SHUTOFFS	Kitchen 5	Remove the existing faucet/fixture and replace with new. Install lead free Delta Kitchen Sink Faucet model numbers 100-DST or 100-BH-DST for non-sprayer locations. Or model numbers 400-DST, 400-BH-DST, 400-DST-A or 400-DST-L for sprayer equipped locations. Include all required fixture connections/accessories up to and including the shut off valves (required). • **Components to be from Lead Free product lines or non- metal.** (Must meet minimum NSF/ANSI 61-G and NSF/ANSI 372). • **Faucet documents/paperwork to be presented to RFC for verification of proper components.** • **All aerator keys/wrenches to be provided to homeowner.** • **Contractor responsible to ensure proper drainage as of job completion-verify before starting work and notify RFC if problems.**	**$450 Per Faucet**
BATHROOM FAUCET AND SHUTOFFS	Bathroom 6 and 10	Remove the existing faucet/fixture and replace with new. Install new lead free Delta Lavatory Faucet model B2596LF or B3596LF2 (Windemere Collection). Include all required fixture connections/accessories such as new pop up assembly (if needed) and shut off valves (required). • **Components to be from Lead Free product lines or non- metal.** (Must meet minimum NSF/ANSI 61-G and NSF/ANSI 372). • **Faucet documents/paperwork to be presented to RFC for verification of proper components.** • **All aerator keys/wrenches to be provided to homeowner.** • **Contractor responsible to ensure proper drainage as of job completion-verify before starting work and notify RFC if problems.**	**$450 Per Faucet**
		Interior	
LEAD IN DUST	House Int. Complete	Clean entire house for the presence of lead dust. Use the HEPA vacuum and wet wash process.	

COMPONENT	LOCATION	*REMEDIATION TASK DESCRIPTION*	LUMP SUM
WINDOW SASH, JAMB, STOP, PARTING BEAD AND WELL / TROUGH	Living Room 2, Dining Room 3, Kitchen 5, Bathroom 6, Living Room 7, Stairs 8, Bathroom 10, Bedroom 11, Bedroom 12 and Bedroom 13	Remove and dispose of existing window. Replace window(s) with new vinyl, thermopane, double hung replacement window unit(s) as manufactured by Simonton or approved equal. Replacement Windows MUST have Energy Star Rating *(low E)*. Provide new full snap in screen or half screen unit (s) per Regional Field Consultant. Reuse old stops if in good condition or provide new stops, if necessary. Wrap all exterior casings and exterior trim in aluminum coil stock and ensure that water sheds properly off of sill. If windows are currently wrapped in aluminum coil stock, remove as necessary and wrap all exterior casings and exterior trim in aluminum coil stock and ensure that water sheds properly off of sill. Fir out as required with #2 pine with minimum of 1/2"' reveal. Include hardware, window lock, trim to match existing, drip cap, etc. Make necessary interior and exterior wall repairs. Caulk all seams. Caulk must be low VOC, butyl-based or silicone caulk (no latex). Install fiberglass batt insulation in any remaining gap greater than 3/8". Contractor to provide homeowner with window warranty. Wet scrape and fully apply Eco-Bond Lead Defender, or equivalent, with Bitrex (ie, LBC or equal) or approved taste-aversion product, to all remaining INTERIOR painted wood window structures (RFC may utilize or delete underlined section). Use tempered safety glass or obscured glass where necessary. Ensure all exterior, horizontal surfaces are free of visual dust, paint chips and debris, including but not limited to roofs and eaves troughs. *If window bars are present, they should be removed and shall not be replaced. They should be provided to the homeowner after the work is completed.* Contractor to provide property owner with window warranty information as provided by manufacturer.	
DOOR, DOOR STILE AND DOOR STOP	Entry 1 (A side), Dining Room 3 (C side) and Stair 14 (D side)	Remove and dispose of existing door. Furnish and install new steel OR fiberglass equivalent, pre-hung, insulated door with-- *6-panel, 9-light, sunburst 4-panel, ½ glass, or peep site)* --Verify style with owner. Be manufactured by Perma-Door, Pease, Peachtree, Stanley or equal. Door MUST have Energy Star rating *(low E)*. Installation to include new weather stripping, passage set with lock and threshold for a complete installation. Replace existing casing and trim where missing and/or damaged. Wrap exterior casing in aluminum. Ensure threshold is supported. Shimming should occur every 16". All new and existing materials to include primer coat on new surfaces (low VOC). Install new lockset as manufactured by Schlage or approved equal. Security lock (deadbolt) shall have hardened steel insert, trim ring and wood frame re-enforcer with concealed hardened steel roller. Enclose any exposed original door components with aluminum or spot wet scrape and fully encapsulate. Provide for a secure installation and smooth operation. Lock key to be keyed to house locks. If security door is present, reinstallation is to be done by homeowner. Remove alarm hardware, if present. Provide to homeowner for reinstallation.	

COMPONENT	LOCATION	*REMEDIATION TASK DESCRIPTION*	LUMP SUM
CEILING, CROWN MOLDING AND CORNER WALL CASING	Enclosed Porch 4	Remove existing crown molding. Replace all deteriorated wood as needed to properly secure soffit system. Install new solid vinyl soffit system to completely enclose the ceiling. Furnish and install new aluminum coil stock, white in color, fastened securely to structure on all wood surfaces to ensure maintenance-free components Caulk all trim joints to match trim color using low VOC "Quad" caulk or silicone caulk (no latex).	
CLOSET SHELF AND SHELF BRACKET	Kitchen 5	Remove and properly dispose of the existing shelf. Install new shelf mechanically fastened caulked and sealed. Then using lead safe work practices, properly prepare remaining shelf surfaces to be stabilized. Wet scrape and fully apply Eco-Bond Lead Defender, or equivalent, with Bitrex (ie, LBC or equal) or approved taste-aversion product, to components.	
DOOR CASING	Kitchen 5	Using lead safe work practices, properly prepare surfaces to be stabilized. Wet scrape and fully apply Eco-Bond Lead Defender, or equivalent, with Bitrex (ie, LBC or equal) or approved taste-aversion product, to components.	
WALL CASING	Bathroom 6	Using lead safe work practices, properly prepare surfaces to be stabilized. Wet scrape and fully apply Eco-Bond Lead Defender, or equivalent, with Bitrex (ie, LBC or equal) or approved taste-aversion product, to components.	
Exterior			
ALL SOFFITS AND FRIEZE BOARDS	Exterior House (All Sides)	Remove existing aluminum then replace all deteriorated wood as needed to properly secure soffit system. Scrape all areas with peeling paint. Install new solid vinyl soffit system to completely enclose the soffit. Wrap all fascias and frieze boards with white aluminum. Encapsulate fascia/soffit where vented. Minimize face nailing.	
PORCH BEAM	Exterior House (C side)	Remove existing gutter and aluminum then enclose porch beam with white aluminum trim. Caulk all seams with low VOC "Quad" caulk (no latex).	
ATTIC VENT	Exterior House (All sides)	Using lead safe work practices, properly prepare surfaces to be stabilized. Wet scrape and fully apply Eco-Bond Lead Defender, or equivalent, with Bitrex (ie, LBC or equal) or approved taste-aversion product, to components.	
WINDOW SHUTTERS	Exterior House (A side)	Remove existing window shutter. Replace with equivalent window shutters mechanically fastened. Color to be selected by homeowner.	
GARAGE DOOR CASING	Exterior House (A side)	Remove existing aluminum then enclose garage door casing with white aluminum trim. Caulk all seams with low VOC "Quad" caulk (no latex).	
REMEMBER		• Contactor is responsible for ALL required permitting-required permits which may vary by location. • All products used to be installed and/or applied per manufacturer's written specification and recommendations including application temperatures and methods. • Ensure all exterior, horizontal surfaces are free of visual dust, paint chips and debris, including but not limited to roofs and eaves troughs. • Patch (X) testing is required prior to the application of all encapsulates and paints to ensure proper adhesion. Locations should be identifiable to Clearance Examiner upon request. Photographs are	

COMPONENT	LOCATION	*REMEDIATION TASK DESCRIPTION*	LUMP SUM
		acceptable. • All encapsulate products must contain Bitrex or other approved taste aversion product • Surfaces under/behind wrappings and enclosures must be labeled.	

TOTAL PROJECT COST $

_____ **Dollars***(Sum of Project Cost Column)*

Approximate Project Start Date: _____ ***End Date:*** _____

4.5 BIDDING PROCEDURES

A **All bids must be submitted (ONLY SECTION 00100, PART 4), in triplicate, on the proposal forms provided as part of the bidding documents and in accordance with the Instructions to Bidders. Provide a complete list of subcontractors (one per discipline) as indicated on the Bid Forms. Listing two per discipline will be grounds for disqualification. The following items MUST be included in the bid package in order for the bid to be accepted:**

1. **Triplicate copies of Section 00100, PART 4 only.**
2. **Corporate Resolution- One copy may be submitted with entire bid packet**
3. **Product Data – One copy may be submitted with entire bid packet or if data set was previously submitted to and approved by HHS, product data is not required for each project bid.**
4. **Insurance Certificate (must be submitted after project award)**
5. **Project Dates**

Contractor acknowledges receipt of one copy of the master Healthy Homes Section, Lead Safe Home Program Project Specifications document, including all contract language and acknowledges that this document in its entirety will not be distributed at each project walkthrough. Contractors will receive only the Section 00100, Part 4 Bid Document, detailing the scope of work and bidding procedures, for each project in which a bid is solicited. For contract language-related questions, each contractor shall refer to their master copy of the HHS Lead Safe Home Program Project Specifications.

B. Bids shall be submitted in envelopes with the following identified on the face:

1. Name and address of Regional Field Consultant identified in 1.2.
2. Project name.
3. Date and Time of bid opening
4. Notation BID ENCLOSED

C. A bid is invalid if is has not been deposited at a designated location prior to the time and date for Receipt of bids indicated in the Instructions to Bidders or prior to any extension thereof issued by Addendum to Bidders. Bids received after the time and date for Receipt of Bids will be unopened.

D. No Bidder shall modify, withdraw, or cancel a bid thereof for 60 days after the time designated for the Receipt of Bids.

E. Prior to the Receipt of Bids, Addenda will be FAXED, mailed, or delivered to each person or firm recorded by the Regional Field Consultant as having received the Bidding Documents and will be available for inspection wherever the Bidding Documents are kept available for that purpose. No Addendum will be issued later than three days prior to the date for the Receipt of Bids except an Addendum, if necessary, postponing the date for Receipt of Bids or withdrawing the Request for Bids. Each Bidder shall ascertain prior to submitting a Bid that he/she has received all Addenda issued and shall acknowledge their receipt in their Bid.

F. Bid awards will not be considered final by any contractor until the purchase order is generated by the State of Michigan, Department of Community Health and received by the appropriate contractor. Verbal and written bid awards presented by the Regional Field Consultants are temporary pending approval by the State of Michigan, Department of Community Health. The purchase order shall serve as the official bid award and project contract.

- **Should a contractor have any one project outstanding which exceeds 90 calendar days past the date of issuance of the purchase order, the MDHHS reserves the right to cease award of additional projects to this specified contractor until this outstanding project is complete, except in the case of holdover of exterior work from winter months.**

G. Awarded contractor will provide notice of project start and completion dates to the State of Michigan, Department of Community Health on the prescribed project notification form as per Section 5472 of the Michigan Lead Abatement Act.

H. Awarded contractor will submit appropriate insurance certificates verifying general liability, lead-specific liability and worker's compensation coverage. The certificate must list the homeowner, the Michigan Department of Community Health and the Regional Field Consultant as additionally insured, as well as the site address. The certificate must be submitted no later than 15 business days after project award or the Michigan Department of Community Health reserves the right to reject the bid and award to the next qualified bidder.

I. All Bids must be signed as follows:

1 Corporations: signature of official shall be accompanied by a certified copy of the resolution of the Board of Directors authorizing the individuals signing to bind the corporation.

2. Partnerships: signature of one partner shall be accompanied by a certified copy of the Power of Attorney authorizing the individual signing to bind all partners. If a certified copy of the Partnership=s Certificate submitted with the Bid indicates that all partners have signed, no authorization is required.

3. Bids submitted by Joint Venturers shall be signed by one of the Joint Venturers and shall be accompanied by a certified copy of the Power of Attorney authorizing the individual signing to bind all the Joint Venturers. If a certified copy of the Joint Venturer's certificate submitted with the Bids indicate that all Joint Venturers have signed, not authorization is required.

4. Individual signing on own behalf: No authorization is required.

5. Individual signing on behalf of another: Power of Attorney or comparable evidence of authority shall accompany Bid.

J. The Bidder shall assume full responsibility for the timely delivery at the location designated for Receipt of Bids. No Bids received after the time fixed for receiving Bids will be considered.

K. Oral, telephonic or telegraphic bids are invalid and will not receive consideration. No telephonic or telegraphic modifications of a bid will be considered.

L. Negligence in preparation, improper preparation, errors in and/or omissions from the Bid shall not relieve the Bidder from fulfillment of any and all applicable obligations and requirements of the contract documents.

M. The State of Michigan, Department of Community Health will prepare the copies of the Agreement based upon the Bids submitted by the most qualified Bidder. These Agreements, when executed, will constitute the Contract between the State of Michigan, Department of Community Health and the successful Bidder.

4.6 OTHER CONDITIONS

A. The Bidder shall make no additional stipulations on the bid Form nor qualify the Bid in any other manner. Unauthorized conditions, limitations, or provisions attached to the Bid will be cause for rejection of the Bid. If alterations by erasure or interlineation are made for any reason, explain such erasure or interlineation with a signed statement from the Bidder.

B. No responsibility shall be attached to the Regional Field Consultant, or authorized representatives, for the premature opening of any proposal which is not properly addressed, delivered and/or identified.

C. No Bidder may withdraw a bid for a period of sixty (60) calendar days after the date set for opening thereof, and bids shall be subject to acceptance by the State of Michigan, Department of Community Health during this period.

D. TIME OF COMPLETION - The undersigned agrees to start work immediately after the project start date as described in Section - Cost Estimate Table/Summary of Work, or at such time as subsequently agreed upon by the Contractor and the State of Michigan, Department of Community Health. The undersigned also agrees to be completed with each work area or site by the completion date(s) as described in Section- Cost Estimate Table/Summary of Work, or pay the amount specified as liquidated damages.

In the event that the unit is not prepared properly by the occupant, it is the undersigned's responsibility to collect any associated mobilization fees from the homeowner with the approval of the State of Michigan, Department of Community Health, after the abatement work has been completed. The State of Michigan, Department of Community Health will not be held responsible for these costs incurred.

E. All workmanship should follow industry standards.

4.7 ACKNOWLEDGMENT OF ADDENDA

This bid incorporates the following Addenda:

Addenda #_____ Dated_____
Addenda #_____ Dated_____
Addenda #_____ Dated_____

4.8 LIST OF SUBCONTRACTORS

Subcontractor #1:

Company Name _____
Street Address _____
City/State/Zip _____
Phone Number _____
Trade _____

Subcontractor #2:

Company Name _____
Street Address _____
City/State/Zip _____
Phone Number _____
Trade _____

If additional space is required, please attach additional information on company letterhead.

Contractor may not delegate any of its obligations under the Contract without the prior written approval of the State. Contractor must notify the State at least 90 calendar days before the proposed delegation, and provide the State any information it requests to determine whether the delegation is in its best interest. If approved, Contractor must: (a) be the sole point of contact regarding all contractual matters, including payment and charges for all Contract Activities; (b) make all payments to the subcontractor; and (c) incorporate the terms and conditions contained in this Contract in any subcontract with a subcontractor. Contractor remains responsible for the completion of the Contract Activities, compliance with the terms of this Contract, and the acts and omissions of the subcontractor. The State, in its sole discretion, may require the replacement of any subcontractor.

4.9 SIGNATORY

A. LEGAL STATUS

The undersigned hereby declares the legal status indicated below:

1. __ Individual

2. __ Partnership, having the following partners:

   a. _____
   b. _____

3. __ Joint Venture, having the following joint venturers:

   a. _____
   b. _____

4. __ Corporation, Incorporated in the State of:

   _____

B. AGREEMENT

The undersigned has carefully examined the Contract Documents, including all sections of this specification, and agrees to be bound by all requirements thereof, in the submission of this proposal and in the performance of this contract.
This Bid Form is submitted in the name of:

Company Name

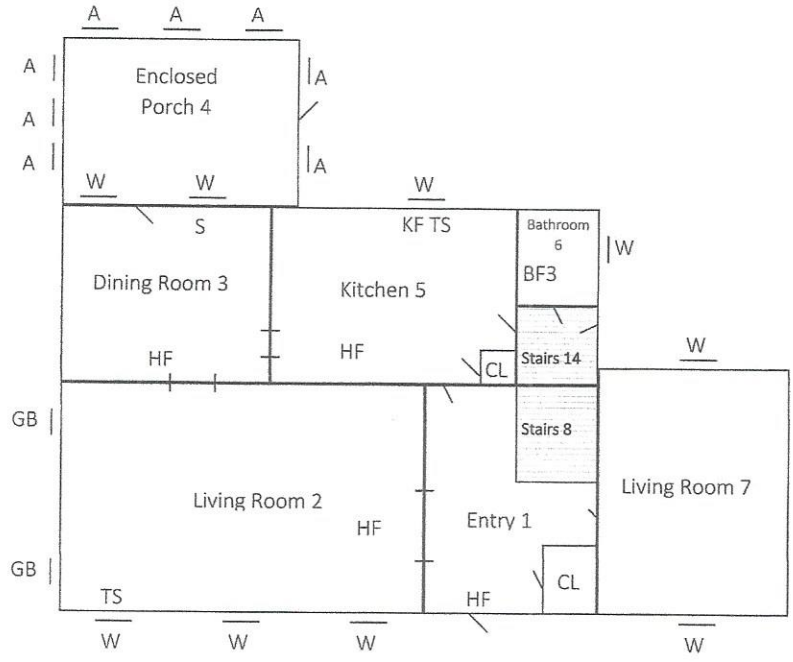
Address

Signature and Title

B-3: Floor Plans Side C

INTERIOR FIRST FLOOR

Side B



Side D

N

Dust wipe sample:
HF = Hard Floor, CF = Carpeted Floor
S = Window Sill, T = Window Trough

Soil samples: SS-1, SS-2, SS-3, etc.

WH = Water Heater WM = Water meter

Side A

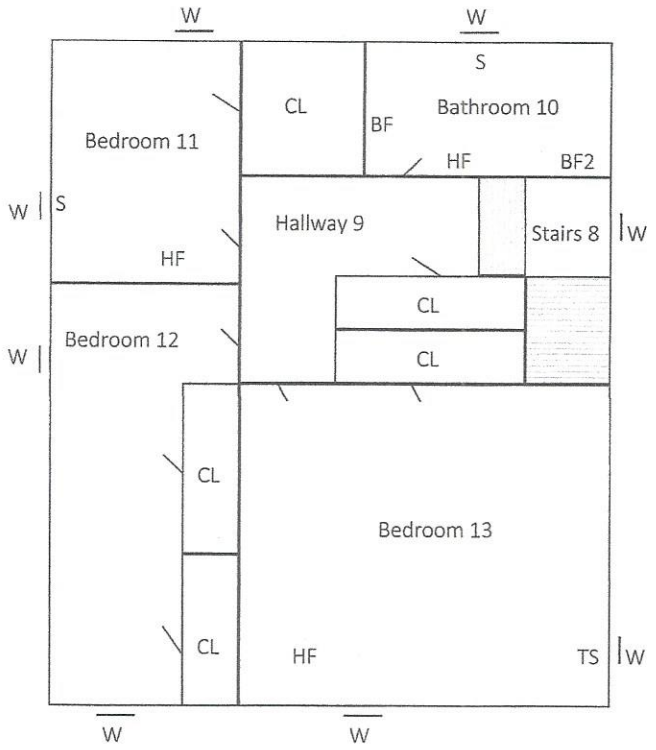
Window types:
W = Wood V = Vinyl AL = Aluminum M = Metal GB = Glass block
ST = Steel F = Fixed

Water samples:
BF = Bathroom Faucet, KF=Kitchen Faucet, EF=Exterior Faucet,
BTF=Bathroom Tub Faucet, LF=Laundry Faucet, RF=Refrigerator Faucet

B-3: Floor Plans

INTERIOR SECOND FLOOR

Side C



Side B

Side D

Dust wipe sample:
HF = Hard Floor, CF = Carpeted Floor
S = Window Sill, T = Window Trough

Soil samples: SS-1, SS-2, SS-3, etc.

