

Beaufort County Historic Preservation Review Board Meeting

Chairman

Natalie Harvey

Vice Chairman

Katrina Epps

Board Members

Kathryn Mixon Sally Murphy Cheryl Steele Katherine Pringle Aileen LeBlanc

County Administrator

JOHN ROBINSON

Staff Support

ROBERT MERCHANT KRISTEN FORBUS

Administration Building

Beaufort County Government Robert Smalls Complex 100 Ribaut Road

Contact

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Beaufort, South Carolina 29901-1228
(843) 255-2147
www.beaufortcountysc.gov

Historic Preservation Review Board Agenda

Thursday, January 18, 2024 at 1:00 PM

Executive Conference Room, Administration Building Robert Smalls Complex, 100 Ribaut Road, Beaufort

- 1. CALL TO ORDER
- PLEDGE OF ALLEGIANCE
- 3. FOIA PUBLIC NOTIFICATION OF THIS MEETING HAS BEEN PUBLISHED, POSTED, AND DISTRIBUTED IN COMPLIANCE WITH THE SOUTH CAROLINA FREEDOM OF INFORMATION ACT
- 4. APPROVAL OF MINUTES October 19, 2023
- 5. CITIZEN COMMENTS (Comments are limited to 3 minutes.)

ACTION ITEMS

- 6. CONSIDERATION OF CASTLE HILL PLANTATION ALTERATIONS
- 7. ADJOURNMENT

Minutes

Historic Preservation Review Board October 19, 2023, 1:00 p.m.

Executive Conference Room, Administration Building

CALL TO ORDER:

Ms. Natalie Harvey, Chairman, called the meeting to order at 1:15 p.m.

MEMBERS PRESENT:

Natalie Harvey, Chairman Katrina Epps, Vice Chairman Aileen LeBlanc Sally Murphy Katherine Pringle Cheryl Steele

MEMBERS ABSENT:

Kathryn Mixon

STAFF PRESENT:

Kristen Forbus, Beaufort County Planning and Zoning Long Range Planner

PUBLIC COMMENT (non-agenda items):

None.

MINUTES:

Ms. Sally Murphy asked to have the September 18, 2022 meeting minutes approved, Ms. Katherine Pringle seconded. The Board members unanimously approved the minutes as submitted.

Consideration of Haig's Point Oil House Alterations

Mr. Geoff Brunning presented the Haig Point Oil House and stated that he has consulted with the state and will be working with Jeff Fagan. Mr. Jeff Fagan presented the existing conditions which include a settled front corner, a limewash, interior cement mixture, and cedar shakes. He then presented the proposed work of excavating the front corner, a possible concrete footing strip, removal of brick that is to be saved and reinstalled with Daufuskie Island sand and lime wash, and removal and replacement of roof for an aluminum option. The new roof is to have a crimping style with staggered panels to look like the original. It is presumed that the original

probably was made of "turn roof" factory panels with a red lead coating on steal/tin. The door is not original and is to be replaced. The hardware, however, is the original and will be kept. Ms. Murphy asked more questions regarding the proposed limewash. Mr. Fagan explained that there will be limewash in just one area inside of the oil house to display what it would have looked like new and there would be a side without limewash. Mr. Brunning went on to state that there will be signage inside the Oil House to explain this further.

Discussion began regarding Parris Island's Oil House renovation that occurred in 2005. Differences between the two oil houses and the proposed changes were noted.

Mr. Katrina Epps stated that any excavation findings during the renovation process is to be recorded with the State.

Ms. Murphy motioned to approve. Ms. Aileen LeBlanc commented that the applicant is to reference the study done to the Parris Island Oil House when performing investigative work. Ms. Murphy suggested that maybe Parris Island's case is not compatible. Mr. Fagan explained that he will review the research done for the Parris Island Oil House.

Ms. Murphy motioned to approve with the condition that the applicant reviews the Parris Island Oil House 2005 restoration and responds in writing to the HPRB that the proposed alterations are not contrary to the Parris Island Oil House review. Ms. LeBlanc seconded the motion. The motion passed unanimously.

Ms. Epps motioned to adjourn. Ms. LeBlance seconded the motion. The motion passed unanimously. Ms. Natalie Harvey adjourned the meeting at 1:54 PM.



CERTIFICATE OF APPROPRIATENESS APPLICATION

Beaufort County Planning and Zoning Multi Government Center 100 Ribaut Road, Beaufort, South Carolina, 29902 OFFICE (843) 255-2147

	Staff Review
	Board Review
Ou	tcome:

OFFICE USE ONLY:	Date Filed:	Application #:	Zoning District:
BCAGHR Survey:	□ Yes □ No	SHC Survey:	□ Yes □ No
		, , , , ,	pically meets the 3 rd Thursday of each month at ortcountysc.gov/historic-preservation-board/
Submittal Require	ements: All forms	and information shall be s	submitted digitally. In addition to a complete application
form, applicants shall	l submit the required	d items according to the c	checklists on the subsequent page.
Nature of the Rec	quest: 🛛 Alter	ation/Addition	☐ New Construction
	□ Dem	olition/Relocation	☐ Change after Certification
is contrary to, conflic	ts with, or prohibits		is this tract or parcel restricted by any recorded covenant the this application? Yes No sapplication.
Applicant, Proper	ty, and Project Ir	nformation	
Applicant Name:	lichael Frederich	k, Frederick + Freder	rick Architects
Applicant Address:	38 Meridian R	load, Beaufort, SC 2	29907
Applicant E-mail: r	nichael@f-farchi	tects.com Ap	pplicant Phone Number: 843-522-8422
Applicant Title:	☐ Homeowner	☐ Tenant	t □ Engineer □ Developer
Owner (if other than t	he Applicant): Liv	ia Basso	
Owner Address: 331	Castle Hall Roa	d, Yemassee, SC	
Project Name: Cast	tle Hill Plantation	1	
Property Address:	331 Castle Hall	Road, Yemassee, S0	C
Property Identification	n Number (Tax Map &	& Parcel Number): R700	0 006 000 0001 0000
Date Submitted: 1/3	3/2024		
Certification of Co	orrectness: I/we	certify that the informat	tion in this application is correct.
Applicant's Signature	1 HZ	•	Date: 01/03/2024
Owner's Signature:	Lui Do	250	Date: 01/03/2024
The owner's signatu	te is required if the	applicant is not the owner	ser \



CERTIFICATE OF APPROPRIATENESS APPLICATION

Beaufort County Planning and Zoning Multi Government Center 100 Ribaut Road, Beaufort, South Carolina, 29902 OFFICE (843) 255-2147

☐ Staff I	Review
☐ Board	Review
Outcome	:

Project Name: Castle Hill Plantation	1	
Property Size in Acres: 1784.00	Proposed Building Use:	Single family home
Nature of Work (check all that apply):		
☐ New Construction	☑ Repair / Restoration	☑ Alterations / Additions
☐ Demolition	☐ Relocation	☐ Site Work
Building Square Footage (if multiple bu 6,825	uildings, please list each one and	their square footage by floor):
ls this project an adaptive reuse project	t: Y N (See Section	5.10.80 for more information)
Are there existing buildings on the site?	? V N if yes, will th	ney remain?
rovide a complete description of propo nd work on outbuildings:	osed work, including the reason	
rovide a complete description of propo	osed work, including the reason	
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CONTACT INFORMATION

Attention: Rob Merchant, Planning & Zoning Director

Beaufort County Planning & Zoning Department

100 Ribaut Road, Beaufort, South Carolina 29902

E-Mail: robm@bcgov.net | Phone: (843) 255-2148 | Fax: (843) 255-9432

REVISED SEPTEMBER 2, 2022

HISTORIC PRESERVATION REVIEW BOARD CERTIFICATE OF APPROPRIATENESS

Application Requirements

The Beaufort County Community Development Code applies to all projects. Division 5.10 details information about historic preservation standards in Beaufort County. Section 7.2.120 outlines the process for applying for a Certificate of Appropriateness.

Please use the checklist below to submit a complete application packet. Application packets are due by noon 20 business days prior to the scheduled meeting date. The Beaufort County Historic Preservation Review Board meets every third Thursday of the month.

NOTE 1: Applications will not be considered complete until all the required items have been submitted. Incomplete applications will not be placed on the agenda. Applications must be submitted by noon 20 business days prior to the scheduled meeting date.

NOTE 2: If a New Construction project also requires major demolition a separate application is required. (Refer to the Checklist for Demolition on last page).

NOTE 3: Applications are to be compiled in the order in which the applicant plans to present the application to the Board during the meeting.

Submission Requirements for New Construction and Alterations or Additions

Please submit DIGITAL FILES ONLY via email to: robm@bcgov.net

*Submittals should show existing and proposed conditions. Architectural drawings should show and clearly label existing conditions and the current proposed plans.

*This Application Requirements Checklist MUST be included in applications, with submitted items checked.

