

Burlington Development Review Board

Department of Permitting & Inspections
645 Pine Street

Burlington, VT 05401

www.burlingtonvt.gov/DPI/DRB

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Development Review Board

Tuesday, December 5, 2023, 5:00 PM

645 Pine Street, Front Conference Room or Remote on Zoom:

Please click the link below to join the webinar:

Zoom: <https://us02web.zoom.us/j/83225696227?pwd=SGQ0bTdnS000Wkc3c2J4WWw1dzMxUT09>

Webinar ID: 832 2569 6227

Passcode: 969186

Telephone: US +1 929 205 6099 or +1 301 715 8592 or +1 312 626 6799 or +1 669 900 6833 or +1 253 215 8782 or +1 346 248 7799

1. Agenda

2. Communications

3. Minutes

4. Certificate of Appropriateness

4.1.

ZP-23-494; 20 Rock Point Road (RCO-C, Ward 4) Episcopal Diocese of Vermont / David Marshall

Proposed construction of building additions and reconfiguration of existing parking area. (Project Manager, Scott Gustin)

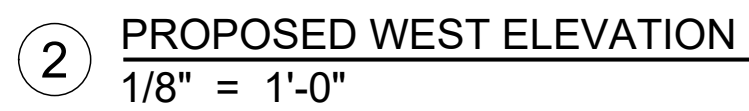
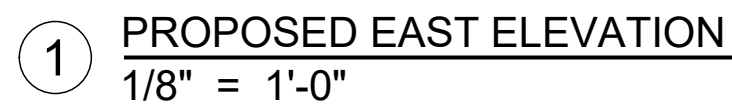
5. Adjournment

6. Informational and Non-Discrimination Statements

6.1.

Plans may be viewed upon request by contacting the Department of Permitting & Inspections between the hours of 8:00 a.m. and 4:30 p.m. Participation in the DRB proceeding is a prerequisite to the right to take any subsequent appeal. Please note that ANYTHING submitted to the Zoning office is considered public and cannot be kept confidential. This may not be the final order in which items will be heard. Please view final Agenda, at www.burlingtonvt.gov/dpi/drb/agendas or the office notice board, one week before the hearing for the order in which items will be heard.

The City of Burlington will not tolerate unlawful harassment or discrimination on the basis of political or religious affiliation, race, color, national origin, place of birth, ancestry, age, sex, sexual orientation, gender identity, marital status, veteran status, disability, HIV positive status, crime victim status or genetic information. The City is also committed to providing proper access to services, facilities, and employment opportunities. For accessibility information or alternative formats, please contact Human Resources Department at (802) 540-2505.





CIVIL ENGINEERING ASSOCIATES, INC.

10 Mansfield View Lane
South Burlington, VT 05403

Phone: 802-864-2323
Fax: 802-864-2271
E-Mail: dmarshall@cea-vt.com

October 23, 2023

Ms. Mary O'Neill and Mr. Scott Gustin
City Planning & Zoning Office
645 Pine Street
Burlington, Vermont 05401

**Re: Burlington School District as Applicant
The Trustees of The Diocese of Vermont, Inc. as Landowner
Proposed Conference Center Addition/Renovations
20 Rock Point Road, Burlington**

Dear Ms. O'Neill and Mr. Gustin:

The Burlington School District, in collaboration with The Trustees of the Episcopal Diocese of Vermont (property owner) is seeking to renovate the existing education conference center and the adjacent Van Dyck building.

The existing Rock Point conference center is capable of providing both day and over-night educational opportunities. Burlington High School currently operates its "OnTop" program in conjunction with this space and is described as being an *"...alternative high school, serving the youth of Burlington that need a smaller school setting with more supports. OnTop provides a student-centered curriculum with special attention to the emotional wellness of our students and the development of deep relationships to foster a safe learning environment."*

The proposed conversion of the over-night capabilities at Rock Point (Primarily at the Van Dyck building) into a day school will create class rooms for a student population of 75 with 25 full and part-time teacher/staff personnel. This will be an increase of about 15 students from the current day program working out of this space.

The proposed work will include the construction of a single story 1,850 SF footprint addition on the south side of the conference center building and a two story 960 SF footprint addition which will connect both the 1st and 2nd stories of the conference center building with the Van Dyck building so as to provide ADA access to all levels of these structures.

This development area of Rock Point was originally permitted for construction in 1980. This application seeks to infill portions of that development area footprint. The 87.1-acre property is subject to a conservation easement held by the Lake Champlain Land Trust on a substantial portion of the property. This project lies within one of the four excluded areas within that easement area.

We offer the following supplemental information not readily added to the OpenGov portal.

Lot Coverage - The Lot Coverage computations are embedded on the attached Steep Slope PDF which conservatively used slopes >25% (not the regulatory 25%) taken over a gridded pattern of 32' versus the optional 50'. The Lot coverage was calculated to be 4.31% in comparison to the allowable 5.0%.

Natural Resource Protection Overlay District – The property is subject to the follow sub districts:

Riparian and Littoral Conservation Zone – This covers the area 250' from the lake 95.5 contour. The limits are shown on Sheet C1.0 and C2.0. No work is proposed within this area.

Wetland Conservation Zone – Although this property does host wetlands depicted on Natural Resource Map 4.5.4-1, the project site is not proximate to any of those locations. We have attached a mark-up of Map 4.5.4-1 showing the project location.

Natural Areas Zone – Similar to the wetland conservation zone, this property does host significant natural areas and its 100-foot buffer area but the project site is located outside of these areas.

Steep Slopes - This project site has a large percentage of steep slopes that are defined as being greater than 15%. The attached Steep Slopes specifically identifies those areas where the slopes are greater than 15% . The location of the proposed project is not encumbered by any steep slopes except at the existing stormwater basin which is being modified into a gravel wetland with flatter embankment slopes than what exists today (without evidence of slope failure).

Special Flood Hazard Area Overlay District – This overlay district which generally extends into the property up to elevation 102 contour extends into the perimeter of the property. The lowest portion of the proposed development area is at elevation 133.

Design Review Overlay - Within this overlay district, no structure may be erected, or any site improvement or modification made without approval subject to the provisions of Article 3, Part 4 pertaining to Design Review and the review criteria described in Art 6. Ewe have attached Sheet A0.1 which depicts the existing conditions and materials and Sheet C3.0 which depicts the proposed elevations of the building additions. Sheet A0.1 uses photos to assist in the documentation of the existing conditions. Supplemental photos of the buildings and site are also attached.

Water and Sewer – The property is currently covered by State WW-4-2558 with design flow of 1,396 GPD for the Commons facility which includes the Conference Center, Van Dyke House and flows from the Headmaster House.

With the proposed conversion of the Van Dyck building from overnight housing to classrooms, the design flows for the education conference center will only increase by 299 GPD over what is permitted (See Attached Design Flows Summary). The design flows for the project have conservatively included a full cafeteria even though the

current plan is to have lunches prepared at the High School and transported to the property.

The supporting supplemental water and sewer allocation request is pending before the DPW Water Resources Section.

Without the need to make any exterior water or sewer pipe modifications, our confirmation that the existing water and sewer infrastructure can handle the modest increase in design flows and with the issuance of supplemental water and sewer allocations from the City, the project is eligible for the exemption from having to acquire a State WW permit amendment as outlined in §1-304 (13) and (14) Permit Exemptions of the Wastewater System and Potable Water Supply Rules.

Stormwater Management – The original City Permit for the development of this site authorized the construction of a stormwater management facility at the south end of the development area. The original design plan is included for reference.

This application seeks to modify that facility to create a gravel wetland consistent with the design requirements set for thin the State Stormwater Manual. This application includes Stormwater Sheets SW-1 through SW-4 which detail the existing and proposed conditions associated with the property.

Wetlands – The project site currently hosts two wetlands.

North Wetland - North of the Van Dyck building there is a small 0.15 acre Class III wetland. It occupies the previously disturbed soils transitioning from the upland forested area southerly toward the building. It would appear that the removal of the native soil in this area for the construction of the Van Dyck building exposed the groundwater table and produced this environment. Pictures of the wetland area attached. The proposed emergency access surface expansion creates 155 SF (0.004 Acres) of impact to this far east end of the wetland.

East Wetland – This occupies the space east of the existing access drive. The area of this wetland is just over 1 acre and as such is presumed to be a Class II wetland. The Act 250 permit for the project indicated that portions of this wetland would be underdrained to maximize the water flow to the stormwater basin. Our field investigation confirmed the presence of the apparent common conveyance line from the Class II wetland discharging into the existing storm basin.

The character of the wetland closest to the existing roadway is marginal (see photos).

The project design has generally respected this wetland and does not proposed any impacts. The proposed improvements are located downhill of the wetland so secondary impacts from the existing and proposed land uses are minimal as stormwater runoff does not migrate toward this wetland.

Traffic – Rock Point Commons current operates a day school with a student total of 67. Within that 67-student total, the Burlington School District's (BSD) "On Top" program is comprised of a student population the ranges from 17 to 22. The staffing for the school includes 18 total full timer and 6 part time support members who arrive and depart at various times throughout the school week (M-F beginning around August 20th until June 15th of every school calendar year).

In addition, the current Rock Point program on site is four individuals which includes one security resident. They will mainly be located in the Chapel. The Director may maintain an office at the Conference Center.

Under the proposed conditions the student population will increase to 80 with the education staffing level remaining the same. The Rock Point program will increase from four (4) to five (5) staff members.

Site Improvements - The applicant has met with Fire Marshal Matt Stone to review the existing conditions and to create a game plan on how to improve the emergency vehicle response capabilities to the site. Byproducts of this interaction with the Fire Marshal includes:

- Modifications to the existing primary access into the project site. This will include the creation of pull-offs at critical locations which will allow Emergency vehicles to more readily pass by passenger vehicles along this existing roadway originally authorized in 1980. Many of the pull-off improvements actually will formalize those locations where vehicles pull to the side to allow in-coming vehicles to pass.
- Expansion of the access along the north face of the Conference center and Van Dyck House. This comes in the form of an improved circulation pattern and re-orientation of the parking lot. This new parking lot will increase the existing compliant parking count in this location from 14 to 29. This will reduce the need to use the existing overflow parking lot to east which is located within the East Wetland. This application also proposes to provide three (3) formalized accessible parking spaces on an asphalt surface near the Van Dyck/Conference Center connector addition.

There is also an existing seasonally available alternate access that loops through the eastern part of the property before turning and entering the Conference Center area from the south.

Traffic Generation - Students of this facility arriving by personal vehicle or city transit will arrive at the New Burlington High School. Both during and after construction of the new high school, student parking will be provided in the existing high school parking lot adjacent to the athletic fields off Institute Road. A small bus or van will shuttle students to the facility operated by BSD staff. In addition to the shuttle service students will be permitted to walk or travel by bike to the facility.

Overall, the vehicle trip ends are expected, to increase only modestly from existing conditions. The attached ITE traffic generation sheets for a private high school (This more representative based on the impacts already assigned at the Burlington High School project) showed that the increase in student levels would increase the modeled PM peak hour trip generation from 13 to 15 VTE, an increase of two 2 VTE. With the proposed increase in the Rock Point administrative staff from 4 to 5, the total increase in PM peak hour VTEs is projected to be 3 (three).

Aesthetics – Sheet A0.1 depicts the materials associated with the existing buildings constructed in 1980. This was done using photographs to document the existing conditions with supplemental call-outs detailing the features. The proposed elevations (Sheet A1.0 – 1.1) depict the proposed character and materials which are intended to mimic the existing conditions.

The proposed site lighting remains modest but still attempts to provide a safe environment for pedestrians moving through the property during night time conditions. All of the fixtures are proposed to be Dark Sky compliant.

The solid waste storage area is proposed to be moved modestly from its current location which does not include an enclosure. The new location a bit closer to the north end of the building and is proposed to include an enclosure for the solid waste dumpsters.

Wildlife and Endangered Species - The State database indicates many species overall within the project property (Attachment 5), but the one that covers the entire area is called “pinedrops”. It's state endangered. From the EO it appears that the specimens were identified back in 1842 and not recently.

As outlined in Wikipedia:

Pterospora, commonly known as pinedrops,[1] woodland pinedrops,[2] Albany beechdrops, or giant bird's nest is a North American genus in the subfamily Monotropoideae of the heath family, and includes only the species Pterospora andromedeae.[3][4] It grows as a mycoheterotroph (relying on fungi rather than photosynthesis for nutrients) in coniferous or mixed forests. It is widespread across much of Canada as well as the western and northeastern United States to northern Mexico (Sonora, Coahuila, Durango, Nuevo León and Baja California).[5][6]

On Attachment 5 - Reserve Forest Area, the Dry Oak-Hickory-Hophornbeam Forest (S3) are the pink polygons to the North and south while on Attachment 3 – Uncommon Species and Other Features the tan polygon along the lake shore is the Limestone Bluff Cedar-Pine Forest (S2).

This project seeks to construct the improvements in development locations previously authorized by the City. It is our position that by limiting work to within the limits of disturbance authorized in the original City approval that there are no endangered

Ms. Mary O'Neill and Mr. Scott Gustin

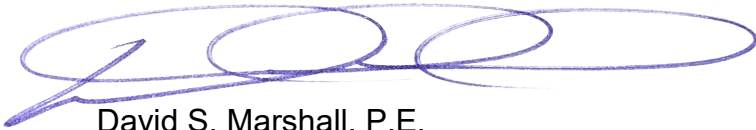
Page 6 of 6

October 23, 2023

species that rely upon this development area and that the impacts to any endangered species will be non-existent in comparison to the existing conditions.

This completes our summary of the proposed project and supporting materials. If you should any questions concerning this application, please feel free to contact me at (802) 864-2323.

Respectfully,



David S. Marshall, P.E.
Project Engineer

\dsm

Enclosures

- 1 - Design Flow Summary
- 2 - Traffic Generation Sheets (2)
- 3 - Uncommon Species and Other Features Mapping
- 4 - Significant Natural Communities Mapping
- 5 - Reserve Forest Areas Mapping
- 6 - Rare Threatened and Endangered Species Mapping
- 7 - Site Lighting Catalog Cuts
- 8 - Class III Wetland Pictures
- 9 - Class II Wetland Pictures
- 10 - Existing Conditions Photos at Buildings
- 11 – Map 4.5.4-1 Natural Resource Overlay
- 12 – Stormwater Narrative
- 13 – Steep Slopes and Lot Coverage Take-off
- Architectural Plan Sheets
- Civil Plan Sheets

Cc: All digitally w enclosures: K. Kimball, R. Burnett, S. Cowan, N. Lavery, CEA File 23175



1. Long View of Conference Center across the Existing Parking Lot.



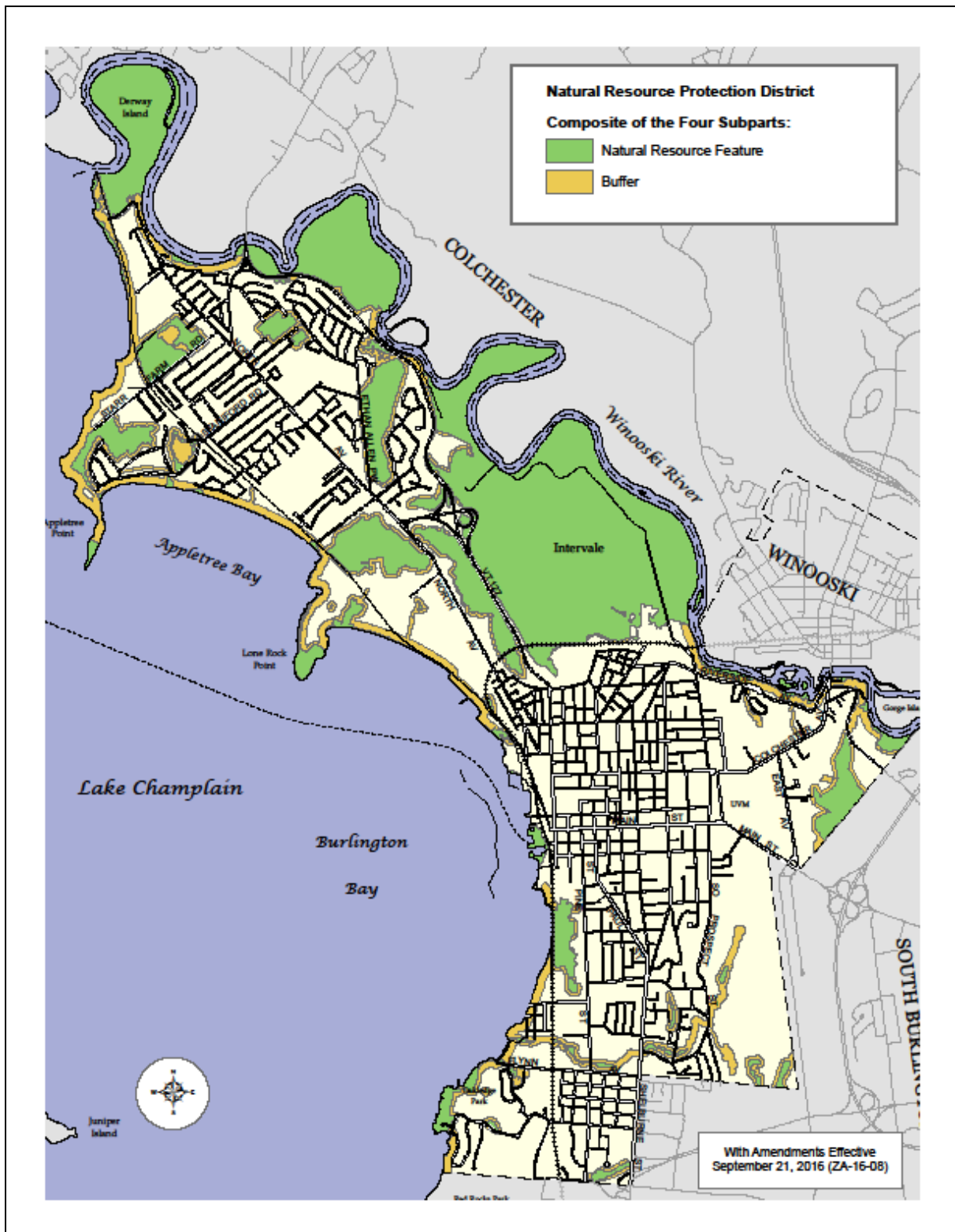
2. Westerly View of Connector Addition between the Conference Center (left) and Van Dyck Building (Right).



