

HDC

ADMINISTRATIVE APPROVALS

September 02, 2020

1. **284 New Castle Avenue (LUHD-187) -Recommended Approval**
2. **65 Rogers Street (LUHD-188) -Recommended Approval**

1. 284 New Castle Avenue - Recommended Approval

Background: The applicant is seeking approval for a change to a previously approved design (use Hardie siding on the garage where Lifespan clapboards were approved).

Staff Comment: Recommended Approval

Stipulations:

1. _____
2. _____
3. _____

8/31/2020

**Historic District Commission Work
Session or Administrative Approval
Application**

LUHD-187

Status: Active

Submitted: Aug 17, 2020

Applicant



Michael Millikan

6092739388

michael.millikan@icloud.com

Location

284 NEW CASTLE AVE
Portsmouth, NH 03801

Application Type

Please select application type from the drop down menu below

Administrative Approval

Project Information

Brief Description of Proposed Work

We are requesting a change to an approval originally granted by the HDC for construction of a detached 2 car garage. As lumber prices have recently increased significantly, we would like to substitute Hardie fiber cement clapboards for the previously approved Lifespan clapboards on the garage only. This will provide significant savings that will help to offset the increased cost of the other materials. The Semprini house, immediately to the East, was constructed in the last 5 years, is a similar design and is sided with Hardie board clapboards.

Description of Proposed Work (Planning Staff)

--

Project Representatives

Full Name (First and Last)

Anne Whitney

Relationship to Project

Architect

Business Name (if applicable)

--

Mailing Address (Street)

9 Sheafe St

Email Address

archwhit@aol.com

State

NH

If you selected "Other", please state relationship to project.

--

Phone

6034272832

Zip Code

03801

City/Town

Portsmouth

Business Name (if applicable)

Terrevecchia Building & Restoration

Email Address

Joe.tbr.inc@gmail.com

Phone

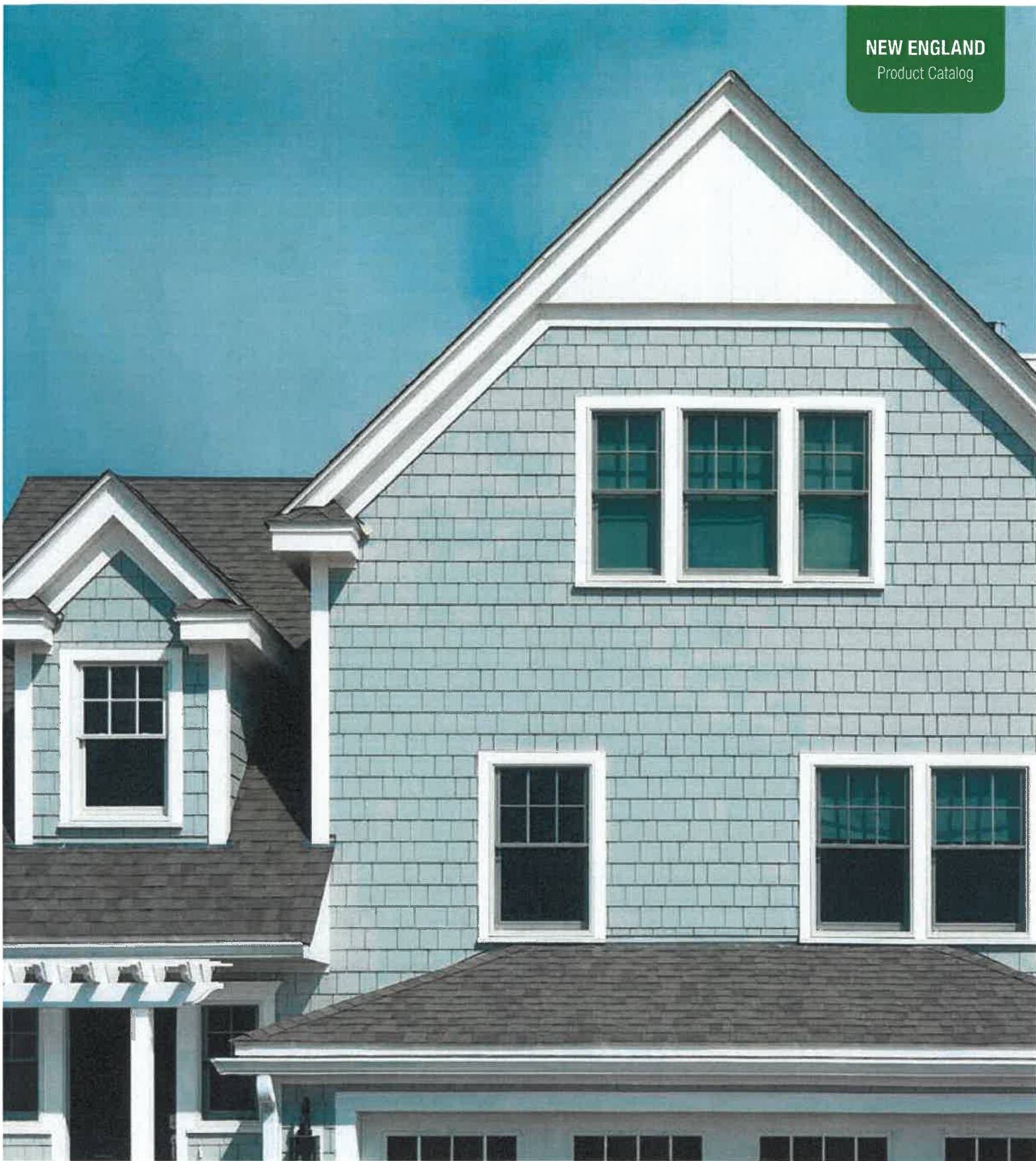
6034270039

If you selected "Other", please state relationship to project.

Builder

City/Town

Relationship to Project



Discover a whole new
SIDE OF HOME.

 **JamesHardie™**
Siding | Trim



Installed on over 8 million homes* from coast to coast, James Hardie[®] fiber cement siding products are designed to resist the most extreme conditions while delivering long term beauty and lower maintenance. Enjoy the warm, natural look of wood with unprecedented peace of mind. It's easy to see what makes James Hardie the market leader.

UNIQUE FORMULATION

We use the highest quality raw materials and proprietary additives for enhanced strength and moisture protection.

FINISHING TECHNOLOGY

Baked-on color delivers a beautiful finish that resists fading and makes a lasting impression.

COMPLETE EXTERIOR

Offers homeowners an unrivaled collection of design options with exceptional warranties through a single, trusted manufacturer.

*Estimate based on total James Hardie siding sales through 2016 and average housing unit size.

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HardieZone[®] System

Only James Hardie[®] fiber cement products are Engineered for Climate[®]. In the northern U.S. and Canada, HZ5[®] products resist shrinking, swelling and cracking even after years of wet or freezing conditions. HZ10[®] products help protect homes from hot, humid conditions, blistering sun and more.

With James Hardie[®] siding and trim, homeowners have an exterior that's tougher than the elements and easy on the eyes.

NO MATTER WHAT NATURE BRINGS





HardieTrim®
Boards
Timber Bark

HardiePlank®
Lap Siding
Khaki Brown

TOUGHER THAN THE ELEMENTS



Stands up to storms and harsh weather



Water resistant to protect against swelling, warping and cracking



Won't be eaten by animals or insects



Fire resistant



Helps reduce time and money spent on maintenance

Resist the elements
WITH IRRESISTIBLE BEAUTY.

Unique Formulation

HZ5® Substrate

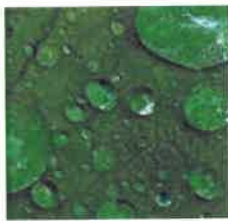
Not all fiber cement is the same. The James Hardie HZ5 product formulation contains the highest quality raw materials. Proprietary additives, combined with an innovative manufacturing process and product design, create a substrate specifically engineered to reduce moisture and resist damage from wet or freezing conditions.

PROPRIETARY ENHANCEMENTS CREATE DURABLE JAMES HARDIE® SIDING



Perfect balance of strength and workability

Our balance of high-quality Portland cement, sand and cellulose fiber delivers the best combination of strength and workability.



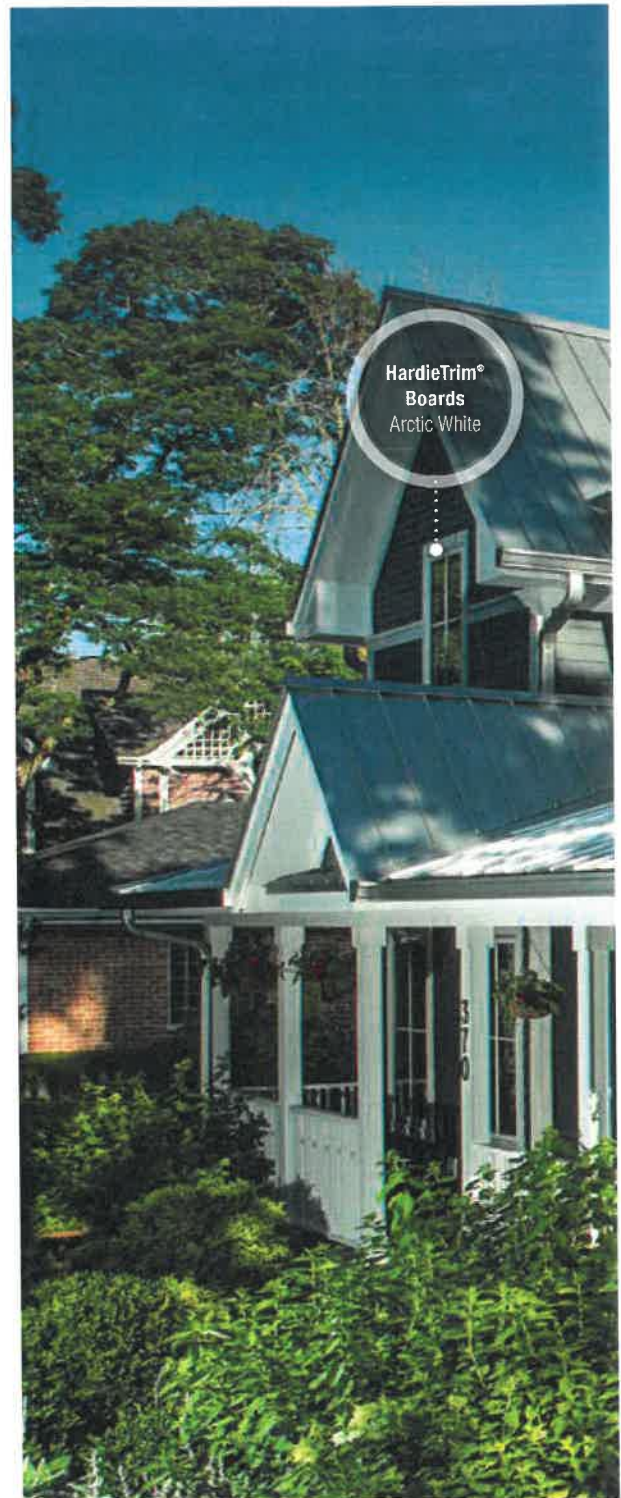
Enhanced moisture resistance for unmatched durability

Patented and proprietary additives are chemically bonded within the HZ5® substrate matrix to provide durable moisture resistance.



