#### October 2020 BAR Action

### Watkins, Robert < watkinsro@charlottesville.gov>

Wed 10/21/2020 12:39 PM

To: William Sherman <wshermanarch@gmail.com>; Thomas Keogh <tkeogh@trainarchitects.com>

Cc: Werner, Jeffrey B < wernerjb@charlottesville.gov>

#### **Certificate of Appropriateness Application**

BAR 20-09-04

128 Chancellor Street

Tax Parcel 290132000

Center for Christian Study, Owner

Thomas Keogh, Train Architects, and William Sherman, Applicants

Exterior alterations and addition

Dear Tom and Bill,

Last night, the Charlottesville Board of Architectural Review reviewed the above-referenced project as part of the consent agenda. Breck Gastinger moved to approve the consent agenda and Cheri Lewis seconded the motion. Items on the consent agenda were approved (8-0).

The following motion for approval, found in the staff report, is associated with your project.

Having considered the standards set forth within the City Code, including City Design Guidelines for Site Design and Elements, for New Construction and for Rehabilitations, I move to find that the proposed alterations and addition satisfy the BAR's criteria and are compatible with this property and other properties in The Corner ADC district, and that the BAR approves the application as submitted..

Please let me know if you have any questions.

Best,

Robert

Robert Watkins
Assistant Historic Preservation and Design Planner
Neighborhood Development Services
PO Box 911
Charlottesville, VA 22902

# City of Charlottesville Board of Architectural Review Staff Report

October 20, 2020



# **Certificate of Appropriateness**

BAR 20-09-04
128 Chancellor Street
Tax Parcel 290132000
Center for Christian Study, Owner
Thomas Keogh, Train Architects, and William Sherman, Applicants
Exterior alterations and addition



Year Built: c1926

District: The Corner ADC Status: Contributing

Rectangular form, three-bay frame shingled swelling with Craftsman and Colonial Revival stylistic elements. Constructed as a dwelling, the house was occupied until 1969 when it transitions to other uses. Since the 1980s it is served as the Center for Christian Study. (Historic survey attached.)

#### **Prior BAR Actions**

<u>June 2014</u> – Admin review of exterior deck alterations.

<u>August 18, 2020</u> – Preliminary discussion.

September 15, 2020 – BAR accepted applicant's request for deferral.

#### **Application**

- Applicant's submittal: William Sherman Architect, and Train Architects drawings *Center for Christian Study Expansion Study:* 
  - o BAR Submission, dated July 2020, REV. September 2020: Cover, sheets 1 through 15.
  - o Supplemental Submittal, dated September 2020: Cover, pages 1 through 11, Marvin cut sheets (Ultimate windows and Signature doors), BEGA light fixture cut sheets (recessed ceiling luminaires, recessed ceiling downlights, recessed luminaires, and bollard light).

o Site Lighting Supplemental Submittal, dated 09 October 2020: Cover, sheets E1.02, E2.00, E2.01, and BEGA light fixture cut sheets (recessed ceiling luminaires, recessed ceiling downlights, recessed luminaires, and bollard light).

CoA request for a proposed three-story addition of approximately 10,500 square feet (3,500 SF per floor) at the rear of the existing structure and alterations at the front entry terrace

#### Materials and components

#### Roofing [at addition]:

- New addition: Flat (Low-Slope); White EPDM
- New Bathroom addition south side: Asphalt shingles to match existing
- (Existing flat roof: Black EPDM)

#### Gutters/Downspouts:

- New addition: internal drains with scuppers; no gutters and downspouts
- New bathroom addition south side: new gutters and downspouts to match existing

#### Cornice:

• Capped parapet wall. Metal flashing. (See sheet 5 of in September 2020 Supplemental Submittal.)

#### Siding and Trim:

- Cedar shingles with 6" exposure painted to match the existing cedar shingles
- James Hardie Aspyre Reveal Panel System; NOM 2'x8' panels painted Benjamin Moore Light Pelham Gray; see color elevations for example.
- Trim Flat trim; painted white

#### Doors and Windows:

- Windows Marvin aluminum clad wood windows; white cladding
- Window Wall Marvin structurally mulled window system-glass and panel infill (no spandrel glass); white cladding
- Glass Clear glass to match BAR standards
- Doors Marvin aluminum clad wood doors; white cladding

#### Soffit:

• James Hardie Soffit Panel; painted to match cedar shingles

#### Parking garage:

- Ceiling material: 5/8" exterior gyp sheathing
- Wall material: James Hardie Aspyre Reveal System to match exterior

#### Concrete retaining wall at rear.

• See attached sketch with elevations (north and south ends) and outline exterior material specification. (Sheet 9 in September 2020 Supplemental Submittal.)

#### Front Terrace and Landscaping

• Note: Work at the front terrace has been removed from this CoA request

# Lighting

- Fixture A. Perimeter walk around new addition: low in wall mounted lights for a walking surface: BEGA LED recessed wall luminaires asymmetrical.
- Fixture B. South exit way: BEGA shielded LED bollard
- Fixture C. Garage interior: Recessed fixtures to meet code minimum light levels: BEGA LED recessed ceiling luminaires Vortex optics Symmetric wide
- Fixture D. Ground level exits from parking garage: recessed downlights in soffit above: BEGA LED recessed ceiling downlights narrow beam

#### Discussion

All specified lighting fixtures are available with lamping at a Color Temperature of 3,000K lamping. (The garage, soffit and low wall have lamping available at 2,700K.) BAR should consider a condition(s) regarding the lamping.

#### **Suggested Motions**

*Approval*: Having considered the standards set forth within the City Code, including City Design Guidelines for Site Design and Elements, for New Construction and for Rehabilitations, I move to find that the proposed alterations and addition satisfy the BAR's criteria and are compatible with this property and other properties in The Corner ADC district, and that the BAR approves the application as submitted..

[.. as submitted with the following modifications...]

*Denial*: Having considered the standards set forth within the City Code, including City Design Guidelines for Site Design and Elements, for New Construction and for Rehabilitations, I move to find that the alterations and addition do not satisfy the BAR's criteria and are not compatible with this property and other properties in The Corner ADC ADC district, and that <u>for the following reasons</u> the BAR denies the application as submitted...

#### Criteria, Standards, and Guidelines

### **Review Criteria Generally**

Sec. 34-284(b) of the City Code states that, in considering a particular application the BAR shall approve the application unless it finds:

- (1) That the proposal does not meet specific standards set forth within this division or applicable provisions of the Design Guidelines established by the board pursuant to Sec.34-288(6); and
- (2) The proposal is incompatible with the historic, cultural or architectural character of the district in which the property is located or the protected property that is the subject of the application.

# Pertinent Standards for Review of Construction and Alterations include:

- (1) Whether the material, texture, color, height, scale, mass and placement of the proposed addition, modification or construction are visually and architecturally compatible with the site and the applicable design control district;
- (2) The harmony of the proposed change in terms of overall proportion and the size and placement of entrances, windows, awnings, exterior stairs and signs;
- (3) The Secretary of the Interior Standards for Rehabilitation set forth within the Code of Federal Regulations (36 C.F.R. §67.7(b)), as may be relevant;
- (4) The effect of the proposed change on the historic district neighborhood;

- (5) The impact of the proposed change on other protected features on the property, such as gardens, landscaping, fences, walls and walks;
- (6) Whether the proposed method of construction, renovation or restoration could have an adverse impact on the structure or site, or adjacent buildings or structures;
- (7) Any applicable provisions of the City's Design Guidelines.

# **Pertinent ADC District Design Guidelines**

Chapter II – Site Design and Elements
Chapter III – New Construction and Additions



# VIRGINIA HISTORIC LANDMARKS COMMISSION

HISTORIC DISTRICT SURVEY FORM

	fils to the bis in			
	3 Chancellor St. arlottesville			
Historic name		Common name		
Wood frame (siding:   weatherboard,   Shingle,   aluminum,   bricktex.				
Number of St		Roof Type	Roof Material	
□ 1 ©	□ 2½	mansard gambrel	☐ slate ☐ tile ☐ pressed tin ☐ composition ☐ not visible ☐ standing seam metal ☐ other ☐	
	Dormers	Number	r of bays — Main facade	
0		ped □ 1 □ 2, □ 3	□ 4 □ 7 □ 5 □ 8 □ 6 □ <u>—</u>	
Porch ☑ yes ☐ no		Bays 1 (center)	General description Front porch with balustraded upper deck and paired Roman Doric posts.	
Building type  detached house garage government industrial detached town house apartment building commercial (office) school church double house gas station arailroad government commercial (store) church				
Style/period Cra	aftsman/ Colonial Revival	Date C /926. Architec	ct/builder	
Location and description of entrance Central entry with top- and side-lights.  Miscellaneous descriptive information (plan, exterior and interior decoration, cornice/eave type, window type and trim, chimneys, additions, alterations)  This house features projecting eaves, a symmetrical facade, and a central 3-sided bay on the upper floor that opens out onto the porch deck. The house is located on a lot that slopes toward the rear.				
		Historical information  According to the Sanborn maps, this	real estate records and the house was built ca. 1926.	

Source CReal Estate records; Sanborn maps;

8**-**83

Jeff O'Dell, VHLC

Surveyed by







3/2/1996



# Board of Architectural Review (BAR) Certificate of Appropriateness

Please Return To: City of Charlottesville Department of Neighborhood Development Services P.O. Box 911, City Hall Charlottesville, Virginia 22902 Telephone (434) 970-3130

Please submit ten (10) hard copies and one (1) digital copy of application form and all attachments.

Please include application fee as follows: New construction project \$375; Demolition of a contributing structure \$375; Appeal of BAR decision \$125; Additions and other projects requiring BAR approval \$125; Administrative approval \$100.

Make checks payable to the City of Charlottesville.

The BAR meets the third Tuesday of the month.

Deadline for submittals is Tuesday 3 weeks prior to next BAR meeting by 3 30 p.m.

