01/22/21

Dear Mr. Scott Gustin,
Permitting and Inspections
City of Burlington

Re: Spot on the Dock – Burlington, VT
COA Level II Application

Spot on the Dock is pleased to submit an application for renovations to the existing waterfront restaurant in addition to a new construction of a bathroom building to the east of the existing building. The renovations to the existing building include demolishing the existing bathrooms to create additional outdoor bar space. The new bar area is placed below the existing roof therefore within the existing footprint of the building. In addition to the expanded outdoor bar, minimal interior partitions are proposed to create an office and lockable storage.

With the removal of existing bathrooms, a new approx. 545 sf bathroom building is proposed. Any new construction in this flood zone requires the finish floor level to be at an elevation of 104'-0" min. above sea level therefore stairs and an access ramp are proposed to make up the difference from existing grade at approx. 100'-6" to new finished floor elevation. The change in elevation puts the new building roofline above the existing low profile building creating an architectural opportunity to reinforce the height and improve visibility of the restaurant from King Street.

The proposed changes to the property are intended to aid in improved access and clarity to how the restaurant currently functions. Restaurant visitors are directed to enter the restaurant from the southwest due to the extensive outdoor dining/bar area located on the west. The eastern entrance is intended for staff and deliveries therefore the new building will help screen the east entrance doors, discouraging this as a public entry point.

There are no proposed changes to parking. Site improvements include a new asphalt walk to the bathroom building with minimal grading changes and utility changes to support the proposed construction.

The proposed construction cost for the renovations to the existing building (not including new bathroom building) is $50,000 and the current assessed value of the existing restaurant building is $250,000. There is no record of cost for previous work done to the building but the Property Owner is confident the cumulative value of renovations to the building is below the 50% threshold therefore not requiring flood mitigation improvements to the existing building. A majority of the improvements have been made to the exterior dining/bar space and not to the building itself.

525 Hercules Drive I Suite Two I Colchester, VT 05446 I Phone: 802.655.5020 I Fax: 802.655.6567 I wiemannlamphere.com

We look forward to moving this project forward to enhance a popular outdoor dining space on Burlington's water front. Please let us know if there are any comments/questions through the review of the application.

Sincerely,

Kelley DesRoches
Project Manager/Designer
Wiemann Lamphere Architects

Department of Permitting and Inspections

645 Pine Street
Burlington, VT 05401-8415
Phone: (802) 865-7188
www.burlingtonvt.gov/dpi

Zoning Permit Application

Use this form for ALL zoning permit applications. See the relevant checklist for specific requirements.

PROJECT LOCATION ADDRESS: 1 King St. Burlington, VT 05401

PROPERTY OWNER*: Lake Champlain Transportation Co. *If condominium unit, written approval from the Association is also required	**APPLICANT:** Spot on the Dock
POSTAL ADDRESS: 1 King St	POSTAL ADDRESS: 210 Shelburne Rd
CITY, ST, ZIP: Burlington, VT 05401	CITY, ST, ZIP: Burlington, VT 05401
DAY PHONE: 802-864-9804	DAY PHONE: 802-355-8553
EMAIL: DaleA@ferries.com	EMAIL: shannon@thespotvt.com
SIGNATURE:	**SIGNATURE:**

Text

Property owner signature authorizes the applicant (if noted) to act on owner's behalf for all matters pertaining to this zoning permit application. Signature also consents to the proposed work and to inspection by city zoning staff to close out the zoning permit upon project completion.

Description of Proposed Project: Renovation to existing building to demo bathrooms to increase outdoor bar within existing footprint and add interior partitions to create a new office and storage room. Construct new bathroom building with stairs & access ramp.

Existing Use of Property: ☐ Single Family ☐ Multi Family: #___ Units ☑ Other: Restaurant

Proposed Use of Property: ☐ Single Family ☐ Multi Family: #___ Units ☑ Other: No change

- **Does your project involve new construction, addition, alteration, renovation, or repair to a structure that is heated or cooled?** Yes ☐ No ☑
  (If yes, the Vermont Residential/Commercial Building Energy Standards (VRBES/VCBES) apply. Please visit the following links for more information: http://publicservice.vermont.gov/energy_efficiency/rbes or http://publicservice.vermont.gov/energy_efficiency/cbes)
- **Will 400 sq ft or more of land be disturbed, exposed and/or developed?** Yes ☑ No ☐
  (If yes, you will need to submit the 'Erosion Prevention and Sediment Control Plan' questionnaire, with a site plan)
- **For Single Family & Duplex, will total impervious area be 2500 sq ft or more?** Yes ☐ No ☐
  (If yes, you will need to submit the 'Stormwater Management Plan' questionnaire, with a site plan)
- **Are you proposing any work within, below, or above the public right of way?** Yes ☐ No ☑
  (If yes, you will need to receive prior approval from the Department of Public Works)
- **Are you proposing any onsite food or beverage production/manufacturing?** Yes ☑ No ☐
  (If yes, you will need to consult with Water Resources Division at the Department of Public Works: 863-4501)

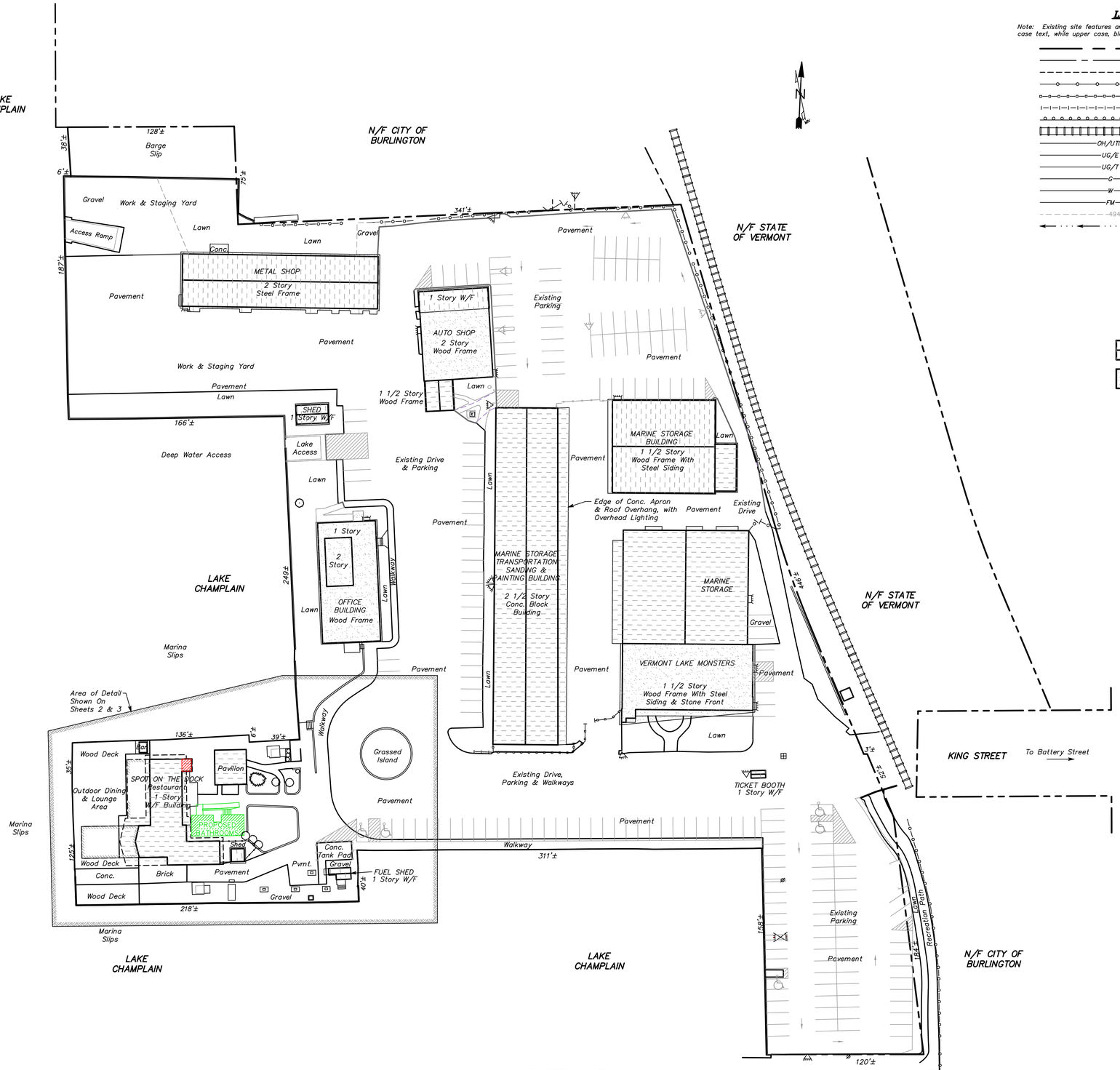
Estimated Construction Cost (value)*: $ 250,000
(*Estimated cost a typical contractor would charge for all materials and labor, regardless of who physically completes the work)

Within 30 days of submission, the permit application will be reviewed for completeness, and, if complete, will be processed administratively or referred to a board for review. All permit approvals or denials are subject to an appeal period (15 days for administrative permit; 30 days for board permit). A building (and/or electrical, mechanical, plumbing, curb cut) permit will also be required. Contact the Department of Public Works at 802-863-9094 to inquire. Please ask for assistance if you have any questions about filling out this form. Call the Zoning Division at 802-865-7188, or visit the office at 645 Pine Street.

Office Use Only: Zone: _____ Eligible for Design Review? _____ Age of House _____ Lot Size _____

Type: SN___ AW___ FC___ BA___ COA 1___ COA 2___ COA 3___ CU___ MA___ VR___ HO___ SP___ DT___ MP___

Check No. _____ Amount Paid _____ Zoning Permit # _____



NOTE: THE EASTERLY AND SOUTHERLY PERIMETER OF THIS PARKING LOT IS NOW DELINEATED BY BOULDERS.

GRAPHIC SCALE

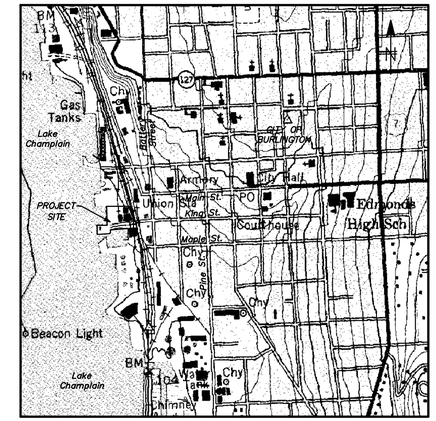
(IN FEET)

40 20 0 40 80 120 160

LEGEND

Note: Existing site features are generally labelled on the plans with italicized, lower case text, while upper case, block-style text generally denotes proposed features.

- PROPERTY LINE
- EASEMENT
- EXISTING EDGE OF GRAVEL
- FENCE
- EXISTING WOOD STOCKADE FENCE
- EXISTING WOOD PICKET FENCE
- EXISTING WOOD PLANK GUARDRAIL
- EXISTING RAILROAD TRACKS
- OH/UTIL — UTILITY LINE (AERIAL)
- UG/E — ELECTRICAL SERVICE (BURIED)
- UG/T — TELEPHONE/COMMS SERVICE (BURIED)
- G — NATURAL GAS SERVICE (BURIED)
- W — WATER SERVICE
- FM — SANITARY FORCE MAIN
- 494 — CONTOUR (PROPOSED)
- DITCH OR SWALE
- CONCRETE MONUMENT
- CALCULATED SURVEY POINT
- UTILITY POLE
- LIGHT POLE
- BUILDING-MOUNTED LIGHT
- ELECTRICAL TERMINAL CABINET
- EXISTING ELECTRICAL OUTLET/FIXTURE
- STORM CATCH BASIN
- 503.8 — SPOT ELEVATION
- EXISTING ROOF LINE (DASHED LINES SHOW ALIGNMENT OF DRAINAGE)
- EXISTING FLAT ROOF



LOCATION MAP

N.T.S.

LOT COVERAGES

EXISTING

Buildings	=	58,976 sf
Pavement/Concrete/Wood Surfaces	=	155,699 sf
Gravel Surfaces	=	16,929 sf
Total Lot Coverage	=	231,604 sf (90.0%)
Green Area	=	25,718 sf (10.0%)
TOTAL AREA	=	257,322 sf (100.0%)

PROPOSED

Buildings	=	59,837 sf
Pavement/Concrete/Wood Surfaces	=	155,658 sf
Gravel Surfaces	=	16,109 sf
Total Lot Coverage	=	231,604 sf (90.0%)
Green Area	=	25,718 sf (10.0%)
TOTAL AREA	=	257,322 sf (100.0%)

NOTES

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6. BUERMANN ENGINEERING, LLC HAS NOT PERFORMED ANY ENVIRONMENTAL SITE ASSESSMENTS ON THE SUBJECT PROPERTY, AND MAKES NO CLAIMS ABOUT THE POSSIBLE PRESENCE OR ABSENCE OF HAZARDOUS MATERIALS ONSITE.
7. THE PURPOSE OF THESE PLANS IS TO DEPICT EXISTING CONDITIONS AND PROPOSED SITE MODIFICATIONS FOR A PROPOSED BATHROOM PAVILION & RESTAURANT MODIFICATIONS, IN SUPPORT OF LOCAL AND STATE PERMITTING.
8. BOUNDARY INFORMATION SHOWN IS APPROXIMATE, BASED UPON INFORMATION FROM THE OWNER, FIELD EVIDENCE FOUND, AND A "BASE PLAN – EXISTING CONDITIONS", DATED OCTOBER 18, 2002 BY LAND LINES SURVEYING AND MAPPING, MICHAEL R. MAGOON, L.S. BUERMANN ENGINEERING, LLC HAS SINCE PERIODICALLY UPDATED SITE TOPOGRAPHY TO REFLECT CURRENT CONDITIONS. THE PROPERTY LINES, EASEMENTS, AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED ON THIS PLANS ARE FOR THE USE OF THE PERMITTING AUTHORITIES ONLY. THEY DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 26 V.S.A. SECTION 2502(4), AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT.

