

CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

Project Description:

Install gutters and downspouts; replace shingles; install HVAC

702 N Blount St

Address

Blount Street

Historic District

Historic Property

COA-0166-2018

Certificate Number

10/19/2018

Date of Issue

4/17/2019

Expiration Date

This card must be kept posted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.

Signature, _____

Collette R. Kinne

Raleigh Historic Development Commission

Pending the resolution of appeals, commencement of work is at your own risk.

Raleigh Historic Development Commission – Certificate of Appropriateness (COA) Application



**DEVELOPMENT
SERVICES
DEPARTMENT**

Development Services
Customer Service Center
One Exchange Plaza
1 Exchange Plaza, Suite 400
Raleigh, North Carolina 27601
Phone 919-996-2495
eFax 919-996-1831



| | |
|--|--|
| <input checked="" type="checkbox"/> Minor Work (staff review) – 1 copy <input type="checkbox"/> Major Work (COA Committee review) – 10 copies <ul style="list-style-type: none"> <input type="checkbox"/> Additions Greater than 25% of Building Square Footage <input type="checkbox"/> New Buildings <input type="checkbox"/> Demo of Contributing Historic Resource <input type="checkbox"/> All Other <input type="checkbox"/> Post Approval Re-review of Conditions of Approval | <p style="text-align: center;">For Office Use Only</p> Transaction # <u>570836</u> File # <u>COA-0166-2018</u> Fee <u>\$30⁰⁰</u> Amount Paid _____ Received Date <u>09/26/2018</u> Received By <u>Pamela Best</u> |
|--|--|

| | | |
|--|---------------------------|----------------------------|
| Property Street Address 702 NORTH BLOUNT STREET | | |
| Historic District BLOUNT STREET | | |
| Historic Property/Landmark name (if applicable) | | |
| Owner's Name ANGEL OAK INVESTMENTS LLC | | |
| Lot size .24 A | (width in feet) 70 | (depth in feet) 147 |

For applications that require review by the COA Committee (Major Work), provide addressed, stamped envelopes to owners of all properties within 100 feet (i.e. both sides, in front (across the street), and behind the property) not including the width of public streets or alleys (Label Creator).

| Property Address | Property Address |
|------------------|------------------|
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I understand that all applications that require review by the commission's Certificate of Appropriateness Committee must be submitted by 4:00 p.m. on the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Type or print the following:

Applicant ANGEL OAK INVESTMENTS LLC

Mailing Address 702 NORTH BLOUNT STREET

City RALEIGH

State NC

Zip Code 27604

Date 9/26/18

Daytime Phone 919-607-3507

Email Address caitlin@angeloakcreative.com

Applicant Signature *Caitlin Cinar*

Will you be applying for rehabilitation tax credits for this project? Yes No

Did you consult with staff prior to filing the application? Yes No

Office Use Only

Type of Work 50,60,40

Design Guidelines - Please cite the applicable sections of the design guidelines (www.rhdc.org).

| Section/Page | Topic | Brief Description of Work (attach additional sheets as needed) |
|--------------|----------------------------------|--|
| 2.5/47 | Gutters | See attached "Appendix -- Description of Work" |
| 2.5/47 | Roof Covering | |
| 2.1/59 | Mechanical / HVAC Units | |
| 1.3/23 | Landscaping / Grading | |
| | | REMOVE PER APPLICANT |
| | | |
| | | |
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Minor Work Approval (office use only)

Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until 04/17/2019. Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor Works are subject to an appeals period of 30 days from the date of approval.

Signature (City of Raleigh) Collette R K Date 10/19/2018

| TO BE COMPLETED BY APPLICANT | | | TO BE COMPLETED BY CITY STAFF | | |
|---|-------------------------------------|--------------------------|-------------------------------|----|-----|
| | YES | N/A | YES | NO | N/A |
| Attach 8-1/2" x 11" or 11" x 17" sheets with written descriptions and drawings, photographs, and other graphic information necessary to completely describe the project. Use the checklist below to be sure your application is complete. | | | | | |
| Minor Work (staff review) – 1 copy | | | | | |
| Major Work (COA Committee review) – 10 copies | | | | | |
| 1. Written description. Describe clearly and in detail the nature of your project. Include exact dimensions for materials to be used (e.g. width of siding, window trim, etc.) | <input checked="" type="checkbox"/> | | | | |
| 2. Description of materials (Provide samples, if appropriate) | <input checked="" type="checkbox"/> | | | | |
| 3. Photographs of existing conditions are required. Minimum image size 4" x 6" as printed. Maximum 2 images per page. | <input checked="" type="checkbox"/> | | | | |
| 4. Paint Schedule (if applicable) | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| 5. Plot plan (if applicable). A plot plan showing relationship of buildings, additions, sidewalks, drives, trees, property lines, etc., must be provided if your project includes any addition, demolition, fences/walls, or other landscape work. Show accurate measurements. You may also use a copy of the survey you received when you bought your property. Revise the copy as needed to show existing conditions and your proposed work. | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| 6. Drawings showing existing and proposed work <ul style="list-style-type: none"> <input type="checkbox"/> Plan drawings <input type="checkbox"/> Elevation drawings showing the façade(s) <input type="checkbox"/> Dimensions shown on drawings and/or graphic scale (required) <input type="checkbox"/> 11" x 17" or 8-1/2" x 11" reductions of full-size drawings. If reduced size is so small as to be illegible, make 11" x 17" or 8-1/2" x 11" snap shots of individual drawings from the big sheet. | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| 7. Stamped envelopes addressed to all property owners within 100 feet of property not counting the width of public streets and alleys (required for Major Work). Use the <u>Label Creator</u> to determine the addresses. | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| 8. Fee (<u>See Development Fee Schedule</u>) | <input type="checkbox"/> | | | | |

**702 NORTH BLOUNT STREET
APPENDIX TO APPLICATION FOR COA
DESCRIPTION OF WORK**

PRELIMINARY STATEMENT:

AOI purchased this property in April 2018. This Description of Work is based upon inspections and evaluations of the existing conditions at the property, as historical information regarding these subjects is limited. See Enclosures Log and Enclosures for orientation and photographs.

GUTTERS & DOWNSPOUTS:

Existing Conditions:

K-style gutters and downspouts are present on approximately 20 percent of the sides of the building (at the back). None of the existing gutters have gutter guard protection, which significantly compromises their effectiveness and results in persistent clogs to gutters and drains. No gutters or downspouts are present on the rest of the building, including the highest roof levels along the remaining 80 per cent of the north and south sides, nor on the front and back porches. These existing conditions were present when AOI purchased the property in April 2018.

Architectural plans prepared by Robert Collier, AIA, of AlphaCollier Architects, were approved by the RHDC in 2006, in connection with renovation work by Peace College (the owner of the building at that time). The approved plans call for gutters and downspouts to be installed all around the building. (See sheets A2 and A3 of the plans in RHDC's files for this property relating to the 2006 renovations. Copies of pertinent images from the plans showing locations of gutters and downspouts are enclosed (See Enclosures/Plans 2-6). Other than location and orientation, the plans provide no further detail or information regarding gutters.

AOI has no information as to why gutters (or gutter guards) were not installed on the portions of the building where currently missing.

The fascia at the eaves on the highest roof slopes (where gutters are missing) consists of crown moldings angled back toward the exterior of the building. (See Enclosures/Photographs 1-6) This creates challenging conditions for attaching gutters.

The absence of gutters has resulted in significant storm waters migrating into the crawl space of the building, which in turn has caused excessive and damaging water and moisture in the crawl space.

Even the existing gutters at the back portions of the building are ineffective because of the absence of gutter guards. Leaves, pollen, and debris from the trees surrounding the building (including "pin oaks" with long and narrow leaves) keep these gutters clogged. Moreover, the underground drainage pipes connected to the downspouts are also clogged and ineffective, apparently from leaves and debris building up over time from unprotected gutters.

Remediation:

AOI plans to install K-style gutters with Rain Drop Gutter Guard protection and downspouts around the building at the approximate locations shown on the aforementioned plans prepared by Mr. Collier and approved by the RHDC in connection with the renovations by Peace College in 2006.

The gutters will be attached by hidden hangers with “wedges” to correctly pitch and support the gutters. This installation method will accommodate and preserve the existing fascia.

Gutter guards are an essential and crucial component of effective gutters. AOI has investigated various gutter guard options (for both K-style and half-round gutter styles), and has decided that the Raindrop Gutter Guard affords the most effective option. This gutter guard installs under the shingles at the eaves and extends over the gutters, and basically becomes an extension of the roof profile (which enhances performance – no edge or profile change at the back of the gutter to trap leaves or debris; facilitates water flow). Visually, from the ground, it appears as a “shadow” and blends in with the roof at the edge. It will not be visible from the ground on the high roof slopes, and will not be noticed on the lower roofs.

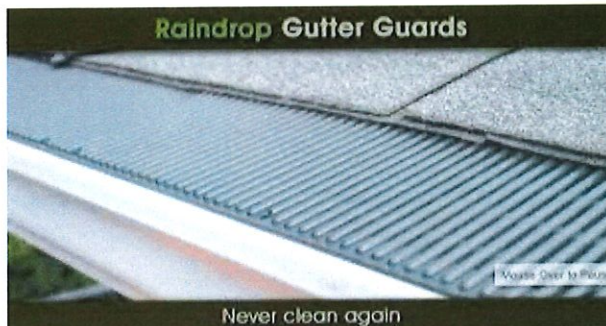
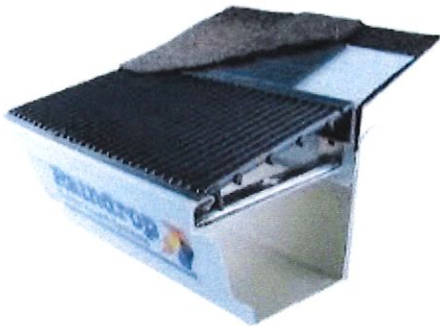
K-style gutters were selected over half-round gutters for several reasons:

- **Water management:** K-style gutters carry more water than half-round gutters. Additionally, K-style gutters are more effective on roofs with steep slopes, where the rain drains faster and more forcefully down the slope. The predominant slope on the high roofs on this building is a very steep 9 in 12. With this steep slope, half-round gutters would be more susceptible to the draining waters “over-shooting” the gutters and cascading over the edge.
- **Structural:** K-style gutters have more structural stiffness than half-round gutters, are a more stable installation when using hangers and shims to accommodate angled fascia, and can better withstand water and snow loads. This is especially important, given the height (approximately 30 feet) of some slopes on which these gutters will be installed.
- **Gutter Guard:** The preferred gutter guard, Raindrop, is not compatible with half-round gutters.
- **Neighborhood Compatibility:** Other houses in the Blount Street Historic District have K-style gutters.



Depiction of the K-style gutters:

Depictions of the Raindrop Gutter Guards:



Further information on Raindrop Gutter Guards can be found at web site:

<http://www.raindropgutterguard.com/>

<http://raindropgutterguard.com/blog/portfolio-items/whirley-bird-maple-seed-test-of-raindrop-gutter-guard-vs-all-others/>

ROOF SHINGLES AND FLASHINGS:

Existing Conditions:

The existing roof covering on the building is laminated asphalt shingles, with the exception of a small flat roof slope at the back which is covered with single ply rubber membrane. The only information in the RHDC's files for the building indicates that re-roofing was last addressed in 1990. AOI has no additional information regarding the age of the current roof shingles. Based on recent inspections, the shingles are aged.

Because of the height of the building, the roof shingles on the majority of the building are not visible from ground levels. Shingles are visible primarily on front and back porches, and a small section that extends out at the back of the north side of the building.

Additionally, existing flashing on lower roofs at the roof-to-wall interfaces are incorrectly applied onto the exterior of the siding, and thus not extended behind the siding or interwoven with siding and shingles in a correct "stepped" application. Moreover, the siding incorrectly abuts the roof shingles at the roof-to-wall interfaces, allowing rainwater to wick into and degrade the siding. (See Enclosures/Photographs 7-9) The current incorrect siding and flashing applications at the roof-to wall interfaces potentially compromise the building envelope, as well as the siding and roofing materials.