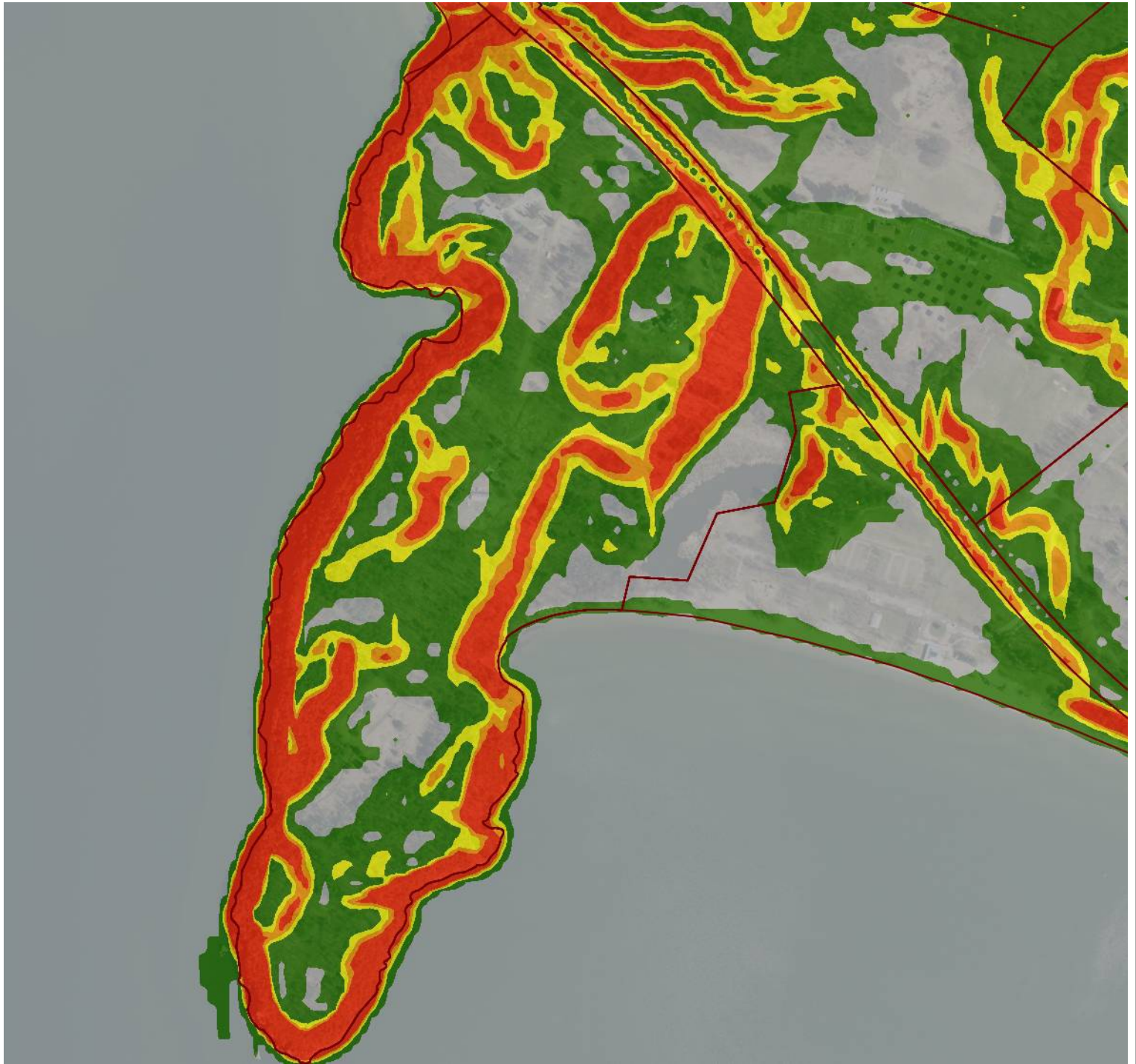
3. Westerly View of the south end of the Conference Center where the South Addition is Proposed



4. Northerly View of West Side of the Conference Center and South Side of the Van Dyck Building.



Map 4.5.4-1: Natural Resource Overlay District



LEGEND

Parcels (standardized)

Slope

- <5%
- 5-15%
- 15-20%
- 20-25%
- >25%

NOTES

Map created using ANR's Natural Resources Atlas

1: 6,668

October 3, 2023



1,111.0 0 556.00 1,111.0 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Vermont Agency of Natural Resources

1" = 556 Ft. 1cm = 67 Meters
THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

Private High School (534)

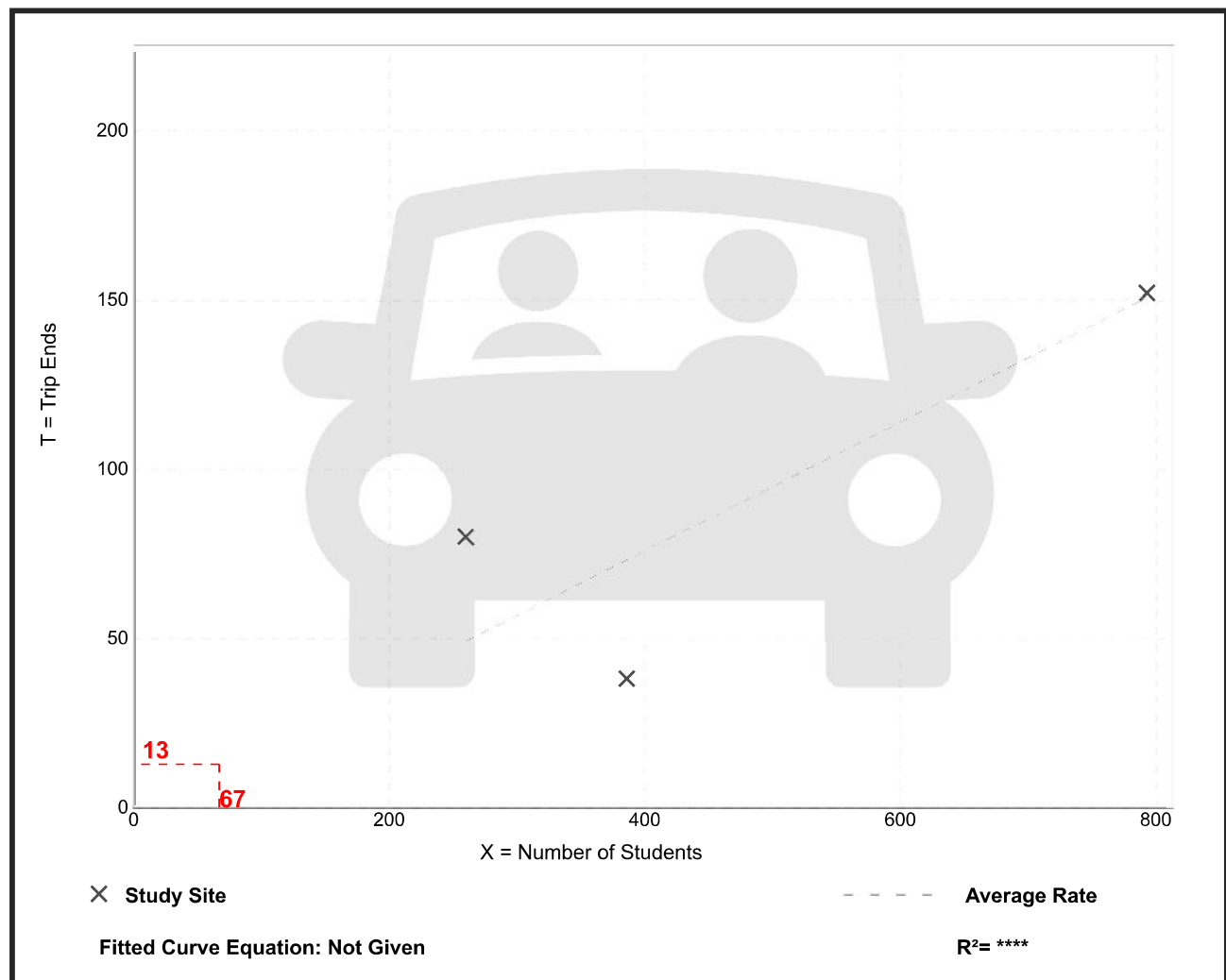
Vehicle Trip Ends vs: Students
On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
 Number of Studies: 3
 Avg. Num. of Students: 480
 Directional Distribution: 39% entering, 61% exiting

Vehicle Trip Generation per Student

Average Rate	Range of Rates	Standard Deviation
0.19	0.10 - 0.31	0.08

Data Plot and Equation

Caution – Small Sample Size



Private High School (534)

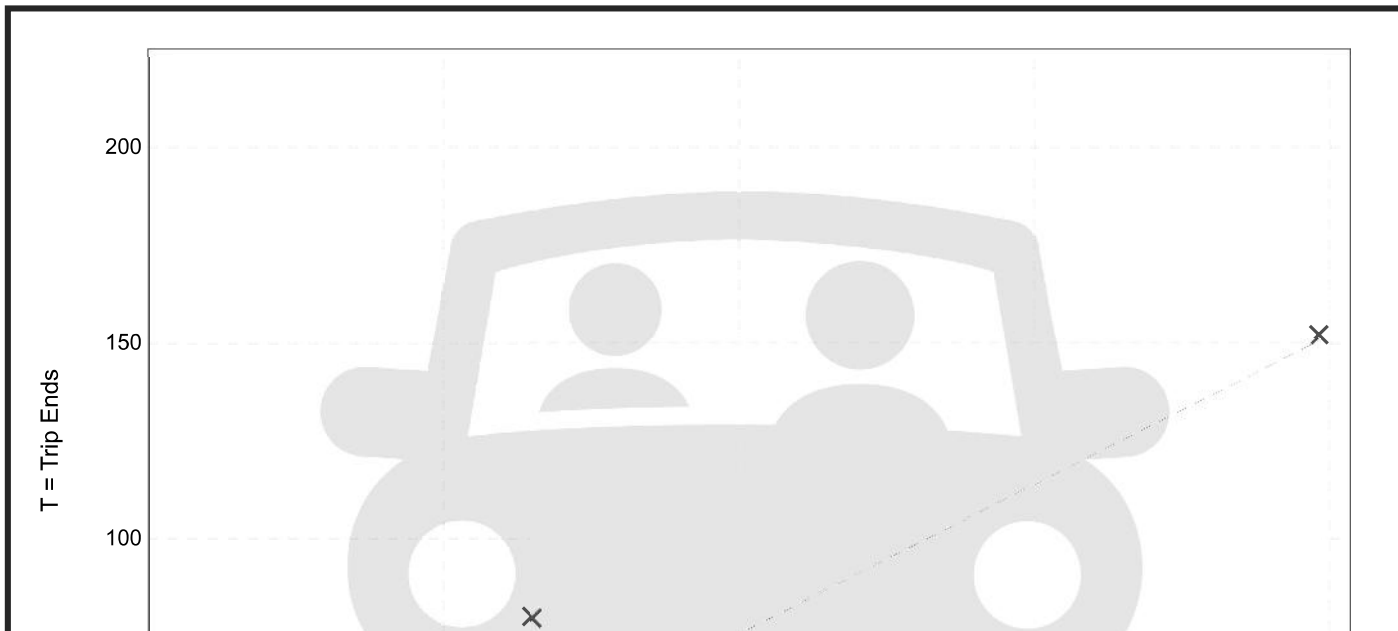
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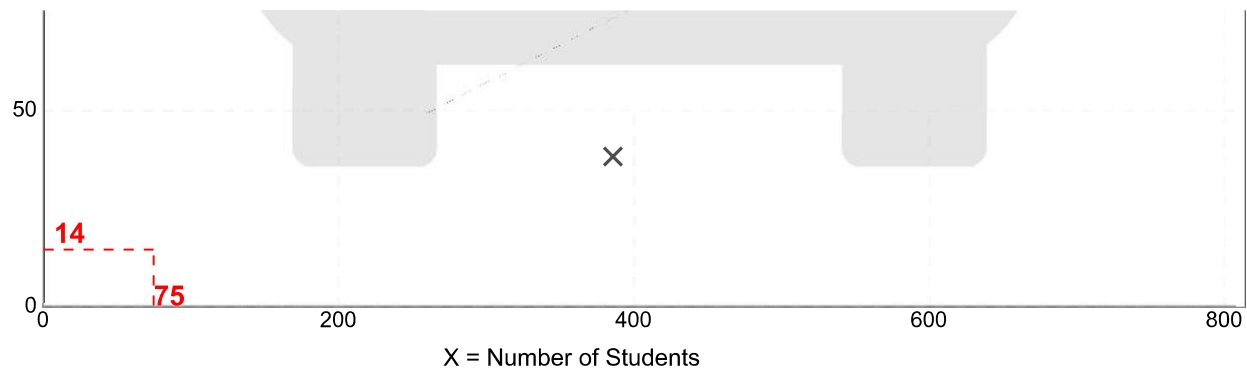
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Data Plot and Equation

Caution – Small Sample Size





Trip Gen Manual, 11th Edition

● Institute of Transportation Engineers



Slice Medium - SLM Outdoor LED Area Light



The Slice's sleek design makes it perfectly-suited for Commercial & Industrial applications, while its cost-effective die-cast aluminum housing makes its acquisition cost very competitive. The Slice offers high performance silicone optics, die cast aluminum housing, 42,000+ lumens and is available with integral Airlink Synapse controls.

Features & Specifications

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 5W, FT and FTA.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- Zero uplight.
- Available in 5000K, 4000K, 3000K, and 2700K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral Louver (IL) option available for improved back-light control without sacrificing street side performance. See page 5 for more details.

Electrical

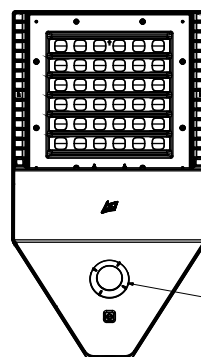
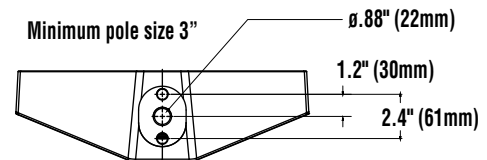
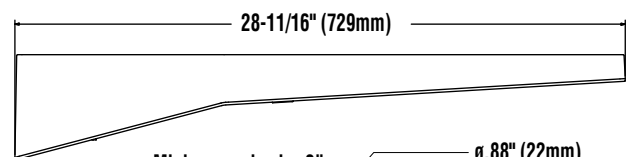
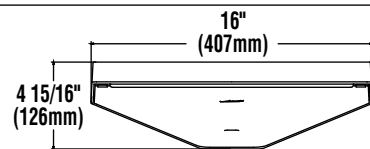
- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance on Page 3)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L lumen package rated to +40°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Terminal block provided accepts up to 10ga wire.
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.



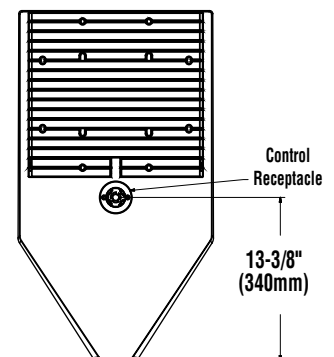
IP66

ARRA
Funding Compliant

Product Dimensions



Bottom View



Top View



Slice Medium - SLM Outdoor LED Area Light

Features & Specifications (Cont.)

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square poles.
- Luminaire is proudly manufactured in the U.S. of U.S. and imported parts.
- IP66 rated luminaire protects integral components from harsh environments.
- 3G rated for ANSI C136.31 high vibration applications
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 30 lbs in carton.

Controls

Wireless Controls System

To make this fixture AirLink ready, simply order one of the following options:

- The integrated [Wireless Lighting Controller](#): ALSC or ALSCH (see ordering guide) as the controls option, or
- Integrated Wireless Controller option (above) with integrated motion sensor: ALSCS (ordering guide for mounting heights) or
- The 7-Pin Photoelectric Control Receptacle: CR7P as the controls option; and either the [5-Pin](#) or [7-Pin Twist Lock Controller](#): ALSC UNV TL5 or ALSC UNV TL7 as an accessory

To see how the components of AirLink system work together, reference the diagram in the controls section of this specs sheet. For more information on our AirLink products, visit our website: www.lsi-airlink.com/airlink-synapse/

Stand-Alone Controls

- The integral passive infrared motion sensor (IMS) activates switching of luminaire light levels (see the controls section for more details).
- The 7-pin ANSI C136.41-2013 photocontrol receptacle option (CR7P) is available for twist lock photocontrols or wireless control modules.
- The Button Type Photocells (PCI) are capable of switching luminaires ON/OFF in response to the amount of available daylight.

Installation

- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment for installing/servicing.
- Included terminal block provides quick and easy on-site wiring.
- Utilizes LSI's traditional 3" drill pattern for easy fastening of LSI products. (See drawing on page 1)

Warranty

- LSI LED Fixtures carry a 5-year warranty.

Listings

- Listed to UL 1598 and UL 8750.
- RoHS Compliant.
- American Recovery and Reinvestment Act Funding Compliant.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable For wet Locations.
- IP66 rated Luminaire. IP66 rated optical chamber.
- 3G rated for ANSI C136.31 high vibration applications

Performance

ELECTRICAL DATA (AMPS)*

Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	68.2	0.6A	0.3A	0.3A	0.2A	0.2A	0.1A
12L	93.1	0.8A	0.4A	0.4A	0.3A	0.3A	0.2A
18L	148.5	1.2A	0.7A	0.6A	0.5A	0.4A	0.3A
24L	188.8	1.6A	0.9A	0.8A	0.7A	0.5A	0.4A
30L	248.6	2.1A	1.2A	1.0A	0.9A	0.7A	0.5A
36L	317.8	2.6A	1.5A	1.3A	1.1A	0.9A	0.7A
42L	393.4	3.3A	1.9A	1.6A	1.4A	1.1A	0.8A

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%

ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)*

Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	74.3	0.6A	0.4A	0.3A	0.3A	0.2A	0.2A
12L	102.9	0.9A	0.5A	0.4A	0.4A	0.3A	0.2A

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%

RECOMMENDED LUMEN MAINTENANCE*(24-42L)

Ambient	Initial ²	25 hr ²	50 hr ²	75 hr ³	100 hr ³
0-40 C	100%	100%	97%	94%	92%

RECOMMENDED LUMEN MAINTENANCE*(9-18L)

Ambient	Initial ²	25 hr ²	50 hr ²	75 hr ³	100 hr ³
0-50 C	100%	96%	91%	87%	83%

- 1- Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
- 2- In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
- 3- In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing

DELIVERED LUMENS*

Lumen Package	Distribution	Phosphor Converted Amber (Peak 610nm)			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
9L	2	5958	80	B2-U0-G1	74
	2 IL	3735	50	B0-U0-G1	
	3	6196	83	B1-U0-G1	
	3 IL	4205	56	B0-U0-G1	
	5W	5528	74	B3-U0-G1	
	FT	5922	79	B1-U0-G2	
	FT IL	3712	50	B0-U0-G1	
	FTA	5997	80	B2-U0-G2	
12L	FTA IL	4254	57	B0-U0-G1	103
	2	7559	73	B2-U0-G2	
	2 IL	4738	46	B0-U0-G1	
	3	7860	76	B2-U0-G2	
	3 IL	5335	52	B0-U0-G1	
	5W	7013	68	B3-U0-G2	
	FT	7513	73	B2-U0-G2	
	FT IL	4709	46	B0-U0-G2	
	FTA	7608	74	B2-U0-G2	
	FTA IL	5397	52	B0-U0-G1	

*LED Chips are frequently updated therefore values are nominal

LUMINAIRE EPA CHART - SLM

Tilt Degree				Tilt Degree			
0°				0°			
Single	0.5	2.1	2.6	T90°	1.2	2.9	3.6
D180°	1.1	2.1	2.6	TN120°	1.3	4.4	5.4
D90°	0.9	2.5	3.1	O90°	1.2	2.9	3.6

Specifications and dimensions subject to change without notice.