V	Existing Context: Color photographs of the existing structure and the adjacent structures.
	Plat: A plat indicating the tax map and parcel number, existing structure(s), setbacks, existing trees, and proposed
	construction footprint.
V	Site Plan: A site plan, to scale, indicating the location of the existing structure on the lot, proposed new
	structure, any site modifications (parking, paths, landscaping, tree removal, etc), any new or existing
	mechanical equipment and screening area, and percentage of the total impervious paving. The plan should also
	include any connections to the public right of way (street and/or sidewalk), and grade elevations of the street
	and/or sidewalk and the proposed construction at the first floor.
\checkmark	Design: One or more drawings that convey the intent of the proposal. This may include floor plans, elevations,
	and building sections. They should display massing and scale of new construction and how it relates to the
	existing structure or surrounding context. For new construction and additions, this drawing should include a
	street elevation and/or a street section showing height and width relationships to existing adjacent buildings.
	3-D Rendering: A 3-D rendering, or physical scale model, showing the height, mass and scale of the
	proposed building in its context is required for all structures except single-family and 2-3 unit residential
	buildings.
	Pre-Application Conference: A Pre-application conference is required for all commercial new construction
	and substantial commercial renovation projects. The requirement for an Archeological Impact Assessment will
□ •	be determined at this meeting
√1	Elevations: Elevation drawings of all sides of the building, including heights – height above grade, floor-to-
	floor heights, eave height and ridge height (if applicable). For Alterations or Additions, existing conditions
⊏ / 1	drawings of all four elevations are also required.
Ø	Color Rendering: A colored version of at least one elevation, noting proposed materials and colors.
	Additional on-site representation, such as a height story pole, and corner staking of the foundation, may be required.
	A Certified Arborist report may be required if specimen or grand trees are affected by the project.
Z	Details: A typical wall section(s), window details, door details, eave details, porch details, and any other
•	details characteristic to the building are required.
V	Material Samples and Cut Sheets: Applicant to submit cut sheets for all exterior building materials, to include
	roof and typical roof details, doors, windows, dryer vents, exterior lighting, etc. Samples of windows, lighting and
	building materials may be required at Staff's discretion.
V	Final Materials List: A final list, including colors, is required.

Submission Requirements for Change After Certification

Please submit DIGITAL FILES ONLY via email to: robm@bcgov.net

Change After Certification

Copy of Certificate of Appropriateness received with previous approval.
Previously Approved Drawings: Applicant to submit complete set of previously approved documents. Current
proposed documents to be interlaced between previously approved documents and must be formatted to match
previously approved. For example, previously approved elevations should be followed by current proposed.
Drawings to be clearly noted as "Previously Approved" or "Current Proposed", and all proposed revisions in the
current proposed drawings must be clouded and noted.

Submission Requirements for Demolition or Relocation

Please submit DIGITAL FILES ONLY via email to: robm@bcgov.net

ш	A written statement describing the history of the architectural significance of the structure to be
	demolished, the structural or physical condition of the structure, and the proposed use of the site
	after demolition or relocation. The statement should also include any recent attempt(s) to sell the
	property or move the structure. A recent appraisal with comparisons is strongly encouraged. You
	may refer to The Beaufort County Above Ground Resources Survey of 1997 or consult county staff or
	historic foundations for verification of the date of construction and historic information.
	Tax map or plat showing the location of the property
	Color photographs of all sides of the structure.
	Color photographs of adjoining properties.
	A written report by an engineer, regarding the structural condition of the building, is required if
	the reason for demolition is related to the structural integrity of the building.

Castle Hill Plantation



Presentation to

The Historic Preservation Review Board

Beaufort County Planning and Zoning Commission

January 3, 2024

Historical Context and Architectural History

Castle Hill Plantation was established by Dr. James Cuthbert sometime after his immigration to the Carolinas in 1737. The Cuthbert family retained ownership of the property until around 1838, when it was sold to Nathaniel Heyward. The plantation was sold again in 1849 to Colonel John Screven, who died in 1903. The house of these 19th Century inhabitants was lost to fire in the early 1900's and the design of that original building is unknown. (Cuthbert & Hoffius, 2009)

The property consists of 1,784 acres and is located in Yemassee, SC. There is a large pond, wetlands and old rice fields, and many native plants and animals.

The property was purchased in 1929 by Blair S. Williams, a New York stock broker. Mr. Williams hired architect, Willis Irvin, and the house was built in 1935. (Cuthbert & Hoffius, 2009)

Willis Irvin, of Augusta, Georgia designed upscale residences throughout the lowcountry from the late 1910's through 1940's. A promotional catalog for his work espoused his goal of creating "residential work in that style characteristic of the Old South." His colonial revival style included "monumental porticos, an extensive vocabulary of classical ornamentation, and sumptuous interiors...a mythical conception of the southern plantation that was grander and more lavish than anything in the 'Old South." (SCIWAY, 2019) The Williams, as wealthy northerners building the house at Castle Hill as a winter residence, were typical of Irvin's clientele. (SCIWAY, 2019). The house, however, was less typical of Irvin, as it is lacks the traditional columned, double porch at the entryway and the classical ornamentation is more minimal.

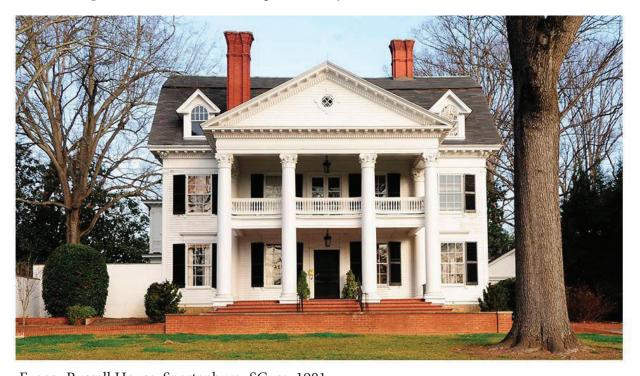


Castle Hill Plantation house and owner Joseph T. Wearn, with superintendent Dave Gamble. Wearn bought the property in the 1950's or 60's and owned it until his death in 1984.

