



CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

Project Description:

Install rooftop HVAC vents

309 N Blount St

Address

Blount Street

Historic District

Heck-Andrews House

Historic Property

COA-0169-2019

Certificate Number

12/20/2019

Date of Issue

6/20/2020

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. Kinnel

Raleigh Historic Development Commission

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

Type or print the following:

Applicant name: James G Grady, PhD, AIA

Mailing address: 129 Sterlingdaire Dr.

City: Cary

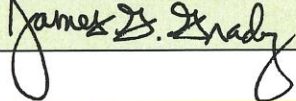
State: NC

Zip code: 27511

Date: Dec. 4, 2019

Daytime phone #: 919 834-5939

Email address: jim@jgarchitect.net

Applicant signature: 

Minor work (staff review) – one copy

Major work (COA committee review) – ten copies

Additions > 25% of building sq. footage

New buildings

Demolition of building or structure

All other

Post approval re-review of conditions of approval

Office Use Only

Transaction #: _____

File #: COA-0169-2019

Fee: _____

Amount paid: _____

Received date: _____

Received by: _____

Property street address: 309 N. Blount St. Raleigh, NC 27601

Historic district: Blount Street

Historic property/Landmark name (if applicable): Heck-Andrews House

Owner name: North Carolina Association Of Realtors

Owner mailing address: 4511 Weybridge Lane Greensboro, NC 27407

For applications that require review by the COA Committee (major work), provide addressed and stamped envelopes for owners for all properties with 100 feet on all sides of the property, as well as the property owner.

Property Owner Name & Address

Property Owner Name & Address

I understand that all major work applications that require review by the Raleigh Historic Development Commission's COA Committee must be submitted by 4 p.m. on the date of the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Will you be applying for rehabilitation tax credits for this project? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Office Use Only Type of work: <u>81</u>
Did you consult with staff prior to filing the application? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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).
		Update Exist. COA 133-17-MW & 063-18-CA for Added HVAC Vents

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 06/20/2020.

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 12/20/2019

Minor Work COA Application- Rooftop HVAC Vents
Written Description
Heck-Andrews House Renovations

Site Conditions have not changed, and construction is continuing as approved in existing COA's 133-17-MW & 063-18-CA. This minor work application for added rooftop HVAC Vents is being submitted as an addition to the existing COA's.

Due to structural concerns with preserving the existing historic chimneys, we are unable to route the HVAC ductwork up through the historic chimneys as planned and must use roof mounted intakes and exhausts at the least visible locations on the roof, one supply and one exhaust. I have made several site visits to determine the carefully planned proposed locations on the south side of the high, low-sloped standing seam roofs. These locations have minimal visibility from the surrounding sites, are generally not visible from Blount Street or North Street. The new vents are chosen to be as low as possible, to match the style of the existing standing seam roof, and to be painted the matching, previously approved color (see existing conditions photo following).

Submitted materials include:

- Application Cover
- Written Description
- Photographs of Existing Conditions (Dec. 2019)
- Greenheck Fabra Hood Gravity Intake/Exhaust Product Sheets
- Drawings:
 - A-4 Main / Tower Roof Plan- HVAC Vents
 - A-5 East Building Elevation- HVAC Vents
 - A-6 North Building Elevation- HVAC Vents
 - A-5 West Building Elevation- HVAC Vents
 - A-5 South Building Elevation- HVAC Vents
- All submitted materials are being emailed to Tania Tully and Collette Kinane following submittal of hard copies to City of Raleigh.

COA Application- Photographs Of Existing Conditions Heck-Andrews House Renovations- HVAC Vents

Heck-Andrews House Existing Conditions- December 2019



Existing Heck-Andrews House East Elevation
From N. Blount Street



Existing Heck-Andrews House North Elevation
From North Street



Existing Heck-Andrews House West Elevation- From Bath Bldg.