Slice Medium - SLM Outdoor LED Area Light

DELIVERED LUMENS*															
Lumen Package	Distribution	CRI	2700K CCT			3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
9L	2	70	8349	122	B2-U0-G2	8576	125	B2-U0-G2	9396	137	B2-U0-G2	9784	143	B2-U0-G2	69
	2 IL	70	5185	76	B0-U0-G1	5326	78	B0-U0-G1	5835	85	B0-U0-G1	6076	89	B0-U0-G1	
	3	70	8571	125	B1-U0-G2	8804	129	B1-U0-G2	9646	141	B2-U0-G2	10044	147	B2-U0-G2	
	3 IL	70	6283	92	B0-U0-G2	6454	94	B0-U0-G2	7071	103	B0-U0-G2	7363	107	B0-U0-G2	
	5W	70	8158	119	B3-U0-G2	8380	122	B3-U0-G2	9181	134	B3-U0-G2	9560	140	B4-U0-G2	
	FT	70	8337	122	B2-U0-G2	8563	125	B2-U0-G2	9382	137	B2-U0-G2	9769	143	B2-U0-G2	
	FT IL	70	5393	79	B0-U0-G2	5540	81	B0-U0-G2	6069	89	B0-U0-G2	6320	92	B0-U0-G2	
	FTA	70	8459	123	B2-U0-G2	8689	127	B2-U0-G2	9520	139	B2-U0-G2	9913	145	B2-U0-G2	
FTA IL	70	6200	91	B1-U0-G1	6369	93	B1-U0-G1	6978	102	B1-U0-G1	7266	106	B1-U0-G1		
12L	2	70	11157	119	B2-U0-G2	11461	122	B2-U0-G2	12556	134	B3-U0-G2	13075	139	B3-U0-G2	94
	2 IL	70	6929	74	B1-U0-G1	7117	76	B1-U0-G2	7798	83	B1-U0-G2	8119	86	B1-U0-G2	
	3	70	11454	122	B2-U0-G2	11766	125	B2-U0-G2	12890	137	B2-U0-G2	13423	143	B2-U0-G2	
	3 IL	70	8396	89	B0-U0-G2	8625	92	B0-U0-G2	9449	101	B0-U0-G2	9839	105	B0-U0-G2	
	5W	70	10902	116	B4-U0-G2	11199	119	B4-U0-G2	12269	131	B4-U0-G2	12775	136	B4-U0-G2	
	FT	70	11141	119	B2-U0-G2	11444	122	B2-U0-G2	12538	133	B2-U0-G3	13055	139	B2-U0-G3	
	FT IL	70	7207	77	B0-U0-G2	7403	79	B0-U0-G2	8110	86	B0-U0-G2	8445	90	B0-U0-G2	
	FTA	70	11304	120	B2-U0-G2	11612	124	B2-U0-G2	12722	135	B2-U0-G2	13247	141	B2-U0-G2	
FTA IL	70	8286	88	B1-U0-G1	8511	91	B1-U0-G1	9325	99	B1-U0-G1	9710	103	B1-U0-G1		
18L	2	70	16714	112	B3-U0-G3	17168	115	B3-U0-G3	18809	126	B3-U0-G3	19586	131	B3-U0-G3	150
	2 IL	70	10379	69	B1-U0-G2	10662	71	B1-U0-G2	11681	78	B1-U0-G2	12163	81	B1-U0-G2	
	3	70	17158	115	B2-U0-G3	17625	118	B2-U0-G3	19310	129	B3-U0-G3	20107	134	B3-U0-G3	
	3 IL	70	12578	84	B1-U0-G3	12920	86	B1-U0-G3	14155	95	B1-U0-G3	14739	99	B1-U0-G3	
	5W	70	16331	109	B4-U0-G2	16776	112	B4-U0-G2	18379	123	B4-U0-G2	19138	128	B5-U0-G3	
	FT	70	16689	112	B3-U0-G3	17143	115	B3-U0-G3	18781	126	B3-U0-G4	19557	131	B3-U0-G4	
	FT IL	70	10795	72	B1-U0-G2	11089	74	B1-U0-G2	12149	81	B1-U0-G3	12651	85	B1-U0-G3	
	FTA	70	16934	113	B3-U0-G3	17395	116	B3-U0-G3	19058	127	B3-U0-G3	19844	133	B3-U0-G3	
FTA IL	70	12412	83	B1-U0-G1	12750	85	B1-U0-G2	13969	93	B1-U0-G2	14546	97	B1-U0-G2		
24L	2	70	20880	112	B3-U0-G3	22701	121	B4-U0-G3	24276	130	B4-U0-G3	24784	133	B4-U0-G3	187
	2 IL	70	13100	70	B1-U0-G2	14243	76	B1-U0-G2	15231	81	B1-U0-G2	15550	83	B1-U0-G2	
	3	70	21739	116	B3-U0-G3	23636	126	B3-U0-G4	25275	135	B3-U0-G4	25804	138	B3-U0-G4	
	3 IL	70	15828	85	B1-U0-G3	17209	92	B1-U0-G3	18403	98	B1-U0-G4	18788	100	B1-U0-G4	
	5W	70	20632	110	B5-U0-G3	22432	120	B5-U0-G3	23988	128	B5-U0-G3	24490	131	B5-U0-G3	
	FT	70	21611	116	B3-U0-G4	23496	126	B3-U0-G4	25126	134	B3-U0-G4	25652	137	B3-U0-G4	
	FT IL	70	13692	73	B1-U0-G3	14886	80	B1-U0-G3	15919	85	B1-U0-G3	16252	87	B1-U0-G3	
	FTA	70	21496	115	B3-U0-G3	23371	125	B3-U0-G3	24992	134	B3-U0-G3	25515	136	B3-U0-G3	
FTA IL	70	15226	81	B1-U0-G2	16555	89	B1-U0-G2	17703	95	B2-U0-G2	18073	97	B2-U0-G2		
30L	2	70	26581	108	B4-U0-G3	28900	117	B4-U0-G3	30905	125	B4-U0-G3	31551	128	B4-U0-G3	247
	2 IL	70	16677	68	B1-U0-G2	18132	73	B1-U0-G2	19390	79	B1-U0-G2	19796	80	B1-U0-G2	
	3	70	27675	112	B3-U0-G4	30089	122	B3-U0-G4	32176	130	B3-U0-G4	32850	133	B3-U0-G4	
	3 IL	70	20150	82	B1-U0-G4	21908	89	B1-U0-G4	23428	95	B1-U0-G4	23918	97	B1-U0-G4	
	5W	70	26266	106	B5-U0-G3	28557	116	B5-U0-G3	30538	124	B5-U0-G4	31177	126	B5-U0-G4	
	FT	70	27512	111	B3-U0-G4	29912	121	B3-U0-G4	31987	130	B3-U0-G4	32656	132	B3-U0-G5	
	FT IL	70	17430	71	B1-U0-G3	18951	77	B1-U0-G4	20266	82	B1-U0-G4	20690	84	B1-U0-G4	
	FTA	70	27365	111	B3-U0-G3	29752	120	B4-U0-G3	31816	129	B4-U0-G3	32482	132	B4-U0-G3	
FTA IL	70	19384	78	B2-U0-G2	21075	85	B2-U0-G2	22537	91	B2-U0-G2	23008	93	B2-U0-G2		
36L	2	70	32214	102	B4-U0-G3	35025	111	B4-U0-G3	37454	118	B4-U0-G3	38238	121	B4-U0-G4	317
	2 IL	70	20212	64	B1-U0-G2	21975	69	B1-U0-G3	23499	74	B2-U0-G3	23991	76	B2-U0-G3	
	3	70	33540	106	B3-U0-G4	36466	115	B3-U0-G5	38996	123	B3-U0-G5	39812	126	B3-U0-G5	
	3 IL	70	24421	77	B1-U0-G4	26551	84	B1-U0-G4	28393	90	B1-U0-G4	28987	92	B1-U0-G5	
	5W	70	31832	101	B5-U0-G4	34609	109	B5-U0-G4	37010	117	B5-U0-G4	37785	119	B5-U0-G4	
	FT	70	33342	105	B3-U0-G5	36251	114	B3-U0-G5	38766	122	B4-U0-G5	39577	125	B4-U0-G5	
	FT IL	70	21125	67	B1-U0-G4	22968	73	B1-U0-G4	24561	78	B1-U0-G4	25075	79	B1-U0-G4	
	FTA	70	33164	105	B4-U0-G3	36058	114	B4-U0-G4	38559	122	B4-U0-G4	39366	124	B4-U0-G3	
FTA IL	70	23492	74	B2-U0-G2	25541	81	B2-U0-G2	27313	86	B2-U0-G2	27885	88	B2-U0-G2		
42L	2	70	36785	94	B4-U0-G3	39994	103	B5-U0-G4	42768	110	B5-U0-G4	43663	112	B5-U0-G4	390
	2 IL	70	23079	59	B1-U0-G3	25093	64	B2-U0-G3	26833	69	B2-U0-G3	27395	70	B2-U0-G3	
	3	70	38299	98	B3-U0-G5	41640	107	B4-U0-G5	44528	114	B4-U0-G5	45460	117	B4-U0-G5	
	3 IL	70	27886	72	B1-U0-G4	30319	78	B1-U0-G5	32422	83	B1-U0-G5	33100	85	B1-U0-G5	
	5W	70	36349	93	B5-U0-G4	39520	101	B5-U0-G4	42261	108	B5-U0-G4	43145	111	B5-U0-G4	
	FT	70	38073	98	B4-U0-G5	41395	106	B4-U0-G5	44266	114	B4-U0-G5	45192	116	B4-U0-G5	
	FT IL	70	24122	62	B1-U0-G4	26226	67	B1-U0-G4	28045	72	B1-U0-G4	28632	73	B1-U0-G4	
	FTA	70	37870	97	B4-U0-G4	41174	106	B4-U0-G4	44030	113	B4-U0-G4	44951	115	B4-U0-G4	
FTA IL	70	26825	69	B2-U0-G2	29165	75	B2-U0-G2	31188	80	B2-U0-G2	31841	82	B2-U0-G2		

*LED Chips are frequently updated therefore values are nominal

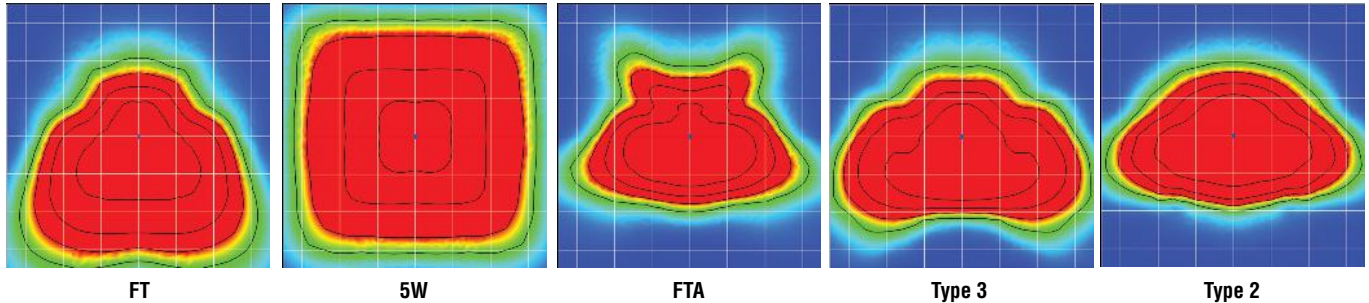
Specifications and dimensions subject to change without notice.



Slice Medium - SLM Outdoor LED Area Light

Performance (Cont.)

All published luminaire photometric testing performed to IESNA LM-79 standards. ISO footcandle plots below demonstrate the Slice (SLM) light patterns only. Not for total fixture output. For complete specifications and IES files, see website.



Ordering Guide

TYPICAL ORDER EXAMPLE: **SLM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

Luminaire Prefix	Light Source	Lumen Package*	Light Output	Distribution	Orientation ¹	Voltage	Driver
SLM Slice Medium	LED	9L - 9,000 lms 12L - 12,000 lms 18L - 18,000 lms 24L - 24,000 lms 30L - 30,000 lms 36L - 36,000 lms 42L - 42,000 lms *Consult factory for programmable wattages and lumen packages	SIL - Silicone	2 - Type 2 3 - Type 3 5W - Type 5 Wide FT - Forward Throw FTA - Forward Throw Automotive	(blank) - standard L - Optics rotated left 90 R - Optics rotated right 90	UNV - Universal Voltage (120-277V) HV - High Voltage (347-480V)	DIM - 0-10V Dimming (0-10%)

Color Temp	Color Rendering	Controls (Choose One)	Finish	Options
50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT ² 27 - 2,700 CCT ² AMB - Phosphor Converted Amber ^{2,3}	70CRI - 70 CRI	(Blank) - None <u>Wireless Controls System</u> ALSC - AirLink Synapse Control System ⁴ ALSCH - AirLink Synapse Control System Host / Satellite ^{4,5} ALSCS01 - AirLink Synapse Control System with 8-12' Motion Sensor ⁴ ALSCHS01 - AirLink Synapse Control System Host / Satellite with 8-12' Motion Sensor ^{4,5} ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor ⁴ ALSCHS02 - AirLink Synapse Control System Host / Satellite with 12-20' Motion Sensor ^{4,5} ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor ⁴ ALSCHS04 - AirLink Synapse Control System Host / Satellite with 20-40' Motion Sensor ^{4,5} <u>Stand-Alone Controls</u> EXT - 0-10v Dimming (from external signal) IMS0M1 - Integral Motion Sensor 8-12' 120-277V ^{4,6} IMS0M2 - Integral Motion Sensor 12-20' 120-277V ^{4,6} IMS0M4 - Integral Motion Sensor 20-40' 120-277V ^{4,6} IMS0M1HV - Integral Motion Sensor 8-12' 347-480V ⁶ IMS0M2HV - Integral Motion Sensor 12-20' 347-480V ⁶ IMS0M4HV - Integral Motion Sensor 20-40' 347-480V ⁶ CR7P - 7 Pin Control Receptacle ANSI C136.41 ⁷ <u>Button Type Photocells</u> PCI120 - 120V PCI208-277 - 208-277V PCI347 - 347V	BRZ - Bronze BLK - Black GPT - Graphite MSV - Metallic Silver WHT - White PLP - Platinum Plus SVG - Satin Verde Green	(Blank) - None IL - Integral Louver HSS ¹



Slice Medium - SLM Outdoor LED Area Light

Accessory Ordering Information⁸

Description	Order Number	Description	Order Number
PC120 Photocell for use with CR7P option (120V) ⁹	122514	DFK208, 240 Double Fusing (208V, 240V)	DFK240
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) ⁹	122515	DFK480 Double Fusing (480V)	DFK480
PC347 Photocell for use with CR7P option (347V) ⁹	122516	DFK347 Double Fusing (347V)	DFK347
PC480 Photocell for use with CR7P option (480V) ⁹	1225180	X5RPP - Round Pole Adapter for 5" Poles ¹⁰	379968CLR
ALSC UNV TL5 - Airlink 5Pin Twist Lock Controller ^{4,9}	661409	IL - Integral Louver HSS	684812
ALSC UNV TL7 - Airlink 7Pin Twist Lock Controller ^{4,9}	661410	Universal Mounting Bracket (UMB) ¹⁰	684616CLR
PMOS24 - 24V Pole-Mount Occupancy Sensor (ALSC/H Compatible) ¹⁰	663284CLR	Adjustable Slip Fitter (ASF) ¹⁰	688138CLR
IMS/PC Remote Configurator Tool	584929	Pole Quick Mount Bracket - Square Pole ¹⁰	687073CLR
X3RPP - Round Pole Adapter for 3" Round Tapered Poles ¹⁰	408273CLR	Pole Quick Mount Bracket - 4-5" Round Pole ¹⁰	689903CLR
X4RPP - Round Pole Adapter for 4" Poles ¹⁰	379967CLR	15° Tilt Pole Quick Mount Bracket - Square Pole ¹⁰	688003CLR
FK120 Single Fusing (120V)	FK120	15° Tilt Pole Quick Mount Bracket - 4-5" Round Pole ¹⁰	689905CLR
FK277 Single Fusing (277V)	FK277	BKS XBO WM * CLR Wall Mount Bracket ¹⁰	382132CLR

FOOTNOTES:

- 1 - Not available on "Type 5W" distribution.
- 2 - Consult Factory for availability.
- 3 - Only available in 9L and 12L Lumen Packages
- 4 - Not available in HV.
- 5 - Consult Factory for Site Layout
- 6 - IMS is field adjustable, via a hand held Remote Configurator Tool, which must be ordered separately. See Accessory Ordering Information.

7 - Control device must be ordered separately. 7 pin standard. See Accessory Ordering Information.

8 - Accessories are shipped separately and field installed.

9 - Factory installed CR7P option required. See Options.

10 - "CLR" denotes finish. See Finish options.

Accessories/Options

Integral Louver (IL)

Accessory Integral Louver available for improved back-light control without sacrificing street side performance. LSI's Integral Louver (IL) option delivers backlight control that significantly reduces light spill behind the pole for applications with pole locations close to adjacent properties. The integrated louvers' design maximizes forward-reflected light while - reducing glare, maintaining the optical distribution selected, and most importantly, eliminating light trespass. The Integral louver rotates with the optical distribution.

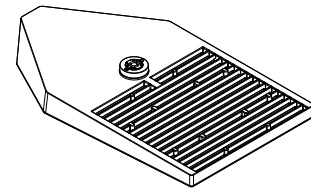
Luminaire Shown with Integral Louver (IL)



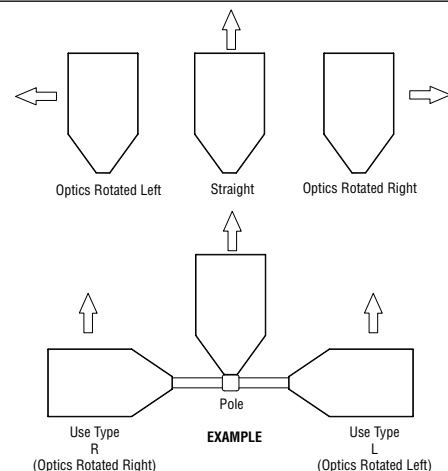
7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Fixture Shown with CR7P



Optics Rotation





Slice Medium - SLM Outdoor LED Area Light

Stand-alone Controls: Occupancy Sensor (IMS)

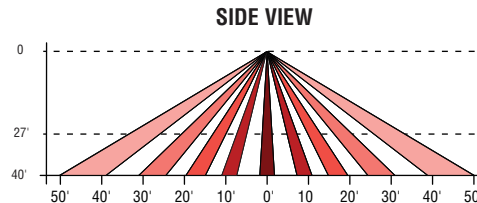
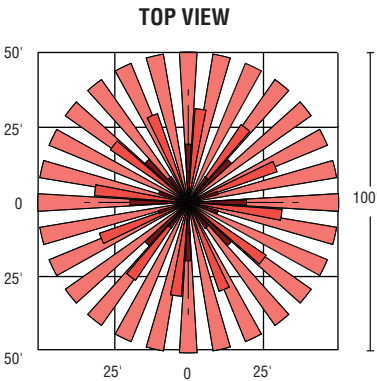
The integral passive infrared motion sensor activates switching of luminaire light levels. Standard Factory settings: High level light is activated and increased to full bright upon detection of motion. Lowlight level (10% maximum drive current) is activated when target zone is absent of motion activity for ~5 minutes. See coverage diagram for detection cone.

The Remote Configurator Tool allows for easy and safe programming of each luminaire from ground level. See the [Remote Configurator User Guide](#) for programming instructions.

When ordering the Stand-alone Occupancy Sensor on the fixture, you must include IMS (see ordering guide for mounting height options) as the controls option in the fixture nomenclature.

To order as a motion sensor with the AirLink Wireless Control System, see ordering guide under "Wireless Controls System" and select the ALSCS controls option with the desired mounting height.

IMS Coverage Diagrams



Remote Configurator Tool



Luminaire Shown with IMS





Slice Medium - SLM Outdoor LED Area Light



AirLink™
enabled by Synapse®

The AirLink enabled by Synapse Wireless Lighting Control System is the perfect solution for commercial, industrial and municipal applications, such as: auto dealerships, parking lots, garages, shopping complexes and warehouses.

AirLink utilizes robust wireless communication via 2.4 GHz Self-Healing Mesh Network which not only increases reliability and accuracy of system, but also eliminates single point of failure.

The flexibility of the system make it perfect for new construction and retrofit projects. The user-friendly AirLink web application is accessible through any device with an internet connection and allows for complete customization of the system's features.

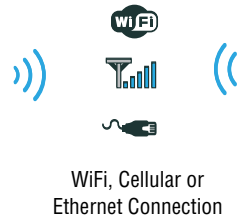
Some capabilities of the system include: occupancy/vacancy sensing, daylight harvesting, scheduling, high-end trim, dimming, zone control, BMS integration and energy monitoring.

The AirLink System

Wireless controls & sensors



Centralized control & integration



Simple-to-use software



AirLink Site Manager: Lighting control web app

Contact LSI Controls



Sales
controls.sales@lsi-industries.com



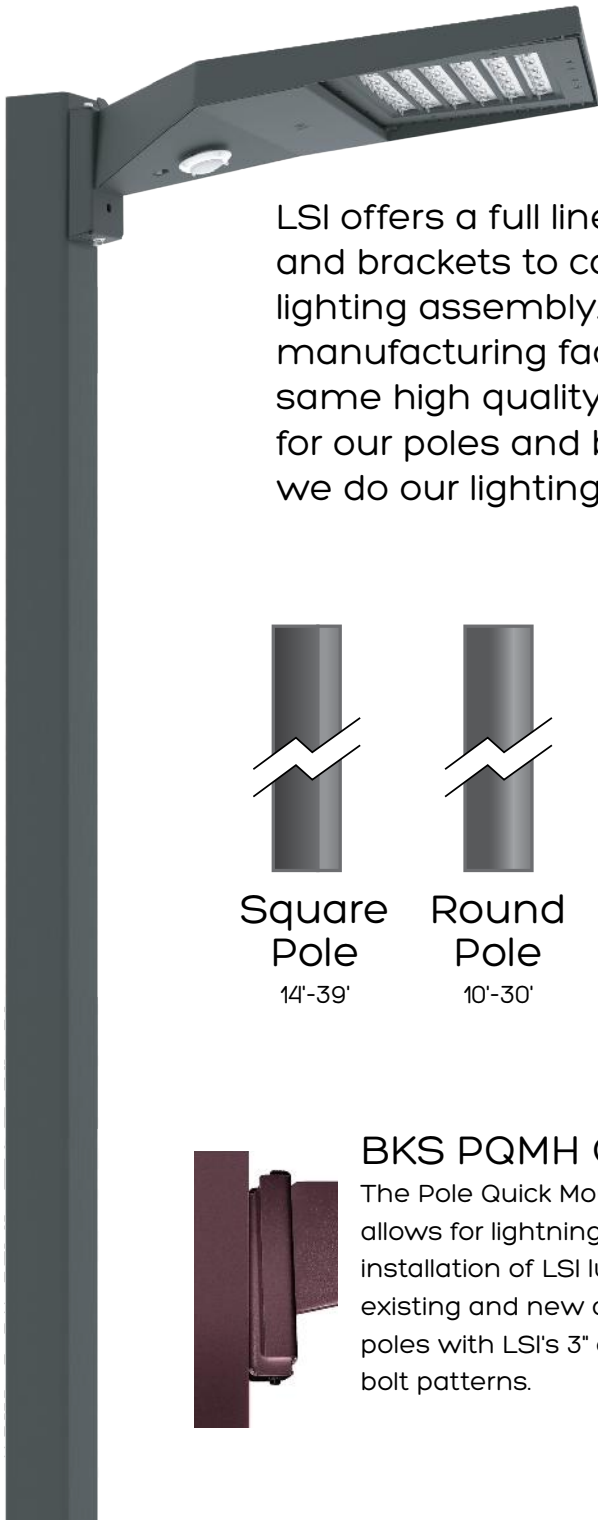
Support
controls.support@lsi-industries.com
1 (800) 436-7800 (support, option 8)



More information
For more information on AirLink, visit our website at www.lsi-airlink.com



poles & Brackets



LSI offers a full line of poles and brackets to complete your lighting assembly. Our USA manufacturing facility has the same high quality standards for our poles and brackets as we do our lighting fixtures.