OWNER OF RECORD

LAKE CHAMPLAIN TRANSPORTATION COMPANY
KING STREET DOCK, BURLINGTON, VERMONT 05401
DEEDS RECORDED AT BURLINGTON LAND RECORDS,
VOL. 129, PG. 394-395, DATED FEB. 2, 1948
VOL. 142, PG. 460-461, DATED FEB. 1, 1952
VOL. 235, PG. 435-444, DATED APRIL 8, 1976
TAX MAP PARCEL #049-1-078-000
SPAN 114-035-16983

PROPERTY OVERVIEW – EXISTING CONDITIONS

SPOT ON THE DOCK

KING STREET DOCK
BURLINGTON, VERMONT

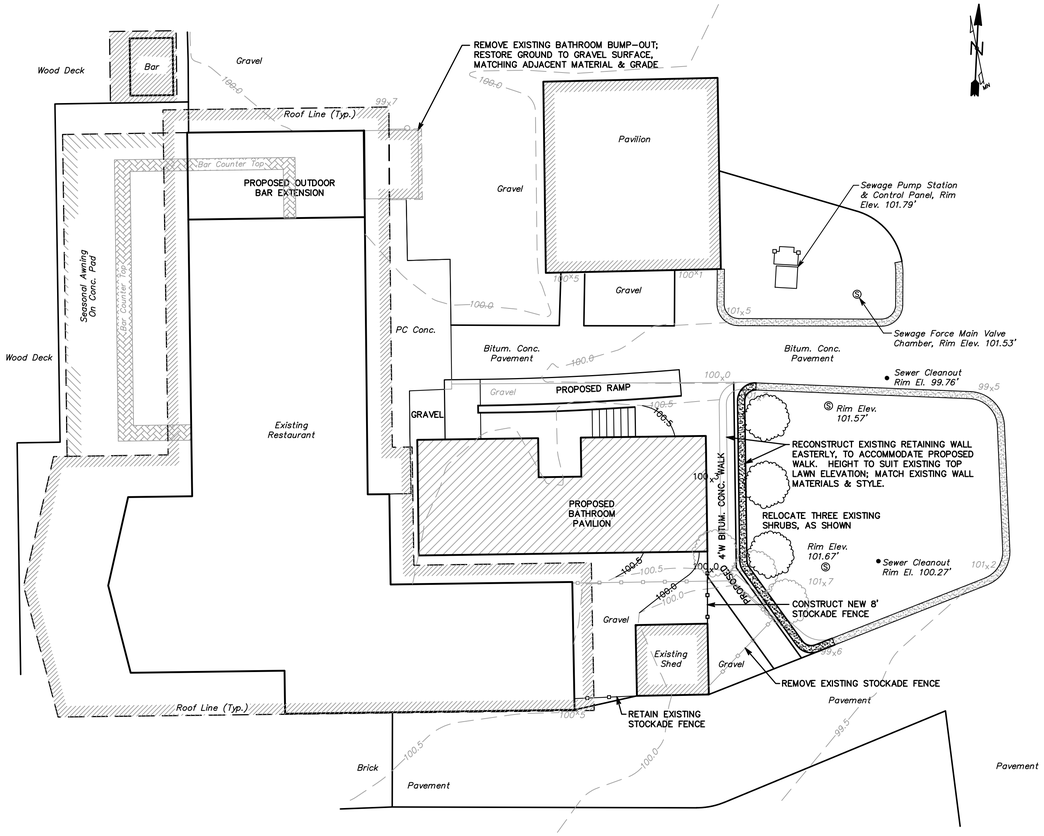
©

Date	1/20/2021
Project Number	965
Plan Scale	1" = 40'
Sheet	1 of 3

BUERMANN ENGINEERING, LLC
7 Sanderson Road, Milton, Vermont 05468
Tel.: (802) 893-1308 www.belvt.com

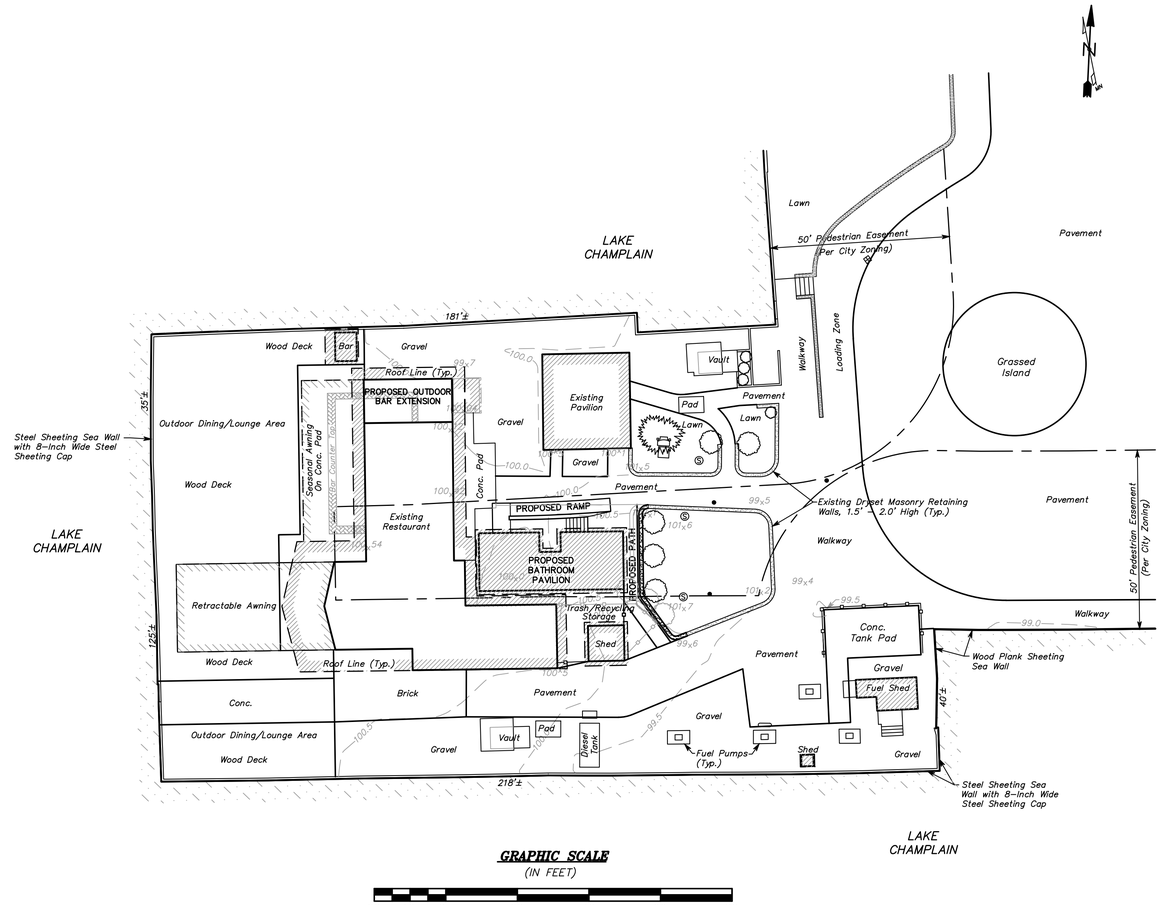
STATE OF VERMONT JOHN M. BUERMANN NO. 7375 PROFESSIONAL ENGINEER

S41R00



GRAPHIC SCALE
(IN FEET)
10 5 0 10 20 30 40

BUILDING VICINITY SITE PLAN
1" = 10'



GRAPHIC SCALE
(IN FEET)
20 10 0 20 40 60 80

AREA SITE PLAN
1" = 20'

GENERAL EROSION CONTROL PROCEDURES

1. ALL EARTH EXPOSED DURING CONSTRUCTION SHALL BE STABILIZED WITHIN SEVEN DAYS OF THE DISTURBANCE, EITHER WITH TEMPORARY OR PERMANENT SEEDING MEASURES.

2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WTH THE REQUIREMENTS HEREIN AND WTH THE "VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL".

3. LIMITS OF DISTURBANCE SHALL BE RESTRICTED TO NO MORE THAN TEN FEET FROM THE EDGES OF MODIFIED OR REDEVELOPED IMPERVIOUS SURFACES, AND ARE CALCULATED TO BE ABOUT 50,400 SQUARE FEET TOTAL.

4. THE GENERAL FLOW OF STORMWATER IS WESTERLY ACROSS THIS NEARLY LEVEL SITE, TO THE LAKE. THE USE OF SUBSURFACE STORMWATER STRUCTURES IS SEVERELY LIMITED BY THE SITE'S LOW ELEVATION. THE USE OF ABOVE-GROUND TEMPORARY STORMWATER CONTROLS (EG., SILT FENCE, HAY BALES) WOULD BE INEFFECTIVE ON THE EXISTING IMPERVIOUS SURFACES. THE MORE EFFECTIVE EROSION CONTROL WILL BE ACHIEVED BY EXPEDITIOUS CONSTRUCTION DURING FAVORABLE WEATHER AND NON-FLOOD CONDITIONS.

5. POTENTIAL SOIL STOCKPILE LOCATIONS ARE TO BE DETERMINED BY THE CONTRACTOR, FOR EXPEDIENCY OF CONSTRUCTION. THESE WILL LIKELY BE SMALL PILES OF TOPSOIL FOR IMMEDIATE PLACEMENT, OR EXCAVATED SURFACES FOR IMMEDIATE REMOVAL TO AN OFFSITE DISPOSAL FACILITY IN ACCORD WTH VERMONT'S SOLID WASTE RULES. STOCKPILES WILL BE COVERED WTH AN ANCHORED TARP AT THE END OF EACH WORK DAY.

TURF ESTABLISHMENT PROCEDURES

1. ROUGH GRADE THE SUBSOIL TO THE PROPER ELEVATIONS, 4-6 INCHES BELOW THE FINISHED GRADES SPECIFIED ON THE PLANS FOR THE AREA TO BE SEEDED. SPREAD TOPSOIL TO A UNIFORM DEPTH OF 4-6 INCHES. TOPSOIL SHALL COMPLY WTH THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION, SECTION 755.01 "TOPSOIL".

2. REMOVE STICKS, STONES AND ANY OTHER DEBRIS FROM THE TOPSOIL THAT MAY INTERFERE WTH FINE GRADING AND FUTURE MOWING OF THE AREA. THEN FINE GRADE THE TOPSOIL, TAKING CARE TO MAINTAIN 4 INCHES MINIMUM TOPSOIL DEPTH AND TO PROVIDE FOR SURFACE WATER RUNOFF IN ACCORDANCE WTH THE PLANS.

3. APPLY COMMERCIAL FERTILIZER (10-20-20) TO THE AREA, AT A RATE OF 4 POUNDS PER 100 SQUARE FEET (1,700 POUNDS PER ACRE). APPLY AGRICULTURAL LIME TO THE AREA, AT RATE FO 10 POUNDS PER 100 SQUARE FEET (2 TONS PER ACRE). HARROW OR RAKE THE TOPSOIL TO MIX THE FERTILIZER AND LIME TO A 2 INCH MINIMUM DEPTH.

4. PERMANENT SEEDING SHALL OCCUR ONLY BETWEEN APRIL 15 AND OCTOBER 15. AREAS TO BE REGULARLY MOWED SHOULD USE A MIX CONTAINING ABOUT 45 PERCENT KENTUCKY BLUEGRASS, 45 PERCENT CREEPING RED FESCUE, AND ABOUT 10 PERCENT OF RYEGRASS, APPLIED AT 45 POUNDS PER ACRE. NON-MOWED AREAS SHOULD USE A MIX CONTAINING ABOUT 65 PERCENT CREEPING RED FESCUE, 5 PERCENT REDTOP, AND ABOUT 30 PERCENT BIRDSFOOT TREFOIL, APPLIED AT 30 POUNDS PER ACRE. TEMPORARY SEEDING (INCLUDING ALL SEEDING BETWEEN OCTOBER 15 AND APRIL 15) SHALL USE ANNUAL RYE APPLIED AT A RATE OF 45 POUNDS PER ACRE. BURY PERMANENT AND TEMPORARY SEEDS WTH 1/4 INCH OF TOPSOIL.

5. APPLY HAY OR STRAW MULCH EVENLY TO THE SEEDED AREA. MULCH SHALL BE AIR-DRIED, AND FREE OF UNDESIRABLE SEEDS AND COARSE MATERIAL. PLACE MULCH AT A RATE OF 75-100 POUNDS PER 1,000 SQUARE FEET (2-3 BALES SPREAD 3 INCHES DEEP), OR 1.5-2.5 TONS PER ACRE (90-120 BALES SPREAD 3 INCHES DEEP). THE MULCH MAY BE ANCHORED BY THE USE OF A DISK HARROW OR SHEEPSFOOT ROLLER (RUNNING PARALLEL TO THE GROUND CONTOURS), OR A TRACKED VEHICLE (RUNNING PERPENDICULAR TO THE GROUND SLOPE); ALTERNATIVELY A THIN LAYER OF TOPSOIL PLACED OVER THE MULCH AS AN ANCHOR, OR COMMERCIAL NETS, MATS OR ASPHALT TACKING PRODUCTS MAY BE ACCEPTABLE WITH THE ENGINEER'S PRIOR APPROVAL.

6. INSPECT SEEDED AND MULCHED AREAS FREQUENTLY DURING THE FIRST FOUR WEEKS AFTER SEEDING, AND REPLACE OR REANCHOR THE MULCH WHENEVER NECESSARY. CHECK SEEDING NEAR THE END OF THE FIRST GROWING SEASON TO DETERMINE WHETHER ALL AREAS HAVE BECOME FULLY ESTABLISHED. SCARIFY, FERTILIZE, LIME, AND RESEED ANY AREAS WITHOU ADEQUATE PLANT COVER, AND REAPPLY MULCH.

7. AREAS TEMPORARILY SEEDED AND MULCHED BETWEEN OCTOBER 15 AND APRIL 15 SHALL BE RESEEDED AND MULCHED IN ACCORDANCE WTH THESE PERMANENT SEEDING PROCEDURES AFTER APRIL 15.

8. MOW AND FERTILIZE WELL-ESTABLISHED AREAS OF PERMANENT PLANTING ON A REGULAR BASIS TO MAINTAIN VIGOROUS GROWTH.

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7. REFER TO SHEET 1 FOR ADDITIONAL NOTES AND REFERENCES.

EROSION CONTROL MAINTENANCE

ALL EROSION PREVENTION AND SEDIMENT CONTROL STRUCTURES AND MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND AS SOON AS POSSIBLE BUT NO LATER THAN 24 HOURS AFTER ANY STORM EVENT WHICH GENERATES A DISCHARGE OF STORMWATER RUNOFF FROM THE CONSTRUCTION SITE. IF THERE IS NO EARTHWORK PERFORMED DURING THE PERIOD DECEMBER 15 THROUGH MARCH 15 AND ALL EXPOSED SOILS AND DRAINAGE CHANNELS HAVE BEEN AT LEAST TEMPORARILY PROTECTED, INSPECTIONS MAY BE SUSPENDED DURING THAT PERIOD, BUT THE FINAL INSPECTION RECORD FOR THE SEASON SHALL CLEARLY SHOW THE STATUS OF SITE GRADING AND STABILIZATION EFFORTS AT THE END OF THE CONSTRUCTION SEASON.