Owner Name University Christian Ministries (dba Center for Christian Study) Project Name/Description Center for Christian Study A Project Property Address 129 Chancellor Street, C	· · · · · · · · · · · · · · · · · · ·
Address: Tom Work train Architects  Address: Tom Work train Architects  All E. Jefferson St., Charlo from Iv. Va 2290  Email: Lkeo an Tenan a rehited scom  Phone: (W) 424, 143, 1445 (C) 424, 242, 5111  Property Owner Information (if not applicant)  Center for Christian Strain  Address: Bill wider - Executive Director  126 Chanceller St. Charlot found, va 22903  Email: bill a strain center in the Phone: (W) 424, 317, 1050 (C) 424, 491, 491, 4900  Do you intend to apply for Federal or State Tax Credits for this project?  Description of Proposed Work (attach separate narration of Proposed W	Signature  Date  Thomks R Leagh  Print Name  Date  Property Owner Permission (if not applicant) I have read this application and hereby give my consent to its submission.  William W. Willer  Signature  Date  Print Name  Date  1/23/2020  Print Name  Date
For Office Use Only  Received by:Cash/Ck. #  Date Received:Revised 2016	Approved/Disapproved by:  Date:  Conditions of approval:

HISTORIC DISTRICT ORDINANCE: You can review the *Historical Preservation and Architectural Design Control Overlay Districts* regulations in the City of Charlottesville Zoning Ordinance starting with Section 34-271 online at www.charlottesville.org or at Municode.com for the City of Charlottesville.

DESIGN REVIEW GUIDELINES: Please refer to the current *ADC Districts Design Guidelines* online at www.charlottesville.org.

SUBMITTAL REQUIREMENTS: The following information and exhibits shall be submitted along with each application for Certificate of Appropriateness, per Sec. 34-282 (d) in the City of Charlottesville Zoning Ordinance:

- (1) Detailed and clear depictions of any proposed changes in the exterior features of the subject property;
- (2) Photographs of the subject property and photographs of the buildings on contiguous properties;
- (3) One set of samples to show the nature, texture and color of materials proposed;
- (4) The history of an existing building or structure, if requested;
- (5) For new construction and projects proposing expansion of the footprint of an existing building: a three-dimensional model (in physical or digital form);
- (6) In the case of a demolition request where structural integrity is at issue, the applicant shall provide a structural evaluation and cost estimates for rehabilitation, prepared by a professional engineer, unless waived by the BAR.

APPEALS: Following a denial the applicant, the director of neighborhood development services, or any aggrieved person may appeal the decision to the city council, by filing a written notice of appeal within ten (10) working days of the date of the decision. Per Sec. 34-286. - City council appeals, an applicant shall set forth, in writing, the grounds for an appeal, including the procedure(s) or standard(s) alleged to have been violated or misapplied by the BAR, and/or any additional information, factors or opinions he or she deems relevant to the application.

# Center for Christian Study Expansion Study

Center for Christian Study 128 Chancellor Street Charlottesville, VA 22903

BAR Submission July 2020 REV. September 2020

Cover and sheets 1 - 15 (\* Sheets 16 and 17 removed \*)

September 2020 BAR Review

Supplemental Submittal

Cover, sheets 1 - 11, spec sheets:

Marvin window and door spec (9 sheets)

LED lighting spec (3 sheets)

(Fine Concrete spec sheets removed \*)

<sup>\*</sup> Work at front of parcel removed from CoA request (Sept 28, 2020)

# Center for Christian Study Expansion Study

Center for Christian Study 128 Chancellor Street Charlottesville, VA 22903

BAR Submission
July 2020 REV. September 2020

William Sherman Architect

Train Architects

612 East Jefferson Street Charlottesville, Virginia 22902 ph 434.293.2965 fax 295.5122



128 Chancellor Street

# **History**

Description from Charlottesville Corner Survey, Charlottesville, Va.

128 Chancellor Street: Detached dwelling. Craftsman / Colonial Revival. Ca. 1926. Frame with wood shingles: 3 stories; hipped roof; 1 oversized front hipped dormer; symmetrical 3-bay front; 1-bay front porch w/ paired Roman Doric columns and balustrade upper deck. One of only three shingle-clad dwellings in the District, this house features a 3-sided bay opening onto the upper porch deck.

A 4-story addition (3 stories of finished space and one parking level) was designed and constructed in 1996 -1998. The addition includes a semi-detached open exit stair along the north elevation. Frame construction with wood shingles' hipped and flat roofs both; is a style similar to the original construction but with a modern twist reflective of its era

### **Narrative**

The Center of Christian Study is one of the leading Christian Study Centers in the Nation. Active in the University community since the 1970's, it first occupied a rented house on Elliewood Avenue. It purchased the house on Chancellor Street in 1976. The Center's program thrived in that location and grew to the extent that it began design work on an addition to the original house in 1996. Construction of that addition, which occupies the middle third of the site, was completed in 1998.

The Center continued to thrive in that "Corner" location and by the 2010's they were clearly outgrowing their facility. In 2015, the Center engaged William Sherman Architect with Train Architects to study their site and its potential for expansion. Working with the City of Charlottesville guidelines and code requirements regarding allowable building

area, building height, and property line setbacks, it was determined that a 3-story addition of approximately 10,500 GSF (3,500 GSF per floor) could be constructed on the rear third of the site. It was also determined that a project of that size could provide the space necessary to meet the center's current needs and projected growth over the next five to ten years. The project to design an addition at the rear of the site was begun in 2019.

# **Description of proposed work** and **Design Intent**

The addition to the existing Christian Studies Center will continue leave the residential character of the institution and the original building with the Chancellor Street entrance unchanged. This character is central to the identity of the institution as a "home" for university students and will be reflected in the development of the interior as a space that is domestic in character while creating the capacity to support the larger-scaled institutional needs.

The language of the exterior reflects this dual reading of the domestic to institutional scales as well, with a continuity of materials and an articulation of the massing into discrete volumes on the new addition that echo the original building. The design recognizes that the institutional spatial requirements demand a shift from the residential scale, while the relationship to the context as viewed from below requires the articulation of appropriately scaled volumes rather than the appearance of one large mass. Each of the resulting three primary elements of the new addition are clad in cedar shingles, stained to match the existing building, complemented by the white trim at the windows.

The three shingled elements include the new library reading room above the great hall with a large-scale window to the east, the curved meeting rooms to the north, and the stair and elevator tower to the south. The central large window at the common spaces serves as a singular lantern to identify the institutional program of gathering, while framing the view to the east from each room. The curved wall and window of the upper meeting room refers to the corner turrets found in the historical Shingle Style architecture that informed the original building, while providing a sweeping view to the Southwest Mountains. The stair tower and elevator are meant to provide an unobtrusive backdrop to the rear yard of the adjacent property.

The core of the building to which the three primary volumes attach forms a quiet background, a spatial and material reveal between the new addition and the existing building. The material will be a rainscreen wall panel system, reinterpreting the paneled material in the connecting links of the existing building.

All modifications to the existing building are being done in a way to precisely match the existing architecture, so that the original structure will appear essentially unchanged from the front and sides, including the beloved outdoor stair, decks and terraces.

The existing parking area will be accommodated under the new addition.



1. 1926 WEST (CHANCELLOR ST)



2. 1996 ADDITION NORTH



3. 1996 ADDITION NORTHEAST



4. 1996 ADDITION EAST



5. 1996 ADDITION SOUTH



5. 1996 ADDITION EAST (ELLIEWOOD AVE)