Increased dimensional stability

Our siding is engineered at the microscopic level to create a fiber cement composite with superior dimensional stability that helps protect against shrinking and splitting.



MADE IN THE
USA



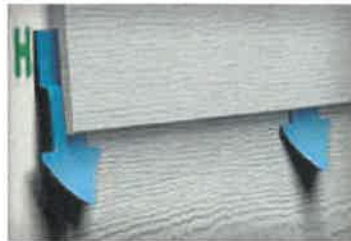
Integrity is ingrained
IN EVERYTHING WE DO.

HardiePlank®
Lap Siding
Evening Blue

HZ5®

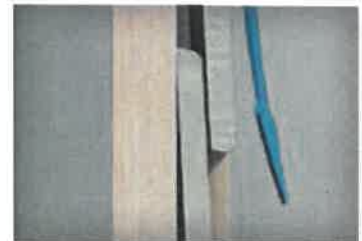
The advanced design of HZ5® lap siding improves drainage from top to bottom.

In addition to the enhanced moisture resistance of our product formulation, HardiePlank® HZ5® lap siding features a modified profile with a sloped top and bullnose drip edge for improved drainage over the entire outer face of the board.



Sloped Top

Positive slope at top drains moisture to outer face of lap



Profiled Drip Edge

Bottom bullnose drip edge allows moisture to drain away from lap

Finishing Technology

Primer

A quality primer is the first step to ensuring that the paint color you select beautifully expresses a home's true character now – and for years to come. Our distinctive primer is climate-tested and engineered to enhance the performance of paint on James Hardie® fiber cement siding products. It helps to provide consistent, long-lasting paint adhesion, even in the most demanding conditions.

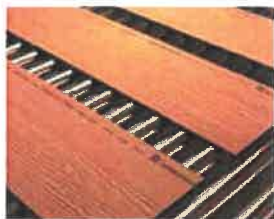
ColorPlus® Technology

Our advanced ColorPlus® Technology finishes deliver the ultimate in aesthetics and performance. Our products aren't simply painted at the factory. Our proprietary coatings are baked onto the board, creating a vibrant, consistent finish that performs better, lasts longer and looks brighter on your homes.



Exceptional finish adhesion

Our proprietary coating is engineered for exceptional adhesion to our substrate and applied to the surface, edges and features for durable performance.



Superior color retention

Finish is cured onto boards for a stronger bond, which allows for exceptional resistance to cracking, peeling and chipping.



Superior UV resistance

ColorPlus® Technology finishes retain vibrancy longer when compared to vinyl siding and typical field paints on other siding products.



ColorPlus[™]
Technology



Lasting beauty
BEGINS WITH THE FINISH.

Our finishes help eliminate stress and reduce costly weather delays when it's too cold or damp to paint for extended periods. Now there's no reason to question whether or not sub-optimal painting conditions will negatively affect your paint job. In fact, there's no longer any need to paint on-site during installation.

ColorPlus® Technology finishes are fully cured in a controlled environment and arrive on your job site ready for year-round installation.





ColorPlus®
Technology
Pearl Gray

ColorPlus®
Technology
Iron Gray

For complete confidence wrap your
ENTIRE EXTERIOR WITH JAMES HARDIE.

James Hardie Complete Exterior™

Top to bottom, our exterior product line is defined by excellent performance, aesthetics and design options.

Provide protection from the elements, showcase a homeowner's individual style and install peace of mind with exceptional warranties through a single, trusted manufacturer.



HardieShingle[®]
Siding



HardiePanel[®] Vertical
Siding & HardieTrim[®]
Batten Boards



HardiePlank[®]
Lap Siding



HardieTrim[®]
Boards



HardieSoffit[®]
Panels

HardiePlank

Thickness 5/16 in
Length 12 ft planks

SELECT CEDARMILL® & SMOOTH

	Width	5.25 in	6.25 in	7.25 in	8.25 in
Exposure	4 in		5 in	6 in	7 in
Prime Pcs/Pallet		360	308	252	230
ColorPlus Pcs/Pallet		324	280	252	210
Pcs/Sq		25.0	20.0	16.7	14.3

SELECT CEDARMILL®



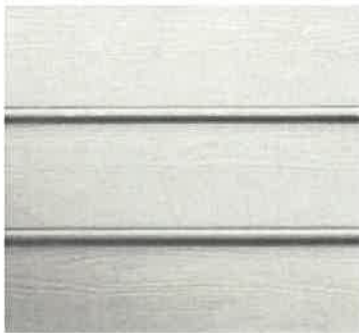
	Width	5.25 in	6.25 in	7.25 in	8.25 in
STATEMENT COLLECTION™	✓	✓			
DREAM COLLECTION™	✓	✓	✓	✓	
PRIME	✓	✓	✓	✓	

SMOOTH



	Width	5.25 in	6.25 in	7.25 in	8.25 in
STATEMENT COLLECTION™	✓	✓			
DREAM COLLECTION™	✓	✓	✓	✓	
PRIME	✓	✓	✓	✓	

BEADED CEDARMILL®



BEADED CEDARMILL® & BEADED SMOOTH

Width	8.25 in
Exposure	7 in
Prime Pcs/Pallet	240
ColorPlus Pcs/Pallet	210
Pcs/Sq	14.3
STATEMENT COLLECTION™	
DREAM COLLECTION™	✓
PRIME	✓

BEADED SMOOTH



HardiePanel®

Thickness 5/16 in

SELECT CEDARMILL®, SMOOTH, STUCCO & SIERRA 8

	Size 4 ft x 8 ft	4 ft x 10 ft
Prime Pcs/Pallet	50	50
ColorPlus Pcs/Pallet	50	50
Pcs/Sq	3.2	2.5

SELECT CEDARMILL®



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		✓
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

SMOOTH



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		✓
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

STUCCO



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

SIERRA 8



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		
DREAM COLLECTION™		
PRIME	✓	✓

HardieShingle®

Thickness 1/4 in



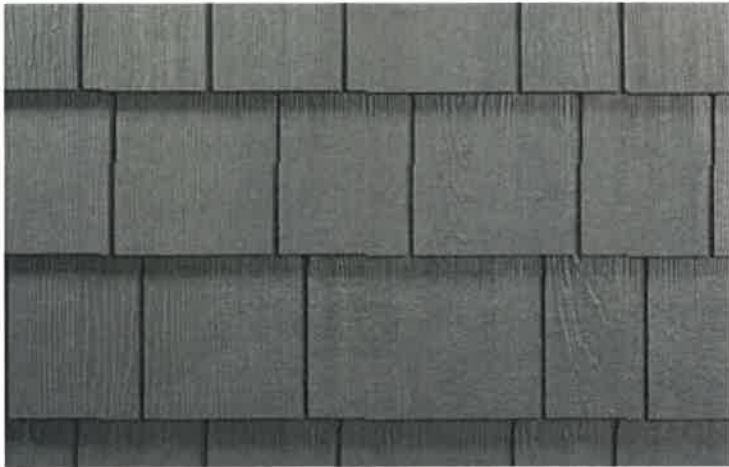
STAGGERED EDGE PANEL

Length	48 in
Height	15.25 in
Exposure	6 in
ColorPlus Pcs/Pallet	100
Sq/Pallet	2
Pcs/Sq	50.0

STATEMENT
COLLECTION™

DREAM
COLLECTION™ ✓

PRIME



STRAIGHT EDGE PANEL

Length	48 in	48 in
Height	14 in	15.25 in
Exposure	5 in	7 in
ColorPlus Pcs/Pallet	120	86
Sq/Pallet	2	2
Pcs/Sq	60.0	43.0

STATEMENT
COLLECTION™ ✓

DREAM
COLLECTION™ ✓

PRIME



HALF ROUNDS

Length	48 in
Height	15.25 in
Exposure	7 in
Prime Pcs/Pallet	86
Sq/Pallet	2
Pcs/Sq	43.0

STATEMENT
COLLECTION™

DREAM
COLLECTION™

PRIME ✓

HardieTrim®

Length 12 ft boards

NT3® BOARDS SMOOTH



4/4 SMOOTH

Thickness	.75 in				
Width	3.5 in	5.5 in	7.25 in	9.25 in	11.25 in
ColorPlus Pcs/Pallet	312	208	156	104	104

STATEMENT COLLECTION™	✓	✓	✓		✓
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DREAM COLLECTION™	✓	✓	✓	✓	✓
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PRIME

5/4 SMOOTH

Thickness	1 in					
Width	3.5 in	4.5 in	5.5 in	7.25 in	9.25 in	11.25 in
ColorPlus Pcs/Pallet	240	200	160	120	80	80

STATEMENT COLLECTION™	✓	✓	✓	✓		✓
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DREAM COLLECTION™	✓	✓	✓	✓	✓	✓
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PRIME

BATTEN BOARDS

SMOOTH



RUSTIC GRAIN®



SMOOTH & RUSTIC GRAIN®

Thickness	.75 in
Width	2.5 in
Prime Pcs/Pallet	190
ColorPlus Pcs/Pallet	437

STATEMENT COLLECTION™ ✓

DREAM COLLECTION™ ✓

PRIME ✓

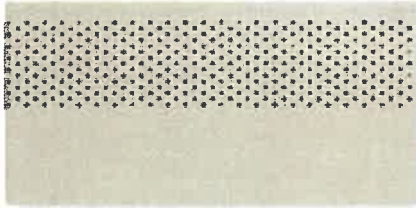
HardieSoffit®

Thickness 1/4 in

VENTED SMOOTH & SELECT CEDARMILL®

Length	12 ft	12 ft	8 ft
Width	12 in	16 in	24 in
Prime Pcs/Pallet	200	150	100
ColorPlus Pcs/Pallet	216	156	108

VENTED SMOOTH



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in
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STATEMENT COLLECTION™

DREAM COLLECTION™

PRIME

✓	✓	✓
✓	✓	✓

VENTED SELECT CEDARMILL®



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in
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STATEMENT COLLECTION™

DREAM COLLECTION™

PRIME

✓	✓	✓

NON-VENTED SMOOTH & SELECT CEDARMILL®

Length	12 ft	12 ft	8 ft	8 ft
Width	12 in	16 in	24 in	48 in
Prime Pcs/Pallet	200	150	100	50
ColorPlus Pcs/Pallet	216	156	108	—

NON-VENTED SMOOTH



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in	8 ft x 48 in
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STATEMENT COLLECTION™

DREAM COLLECTION™

PRIME

✓	✓	✓	
✓	✓	✓	✓

NON-VENTED SELECT CEDARMILL®



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in	8 ft x 48 in
------	---------------	---------------	--------------	--------------

STATEMENT COLLECTION™

DREAM COLLECTION™

PRIME

✓	✓	✓	

BEADED PORCH PANEL



BEADED PORCH PANEL

Thickness	1/4 in
Length	8 ft
Width	48 in
ColorPlus Pcs/Pallet	50

STATEMENT COLLECTION™

DREAM COLLECTION™

PRIME



STATEMENT COLLECTION™

Make your next home stand out with our Statement Collection™ products. Carefully curated by our design experts specifically for your market, the collection brings together the most popular James Hardie ColorPlus® siding and trim styles, textures, and colors. This stunning selection is locally stocked and designed for simplicity - making it easier than ever to get a beautiful, long-lasting home exterior.