INSPECTIONS ARE INTENDED TO OBSERVE EVIDENCE OF, OR THE POTENTIAL FOR, SEDIMENT LEAVING FROM DISTURBED AREAS AND MATERIAL STORAGE AREAS; AND INSTALLED SEDIMENT AND EROSION CONTROL MEASURES TO ENSURE THE'Y ARE OPERATING CORRECTLY; LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE; AND DISCHARGE POINTS TO ASSESS WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO RECEIVING WATERS.

INSPECTION REPORTS SHOULD BE MAINTAINED OF EACH INSPECTION, AND SHOULD NOTE THE COMPONENTS AND SCOPE OF THE INSPECTION; NAMES AND QUALIFICATIONS OF PERSONNEL CONDUCTING THE INSPECTION; DATE OF THE INSPECTION; OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION CONTROL PLANS; ACTION TAKEN; AND INCIDENTS OF NONCOMPLIANCE (IF NONE, THEN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WTH THE PLANS SHOULD BE INCLUDED). REPORTS SHALL BE KEPT AT LEAST THREE YEARS AFTER THE THE SITE HAS BEEN FINALLY STABILIZED.

COMPONENT	INSPECTION GUIDELINE	INSPECTION	POSSIBLE MAINTENANCE
TEMPORARY SEEDING	WHAT TYPE OF SEED WAS USED? HOW LONG WILL THE VEGETATION BE IN PLACE BEFORE PLANTING OF PERRENIAL GRASS TAKES PLACE? WHEN WAS THE SEED PLANTED?	INTRUSION OF NOXIOUS WEEDS? COVERAGE 80-100% ? MOVEMENT OF MATERIAL?	IF NOT, RESEED. EVALUATE TIME OF YEAR; PLANT AGAIN. EVALUATE SOIL CONDITIONS, EXCESS MOISTURE, OR NEED TO APPLY MORE SEED. IMPLEMENT WEED CONTROL.
DRY MULCH	DOES THE MULCH COVER 80 - 100 PERCENT OF THE BARE GROUND? IF DRY MULCH IS APPLIED, HOW IS IT HELD IN PLACE? HAS WIND REMOVED THE DRY MULCH, AND IS THIS A PROBLEM?		IF NOT, REAPPLY. NEED TO ANCHOR TO GROUND BY CRIMPING OR TACKIFIER.

SITE & GRADING PLAN

SPOT ON THE DOCK

KING STREET DOCK
BURLINGTON, VERMONT

©

Date
1/20/2021

Project Number
965

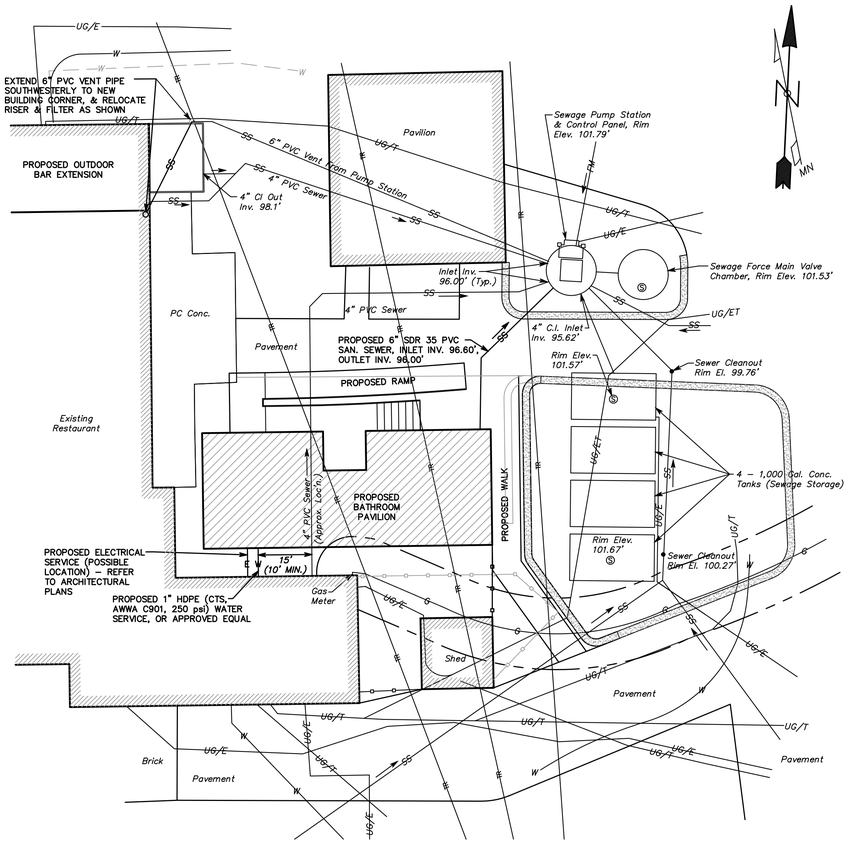
Plan Scale
AS SHOWN

Sheet
2 of 3

BUERMANN ENGINEERING, LLC
7 Sanderson Road, Milton, Vermont 05468
Tel.: (802) 893-1308 www.belvt.com

STATE OF VERMONT
JOHN M. BUERMANN
NO. 7375
PROFESSIONAL ENGINEER

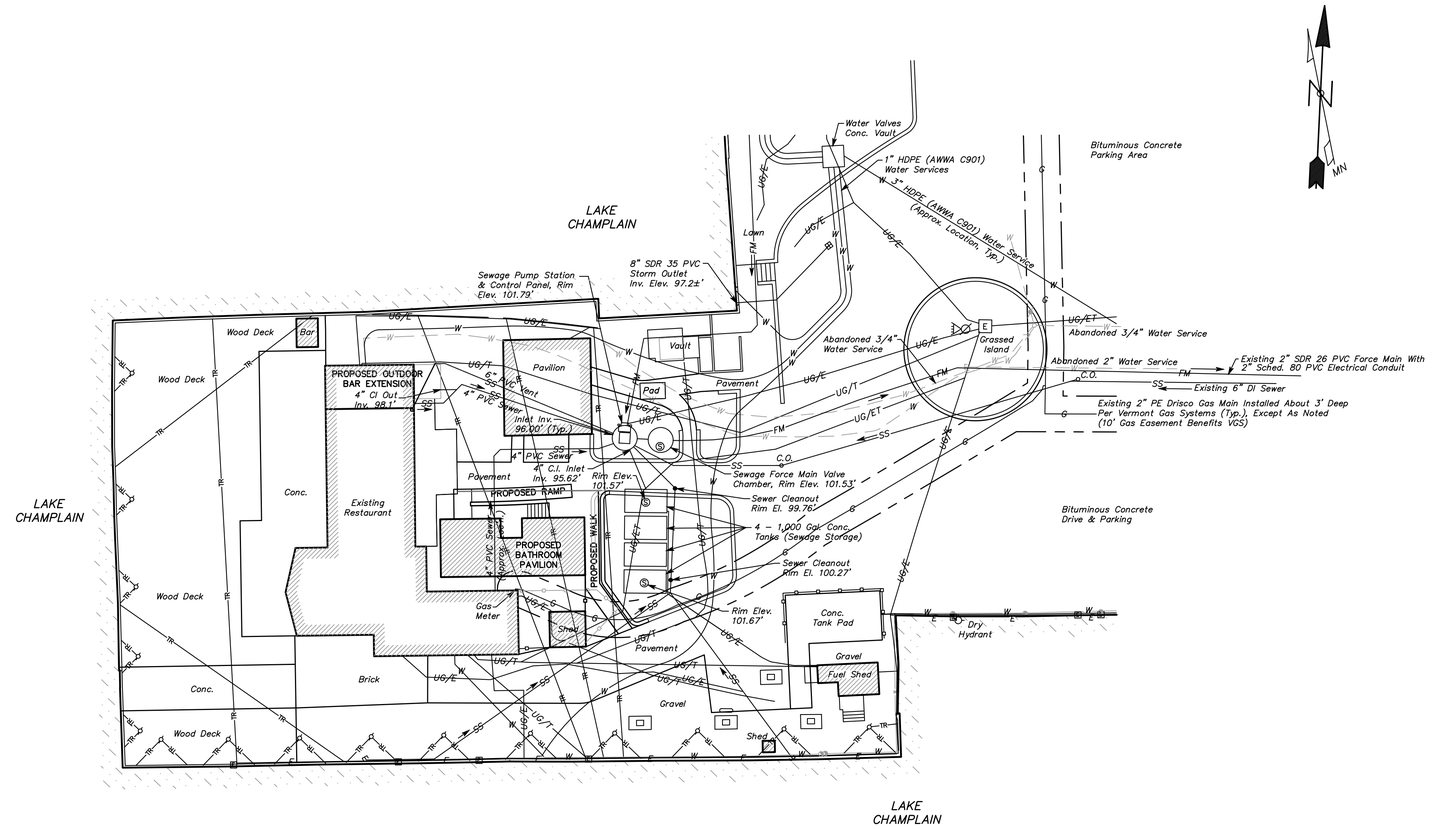
S42R00



GRAPHIC SCALE
(IN FEET)

10 5 0 10 20 30 40

BUILDING VICINITY UTILITY PLAN
1" = 10'



GRAPHIC SCALE
(IN FEET)

20 10 0 20 40 60 80

AREA UTILITY PLAN
1" = 20'

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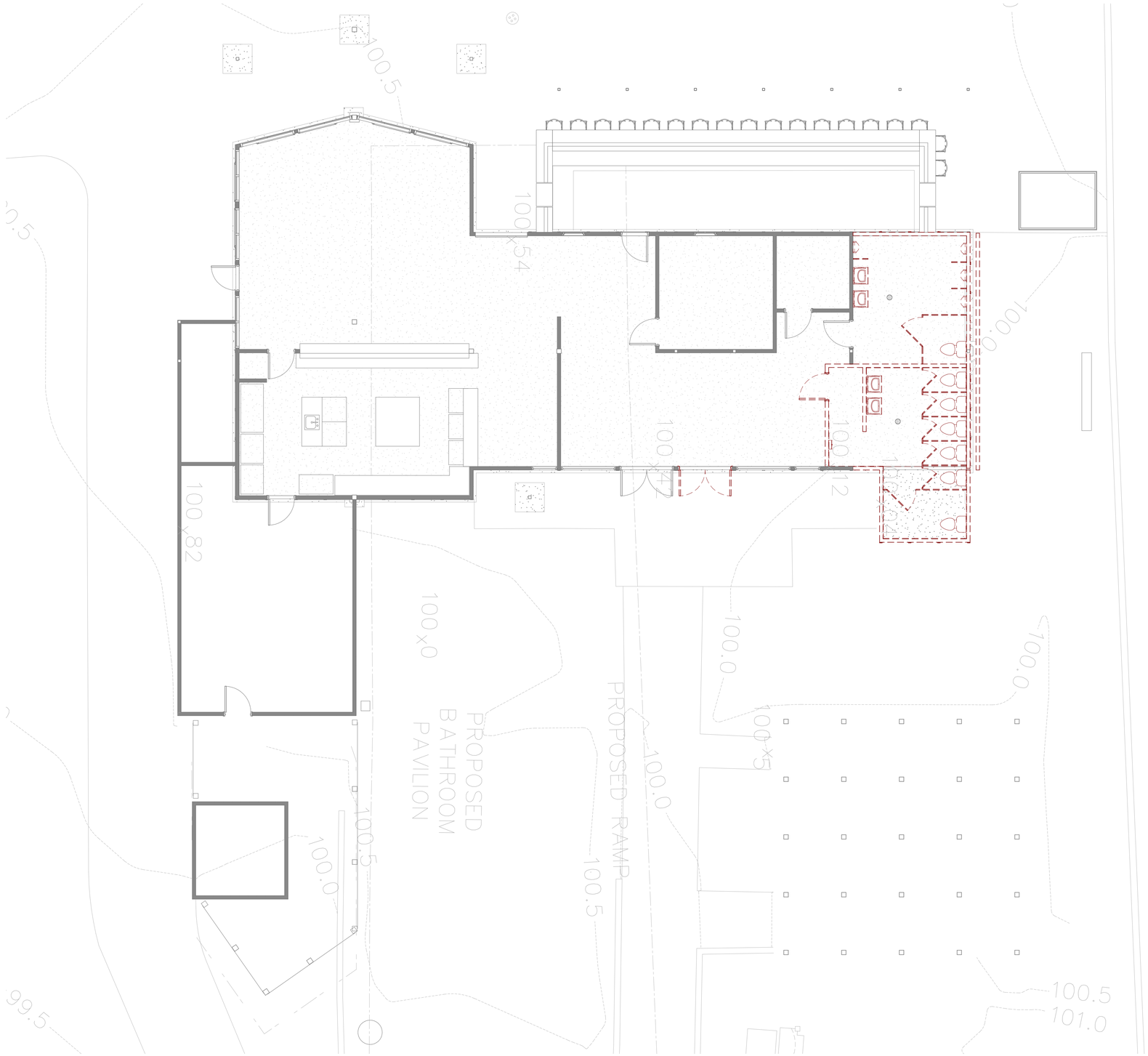
7. REFER TO SHEET 1 FOR PLAN LEGEND, ADDITIONAL NOTES AND REFERENCES.