LOCATION

A. EXISTING 1926

B. EXISTING 1996 ADDITION

C. PROPOSED NEW ADDITION



1. NORTH WALK LOOKING EAST



2. NORTH WOOD DECKS



3. 1996 ADDITION - SOUTH ELEVATION - DETAIL OF WOOD PANELING

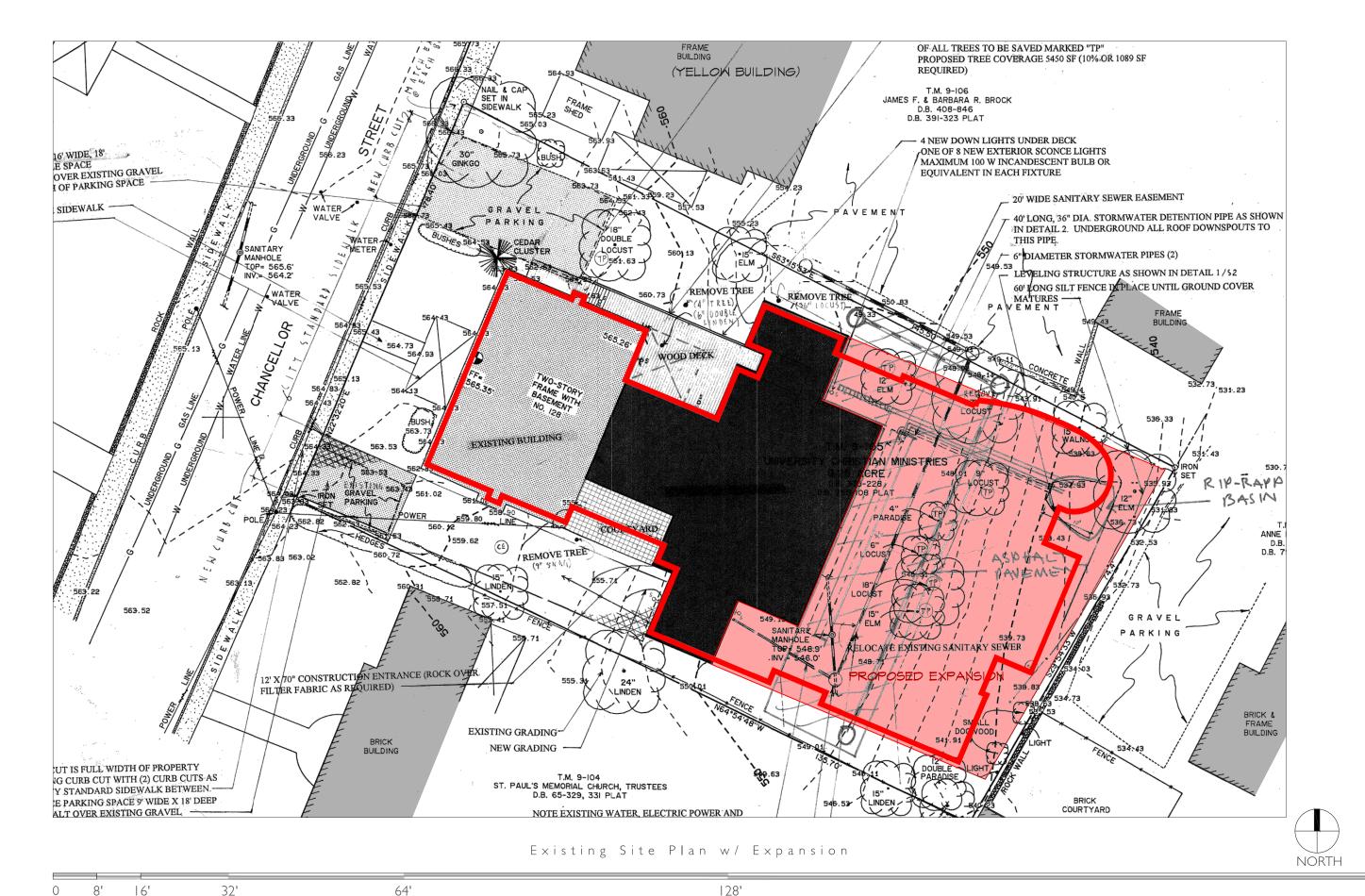


4. 1996 ADDITION - DETAIL OF NORTH STAIR



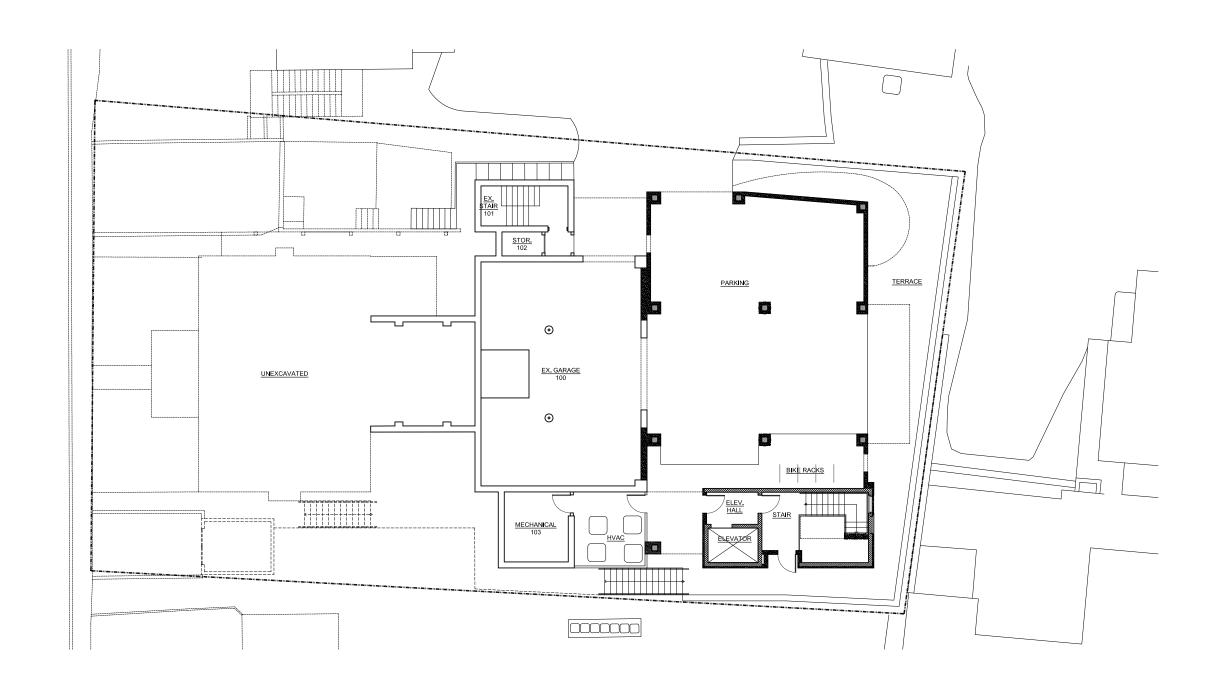
5. SOUTH COURTYARD AND WALKWAY

Center for Christian Study Expansion Study



Center for Christian Study Expansion Study

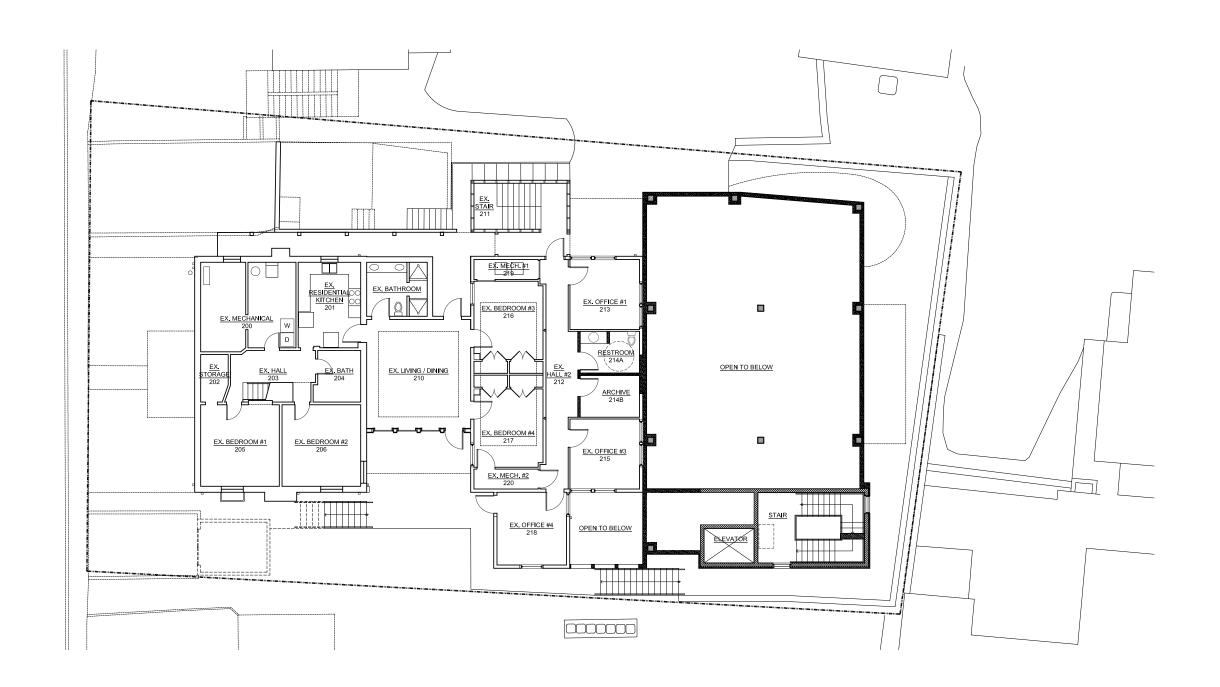
256'