Most of Irvin's colonial revivalist residences featured large porticos and ornate details such as featured in these examples of his work.



C.K. Dunlap House, Hartsville, Darlington County SC, 1934.



Evans- Russell House, Spartanburg, SC, ca. 1901

Sources:

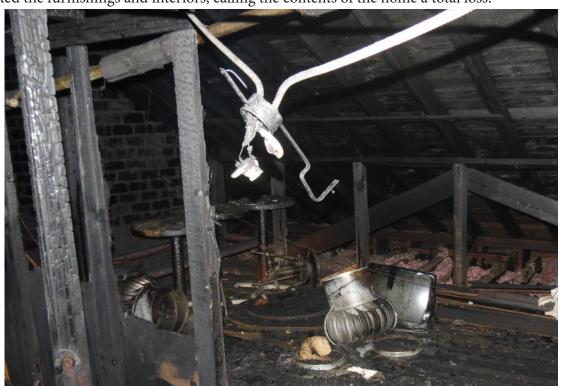
Cuthbert, Robert B. & Hoffius, Stephen G. (Eds.). (2009). *Northern Money, Southern Land: The Lowcountry Plantation Sketches of Chlotilde R. Martin.* The University of South

Carolina Press.

SCIWAY. (2019). Castle Hill Plantation – Beaufort County. South Carolina Plantations. https://south-carolina-plantations.com/beaufort/castle-hill.html

Vivian, Daniel J. (2016). Irvin, Willis. South Carolina Encyclopedia. The University of South Carolina Press.

Raymond and Livia Basso acquired Castle Hill Plantation in 1985. They constructed a kitchen addition in 1996. In 2019, a fire started by a power washing equipment engulfed the house and required more than 2 dozen firefighter to extinguish. The damage to the house, from the fire, smoke, water damage, mold & mildew, was extensive. The roof was covered by tarps to patch the network of holes, the framing was charred and destroyed in many places, the HVAC, plumbing & electrical systems were destroyed, the plaster was waterlogged and full of mold. Appraiser Ann Valverde inspected the furnishings and interiors, calling the contents of the home a total loss.







Existing Context Photographs:









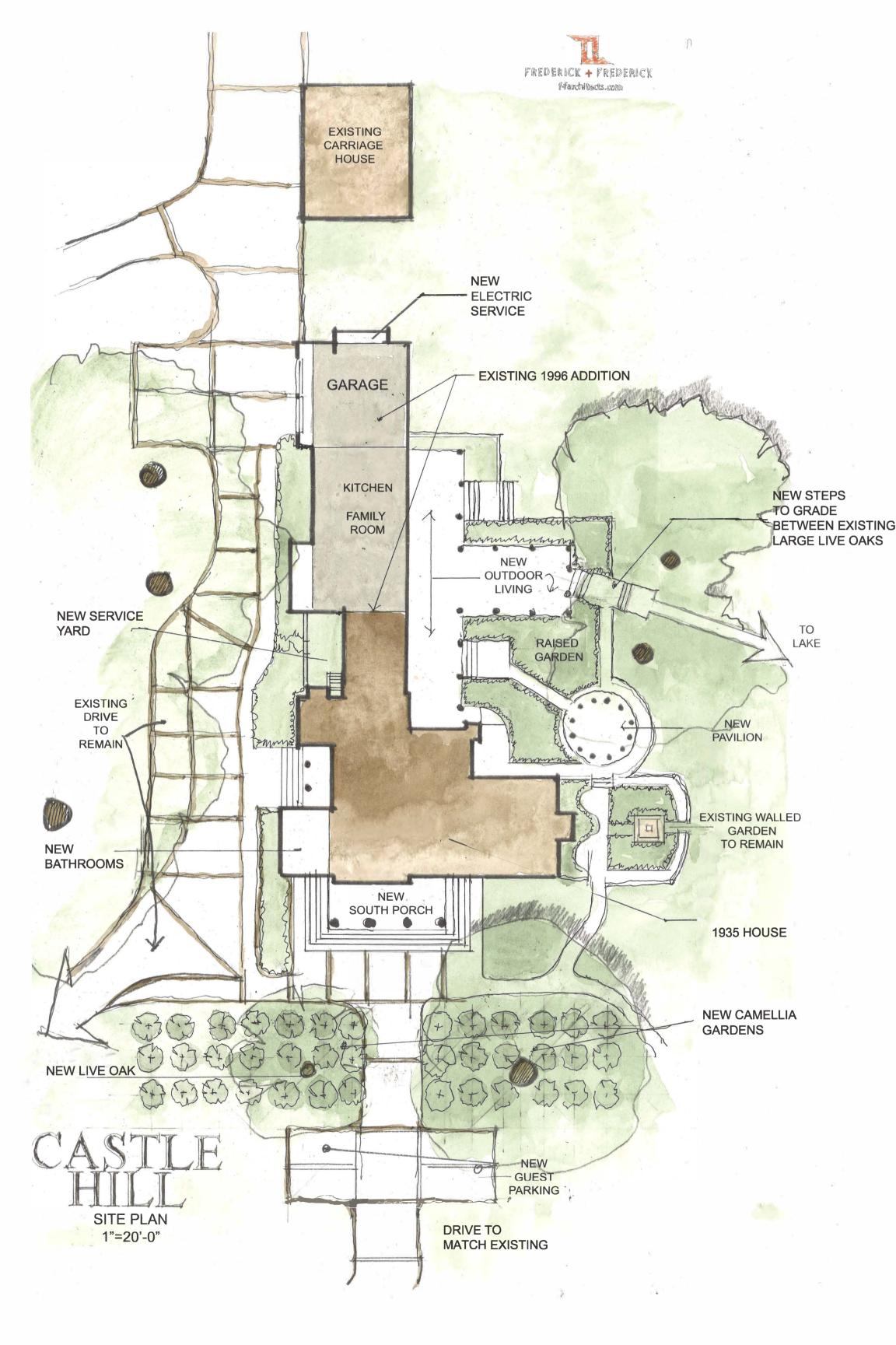
21st Century Renovations

Frederick and Frederick Architects drew plans for the initial phase of Ms. Basso's project, which was a full rehabilitation of the house to its pre-fire condition. To date, the damaged materials have been removed from the house, and the structural framing and roof have been replaced. The house, in it's stripped-down state, sits ready for Ms. Basso's thoughtful renovation plans.

The renovation seeks to honor the long history of the house and its architectural integrity. The proposed porches are reminiscent of the grand porticos typical of Willis Irvin's style. The exterior changes to the 1996 kitchen addition will contextualize this portion of the house in a way that ties it to the original structure. The covered outdoor living room will enhance Ms. Basso's enjoyment of the pond view and the great natural beauty of the place. The pond and surrounding wetlands are overgrown and choking with invasive plants, Ms. Basso plans to clean it all up and restore the pond environment. A new brick, wrought iron, and wood gate will provide a marked entrance to the property, the design is shown in the attached set of drawings.

New bathrooms and the new kitchen will be updated to the 21st century standards. The HVAC system will be energy efficient. All new windows (Andersen A-series traditional double-hung) will also be energy efficient and visually appropriate. These upgrades will contribute to Ms. Basso's comfort and safety as a full time resident of the house.

The following watercolor drawings are provided to convey the design intent, and more detailed hardline drawings are attached with this submittal, as well. The improvements to the amenities and aesthetics will enable the house at Castle Hill to be preserved for generations to come.





1/8"=1'-0"



NORTHEAST VIEW

CASTLE
HILL



WEST ELEVATION 1"=10'-0" CASTLE
HILL



New Materials List:

Roof:

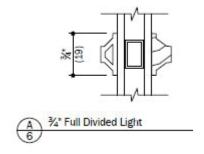
The roof has been re-built using salvaged and new color matched slate shingles over a new wood I framed roof structure, 1X6 sheathing, 30# roofing felt, and copper flashings

Doors:

Andersen A Series Weiland Lift & Slide doors Finish color: White

Windows:

Andersen A Series, double hung, traditional, with 3/4" full divided light Finish color: white



Paving:

Carmel Travertine, Ashlar pattern, 12x12, 16x16, 12x24



New Exterior Light Fixures:



Bevolo Williamsburg Original Bracket Lantern $22" \times 10.3" \times 9"$



B-K Lighting Mini Drivestar Flush recessed in-grade LED, Old Copper finish



Nora Lighting, 4" Recessed LED, Bronze finish





WILLIAMSBURG

ORIGINAL BRACKET

The Williamsburg fixture was originally produced from a colonial design. We often use this fixture in both primary and secondary areas. The Williamsburg naturally complements the French Quarter lantern and is often paired with this fixture. The Williamsburg can be purchased with or without the stack (pictured without stack). The bracket mount Williamsburg is available in natural gas, liquid propane, and electric. *10" & 12" are not available in gas.

Standard Lantern Sizes			
Height	Width	Depth	
10.0"	7.3"	6.0"	
12.0"	8.8"	7.5"	
14.0"	10.3"	9.0"	
15.0"	7.3"	6.0"	
16.0"	10.3"	9.0"	
18.0"	8.8"	7.5"	
22.0"	10.3"	9.0"	

NLCBC-469

4" Cobalt LED Adjustable Retrofit

Source: 12W LED Up to 1000lm

Type Project Catalog No. Notes

PRODUCT DESCRIPTION

Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. Patented adjustable mechanism rotates and adjusts while never exposing an opening or breaking the ceiling plane. Retrofit luminaires deliver up to 1000 lumens in various color temperature options. Cobalt series integrates the latest COB LED technology, giving bright spectacular light output and low power consumption.

