Docket Item # 2016-00042 BAR CASE # 2

BAR Meeting March 16, 2016

ISSUE:	Alterations
APPLICANT:	Virtue Feed and Grain
LOCATION:	106 South Union Street
ZONE:	CD / Commercial

### **STAFF RECOMMENDATION**

Staff recommends approval of the application, as submitted.

### **GENERAL NOTES TO THE APPLICANT**

- 1. ISSUANCE OF CERTIFICATES OF APPROPRIATENESS AND PERMITS TO DEMOLISH: Applicants must obtain a stamped copy of the Certificate of Appropriateness or Permit to Demolish PRIOR to applying for a building permit. Contact BAR Staff, Room 2100, City Hall, 703-746-3833, or preservation@alexandriava.gov for further information.
- 2. APPEAL OF DECISION: In accordance with the Zoning Ordinance, if the Board of Architectural Review denies or approves an application in whole or in part, the applicant or opponent may appeal the Board's decision to City Council on or before 14 days after the decision of the Board.
- 3. COMPLIANCE WITH BAR POLICIES: All materials must comply with the BAR's adopted policies unless otherwise specifically approved.
- 4. BUILDING PERMITS: Most projects approved by the Board of Architectural Review require the issuance of one or more construction permits by Building and Fire Code Administration (<u>including signs</u>). The applicant is responsible for obtaining all necessary construction permits after receiving Board of Architectural Review approval. Contact Code Administration, Room 4200, City Hall, 703-838-4360 for further information.
- 5. EXPIRATION OF APPROVALS NOTE: In accordance with Sections 10-106(B) and 10-206(B) of the Zoning Ordinance, any official Board of Architectural Review approval will expire 12 months from the date of issuance if the work is not commenced and diligently and substantially pursued by the end of that 12-month period.
- HISTORIC PROPERTY TAX CREDITS: Applicants performing extensive, certified rehabilitations of historic properties may separately be eligible for state and/or federal tax credits. Consult with the <u>Virginia</u> <u>Department of Historic Resources (VDHR)</u> prior to initiating any work to determine whether the proposed project may qualify for such credits.



# BAR2015-00042

## I. <u>ISSUE</u>

The applicant is requesting approval to replace an existing window with an air intake louver on the north elevation. The proposed louver will be located within the existing window opening and frame and painted "satin black", similar to the trim color on the building.

The applicant is also requesting BAR approval to amend the previously approved alterations for the construction of a raised wood deck with a steel and glass canopy in the Wales Alley right-of-way. Although the rest of the project was completed, as approved, the applicant never constructed those two features because of outside legal challenges to the City's ownership and use of the alley, now resolved. During this period the applicant provided moveable outdoor dining tables, chairs and umbrellas and movable planters in Wales Alley. A final Certificate of Occupancy for the building has not been issued because the deck and canopies are so integral to the previously approved design, and the applicant is now asking the BAR to approve the project, as constructed, without those key elements.



Figure 1. Previously approved scheme for deck and canopy on north elevation in Wales Alley.

## II. <u>HISTORY</u>

The existing two-story rectangular brick warehouse at 106 South Union Street was constructed between **1912 and 1921** according to Sanborn Fire Insurance Maps. In 2005, a very brief Historic Structures Report for 106 South Union Street was written by Derek Manning. According to this report, the warehouse and store at 106 South Union Street was constructed in 1916 by the Hunt and Roberts Feed and Grain Company. Prior to the construction of the existing building, earlier Sanborn Fire Insurance Maps, the G. M. Hopkins City Atlas of Alexandria from 1877, and 19th century deed and tax records depict a warehouse with a similar footprint at this location. In 1962, the building was sold and converted into a retail establishment, a use which continued until Olson's Books vacated the property several years ago. In 2010, the building was converted into the current restaurant (BAR Case #2010-00171, 00172, & 00173, 7/21/10).

Despite numerous alterations over time, the existing early 20th century brick warehouse building retains a significant degree of historic integrity in regard to location, design, setting, materials, workmanship, feeling and association and is one of the few remaining buildings representing the historic industrial character of Alexandria's early 20th century waterfront.