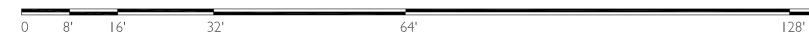
# BASEMENT LEVEL PLAN



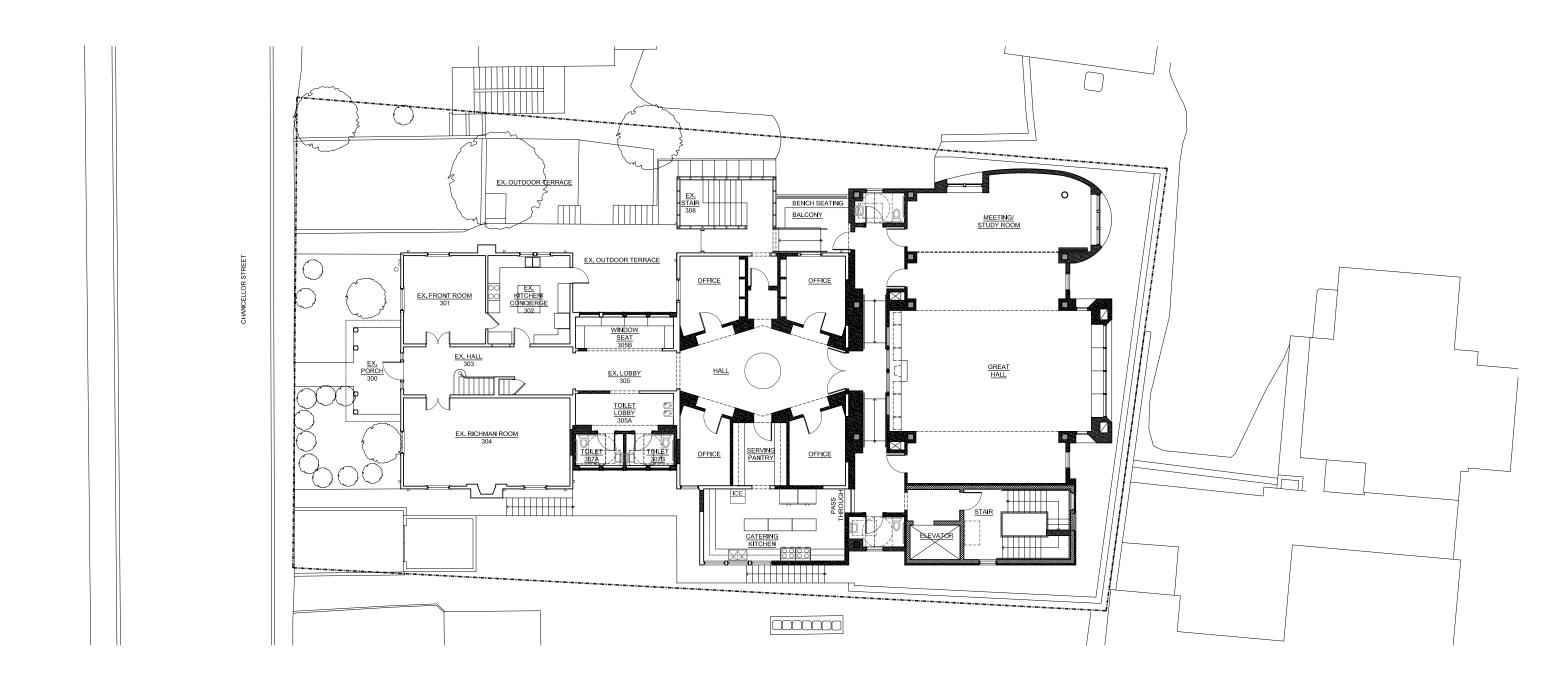




# LOWER/OFFICE LEVEL PLAN

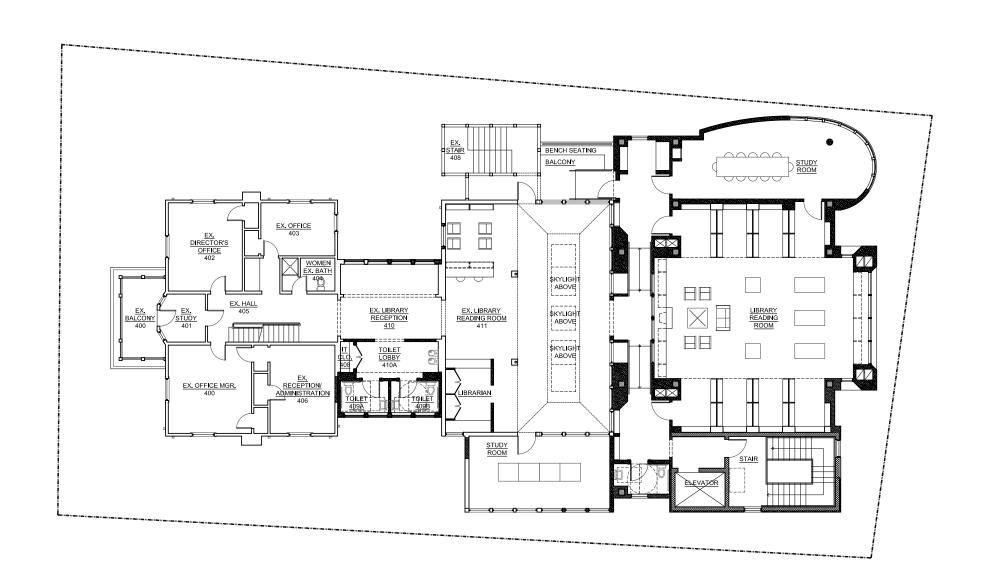






# FIRST LEVEL PLAN

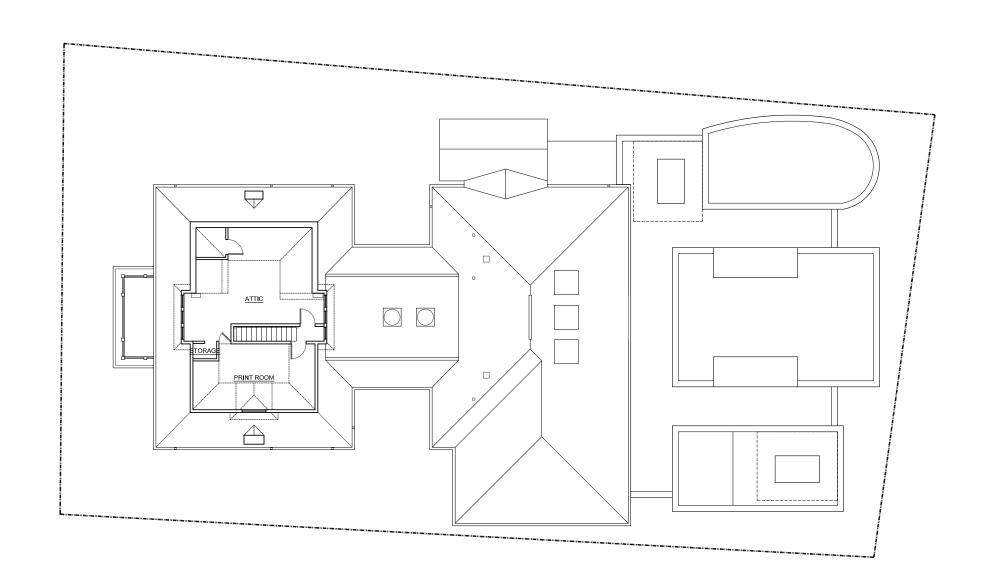




# UPPER LEVEL PLAN



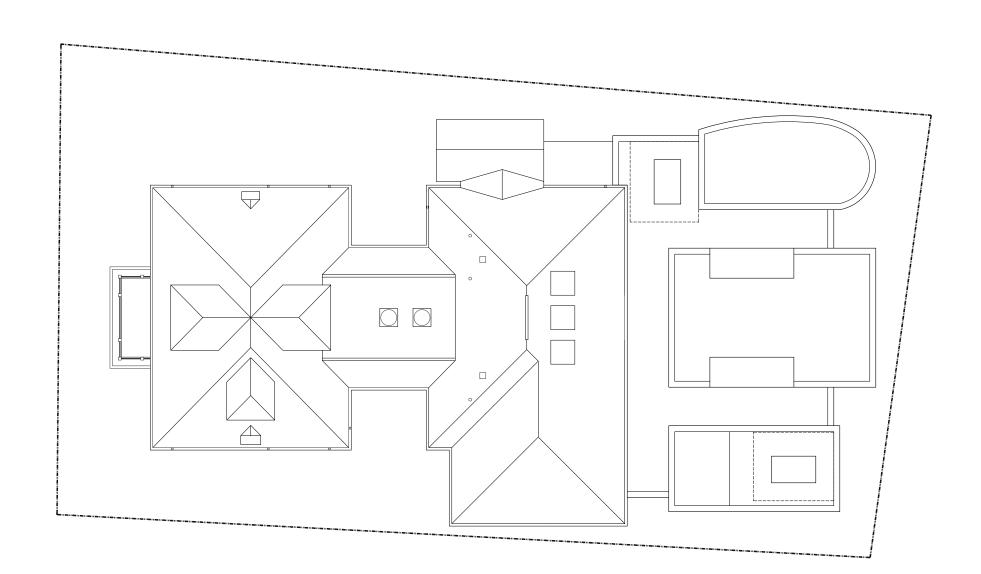




# ATTIC & ROOF PLAN



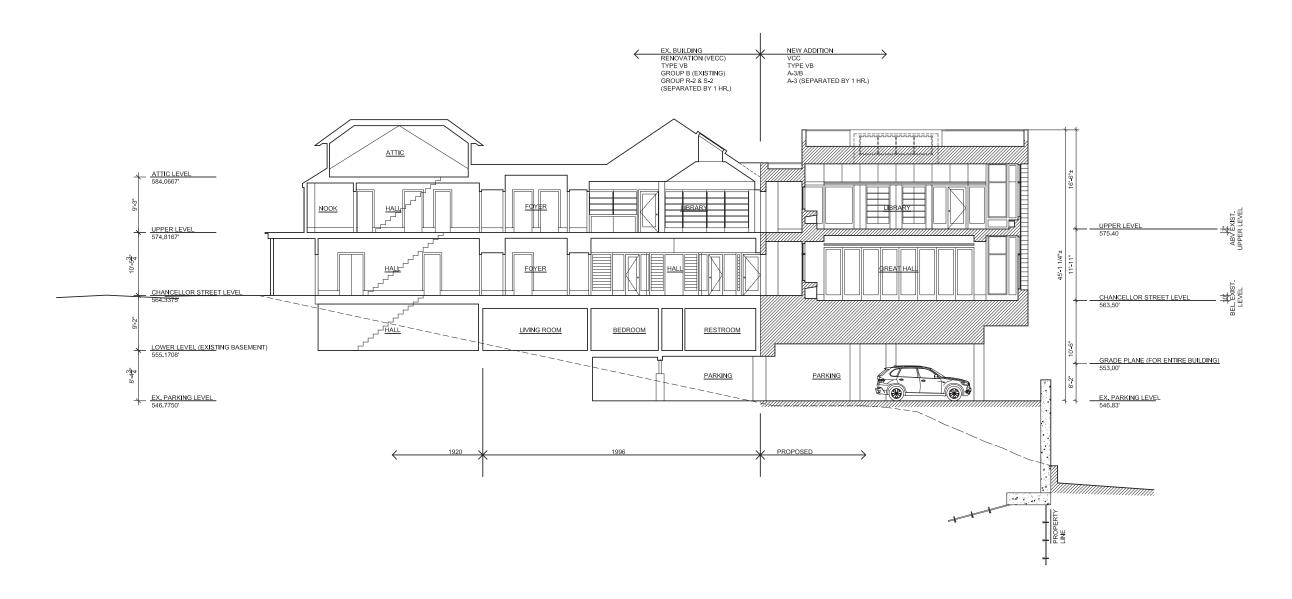




# ROOF PLAN







# LONGITUDINAL SECTION







Southeast Isometric Northeast Isometric



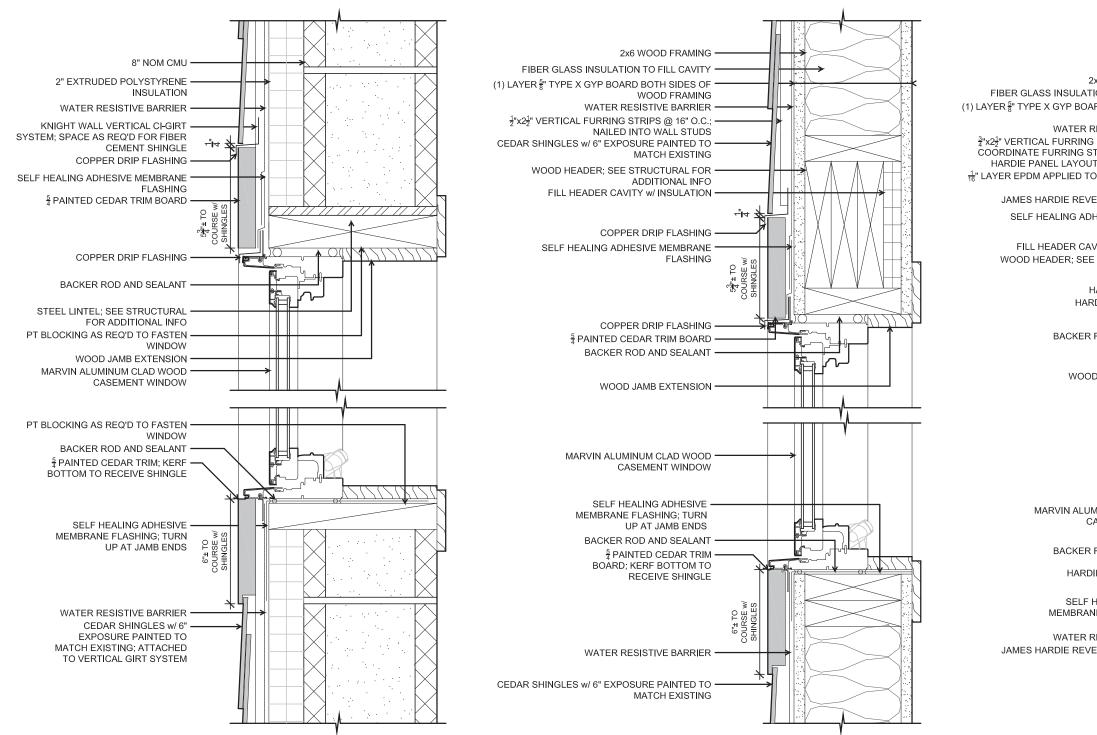
West (Chancellor Street) Elevation







Center for Christian Study Expansion Study



Window: Marvin Aluminum Clad Wood Window Facade: Cedar Shingles; painted to match existing

