IV.F.

690 Chesterfield Pkwy W • Chesterfield MO 63017-0760
Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

Architectural Review Board Staff Report

Project type:	Amended Site Development Section Plan
Meeting Date:	May 12, 2022
From:	Shilpi Bharti, Planner
Location:	17100 Chesterfield Airport Road
Description:	Chesterfield Commons , Lot 14 (Hawaiian Brothers)ASDSP: An Amended Site Development Section Plan, Landscape Plan, Lighting Plan and Amended Architectural Elevations for a fast food drive-up restaurant located on 1.94-acre tract of land located west of Chesterfield Commons Drive and south of Chesterfield Airport Road, zoned "C8"-Planned Commercial.

PROPOSAL SUMMARY

Hawaiian Brothers has submitted a Site Development Section Plan, Landscape Plan, Lighting Plan, and Amended Architectural Elevations for a proposed fast food, drive-thru restaurant located at 17100 Chesterfield Airport Road.

Proposed Development includes:

- 5,650 square feet of restaurant
- 95 parking spaces
- Stacking space for two drive-thru service
- Landscaping
- Lighting Plan
- Photometric Plan

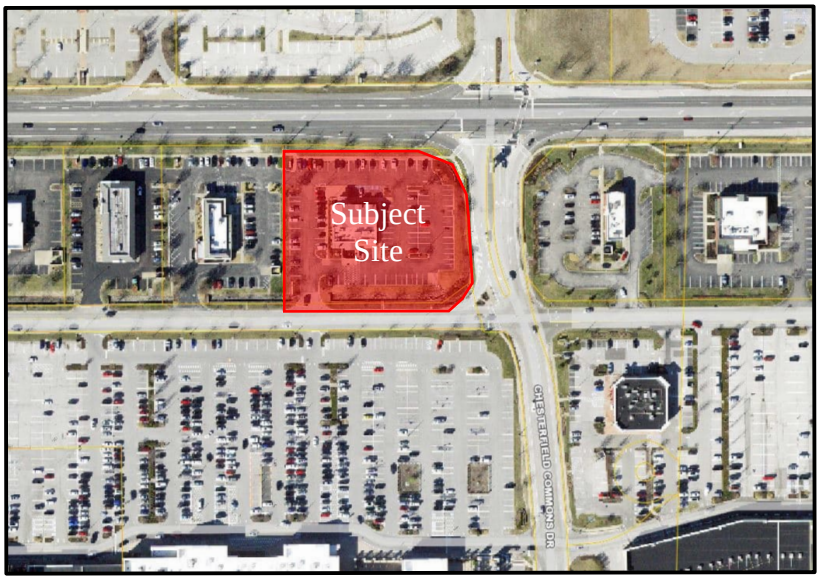


Figure 1: Subject Location

HISTORY OF SUBJECT SITE

The subject site was rezoned from NU and M3 to C8 under City of Chesterfield Ordinance 1344. In 2000, the site was developed following the City Ordinance number 1600. From 2000 to 2018 there have been many amendments to the Chesterfield Commons subdivision ordinance to allow flexibility in hours of operation and permitted use. The current ordinance governing the site is City Ordinance 3024 approved in 2018.

STAFF ANALYSIS

City of Chesterfield Unified Development Code has defined Site and Building design standards for building with different usage. The design standards for fast food drive thru restaurants are described in the below table.

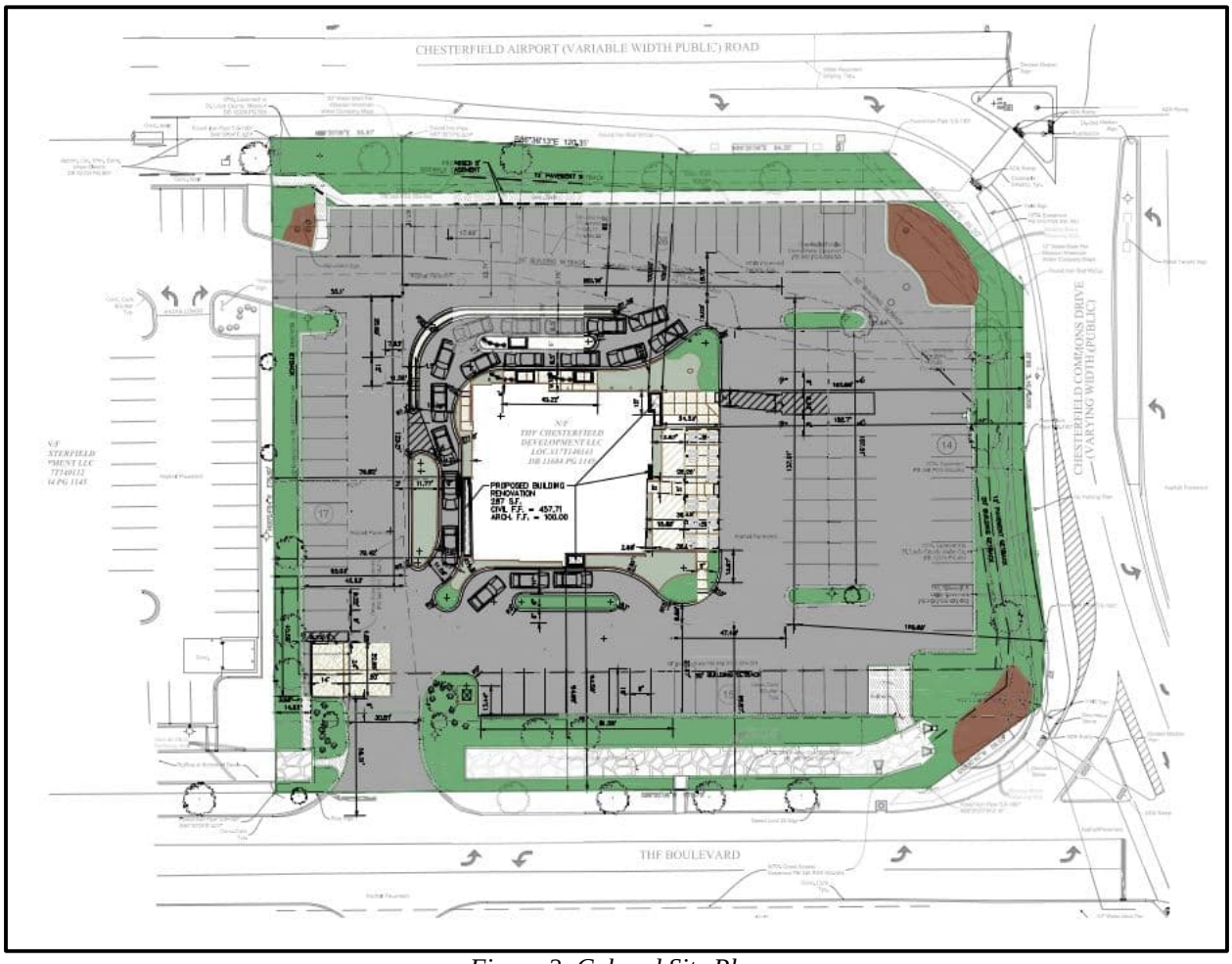


Figure 2: Colored Site Plan

Site Relationships, Circulation System and Access

The proposed building is 5,650 square feet on 1.94 acres of land. The subject site is Outlot 14 of Chesterfield Commons Subdivision. The renovated building is a single story building 24'-8" high. The neighboring structures surrounding the subject site are one story buildings. There are 95 parking spaces

provided on the site that exceeds the minimum parking requirement as per City of Chesterfield Unified Development Code. The site can be accessed through THF Boulevard.

Materials and Color

There are four main materials used on the exterior of this building. Tan brick, Brown wood longboard siding, and Solid gray longboard. A light house element is proposed on the north side facing Chesterfield Airport Road. This light element would have a decorative mural on the north side elevation that will light up at night and can be seen at all times of the day and night. A 6' tall trash enclosure is provided on the southwest side of the site near the access.