FEATURES

- · Retrofit existing 4" recessed housings
- Field adjustable beam spreads (flood installed, spot and narrow flood included)
- · Up to 1000 lumen output
- · 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- · COB LED Technology
- · Integral dimmable driver
- · Includes medium base socket adapter
- · ENERGY STAR certified

SPECIFICATION

Trim: Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. Adjustable design rotates and adjusts while never exposing an opening or breaking the ceiling plane. Reflector places the LED optics deeper than the standard increasing the visual comfort. Additionally the deep cones reduces board images when off.

Adjustability: 358° rotate and 30° tilt

Optics: Spot (included), Medium (included) and Flood optic

(installed)

Lens: Frosted Lens (installed) and Semi-Frosted Lens (included)

ELECTRICAL

Input Voltage: 120V

Lumens / Wattage: Up to 1000lm / 12W

(Delivered lumens will vary depending on CCT, optic & finish)

Color Temperature: 2700K, 3000K, 3500K or 4000K

Color Rendering Index: 90+ CRI

Beam Spread: 48° Spot, 69° Narrow Flood, 99° Flood **Operating Temperature:** 0°C to 25°C

Life Expectancy: 54,000 Hours @ L70
Dimming: Triac, ELV or 0-10V (must specify)
Click Here or check complete dimmer list at

 $www. NoraLighting.com\ in\ the\ "Compatibility"\ page\ under$

"Resources" tab

COMPATIBLE HOUSINGS

Cobalt retrofit reflectors are compatible with most 4" IC and Non-IC housings by Nora and others.

Fire Box

NFBIC-4LMRATA* ICAT Dedicated LED
NFBIC-4LMRATA/4W ICAT Dedicated LED for LE4
NFBIC-4INCATA ICAT Line Voltage

New Construction

NHIC-4LMRAT*
NHIC-4LMRAT/4W*
NHIC-4LMRAT/EM*
NHIC-4LMRAT/6WEM*
NHIC-4LMRAT/6WEM*
NHIC-4LMRAT/277*
ICAT Dedicated LED for EM
ICAT Dedicated LED for EM+LE4
NHIC-4LMRAT/277*
ICAT Dedicated LED, 277V

(includes step-down transformer)

NHICCP-4LMRAT* Chicago Plenum Dedicated LED
NSIC-4010AT ICAT Line Voltage
NS-4010AT AT Line Voltage
NHIC-4624AT ICAT GU24

Remodel

NHRIC-4LMRAT* ICAT Dedicated LED
NSRIC-4040AT ICAT Line Voltage
NSR-4040AT AT Line Voltage
NHRIC-4624AT ICAT GU24

* Nora Dedicated LED housings are cULus listed for use only with Nora LED Retrofits.

Retrofit: Cobalt retrofit series includes medium base screw-socket adapter (NRA-211SM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify NRA-212SM.

ACCESSORIES

NLCBC-469TIR: Premium TIR optics optics are available in 25° or 45°, must specify ring finish.

LABELS AND LISTINGS

- cULus classified for Damp Location when used with compatible housing
- · Suitable for Type IC and Non-IC
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- · ENERGY STAR certified (not BB or BZBZ finish)
- · RoHs Compliant
- · 5-Year Limited Warranty













Performance Data Part Number Lumens CCT NLCBC-46927XWW 881lm 2700K NLCBC-46930XWW 970lm 3000K NLCBC-46935XWW 972lm 3500K 4000K NLCBC-46940XWW 1011lm

Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS









HZN Haze Reflector Natural Metal Flange



MPW
Matte Powder White Reflector
Matte Powder White Flange

Optional Accessories



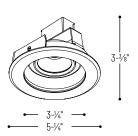
R7R7

PATENT No.:

Haze Reflector White Flange



WW White Reflector White Flange



4" Cobalt LED Adjustable Retrofit

Color Temperature	Reflector Finish / Flange Finish	Dimming & Emergency	Description	Optic	Ring Finish
NLCBC-46927X = 2700K NLCBC-46930X = 3000K	BB = Black Reflector / Black Flange BZBZ = Bronze Reflector/ Bronze Flange	(blank) = 120V Triac/ELV EM = Remote Emergency (requires Nora EM housing)	NLCBC-469TIR = TIR optic	25 = 25° 45 = 45°	B = Black BZ = Bronze
NLCBC-46935X = 3500K NLCBC-46940X = 4000K	HZN = Haze Reflector/ Natural Metal Flange HZW = Haze Reflector / White Flange MPW = Matte Powder White Reflector /	, , , , , , , , , , , , , , , , , , ,			HZ = Haze MPW = Matte Powder White WW = White / White
	Matte Powder White Flange WW = White Reflector / White Flange		NRA-211SM = Medium ba NRA-212SM = Socket ada		
NLCBC-46930X = 3000K NLCBC-46935X = 3500K	HZW = Haze Reflector / White WW = White Reflector / White	LE4 = 120V 0-10V/Triac/ELV 277V 0-10V (requires Nora 4W housing) LE4EM = LE4 w/ Remote Emergency (requires Nora 6WEM housing)			·

Example: NLCBC-46935XWW = 4" Cobalt LED Adjustable Retrofit, 3500K, White Reflector / White Flange, 120V input; Triac / ELV dimming



PHOTOMETRICS

4" Cobalt LED Adjustable Retrofit

Туре

Project

Catalog No.