UTILITY PLAN	Date 1/20/2021
SPOT ON THE DOCK KING STREET DOCK BURLINGTON, VERMONT ©	Project Number 965 Plan Scale AS SHOWN Sheet 3 of 3
BUERMANN ENGINEERING, LLC 7 Sanderson Road, Milton, Vermont 05468 Tel.: (802) 893–1308 www.belvt.com	STATE OF VERMONT JOHN M. BUERMANN NO. 7375 PROFESSIONAL ENGINEER U42R00



1 LEVEL 1 DEMO
D1.01 3/16" = 1'-0"

ZONING PERMIT APPLICATION
NOT FOR CONSTRUCTION

Wiemann Lamphere
ARCHITECTS
525 Hercules Drive
Suite Two
Colchester, VT 05446
802.655.5020
802.622.6567
wiemannlamphere.com

SPOT ON THE DOCK
BATHROOM PAVILION & RENOVATIONS

BURLINGTON VERMONT

#	DATE	REVISION DESCRIPTION

PROGRESS PRINT DATE: 1/22/2021 9:31:15 AM

SCALE: 3/16" = 1'-0"

PROJECT NO: 2020102

DRAWN BY: BH

CHECKED BY: DR

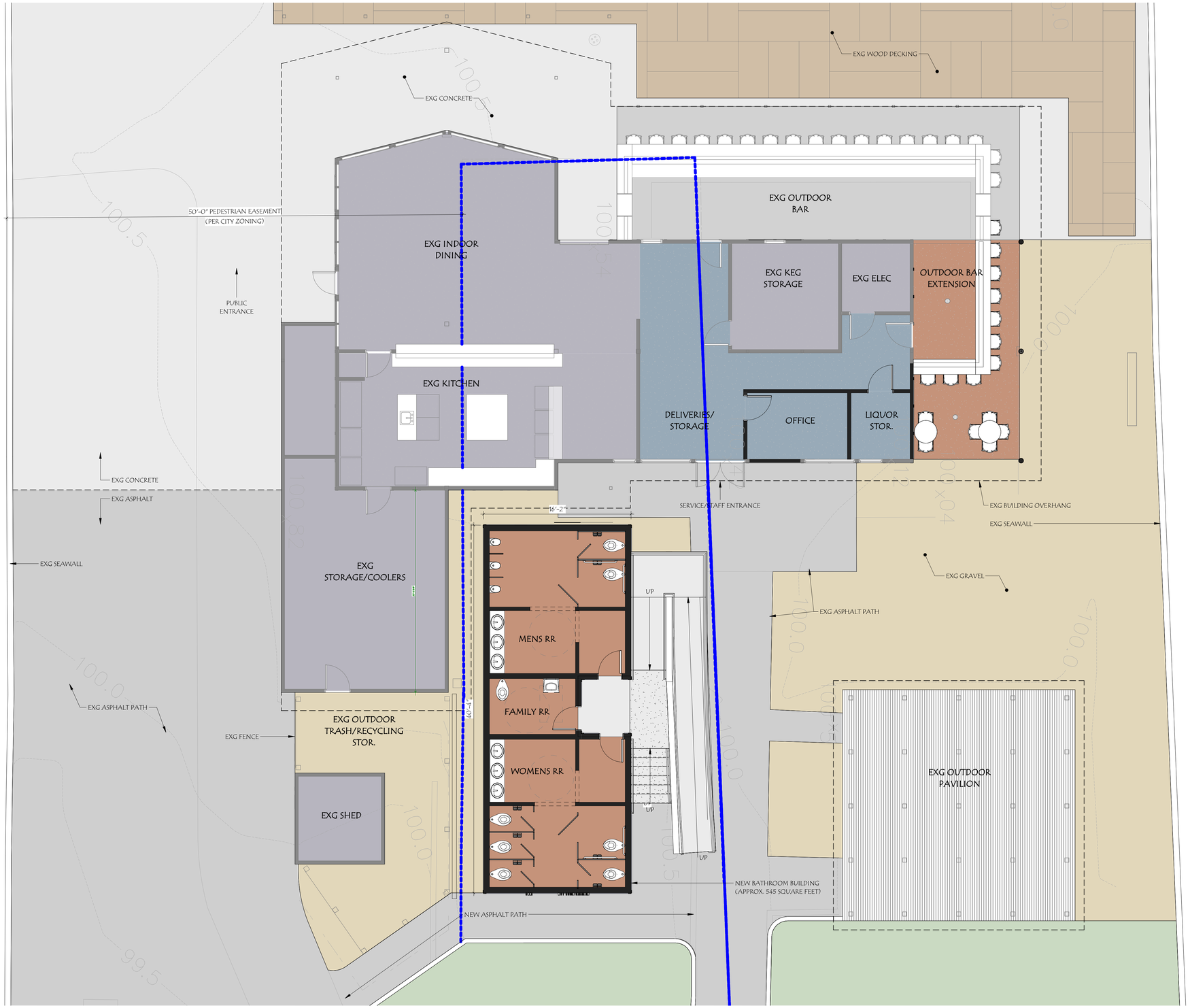
SHEET TITLE:

DEMO FLOOR PLAN

SHEET NUMBER:

D1.01

PRINTED: 1/22/2021 9:31:15 AM FILENAME:C:\Users\kdesrochers.WIEMANNLAMPHERE\Documents\2020\2020 SOTD 821 SD_ARCH_kdesrochers.rvt



1 SD-1 PROPOSED FLOOR PLAN
3/16" = 1'-0"

N

BATHROOM PAVILION & RENOVATIONS

THE SPOT ON THE DOCK - BURLINGTON, VT

PROPOSED FLOOR PLAN

1/22/2021 9:31:35 AM

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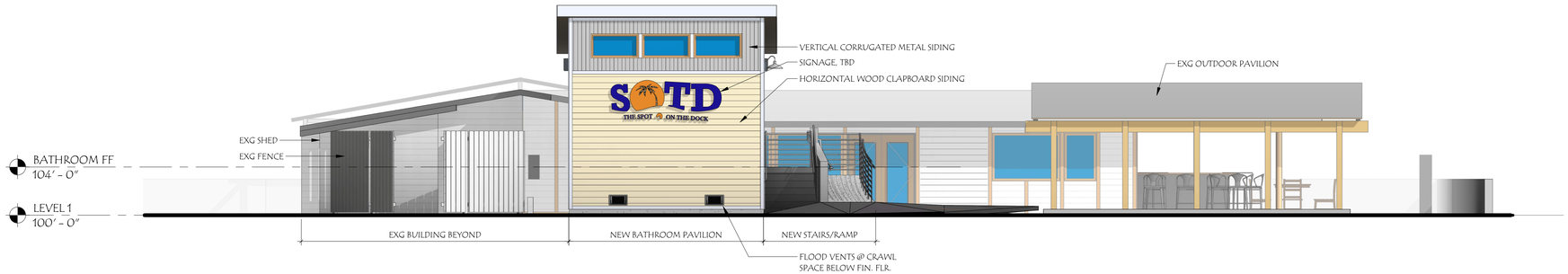
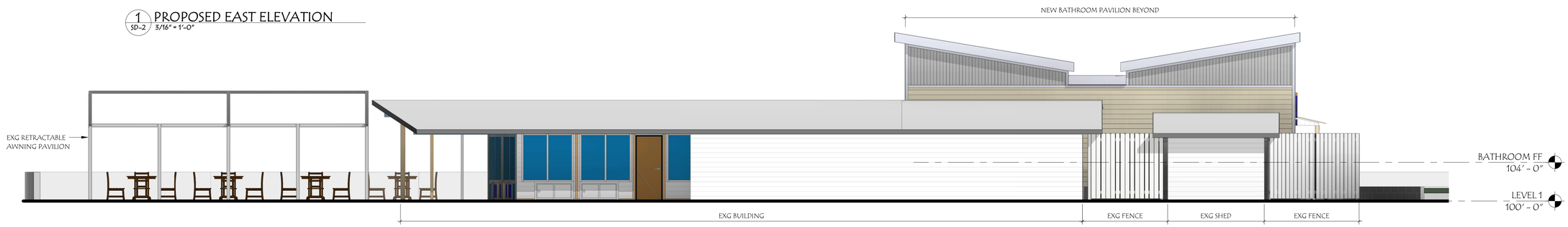
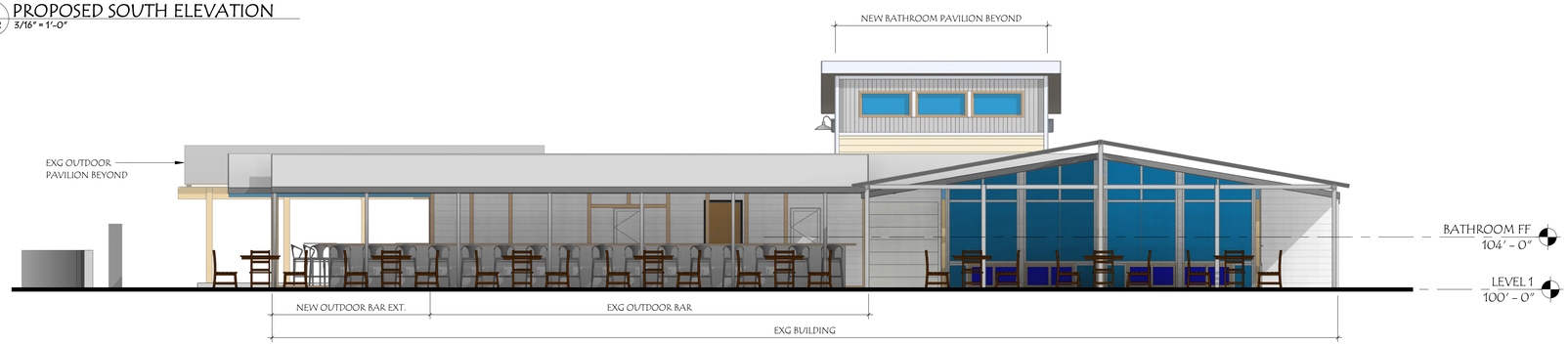
2020-06 | Printed: 1/22/2021 9:31:35 AM C:\Users\kdescoteau\AppData\Local\Temp\AcPublish_1720\2020-06 SOTD_SD_Set_Revit_Central_kdescoteau.rvt



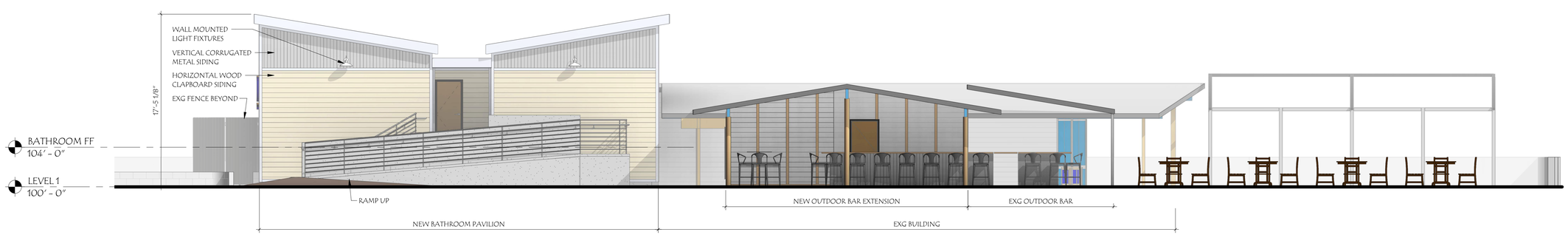
1 SD-2 PROPOSED EAST ELEVATION
3/16" = 1'-0"



2 SD-2 PROPOSED SOUTH ELEVATION
3/16" = 1'-0"



3 SD-2 PROPOSED WEST ELEVATION
3/16" = 1'-0"



4 SD-2 PROPOSED NORTH ELEVATION
3/16" = 1'-0"

BATHROOM PAVILION & RENOVATIONS

THE SPOT ON THE DOCK - BURLINGTON, VT

PROPOSED ELEVATIONS

1/22/2021 9:32:29 AM

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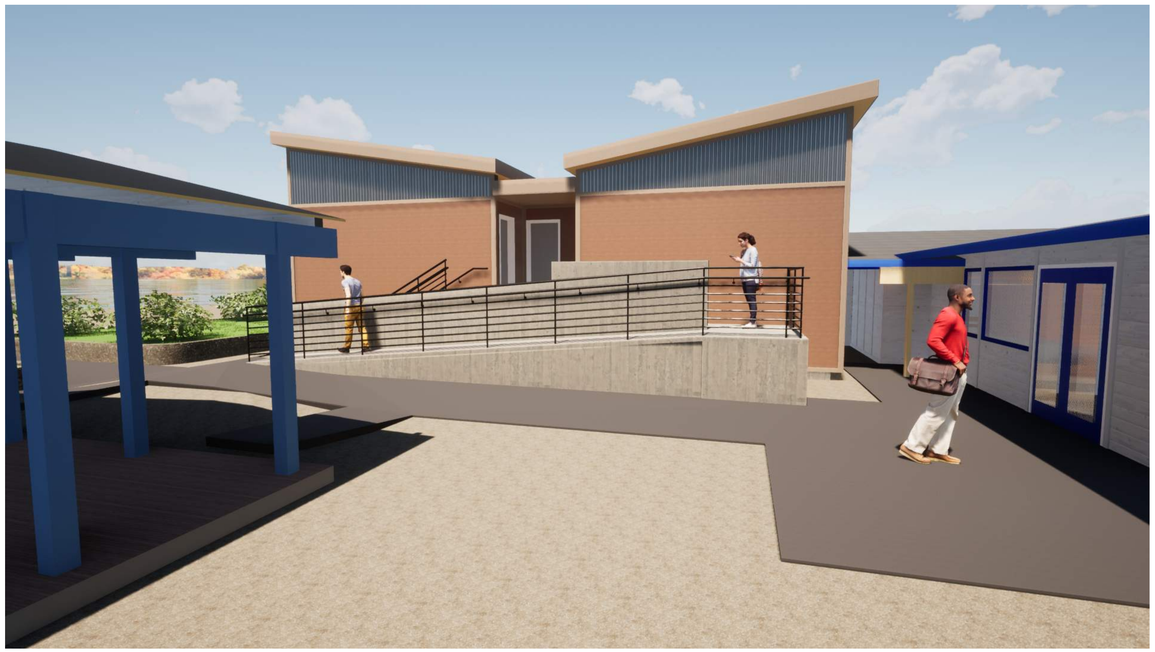
2020 02 | Printed: 1/22/2021 9:32:29 AM C:\Users\kdescoteau\AppData\Local\Temp\AcPublish_6604\SOTD_rvt_SD_Arch_detached.rvt

VIEW FROM EAST

VIEW FROM WEST



VIEW FROM NORTH

BIRD'S EYE VIEW FROM EAST

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BATHROOM PAVILION & RENOVATIONS