WH = Water Heater WM = Water meter

Side A

N

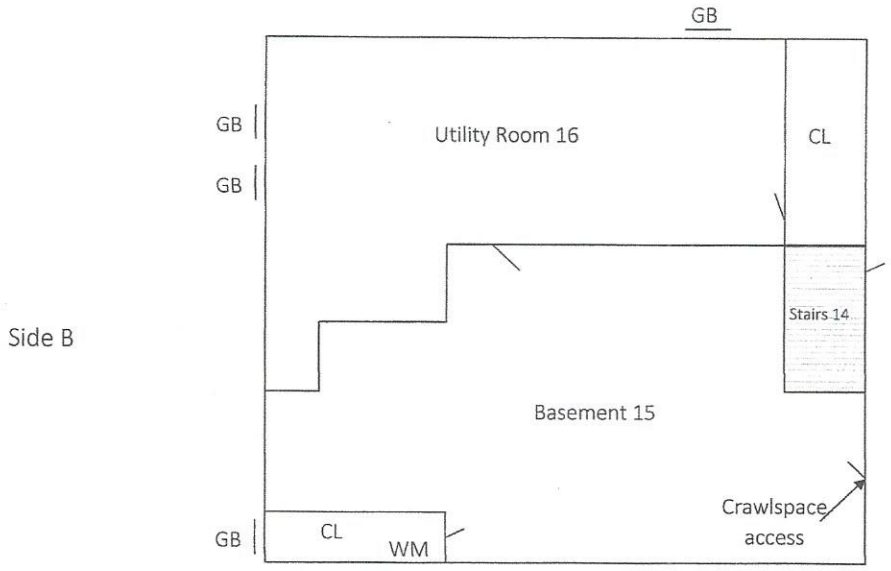
Window types:
W = Wood V = Vinyl AL = Aluminum M = Metal GB = Glass block
ST = Steel F = Fixed

Water samples:
BF = Bathroom Faucet, KF=Kitchen Faucet, EF=Exterior Faucet,
BTF=Bathroom Tub Faucet, LF=Laundry Faucet, RF=Refrigerator Faucet

B-3: Floor Plans

Side C

INTERIOR BASEMENT



Side B

Side D

N

Dust wipe sample:
HF = Hard Floor, CF = Carpeted Floor
S = Window Sill, T = Window Trough

Soil samples: SS-1, SS-2, SS-3, etc.

WH = Water Heater WM = Water meter

Side A

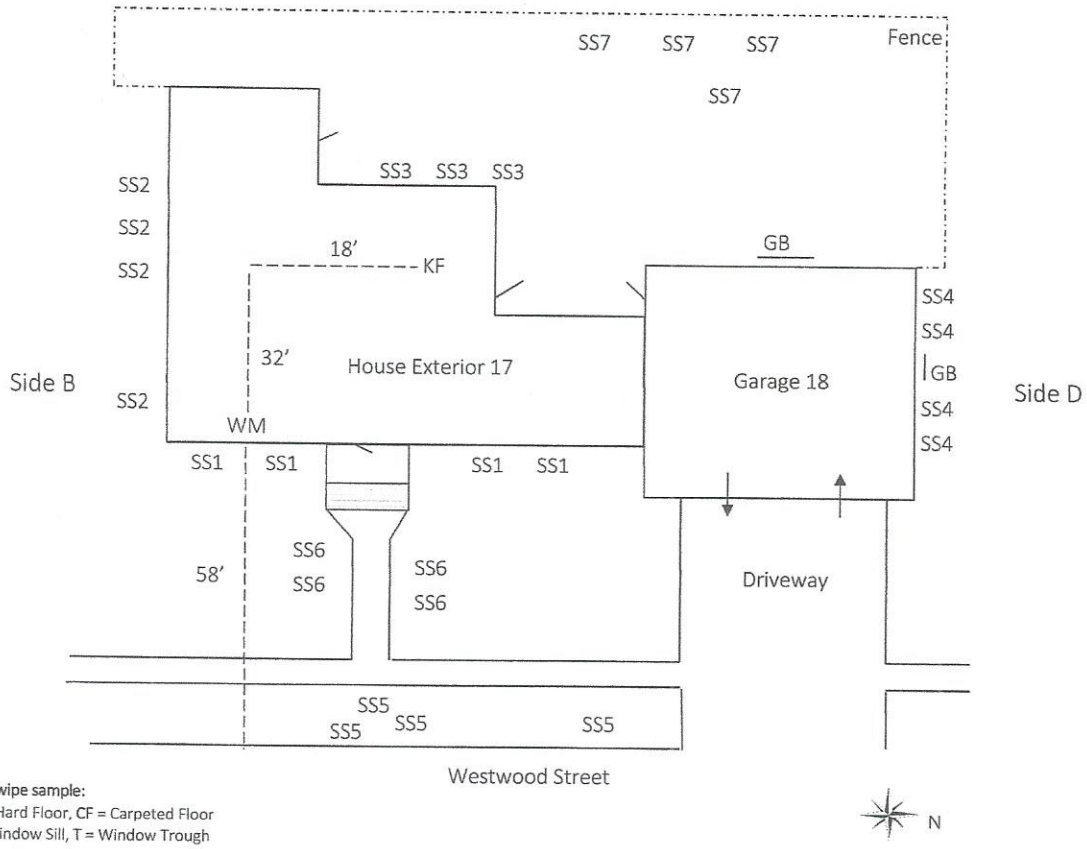
Window types:
W = Wood V = Vinyl AL = Aluminum M = Metal GB = Glass block
ST = Steel F = Fixed

Water samples:
BF = Bathroom Faucet, KF=Kitchen Faucet, EF=Exterior Faucet,
BTF=Bathroom Tub Faucet, LF=Laundry Faucet, RF=Refrigerator Faucet

B-3: Floor Plans

Side C

EXTERIOR PROPERTY LAYOUT



Dust wipe sample:
HF = Hard Floor, CF = Carpeted Floor
S = Window Sill, T = Window Trough

Soil samples: SS-1, SS-2, SS-3, etc.

WH = Water Heater WM = Water meter

Side A

Window types:
W = Wood V = Vinyl AL = Aluminum M = Metal GB = Glass block
ST = Steel F = Fixed

Water samples:
BF = Bathroom Faucet, KF=Kitchen Faucet, EF=Exterior Faucet,
BTF=Bathroom Tub Faucet, LF=Laundry Faucet, RF=Refrigerator Faucet

4.1 PROJECT NAME/LOCATION

Site: DEMARYST GARWARD
14935 WESTWOOD STREET
DETROIT, MI 48223
313-896-6008

Contractor: CTI

4.2 REGIONAL FIELD CONSULTANT

William Smallman
Healthy Homes Section
Grand Tower Building
235 South Grand Ave.,
4th Floor STE 410
P.O. Box 30037
Lansing, MI 48909
517-335-9390 Office
313-236-9081 Cell

COMPONENT	LOCATION	*REMEDIATION TASK DESCRIPTION*	LUMP SUM
New Spec WINDOW SASH, JAMB, STOP, PARTING BEAD AND WELL / TROUGH	Living Room 2, Dining Room 3, Kitchen 5, Bathroom 6, Living Room 7, Stairs 8, Bathroom 10, Bedroom 11, Bedroom 12 and Bedroom 13	Remove interior and exterior casings and save for re-installation. Remove and dispose of existing window units including window frames and weights. Thoroughly clean, before installation of new window units, all window openings using lead safe cleaning practices. Furnish and install new wood window unit(s) as manufactured by JELD WEN or equal. Window units to have factory applied primer on exterior surfaces. *Note: do not use sash packs.* New windows must comply with Historic Preservation guidelines i.e. match the size, design, proportions, profile and whenever possible, materials of the existing windows. New windows shall be Energy Star Rated-*(low E)*.Windows to have full screens and sash locks. Owner responsible for finish painting and/or staining of windows. Stabilize existing interior and exterior painted casings and associated painted window trim with Eco-Bond Lead Defender, or equivalent. Re-install all casings. Make necessary interior and exterior wall repairs. Caulk all seams. Caulk must be low VOC, butyl-based or silicone caulk (no latex). Window must be finished flush with interior portion of remaining casing. Install fiberglass batt insulation in any remaining gap greater than 3/8". Contractor to provide homeowner	**$21,655.00**

		with window warranty. Use tempered safety glass or obscured glass where necessary. REFER to the ***Secretary Of Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings.*** Ensure all exterior, horizontal surfaces are free of visual dust, paint chips and debris, including but not limited to roofs and eaves troughs. *If window bars are present, they should be removed and shall not be replaced. They should be provided to the homeowner after the work is completed.*	
Reason		***During the initial spec writing the RFC wrote specifications for vinyl windows and the home was found to be historic later. The price reflects the need for "historic wood windows".***	
New Spec DOOR, DOOR STILE AND DOOR STOP	Entry 1 (A side) Only	Remove and keep existing door. Remove existing stop. Remove all paint from impact and friction surfaces. Perform substrate stabilization on doors and all remaining door trim. Wet scrape and fully apply Eco-Bond Lead Defender (or equivalent) to doors, jamb and interior/exterior casing. Install new equivalent primed stop. Re-install existing door. Replace weatherstripping if necessary to provide an airtight seal.	**No price change**
Reason		***During the initial spec review the home was not believed to be historic. Later the home was found to be historic.***	

MICHIGAN ECONOMIC
DEVELOPMENT CORPORATION

January 22, 2020

CARIN SPEIDEL
MICHIGAN DEPARTMENT OF HEALTH AND HUMAN SERVICES
235 S GRAND RIVER AVENUE, SUITE 410/PO BOX 30037
LANSING, MI 48909

RE: ER-07-147.20.14935 WESTWOOD 14935 Westwood Street, Detroit, Wayne County (HUD)

Dear Ms. Speidel:

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended, we have reviewed the work specifications for the above-cited undertaking at the location noted above. Based on the information provided for our review, it is the opinion of the State Historic Preservation Officer (SHPO) that the proposed undertaking will have **no adverse effect** [36 CFR § 800.5(b)] on 14935 Westwood Street located in the Rosedale Park Historic District, which is listed in the National Register of Historic Places **provided the following conditions are met:**

- The original front door, if existing, should be repaired, rather than replaced. If the door is beyond repair, then the replacement door must match the size, design, proportions, profile and where possible, materials of the existing original door.
- Existing original windows should be repaired rather than replaced. If these windows are beyond repair, or documented lead levels preclude reuse, then the replacement windows must match the size, design, proportions, profile, and where possible materials of the existing original windows. If sash replacements are used in lieu of replacement windows, they must match the size, design, proportions, profile and material of the existing sash, with no modern materials exposed. Aluminum or vinyl clad sashes are not generally acceptable. If true divided light windows are not used, grilles must be permanently affixed to both the interior and the exterior of the windows. Enclosed is a copy of Preservation Brief #9: "The Repair of Historic Wooden Windows" that provides further guidance on this issue. Vinyl windows generally do not meet these requirements.
- Tinted windows are inappropriate in historic buildings. A low-e coating is acceptable only if the coating does not cause a tint or significantly increase the reflectivity of the glass.
- Aluminum or vinyl covered trim is not appropriate on a historic building. The existing original trim should be repaired and repainted, rather than replaced or covered with synthetic materials. Any replacement trim needed must match the material, size, configuration, and face exposure of the original. Enclosed are copies of Preservation Brief #8: Aluminum and Vinyl Siding on Historic Buildings and Preservation Brief #10: Exterior Paint Problems on Historic Woodwork that provide further guidance on these issues. This includes exterior fascias, frieze boards, porch beans, door and window casings.

Additionally, please note that this property is located within a locally designated historic district. As a result, all work affecting the exterior of the resources (both house and garage) must be reviewed and approved by the Local Historic District Commotion before any of the proposed work is initiated. It is also important to bear in mind that the Historic District Commission is not bound by the SHPO's concurrence with your determination effect.

If you concur, the accompanying form must be signed by an agency official with legal authority to act on behalf of the agency [36 CFR § 800.2(a)]. Please return the signed original to us. Please note that the Section 106 review process will not be complete and HUD'S responsibility to comply with 36 CFR § 800.4, "Identification of historic properties," and 36 CFR § 800.5, "Assessment of adverse effects," will not be fulfilled until we have received this letter with the original signature of the agency official. **If the agency official disagrees with these conditions, then consultation with this office shall be reopened per 36 CFR § 800.5(a).**

The State Historic Preservation Office is not the office of record for this undertaking. You are therefore asked to maintain a copy of this letter with your environmental review record for this undertaking. **If the scope of work changes in any way, or if artifacts or bones are discovered, please notify this office immediately.**

We remind you that federal agency officials or their delegated authorities are required to involve the public in a manner that reflects the nature and complexity of the undertaking and its effects on historic properties per 36 CFR § 800.2(d). The National Historic Preservation Act also requires that federal agencies consult with any Indian tribe and/or Tribal Historic Preservation Officer (THPO) that attach religious and cultural significance to historic properties that may be affected by the agency's undertakings per 36 CFR § 800.2(c)(2)(ii).

If you have any questions, please contact Debra Ball Johnson, Architect, at 517-241-0242 or by email at JohnsonD70@michigan.gov. **Please reference our project number in all communication with this office regarding this undertaking**. Thank you for this opportunity to review and comment, and for your cooperation.

Sincerely,

Martha MacFarlane-Faes
Deputy State Historic Preservation Officer

MMF:dbj

Enclosure(s)

Copy: Carmen Revron, HUD
Meghan Cole, MDHHS
William Smallman, MDHHHS
Detroit Historic District Commission

MICHIGAN ECONOMIC
DEVELOPMENT CORPORATION

January 22, 2020

CARIN SPEIDEL
MICHIGAN DEPARTMENT OF HEALTH AND HUMAN SERVICES
235 S GRAND RIVER AVENUE, SUITE 410/PO BOX 30037
LANSING, MI 48909

RE: ACCEPTANCE LETTER

ER-07-147.20.14935 WESTWOOD 14935 Westwood Street, Detroit, Wayne County (HUD)

We have received comments from the State Historic Preservation Office (SHPO) in regards to the above-cited undertaking at the location noted above. We intend to follow the conditions as specified by the SHPO.

I concur: _____ Date: 1/29/2020

Printed name and title of agency official: Carin Speidel, State Administrative Manager

Lead Inspection & Risk Assessment Report

FOR THE PROPERTY AT:

14935 Westwood Street
Detroit, MI 48223
1951

Prepared For:

OCCUPANT

[redacted]

OWNER

[redacted]

Date of Inspection: 03/26/2019

Date of Report 04/22/2019

Report Prepared and Submitted By: ETC Job #: 220026

Robert Perry
Michigan Certification P-07333
XRF Serial Number: 1815

Environmental Testing and Consulting
38900 West Huron River Drive
Romulus, MI 48174
734-955-6600

On Behalf Of:

Michigan Department of Health and Human Services
Healthy Homes Section
PO BOX 30037, Suite 410
Lansing, MI 48909
517-335-9390

Lead Testing

RESULTS & RECOMMENDATIONS

The table below details all of the lead-hazards found in your home.

TABLE 1: ALL LEAD-HAZARDS				
COMPONENT& LOCATION OF HAZARD	SEVERITY*	PRIORITY**	ABATEMENT OPTIONS	INTERIM CONTROL OPTIONS
Hazards throughout Home				
Dust levels in some window troughs / wells within the home were found to have elevated lead levels. Therefore, all window troughs should be considered to be lead contaminated.	1	2	The risk assessor believes that these high lead levels were caused by other lead hazards dealt with below. Therefore, after having completed all other abatement / interim control options, clean the entire house for lead dust thoroughly using the accepted HEPA-Wash-HEPA cleaning methods.	The risk assessor believes that these high lead levels were caused by other lead hazards dealt with below. Therefore, after having completed all other abatement / interim control options, clean the entire house for lead dust thoroughly using the accepted HEPA-Wash-HEPA cleaning methods.
Dust levels in some window sills / stools within the home were found to have elevated lead levels. Therefore, all window sills should be considered to be lead contaminated.	3	3	The risk assessor believes that these high lead levels were caused by other lead hazards dealt with below. Therefore, after having completed all other abatement / interim control options, clean the entire house for lead dust thoroughly using the accepted HEPA-Wash-HEPA cleaning methods.	The risk assessor believes that these high lead levels were caused by other lead hazards dealt with below. Therefore, after having completed all other abatement / interim control options, clean the entire house for lead dust thoroughly using the accepted HEPA-Wash-HEPA cleaning methods.

COMPONENT& LOCATION OF HAZARD	SEVERITY*	PRIORITY**	ABATEMENT OPTIONS	INTERIM CONTROL OPTIONS
Hazards on Property (Not Home)				
The Paint Chips found around the house are hazards	1	1	Remove all visible paint chips	Remove all visible paint chips
ALL WINDOW SASH EXT, STOP EXT, PART BEAD, AND WELL-TROUGH represent deteriorated lead paint Friction/Impact surface hazards	3	1	1) Remove and replace with new replacement windows or 2) replace individual lead painted components 3) enclose all lead painted surfaces or 4) strip all surfaces bare to the substrate, make necessary repairs, stabilize surfaces, and repaint.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint. Install stops at all contact points with other building components (I.E. doors, etc.)
Exterior House #17				
All wood Window Casings and Door Trim represent deteriorated lead paint surface hazards	3	2	1) Enclose by wrapping with vinyl or aluminum and seal or 2) wet scrape/sand all surfaces, make necessary repairs, stabilize surfaces and encapsulate with a Michigan approved, exterior grade encapsulant or 3) Remove and replace with new components or 4) strip surfaces bare to the substrate, make necessary repairs, stabilize surfaces, and repaint	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
Window Shutters represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.

COMPONENT& LOCATION OF HAZARD	SEVERITY*	PRIORITY**	ABATEMENT OPTIONS	INTERIM CONTROL OPTIONS
Soffit and Frieze Board represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
All aluminum door and window casings and garage door casing represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
Side C Porch Beam represents a deteriorated lead paint surface hazard	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
Attic Vents represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
Entry #1				
Side A Door, Door Stile, and Stop represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new door systems or 2) replace individual lead painted components or 3) strip all surfaces bare to the substrate, stabilize surfaces, and repaint.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint. Install stops at all contact points with other building components (I.E. doors, etc.)

COMPONENT& LOCATION OF HAZARD	SEVERITY*	PRIORITY**	ABATEMENT OPTIONS	INTERIM CONTROL OPTIONS
Living Room #2				
Side A1 and A3 window casings represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
Dining Room #3				
Side C Door, Door Stile, and Stop represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new door systems or 2) replace individual lead painted components or 3) strip all surfaces bare to the substrate, stabilize surfaces, and repaint.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint. Install stops at all contact points with other building components (I.E. doors, etc.)
Enclosed Porch #4				
Ceiling represents a deteriorated lead paint surface hazard	3	2	1) Enclose with drywall or other suitable wallboard material or 2) wet scrape/sand all surfaces, make necessary repairs, stabilize surfaces and encapsulate with a Michigan approved encapsulant.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
Side A Crown Molding and all corner wall casings represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.