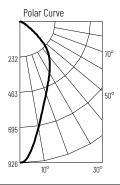
Notes

Test Information

Test Number: NTR11157
Part Number: NLCBC-46940SWW

Beam Spread: Spot Lumens: 1011lm Wattage: 11.4W Efficacy: 89lpw

CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180): 0.66 Spacing Criteria (90°-270): 0.66



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	57.9fc	3'-5"
6'	25.7fc	5'-1"
8'	14.5fc	6'-10"
10'	9.3fc	8'-6"
12'	6.4fc	10'-4"

Zonal Lumen Summary

	,	
Zone	Lumens	% Luminaire
0-30	446	44.1
0-40	661	65.4
0-60	842	93.2
0-90	1004	99.4
90-180	6	0.6
0-180	1011	100

Candela Table

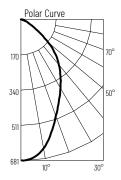
Landela	able
Vertical Angles	Candela
0	926
5	850
15	588
25	441
35	343
45	246

Test Information

Test Number: NTR11156 Part Number: NLCBC-46940MWW Beam Spread: Narrow Flood

Lumens: 988lm Wattage: 11.5W Efficacy: 86lpw

CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180): 0.9 Spacing Criteria (90°-270): 0.92



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter		
4'	42.4fc	5'-6"		
6'	18.9fc	8'-4"		
8'	10.6fc	11'		
10'	6.8fc	13'-10"		
12'	4.7fc	16'-6"		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	424	42.9
0-40	634	64.2
0-60	916	92.7
0-90	981	99.2
90-180	7	0.8
0-180	988	100

Candela Table

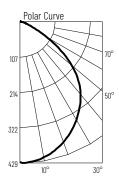
Vertical Angles	Candela		
0	679		
5	670		
15	566		
25	437		
35	335		
45	239		

Test Information

Test Number: NTR11155 Part Number: NLCBC-46940FWW Beam Spread: Flood

Beam Spread: Flood Lumens: 943lm Wattage: 11.5W Efficacy: 82lpw CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 1.2 Spacing Criteria (90°-270): 1.22



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter		
4'	26.6fc	9'-2"		
6'	11.8fc	13'-10"		
8'	6.7fc	18'-5"		
10'	4.3fc	23'-1"		
12'	3fc	27'-8"		

Zonal Lumen Summary

Zone	Lumens	% Luminaire		
0-30	323 34.3			
0-40	520	55.2		
0-60	848	89.9		
0-90	935	99.2		
90-180	8	0.8		
0-180	943	100		

Candela Table

Vertical Angles	Candela
0	426
5	425
15	404
25	366
35	315
45	251
	Angles 0 5 15 25 35

Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.96), 3500K (0.96), 4000K (1.00)

MINI DRIVESTAR FLUSH (REMOTE TRANSFORMER)

IP66 RATED

TYPE DATE:

CATALOG NUMBER LOGIC:



*Use with remote 12VAC Magnetic Transformer.

CATALOG NUMBER LOGIC

Example: MD - LED - e71 - F - SAP - 1 - A

MATERIAL

(Blank) - Aluminum B - Brass S - Stainless Steel

SERIES

MD - Mini-Micro DriveStar

SOURCE

LED - Solid State System with Integral Non-Dimming Driver*

LED TYPE

e70 - 3W LED/2700K e85 - 3W LED/2700K 90 CRI e71 - 3W LED/3000K e86 - 3W LED/3000K 90 CRI e72 - 3W LED/4000K e87 - 3W LED/3500K 80 CRI

e73 - 3W LED/Amber

INSTALLATION

F - Flush

FINISH (See page 2 for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

Also available in RAL Finishes

Brass Finishes (MAC, POL, MIT)

Stainless Steel Finishes (MAC, POL)

OPTICAL OPENINGS

1 - Single

2 - 2 @ 180°

4 - 4 @ 90°

FACEPLATE STYLE

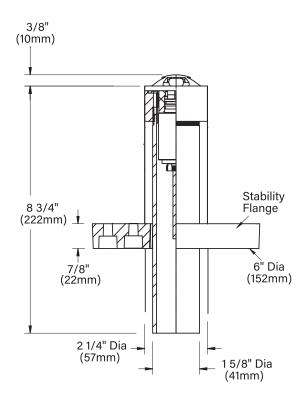
A - Solid

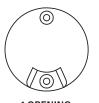
B - Round Accent

MOD OPTION

25 - 25 Ft Leads

DATE: PROJECT: TYPE:









1 OPENING STYLE 'A'

2 OPENINGS

4 OPENINGS



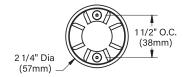




1 OPENING STYLE 'B'

2 OPENINGS

4 OPENINGS



SURFACE MOUNT

STANDARD FINISHES



Click Here to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES

Granite (CMG) Granite (RMG) Granite (SMG) Granite (AMG) (TXF) Black Chrome (BCM) Beige (BGE) Weathered Copper (WCP) (OCP) (HUG) Antique Brass Brown Patina Sonoran Desert Weathered Iron Clear Anodize				
Granite (CMG) Granite (RMG) Black Chrome (BCM) Antique Brass Powder (ABP) Cream Granite (RMG) Granite (SMG) Granite (SMG) Granite (AMG) Granite (AMG) Granite (AMG) (TXF) Hunter Green (OCP) (HUG) Weathered (OCP) Copper (WCP) Sonoran Desert Sandstone (SDS) Weathered Iron (WIR) Clear Anodize Powder (CAP) Powder (CAP)				
(BCM) Copper (WCP) (OCP) (HUG) Antique Brass Powder (ABP) Powder (BPP) Sandstone (SDS) (WIR) Clear Anodize Powder (CAP) Cream Antique White Natural Brass		•		 Textured Fores (TXF)
(BCM) Copper (WCP) (OCP) (HUG) Antique Brass Powder (ABP) Powder (BPP) Sandstone (SDS) (WIR) Clear Anodize Powder (CAP) Cream Antique White Natural Brass	1 200			
Powder (ABP) Powder (BPP) Sandstone (SDS) (WIR) Powder (CAP) Cream Antique White Natural Brass		Beige (BGE)		
Powder (ABP) Powder (BPP) Sandstone (SDS) (WIR) Powder (CAP) Cream Antique White Natural Brass				
·			001101011 2 00011	 Clear Anodized Powder (CAP)
		•		

MADE IN THE USA

559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM

MINI DRIVESTAR FLUSH (REMOTE TRANSFORMER)

IP66 RATED

DATE: PROJECT: TYPE:

Accessories (Configure separately)

SPECIFICATIONS

ELECTRICAL	WATTAGE	3W LED
	WIRING	Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard. Anti-Siphon Valve (ASV™) prevents "wicking" through conductor insulation. Provided with 5' fixture leads.
	TRANSFORMER	For use with 12VAC remote magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.
PHYSICAL	MATERIALS	Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304).
	BODY	Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.
	HOUSING	Fixture provided with 1-5/8" dia., 80 PVC housing for direct burial into soil or concrete. 6" dia., molded stability flange projects into substrate to simplify installation and reinforce housing stability.
	FACEPLATE	Machined from solid, copper-free aluminum, brass or stainless steel. Available with one, two, or four optical openings. Countersunk holes provide for flush hardware mounting.
	LENS	Shock-resistant, tempered, frosted acrylic lens is factory adhered to faceplate and provides hermetically sealed optical compartment.
	LED	Integrated solid state system and modular design with electrical quick disconnects permit field upgrade and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements and exceeds ENERGY STAR* lumen maintenance requirements. LM-80 certified components. Integral, non-dim. constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to 250mA.
	INSTALLATION	Features integral concrete pour collar (CPC). Top edge of collar to be installed flush with finished grade. Collar material and finish to match faceplate. Two (2) threaded holes for faceplate installation. Faceplate style A is suitable for walk-over and drive-over applications up to 35,000 lbs. GVW. Fully machined copper-free aluminum installation collar. Provided with hard-coat (Type III) black anodize finish for maximum corrosion resistance.
	HARDWARE	Tamper-resistant, stainless steel hardware. Faceplate screws are black oxide treated for additional corrosion resistance.
	FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	UL Listed. Certified to CAN/CSA/ANSI Standards. ADA compliant. IP68 Rated. Made in the USA with sustainable processes.
cÜLus LISTED RoHS∜		
MADE IN THE		



USA

MADE IN THE USA

LAMP & DRIVER DATA (e70, e71, e72, e73)

DATE: PROJECT: TYPE:

DRIVER	Input Volts	InRush Current	Operating Current	Operation Ambient Temperature
DATA	12VAC/DC 50/60Hz	<250mA (non-dimmed)	500mA	-22°F-194°F (-30°C - 90°C)

LM79 DATA			Α	L70 DATA		OPTICAL DATA			
BK No.	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L ₇₀)	No. of Windows	Beam Type	Angle	Delivered Lumens	
					1	Radial	360°h x 270°v	14	
e70	2700K	80	3	50,000	2	Radial	360°h x 270°v	23	
					4	Radial	360°h x 270°v	40	
					1	Radial	360°h x 270°v	15	
e71	3000K	80	3	50,000	2	Radial	360°h x 270°v	24	
					4	Radial	360°h x 270°v	42	
			-		1	Radial	360°h x 270°v	17	
e72	4000K	80	3	50,000	2	Radial	360°h x 270°v	27	
					4	Radial	360°h x 270°v	48	
e73	Amber (590nm)	~	3	50,000	~	Radial	360°h x 270°v	~	