Replacements:

AOI plans to replace the existing roof shingles with new laminated asphalt shingles of similar type and color as the existing shingles, such as CertainTeed Landmark asphalt shingles (or comparable):



See product literature attached for more information. (Enclosures/Product Literature 1)

As part of the re-roofing, all flashings will be correctly installed as needed.

HVAC UNITS:

Existing Conditions:

The building is serviced by two separate HVAC units (one for each floor). The first floor is serviced by a “gas package” unit (both heat and air conditioning) that bears a serial number indicating installation circa 2005. The second floor is serviced by a heating unit installed in the attic, and an air conditioning unit that bears a serial number indicating installation circa 1992.

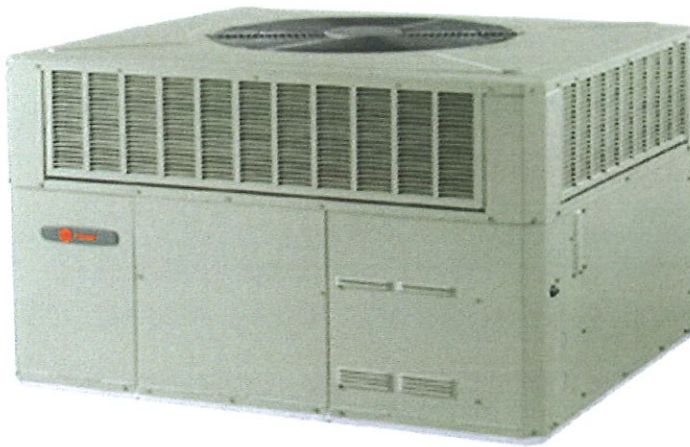
Both units are located in the yard outside the exterior wall on the north side of the building. The units are behind the picket fence that surrounds the property, well back in the side yard, and barely visible from Blount Street. See enclosed photographs. (See Enclosures/Photographs 10-12)

Because of their ages, the existing gas pack and air conditioning units are not functioning efficiently. Considerable (excessive) condensation results from each unit, and emits in the crawlspace from “sweating ducts” as well as on the ground along the exterior foundation wall (temporary pipes on top of the ground have been installed to mitigate this), adding to moisture issues.

Replacements:

AOI plans to replace the units with updated units of similar kind, size, and appearance in approximately the same locations as the existing units. Replacement units will be the following (or comparable):

- Trane XR14C 14 seer, 2.5 ton gas pack/air conditioner (replacement for the existing gas pack unit servicing the first floor).



- Trane 15 seer, 3 ton air conditioner with 80% gas furnace and evaporator coil (replacement of unit servicing the second floor).



For further information on these units, see enclosed product literature from Trane. (Enclosures/Product Literature 2 & 3)

ENCLOSURES LOG

PHOTOGRAPHS

- 1 West Side – Facing Blount St – Front
- 2 West Side / South Side –
- 3 South Side – Facing Pace St - From Front
- 4 South Side – From Back
- 5 East / South Side - Back
- 6 North Side
- 7 South Side / Front – Showing Incorrect Flashing
- 8 East / Back – Showing Incorrect Flashing & Shingle Installation
- 9 North Side / Back – Showing Incorrect Flashing & Shingle Installation
- 10 North Side – Showing Existing HVAC Unit (Gas Pack)
- 11 North Side – Showing Existing HVAC Units (A/C behind Gas Pack)
- 12 North Side – Showing Existing HVAC Units Behind Fence from Blount St

PLANS

From Architectural plans prepared by Robert Collier, AIA, of AlphaCollier Architects, approved by the RHDC in 2006, in connection with renovation work by Peace College (the owner of the building at that time). Full-sized originals of these plans are in the RHDC files for this renovation work.

- 1 Cover Sheet from Plans Approved By RHDC in 2006
- 2 Sheet A3 from Plans Approved By RHDC in 2006 (Gutters & Downspouts Highlighted)
- 3 Enlarged elevation from Plans – West Side – Facing Blount St
- 4 Enlarged elevation from Plans – South Side – Facing Pace St
- 5 Enlarged elevation from Plans – East Side – Back
- 6 Enlarged elevation from Plans – North Side

PRODUCT LITERATURE

- 1 Certaineed Landmark Shingles
- 2 Trane Gas Packaged Unit
- 3 Trane A/C Unit



702

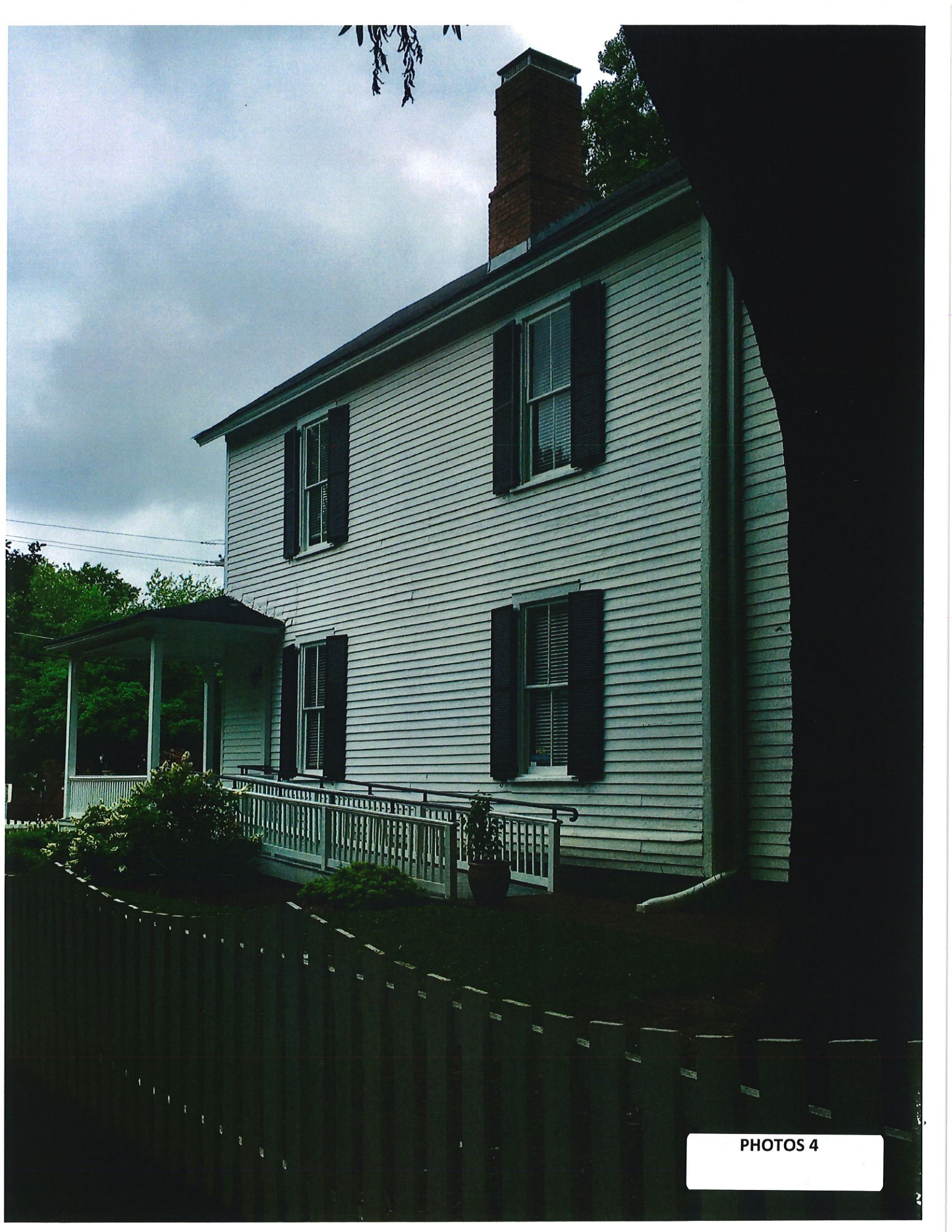
ANGEL OAK

PHOTOS 1





PHOTOS 3



PHOTOS 4



PHOTOS 5



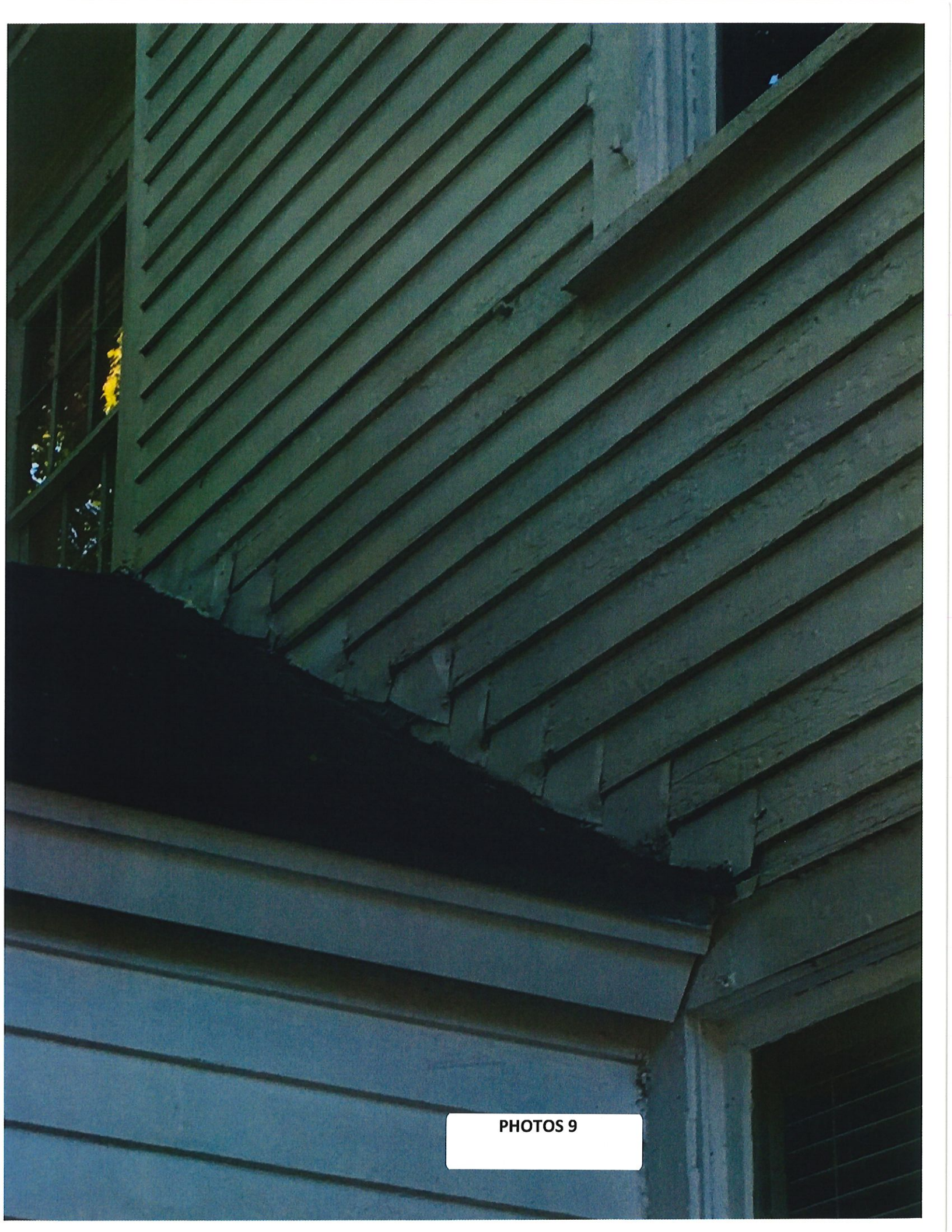
PHOTOS 6



PHOTOS 7



PHOTOS 8



PHOTOS 9



PHOTOS 10



PHOTOS 1



702 N. BLOUNT STREET OFFICE PEACE COLLEGE

RALEIGH, NORTH CAROLINA



Alpha Collier

ALPHACOLLIER, INC.
801 WASHINGTON STREET
RALEIGH, NC 27601
P. 919.832.3825
F. 919.832.8729
www.alpha-c.com



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NOTE: DRAWINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NORTH CAROLINA CONSTRUCTION CODE AND THE NORTH CAROLINA ELECTRICAL CODE, UNLESS OTHERWISE SPECIFIED.