ColorPlus® Technology

Plank, Panel, Shingle and Batten Color Offering



Trim Color Offering



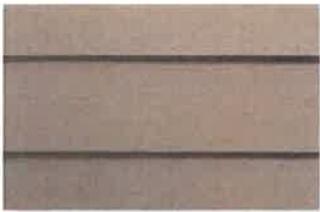
Colors shown are as accurate as printing methods will permit. Please see actual product sample for true color.

HardiePlank®



SELECT CEDARMILL®

Width 5.25 in 6.25 in
Exposure 4 in 5 in



SMOOTH

Width 5.25 in 6.25 in
Exposure 4 in 5 in

HardiePanel®



SELECT CEDARMILL®

Size 4 ft x 10 ft



SMOOTH

Size 4 ft x 10 ft

HardieShingle®



STRAIGHT EDGE PANEL

Height 14 in 15.25 in
Exposure 5 in 7 in

HardieTrim®

4/4 SMOOTH



Thickness .75 in
Length 12 ft boards
Width 3.5 in 5.5 in 7.25 in 11.25 in

5/4 SMOOTH



Thickness 1 in
Length 12 ft boards
Width 3.5 in 4.5 in 5.5 in 7.25 in 11.25 in

BATTEN BOARDS

4/4 SMOOTH & RUSTIC GRAIN®



.75 in
2.5 in



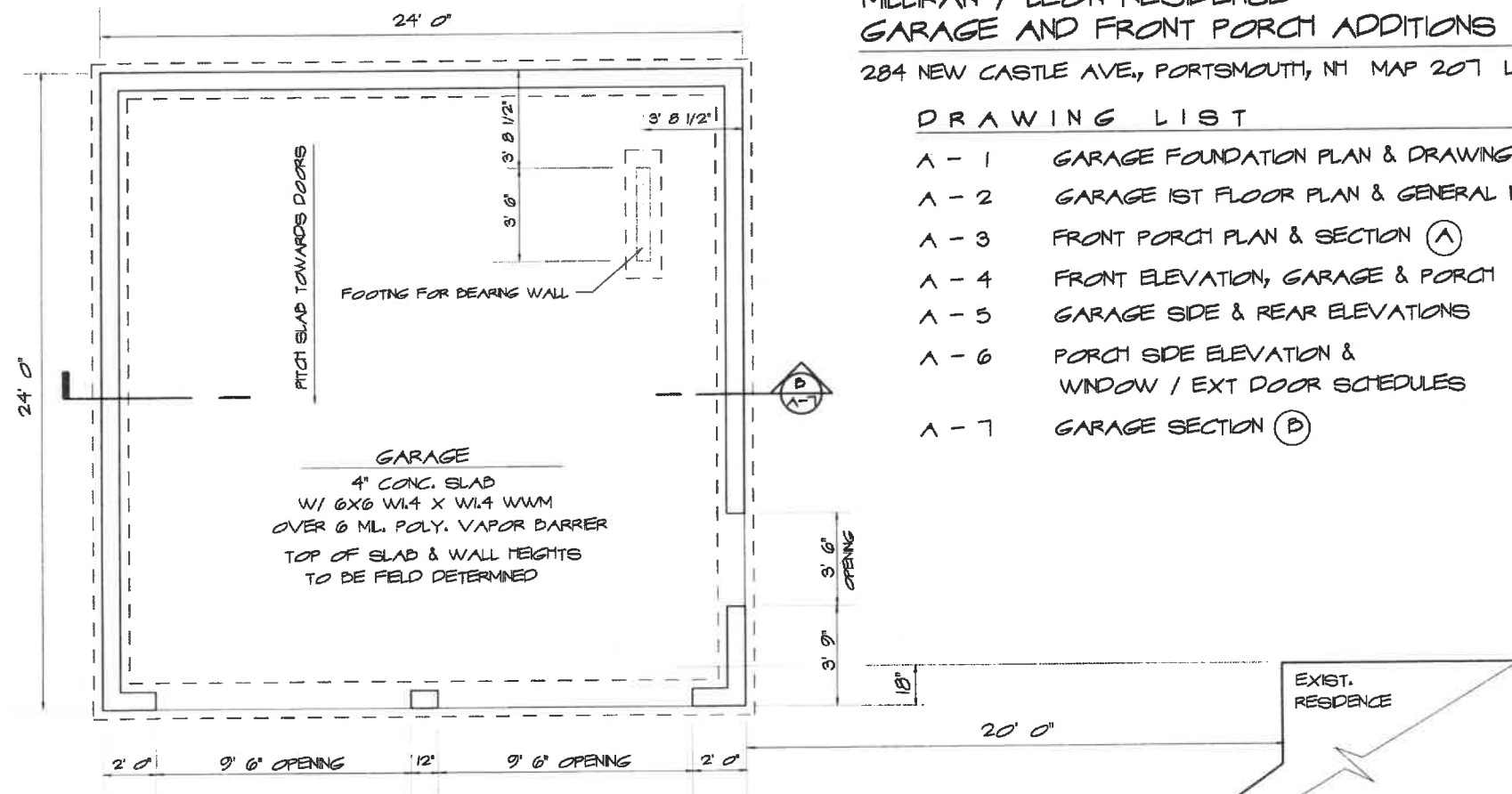
Selecting a color? Request a product sample at jameshardiepros.com/samples

MILLIKAN / LEON RESIDENCE
 GARAGE AND FRONT PORCH ADDITIONS

284 NEW CASTLE AVE., PORTSMOUTH, NH MAP 207 LOT 73

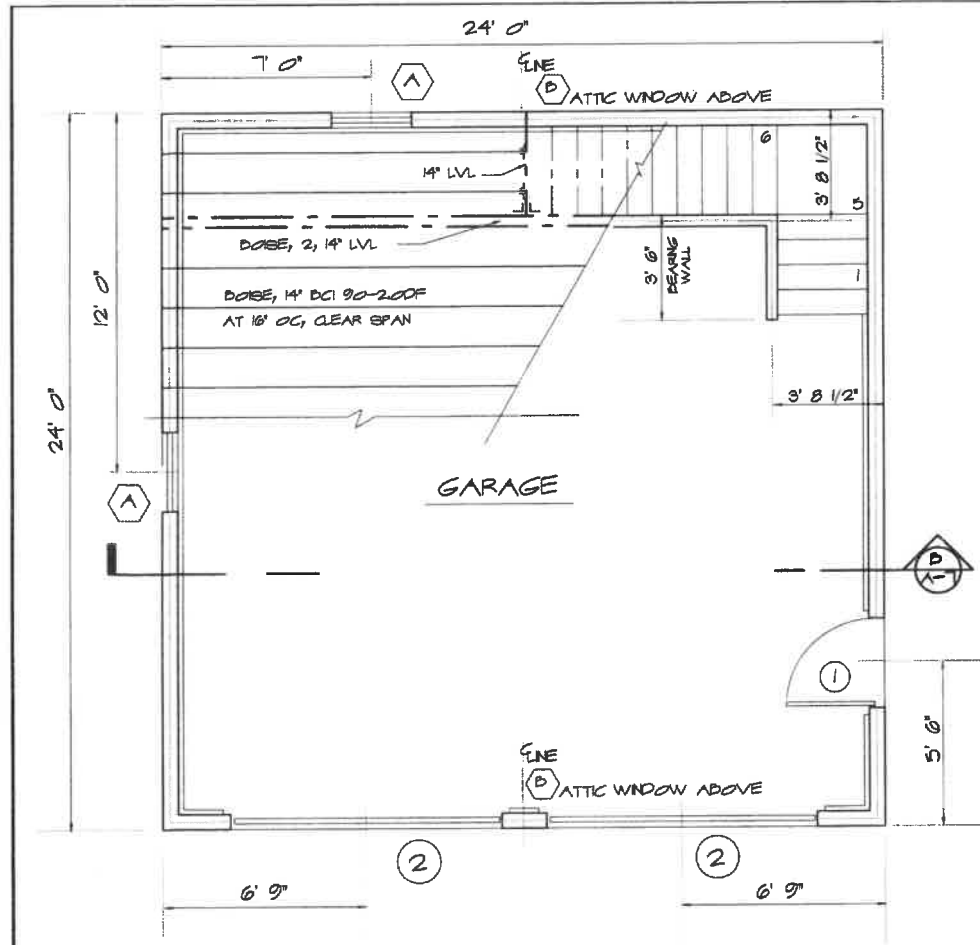
DRAWING LIST

- A - 1 GARAGE FOUNDATION PLAN & DRAWING LIST
- A - 2 GARAGE 1ST FLOOR PLAN & GENERAL NOTES
- A - 3 FRONT PORCH PLAN & SECTION (A)
- A - 4 FRONT ELEVATION, GARAGE & PORCH
- A - 5 GARAGE SIDE & REAR ELEVATIONS
- A - 6 PORCH SIDE ELEVATION & WINDOW / EXT DOOR SCHEDULES
- A - 7 GARAGE SECTION (B)



DETACHED GARAGE FOUNDATION PLAN
 SCALE: 1/4" = 1'-0"

GARAGE FOUNDATION & DRAWING LIST PORCH AND GARAGE ADDITIONS, MILLIKAN RESIDENCE 284 NEW CASTLE AVE. PORTSMOUTH, NH	9 Shedd Street Portsmouth NH 03801 603-427-2832	Project: 1905 Revisions:	Date: 1/7/20 A-1
	ANNE WHITNEY ARCHITECT		