COMPONENT& LOCATION OF HAZARD	SEVERITY*	PRIORITY**	ABATEMENT OPTIONS	INTERIM CONTROL OPTIONS
Side A Door Casing and Lintel represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
Side A window casings represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
Kitchen #5				
Closet Shelf and Shelf Bracket represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
Side A Door Casing and Side C Window Casing represent deteriorated lead paint surface hazards	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.
Bathroom #6				
Side A Wall Casing represents a deteriorated lead paint surface hazard	3	2	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.

COMPONENT& LOCATION OF HAZARD	SEVERITY*	PRIORITY**	ABATEMENT OPTIONS	INTERIM CONTROL OPTIONS
Stairwell #14				
Side D Door and Door Stop represent deteriorated lead paint Friction/Impact surface hazards	3	2	1) Remove and replace with new door systems or 2) replace individual lead painted components or 3) strip all surfaces bare to the substrate, stabilize surfaces, and repaint.	Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint. Install stops at all contact points with other building components (I.E. doors, etc.)
Entire Home				
After having completed all other abatement and interim control options.	NA	NA	After completing all abatement and interim control options clean the entire home for lead dust thoroughly using the accepted HEPA-Wash-HEPA cleaning methods.	After completing all abatement and interim control options clean the entire home for lead dust thoroughly using the accepted HEPA-Wash-HEPA cleaning methods.

** Severity: 1 = most severe; 2 = very severe; 3 = somewhat severe*

***Priority: 1 = high priority; 2 = medium priority; 3 = low priority*

RESULTS OF TESTED SURFACES

The following tables detail levels of lead found in paint, dust, and soil on your property.

Positive Lead-Paint Results

All paint testing results in Appendix D.

TABLE 2: POSITIVE LEAD-PAINT RESULTS

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
186	5.8	Positive	Door Jamb	A		White	Deteriorated	Wood	Entry	12	Friction	Yes	No
199	5.7	Positive	Win. Sash Ext.	A		White	Deteriorated	Wood	Living Room	1	Weather	Yes	No
200	5.6	Positive	Win. Stop Ext.	A		White	Deteriorated	Metal	Living Room	1	Weather	Yes	No
201	5.9	Positive	Win. Jamb	A		White	Deteriorated	Metal	Living Room	1	Friction	Yes	No
202	6.6	Positive	Win. Part Bead	A		White	Deteriorated	Metal	Living Room	1	Friction	Yes	No
203	5.9	Positive	Win. Well-Trough	A		White	Deteriorated	Wood	Living Room	1	Weather	Yes	No
204	6.3	Positive	Win. Well-Trough	A	2	White	Deteriorated	Wood	Living Room	1	Weather	Yes	No
205	5.4	Positive	Win. Well-Trough	A	3	White	Deteriorated	Wood	Living Room	1	Weather	Yes	No
223	5.2	Positive	Win. Sash Ext.	B		White	Deteriorated	Wood	Dining Room	2	Weather	Yes	No
224	5.1	Positive	Win. Stop Ext.	B		White	Deteriorated	Metal	Dining Room	2	Weather	Yes	No
225	5.1	Positive	Win. Jamb	B		White	Deteriorated	Metal	Dining Room	2	Friction	Yes	No

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
226	5.2	Positive	Win. Part Bead	B		White	Deteriorated	Metal	Dining Room	2	Friction	Yes	No
227	5.3	Positive	Win. Well-Trough	B		White	Deteriorated	Wood	Dining Room	2	Weather	Yes	No
228	5.2	Positive	Win. Well-Trough	A		White	Deteriorated	Wood	Dining Room	2	Weather	Yes	No
297	5.7	Positive	Win. Sash Ext.	D		White	Deteriorated	Wood	Bedroom	5	Weather	Yes	No
298	5.7	Positive	Win. Stop Ext.	D		White	Deteriorated	Wood	Bedroom	5	Weather	Yes	No
299	5.8	Positive	Win. Jamb	D		White	Deteriorated	Metal	Bedroom	5	Friction	Yes	No
300	5.9	Positive	Win. Part Bead	D		White	Deteriorated	Metal	Bedroom	5	Friction	Yes	No
301	5.9	Positive	Win. Well-Trough	D		White	Deteriorated	Wood	Bedroom	5	Weather	Yes	No
302	5.6	Positive	Win. Well-Trough	C		White	Deteriorated	Wood	Bedroom	5	Weather	Yes	No
327	4.4	Positive	Win. Sash Ext.	B		White	Deteriorated	Wood	Bedroom	6	Weather	Yes	No
328	4.1	Positive	Win. Stop Ext.	B		White	Deteriorated	Metal	Bedroom	6	Weather	Yes	No
329	4.4	Positive	Win. Jamb	B		White	Deteriorated	Metal	Bedroom	6	Friction	Yes	No
330	4.5	Positive	Win. Part Bead	B		White	Deteriorated	Metal	Bedroom	6	Friction	Yes	No
331	4.3	Positive	Win. Well-Trough	B		White	Deteriorated	Wood	Bedroom	6	Weather	Yes	No

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
332	3.8	Positive	Win. Well-Trough	C		White	Deteriorated	Wood	Bedroom	6	Weather	Yes	No
383	4.7	Positive	Win. Sash Ext.	B		White	Deteriorated	Wood	Storage Room	9	Weather	Yes	No
384	4.8	Positive	Win. Sash Ext.	B		White	Deteriorated	Wood	Storage Room	9	Weather	Yes	No
385	1.3	Positive	Win. Stop Ext.	B		White	Deteriorated	Metal	Storage Room	9	Weather	Yes	No
386	5	Positive	Win. Jamb	B		White	Deteriorated	Metal	Storage Room	9	Friction	Yes	No
387	4.9	Positive	Win. Part Bead	B		White	Deteriorated	Metal	Storage Room	9	Friction	Yes	No
388	4.8	Positive	Win. Well-Trough	B		White	Deteriorated	Wood	Storage Room	9	Weather	Yes	No
389	4.9	Positive	Win. Well-Trough	D		White	Deteriorated	Wood	Storage Room	9	Weather	Yes	No
390	4.6	Positive	Win. Well-Trough	D	2	White	Deteriorated	Wood	Storage Room	9	Weather	Yes	No
413	4.6	Positive	Door Jamb Ext.	B		White	Deteriorated	Wood	Base. Stair	10	Weather	Yes	No
431	1	Positive	Cabinet In	D	2	Grey	Deteriorated	Wood	Basement	11	Impact	Yes	No
432	1	Positive	Cabinet Front	D	2	Grey	Deteriorated	Wood	Basement	11	Impact	Yes	No
448	1	Positive	Porch Rail	A		White	Deteriorated	Metal	Exterior House	13	Weather	Yes	No

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
461	5	Positive	Ext. Sash Well Jamb	A		White	Deteriorated	Wood	Exterior House	13	Weather	Yes	No
462	6.5	Positive	Ext. Sash Well Jamb	B		White	Deteriorated	Wood	Exterior House	13	Weather	Yes	No
463	7.4	Positive	Ext. Sash Well Jamb	C		White	Deteriorated	Wood	Exterior House	13	Weather	Yes	No
464	6.2	Positive	Ext. Sash Well Jamb	D		White	Deteriorated	Wood	Exterior House	13	Weather	Yes	No
465	6.4	Positive	Win. Casing	All		White	Deteriorated	Wood	Exterior House	13	Weather	No	No

HUD reporting limits for positive XRF results are ≥ 1.0 mg/cm²(milligrams per square centimeter) for painted or glazed surfaces.

Dust Wipe Sample Results

TABLE 3: DUST WIPE SAMPLE RESULTS

SAMPLE #	ROOM/WIPE LOCATION	SURFACE TESTED HF Hard Floor CF Carpet Floor T Trough S Stool/Sill O Other	LEAD HAZARD?	LAB RESULT (µg/ft²)
FB1	Field Blank	N/A	No	N/D
DW-1	Entry 1	HF	No	<5.00
DW-2	Living Room 2	HF	No	<5.00
DW-3	Living Room 2 Side A	S	No	60.67
DW-4	**Living Room 2 Side A**	**T**	**Yes**	**1219.91**
DW-5	Dining Room 3	HF	No	5.25
DW-6	Dining Room 3 Side C	S	No	<14.22
DW-7	Kitchen 5	HF	No	<5.00
DW-8	Kitchen 5 Side C	S	No	<16.13
DW-9	**Kitchen 5 Side C**	**T**	**Yes**	**571.90**
DW-10	Bathroom 10	HF	No	<5.00
DW-11	Bathroom 10 Side C	S	No	31.16
DW-12	Bedroom 13	HF	No	<5.00
DW-13	Bedroom 13 Side D	S	No	14.06
DW-14	**Bedroom 13 Side D**	**T**	**Yes**	**400.51**
DW-15	Bedroom 11	HF	No	<5.00
DW-16	**Bedroom 11 Side B**	**S**	**Yes**	**107.15**

For all HUD/Medicaid projects lead action levels for dust: Floors = 10 µg/ft² (micrograms per square feet); Porches = 40 µg/ft²; Window stools/interior sills = 100 µg/ft²; Window troughs = 100 µg/ft².BRL = Below Reporting Limits. N/D = Not Detected.

Soil Sample Results

☐ Soil samples not collected due to snow or frozen ground.

☐ Soil samples not collected due to there being no bare soil present.

If either box above is checked, soil sample results will not be included because soil samples were not taken.

TABLE 4: SOIL SAMPLE RESULTS

SAMPLE #	LOCATION OF BARE SOIL AREA	APPROXIMATE AREA IN SQUARE-FEET (FT^2)	LEAD HAZARD?	LAB RESULT IN PARTS PER MILLION (ppm)
SS-1	Side A Dripline	70	No	23.10
SS-2	Side B Dripline	15	No	21.16
SS-3	Side C Dripline	25	No	25.99
SS-4	Side D Dripline	40	No	21.40
SS-5	Urban Soil	10	No	59.29
SS-6	Front Yard Bare	45	No	49.31
SS-7	Backyard Bare	80	No	48.52

EPA and HUD lead action levels: Soil – at 1,200 ppm; Child play areas and gardens – at 400 ppm or more. BRL = Below Reporting Limits. N/D = Not Detected.

Other Surface Sample Results

The table below details all non-painted surfaces that were tested. Testing these surfaces can help find other sources of lead-exposure. These surfaces are not required to be tested.

TABLE 5: OTHER SURFACE SAMPLE RESULTS

SURFACE/ITEM DESCRIPTION	LOCATION	MATERIAL	RESULT (mg/cm^2)
N/A	N/A	N/A	N/A

Items listed above were tested using an XRF. The results are limited because the surfaces tested do not comply with the devices testing ability. ***Positive lead results are in bold.*** *These items may be a potential source of lead exposure. [mg/cm^2 = milligrams per square centimeter]*

SURFACES UNABLE TO BE TESTED

A lead investigation requires testing all painted surfaces. Some painted surfaces in your home may be out of reach. These surfaces are not tested. Surfaces out of reach that are not tested are assumed to contain lead-based paint. If the paint looks deteriorated, the surface is assumed a lead-based paint hazard. The table below details all of the untested painted surfaces. It also details why the surface was not tested.

TABLE 6: SURFACES UNABLE TO TEST

ROOM	COMPONENT	REASON NOT TESTED
N/A	N/A	N/A

HUD reporting limits for positive XRF results are ≥1.0 mg/cm²(milligrams per square centimeter) for painted or glazed surface.

POTENTIAL HAZARDS

Lead can exist in your home and not be a hazard. The table below details all surfaces found to contain lead but are not current hazards. Please make a note of these surfaces and remember to monitor them for changes. Any changes could make the surface a lead-hazard, which will alter severity and priority levels and require lead hazard control options. Refer to Appendix C-3 for ways to monitor.

TABLE 7: POTENTIAL HAZARDS

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
This property contains LBP but does not contain any potential hazards.													

HUD reporting limits for positive XRF results are ≥1.0 mg/cm² (milligrams per square centimeter) for painted or glazed surfaces.

Water Testing

RESULTS & RECOMMENDATIONS

VERIFICATION QUESTIONS & ANSWERS	
QUESTION	RESPONSE
Where does the building's water come from?	City
Is there evidence of disturbances in the water system in the area?	No
Have there been disturbances or repairs to local water supply systems in the area? (*Local water supply systems include water pipes that carry water to your home. These disturbances may release lead particles into your water.*)	No
Is there evidence the service line has been replaced or repaired?	No
Has the service line been replaced or repaired? If yes, when?	No
Is there evidence of water use within the 6-hour stagnation period?	No
When was the last time the water was used?	12 a.m. - 03-26-2019
Is there evidence of plumbing leaks?	No
Are there any plumbing leaks?	No

BEHAVIORAL PATTERNS	
QUESTION	RESPONSE
Do you use hot water from the faucet to drink?	No
Do you use hot water from the faucet to cook?	No
Do you use hot water from the faucet make baby formula?	No
What faucets does your child use to drink water?	Kitchen 5
How much water does your child drink from each faucet listed?	8 ounces per day from Kitchen 5 Faucet
Does your child drink water from an outside faucet or the hose?	No
Does your child drink water from laundry tubs?	No
Does your child drink water from the bathtub?	Yes
Does your child drink water from anywhere else in the home?	No
Do you use an outside faucet to water a vegetable garden?	No

VISUAL PLUMBING ASSESSMENT	
QUESTION	RESPONSE
Document service line material (photo in Appendix B-4)	Copper
For interior plumbing, how many large volume samples need to be collected?	4
For exterior plumbing, how many large volume samples need to be collected?	4
Does the home have lead or brass plumbing components, faucets or copper pipes soldered with lead? If yes, where/what?	Yes All can be found in various components/ places - Bathroom 6 faucet, Bathroom 10 bathtub, Basement 15 service line shutoff, water meter and nipple, Utility Room 16 copper fittings with solder and Exterior House 17 hose spigot

FAUCET SAMPLED		WATER FILTER		AERATOR		
FAUCET LOCATION	DATE INSTALLED	FILTER PRESENT?	DOES IT WORK?	AERATOR PRESENT?	COULD YOU REMOVE IT?	WERE PARTICLES FOUND?
Kitchen 5 Sink Faucet	Pre-2014	No	N/A	Yes	Yes	No
Bathroom 6 Sink Faucet	Pre-2014	No	N/A	Yes	No	N/A
Bathroom 10 Sink Faucet	Pre-2014	No	N/A	Yes	Yes	Yes
Bathroom 10 Bathtub Faucet	Pre-2014	No	N/A	No	N/A	N/A

Is there a whole house water filtration system?	No

Results

TABLE W.1: WATER SAMPLE RESULTS

SAMPLE #	LOCATION	IS LEAD PRESENT IN SAMPLE?	DOES SAMPLE EXCEED EPA ACTION LEVELS?	RESULTS Milligrams per Liter (mg/L)	RESULTS Parts per Billion (ppb)
KF-P1	Kitchen 5 Sink Faucet	Yes	No	N/D	N/D
KF-P2	Kitchen 5 Sink Faucet	Yes	No	.0024	2.4
BF-P1	Bathroom 10 Sink Faucet	Yes	No	.0011	1.1
BF-P2	Bathroom 10 Sink Faucet	Yes	No	N/D	N/D
BF2-P1	Bathroom 10 Bathtub Faucet	Yes	No	.0041	4.1
BF2-P2	Bathroom 10 Bathtub Faucet	Yes	No	.0039	3.9
BF3-P1	Bathroom 6 Sink Faucet	Yes	No	.0017	1.7
BF3-P2	Bathroom 6 Sink Faucet	Yes	No	N/D	N/D
KF-A1	Kitchen 5 Sink Faucet	Yes	No	N/D	N/D
KF-A2	Kitchen 5 Sink Faucet	Yes	No	N/D	N/D
KF-A3	Kitchen 5 Sink Faucet	Yes	No	N/D	N/D
KF-A4	Kitchen 5 Sink Faucet	Yes	No	N/D	N/D
KF-A5	Kitchen 5 Sink Faucet	Yes	No	N/D	N/D
KF-A6	Kitchen 5 Sink Faucet	Yes	No	N/D	N/D
KF-A7	Kitchen 5 Sink Faucet	Yes	No	N/D	N/D
KF-A8	Kitchen 5 Sink Faucet	Yes	No	N/D	N/D

EPA action level for lead in drinking water is 15 parts per billion (ppb) or 0.015 milligrams per liter (mg/L). BRL = Below Reporting Limits. N/D = Not Detected. "P" samples = first draws; "A" samples = system draws. See Appendix E for laboratory reporting limits for lead in drinking water

Recommendations

Lead was detected in water. EPA action level is 15 ppb (parts per billion) or above. The results are **BELOW** EPA action levels at the:

- Kitchen 5 Sink Faucet
- Bathroom 10 Sink Faucet
- Bathroom 10 Bathtub Faucet
- Bathroom 6 Sink Faucet

Please use the recommendations below to reduce exposure to lead in water:

- Flush drinking water faucets for approximately 30 seconds before use (this includes for drinking and cooking). Drinking water faucets not used in the last six (6) hours should be flushed for two (2) minutes before use.
- Use cold water for drinking and cooking.
- Use a filter on all drinking water faucets. This filter must be certified for lead reduction. Check the label for "NSF-53," this means it is a certified filter.
- Inspect and clean aerators regularly. An aerator is a small screen near the tip of the faucet.
- Replace drinking water faucets if installed before 2014. Faucets must be manufactured after 2014. Be sure the faucet is certified to not contain lead.
- Do not drink from faucets that are not made for drinking water. These include:
    - Outside faucets
    - Laundry tub(s)
    - Bathtub(s)
- Be mindful of recent disturbances or repairs to local water supply systems. Local water supply systems include water pipes that carry water to your home. These disturbances may release lead particles into your water.

Lead Testing Procedure

Water collected and analyzed for lead follows the Michigan Department of Health and Human Services (MDHHS), Residential Lead Hazard Control – Lead in Water Protocol.

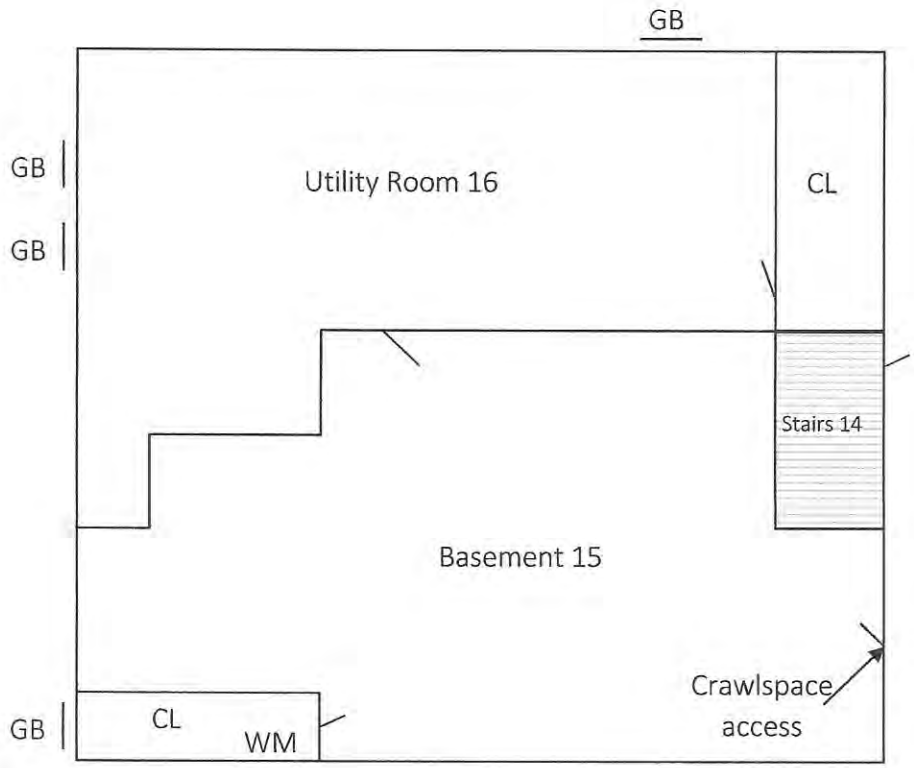
Inspector Certification

The information contained in this report is a true and accurate representation of the conditions and activities at this property at the time of this investigation, based on the professional judgment of the person(s) who conducted and reported this Environmental Investigation. If soil samples were not collected as indicated in Table 4 due to snow, these samples will be collected at the earliest opportunity. An amended report will be sent with any soil hazards found and corrective action options.
Robert Perry
Michigan Certified Lead Inspector/Risk Assessor # P-07333
Risk Assessor E-Mail: Robert.Perry@2ETC.com

B-3: Floor Plans

INTERIOR BASEMENT

Side C



Side B

Side D

N

Side A

Dust wipe sample:
HF = Hard Floor, **CF** = Carpeted Floor
S = Window Sill, **T** = Window Trough

Soil samples: SS-1, SS-2, SS-3, etc.