BJA UMB CLR

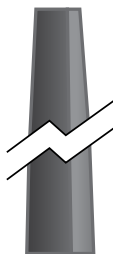
The 3G rated Universal Mounting Bracket (UMB) allows for seamless integration of LSI Luminaires onto existing or new construction poles. The UMB bracket was designed specifically for square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5"-5".



Square Pole
14'-39'



Round Pole
10'-30'



Tapered Pole
20'-39'



BJA ASF CLR

The adjustable Slip Fitter is a 3G rated rugged die cast aluminum adapter to mount LSI luminaires onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon. The Adjustable Slip Fitter can be rotated 180° allowing for tilting LSI luminaires up to 45° and 90° when using a vertical tenon.



BKS PQMH CLR

The Pole Quick Mount Bracket allows for lightning fast installation of LSI luminaires onto existing and new construction poles with LSI's 3" or 5" standard bolt patterns.



BKS PQM15 CLR

The Pole Quick Mount Bracket allows for preset 15° up tilt of LSI luminaires for greater throw of light and increased vertical illumination as well as fast installation onto poles with LSI's 3" or 5" bolt pattern.

6" LED Square Cylinder Down Wall Lantern Wall mounted • Wet location listed

Description:

6" LED Square Cylinder with heavy-duty aluminum construction, die-cast aluminum wall bracket. UL listed for wet locations. Powder coat for chipping and fading resistance. Dark Sky compliant for down light only. The P5643 is ideal for indoor/outdoor applications. It can be used in residential or light commercial installations.

Specifications:

- Black (-31) (painted)
- Die-cast aluminum Construction
- Ideal for a wide variety of interior and exterior applications.
- Die-cast aluminum construction with durable powder coated finish
- 3000K color temperature, 90+ CRI
- Dimmable to 10% brightness (See Dimming Notes)
- Back plate covers a standard 4" octagonal recessed outlet box
- Mounting strap for outlet box included
- 6" of wire supplied
- Meets California Title 24 high efficacy requirements for outdoor use only

Performance:

Number of Modules	1
Input Power	29w
Input Voltage	120 V
Input Frequency	60 Hz
Lumens/LPW (Source)	
Lumens/LPW (Delivered)	1800/60 (LM-79)
CCT	3000 K
CRI	90 CRI
Life (hours)	60,000 (L70/TM-21)
FCC	FCC Title 47, Part 15, Class B
Min. Start Temp	-30 °C
Max. Operating Temp	30 °C
Warranty	5 year warranty
Labels	cULus Wet location listed
	Meets California Title 24 high efficacy requirements for outdoor use only

P5643-31-30K

Images:



Dimensions:

Width: 6"
Height: 12"
H/CTR: 7-1/2"

6" LED Square Cylinder Down Wall Lantern Wall mounted • Wet location listed

P5643-31-30K

Dimming Notes:

P5643 is designed to be compatible with many ELV/Reverse Phase controls.

The following is a partial list of known compatible dimmer controls.

Dimming Controls

Lutron Diva DVELV-300P

Lutron Nova_T NTELV-300

Lutron Maestro MAELV-600

Dimming capabilities will vary depending on the dimmer control, load, and circuit installation. Always refer to dimmer manufacturer instructions or a controls specialist for specific requirements.

Dimmer control brand names where identified above are trade names or registered trademarks of each respective company.

FEATURES

- 4" architectural LED downlight cylinder delivering 600 up to 2000 lm
- Five beam distributions from 0.4 to 1.2 Spacing Criteria
- Quiet reflector appearance with 50° optical cutoff
- 2700K–5000K, 80+ and 90+ CRI options
- Available in Surface, Wall, Pendant or Cable/Cord Mount configurations
- Versatile canopy options for recessed and surface-mounted J-box applications
- Variety of dimming protocol options including 0–10V, DALI, DMX, and Lutron EcoSystem



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Seamless heavy gauge aluminum cylinder body with a clean appearance
- Available in Surface (S), Wall (W), Pendant (P), or Cable/Cord (CM) mounting types
- Canopy options include Conduit Canopy (CC), Power Canopy (PC), Power Conduit Canopy (PCC), or Recessed Mount Driver (RMD), (See Dimensions section for details)
- For S, P, or CM mounting with CC or PCC canopy options, use 4" octagonal junction box (by others)
- All Wall Mount: Die cast aluminum mounting arm allows direct mounting to standard 4" octagonal or square junction box
- Pendant Mount canopy options allow sloped ceiling up to 35° (5° for RMD)
- Select from 4 standard architectural painted finishes, Brushed Aluminum, or specified custom color

OPTICS

- Visually pleasing 50° cutoff to source and source image
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- High purity four panel aluminum reflector, self-flanged
- Large selection of anodized finishes and colors
- Painted cones and flange options available

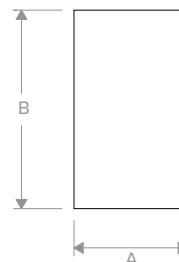
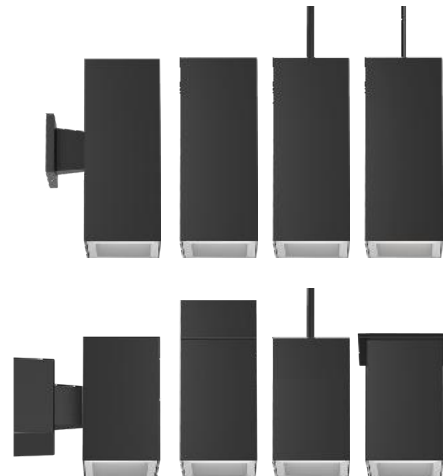
ELECTRICAL

- Chip-on-board LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >55,000 (TM-21)
- Universal voltage 120V–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection
- Flicker free 0–10V dimming with 1% or < 1% performance
- DALI, DMX, and Lutron EcoSystem options
- NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments
- Lutron Athena control options also available

INSTALLATION

- Light Engine/Trim assembly is mechanically secured with torsion springs for ease of installation
- A quick connect is provided for easy maintenance or upgrade
- Recessed Mount Driver (RMD) is accessible from above or below ceiling; assembly mounts with 1/4-20 threaded rod (by others) and requires 6" plenum clearance
- Conduit Canopy options (CC or PCC) allow field selectable conduit entry (up to 4@ 90°) (See Dimensions section)
- Conduit Canopies utilize a patent pending mounting yoke to secure cylinder to the ceiling surface
- Cord can be cut in the field to custom length
- Standard and Custom Pendant lengths available (specify when ordering)

LITEISTRY™



Typical Dimensions and Weights			
Lumen Package	"A" Width (SQ) Inches (mm)	"B" Height Inches (mm)	Weight lbs (kg)
06L–15L	5.6 (140)	14 (356)	20.7 (9.4)
20L–30L	5.6 (140)	14 (356)	21.1 (9.6)
35L–40L	5.6 (140)	14 (356)	21.5 (9.8)

See DIMENSIONS section for complete details

CERTIFICATIONS

- cCSAus certified to UL 1598
- Wall Mount up to 30L (except CC or PCC): Suitable for wet locations
- Pendant Mount up to 30L (except CC or PCC): Suitable for wet locations under covered ceiling
- Surface, Cord Mount, all 35L–40L and all CC and PCC: Suitable for damp locations
- All with EM options: Suitable for Damp location
- EM: Certified under UL924 standard for emergency lighting and power equipment
- EM: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant
- For -BAA Option: This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9). [See Buy America\(n\) Solutions](#)
- For -TAA Option: Product configurations meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11). [See Buy America\(n\) Solutions](#)
- ENERGY STAR® certified models available (For list and additional information, visit <http://www.energystar.gov>)

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	600–4000
Wattage Range	8–52
Efficacy Range (LPW)	89–99*
Reported Life (Hours)	L90 / >55,000
Input Current Range (mA)	67–433 (120V)

*Based on Specular, 35K, 80 CRI

ORDERING GUIDE

Example: LTC-4SQD-CM15WHPCC-15L35K9WD-DM1-SS-WH

CATALOG #

LTC-4SQD					
Aperture/Shape/Function		Cylinder Mounting	Canopy Option	Lumen Output	CCT
LTC-4SQD 4" Square Downlight Cylinder		S Surface	Refer to chart on Page 3 for available canopy options based on driver/controls selection	06L 600 Lumens ³	27K 2700K
LTC-4SQDS 4" Square Shallow Downlight Cylinder		W Wall		10L 1000 Lumens ³	30K 3000K
		P Pendant (Standard) Nominal 18" length from cylinder top to ceiling ¹⁰	Standard Canopy ^{3,9}	15L 1500 Lumens ³	35K 3500K
		P_ Pendant (Custom) Specify length from cylinder top to ceiling in 1 inch increments from 15 to 60 ¹⁰	CC Conduit Canopy ^{3,9}	20L 2000 Lumens ³	40K 4000K
			PC Power Canopy ^{3,9}	25L 2500 Lumens ³	50K 5000K ¹
			PCC Power Conduit Canopy ^{3,9}	30L 3000 Lumens ³	
			RMD Recessed Mount Driver ^{3,9}	35L 3500 Lumens ^{3,8}	
				40L 4000 Lumens ^{3,8}	
		Cord ⁵			
		CM 6ft Clear Cord			
		CMBL 6ft Black Cord			
		CMWH 6ft White Cord			
		CM15 15ft Clear Cord			
		CM15BL 15ft Black Cord			
		CM15WH 15ft White Cord			

Distribution		Driver Options	Control Options	Voltage	Options	Reflector Finish	Reflector Color
VNR Very Narrow (0.4 SC/23°) ¹²		DM1 0–10V Dimming to 1% ³	NX Lighting Controls	Standard 120–277V	EM 6W Emergency Battery Pack (CEC Title 20 Compliant) with integral test switch and indicator light ¹³	Finish not applicable with painted reflectors (WC or BC)	Standard Clear
NR Narrow (0.6 SC/37°)		DM01 0–10V Dimming to <1% ³	Networked Wireless	34 347V ^{3,6}		SS Semi-Specular	CG Champagne Gold
MD Medium (0.8 SC/46°)		DMX DMX with RDM dimming to <0.1% ^{3,7}	NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor ^{2,3,7}			S Specular	BL Black
WD Wide (1.0 SC/60°)		DALI DALI Dimming to 1% ³	Networked Wired			VS Softglow®	LW Light Wheat
XW Extra Wide (1.2 SC/69°)		EDM Lutron Hi-Lume EcoSystem Dimming to 1% ³	NXE NX Wired Enabled, Dual RJ45 SmartPORTS, without Sensor ^{2,3,7}				PW Pewter
		DM00 Lutron Athena compatible driver option ^{3,14}	Other Lighting Controls				WC Painted White Cone and Flange
			Networked Wireless				BC Painted Black Cone and Flange
			AWNRR Lutron Athena Enabled ^{3,7,14}				

Flange Color Options		Exterior Cylinder Color	Options
Standard matches reflector color		BA Brushed Aluminum ¹¹	BAA Buy American Act (FAR 52.225-9) Compliant
WT White Flange ⁴		BZ Bronze	TAA Trade Agreements Act (FAR 52.225-11) Compliant
BT Black Flange ⁴		BL Matte Black	
		WH Matte White	
		SVR Silver	
		CC_ Custom Color (Specify RAL#, Example: CCRAL1073)	
		TCC_ True Custom Color (Specify description, Example: TCC BABY BLUE, Paint chip must be provided to match)	

Notes:

- 5000K is available in 80+ CRI only.
- NX requires DM1 driver option.
- For lumen outputs/configurations available, see chart on page 3.
- WT not needed for WC; BT not needed for BC.
- Cord can be cut in the field to custom length.
- 347V available for 06L–30L; requires DM1 driver; not available with Controls, EM, EMR, DTS, GTD or F.
- Standard S, P, CM with DMX or controls options require RMD. (PC or PCC highly recommended), see Dimensions section for details.
- 35L and 40L require vented cylinder.
- See Dimensions section for canopy configuration details.
- Stem length varies by canopy configuration. See Dimensions section for details.
- Canopy and metal accent color for Brushed Aluminum is Black.
- VNR available up to 30L.
- EM for use with DM1 driver option only.
- DM00 must be selected with AWNRR Lutron Athena controls option.

DRIVER/CONTROL OPTION AVAILABILITY

Driver and Control options listed below are available in the configurations and lumen packages as shown.

For LTC-4SQD (14" cylinder body):

Driver/Control Option	Cylinder Mounting ¹	Canopy Options ²	06L	10L	15L	20L	25L	30L	35L	40L
DM1	0–10V 1%	W	Standard/CC	●	●	●	●	●	▼	▼
		P/S/CM	Standard/CC	●	●	●	●	●	▼	▼
DM01	0–10V <1%	W	Standard/CC	●	●	●	●			
		P/S/CM	Standard/CC	●	●	●	●			
DALI	DALI 1%	W	Standard/CC	●	●	●	●			
		P/S/CM	Standard/CC	●	●	●	●			
DMX	DMX w/ RDM <0.1%	W	Standard/CC	●	●	●	●	●	▼	▼
		P/S/CM	PC/PCC	●	●	●	●	●	▼	▼
			RMD ⁵	●	●	●	●	●		
			RMD	●	●	●	●	●	▼	▼
EDM	Lutron Hi-Lume EcoSystem 1%	W	Standard/CC		●	●	●	●		
		S/P/CM	Standard/CC		●	●	●	●		
347V ³	347 Volts (DM1 required)	W	Standard/CC	●	●	●	●	●		
		P/S/CM	Standard/CC	●	●	●	●	●		
NXE	NX Wired (DM1 required)	W	PC/PCC	●	●	●	●			
		P/S/CM	PC/PCC/RMD	●	●	●	●			
NXW	NX Wireless (DM1 required)	W	PC/PCC	●	●	●	●			
		S	RMD	●	●	●	●			
		P/CM	PC/PCC/RMD	●	●	●	●			
DM00/AWNR	Lutron Athena 0–10V Dim to Off	W	PC/PCC	●	●	●	●			
		S	RMD	●	●	●	●			
		P/CM	PC/PCC/RMD	●	●	●	●			
Driver/EM Option	Cylinder Mounting ¹	Canopy Options ²	06L	10L	15L	20L				
DM1 with EM option ⁶	0–10V 1%	W	Standard/CC	●	●	▼				
		P/S/CM	Standard/CC	●	●	▼				

For LTC-4SQDS Shallow (9" cylinder body):

Driver/Control Option	Cylinder Mounting	Canopy Options	06L	10L	15L	20L	25L
DM1	0–10V 1%	W	PC/PCC	●	●	●	●
		P/S/CM	PC/PCC	●	●	●	●
DM01	0–10V <1%	W	PC/PCC	●	●	●	●
		P/S/CM	PC/PCC	●	●	●	●
DALI	DALI 1%	W	PC/PCC	●	●	●	●
		P/S/CM	PC/PCC	●	●	●	●
DMX	DMX w/ RDM <0.1%	W	PC/PCC	●	●	●	●
		P/S/CM	PC/PCC	●	●	●	●
		P/S/CM	RMD	●	●	●	●
EDM	Lutron Hi-Lume EcoSystem 1%	W	PC/PCC		●	●	●
		P/S/CM	PC/PCC		●	●	●
347V ³	347 Volts (DM1 required)	W	PC/PCC	●	●	●	●
		P/S/CM	PC/PCC	●	●	●	●
NXE	NX Wired (DM1 required)	W	PC/PCC	●	●	●	●
		P/S/CM	PC/PCC	●	●	●	●
			RMD	●	●	●	●
NXW	NX Wireless (DM1 required)	W	PC/PCC	●	●	●	●
		S	RMD	●	●	●	●
		P/CM	PC/PCC/RMD	●	●	●	●
DM00/AWNR ⁶	Lutron Athena 0–10V Dim to Off	W	PC/PCC	●	●	●	●
		S	RMD	●	●	●	●
		P/CM	PC/PCC/RMD	●	●	●	●

▼ Vented cylinder required, see line art for more details.

¹ See Cylinder Mounting chart.

² See Canopy Options chart and Dimensions section for details.

³ Not available with Controls or EM.

⁴ RMD is Non-IC rated unless noted.

⁵ IC Rated.

⁶ EM option not available with Controls.

Cylinder Mounting		Canopy Options	
S	Surface Mount	(Blank)	Standard Canopy
W	Wall Mount	CC	Conduit Canopy
P	Pendant Mount	PC	Power Canopy
CM	Cord Mount	PCC	Power Conduit Canopy
		RMD	Recessed Mount Driver ⁴

NX LIGHTING CONTROLS

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	-	-	✓	✓	✓		NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	✓	✓	✓	-	-	✓	✓	✓ ¹		NXDSP

¹ Requires NXBTC, order separately.

NX LIGHTING CONTROLS APP



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.



Android



Apple iOS

OTHER LIGHTING CONTROLS

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
Other	AWNDR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. ¹	✓	✓	-	-	-	✓	✓	-		A-WN-D01-RF-WH

¹ Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

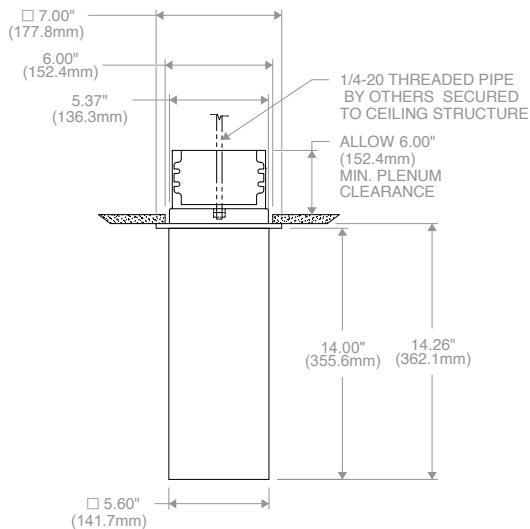
PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

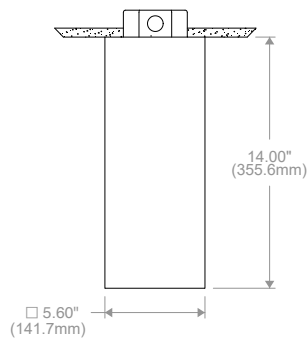
Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
06L	600	Very Narrow	705	8.2	86
		Narrow	796	7.8	102
		Medium	764	7.8	98
		Wide	678	7.8	87
		Extra Wide	643	7.8	82
10L	1000	Very Narrow	1158	12.5	92
		Narrow	1273	12.0	106
		Medium	1222	12.0	102
		Wide	1085	12.0	90
		Extra Wide	1028	12.0	86
15L	1500	Very Narrow	1663	18.0	92
		Narrow	1821	18.6	98
		Medium	1748	18.6	94
		Wide	1552	18.6	83
		Extra Wide	1471	18.6	79
20L	2000	Very Narrow	2090	23.3	90
		Narrow	2237	22.7	99
		Medium	2209	22.7	97
		Wide	2081	22.7	92
		Extra Wide	2026	22.7	89
25L	2500	Very Narrow	2520	29.6	85
		Narrow	3029	27.8	109
		Medium	2907	27.8	105
		Wide	2580	27.8	93
		Extra Wide	2446	27.8	88
30L	3000	Very Narrow	2944	37.0	80
		Narrow	3636	34.6	105
		Medium	3490	34.6	101
		Wide	3097	34.6	90
		Extra Wide	2936	34.6	85
35L	3500	Narrow	4343	42.9	101
		Medium	4169	42.9	97
		Wide	3700	42.9	86
		Extra Wide	3507	42.9	82
40L	4000	Narrow	4957	51.5	96
		Medium	4758	51.5	92
		Wide	4222	51.5	82
		Extra Wide	4003	51.5	78

DIMENSIONS

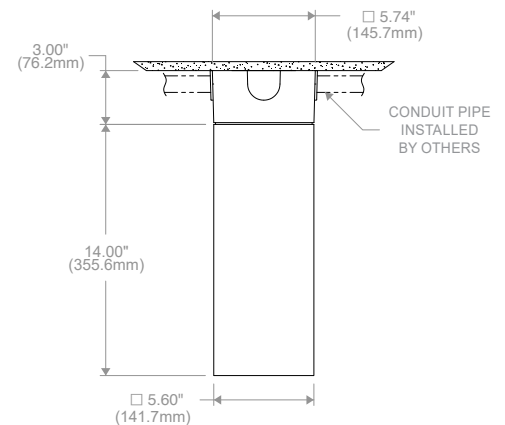
LTC-4SQD (14" CYLINDER BODY) SURFACE (S)