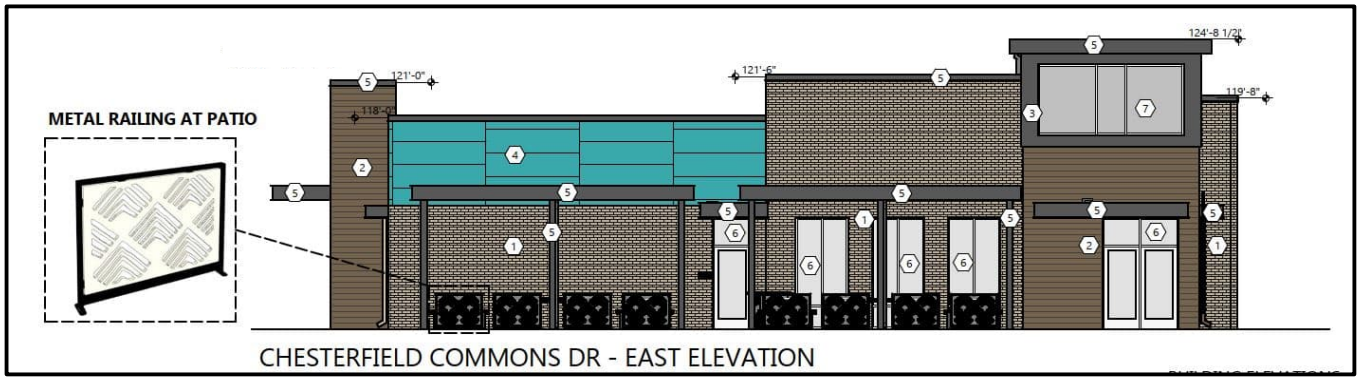


Figure 3: East side Elevation facing Chesterfield Commons Drive

Figure 4: North side Elevation facing Chesterfield Airport Road

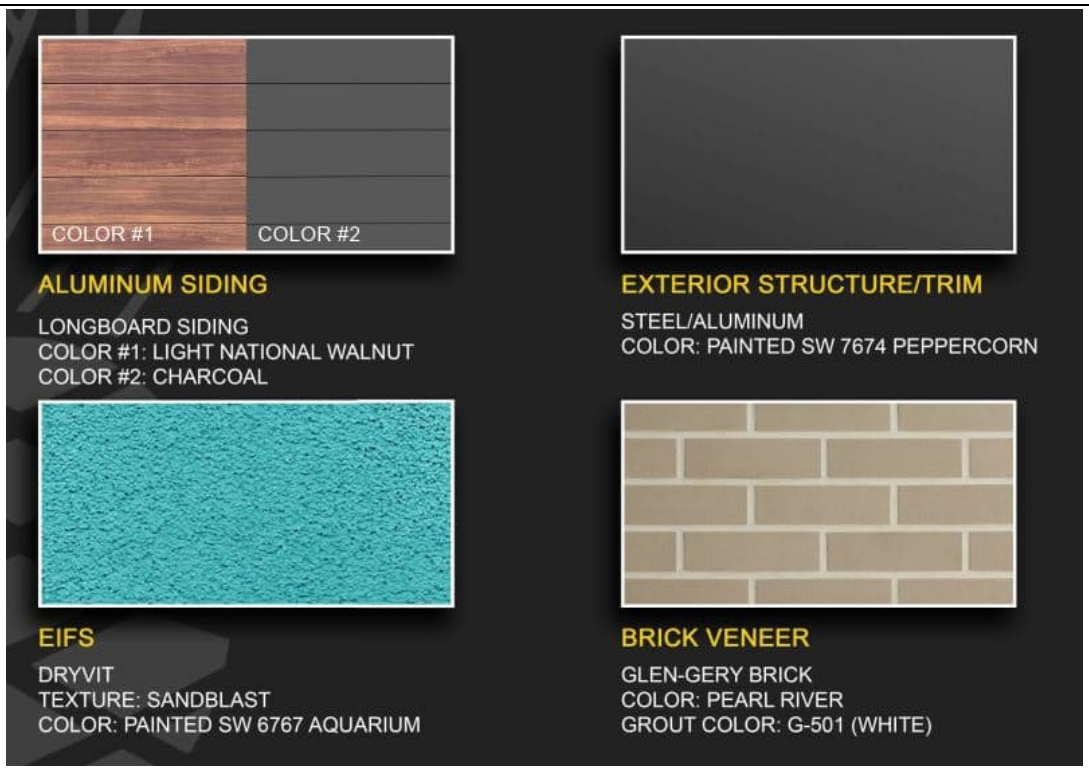


Figure 5: Material Samples

Lighting

There are eight (8) different types of light fixtures proposed for this development. There are six (6) pole lights and twenty-seven (27) down lights. Additionally, the building is illuminated by white LED lighting running along the roof.

Figure 6: Building lights

Landscaping

The proposed Landscape Plan of the site consists of three (3) different types of tree canopies, ten (10) different types of shrubs, two (2) types of perennials plant, and three (3) different types of groundcovers.

Rendering

Figure 8: View from Chesterfield Airport Road

DEPARTMENTAL INPUT

Be advised, this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

1) "I move to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, and Amended Architectural Elevations for 17100 Chesterfield Airport Road (Hawaiian Brothers), as presented, with a recommendation for approval (or denial)."

2) "I move to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, and Amended Architectural Elevations for 17100 Chesterfield Airport Road (Hawaiian Brothers) with a recommendation for approval with the following conditions…"

Attachments

1. Architectural Review Packet Submittal

Hawaiian Bros
Date: April 25, 2022
Project Number: 2164200

Architect's Statement

City of Chesterfield Design Guidelines

General Requirements for Site Design

- **Site relationship**

  The majority of the existing footprint will be utilized for this building remodel. The building area increased slightly to provide some exterior visual interest along with providing space for better interior circulation and exterior site circulation with drive thru windows. Originally the site had 127 parking stalls but due to the decrees in occupant count we removed close to 30 stalls this allowed up to add additional landscaping along with some patio spaces. The location of the front entrance has been relocated to the east elevation to be closer to the larger field of parking (where the majority of the patrons wanting to dine in will be coming from).

- **Circulation system and access**

  Changing the location of the front entrance allows us the create a better circulation path around the site. The site is set up to help guide you in a counter clockwise direction with easy access to the drive thru and online order pickup lines.
  Access to the site remains largely the same. Existing single access on the southwest potion of the property with access to the adjacent property at the northwest corner of the property. No new curb cuts to access roads will be required.

- **Topography**

  Site Topography will be only modified to provide drainage in new drive thru access drives. Landscape areas around the perimeter of the site will not be changed.

- **Retaining walls**

  No additional retaining walls were used on this project

General Requirements for Building Design

- **Scale**
  - **Building Scale**: The height of the building increases marginally. Material changes and canopies were used to reduce the building scale. The building height is to scale of the surrounding properties.
  - **Human Scale**: The use of sunshades, canopies, and decorative screens allows us to keep the human scale around the building façade
  - **Generic Scale**: by stepping the façade of the building this allowed up to change the material of the façade without change the scale of the building. There are roads on three sides of the building breaking up the scale from most adjacent buildings. To the west, the building height is close to scale of the remainder of buildings on the strip.
- **Design**

  The building is designed with all sides having interest as the public will be circulating around the entire building. There is no façade with less interest than the others. A "light house" element was added to the façade facing the main street. This light element would have a decretive mural. The goal is to have the mural lite up at night the decretive peace of art can be see at all times of the day and night.

- **Materials and Colors**

  There are four main materials used on the exterior of this building. Tan brick to match the development. Brown wood look longboard siding on building bump outs. Solid gray longboard on the tower element which will match the accent gray canopies/building trim. EIFS painted the Hawaiian Bros standard SW Aquarium. The EIFS will also have a pattern of reveals to create additional visual interest. The aquarium provides a pop of color to the exterior façade.

- **Landscape design and screening**

  Landscaping will be used around the building will be redone to be more in light with the Hawaiian bros brand. The existing mature trees around the perimeter of the site will main untouched. In addition, there will be an area of artificial turf next to the exterior dining for kids to play on.

- **Signage**

  All proposed signage will adhere to unified development code (UDC). Signage vendor to submit for separate signage permit.

- **Lighting**

  All proposed lighting will adhere to unified development code (UDC)

- **Existing structures**

  The building existing has incorporated the existing structure into one cohesive design.

Specific requirements for the Chesterfield Valley

- **Facades**

  Sunshades, pergolas, and other element were added to the façade to give the building depth. This also creates an opportunity to highlight different aspects of the building with exterior lighting and downlighting from the parapet cap.
  Trash enclosures has been screened. Materials of the trash enclosure match the materials on the building to create a more cohesive design.

- **Storage**

  There is no outdoor storage of goods, equipment or automobiles.

- **Utilities**

  All new site utilities will be installed underground

- **Parking**

  Location of the parking lot remains the same as the existing parking lot.

