1. Approval Of December 19, 2018 Meeting Minutes
   Documents:
   12-19-18 MINUTES.PDF

2. Hill School Quadrivium
   Documents:
   HILL SCHOOL - QUADRIVIUM 02-2019.PDF
   HILL SCHOOL - CEG12212018REVIEWLETTER.PDF
   HILL SCHOOL - MCPC 12-0145-006R.PDF
   HILL SCHOOL - CEG12212018REVIEWLETTER.PDF

3. Public Comments

4. Old Business
   a. Blighted Property Committee
   b. Pottstown Regional Planning
   c. Keim Street Bridge Comments

5. New Business
   a. Subdivision-Land Development Ordinance Change: Comments, Recommendations
      Documents:
      ORD. CREATING NEW SECTION 204 402 OF CHAP. 22 SUB. AND LAND DEV_.PDF

6. Adjournment
POTTS TOWN BOROUGH PLANNING COMMISSION
Pottstown Borough Hall Council Chamber Room
100 E. High St Pottstown, PA 19464
Wednesday, December 19, 2018 7:00pm

Present Members:  Jim Derr, Chair
                   Dan Weand, Brian Hydier, Andrew Monastra and Thomas Hylton

Absent Members:   None

Additional Present: Charles Garner, Borough Solicitor
                   Brian Olszak, Montgomery County Planning Commission
                   Robert Flinchbaugh, Cedarville Engineering Group
                   Winter Stokes, Zoning Officer
                   Stephanie Drobins, Licensing & Inspections Inspector

Meeting called to order by Mr. Derr at 7:00pm

Approval of Minutes: October 2018 to be presented at next meeting for approval

1515 High St: Matt Chartrand from Bohler Engineering and Greg Winans from Family Dining Inc were present for the resubmission of the application with the landscape plan now included. Seven trees were added around the parking area and landscape areas in front. Additional low shrubs/mix of bushes & shrubs in a bed of river stone can be added but difficult to add any more large trees due to utilities. An updated waiver list was submitted to address the Cedarville review letter.

The waiver letter was then reviewed by the applicants and the Commission members. The waiver request for the parking lot landscaping has been removed. The remaining items on the Cedarville review letter that did not have a waiver request submitted will be complied with.

A discussion was had regarding the exterior renovations. Mr. Derr raised concerns regarding the proposed front playground area, mainly if any reinforcement has been added since that area is closest to the road. Per Mr. Chartrand, the landscaping & curbs provide a buffer.

Mr. Hylton is requesting to sub plain trees instead of honey locusts and no crab apple trees. Also requesting a payment in lieu of 6 trees ($500 each = $3000). Mr. Hydier suggested low sumac is good for shrubs.

There was also a discussion about using softer lighting.
A motion was made for preliminary final approval with conditions regarding compliance with the Cedarville review letter and the Montgomery County Planning Commission review letter, the fee in lieu of trees, the landscaping plan and the use of honey locusts. Motion made by Mr. Hylton, seconded by Mr. Weand. All in favor. A motion was made to approve the waiver letter with one correction. #8 on the list should be A528.7. Motion made by Mr. Hylton, seconded by Mr. Monastra. All in favor.

**71 Robinson St:** Nick Feola from Bursich Associates and Kathy Kumitis & Andy from Creative Health Services were present for the submission of the redevelopment plan. The plan is for an Enhanced Long Term Structured Residence. The property was purchased in May of 2018 and is the former Palladino Brothers Roofing. The building is currently 8700 square feet with 28 parking spaces, loading services, driveway access and no stormwater management on site. The proposed Facility will be state licensed and house up to 16 individuals with serious and persistent mental issues. The Facility will provide treatment and housing, and will function the same as their Facility at 11 Robinson St. The proposed plan is for the renovation of the existing building and construction of a 1600 square foot stand alone cottage. The plans include removal of the impervious coverage, addition of a recreation area, expansion of the parking lot and adding supplemental parking with a second entrance. The proposed uses were approved by Keith Place in a letter dated 5/11/2018, at which point he was acting Zoning Officer. The ordinance requires 17 parking spaces, Keith recommended 27 to 32 and the proposed plan allows for 29. A decorative fence is proposed around the recreation area and cottage.

Mr. Hylton questioned why so many parking spaces are needed. After discussion, it was determined the parking spaces could be reduced down to 17 to 20.

A discussion was held regarding staff and visitors. Mr. Hylton asked how many staff would be present at the facility. Per the Creative Health representatives, approximately 10. Mr. Monastra asked if the staff would live there – they will not, there is a rotating 24 hour staff. Mr. Hylton questioned if there would be visitors and yes, there will be some. Mr. Monastra questioned where the patients go after treatment. Per the Creative Health representatives, some will stay under end of life, some may transition to other housing but a 2 to 5 year stay is typical. There was also a brief discussion about plumbing and the increased output for a building with that many residents. Mr. Hylton questioned if there were any environmental issues – there are none.

Regarding the Cedarville review letter, the request to provide additional topography has been done. Regarding the Montgomery County Planning Commission review letter, a fee in lieu of open space is requested.

A lighting plan was submitted after the initial application but the applicants are willing to follow whatever lighting recommendations for the type of lighting. Creative Health has also offered a contribution towards a new traffic light.

A motion was made for preliminary final approval with conditions regarding compliance with the Cedarville review letter and the Montgomery County Planning Commission review letter, the fee in lieu of open space and reducing the number of parking spaces down to 17-20. Motion made by Mr. Monastra, seconded by Mr. Hylton. All in favor. A motion was made to approve the waiver letter. Motion made by Mr. Hylton, seconded by Mr. Monastra. All in favor.
860 Beech St: Robin Rhoads from The Hill School was present regarding the plan submitted for the Quadrivium Project, which is a 4 story, 17,000 square foot building that will be used to link two existing buildings. This project has already been approved by the Historic Architecture Review Board. At this time, no review letters have been submitted by either Cedarville or the Montgomery County Planning Commission and this project is only on the agenda to acknowledge receipt. Motion made by Mr. Weand to acknowledge receipt of the plan, seconded by Mr. Monastra. All in favor.

1432 High St:  Aaron Repucci and Dave Lisanti were present from the applicant for the Land Development waiver request. They are currently scheduled to go before Council on January 14, 2019 but wanted to meet with the Planning Commission as a courtesy to explain why the waiver was requested.

The parcel currently has 37 parking spaces and 60 square feet of open space. The proposal is to remove the unit where the Subway was and combine some of the remaining units. Dollar General is interested in a space there. Three Brothers Mexican Restaurant would get an expanded space with possible outdoor tables. Metro PCS would be moved to a different unit. King Pizza would get an expanded space for inside seating. The proposal includes moving the dumpster pads to add parking spaces and adding parking spaces to where Subway was located which would increase the parking spots to 41. The store fronts would also be updated. No variances are needed but some waivers are requested and the signage would be cleaned up. The applicants do not own the parcel yet, settlement is to occur pending Council approval.

Mr. Hylton is not in favor of waiving Land Development. Mr. Monastra agrees – Land Development helps the applicant. Mr. Weand and Mr. Derr are also in favor of Land Development. Mr. Hylton is requesting a more detailed plan. The applicants are willing to do that and email a copy to Winter Stokes, Zoning Officer, who will distribute to the Planning Commission members. There was also a discussion regarding the color scheme and possibly making changes to fit in with the Wawa and McDonald’s which are on either side.

Public Comments:  None.

Blighted Property Committee: The Blighted Property Committee has not met since the last Planning Commission meeting. The following addresses are still on hold until the next Planning Commission for the members to review and vote on:

- 418 Cherry St
- 450 South St
- 19 S Roland St
- 645 Walnut St
- 652 Spruce St

Pottstown Regional Planning: A meeting was held on December 6, 2018 and a review was done of the New Hanover report.

Keim Street Bridge comments: Moving through the renovation process, no change in any dates at this time.

New business: The Planning Commission meeting dates for 2019 were distributed for review. Motion was made by Mr. Weand to approve the dates, seconded by Mr. Hylton. All in favor.
Mr. Monastra opened a discussion regarding his disappointment at the approval of the 728 High St plan. He would like to look at using form based codes.

Mr. Hylton opened a discussion regarding the ordinance that references the number of parking spaces required. At this time, there is only a minimum number of spaces discussed in the ordinance and would like to see a maximum number of spaces added. A motion was made to suggest this and making changes to impervious coverage requirements to Council by Mr. Hylton, seconded by Mr. Monastra. All in favor.

**Adjournment:** The meeting was adjourned at 8:51pm.
## Electrical Lighting Fixture Schedule

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<th>Description</th>
<th>Manufacturer &amp; Catalog Number</th>
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BeveLED BLOCK® Downlight — BLRD5

**BEVELED BLOCK' DOWNLIGHT**

usallighting.com/block

Keep ceiling height right where it is! Specifically designed to work with surface-mounted conduit and junction boxes, BeveLED BLOCK has a modern look that's perfect for lofts, offices, and open architectural spaces. Also available with solid-sides styling shown above, Block also creates a finished look when recessed conduit is possible.

**FEATURES**
- High performance architectural lighting solution for industrial or exposed concrete ceiling types where recessed lighting is not an option
- Convenient conduit cutouts provide access for surface-mounted conduit to pass through the luminaire
- Smooth, modular solid and keyhole slots are interchangeable and user configurable to allow for simple on site customization in the field.
- BeveLED BLOCK is available in a range of standard and custom colors to complement your project, whether an industrial or refined look is desired.
- Industry leading illumination and craftsmanship

**BEVELED BLOCK DOWNLIGHT PERFORMANCE DATA**

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*Performance data based on 3000K, 80+ CRI

**CORRELATED COLOR TEMPERATURE**

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Page 1

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info@usallighting.com | F 845-561-1130 | USAI Lighting

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BeveLED BLOCK® Downlight — BLRD5

CC - CONDUIT CUTOUT MOUNTED

4” OCTAGONAL JUNCTION BOX DETAIL

4"Ø X 1-1/2” DEEP OCTAGON J-BOX (BY OTHERS)

4" octagonal junction box (by others)

3-1/2"

1/4"

1/2" or 3/4" conduit (by others)

solid cover key

Ceiling (by others)

conduit cutout key

3 provided with each CC style BLRD5

6-1/4"

5-3/4"

SOLID COVER KEY

CONDUIT CUTOUT KEY

CONDUIT CUTOUT MOUNTING EXAMPLE

Conduit End

Straight Conduit

L Conduit

T Conduit

SJ - Surface mount to surface mounted 4” octagonal i-box

SB - Surface mount to recessed mounted 4” octagonal i-box

Junction Box (1-1/2” deep, 4”Ø Octagon box by others)

3/4"

6-1/4"

2-1/2"

See drawing above for junction-box (by others) details.
# BeveLED BLOCK® Downlight — BLRD5

## Family
- **BLRD5**
- **12C3**
- **30KS**
- **50**
- **BF**
- **RAL**
- **RB**

## LED Color Choices
- **Classic White**
- **S Smoke**
- **BZ Statuari Bronze**
- **BL Black**
- **GR Metallic Grey**
- **SC Conduit Silver**
- **RAL Custom Color (specify RAL #)**

## Fixtures
- **UNV**
- **D2**

## Voltage Options
- **UNV 120-277V**
- **D2 0-120V, 10% Dim (provided standard)**

## Mouting Options
- **CC Conduit cutout for surface mounted 4" octagonal junction box**
- **SJ Surface mounted to surface mounted 4" octagonal junction box**

## BeveLED Block Specifications

**FIELD REPLACEABLE LED LIGHT ENGINE**
is serviceable without tools. All USAI Lighting Classic White and Warm Glow Dimming light engines feature industry-leading color consistency.

**FIELD REPLACEABLE DRIVER**
- 0-10V, 100%-10% solid state electronic constant current D2 dimming driver with a high power factor provided standard and sources 2mA. Other dimming drivers optionally available. D6 and D15 dimming drivers source 9mA. Driver complies with IEEE C62.41 surge protection. Some on-time delay may be experienced depending on control system used.

**FIXTURE WEIGHT**
- BeveLED Block weighs 5 lbs.

**BODY**
- 5-13/16" round die cast aluminum body available in a variety of powder coated paint finishes. Custom colors also available (provide RAL #).