REVISIONS

REVISION INDEX CORRECTED

PLANS 1

| INDEX TO DRAWINGS | | | |
|-------------------|---|-----------|-------------------|
| SHEET NO. | SHEET DESCRIPTION | SHEET NO. | SHEET DESCRIPTION |
| CVR | COVER | | |
| | BUILDING DATA INFORMATION | | |
| B01 | BUILDING DATA - APPENDIX B | | |
| B02 | BUILDING DATA - REHAB CODE DECISION TREE | | |
| | SUPPORTING DOCUMENTS FOR HISTORIC PROPERTY | | |
| | SITE AND LANDSCAPE | | |
| C1 | SITE STAKING PLAN / DETAILS | | |
| L1 | SITE AND LANDSCAPE PLAN / PLOT PLAN | | |
| | ARCHITECTURAL | | |
| A1 | FLOOR PLAN - DEMOLITION | | |
| A2 | FLOOR PLAN - NEW WORK | | |
| A3 | ELEVATIONS / DETAILS | | |
| A4 | FRAMING PLAN - EXTERIOR | | |
| | DOOR SCHEDULES / DOOR DETAILS / FINISH SCHEDULE | | |
| A5 | SPECIFICATIONS | | |
| A6 | SPECIFICATIONS | | |
| | PLUMBING | | |
| P-1 | PLUMBING PLANS / SCHEDULES / SPECIFICATIONS | | |
| | ELECTRICAL | | |
| E-1 | ELECTRICAL RISER DIAGRAM / PANEL SCHEDULES | | |
| | SPECIFICATIONS | | |
| E-2 | ELECTRICAL FLOOR PLANS / LIGHTING SCHEDULE | | |
| | FIRE ALARM | | |
| FA-1 | FIRE ALARM RISER / FLOOR PLANS / SPECIFICATIONS | | |

| SYMBOL LEGEND | | MATERIAL LEGEND | |
|--------------------------------------|---|---|--|
| SECTION OR DETAIL IDENTIFICATION NO. | DIRECTION OF SECTION OR DETAIL CUT | EARTH (ORIGINAL GRADE) | |
| SECTION OR DETAIL IDENTIFICATION NO. | LOCATION WHERE SECTION OR DETAIL OCCURS | EARTH (COMPACTED FILL) | |
| SECTION OR DETAIL IDENTIFICATION NO. | SECTION TITLE OF SECTION | GRAVEL OR FILL | |
| SECTION OR DETAIL IDENTIFICATION NO. | SCALE OF SECTION | CONCRETE IN SECTION | |
| SECTION OR DETAIL IDENTIFICATION NO. | LOCATION WHERE SECTION OR DETAIL OCCURS | MORTAR (CEMENT-PLASTER-STUCCO) CONCRETE IN PLAN | |
| SECTION OR DETAIL IDENTIFICATION NO. | ELEVATION TITLE OF ELEVATION | CONCRETE MASONRY UNITS (SMALL SCALE-PLAN) | |
| SECTION OR DETAIL IDENTIFICATION NO. | SCALE OF ELEVATION | CONCRETE MASONRY UNITS (SMALL, LARGE SCALE - SECTION) | |
| SECTION OR DETAIL IDENTIFICATION NO. | LOCATION WHERE SECTION OR DETAIL OCCURS | STEEL - LARGE SCALE | |
| SECTION / DETAIL SYMBOL | | INSULATION (BLOCK) | |
| SECTION OR DETAIL IDENTIFICATION NO. | DIRECTION OF ELEVATION | INSULATION (WOOLY OR FIBER) | |
| SECTION OR DETAIL IDENTIFICATION NO. | LOCATION WHERE SECTION OR DETAIL OCCURS | WOOD (SOLID CONTIGUOUS) | |
| SECTION OR DETAIL IDENTIFICATION NO. | ELEVATION TITLE OF ELEVATION | WOOD (BOVING) | |
| SECTION OR DETAIL IDENTIFICATION NO. | SCALE OF SECTION | WOOD (HORIZONTAL) | |
| SECTION OR DETAIL IDENTIFICATION NO. | LOCATION WHERE SECTION OR DETAIL OCCURS | PLYWOOD | |
| ELEVATION SYMBOL | | CERAMIC TILE | |
| ROOM NAME AND NUMBER | NOTE SYMBOL | GLASS IN PLAN | |
| GROUP SYMBOL | COLUMN SYMBOL AND CENTERLINE | GLASS IN ELEVATION | |
| DOOR SYMBOL | MISCELLANEOUS | GLASS IN BOARD | |
| | | STEEL - SMALL SCALE | |
| | | BRICK (MASONRY DESIGNATED BRICK 1, BRICK 2, BRICK 3, BRICK 4) | |

NOTE: MATERIALS SHALL BE AS INDICATED ABOVE AND AS NOTED ON LINEPLANS.

COVER

RENOVATION AND ADDITION

702 N. BLOUNT ST OFFICE

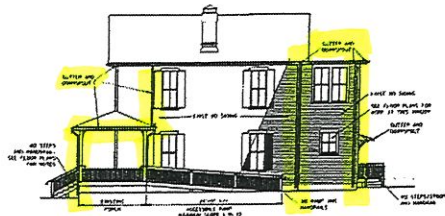
PEACE COLLEGE RALEIGH, NC

DRAWN: [] INCHES: []
DATE: AUGUST 11, 2004
PROJECT: 2006.016

SHEET NO. []
COVER



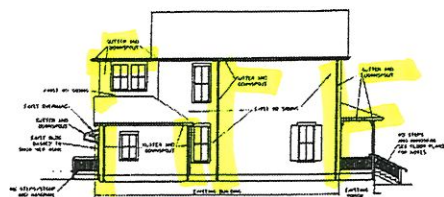
2 ELEVATION - WEST
SCALE: 1/8" = 1'-0"



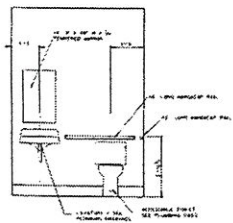
2 ELEVATION - SOUTH (FROM PACE STREET)
SCALE: 1/8" = 1'-0"



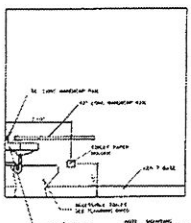
3 ELEVATION - EAST (REAR)
SCALE: 1/8" = 1'-0"



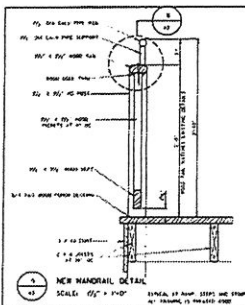
3 ELEVATION - NORTH
SCALE: 1/8" = 1'-0"



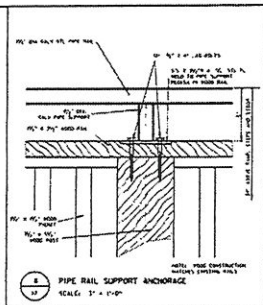
1 TOILET ELEVATION
SCALE: 1/8" = 1'-0"