Wales Alley is representative of the historic mid-block alley patterns along the waterfront. The alleys served as drainage swales for the large warehouse roofs as well as fire separation from other warehouses. The *G. M. Hopkins City Atlas of Alexandria* from 1877 illustrates the many alleys amid the warehouses that ran east/west from Union Street to The Strand.

## III. <u>ANALYSIS</u>

The *Design Guidelines* state that exhaust and supply fans should not obscure or remove architectural details, should be located inconspicuously and appropriately painted so as not to become a predominant feature of the façade. This particular building has three primary elevations due to its location adjacent to three public streets or alleys, therefore the areas to locate the louver are somewhat limited. Staff finds the proposed conversion of an existing window to a louver to be appropriate and particularly consistent with the character of a warehouse building. The warehouse building has been altered many times and the masonry opening is not being disturbed, so it is an easily reversible change. **Staff recommends approval of the louver as submitted.** 

Regarding the change in scope from the previous approval of the deck and glass canopies to remove them from the overall project scope, staff supports this change. While the design for these elements approved by the BAR in 2010 was well designed and appropriately detailed, staff finds that *not* having a more permanent physical structure such as a deck in Wales Alley is preferable. The Google Streetview image in Figure 2 shows the current, more open condition. By locating the tables, chairs, umbrellas, planters and other outdoor dining elements, all easily moveable and without a more permanent structure in the alley, it better conveys the sense of this space as a historic through-block alley to the waterfront.

This particular proposal for the deck and glass canopy was presented prior to the BAR's review of a number of other waterfront redevelopment proposals such as the hotel at 220 South Union Street and the Robinson Landing mixed-use project at 2 Duke Street, all of which emphasized and incorporated through-block east-west alleys to connect Union Street to the water, as recommended in the Waterfront Plan. In the future, this will also enhance the view to the future waterfront park. Therefore, staff strongly supports not constructing the deck and glass canopy. However, it may be appropriate in the future to consider other elements, such as additional umbrellas or retractable awnings over the alley that are not permanent and maintain the through-block alley view and configuration when not in use.



Figure 2. View of Virtue (right side) and outdoor dining configuration in Wales Alley, looking east to Potomac River.

## **STAFF**

Catherine K. Miliaras, Historic Preservation Planner, Planning & Zoning Al Cox, FAIA, Historic Preservation Manager, Planning & Zoning

## IV. <u>CITY DEPARTMENT COMMENTS</u>

Legend: C- code requirement R- recommendation S- suggestion F- finding

### **Zoning Comments**

C-1 Proposed intake louver complies with zoning.

### **Code Administration**

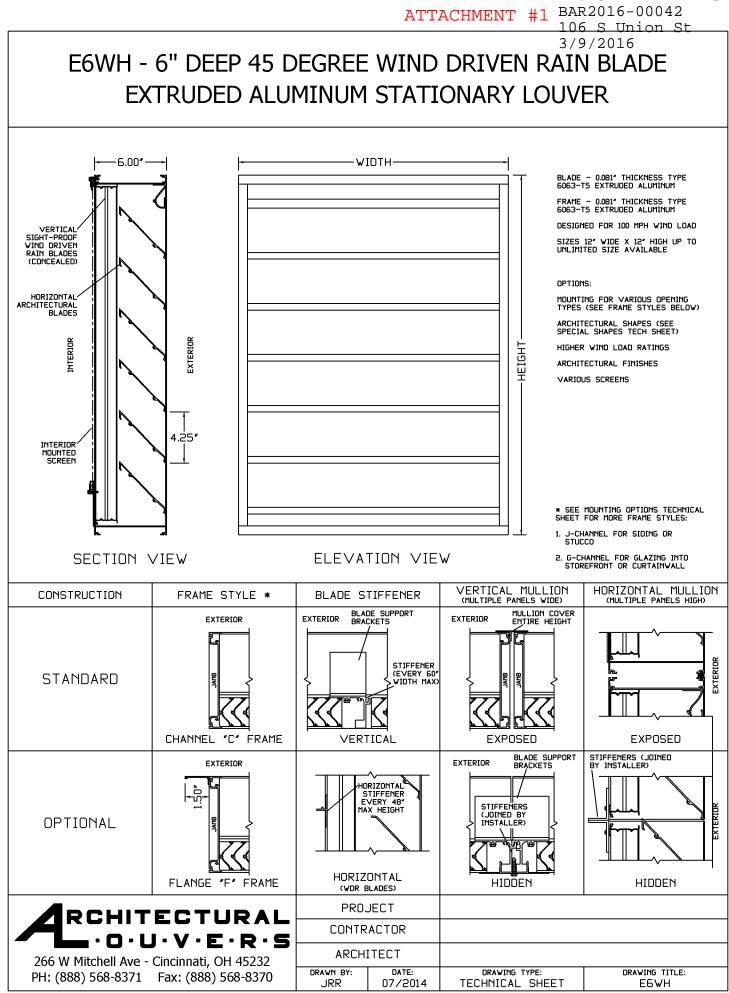
C-1 A building permit will be required for proposed alterations.