## MOUNTING
**CC**: Conduct cutout mounting fixtures are designed to mount to surface-mounted 4" octagonal junction boxes with surface-mounted conduit connections. CC housings have 4 key slots, one in each side, and ship with one conduit cutout key and three solid cover keys installed in the housing. 2 additional conduit cutout keys are shipped with the fixture, and the different key types are interchangeable in the field. Please see installation instructions for drawings and more details.

**RB**: Recessed ceiling 4" octagonal junction box mounting fixtures are designed to mount to a ceiling retaining a recessed 4" octagonal junction box. The sides are solid and have no cutouts, please see drawings and installation instructions for more details.

**SJ**: Surface mounted 4" octagonal junction box mounting fixtures are designed to mount to a surface-mounted junction box that has electrical supply coming from the plenum (no surface-mounted conduit). The sides are solid and have no cutouts, please see drawings and installation instructions for more details.

## Warranty

Based on IESNA LM80-2008, BeveLED Block has a 60,000 hour rated life at 70% lumen maintenance. USAI Lighting Warranty covers replacement parts for 5 years from date of shipment.

### Listings
- Dry/Damp/Wet for RB and SJ mounting. CC mounting style is dry/damp only. NRTL/CSA-US tested to UL standards. IBEW union made.

### Notes
- Ambient temperatures at fixture location should not exceed 40°C during normal operation.
- Consult factory for video capture applications.

### Photometrics
Consult factory or website for IES files. Tested in accordance with IESNA LM79. www.usalighting.com/block

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info@usallighting.com  1126 River Road  New Windsor, NY 12553

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DIMMING DRIVER COMPATIBILITY
SELECTION GUIDE
D3 / DIML3

NOTES:
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

IMPORTANT SAFETY INSTRUCTIONS
- SAVE THESE INSTRUCTIONS
1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D3 / DIML3 LED: Lutron Hi-Lume A-Series 2 Wire Fwd Phase (with neutral) / LED Dimming Driver Wiring (Dims down to 1%) 120V

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<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
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<th>Qty Fixtures Per Dimmer*</th>
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<td>ELV10</td>
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<td>100% - 1%</td>
<td>1 - 8</td>
<td>1 - 4</td>
</tr>
<tr>
<td>Lutron</td>
<td>Radiant® 2 adaptive dimmer</td>
<td>RRD-4NA-</td>
<td>100% - 1%</td>
<td>1 - 8</td>
<td>1 - 4</td>
</tr>
<tr>
<td>Lutron</td>
<td>Radiant® 2 1000W V dimmer</td>
<td>RRD-10ND-</td>
<td>100% - 1%</td>
<td>1 - 6</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Lutron</td>
<td>myRoom DIN power module</td>
<td>MPS-4A1-D-</td>
<td>100% - 1%</td>
<td>1 - 8</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Lutron</td>
<td>HomeWorks®2 DIN wallbox power module</td>
<td>HDS-1-WPM-60-120-</td>
<td>100% - 1%</td>
<td>1 - 28</td>
<td>1 - 13</td>
</tr>
<tr>
<td>Lutron</td>
<td>HomeWorks®2 DIN wallbox power module</td>
<td>HWS-1-WPM-60-120-</td>
<td>100% - 1%</td>
<td>1 - 28</td>
<td>1 - 13</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye® 2D control unit</td>
<td>GSGR-</td>
<td>100% - 1%</td>
<td>1 - 28</td>
<td>1 - 13</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye® 3000 control unit</td>
<td>GRX-3100-</td>
<td>100% - 1%</td>
<td>1 - 25</td>
<td>1 - 13</td>
</tr>
<tr>
<td>Lutron</td>
<td>RPM-4U module</td>
<td>HW-RPM-4U-120, LP-RPM-4U-120</td>
<td>100% - 1%</td>
<td>1 - 25</td>
<td>1 - 13</td>
</tr>
<tr>
<td>Lutron</td>
<td>RPM-4A module</td>
<td>HW-RPM-4A-120, LP-RPM-4A-120</td>
<td>100% - 1%</td>
<td>1 - 28</td>
<td>1 - 13</td>
</tr>
<tr>
<td>Lutron</td>
<td>GR dimming panel</td>
<td>U4025-</td>
<td>100% - 1%</td>
<td>1 - 28</td>
<td>1 - 13</td>
</tr>
<tr>
<td>Lutron</td>
<td>Axiom CL 20W dimmer</td>
<td>AYCL-2025P-</td>
<td>100% - 1%</td>
<td>1 - 8</td>
<td>1 - 4</td>
</tr>
<tr>
<td>Lutron</td>
<td>Diva CL 20W dimmer</td>
<td>DVLCD-2025P-</td>
<td>100% - 1%</td>
<td>1 - 8</td>
<td>1 - 4</td>
</tr>
<tr>
<td>Lutron</td>
<td>Grafik T CL or R CL dimmer</td>
<td>GT-250M, GTJ-250M-</td>
<td>100% - 1%</td>
<td>1 - 8</td>
<td>1 - 4</td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova SL CL 25W dimmer</td>
<td>NTCL-250-</td>
<td>100% - 1%</td>
<td>1 - 10</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

* NOTE: Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

D3 / DIML3
2 WIRE PHASE DIMMING

DIMMER: 2 WIRE PHASE
(BY OTHERS)  FIXTURE

LINE  SWITCHED HOT  DRIVER
GROUND  BLACK  V
NEUTRAL  BEIGE  RED  V
ONLY FOR SWITCHES WITH NEUTRAL  OVD  BLACK
# DIMMING DRIVER COMPATIBILITY SELECTION GUIDE

## D4 / DIML4

### DIMMING DRIVER WIRING SCHEMES:

**NOTES:**
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

### IMPORTANT SAFETY INSTRUCTIONS

- **SAVE THESE INSTRUCTIONS**
  1. Keep these instructions in a safe place for future reference.
  2. Only qualified electricians in accordance to local codes should install these fixtures.
  3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
  4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
  5. Cap any wires not used separately (not together).

### D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Control*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>120V Only</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETC</td>
<td>Sensor+ Cabinet</td>
<td>D20 Dimming module</td>
<td>100% - 1%</td>
<td>1-33</td>
</tr>
<tr>
<td>ETC</td>
<td>Union Orb Cabinet</td>
<td>D20 Dimming module</td>
<td>100% - 1%</td>
<td>1-33</td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova T</td>
<td>NTF-10P</td>
<td>100% - 1%</td>
<td>1-41</td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova T</td>
<td>NTF-100P</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova</td>
<td>NF-10P</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova</td>
<td>NF-100P</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>Vari</td>
<td>VP-10P</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>Skylark</td>
<td>SF-10P, SF-100P</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>Diva</td>
<td>DVF-10P, DVF-100P</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>Aviatrix</td>
<td>AVF-10P</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>Vari</td>
<td>VTF-10A</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>Master</td>
<td>MAF-6AM, MAF-6AM</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>Master Wireless</td>
<td>MF2-FAN-DV</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>RadioRA 2</td>
<td>RNA-FAN-DV</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>HomeWorks QS</td>
<td>HDRD-FAN-DV</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>Interfaces</td>
<td>PHPM-3F-DV, PHPM-3F-DV</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
<tr>
<td>Lutron</td>
<td>GP Dimming Panels</td>
<td>Various</td>
<td>100% - 1%</td>
<td>1-20</td>
</tr>
</tbody>
</table>

| **277V Only** |         |             |                           |                           |
| ETC          | Sensor+ Cabinet | D20 Dimming module | 100% - 1% | 1-33 |
| ETC          | Union Orb Cabinet | D20 Dimming module | 100% - 1% | 1-33 |
| Lutron       | Nova T   | NTF-10P     | 100% - 1% | 1-41 |
| Lutron       | Nova T   | NTF-100P    | 100% - 1% | 1-20 |
| Lutron       | Nova     | NF-10P      | 100% - 1% | 1-20 |
| Lutron       | Nova     | NF-100P     | 100% - 1% | 1-20 |
| Lutron       | Skylark | SF-12P, SF-277/3 | 100% - 1% | 1-33 |
| Lutron       | Diva    | DVF-10P, DVF-277/3, DVFSC-10P-277/3 | 100% - 1% | 1-33 |
| Lutron       | Aviatrix | AVF-10P, AVF-277 | 100% - 1% | 1-33 |
| Lutron       | Vari    | VTF-10A | 100% - 1% | 1-33 |
| Lutron       | Master  | MAF-6AM, MAF-6AM | 100% - 1% | 1-33 |
| Lutron       | Master Wireless | MF2-FAN-DV | 100% - 1% | 1-33 |
| Lutron       | RadioRA 2 | RNA-FAN-DV | 100% - 1% | 1-33 |
| Lutron       | HomeWorks QS | HDRD-FAN-DV | 100% - 1% | 1-33 |
| Lutron       | Interfaces | PHPM-3F-DV, PHPM-3F-DV | 100% - 1% | 1-33 |
| Lutron       | GP Dimming Panels | Various | 100% - 1% | 1-33 |

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

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**DIML4 wiring diagrams continued on next page**
DIMMING DRIVER COMPATIBILITY
SELECTION GUIDE
D4 / DIML4 Continued

DIMMING DRIVER WIRING SCHEMES:

NOTES:
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

IMPORTANT SAFETY INSTRUCTIONS
- SAVE THESE INSTRUCTIONS
1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)

D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with EcoSystem Control / LED Dimming Driver Wiring (Dims down to 1%)

### D4 / DIML4 EcoSystem Dimmer Compatibility Chart

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product Description</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th># Fixtures Per Control*</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lutron</td>
<td>PowPak dimming module</td>
<td>RM1-EC32-DV-B</td>
<td>100%–1%</td>
<td>1–32</td>
<td>30W and Less</td>
</tr>
<tr>
<td>Lutron</td>
<td>Energi Saur Node</td>
<td>GSN-1ECO-S, GSN-2ECO-S</td>
<td>100%–1%</td>
<td>1–32</td>
<td>1–16</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye GS 120V ON/1V</td>
<td>GSG120- E, GSGR- E</td>
<td>100%–1%</td>
<td>1–32</td>
<td>1–32</td>
</tr>
<tr>
<td>Lutron</td>
<td>Quantum</td>
<td>Various</td>
<td>100%–1%</td>
<td>1–32</td>
<td>1–32</td>
</tr>
</tbody>
</table>

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

D4 / DIML4 EcoSystem CONTROLS

---

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**DIMMING DRIVER WIRING SCHEMES:**

**NOTES:**
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

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5. Cap any wires not used separately (not together).

### D4E / DIML4E LED: Lutron S Series EcoSystem LED Driver / LED Dimming Driver Wiring (Dims down to 5%)

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product Description</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Control***</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V / 277V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>PowPak dimming module</td>
<td>100% - 5%</td>
<td>1 - 32</td>
<td>39W and Less</td>
</tr>
<tr>
<td>Lutron</td>
<td>Energy Saver Node</td>
<td>100% - 5%</td>
<td>1 - 64</td>
<td>40W - 80W</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye GS (120V ONLY)</td>
<td>100% - 5%</td>
<td>1 - 64</td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>Quantum</td>
<td>Various</td>
<td>1 - 94</td>
<td></td>
</tr>
</tbody>
</table>

*Note: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

### D4H / DIML4H LED: Lutron H Series EcoSystem LED Driver with Fade to Black (dims down to 1%)

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product Description</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Control***</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V / 277V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>PowPak dimming module</td>
<td>100% - 1%</td>
<td>1 - 32</td>
<td>39W and Less</td>
</tr>
<tr>
<td>Lutron</td>
<td>Energy Saver Node</td>
<td>100% - 1%</td>
<td>1 - 64</td>
<td>40W - 80W</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye GS (120V ONLY)</td>
<td>100% - 1%</td>
<td>1 - 64</td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>Quantum</td>
<td>Various</td>
<td>1 - 94</td>
<td></td>
</tr>
</tbody>
</table>

*Note: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

### D4E / DIML4E and D4H / DIML 4H EcoSystem CONTROLS

![Diagram of EcoSystem CONTROLS](image-url)
DIMMING DRIVER COMPATIBILITY SELECTION GUIDE
D6A / DIML6A and D6E / DIML6E
D6B / DIML6B and D6F / DIML6F

IMPORTANT SAFETY INSTRUCTIONS
- SAVE THESE INSTRUCTIONS
1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D6A / DIML6A and D6F / DIML6F LED Dimming Compatibility Table
D6A / DIML6A and D6F / DIML6F are linearly-programmed dimming drivers for use with logarithmic-style dimming controls (e.g., Lutron and others listed in the table below).
D6A / DIML6A = EldoLED SOLOnode 0-10V control dims from 100% to 0.1%
D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to 1%