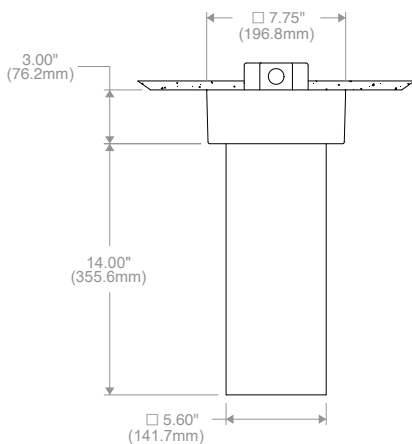
**Surface
Recessed Mount Driver
SRMD**



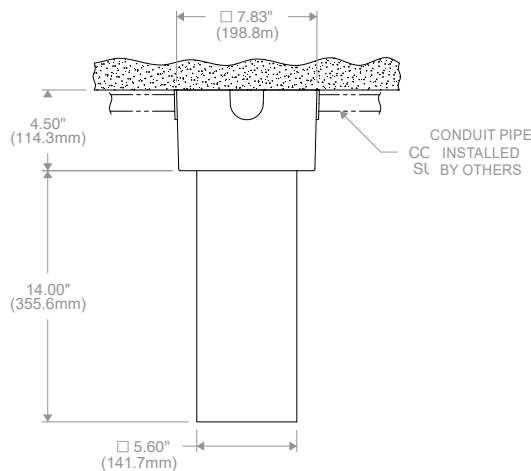
**Surface
Standard Canopy
S**



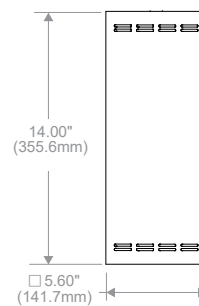
**Surface
Conduit Canopy
SCC**



**Surface
Power Canopy
SPC**



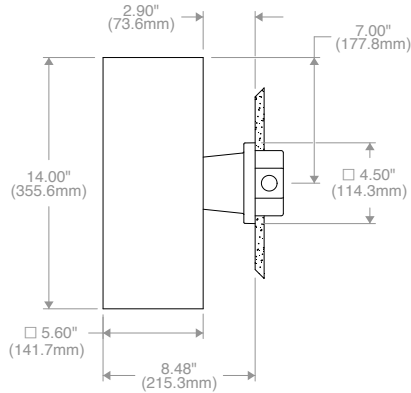
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Power Conduit Canopy
SPCC**



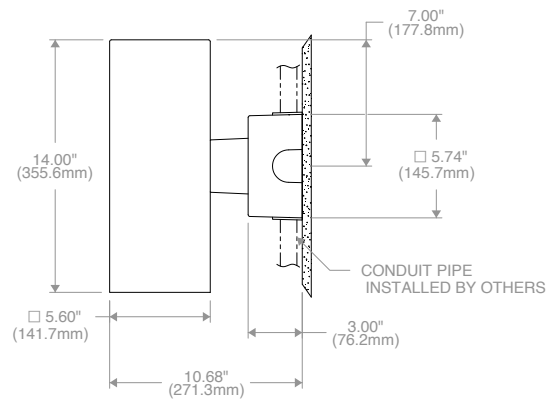
**Vented Detail view
All 35L and 40L
(All Mountings)**

DIMENSIONS

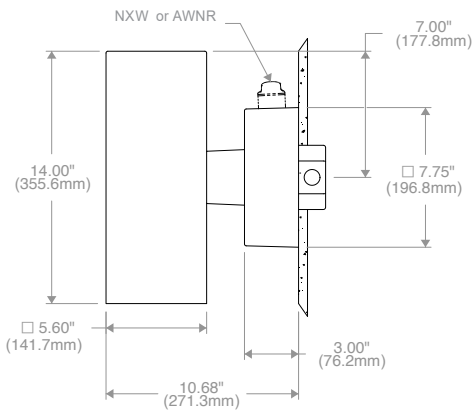
LTC-4SQD (14" CYLINDER BODY) WALL (W)



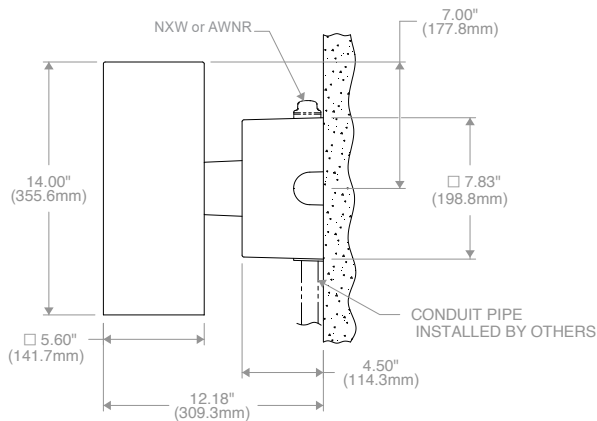
Wall
(Standard Canopy)
W



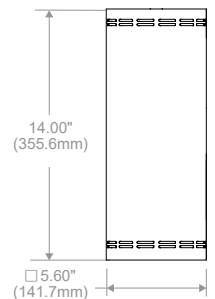
Wall
Conduit Canopy
WCC



Wall
Power Canopy
WPC



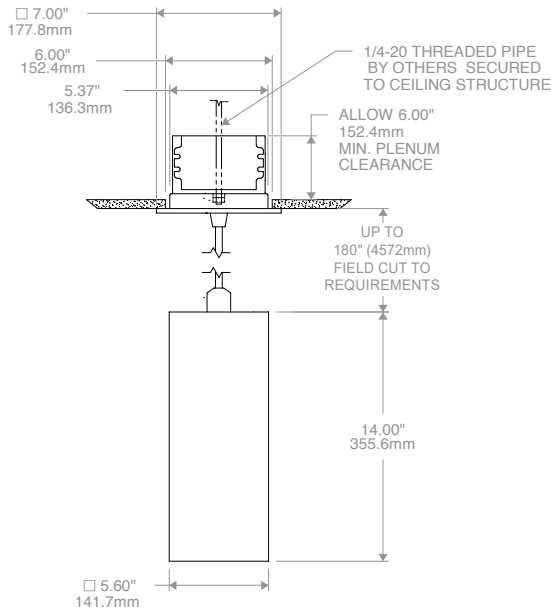
Wall
Power Conduit Canopy
WPCC



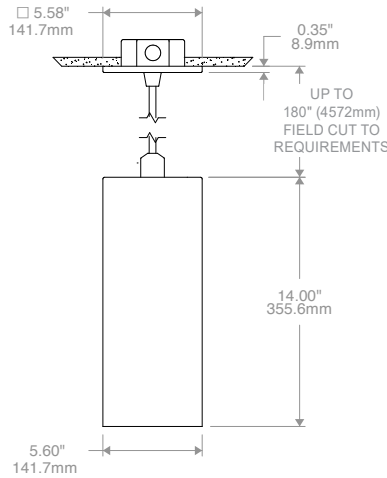
Vented Detail view
All 35L and 40L
(All Mountings)

DIMENSIONS

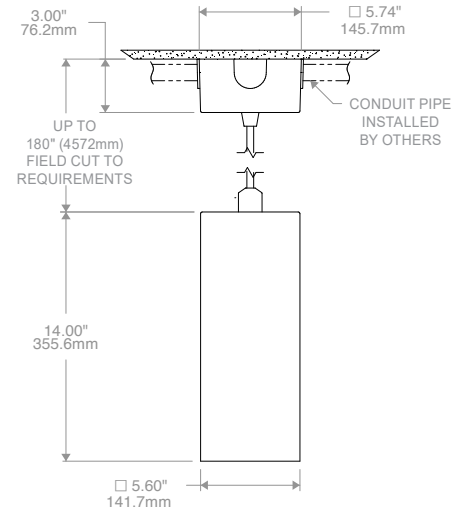
LTC-4SQD (14" CYLINDER BODY) CORD (CM)



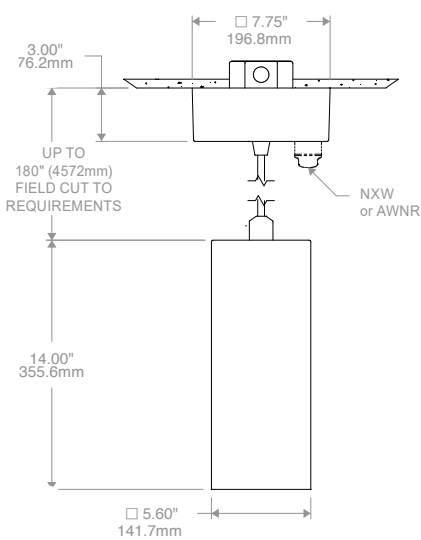
**Cord
Recessed Mount Driver
CMRMD**



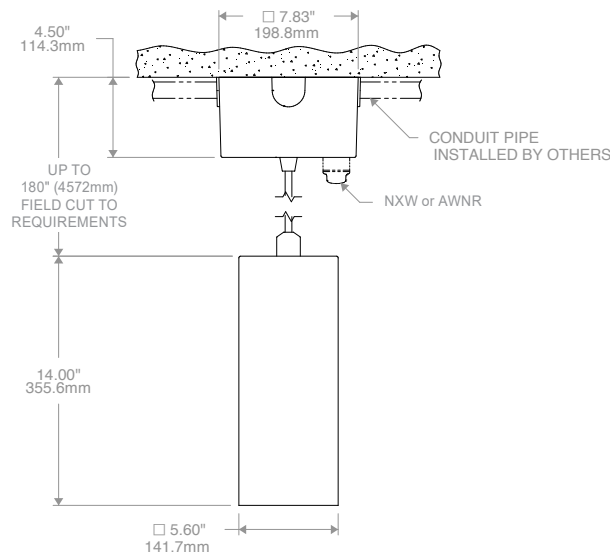
**Cord
(Standard Canopy)
CM**



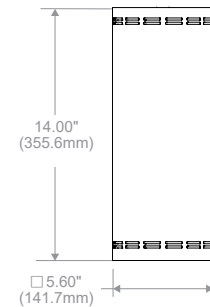
**Cord
Conduit Canopy
CMCC**



**Cord
Power Canopy
CMPC**



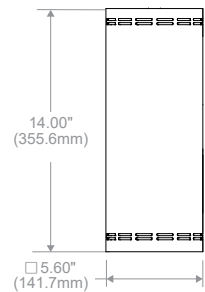
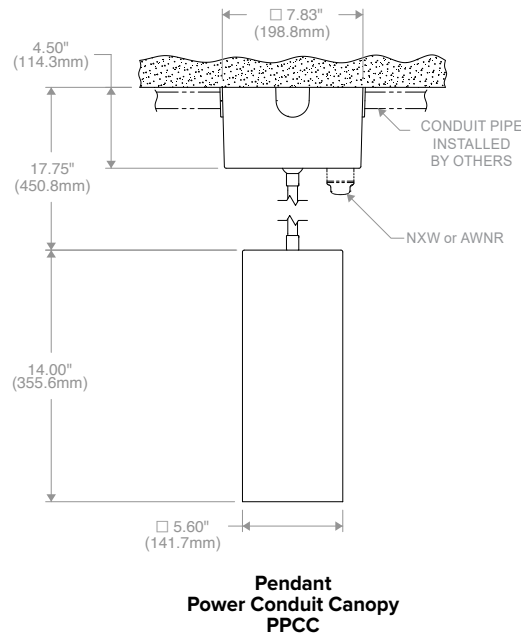
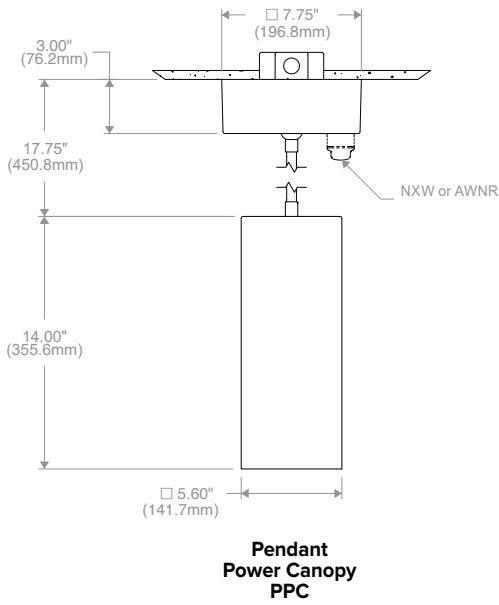
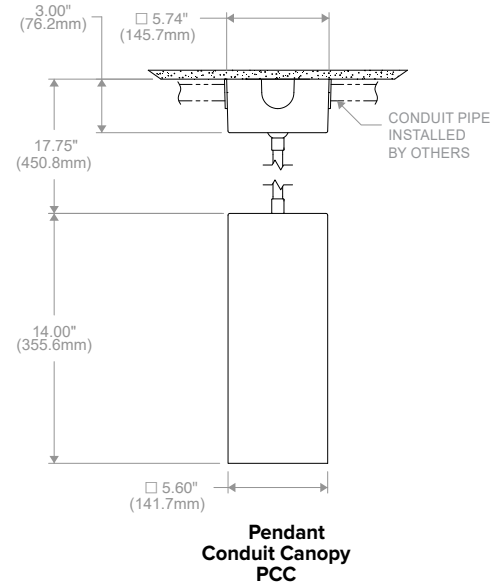
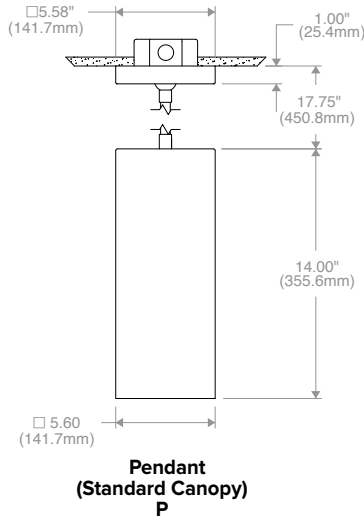
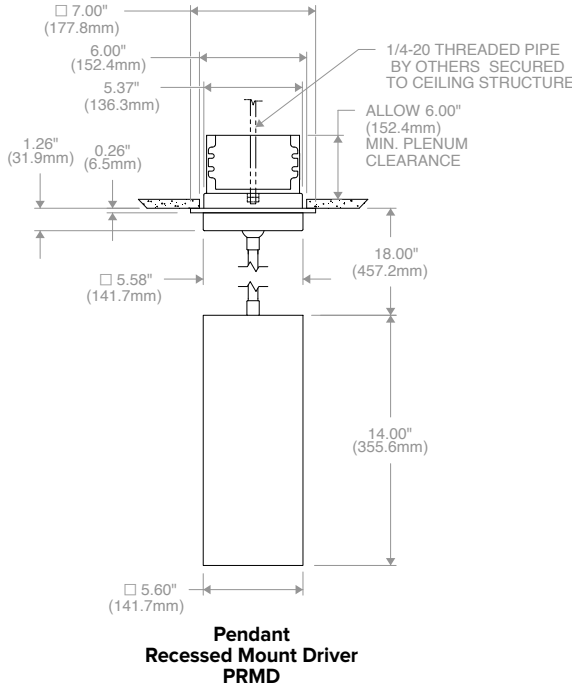
**Cord
Power Conduit Canopy
CMPCC**



**Vented Detail view
All 35L and 40L
(All Mountings)**

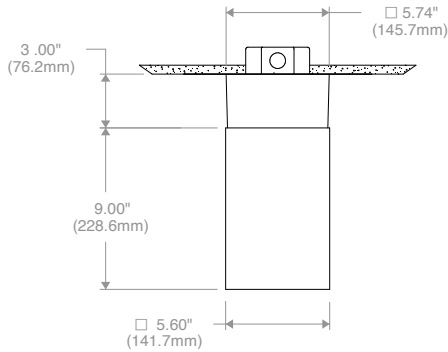
DIMENSIONS

LTC-4RD (14" CYLINDER BODY) PENDANT (P)

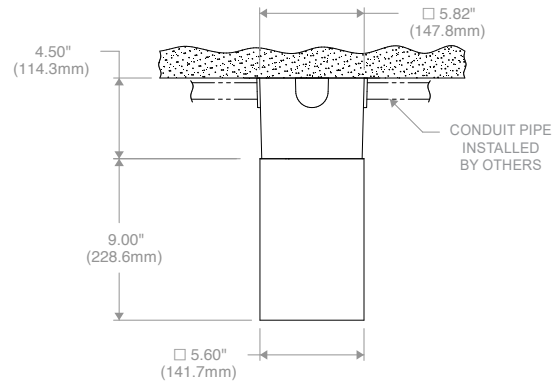


DIMENSIONS

LTC-4SQDS (9" CYLINDER BODY) SURFACE (S)

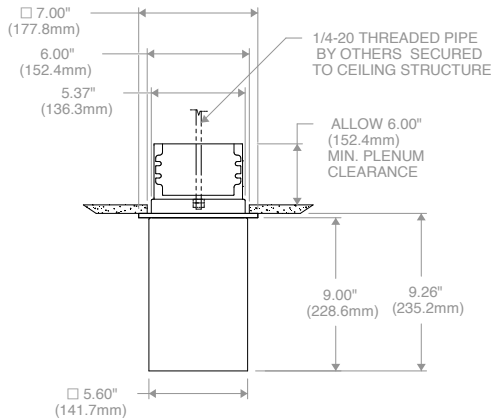


**Surface
Power Canopy
SPC**

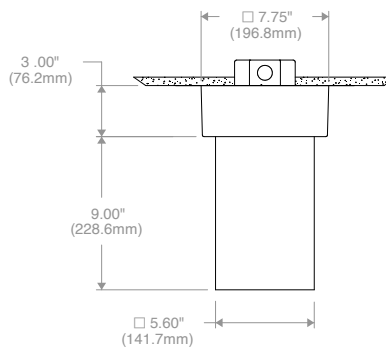


**Surface
Power Conduit Canopy
SPCC**

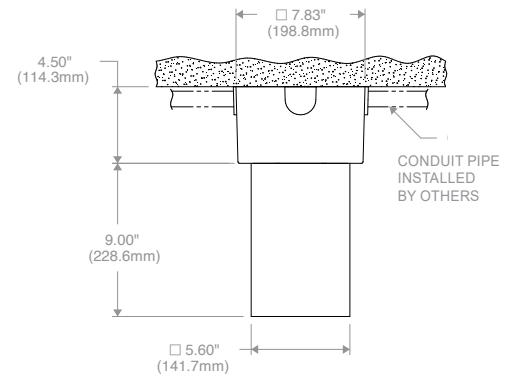
(FOR DMX OR CONTROLS OPTIONS ONLY)



**Surface
Recessed Mount Driver
SRMD**



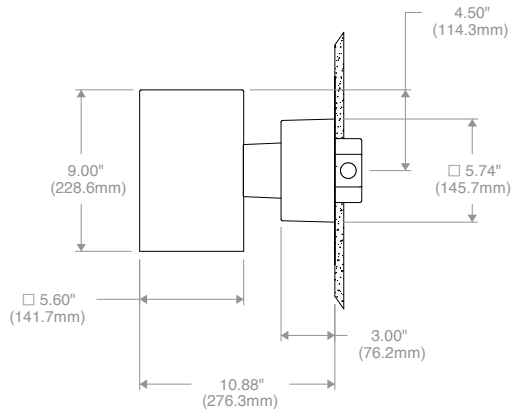
**Surface
Power Canopy
SPC**



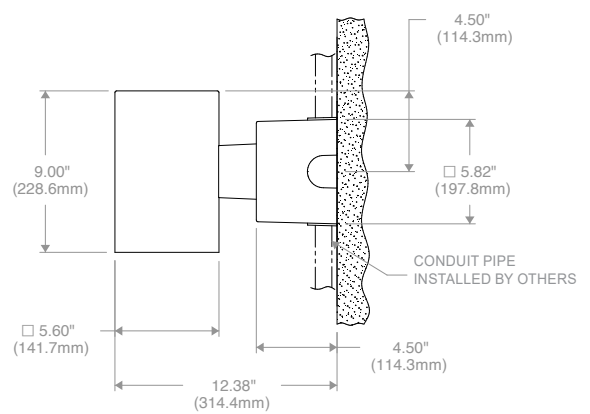
**Surface
Power Conduit Canopy
SPCC**

DIMENSIONS

LTC-4SQDS (9" CYLINDER BODY) WALL (W)