Existing Heck-Andrews House South Elevation
From Lane Street at Andrews/ London House

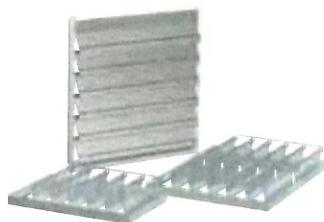


Existing Heck-Andrews House Southeast Elevation
From N. Blount St.

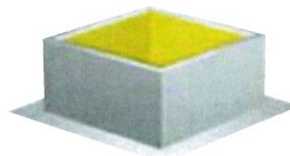


Existing Heck-Andrews House Standing Seam Roof Color And Profile

Backdraft Dampers



Backdraft dampers are available for intake or relief with either gravity or motorized operation. Motorized dampers are recommended for all intake or low velocity relief applications. Damper sizes are the same as throat sizes.



Roof Curbs

Prefabricated roof curbs ensure compatibility between the gravity ventilator, curb and roof opening. Curb extensions

are also available. Curb models are available to meet a wide range of applications and varying roof architecture and construction. See the Greenheck Roof Curbs, Extensions and Equipment Supports catalog for complete details on these products.

On-Site Assembly

Flexibility is a primary feature of the Fabra Hood design. Interlocking hood panels and extendible throats allow units to be constructed to long lengths. On-site assembly for these larger units is not difficult and actually offers several advantages.

For jobs with large throat sizes, assembling hoods on-site reduces costs. There is a cost savings in carrying unassembled components to the roof versus the expense of cranes or other equipment involved in lifting a bulky assembled unit. The risk of damage in transporting large assembled units is also reduced when they are assembled on the roof deck.

In addition, the space saved by a compact crate of knocked-down component parts reduces shipping charges and final costs over large, fully assembled units.

Ease of Assembly

Hoods of any length can be easily constructed on the jobsite. No special tools or training are required to assemble a Greenheck Fabra Hood.

Fabra Hoods are assembled with the following basic steps:

Step 1—Base ends, base sides and intermediate hood supports (when required) are placed in position and bolted together.

Step 2—Hood support angles are attached.

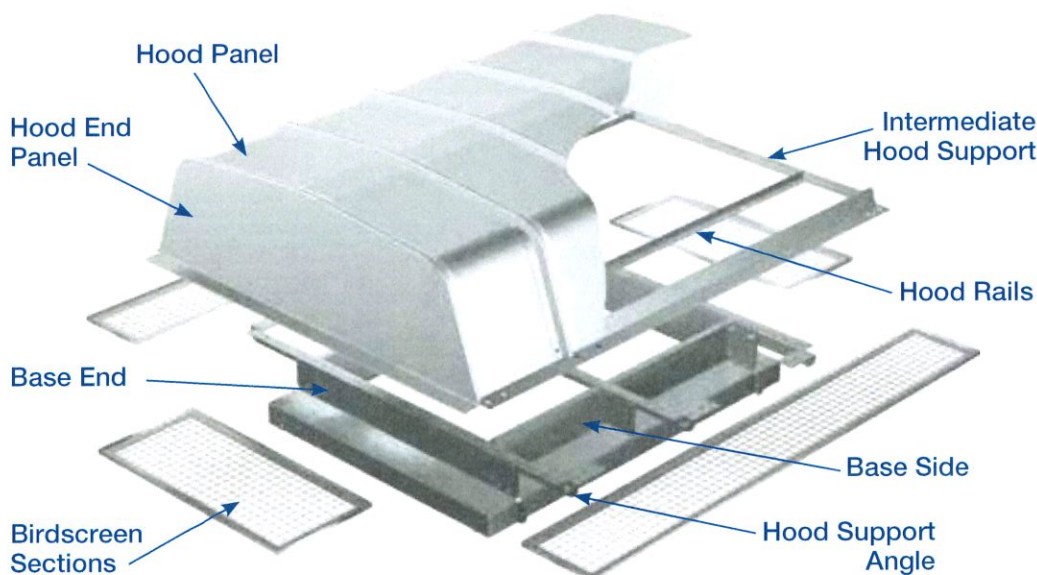
Step 3—All fasteners are tightened and all inside base corners are caulked.