WH = Water Heater **WM** = Water meter

Window types:
W = Wood **V** = Vinyl **AL** = Aluminum **M** = Metal **GB** = Glass block
ST = Steel **F** = Fixed

Water samples:
BF = Bathroom Faucet, **KF**=Kitchen Faucet, **EF**=Exterior Faucet,
BTF=Bathroom Tub Faucet, **LF**=Laundry Faucet, **RF**=Refrigerator Faucet

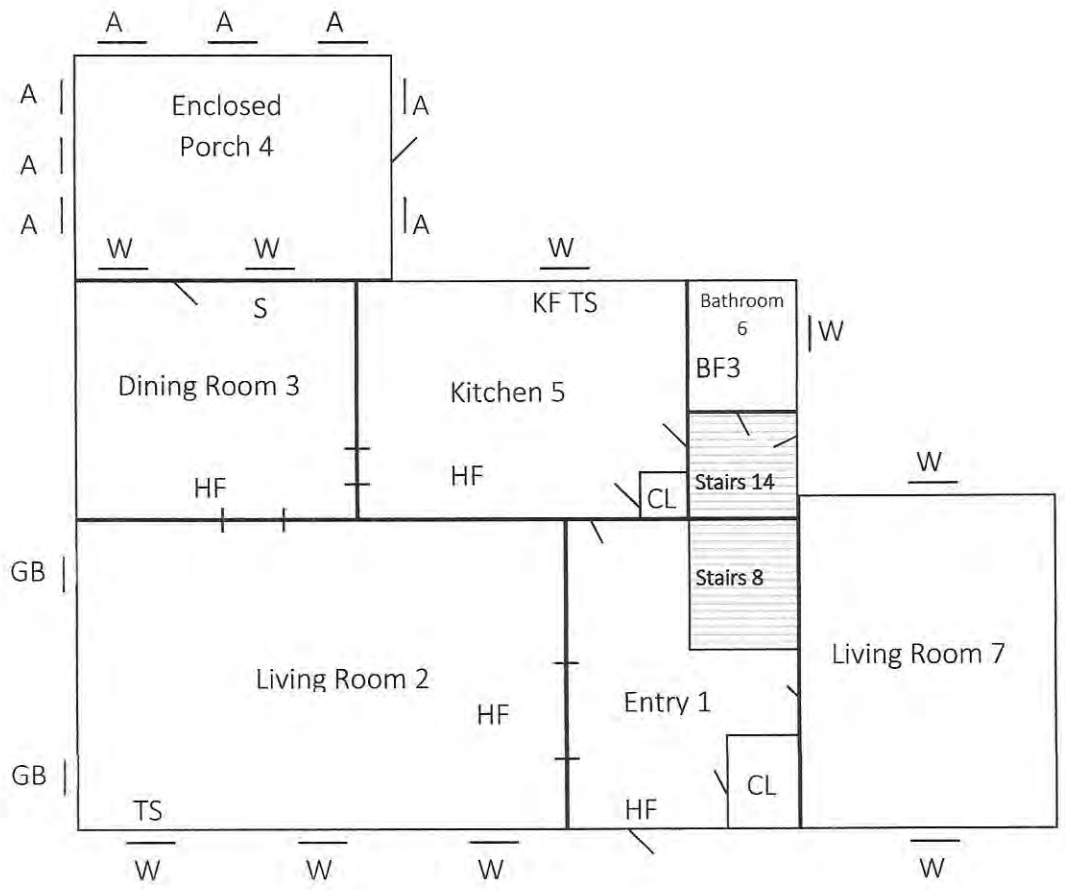
B-3: Floor Plans

INTERIOR FIRST FLOOR

Side C

Side B

Side D



Side A

Dust wipe sample:
HF = Hard Floor, **CF** = Carpeted Floor
S = Window Sill, **T** = Window Trough

Soil samples: SS-1, SS-2, SS-3, etc.

WH = Water Heater **WM** = Water meter

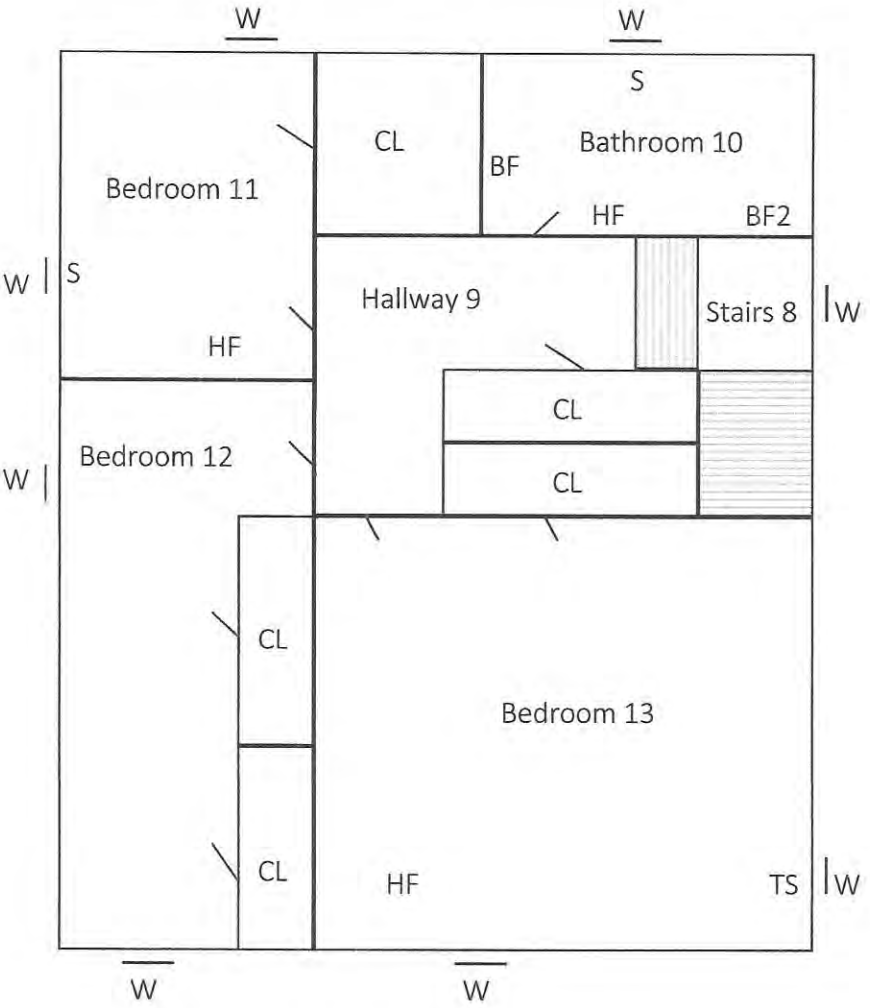
Window types:
W = Wood **V** = Vinyl **AL** = Aluminum **M** = Metal **GB** = Glass block
ST = Steel **F** = Fixed

Water samples:
BF = Bathroom Faucet, **KF**=Kitchen Faucet, **EF**=Exterior Faucet,
BTF=Bathroom Tub Faucet, **LF**=Laundry Faucet, **RF**=Refrigerator Faucet

B-3: Floor Plans

Side C

INTERIOR SECOND FLOOR



Dust wipe sample:
HF = Hard Floor, **CF** = Carpeted Floor
S = Window Sill, **T** = Window Trough

Soil samples: SS-1, SS-2, SS-3, etc.

WH = Water Heater **WM** = Water meter

N

Side A

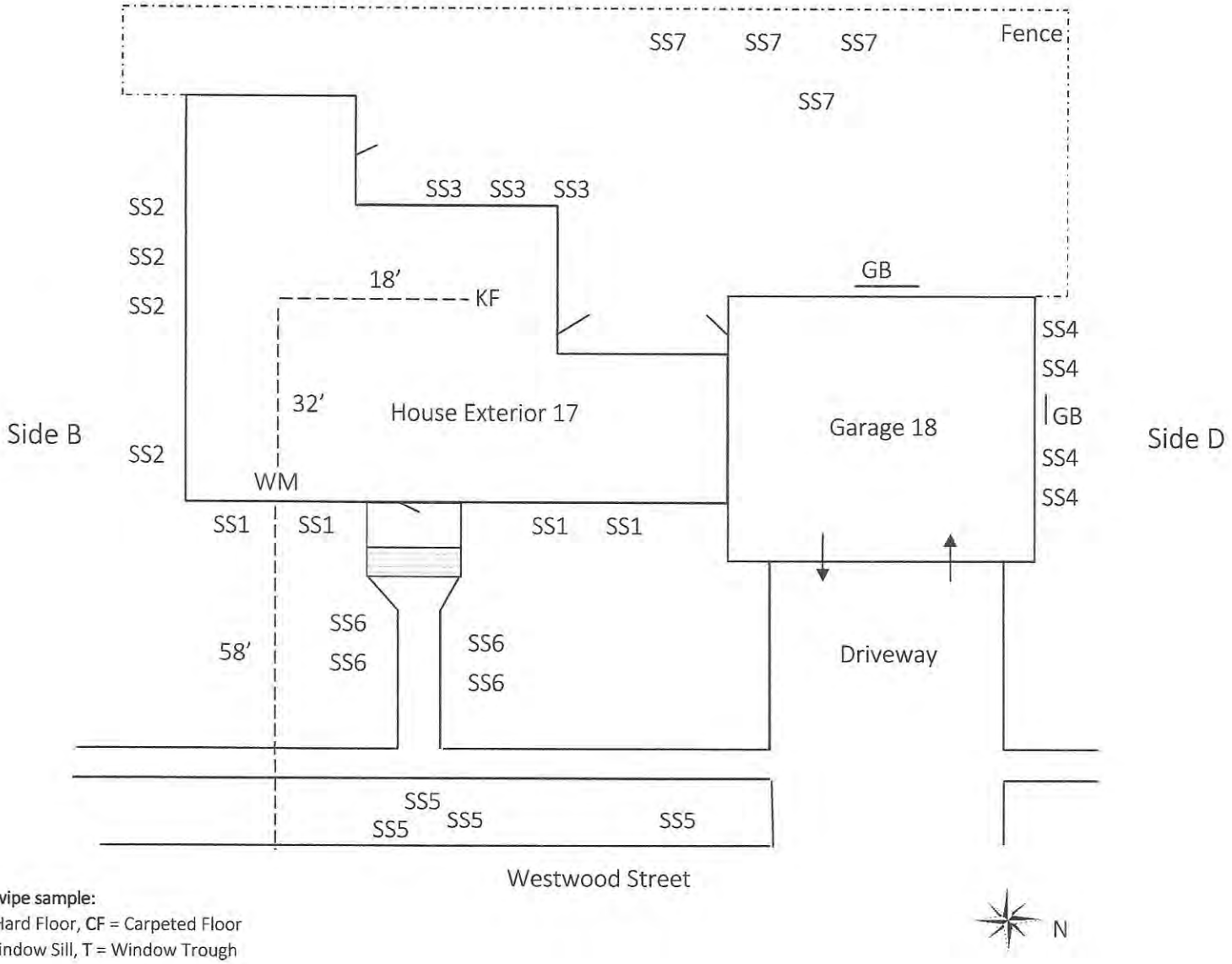
Window types:
W = Wood **V** = Vinyl **AL** = Aluminum **M** = Metal **GB** = Glass block
ST = Steel **F** = Fixed

Water samples:
BF = Bathroom Faucet, **KF**=Kitchen Faucet, **EF**=Exterior Faucet,
BTF=Bathroom Tub Faucet, **LF**=Laundry Faucet, **RF**=Refrigerator Faucet

B-3: Floor Plans

Side C

EXTERIOR PROPERTY LAYOUT



Side A

Dust wipe sample:
HF = Hard Floor, **CF** = Carpeted Floor
S = Window Sill, **T** = Window Trough

Soil samples: SS-1, SS-2, SS-3, etc.

WH = Water Heater **WM** = Water meter

Window types:
W = Wood **V** = Vinyl **AL** = Aluminum **M** = Metal **GB** = Glass block
ST = Steel **F** = Fixed

Water samples:
BF = Bathroom Faucet, **KF**=Kitchen Faucet, **EF**=Exterior Faucet,
BTF=Bathroom Tub Faucet, **LF**=Laundry Faucet, **RF**=Refrigerator Faucet

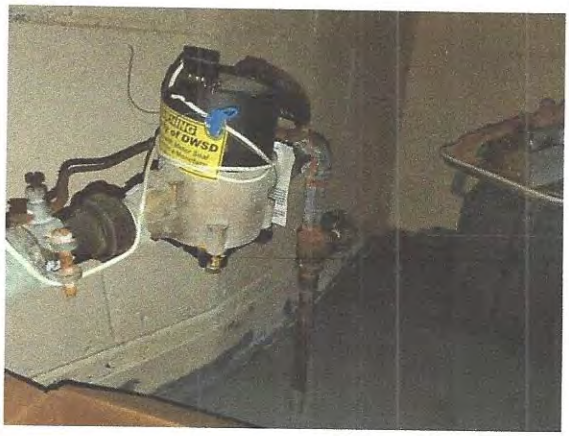
B-4: Photos

Side A

Side B

Side C

Side D



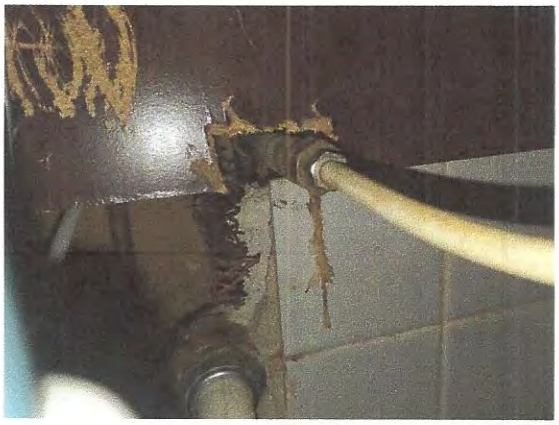
Basement 15 Service Line, Shutoff, Water Meter, Nipple