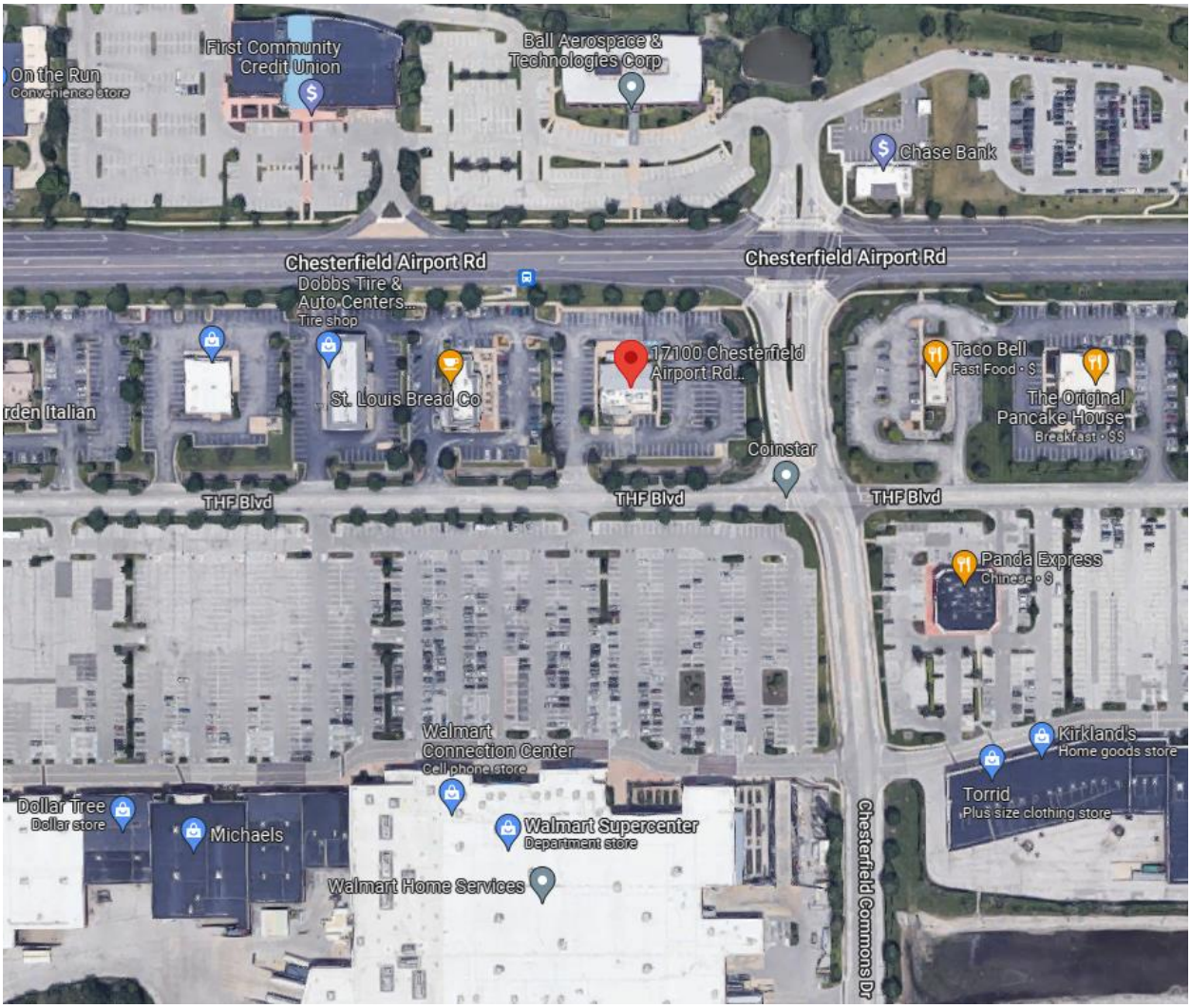
Sincerely,

Excel Engineering, Inc.

Jay Johnson
Principal

Property Adjacent Uses and Sites

Site Location (17100 Chesterfield Airport Road)



North (17107 Chesterfield Airport Road)

- Chesterfield Airport Road
- Office Building
- Business

East (17090 Chesterfield Airport Road)

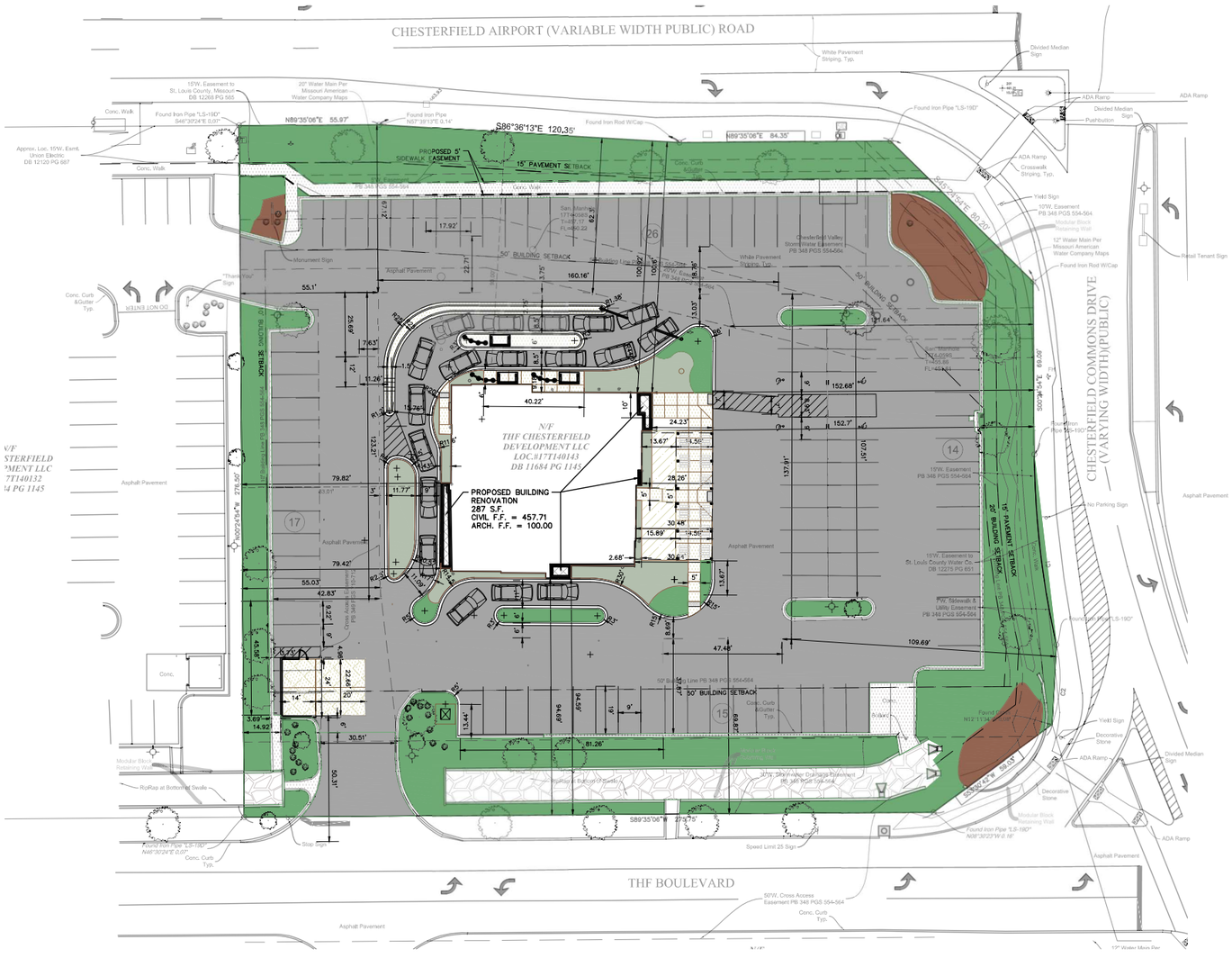
- Chesterfield Common Dr
- Taco Bell
- Quick Service Restaurant

South (100 THF Boulevard)

- THF Boulevard
- Parking Lot
- Walmart Shopping Center
- Retail

West: (17132 Chesterfield Airport Rd)

- St. Louis Bread Co
- Quick Service Restaurant



SITE INFORMATION:

LEGAL DESCRIPTION:	"Resubdivision of lots 1, 2, 3, 4, 5, & 7 of Chesterfield Commons"as recorded in Plat Book 349 Pages 710 through 712 of the St. Louis County Records.
PROPERTY AREA:	AREA = 84,299 S.F. (1.94 ACRES).
EXISTING ZONING:	C8 – PLANNED COMMERCIAL DISTRICT
PROPOSED ZONING:	C8 – PLANNED COMMERCIAL DISTRICT
PROPOSED USE:	QUICK–SERVE WITH DRIVE–THROUGH
AREA OF SITE DISTURBANCE:	3,548 S.F. (SURFACE COVER CHANGE)
SETBACKS: BUILDING:	FRONT = 50' SIDE (WEST) = 10' REAR = 50' SIDE (EAST) = 20'
PAVEMENT:	FRONT = 15' SIDE (EAST) = 15'
PROPOSED BUILDING HEIGHT:	24'8" (MAX. HEIGHT ALLOWED: 45')
PARKING REQUIRED:	15 SPACES PER 1,000 S.F. (85 SPACES REQ.) MAX. OF 102 PARKING STALLS
PARKING PROVIDED:	95 SPACES (4 H.C. ACCESSIBLE)
HANDICAP STALLS REQUIRED:	4, HANDICAP STALLS PROVIDED: 4

REGIONAL STORM WATER MANAGEMENT DESIGN: 90% IMPERVIOUS
SITE PROVIDED: 79.5%

HATCH KEY:

- ORGANIC MULCH
- ASPHALT
- SIDEWALK CONCRETE
- DUMPSTER CONCRETE
- LAWN
- MINERAL MULCH
- EXISTING CONCRETE
- RIP RAP

NORTH

1"= 20' SCALE 20' 0 20' 40' FEET

MSD PROJECT NUMBER: 22MSD-00116
BASE MAP INDEX: 17T

ARCHITECHTUAL REVIEW BOARD- SITE PLAN

EXCEL
ARCHITECTS • ENGINEERS • SURVEYORS
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100 Camelot Drive
Fond Du Lac, WI 54935
Phone: (920) 926-9800
www.EXCELENGINEER.com

PROJECT INFORMATION

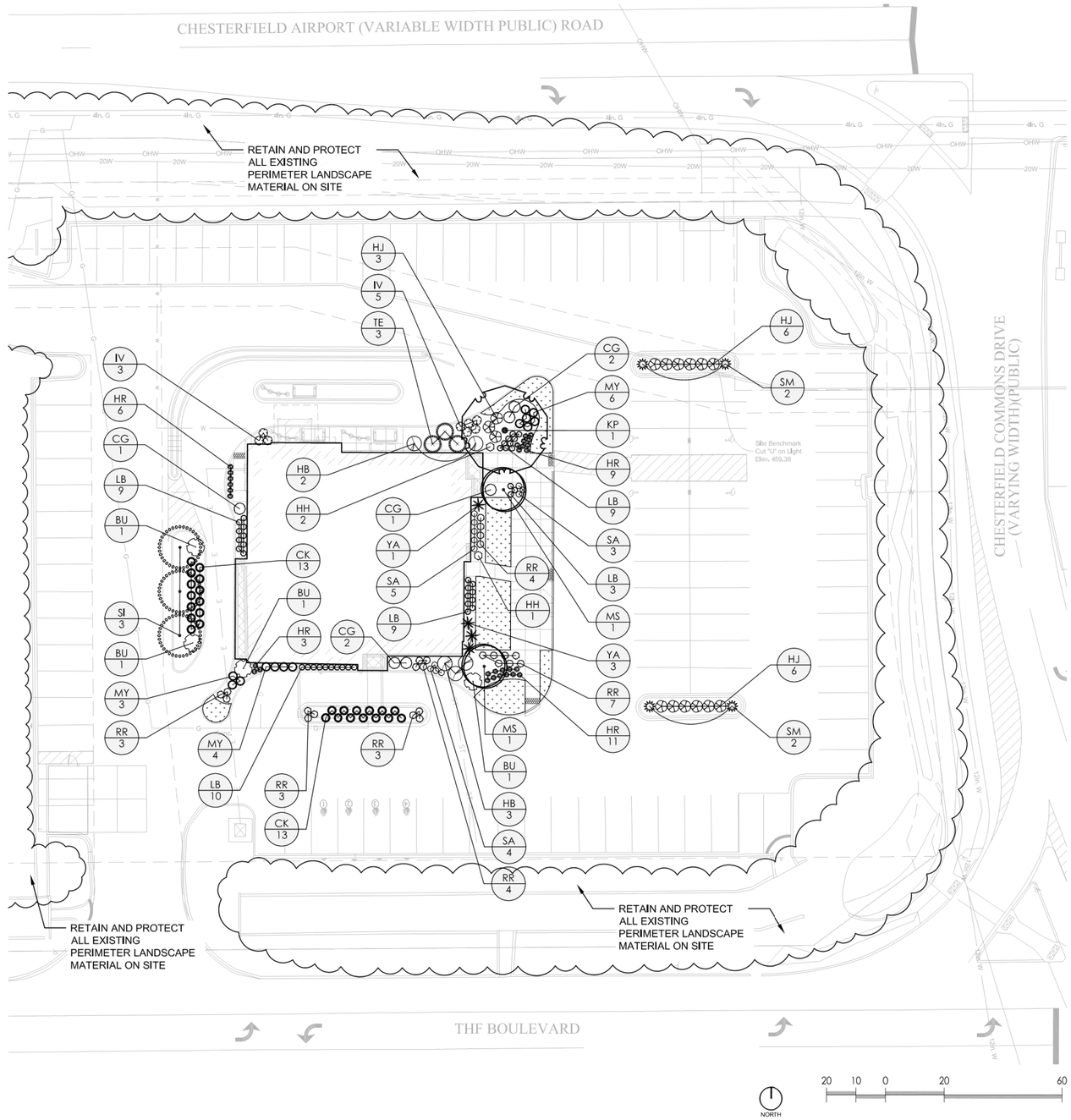
PROPOSED BUILDING RENOVATION
HAWAIIAN BROS - STR: 47
17100 CHESTERFIELD AIRPORT ROAD • CHESTERFIELD, MO 63005

PROFESSIONAL SEAL

SHEET DATES
SHEET ISSUE APR. 22, 2022
REVISIONS

JOB NUMBER
2164200

SHEET NUMBER
ARB



TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL
KP	1	KOELREUTERIA PANICULATA	GOLDEN RAIN TREE	B & B	
MS	2	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	B & B	2"CAL
SI	3	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK JAPANESE TREE LILAC	B & B	1.5"CAL
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
BU	4	BUDDLEJA X 'BLUE KNIGHT'	BLUE KNIGHT BUTTERFLY BUSH	5 GAL	
CG	6	CHAMAECYPARIS PISIFERA 'GOLDEN MOP'	GOLDEN MOP THREADLEAF SAWARA CYPRESS	3 GAL	
HB	5	HIBISCUS SYRIACUS 'BLUE CHIFFON'	BLUE CHIFFON ROSE OF SHARON	5 GAL	
HH	2	HIBISCUS X 'FIREBALL'	FIREBALL HARDY HIBISCUS	5 GAL	
HJ	15	HYDRANGEA PANICULATA 'JANE' TM	LITTLE LIME PANICLE HYDRANGEA	3 GAL	
IV	8	ITEA VIRGINICA	VIRGINIA SWEETSPIRE	3 GAL	
RR	24	ROSA X 'MEIGALPIO' TM	RED DRIFT GROUNDCOVER ROSE	3 GAL	
SM	4	SABAL MINOR	DWARF PALMETTO	3 GAL	
TE	3	TAXUS CUSPIDATA 'MONLOO' TM	EMERALD SPREADER JAPANESE YEW	5 GAL	
YA	4	YUCCA ALOIFOLIA	ALOE YUCCA	5 GAL	
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
CK	26	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	2 GAL	
LB	40	LEYMUS ARENARIUS 'BLUE DUNE'	BLUE DUNE LYME GRASS	2 GAL	
MY	13	MISCANTHUS SINENSIS 'YAKU JIMA'	YAKU JIMA EULALIA GRASS	3 GAL	
PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
HR	29	HEMEROCALLIS X 'RUBY STELLA'	RUBY STELLA DAYLILY	1 GAL	
SA	12	SEDUM X 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL	