2 TOILET ELEVATION
SCALE: 1/8" = 1'-0"



1 NEW HANDRAIL DETAIL
SCALE: 1/8" = 1'-0"



2 PIPE RAIL SUPPORT ANCHORAGE
SCALE: 1/8" = 1'-0"



Alpha Collier

1000 BLOUNT ST
FALLS CHURCH, VA 22034
703.422.1111
www.alphacl.com



REVISIONS
NO. DESCRIPTION
DATE

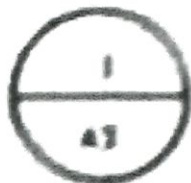
ELEVATIONS
DETAILS

RENOVATION AND
ADDITION
702
N. BLOUNT ST
OFFICE
PEACE COLLEGE
FALLS CHURCH, NC

DATE: AUGUST 16, 2006
PROJECT: 2006.016

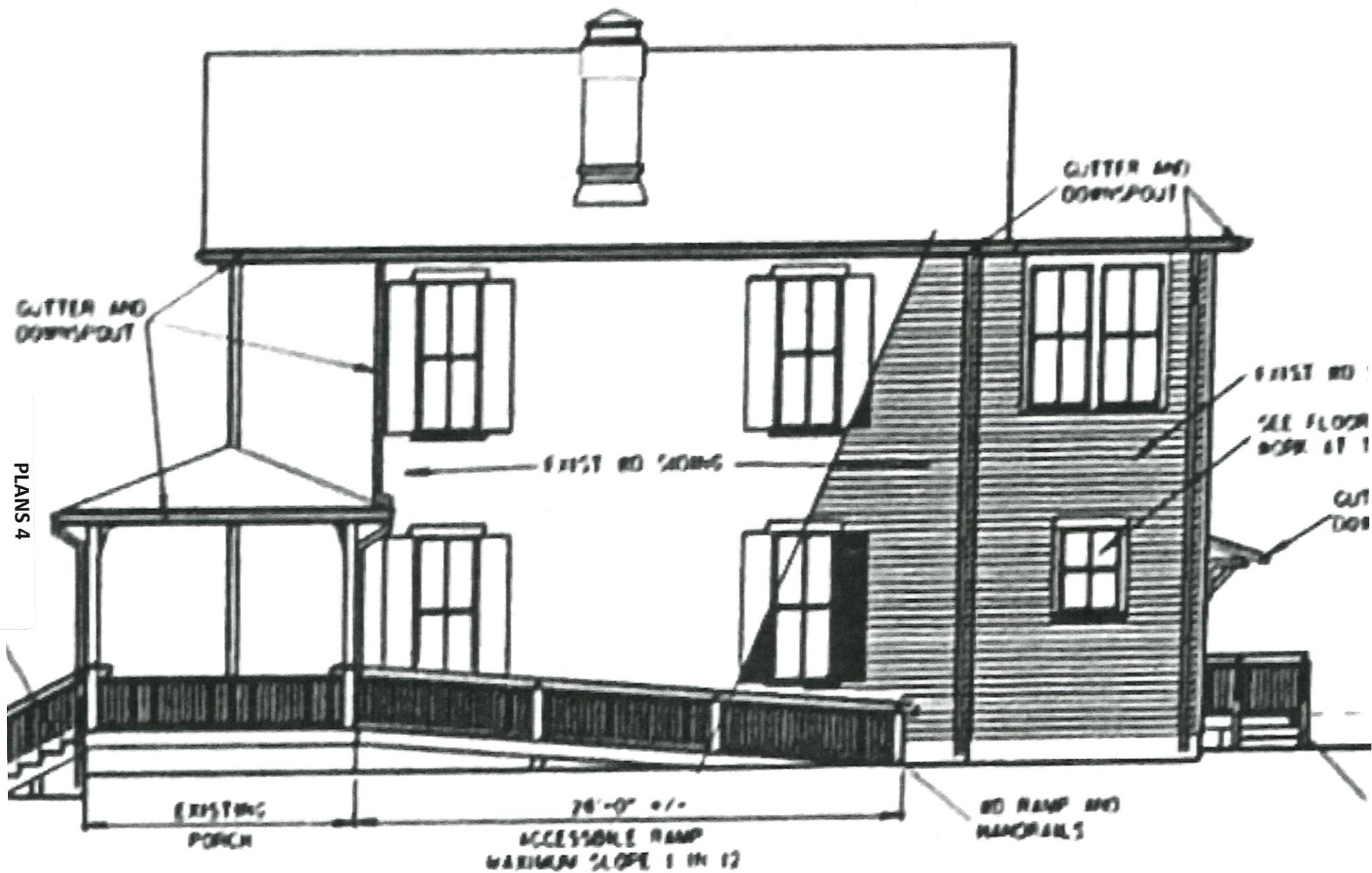
SHEET NO. A3

PLANS 3



ELEVATION - WEST

SCALE: $\frac{1}{8}'' = 1'-0''$

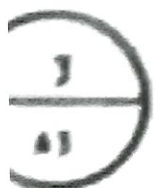
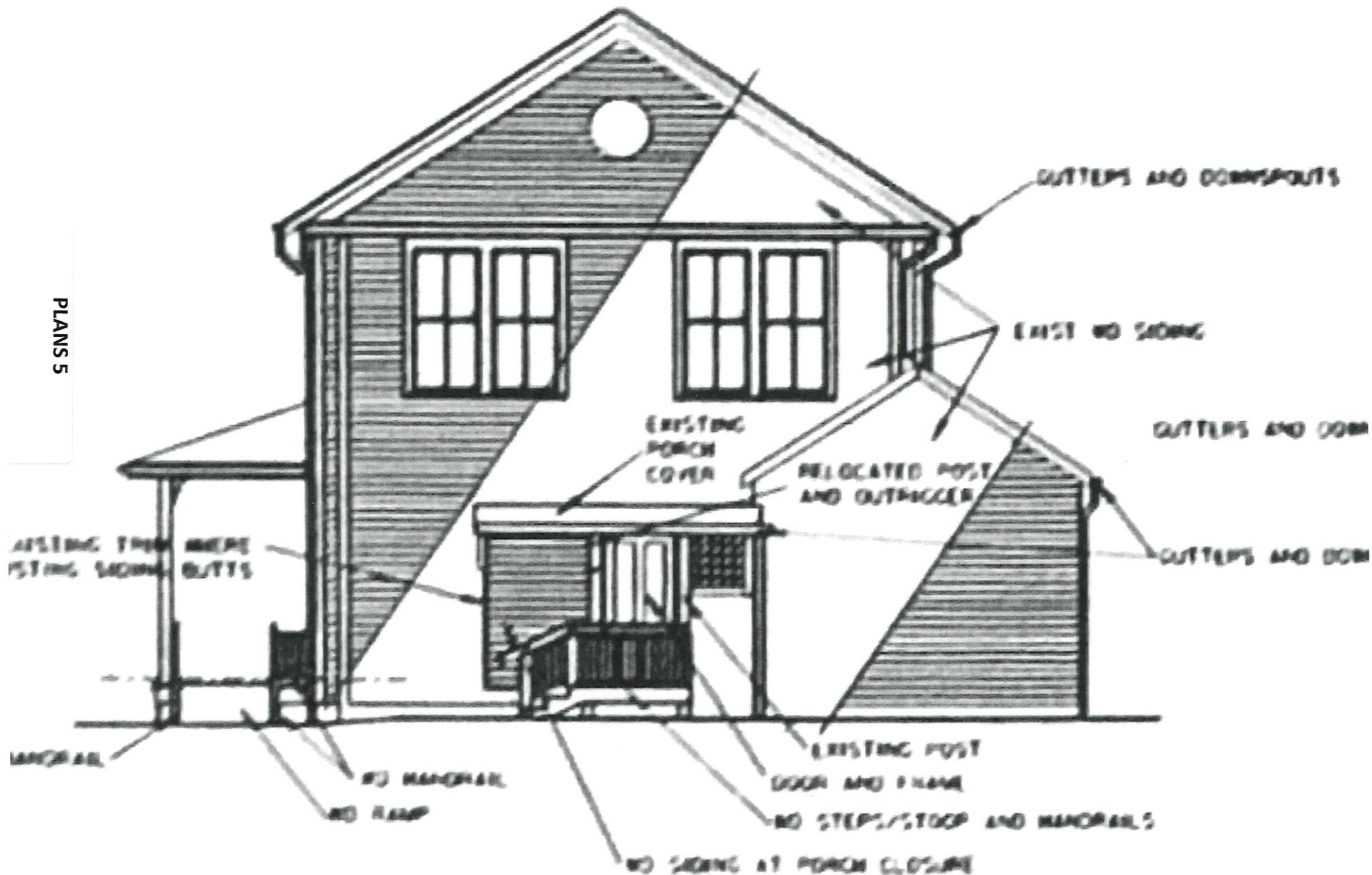


PLANS 4

ELEVATION - SOUTH (FROM PACE STREET)

SCALE: 1/8" = 1'-0"

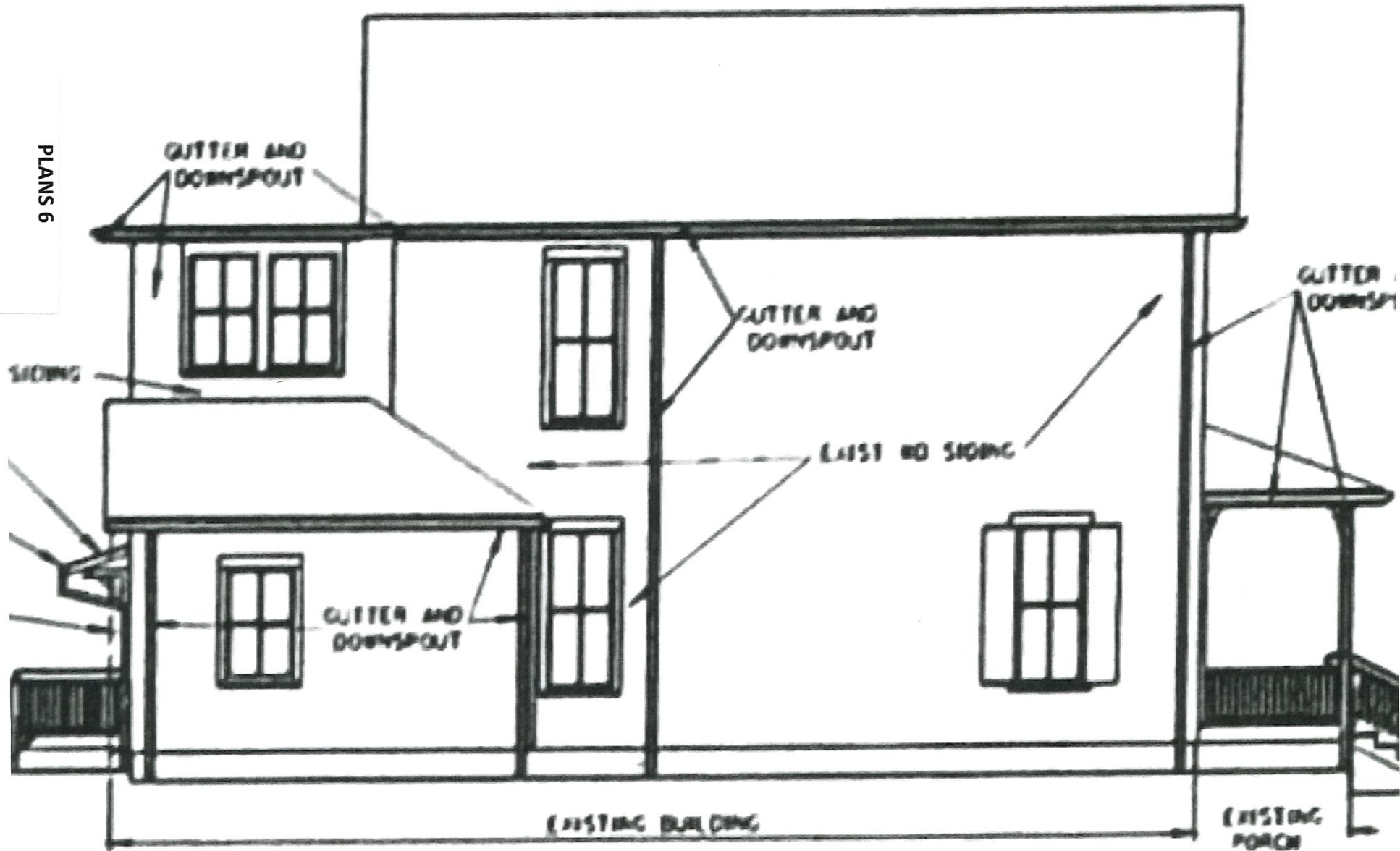
PLANS 5



ELEVATION - EAST (REAR)

SCALE: 1/8" = 1'-0"

PLANS 6



ELEVATION - NORTH

SCALE: 1/8" = 1'-0"



Landmark Impact Resistant, shown in Colonial Slate



COLOR AVAILABILITY

Burnt Sienna

Colonial Slate

Heather Blend

Max Def Weathered Wood

Moire Black

Resawn Shake

Shenandoah

Weathered Wood

LANDMARK®

Impact Resistant

- Fiberglass-based construction
- 250 lbs. per square
- Lifetime limited transferable warranty*
- 10-year SureStart™ protection
- 10-year StreakFighter® algae-resistance warranty
- 15-year 110 mph wind-resistance warranty
- Wind warranty upgrade to 130 mph available. CertainTeed starter and CertainTeed hip and ridge required

* See warranty for specific details and limitations.



CertainTeed products are tested to ensure the highest quality and comply with the following industry standards:

Fire Resistance:

- UL Class A

Wind Resistance:

- UL certified to meet ASTM D3018 Type 1
- ASTM D3161 Class F

Tear Resistance:

- UL certified to meet ASTM D3462
- CSA standard A123.5-98

Impact Resistance:

- UL2218 Class 4


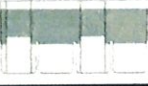





Wind Driven Rain Resistance:

- Miami-Dade Product Control Acceptance: Please reference www.certainteed.com to determine approved products by manufacturing location.



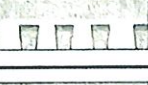




Quality Standards:

- ICC-ES-ESR-1389 & ESR-3537



SELECTION GUIDE

| | | Shingle Construction and Description | Weight (lbs. per square) | UL Class A Fire Resistance Rating | UL Certified to Meet ASTM D3462 | UL Certified to Meet ASTM D3018 Type 1 | UL 2218 Impact Resistance Rating | ASTM D3161 Wind Resistance |
|---|---|---|--------------------------|-----------------------------------|---------------------------------|--|----------------------------------|----------------------------|
| Grand Manor |  | Two full-size, fiberglass-based shingles with randomly applied tabs; Authentic depth and dimension of natural slate; Virtual five-layer coverage when applied | 425 | ✓ | ✓ | ✓ | | Class F, 110 mph |
| Belmont Impact Resistant Version Available |  | Single layer, fiberglass-based shingles with randomly applied tabs; Authentic depth and dimension of natural slate | 275 | ✓ | ✓ | ✓ | Class 4 | Class F, 110 mph |
| Carriage House |  | Two full-size, fiberglass-based shingles; Unique chamfered cut for scalloped appearance; Four-layer coverage when applied | 350 | ✓ | ✓ | ✓ | | Class F, 110 mph |
| Presidential Shake TL |  | Three-piece laminated fiberglass construction; Distinctive sculpted, rustic look | 475 | ✓ | ✓ | ✓ | | Class F, 110 mph |
| Presidential Shake Impact Resistant Version Available (Select colors) |  | Two-piece laminated fiberglass-based construction; Distinctive sculpted, rustic look | 355 | ✓ | ✓ | ✓ | Class 4 | Class F, 110 mph |
| Presidential Solaris Gold |  | Two-piece laminated fiberglass-based construction; Distinctive sculpted, rustic look  | 355 | ✓ | ✓ | ✓ | | Class F, 110 mph |

DESIGNER SHINGLES

| | | | | | | | | |
|---|---|--|----------------|---|---|---|---------|------------------|
| Landmark Premium |  | Two-piece laminated fiberglass-based construction; Classic shades and dimensional appearance of natural wood or slate | 300 | ✓ | ✓ | ✓ | | Class F, 110 mph |
| Landmark Pro |  | Two-piece laminated fiberglass-based construction; Classic shades and dimensional appearance of natural wood or slate | 250 | ✓ | ✓ | ✓ | | Class F, 110 mph |
| Landmark Impact Resistant Version Available |  | Two-piece laminated fiberglass-based construction; Classic shades and dimensional appearance of natural wood or slate | 229/235 250 | ✓ | ✓ | ✓ | Class 4 | Class F, 110 mph |
| Landmark Solaris |  | Two-piece laminated fiberglass-based construction; Classic shades and dimensional appearance of natural wood or slate  | 250 | ✓ | ✓ | ✓ | | Class F, 110 mph |
| Highland Slate Impact Resistant Version Available (Select colors) |  | Single layer fiberglass-based construction; Blended shades and dimensional appearance of natural slate | 240 | ✓ | ✓ | ✓ | Class 4 | Class F, 110 mph |
| Patriot |  | Architectural style shingle; Single layer fiberglass-based construction; Intricate color blend drops combined with intermittent shadow lines | 215 | ✓ | ✓ | ✓ | | Class F, 110 mph |