Bath 6 No Sink Shutoff

Bath 6 Sink Faucet

Bath 10 Aerator

Bath 10 Bathtub Faucet



Bath 10 No Sink Shutoff

Bath 10 Shower

Bath 10 Sink Faucet

Bath 10 Bathtub

Exterior House 17 Hose Spigot

Kitchen 5 Aerator

Kitchen 5 No Sink Shutoff

Kitchen 5 Sink Faucet

Utility 16 Sink Faucet

Utility 16 Soldered Copper Plumbing

Utility 16 Water Heater

APPENDIX D – ALL XRF RESULTS & DEVICE USED

D-1: Results

ALL XRF RESULTS

TABLE 8: ALL XRF RESULTS

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
1	1	Positive	Calibrate										
2	1	Positive	Calibrate										
3	1	Positive	Calibrate										
4	0.3	Negative	Wall	A		White	INTACT	Plaster	Entry	1			
5	0.4	Negative	Wall	B		White	Deteriorated	Plaster	Entry	1			
6	0.3	Negative	Wall	C		White	Deteriorated	Plaster	Entry	1			
7	-0.1	Negative	Wall	D		White	Deteriorated	Plaster	Entry	1			
8	0.3	Negative	Ceiling	Ceiling		White	Deteriorated	Plaster	Entry	1			
9	0.2	Negative	Wall Register	A		White	Deteriorated	Metal	Entry	1			
10	0.3	Negative	Wall Register	B		White	Deteriorated	Metal	Entry	1			
11	0.2	Negative	Baseboard	A		Stain	Deteriorated	Wood	Entry	1			
12	0.1	Negative	Baseboard	B		Stain	Deteriorated	Wood	Entry	1			
13	0.1	Negative	Baseboard	C		Stain	Deteriorated	Wood	Entry	1			
14	0	Negative	Baseboard	D		Stain	Deteriorated	Wood	Entry	1			
15	0.3	Negative	Clos. Wall	Clos. Int (All)		White	Deteriorated	Plaster	Entry	1			
16	0.2	Negative	Clos. Shelf	Clos. Int (All)		White	Deteriorated	Wood	Entry	1			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
17	0.3	Negative	Shelf Bracket	Clos. Int (All)		White	Deteriorated	Wood	Entry	1			
18	0.1	Negative	Clos. Door	Clos. Int (All)		Stain	Deteriorated	Wood	Entry	1			
19	0.2	Negative	Clos. Door Jamb	Clos. Int (All)		Beige	Deteriorated	Wood	Entry	1			
20	0.1	Negative	Clos. Door Stop	Clos. Int (All)		Beige	Deteriorated	Wood	Entry	1			
21	0.1	Negative	Clos. Door Casing	Clos. Int (All)		White	Deteriorated	Wood	Entry	1			
22	0.1	Negative	Clos. Baseboard	Clos. Int (All)		White	Deteriorated	Wood	Entry	1			
23	0	Negative	Clothes Rod	Clos. Int (All)		Stain	Deteriorated	Wood	Entry	1			
24	0.2	Negative	Clos. Ceiling	Clos. Int (All)		White	Deteriorated	Plaster	Entry	1			
25	0	Negative	Clos. Floor	Clos. Int (All)		Stain	Deteriorated	Wood	Entry	1			
26	0.3	Negative	Doorbell	D		White	Deteriorated	Plastic	Entry	1			
27	0.2	Negative	Ledge	D		White	Deteriorated	Wood	Entry	1			
28	**1.7**	**Positive**	**Door**	A		**Black**	**Deteriorated**	**Wood**	**Entry**	**1**	**Friction**	**Yes**	**No**
29	**2.9**	**Positive**	**Door Stile**	A		**White**	**Deteriorated**	**Wood**	**Entry**	**1**	**Impact**	**Yes**	**No**
30	0.2	Negative	Door Casing	A		White	Deteriorated	Wood	Entry	1			
31	**2.1**	**Positive**	**Door Stop**	A		**Black**	**Deteriorated**	**Wood**	**Entry**	**1**	**Impact**	**Yes**	**No**
32	0.4	Negative	Door Jamb Int.	A		White	Deteriorated	Wood	Entry	1			
33	0.5	Negative	Door Jamb Int.	A		White	Deteriorated	Wood	Entry	1			
34	0.5	Negative	Door Jamb Ext.	A		Black	Deteriorated	Metal	Entry	1			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
35	0.3	Negative	Door Storm	A		Black	Deteriorated	Metal	Entry	1			
36	-0.1	Negative	Door Jamb	B		Brown	Deteriorated	Plaster	Entry	1			
37	0	Negative	Door	C		White	Deteriorated	Wood	Entry	1			
38	0.2	Negative	Door Casing	C		White	Deteriorated	Wood	Entry	1			
39	0.2	Negative	Door Stop	C		Black	Deteriorated	Wood	Entry	1			
40	0.2	Negative	Door Jamb	C		White	Deteriorated	Wood	Entry	1			
41	0.2	Negative	Door	D		White	Deteriorated	Wood	Entry	1			
42	0.2	Negative	Door Casing	D		White	Deteriorated	Wood	Entry	1			
43	0.3	Negative	Door Stop	D		White	Deteriorated	Wood	Entry	1			
44	0.3	Negative	Door Jamb	D		White	Deteriorated	Wood	Entry	1			
45	0.4	Negative	Wall	A		Brown	Deteriorated	Plaster	Living Room	2			
46	-0.2	Negative	Wall	B		Brown	Deteriorated	Plaster	Living Room	2			
47	0.5	Negative	Wall	C		Brown	Deteriorated	Plaster	Living Room	2			
48	0.4	Negative	Wall	D		Brown	Deteriorated	Plaster	Living Room	2			
49	0.4	Negative	Ceiling	Ceiling		White	Deteriorated	Plaster	Living Room	2			
50	0.2	Negative	Floor	Floor		Stain	Deteriorated	Wood	Living Room	2			
51	0.4	Negative	Wall Register	A		White	Deteriorated	Metal	Living Room	2			
52	0.4	Negative	Wall Register	B		White	Deteriorated	Metal	Living Room	2			
53	0.3	Negative	Wall Register	C		White	Deteriorated	Metal	Living Room	2			
54	0.5	Negative	Baseboard	A		White	Deteriorated	Wood	Living Room	2			
55	0.6	Negative	Baseboard	B		White	Deteriorated	Wood	Living Room	2			
56	0	Negative	Baseboard	C		White	Deteriorated	Wood	Living Room	2			
57	0.5	Negative	Baseboard	D		White	Deteriorated	Wood	Living Room	2			
58	0.6	Negative	Crown Molding	A		White	Deteriorated	Wood	Living Room	2			
59	0.6	Negative	Crown Molding	B		White	Deteriorated	Wood	Living Room	2			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
60	0.5	Negative	Crown Molding	C		White	Deteriorated	Wood	Living Room	2			
61	0.5	Negative	Crown Molding	D		White	Deteriorated	Wood	Living Room	2			
62	0.4	Negative	Fireplace	B		White	Deteriorated	Wood	Living Room	2			
63	0.3	Negative	Fireplace Mantle	B		White	Deteriorated	Wood	Living Room	2			
64	0.3	Negative	Fireplace trim	B		White	Deteriorated	Wood	Living Room	2			
65	**2.9**	**Positive**	**Win. Casing**	**A**	**1**	**White**	**Deteriorated**	**Wood**	**Living Room**	**2**	**Impact**	**Yes**	**No**
66	0.3	Negative	Win. Sill-Stool	A	1	White	Deteriorated	Wood	Living Room	2			
67	0.3	Negative	Win. Stop Int.	A	1	White	Deteriorated	Wood	Living Room	2			
68	0.2	Negative	Win. Apron	A	1	White	Deteriorated	Wood	Living Room	2			
69	0.2	Negative	Win. Sash Int.	A	1	White	Deteriorated	Wood	Living Room	2			
70	0.2	Negative	Win. Mullion	A	1	White	Deteriorated	Wood	Living Room	2			
71	0.1	Negative	Win. Casing	A	2	White	Deteriorated	Wood	Living Room	2			
72	0.2	Negative	Win. Sill-Stool	A	2	White	Deteriorated	Wood	Living Room	2			
73	0.3	Negative	Win. Stop Int.	A	2	White	Deteriorated	Wood	Living Room	2			
74	0.3	Negative	Win. Apron	A	2	White	Deteriorated	Wood	Living Room	2			
75	0.3	Negative	Win. Sash Int.	A	2	White	Deteriorated	Wood	Living Room	2			
76	0.2	Negative	Win. Mullion	A	2	White	Deteriorated	Wood	Living Room	2			
77	**6.2**	**Positive**	**Win. Casing**	**A**	**3**	**White**	**Deteriorated**	**Wood**	**Living Room**	**2**	**Impact**	**Yes**	**No**
78	0.3	Negative	Win. Sill-Stool	A	3	White	Deteriorated	Wood	Living Room	2			
79	0.2	Negative	Win. Stop Int.	A	3	White	Deteriorated	Wood	Living Room	2			
80	0.1	Negative	Win. Apron	A	3	White	Deteriorated	Wood	Living Room	2			
81	0.2	Negative	Win. Sash Int.	A	3	White	Deteriorated	Wood	Living Room	2			
82	0.2	Negative	Win. Mullion	A	3	White	Deteriorated	Wood	Living Room	2			
83	0.4	Negative	Win. Stop Int.	B	1	Brown	Deteriorated	Wood	Living Room	2			
84	0.2	Negative	Win. Shutters	B	1	Beige	Deteriorated	Wood	Living Room	2			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
85	0.5	Negative	Win. Stop Int.	B	2	Brown	Deteriorated	Wood	Living Room	2			
86	0.1	Negative	Win. Shutters	B	2	Beige	Deteriorated	Wood	Living Room	2			
87	0.5	Negative	Door Jamb	C		Brown	Deteriorated	Plaster	Living Room	2			
88	1.8	Positive	Win. Sash Ext.	A	1	White	Deteriorated	Wood	Living Room	2	Weather	Yes	No
89	1.8	Positive	Win. Stop Ext.	A	1	White	Deteriorated	Metal	Living Room	2	Weather	Yes	No
90	1.8	Positive	Win. Part Bead	A	1	White	Deteriorated	Metal	Living Room	2	Friction	Yes	No
91	1.8	Positive	Win. Well-Trough	A	1	White	Deteriorated	Wood	Living Room	2	Weather	Yes	No
92	1.6	Positive	Win. Sash Ext.	A	2	White	Deteriorated	Wood	Living Room	2	Weather	Yes	No
93	1.6	Positive	Win. Stop Ext.	A	2	White	Deteriorated	Metal	Living Room	2	Weather	Yes	No
94	1.5	Positive	Win. Part Bead	A	2	White	Deteriorated	Metal	Living Room	2	Friction	Yes	No
95	1.6	Positive	Win. Well-Trough	A	2	White	Deteriorated	Wood	Living Room	2	Weather	Yes	No
96	1.5	Positive	Win. Sash Ext.	A	3	White	Deteriorated	Wood	Living Room	2	Weather	Yes	No
97	1.6	Positive	Win. Stop Ext.	A	3	White	Deteriorated	Metal	Living Room	2	Weather	Yes	No
98	1.7	Positive	Win. Part Bead	A	3	White	Deteriorated	Metal	Living Room	2	Friction	Yes	No
99	1.6	Positive	Win. Well-Trough	A	3	White	Deteriorated	Wood	Living Room	2	Weather	Yes	No
100	0.3	Negative	Upper Wall	A		Brown	Deteriorated	Plaster	Dining Room	3			
101	0.3	Negative	Upper Wall	B		Brown	Deteriorated	Plaster	Dining Room	3			
102	0.2	Negative	Upper Wall	C		Brown	Deteriorated	Plaster	Dining Room	3			
103	0.3	Negative	Upper Wall	D		Brown	Deteriorated	Plaster	Dining Room	3			
104	0.4	Negative	Lower Wall	A		Brown	Deteriorated	Plaster	Dining Room	3			
105	0.3	Negative	Lower Wall	B		Brown	Deteriorated	Plaster	Dining Room	3			
106	0	Negative	Lower Wall	C		Brown	Deteriorated	Plaster	Dining Room	3			
107	0.5	Negative	Lower Wall	D		Brown	Deteriorated	Plaster	Dining Room	3			
108	0.2	Negative	Ceiling	Ceiling		White	Deteriorated	Plaster	Dining Room	3			
109	0.1	Negative	Floor	Floor		Stain	Deteriorated	Wood	Dining Room	3			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
110	0.3	Negative	Wall Register	C		White	Deteriorated	Metal	Dining Room	3			
111	0.4	Negative	Wall Register	D		White	Deteriorated	Metal	Dining Room	3			
112	0.1	Negative	Baseboard	A		White	Deteriorated	Wood	Dining Room	3			
113	0.4	Negative	Baseboard	B		White	Deteriorated	Wood	Dining Room	3			
114	0.3	Negative	Baseboard	C		White	Deteriorated	Wood	Dining Room	3			
115	0.4	Negative	Baseboard	D		White	Deteriorated	Wood	Dining Room	3			
116	0.3	Negative	Crown Molding	A		White	Deteriorated	Wood	Dining Room	3			
117	0.4	Negative	Crown Molding	B		White	Deteriorated	Wood	Dining Room	3			
118	0.3	Negative	Crown Molding	C		White	Deteriorated	Wood	Dining Room	3			
119	0.4	Negative	Crown Molding	D		White	Deteriorated	Wood	Dining Room	3			
120	0.3	Negative	Chair Rail	A		White	Deteriorated	Wood	Dining Room	3			
121	0.3	Negative	Chair Rail	B		White	Deteriorated	Wood	Dining Room	3			
122	0.3	Negative	Chair Rail	C		White	Deteriorated	Wood	Dining Room	3			
123	0.3	Negative	Chair Rail	D		White	Deteriorated	Wood	Dining Room	3			
124	**2**	**Positive**	**Door**	**C**		**White**	**Deteriorated**	**Wood**	**Dining Room**	**3**	Friction	Yes	No
125	0.1	Negative	Door Casing	C		White	Deteriorated	Wood	Dining Room	3			
126	**2.3**	**Positive**	**Door Stop**	**C**		**White**	**Deteriorated**	**Wood**	**Dining Room**	**3**	Impact	Yes	No
127	0.5	Negative	Door Jamb	C		White	Deteriorated	Wood	Dining Room	3			
128	0.4	Negative	Door Threshold	C		White	Deteriorated	Concrete	Dining Room	3			
129	**3.4**	**Positive**	**Door Stile**	**C**		**White**	**Deteriorated**	**Wood**	**Dining Room**	**3**	Impact	Yes	No
130	0.3	Negative	Door Storm	C		Black	Deteriorated	Metal	Dining Room	3			
131	0.1	Negative	Door	D		Stain	Deteriorated	Wood	Dining Room	3			
132	0.2	Negative	Door Casing	D		White	Deteriorated	Wood	Dining Room	3			
133	0.2	Negative	Door Stop	D		White	Deteriorated	Wood	Dining Room	3			
134	0.3	Negative	Door Jamb	D		White	Deteriorated	Wood	Dining Room	3			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
135	0.1	Negative	Win. Casing	C	1	White	Deteriorated	Wood	Dining Room	3			
136	0.3	Negative	Win. Sill-Stool	C	1	White	Deteriorated	Wood	Dining Room	3			
137	0.1	Negative	Win. Stop Int.	C	1	White	Deteriorated	Wood	Dining Room	3			
138	0.2	Negative	Win. Apron	C	1	White	Deteriorated	Wood	Dining Room	3			
139	0.2	Negative	Win. Sash Int.	C	1	White	Deteriorated	Wood	Dining Room	3			
140	0.2	Negative	Win. Mullion	C	1	White	Deteriorated	Wood	Dining Room	3			
141	0.1	Negative	Win. Casing	C	2	White	Deteriorated	Wood	Dining Room	3			
142	0.3	Negative	Win. Sill-Stool	C	2	White	Deteriorated	Wood	Dining Room	3			
143	0.3	Negative	Win. Stop Int.	C	2	White	Deteriorated	Wood	Dining Room	3			
144	0.1	Negative	Win. Apron	C	2	White	Deteriorated	Wood	Dining Room	3			
145	0.2	Negative	Win. Sash Int.	C	2	White	Deteriorated	Wood	Dining Room	3			
146	0.2	Negative	Win. Mullion	C	2	White	Deteriorated	Wood	Dining Room	3			
147	2.1	Positive	Win. Sash Ext.	C	1	White	Deteriorated	Wood	Dining Room	3	Weather	Yes	No
148	2.4	Positive	Win. Stop Ext.	C	1	White	Deteriorated	Metal	Dining Room	3	Weather	Yes	No
149	2.5	Positive	Win. Part Bead	C	1	White	Deteriorated	Metal	Dining Room	3	Friction	Yes	No
150	2.4	Positive	Win. Well-Trough	C	1	White	Deteriorated	Wood	Dining Room	3	Weather	Yes	No
151	2.4	Positive	Win. Sash Ext.	C	2	White	Deteriorated	Wood	Dining Room	3	Weather	Yes	No
152	2.4	Positive	Win. Stop Ext.	C	2	White	Deteriorated	Metal	Dining Room	3	Weather	Yes	No
153	2.5	Positive	Win. Part Bead	C	2	White	Deteriorated	Metal	Dining Room	3	Friction	Yes	No
154	2.3	Positive	Win. Well-Trough	C	2	White	Deteriorated	Wood	Dining Room	3	Weather	Yes	No
155	2.2	Positive	Ceiling	Ceiling		White	Deteriorated	Wood	Enclosed Porch	4	Moisture	No	No
156	1.5	Positive	Crown Molding	A		White	Deteriorated	Wood	Enclosed Porch	4	Moisture	No	No
157	0.2	Negative	Crown Molding	B		White	Deteriorated	Wood	Enclosed Porch	4			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
158	0.2	Negative	Crown Molding	C		White	Deteriorated	Wood	Enclosed Porch	4			
159	0.1	Negative	Crown Molding	D		White	Deteriorated	Wood	Enclosed Porch	4			
160	0	Negative	Baseboard	B		White	Deteriorated	Wood	Enclosed Porch	4			
161	0.3	Negative	Baseboard	C		White	Deteriorated	Wood	Enclosed Porch	4			
162	0.2	Negative	Baseboard	D		White	Deteriorated	Wood	Enclosed Porch	4			
163	2.5	Positive	Corner Wall Casing	All		White	Deteriorated	Wood	Enclosed Porch	4	Moisture	No	No
164	2.1	Positive	Corner Wall Casing	All		White	Deteriorated	Wood	Enclosed Porch	4	Moisture	No	No
165	2	Positive	Door Casing	A		White	Deteriorated	Wood	Enclosed Porch	4	Impact	Yes	No
166	1.6	Positive	Door Lintel	A		White	Deteriorated	Metal	Enclosed Porch	4	Moisture	Yes	No
167	-0.1	Negative	Door Casing	D		White	Deteriorated	Metal	Enclosed Porch	4			
168	0.1	Negative	Door Lintel	D		White	Deteriorated	Metal	Enclosed Porch	4			
169	2.5	Positive	Win. Casing	A	1	White	Deteriorated	Metal	Enclosed Porch	4	Impact	Yes	No
170	2.8	Positive	Win. Casing	A	2	White	Deteriorated	Metal	Enclosed Porch	4	Impact	Yes	No
171	0.6	Negative	Wall	A		Beige	Deteriorated	Plaster	Kitchen	5			
172	0.6	Negative	Wall	B		Beige	Deteriorated	Plaster	Kitchen	5			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
173	0.1	Negative	Wall	C		Beige	Deteriorated	Plaster	Kitchen	5			
174	0.2	Negative	Wall	D		Beige	Deteriorated	Plaster	Kitchen	5			
175	0.5	Negative	Ceiling	Ceiling		Beige	Deteriorated	Plaster	Kitchen	5			
176	0.5	Negative	Bulkhead	A		Beige	Deteriorated	Plaster	Kitchen	5			
177	0.4	Negative	Bulkhead	B		Beige	Deteriorated	Plaster	Kitchen	5			
178	0.4	Negative	Bulkhead	C		Beige	Deteriorated	Plaster	Kitchen	5			
179	0.4	Negative	Bulkhead	D		Beige	Deteriorated	Plaster	Kitchen	5			
180	-0.2	Negative	Baseboard	A		Black	Deteriorated	Wood	Kitchen	5			
181	0.1	Negative	Baseboard	B		Black	Deteriorated	Wood	Kitchen	5			
182	-0.1	Negative	Baseboard	C		Black	Deteriorated	Wood	Kitchen	5			
183	0.1	Negative	Baseboard	D		Black	Deteriorated	Wood	Kitchen	5			
184	0.2	Negative	Shoe Mold	A		Black	Deteriorated	Wood	Kitchen	5			
185	0.2	Negative	Shoe Mold	B		Black	Deteriorated	Wood	Kitchen	5			
186	0.1	Negative	Shoe Mold	C		Black	Deteriorated	Wood	Kitchen	5			
187	0.1	Negative	Shoe Mold	D		Black	Deteriorated	Wood	Kitchen	5			
188	0.2	Negative	Clos. Wall	Clos. Int (All)		Brown	Deteriorated	Plaster	Kitchen	5			
189	**4.2**	**Positive**	**Clos. Shelf**	**Clos. Int (All)**		**Beige**	**Deteriorated**	**Wood**	**Kitchen**	**5**	**Impact**	**Yes**	**No**
190	0.9	Negative	Shelf Bracket	Clos. Int (All)		Beige	Deteriorated	Wood	Kitchen	5			
191	0.3	Negative	Shelf Bracket	Clos. Int (All)		Beige	Deteriorated	Wood	Kitchen	5			
192	**4.5**	**Positive**	**Shelf Bracket**	**Clos. Int (All)**		**Beige**	**Deteriorated**	**Wood**	**Kitchen**	**5**	**Impact**	**No**	**No**
193	0.2	Negative	Clos. Door	Clos. Int (All)		Stain	Deteriorated	Wood	Kitchen	5			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
194	0.3	Negative	Clos. Door Jamb	Clos. Int (All)		Black	Deteriorated	Wood	Kitchen	5			
195	0.3	Negative	Clos. Door Stop	Clos. Int (All)		Beige	Deteriorated	Wood	Kitchen	5			
196	0.1	Negative	Clos. Door Casing	Clos. Int (All)		Black	Deteriorated	Wood	Kitchen	5			
197	0.4	Negative	Clos. Ceiling	Clos. Int (All)		Brown	Deteriorated	Plaster	Kitchen	5			
198	0.3	Negative	Clos. Floor	Clos. Int (All)		Beige	Deteriorated	Wood	Kitchen	5			
199	0.4	Negative	Cabinet	A		Beige	Deteriorated	Wood	Kitchen	5			
200	0.4	Negative	Cabinet Door	A		Beige	Deteriorated	Wood	Kitchen	5			
201	0.3	Negative	Cabinet Shelf	A		Beige	Deteriorated	Wood	Kitchen	5			
202	0.3	Negative	Cabinet Trim	A		Black	Deteriorated	Wood	Kitchen	5			
203	0.3	Negative	Cabinet	B		Beige	Deteriorated	Wood	Kitchen	5			
204	0.4	Negative	Cabinet Door	B		Beige	Deteriorated	Wood	Kitchen	5			
205	0.4	Negative	Cabinet Shelf	B		Beige	Deteriorated	Wood	Kitchen	5			
206	0.3	Negative	Cabinet Trim	B		Black	Deteriorated	Wood	Kitchen	5			
207	0.3	Negative	Cabinet	C		Beige	Deteriorated	Wood	Kitchen	5			
208	0.3	Negative	Cabinet Door	C		Beige	Deteriorated	Wood	Kitchen	5			
209	0.3	Negative	Cabinet Drawer	C		Beige	Deteriorated	Wood	Kitchen	5			
210	0.3	Negative	Cabinet Shelf	C		Beige	Deteriorated	Wood	Kitchen	5			
211	0.1	Negative	Cabinet Trim	C		Black	Deteriorated	Wood	Kitchen	5			
212	0.3	Negative	Cabinet	D		Beige	Deteriorated	Wood	Kitchen	5			
213	0.3	Negative	Cabinet Door	D		Beige	Deteriorated	Wood	Kitchen	5			
214	0.3	Negative	Cabinet Shelf	D		Beige	Deteriorated	Wood	Kitchen	5			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
215	0.2	Negative	Cabinet Trim	D		Black	Deteriorated	Wood	Kitchen	5			
216	0.2	Negative	Wall Casing	B		Black	Deteriorated	Wood	Kitchen	5			
217	0.2	Negative	Wall Casing	D		Black	Deteriorated	Wood	Kitchen	5			
218	4.6	Positive	Door Casing	A		Black	Deteriorated	Wood	Kitchen	5	Impact	Yes	No
219	0.2	Negative	Door Casing	B		Black	Deteriorated	Wood	Kitchen	5			
220	0.3	Negative	Door Stop	B		Black	Deteriorated	Wood	Kitchen	5			
221	0.2	Negative	Door	D		Stain	Deteriorated	Wood	Kitchen	5			
222	0.3	Negative	Door Casing	D		Black	Deteriorated	Wood	Kitchen	5			
223	0.4	Negative	Door Stop	D		Black	Deteriorated	Wood	Kitchen	5			
224	0.2	Negative	Door Jamb	D		Black	Deteriorated	Wood	Kitchen	5			
225	1.2	Positive	Win. Casing	C		Black	Deteriorated	Wood	Kitchen	5	Impact	Yes	No
226	0.3	Negative	Win. Sill-Stool	C		Black	Deteriorated	Wood	Kitchen	5			
227	0.3	Negative	Win. Stop Int.	C		Black	Deteriorated	Wood	Kitchen	5			
228	0.3	Negative	Win. Apron	C		Black	Deteriorated	Wood	Kitchen	5			
229	0.3	Negative	Win. Sash Int.	C		Beige	Deteriorated	Wood	Kitchen	5			
230	2.5	Positive	Win. Sash Ext.	C		White	Deteriorated	Wood	Kitchen	5	Weather	Yes	No
231	2.4	Positive	Win. Stop Ext.	C		White	Deteriorated	Metal	Kitchen	5	Weather	Yes	No
232	2.6	Positive	Win. Part Bead	C		White	Deteriorated	Metal	Kitchen	5	Friction	Yes	No
233	2.4	Positive	Win. Well-Trough	C		White	Deteriorated	Wood	Kitchen	5	Weather	Yes	No
234	1	Positive	Calibrate										
235	1	Positive	Calibrate										
236	1	Positive	Calibrate										
237	0.4	Negative	Upper Wall	A		White	Deteriorated	Plaster	Bathroom	6			
238	0	Negative	Upper Wall	B		White	Deteriorated	Plaster	Bathroom	6			
239	0.5	Negative	Upper Wall	C		White	Deteriorated	Plaster	Bathroom	6			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
240	-0.1	Negative	Upper Wall	D		White	Deteriorated	Plaster	Bathroom	6			
241	0.6	Negative	Lower Wall	A		White	Deteriorated	Plaster	Bathroom	6			
242	0.5	Negative	Lower Wall	B		White	Deteriorated	Plaster	Bathroom	6			
243	0.4	Negative	Lower Wall	C		White	Deteriorated	Plaster	Bathroom	6			
244	0.4	Negative	Lower Wall	D		White	Deteriorated	Plaster	Bathroom	6			
245	0.4	Negative	Ceiling	Ceiling		White	Deteriorated	Plaster	Bathroom	6			
246	0.3	Negative	Wall Register	B		White	Deteriorated	Metal	Bathroom	6			
247	0.4	Negative	Baseboard	A		White	Deteriorated	Wood	Bathroom	6			
248	0.4	Negative	Baseboard	B		White	Deteriorated	Wood	Bathroom	6			
249	0.3	Negative	Baseboard	C		White	Deteriorated	Wood	Bathroom	6			
250	0.3	Negative	Baseboard	D		White	Deteriorated	Wood	Bathroom	6			
251	**1**	**Positive**	**Wall Casing**	**A**		**Grey**	**Deteriorated**	**Wood**	**Bathroom**	**6**	**Impact**	**No**	**No**
252	0.8	Negative	Wall Casing	B		Grey	Deteriorated	Wood	Bathroom	6			
253	0.6	Negative	Wall Casing	C		Grey	Deteriorated	Wood	Bathroom	6			
254	0.8	Negative	Wall Casing	D		Grey	Deteriorated	Wood	Bathroom	6			
255	0.1	Negative	Pipe	C		White	Deteriorated	Metal	Bathroom	6			
256	0.1	Negative	Door	A		Stain	Deteriorated	Wood	Bathroom	6			
257	0.1	Negative	Door Casing	A		White	Deteriorated	Wood	Bathroom	6			
258	0.2	Negative	Door Stop	A		White	Deteriorated	Wood	Bathroom	6			
259	0.5	Negative	Door Jamb	A		Black	Deteriorated	Wood	Bathroom	6			
260	0	Negative	Win. Casing	D		White	Deteriorated	Wood	Bathroom	6			
261	0.2	Negative	Win. Sill-Stool	D		White	Deteriorated	Wood	Bathroom	6			
262	0.1	Negative	Win. Stop Int.	D		White	Deteriorated	Wood	Bathroom	6			
263	0.1	Negative	Win. Apron	D		White	Deteriorated	Wood	Bathroom	6			
264	0.2	Negative	Win. Sash Int.	D		White	Deteriorated	Wood	Bathroom	6			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
265	1.2	Positive	Win. Sash Ext.	D		White	Deteriorated	Wood	Bathroom	6	Weather	Yes	No
266	1.2	Positive	Win. Stop Ext.	D		White	Deteriorated	Metal	Bathroom	6	Weather	Yes	No
267	1.2	Positive	Win. Part Bead	D		White	Deteriorated	Metal	Bathroom	6	Friction	Yes	No
268	1.4	Positive	Win. Well-Trough	D		White	Deteriorated	Wood	Bathroom	6	Weather	Yes	No
269	0.5	Negative	Wall	A		White	Deteriorated	Plaster	Living Room	7			
270	0.8	Negative	Wall	B		White	Deteriorated	Brick	Living Room	7			
271	-0.2	Negative	Wall	C		Stain	Deteriorated	Wood	Living Room	7			
272	-0.3	Negative	Wall	D		White	Deteriorated	Plaster	Living Room	7			
273	0.4	Negative	Ceiling	Ceiling		White	Deteriorated	Plaster	Living Room	7			
274	0.2	Negative	Floor	Floor		Stain	Deteriorated	Wood	Living Room	7			
275	0.4	Negative	Baseboard	A		Stain	Deteriorated	Wood	Living Room	7			
276	0.1	Negative	Baseboard	B		Stain	Deteriorated	Wood	Living Room	7			
277	0.3	Negative	Baseboard	C		Stain	Deteriorated	Wood	Living Room	7			
278	0.1	Negative	Baseboard	D		Stain	Deteriorated	Wood	Living Room	7			
279	0.4	Negative	Crown Molding	B		White	Deteriorated	Wood	Living Room	7			
280	0.1	Negative	Crown Molding	C		Stain	Deteriorated	Wood	Living Room	7			
281	0.1	Negative	Wainscoting	A		Stain	Deteriorated	Wood	Living Room	7			
282	0.2	Negative	Wainscoting	D		Stain	Deteriorated	Wood	Living Room	7			
283	0.2	Negative	Chair Rail	A		Stain	Deteriorated	Wood	Living Room	7			
284	0.1	Negative	Chair Rail	D		Stain	Deteriorated	Wood	Living Room	7			
285	0.2	Negative	Floor	Floor		Stain	Deteriorated	Wood	Living Room	7			
286	0.1	Negative	Cabinet	C		Stain	Deteriorated	Wood	Living Room	7			
287	0.1	Negative	Cabinet Casing	C		Stain	Deteriorated	Wood	Living Room	7			
288	0.1	Negative	Cabinet Door	C		Stain	Deteriorated	Wood	Living Room	7			
289	0	Negative	Cabinet Shelf	C		Stain	Deteriorated	Wood	Living Room	7			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
290	0.1	Negative	Cabinet Trim	C		Stain	Deteriorated	Wood	Living Room	7			
291	0.3	Negative	Door Casing	B		White	Deteriorated	Wood	Living Room	7			
292	0.2	Negative	Win. Casing	A		White	Deteriorated	Wood	Living Room	7			
293	0.1	Negative	Win. Sill-Stool	A		White	Deteriorated	Wood	Living Room	7			
294	0.2	Negative	Win. Stop Int.	A		White	Deteriorated	Wood	Living Room	7			
295	0.2	Negative	Win. Sash Int.	A		White	Deteriorated	Wood	Living Room	7			
296	0.2	Negative	Win. Casing	C		White	Deteriorated	Wood	Living Room	7			
297	0.1	Negative	Win. Sill-Stool	C		White	Deteriorated	Wood	Living Room	7			
298	0.2	Negative	Win. Stop Int.	C		White	Deteriorated	Wood	Living Room	7			
299	0.2	Negative	Win. Sash Int.	C		White	Deteriorated	Wood	Living Room	7			
300	2.7	Positive	Win. Sash Ext.	A		White	Deteriorated	Wood	Living Room	7	Weather	Yes	No
301	2.3	Positive	Win. Stop Ext.	A		White	Deteriorated	Metal	Living Room	7	Weather	Yes	No
302	2.5	Positive	Win. Part Bead	A		White	Deteriorated	Metal	Living Room	7	Friction	Yes	No
303	2.3	Positive	Win. Well-Trough	A		White	Deteriorated	Wood	Living Room	7	Weather	Yes	No
304	2.4	Positive	Win. Sash Ext.	C		White	Deteriorated	Wood	Living Room	7	Weather	Yes	No
305	2.7	Positive	Win. Stop Ext.	C		White	Deteriorated	Metal	Living Room	7	Weather	Yes	No
306	2.4	Positive	Win. Part Bead	C		White	Deteriorated	Metal	Living Room	7	Friction	Yes	No
307	2.4	Positive	Win. Well-Trough	C		White	Deteriorated	Wood	Living Room	7	Weather	Yes	No
308	-0.2	Negative	Wall	A		White	Deteriorated	Plaster	Stairwell	8			
309	0.5	Negative	Wall	B		White	Deteriorated	Plaster	Stairwell	8			
310	0.6	Negative	Wall	C		White	Deteriorated	Plaster	Stairwell	8			
311	0.4	Negative	Wall	D		White	Deteriorated	Plaster	Stairwell	8			
312	0.3	Negative	Ceiling	Ceiling		White	Deteriorated	Plaster	Stairwell	8			
313	0.1	Negative	Floor	Floor		Stain	Deteriorated	Wood	Stairwell	8			
314	0.1	Negative	Stair Riser	All		White	Deteriorated	Wood	Stairwell	8			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
315	0.2	Negative	Stair Stringer	All		White	Deteriorated	Wood	Stairwell	8			
316	0.1	Negative	Stair Tread	All		Stain	Deteriorated	Wood	Stairwell	8			
317	0.4	Negative	Railing	All		White	Deteriorated	Metal	Stairwell	8			
318	0.1	Negative	Railing	All		Stain	Deteriorated	Wood	Stairwell	8			
319	0.2	Negative	Baluster	All		White	Deteriorated	Metal	Stairwell	8			
320	0.4	Negative	Newel Post	All		White	Deteriorated	Metal	Stairwell	8			
321	0.2	Negative	Stair Baseboard	B		White	Deteriorated	Wood	Stairwell	8			
322	0.2	Negative	Stair Baseboard	C		White	Deteriorated	Wood	Stairwell	8			
323	0.2	Negative	Stair Baseboard	D		White	Deteriorated	Wood	Stairwell	8			
324	0.2	Negative	Cabinet Casing	C		White	Deteriorated	Wood	Stairwell	8			
325	0.2	Negative	Cabinet Shelf	C		White	Deteriorated	Wood	Stairwell	8			
326	0	Negative	Win. Casing	D		White	Deteriorated	Wood	Stairwell	8			
327	0.2	Negative	Win. Sill-Stool	D		White	Deteriorated	Wood	Stairwell	8			
328	0.3	Negative	Win. Stop Int.	D		White	Deteriorated	Wood	Stairwell	8			
329	0.3	Negative	Win. Apron	D		White	Deteriorated	Wood	Stairwell	8			
330	0.2	Negative	Win. Sash Int.	D		White	Deteriorated	Wood	Stairwell	8			
331	**1**	**Positive**	**Calibrate**										
332	**1.1**	**Positive**	**Calibrate**										
333	**1**	**Positive**	**Calibrate**										
334	**1**	**Positive**	**Calibrate**										
335	**1**	**Positive**	**Calibrate**										
336	**1**	**Positive**	**Calibrate**										
337	0.1	Negative	Wall	A		White	Deteriorated	Plaster	Hallway	9			
338	0.6	Negative	Wall	B		White	Deteriorated	Plaster	Hallway	9			
339	0.5	Negative	Wall	C		White	Deteriorated	Plaster	Hallway	9			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
340	0.5	Negative	Wall	D		White	Deteriorated	Plaster	Hallway	9			
341	0.3	Negative	Ceiling	Ceiling		White	Deteriorated	Plaster	Hallway	9			
342	0.1	Negative	Floor	Floor		Stain	Deteriorated	Wood	Hallway	9			
343	0	Negative	Baseboard	A		White	Deteriorated	Wood	Hallway	9			
344	0.6	Negative	Baseboard	B		White	Deteriorated	Wood	Hallway	9			
345	0.7	Negative	Baseboard	C		White	Deteriorated	Wood	Hallway	9			
346	0.6	Negative	Baseboard	D		White	Deteriorated	Wood	Hallway	9			
347	0	Negative	Clos. Wall	Clos. Int (All)		White	Deteriorated	Plaster	Hallway	9			
348	0.4	Negative	Clos. Shelf	Clos. Int (All)		White	Deteriorated	Wood	Hallway	9			
349	0.1	Negative	Shelf Bracket	Clos. Int (All)		White	Deteriorated	Wood	Hallway	9			
350	0.3	Negative	Clos. Door	Clos. Int (All)		Stain	Deteriorated	Wood	Hallway	9			
351	0.3	Negative	Clos. Door Jamb	Clos. Int (All)		White	Deteriorated	Wood	Hallway	9			
352	0.1	Negative	Clos. Door Stop	Clos. Int (All)		White	Deteriorated	Wood	Hallway	9			
353	0.2	Negative	Clos. Door Casing	Clos. Int (All)		White	Deteriorated	Wood	Hallway	9			
354	0.2	Negative	Clos. Baseboard	Clos. Int (All)		White	Deteriorated	Wood	Hallway	9			
355	0.2	Negative	Clos. Ceiling	Clos. Int (All)		White	Deteriorated	Plaster	Hallway	9			
356	0.3	Negative	Clos. Floor	Clos. Int (All)		Stain	Deteriorated	Wood	Hallway	9			
357	0.2	Negative	Door	A		Stain	Deteriorated	Wood	Hallway	9			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
358	0.2	Negative	Door Casing	A		White	Deteriorated	Wood	Hallway	9			
359	0.2	Negative	Door Stop	A		White	Deteriorated	Wood	Hallway	9			
360	0.1	Negative	Door Jamb	A		White	Deteriorated	Wood	Hallway	9			
361	0	Negative	Door	B	1	Stain	Deteriorated	Wood	Hallway	9			
362	0.2	Negative	Door Casing	B	1	White	Deteriorated	Wood	Hallway	9			
363	0.3	Negative	Door Stop	B	1	White	Deteriorated	Wood	Hallway	9			
364	0.2	Negative	Door Jamb	B	1	White	Deteriorated	Wood	Hallway	9			
365	0.1	Negative	Door	B	2	Stain	Deteriorated	Wood	Hallway	9			
366	0.2	Negative	Door Casing	B	2	White	Deteriorated	Wood	Hallway	9			
367	0.2	Negative	Door Stop	B	2	White	Deteriorated	Wood	Hallway	9			
368	0.2	Negative	Door Jamb	B	2	White	Deteriorated	Wood	Hallway	9			
369	0.1	Negative	Door	C		Stain	Deteriorated	Wood	Hallway	9			
370	0.2	Negative	Door Casing	C		White	Deteriorated	Wood	Hallway	9			
371	0.2	Negative	Door Stop	C		White	Deteriorated	Wood	Hallway	9			
372	0.1	Negative	Door Jamb	C		White	Deteriorated	Wood	Hallway	9			
373	0.6	Negative	Wall	A		Grey	Deteriorated	Plaster	Bathroom	10			
374	0.5	Negative	Wall	B		Grey	Deteriorated	Plaster	Bathroom	10			
375	0.5	Negative	Wall	C		Grey	Deteriorated	Plaster	Bathroom	10			
376	0.5	Negative	Wall	D		Grey	Deteriorated	Plaster	Bathroom	10			
377	0.4	Negative	Ceiling	Ceiling		Grey	Deteriorated	Plaster	Bathroom	10			
378	0.2	Negative	Wall Register	B		White	Deteriorated	Metal	Bathroom	10			
379	0.1	Negative	Cabinet	B		Brown	Deteriorated	Wood	Bathroom	10			
380	0	Negative	Cabinet Door	B		Brown	Deteriorated	Wood	Bathroom	10			
381	0.2	Negative	Cabinet	B		White	Deteriorated	Wood	Bathroom	10			
382	0.2	Negative	Cabinet Door	B		White	Deteriorated	Wood	Bathroom	10			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
383	0.1	Negative	Cabinet Casing	B		White	Deteriorated	Wood	Bathroom	10			
384	0.1	Negative	Door Casing	A		White	Deteriorated	Wood	Bathroom	10			
385	0.2	Negative	Win. Casing	C		White	Deteriorated	Wood	Bathroom	10			
386	0.1	Negative	Win. Sill-Stool	C		White	Deteriorated	Wood	Bathroom	10			
387	0	Negative	Win. Stop Int.	C		White	Deteriorated	Wood	Bathroom	10			
388	0	Negative	Win. Sash Int.	C		White	Deteriorated	Wood	Bathroom	10			
389	**1.4**	**Positive**	**Win. Sash Ext.**	**C**		**White**	**Deteriorated**	**Wood**	**Bathroom**	**10**	**Weather**	**Yes**	**No**
390	**1.3**	**Positive**	**Win. Stop Ext.**	**C**		**White**	**Deteriorated**	**Metal**	**Bathroom**	**10**	**Weather**	**Yes**	**No**
391	**1.2**	**Positive**	**Win. Part Bead**	**C**		**White**	**Deteriorated**	**Metal**	**Bathroom**	**10**	**Friction**	**Yes**	**No**
392	**1.4**	**Positive**	**Win. Well-Trough**	**C**		**White**	**Deteriorated**	**Wood**	**Bathroom**	**10**	**Weather**	**Yes**	**No**
393	0.2	Negative	Win. Mullion	C		White	Deteriorated	Wood	Bathroom	10			
394	0.6	Negative	Wall	A		Purple	Deteriorated	Plaster	Bedroom	11			
395	0.5	Negative	Wall	B		Purple	Deteriorated	Plaster	Bedroom	11			
396	-0.2	Negative	Wall	C		Purple	Deteriorated	Plaster	Bedroom	11			
397	0.6	Negative	Wall	D		Purple	Deteriorated	Plaster	Bedroom	11			
398	0.4	Negative	Ceiling	Ceiling		White	Deteriorated	Plaster	Bedroom	11			
399	0.1	Negative	Floor	Floor		Stain	Deteriorated	Wood	Bedroom	11			
400	0.3	Negative	Wall Register	All		White	Deteriorated	Metal	Bedroom	11			
401	0.1	Negative	Baseboard	A		White	Deteriorated	Wood	Bedroom	11			
402	0.2	Negative	Baseboard	B		White	Deteriorated	Wood	Bedroom	11			
403	0.3	Negative	Baseboard	C		White	Deteriorated	Wood	Bedroom	11			
404	0.2	Negative	Baseboard	D		White	Deteriorated	Wood	Bedroom	11			
405	0.4	Negative	Clos. Wall	Clos. Int (All)		Beige	Deteriorated	Plaster	Bedroom	11			
406	0.2	Negative	Clos. Shelf	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	11			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
407	0.1	Negative	Shelf Bracket	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	11			
408	0.2	Negative	Clos. Door	Clos. Int (All)		Stain	Deteriorated	Wood	Bedroom	11			
409	0.2	Negative	Clos. Door Jamb	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	11			
410	0.3	Negative	Clos. Door Stop	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	11			
411	0.2	Negative	Clos. Door Casing	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	11			
412	0.3	Negative	Clos. Baseboard	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	11			
413	0.2	Negative	Clothes Rod	Clos. Int (All)		Stain	Deteriorated	Wood	Bedroom	11			
414	-0.2	Negative	Clos. Ceiling	Clos. Int (All)		White	Deteriorated	Plaster	Bedroom	11			
415	0.3	Negative	Clos. Floor	Clos. Int (All)		Stain	Deteriorated	Wood	Bedroom	11			
416	0.3	Negative	Door Casing	D		White	Deteriorated	Wood	Bedroom	11			
417	0.1	Negative	Win. Casing	B		White	Deteriorated	Wood	Bedroom	11			
418	0.1	Negative	Win. Sill-Stool	B		White	Deteriorated	Wood	Bedroom	11			
419	0.1	Negative	Win. Stop Int.	B		White	Deteriorated	Wood	Bedroom	11			
420	0.3	Negative	Win. Apron	B		White	Deteriorated	Wood	Bedroom	11			
421	0.1	Negative	Win. Sash Int.	B		White	Deteriorated	Wood	Bedroom	11			
422	1.3	Positive	Win. Sash Ext.	B		White	Deteriorated	Wood	Bedroom	11	Weather	Yes	No
423	1.3	Positive	Win. Stop Ext.	B		White	Deteriorated	Metal	Bedroom	11	Weather	Yes	No
424	1.3	Positive	Win. Part Bead	B		White	Deteriorated	Metal	Bedroom	11	Friction	Yes	No