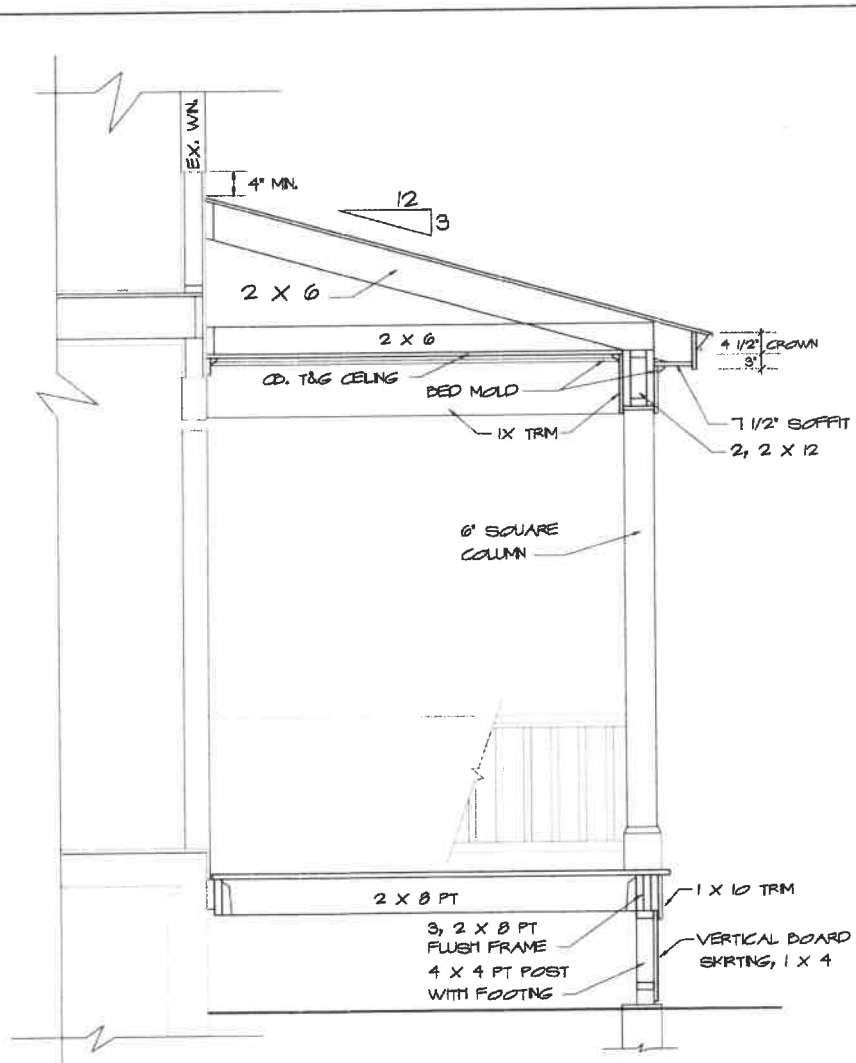


DETACHED GARAGE 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"

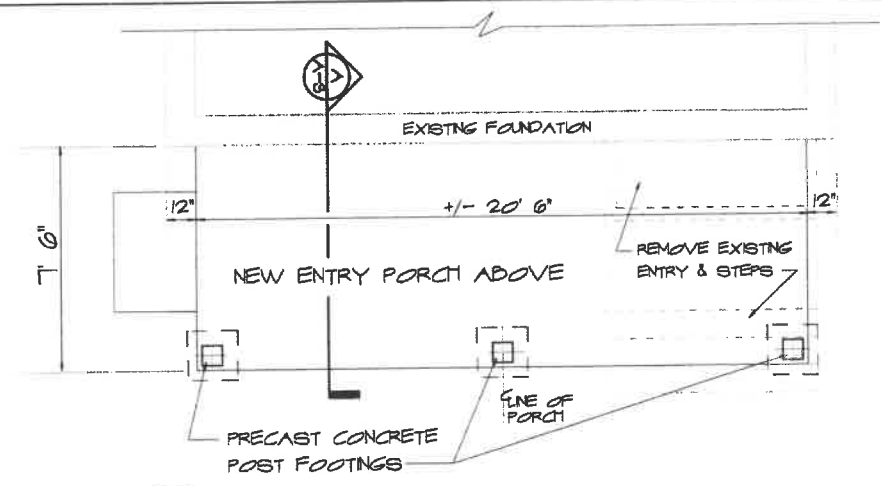
GENERAL NOTES

1. Dimensions where provided shall take precedent over scale of Drawings. Contractor to measure and verify all dimensions at work.
2. Interpretation of Contract Documents: Contractor shall promptly notify the Architect of any ambiguity, inconsistency or error which they may discover upon examination of the Contract Documents, the Site or Local Conditions. If the Contractor knowingly does not notify the Architect of any such ambiguity, inconsistency or error they therefore accept such conditions and will make such additions or corrections necessary to properly complete the work, at their expense
3. Perform all work of this CONTRACT according to all Local, State or National Codes and/or Ordinances. Secure all Permits Required.
4. Design and Installation of the Mechanical Systems is the responsibility of the Subcontractors for the specific trades and must comply with all National, State, Local Codes and Authorities Having Jurisdiction.
5. Design and Installation of the Electrical Systems is the responsibility of the Subcontractors for the specific trades and must comply with all National, State, Local Codes and Authorities Having Jurisdiction.

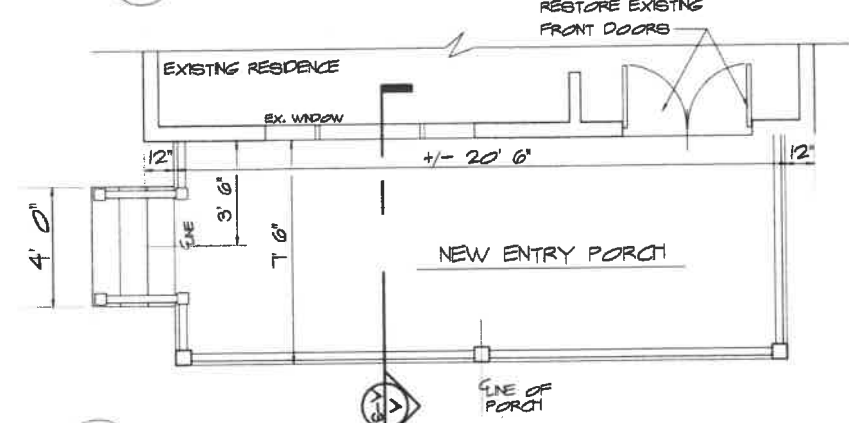
GARAGE 1ST FLOOR PLAN & GENERAL NOTES PORCH AND GARAGE ADDITIONS, MILLIKAN RESIDENCE 284 NEW CASTLE AVE PORTSMOUTH, NH	8 Shoofly Street Portsmouth NH 03801 603-427-2822		Project: 1900	Date: 11/7/20
			ANNE WHITNEY ARCHITECT	A-2



A FRONT PORCH SECTION
SCALE: 1/2" = 1'-0"

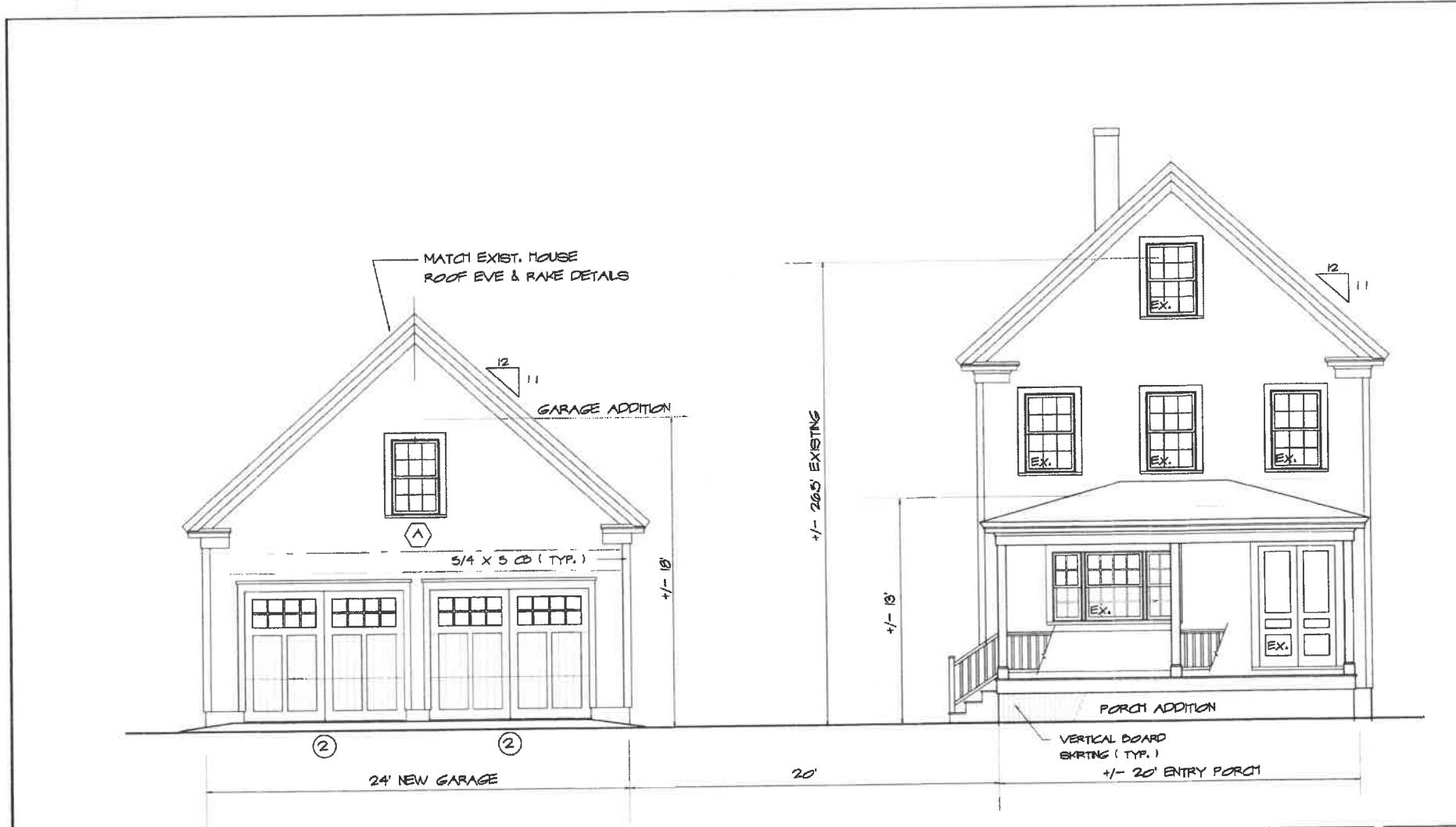


FRONT PORCH FOOTING PLAN
SCALE: 1/4" = 1'-0"



FRONT PORCH
SCALE: 1/4" = 1'-0"

9 Shaws Street Portsmouth NH 03801 603-427-2832		Project: 01905	Date: 1/7/20
		FRONT PORCH PLANS & SECTION A PORCH AND GARAGE ADDITIONS, MILKAN RESIDENCE 284 NEW CASTLE AVE. PORTSMOUTH, NH	ANNE WHITNEY ARCHITECT 284 NEW CASTLE AVE. PORTSMOUTH, NH



RESIDENCE & GARAGE FRONT ELEVATIONS
 SCALE: 3/16" = 1'-0"

FRONT ELEVATIONS PORCH AND GARAGE ADDITIONS, MULKAN RESIDENCE 284 NEW CASTLE AVE. PORTSMOUTH, NH	9 Sheafe Street Portsmouth NH 03801 603-427-2232	Project: 1905 Revisions:	Date: 1/7/20 A-4