### **Transportation and Environmental Services**

No comments received.

## V. ATTACHMENTS

- 1 Supplemental Materials
- 2 Application for BAR 2016-00042: 106 South Union Street



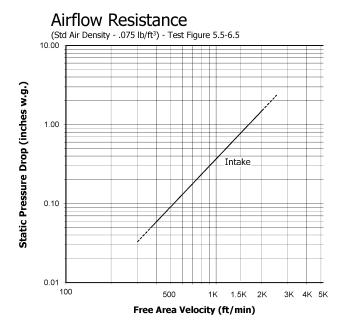
REVISED MATERIALS

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## Louver Performance Data



The Architectural Louvers Model E6WH is tested in accordance with AMCA 500-L Laboratory Methods of Testing Air Louvers for Rating. The data presented are the results of these tests. Tested louver size is 48" wide x 48" high (unless noted otherwise) and does not include the effects of bird screen.





Architectural Louvers certifies that model E6WH louver shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and wind driven rain ratings only.

Model: E6WH resistance to airflow Free area velocities (shown left) are higher than average core, face or duct velocity. See louver application information.

Wind Driven Rain Test per AMCA Standard 500-L-99, Figure 5.11 Setup Performance.
Test Louver Size 40.87" W x 40.87" H (1m x 1m Core Size).

]						Water	Water
	Wind	Rain Fall	Core		Louver	Penetration	Penetration
	Velocity	Rate	Velocity	Airflow	Free Area Velocity	Effectiveness	Classification
	(mph)	(in. / hour)	(fpm)	(cfm)	(fpm)	(Percentage)	Rating
	29	3	0	0	0	100.0	A
"C 1 3"	29	3	132	1417	249	100.0	Α
and	29	3	197	2117	372	100.0	Α
e it	29	3	287	3092	544	100.0	Α
29 MPH Wind Velocity Rainfall Rate	29	3	380	4092	720	100.0	Α
la Ke	29	3	472	5083	894	100.0	Α
/inc	29	3	587	6317	1111	99.9	Α
≤ 22 T	29	3	680	7323	1288	99.9	Α
ΠP	29	3	780	8397	1477	99.9	Α
59 1	29	3	865	9309	1637	97.8	В
	29	3	991	10666	1876	82.1	С
_	50	8	0	0	0	100.0	Α
18 1	50	8	96	1028	181	100.0	Α
and	50	8	194	2093	368	100.0	Α
fe Cit	50	8	284	3055	537	100.0	Α
Rai	50	8	400	4312	758	100.0	Α
i ke	50	8	496	5341	939	100.0	Α
Wind Velocit Rainfall Rate	50	8	571	6145	1081	100.0	Α
≤ 22 T	50	8	679	7311	1286	99.8	Α
MP	50	8	786	8459	1488	98.6	В
50 MPH Wind Velocity Rainfall Rate	50	8	878	9452	1662	91.2	С
	50	8	974	10482	1843	70.3	D

The discharge loss coefficient class for louver E6WH is 3. The higher the coefficient, the lower the resistance to airflow.