THE SPOT ON THE DOCK - BURLINGTON, VT

RENDERED VIEWS

1/22/2021 9:32:29 AM

PHOTO 1: VIEW FROM EAST LOOKING SOUTHWEST TOWARDS RESTAURANT PUBLC ENTRY

PHOTO 2: VIEW FROM EAST LOOKING WEST TOWARDS SERVICE/STAFF ENTRY

PHOTO 3: VIEW FROM NORTHEAST LOOKING SOUTHWEST TOWARDS EXISTING BATHROOMS TO BE DEMOLISHED & REPLACED W/ BAR EXTENSION

PHOTO 4: VIEW FROM NORTH LOOKING SOUTH TOWARDS EXISTING BUILDING & WHERE NEW BATHROOM PAVILION TO BE BUILT

BATHROOM PAVILION & RENOVATIONS

PHOTOGRAPHS OF EXISTING

THE SPOT ON THE DOCK - BURLINGTON, VT

1/22/2021 9:32:30 AM

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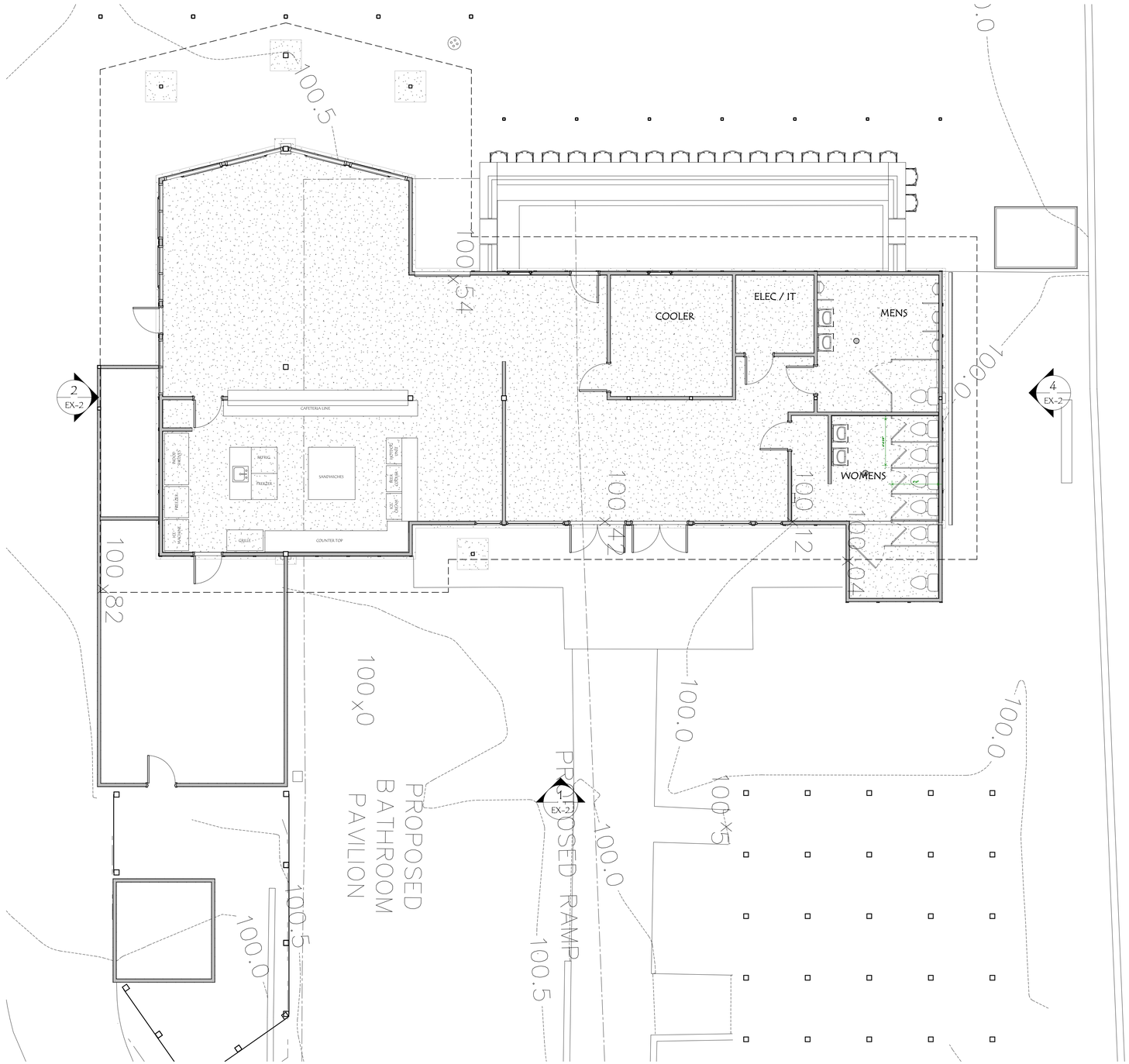


1 EX-1 EXISTING FLOOR PLAN - LEVEL 1
3/16" = 1'-0"

ZONING PERMIT APPLICATION
NOT FOR CONSTRUCTION

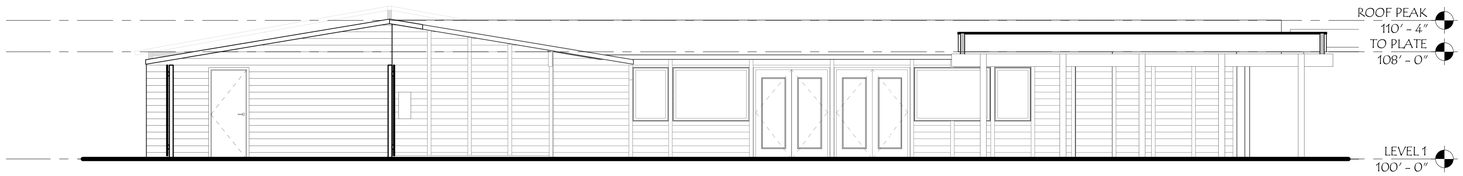
Wiemann Lamphere
ARCHITECTS
525 Hercules Drive
Suite Two
Colchester, VT 05446
802.655.5020
802.622.6567
wiemannlamphere.com

SPOT ON THE DOCK
BATHROOM PAVILION & RENOVATIONS
BURLINGTON VERMONT

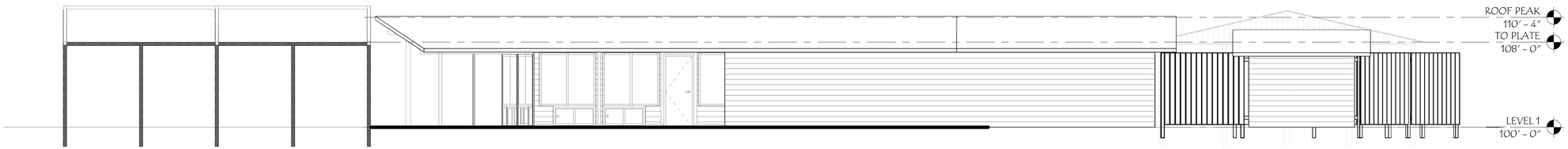
#	DATE	REVISION DESCRIPTION

PROGRESS PRINT DATE: 1/22/2021 9:31:17 AM
SCALE: 3/16" = 1'-0"
PROJECT NO: 2020102
DRAWN BY: BH
CHECKED BY: DR
SHEET TITLE: EXISTING FLOOR PLAN
SHEET NUMBER: EX-1

PRINTED: 1/22/2021 9:31:17 AM FILENAME: C:\Users\kdesrosiers\WIEMANN LAMPHERE\Documents\2020102 SOTD 821 SD_ARCH_kdesrosiers.rvt



1 EX-2 EXISTING ELEVATION - EAST
3/16" = 1'-0"



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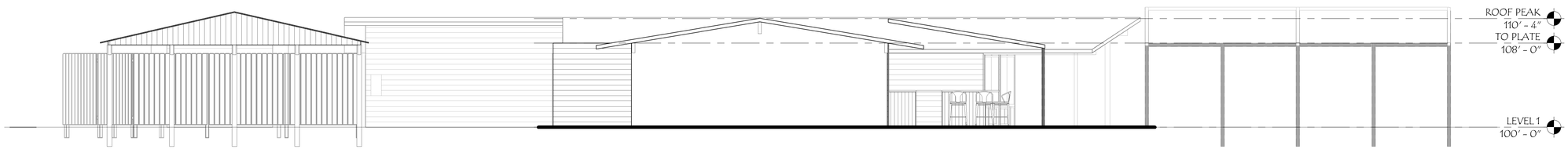
3/16" = 1'-0"

3 EX-2 EXISTING ELEVATION - WEST
3/16" = 1'-0"



4 EX-2 EXISTING ELEVATION - NORTH
3/16" = 1'-0"

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NOT FOR CONSTRUCTION

Wiemann Lamphere
ARCHITECTS
525 Hercules Drive
Suite Two
Colchester, VT 05446
802.655.5020
802.622.6567
wiemannlamphere.com

SPOT ON THE DOCK
BATHROOM PAVILION & RENOVATIONS
BURLINGTON VERMONT

#	DATE	REVISION DESCRIPTION

PROGRESS PRINT DATE: 1/22/2021 9:31:20 AM

SCALE: 3/16" = 1'-0"

PROJECT NO: 2020102

DRAWN BY: BH

CHECKED BY: DR

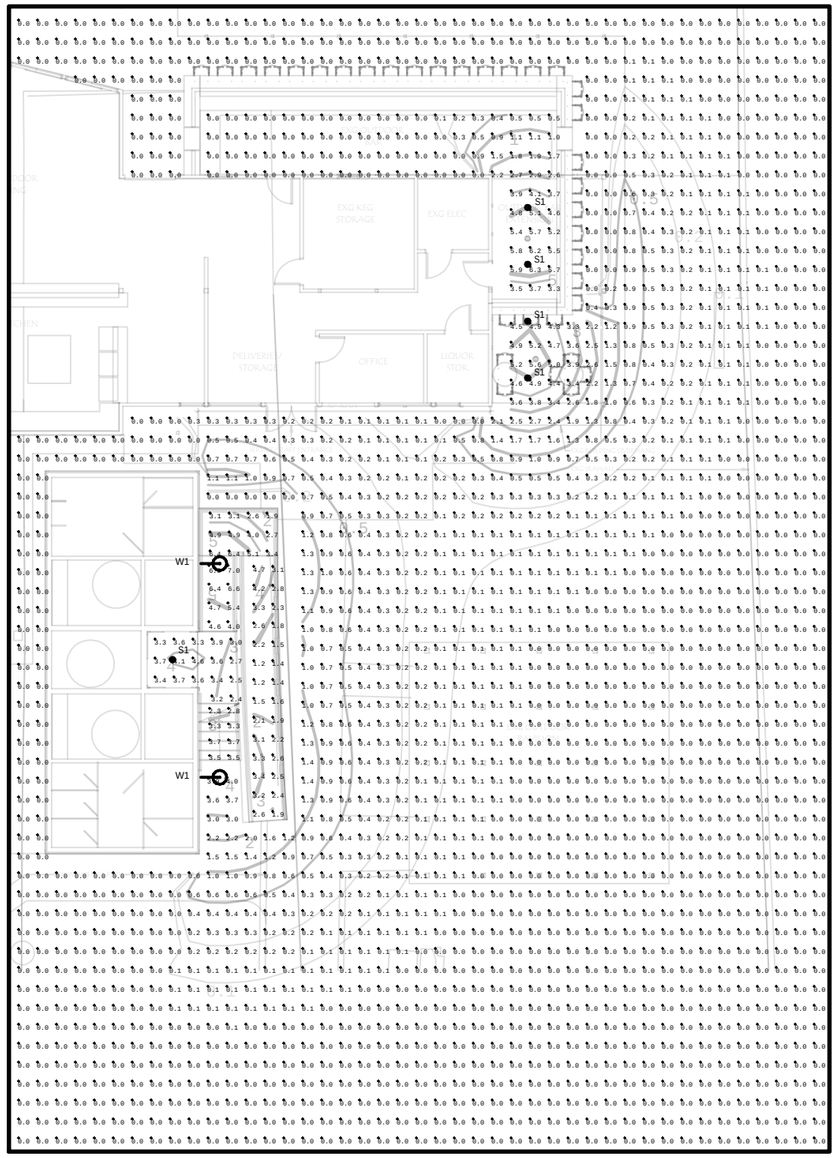
SHEET TITLE:

EXISTING ELEVATIONS

SHEET NUMBER:

EX-2

PRINTED: 1/22/2021 9:31:20 AM FILENAME:C:\Users\kdesrosiers\WIEMANNLAMPHERE\Documents\2020102 SOTD 821 SD ARCH kdesrosiers.rvt



JOB NAME: THE SPOT ON THE DOCK - EXTERIOR
DATE: 1/19/2021
APEX LIGHTING SOLUTIONS
REFLECTANCES: NONE USED
WORKPLANE: AS NOTED IN CALCULATION SUMMARY

Luminaire Schedule

Qty	Label	Wattage	Luminaire Lumens	LLF	Description
5	S1	9.8	635	0.900	LIGHTOLIER S5R830K7WZ10U Surface Mounted to Ceiling
2	W1	16	1248	0.900	BARN LIGHT BLE-G-FCC15-FINISH-G22-FINISH-NA-NA-LD16-3000K-FL Mounted to Structure @ 12ft AFG

Calculation Summary

Label	Avg - FC	Max - FC	Min - FC	Avg/Min	Max/Min
OVERALL GRID @ GRADE	0.18	6.3	0.0	N.A.	N.A.
REST ROOM RAMP, LANDING & STAIR ON WALKING SURFACE	3.37	7.0	1.2	2.81	5.83

GENERAL DISCLAIMER:

Calculations have been performed according to IES standards and good practice Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.

* LLF Determined Using Current Published Lamp Data

NOTE TO REVIEWER:

Total Light Loss Factor (LLF) applied at time of design is determined by applying the Lamp Lumen Depreciation (LLD) from current lamp manufacturer's catalog, a Luminaire Dirt Depreciation Factor (LDD) based on IES recommended values and a Ballast Factor (BF) from current ballast specification sheets. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately depict actual results.

For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.

APEX LIGHTING SOLUTIONS
THE POINT WHERE ALL ASCENDING LINES CONVERGE

CONNECTICUT
MASSACHUSETTS
RHODE ISLAND
MAINE
NEW HAMPSHIRE
VERMONT

PHONE: 877-886-2843
FAX: 877-886-2844

www.apexltg.com

PROJECT TITLE:

THE SPOT ON THE DOCK

DRAWING TITLE:

EXTERIOR LIGHTING POINT CALCULATION

SCALE : 1/16"=1'-0"

DATE: 1/19/2021

DRAWN BY: DC

SHEET:

SL-1A

LIGHTOLIER
by signify

APEX LIGHTING SOLUTIONS

TYPE S1

SlimSurface LED

S5R, S7R & S10R Round 5", 7" and 10" Apertures

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

SlimSurface is a 5/8" thick LED surface mounted luminaire with the appearance of a recessed downlight. Easy to install into most standard j-boxes, the SlimSurface round apertures are available as a 5" 650lm, 7" 1000lm and 10" 2200lm fixture.

Ordering guide

example: S5R830K7AL

Series	CRI	CCT	Lumens	Finish	Dimming
S5R SlimSurface 5" Round	**8** 80 **9** 90[1]	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**7** 650lm	**—** White **AL** Aluminum **BK** Black	**blank** ELV / Triac (120V)
				W White **AL** Aluminum **BK** Black	**Z10U** 0-10V (120V-277V)
S7R SlimSurface 7" Round	**8** 80 **9** 90[1]	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**10** 1000lm	**—** White **AL** Aluminum **BK** Black	**blank** ELV / Triac (120V)
				W White **AL** Aluminum **BK** Black	**Z10U** 0-10V (120V-277V)
S10R SlimSurface 10" Round[2]	**8** 80 **9** 90[1]	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**22** 2200lm	**W** White **AL** Aluminum **BK** Black **MT** Metallic	**blank** ELV / Triac (120V) **Z10U** 0-10V (120V-277V)

1. Configurations using 90 CRI are only available with 2700K & 3000K CCT.
2. IMPORTANT: SlimSurface LED 10" round installs into 4-11/16" J-box (not wet location listed).

Features

1. **Flange:** One piece plastic flange. Injection molded white, applied aluminum or black.
2. **Lens:** High transmittance lens allowing for smooth, comfortable light pattern.
3. **Power supply:** Integral class 2 driver. Factory wired electronic LED driver (see Electrical section for specifications)
4. **LED Strip:** Utilizes LEDs.
5. Lifetime: Expected lifetime 50,000 hours and backed by a 5-year warranty*
6. **Compliance:** Non-conductive fixture for shower light application (not applicable to metal trim model).