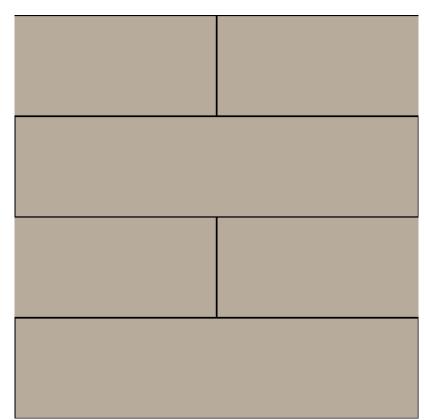
2x6 WOOD FRAMING FIBER GLASS INSULATION TO FILL CAVITY (1) LAYER  $\frac{5}{8}$ " TYPE X GYP BOARD BOTH SIDES OF WOOD FRAMING WATER RESISTIVE BARRIER 3/2 x2/2 VERTICAL FURRING STRIPS @ 16" O.C.; COORDINATE FURRING STRIP LOCATIONS w/ HARDIE PANEL LAYOUT AND WALL STUDS 16" LAYER EPDM APPLIED TO THE FACE OF THE **FURRING STRIPS** JAMES HARDIE REVEAL PANEL SYSTEM SELF HEALING ADHESIVE MEMBRANE FILL HEADER CAVITY w/ INSULATION WOOD HEADER: SEE STRUCTURAL FOR ADDITIONAL INFO HARDIE VENT STRIP HARDIE DRIP CAP TRIM BACKER ROD AND SEALANT WOOD JAMB EXTENSION MARVIN ALUMINUM CLAD WOOD -CASEMENT WINDOW BACKER ROD AND SEALANT HARDIE J-CHANNEL TRIM SELF HEALING ADHESIVE MEMBRANE ELASHING: TURN UP AT JAMB ENDS WATER RESISTIVE BARRIER JAMES HARDIE REVEAL PANEL SYSTEM

Window: Marvin Aluminum Clad Wood Window Facade: James Hardie Aspyre Reveal Panel System; painted

Window: Marvin Aluminum Clad Wood Window

Facade: Cedar Shingles; painted to match existing









CEDAR SHINGLES -STAINED TO MATCH EXISTING JAMES HARDIE REVEAL CEMENT PANEL SYSTEM

ALUMINUM CLAD WOOD WINDOW

STOREFRONT / CURTAIN WALL WINDOW SYSTEM NOTE: MULLION COLOR TO BE DETERMINED

# Center for Christian Study Expansion

Center for Christian Study 128 Chancellor Street Charlottesville, VA 22903

September 2020 BAR Review Supplemental Submittal Center for Christian Study Expansion 128 Chancellor Street Charlottesville, VA 22903

# Table of Contents:

Cover

Table of Contents

Outline Exterior Material Specification

BAR Comment Responses

Supplemental Drawings

Product Literature

# Outline Exterior Material Specification

Roof New addition: Flat (Low-Slope); White EPDM

New Bathroom addition south side: Asphalt shingles to match existing

Existing flat roof: Black EPDM

Cornice/Coping Metal; color to match façade color below coping

Gutters/Downspouts New addition: internal drains with scuppers; no gutters and downspouts

New bathroom addition south side: new gutters and downspouts to match

existing

Siding Cedar shingles with 6" exposure painted to match the existing cedar

shingles

James Hardie Aspyre Reveal Panel System; NOM 2'x8' panels painted Benjamin Moore Light Pelham Gray; see color elevations for example

Trim Flat trim; painted white

Flashing Metal; white to match window frame/trim

Soffits James Hardie Soffit Panel; painted to match cedar shingles

Rear Retaining Wall Smooth metal formed concrete with formwork joints; natural color

Guardrails Horizontal wood boards to match north stair, painted to match existing

Windows Marvin aluminum clad wood windows; white cladding

Window Wall Marvin structurally mulled window system-glass and panel infill (no spandrel

glass); white cladding

Glass Clear glass to match BAR standards

Doors Marvin aluminum clad wood doors; white cladding

Front Terrace Pavers Sand set Brick Pavers (formerly concrete pavers and changed to address

drainage and aesthetics)

# **BAR Comment Responses**

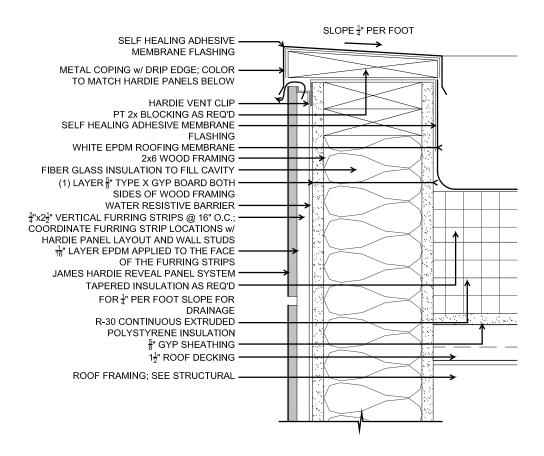
- 1) Roofing [at addition]: See outline exterior material specification.
- 2) Gutters/Downspouts: See outline exterior material specification.
- 3) Comice: Capped parapet wall. See outline exterior material specification and attached supplemental drawings for additional information.
- 4) Siding and Trim: See outline exterior material specification.
- 5) Doors and Windows: See outline material specification and attached product literature for additional information.
  - a. Which openings are storefront and which are Marvin windows? All glazing in the project to be Marvin clad windows. Storefront/curtain wall windows have been replaced with Marvin's structurally mulled window system.
  - b. What are the lite arrangements for the windows? No muntins / divisions are being proposed for the windows; see exterior elevations for additional information.
  - c. Colors for window and storefront components? See outline exterior material specification.
- 6) Soffits material: See outline exterior material specifications.
- 7) Parking Garage:
  - a. Ceiling material: 5/8" exterior gyp sheathing
  - b. Wall material: James Hardie Aspyre Reveal System to match exterior
  - c. Lighting: Recessed fixtures to meet code minimum light levels
- 8) Concrete retaining wall at rear: See attached sketch with elevations (north and south ends) and outline exterior material specification.
- 9) Front Terrace and Landscaping:
  - a. Benches tables and chairs? "Fine Concrete'; see attached product literature for additional information.
  - b. Concrete pavers: Front terrace ground material has been revised to brick pavers. Pattern to be determined.

Center for Christian Study Expansion 128 Chancellor Street Charlottesville, VA 22903

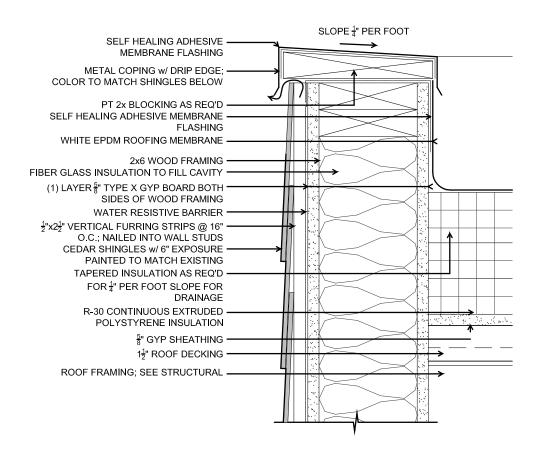
- c. Trash enclosure: Horizontal wood panels similar to north stair enclosure. See photo on sheet 16 of September BAR submittal and attached supplemental drawings for additional information.
- d. New wood deck: to match existing wood deck on the north side of the building.
- e. Planter boxes: Custom by "Fine Concrete"
- f. New sidewalk and driveway apron: to match existing.
- g. Lighting: Minimum required to illuminate egress paths low wall mounted or bollards
- h. Manhole (front entry): cast iron
- 10) Exterior Lighting: See attached "basis of design" product literature for additional information
  - a. Ground level exits from parking garage: recessed downlights in soffit above
  - b. Perimeter walk around new addition: low in wall mounted lights for a walking surface
  - c. South exit way: bollards

Center for Christian Study Expansion 128 Chancellor Street Charlottesville, VA 22903

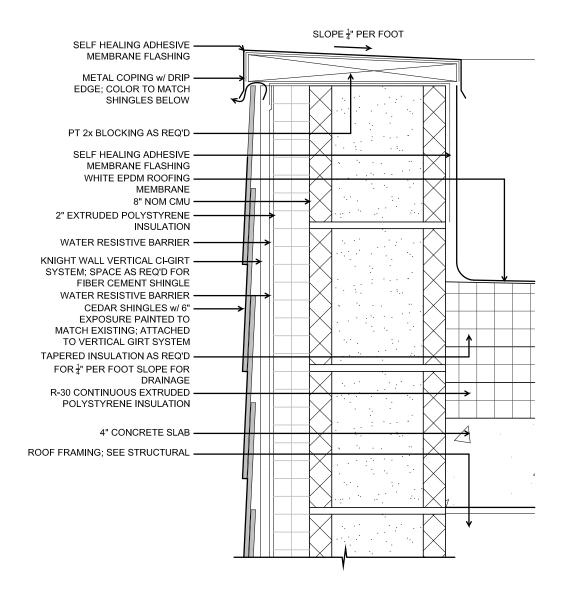
Supplemental Drawings



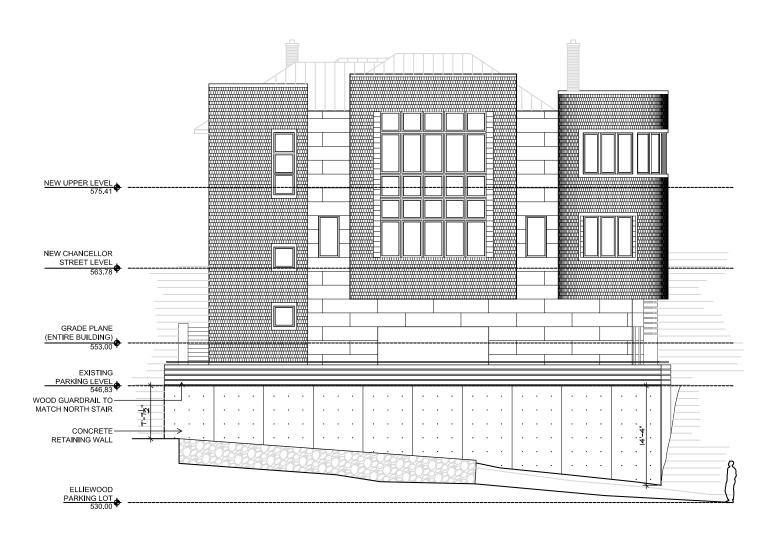
Wood Framed Parapet w/ Hardie Panel Facade



Wood Framed Parapet w/ Cedar Shingle Facade



CMU Parapet w/ Cedar Shingle Facade



East Elevation



West (Front) Elevation

Center for Christian Study Expansion 128 Chancellor Street Charlottesville, VA 22903

Product Literature







MARVIN SIGNATURE™ COLLECTION MARVIN®

# **ULTIMATE CASEMENT**





# **ULTIMATE CASEMENT**

The Ultimate Casement window is offered in some of the largest sizes in the industry, with a secure multipoint lock, durable hardware that ensures smooth operation, and Marvin's exclusive Wash Mode for easy cleaning-even on upper floors. With many design options, including round top shapes, the Ultimate Casement window flexes to fit your vision and can be sized to complement the most expansive views.