Class	1	2	3	4
Discharge Loss Coefficient	.4 and Above	.3 to .399	.2 to .299	.199 and below

Louver Application Guide



Application of any louver involves selecting an airflow velocity through the louver free area (free area velocity in fpm) that produces an acceptable pressure drop and for intake applications and minimizes carry-over of normally occurring rain. Architectural Louvers does not warrant our louvers to prevent water penetration under all combinations of wind and rain. 99% water resistance effectiveness during testing through Model E6WH ends at 1286 fpm free area velocity. Louver selection using a free area velocity below 1286 fpm is recommended. Louver selection involves the following steps, and depending on the information provided, either step may come first.

### Select Free Area Velocity - Fan Forced Intake:

Using the Airflow Resistance Chart, select a free area velocity that produces an acceptable pressure drop with minimal water penetration. (Water penetration may not need to be considered when selecting exhaust louvers.)

#### **Determine Louver Free Area:**

Using the free area velocity from previous step and total cfm, determine the louver Free Area required. Using louver Free Area Chart, select a louver with the required free area. If louver size is given, determine free area from chart and work backwards to determine maximum airflow. See examples below.

		Louver Width (Inches)							
		12	24	36	48	60	72	84	96
	12	0.25	0.56	0.88	1.19	1.50	1.75	2.05	2.35
s)	24	0.75	1.67	2.60	3.52	4.44	5.31	6.22	7.13
Height (Inches)	36	1.25	2.78	4.32	5.85	7.39	8.87	10.39	11.92
ht (I	48	1.74	3.89	6.04	8.19	10.34	12.42	14.56	16.70
	60	2.24	5.00	7.76	10.52	13.28	15.98	18.73	21.48
Louver	72	2.74	6.11	9.48	12.86	16.23	19.54	22.90	26.26
Γo	84	3.24	7.22	11.20	15.19	19.17	23.10	27.07	31.05
	96	3.73	8.33	12.93	17.52	22.12	26.66	31.24	35.83

# Free Area Chart (ft<sup>2</sup>)

### Louver Selection Examples - Fan Forced Intake:

#### Example 1:

Airflow given as 6000 cfm – select louver size.

A. Determine louver free area by dividing airflow by free area velocity (do not exceed 1286 fpm on intake louver applications).

> cfm / fpm =  $ft^2$ 6000 / 1286 = 4.67

B. Select a louver with at least the required louver free area from Free Area Chart above.

 Width
 x
 Height
 Free
 Area from
 Chart

 36
 x
 48
 6.04

 (Other selections available – See
 Free
 Area Chart above)

C. Calculate Free Area Velocity

fpm = cfm / ft<sup>2</sup> free area of louver 993 = 6000 / 6.04

D. Check the pressure drop of the selected louver at the calculated airflow (Airflow Resistance Chart on Page 2).

in w.g. = 0.363 at 993 fpm free area velocity

#### Example 2:

Louver size given as 96 W x 48 H – determine maximum airflow.

A. Use Free Area Chart to obtain ft<sup>2</sup> for given size

Free Area = 16.7 sq ft

B. Multiply Free Area x Free Area Velocity (Do not exceed 1286 fpm on intake louver applications).

ft² x	fpm	= cfm
16.7 x	1286	= 21474

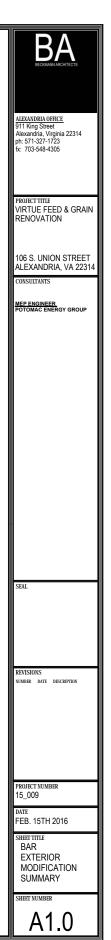
C. Check the pressure drop of the selected louver at the calculated airflow (Airflow Resistance Chart on Page 2).