Dimming

Intended for ELV/Triac (120V) or 0-10V dimming (120V-277V) based on the configuration. Min 90°C supply conductors.

Electrical

Electronic power supply: RoHS compliant. Class 2 power unit. Unit tolerates sustained open and short circuit output conditions without damage.

Labels

cULus listed. ENERGY STAR® certified. All models are damp location rated for walls or ceilings. The 5" & 7" are suitable for ceiling mount wet locations when installed per instructions.

Electrical specifications	Dimming	Input volts	Input frequency	Input current	Input Power	THD Factor	Power Factor	Minimum Operating Temp.
Slim 5" 650lm	Triac	120V	50/60Hz	0.08A	9.5W	<15%	>0.9	-20°C
	0-10V	120V	50/60Hz	0.09A	10.1W	<20%	>0.9	-20°C
		277V	50/60Hz	0.04A	10.2W	<20%	>0.9	-20°C
Slim 7" 1000lm	Triac	120V	50/60Hz	0.13A	14.2W	<15%	>0.9	-20°C
	0-10V	120V	50/60Hz	0.12A	14.4W	<20%	>0.9	-20°C
		277V	50/60Hz	0.06A	14.7W	<20%	>0.9	-20°C
Slim 10" 2200lm	Triac	120V	50/60Hz	0.20A	23.2W	<20%	>0.9	-20°C
	0-10V	120V	50/60Hz	0.20A	23.2W	<10%	>0.95	-20°C
		277V	50/60Hz	0.09A	24.6W	<15%	>0.95	-20°C

Fore more details, please see LED-DIM-DL spec sheet.
* See Philips.com/warranties for warranty details.

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

Compatibility (10" Round)

Install into 4-11/16" J-box:

4 11/16" square (metal)

Compatible with S10R only

Compatibility (5" & 7" Round)

Installs into standard J-box applications for 5" & 7" models:

3½" round (plastic)

4" square (plastic)

Not compatible with S5R

4" octagonal (metal)

4" square (metal)

Not compatible with S5R

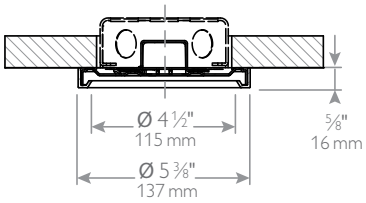
Fire rated J-box

Fire rated classification is per the ceiling and junction box ratings.

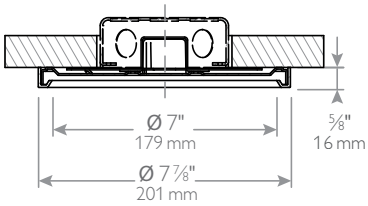
Note: A 2 1/8" deep octagon junction box is recommended for through circuit wiring applications.

Dimensions

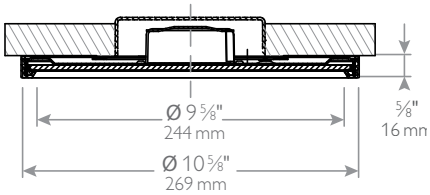
SlimSurface LED 5" downlight

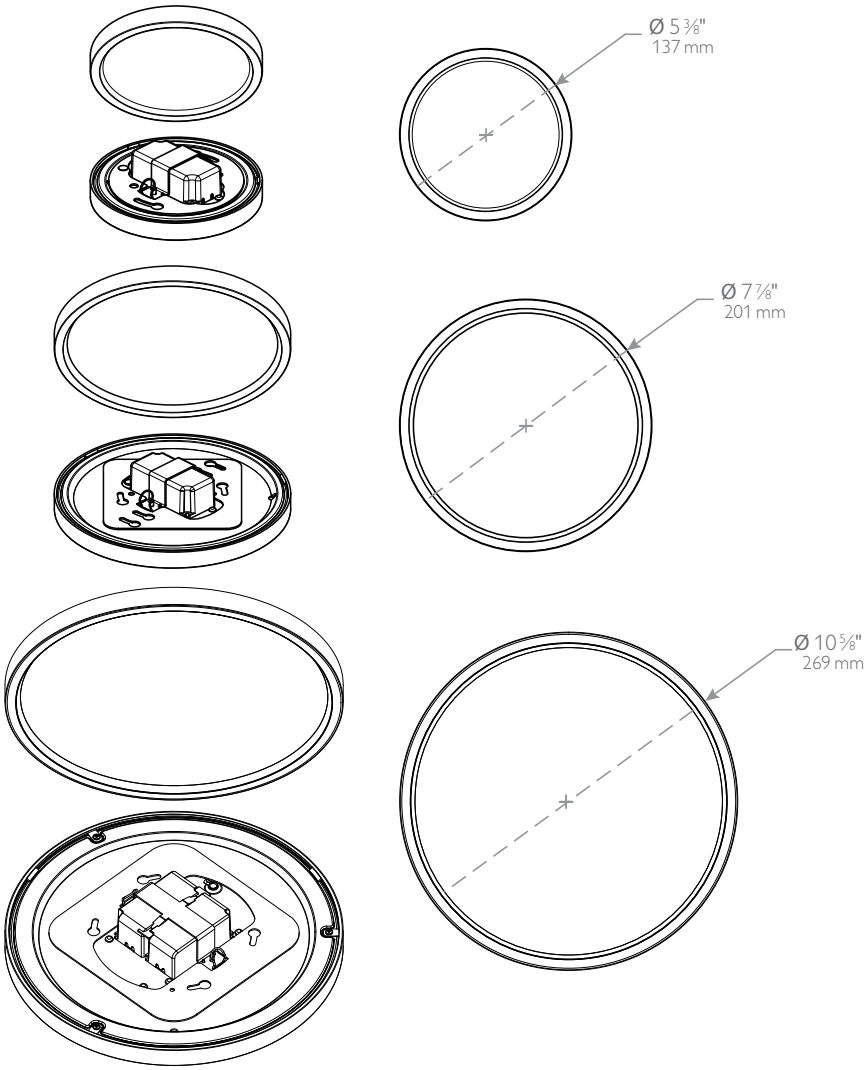


SlimSurface LED 7" downlight



SlimSurface LED 10" downlight



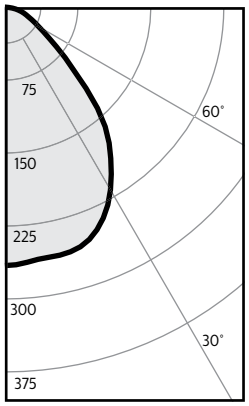


S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S5R927K7 • 10 W LED, 90 CRI, 2700 K

Candela Curves



Angle	Mean CP	Lumens
0	266	
5	263	25
10	261	
15	260	736
20	254	
25	239	110
30	217	
35	190	118
40	160	
45	118	91
50	81	
55	55	51
60	40	
65	30	31
70	23	
75	18	18
80	11	
85	4	5
90	0	

Report[1]: 1053GFR

Output lumens:	523 lms	Efficacy:	57.4 lm/w
Spacing Criterion:	1.2	CCT[3]:	2700 K
Beam Angle:	87°	CRI:	90 min
Input Watts[2]:	9.1 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	11	6.0'
6'	7	7.2'
7'	5	8.4'
8'	4	9.6'
9'	3	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	21.8	0.40
6'	14.2	0.26
7'	10.2	0.19
8'	8.5	0.16
9'	6.8	0.13

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	105	98	100	95	97	92	88
2	102	96	90	85	94	84	90	82	87	80	77
3	95	86	79	73	84	73	82	72	79	70	67
4	88	78	70	64	76	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	64	57	51	64	51	62	50	60	50	48
7	71	59	51	46	58	46	57	45	56	45	43
8	67	54	47	42	54	41	53	41	51	41	39
9	63	50	43	38	50	38	49	38	48	37	36
10	59	47	40	35	46	35	45	34	44	34	33

Zonal lumens & percentages

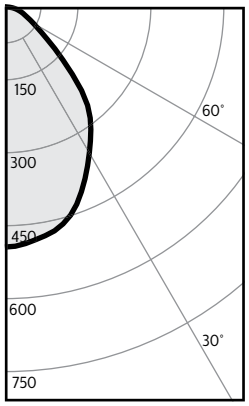
Zone	Lumens	%Luminaire
0-30	208	39.8%
0-40	326	62.5%
0-60	469	89.7%
0-90	522	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S7R927K10 • 14 W LED, 90 CRI, 2700 K

Candela Curves



Angle	Mean CP	Lumens
0	496	
5	490	46
10	479	
15	464	130
20	433	
25	391	180
30	348	
35	309	193
40	265	
45	197	152
50	135	
55	92	85
60	68	
65	51	52
70	40	
75	30	32
80	21	
85	9	10
90	0	

Report[1]: 962GFR

Output lumens:	880 lms	Efficacy:	65.2 lm/w
Spacing Criterion:	1.1	CCT[3]:	2700 K
Beam Angle:	83°	CRI:	90 min
Input Watts[2]:	13.5 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	20	5.5'
6'	14	6.6'
7'	10	7.7'
8'	8	8.8'
9'	6	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	21.8	2.89
6'	14.2	1.90
7'	10.2	1.35
8'	8.5	1.13
9'	6.8	0.90

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	104	98	100	95	96	92	88
2	102	96	90	85	94	84	90	82	87	80	77
3	95	86	79	74	85	73	82	72	79	71	67
4	88	78	70	65	77	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	65	57	51	64	51	62	51	61	50	48
7	71	59	52	46	59	46	57	46	56	45	43
8	67	55	47	42	54	42	53	42	52	41	39
9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	356	40.5%
0-40	549	62.4%
0-60	786	89.3%
0-90	880	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

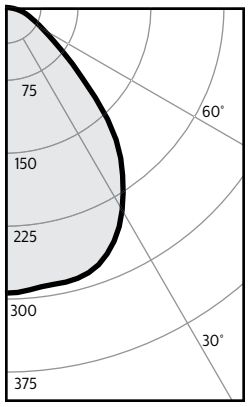
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S5R827K7 • 10 W LED, 80 CRI, 2700 K

Candela Curves



Angle	Mean CP	Lumens
0	294	
5	291	28
10	289	
15	288	81
20	281	
25	265	121
30	241	
35	211	131
40	178	
45	131	102
50	91	
55	62	57
60	45	
65	34	34
70	26	
75	20	21
80	13	
85	4	5
90	0	

Report[1]: 1054GFR

Output lumens:	581 lms	Efficacy:	62.5 lm/w
Spacing Criterion:	1.2	CCT[3]:	2700 K
Beam Angle:	87°	CRI:	80 min
Input Watts[2]:	9.3 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	12	6.0'
6'	8	7.2'
7'	6	8.4'
8'	5	9.6'
9'	4	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	24.2	2.77
6'	15.8	1.82
7'	11.3	1.30
8'	9.5	1.08
9'	7.5	0.87

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	105	105	100	95	97	92	88
2	102	96	90	85	94	94	90	82	87	80	77
3	95	86	79	73	84	84	82	72	79	70	67
4	88	78	70	64	76	76	74	63	72	62	60
5	82	71	63	57	70	70	68	56	66	56	53
6	76	64	57	51	64	64	62	50	60	50	48
7	71	59	51	46	58	58	57	45	56	45	43
8	67	54	47	42	54	54	53	41	51	41	39
9	63	50	43	38	50	50	49	38	48	37	36
10	59	47	40	35	46	46	45	34	44	34	33

Zonal lumens & percentages

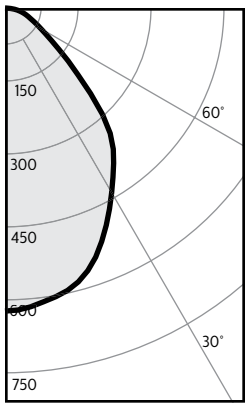
Zone	Lumens	%Luminaire
0-30	231	39.7%
0-40	362	62.3%
0-60	521	89.6%
0-90	581	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S7R827K10 • 14 W LED, 80 CRI, 2700 K

Candela Curves



Angle	Mean CP	Lumens
0	625	
5	618	59
10	604	
15	584	164
20	546	
25	494	227
30	440	
35	390	244
40	337	
45	250	193
50	170	
55	117	108
60	85	
65	65	65
70	51	
75	39	41
80	27	
85	12	13
90	0	

Report[1]: 964GFR

Output lumens:	1113 lms	Efficacy:	83.1 lm/w
Spacing Criterion:	1.1	CCT[3]:	2700 K
Beam Angle:	83°	CRI:	80 min
Input Watts[2]:	13.4 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	25	5.5'
6'	17	6.6'
7'	13	7.7'
8'	10	8.8'
9'	8	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	24.2	3.68
6'	15.8	2.42
7'	11.3	1.73
8'	9.5	1.44
9'	7.5	1.15

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	104	98	100	95	96	92	88
2	102	96	90	85	94	84	90	82	87	80	77
3	95	86	79	74	85	73	82	72	79	71	67
4	88	78	70	65	77	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	65	57	51	64	51	62	51	61	50	48
7	71	59	52	46	59	46	57	46	56	45	43
8	67	55	47	42	54	42	53	42	52	41	39
9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	449	40.4%
0-40	693	62.3%
0-60	994	89.3%
0-90	1113	100.0%

CRI and CCT adjustment factors

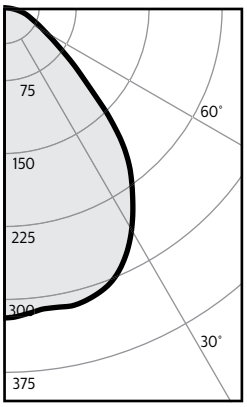
90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S5R830K7 • 10 W LED, 80 CRI, 3000 K

Candela Curves



Angle	Mean CP	Lumens
0	319	
5	315	30
10	313	
15	313	88
20	306	
25	290	131
30	264	
35	231	142
40	197	
45	146	109
50	100	
55	69	62
60	50	
65	38	37
70	29	
75	22	22
80	15	
85	6	6
90	0	

Report[1]: 1055GFR

Output lumens:	628 lms	Efficacy:	69.0 lm/w
Spacing Criterion:	1.2	CCT[3]:	3000 K
Beam Angle:	87°	CRI:	80 min
Input Watts[2]:	9.1 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	13	6.0'
6'	9	7.2'
7'	7	8.4'
8'	5	9.6'
9'	4	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	26.2	3.06
6'	17.1	2.01
7'	12.2	1.43
8'	10.2	1.19
9'	8.1	0.96