W I N D O W S C H E D U L E

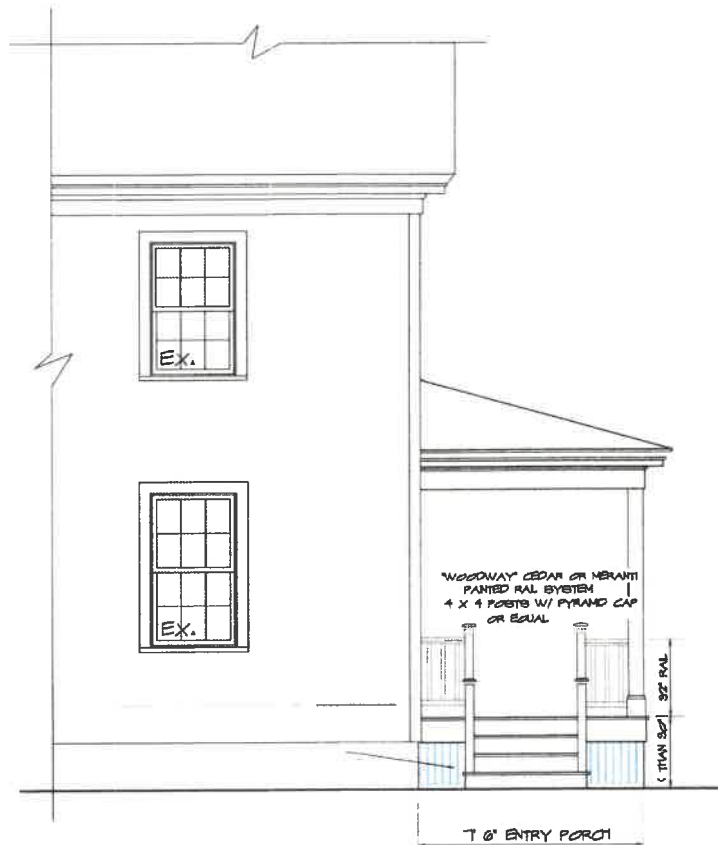
SYM.	UNIT	LITES	ROUGH OPENING	REMARKS	QUAN.
A	TW 2642	6/6	2'-9 5/8" X 4'-4 7/8"	MARVIN INC., Integrity Double Hung, Low E Glazing, SDL with spacer bar, Cladding & Screen Color "Stone White", 2 x 6 wall.	3
B	TW 2642	6/6	2'-9 5/8" X 4'-4 7/8"	DITTO, Tempered	1

E X T E R I O R D O O R S C H E D U L E

SYM.	UNIT	LITES	DOOR SIZE	REMARKS	QUAN.
1	S 2150 1/2 Lite	9 SDL	3' 0" x 7' 0"	THERMA-TRU, SMOOTH STAR FIBERGLASS ENTRY DOOR with Low-E Glazing, Simulated Divided Lites Hardware to be chosen by owner.	1
2	Mod. # 162E	see elev.	7' 6"H x 9' 0"W	GENERAL DOOR CORP., Cambridge Series Insulated Wood Composite Garage Door	2

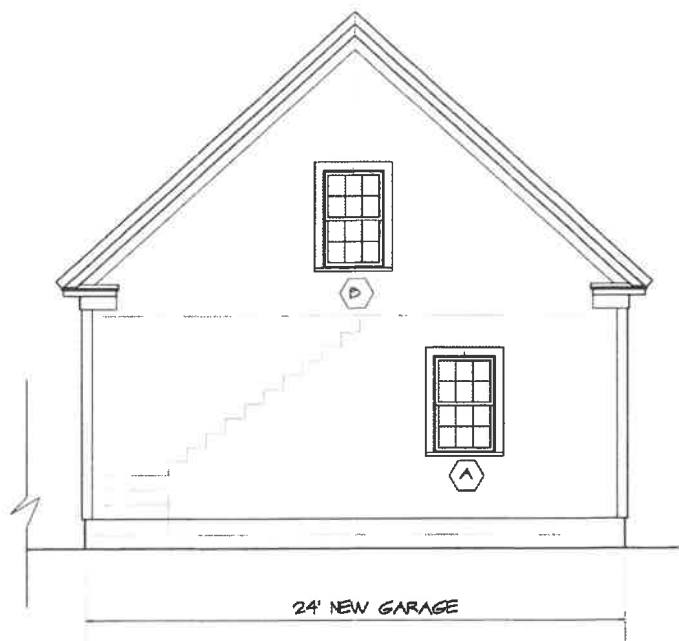
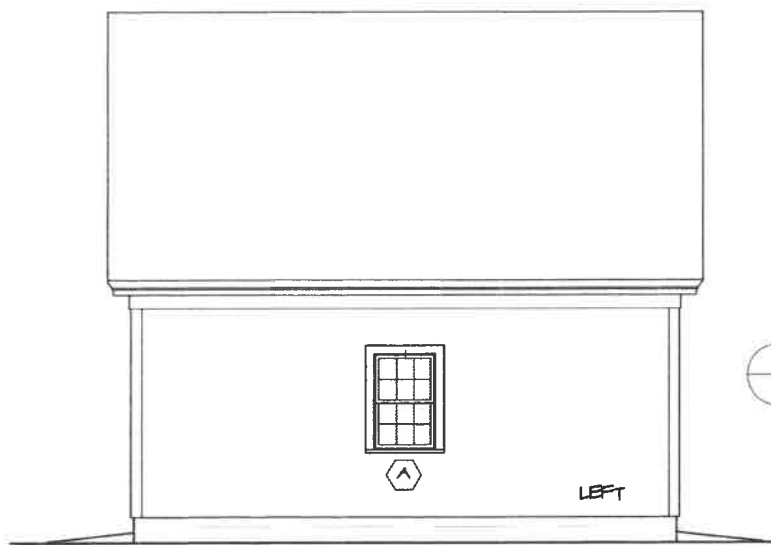
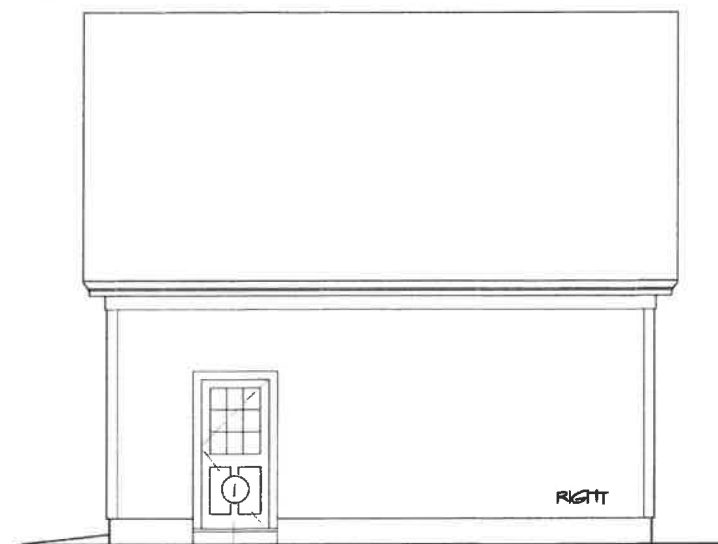
WINDOW & EXT. DOOR NOTES :

1. SUBMIT FINAL WINDOW & EXT. DOOR ORDER & SHOP DRAWINGS TO ARCHITECT TO ARCHITECT FOR REVIEW & APPROVAL BEFORE ORDERING
2. BUILDER TO VERIFY RO'S & WALL THICKNESS.



○ PORCH SIDE ELEVATION
 SCALE: 1/4" = 1'-0"

PORCH SIDE ELEVATION WINDOW / EXT DOOR SCHEDULES PORCH AND GARAGE ADDITIONS 284 NEW CASTLE AVE PORTSMOUTH, NH	 ANNE WHITNEY ARCHITECT	Project: 01905 Revisions:	Date: 11/7/20 <div style="text-align: center; font-size: 24px; font-weight: bold;">A-5</div>
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○ GARAGE REAR ELEVATION
SCALE: 3/16" = 1'-0"

○ GARAGE RIGHT & LEFT SIDE ELEVATIONS
SCALE: 3/16" = 1'-0"

GARAGE SIDE &
REAR ELEVATIONS
PORCH AND GARAGE ADDITIONS, MILKAN RESIDENCE
284 NEW CASTLE AVE. PORTSMOUTH, NH

9 Sheepshead Street
Portsmouth, NH 03851
603-427-9832

AW

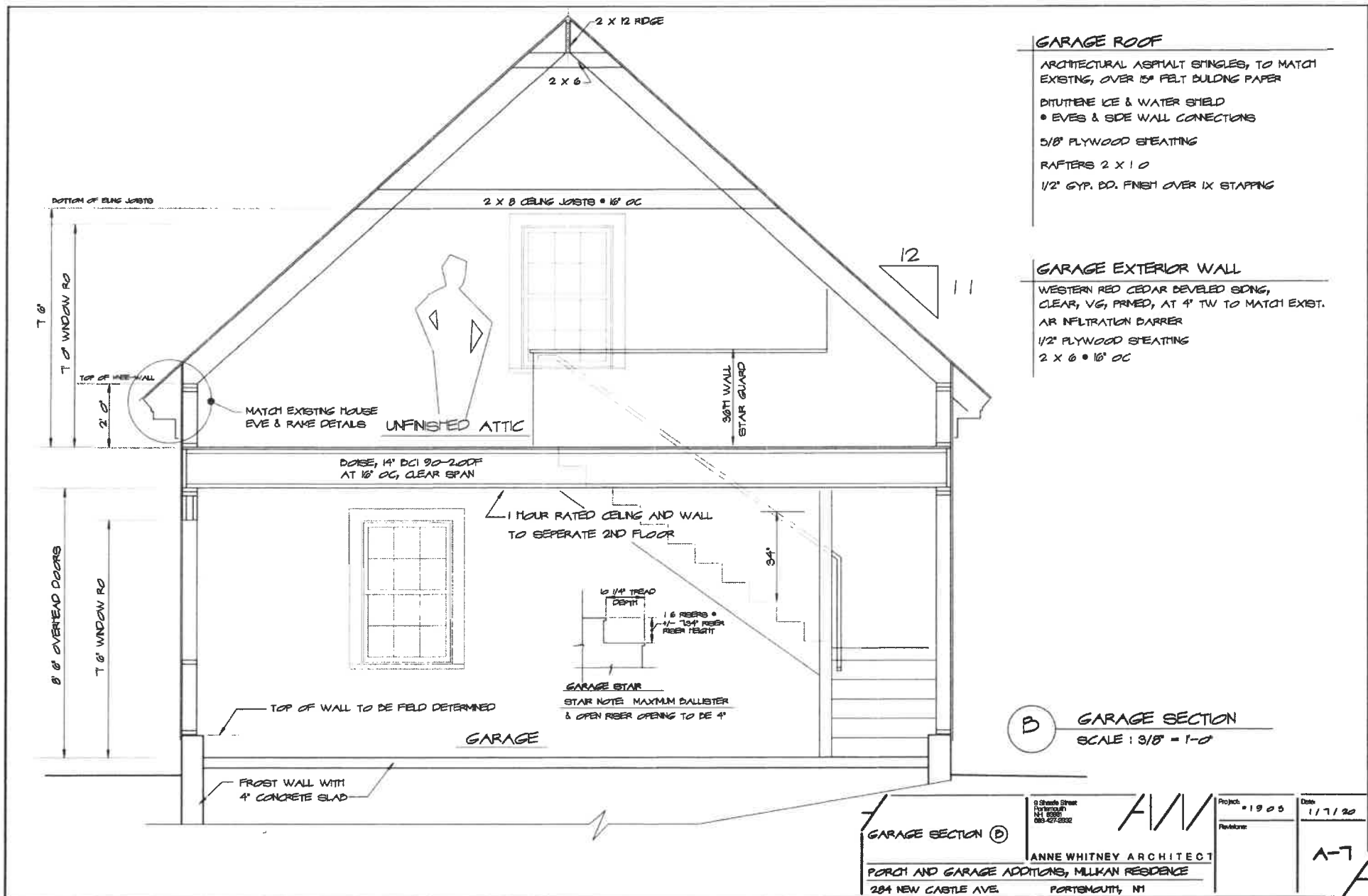
ANNE WHITNEY ARCHITECT

Project: 1905

Date: 1/7/20

Revisions:

A-6



GARAGE ROOF

ARCHITECTURAL ASPHALT SHINGLES, TO MATCH EXISTING, OVER 15# FELT BUILDING PAPER

DIUTHERE ICE & WATER SHIELD

- EVES & SIDE WALL CONNECTIONS

5/8" PLYWOOD SHEATHING

RAFTERS 2 X 10

1/2" GYP. BD. FINISH OVER IX STAPLING

GARAGE EXTERIOR WALL

WESTERN RED CEDAR BEVELED SIDING, CLEAR, VG, PRIMED, AT 4" TW TO MATCH EXIST.