*****ALL LANDSCAPE BEDS TO HAVE 2" DIA. COLORADO RIVER ROCK AT 4-6" DEPTH**

PLANTING NOTES

1. LANDSCAPE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS AND SECTIONS WITHIN THE LOCAL JURISDICTION'S STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. LOCATIONS OF ALL PLANT MATERIALS TO BE STAKED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING.
3. CONTRACTOR SHALL COORDINATE DELIVERY SCHEDULE AND PLANT TREES UPON ARRIVAL. ALL PLANTS OF THE SAME SPECIES SHALL BE OBTAINED FROM A SINGLE NURSERY SOURCE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES OF PLANT MATERIALS SHOWN.
4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO SEED AND RESTORE ALL DISTURBED AREAS BACK TO ORIGINAL OR FINISH GRADE ELEVATIONS, INCLUDING EQUIPMENT MATERIAL STORAGE AREA AND STAGING AREAS ADJACENT TO SITE.
5. PLANT TREES AFTER FINAL GRADES ARE ESTABLISHED AND PRIOR TO PLANTING OF ALL OTHER PLANTS.
6. ALL EXISTING PLANTS SHOWN ON PLAN ARE IN APPROXIMATE LOCATIONS. ADJUST NEW PLANTING BED AND TREE LOCATIONS TO AVOID CONFLICT WITH EXISTING PLANTINGS. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT ON ANY NECESSARY ADJUSTMENTS.
7. THE LANDSCAPE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT INJURY TO ALL PLANT MATERIAL DURING DIGGING, HANDLING, PLANTING AND MAINTENANCE OPERATIONS.
8. ALL TREE AND SHRUB LANDSCAPE BEDS SHALL HAVE WEED-PREVENTION FABRIC INSTALLED. WEED PREVENTION FABRIC SHALL COVER THE ENTIRE LANDSCAPE BED.
9. CANOPY TREES AND EVERGREEN TREES PLANTED IN A LAWN OR GRASS SETTING SHALL RECEIVE A MINIMUM OF 4-6" COLORADO RIVER ROCK STONE MULCH UNLESS OTHERWISE SPECIFIED. MULCH AROUND TREES SHALL BE EXTENDED OUT AS FAR AS THE HOLE DUG FOR PLANTING AND SHALL BE PLACED IN SUCH A WAY AS TO FORM A BOWL AT THE BASE OF THE TRUNK ALLOWING WATER TO COLLECT MORE EFFECTIVELY.
10. REMOVE ALL WIRE, TWINE, OR BURLAP FROM THE ROOT BALLS OF TREES PRIOR TO PLANTING.
11. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ANY TREES THAT HAVE BECOME TILTED WITHIN ONE YEAR FROM DATE OF INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF IDENTIFICATION TAGS, CONTAINERS, AND BURLAP ON ALL PLANT MATERIAL PRIOR TO COMPLETION OF THE CONTRACT.
12. THE REQUIRED LANDSCAPING, BOTH EXISTING AND PROPOSED, SHALL BE MAINTAINED FOR THE LIFE OF THE CERTIFICATE OF OCCUPANCY.
13. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES OF PLANT MATERIALS AND IMPROVEMENTS SHOWN. ACTUAL QUANTITIES AND MEASUREMENTS ON DRAWINGS TAKE PRECEDENT OVER TABLE QUANTITIES. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

JBC
JEFFREY L. BRUCE & COMPANY
landscape architecture | planning | urban design
252 NW Executive Way
Lee's Summit, MO 64063
P: 816.842.8999
F: 816.842.8885
www.jlbruce.com

PROJECT:
HAWAIIAN BROTHERS
17100 CHESTERFIELD AIRPORT ROAD
CHESTERFIELD, MO 63005

ISSUE:
03/02/2022 LANDSCAPE PLAN SUBMISSION

PROFESSIONAL SEAL:
STATE OF MISSOURI
DAVID ALLEN STOKES JR.
NUMBER PLA-2016033877
PROFESSIONAL LANDSCAPE ARCHITECT

DRAWING TITLE:
LANDSCAPE PLAN

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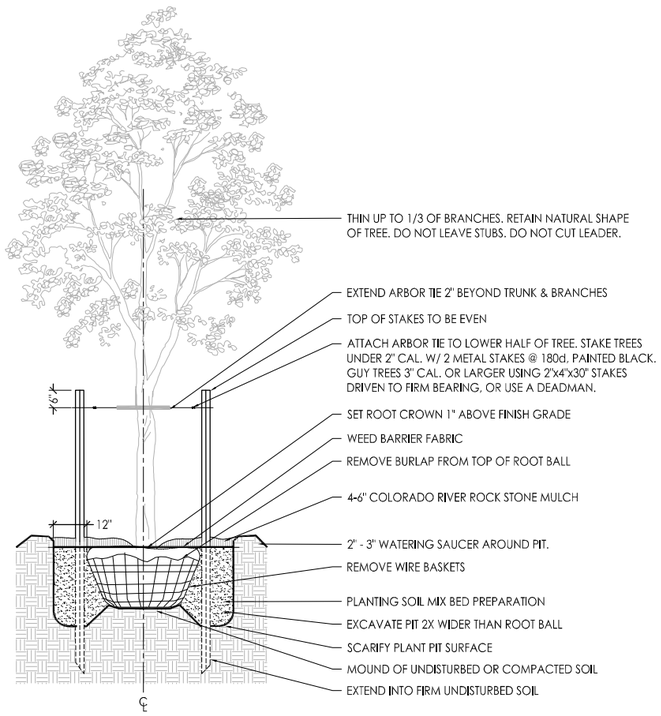
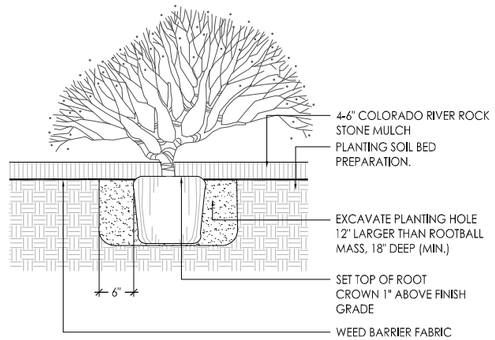


1 TREE PLANTING DETAIL
1/2" = 1' - 0"



2 SHRUB PLANTING DETAIL
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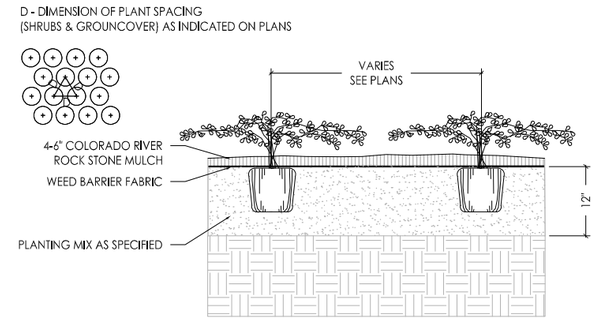

3 GRASSES/PERENNIAL PLANTING DETAIL
1" = 1' - 0"

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CHESTERFIELD, MO 63005

ISSUE:
03/02/2022 LANDSCAPE PLAN SUBMISSION

PROFESSIONAL SEAL:
STATE OF MISSOURI
DAVID ALLEN STOKES JR.
NUMBER PLA-2010010977
LANDSCAPE ARCHITECT

DRAWING TITLE:
LANDSCAPE DETAILS

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DATE: 03/02/22 DRAWN BY: LCD

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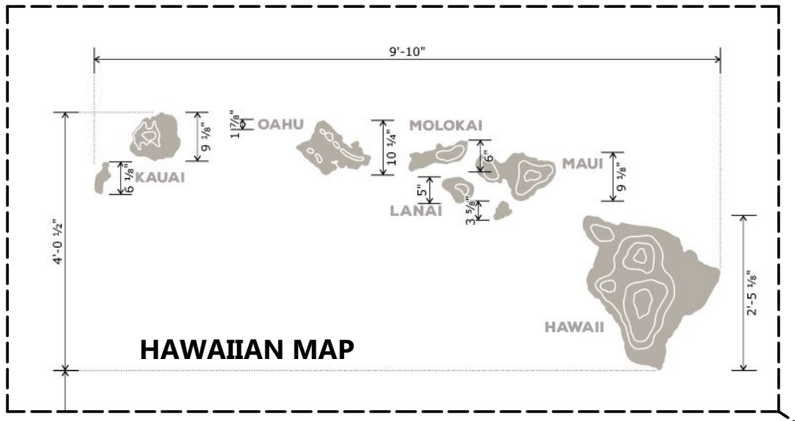
L101