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
425	1.4	Positive	Win. Well-Trough	B		White	Deteriorated	Wood	Bedroom	11	Weather	Yes	No
426	0.2	Negative	Win. Casing	C		White	Deteriorated	Wood	Bedroom	11			
427	0.2	Negative	Win. Sill-Stool	C		White	Deteriorated	Wood	Bedroom	11			
428	0.2	Negative	Win. Stop Int.	C		White	Deteriorated	Wood	Bedroom	11			
429	0.3	Negative	Win. Apron	C		White	Deteriorated	Wood	Bedroom	11			
430	0.3	Negative	Win. Sash Int.	C		White	Deteriorated	Wood	Bedroom	11			
431	1.3	Positive	Win. Sash Ext.	C		White	Deteriorated	Wood	Bedroom	11	Weather	Yes	No
432	1.3	Positive	Win. Stop Ext.	C		White	Deteriorated	Metal	Bedroom	11	Weather	Yes	No
433	1.3	Positive	Win. Part Bead	C		White	Deteriorated	Metal	Bedroom	11	Friction	Yes	No
434	1.4	Positive	Win. Well-Trough	C		White	Deteriorated	Wood	Bedroom	11	Weather	Yes	No
435	0.4	Negative	Wall	A		Brown	Deteriorated	Plaster	Bedroom	12			
436	0.2	Negative	Wall	B		Brown	Deteriorated	Plaster	Bedroom	12			
437	0.5	Negative	Wall	C		Brown	Deteriorated	Plaster	Bedroom	12			
438	0.5	Negative	Wall	D		Brown	Deteriorated	Plaster	Bedroom	12			
439	0.2	Negative	Ceiling	Ceiling		White	Deteriorated	Plaster	Bedroom	12			
440	0.4	Negative	Wall Register	All		White	Deteriorated	Metal	Bedroom	12			
441	0.5	Negative	Baseboard	A		White	Deteriorated	Wood	Bedroom	12			
442	0.5	Negative	Baseboard	B		White	Deteriorated	Wood	Bedroom	12			
443	0.5	Negative	Baseboard	C		White	Deteriorated	Wood	Bedroom	12			
444	0.4	Negative	Baseboard	D		White	Deteriorated	Wood	Bedroom	12			
445	0.4	Negative	Clos. Wall	D	1	White	Deteriorated	Plaster	Bedroom	12			
446	0.1	Negative	Clos. Shelf	D	1	White	Deteriorated	Wood	Bedroom	12			
447	0.3	Negative	Shelf Bracket	D	1	White	Deteriorated	Wood	Bedroom	12			
448	0.3	Negative	Clos. Door	D	1	Stain	Deteriorated	Wood	Bedroom	12			
449	0.3	Negative	Clos. Door Jamb	D	1	White	Deteriorated	Wood	Bedroom	12			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
450	0.2	Negative	Clos. Door Stop	D	1	White	Deteriorated	Wood	Bedroom	12			
451	0.1	Negative	Clos. Door Casing	D	1	White	Deteriorated	Wood	Bedroom	12			
452	0.2	Negative	Clos. Baseboard	D	1	White	Deteriorated	Wood	Bedroom	12			
453	-0.2	Negative	Clos. Ceiling	D	1	White	Deteriorated	Plaster	Bedroom	12			
454	-0.1	Negative	Clos. Wall	D	2	White	Deteriorated	Plaster	Bedroom	12			
455	0	Negative	Clos. Shelf	D	2	White	Deteriorated	Wood	Bedroom	12			
456	-0.1	Negative	Shelf Bracket	D	2	White	Deteriorated	Wood	Bedroom	12			
457	0.1	Negative	Clos. Door	D	2	Stain	Deteriorated	Wood	Bedroom	12			
458	0.1	Negative	Clos. Door Jamb	D	2	White	Deteriorated	Wood	Bedroom	12			
459	0.3	Negative	Clos. Door Stop	D	2	White	Deteriorated	Wood	Bedroom	12			
460	0.2	Negative	Clos. Door Casing	D	2	White	Deteriorated	Wood	Bedroom	12			
461	0.2	Negative	Clos. Baseboard	D	2	White	Deteriorated	Wood	Bedroom	12			
462	0.2	Negative	Clothes Rod	D	2	Stain	Deteriorated	Wood	Bedroom	12			
463	-0.1	Negative	Clos. Ceiling	D	2	White	Deteriorated	Plaster	Bedroom	12			
464	0	Negative	Door Casing	D		White	Deteriorated	Wood	Bedroom	12			
465	0.3	Negative	Win. Casing	A		White	Deteriorated	Wood	Bedroom	12			
466	0	Negative	Win. Sill-Stool	A		White	Deteriorated	Wood	Bedroom	12			
467	0	Negative	Win. Stop Int.	A		White	Deteriorated	Wood	Bedroom	12			
468	0.3	Negative	Win. Apron	A		White	Deteriorated	Wood	Bedroom	12			
469	0.3	Negative	Win. Sash Int.	A		White	Deteriorated	Wood	Bedroom	12			
470	**1.4**	**Positive**	**Win. Sash Ext.**	**A**		**White**	**Deteriorated**	**Wood**	**Bedroom**	**12**	**Weather**	**Yes**	**No**
471	**1.4**	**Positive**	**Win. Stop Ext.**	**A**		**White**	**Deteriorated**	**Metal**	**Bedroom**	**12**	**Weather**	**Yes**	**No**
472	**1.4**	**Positive**	**Win. Part Bead**	**A**		**White**	**Deteriorated**	**Metal**	**Bedroom**	**12**	**Friction**	**Yes**	**No**
473	**1.3**	**Positive**	**Win. Well-Trough**	**A**		**White**	**Deteriorated**	**Wood**	**Bedroom**	**12**	**Weather**	**Yes**	**No**
474	0.3	Negative	Win. Casing	B		White	Deteriorated	Wood	Bedroom	12			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
475	0.3	Negative	Win. Sill-Stool	B		White	Deteriorated	Wood	Bedroom	12			
476	0.2	Negative	Win. Stop Int.	B		White	Deteriorated	Wood	Bedroom	12			
477	0.2	Negative	Win. Apron	B		White	Deteriorated	Wood	Bedroom	12			
478	0.2	Negative	Win. Sash Int.	B		White	Deteriorated	Wood	Bedroom	12			
479	1.3	Positive	Win. Sash Ext.	B		White	Deteriorated	Wood	Bedroom	12	Weather	Yes	No
480	1.3	Positive	Win. Stop Ext.	B		White	Deteriorated	Wood	Bedroom	12	Weather	Yes	No
481	1.3	Positive	Win. Part Bead	B		White	Deteriorated	Metal	Bedroom	12	Friction	Yes	No
482	1.3	Positive	Win. Well-Trough	B		White	Deteriorated	Wood	Bedroom	12	Weather	Yes	No
483	0.5	Negative	Wall	A		Grey	Deteriorated	Plaster	Bedroom	13			
484	0.5	Negative	Wall	B		Grey	Deteriorated	Plaster	Bedroom	13			
485	0.5	Negative	Wall	C		White	Deteriorated	Plaster	Bedroom	13			
486	0.4	Negative	Wall	D		White	Deteriorated	Plaster	Bedroom	13			
487	0.4	Negative	Ceiling	Ceiling		White	Deteriorated	Plaster	Bedroom	13			
488	0.2	Negative	Floor	Floor		Stain	Deteriorated	Wood	Bedroom	13			
489	0.2	Negative	Wall Register	A		White	Deteriorated	Metal	Bedroom	13			
490	0.3	Negative	Wall Register	B		White	Deteriorated	Metal	Bedroom	13			
491	0.2	Negative	Baseboard	A		White	Deteriorated	Wood	Bedroom	13			
492	0.2	Negative	Baseboard	B		White	Deteriorated	Wood	Bedroom	13			
493	0.1	Negative	Baseboard	C		White	Deteriorated	Wood	Bedroom	13			
494	0.1	Negative	Baseboard	D		White	Deteriorated	Wood	Bedroom	13			
495	0.4	Negative	Clos. Wall	Clos. Int (All)		White	Deteriorated	Plaster	Bedroom	13			
496	0.2	Negative	Clos. Shelf	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	13			
497	0.1	Negative	Shelf Bracket	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	13			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
498	0.2	Negative	Clos. Door	Clos. Int (All)		Stain	Deteriorated	Wood	Bedroom	13			
499	0	Negative	Clos. Door Jamb	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	13			
500	0.1	Negative	Clos. Door Stop	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	13			
501	0.1	Negative	Clos. Door Casing	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	13			
502	0.1	Negative	Clos. Baseboard	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	13			
503	0.2	Negative	Clothes Rod	Clos. Int (All)		Stain	Deteriorated	Wood	Bedroom	13			
504	0.1	Negative	Clos. Ceiling	Clos. Int (All)		White	Deteriorated	Plaster	Bedroom	13			
505	0.1	Negative	Clos. Floor	Clos. Int (All)		Stain	Deteriorated	Wood	Bedroom	13			
506	0.1	Negative	Attic Cover	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	13			
507	0.2	Negative	Attic Dr. Casing	Clos. Int (All)		White	Deteriorated	Wood	Bedroom	13			
508	0.2	Negative	Cabinet	C		White	Deteriorated	Wood	Bedroom	13			
509	0.2	Negative	Cabinet Casing	C		White	Deteriorated	Wood	Bedroom	13			
510	0	Negative	Cabinet Door	C		White	Deteriorated	Wood	Bedroom	13			
511	0	Negative	Cabinet Drawer	C		White	Deteriorated	Wood	Bedroom	13			
512	0.2	Negative	Cabinet Shelf	C		White	Deteriorated	Wood	Bedroom	13			
513	**2.8**	**Positive**	**Win. Casing**	**A**		**White**	**Deteriorated**	**Wood**	**Bedroom**	**13**	**Impact**	**Yes**	**No**
514	0.2	Negative	Win. Sill-Stool	A		White	Deteriorated	Wood	Bedroom	13			
515	0.1	Negative	Win. Stop Int.	A		White	Deteriorated	Wood	Bedroom	13			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
516	0.1	Negative	Win. Apron	A		White	Deteriorated	Wood	Bedroom	13			
517	0.1	Negative	Win. Sash Int.	A		White	Deteriorated	Wood	Bedroom	13			
518	1.5	Positive	Win. Sash Ext.	A		White	Deteriorated	Wood	Bedroom	13	Weather	Yes	No
519	1.3	Positive	Win. Stop Ext.	A		White	Deteriorated	Wood	Bedroom	13	Weather	Yes	No
520	1.5	Positive	Win. Part Bead	A		White	Deteriorated	Metal	Bedroom	13	Friction	Yes	No
521	1.4	Positive	Win. Well-Trough	A		White	Deteriorated	Wood	Bedroom	13	Weather	Yes	No
522	0.1	Negative	Win. Shutters	A		White	Deteriorated	Wood	Bedroom	13			
523	0.3	Negative	Win. Casing	D		White	Deteriorated	Wood	Bedroom	13			
524	0.3	Negative	Win. Casing	D		White	Deteriorated	Wood	Bedroom	13			
525	0.2	Negative	Win. Casing	D		White	Deteriorated	Wood	Bedroom	13			
526	0.1	Negative	Win. Sill-Stool	D		White	Deteriorated	Wood	Bedroom	13			
527	0.2	Negative	Win. Stop Int.	D		White	Deteriorated	Wood	Bedroom	13			
528	0.1	Negative	Win. Apron	D		White	Deteriorated	Wood	Bedroom	13			
529	0.3	Negative	Win. Sash Int.	D		White	Deteriorated	Wood	Bedroom	13			
530	1.3	Positive	Win. Sash Ext.	D		White	Deteriorated	Wood	Bedroom	13	Weather	Yes	No
531	1.3	Positive	Win. Stop Ext.	D		White	Deteriorated	Wood	Bedroom	13	Weather	Yes	No
532	1.4	Positive	Win. Part Bead	D		White	Deteriorated	Metal	Bedroom	13	Friction	Yes	No
533	1.4	Positive	Win. Well-Trough	D		White	Deteriorated	Wood	Bedroom	13	Weather	Yes	No
534	0.1	Negative	Win. Shutters	D		White	Deteriorated	Wood	Bedroom	13			
535	0.1	Negative	Door Casing	C		White	Deteriorated	Wood	Bedroom	13			
541	0.6	Negative	Wall	A		Beige	Deteriorated	Plaster	Stairwell	14			
542	0.5	Negative	Wall	B		Beige	Deteriorated	Plaster	Stairwell	14			
543	-0.1	Negative	Wall	C		Beige	Deteriorated	Plaster	Stairwell	14			
544	0	Negative	Wall	D		Beige	Deteriorated	Plaster	Stairwell	14			
545	0.4	Negative	Wall	B		Beige	Deteriorated	Paneling	Stairwell	14			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
546	0.2	Negative	Wall	D		Beige	Deteriorated	Paneling	Stairwell	14			
547	0.5	Negative	Ceiling	Ceiling		Beige	Deteriorated	Plaster	Stairwell	14			
548	0.2	Negative	Wall Casing	B		Beige	Deteriorated	Wood	Stairwell	14			
549	-0.1	Negative	Wall Casing	D		Beige	Deteriorated	Wood	Stairwell	14			
550	0.1	Negative	Wall Casing	A		Black	Deteriorated	Wood	Stairwell	14			
551	0.1	Negative	Ledge	B		Beige	Deteriorated	Paneling	Stairwell	14			
552	0.2	Negative	Ledge	D		Beige	Deteriorated	Paneling	Stairwell	14			
553	0.3	Negative	Stair Riser	All		Brown	Deteriorated	Wood	Stairwell	14			
554	0.4	Negative	Stair Stringer	All		Brown	Deteriorated	Wood	Stairwell	14			
555	0.2	Negative	Stair Baseboard	All		Beige	Deteriorated	Wood	Stairwell	14			
556	-0.1	Negative	Railing	All		Stain	Deteriorated	Wood	Stairwell	14			
557	0.3	Negative	Door Casing	B		Black	Deteriorated	Wood	Stairwell	14			
558	0.4	Negative	Door Casing	C		Black	Deteriorated	Wood	Stairwell	14			
559	0.3	Negative	Door Casing	D		Black	Deteriorated	Wood	Stairwell	14			
560	0.3	Negative	Door	D		Beige	Deteriorated	Wood	Stairwell	14			
561	**1.8**	**Positive**	**Door**	**D**		**Grey**	**Deteriorated**	**Wood**	**Stairwell**	**14**	Friction	Yes	No
562	**2**	**Positive**	**Door Stop**	**D**		**Grey**	**Deteriorated**	**Wood**	**Stairwell**	**14**	Impact	Yes	No
563	0.6	Negative	Door Jamb	D		Grey	Deteriorated	Metal	Stairwell	14			
564	0.2	Negative	Wall	A		Beige	Deteriorated	Paneling	Basement	15			
565	0.2	Negative	Wall	B		Beige	Deteriorated	Paneling	Basement	15			
566	0.2	Negative	Wall	C		Beige	Deteriorated	Paneling	Basement	15			
567	0.2	Negative	Wall	D		Beige	Deteriorated	Paneling	Basement	15			
568	0.2	Negative	Ceiling	Ceiling		Beige	Deteriorated	Paneling	Basement	15			
569	0.2	Negative	Floor	Floor		Grey	Deteriorated	Concrete	Basement	15			
570	0.1	Negative	Wall Casing	All		Beige	Deteriorated	Wood	Basement	15			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
571	0.1	Negative	Column	All		Beige	Deteriorated	Paneling	Basement	15			
572	0.3	Negative	Clos. Wall	Clos. Int (All)		Beige	Deteriorated	Cinderblock	Basement	15			
573	0.3	Negative	Clos. Door	Clos. Int (All)		Beige	Deteriorated	Wood	Basement	15			
574	0.1	Negative	Clos. Door Casing	Clos. Int (All)		Beige	Deteriorated	Wood	Basement	15			
575	0.3	Negative	Win. Sill-Stool	Clos. Int (All)		Beige	Deteriorated	Cinderblock	Basement	15			
576	0.3	Negative	Countertop	C		Red	Deteriorated	Wood	Basement	15			
577	0.1	Negative	Door	C		Stain	Deteriorated	Wood	Basement	15			
578	0	Negative	Door Jamb	C		Beige	Deteriorated	Wood	Basement	15			
579	0.2	Negative	Wall	B		Beige	Deteriorated	Cinderblock	Utility Room	16			
580	0.2	Negative	Wall	C		Beige	Deteriorated	Cinderblock	Utility Room	16			
581	0.2	Negative	Wall	D		Beige	Deteriorated	Wood	Utility Room	16			
582	0.4	Negative	Floor	Floor		Grey	Deteriorated	Concrete	Utility Room	16			
583	0.1	Negative	Clos. Wall	Clos. Int (All)		Green	Deteriorated	Cinderblock	Utility Room	16			
584	0	Negative	Clos. Door	Clos. Int (All)		Beige	Deteriorated	Wood	Utility Room	16			
585	0.2	Negative	Win. Sill-Stool	B	1	Beige	Deteriorated	Cinderblock	Utility Room	16			
586	0.2	Negative	Win. Sill-Stool	B	2	Beige	Deteriorated	Cinderblock	Utility Room	16			
587	0.3	Negative	Win. Sill-Stool	C		Beige	Deteriorated	Cinderblock	Utility Room	16			
588	0.1	Negative	Access	D		Beige	Deteriorated	Wood	Basement	15			
589	0.1	Negative	Access	D		Beige	Deteriorated	Paneling	Basement	15			
597	0.3	Negative	Fascia	All		White	Deteriorated	Metal	Exterior House	17			