TRADITIONAL SHINGLES

| | | | | | | | | |
|--------------|---|--|-----|---|---|---|--|------------------|
| XT 25 |  | Fiberglass composition; Designed for long-lasting performance and durability | 205 | ✓ | ✓ | ✓ | | Class F, 110 mph |
| CT 20 |  | Fiberglass composition; Designed for long-lasting performance and durability | 195 | ✓ | ✓ | ✓ | | Class F, 110 mph |

| Miami-Dade Product Control Acceptance | Conforms To CSA Standard A123.5 | Limited Transferable Warranty Against Manufacturing Defects On Residential Applications <small>*50-Year on Group-owned or Commercial Applications</small> | StreakFighter algae-resistance Warranty (where available) | SureStart Protection | Wind-Resistance Warranty <small>Upgraded wind warranty available. See warranty for details and limitations</small> | Shingle Size | Bundles Per Square |
|---------------------------------------|---------------------------------|--|---|----------------------|---|------------------------------|--------------------|
| ✓ | ✓ | Lifetime* | 15-year | 10-year | 15-year 110 mph ** | 18" x 36" 8" Exposure | 5 |
| | ✓ | Lifetime* | 15-year | 10-year | 15-year 110 mph ** | 18" x 36" 8" Exposure | 4 |
| ✓ | ✓ | Lifetime* | 15-year | 10-year | 15-year 110 mph ** | 18" x 36" 8" Exposure | 5 |
| ✓ | ✓ | Lifetime* | 15-year | 10-year | 15-year 110 mph ** | 14 1/4" x 40" 4" Exposure | 6 |
| ✓ | ✓ | Lifetime* | 15-year | 10-year | 15-year 110 mph ** | 14 1/4" x 40" 4" Exposure | 5 |
| ✓ | ✓ | Lifetime* | 15-year | 10-year | 15-year 110 mph ** | 14 1/4" x 40" 4" Exposure | 5 |

| | | | | | | | |
|---|---|-----------|---------|---------|--------------------------|--------------------------------------|---|
| ✓ | ✓ | Lifetime* | 15-year | 10-year | 15-year 110 mph ** | 13 1/4" x 38 3/4" 5 5/8" Exposure | 4 |
| ✓ | ✓ | Lifetime* | 15-year | 10-year | 15-year 110 mph ** | 13 1/4" x 38 3/4" 5 5/8" Exposure | 3 |
| ✓ | ✓ | Lifetime | 10-year | 10-year | 15-year 110 mph ** | 13 1/4" x 38 3/4" 5 5/8" Exposure | 3 |
| ✓ | ✓ | Lifetime* | 15-year | 10-year | 15-year 110 mph ** | 13 1/4" x 38 3/4" 5 5/8" Exposure | 3 |
| ✓ | ✓ | Lifetime* | 15-year | 10-year | 15-year 110 mph ** | 18" x 36" 8" Exposure | 3 |
| | ✓ | 30-year | 10-year | 8-year | 10-year 110 mph | 13 1/4" x 39 3/8" 5 5/8" Exposure | 3 |

| | | | | | | | |
|---|--|---------|---------|--------|------------------|--------------------------|---|
| ✓ | | 25-year | 10-year | 5-year | 5-year 60 mph | 12" x 36" 5" Exposure | 3 |
| ✓ | | 20-year | | 3-year | 5-year 60 mph | 12" x 36" 5" Exposure | 3 |

CertainTeed starter and CertainTeed hip and ridge required.

*** With approved underlayment

High-Performance Starter

Starter Course shingle specifically for use with Grand Manor, Belmont and Highland Slate—and the only approved installation alternative to using the shingles themselves.

- 10" x 36", 102 lineal ft. per bundle, 34 shingles per bundle
- Provides labor and cost savings by not cutting shingles
- Dual sealant strip for increased wind resistance
- Better look with straight factory-cut eave edge

Presidential Starter

Required for Presidential Shake TL and Presidential Shake applications.

- 13 1/4" x 40" (required double layer), 36.5 lineal ft. per bundle (based on 2-layer application), 22 shingles per bundle
- Two layers of straight factory-cut eave edge
- Available in the entire Presidential Shake TL and Presidential Shake color line
- Assures Class A fire rating
- Saves significant installation time

CertainTeed Swiftstart®

CertainTeed Swiftstart metric starter shingle is designed specifically for use with CertainTeed Landmark Series shingles. Rather than cutting expensive field shingles to use as starters, you can save time and money by starting with Swiftstart.

- Code-compliant, meets min. 2" headlap requirement for metric shingles; many competing products do not
- Each 18-piece bundle covers 116 lineal ft.
- Recommended for use to obtain enhanced warranties

Ventilation

- CertainTeed Ridge Vent 12" unfiltered
- CertainTeed Ridge Vent 12" filtered
- CertainTeed Rolled Ridge Vent unfiltered
- CertainTeed Intake Vent filtered
- CertainTeed Static Vent - Aluminum and Plastic

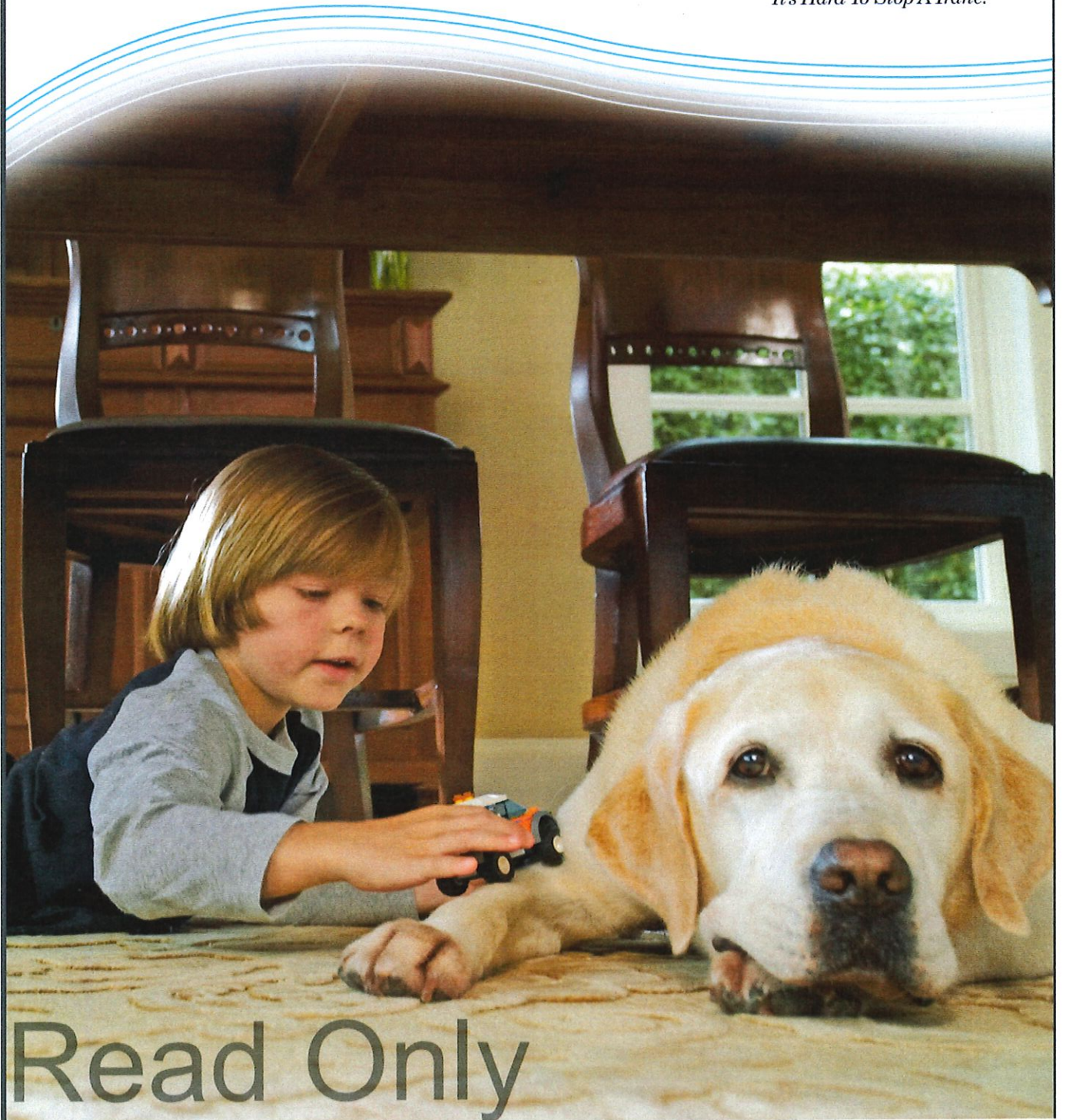


Trane Packaged Systems

Everything comes together perfectly.



It's Hard To Stop A Trane.®



Read Only



**Efficiency, comfort and reliability.
Trane delivers the whole package.**

**Trane has a tradition of quality
lasting more than a century.**



Trane Storefront
La Crosse, Wisconsin 1891
Courtesy of the La Crosse (Wisconsin)
Public Library Archives

Over a hundred years ago, Reuben and James Trane made the decision to stand out from the crowd. To build a comfort system like no other, using uncompromising quality, innovation and reliability. Today, their legacy is found in everything Trane makes, from our premium materials to our industry-leading technology to our extensive product testing under the harshest

conditions. When you buy a Trane, you're buying a commitment from us, to you. A commitment to your total comfort, and your total peace of mind. Because that's what Reuben and James would have done.

When it comes to heating and cooling homes, people view Trane equipment as the most reliable and longest lasting in the industry.* People expect more from a leader, and Trane delivers.

- Winner of the Dealer Design Award presented by Air Conditioning, Heating & Refrigeration NEWS, the industry's leading trade publication, for the fifth year in a row.
- Winner of the David Weekley Homes' prestigious Partners of Choice Award for Service and Product Performance.

People trust Trane to deliver more. So we do. Every Trane packaged system is built with only premium materials, according to time-tested designs that deliver serious reliability and performance using less energy. To Trane, nothing is more important than your comfort and peace of mind.

Read Only

*Independent 2012 HVAC Claim Study, Funded by Ingersoll Rand



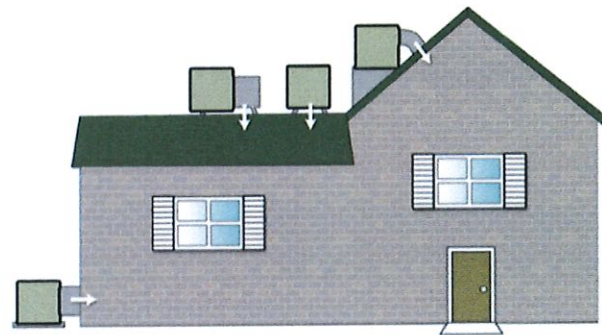
Flexible enough to install where you need it. Tough enough to be a Trane.

Trane packaged heating and cooling systems give you everything in one. High performance comfort all year long, with the reliability, efficiency and performance that only a leader can deliver. All with the architectural flexibility to accommodate rooftop or ground placement.

Trane packaged systems are built with Climatuff® compressors, tested in brutal conditions and known throughout the industry for their reliability. We insist on only premium materials, and design every component for durability, from our patented Vortica™ blower to the all-aluminum construction of our Spine Fin™ coils. Your comfort is riding on everything we build, and we don't take that lightly.

Quietly dedicated to your comfort.

We're as concerned with your peace and quiet as we are your comfort. So we build our packaged systems to be some of the quietest ever made, with sound-reducing features like a swept-blade fan, an insulated area for the Climatuff® compressor and a specially-shaped Vortica™ blower in its own compartment, for quiet operation year after year.