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Dimmer*</th>
<th>Refer to manufacturer's dimmer load rating for maximum and minimum fixture quantities per dimmer.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lutron</td>
<td>Diva</td>
<td>DVTY/NTV with PP-20</td>
<td>99% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova T</td>
<td>NTFL TV with PP-20</td>
<td>99% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>Energy Savr Node</td>
<td>GSN-4T18-S</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>GP Dimming Panels</td>
<td>TVM2 Modules</td>
<td>99% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>Interfaces</td>
<td>GB-7040 w/ GBX503</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td>Enlightened compatible.</td>
</tr>
<tr>
<td>Sensor Switch</td>
<td>nido</td>
<td>nito EZ</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>enlightened</td>
<td>Control Unit</td>
<td>CU-3E-1R</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table
D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with linear-style dimming controls (e.g., Crestron, non-Lutron and others listed below).
D6B / DIML6B = EldoLED SOLOnode 0-10V control dims from 100% to 0.1%
D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to 1%

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Dimmer*</th>
<th>Refer to manufacturer's dimmer load rating for maximum and minimum fixture quantities per dimmer.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bush-Jaeger</td>
<td>Electronic potentiometer</td>
<td>211U-101</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jung</td>
<td>Electronic potentiometer</td>
<td>249-10</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leviton</td>
<td>BiNA Tech dimmer</td>
<td>IP7000-0X</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lightolier (Philips)</td>
<td>Momentum (120V ONLY)</td>
<td>29600FAM1/29</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meriton</td>
<td>Electronic potentiometer</td>
<td>9700</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pape &amp; Seymew</td>
<td>Tran</td>
<td>CD48-2W</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Watt Stopper</td>
<td>Mico</td>
<td>DCLA</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Synergy</td>
<td>Wallbox Dimmers</td>
<td>ISD BC</td>
<td>100% - 0.1% 1%</td>
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<td></td>
</tr>
<tr>
<td>AGB</td>
<td>i-bus</td>
<td>SD/JS 2016-12-1</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td>Enlightened compatible.</td>
</tr>
<tr>
<td>Crestron</td>
<td>Modules</td>
<td>GLX-DIMFLV, GLXP-DIMFLV</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crestron</td>
<td>Green Light</td>
<td>GLPAC-DIMFLV4, CLPP-DIMFLV8-</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crestron</td>
<td>Green Light Power Pack</td>
<td>GLCPP-DIMFLV-EX, CLPP-DIMFLV8-EX, CLPP-DIMFLV3EX-PM, CLPP-DIMFLV3EX-PM</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crestron</td>
<td>DIN Rail Analog Output Module</td>
<td>DIN-0096</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crestron</td>
<td>DIN Rail 0-10V Fluorescent Dimmer</td>
<td>DIN-0040FLV4</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crestron</td>
<td>iLux 0-10V Dimmer Expansion Module</td>
<td>CLS-EXP-DIMFLV</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>enlightened</td>
<td>Control Unit</td>
<td>CU-3E-1R</td>
<td>100% - 0.1% 1%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DIMMING DRIVER WIRING SCHEMES:
NOTES: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.
DIMMING DRIVER WIRING SCHEMES:

NOTES:
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IMPORTANT SAFETY INSTRUCTIONS
- SAVE THESE INSTRUCTIONS
1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D7 / DIML7 and D7E Dimming Driver Wiring
D7 / DIML7 and D7E are linearly programmed dimming drivers.
D7 / DIML7 = EldoLED SOLOdrive DALI control dims from 100% to 0.1%
D7E = EldoLED ECOdrive DALI control dims from 100% to 1%

D7 / DIML7 / D7E
DALI CONTROLS
DIMMING DRIVER WIRING SCHEMES:

NOTES:
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5. Cop any wires not used separately (not together).

D19 / DIML19 LED: Hatch XTC series or equivalent - Forward and Reverse Phase Dimming Driver. Dims down to 1% contingent upon dimmer specification and load. 120V only.

D19 / DIML19
2 WIRE PHASE DIMMING

D19 / DIML19 Dimmer Compatibility Chart

<table>
<thead>
<tr>
<th>120V ONLY Forward Phase / TRIAC Dimming</th>
<th>Qty Fixtures Per Dimmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Product</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>120V ONLY Reverse Phase / ELV Dimming</th>
<th>Qty Fixtures Per Dimmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Product</td>
</tr>
</tbody>
</table>

| Manufacturer | Product | sheet to determine |
| Leviton | EL-01 | number of fixtures |
| Lutron | NT-ELV-300 | number of fixtures |
| Lutron | NT-ELV-500 | number of fixtures |
| Lutron | SELV-300P | number of fixtures |
| Lutron | SELV-503P | number of fixtures |
| Lutron | DVELV-900P | number of fixtures |
| Lutron | DVELV-903P | number of fixtures |
| Lutron | DVELV-903P | number of fixtures |
BevelLED BLOCK® Downlight — BLRD5

**BEVELED BLOCK® DOWNLIGHT**

Keep ceiling height right where it is! Specifically designed to work with surface-mounted conduit and junction boxes, BevelLED BLOCK has a modern look that's perfect for lofts, offices, and open architectural spaces. Also available with solid-sides styling shown above, Block also creates a finished look when recessed conduit is possible.

**FEATURES**
- High performance architectural lighting solution for industrial or exposed concrete ceiling types where recessed lighting is not an option
- Convenient conduit cutouts provide access for surface-mounted conduit to pass through the luminaire
- Smooth, modular solid and keyhole slots are interchangeable and user configurable to allow for simple on site customization in the field.
- BevelLED BLOCK is available in a range of standard and custom colors to complement your project, whether an industrial or refined look is desired.
- Industry leading illumination and craftsmanship

**BEVELED BLOCK DOWNLIGHT PERFORMANCE DATA**

<table>
<thead>
<tr>
<th>DELIVERED** PERFORMANCE:</th>
<th>9W</th>
<th>12W</th>
<th>16W</th>
<th>24W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Rendering Index</td>
<td>80+ 90+</td>
<td>90+ 90+</td>
<td>80+ 90+</td>
<td>80+ 90+</td>
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<tr>
<td>Source Lumens</td>
<td>1150 900</td>
<td>1300 1025</td>
<td>1725 1350</td>
<td>2400 1875</td>
</tr>
<tr>
<td>Lumens Per Watt</td>
<td>93 68</td>
<td>86 67</td>
<td>86 67</td>
<td>80 63</td>
</tr>
<tr>
<td>Delivered Lumens</td>
<td>775 600</td>
<td>1025 800</td>
<td>1375 1075</td>
<td>1925 1500</td>
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</table>

*Performance data based on 3000K, 80+ CRI

<table>
<thead>
<tr>
<th>CORRELATED COLOR TEMPERATURE</th>
<th>2200K</th>
<th>2700K</th>
<th>3000K</th>
<th>3500K</th>
<th>4000K</th>
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<tbody>
<tr>
<td>Color Rendering Index</td>
<td>80+</td>
<td>80+ 90+</td>
<td>80+ 90+</td>
<td>80+</td>
<td>80+</td>
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<tr>
<td>Multiplier for Lumen Output</td>
<td>0.94 0.78</td>
<td>1.00 0.78</td>
<td>1.00</td>
<td>1.06</td>
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usallighting.com/BLRD5

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**BEVELED BLOCK® DOWNLIGHT - CONDUIT CUT OUT**
BeveLED BLOCK® Downlight – BLRD5

CC - CONDUIT CUTOUT MOUNTED

4" OCTAGONAL JUNCTION BOX DETAIL

4" octagonal junction box (by others)

1/2" or 3/4" conduit (by others)

3/4" Ø conduit cutout key

6/0" SOLID COVER KEY

3 provided with each CC style BLRD5

CONDUIT CUTOUT KEY

3 provided with each CC style BLRD5

3-1/2" 1-1/2"

4" Ø x 1-1/2" deep octagon j-box (by others)

CONDUIT CUTOUT MOUNTING EXAMPLE

Conduit End

Straight Conduit

L Conduit

T Conduit

SJI - Surface mount to surface mounted 4" octagonal j-box

SJII - Surface mount to recessed mounted 4" octagonal j-box

See drawing above for junction-box (by others) details.

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Revised 11/21/2018
# BeveLED BLOCK® Downlight — BLRD5

## Family

<table>
<thead>
<tr>
<th>BLRD5</th>
<th>12C3</th>
<th>30KS</th>
<th>50</th>
<th>BF</th>
<th>RAL</th>
<th>SJ</th>
<th>UNV</th>
<th>D2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeveLED Block Downlight</td>
<td>Wattage Options</td>
<td>LED Color Temperature Options</td>
<td>Beam Options</td>
<td>Lens Options</td>
<td>Body Finish Options</td>
<td>Mounting Options</td>
<td>Voltage Options</td>
<td>Dimming Driver Options</td>
</tr>
<tr>
<td>08C3</td>
<td>9W LED</td>
<td>Classic White</td>
<td>25&quot; 25° beam</td>
<td>S Solite (provided standard)</td>
<td>WH White</td>
<td>CC Conduit cutout for surface mounted 4&quot; octagonal junction box</td>
<td>UNV 120V-277V</td>
<td>For use with CC and SJ Mounting</td>
</tr>
<tr>
<td>12C3</td>
<td>12W LED</td>
<td></td>
<td>50&quot; 50° beam</td>
<td>BF Borosilicate Frosted</td>
<td>DZ Statutory Bronze</td>
<td>SJ Surface mounted to recessed mounted 4&quot; octagonal junction box</td>
<td>D2 0-10V dim, 10% (provided standard)</td>
<td></td>
</tr>
<tr>
<td>16C3</td>
<td>16W LED</td>
<td></td>
<td>60&quot; 90° beam</td>
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<td>BL Black</td>
<td></td>
<td>120V</td>
<td>For use with 120V only</td>
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<tr>
<td>24C3</td>
<td>24W LED</td>
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<td></td>
<td></td>
<td>GR Metallic Grey</td>
<td></td>
<td>D19 Phase dimming, 1%, 120V only (1, 3)</td>
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<tr>
<td>35KS</td>
<td>3500K, 80+ CRI</td>
<td>Warm Glow Dimming</td>
<td></td>
<td></td>
<td>SC Conduit Silver</td>
<td></td>
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<tr>
<td>40KS</td>
<td>4000K, 80+ CRI</td>
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<td></td>
<td>RAL Custom Color (specify RAL #)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## BeveLED BLOCK Specifications

### Field Replaceable LED Light Engine

is serviceable without tools. All USAI Lighting Classic White and Warm Glow Dimming light engines feature industry-leading color consistency.

### Field Replaceable Driver

0-10V, 100% 10% solid state electronic constant current D2 dimming driver with a high power factor provided standard and sources 2mA. Other dimming drivers optionally available. D6 and D15 dimming drivers source 2mA. Driver complies with IEEE C62.41 surge protection. Some on-time delay may be experienced depending on control system used.

### Fixture Weight

BeveLED Block weights 5 lbs

### Body

5-13/16" round die cast aluminum body available in a variety of powder coated paint finishes. Custom colors also available (provide RAL #).

### MOUNTING

**CC:** Conduit cutout mounting fixtures are designed to mount to surface-mounted 4" octagonal junction boxes with surface-mounted conduit connections. CC housings have 4 keyslots, one in each side, and ship with one conduit cutout key and three solid cover keys installed in the housing. 2 additional conduit cutout keys are shipped with the fixture, and the different key types are interchangeable in the field. Please see installation instructions for drawings and more details.

**RB:** Recessed ceiling 4" octagonal junction box mounting fixtures are designed to mount to a ceiling retaining a recessed 4" octagonal junction box. The sides are sold and have no cutouts, please see drawings and installation instructions for more details.

**SJ:** Surface mounted 4" octagonal junction box mounting fixtures are designed to mount to a surface-mounted junction box that has electrical supply coming from the plenum (no surface-mounted conduit). The sides are sold and have no cutouts, please see drawings and installation instructions for more details.

### WARRANTY

Based on IESNA LM80-2008, BeveLED Block has a 50,000 hour rated life at 70% lumen maintenance (70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment.

### LISTINGS

Dry/Damp/Vet for RB and SJ mounting. CC mounting style is dry/damp only. NRTL/CSA-US tested to UL standards. IBEW union made.