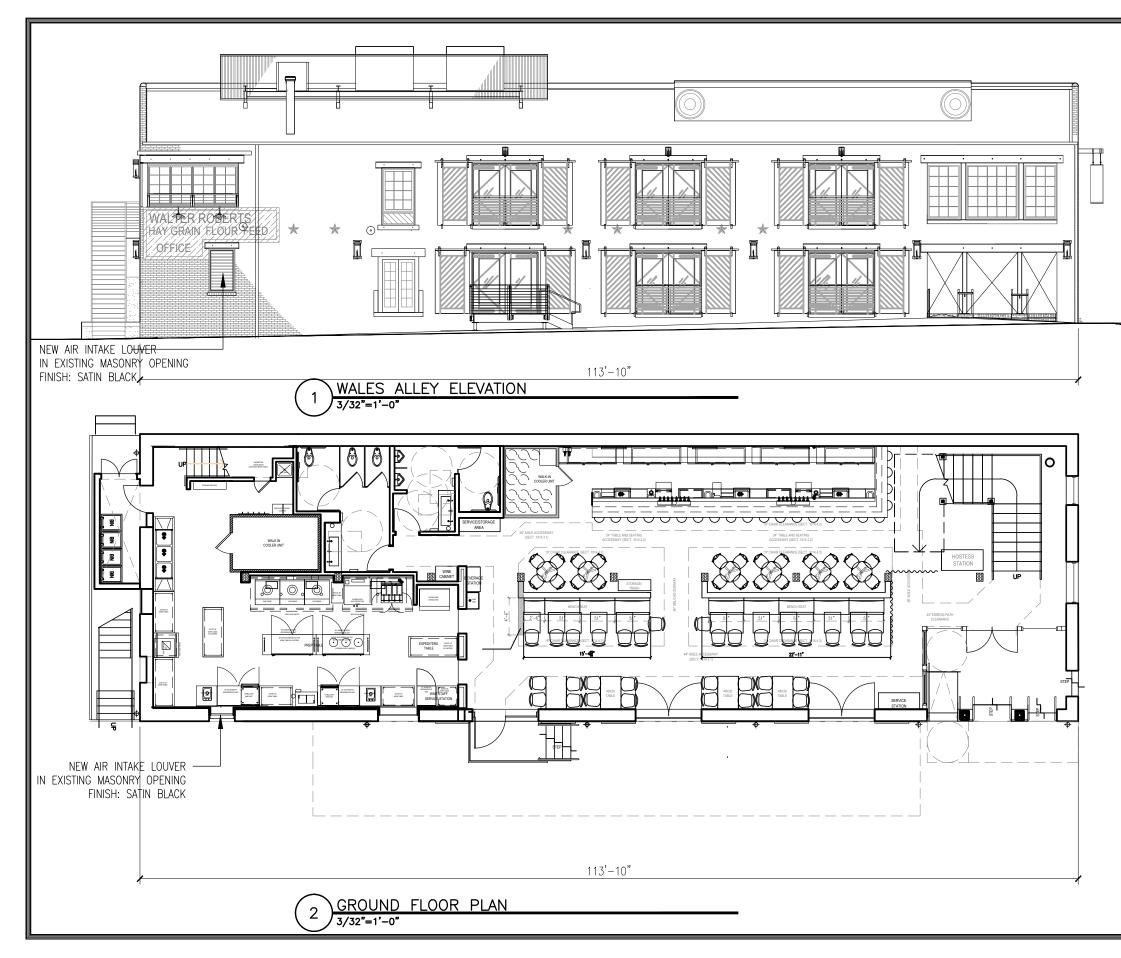
in w.g. = 0.608 at 1286 fpm free area velocity