AR INFILTRATION BARRIER

1/2" PLYWOOD SHEATHING

2 X 6 @ 16" OC

B GARAGE SECTION
SCALE: 3/8" = 1'-0"

<p>GARAGE SECTION (B)</p> <p>ANNE WHITNEY ARCHITECT</p> <p>PORCH AND GARAGE ADDITIONS, MILLIKAN RESIDENCE</p> <p>284 NEW CASTLE AVE. PORTSMOUTH, NH</p>	<p>9 Shields Street Portsmouth NH 03801 603-427-8232</p>	<p>Project: 1905</p> <p>Revision:</p>	<p>Date: 11/1/20</p>
	<p>AW</p>		<p>A-7</p>

2. 65 Rogers Street

- Recommended Approval

Background: The applicant is seeking approval for the installation of an A/C condenser with fence surround.

Staff Comment: Recommended Approval

Stipulations:

1. _____
2. _____
3. _____

8/31/2020

Historic District Commission Work Session or Administrative Approval Application

LUHD-189

Status: Active

Submitted: Aug 19, 2020

Applicant



William Greenier

603-396-8114

bill@greenierbuildersinc.com

Location

65 ROGERS ST

Portsmouth, NH 03801

Application Type

Please select application type from the drop down menu below

Administrative Approval

Project Information

Brief Description of Proposed Work

Location of A/C condensers

Description of Proposed Work (Planning Staff)

--

Project Representatives

Phone

603-396-2946

Business Name (if applicable)

Greenier builders

Zip Code

--

City/Town

--

Mailing Address (Street)

--

Relationship to Project

Other

If you selected "Other", please state relationship to project.

Site supervisor

State

--

Full Name (First and Last)

Brad Baker

Email Address

brad@greenierbuildersinc.com

Acknowledgement

I certify that the information given is true and correct to the best of my knowledge.

true

I hereby certify that as the applicant for permit, I am

Other

By checking this box, I agree that this is equivalent to a handwritten signature and is binding for all purposes related to this transaction

true

If you selected "Other" above, please explain your relationship to this project. Owner authorization is required.

Supervisor

LOT COVERAGE SUMMARY

	EXISTING	PROPOSED
BUILDING FOOTPRINT	1,175 SF	1,646 SF
DECKS	184 SF	283 SF
SHED	319 SF	N/A
DRIVEWAY (IMPERVIOUS PAVERS)		1,264 SF
WALKS (BRICK)		85 SF



would like it here

ALLOWABLE BUILDING HEIGHT: 40'-0"
PROPOSED BUILDING HEIGHT: 32'-6"

NOTE: SITE PLAN INFORMATION IS BASED ON FIELD MEASUREMENTS



PROJECT NO: 201814

PROPOSED ADDITION & RENOVATIONS AT
ZERR RESIDENCE
65 ROGERS STREET
PORTSMOUTH, NEW HAMPSHIRE

PROPOSED SITE PLAN
1/8" = 1'-0"

2 OF 7
21 AUGUST 2018



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LOT COVERAGE SUMMARY

	EXISTING	PROPOSED
BUILDING FOOTPRINT	1,175 SF	1,646 SF
DECKS	184 SF	283 SF
SHED	319 SF	N/A
DRIVEWAY (IMPERVIOUS PAVERS)		1,264 SF
WALKS (BRICK)		85 SF



ALLOWABLE BUILDING HEIGHT: 40'-0"
PROPOSED BUILDING HEIGHT: 32'-4"

NOTE: SITE PLAN INFORMATION IS
BASED ON FIELD MEASUREMENTS



PROJECT NO: 201814

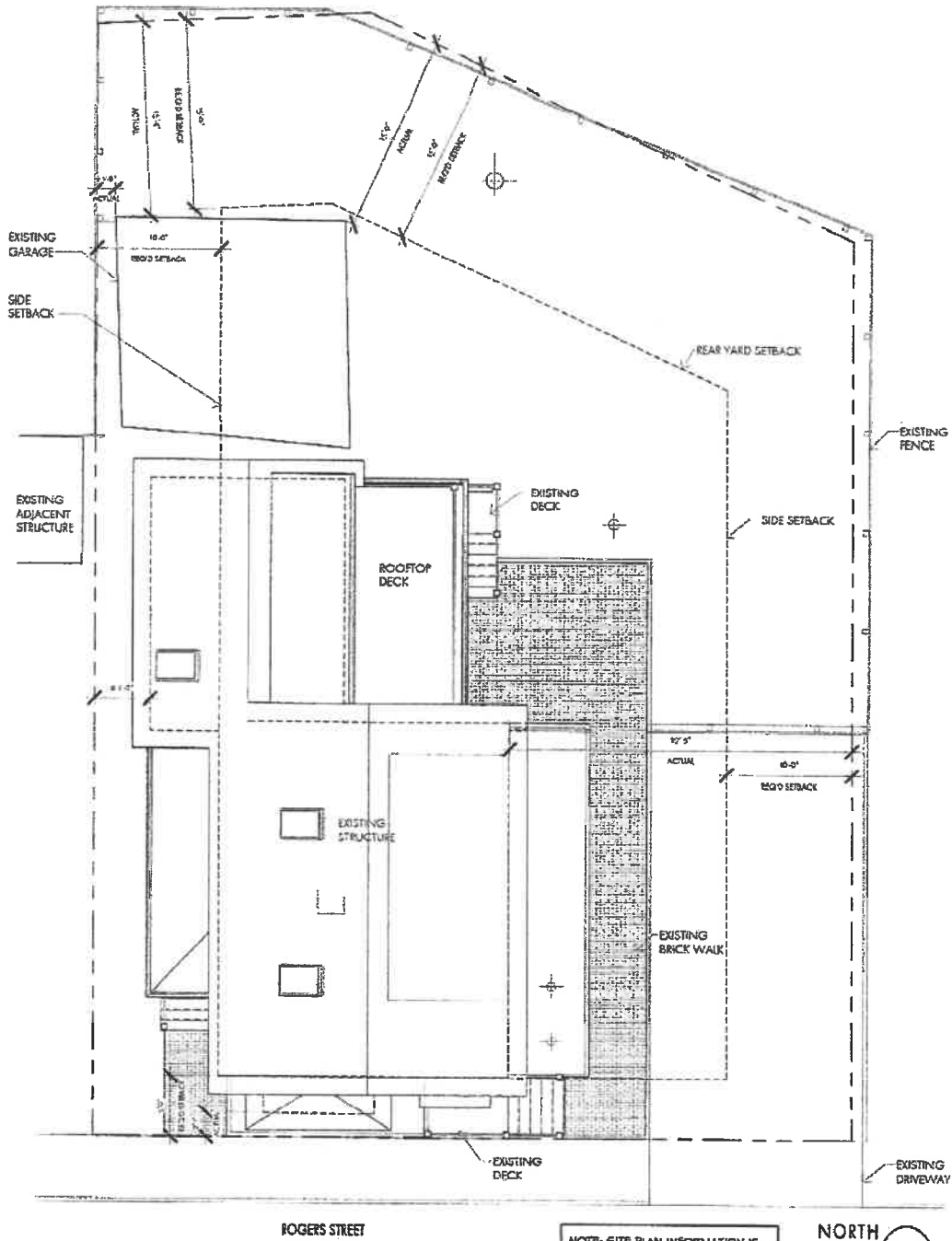


PROPOSED ADDITION & RENOVATIONS AT
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PROPOSED SITE PLAN
1/8" = 1'-0"

2 OF 7
21 AUGUST 2018

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NOTE: SITE PLAN INFORMATION IS BASED ON FIELD MEASUREMENTS



PROJECT NO: 201814

PROPOSED ADDITION & RENOVATIONS AT
ZERR RESIDENCE
 65 ROGERS STREET
 PORTSMOUTH, NEW HAMPSHIRE

EXISTING SITE PLAN
 1/8" = 1'-0"


1 OF 7
 21 AUGUST 2018

D/A
 DISMEANO ARCHITECTS

© 2018

**24VNA9 Infinity® 19VS
Variable Speed Air Conditioner
with Puron® Refrigerant
1 – 5 Tons**



turn to the experts 

Product Data



INFINITY® 19VS

The Infinity® 19VS air conditioner offers high-efficiency variable speed performance in a remarkably small cabinet and provides up to 19 SEER cooling efficiency. The variable speed inverter capacity control delivers up to 5 stages of operation for exceptional load matching, dehumidification and zoning performance.

This product has been designed and manufactured to provide flexible system matching and work with a wide variety of indoor units and controls.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

INDUSTRY LEADING FEATURES / BENEFITS

Energy Efficiency

- Up to 19 SEER / 13 EER
- Microtube Technology™ refrigeration system

Sound

- Sound level as low as 55 dBA in low speed (Silencer System II).
- Soft start and smooth ramp to operating speeds

Comfort

- Variable speed compressor operates at 5 stages with capacity range from as wide as 25-100%
- Air cooled Inverter variable speed drive
 - System requires Infinity® Touch Control with version 11 software or newer for 5 stage operation on sizes 24 - 60 and version 12 or higher on size 13.
 - Ratings provided with 2-stage thermostats and suitable non-communicating indoor products for 2-stage operation.

Reliability

- Puron® refrigerant – environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Front-seating service valves
- Inverter control drives compressor and fan motor
- No control module attached to fan motor
- Infinity intelligence monitors critical system parameters
- Pressure equalizer valve for easy compressor starting
- High pressure switch
- Suction pressure transducer
- Compressor discharge temperature sensor
- Suction temperature sensor
- Filter drier (field installed)
- Internal crankcase heater standard

Flexibility and installation:

- 2 control wires to outdoor unit in complete Infinity system and Touch Control
- Energy Tracking capability with the Infinity® Touch Control (Energy Tracking has the ability to monitor and estimate the energy consumption of your Infinity® system.)
- Smaller and lighter than 2-stage units
- Minimum and Maximum adjustments with Infinity® Touch Control
- Compatible with non-communicating thermostats

Durability

WeatherArmor Ultra™ protection package:

- Solid, Durable sheet metal construction
- Steel louver coil guard
- Baked-on, complete outer coverage, powder paint

Applications

- Line sets up to 100 ft (30.5 m) equivalent length
- No long-line accessories required.

MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	13
N	N	A	A	A/N	N	N	N	A/N	A/N	A/N	N	N
2	4	V	N	A	9	3	6	A	0	0	3	0
Product Series	Product Family	Tier	Major Series	SEER	Cooling Capacity	Variations	Open	Open	Voltage	Minor Series		
24 = AC	V = VS HP	N = Infinity Series	A = Puron	9 = 19 SEER	1,000 Btuh (nominal)	A = Standard B = Design Variation	0 = Not Defined	0 = Not Defined	3 = 208/230-1	0, 1, 2...		



STANDARD FEATURES

FEATURES	Unit Size – Voltage, Series							
	13	24B	25	36	37	48	49	60
Puron Refrigerant	X	X	X	X	X	X	X	X
Variable Speed Rotary Compressor	X	X	X	X	X	X	X	X
Air-Cooled Integrated Inverter Drive	X	X	X	X	X	X	X	X
Louvered Coil Guard	X	X	X	X	X	X	X	X
Field Installed Filter Drier	X	X	X	X	X	X	X	X
Front Seating Service Valves	X	X	X	X	X	X	X	X
Internal Pressure and Temperature Protection	X	X	X	X	X	X	X	X
Suction Pressure Transducer	X	X	X	X	X	X	X	X
High Pressure Switch	X	X	X	X	X	X	X	X
Internal Crankcase Heater	X	X	X	X	X	X	X	X
Enhanced Diagnostics with Infinity® Touch Control (version 11 software or newer for 5 stage operation on sizes 24 – 60 and version 12 or higher on size 13.)	X	X	X	X	X	X	X	X
Deluxe Sound Blanket	X	X	X	X	X	X	X	X
Outdoor Air Temperature Sensor	X	X	X	X	X	X	X	X

X = Standard

PHYSICAL DATA

UNIT SIZE SERIES	13-30	24B-30	25-31	36-31	37-30	48-30	49-30	60-30
Compressor Type	Variable Speed Rotary							
REFRIGERANT	Puron® (R-410A)							
Control	TXV (Puron® Hard Shutoff)							
Charge lb (kg)	4.6 (2.09)	4.80 (2.18)	5.5 (2.50)	6.0 (2.72)	7.5 (3.40)	7.5 (3.40)	9.6 (4.35)	8.30 (3.76)
COND FAN	Forward Swept Propeller Type, Direct Drive							
Air Discharge	Vertical							
Air Qty (CFM)	1600	2500	2500	2500	4500	4500	4800	4500
Motor HP	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3
Motor RPM	650	825	1050	1050	850	850	850	900
COND COIL								
Face Area (Sq ft)	11.12	11.12	13.90	13.90	21.50	21.50	27.53	23.65
Fins per In.	20	20	20	20	20	20	25	20
Rows	1	1	1	1	1	1	1	1
Circuits	6	5	6	6	8	8	8	8
VALVE CONNECT. (In. ID)								
Vapor	5/8	5/8	3/4	3/4	7/8	7/8	7/8	7/8
Liquid	3/8							
REFRIGERANT TUBES (In. OD)								
Rated Vapor*	3/4	3/4	7/8	7/8	1-1/8	1-1/8	1-1/8	1-1/8
Max Liquid Line	3/8							

* Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

Note: See unit Installation Instruction for proper installation.

REFRIGERANT PIPING LENGTH LIMITATIONS

Maximum Line Lengths:

The maximum allowable total equivalent length for air conditioners can vary depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the indoor unit.

Maximum Line Lengths for Air Conditioner Applications

	MAXIMUM ACTUAL LENGTH ft (m)	MAXIMUM EQUIVALENT LENGTH† ft (m)	MAXIMUM VERTICAL SEPARATION ft (m)
Units on equal level	100 (30.5)	100 (30.5)	N/A
Outdoor unit ABOVE indoor unit	100 (30.5)	100 (30.5)	100 (30.5)
Outdoor unit BELOW indoor unit	See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit'		

† Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

Maximum Total Equivalent Length† - Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Diameter w/ TXV	AC with Puron® Refrigerant – Maximum Total Equivalent Length† Vertical Separation ft (m) Outdoor unit BELOW Indoor unit;						
		0-20 (0 - 6.1)	21-30 (6.4 - 9.1)	31-40 (9.4 - 12.2)	41-50 (12.5 - 15.2)	51-60 (15.5 - 18.3)	61-70 (18.6 - 21.3)	71-80 (21.6 - 24.4)
1-Ton	3/8	100*	100*	100*	100*	100*	100*	100*
2-Ton	3/8	100*	100*	100*	100*	100*	100*	100*
3-Ton	3/8	100*	100*	100*	100*	100*	100*	100*
4-Ton	3/8	100*	100*	100*	100*	100	100	--
5-Ton	3/8	100*	100*	100*	100*	100	100	--

* Maximum actual length not to exceed 100 ft (30.5 m)

† Total equivalent length accounts for losses due to elbows or fitting.

-- = outside acceptable range

LONG LINE APPLICATIONS

Unit is approved for up to 100 ft (30.5 m) equivalent length and vertical separations shown above with no additional accessories. Longer line set applications are not permitted.

COOLING CAPACITY LOSS TABLE

Nominal Size (Btuh)	Line OD (in.)	24VNA9 Cooling Capacity Loss (%)				
		Total Equivalent Line Length (ft)				
		25	50	75	80	100
13	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
24B	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
25	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
	7/8	0.0	0.1	0.3	0.3	0.4
36	5/8	1.1	2.4	3.7	4.0	5.0
	3/4	0.3	0.8	1.3	1.4	1.8
	7/8	0.0	0.3	0.5	0.6	0.8
37	3/4	0.7	1.6	2.4	2.6	3.2
48	7/8	0.3	0.7	1.1	1.2	1.6
49	1 1/8	0.0	0.1	0.2	0.3	0.4
60	3/4	1.0	2.3	3.5	3.8	4.8
	7/8	0.4	1.0	1.7	1.8	2.3
	1 1/8	0.0	0.1	0.3	0.4	0.5

Rating Line Size in **BOLD**

MIN/MAX AIRFLOW TABLES

The indoor airflow delivered by this system varies significantly based on outdoor temperature, indoor unit combination, and system demand. The airflows on these tables are for duct design considerations. Duct systems capable of these ranges will ensure

the system will deliver full capacity at all outdoor temperatures. Minimum and maximum airflows can be adjusted from these numbers in the Infinity Control Setup screen.

Size	Cooling – Comfort Mode		Minimum Cooling (Dehum or Zoning)
	Max Stage 5 Airflow	Max Stage 1 Airflow	
1–Ton	420	300	300
2–Ton	739	300	300
3–Ton	990	300	300
4–Ton	1389	542	457
5–Ton	1600	700	600

Size	Cooling – Efficiency Mode	
	Max Stage 5 Airflow	Max Stage 1 Airflow
1–Ton	420	300
2–Ton	825	585
3–Ton	1050	600
4–Ton	1400	875
5–Ton	1800	975

Size	Cooling Max Mode	
	Max Stage 5 Airflow	Max Stage 1 Airflow
1–Ton (550 cfm/ delivered ton)	780	434
2–Ton (24)	850	585
2–Ton (25) (550 cfm/ delivered ton)*	1350	510
3–Ton	1200	600
4–Ton	1600	875
4–Ton–49	1450	875
5–Ton	2000	975

* Serial number beginning with 0115E and newer

LEGEND:

Max Capacity Airflow – Stage 5 airflow varies depending on conditions. This is the highest airflow the system will attempt to deliver in this particular mode. Ductwork for non-zoned systems should be sized for this airflow to ensure the system can deliver full capacity when needed. Improper duct design may result in excessive airflow noise and/or cutback occurrences at max airflow conditions.

Highest Min. Capacity Airflow – Stage 1 airflow also varies depending on conditions. In zoned systems, each zone must be capable of delivering this airflow for the system to deliver full capacity into the zone. Otherwise, airflow may be diverted to other zones or cutback may occur.

Min Cooling (Dehum or Zoning) – Lowest airflow the system will deliver. May operate down to this airflow in dehumidification mode or in zoning applications where ductwork restrictions have caused the blower to cut-back.

ELECTRICAL DATA

UNIT SIZE – VOLTAGE, SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE ** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
13–30	208–230–1	253	197	N/A	10.3	0.58	13.5	20
24B–30				N/A	10.3	0.58	13.5	20
25–31				N/A	17.7	1.20	23.6	40
36–31				N/A	18.4	1.20	24.2	40
37–30				N/A	19.6	1.20	26.0	40
48–30				N/A	20.9	1.20	27.3	40
49–30				N/A	19.6	1.40	26.0	40
60–30				N/A	30.9	1.40	40.0	60

* Permissible limits of the voltage range at which the unit will operate satisfactorily

** Time–Delay fuse.

FLA – Full Load Amps

LRA – Locked Rotor Amps

MCA – Minimum Circuit Amps

RLA – Rated Load Amps

NOTE: Control circuit is 24–V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE – VOLTAGE, SERIES	
13–30	If a Touch Control is installed, subcooling recommendation displayed in Charging Mode must be followed. If not, subcooling chart shown on the charging label must be followed
24B–30	
25–31	
36–31	
37–30	
48–30	
49–30	
60–30	

RPM-CAPACITY-SOUND (dBA)*

STAGE #	COMP RPM	CAPACITY %	SOUND (dBA)
24VNA913			
1	1500	58%	58
2	1867	72%	59
3	2100	81%	59
4	2350	90%	59
5	2600	100%	60
24VNA924B			
1	1500	35%	55
2	2566	56%	60
3	3150	69%	65
4	3950	87%	66
5	4700	100%	68
24VNA925			
1	1200	36%	56
2	1900	58%	61
3	2400	73%	63
4	2600	79%	67
5	3300	100%	69
24VNA936			
1	1200	25%	56
2	2400	50%	61
3	3300	69%	65
4	4200	88%	69
5	4800	100%	71
24VNA937			
1	1200	40%	56
2	1800	60%	63
3	2200	73%	67
4	2600	87%	67
5	3000	100%	68
24VNA948			
1	1500	35%	62
2	2460	57%	65
3	2800	65%	67
4	3650	84%	70
5	4320	100%	72
24VNA949			
1	1200	38%	57
2	1840	59%	62
3	2300	74%	66
4	2700	87%	68
5	3120	100%	73
24VNA960			
1	1200	32%	57
2	2180	55%	61
3	2850	70%	64
4	3700	90%	70
5	4140	100%	72

*Estimated sound for stages 2, 3, and 4
 For 2-stage operation: Low = Stage 2, High = Stage 5

SOUND POWER LEVEL (dBA)