Step 4—Birdscreens are attached to hood support angles.

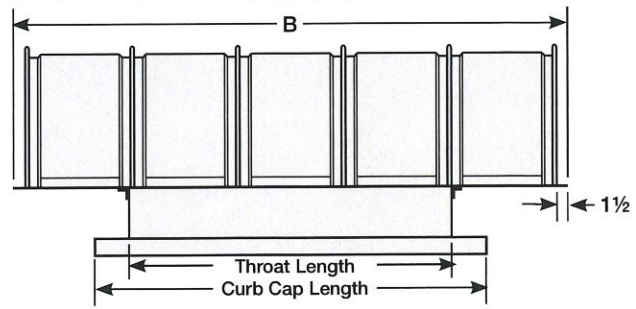
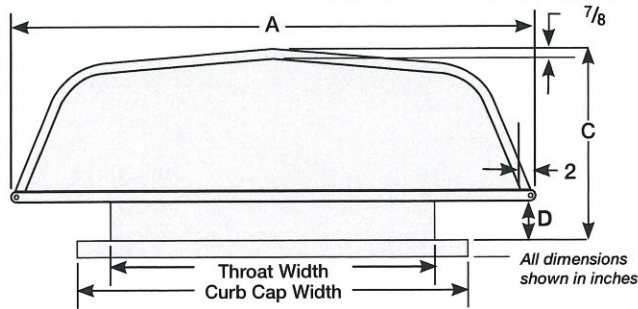
Step 5—Hood rails are attached to hood support angles.