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	105	98	100	95	97	92	88
2	102	96	90	85	94	84	90	82	87	80	77
3	95	86	79	73	84	73	82	72	79	70	67
4	88	78	70	64	76	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	64	57	51	64	51	62	50	60	50	48
7	71	59	51	46	58	46	57	45	56	45	43
8	67	54	47	42	54	41	53	41	51	41	39
9	63	50	43	38	50	38	49	38	48	37	36
10	59	47	40	35	46	35	45	34	44	34	33

Zonal lumens & percentages

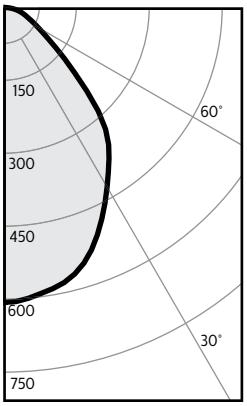
Zone	Lumens	%Luminaire
0-30	249	39.7%
0-40	391	62.3%
0-60	562	89.6%
0-90	628	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S7R830K10 • 14 W LED , 80 CRI, 3000 K

Candela Curves



Angle	Mean CP	Lumens
0	607	
5	601	57
10	588	
15	568	159
20	531	
25	480	221
30	427	
35	379	237
40	328	
45	243	187
50	165	
55	113	105
60	83	
65	63	63
70	49	
75	37	39
80	26	
85	12	13
90	0	

Report[1]: 961GFR

Output lumens:	1081 lms	Efficacy:	80.0 lm/w
Spacing Criterion:	1.1	CCT[3]:	3000 K
Beam Angle:	83°	CRI:	80 min
Input Watts[2]:	13.5 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	24	5.5'
6'	17	6.6'
7'	12	7.7'
8'	9	8.8'
9'	7	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	26.2	3.55
6'	17.1	2.33
7'	12.2	1.66
8'	10.2	1.39
9'	8.1	1.11

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	104	98	100	95	96	92	88
2	102	96	90	85	94	84	90	82	87	80	77
3	95	86	79	74	85	73	82	72	79	71	67
4	88	78	70	65	77	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	65	57	51	64	51	62	51	61	50	48
7	71	59	52	46	59	46	57	46	56	45	43
8	67	55	47	42	54	42	53	42	52	41	39
9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	437	40.4%
0-40	674	62.3%
0-60	966	89.4%
0-90	1081	100.0%

CRI and CCT adjustment factors

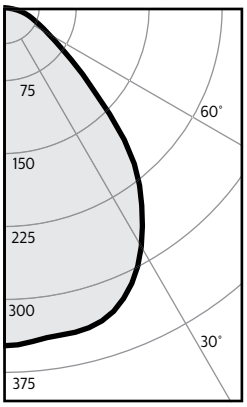
90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S5R835K7 • 10 W LED, 80 CRI, 3500 K

Candela Curves



Angle	Mean CP	Lumens
0	347	
5	344	33
10	341	
15	340	96
20	332	
25	312	143
30	283	
35	248	155
40	209	
45	154	119
50	107	
55	74	68
60	53	
65	41	41
70	31	
75	23	25
80	15	
85	5	7
90	0	

Report[1]: 1056GFR

Output lumens:	685 lms	Efficacy:	75.3 lm/w
Spacing Criterion:	1.2	CCT[3]:	3500 K
Beam Angle:	87°	CRI:	80 min
Input Watts[2]:	9.1 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	14	6.0'
6'	10	7.2'
7'	7	8.4'
8'	5	9.6'
9'	4	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	28.6	3.34
6'	18.7	2.19
7'	13.3	1.56
8'	11.2	1.30
9'	8.9	1.04

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	111	106	100
1	111	107	103	100	105	98	100	95	95	92	88
2	102	96	90	85	94	84	90	82	82	80	77
3	95	86	79	73	84	73	82	72	72	70	67
4	88	78	70	64	76	64	74	63	63	62	60
5	82	71	63	57	70	57	68	56	56	56	53
6	76	64	57	51	64	51	62	50	50	50	48
7	71	59	51	46	58	46	57	45	45	45	43
8	67	54	47	42	54	41	53	41	41	41	39
9	63	50	43	38	50	38	49	38	38	37	36
10	59	47	40	35	46	35	45	34	34	34	33

Zonal lumens & percentages

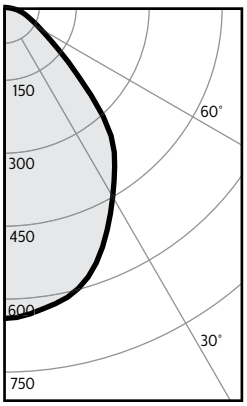
Zone	Lumens	%Luminaire
0-30	272	39.6%
0-40	426	62.2%
0-60	613	89.5%
0-90	685	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S7R835K10 • 14 W LED, 80 CRI, 3500 K

Candela Curves



Angle	Mean CP	Lumens
0	639	
5	632	60
10	618	
15	597	167
20	558	
25	505	232
30	449	
35	399	249
40	345	
45	255	197
50	174	
55	120	111
60	88	
65	67	67
70	52	
75	40	42
80	28	
85	12	13
90	0	

Report[1]: 965GFR

Output lumens:	1139 lms	Efficacy:	84.4 lm/w
Spacing Criterion:	1.1	CCT[3]:	3500 K
Beam Angle:	83°	CRI:	80 min
Input Watts[2]:	13.5 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	26	5.5'
6'	18	6.6'
7'	13	7.7'
8'	10	8.8'
9'	8	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	28.6	3.74
6'	18.7	2.45
7'	13.3	1.75
8'	11.2	1.46
9'	8.9	1.17

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	104	98	100	95	96	92	88
2	102	96	90	85	94	84	90	82	87	80	77
3	95	86	79	74	85	73	82	72	79	71	67
4	88	78	70	65	77	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	65	57	51	64	51	62	51	61	50	48
7	71	59	52	46	59	46	57	46	56	45	43
8	67	55	47	42	54	42	53	42	52	41	39
9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	459	40.3%
0-40	708	62.2%
0-60	1016	89.2%
0-90	1139	100.0%

CRI and CCT adjustment factors

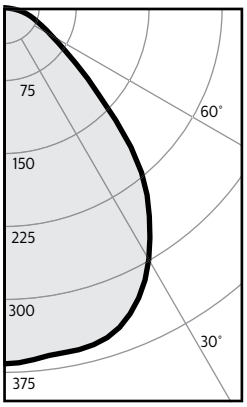
90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S5R840K7 • 10 W LED, 80 CRI, 4000 K

Candela Curves



Angle	Mean CP	Lumens
0	366	
5	363	35
10	360	
15	359	101
20	350	
25	329	151
30	299	
35	262	163
40	221	
45	163	126
50	113	
55	79	72
60	57	
65	44	44
70	34	
75	25	27
80	16	
85	6	7
90	0	

Report[1]: 1057GFR

Output lumens:	726 lms	Efficacy:	79.8 lm/w
Spacing Criterion:	1.2	CCT[3]:	4000 K
Beam Angle:	87°	CRI:	80 min
Input Watts[2]:	9.1 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	15	6.0'
6'	10	7.2'
7'	7	8.4'
8'	6	9.6'
9'	5	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	30.3	3.54
6'	19.8	2.32
7'	14.1	1.66
8'	11.8	1.38
9'	9.4	1.10

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	105	98	100	95	97	92	88
2	102	96	90	85	94	84	90	82	87	80	77
3	95	86	79	73	84	73	82	72	79	70	67
4	88	78	70	64	76	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	64	57	51	64	51	62	50	60	50	48
7	71	59	51	46	58	46	57	45	56	45	43
8	67	54	47	42	54	41	53	41	51	41	39
9	63	50	43	38	50	38	49	38	48	37	36
10	59	47	40	35	46	35	45	34	44	34	33

Zonal lumens & percentages

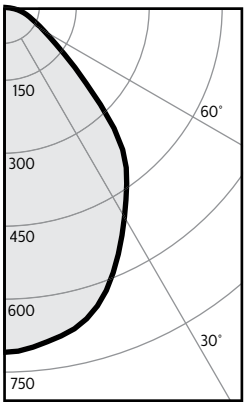
Zone	Lumens	%Luminaire
0-30	286	39.5%
0-40	450	62.0%
0-60	648	89.3%
0-90	726	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S7R840K10 • 14 W LED, 90 CRI, 2700 K

Candela Curves



Angle	Mean CP	Lumens
0	710	
5	702	66
10	686	
15	663	186
20	620	
25	560	258
30	499	
35	443	276
40	382	
45	283	218
50	193	
55	133	122
60	97	
65	74	74
70	57	
75	44	46
80	30	
85	14	15
90	0	

Report[1]: 963GFR

Output lumens:	1262 lms	Efficacy:	94.2 lm/w
Spacing Criterion:	1.1	CCT[3]:	4000 K
Beam Angle:	83°	CRI:	80 min
Input Watts[2]:	13.4 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	28	5.5'
6'	20	6.6'
7'	14	7.7'
8'	11	8.8'
9'	9	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	30.3	4.17
6'	19.8	2.74
7'	14.1	1.96
8'	11.8	1.63
9'	9.4	1.30

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	104	98	100	95	96	92	88
2	102	96	90	85	94	84	90	82	87	80	77
3	95	86	79	74	85	73	82	72	79	71	67
4	88	78	70	65	77	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	65	57	51	64	51	62	51	61	50	48
7	71	59	52	46	59	46	57	46	56	45	43
8	67	55	47	42	54	42	53	42	52	41	39
9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	510	40.4%
0-40	786	62.3%
0-60	1127	89.3%
0-90	1262	100.0%

CRI and CCT adjustment factors

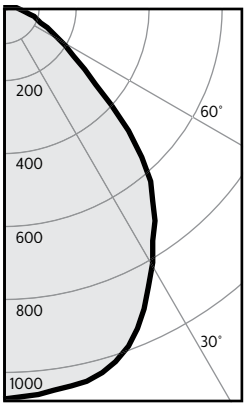
90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S10R830K22 • 24 W LED, 80 CRI, 3000 K

Candela Curves



Angle	Mean CP	Lumens
0	1027	
5	1017	97
10	1008	
15	992	279
20	947	
25	871	399
30	776	
35	685	429
40	597	
45	459	351
50	313	
55	223	204
60	161	
65	122	122
70	93	
75	70	74
80	46	
85	20	23
90	0	

Report[1]: S10R927K22BK

Output lumens:	1977 lms	Efficacy:	84.1 lm/w
Spacing Criterion:	1.1	CCT[3]:	3000 K
Beam Angle:	87°	CRI:	80 min
Input Watts[2]:	23.5 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	41	5.5'
6'	29	6.6'
7'	21	7.7'
8'	16	8.8'
9'	13	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	83.4	1.04
6'	54.8	0.68
7'	39.1	0.49
8'	32.6	0.41
9'	26.1	0.33

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

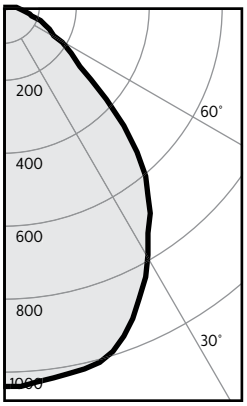
Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	104	98	100	95	96	92	88
2	102	95	90	85	93	84	90	82	87	80	76
3	95	86	79	73	84	72	81	71	79	70	67
4	88	77	70	64	76	63	74	63	71	62	59
5	82	70	62	56	69	56	67	56	65	55	53
6	76	64	56	50	63	50	61	50	60	49	47
7	71	59	51	45	58	45	57	45	55	45	43
8	66	54	46	41	53	41	52	41	51	41	39
9	62	50	43	37	49	37	48	37	47	37	35
10	59	47	39	34	46	34	45	34	44	34	32

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	775	39.2%
0-40	1203	60.9%
0-60	1758	88.9%
0-90	1977	100.0%

S10R835K22 • 24 W LED, 80 CRI, 3500 K

Candela Curves



Angle	Mean CP	Lumens
0	1000	
5	990	94
10	981	
15	966	271
20	922	
25	847	388
30	754	
35	664	416
40	579	
45	442	339
50	300	
55	212	195
60	153	
65	117	117
70	89	
75	67	71
80	44	
85	20	22
90	0	

Report[1]: 963GFR

Output lumens:	1913 lms	Efficacy:	80.0 lm/w
Spacing Criterion:	1.1	CCT[3]:	3500 K
Beam Angle:	87°	CRI:	80 min
Input Watts[2]:	23.9 W		

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	40	5.5'
6'	28	6.6'
7'	20	7.7'
8'	16	8.8'
9'	12	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	80.8	1.06
6'	53.0	0.70
7'	37.9	0.50
8'	31.6	0.41
9'	25.2	0.33

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	104	98	100	95	96	92	88
2	102	95	90	85	94	84	90	82	87	80	76
3	95	86	79	73	84	72	81	71	79	70	67
4	88	77	70	64	76	64	74	63	72	62	59
5	82	70	62	57	69	56	67	56	65	55	53
6	76	64	56	51	63	50	62	50	60	50	47
7	71	59	51	45	58	45	57	45	55	45	43
8	67	54	47	41	54	41	52	41	51	41	39
9	62	50	43	38	50	38	49	37	48	37	35
10	59	47	39	35	46	34	45	34	44	34	32

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	754	39.4%
0-40	1170	61.2%
0-60	1703	89.0%
0-90	1913	100.0%

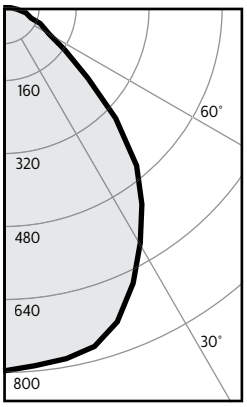
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S10R927K22 • 23 W LED, 90 CRI, 2700 K

Candela Curves



Angle	Mean CP	Lumens
0	794	
5	788	75
10	781	
15	769	216
20	732	
25	669	307
30	595	
35	525	328
40	453	
45	344	265
50	238	
55	162	149
60	116	
65	87	87
70	66	
75	49	52
80	32	
85	13	15
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	32	5.5'
6'	22	6.6'
7'	16	7.7'
8'	12	8.8'
9'	10	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	63.3	1.01
6'	41.5	0.66
7'	29.7	0.47
8'	24.7	0.39
9'	19.8	0.32

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio 0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	105	98	100	95	97	93	88
2	103	96	90	85	94	84	90	82	87	80	77
3	95	86	79	74	85	73	82	72	79	70	67
4	88	78	70	64	77	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	65	57	51	64	51	62	50	60	50	48
7	71	59	51	46	58	46	57	45	56	45	43
8	67	55	47	42	54	42	53	41	52	41	39
9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	46	35	46	35	45	35	33

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	598	40.0%
0-40	925	62.0%
0-60	1339	89.7%
0-90	1493	100.0%