REVISED MATERIALS BAR2016-00042 106 S Union St 3/9/2016

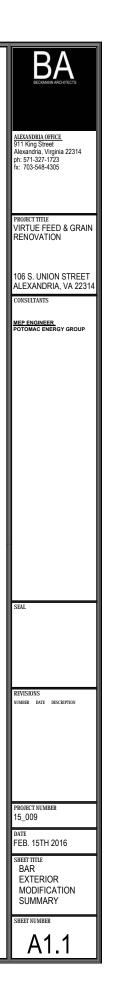


REVISED MATERIALS BAR2016-00042 106 S Union St 3/9/2016





REVISED MATERIALS BAR2016-00042 106 S Union St 3/9/2016



ATTACHMENT #2

BAR Case # 0015-00042

ADDRESS OF PROJECT: 106 SOU	TH UNION STREET
TAX MAP AND PARCEL: 075.01-05	5-05 ZONING: CD
APPLICATION FOR: (Please check all that	apply)
	NESS
PERMIT TO MOVE, REMOVE, ENC (Required if more than 25 square feet of a st	
WAIVER OF VISION CLEARANCE CLEARANCE AREA (Section 7-802, A	REQUIREMENT and/or YARD REQUIREMENTS IN A VISION Alexandria 1992 Zoning Ordinance)
WAIVER OF ROOFTOP HVAC SCF (Section 6-403(B)(3), Alexandria 1992 Zonin	
Applicant: Property Owner	Business (Please provide business name & contact person)
Name: VIRTUE FEED AND GRA	IN , DAVID NICHOLAS
Address: 106 SOUTH UNION STR	REET
City: ALEXANDRIA	State: VA Zip: 22314
Phone: <u>571-970-3669</u>	E-mail: dave@chaorestaurants.com
Authorized Agent (if applicable):	ttorney 🔀 Architect 🗌
Name: PAUL BECKMANN	Phone: 571-327-1723
E-mail: PBECKMANN@BECK-A	RCH.COM
Legal Property Owner:	
Name: 106 UNION IRELAND LLC	
Address: 118 KING STREET, 2ND	FL
	State: VA Zip: 22314
Phone:	E-mail:
Yes X No If yes, has the easeme Yes X No Is there a homeowner	servation easement on this property? ont holder agreed to the proposed alterations? s association for this property? vner's association approved the proposed alterations?

If you answered yes to any of the above, please attach a copy of the letter approving the project.

BAR Case # 2015-00042

NATURE OF PROPOSED WORK: Please check all that apply

	NEW CONSTRUCTIO	)N TON: Please check all that apj	niv.	
100				
	🔀 awning	fence, gate or garden wall	HVAC equipment	shutters
	doors	X windows	Siding	Shed
	🔲 lighting	pergola/trellis	painting unpainted masonry	
	other		с, разло у алерание спасание,	
	ADDITION			
	DEMOLITION/ENCAP	SULATION		
F	SIGNAGE			
	GIGINAGE			

**DESCRIPTION OF PROPOSED WORK:** Please describe the proposed work in detail (Additional pages may be attached).

1. ADDITION OF 3 RETRACTABLE AWNINGS ON NORTH FACADE ALONG WALES ALLEY TO EXTEND OVER EXISTING OUTDOOR SEATING AREA.

2. REPLACEMENT OF EXISTING WINDOW AT NORTH FACADE AT EAST END WITH AN AIR INTAKE LOUVER FOR KITCHEN AIR CIRCULATION. NO MODIFICATIONS TO THE EXISTING MASONRY OPENING ARE PROPOSED.

### SUBMITTAL REQUIREMENTS:

Items listed below comprise the **minimum supporting materials** for BAR applications. Staff may request additional information during application review. Please refer to the relevant section of the *Design Guidelines* for further information on appropriate treatments.

Applicants must use the checklist below to ensure the application is complete. Include all information and material that are necessary to thoroughly describe the project. Incomplete applications will delay the docketing of the application for review. Pre-application meetings are required for all proposed additions. All applicants are encouraged to meet with staff prior to submission of a completed application.

Electronic copies of submission materials should be submitted whenever possible.

**Demolition/Encapsulation :** All applicants requesting 25 square feet or more of demolition/encapsulation must complete this section. Check N/A if an item in this section does not apply to your project.