### NOTES

- Ambient temperatures at fixture location should not exceed 40°C during normal operation.
- Consult factory for video capture applications.

### PHOTOMETRICS

Consult factory or website for IES files. Tested in accordance with IESNA LM79. www.usalighting.com/block

---

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DIMMING DRIVER COMPATIBILITY
SELECTION GUIDE
D3 / DIML3

DIMMING DRIVER WIRING SCHEMES:

NOTES:
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS
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D3 / DIML3 LED: Lutron Hi-Lume A-Series 2 Wire FwD Phase (with neutral) / LED Dimming Driver Wiring (Dims down to 1%) 120V

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Dimmer*</th>
<th>Fixture Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETC</td>
<td>Sensor+ Cabinet</td>
<td>ELV10</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>ETC</td>
<td>Union DRL Cabinet</td>
<td>ELV10</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>Maestro Wireless® 600W dimmer</td>
<td>MRF2-END-120-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>Maestro Wireless® 1000W dimmer</td>
<td>MRF2-END-100W-120-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>HomeWorks® QS adaptive dimmer</td>
<td>HQRD-4NA-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>HomeWorks® QS 600W dimmer</td>
<td>HQRD-4ND-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>HomeWorks® QS 1000W dimmer</td>
<td>HQRD-10ND-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>Caseta Wireless® Pro 1000W dimmer</td>
<td>PD-10NDR-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
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<tr>
<td>Lutron</td>
<td>Stanza® dimmer</td>
<td>SQ-2ND-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>RadioRA® 2 adaptive dimmer</td>
<td>RR-2NA-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>RadioRA® 2 1000W dimmer</td>
<td>RR-10ND-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>myRoom DIN power module</td>
<td>MQSE-4A1-D</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>HomeWorks® QS wallbox power module</td>
<td>HQRI-WPM-60-120-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>HomeWorks® wallbox power module</td>
<td>HQRI-WPM-60-100W-120-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye® QS control unit</td>
<td>DSRR-400RA-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye® 300W control unit</td>
<td>GRX-330S-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
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<tr>
<td>Lutron</td>
<td>RPM-4U module</td>
<td>HW-RPM-4U-120, LP-RPM-4U-120</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
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<tr>
<td>Lutron</td>
<td>RPM-4A module</td>
<td>HW-RPM-4A-120, LP-RPM-4A-120</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
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<tr>
<td>Lutron</td>
<td>OP dimming panel</td>
<td>Various</td>
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<td>40W - 60W</td>
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<tr>
<td>Lutron</td>
<td>Aranini CL 200W dimmer</td>
<td>AYCL-20SP-</td>
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<td>40W - 60W</td>
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<tr>
<td>Lutron</td>
<td>Diva CL 250W dimmer</td>
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<td>40W - 60W</td>
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<td>Lutron</td>
<td>Grafik T CL or RF CL dimmer</td>
<td>CT-250W, GTL-250W-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
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<td>Lutron</td>
<td>Nova T CL 250W dimmer</td>
<td>NTC-250F-</td>
<td>100% - 1%</td>
<td>1 - 26</td>
<td>40W - 60W</td>
</tr>
</tbody>
</table>

* NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

D3 / DIML3
2 WIRE PHASE DIMMING

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E2-265-3 Revised 03/22/2017
**DIMMING DRIVER COMPATIBILITY SELECTION GUIDE**

**D4 / DIML4**

**DIMMING DRIVER WIRING SCHEMES:**

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  5. Cap any wires not used separately (not together).

**D4 / DIML4 LED:** Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>D4 / DIML4 3-Wire Dimmer Compatibility Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>120V Only</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETC</td>
<td>Sensor+ Cabinet</td>
<td>D20 Dimming module</td>
</tr>
<tr>
<td>ETC</td>
<td>Union DBd Cabinet</td>
<td>D20F Dimming module</td>
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<td>Nova T</td>
<td>NTF-10</td>
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<td>Nova T</td>
<td>NTF-10P-</td>
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<td>Nova</td>
<td>NF-10-</td>
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<td>Nova</td>
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<td>Venetor</td>
<td>VC-10-</td>
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<td>Skylark</td>
<td>SS-10P-, SF-100P-</td>
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<td>Diva</td>
<td>DVF-103P-, DVSCF-103P-</td>
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<td>AYF-10P-</td>
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<td>Interfaces</td>
<td>PHPM-3F-120, PHPM-3F-DV</td>
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<td>Union DBd Cabinet</td>
<td>D20F Dimming module</td>
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<td>Nova T</td>
<td>NTF-10-277-</td>
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<tr>
<td>Lutron</td>
<td>Nova T</td>
<td>NTF-10P-277-</td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova</td>
<td>NF-10-277-</td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova</td>
<td>NF-10P-277-</td>
</tr>
<tr>
<td>Lutron</td>
<td>Skylark</td>
<td>SF-12P-277-, SF-12P-277-3</td>
</tr>
<tr>
<td>Lutron</td>
<td>Diva</td>
<td>DVF-103P-277-, DVSCF-103P-277-</td>
</tr>
<tr>
<td>Lutron</td>
<td>Avanti</td>
<td>AYF-10P-277-</td>
</tr>
<tr>
<td>Lutron</td>
<td>Varies</td>
<td>VTF-5A-</td>
</tr>
<tr>
<td>Lutron</td>
<td>Maestro</td>
<td>MF-6AM-277-, MSCF-6AM-277-</td>
</tr>
<tr>
<td>Lutron</td>
<td>Maestro Wireless</td>
<td>MR92-FAN-DV-</td>
</tr>
<tr>
<td>Lutron</td>
<td>RadioRA 2</td>
<td>RRD-FAN-DV-</td>
</tr>
<tr>
<td>Lutron</td>
<td>HomeWorks OS</td>
<td>HSQ50-FAN-DV</td>
</tr>
<tr>
<td>Lutron</td>
<td>Interfaces</td>
<td>PHPM-3F-DV</td>
</tr>
<tr>
<td>Lutron</td>
<td>GP Dimming Panels</td>
<td>Various</td>
</tr>
</tbody>
</table>

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.
DIMMING DRIVER WIRING SCHEMES:

NOTES:
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS
- SAVE THESE INSTRUCTIONS
1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)

D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with EcoSystem Control / LED Dimming Driver Wiring (Dims down to 1%)

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Control*</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V / 277V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>PowPak dimming module</td>
<td>PML-ECO32-DV-B</td>
<td>100%–1%</td>
<td>1–32</td>
<td>1–16</td>
</tr>
<tr>
<td>Lutron</td>
<td>EnergSaur Node</td>
<td>OSN-1ECO-S, OSN-2ECO-S</td>
<td>100%–1%</td>
<td>1–32</td>
<td>1–32</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye GS (120V ONLY)</td>
<td>GS33L- E, GS3R- E</td>
<td>100%–1%</td>
<td>1–32</td>
<td>1–32</td>
</tr>
<tr>
<td>Lutron</td>
<td>Quantum</td>
<td>Various</td>
<td>100%–1%</td>
<td>1–32</td>
<td>1–32</td>
</tr>
</tbody>
</table>

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

D4 / DIML4 EcoSystem CONTROLS
DIMMING DRIVER WIRING SCHEMES:

NOTES:
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

IMPORTANT SAFETY INSTRUCTIONS
- SAVE THESE INSTRUCTIONS
1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D4E / DIML4E LED: Lutron 5 Series EcoSystem LED Driver / LED Dimming Driver Wiring (Dims down to 5%)

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Control*</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V / 277V</td>
<td>PowPak dimming module</td>
<td>RMLEC032-UV-B</td>
<td>100%-5%</td>
<td>1-32</td>
<td>35W and Less</td>
</tr>
<tr>
<td>Lutron</td>
<td>Energy Saver Node</td>
<td>QSN-1ECQ-S, QSN-2ECQ-S</td>
<td>100%-5%</td>
<td>1-64</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye OS (120V ONLY)</td>
<td>QSN-5W-E, QSN-6W-E</td>
<td>100%-5%</td>
<td>1-64</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>Grafix quantum</td>
<td>Various</td>
<td>100%-5%</td>
<td>1-64</td>
<td>40W - 60W</td>
</tr>
</tbody>
</table>

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

D4H / DIML4H LED: Lutron H Series EcoSystem LED Driver with Fade to Black (dims down to 1%)

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Control*</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V / 277V</td>
<td>PowPak dimming module</td>
<td>RMHEL032-DV-B</td>
<td>100%-1%</td>
<td>1-32</td>
<td>35W and Less</td>
</tr>
<tr>
<td>Lutron</td>
<td>Energy Saver Node</td>
<td>QSHN-1ECQ-S, QSN-2ECQ-S</td>
<td>100%-1%</td>
<td>1-64</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye OS (120V ONLY)</td>
<td>QSN-5W-E, QSN-6W-E</td>
<td>100%-1%</td>
<td>1-64</td>
<td>40W - 60W</td>
</tr>
<tr>
<td>Lutron</td>
<td>Grafix quantum</td>
<td>Various</td>
<td>100%-1%</td>
<td>1-64</td>
<td>40W - 60W</td>
</tr>
</tbody>
</table>

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

D4E / DIML4E and D4H / DIML 4H
EcoSystem CONTROLS
DIMMING DRIVER COMPATIBILITY SELECTION GUIDE
D6A / DIML6A and D6E / DIML6E
D6B / DIML6B and D6F / DIML6F

IMPORTANT SAFETY INSTRUCTIONS
- SAVE THESE INSTRUCTIONS
1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D6A / DIML6A and D6E / DIML6E LED Dimming Compatibility Table
D6A / DIML6A and D6E / DIML6E are linearly programmed dimming drivers for use with logarithmic-style dimming controls (e.g., Lutron and others listed in the table below)
D6A / DIML6A = EldoLED SOLQdrive 0-10V control dims from 100% to 0.1%
D6E / DIML6E = EldoLED ECQdrive 0-10V control dims from 100% to 1%

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Dimmer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lutron</td>
<td>Diva</td>
<td>DVT/NTV with PP-20</td>
<td>99% - 0.1%</td>
<td>Refer to manufacturer's dimmer load rating for maximum and minimum fixture quantities per dimmer.</td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova T</td>
<td>QSN-4T6-S</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Lutron</td>
<td>Energy Sav Node</td>
<td>QSN-4T6-S</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Lutron</td>
<td>GP Dimming Panels</td>
<td>TVM2 Models</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Lutron</td>
<td>Interfaces</td>
<td>DRX-T1V w/ DRX3503</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Sensor Switch</td>
<td>n/o</td>
<td>n10 EZ</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Sensor Switch</td>
<td>n/o</td>
<td>n10 EZ</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Control Unit</td>
<td>CU-5E-1R</td>
<td>CU-3E-1R</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
</tbody>
</table>

D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table
D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with linear-style dimming controls (e.g., Crestron, non-Lutron and others listed below)
D6B / DIML6B = EldoLED SOLQdrive 0-10V control dims from 100% to 0.1%
D6F / DIML6F = EldoLED ECQdrive 0-10V control dims from 100% to 1%

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Dimmer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bush-Jaeger</td>
<td>Electronic potentiometer</td>
<td>2112U-101</td>
<td>100% - 0.1%</td>
<td>Refer to manufacturer's dimmer load rating for maximum and minimum fixture quantities per dimmer.</td>
</tr>
<tr>
<td>Jung</td>
<td>Electronic potentiometer</td>
<td>240-16</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Leviton</td>
<td>Tungsten Dimmer</td>
<td>P749-DUX</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Lightolier (Philips)</td>
<td>Momentum (120V ONLY)</td>
<td>ZP606MA120</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Merex</td>
<td>Electronic potentiometer</td>
<td>5729</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Pass &amp; Seymour</td>
<td>Titan</td>
<td>CD458-W</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Watt Stopper</td>
<td>Miro</td>
<td>DCL51</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Synergy</td>
<td>Wallbox Dimmers</td>
<td>ISD BC</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>ABB</td>
<td>i-bus</td>
<td>SD/S 216.1</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Crestron</td>
<td>Modules</td>
<td>GLX-DIMFLV8, GLX-DIMFLV8</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Crestron</td>
<td>Green Light Power Pack</td>
<td>GLPP-DIMFLVX-PM, GLPP-DIMFLVX2-PM, GLPP-DIMFLVX3-PM</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Crestron</td>
<td>DIN Rail Analog Output Module</td>
<td>DIN-4MB</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Crestron</td>
<td>iLux 0-10V Dimmer Expansion Module</td>
<td>GLS-EXP-DIMFLV</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Control Unit</td>
<td>Control Unit</td>
<td>CU-5E-1R</td>
<td>100% - 0.1%</td>
<td>Enlighted compatible.</td>
</tr>
</tbody>
</table>

DIMMING DRIVER WIRING SCHEMES:
NOTES: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.
DIMMING DRIVER WIRING SCHEMES:

NOTES:
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1. Keep these instructions in a safe place for future reference.
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5. Cap any wires not used separately (not together).