Unit Size– Voltage, Series	Typical Octave Band Spectrum (without tone adjustment)	Min Speed Cooling	Max Speed Cooling
013–30	Freq (Hz)	1500 RPM	2600 RPM
	125	62.0	64.0
	250	61.0	59.5
	500	54.0	55.0
	1000	53.0	57.0
	2000	49.0	50.0
	4000	42.0	49.5
	8000	47.5	49.5
	Sound Rating (dBA)	59	63
024B–30	Freq (Hz)	1500 RPM	4700 RPM
	125	63.0	67.5
	250	57.0	66.5
	500	51.5	61.5
	1000	47.5	58.0
	2000	41.5	54.5
	4000	38.0	57.5
	8000	45.5	53.5
	Sound Rating (dBA)	55	67
025–31	Freq (Hz)	1200 RPM	3300 RPM
	125	59.5	70.0
	250	56.0	67.5
	500	54.0	67.5
	1000	50.0	63.5
	2000	41.5	59.0
	4000	35.0	58.0
	8000	48.0	51.5
	Sound Rating (dBA)	55	69
036–31	Freq (Hz)	1200 RPM	4800 RPM
	125	59.5	70.0
	250	56.0	68.0
	500	54.0	66.0
	1000	50.0	64.0
	2000	41.5	61.5
	4000	35.0	62.0
	8000	48.0	55.5
	Sound Rating (dBA)	55	72
037–30	Freq (Hz)	1200 RPM	3000 RPM
	125	64.0	74.0
	250	61.0	68.0
	500	57.5	66.5
	1000	53.5	61.5
	2000	49.0	59.5
	4000	42.0	57.5
	8000	44.0	51.0
	Sound Rating (dBA)	60	69
048–30	Freq (Hz)	1500 RPM	4320 RPM
	125	67.0	73.5
	250	63.0	71.5
	500	57.0	69.5
	1000	54.5	64.5
	2000	51.0	62.5
	4000	54.0	62.5
	8000	47.5	54.5
	Sound Rating (dBA)	64	72
49–30	Freq (Hz)	1200	3120
	125	44.5	52.0
	250	48.5	63.0
	500	50.5	63.5
	1000	51.5	67.5
	2000	47.5	61.5
	4000	43.5	58.5
	8000	47.5	54.5
	Sound Rating (dBA)	57	73.0
060–30	Freq (Hz)	1200 RPM	4140 RPM
	125	61.5	71.5
	250	59.5	73.0
	500	54.5	70.0
	1000	50.5	65.0
	2000	44.0	62.0
	4000	41.5	60.5
	8000	49.0	58.0
	Sound Rating (dBA)	57	72

NOTE: Tested in compliance with AHRI 270–1995 but not listed with AHRI.

ACCESSORIES

KIT NUMBER	KIT NAME	13-30	24B-30	25-31	36-31	37-30	48-30	49-30	60
KSASF0101AAA	SPRT FEET KIT						X	X	X
KSASF0201AAA	SPRT FEET KIT	X	X	X	X	X			
KSATX0201PUR	TXV KIT	X	X	X					
KSATX0301PUR	TXV KIT				X	X			
KSATX0401PUR	TXV KIT						X	X	
KSATX0501PUR	TXV KIT								X
KSBTX0201PUR	TXV KIT	X	X	X					
KSBTX0301PUR	TXV KIT				X	X			
KSBTX0401PUR	TXV KIT						X	X	
LM10KK003	VAPOR LINE MUFFLER	X	X	X	X	X	X	X	X

x = Accessory

Accessory Description and Usage

Support Feet

Raises unit above base pad. 2 and 3 ton kit contains 5 feet for stable installation with small base. 4 and 5 ton kit contains 4 feet.

Usage Guideline:

Recommended for rooftop applications

Thermostatic Expansion Valve (TXV)

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Usage Guideline:

Required if indoor unit does not already contain Puron® refrigerant TXV

Vapor Line Muffler

An external muffler installed in the vapor line to minimize vibration transmitted through refrigerant lines

Usage Guideline:

Recommended if vapor line is not installed per recommendations in the installation instructions and vibration may be transmitted into the structure.

CONTROLS

SYSTXCCITN01-A	Infinity® Touch Control (non-Wi-Fi) (version 11 software or newer for 5 stage operation on sizes 24 – 60 and version 12 or higher on size 13.)
SYSTXCCITC01-A	Infinity® Touch Control (Wi-Fi) (version 11 software or newer for 5 stage operation on sizes 24 – 60 and version 12 or higher on size 13.)
SYSTXCCITW01-A	Infinity® Touch Control with Wi-Fi & Wireless Access Point
SYSTXCC4ZC01	Infinity® 4-Zone Damper Control Module
SYSTXCCSMS01	Infinity® Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)
SYSTXCCNIM01	Infinity® Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on non-zoning applications.)
SYSTXCCSMS01	Infinity® Smart Sensor

THERMOSTATS

PART NUMBER	PROGRAM	GAS	ELECTRIC	HEAT	COOL
TP-PAC01	7-Day	√	√	1	1
TP-NRH01-A	NP	√	√	3	2
TP-NAC01	NP	√	√	1	1

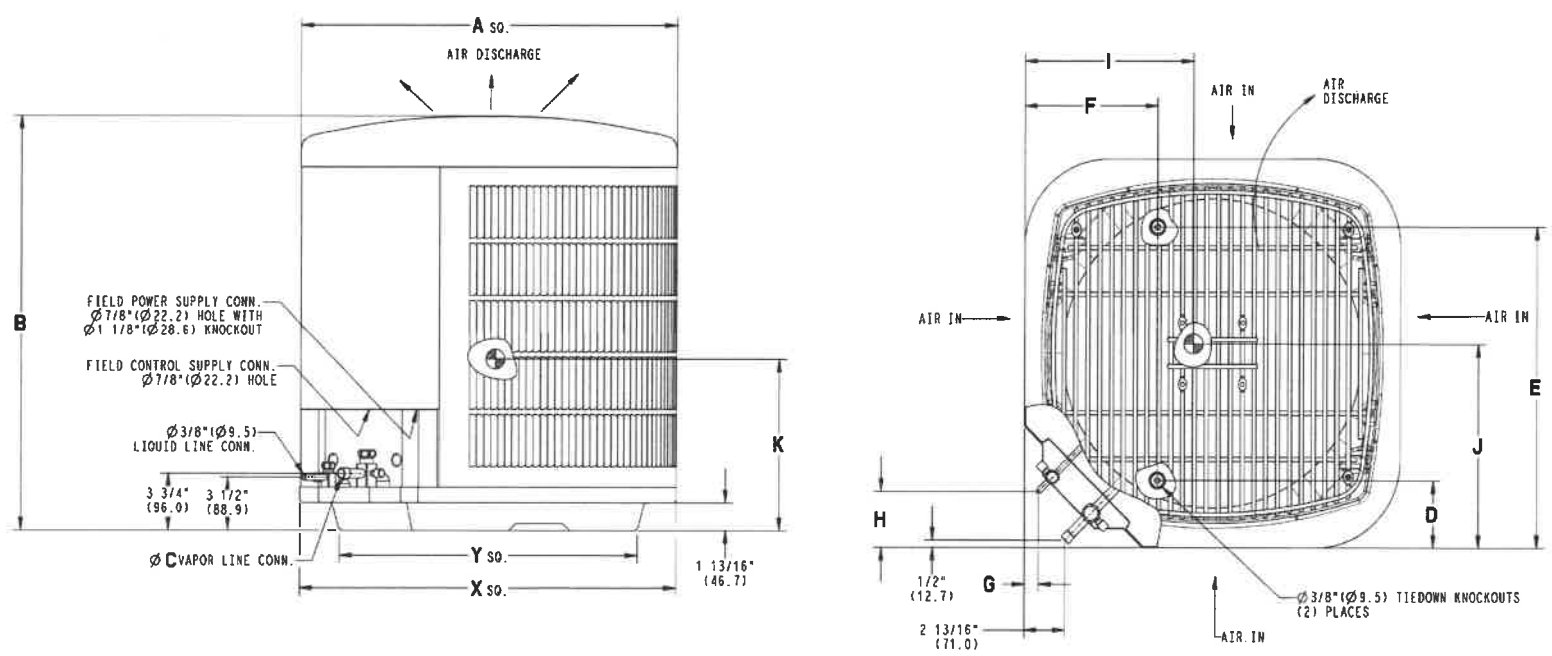
DIMENSIONS

UNIT	SERIES	ELECTRICAL CHARACTERISTICS				A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM
24VNA913A0030050	0	Y	N	N	N	23 1/8	587.3	32 1/8	815.6	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	11 1/4	285.8	11 1/4	285.8	14 1/2	368.3	135	61.2	158	71.7	25 1/4	641.5	36 9/16	929.5
24VNA924B0030050	0	Y	N	N	N	23 1/8	587.3	32 1/8	815.6	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	11 1/4	285.8	11 1/4	285.8	14 1/2	368.3	135	61.2	158	71.7	25 1/4	641.5	36 9/16	929.5
24VNA925A0031050	1	Y	N	N	N	23 1/8	587.3	38 15/16	988.4	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	10 3/4	273.1	10 3/4	273.1	18 1/4	463.6	160	72.6	186	84.4	25 1/4	641.5	43 3/8	1102.2
24VNA936A0031050	1	Y	N	N	N	23 1/8	587.3	38 15/16	988.4	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	10 3/4	273.1	10 3/4	273.1	18 1/4	463.6	160	72.6	186	84.4	25 1/4	641.5	43 3/8	1102.2
24VNA937A0030050	0	Y	N	N	N	31 3/16	792.5	39 3/8	1000.5	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	14 1/2	368.3	14 5/8	371.5	18 3/4	476.3	216	98.0	255	115.7	33 5/16	846.6	45 1/4	1149.1
24VNA948A0030050	0	Y	N	N	N	31 3/16	792.5	39 3/8	1000.5	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	14 1/2	368.3	14 5/8	371.5	18 3/4	476.3	216	98.0	255	115.7	33 5/16	846.6	45 1/4	1149.1
24VNA949A0030050	0	Y	N	N	N	35	889.0	43 13/16	1112.6	7/8	22.2	6 9/16	166.1	28 7/16	722.8	9 1/8	231.3	5/16	7.9	3	76.2	16 1/4	412.8	16 1/4	412.8	20 1/2	520.7	262	118.8	300	136.1	37 1/8	943.1	50 3/16	1274.9
24VNA960A0030050	0	Y	N	N	N	31 3/16	792.5	42 13/16	1086.9	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	16 1/2	419.1	15	381.0	20	508.0	241	109.3	282	127.9	33 5/16	846.6	46 1/4	1224.8

208-230-1-60	209-230-3-60	460-3-60	575-3-60
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Y=YES
N=NO

NOTES:
1. CENTER OF GRAVITY



UNIT SIZE	"X" MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		"Y" MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	
	INCH	MM	INCH	MM
13,24,25,36	23 1/8	587.3	17 7/8	454.6
-	25 3/4	654.0	20 7/16	518.5
37,48,60	31 3/16	792.5	22 15/16	583.2
49	35	889.0	26 3/4	679.7

NOTE: ALL DIMENSIONS IN INCH (MM) U.S. ECCN: Not Subject to Regulation (N.S.R.)