Step 6—Hood panels and end panels are assembled to hood rails.

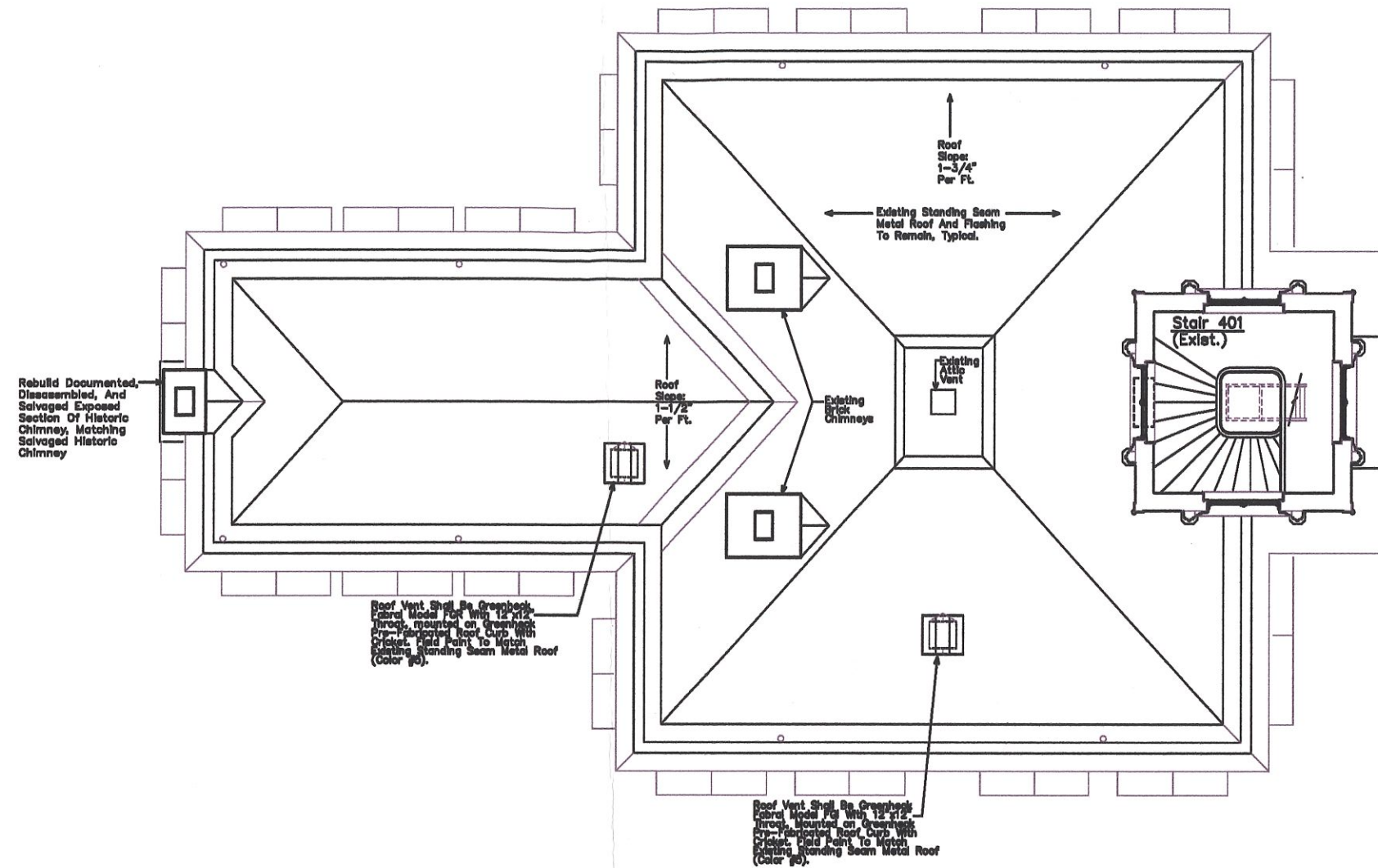
All hardware is provided with each unit along with complete, detailed and well illustrated instructions.