MARVIN SIGNATURE™ COLLECTION MARVIN®





# ULTIMATE PICTURE

The Ultimate Picture window offers a classic style in a non-operable window, bringing natural light into a room or highlighting an unobstructed outdoor view. Durable and energy efficient, it can be sized to match accompanying double hung, single hung, or casement windows. An aluminum-clad exterior provides durability and flexible finish options, or an all-wood option is ideal for historic renovation projects where a wood exterior is needed to match original architectural details.

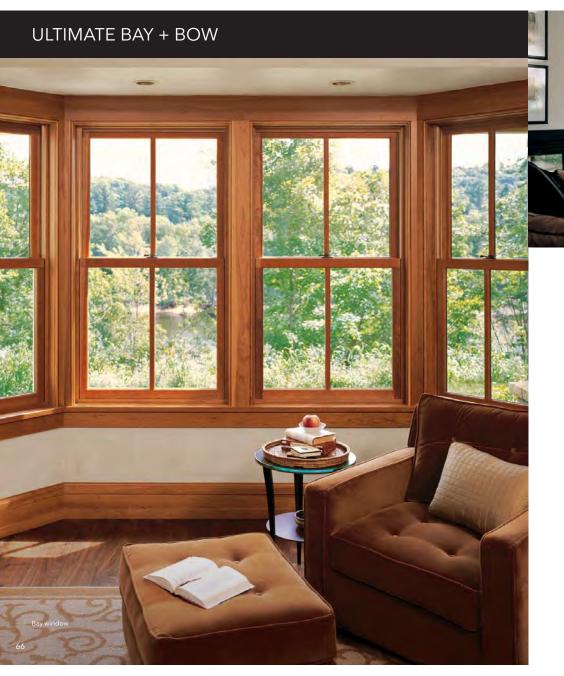


#### DIRECT GLAZE

Direct glaze refers to a window with no sash. The glass is glazed directly into the frame and is stationary.

#### IN-SASH

In-sash windows are nonoperable, and they can match the profiles of windows with operable sashes. MARVIN SIGNATURE™ COLLECTION MARVIN®



# ULTIMATE BAY

Ultimate Bay windows are a group of connected windows extending outward from a room at desired angles-allowing light and views from multiple directions. Some feature a larger operating or stationary window flanked by smaller windows. Ultimate Bay windows can create space indoors for a cozy nook or window seat, or maximize a scenic view to serve as a room's focal point.



INTERIOR BAY WITH ULTIMATE CASEMENT AND PICTURE WINDOWS

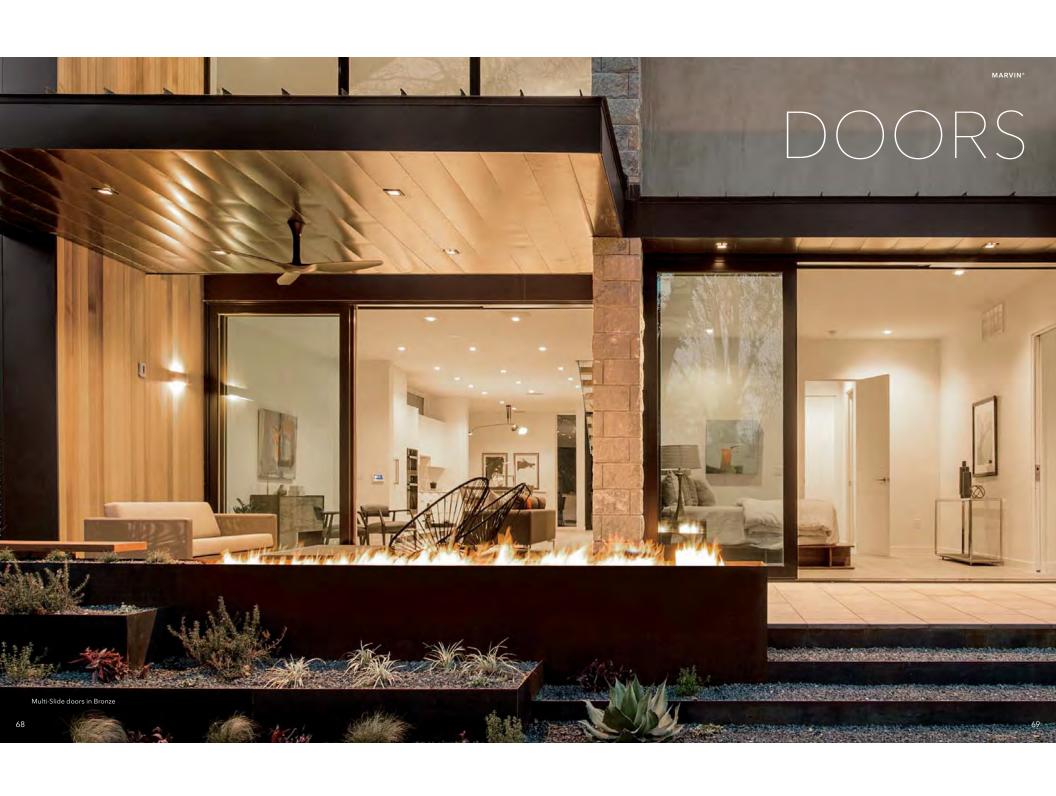
# **ULTIMATE BOW**

Ultimate Bow windows are a series of windows connected to form a gentle outward curve. Typically made up of four or more windows, Ultimate Bow windows can create a small nook, open up a view, bring in more light, and boost visual appeal from inside and out. Bow windows are available with casement, double hung, or picture windows.



CASEMENT AND PICTURE WINDOWS

CE THIS PRODUCT IS CE CERTIFIED



MARVIN SIGNATURE™ COLLECTION

# **DOOR TERMS + DEFINITIONS**

# DOOR OPERATING STYLES



#### 1. FRAME

The door frame includes the head jamb across the top, side jambs and the sill at the bottom. Marvin frames are built strong to stand up to heavy door usage year after year.

#### 2. RAIL

The horizontal wood members of a door are called rails, the vertical components are called stiles. The bottom rail on a French door design is about 8 inches high, harmonizing with traditional design preferences. On other doors, narrow bottom rails match 4 ¾ inch stiles for a clean, uncluttered appearance.

#### 3. SILL

Our door sills are made of Ultrex\*, pultruded fiberglass based materials that are virtually impervious to time, weather, and pressure. Ultrex door sills provide excellent performance in hot or cold climates, plus durability over the long haul by being resistant to warping, denting, and fading.

#### 4. PANELS

In a door, the panel is the main section, operating or stationary, that is installed into the frame. Marvin doors come in many sizes, some of the industry's largest, but all share the tight tolerances for fit and quality finishes.



#### OUTSWING DOOR

Single or double swinging doors open to the exterior.



#### INSWING DOOR

Single or double swinging doors open to the interior.



MARVIN®

#### LIDING DOO

Save space with a door panel that operates by sliding along a track.



BI-FOLD DOOR

This door folds to the side and can include up to sixteen panels.



#### LIFT AND SLIDE DOOR

For openings as large as 48 feet wide and 12 feet high, substantial door panels fully open into pocket or stacked configurations.



MULTI-SLIDE DOOR

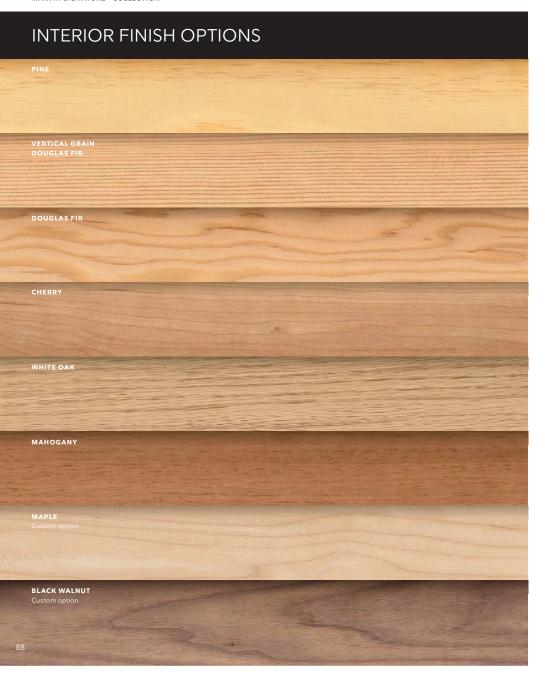
Another option to blend interior and outdoor living with a modular frame system.

# MAKE EVERY ENTRANCE GRAND

Marvin doors are designed to maximize the potential of any opening, view, and living space.

70 71

MARVIN SIGNATURE™ COLLECTION



# WOOD SPECIES

Offering a rich, warm look, many custom options, and design versatility, wood is a premium choice. Wood can be used on both the interior and exterior of a window or door. As a lower maintenance option, wood can also be used on only the interior with an extruded aluminum cladding exterior. Marvin offers both options, leading the industry in sourcing, processing, and utilizing high quality wood.



#### \* Stain colors shown on Pine. To see more about finishes visit Marvin.com.

#### STAIN + PAINT

When compared to painting or staining on the job site, factory-stained finishes offer consistent quality and performance resulting from our expertise with wood as a material and years of perfecting our staining process.

MARVIN°

Painting on the job site or scheduling off-site finishing is an extra step that takes time and coordination. Choose our painted interior finish option on any Marvin windows and doors with a wood or clad exterior for a factory-painted option that arrives ready to install.



MARVIN SIGNATURE™ COLLECTION MARVIN°

# **EXTERIOR FINISH OPTIONS** STONE WHITE COCONUT CREAM SIERRA WHITE PEBBLE GRAY HAMPTON SAGE CADET GRAY CLAY CASCADE BLUE SUEDE GUNMETAL WINEBERRY BRONZE BAHAMA BROWN EVERGREEN **EBONY** BRIGHT SILVER (PEARLESCENT) COPPER (PEARLESCENT)

#### EXTRUDED ALUMINUM

Extruded aluminum is an extremely tough cladding that protects wood windows, mimics the profiles of wood, and provides superior durability. It is the most commonly ordered Marvin material.