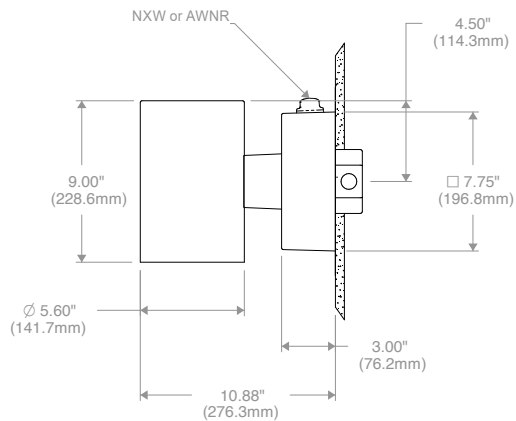


Wall
Power Canopy
WPC

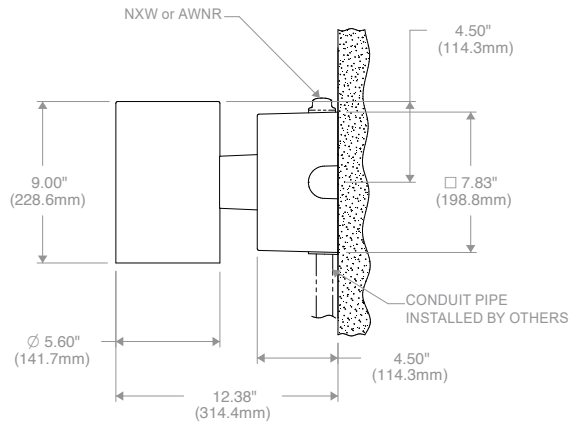


Wall
Power Conduit Canopy
WPCC

(FOR DMX OR CONTROLS OPTIONS ONLY)



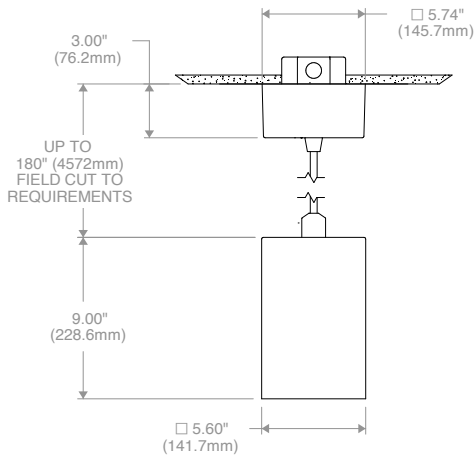
Wall
Power Canopy
WPC



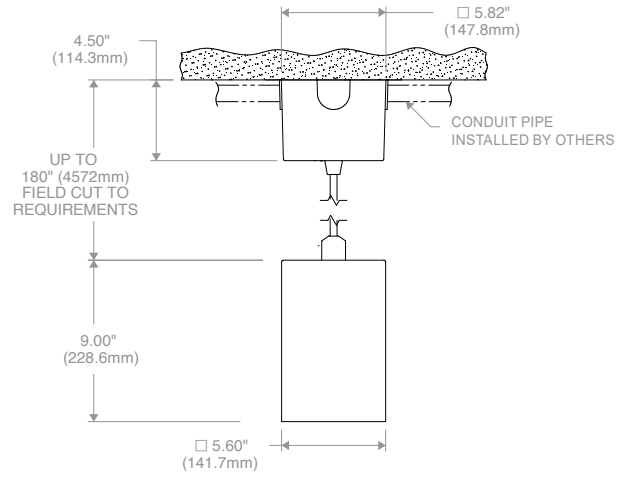
Wall
Power Conduit Canopy
WPCC

DIMENSIONS

LTC-4SQDS (9" CYLINDER BODY) CORD MOUNT (CM)

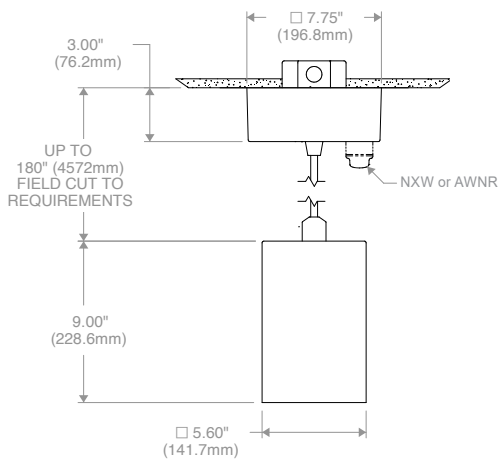


Wall
Power Canopy
WPC

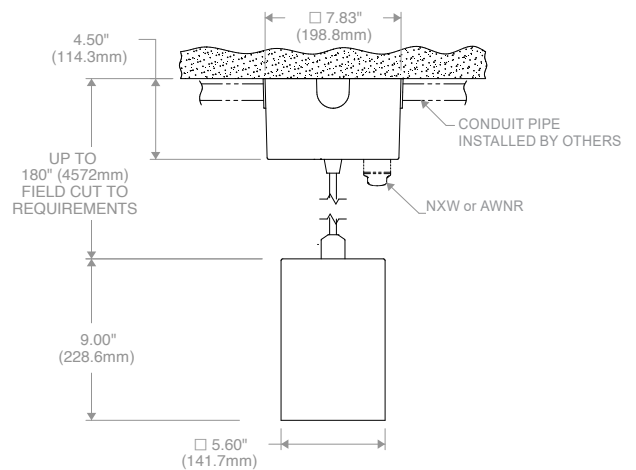


Wall
Power Conduit Canopy
WPCC

(FOR DMX OR CONTROLS OPTIONS ONLY)



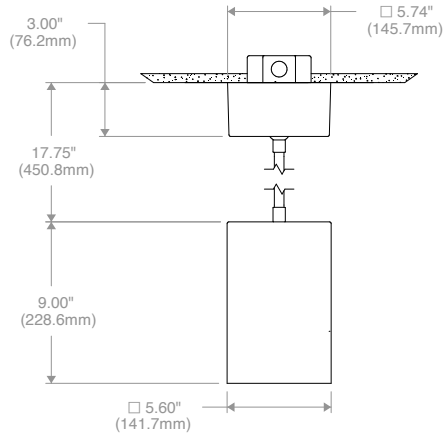
Wall
Power Canopy
WPC



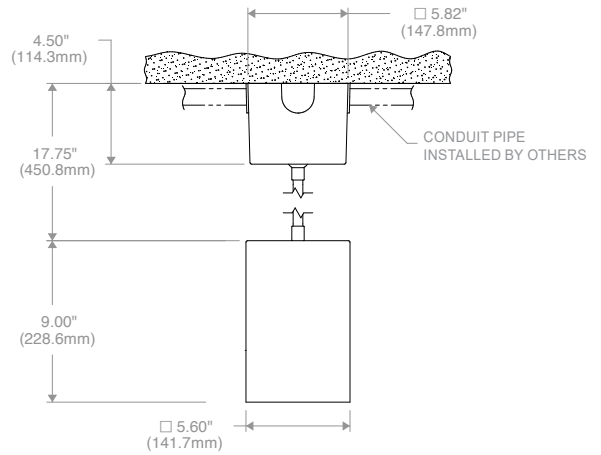
Wall
Power Conduit Canopy
WPCC

DIMENSIONS

LTC-4SQDS (9" CYLINDER BODY) PENDANT (P)

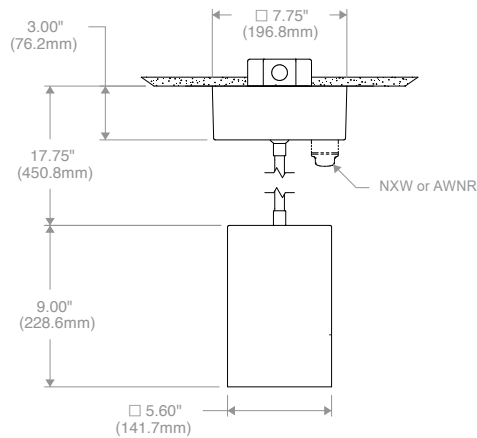


Pendant
Conduit Canopy
PCC

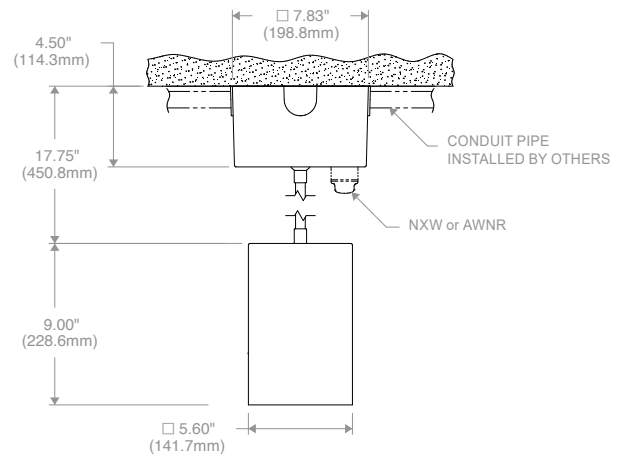


Pendant
Power Canopy
PPC

(FOR DMX OR CONTROLS OPTIONS ONLY)



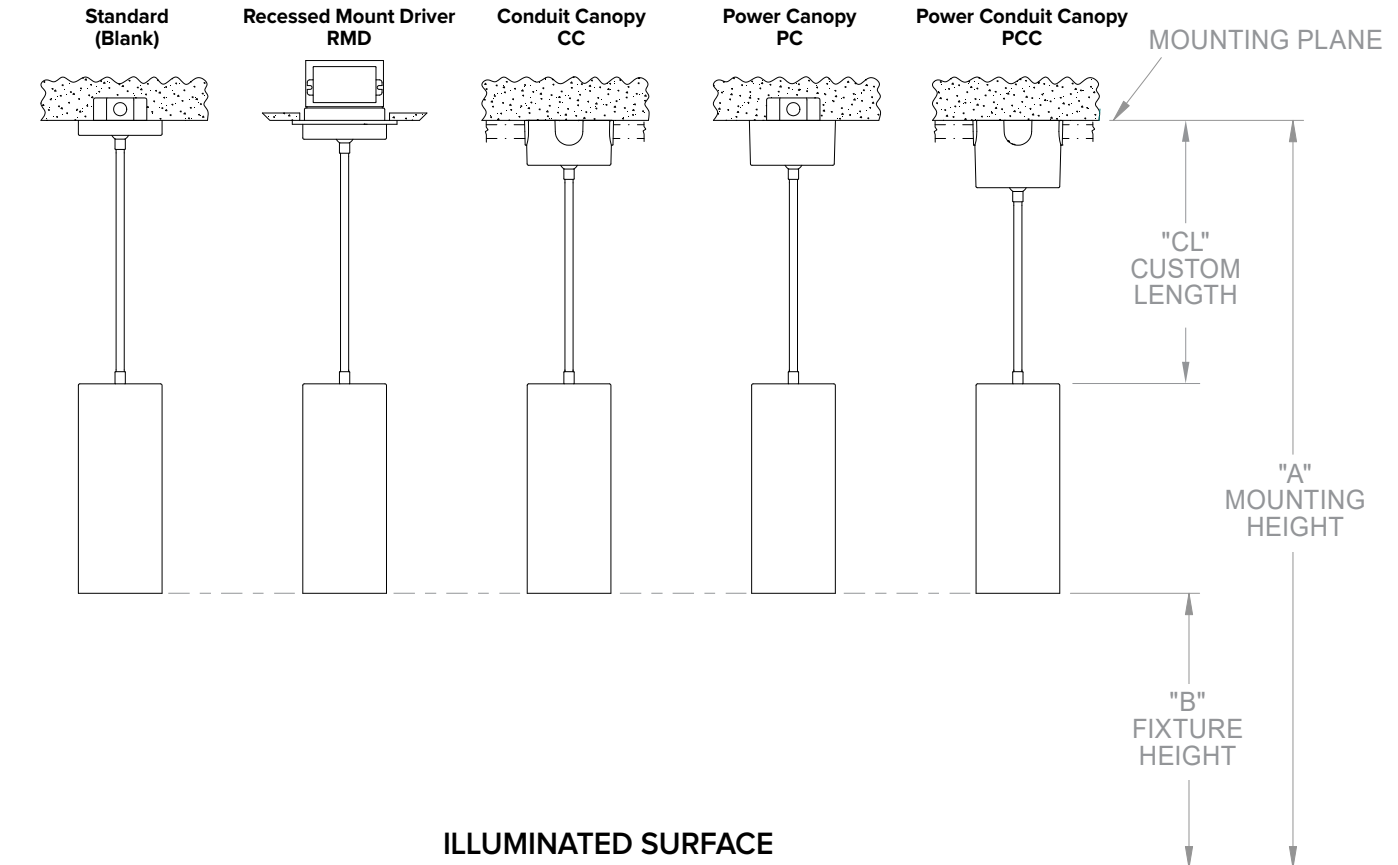
Pendant
Conduit Canopy
PCC



Pendant
Power Canopy
PPC

DIMENSIONS

PENDANT CUSTOM LENGTH



Custom Length (CL) = Mounting Height (A) - Fixture Height (B) - Cylinder Body Length

Ordering Example:

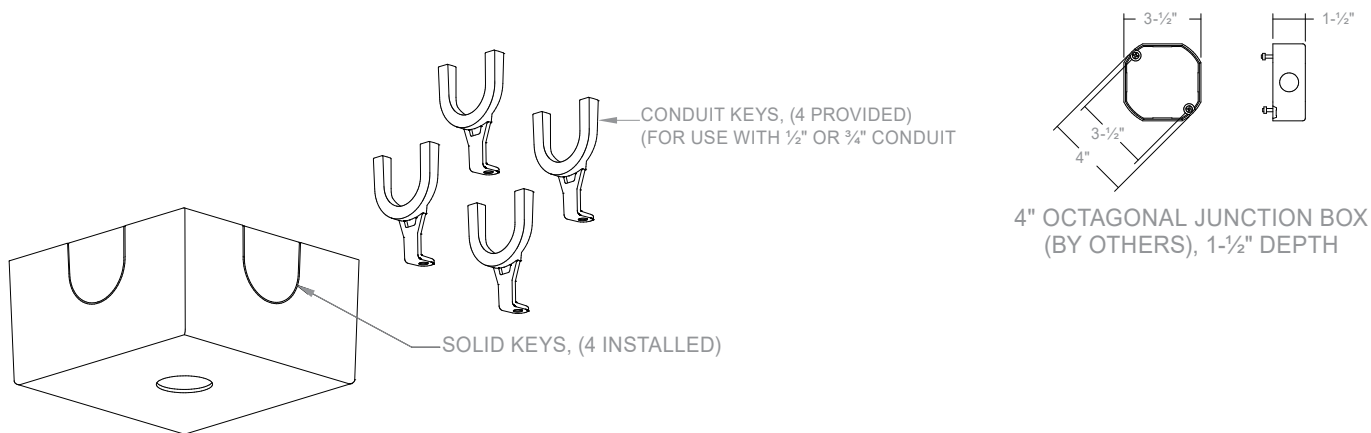
A (120") - B (72") - 14" = 34" Custom Length
LTC-4SQD-P34

A (120") - B (72") - 9" = 39" Custom Length
LTC-4SQDS-P39

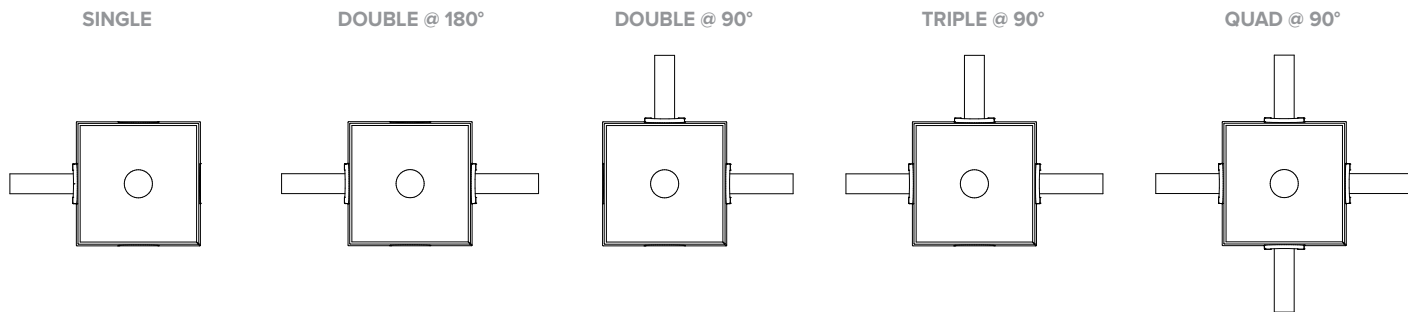
DIMENSIONS

CONDUIT CANOPY DETAILS

CC and PCC Conduit Canopy options come standard with (4) Solid Keys installed and (4) Conduit Keys provided. Accommodates a 4" octagonal junction box with 1-1/2" depth (by others).



CONDUIT MOUNTING EXAMPLES - FIELD INTERCHANGEABLE



PHOTOMETRY

LTC-4SQD-P-20L35K8VNR-DM1-S-BL

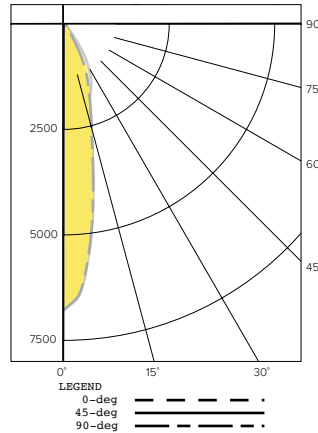
LUMINAIRE DATA

Test No.	R20.01214-C01
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	2090
Watts	23.3W
Efficacy	90
Mounting	Pendant
Spacing Criterion	0.4
Beam Angle (FWHM)	23

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1994	95.4
0-60	2083	99.6
0-90	2090	100.0
0-180	2090	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	6726	6726	6726
5	5842	5834	5819
15	2473	2412	2440
25	1158	1490	1150
35	199	626	199
45	110	133	110
55	17	21	17
65	5	5	4
75	2	2	2
85	0	0	0
90	0	0	0

LTC-4SQD-P-20L35K8NR-DM1-S-BL

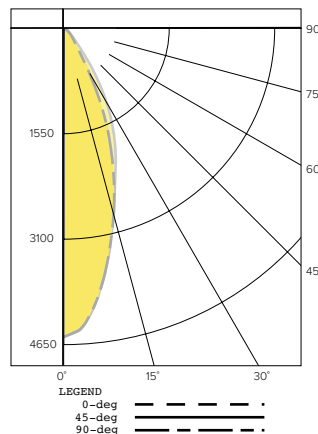
LUMINAIRE DATA

Test No.	R19.00949-01
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	2237
Watts	22.7W
Efficacy	98.7
Mounting	Pendant
Spacing Criterion	0.6
Beam Angle (FWHM)	37

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2103	94.0
0-60	2227	99.6
0-90	2237	100.0
0-180	2237	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	4527	4527	4527
5	4233	4235	4231
15	2801	2791	2788
25	1321	1711	1318
35	282	655	283
45	110	133	110
55	23	30	24
65	5	6	5
75	2	2	2
85	1	1	1
90	0	0	0

LTC-4SQD-P-20L35K8MD-DM1-S-BL

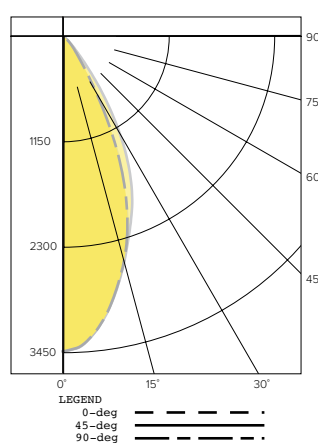
LUMINAIRE DATA

Test No.	R19.00950-01
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	2209
Watts	22.7W
Efficacy	97.4
Mounting	Pendant
Spacing Criterion	0.8
Beam Angle (FWHM)	46

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2056	93.1
0-60	2199	99.6
0-90	2209	100.0
0-180	2209	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	3435	3435	3435
5	3305	3309	3307
15	2550	2565	2556
25	1414	1761	1424
35	365	739	371
45	123	155	124
55	26	34	26
65	6	6	5
75	2	3	2
85	1	1	1
90	0	0	0

PHOTOMETRY (CONTINUED)

LTC-4SQD-P-20L35K8WD-DM1-S-BL

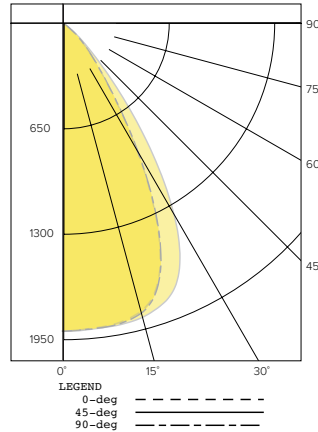
LUMINAIRE DATA

Test No.	R19.01045-01
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	2081
Watts	22.7W
Efficacy	91.8
Mounting	Pendant
Spacing Criterion	1.0
Beam Angle (FWHM)	60

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1846	96.3
0-60	2068	99.8
0-90	2081	100.0
0-180	2081	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1906	1906	1906
5	1897	1902	1900
15	1850	1887	1861
25	1392	1702	1403
35	549	939	558
45	190	257	192
55	38	52	39
65	7	8	7
75	3	3	3
85	1	1	1
90	0	0	0