Fabra Hood - Gravity Intake Model FGI



Dimensional Data								Performance Data								Shipped Assembled	Galvanized Unit Weight
Throat Area	Throat Width x Length	Curb Cap Width x Length	Optional Damper Width x Length	Width	Length	Overall Height	Base Height	DUCTED STATIC PRESSURE DROP (in. wg)									
								0.030	0.047	0.071	0.089	0.119	0.149	0.196			
								NON-DUCTED STATIC PRESSURE DROP (in. wg)									
								0.053	0.085	0.127	0.158	0.212	0.267	0.350			
								HOOD INTAKE VELOCITY / THROAT VELOCITY (ft/min.)									
				A	B	C	D	235/475	297/600	364/735	406/820	470/950	527/1065	604/1220			
ft ²	Inches							CFM									POUNDS
0.44	8 x 8	14 x 14	8 x 8	22	27	14	5	211	267	327	364	422	474	542	Yes	37	
0.67	8 x 12	14 x 18	8 x 12	22	27	14	5	316	401	490	546	633	710	813	Yes	37	
1.00	8 x 18	14 x 24	8 x 18	22	39	14	5	475	601	735	820	949	1066	1220	Yes	46	
1.33	8 x 24	14 x 30	8 x 24	22	39	14	5	633	802	980	1093	1266	1421	1627	Yes	49	
1.67	8 x 30	14 x 36	8 x 30	22	51	14	5	791	1002	1225	1366	1582	1776	2033	Yes	57	
1.00	12 x 12	18 x 18	12 x 12	26	27	14	5	475	601	735	820	949	1066	1220	Yes	37	
1.50	12 x 18	18 x 24	12 x 18	26	39	14	5	712	902	1102	1229	1424	1598	1830	Yes	46	
2.00	12 x 24	18 x 30	12 x 24	28	39	14	5	949	1202	1470	1639	1899	2131	2440	Yes	49	
2.50	12 x 30	18 x 36	12 x 30	27	51	14	5	1187	1503	1837	2049	2374	2664	3050	Yes	57	
3.00	12 x 36	18 x 42	12 x 36	31	51	14	5	1424	1804	2205	2459	2848	3197	3660	Yes	63	
3.50	12 x 42	18 x 48	12 x 42	29	63	14	5	1662	2104	2572	2869	3323	3729	4270	Yes	73	
4.00	12 x 48	18 x 54	12 x 48	33	63	14	5	1899	2405	2939	3279	3798	4262	4880	Yes	79	
1.36	14 x 14	20 x 20	14 x 14	29	27	16	5	646	818	1000	1116	1292	1450	1660	Yes	43	
1.75	14 x 18	20 x 24	14 x 18	28	39	16	5	831	1052	1286	1434	1662	1865	2135	Yes	49	
2.33	14 x 24	20 x 30	14 x 24	32	39	16	5	1108	1403	1715	1913	2215	2486	2846	Yes	55	
2.92	14 x 30	20 x 36	14 x 30	30	51	16	5	1385	1753	2143	2391	2769	3108	3558	Yes	62	
3.50	14 x 36	20 x 42	14 x 36	36	51	16	5	1662	2104	2572	2869	3323	3729	4270	Yes	70	
4.08	14 x 42	20 x 48	14 x 42	33	63	16	5	1938	2455	3001	3347	3877	4351	4981	Yes	80	
4.67	14 x 48	20 x 54	14 x 48	38	63	16	5	2215	2806	3429	3825	4431	4972	5693	Yes	87	
5.25	14 x 54	20 x 60	14 x 54	36	75	16	5	2492	3156	3858	4303	4985	5594	6405	Yes	96	
1.78	16 x 16	22 x 22	16 x 16	30	39	16	5	844	1069	1306	1457	1688	1894	2169	Yes	52	
2.22	16 x 20	22 x 26	16 x 20	31	39	16	5	1055	1336	1633	1821	2110	2368	2711	Yes	54	
2.67	16 x 24	22 x 30	16 x 24	36	39	16	5	1266	1603	1960	2186	2532	2841	3253	Yes	60	