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
598	1.2	Positive	Soffit	All		White	Deteriorated	Metal	Exterior House	17	Weather	No	No
599	1.2	Positive	Frieze Board	All		White	Deteriorated	Metal	Exterior House	17	Weather	No	No
600	0.2	Negative	Siding	A		White	Deteriorated	Metal	Exterior House	17			
601	0.1	Negative	Siding	B		White	Deteriorated	Metal	Exterior House	17			
602	0.1	Negative	Siding	D		White	Deteriorated	Metal	Exterior House	17			
603	1.1	Positive	Door Casing	All		White	Deteriorated	Metal	Exterior House	17	Weather	No	No
604	0.1	Negative	Door Casing	C		White	Deteriorated	Wood	Exterior House	17			
605	2.4	Positive	Win. Casing	A		White	Deteriorated	Metal	Exterior House	17	Weather	No	No
606	3.4	Positive	Win. Casing	All		White	Deteriorated	Wood	Exterior House	17	Weather	No	No
607	0.3	Negative	Porch Column	C		White	Deteriorated	Metal	Exterior House	17			
608	1.1	Positive	Porch Beam	C		White	Deteriorated	Metal	Exterior House	17	Weather	No	No
609	0.2	Negative	Downspout	All		Black	Deteriorated	Metal	Exterior House	17			
610	0.2	Negative	Gutter	All		Black	Deteriorated	Metal	Exterior House	17			
611	1.2	Positive	Attic Vent	All		White	Deteriorated	Metal	Exterior House	17	Weather	No	No