LTC-4SQD-P-20L35K8XW-DM1-S-BL

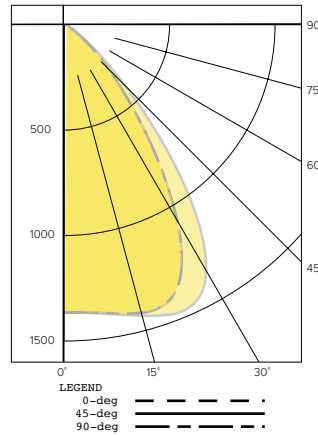
LUMINAIRE DATA

Test No.	R19.00952-01
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	2026
Watts	22.7W
Efficacy	89.2
Mounting	Pendant
Spacing Criterion	1.2
Beam Angle (FWHM)	69

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1699	83.9
0-60	2012	99.3
0-90	2026	100.0
0-180	2026	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1368	1368	1368
5	1373	1375	1373
15	1418	1432	1417
25	1304	1458	1301
35	741	1064	738
45	271	376	271
55	48	73	49
65	8	9	8
75	3	3	3
85	1	1	1
90	0	0	0

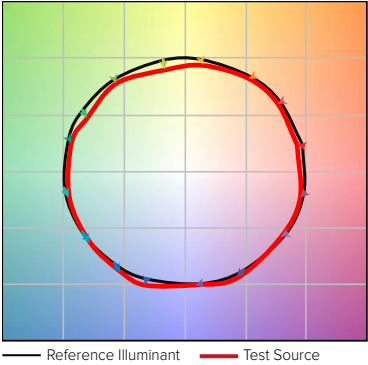
LUMEN MULTIPLIER

Option	27K8	30K8	35K8	40K8	50K8	27K9	30K9	35K9	40K9
Multiplier	0.94	0.98	1.00	1.01	1.02	0.81	0.84	0.85	0.85

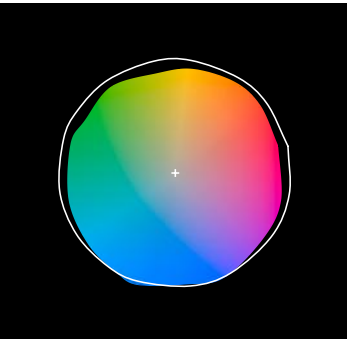
Photometrics are published below at a nominal 3500 Kelvin, 80+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI

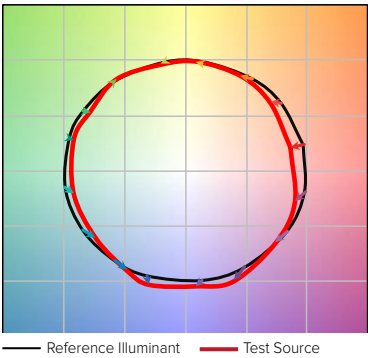


COLOR DISTORTION GRAPHIC
3500K, 90 CRI

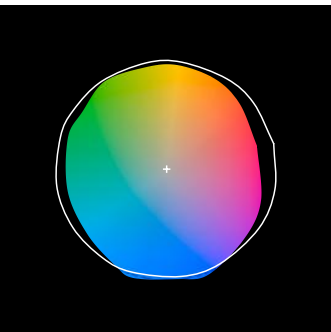


TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R _f	84	88
R _g	95	95
CCT (K)	3411	3419
D _{uv}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R _a	84	93
CIE R _g	11	62

COLOR VECTOR GRAPHIC
3500K, 80 CRI



COLOR DISTORTION GRAPHIC
3500K, 80 CRI



ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120–277 V	347 V
Input Frequency	50/60 Hz	50/60 Hz
Power Factor	≥0.90	≥0.90
THD	<20%	<20%
EMI Filtering (FCC 47 CFR Part 15)	Class A	Class A
Operating Temperature	-20° C to 40° C	-20° C to 40° C

* Values for DMI option shown, values for other dimming options may vary.

ADDITIONAL INFORMATION

Dimming Compatibility

For more details and recommended dimmer list, see Dimming Compatibility Information on currentlighting.com/prescolite.

DMX

See instruction sheet on currentlighting.com/prescolite for connection & installation information.

Lumen Output in Emergency Mode

To determine the lumen output in emergency mode multiply the battery pack wattage by the fixture lumens per watt (LPW). For example, 6W x 120 LPW = 720 lumens in emergency mode.



SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.
10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403
P: 802-864-2323 FAX: 802-864-2271 web: www.caa-vt.com

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DRAWN MAB	
CHECKED DSM	
APPROVED DSM	

CLIENT:

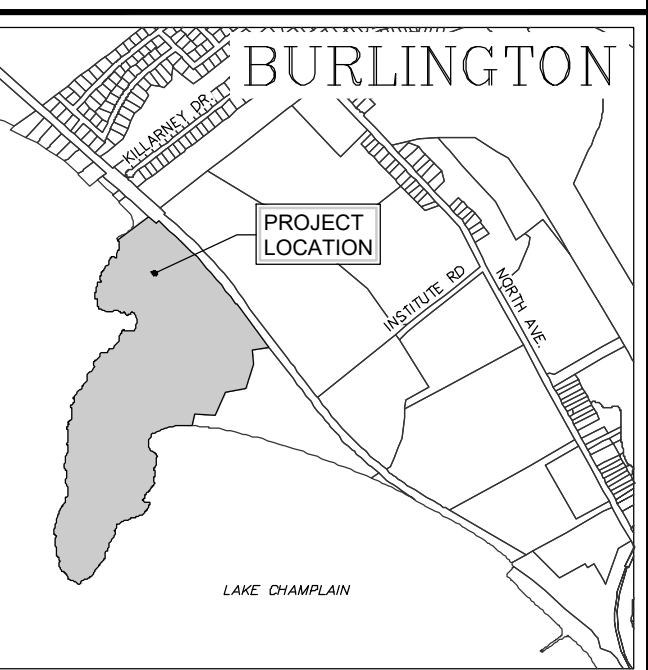
ROCK POINT COMMONS

20 ROCK POINT ROAD
BURLINGTON, VERMONT

PROJECT:

ROCK POINT CONFERENCE CENTER

ROCK POINT ROAD
BURLINGTON, VERMONT



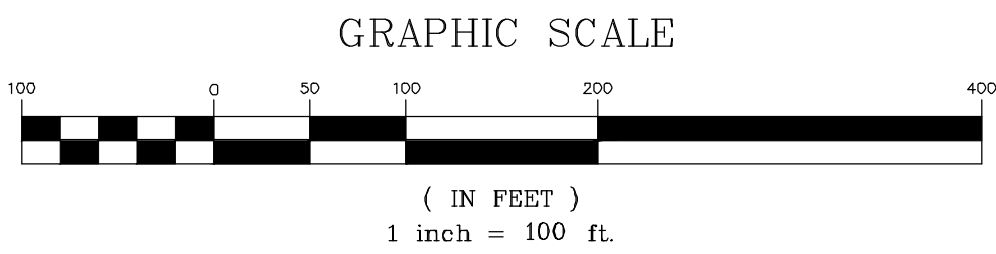
LOCATION MAP

1" = 2000'

DATE	CHECKED	REVISION

OVERALL ACCESS DRIVEWAY IMPROVEMENT PLAN

DATE 10/20/2023	DRAWING NUMBER C2.4
SCALE 1" = 100'	
PROJ. NO. 23175	





SITE ENGINEER:



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DRAWN MAB	
CHECKED DSM	
APPROVED DSM	

CLIENT:

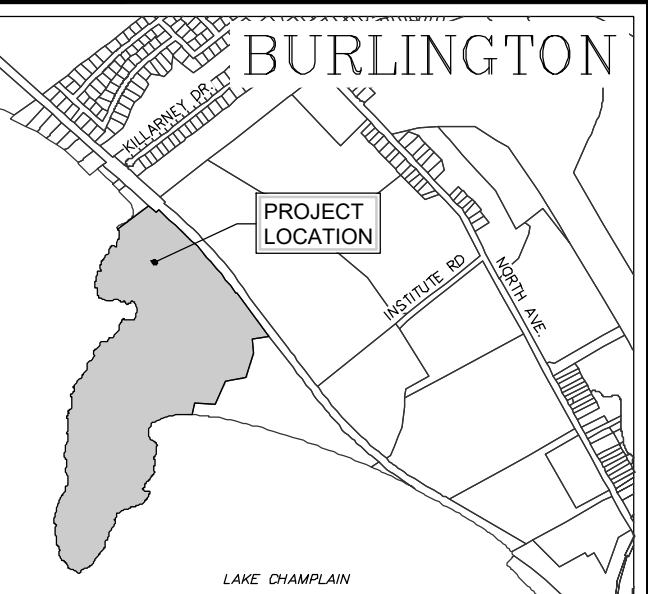
**ROCK POINT
COMMONS**

20 ROCK POINT ROAD
BURLINGTON, VERMONT

PROJECT:

**ROCK POINT
CONFERENCE
CENTER**

ROCK POINT ROAD
BURLINGTON, VERMONT

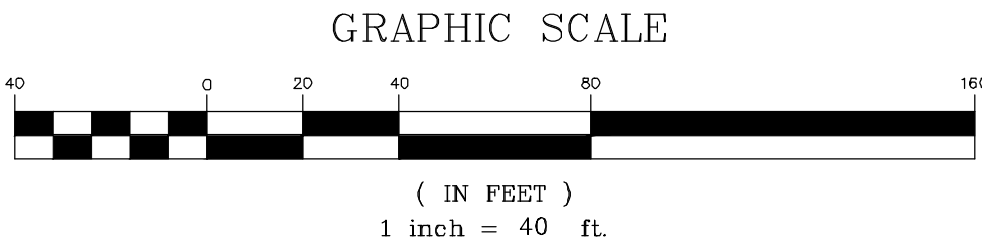


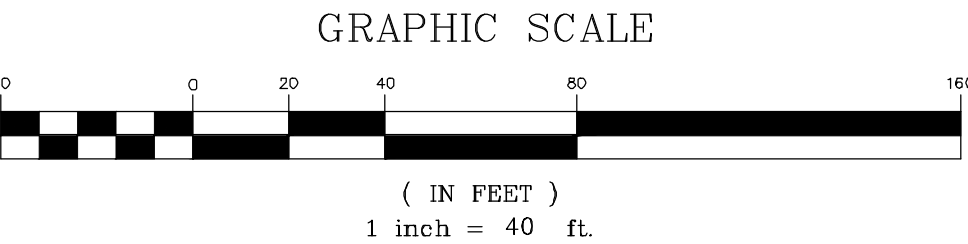
LOCATION MAP
1" = 2000'

DATE	CHECKED	REVISION

**ROAD WIDENING
PLAN (WEST)**

DATE 10/20/2023	DRAWING NUMBER C2.5
SCALE 1" = 40'	
PROJ. NO. 23175	





SITE ENGINEER:



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DRAWN

MAB

CHECKED

DSM

APPROVED

DSM

CLIENT:

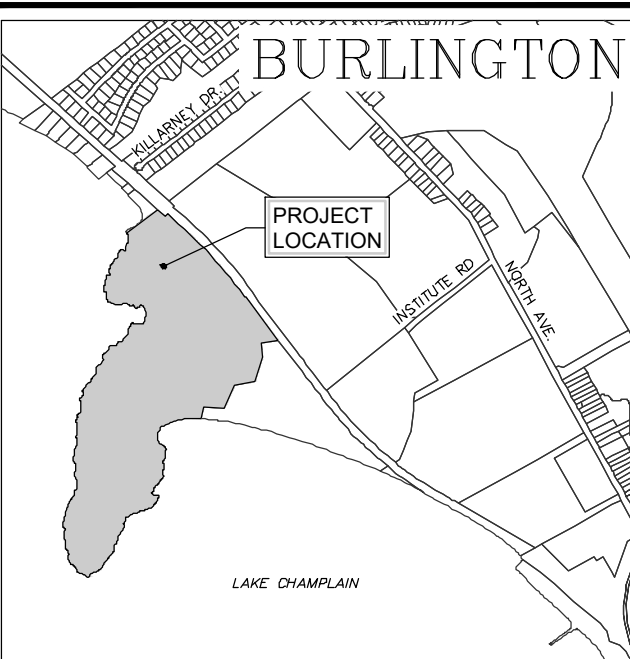
**ROCK POINT
COMMONS**

20 ROCK POINT ROAD
BURLINGTON, VERMONT

PROJECT:

**ROCK POINT
CONFERENCE
CENTER**

ROCK POINT ROAD
BURLINGTON, VERMONT



LOCATION MAP

1" = 2000'

DATE	CHECKED	REVISION

**ROAD WIDENING
PLAN (EAST)**

DATE

10/20/2023

SCALE

1" = 40'

PROJ. NO.

23175

DRAWING NUMBER

C2.6

-----100-----	EXISTING CONTOUR
-----X-----	EXISTING FENCE
-----	EXISTING GRAVEL
-----	EXISTING PAVEMENT
-----UE-----	EXISTING UNDERGROUND ELECTRIC
-----OE-----	EXISTING OVERHEAD ELECTRIC
-----COM-----	EXISTING COMMUNICATIONS
-----FM-----	EXISTING FORCEMAIN
-----G-----	EXISTING GAS
-----ST-----	EXISTING STORM
-----S-----	EXISTING GRAVITY SEWER
-----W-----	EXISTING WATER
-----	WETLANDS
-----	WETLANDS BUFFER
	EXISTING STORM MANHOLE
	EXISTING CATCH BASIN
	EXISTING YARD DRAIN
	EXISTING HYDRANT
	EXISTING SHUT OFF
	EXISTING UTILITY POLE
	EXISTING LIGHT WIRE
	EXISTING GUY WIRE/POLE
	EXISTING SIGN
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	EDGE OF BRUSH/WOODS

1. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CONFLICTS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL CONTACT DIG SAFE (888-344-7233) PRIOR TO ANY CONSTRUCTION.
2. PROPERTY LINE INFORMATION IS APPROXIMATE AND BASED ON EXISTING TAX MAP INFORMATION. THIS PLAN IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS ONE.
3. SITE INFORMATION IS BASED ON A FIELD SURVEY PERFORMED BY CIVIL ENGINEERING ASSOCIATES, INC OCTOBER 2023. CIVIL ENGINEERING ASSOCIATES, INC. SURVEY ORIENTATION IS "GRID NORTH". VERMONT COORDINATE SYSTEM OF 1983 (HORIZONTAL) AND NAVD88 (VERTICAL) ESTABLISHED FROM GPS OBSERVATIONS ON SITE.
4. UTILITY INFORMATION IS BASE ON A SITE PLAN INTENDED "EPISCOPAL DIOCESE OF VERMONT 5 ROCK POINT ROAD BURLINGTON, VERMONT" DATED 07/26/05, PREPARED BY TRUDELL CONSULTING ENGINEERS (TCE) WW PERMIT NO. WW-4-2558.
5. CONTAIN INFORMATION OUTSIDE SITE IMPROVEMENTS IS BASED UPON LIDAR DATA FROM VERMONT CENTER FOR GEOGRAPHIC INFORMATION STATE WIDE 1" CONTOURS. HORIZONTAL AND VERTICAL DATUM BASED ON VCS NAD 83 AND NAVD 88. ALL OTHER SITE INFORMATION IS BASED UPON ORTHOMETRIC PHOTOGRAPHY.



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CHECKED

DSM

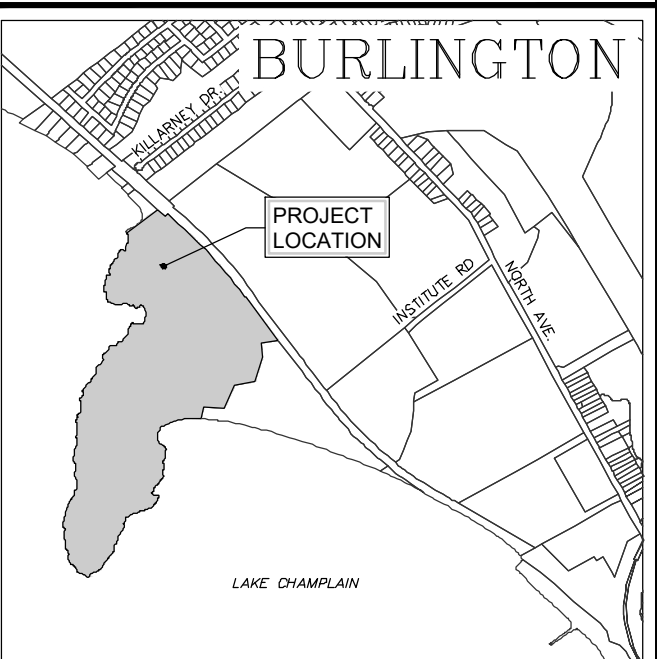
APPROVED

CLIENT:

20 ROCK POINT ROAD
BURLINGTON, VERMONT

ROCK POINT
CONFERENCE
CENTER

ROCK POINT ROAD
BURLINGTON, VERMONT



LOCATION MAP

 $\bar{y} = 2000^a$ [illegible]

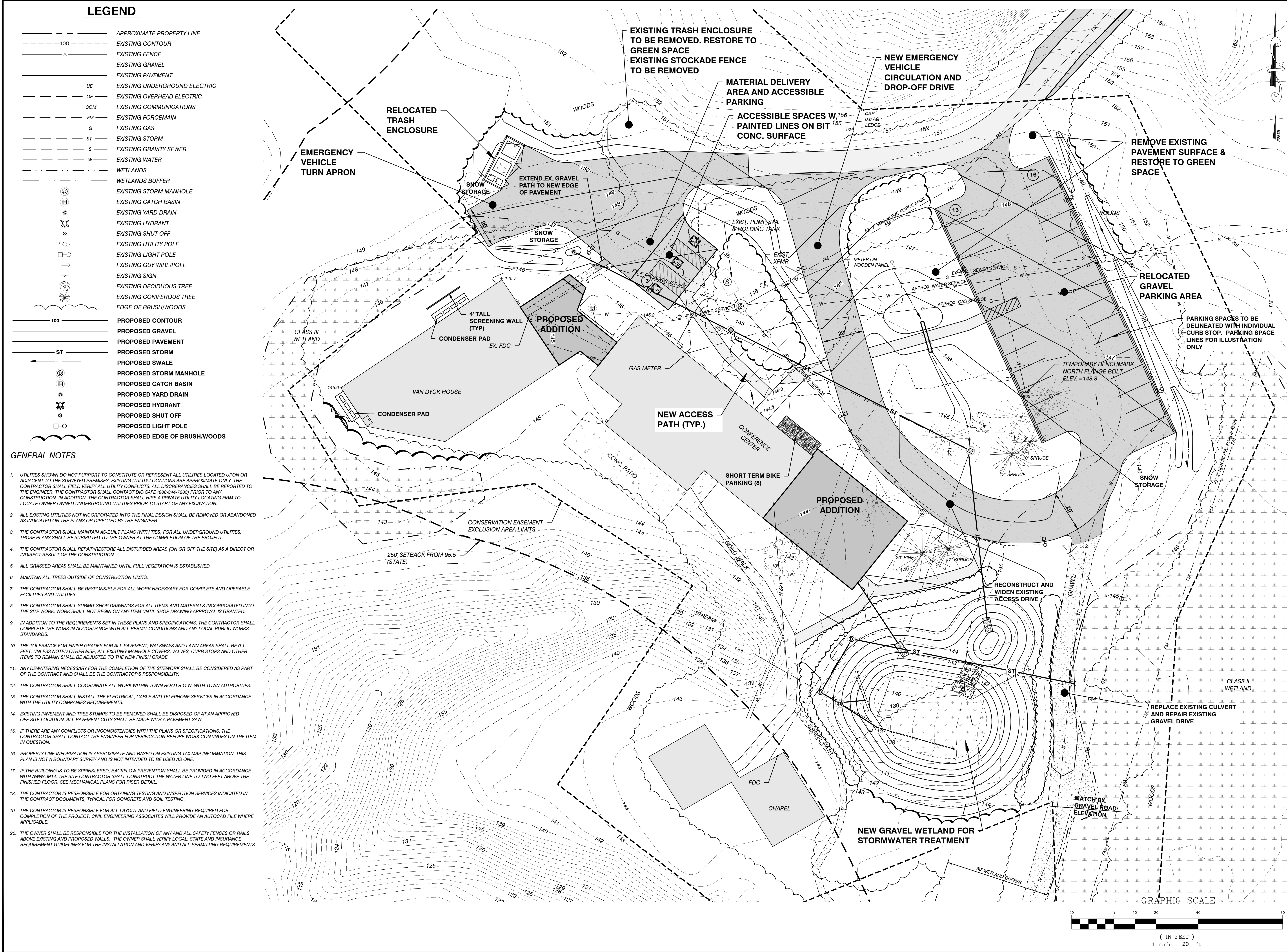
DATE
10/20/2023

SCALE
 $1'' = 20'$

PROJ. NO.
23175

DRAWING NUMBER

C1.1



SITE ENGINEER:

CIVIL ENGINEERING ASSOCIATES, INC.
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DSM

APPROVED
DSM

CLIENT:

ROCK POINT COMMONS
20 ROCK POINT ROAD
BURLINGTON, VERMONT

PROJECT:

ROCK POINT CONFERENCE CENTER
ROCK POINT ROAD
BURLINGTON, VERMONT

LOCATION MAP

1" = 2000'

DATE	CHECKED	REVISION

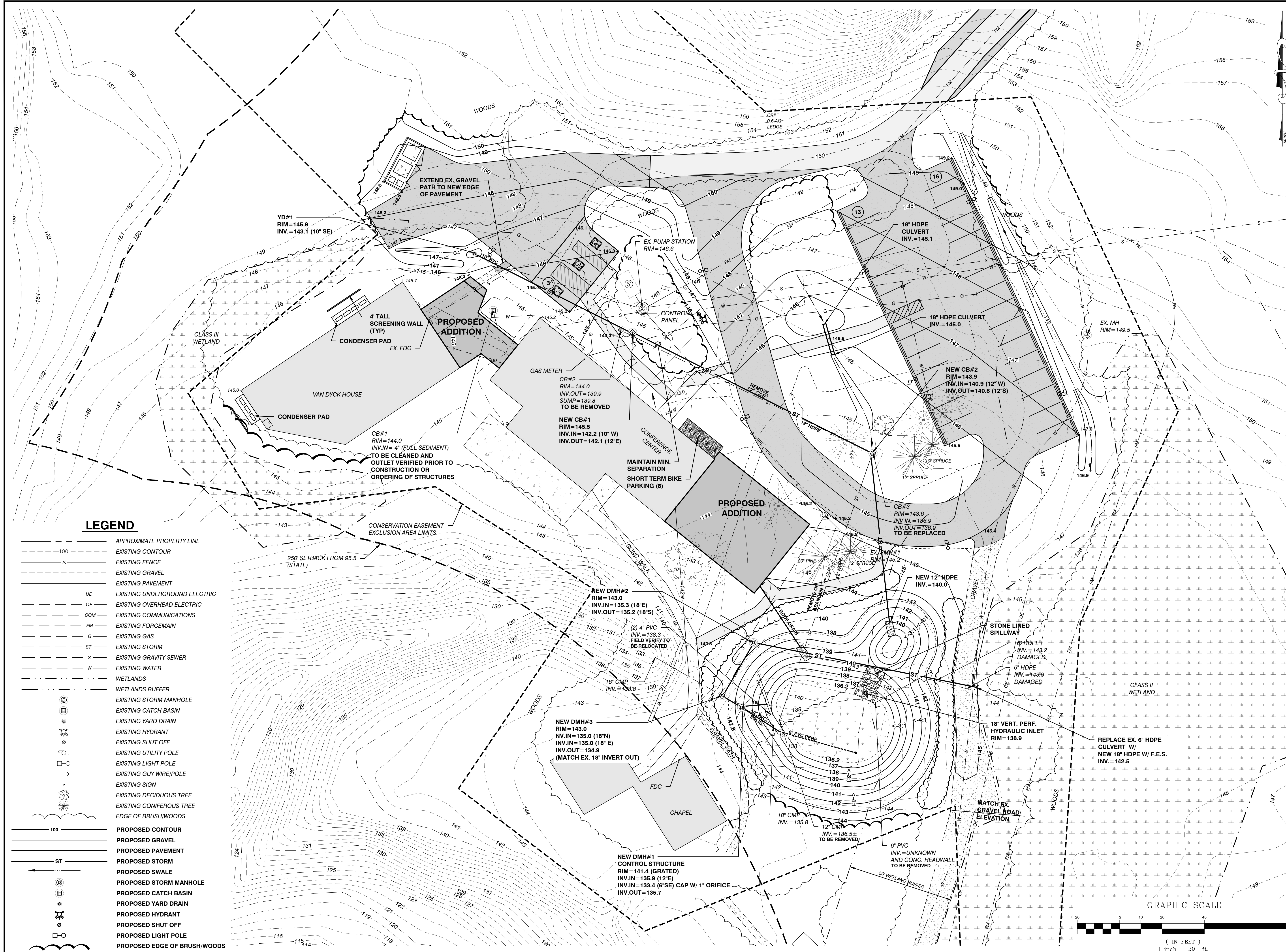
SITE IMPROVEMENT PLAN

DATE
10/20/2023

SCALE
1" = 20'

PROJ. NO.
23175

DRAWING NUMBER
C2.0



SITE ENGINEER:



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DSM

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DSM

CLIENT:

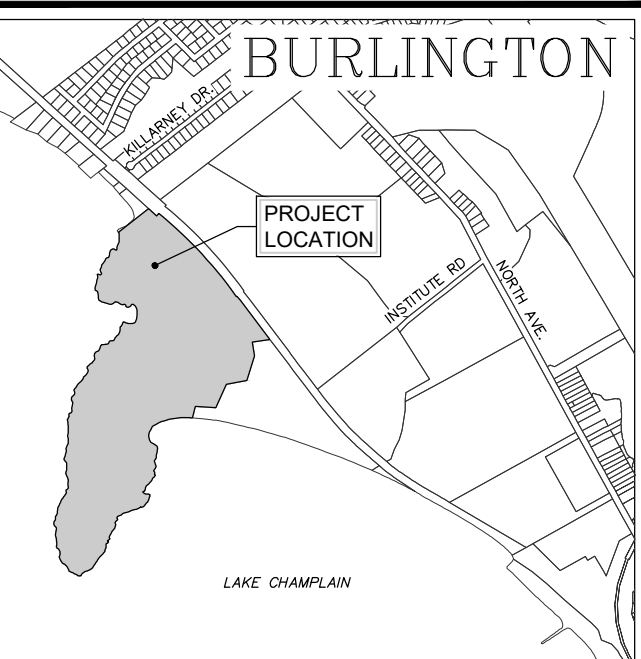
ROCK POINT
COMMONS

20 ROCK POINT ROAD
BURLINGTON, VERMONT

PROJECT:

ROCK POINT
CONFERENCE
CENTER

ROCK POINT ROAD
BURLINGTON, VERMONT



LOCATION MAP

1" = 2000'

DATE	CHECKED	REVISION

GRADING &
DRAINAGE PLAN

DATE
10/20/2023

SCALE
1" = 20'

PROJ. NO.
23175

DRAWING NUMBER
C2.1

Department of Permitting & Inspections

Zoning Division
645 Pine Street
Burlington, VT 05401
Telephone: (802) 865-7188

William Ward, Director
Scott Gustin, AICP, CFM, Principal Planner
Mary O'Neil, AICP, Principal Planner
Garret King, Associate Planner
Joseph Cava, Permit Technician
Ted Miles, Code Compliance Officer
Ted Boylan, DPI Administrator



TO: Development Review Board
FROM: Scott Gustin
DATE: December 5, 2023
RE: ZP-23-494; 20 Rock Point Road

=====

Note: These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.

Zone: RCO-C Ward: 4N

Owner/Applicant: Episcopal Diocese of Vermont / Dave Marshall

Request: Proposed construction of building additions and reconfiguration of existing parking area.

Applicable Regulations:

Article 3 (Applications, Permits, and Project Reviews), Article 4 (Maps & Districts), Article 5 (Citywide General Regulations), Article 6 (Development Criteria & Guidelines), Article 8 (Parking)

Background Information:

The applicant is seeking approval to construct two building additions – one to connect the Van Dyck House with the Conference Center and the other to expand the size of the Conference Center. New building area totals 3,770 sf. Approval is also sought for parking and circulation reconfiguration and related access drive modifications. The project will convert existing overnight stay capacity at the facility into additional day school space.

The Episcopal Diocese of Vermont is a religious and educational institution and, therefore, is subject to only limited zoning review per 24 VSA, Sec. 4413, Limitations on municipal bylaws. This application may be reviewed only with respect to location, size, height, building bulk, yards, courts, setbacks, density of buildings, off-street parking, loading facilities, traffic, noise, lighting, landscaping, and screening requirements.

The Conservation Board reviewed this application at their November 6, 2023 meeting and recommended approval of the project as proposed.

Previous zoning actions for this property are as follows:

- 4/26/22, Approval for removal and replacement of garden shed
- 4/14/20, Approval of trail work and related parking area
- 3/31/20, Approval of bike path access trail
- 8/15/19, Approval for trail improvements
- 3/26/19, Approval for trail improvements

- 10/2/18, Approval to relocate entry piers and construct turn-around
- 4/3/18, Approval to construct home and storage building
- 8/11/17, Approval for trail improvements at Eagle Bay
- 2/12/16, Approval to construct pavilion in association with gardening program
- 8/8/14, Approval to erect a hoop house
- 10/22/12, Approval to demolish single family home
- 6/27/11, Approval to install egress windows
- 2/6/09, Approval to construct sugar house
- 10/3/06, Approval for A-frame awning
- 7/25/06, Approval to install HC access ramp
- 7/17/02, Approval to install standing seam pitched roof
- 4/13/02, Approval to install shed
- 6/15/00, Approval to replace hood/ventilation system
- 6/6/97, Approval to construct a deck and stairway
- 12/21/93, Approval to construct HC access ramp
- 6/2/92, Approval to construct sunroom
- 4/10/90, Approval to install fencing
- 3/24/88, Approval to construct an open-bay garage
- 7/18/86, Approval to construct a shed
- 4/5/81, Approval to construct an open air building
- 10/11/79, Approval to construct a conference center
- 7/27/79, Approval to construct above-ground pool
- 7/20/79, Approval to construct chimney
- 4/9/76, Approval to construct two small cottages

Recommendation: **Certificate of appropriateness approval** as per, and subject to, the following findings and conditions:

I. Findings

Article 3: Applications, Permits, and Project Reviews

Part 3: Impact Fees

Sec. 3.3.2, Applicability

The new construction triggers applicability of impact fees. Impact fees must be paid on the net new square footage of the building area. **(Affirmative finding as conditioned)**

Article 4: Maps & Districts

Sec. 4.4.6, Recreation, Conservation, and Open Space Districts:

(a) Purpose

(3) RCO-Conservation (RCO-C)

The subject property is located in the RCO-C zone. This zone is intended primarily for conservation of the city's significant natural communities in their natural state. Indeed, much of the property is identified as a significant natural area in the Open Space Protection Plan; however, the proposed construction will not be located within a significant natural area. **(Affirmative finding)**

(b) Dimensional Standards & Density

Lot coverage will increase minimally to 4.31%. It will remain below the 5% limit.

The subject parcel does not front on any public street. The bike path parallels the easterly boundary, and the private Rock Point Road comes in from that same direction. For the purposes of setbacks, the easterly property line is the front yard. The minimum front yard setback is 15.' The proposed work is well beyond this distance and complies with this setback. The parcel is about 1,900' wide where the work will occur. The 10% minimum side yard setback is, therefore, about 190.' The northerly side yard setback does not change, as the nearest building addition is constructed between two existing buildings. The easterly side yard setback of the conference center addition is more than 1,000.' The property is ~ 900' deep where the construction is proposed. The minimum required 25% rear yard setback is 225.' As proposed, the construction is set back more than 300' from the rear property line.

The proposed conference center addition is ~ 18' tall, and the connector addition is about 19' tall as measured to the midpoint of the roof rise. This height is below the 25' height limit.

(Affirmative finding)

(c) Permitted & Conditional Uses

The property is an educational and religious institution and may be regulated under local zoning only as outlined in 24 VSA, Sec. 4413, *Limitations on municipal bylaws*. **(Affirmative finding)**

(d) District Specific Regulations

Not applicable.

Article 5: Citywide General Regulations

Sec. 5.2.3, Lot Coverage Requirements

See Sec. 4.4.6 (b) above.

Sec. 5.2.4, Buildable Area Calculation

(Not applicable)

Sec. 5.2.5, Setbacks

See Sec. 4.4.6 (b) above.

Sec. 5.2.6, Building Height Limits

See Sec. 4.4.6 (b) above.

Sec. 5.2.7, Density and Intensity of Development Calculations

See Sec. 4.4.6 (b) above.

Sec. 5.5.1, Nuisance Regulations

Nothing in the proposal appears to result in creating a nuisance under this criterion. **(Affirmative finding)**

Sec. 5.5.2, Outdoor Lighting

New outdoor lighting is proposed and will illuminate the parking and circulation areas and building entries. A photometric plan and fixture cut sheets have been provided. The photometric plan depicts parking and circulation lighting information but does not appear to capture new

building entry illumination. The building elevation drawings do not include fixture locations. The photometric plan and elevation drawings need to be revised to include building entry lighting levels and locations. All of the proposed fixtures are cutoff, utilize LED lamps, and are acceptable. **(Affirmative finding as conditioned)**

Article 6: Development Review Standards

Part 1, Land Division Design Standards

Not applicable.

Part 2, Site Plan Design Standards

Sec. 6.2.2, Review Standards

(a) Protection of important natural features

As noted above, much of the property contains mapped significant natural areas and associated buffer zones. The proposed construction will be set outside of any mapped significant natural area or buffer zone. All of the construction is located within existing developed areas. **(Affirmative finding)**

(b) Topographical alterations

Not applicable per 24 VSA, Sec. 4413.

(c) Protection of important public views

Not applicable per 24 VSA, Sec. 4413.

(d) Protection of important cultural resources

Not applicable per 24 VSA, Sec. 4413.

(e) Supporting the use of alternative energy

Not applicable per 24 VSA, Sec. 4413.

(f) Brownfield sites

Not applicable per 24 VSA, Sec. 4413.

(g) Provide for nature's events

As required, plans for erosion prevention and sediment control and for post construction stormwater management have been provided to the city's stormwater program staff. These plans have been reviewed and approved by the Conservation Board. Review by city stormwater program staff is pending.

New building entries will be sheltered, and ample space remains for wintertime snow storage. **(Affirmative finding as conditioned)**

(h) Building location and orientation

Not applicable per 24 VSA, Sec. 4413.

(i) Vehicular access

Not applicable per 24 VSA, Sec. 4413.

(j) Pedestrian access

Not applicable per 24 VSA, Sec. 4413.

(k) Accessibility for the handicapped

Not applicable per 24 VSA, Sec. 4413. Applicable accessibility requirements under the City's building code continue to apply. **(Affirmative finding as conditioned)**

(l) Parking and circulation

Existing parking and circulation will be reconfigured. The parking is not visible from any other property or any public right-of-way. The new parking area will continue to be surfaced with gravel, but individual spaces will be delineated with curb stops. These curb stops will also serve to prevent parking creep into adjacent green space. Dedicated pedestrian paths will connect the primary and handicap parking areas to the buildings. Further away, modifications to the private access drive are proposed in order to improve two-way circulation, particularly for emergency vehicle access.

The reconstructed parking is extensive enough to require installation of shade trees. At least 1 shade tree of 2.5" – 3" caliper at planting for every 5 parking spaces is required. The objective is to provide at least 30% of the parking areas. Shade provided by existing trees may be included in this calculation. The project plans do not depict any new shade trees or shading from existing trees. **(No finding yet possible)**

(m) Landscaping, fences, and retaining walls

No new landscaping is proposed. The property is largely wooded and will remain so. New shade trees are likely required to meet the 30% shading requirement for the reconstructed parking as noted above.

No new fences or retaining walls are evident in the project plans. **(No finding yet possible)**

(n) Public plazas and open space

No public plaza or open space is included or required in this proposal. **(Not applicable)**

(o) Outdoor lighting

See Sec. 5.5.2.

(p) Integrate infrastructure into the design

The existing trash enclosure will be relocated to the westerly side of the new emergency vehicle turn-around apron and handicap parking spaces. Set to the side of the buildings and screened, this relocation is acceptable. The former location will be converted to green space. **(Affirmative finding)**

Part 3, Architectural Design Standards

Sec. 6.3.2, Review Standards

(a) Relate development to its environment

1. Massing, Height, and Scale

The proposed additions are modest in scale. The massing of the existing buildings remains intact with the proposed additions reading as distinct components of the overall structure.

Overall height is unchanged, as the additions are lower than the existing buildings. While

overall scale increases as a result of the new construction, the effective massing of the individual building components minimizes apparent building bulk. **(Affirmative finding)**

2. Roofs and Rooflines

Not applicable per 24 VSA, Sec. 4413.

3. Building Openings

Not applicable per 24 VSA, Sec. 4413.

(b) Protection of important architectural resources

Not applicable per 24 VSA, Sec. 4413.

(c) Protection of important public views

Not applicable per 24 VSA, Sec. 4413.

(d) Provide an active and inviting street edge

Not applicable per 24 VSA, Sec. 4413.

(e) Quality of materials

Not applicable per 24 VSA, Sec. 4413.

(f) Reduce energy utilization

Not applicable per 24 VSA, Sec. 4413.

(g) Make advertising features complimentary to the site

No advertising is included in this proposal. **(Not applicable)**

(h) Integrate infrastructure into the building design

No new building- or roof-mounted equipment is included in this proposal. **(Affirmative finding)**

(i) Make spaces safe and secure

The proposed building must comply with the city's current egress requirements. Building entries will be illuminated. **(Affirmative finding as conditioned)**

Article 8: Parking

Sec. 8.1.9, Maximum On-Site Parking Spaces

The subject property is located within the Neighborhood Parking District. Of the two additions, only the classroom space being added to the conference center has parking implications. Parking is tied to the number of classrooms, and that information has not been provided. The maximum number of parking spaces per classroom is 9. Existing parking totals ~ 14 spaces (though not delineated). Proposed parking totals 29 spaces (plus 3 handicap spaces which are exempt from parking maximums). The net increase of 15 spaces would be acceptable for 2 classrooms. An accounting of the entire building space as to available parking is needed, particularly if just one additional classroom is proposed. Additional information is needed to confirm compliance with this criterion. **(No finding possible)**

Sec. 8.1.10, Off-Street Loading Requirements

No dedicated loading bay is evident in the project plans, nor is one seemingly needed. Delivery vehicles may utilize the onsite circulation areas for access to the buildings as needed. The access drive appears to be sufficiently wide to allow continued passage of vehicles even with a parked delivery vehicle in place. **(Affirmative finding)**

Sec. 8.1.11, Parking Dimensional Requirements

The proposed parking spaces and circulation aisles are compliant with the standards of Table 8.1.11-1. They are 18' deep by 9' wide and have 24' aisle width for 2-way circulation. **(Affirmative finding)**

Sec. 8.1.12, Limitations, Location, Use of Facilities

(a) Shared Parking for Off-Site Use

None of the parking will be provided for off-site users. The parking will serve onsite employees, students, and visitors. **(Affirmative finding)**

(b) Front Yard Parking Restricted & Residential Driveways
(Not applicable)

(c) Availability of Facilities

As noted above, parking will be provided for onsite users. The parking areas will not be used for storage or display of vehicles or materials. **(Affirmative finding)**

Sec. 8.1.13, Parking for Disabled Persons

The site plans depict three handicap parking spaces in close proximity to pathways and building entries. ADA compliance is administered via the city's building permit process. **(Affirmative finding)**

Sec. 8.1.14, Stacked and Tandem Parking Restrictions
(Not applicable)

Sec. 8.1.15, Reserved

Sec. 8.1.16, Transportation Demand Management

(b) Applicability

As the project results in less than 15,000 net new square feet, it is not subject to the standards of this section. **(Not applicable)**

Sec. 8.2.5, Bicycle Parking Requirements

The site plans depict the bike rack location for short term bike parking to be located in front of the existing conference center. At least 16 short term bike parking spaces are evident on the site plans. Interior, long term bike parking is not evident.

Shore term bike parking standards for school grades 6-12 are 4 per classroom. While net new classroom count is not yet noted, the 16 short terms spaces are clearly adequate. Long term bike parking standards for school grades 6-12 are 1 space per 20,000 sf, plus 1 per 10 students. Area will increase by 3,770 sf and student count will increase by 15. At least 2 long term spaces are required. No long term bike parking information is evident and must be provided. **(No finding possible)**

II. Conditions of Approval

Several items require additional information to determine compliance as noted above. In the event that the DRB determines approval is warranted, the following conditions are recommended:

1. **Prior to release of the zoning permit**, the following shall be addressed, subject to staff review and approval:
 - a. Revised photometric plan and elevation drawings depicting building entry lighting levels and locations;
 - b. Revised site plan depicting required parking lot shade trees and shading of at least 30% and associated landscaping plan
 - c. Parking calculations to determine compliance with parking maximums ; and,
 - d. Long term bike parking details.
2. **Prior to release of the zoning permit**, the erosion prevention and sediment control plan and the post-construction stormwater management plan shall be reviewed and approved by city stormwater program staff.
3. At least **7 days prior to the issuance of a certificate of occupancy**, the applicant shall pay to the Department of Permitting & Inspections the impact fee as calculated by staff based on the new square footage of the proposed development.
4. The Applicant/Property Owner is responsible for obtaining all necessary Zoning Permits and Building Permits through the Department of Public Works as well as other permit(s) as may be required, and shall meet all energy efficiency codes of the city and state.
5. Standard permit conditions 1-15.