	N/A
	$\square$
Ē	

- Survey plat showing the extent of the proposed demolition/encapsulation.
- Existing elevation drawings clearly showing all elements proposed for demolition/encapsulation.

Clear and labeled photographs of all elevations of the building if the entire structure is proposed to be demolished.

Description of the reason for demolition/encapsulation.

Description of the alternatives to demolition/encapsulation and why such alternatives are not considered feasible.

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Additions & New Construction: Drawings must be to scale and should not exceed 11" x 17" unless approved by staff. All plans must be folded and collated into 3 complete 8 1/2" x 11" sets. Additional copies may be requested by staff for large-scale development projects or projects fronting Washington Street. Check N/A if an item in this section does not apply to your project.

	Scaled survey plat showing dimensions of lot and location of existing building and other structures on the lot, location of proposed structure or addition, dimensions of existing structure(s), proposed addition or new construction, and all exterior, ground and roof mounted equipment.
	FAR & Open Space calculation form.
$\Box$	Clear and labeled photographs of the site, surrounding properties and existing structures, if
	applicable.

- Existing elevations must be scaled and include dimensions.
- Proposed elevations must be scaled and include dimensions. Include the relationship to adjacent structures in plan and elevations.
- Materials and colors to be used must be specified and delineated on the drawings. Actual samples may be provided or required.
- Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- For development site plan projects, a model showing mass relationships to adjacent properties and structures.

**Signs & Awnings:** One sign per building under one square foot does not require BAR approval unless illuminated. All other signs including window signs require BAR approval. Check N/A if an item in this section does not apply to your project.

	N/A	112110"
X		Linear feet of building: Front: 113'-10" Secondary front (if corner lot):
	X	Square feet of existing signs to remain:
		Photograph of building showing existing conditions.
		Dimensioned drawings of proposed sign identifying materials, color, lettering style and text.
		Location of sign (show exact location on building including the height above sidewalk).
		Means of attachment (drawing or manufacturer's cut sheet of bracket if applicable).
	X	Description of lighting (if applicable). Include manufacturer's cut sheet for any new lighting
		fixtures and information detailing how it will be attached to the building's facade.

Alterations: Check N/A if an item in this section does not apply to your project.

- N/A Clear and labeled photographs of the site, especially the area being impacted by the alterations, all sides of the building and any pertinent details.
- Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- Drawings accurately representing the changes to the proposed structure, including materials and overall dimensions. Drawings must be to scale.
- An official survey plat showing the proposed locations of HVAC units, fences, and sheds.
- Historic elevations or photographs should accompany any request to return a structure to an earlier appearance.

ALL APPLICATIONS: Please read and check that you have read and understand the following items:

- I have submitted a filing fee with this application. (Checks should be made payable to the City of Alexandria. Please contact staff for assistance in determining the appropriate fee.)
- I understand the notice requirements and will return a copy of the three respective notice forms to BAR staff at least five days prior to the hearing. If I am unsure to whom I should send notice I will contact Planning and Zoning staff for assistance in identifying adjacent parcels.
- I, the applicant, or an authorized representative will be present at the public hearing.
- I understand that any revisions to this initial application submission (including applications deferred for restudy) must be accompanied by the BAR Supplemental form and 3 sets of revised materials.

The undersigned hereby attests that all of the information herein provided including the site plan, building elevations, prospective drawings of the project, and written descriptive information are true, correct and accurate. The undersigned further understands that, should such information be found incorrect, any action taken by the Board based on such information may be invalidated. The undersigned also hereby grants the City of Alexandria permission to post placard notice as required by Article XI, Division A, Section 11-301(B) of the 1992 Alexandria City Zoning Ordinance, on the property which is the subject of this application. The undersigned also hereby authorizes the City staff and members of the BAR to inspect this site as necessary in the course of research and evaluating the application. The applicant, if other than the property owner, also attests that he/she has obtained permission from the property owner to make this application.

### APPLICANT OR AUTHORIZED AGENT:

Signature:		
Printed Name:	PAUL BECKMANN, AIA	
Date: 02-16	6-2016	