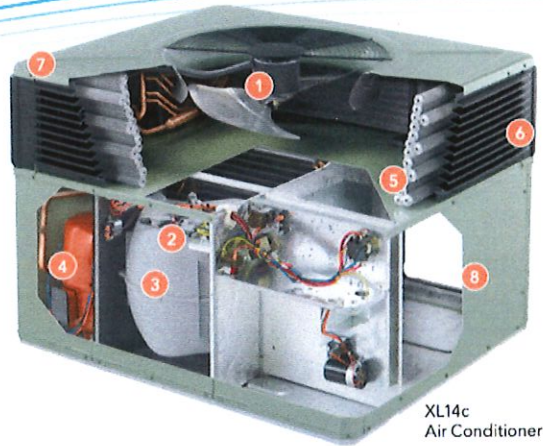


The precise comfort of variable speed and Trane's exclusive Comfort-R.™

Trane packaged systems are full of innovations designed to fine-tune your comfort. For example, every XL16c and XL14c packaged system includes a variable-speed motor with Comfort-R.™ Variable-speed means quieter operation and fewer hot and cold spots throughout your home. Comfort-R provides precise humidity control by drawing more moisture out during startup. Together, they can do amazing things to your air, making you feel more comfortable.

Read Only

Take a look inside Trane packaged air conditioners.



XL14c
Air Conditioner

Features and components may vary by model and are shown for illustration purposes only.

- 1 State-Of-The-Art Fan System**
A highly-efficient motor and sophisticated aerodynamic blade move air across the coil quietly and efficiently.
- 2 Variable-Speed Blower Motor With Comfort-R™**
Provides quieter startups and shutdowns, and distributes air evenly to eliminate hot and cold spots. Exclusive Comfort-R provides precise humidity control for increased comfort.
- 3 Composite Vortica™ Blower**
An advanced airflow system that moves air quickly and quietly while using less energy.

- 4 Climatuff® Compressor**
Known throughout the industry for its legendary reliability and efficient, quiet operation.
- 5 All-Aluminum Spine Fin™ Coil**
Extremely resistant to corrosion and leaks for greater reliability. Enhanced airflow helps increase comfort and efficiency.
- 6 Attractive, Contrasting Louvers**
Automotive-grade, UV-resistant plastic louvers provide attractive, long-lasting protection.

- 7 Durable Weather-Beater Top**
Specially contoured and reinforced to deflect the elements year after year.
- 8 Appliance-Grade Finish**
All-steel construction and UV resistant paint means your packaged system stays attractive for years.

Air Conditioners

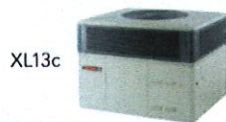
XL14c: Ultra quiet performance with a SEER of up to 14.25.

XL13c: Stay efficient and comfortable all summer with a SEER of 13.

XB13c/XR14c: Reliable comfort on even the hottest days, with a SEER of up to 14.



XL14c



XL13c



XB13c
XR14c

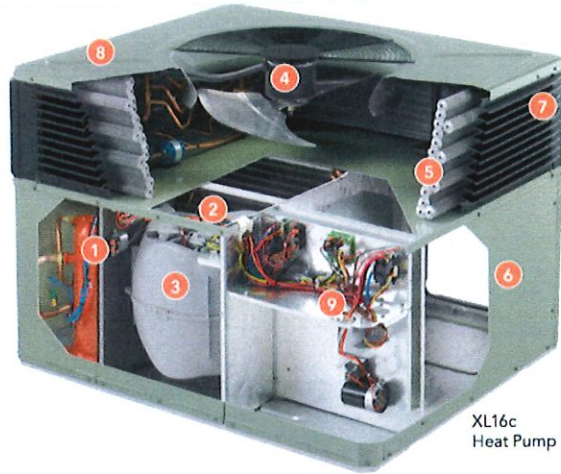
| | XL14c | XL13c | XB13c XR14c |
|---|-------|-------|----------------|
| Variable-Speed Blower Motor With Comfort-R™ | • | | |
| Attractive, Contrasting Louvers | • | • | |
| State-Of-The-Art Fan System | • | • | |
| Climatuff® Compressor | • | • | • |
| All-Aluminum Spine Fin™ Coil | • | • | • |
| Composite Vortica™ Blower | • | • | • |
| Durable Weather-Beater Top | • | • | • |
| Appliance-Grade Finish | • | • | • |
| Optional Electric Heater Kit | • | • | • |

Read Only

Trane packaged heat pumps, quality inside and out.



- 1 Climatuff® Two-Stage Compressor**
 Legendary reliability, with two stages of cooling for efficiency and quiet operation. Operates at lower speeds most of the time, using the higher speed only when needed.
- 2 Variable-Speed Blower Motor with Comfort-R™**
 Distributes air more evenly to eliminate hot and cold spots, while operating at reduced noise levels. Exclusive Comfort-R provides precise humidity control to enhance your comfort.
- 3 Composite Vortica™ Blower**
 An advanced design increases airflow with minimal sound.
- 4 State-Of-The-Art Fan System**
 A highly-efficient motor and specially-shaped aerodynamic blade move air across the coil quietly and efficiently.
- 5 All-Aluminum Spine Fin™ Coil**
 Extremely resistant to corrosion and leaks for greater reliability. Designed for more efficient, effective airflow.



Features and components may vary by model and are shown for illustration purposes only.

XL16c Heat Pump

- 6 Appliance-Grade Finish**
 Heavy rolled steel with UV resistant paint means your packaged system stays attractive for years.
- 7 Attractive, Contrasting Louvers**
 Made of UV-resistant, automotive-grade plastic for attractive, durable protection.
- 8 Durable Weather-Beater Top**
 Tough and durable, specially shaped and reinforced to shrug off the elements.
- 9 Electronic Demand Defrost**
 Advanced solid-state control eliminates unnecessary defrost cycles, saving energy and prolonging compressor life.

Heat Pumps

XL16c: SEER of up to 16 and a HSPF of up to 8.5.

XL14c: Year-round comfort with the efficiency of up to 14.25 SEER and a HSPF of up to 8.2.

XL13c: 13 SEER and 8 HSPF keep you comfortable through any weather.

XB13c/XR14c: Reliable, quiet and comfortable, with up to 14 SEER and 8.0 HSPF.

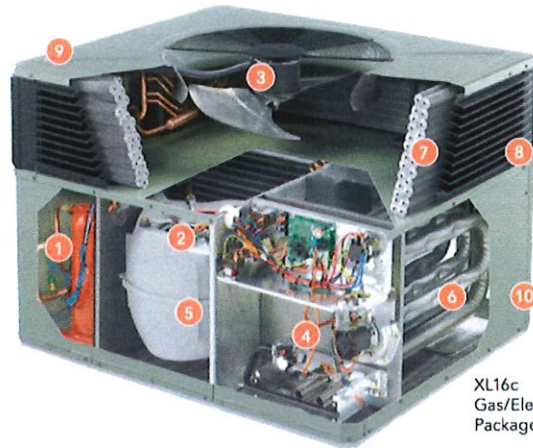
XR14h: Up to 16 SEER and up to 8.2 HSPF in an over/under design.



| | XL16c | XL14c | XL13c | XB13c XR14c | XR14h |
|---------------------------------|-----------|-------|-------|----------------|-------|
| Variable-Speed Indoor Blower | • | • | • | • | • |
| Attractive, Contrasting Louvers | • | • | • | • | • |
| State-Of-The-Art Fan System | • | • | • | • | • |
| Durable Weather-Beater Top | • | • | • | • | • |
| Composite Vortica™ Blower | • | • | • | • | • |
| All-Aluminum Spine Fin™ Coil | • | • | • | • | • |
| Optional Electric Heater Kit | • | • | • | • | • |
| Appliance-Grade Finish | • | • | • | • | • |
| Electronic Demand Defrost | • | • | • | • | • |
| Climatuff® Compressor | Two-stage | • | • | • | • |

Read Only

Trane gas/electric packaged systems, a difference you can feel every day.



XL16c
Gas/Electric
Packaged System

Features and components may vary by model and are shown for illustration purposes only.

1 Climatuff® Two-Stage Compressor

Legendary reliability, with two stages of cooling for efficiency and quiet operation. Operates at lower speeds most of the time, using the higher speed only when needed.

2 Variable-Speed Blower Motor with Comfort-R™

Distributes air evenly to eliminate hot and cold spots. Allows quieter startups and shutdowns, while carefully controlling humidity levels.

3 State-Of-The-Art Fan System
Uses a specially-shaped aerodynamic blade for efficiency, performance and the quietest operation on the market of any packaged system.

4 Two-Stage Heating Capacity
Provides even, efficient comfort with two stages of heating, eliminating hot and cold spots.

5 Composite Vortica™ Blower
Uses less energy to move more air, quickly and quietly.

6 Stainless Steel Heat Exchanger and Burners
Ultra-safe tubular design offers efficient combustion and extreme durability.

7 All-Aluminum Spine Fin™ Coil
Provides enhanced airflow and higher efficiency, while resisting corrosion and leaks better than copper and aluminum coils.

8 Attractive, Contrasting Louvers
Attractive automotive-grade, UV-resistant plastic provides lasting protection.

9 Durable Weather-Beater Top
Contoured and reinforced to shrug off the elements year after year.

10 Appliance-Grade Finish
All-steel cabinet with UV resistant paint means your packaged system stays attractive for years.

Gas / Electric Systems

XL16c: One of Trane's top performers. Up to 16.6 SEER and 81% AFUE.

XL14c: Up to 14.25 SEER and 81% AFUE.

XL13c: Comfortable, reliable and efficient, offering 13 SEER and up to 80% AFUE.

XB13c/XR14c: Smart comfort with up to 14 SEER and up to 81% AFUE.



- Two-Stage Gas Valve
- Variable-Speed Blower Motor With Comfort-R™
- Attractive, Contrasting Louvers
- State-Of-The-Art Fan System
- Composite Vortica™ Blower
- Stainless Steel Heat Exchanger And Burners
- All-Aluminum Spine Fin™ Coil
- Appliance-Grade Finish
- Durable Weather-Beater Top
- Climatuff® Compressor

| | XL16c | XL14c | XL13c | XB13c XR14c |
|---|-------|-------|-------|----------------|
| Two-Stage Gas Valve | • | • | | |
| Variable-Speed Blower Motor With Comfort-R™ | • | • | | |
| Attractive, Contrasting Louvers | • | • | • | |
| State-Of-The-Art Fan System | • | • | • | |
| Composite Vortica™ Blower | • | • | • | |
| Stainless Steel Heat Exchanger And Burners | • | • | • | • |
| All-Aluminum Spine Fin™ Coil | • | • | • | • |
| Appliance-Grade Finish | • | • | • | • |
| Durable Weather-Beater Top | • | • | • | • |
| Climatuff® Compressor | • | • | • | • |
| TWO-STAGE | • | • | • | • |

Read Only

Trane packaged EarthWise™ hybrid systems, reliability you can appreciate.



- 1 Climatuff® Two-Stage Compressor**
Legendary reliability, with two stages of cooling for efficiency and quiet operation.
- 2 Trane Control* (required)**
Lets you switch between electric and gas heat, so you're always using the most efficient method to stay comfortable.
- 3 Four-Stage Heating Capacity**
A two-stage electric heat pump and two-stage gas furnace work together for incredible flexibility, comfort and efficiency (not shown).
- 4 State-Of-The-Art Fan System**
Uses a specially-shaped blade for efficient airflow and the quietest operation on the market of any packaged system.
- 5 Variable-Speed Blower Motor with Comfort-R™**
Distributes air quietly and evenly to eliminate hot and cold spots, while offering precise humidity control.
- 6 Composite Vortica™ Blower**
Uses less energy to produce more airflow and minimal sound.



XL16c
Dual Fuel
Packaged System

Features and components may vary by model and are shown for illustration purposes only.

- 7 All-Aluminum Spine Fin™ Coil**
Resists corrosion and leaks for incredible reliability. The patented design maximizes airflow and heat transfer.
- 8 Stainless Steel Heat Exchanger and Burner**
Safe, reliable and dependable, winter after winter.
- 9 Attractive, Contrasting Louvers**
Attractive automotive-grade, UV-resistant plastic provides lasting protection.
- 10 Durable Weather-Beater Top**
Contoured and reinforced to shrug off the elements.
- 11 Appliance-Grade Finish**
All steel cabinet with UV resistant paint stays attractive and tough while reducing operating noise.