HAWAIIAN MAP

EXTERIOR MATERIAL KEY

1 THIN BRICK
MFR: GLEN-GERY
STYLE: EXTRUDED
TEXTURE: SMOOTH
COLOR: PEARL RIVER

2 WOOD LOOK ALUMINUM SIDING & SOFFIT (LONGBOARD)
PRODUCT: LONGBOARD 6" - V-GROOVE SIDING PANEL
MATERIAL: HEAVY GAUGE ALUMINUM
COLOR: LIGHT NATIONAL WALNUT

3 ALUMINUM SIDING & SOFFIT (LONGBOARD)
PRODUCT: LONGBOARD 6" - V-GROOVE SIDING PANEL
MATERIAL: HEAVY GAUGE ALUMINUM
COLOR: CHARCOAL

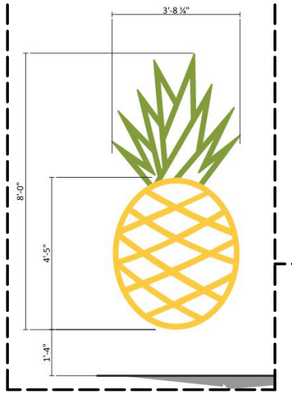
4 EIFS
MFR: DRYVIT
TEXTURE: SANDBLAST
COLOR: SW 6767 AQUARIUM (PAINTED)

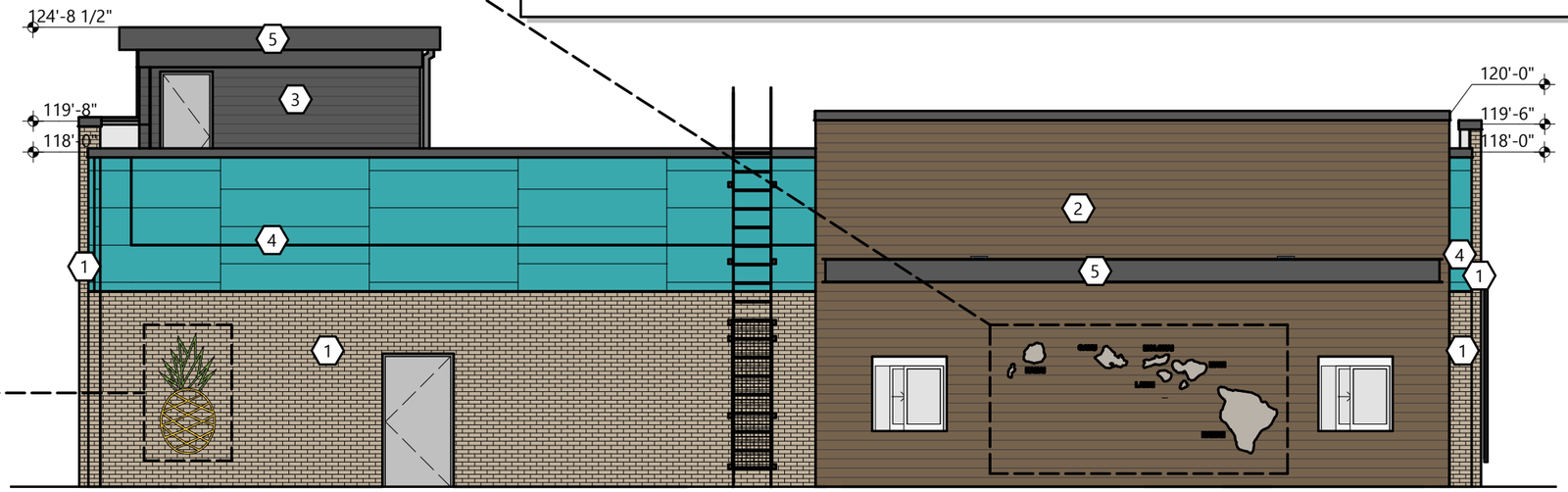
5 STEEL/METAL COPING
METAL COPING MATERIAL: PAC CLAD 24 GAUGE STEEL
COLOR: PRIMED AND FIELD PAINTED (SW 7674 PEPPERCORN)

6 GLAZING
PPG INDUSTRIES, INC.
SOLARBAN 60 GRAY

7 GLAZING
PPG INDUSTRIES, INC.
SOLARBAN 60 CLEAR

PINEAPPLE ART

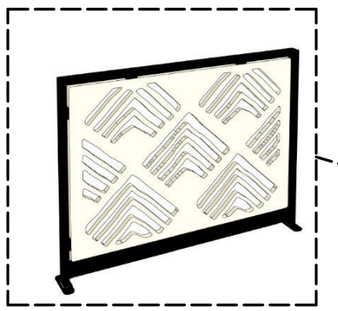


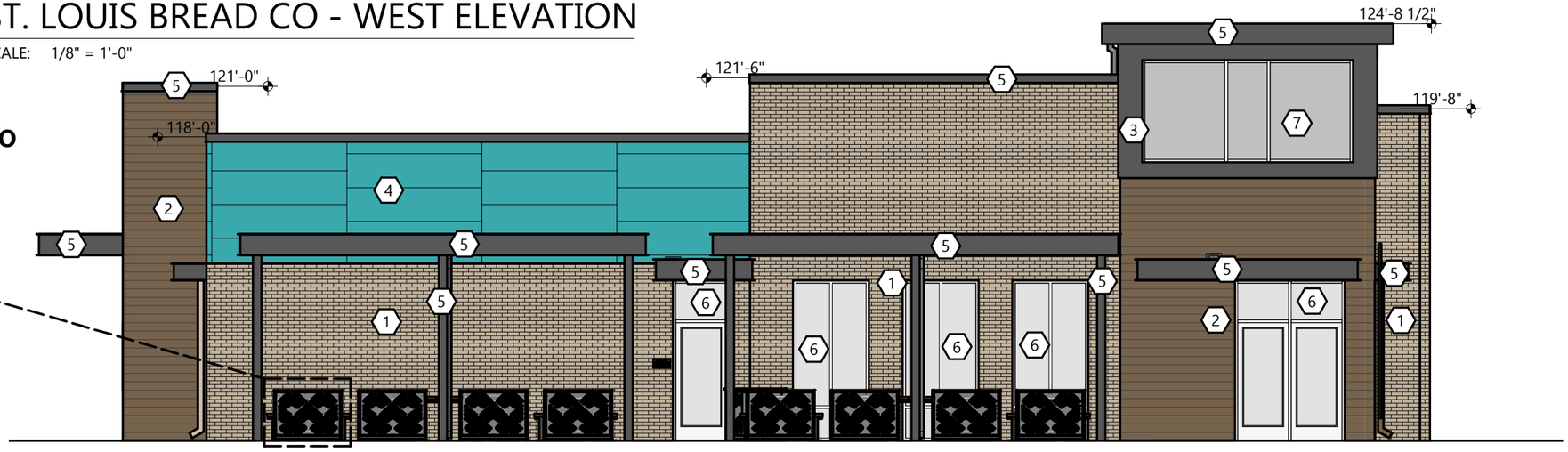


ST. LOUIS BREAD CO - WEST ELEVATION

SCALE: 1/8" = 1'-0"

METAL RAILING AT PATIO





CHESTERFIELD COMMONS DR - EAST ELEVATION

SCALE: 1/8" = 1'-0"

BUILDING ELEVATIONS

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Fond Du Lac, WI 54935
Phone: (920) 926-9800
www.EXCELENGINEER.com

PROJECT INFO

PROPOSED BUILDING RENOVATION
HAWAIIAN BROS - STR: 47
17100 CHESTERFIELD AIRPORT ROAD • CHESTERFIELD, MO 63005

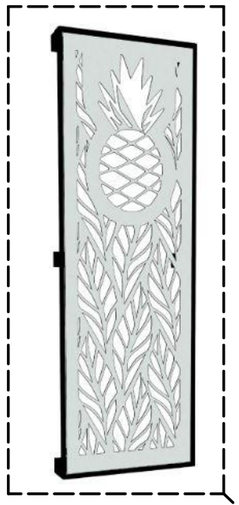
PRELIMINARY DATES
APR. 22, 2022
APR. 29, 2022

NOT FOR CONSTRUCTION

JOB NUMBER
2164200

SHEET NUMBER
A20

WALL HUNG METAL SCREEN



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STYLE: EXTRUDED — COLOR: PEARL RIVER