READING #	MG/CM²	RESULT	COMPONENTS	SIDE	SIDE #	COLOR	CONDITION	SUBSTRATE	ROOM TYPE	ROOM #	COND CAUSE	FRIC-IMP	TEETH
612	0.4	Negative	Address Sign	A		Black	Deteriorated	Metal	Exterior House	17			
613	2.8	Positive	Win. Shutters	All		Black	Deteriorated	Wood	Exterior House	17	Weather	Yes	No
614	2.6	Positive	Door Trim	A		Black	Deteriorated	Wood	Exterior House	17	Weather	Yes	No
615	0.2	Negative	Win. Bars	All		Black	Deteriorated	Metal	Exterior House	17			
616	0.9	Negative	Porch Rail	A		Black	Deteriorated	Metal	Exterior House	17			
617	0.2	Negative	Garage Door	A		White	Deteriorated	Metal	Exterior House	17			
618	1.8	Positive	Garage Door Casing	A		White	Deteriorated	Metal	Exterior House	17	Weather	No	No
619	0.1	Negative	Door	B		White	Deteriorated	Metal	Int. Garage	18			
620	0.1	Negative	Door Casing	B		White	Deteriorated	Wood	Int. Garage	18			
621	-0.1	Negative	Door Stop	B		White	Deteriorated	Wood	Int. Garage	18			
622	0.1	Negative	Door Jamb	B		White	Deteriorated	Wood	Int. Garage	18			
623	1	Positive	Calibrate										
624	1	Positive	Calibrate										
625	1.1	Positive	Calibrate										

** HUD reporting limits for positive XRF results are ≥1.0 mg/cm² for painted or glazed surfaces.*

HISTORIC DISTRICT COMMISSION
PROJECT REVIEW REQUEST

CITY OF DETROIT
PLANNING & DEVELOPMENT DEPARTMENT
2 WOODWARD AVENUE, ROOM 808, DETROIT, MI 48226

DATE: 11/2/2020

PROPERTY INFORMATION

ADDRESS: 14935 Westwood **AKA:**

HISTORIC DISTRICT: Rosedale Garden

SCOPE OF WORK: (Check ALL that apply)
- [x] Windows/ Doors
- [ ] Roof/Gutters/ Chimney
- [ ] Porch/ Deck
- [ ] Landscape/Fence/ Tree/Park
- [ ] General Rehab
- [ ] New Construction
- [ ] Demolition
- [ ] Addition
- [x] Other: Repair trim & soffit

APPLICANT IDENTIFICATION

- [ ] Property Owner/ Homeowner
- [x] Contractor
- [ ] Tenant or Business Occupant
- [ ] Architect/Engineer/ Consultant

NAME: Edward Wenz **COMPANY NAME:** CTI Contractor Services, LLC

ADDRESS: 8756 Trenton Dr **CITY:** White Lake **STATE:** MI **ZIP:** 48386

PHONE: 248-698-6900 **MOBILE:** 586-291-1616 **EMAIL:** wenz_ed@yahoo.com

PROJECT REVIEW REQUEST CHECKLIST

Please attach the following documentation to your request:

PLEASE KEEP FILE SIZE OF ENTIRE SUBMISSION UNDER 30MB

- [x] **Completed Building Permit Application** (highlighted portions only)
- [x] **ePLANS Permit Number** (only applicable if you've already applied for permits through ePLANS)
- [x] **Photographs** of ALL sides of existing building or site
- [x] **Detailed photographs** of location of proposed work (photographs to show existing condition(s), design, color, & material)
- [x] **Description of existing conditions** (including materials and design)
- [x] **Description of project** (if replacing any existing material(s), include an explanation as to why replacement--rather than repair--of existing and/or construction of new is required)
- [x] **Detailed scope of work** (formatted as bulleted list)
- [x] **Brochure/cut sheets** for proposed replacement material(s) and/or product(s), as applicable

NOTE:
Based on the scope of work, additional documentation may be required.

See www.detroitmi.gov/hdc for scope-specific requirements.

Upon receipt of this documentation, staff will review and inform you of the next steps toward obtaining your building permit from the Buildings, Safety Engineering and Environmental Department (BSEED) to perform the work.

SUBMIT COMPLETED REQUESTS TO HDC@DETROITMI.GOV

P2 - BUILDING PERMIT APPLICATION

Date: 11/2/2020

PROPERTY INFORMATION

Address: 14935 Westwood Floor: 1 Suite#: ___ Stories: 2

AKA: ___ Lot(s): ___ Subdivision: ___

Parcel ID#(s): ___ Total Acres: ___ Lot Width: ___ Lot Depth: ___

Current Legal Use of Property: Residential Proposed Use: Residential

Are there any existing buildings or structures on this parcel? ■ Yes ☐ No

PROJECT INFORMATION

Permit Type: ☐ New ☐ Alteration ☐ Addition ☐ Demolition ☐ Correct Violations

☐ Foundation Only ☐ Change of Use ☐ Temporary Use ■ Other: Lead Abatement Work

☐ Revision to Original Permit #: BLD2020-04686 (Original permit has been issued and is active)

Description of Work (Describe in detail proposed work and use of property, attach work list)

Lead Abatement work to repair of existing aluminum trim and soffit. Replace windows with vinyl units to make lead safe for children per State Lead Program

Limited scope of work from State of MI Lead Program to eliminate Lead Hazard to protect children of home.

☐ MBC use change ■ No MBC use change

Included Improvements (Check all applicable; these trade areas require separate permit applications)

☐ HVAC/Mechanical ☐ Electrical ☐ Plumbing ☐ Fire Sprinkler System ☐ Fire Alarm

Structure Type

☐ New Building ■ Existing Structure ☐ Tenant Space ☐ Garage/Accessory Building

☐ Other: ___ Size of Structure to be Demolished (LxWxH) ___ cubic ft.

Construction involves changes to the floor plan? ☐ Yes ■ No

(e.g. interior demolition or construction to new walls)

Use Group: Residential Type of Construction (per current MI Bldg Code Table 601) MRCRC2015

Estimated Cost of Construction $ 15,684.00 (By Contractor) $ ___ (By Department)

Structure Use

■ Residential-Number of Units: 1 ☐ Office-Gross Floor Area ___ ☐ Industrial-Gross Floor Area ___

☐ Commercial-Gross Floor Area: ___ ☐ Institutional-Gross Floor Area ___ ☐ Other-Gross Floor Area ___

Proposed No. of Employees: ___ List materials to be stored in the building: ___

PLOT PLAN SHALL BE submitted on separate sheets and shall show all easements and measurements (must be correct and in detail). SHOW ALL streets abutting lot, indicate front of lot, show all buildings, existing and proposed distances to lot lines. (Building Permit Application Continues on Next Page)

For Building Department Use Only

Intake By: ___ Date: ___ Fees Due: ___ DngBld? ☐ No

Permit Description:

Permit #:

Current Legal Land Use: ___ Proposed Use: ___

Permit#: ___ Date Permit Issued: ___ Permit Cost: $ ___

Zoning District: ___ Zoning Grant(s): ___

Lots Combined? ☐ Yes ☐ No (attach zoning clearance)

Revised Cost (revised permit applications only) Old $ ___ New $ ___

Structural: ___ Date: ___ Notes: ___

Zoning: ___ Date: ___ Notes: ___

Other: ___ Date: ___ Notes: ___

IDENTIFICATION (All Fields Required)

Property Owner/Homeowner ☐ Property Owner/Homeowner is Permit Applicant

Name: Demaryst Garwood Company Name: _____

Address: 14935 Westwood City: Detroit State: MI Zip: 48223

Phone: 313-896-6008 Mobile: _____

Driver's License #: _____ Email: _____

Contractor ■ Contractor is Permit Applicant

Representative Name: Edward Wenz Company Name: CTI Contractor Servcies, LLC

Address: 8756 Trenton Dr City: White Lake State: MI Zip: 48386

Phone: 248-698-6900 Mobile: 586-291-1616 Email: wenz_ed@yahoo.com

City of Detroit License #: LIC2020-00899

TENANT OR BUSINESS OCCUPANT ☐ Tenant is Permit Applicant

Name: _____ Phone: _____ Email: _____

ARCHITECT/ENGINEER/CONSULTANT ☐ Architect/Engineer/Consultant is Permit Applicant

Name: _____ State Registration#: _____ Expiration Date: _____

Address: _____ City: _____ State: ____ Zip: _____

Phone: _____ Mobile: _____ Email: _____

HOMEOWNER AFFIDAVIT (Only required for residential permits obtained by homeowner.)

I hereby certify that I am the legal owner and occupant of the subject property and the work described on this permit application shall be completed by me. I am familiar with the applicable codes and requirements of the City of Detroit and take full responsibility for all code compliance, fees and inspections related to the installation/work herein described. I shall neither hire nor sub-contract to any other person, firm or corporation any portion of the work covered by this building permit.

Print Name: _____ (Homeowner) Signature: _____ Date: 11/2/2020

Subscribed and sworn to before me this _____ day of _____ 20 ____ A.D. _____ County, Michigan

Signature: _____ (Notary Public) My Commission Expires: _____

PERMIT APPLICANT SIGNATURE

I hereby certify that the information on this application is true and correct. I have reviewed all deed restrictions that may apply to this construction and am aware of my responsibility thereunder. I certify that the proposed work is authorized by the owner of the record and I have been authorized to make this application as the property owner(s) authorized agent. Further I agree to conform to all applicable laws and ordinances of jurisdiction. **I am aware that a permit will expire when no inspections are requested and conducted within 180 days of the date of issuance or the date of the previous inspection and that expired permits cannot be**

Print Name: Edward G. Wenz, Jr (Permit Applicant) Signature: _____ Date: 11/2/2020

Driver's License #: w520189279025 Expiration: 01/2023

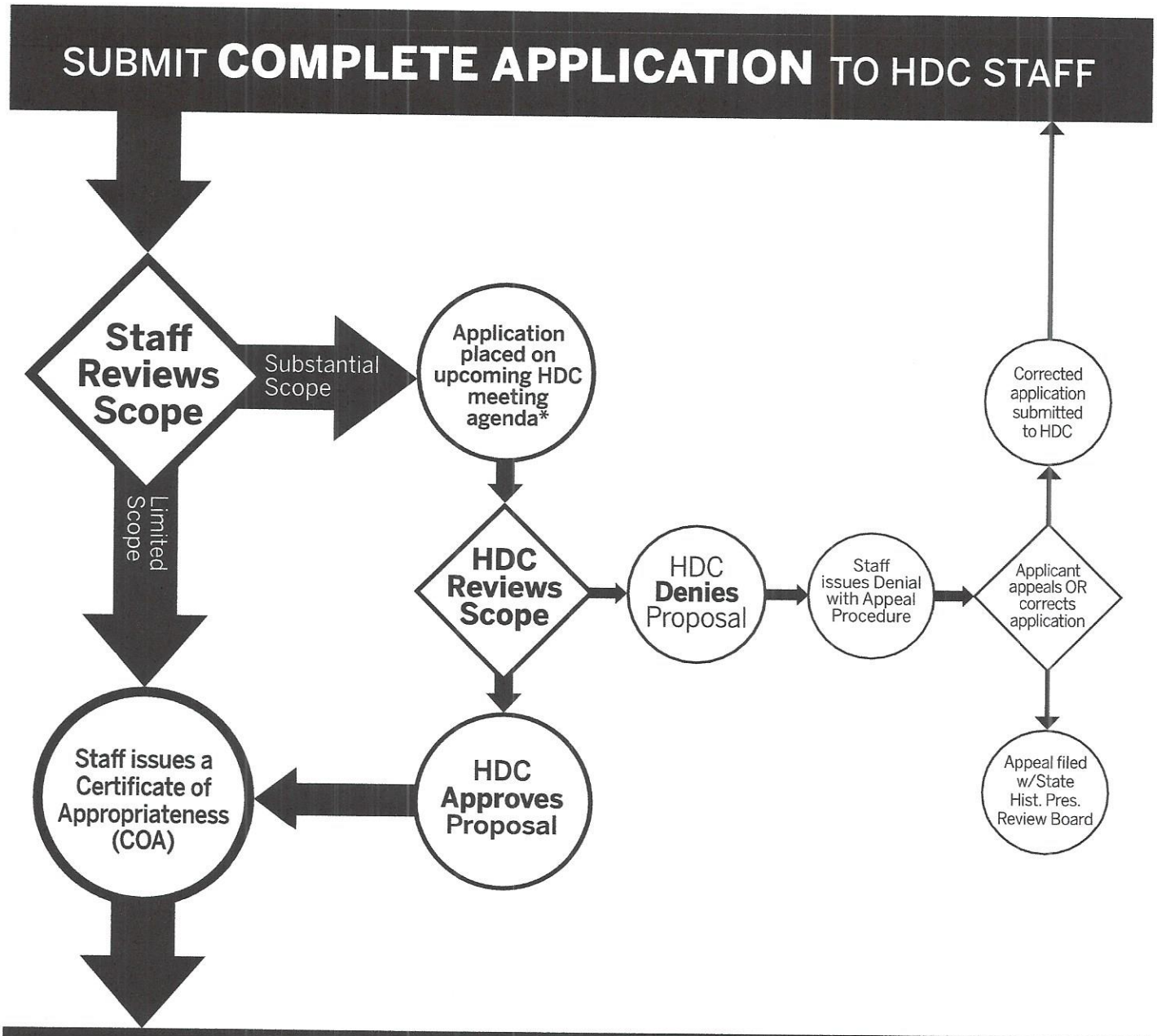
Subscribed and sworn to before me this _____ day of _____ 20 ____ A.D. _____ County, Michigan

Signature: _____ (Notary Public) My Commission Expires: _____

Section 23a of the state construction code act of 1972, 1972PA230, MCL 125.1523A, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Visitors of Section 23a are subject to civil fines.

This application can also be completed online. Visit detroitmi.gov/bseed/elaps for more information.

HISTORIC DISTRICT COMMISSION
REVIEW & PERMIT PROCESS



* THE **COMMISSION MEETS REGULARY AT LEAST ONCE PER MONTH,** TYPICALLY ON THE SECOND WEDNESDAY OF THE MONTH.
(SEE WEBSITE FOR MEETING SCHEDULE/AGENDAS)

FIND OUT MORE AT www.detroitmi.gov/hdc

PROJECT REVIEW REQUEST CHECKLIST

Please attach the following documentation to your request:

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- [x] **Detailed photographs** of location of proposed work (photographs to show existing condition(s), design, color, & material) —
- [x] **Description of existing conditions** (including materials and design) —
- [x] **Description of project** (if replacing any existing material(s), include an explanation as to why replacement--rather than repair--of existing and/or construction of new is required) —
- [x] **Detailed scope of work** (formatted as bulleted list) — Need from State
- [x] **Brochure/cut sheets** for proposed replacement material(s) and/or product(s), as applicable — CTI can get after windows defined

Upon receipt of this documentation, staff will review and inform you of the next steps toward obtaining your building permit from the Buildings, Safety Engineering and Environmental Department (BSEED) to perform the work.

SUBMIT COMPLETED REQUESTS TO HDC@DETROITMI.GOV

Welcome to The City of Detroit eLAPS Home Page

(Electronic Licensing and Permitting System)

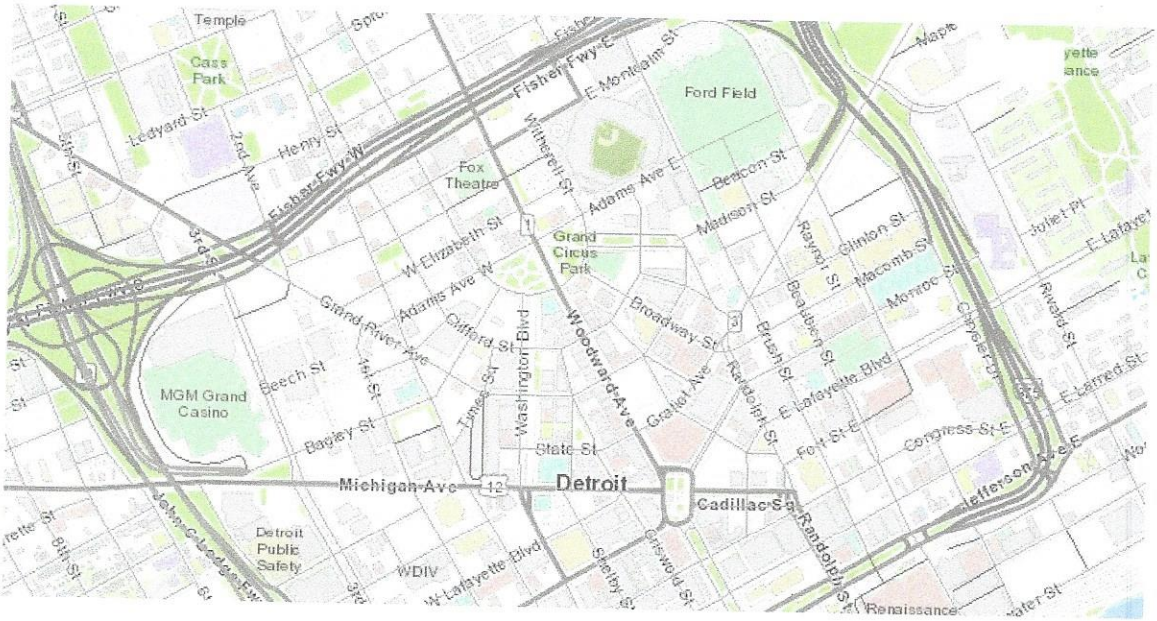
Record BLD2020-04686:
Building Permit Application
Record Status: In Review

Add to cart
Add to collection

Record Info Payments Custom Component

Work Location

14935 WESTWOOD
DETROIT MI 48223



Record Details

Applicant:
Organization
CTI Contractor Services
United States
Primary Phone:248 698-6900
Mobile Phone:586 291-1616
wenz_ed@yahoo.com

Project Description:
Lead Abatement Work
Windows, Door, Soffit
Install new windows, 3 entry doors, Soffit & trim

More Details

Copy Record

Licensed Professional:
CTI CONTRACTOR SERVICES LLC
2102213550
8756 TRENTON DR
WHITE LAKE, MI, 48386
MI Con Reg Resi Bld MI- LIC2020-00899

Owner:
GARWOOD, DEMARYST
14935 WESTWOOD
DETROIT MI 48223

City of Detroit
Buildings, Safety Engineering and Environmental Department
Coleman A. Young Municipal Center
2 Woodward Avenue, 4th Floor, Detroit, Michigan 48226

Receipt No.: **115277**
Receipt Date: **10/16/2020**

Applicant:

CTI Contractor Services
,

RECEIPT

RECORD & PAYER INFORMATION

Record ID : BLD2020-04686
Record Type : Building Permit Application
Payer : Edward G Wenz
Property Address : 14935 WESTWOOD, DETROIT, MI 48223
Description of Work : Install new windows, 3 entry doors, Soffit & trim

PAYMENT DETAIL

Date	Payment Method	Reference	Comments	Amount
10/16/2020	Credit Card			$430.00

FEE DETAIL

Fee Description	Invoice #	Quantity	Fee Amount	Current Paid
Building Permit Fee	5771508	430	$430.00	$430.00
			$430.00	$430.00