3.33	16 x 30	22 x 36	16 x 30	34	51	16	5	1582	2004	2450	2732	3165	3552	4066	Yes	68	
4.00	16 x 36	22 x 42	16 x 36	40	51	16	5	1899	2405	2939	3279	3798	4262	4880	Yes	76	
4.67	16 x 42	22 x 48	16 x 42	38	63	16	5	2215	2806	3429	3825	4431	4972	5693	Yes	87	
5.33	16 x 48	22 x 54	16 x 48	36	75	16	5	2532	3206	3919	4371	5064	5683	6506	Yes	95	
6.00	16 x 54	22 x 60	16 x 54	40	75	16	5	2848	3607	4409	4918	5697	6393	7320	Yes	104	
6.67	16 x 60	22 x 66	16 x 60	38	87	16	5	3165	4008	4899	5464	6330	7103	8133	Yes	129	
7.33	16 x 66	22 x 72	16 x 66	42	87	16	5	3481	4409	5389	6011	6963	7814	8946	Yes	136	
2.25	18 x 18	24 x 24	18 x 18	32	39	16	5	1068	1353	1653	1844	2136	2397	2745	Yes	55	
3.00	18 x 24	24 x 30	18 x 24	40	39	16	5	1424	1804	2205	2459	2848	3197	3660	Yes	64	
3.75	18 x 30	24 x 36	18 x 30	38	51	16	5	1780	2254	2756	3074	3560	3996	4575	Yes	73	
4.50	18 x 36	24 x 42	18 x 36	36	63	16	5	2136	2705	3307	3688	4272	4795	5490	Yes	83	
5.25	18 x 42	24 x 48	18 x 42	42	63	16	5	2492	3156	3858	4303	4985	5594	6405	Yes	92	
6.00	18 x 48	24 x 54	18 x 48	40	75	16	5	2848	3607	4409	4918	5697	6393	7320	Yes	101	
6.75	18 x 54	24 x 60	18 x 54	45	75	16	5	3204	4058	4960	5533	6409	7192	8235	Yes	111	
7.50	18 x 60	24 x 66	18 x 60	43	87	16	5	3560	4509	5511	6147	7121	7991	9149	Yes	136	
8.25	18 x 66	24 x 72	18 x 66	46	87	16	5	3916	4960	6063	6762	7833	8790	10064	Yes	145	
9.00	18 x 72	24 x 78	18 x 72	45	99	16	5	4272	5411	6614	7377	8545	9590	10979	Yes	155	
2.78	20 x 20	26 x 26	20 x 20	37	39	16	5	1319	1670	2041	2277	2637	2960	3389	Yes	61	
3.33	20 x 24	26 x 30	20 x 24	44	39	16	5	1582	2004	2450	2732	3165	3552	4066	Yes	69	
4.17	20 x 30	26 x 36	20 x 30	42	51	16	5	1978	2505	3062	3415	3956	4440	5083	Yes	77	
5.00	20 x 36	26 x 42	20 x 36	40	63	16	5	2374	3006	3674	4098	4747	5328	6100	Yes	89	
5.83	20 x 42	26 x 48	20 x 42	48	63	16	5	2769	3507	4287	4781	5538	6215	7116	Yes	98	
6.67	20 x 48	26 x 54	20 x 48	44	75	16	5	3165	4008	4899	5464	6330	7103	8133	Yes	107	
7.50	20 x 54	26 x 60	20 x 54	49	75	16	5	3560	4509	5511	6147	7121	7991	9149	Yes	117	
8.33	20 x 60	26 x 66	20 x 60	47	87	16	5	3956	5010	6124	6830	7912	8879	10166	Yes	143	
9.17	20 x 66	26 x 72	20 x 66	45	99	16	5	4352	5511	6736	7513	8703	9767	11183	Yes	154	
10.00	20 x 72	26 x 78	20 x 72	49	99	16	5	4747	6012	7349	8196	9494	10655	12199	Yes	162	
10.83	20 x 78	26 x 84	20 x 78	47	111	16	5	5143	6513	7961	8880	10286	11543	13216	Yes	194	
11.67	20 x 84	26 x 90	20 x 84	51	111	16	5	5538	7014	8573	9563	11077	12431	14232	Yes	203	