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MATERIAL: HEAVY GAUGE ALUMINUM
COLOR: CHARCOAL

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MFR: DRYVIT
TEXTURE: SANDBLAST
COLOR: SW 6767 AQUARIUM (PAINTED)

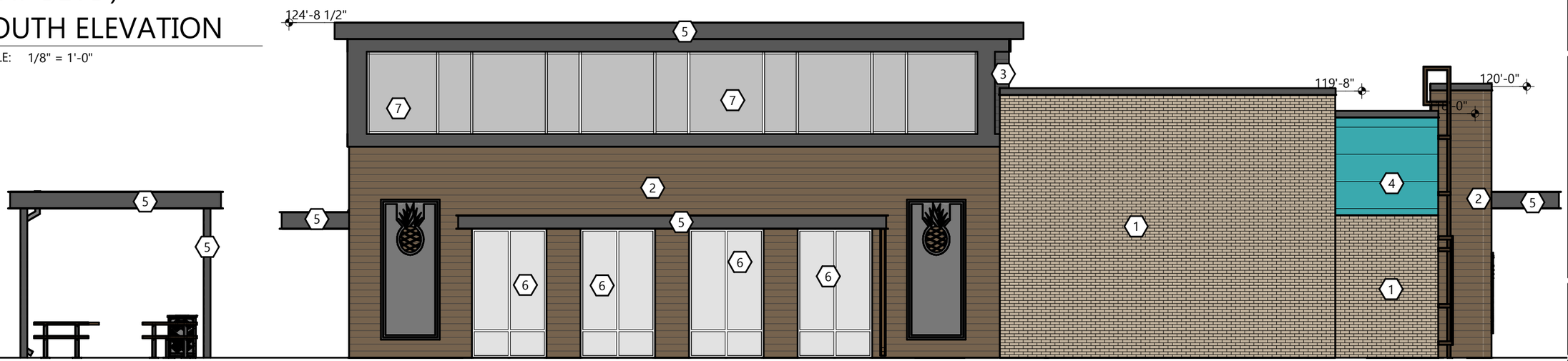
5 **STEEL/METAL COPING**
METAL COPING MATERIAL: PAC CLAD 24 GAUGE STEEL
COLOR: PRIMED AND FIELD PAINTED (SW 7674 PEPPERCORN)

6 **GLAZING**
PPG INDUSTRIES, INC.
SOLARBAN 60 GRAY

7 **GLAZING**
PPG INDUSTRIES, INC.
SOLARBAN 60 CLEAR

(THF BLVD)
SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



(CHESTERFIELD AIRPORT ROAD)
NORTH ELEVATION

SCALE: 1/8" = 1'-0"

BUILDING ELEVATIONS

EXCEL
ARCHITECTS • ENGINEERS • SURVEYORS
Always a **Better Plan**
100 Camelot Drive
Fond Du Lac, WI 54935
Phone: (920) 926-9800
www.EXCELENGINEER.com

PROJECT INFO

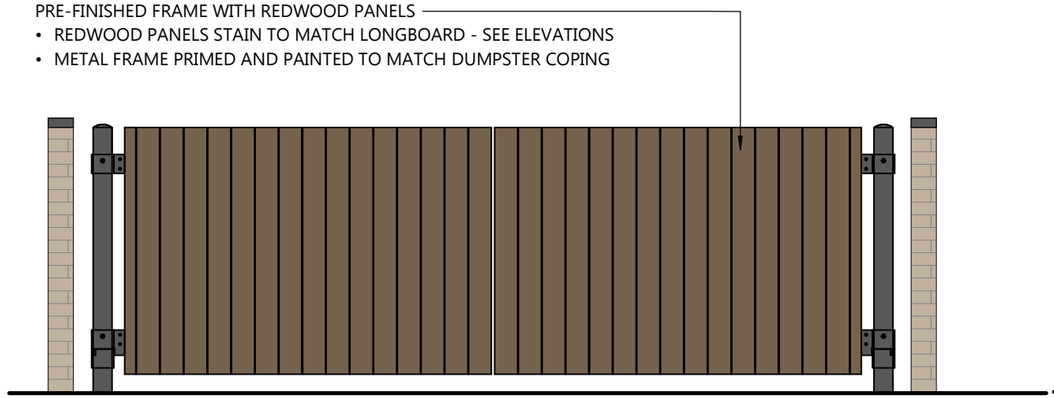
PROPOSED BUILDING RENOVATION
HAWAIIAN BROS - STR: 47
17100 CHESTERFIELD AIRPORT ROAD • CHESTERFIELD, MO 63005

PRELIMINARY DATES
APR. 22, 2022
APR. 29, 2022

NOT FOR CONSTRUCTION

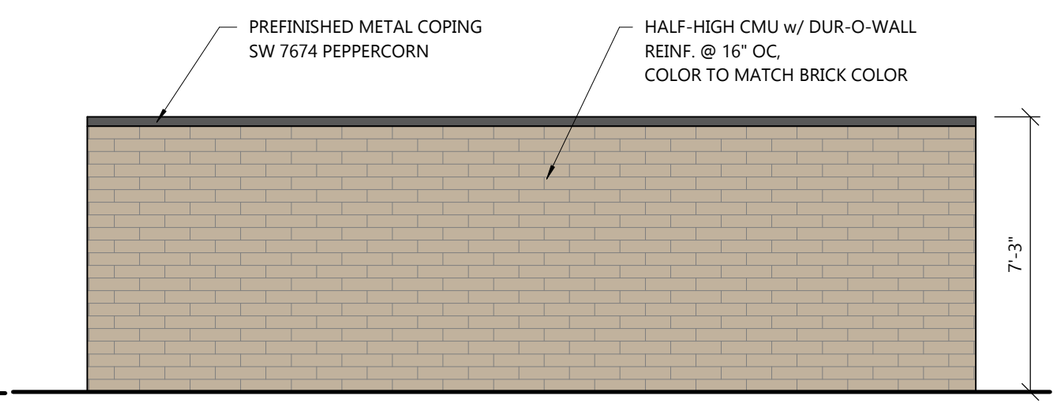
JOB NUMBER
2164200

SHEET NUMBER
A21



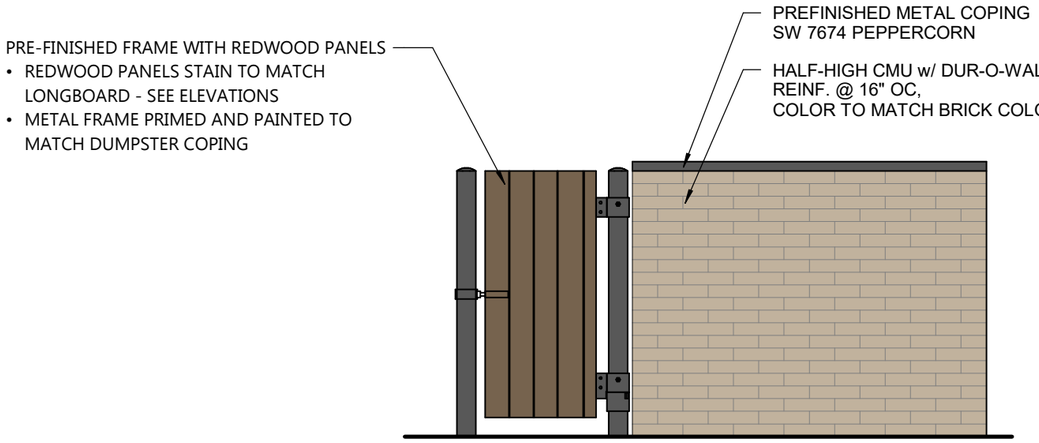
FRONT ELEVATIONS

SCALE: 1/4" = 1'-0"



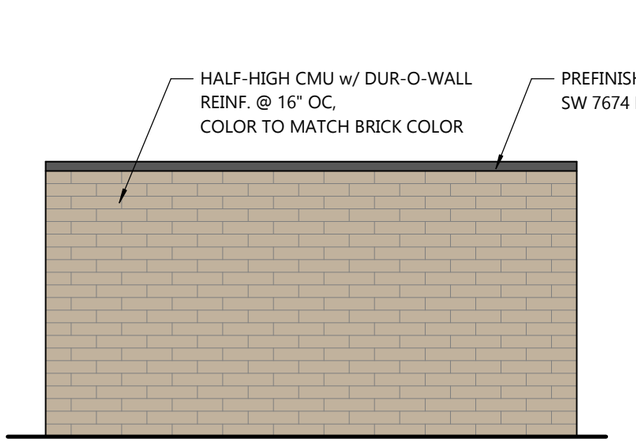
BACK ELEVATION

SCALE: 1/4" = 1'-0"