D7 / DIML7 and D7E Dimming Driver Wiring
D7 / DIML7 and D7E are linearly programmed dimming drivers.
D7 / DIML7 = EldoLED SOLOdrive DALI control dims from 100% to 0.1%
D7E = EldoLED ECOdrive DALI control dims from 100% to 1%

D7 / DIML7 / D7E
DALI CONTROLS
DIMMING DRIVER WIRING SCHEMES:

NOTES:
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5. Cap any wires not used separately (not together).

D19 / DIML19 LED: Hatch XTC series or equivalent - Forward and Reverse Phase Dimming Driver.
Dims down to 1% contingent upon dimmer specification and load. 120V only.

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**DIMMER 2 WIRE PHASE DIMMING**

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**D19 / DIML19 Dimmer Compatibility Chart**

**120V ONLY**

<table>
<thead>
<tr>
<th>Forward Phase / TRIAC Dimming</th>
<th>Qty Fixtures Per Dimmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Product</td>
</tr>
<tr>
<td>Leviton</td>
<td>IPL6-192</td>
</tr>
<tr>
<td>Lutron</td>
<td>S-600P</td>
</tr>
<tr>
<td>Lutron</td>
<td>S-603P</td>
</tr>
<tr>
<td>Lutron</td>
<td>DV-60P</td>
</tr>
<tr>
<td>Lutron</td>
<td>OV-603P</td>
</tr>
<tr>
<td>Lutron</td>
<td>CT-60P</td>
</tr>
</tbody>
</table>

**120V ONLY**

<table>
<thead>
<tr>
<th>Reverse Phase / ELV Dimming</th>
<th>Qty Fixtures Per Dimmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Product</td>
</tr>
<tr>
<td>Leviton</td>
<td>6615</td>
</tr>
<tr>
<td>Lutron</td>
<td>NTELV-30P</td>
</tr>
<tr>
<td>Lutron</td>
<td>NTELV-600</td>
</tr>
<tr>
<td>Lutron</td>
<td>SELV-300P</td>
</tr>
<tr>
<td>Lutron</td>
<td>SELV-303P</td>
</tr>
<tr>
<td>Lutron</td>
<td>DVELV-300P</td>
</tr>
</tbody>
</table>

---

**FIXTURE**
The Lumenbeam Large Dynamic White is a specialized 50W luminaire for lighting multi-story facades and structures - enabling the selection of any color temperature from 2200K to 3000K or from 2700K to 6500K. This dynamic feature enables smooth variations in color temperature, and gives clients the freedom to update the color of light in response to the way a space is used. The luminaire offers a wide choice of options: optics for flood or accent lighting, various mounting options, accessories, spread lenses and controls.

### Features

**Color and Color Temperature**
Dynamic warm white (2200K to 3000K), Dynamic white (2700K to 6500K)

**Optics (nominal distribution)**
6°, 10°, 20°, 40°, 60°

**Optical Option**
Linear spread lens horizontal distribution, Linear spread lens vertical distribution

**Options**
Short Yoke, 3G ANSI C136.31 Vibration Rating for bridge applications, Corrosion-resistant coating for hostile environments

**Power Consumption**
50 W

**Warranty**
5-year limited warranty

### Performance

**Illuminance at Distance**
Minimum 1 fc at 353 ft distance (DWH full output, VN 6°, DMX/RDM)

**Color Consistency**
2 SDCM

**Lumen Maintenance**
170,120,000 hrs (Ta 25 °C)
## Physical

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Material</td>
<td>Low copper cast high pressure die-cast aluminum</td>
</tr>
<tr>
<td>Yoke Material</td>
<td>Heavy aluminum (standard yoke included)</td>
</tr>
<tr>
<td>Lens Material</td>
<td>Clear tempered glass</td>
</tr>
<tr>
<td>Hardware Material</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Gasket Material</td>
<td>Silicone</td>
</tr>
<tr>
<td>Surface Finish</td>
<td>Electrostatically applied polyester powder coat</td>
</tr>
<tr>
<td>Weight</td>
<td>12 lbs</td>
</tr>
<tr>
<td>EPA</td>
<td>Front = 0.94 sq ft, Side = 0.36 sq ft</td>
</tr>
</tbody>
</table>

## Electrical and control

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>100 to 277 volts</td>
</tr>
<tr>
<td>Fixture Cable</td>
<td>Power and data in 1 cable, 3 ft cord standard (#16-5), other lengths available</td>
</tr>
<tr>
<td>Resolution (DMX/RDM)</td>
<td>Per fixture, 8-bit or 16-bit</td>
</tr>
<tr>
<td>Dynamic Warm Color Temperature Mixing</td>
<td>36 LEDs (12x 2200K, 12x 2700K, 12x 3000K)</td>
</tr>
<tr>
<td>Dynamic White Color Temperature Mixing</td>
<td>36 LEDs (12x 2700K, 12x 4000K, 12x 6500K)</td>
</tr>
<tr>
<td>Control</td>
<td>Lumentalk, Dim to Warm via 0-10V (DWW only), DMX/RDM enabled Dim to Warm via single channel (DWW only), DMX/RDM enabled 3-channel color temperature control</td>
</tr>
<tr>
<td>Cable Length</td>
<td>3 ft, 10 ft, 20 ft, 30 ft, 50 ft, 70 ft, 100 ft</td>
</tr>
</tbody>
</table>

## Environmental

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-13 °F to 122 °F</td>
</tr>
<tr>
<td>Ingress Protection Rating</td>
<td>IP66</td>
</tr>
<tr>
<td>Impact Resistance Rating</td>
<td>IK10</td>
</tr>
</tbody>
</table>

## Accessories (order separately)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Boxes</td>
<td>Ethernet enabled (daisy chain or star configuration), DMX/RDM enabled (daisy chain or star configuration)</td>
</tr>
<tr>
<td>Control Systems</td>
<td>Lumentouch 2.0™, Lumencue, Lumentona™ 2</td>
</tr>
<tr>
<td>Diagnostic and Addressing Tools</td>
<td>LumenID, LumentalkID</td>
</tr>
</tbody>
</table>
1. Housing

| LBL | 277 | DWW | FL | CC | DIM/DTW | SY |

2. Voltage

| 100 | 100 volts |
| 120 | 120 volts |
| 208 | 208 volts |
| 220 | 220 volts |
| 240 | 240 volts |
| 277 | 277 volts |

3. Color and Color Temperature

| DWW | Dynamic warm white (2200K to 3000K) |
| DWH | Dynamic white (2700K to 6500K) |

4. Optics

| VN | Very Narrow 6° |
| NS | Narrow Spot 10° |
| NF | Narrow Flood 20° |
| FL | Flood 40° |
| WFL | Wide Flood 60° |

5. Optical Option

| LSH | Linear spread lens horizontal distribution (1) |
| LSIV | Linear spread lens vertical distribution (1) |

(1) Factory installed, not available for 60° optic. Field adjustable spread lens optical accessory available, order separately.

6. Finish

| BK | Black Sandtex® |
| BRZ | Bronze Sandtex® |
| SI | Silver Sandtex® |
| WH | Smooth white |
| BKTX | Textured black |
| BRZTX | Textured bronze non-metallic |
| GRATX | Textured medium gray |
| GRNTX | Textured green |
| WHTX | Textured white |
| CC | Custom color and finish (please specify RAL color) (2) |

(2) Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
7. Control (1)

<table>
<thead>
<tr>
<th>LT</th>
<th>Lumentalk (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIM/DTW</td>
<td>Dim to Warm via 0-10V (2700K to 2200K)</td>
</tr>
<tr>
<td>DMX/RDM1</td>
<td>Dim to Warm via single-channel DMX/RDM (2700K to 2200K) (1) (3)</td>
</tr>
<tr>
<td>DMX/RDM</td>
<td>3-channel color temperature control via DMX/RDM (3)</td>
</tr>
</tbody>
</table>

(1) Available for DWW color temperature option only.
(2) A Lumentranslator and Lumentalk (LT) must be specified for Lumentalk applications. Consult Lumentranslator and Lumentalk pages and specification sheets for details.
(3) A control box (CBX) and Lumentalk (LT) must be specified.

8. Options

<table>
<thead>
<tr>
<th>SY</th>
<th>Short Yoke</th>
</tr>
</thead>
<tbody>
<tr>
<td>3GV</td>
<td>3G ANSI C136.31 Vibration Rating for bridge applications</td>
</tr>
<tr>
<td>CRC</td>
<td>Corrosion-resistant coating for hostile environments (1)</td>
</tr>
</tbody>
</table>

(1) Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure.

9. Certification (Unselected)

UL | UL compliant
CE | CE compliant

10. Cable Length (1)

| 3FT | 3 ft (1) (2) |
| 10FT | 10 ft |
| 20FT | 20 ft |
| 30FT | 30 ft |
| 50FT | 50 ft |
| 70FT | 70 ft |
| 100FT | 100 ft |

(1) 3 ft cable length is standard unless otherwise specified.
(2) Maximum of 3 ft cable length for daisy chain DMX applications with CREDS.
**FEATURES**

- Integral Battery Backup Option
- 360° Light Distribution
- RGBW or Static White Luminous Front Option
- IES Type I, II, III & IV Distributions
- Wall Graze, Spot and Pencil Distributions
- Multiple Fascia Options and Finishes
- 0-10V dimming
- IP-66 Housing & Optical System
- 120-277V
- 3000K, 4000K & 5000K CCT
- 10kA Surge Protection
- Fascia Forms F, E and T are ADA compliant for use in low mounting height applications (60 inches or less)
- IDA approved, downlight only, 3000K and warmer CCTs

**ORDERING CODE**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series-Output</td>
<td>CCT/CRI</td>
<td>Model</td>
<td>Main Distribution</td>
<td>Secondary Distribution</td>
<td>Voltage</td>
<td>Housing Finish</td>
<td>Fascia Form</td>
<td>Luminous Front</td>
<td>Fascia Panel</td>
<td>Control Options</td>
<td>Options</td>
</tr>
</tbody>
</table>

**SERIES-OUTPUT (Base)**

- **CY1-15**: 15w, 1500 nominal lumens
- **CY1-25**: 25w, 2500 nominal lumens

**CCT-CRI**

- 27K8 2700K, 80CRI
- 3K7 3000K, 70CRI
- 3K8 3000K, 80CRI
- 4K7 4000K, 70CRI
- 4K8 4000K, 80CRI
- 5K7 5000K, 70CRI

**MODEL (Light Engine)**

- 1 DownLight Only
- 2 50/50 Down/Up, Down/Up distributions must match 90/10 Down/Up
- 3 25/25/25 Split, Down/Up/ Side distributions must match 70/10/10 Split, Top/Side distributions must match

Contact factory for custom distributions.

See Distribution Matrix on page 2 for restrictions.

**MAIN DISTRIBUTION (Down)**

- 1 IES Type I
- 2 IES Type II
- 3 IES Type III
- 4 IES Type IV

- 5P 15° Spot/Column
- 5G 60° Wall Graze
- 1D Type 1 Diffused
- 2D Type 2 Diffused
- 3D Type 3 Diffused
- 4D Type 4 Diffused

**SECONDARY DISTRIBUTION (Up, Sides)**

- 1 IES Type I
- 2 IES Type II
- 3 IES Type III
- 4 IES Type IV
- SP 15° Spot/Column
- WG 60° Wall Graze
- PB* Pencil Beam
- 1D Type 1 Diffused
- 2D Type 2 Diffused
- 3D Type 3 Diffused
- 4D Type 4 Diffused

* PB distribution is available for 90/10 and 70/10/10 models only. Not all combinations are recommended. See Distribution Matrix on page 2 for restrictions.