Report[1]: S10R927K22BK

Output lumens:	1493 lms	Efficacy:	65.5 lm/w
Spacing Criterion:	1.1	CCT[3]:	2700 K
Beam Angle:	86°	CRI:	90 min
Input Watts[2]:	22.8 W		

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

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Signify Canada Ltd.
281 Hillmount Road,
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SPS-0462 REV A

CONOCO INTEGRATED LED SERIES

TYPE W1

JOB NAME: _____ FIXTURE TYPE: _____

BLE - _____ - _____ - _____ - _____ - _____ - _____ - _____ -
A B C D E F G

_____ - _____ - _____
H I J

Order Example: BLE - G - FCC12 - 600 - G11 - 980 - NA - NA - LED16 - 2700K - DL

A - MOUNTING STYLE

C	Cord Hung
CN	Chain Hung
F	Flush Mount
G	Gooseneck
S	Stem Mount

B - SHADE SIZE

CONOCO:

FCC10
FCC12
FCC15

C - SHADE FINISH

PORCELAIN FINISHES[2]:

150	Black
250	White
350	Vintage Green
355	Jadite
455	Cherry Red
550	Yellow
650	Bronze
750	Cobalt Blue
765	Delphite Blue
850	Graphite
950	Metallic Chrome

POWDER COAT FINISHES[3]:

100	Black
105	Textured Black
200	White
300	Dark Green
307	Emerald Green
311	Jadite
370	Mint
380	Chartreuse
390	Teal
400	Barn Red
420	Orange
470	Watermelon
480	Blush Pink
490	Magenta
495	Sherbet Orange
500	Buttery Yellow
570	Sunflower
600	Bronze
601	Chocolate
605	Rust
615	Oil-Rubbed Bronze
700	Royal Blue
705	Navy
710	Cobalt Blue
715	Delphite Blue

C - SHADE FINISH (CONTINUED)

POWDER COAT FINISHES[3]:

790	Lavender
800	Industrial Grey
805	Charcoal Granite
810	Graphite
975	Galvanized

NATURAL METALS[4]:

995	Raw Copper
996	Weathered Copper
997	Raw Brass
998	Weathered Brass
999	Oil-Rubbed Copper

D - MOUNTING

*Please Note: If Flush Mount [F] is selected in **Section A**, please select **NA***

NA	Not Applicable

CSA LISTED CORDS:

SBK	Standard Black
SWH	Standard White
CSB	Black Cloth
CSW	White Cloth
CMG	Grey Cloth
CSR	Red Cloth
CRZ	Red Chevron Cloth
CSBB	Black & Brown Cloth
CSRW	Red & White Cloth
CSGW	Gold & White Cloth
CSBG	Black & Gold Cloth
CSBW	Black & White Cloth
CSBP	Black & Pink Cloth
CSUW	Blue & White Cloth

CHAIN MOUNT OPTIONS:

CN36	3' of Chain[1]
CN48	4' of Chain[1]
CN60	5' of Chain[1]
CN72	6' of Chain[1]

GOOSENECK OPTIONS:

G1[1]	**G11[1]**	**G26[1]**
G2[1]	**G12[1]**	**G32**
G3[1]	**G13**	**G34[1]**
G4	**G14**	**G35[1]**
G5[1]	**G15**	**G36[1]**
G6	**G16[1]**	**G64[1]**
G7	**G17**	**G65[1]**
G8	**G22**	
G9	**G24**	
G10	**G25**	

D - MOUNTING (CONTINUED)

STEM MOUNT OPTIONS:

ST506	.5" Stem Mount, 6"[1]
ST512	.5" Stem Mount, 12"[1]
ST518	.5" Stem Mount, 18"[1]
ST524	.5" Stem Mount, 24"[1]
ST536	.5" Stem Mount, 36"[1]
ST548	.5" Stem Mount, 48"[1]
ST706	.75" Stem Mount, 6"
ST712	.75" Stem Mount, 12"
ST718	.75" Stem Mount, 18"
ST724	.75" Stem Mount, 24"
ST736	.75" Stem Mount, 36"
ST748	.75" Stem Mount, 48"

E - MOUNTING FINISH

*Please Note: See **Section C** for Finish Options. 980-Brushed Aluminum is also available for Gooseneck and Stem mounting styles. If a Porcelain shade finish is selected, mounting will be powder coat painted-to-match. Porcelain shade finishes are not available with a Natural Metal mounting finish*
(I) If Cord Hung [C], selection identifies canopy finish
(II) If Chain Hung [CN] Mounting Style, selection identifies chain and canopy finish. Natural Metals are not applicable
(III) If Stem Mount [S] Mounting Style, selection identifies stem and canopy finish
(IV) If Flush Mount [F] Mounting Style, selection identifies hex coupler and canopy finish. Natural Metals are not applicable

980	Brushed Aluminum

F - CORDS[5]

NA	Not Applicable

*Please Note: See **Section D** for all applicable CSA Listed Cord Options*

G - MOUNTING ACCESSORY

Please Note: Mounting Accessories below are only applicable with select Mounting Styles. Please refer to product listings on our website for further detail.

NA	None/Not Applicable
HSC	Hang Straight Canopy[1,6]
LDBPC	LED Decorative Backing Plate Cover[7]
LDCHX	LED Decorative Backing Plate Cover & Hex Cover[7]

H - LIGHT SOURCE

LED11	850 Lumen, 11W LED
LED16	1250 Lumen, 16W LED
LED27	2000 Lumen, 27W LED

I - COLOR TEMPERATURE

2700K	2700K, Warm White
3000K	3000K, Neutral White
3500K	3500K, Bright White
4000K	4000K, Cool White

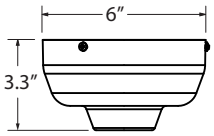
J - LED LENS

DL	Domed Lens
FL	Flat Lens

IMPORTANT: *(1) Not available in Natural Metals (2) All Porcelain Enamel finished shades feature a white interior and a black outer rim (3) All Powder Coat finished shades, Galvanized excluded, feature a white interior (4) Natural Metals have a longer estimated manufacturing time, please check the website for exact lead time. There are no returns accepted on Natural Metals (5) Only applicable if Chain Hung mounting style selected in Section A, select NA (6) Only applicable if Stem Mounting Style is selected in Section A (7) Not available with G36 Gooseneck option*

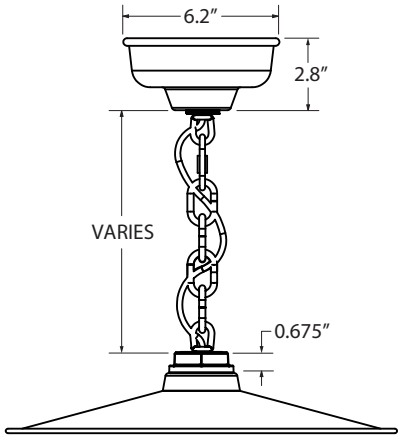
MOUNTING STYLE

HIGH LUMEN CANOPY FOR PENDANT & FLUSH MOUNT



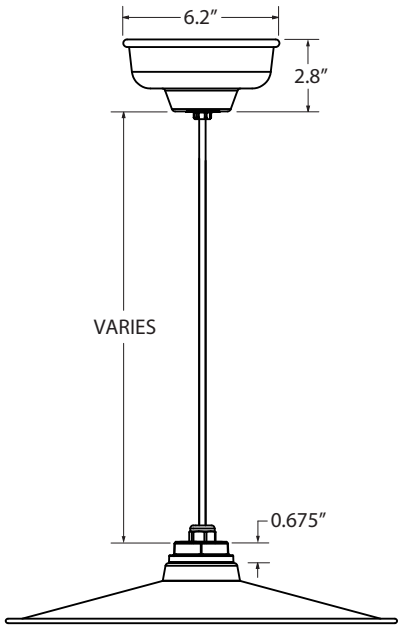
Required if LED 27 Light Source selected in Section H

CHAIN HUNG PENDANT (CN)



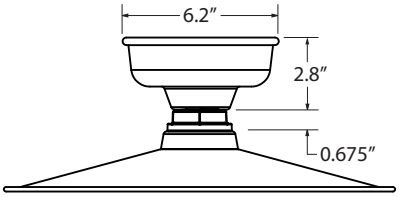
Canopy shown required if LED 11 & 16 Light Source selected in Section J

CORD HUNG PENDANT (C)



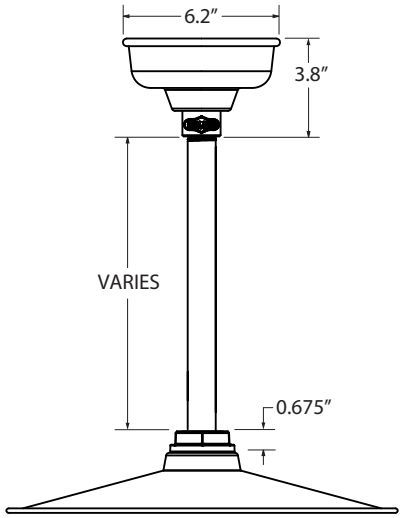
Canopy shown required if LED 11 & 16 Light Source selected in Section J

FLUSH MOUNT (F)



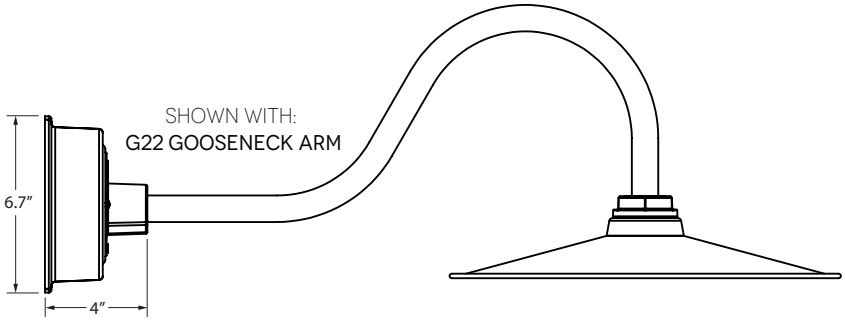
Canopy shown required if LED 11 & 16 Light Source selected in Section J

STEM MOUNT PENDANT (S)

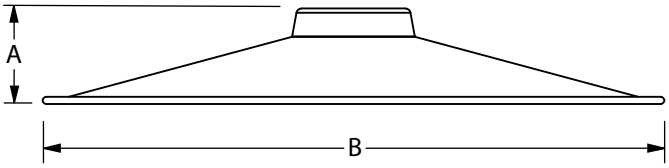


Canopy shown required if LED 11 & 16 Light Source selected in Section J

GOOSENECK (G)



LUMINAIRE DIMENSIONS



SHADE CODE	HEIGHT (A)	DIAMETER (B)
FCC10	1.75″	10″
FCC12	1.75″	12″
FCC15	2.25″	15″

SPECIFICATIONS

LED 11, 16, 27 LIGHT SOURCE

LED TYPE: CREE LMH2 MODULE

INITIAL LUMENS DELIVERED: UP TO 2000 LUMENS

L90(6K) > 36,300 HOURS

AVAILABLE CCT: 2700K, 3000K, 3500K, 4000K
Custom Temperatures Available upon Request

90+ CRI

2 STEP MACADAMS ELLIPSE

EFFICACY: UP TO 93 LPW
High Efficacy Available upon Request, Consult Factory for Additional Information

DIMMING

LED 11 & 16
Triac Dimming at 100-120VAC, Able to Dim down to 5%.
Dependent on Specific Dimmer.
0-10V & ELV Dimming Available upon Request.

LED 27
0-10V Dimming, Able to Dim down to 10%.
Dependent on Specific Dimmer.
Triac & ELV Dimming Available upon Request.

TRIAC & ELV DIMMING AT 230 VAC
Available by Request

COMPATIBLE DIMMERS
Consult Factory for Additional Information on Dimming

LED 27 ELECTRICAL/LED DRIVER

DRIVER TYPE: LMD400

DRIVE CURRENT: 940mA

POWER FACTOR > 0.95

EFFICIENCY: UP TO 81% TYPICAL

INPUT VOLTAGE: 120–277 VAC (SEE DIMMING SECTION)

CLASS 2 POWER SUPPLY

LED DRIVER LIFETIME: > 50,000 HOURS (@ 25 DEG C AMBIENT)

CONDUCTED AND RADIATED EMI
Compliant with FCC CFR Title 47 Part 15 Class B (120 VAC), Class A (277 VAC) and EN55015 (CISPR 15) at 230 VAC

CERTIFICATIONS, LISTINGS & WARRANTY

MADE IN THE USA
Manufactured and Hand-Crafted in Our 60,000 Square Foot Facility Located in Titusville, FL

CSA LISTED FOR WET LOCATIONS
Includes All Gooseneck, Stem and Flush Mounting Styles

CSA LISTED FOR DAMP LOCATIONS
Includes All Chain and Select Cord Hung Mounting Styles

LIMITED WARRANTY
For Additional Information on Our Limited Warranty, Please See Our Terms & Conditions

OPERATING TEMPERATURE
-30˚C to 40˚C

LED 11, 16 ELECTRICAL/LED DRIVER

DRIVER TYPE: LMD125

DRIVE CURRENT: 440mA

POWER FACTOR > 0.9

EFFICIENCY: UP TO 81% TYPICAL

INPUT VOLTAGE: 100–120 VAC (SEE DIMMING SECTION)

CLASS 2 POWER SUPPLY

LED DRIVER LIFETIME: > 50,000 HOURS (@ 25 DEG C AMBIENT)

CONDUCTED AND RADIATED EMI
Compliant with FCC CFR Title 47 Part 15 Class B (120 VAC), Class A (277 VAC) and EN55015 (CISPR 15) at 230 VAC

SHADE & FINISHES

POWDER COAT SHADE
Hand-Spun from High Purity 0.050" Thick 3003-O Temper Aluminum

PORCELAIN SHADE
Hand-Spun from 20 Gauge Sheet Metal

POWDER COAT FINISHES
Polyester Powder Coat Finishes Are Electro-Statically Applied and Thermocured

PORCELAIN FINISHES
Applied by Hand and Fired in a High Temperature Oven

COPPER
Hand-Spun from High Purity .032 Thick C11000-O60 ETP Copper

BRASS
Hand-Spun from High Purity .050" Thick C2600-O60 Brass

MOUNTING

STEM
1/2" Nominal (0.84" Actual) or 3/4" Nominal (1.05" Actual) Sch 40, 6063 Aluminum Mounting Stem. Custom Lengths Available upon Request.

GOOSENECK
1/2" Nominal (0.84" Actual) or 3/4" Nominal (1.05" Actual) Sch 40, 6063 Aluminum Gooseneck

CORD
Cord-Hung Pendants Include 7' of Standard Cord or 5' of Cloth Cord, +/- For Socket Orientation

CHAIN
4-Gauge Chain Complete with Quick Link for On-Site Adjustments to Chain's Length

MAX FIXTURE WEIGHT
10 lbs