DRAWINGS SUPPORTING
CERTIFICATE OF
APPROPRIATENESS APPLICATION
TO THE CITY OF RALEIGH, NC

DRAWN BY: JGG
HVAC VENTS
DATE: 2 DEC 2019
PLOT TABLE
JGG 11x17-8

PROJECT: Heck-Andrews House Renovations
309 NORTH BLOUNT ST RALEIGH, NC 27601

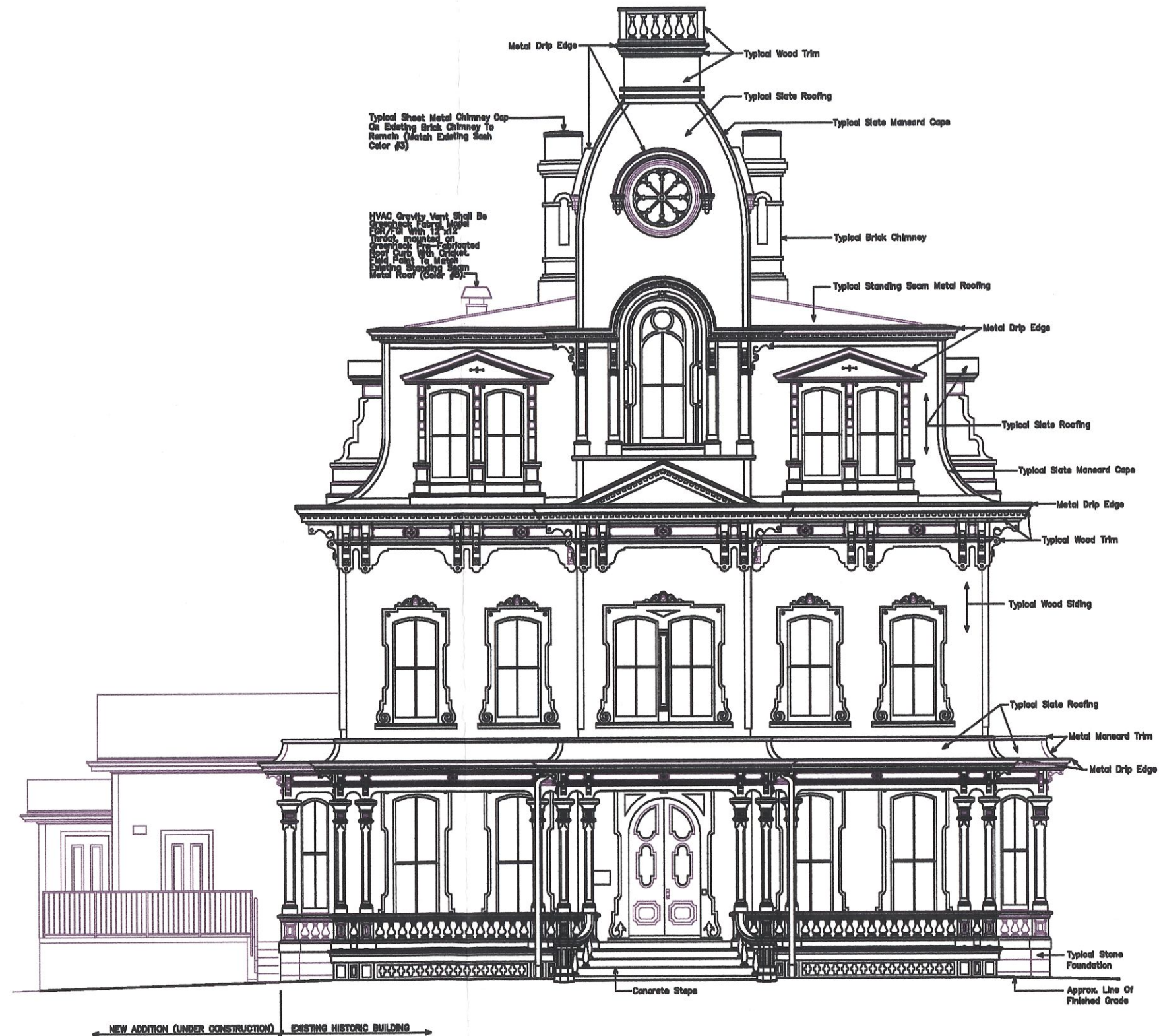
OWNER: North Carolina Association of Realtors

MAIN / TOWER ROOF PLAN- HVAC VENTS
SCALE : 1/8" = 1'-0"



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E-mail: jgm@jgarchitect.net

A-4



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DRAWN BY: JGG
HVAC VENTS
DATE: 2 DEC 2019
PEN TABLE:
Jgg 11m7-8