**VOLTAGE**

- UNV 120-277V

**BASE HOUSING FINISH**

<table>
<thead>
<tr>
<th>Standard Colors</th>
<th>AGN</th>
<th>Antique Green</th>
</tr>
</thead>
<tbody>
<tr>
<td>BL</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>BLT</td>
<td>Matte Black</td>
<td></td>
</tr>
<tr>
<td>CRT</td>
<td>Copper</td>
<td></td>
</tr>
<tr>
<td>DB</td>
<td>Dark Bronze</td>
<td></td>
</tr>
<tr>
<td>DGN</td>
<td>Dark Green</td>
<td></td>
</tr>
<tr>
<td>GT</td>
<td>Graphite</td>
<td></td>
</tr>
<tr>
<td>LG</td>
<td>Light Grey</td>
<td></td>
</tr>
<tr>
<td>MAL</td>
<td>Matte Aluminum</td>
<td></td>
</tr>
<tr>
<td>MDB</td>
<td>Metallic Bronze</td>
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</tr>
<tr>
<td>MG</td>
<td>Medium Grey</td>
<td></td>
</tr>
<tr>
<td>TT</td>
<td>Titanium</td>
<td></td>
</tr>
<tr>
<td>VBU</td>
<td>Verde Blue</td>
<td></td>
</tr>
<tr>
<td>WDB</td>
<td>Weathered Bronze</td>
<td></td>
</tr>
<tr>
<td>WH</td>
<td>Arctic White</td>
<td></td>
</tr>
</tbody>
</table>

**Premium Colors**

- SFM | Seaford |
- SHK | Shamrock |
- SPP | Salt and Pepper |
- WCP | Weathered Copper |
- RAL | Provide a RAL 4 digit color number |
- CUSTOM | Please provide color chip for COLOR matching |

**FASCIA FORM**

- F | Flat |
- R | Radius/Curved |
- T | Triangle/Wedge |
- E | Rounded Edge |
- C | Circle/Curved |
- CB | Cylinder Balanced |
- CT | Cylinder Tall |
- CBM | Custom Building Material Mount |
- Ghost Fascia |

**LUMINOUS FRONT**

- BLANK | Standard None |
- RGBW | RGBW Luminous Front |
- LFSW | Static White Luminous Front |
- RGBW and LFSW luminous fronts are only available with open, four square and perforated fascia panels

**FASCIA PANEL**

- FPP | Full Panel Painted |
- FPS | Full Panel Stainless Steel |
- FPC | Full Panel Copper |
- OPP | Open Panel Painted |
- OPS | Open Panel Stainless Steel |
- OPC | Open Panel Copper |
- 4PP | 4-Square Panel Painted |
- 4PS | 4-Square Panel Stainless Steel |
- 4PC | 4-Square Panel Copper |
- PPP | Perforated Panel Painted |
- FPS | Perforated Panel Stainless Steel |
- PPC | Perforated Panel Copper |

Flat and radius Fascia forms only. Painted panels by default match base housing finish/color. Consult factory for custom panel finishes.

**CONTROL OPTIONS**

- PCLU | Universal Button Photocell (120-277V) |

**OPTIONS**

- EM | Battery Backup Unit -20°C |
- SF | Single Fuse (120, 277) |
- DF | Double Fuse (208, 240) |

Battery Backup not available with Triangle and Rounded Edge Fascia Forms.
Cypher™ – CY1 Accent Scale

Drawings

F - FLAT
ADA approved.

R - RADIUS/CURVED

CT - CYLINDER TALL

CB - CYLINDER BALANCED

T - TRIANGLE/WEDGE
ADA approved.

E - ROUNDED EDGE
ADA approved.

C - CIRCLE/CURVED

ARCHITECTURAL AREA LIGHTING
17760 Rowland Street | City of Industry | CA 91748
P 626.968.5666 | F 626.369.3695 | www.sal.net
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<table>
<thead>
<tr>
<th>JOB</th>
<th>TYPE</th>
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NOTES
# Cypher™ – CY1 Accent Scale

## Luminaire Performance

<table>
<thead>
<tr>
<th>Nominal Output (Lm)</th>
<th>Downlight Only</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Distribution</td>
<td>Bright White (5000K)</td>
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<tr>
<td></td>
<td></td>
<td>Delivered Lumens</td>
</tr>
<tr>
<td>1,500</td>
<td>17</td>
<td>1927</td>
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<td></td>
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<td>1602</td>
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<tr>
<td>2,500</td>
<td>26</td>
<td>2517</td>
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<td>2123</td>
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</table>

## Isoline Templates

10' Mounting Height, 10' Grid Spacing

- CY1-25-1-1
- CY1-25-1-2
- CY1-25-1-3
- CY1-25-1-4
- CY1-25-1-1D
- CY1-25-1-2D
- CY1-25-1-3D
- CY1-25-1-4D
# Cypher™ – CY1 Accent Scale

## ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Lumen Package</th>
<th>System Wattage (W)</th>
<th>Line Voltage</th>
<th>Input</th>
<th>Min. Power Factor</th>
<th>Max. THD (%)</th>
<th>Dimming Range</th>
<th>Source/Sink Current (mA)</th>
<th>Absolute Voltage Range on 0-10v (+ Purple)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,500</td>
<td>17</td>
<td>120 50/60</td>
<td>0.1</td>
<td>0.1</td>
<td>&lt;0.9</td>
<td>20</td>
<td>0 mA</td>
<td>0 mA</td>
</tr>
<tr>
<td>2,500</td>
<td>26</td>
<td></td>
<td>0.2</td>
<td>0.1</td>
<td>10% to 100%</td>
<td></td>
<td>1 mA</td>
<td>10V</td>
</tr>
</tbody>
</table>

## TM-21 LIFETIME CALCULATION (500mA)

<table>
<thead>
<tr>
<th>Lumen Package</th>
<th>Ambient Environment °C</th>
<th>Projected Lumen Maintenance (Khrs)</th>
<th>Reported L70</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>98% 97% 94% 97% 97% 97%</td>
<td>&gt;500Khrs.</td>
</tr>
</tbody>
</table>
SPECIFICATIONS

HOUSING
- Main housing shroud shall be of fabricated 5052-H32 aluminum alloy
- Housing mounting interface shall have a stamped silicone gasket
- Luminaires housing shall be free of any visible heat fins, hardware or fasteners.
- Bracketry and hardware shall be stainless steel.

OPTICAL ARRAY
- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features.
- Optical lenses shall be clear injection molded PMMA acrylic.
- Optical array shall be recessed in order to shield each LED optic across the length of the aperture.
- Optical array shall be sealed for IP66 rating.
- Secondary lens is impact resistant 5/32” tempered glass.

ELECTRICAL
- Drivers shall be in direct contact with the die-cast aluminum housing across the entire surface area of the widest face for maximum thermal transfer.
- "Thermal Shield", primary side, thermistor provides protection for the sustainable life of LED module and electronic components.
- Drivers shall have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments.
- Luminaires shall have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J. Surge protection device shall be wired in series.
- Drivers shall be U.L. recognized.
- Drivers shall not be compatible with current sourcing dimmers, consult factory for current list of known compatible dimming systems approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NFTV.
- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for -20°C ambient environments.

SPECIFICATIONS
- Luminaires shall be capable of operating at 100% brightness in a 40°C environment. Both driver and optical array shall have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C.
- Luminaires not configured with a control system shall be provided with 0-10 purple and gray dimming leads.

CONTROLS
- Button photocell for dusk to dawn energy savings
- PC12 for 120V, PC20 for 208V, PC24 for 240V, PC27 for 277V
- Photocell is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.

BLUETOOTH®
- RGBW option includes integral Bluetooth module, built into driver, that permits the adjustment of luminous front color when paired with Hubbell Remote App via cellular/tablet device.
- Bluetooth Low Energy (BLE) or Bluetooth Smart compatible for both iOS (iOS12 and forward) and Android (Gingerbread and forward) handheld software applications. Compatible with phones and tablets.
- Free Bluetooth Apps are available for Apple iOS and Google Android mobile devices and are downloadable via the internet at the Hubbell App Store or Google Play.

FINISH
- Luminaires shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- Luminaires shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION
- Luminaires shall be listed with UL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250.
- IP66 rated assembly
- IIDA approved, 3000K and warmer CCT's only.
- ANSI C136.31-2010 4G Vibration tested and compliant.
- Complies with "Americans with Disabilities Act" or "ADA" on select versions for low mounting height applications (fixtures extend maximum of 4 inches from wall for mounting heights of 80 inches or less).

WARRANTY / TERMS AND CONDITIONS OF SALE
Download:  Five year limited warranty for more information visit: http://www.hubbelllighting.com/resources/warranty/

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Compact floodlight

Housing: Luminaire constructed of a one piece die-cast aluminum housing. LED module paired with inner reverse-tapered casting to provide maximum heat transfer to outer housing. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Optical system consists of a reflector of pure anodized aluminum with an integral collimating optic and stray light control cylinder attached to the back of clear safety glass. The lens and optical assembly are secured by a die cast aluminum trim ring using (3) stainless steel captive fasteners.

Mounting: Provided with two piece die-cast aluminum canopy supplied with universal mounting bracket for direct attachment to 3½" or 4½ octagonal wiring box. Die-cast aluminum swivel.

Electrical: 13W LED luminaire, 14.9 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming, 120V only. The LED module and driver are mounted on a removable inner assembly for easy replacement. Standard LED color temperature is 4000K with an 85 CRI. Available in 3000K (85 CRI); add suffix K3 to order.

Note: Due to the dynamic nature of LED technology, LED luminaire data in this catalog is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 milt thickness. These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards for wet locations.

Protection class IP65.

Weight: 4.0 lbs.

Luminaire Lumens: 616

Tested in accordance with LM-79-08

---

**Compact floodlight - very narrow beam**

<table>
<thead>
<tr>
<th>Lamp Type</th>
<th>β</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>77680*</td>
<td>13.4W LED</td>
<td>8°</td>
<td>5½</td>
<td>8</td>
<td>5½</td>
</tr>
</tbody>
</table>

Accessories:
- 70075 70756 70712

Exchangeable lenses:
- Flat beam
- 180° glare shield
- 360° matte

β = Beam angle

---

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com

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December 21, 2018

Justin Keller, Borough Manager  
Pottstown Borough  
100 E. High Street  
Pottstown, PA 19464

RE: The Hill School Quadrivium Center - 717 E. High Street  
Preliminary/Final Plan Review  
Pottstown Borough  
PTB-18-391

Dear Mr. Keller:

We have completed a review of the Preliminary/Final Subdivision Land Development for The Hill School Quadrivium Center - 717 E. High Street. The site (Parcel 16-00-15116-00-6) is located on the northern side of High Street. The parcel is approximately 80.33 acres and within the Traditional Town Neighborhood (TTN) Zoning District. The property contains a school facility consisting of multiple buildings and parking areas. The current application proposes to add a building addition, additional sidewalk, and a mill and overlay for the affected portion of the parking area and access drive.

The following information was submitted by Pennoni Associates Inc., and was received by our office on November 30, 2018:

A. Preliminary/Final Land Development Plans - The Hill School Quadrivium Center, Sheets 1 through 18 of 18, prepared by SMP Architects, dated November 16, 2018 (Plans).
B. Architectural Plans - The Hill School Quadrivium Center, Sheets 1 through 4 of 4, prepared by SMP Architects, dated November 16, 2018 (Plans).
D. Borough of Pottstown Planning Applications dated November 12, 2018

The Plans have been reviewed against Chapter 9 Grading and Excavating, Chapter 21 Streets and Sidewalks, Chapter 22 Subdivision and Land Development, Chapter 26 Water Part 2 Stormwater Management, and Chapter 27 Zoning of the Borough of Pottstown Ordinances.

The following waivers are being requested for this application:

A. § 22-400.2.C - Show all existing underground features on the parcel, including but not limited to:
   1. Sanitary sewer lines and water lines
      a) If any existing lines are to be abandoned, plans shall clearly note the following: “Any existing sewer or water lines to be abandoned, or any services which may have been previously abandoned not in accordance with the Authority standards, shall be cut and capped at the mains as per Pottstown Borough Authority specifications.”
b) Existing sewer and water lines to existing buildings that are to remain shall be verified as single and separate services with the appropriate Authority and the results noted on the Plan.

2. Stormwater drainage.

B. § 22-403.A - Show physical features and topography on the property surrounding the subject parcel for a distance of 100 feet, unless a greater distance is deemed necessary by the Zoning Officer because of unconventional topographic conditions.

C. § 22-A401.8 - The names of all abutting subdivisions, developments, or landowners, with deed book, volume, and page numbers where recorded.