Select a color from our palette of 19 durable extruded aluminum colors, including a spectrum of rich hues and three pearlescent finishes. If you have more specialized needs, we can also work with you to create a custom color.

# **WOOD SPECIES**

Wood is a premium material for windows and doors, offering classic aesthetic appeal, many options for customization, and design versatility.

We treat exposed millwork with a water repellent wood preservative to help it last longer. Choose from one of the four options below. Each is ready to be finished to match your project's exacting requirements.





Ultimate Double Hung G2 window in Ebony

Ultimate Double Hung G2 window in Suede



CUSTOM COLOR: ANY COLOR YOU WANT

LIBERTY BRONZE (PEARLESCENT)

Linear LED recessed ceiling luminaires with symmetric wide light distribution. The patent pending 'vortex reflector' rotates a parabolic reflector around the vertical axis to for a complex vortex shape. The vortex balances maximum efficiency with optimal glare control while eliminating shadows and artifacts in a uniquely rectangular shape.

#### Materials

Luminaire housing and trim constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy Clear safety glass

Reflector surface made of pure anodized aluminum

Silicone applied robotically to casting, plasma treated for increased adhesion

High temperature silicone gasket

Mechanically captive stainless steel fasteners

Stainless steel screw clamps

NRTL listed to North American Standards, suitable for wet locations

Protection class IP65 Weight: 14.1 lbs

Electrical

Operating voltage 120-277VAC
Minimum start temperature -20° C
LED module wattage 48.0 W
System wattage 55.0 W

Controllability 0-10V dimming down to 0.1%

Color rendering index Ra > 80

 Luminaire lumens
 5,880 lumens (3000K)

 Lifetime at Ta = 15° C
 369,000 h (L70)

 Lifetime at Ta = 35° C
 111,000 h (L70)

#### LED color temperature

4000K - Product number + **K4** 3500K - Product number + **K35** 3000K - Product number + **K3** 2700K - Product number + **K27** 

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

#### Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors Black (BLK) White (WHT) RAL: Bronze (BRZ) Silver (SLV) CUS:

Type:

**BEGA Product:** 

Project:

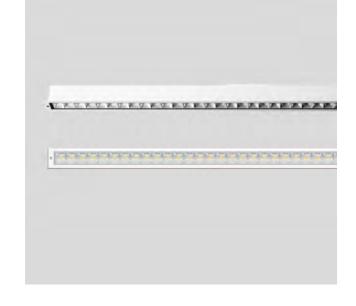
Modified:



Recessed ceiling luminaires · Vortex optic · Symmetric wide					
	LED	β	А	В	С
24 305	48.0 W	52°	60 3/8	3	3 1/2

 $\beta$  = Beam angle

**BEGA** 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com



LED recessed ceiling luminaire with narrow beam light distribution designed for downlighting atriums, canopies, passages and other interior and exterior locations.

#### Materials

Luminaire housing and faceplate constructed of die-cast marine grade, copper free ( $\leq$ 0.3% copper content) A360.0 aluminum alloy Clear safety glass

Silicone optical collimating lens

Reflector surface made of pure anodized aluminum

High temperature silicone gasket

Stainless steel screw clamps

Galvanized steep rough in ceiling pan with through wiring box

NRTL listed to North American Standards, suitable for wet locations

Protection class IP65 Weight: 2.2 lbs

Electrical

Operating voltage 120-277V AC Minimum start temperature -20° C LED module wattage 8.3 W System wattage 9.7 W

Controlability 0-10V dimming down to 0.1%

Color rendering index Ra>80

 Luminaire lumens
 1,194 lumens (3000K)

 Lifetime at Ta=15°C
 >500,000 h (L70)

 Lifetime at Ta=45°C
 270,000 h (L70)

#### LED color temperature

4000K - Product number + **K4** 3500K - Product number + **K35** 3000K - Product number + **K3** 2700K - Product number + **K27** 

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

#### Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors Black (BLK) White (WHT) RAL:

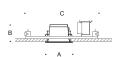
Bronze (BRZ) Silver (SLV) CUS:

Type:

**BEGA Product:** 

Project:

Modified:



#### 

 $\beta$  = Beam angle



LED recessed wall luminaire with asymmetrical light distribution for the illumination of ground surfaces, building entrances, stairs and footpaths.

#### Materials

Luminaire housing constructed of die-cast aluminum marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy Clear safety glass

Silicone applied robotically to casting, plasma treated for increased adhesion

High temperature silicone gasket

Mechanically captive stainless steel fasteners

Stainless steel screw clamps Composite installation housing

NRTL listed to North American Standards, suitable for wet locations

Protection class IP65 Weight: 2.1 lbs

Electrical

Operating voltage 120-277V AC Minimum start temperature -40° C LED module wattage 8.4 W System wattage 11.0 W

Controlability 0-10V, TRIAC, and ELV dimmable

Color rendering index Ra > 80

Luminaire lumens 480 lumens (3000K) LED service life (L70) 60,000 hours

#### LED color temperature

4000K - Product number + **K4** 3500K - Product number + **K35** 3000K - Product number + **K3** 2700K - Product number + **K27** Amber - Product number + **AMB** 

#### Wildlife friendly amber LED - Optional

Luminaire is optionally available with a narrow bandwidth, amber LED source (585-600nm) approved by the FWC. This light output is suggested for use within close proximity to sea turtle nesting and hatching habitats. Electrical and control information may vary from standard luminaire.

LED module wattage 8.7 W (Amber)
System wattage 10.7 (Amber)
Luminaire lumens 111 lumens (Amber)

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

## Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors Black (BLK) White (WHT) RAL:

Bronze (BRZ) Silver (SLV) CUS:

· B (1)

LED recessed wall luminaires · asymmetrical					
	LED	А	В	С	
33.055	9.4\\/	101/-	23/.	5	

Type:

**BEGA Product:** 

Project:

Modified:



Fully enclosed luminaire with installation housing ensures seamless integration and weathertight operation.



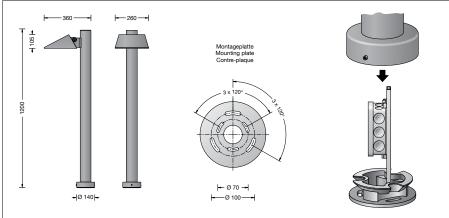
BEGA 84 107

Bollard IP 65

Project · Reference number

Date





#### Product data sheet

#### **Product description**

Luminaire made of aluminium alloy, aluminium and stainless steel

Safety glass

Silicone gasket

Reflector made of pure anodised aluminium Swivel range 90°

Luminaire with mounting plate for bolting onto a foundation or an anchorage unit

Mounting plate with two pitch circles:

70 mm, 3 elongated holes 7 mm wide
 100 mm, 3 elongated holes 9 mm wide
 Luminaire can be aligned on the mounting plate

Mounting bracket with connection box for through-wiring of up to  $5\times2,5^{\square}$  LED power supply unit

DC 176-276 V

around 360°

DALI controllable

A basic isolation exists between power cable and control line

BEGA Thermal Control®

Temporary thermal regulation to protect temperature-sensitive components without switching off the luminaire

Safety class I

Protection class IP 65

Dust-tight and protection against water jets

Impact strength IK08

Protection against mechanical impacts < 5 joule

C € – Conformity mark Weight: 7.0 kg

#### **Application**

Shielded LED bollard with asymmetrical light distribution for the illumination of squares, access roads and entry areas.

The luminaire housing is adjustable, allowing the light distribution to be adapted to the requirements of the installation site.

#### Lamp

Module connected wattage	19.4 W
Luminaire connected wattage	22.2 W
Rated temperature	t <sub>a</sub> =25 °C
Ambient temperature	t <sub>a max</sub> =50 °C

#### 84107K4

Module designation	LED-0872/940
Colour temperature	4000 K
Colour rendering index	CRI > 90
Module luminous flux	3310 lm
Luminaire luminous flux	2661 lm
Luminaire luminous efficiency	119,9 lm/W

#### 84 107 K3

Module designation	LED-0872/930
Colour temperature	3000 K
Colour rendering index	CRI > 90
Module luminous flux	3130 lm
Luminaire luminous flux	2516 lm
Luminaire luminous efficiency	113,3 lm/W

## Service life · Ambient temperature

Rated temperature t<sub>a</sub> = 25 °C

LED psu: > 50,000 h

LED module: > 200,000 h (L80 B 50) 100,000 h (L90 B 50)

Ambient temperature  $t_{a \text{ max}} = 50 \text{ °C (100 \%)}$ 

LED psu: 50,000h

LED module: 91,000h (L80B50) 100,000h (L70B50)

#### Inrush current

Inrush current:  $12 \text{ A} / 24.2 \,\mu\text{s}$  Maximum number of luminaires of this type per miniature circuit breaker:

B 10 A: 50 luminaires B 16 A: 50 luminaires C 10 A: 50 luminaires C 16 A: 50 luminaires

#### Light technique

Luminaire data for the light planning program DIALux for outdoor lighting, street lighting and indoor lighting as well as luminaire data in EULUMDAT- and IES-format you will find on the BEGA web page www.bega.com.

# Article No. 84 107

LED colour temperature optionally 4000 K or 3000 K

4000 K - Article number + K4

3000 K – Article number + **K3** 

Colour graphite or silver graphite – article number silver – article number + A

#### Accessory

**70 895** Anchorage unit with mounting flange made of hot-dip galvanised steel. Total length 400 mm. 3 stainless steel fixing screws M8. Pitch circle Ø 100 mm.

See the separate instructions for use.