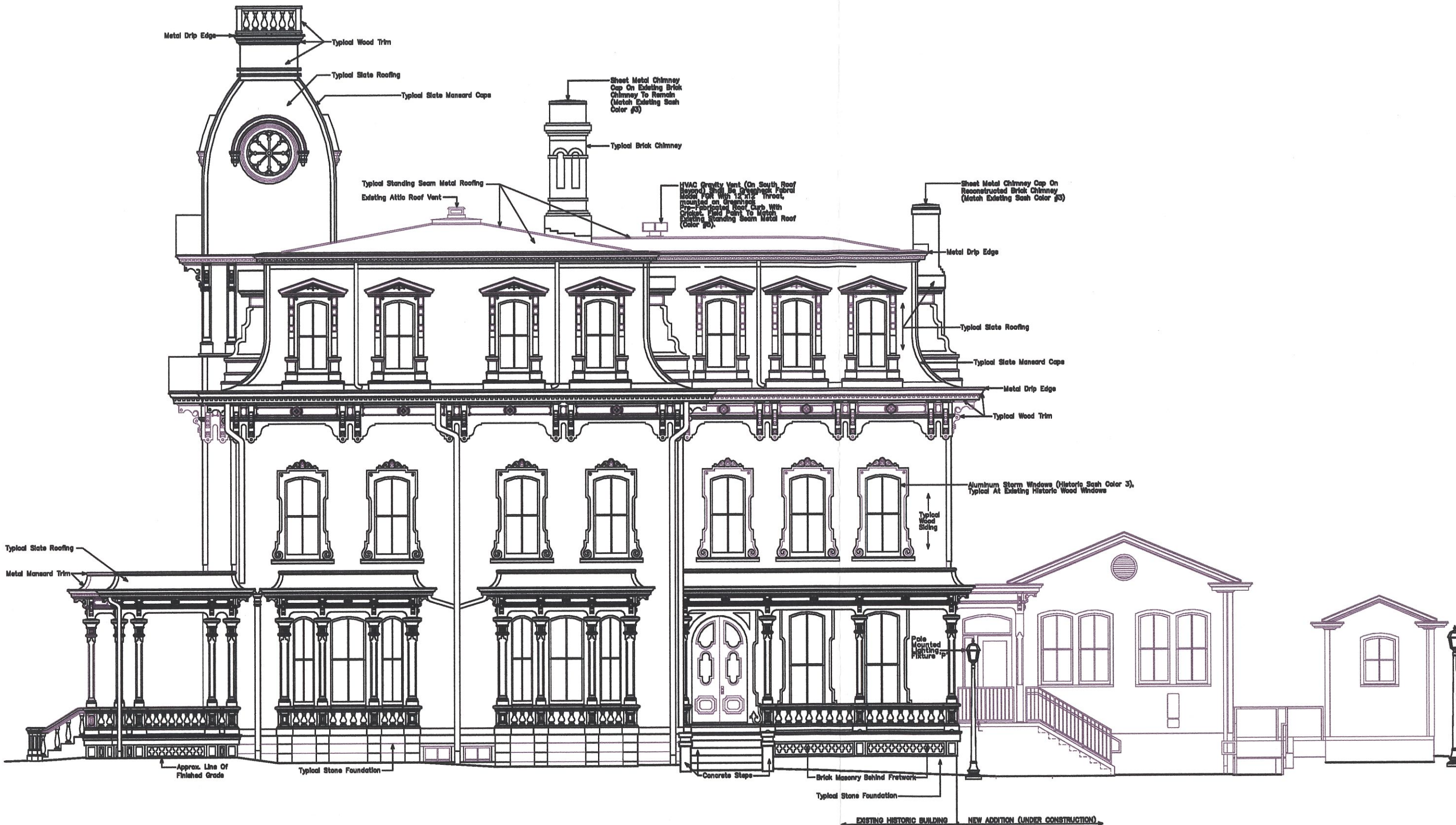
PROJECT: **Heck-Andrews House Renovations**
309 NORTH BLOUNT ST RALEIGH, NC 27601
OWNER: **North Carolina Association of Realtors**

EAST BUILDING ELEVATION- HVAC VENTS
SCALE : 1/8" = 1'-0"



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A-5



DRAWINGS SUPPORTING
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DRAWN BY: JGG
HVAC VENTS
DATE: 4 DEC 2010
PEN TABLE:
JGG 11x17-8

PROJECT: Heck-Andrews House Renovations
309 NORTH BLOUNT ST RALEIGH, NC 27601

OWNER: North Carolina Association of Realtors

NORTH BUILDING ELEVATION- HVAC VENTS
SCALE : 1/8" = 1'-0"



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