D. § 22-A402.1 - Within 100 feet of any part of the land being subdivided or developed: the location, names, width, radii, curbs, sidewalks, and surface conditions of existing streets and alleys; the location and dimensions of existing rights-of-way and easements; the location of watercourses, floodplains, floodways, sanitary sewers, storm drains and catchments, utilities above and below ground; the location and width of existing curb cuts and/or driveways; the location of any zoning district boundary, municipal or county boundary, or recreational area; and other similar features.

E. § 22-A402.2 - Within 100 feet of any part of the land being subdivided or developed: contour lines and elevation data; the location of existing structures and their use; parking areas; and, significant landscape features.

F. § 22-A403.8 - Streets, including streets recorded but not constructed, on or abutting the tract, including names, right-of-way widths, cartway or pavement widths, radii, curb lines, sidewalks, and approximate grades.

G. § 22-A404.1 - The total tract boundary lines of the area being subdivided or developed with accurate distances to hundreds of a foot and bearings to nearest 15 seconds. These boundaries shall be determined by accurate survey in the field, which shall be balanced and shall close with an error of closure not to exceed one foot per 10,000 feet; provided, however, the boundary(s) adjoining additional un-platted land of the sub-divider, for example, between separately submitted final plan sections, are not required to be based upon field survey, and may be calculated. These closure computations shall accompany the final plan. The location and elevation of all boundary lines or perimeter monuments shall be indicated, along with a statement of the total area of the property being subdivided or developed.

H. § 22-A405.1 - The plan scale shall be no smaller than one inch equals 100 feet. The plan shall be prepared with a standard engineer's scale suitable to the size of the parcel and the required plan details.

I. § 22-503.4.E - Steep slopes in excess of 20 percent as measured at 2 foot intervals for a cumulative grade change of 6 feet.

J. § 22-504 - Open space and recreational facilities.

K. § 22-A505 - Fee in lieu of open space.

We offer the following comments for your consideration:
Chapter 9 Grading and Excavating:

1. § 9-105.D - Erosion and sediment control practices, both temporary and permanent, and the operation and maintenance arrangements.

   The following shall be addressed as it applies to the Erosion and Sedimentation Control Plan:
   
   - Additional facilities shall be implemented to control the disturbance associated with the proposed storm sewer. Facilities to be considered may include trench plugs, along with a limitation to pipe installation, backfill, and stabilization that can be completed in one day.
   - An inlet filter bag shall be added to the inlet directly south of the proposed concrete washout.

Chapter 22 Subdivision and Land Development:

2. § 22-400.2.C - Show all existing underground features on the parcel, including but not limited to:
   
   1) Sanitary sewer lines and water lines
      
      a) If any existing lines are to be abandoned, plans shall clearly note the following: "Any existing sewer or water lines to be abandoned, or any services which may have been previously abandoned not in accordance with the Authority standards, shall be cut and capped at the mains as per Pottstown Borough Authority specifications."
      
      b) Existing sewer and water lines to existing buildings that are to remain shall be verified as single and separate services with the appropriate Authority and the results noted on the Plan.
   
   2) Stormwater drainage.

   The applicant has requested a waiver of this Ordinance section. CEDARVILLE offers no objection to a waiver of this Ordinance section as the area of improvement is minimal in comparison to the entirety of the tract.

3. § 22-403.A - Show physical features and topography on the property surrounding the subject parcel for a distance of 100 feet, unless a greater distance is deemed necessary by the Zoning Officer because of unconventional topographic conditions.

   The applicant has requested a waiver of this Ordinance section. CEDARVILLE offers no objection to a waiver of this Ordinance section as the area of improvement is minimal in comparison to the entirety of the tract.

4. § 22-400.4.E - Scaled architectural/construction drawings of the new building(s) shall be submitted with the subdivision and/or land development plans and consist of the following:

   The Architectural Plans submitted with this application must be sealed prior to final approval.

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   www.cedarvilleeng.com
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The applicant has requested a waiver of this Ordinance section. CEDARVILLE offers no objection to a waiver of this Ordinance section as the area of proposed construction is surrounded by the subject property.

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The above referenced certification must be added to the Plans.

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24. § 26-222.4 - Exemptions from any provisions of this Part shall not relieve the applicant from the requirements in § 221, Subsections 4 through 11.

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**Chapter 27 Zoning:**

25. § 27-319.3 - Conditional Uses.
   - Cemetery
   - Church
   - Child care facility
   - Dwelling - single-family attached
   - School
   - Social club
   - Utility company operational facility
   
   Uses of the same general character as those listed in this chart, with the same or lesser impact on the community as determined by Borough Council

The Zoning Compliance Summary Chart, Sheet 2 references the intended use of the school as an existing Conditional Use. The Decision and Order associated with the original Condition Use approval associated with the school use shall be provided on the plan.

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§ 27-601.4.A - Off-Street Parking Standards, Number of Spaces:

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The current application does not propose additional parking to accommodate the proposed building addition. The applicant shall either provide additional parking per the referenced Ordinance section, or demonstrate the additional parking required by Ordinance can be sufficiently provided through existing parking, exclusive of parking required for other existing uses.

www.cedarvilleeng.com
Other agency approvals

Approvals or permits from the following agencies may also be required. Written evidence of these approvals, acceptance, or exemptions need to be submitted to the Borough:

A. DEP approval of sewage facilities planning module
B. Pottstown Municipal Authority for sanitary sewer service
C. Pottstown Municipal Authority for potable water service
D. Montgomery County Planning Commission Review
E. Public Works Department, Borough of Pottstown
F. Fire Marshall, Borough of Pottstown
G. Zoning Officer, Borough of Pottstown

Please note, revisions made in response to the above may generate further review comments. Please contact us with any questions or concerns.

Best Regards,
CEDARVILLE Engineering Group, LLC

April M. Barkasi, P.E.
President & CEO

cc: Stephanie Drobins, Pottstown Borough Licensing and Inspections
    Charles D. Garner, Esquire, Pottstown Borough Solicitor
    Keith A. Place, Pottstown Borough Director of Licensing and Inspections
    Winter Stokes, Pottstown Borough Zoning/Planning Administrator
    Pennoni Associates Inc.
    Robin L. Rhoads, The Hill School Assistant director of Facilities, Services for Capital, and Special Projects
January 3, 2019

Mr. Justin Keller, Borough Manager
Pottstown Borough
100 E. High Street
Pottstown, PA 19464

Re: MCPC #12-0145-006
Plan Name: Hill School Quadrivium Project
(1 lot comprising approx. 80.33 ac)
Situate: 860 Beech Street
Pottstown Borough

Dear Mr. Keller:

We have reviewed the above-referenced land development plan in accordance with Sections 502 of Act 247, "The Pennsylvania Municipalities Planning Code," as you requested on December 4, 2018. We forward this letter as a report of our review.

BACKGROUND

The Applicant, The Hill School, is proposing a building addition between two existing academic buildings on its campus within the TTN Traditional Town Neighborhood Zoning District. The four-story building addition will have a footprint of 4,764 square feet, and will be composed of building façade materials matching those of the two adjoining academic buildings. The site improvements will include the removal of sidewalks and vegetation between the two existing buildings, the relocation of utilities and storm sewer, repaving of a drive and the addition of several trees, shrubs and perennials, among other improvements. The development will be served with public water and sewer.
RECOMMENDATION

The Montgomery County Planning Commission (MCPC) generally supports the applicant’s proposal, however, in the course of our review we have identified issues that the applicant and Borough may wish to consider prior to final plan approval. Our comments are as follows:

REVIEW COMMENTS

A. LAND USE

1. Parking. It appears that no additional parking is proposed as a part of this application. The Applicant should confirm that no further parking will be generated or required by the construction of this project, and that the required parking is otherwise satisfied.

2. Nature of Use. The Applicant should clarify what the intended use of the building addition will be (classrooms, offices, etc.).

B. LANDSCAPING

1. Screening. The requirements of §22-510.1, Screening, shall also apply for the placement of the chiller pad and the transformer to the south of the Science building and the building additions.

C. LIGHTING

No lighting plan was provided with the plans which were submitted. The Applicant should clarify if there is any additional lighting proposed for the site, since it appears from the plans that site lighting will be removed as a part of this proposal.

CONCLUSION

We wish to reiterate that MCPC generally supports the Applicant’s proposal, but we believe that our suggested revisions will better achieve the Borough’s planning objectives for institutional development.

Please note that the review comments and recommendations contained in this report are advisory to the municipality and final disposition for the approval of any proposal will be made by the municipality.
Should the governing body approve a final plat of this proposal, the applicant must present the plan to our office for seal and signature prior to recording with the Recorder of Deeds office. A paper copy bearing the municipal seal and signature of approval must be supplied for our files.

Sincerely,

Brian J. Olszak, Senior Planner
bolszak@montcopa.org
610-278-3737

c: The Hill School, Applicant
   Jim Derr, Chr., Borough Planning Commission
   Keith Place, Borough Director of Licensing and Inspection
   Charles D. Garner, Jr., Borough Solicitor

Attachments: Reduced copy of plan
              Aerial map
ATTACHMENTS

Reduced copy of plan
Aerial map

Hill School Quadrivium Project
120145006
December 21, 2018

Justin Keller, Borough Manager
Pottstown Borough
100 E. High Street
Pottstown, PA 19464

RE: The Hill School Quadrivium Center - 717 E. High Street
    Preliminary/Final Plan Review
    Pottstown Borough
    PTB-18-391

Dear Mr. Keller:

We have completed a review of the Preliminary/Final Subdivision Land Development for The Hill School Quadrivium Center - 717 E. High Street. The site (Parcel 16-00-15116-00-6) is located on the northern side of High Street. The parcel is approximately 80.33 acres and within the Traditional Town Neighborhood (TTN) Zoning District. The property contains a school facility consisting of multiple buildings and parking areas. The current application proposes to add a building addition, additional sidewalk, and a mill and overlay for the affected portion of the parking area and access drive.

The following information was submitted by Pennoni Associates Inc., and was received by our office on November 30, 2018:

A. Preliminary/Final Land Development Plans - The Hill School Quadrivium Center, Sheets 1 through 18 of 18, prepared by SMP Architects, dated November 16, 2018 (Plans).
B. Architectural Plans - The Hill School Quadrivium Center, Sheets 1 through 4 of 4, prepared by SMP Architects, dated November 16, 2018 (Plans).
D. Borough of Pottstown Planning Applications dated November 12, 2018

The Plans have been reviewed against Chapter 9 Grading and Excavating, Chapter 21 Streets and Sidewalks, Chapter 22 Subdivision and Land Development, Chapter 26 Water Part 2 Stormwater Management, and Chapter 27 Zoning of the Borough of Pottstown Ordinances.

The following waivers are being requested for this application:

A. § 22-400.2.C - Show all existing underground features on the parcel, including but not limited to:
   1. Sanitary sewer lines and water lines
      a) If any existing lines are to be abandoned, plans shall clearly note the following: “Any existing sewer or water lines to be abandoned, or any services which may have been previously abandoned not in accordance with the Authority standards, shall be cut and capped at the mains as per Pottstown Borough Authority specifications.”
b) Existing sewer and water lines to existing buildings that are to remain shall be verified as single and separate services with the appropriate Authority and the results noted on the Plan.

2. Stormwater drainage.

B. § 22-403.A - Show physical features and topography on the property surrounding the subject parcel for a distance of 100 feet, unless a greater distance is deemed necessary by the Zoning Officer because of unconventional topographic conditions.

C. § 22-A401.8 - The names of all abutting subdivisions, developments, or landowners, with deed book, volume, and page numbers where recorded.

D. § 22-A402.1 - Within 100 feet of any part of the land being subdivided or developed: the location, names, width, radii, curbs, sidewalks, and surface conditions of existing streets and alleys; the location and dimensions of existing rights-of-way and easements; the location of watercourses, floodplains, floodways, sanitary sewers, storm drains and catchments, utilities above and below ground; the location and width of existing curb cuts and/or driveways; the location of any zoning district boundary, municipal or county boundary, or recreational area; and other similar features.

E. § 22-A402.2 - Within 100 feet of any part of the land being subdivided or developed: contour lines and elevation data; the location of existing structures and their use; parking areas; and, significant landscape features.