#### **Light distribution**



# Center for Christian Study Expansion

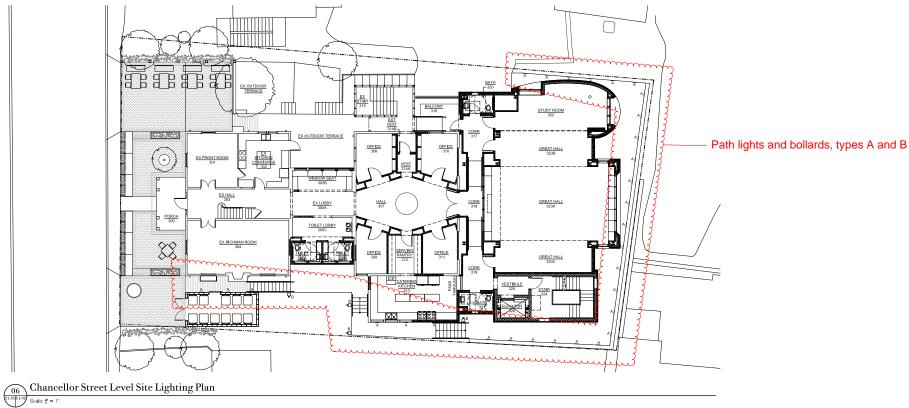
Center for Christian Study 128 Chancellor St Charlottesville, VA 22903

Site Lighting Supplemental Submission 09 October 2020

William Sherman Architects

Train Architects

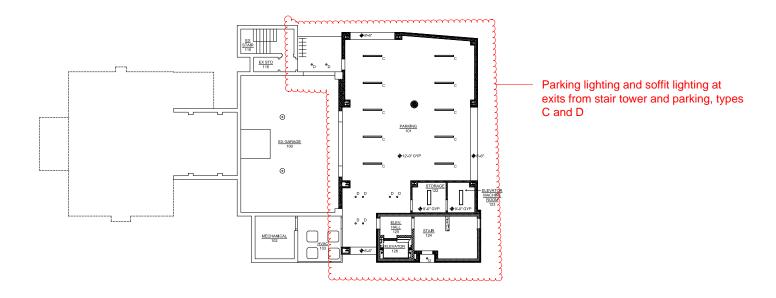
612 East Jefferson Street Charlottesville, Virginia 22902 ph 434.293.2965 fax 295.5122





North





Parking Level Lighting Reflected Ceiling Plan

| Scale: 2 = 1'









Design Development Documents 06 October 2020 Acrisco Popici Number 3002

William Sherman Architect
Train Architects
or to a second or the control of the c

Lower Level Lighting Reflected Ceiling Plan

E2.01

North



Type:

Project:

Modified:

**BEGA Product:** 

#### Application

LED recessed wall luminaire with asymmetrical light distribution for the illumination of ground surfaces, building entrances, stairs and footpaths.

#### Materials

Luminaire housing constructed of die-cast aluminum marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy Clear safety glass

Silicone applied robotically to casting, plasma treated for increased adhesion

High temperature silicone gasket

Mechanically captive stainless steel fasteners

Stainless steel screw clamps Composite installation housing

NRTL listed to North American Standards, suitable for wet locations

Protection class IP65 Weight: 2.1 lbs

#### Electrical

Operating voltage 120-277V AC Minimum start temperature -40° C LED module wattage 8.4 W System wattage 11.0 W

Controlability 0-10V, TRIAC, and ELV dimmable

Color rendering index Ra > 80

Luminaire lumens 480 lumens (3000K) LED service life (L70) 60,000 hours

#### LED color temperature

4000K - Product number + **K4** 3500K - Product number + **K35** 3000K - Product number + **K3** 2700K - Product number + **K27** Amber - Product number + **AMB** 

#### Wildlife friendly amber LED - Optional

Luminaire is optionally available with a narrow bandwidth, amber LED source (585-600nm) approved by the FWC. This light output is suggested for use within close proximity to sea turtle nesting and hatching habitats. Electrical and control information may vary from standard luminaire.

LED module wattage 8.7 W (Amber)
System wattage 10.7 (Amber)
Luminaire lumens 111 lumens (Amber)

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

## Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors Black (BLK) White (WHT) RAL:

Bronze (BRZ) Silver (SLV) CUS:



Fully enclosed luminaire with installation housing ensures seamless integration and weathertight operation.





LED recessed wall luminaires · asymmetrical				
	LED	А	В	С
33 055	8.4 W	121/2	23/4	5

**BEGA** 

Bollard

B

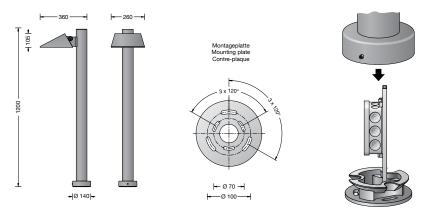
84 107

IP 65

Project · Reference number

Date





#### Product data sheet

#### **Product description**

Luminaire made of aluminium alloy, aluminium and stainless steel

Safety glass

Silicone gasket

Reflector made of pure anodised aluminium Swivel range 90°

Luminaire with mounting plate for bolting onto a foundation or an anchorage unit

Mounting plate with two pitch circles:

ø 70 mm, 3 elongated holes 7 mm wide ø 100 mm, 3 elongated holes 9 mm wide Luminaire can be aligned on the mounting plate around  $360^\circ$ 

Mounting bracket with connection box for through-wiring of up to  $5\times2,5^{\square}$  LED power supply unit

DC 176-276 V

DALI controllable

A basic isolation exists between power cable and control line

BEGA Thermal Control®

Temporary thermal regulation to protect temperature-sensitive components without switching off the luminaire

Safety class I

Protection class IP 65

Dust-tight and protection against water jets

Impact strength IK08

Protection against mechanical

impacts < 5 joule

C € – Conformity mark Weight: 7.0 kg

#### **Application**

Shielded LED bollard with asymmetrical light distribution for the illumination of squares, access roads and entry areas.

The luminaire housing is adjustable, allowing the light distribution to be adapted to the requirements of the installation site.

#### Lamp

Module connected wattage	19.4 W
Luminaire connected wattage	22.2 W
Rated temperature	t <sub>a</sub> =25 °C
Ambient temperature	t <sub>a max</sub> =50 °C

#### 84107K4

Module designation	LED-0872/940
Colour temperature	4000 K
Colour rendering index	CRI > 90
Module luminous flux	3310 lm
Luminaire luminous flux	2661 lm
Luminaire luminous efficiency	119,9 lm/W
Luminaire luminous efficiency	119,9 lm/

# 84 107 K3

Module designation	LED-0872/930
Colour temperature	3000 K
Colour rendering index	CRI > 90
Module luminous flux	3130 lm
Luminaire luminous flux	2516 lm
Luminaire luminous efficiency	113,3 lm/W

## Service life · Ambient temperature

Rated temperature t<sub>a</sub> = 25 °C

LED psu: > 50,000 h

LED module: > 200,000 h (L80 B 50) 100,000 h (L90 B 50)

Ambient temperature  $t_{a \text{ max}} = 50 \text{ °C (100 \%)}$ 

LED psu: 50,000h

LED module: 91,000 h (L80 B50) 100,000 h (L70 B50)

## Inrush current

Inrush current:  $12 \text{ A} / 24.2 \,\mu\text{s}$  Maximum number of luminaires of this type per miniature circuit breaker:

B 10 A: 50 luminaires B 16 A: 50 luminaires C 10 A: 50 luminaires C 16 A: 50 luminaires

#### Light technique

Luminaire data for the light planning program DIALux for outdoor lighting, street lighting and indoor lighting as well as luminaire data in EULUMDAT- and IES-format you will find on the BEGA web page www.bega.com.

# Article No. 84 107

LED colour temperature optionally  $4000\,\mathrm{K}$  or  $3000\,\mathrm{K}$ 

4000 K – Article number + **K4** 

3000 K - Article number + K3

Colour graphite or silver graphite – article number silver – article number + A

#### Accessory

**70 895** Anchorage unit with mounting flange made of hot-dip galvanised steel. Total length 400 mm. 3 stainless steel fixing screws M8. Pitch circle Ø 100 mm.

See the separate instructions for use.

#### **Light distribution**



Linear LED recessed ceiling luminaires with symmetric wide light distribution. The patent pending 'vortex reflector' rotates a parabolic reflector around the vertical axis to for a complex vortex shape. The vortex balances maximum efficiency with optimal glare control while eliminating shadows and artifacts in a uniquely rectangular shape.

#### Materials

Luminaire housing and trim constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy Clear safety glass

Reflector surface made of pure anodized aluminum

Silicone applied robotically to casting, plasma treated for increased adhesion

High temperature silicone gasket

Mechanically captive stainless steel fasteners

Stainless steel screw clamps

NRTL listed to North American Standards, suitable for wet locations

Protection class IP65 Weight: 14.1 lbs

Electrical

Operating voltage 120-277VAC
Minimum start temperature -20° C
LED module wattage 48.0 W
System wattage 55.0 W

Controllability 0-10V dimming down to 0.1%

Color rendering index Ra > 80

 Luminaire lumens
 5,880 lumens (3000K)

 Lifetime at Ta = 15° C
 369,000 h (L70)

 Lifetime at Ta = 35° C
 111,000 h (L70)

#### LED color temperature

4000K - Product number + **K4** 3500K - Product number + **K35** 3000K - Product number + **K3** 2700K - Product number + **K27** 

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

#### Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

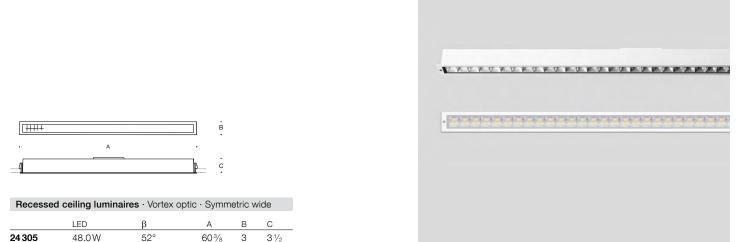
Available colors Black (BLK) White (WHT) RAL: Bronze (BRZ) Silver (SLV) CUS:

Type:

**BEGA Product:** 

Project:

Modified:



 $\beta$  = Beam angle



LED recessed ceiling luminaire with narrow beam light distribution designed for downlighting atriums, canopies, passages and other interior and exterior locations.

#### Materials

Luminaire housing and faceplate constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy Clear safety glass

Silicone optical collimating lens

Reflector surface made of pure anodized aluminum

High temperature silicone gasket

Stainless steel screw clamps

Galvanized steep rough in ceiling pan with through wiring box

NRTL listed to North American Standards, suitable for wet locations

Protection class IP65 Weight: 2.2 lbs

Electrical

Operating voltage 120-277V AC Minimum start temperature -20° C LED module wattage 8.3 W System wattage 9.7 W

Controlability 0-10V dimming down to 0.1%

Color rendering index Ra>80

 Luminaire lumens
 1,194 lumens (3000K)

 Lifetime at Ta=15°C
 >500,000 h (L70)

 Lifetime at Ta=45°C
 270,000 h (L70)

#### LED color temperature

4000K - Product number + **K4** 3500K - Product number + **K35** 3000K - Product number + **K3** 2700K - Product number + **K27** 

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

#### Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors Black (BLK) White (WHT) RAL:

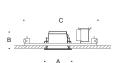
Bronze (BRZ) Silver (SLV) CUS:

Type:

**BEGA Product:** 

Project:

Modified:



LED recessed ceiling downlights · narrow beam						
	LED	β	А	В	С	
24817	8.3 W	21°	5 1/8	5	18	

 $\beta$  = Beam angle