EarthWise™ Hybrid Dual Fuel Systems: comfortable for you and the entire planet.

A Trane dual fuel packaged system warms your home with either an electric heat pump or a gas furnace, based on the weather outside. So you're always using the most efficient method to stay warm, and potentially lowering your heating costs.

EarthWise™ Hybrid Dual Fuel Systems

XL16c: Multiple-stage comfort offering up to 16 SEER and 81% AFUE.

XL14c: Year round comfort and smart energy use, with three-stage heating capacity, up to 14 SEER and 81% AFUE.



| | XL16c | XL14c |
|---|-----------|-------|
| Climatuff® Compressor | TWO-STAGE | • |
| Variable-Speed Blower Motor With Comfort-R™ | • | • |
| Two-Stage Gas Valve | • | • |
| State-Of-The-Art Fan System | • | • |
| Composite Vortica™ Blower | • | • |
| Stainless Steel Heat Exchanger And Burners | • | • |
| All-Aluminum Spine Fin™ Coil | • | • |
| Attractive, Contrasting Louvers | • | • |
| Durable Weather-Beater Top | • | • |
| Appliance-Grade Finish | • | • |

*A Trane XL 950, 850, 824, 803, 802, 624 or XR 402 Control is required with all EarthWise™ Hybrid Systems.

Read Only

Independent Trane dealers value reliability as much as you do.



Your independent Trane dealer knows his or her reputation is made at every sale, and with every installation. Therefore, they are as personally invested in your comfort as you are, and take great pride in creating your perfect indoor environment.

Trane dealers are some of the most highly trained in the business, with advanced technical skills to optimize every installation and solve any issue.

They have an extensive understanding of the movement and conditioning of air, and the expertise to create a perfectly balanced, ultra-efficient system for every home.

Trane dealers believe in doing the job right, every time. Otherwise, they wouldn't be Trane dealers.

Take comfort in our warranties.

Trane believes in your peace of mind as much as we believe in your comfort. So every Trane package system is backed by a robust, straightforward warranty. Please consult your dealer for additional details on all coverage options.

| | XL16c | XL14c XR14c | XL13c | XB13c | XR14h |
|---|-------|----------------|-------|-------|-------|
| Limited Warranty on Heat Exchanger† with registration* | 20 yr | 20 yr | 20 yr | 10 yr | |
| Limited Warranty on Compressor with registration* | 12 yr | 10 yr | 10 yr | 10 yr | 10 yr |
| Limited Warranty on Outdoor Coil with registration* | 10 yr | 10 yr | 10 yr | 10 yr | 10 yr |
| Limited Warranty on Functional Parts with registration* | 10 yr | 10 yr | 10 yr | 10 yr | 10 yr |

† Heat exchanger warranty applies to dual fuel and gas/electric packaged systems only.

*Registered Limited Warranty terms are available when you register within 60 days of installation. You can register online at Trane.com or by phone at 800-554-6413, otherwise Trane's Base Limited Warranty terms will apply. Base Limited Warranty information on specific products can be found on Trane.com. Ask your dealer for full warranty information at time of purchase. Warranties are for residential and multi-family use only, some exclusions may apply.



Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a \$13 billion global business committed to a world of sustainable progress and enduring results.



ingersollrand.com

trane.com

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It's Hard To Stop A Trane.®

Air Conditioners



PRODUCT LIT 3

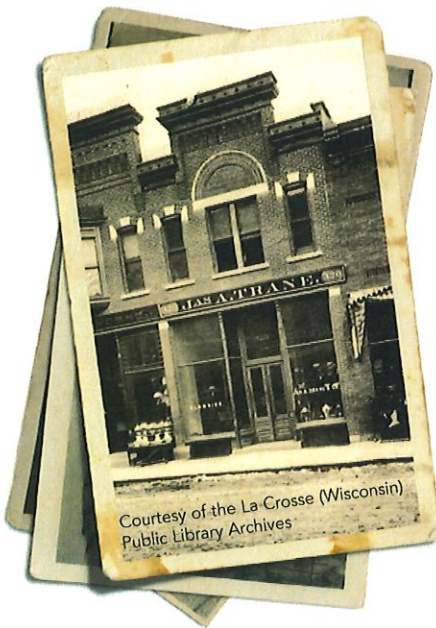




It's Hard To Stop A Trane.®

The most reliable and longest lasting in the industry.*

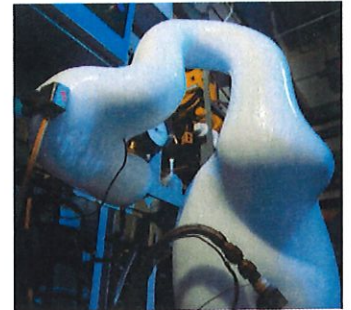
Extreme is not even close to our approach to product testing. Cruel and unusual may be a better way to describe what a Trane endures to wear the badge. We push our products to the limit and beyond, so you can rest easy knowing there's a Trane working hard day in day out to make your family comfortable — for a long, long time.



Trane Storefront
La Crosse, Wisconsin
1891

It started over a hundred years ago, when Reuben and James Trane made the decision to stand out from the crowd. To build a comfort system like no other, using uncompromising quality, innovation and reliability. Today, their legacy is found in everything Trane makes, from our premium materials to our industry-leading technology to our extensive product testing under the harshest conditions. When you buy a Trane, you're buying a commitment from us, to you. A commitment to your total comfort, and your total peace of mind. Because that's what Reuben and James would have done.

Ice buildup on refrigerant lines of a compressor reflects the stress of our extreme testing. "Snowball II" has been in a constant state of overcharge since 2003, sort of like running a car 70 miles an hour around the clock to see how long it will last. Once this test is complete, we'll take it apart and see how we can make it better. It might take awhile though; the first Snowball survived under these same conditions for 28 years.




We're not the only ones talking about Trane reliability.

- ✓ In 2016, Lifestory Research found that consumers recognized Trane as America's Most Trusted™ HVAC System for the second year in a row.**
- ✓ Winner of the Dealer Design Award presented by Air Conditioning, Heating & Refrigeration NEWS, the industry's leading trade publication, for the fifth year in a row.
- ✓ Winner of the David Weekley Homes' prestigious Partners of Choice Award for Service and Product Performance.

* Independent 2012 HVAC Claim Study, Funded by Ingersoll Rand

** Trane received the highest numerical score in the United States in the proprietary Lifestory Research 2016 America's Most Trusted™ Heating, Ventilation, & Air Conditioning (HVAC) System study. Study based on 17,878 surveys among residential consumers. Proprietary study results are based on experiences and perceptions of consumers surveyed between January and December 2015. For details see www.lifestoryresearch.com.



WE
FREEZE,
BROIL,
STRESS,
DROP,
SHOCK,
EXPOSE,
LISTEN,
AND
TAKE 'EM
HOME
WITH US.

The Systems Extreme Environmental Test Lab is just one of many tests our outdoor products are put to. It's where we pack a lifetime of mother nature's fury into 16 weeks of torture that would stand up to the harshest environment this planet has to offer. Then we test them where it really matters: in our homes. Just one of the many reasons why *It's Hard To Stop A Trane.*



TRANE[®]

It's Hard To Stop A Trane.[®]

More stages mean more comfort and efficiency.

Staging refers to an air conditioner's ability to run at less than its maximum capacity in order to increase comfort levels and boost efficiency. For example, two-stage systems offer better comfort and higher efficiency (SEER ratings) than single-stage systems, while Trane's TruComfort™ variable speed system, with 700 stages, offers maximum comfort with the highest efficiency.

700 STAGES OF COMFORT – VARIABLE SPEED

XV20i Best in Category UP TO 22 SEER

XV18 UP TO 18 SEER

MAINTAINS +/- .5°

2 STAGES OF COMFORT

XL18i Best in Category UP TO 18 SEER

XR17 UP TO 18 SEER

MAINTAINS +/- 1.0°

1 STAGE OF COMFORT

XL16i Best in Category UP TO 17 SEER

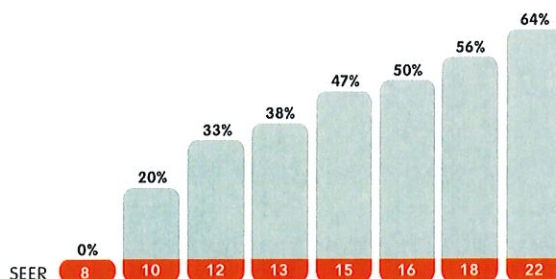
XR13-16 UP TO 13-17 SEER

SIDE DISCHARGE XR16 Best for space constrained applications UP TO 17 SEER

MAINTAINS +/- 1.5°

What does 700 stages of comfort really mean?
 Sometimes you just feel "too hot" or "too cold" between cycles of your system. Having 700 stages nearly eliminates temperature fluctuations. Your system glides along as if on cruise control, barely sipping electricity for much of the day. It also runs at lower speeds for longer periods of time offering:

- Advanced temperature control
- Lower humidity
- Reduced sound
- Enhanced filtration
- Lowest cost per minute



Annual savings for cooling your home based on the efficiency of a matched system.*

Like miles per gallon in a car, the higher the system SEER rating, the more comfort you will get from each energy dollar.

* The majority of systems installed prior to 2006 are 10 SEER or lower. Potential energy savings may vary depending on your personal lifestyle, system settings and usage, equipment maintenance, local climate, actual construction and installation of equipment and duct system.

A CLOSER LOOK INSIDE A TRANE AIR CONDITIONER.

WeatherGuard™ II Top is not only attractive, the durable polycarbonate material provides lasting protection.

Exclusive Refrigerant Cooled Inverter keeps electronics at a consistent temperature leading to improved performance and reliability.

Climatuff® Variable Speed Compressor is the heart of Trane TruComfort™ technology. It automatically adjusts itself while maintaining constant and consistent comfort.

Compressor Sound Insulators reduce operating sound for a quieter home environment.



Integrated Fan System with its unique blade-down design improves airflow, enhances performance and reduces sound levels.

Exclusive All-Aluminum Spine Fin™ Woven Coil enhances airflow and heat transfer while resisting corrosion and leaks. They are proven far more reliable than traditional copper and aluminum coils.

ComfortLink™ II Communicating Control Board powers the compressor and controls communication between components to optimize your comfort and efficiency.

Simplified Two-Wire Connection allows for easier installation while reducing the need for structural modifications.

DuraTuff™ Rustproof Basepan won't crack, corrode, rust or warp.

Full-Sided Galvanized Steel Louvered Panels protect internal components while preserving airflow efficiency.

Powder-Paint Finish is virtually indestructible for maximum protection against corrosion and rust, and years of reliable protection.

WeatherGuard™ Zinc-Coated Fasteners for corrosion resistance and longer life because even minor details are what Trane reliability is all about.

The XV20i shown is for illustration purposes only. Please note that features and components may vary by model. As part of our continuous product improvement, Trane reserves the right to change specifications and design without notice.

A Trane For Every Home

| | XV20i | XV18 | XL18i | XL16i | XR17 | XR16 | XR14 | XR13 | XR16 Side Discharge |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|---------|---------|------------------------|
| ComfortLink™ II Capability | • | • | | | | | | | |
| Climatuff® Compressor (stages) | 700 | 700 | 2 | 1 | 2 | 1 | 1 | 1 | 1 |
| Capacity Variability % | 30 - 100* | 30 - 100* | 70/100 | 100 | 70/100 | 100 | 100 | 100 | 100 |
| Compressor Sound Insulator | • | • | | | | | | | |
| Overall Sound Power Level [dB(A)] | 57 - 75 | 57 - 75 | 72 - 74 | 69 - 74 | 72 - 74 | 71 - 74 | 72 - 73 | 71 - 75 | 70 - 73 |
| Spine Fin™ Coil | • | • | • | • | • | • | • | • | Plate fin |
| High SEER Efficiency (up to) | 22.00 | 18.00 | 18.00 | 17.00 | 18.00 | 17.00 | 16.00 | 14.75 | 17.00 |

All Trane air conditioners have a 10 year registered limited warranty on the outdoor coil and all other internal functional parts (residential use). The XR units have a 10 year registered limited warranty on the compressor, while the XV and XL units have a 12 year registered limited warranty on the compressor.