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G. § 22-A404.1 - The total tract boundary lines of the area being subdivided or developed with accurate distances to hundredths of a foot and bearings to nearest 15 seconds. These boundaries shall be determined by accurate survey in the field, which shall be balanced and shall close with an error of closure not to exceed one foot per 10,000 feet; provided, however, the boundary(s) adjoining additional un-platted land of the sub-divider, for example, between separately submitted final plan sections, are not required to be based upon field survey, and may be calculated. These closure computations shall accompany the final plan. The location and elevation of all boundary lines or perimeter monuments shall be indicated, along with a statement of the total area of the property being subdivided or developed.

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I. § 22-503.4.E - Steep slopes in excess of 20 percent as measured at 2 foot intervals for a cumulative grade change of 6 feet.

J. § 22-504 - Open space and recreational facilities.

K. § 22-A505 - Fee in lieu of open space.

We offer the following comments for your consideration:

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Chapter 9 Grading and Excavating:

1. § 9-105.D - Erosion and sediment control practices, both temporary and permanent, and the operation and maintenance arrangements.

The following shall be addressed as it applies to the Erosion and Sedimentation Control Plan:

- Additional facilities shall be implemented to control the disturbance associated with the proposed storm sewer. Facilities to be considered may include trench plugs, along with a limitation to pipe installation, backfill, and stabilization that can be completed in one day.
- An inlet filter bag shall be added to the inlet directly south of the proposed concrete washout.

Chapter 22 Subdivision and Land Development:

2. § 22-400.2.C - Show all existing underground features on the parcel, including but not limited to:
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Approvals or permits from the following agencies may also be required. Written evidence of these approvals, acceptance, or exemptions need to be submitted to the Borough:

A. DEP approval of sewage facilities planning module
B. Pottstown Municipal Authority for sanitary sewer service
C. Pottstown Municipal Authority for potable water service
D. Montgomery County Planning Commission Review
E. Public Works Department, Borough of Pottstown
F. Fire Marshall, Borough of Pottstown
G. Zoning Officer, Borough of Pottstown

Please note, revisions made in response to the above may generate further review comments. Please contact us with any questions or concerns.

Best Regards,
CEDARVILLE Engineering Group, LLC

April M. Barkasi, P.E.
President & CEO

cc: Stephanie Drobins, Pottstown Borough Licensing and Inspections
    Charles D. Garner, Esquire, Pottstown Borough Solicitor
    Keith A. Place, Pottstown Borough Director of Licensing and Inspections
    Winter Stokes, Pottstown Borough Zoning/Planning Administrator
    Pennoni Associates Inc.
    Robin L. Rhoads, The Hill School Assistant director of Facilities, Services for Capital, and Special Projects
ORDINANCE NO. ______

AN ORDINANCE OF THE BURGESS AND TOWN COUNCIL OF THE BOROUGH OF POTTS TOWN, CREATING A NEW SECTION 204, MINOR PLAN SUBMISSION REVIEW PROCEDURE, AND A NEW SECTION 402, MINOR PLAN SUBMISSION REQUIREMENTS, BOTH PART OF CHAPTER 22, SUBDIVISION AND LAND DEVELOPMENT, OF THE CODE OF ORDINANCES OF THE BOROUGH OF POTTS TOWN, AS AMENDED, TO ESTABLISH A PROCEDURE AS WELL AS SUBSTANTIVE REQUIREMENTS FOR SUBMISSION OF MINOR SUBDIVISION AND LAND DEVELOPMENT PLANS.

NOW, THEREFORE, BE IT ENACTED AND ORDAINED by the Burgess and Town Council of the Borough of Pottstown, Montgomery County, Pennsylvania, and it is hereby ENACTED and ORDAINED by the authority of same as follows:

SECTION 1. A new section 204, Minor Plan Submission Review Procedure, of Part 2, Applications, of Chapter 22, Subdivision and Land Development, of the Code of Ordinances of the Borough of Pottstown, as amended, is hereby created and shall provide as follows:

§ 204 Minor Plan Submission Review Procedure

Minor plans may be submitted and processed only for lot line adjustments, simple conveyances, minor subdivisions, and minor land developments, as characterized hereafter, in accordance with the standards and requirements of this section.

1. The following qualify for minor plan submission:

A. Lot line adjustment.

   1. A proposal between two abutting, existing, legally approved and recorded lots.

   2. A common lot line is proposed to be adjusted in terms of its location or configuration.
3. The land area of each lot may be different after adjustment, but the total lot area of the two lots will be unchanged.

4. No alteration will occur to the perimeter boundary lines of the lots.

5. Neither lot shall violate the applicable dimensional requirements of the Zoning Ordinance (Chapter 27) as a result of the lot line adjustment.

6. The reason for the lot line adjustment includes, but is not necessarily limited to:
   
   (a) Correcting errors regarding locations of existing improvements (e.g., driveway for lot 1 is located on lot 2).
   
   (b) Relating the line to definitive physical characteristics (e.g., to adjust the line to run along an existing hedgerow).
   
   (c) Preferences of the landowners involved.

B. Simple conveyance.

1. A proposal between two abutting, existing, legally approved and recorded lots.

2. A portion of one lot is being divided off to be conveyed to the owner of the abutting lot.

3. The land area of each lot will be different after conveyance, but the total lot area of the two lots will be unchanged.

4. The lot from which the land is being conveyed must be suitable in terms of the applicable dimensional requirements of the Zoning Ordinance (Chapter 27) so that, after conveyance, it will remain in compliance with those requirements.

5. The land area being conveyed need not satisfy any of the dimensional requirements applicable to lotting in the district in which it is located, nor the street frontage requirements of the Zoning Ordinance (Chapter 27), provided that it shall be deed restricted to the extent that it may not be transferred independently but must be transferred together with the lot to
which it is being functionally added by the process of simple conveyance.

C. Minor subdivision.

1. A subdivision proposal which would divide one existing lot into two lots, both of which will comply with the applicable dimensional requirements of the Zoning Ordinance (Chapter 27) district in which the existing lot is located.

2. The existing lot has sufficient frontage on an existing, improved public street to satisfy the applicable Borough requirements for lot frontage and access to a public street for both proposed lots.

3. The subdivision will not require new road construction, road improvements or the extension of existing public utility lines.

4. The proposal will not involve significant stormwater and/or erosion control issues, as determined by the Borough Engineer.

5. Disqualification. Borough Council may require standard preliminary plan submission in place of a minor plan when conditions warrant it, at the advice of the Planning Commission or Engineer.

D. Minor land development.

1. Any of the following:

   (a) A land development proposal where it is found that the intended development or modification of a site or use and occupancy of an existing structure will create a minimal impact upon traffic, drainage, visual image, landscaping, buffering, lighting or other elements described within Part 5.

   (b) Parking lot expansions.

   (c) Additions to existing nonresidential buildings, provided that the addition is less than 5,000 gross square feet and involves no more than a twenty-five-percent increase in the size of the existing building.

   (d) The conversion of a residential dwelling that results in the creation of no more than two new dwelling units.
(e) The addition of tenants to an existing nonresidential building when minimal structural improvements are required.

2. Disqualification. Borough Council may require standard preliminary plan submission in place of a minor plan when conditions warrant it, at the advice of the Planning Commission or Engineer.


A. All minor plans shall be considered to be preliminary plans for the purposes of submission for review and approval and shall comply with the requirements of Part 2.

B. When a minor plan qualifies for approval or for approval subject to conditions, in accordance with this Part, the minor plan may be granted concurrent preliminary and final plan approvals, providing that the plan includes the final plan certifications required by § 402.

C. A minor plan which will require access to a state highway shall include all plans and specifications proposed for submittal to the Pennsylvania Department of Transportation for the purpose of obtaining a highway occupancy permit.

SECTION 2. A new section 402, Minor Plan Submission Requirements, of Part 4, Plan Requirements, of Chapter 22, Subdivision and Land Development, of the Code of Ordinances of the Borough of Pottstown, as amended, is hereby created and shall provide as follows:

§ 402 Minor Plan Submission Requirements

Plans which qualify for Minor Plan Submission pursuant to Section 204 shall comply with the following submission requirements:

1. Drafting standards. The following shall be depicted on the plan.

A. The plan shall be drawn to a standard engineering scale not exceeding 100 feet to the inch.

B. The sheet or sheets shall be one of the following sizes: 15 inches by 18 inches, 18 inches by 30 inches or 24 inches by 36 inches.
C. Property lines shall be drawn and labeled in conformance with accepted surveying and civil engineering practices, including dimensions shown in feet and decimals and bearings shown in degrees, minutes and seconds.

2. Basic information to be shown on the plan.

A. Name, address and phone number of the applicant.

B. Name, address and phone number of any other property owner involved in the proposal.

C. Name, address, phone number and professional seal of the individual that prepared the plan.

D. Date of preparation of the plan and a descriptive list of revisions to the plan and the revision dates.

E. North point and graphic and written scale.

F. Location plan showing the relationship of the subject tract to the surrounding road network and major physical features.

G. The entire boundary lines of all lots involved in the proposal, with bearings and distances and lot areas.

H. A list of the basic dimensional requirements of the applicable zoning districts.

I. Legend sufficient to indicate clearly between existing and proposed conditions.

J. Notes sufficient to describe what is being proposed and which land areas are to be transferred as a result of the proposal.

3. Existing and proposed features to be shown on the plan.

A. Lot line adjustments.

1. The lot line proposed to be adjusted, as it currently exists, shown as a dashed line, labeled “lot line to be removed.”

2. The lot line as it is proposed to be after adjustment, drawn using the standard lot line delineation at a heavier line weight than the other lot lines and labeled “proposed new lot line.”
3. Any existing physical features of the site which are involved in the decision to adjust the line.

4. Any existing and/or proposed features which will be directly affected by the lot line adjustment.

B. Simple conveyances.

1. The land area to be conveyed, drawn in a manner which makes it readily identifiable. The lot lines defining this area shall be drawn using the standard lot line delineation at a heavier line weight than the other lot lines. This area shall be labeled “this area to be conveyed to (name) and is not a separate building lot.”

2. The area of the parcel being conveyed.

3. The areas of the previously existing lots and their areas following conveyance.

4. Any existing and/or proposed site features which will be directly affected by the conveyance.

C. Minor subdivisions.

1. Existing features.

   (a) Streets bordering or crossing the tract, showing names, right-of-way and cartway widths, and surface conditions.

   (b) Locations of sanitary and/or storm sewer lines and water supply lines.

   (c) Location of all watercourses and limits of any flood-prone areas, based on FEMA studies or engineering determination.

   (d) Contours obtained from USGS 7.5-minute quadrangle maps or more accurate methods.

   (e) Location and description of existing buildings and other structures, labeled "to remain" or "to be removed," as applicable, and location and description of existing buildings and other structures less than 50 feet beyond the tract boundaries.
(f) Outer limits of tree masses.

(g) Locations of any natural or man-made feature which may affect the developability of the land, such as quarries, wetlands, etc., within the property and up to 100 feet beyond the tract boundaries.

(h) Location, type and ownership of major utilities, such as pipelines and electric transmission lines, both above and below ground, with descriptive notes.

(i) Easement or right-of-way dimensions.

(j) Additional setback or development restrictions imposed by the utility company.

(k) Specific type of product using pipelines.

(l) Areas subject to deed restrictions or easements.

2. Proposed features.

(a) Layout and dimensions of both lots, including net lot areas and ultimate rights-of-way.

(b) All building setback lines.

(c) Locations of on-site water supply and sewage disposal, if applicable.

D. Minor land development.

1. The existing and proposed features for minor subdivisions above.

2. Parking lot locations.

3. New buildings or additions to existing structures.

**SECTION 3. Severability.** If any sentence, clause, section or other part of this ordinance is, for any reason, found to be unconstitutional, illegal or invalid, such unconstitutionality, illegality or invalidity shall not affect or impair any remaining provisions, sentences, clauses, sections or other parts of this ordinance. It is hereby
declared as the intent of the Burgess and Town Council of the Borough of Pottstown that this ordinance would have been adopted had such unconstitutional, illegal or invalid sentence, clause, section or part thereof, not be included herein.

**SECTION 4. Reenactment.** All remaining provisions of Chapter 22, Subdivision and Land Development, of the Code of Ordinances of the Borough of Pottstown, as amended, to the extent not inconsistent herewith are hereby re-enacted and reordained.

**SECTION 5. Effective Date.** This ordinance shall become effective immediately upon enactment.

ENACTED and ORDAINED this ____ day of ________________, 2019.

THE BURGESS AND TOWN COUNCIL OF THE BOROUGH OF POTTSTOWN

BY:

-------------------------------------------- Dan Weand, President

ATTEST:

-------------------------------------------- Secretary