Registered Limited Warranty terms are available when you register within 60 days of installation. You can register online at Trane.com or by phone at 800-554-6413, otherwise Trane's Base Limited Warranty terms will apply. Base Limited Warranty information on specific products can be found on Trane.com. Ask your dealer for full warranty information at time of purchase. Warranties are for residential and multi-family use only, some exclusions may apply.

*XV20i/XV18 vary speed in 1/10 of 1% increments.

Why a Trane matched system?

Reliability, efficiency and comfort are serious business at Trane. The best way to maximize all three of these is with a complete Trane system. For example, the performance and efficiency of an outdoor air conditioning unit is based on being matched with a similarly engineered indoor unit of like size and capacity. If only the outdoor unit is replaced and must utilize an existing indoor coil and air handler or furnace, it could actually suffer more than a 20% decline in SEER and compromise reliability and comfort.

Exclusive Spine Fin™ Coil technology comes standard in every Trane outdoor product. No other heat exchanger has been able to beat its efficiency.



Conventional exposed plate fin stands little chance in harsh environments.



Trane's Industry-First All Aluminum Comfort™ Coils are revolutionary in an industry tied to copper, which means longer life and industry leading resistance to corrosion.



Traditional copper and galvanized steel coils are highly susceptible to corrosion.

Exclusive Trane Nexia-Enabled Controls help manage your home comfort from wherever you happen to be. They can also easily control over 400 compatible Z-Wave devices like door locks, lighting, garage door openers and window sensors.



Don't forget trusted Trane air quality options.



Air Cleaners: the Trane CleanEffects™ whole house air cleaner is the ultimate in air filtration, up to 100 times more effective than a standard 1 inch throwaway filter.



FreshEffects™ Energy Recovery Ventilator is an energy-efficient way to exchange air inside your home with fresh air from outside, removing lingering odors like cooking smells while improving overall air quality.



Trane's Humidifiers can adjust from summer to winter to provide the right amount of moisture to the air throughout your home.

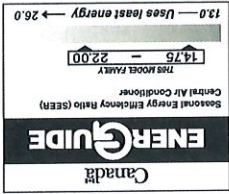


They're as hard to stop as a Trane itself.

Independent Trane dealers are as personally invested in your comfort as you are, and take great pride in creating your perfect indoor environment. They are some of the most highly trained in the business and have an extensive understanding of the movement and conditioning of air and the expertise to advise, install and maintain the right system for your home.



Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a \$13 billion global business committed to a world of sustainable progress and enduring results.



Kinane, Collette

From: Kinane, Collette
Sent: Wednesday, October 17, 2018 3:42 PM
To: 'caitlin@angeloakcreative.com'
Subject: minor work COA - 702 N Blount Street

Hi, Caitlin –

I apologize that it's taken so long to get back to you about your minor work application. We've been swamped. Thanks for sending in such a complete application. We did have one question related to installation and one change request. Would it be possible for you to send a quick sketch of the wedge/hanger system that you've mentioned for installing the gutters – with details about how it will be installed on parts with a decorative fascia? The installation of river rock or flat stones around the exterior foundation walls would be incongruous, would you be amenable to gravel? Chapel Hill Grit is the type of gravel we approve most often.

Thanks,
Collette

Collette R. Kinane
Preservation Planner II

■ **Raleigh Urban Design Center**
One Exchange Plaza, Suite 300 | Raleigh, NC 27601
919-996-2649 | raleighnc.gov

Kinane, Collette

From: Clinard, Keith <Keith.Clinard@wbd-us.com>
Sent: Friday, October 19, 2018 1:48 PM
To: Kinane, Collette
Cc: 'Caitlin Clinard'
Subject: RE: minor work COA - 702 N Blount Street
Attachments: Gutter hanger and wedge pictures; Pictures; Gutter on angled fascia board.pdf

Collette –

I am Caitlin's dad, and a member of the LLC that owns 702 North Blount Street. This addresses the requests in your email to Caitlin below.

Attached is a sketch showing the components of gutters, hangers, and wedges installed on an angled fascia. This concept also applies to a decorative fascia, except for the additional complication of correctly integrating the wedge with the profile of the fascia, which will need to be done by the installer at the time of installation.

Also attached are two emails from Wes Wissinger at Roofwerks (who will be installing the gutters), addressing separate options for the gutter hangers and wedges. We are planning to try each option during installation and decide at that time which works best with the existing fascia profile. Either would appear to work, and both are appropriate.

- The first option shown in the attached email of October 19 (entitled "Gutter hanger and wedge pictures") is actually installed on a house in the Blount Street District, on Pace Street across the street and two houses away from 702 North Blount Street. This option consists of a "T" shaped piece of aluminum that fits behind the gutter and extends against the angled decorative fascia at an appropriate profile location to provide stability and leveling for the gutter. Two of the photos included with this attached email are from the actual installation on Pace Street. This will be our default option.
- The second option shown in the attached email of September 22 (entitled "Pictures") is a more substantial piece of aluminum, that would appear to provide more stability, and appears more "attractive" to us. However, the individual wedges would need to be cut to fit the fascia profile during installation, which may prove to be too labor intensive.

As to landscaping rocks, Chapel Hill grit does not provide the functionality we need for essentially a "splash block" to break kinetic energy from water cascading 30 feet off the roof (as secondary protection in the event gutters are overwhelmed or otherwise fail to manage storm waters). Our landscaper initially proposed #57 gravel, but actually we were hoping for a more attractive and aesthetically enhancing option to parking lot gravel (and frankly to Chapel Hill Grit) – even though the areas involved are on the side yard and barely visible from public areas, if at all.

We do not want landscaping rock to delay our application, and at this time will withdraw rock from our application. We need to get gutters installed and water directed away from our foundation asap. Water cascading off the roof and eventually through the foundation and into the crawlspace, apparently for years, has taken its toll, and is now requiring significant remediation in the crawlspace. Multiple engineers and contractors have told us that gutters need to be installed asap. Unfortunately, it's been easier said than done with the decorative angled fascia.

Thanks.

Keith Clinard
336-345-2000

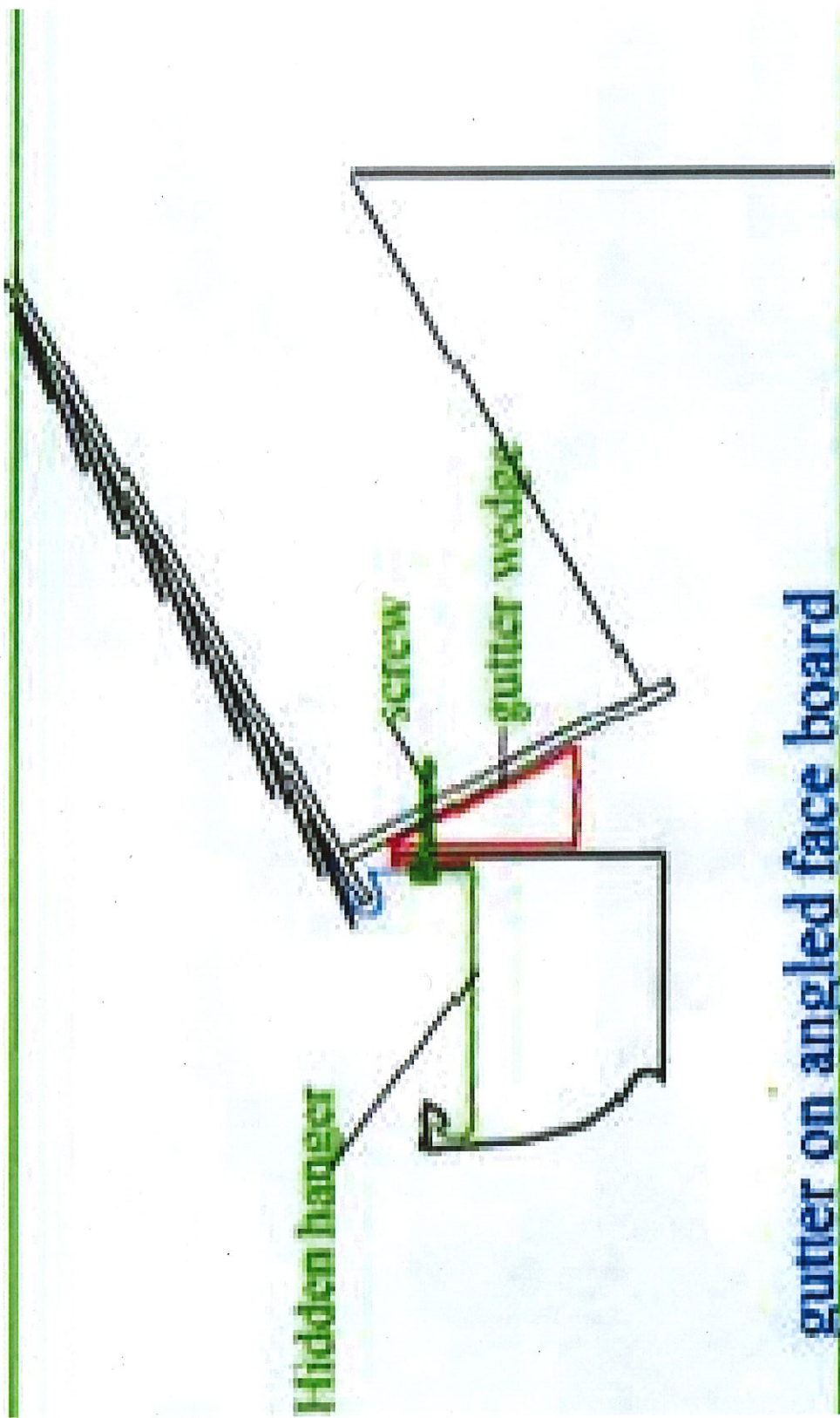
Kinane, Collette

From: wesw@roofwerks.com
Sent: Saturday, September 22, 2018 7:19 AM
To: Clinard, Keith
Subject: Pictures
Attachments: images.jpg; download.jpg; installed wedge.jpg

EXTERNAL EMAIL: Open Attachments and Links With Caution.

Mr. Clinard,
Here are a few pictures of the gutter hangers and wedges we will use to install the gutter on the slanted fascia. Sorry for the delay I ended up in New Bern yesterday / last night looking at the Federal Courthouse. Its's a mess! I hope these will help with getting things submitted.
Thank you.
Wes

William "Wes" Wissinger
ROOFWERKS
5413 Hillsborough St
Raleigh NC 27606
O:919-852-2660
C:919-394-3331
F:919-852-2661



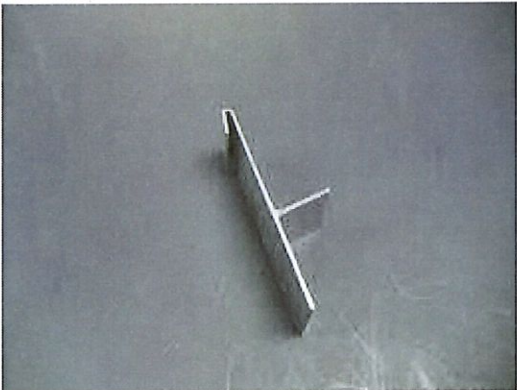
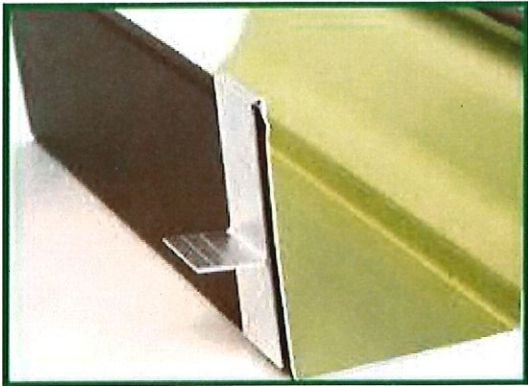
Hidden hanger

screw

gutter wedge

gutter on angled face board

Wedge Option



Hidden Hanger