RIGHT ELEVATION

SCALE: 1/4" = 1'-0"



LEFT ELEVATION

SCALE: 1/4" = 1'-0"

EXTERIOR DUMPSTER ELEVATIONS

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Fond Du Lac, WI 54935
Phone: (920) 926-9800
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PROJECT INFO

PROPOSED BUILDING RENOVATION
HAWAIIAN BROS - STR: 47
17100 CHESTERFIELD AIRPORT ROAD • CHESTERFIELD, MO 63005

PRELIMINARY DATES

APR. 22, 2022

NOT FOR CONSTRUCTION

JOB NUMBER

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SHEET NUMBER

A22

EXTERIOR RENDRINGS

HAWAIIAN BROS™

EXTERIOR RENDRINGS

HAWAIIAN BROS™

EXTERIOR RENDRINGS

HAWAIIAN BROS™

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EXTERIOR RENDRINGS

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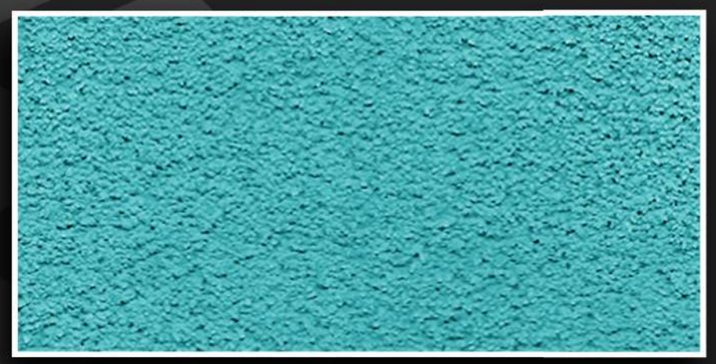
SAMPLE BOARD

TYPICAL EXTERIOR FINISHES

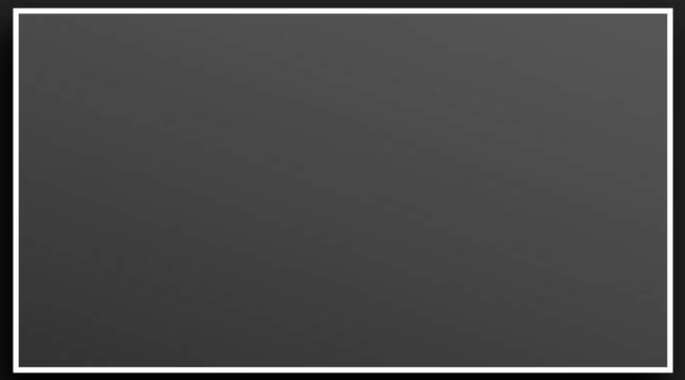
ALUMINUM SIDING

LONGBOARD SIDING
COLOR #1: LIGHT NATIONAL WALNUT
COLOR #2: CHARCOAL



EIFS

DRYVIT
TEXTURE: SANDBLAST
COLOR: PAINTED SW 6767 AQUARIUM



EXTERIOR STRUCTURE/TRIM

STEEL/ALUMINUM
COLOR: PAINTED SW 7674 PEPPERCORN

BRICK VENEER

GLEN-GERY BRICK
COLOR: PEARL RIVER
GROUT COLOR: G-501 (WHITE)

HAWAIIAN BROS™

prescolite

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LITEISTRY

FEATURES

- 6" architectural LED downlight delivering 600 – 9000 lm
- Five beam distributions from 0.3 to 1.1 Spacing Criteria
- Quiet reflector appearance with superior 50° optical cutoff
- 2700K – 5000K, 80+ and 90+ CRI options
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Variety of dimming protocol options including 0–10V, DALI, DMX, Lutron Forward Phase, and EcoSystem
- NX Distributed Intelligence™ wired and wireless controls capability available

WET LOCATION

C SA US

ENERGY STAR

BUY AMERICAN SOLUTIONS

See Certification Specifications

RELATED PRODUCTS

- LTR-6RD-RFH Retrofit
- LTR-6RD SpectraSync
- 6" LITEISTRY Family
- LTR-6RD PowerHUBB

SERVICE PROGRAMS

STOCK

QS

CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE

SPECIFICATIONS

CONSTRUCTION

- Standard Non-IC. Chicago Plenum and IC options
- Painted black durable steel platform with pre-installed bar hangers
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection from driver compartment allows easy installation
- Light Engine connections use plenum rated (CMP) cable

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 spun aluminum reflector, self-flanged
- Flush Mount flange option with mud-in ring available
- 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 hours (TM-21)
- Universal voltage 120V–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker free 0-10V dimming with 1% or <1% performance
- DALI, DMX, and Lutron Forward Phase and EcoSystem options
- NX or Lutron Vive control options available
- Integral and remote controller and battery pack options available
- Refer to additional spec sheets for information on SpectraSync™ Tunable White or Dim-to-Warm or PowerHUBB™ PoE enabled solutions

INSTALLATION

- Accommodates ceiling thickness up to 2" (SL, ML, HL); up to 1.25" (VL, XL)
- Universal adjustable mounting brackets also accept 0.5" EMT conduit or 1.5" or 0.75" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6).
- Light Engine/Driver fully serviceable from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- For ≥70L: Marked spacing required 36" fixture center to center; 36" fixture center to building member; 0.5" above fixture
- Suitable for wet locations, covered ceiling. EM/ EMR: Suitable for damp locations.
- EM/EMR: Certified under UL 924 standard for emergency lighting and power equipment
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- ENERGY STAR® certified models available (See list and additional information on page 8)
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/6/2020. See Buy American Solutions.

WARRANTY

- 5 year warranty
- See HLI Standard Warranty for additional information

KEY DATA	
Lumen Range	600-9000
Wattage Range	8-99
Efficacy Range (LPW)	94-104*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	65-825 (120V)

*Based on Specular, 35K, 80 CRI

HUBBELL Lighting

prescolite

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

= Service Program

STOCK QS

Click icons for a list of Stocked or Quick-Ship options

ORDERING GUIDE

Example: LTR–6RD–H–SL10L–DM1–LTR–6RD–T–SL35K8MD–S

CATALOG #

HOUSING

LTR-6RD-H –

Aperture/Shape/Function	
LTR-6RD-H	6" Round Downlight New Construction Housing

–

Lumen Package		Lumen Output	
SL	Standard Lumen	**06L**	600
		10L	1000
		15L	1500
ML	Medium Lumen	**20L**	2000
		25L	2500
		30L	3000
HL	High Lumen	**35L**	3500
		40L	4000
		45L	4500
VL	Very High Lumen	**50L**	5000
		55L	5500
		60L	6000
XL	Extra high Lumen [12]	**70L**	7000
		80L	8000
		90L	9000

–

Driver Options	
DM1	0-10V Dimming to 1% [11]
DM01	0-10V Dimming to < 1% [2]
DMX	DMX with RDM dimming to < 0.1% [2]
DALI	DALI Dimming to 1% [2]
2DM	Lutron Hi-Lume 2-wire Dimming to 1% (120V Forward Phase only) [2]
EDM	Lutron Hi-Lume EcoSystem Dimming to 1% [2]

Control Options	
NXE	NX Enabled, Dual SmartPorts [3]
NXWE	NX Wireless Enabled [3]
NXWD	NX Wireless Enabled, Dual SmartPorts [3]
LV	Lutron Vive Enabled, 0-10V (requires 0-10V driver)
LVE	Lutron Vive Enabled, EcoSystem, (requires EDM)

Voltage	
Standard 120-277V	
34	347V [6]

Housing Options	
CP	Chicago Plenum [7, 9]
IC	IC rated [8, 9]
EM	Emergency Battery Pack with integral test switch and indicator light [9]
EMR	Emergency Battery Pack with remote test switch and indicator light [9]
DTS	Device Transfer Switch with Dimming Bypass [9, 13]
GTD	Generator Transfer Device [9]
F	Fuse [9]

TRIM

LTR-6RD-T –

Aperture/Shape/Function	
LTR-6RD-T	6" Round Downlight Light Engine/Trim Assembly

–

Lumen Package	
SL	Standard Lumen
ML	Medium Lumen
HL	High Lumen
VL	Very High Lumen
XL	Extra High Lumen [12]

CCT	
27K	2700K
30K	3000K
35K	3500K
40K	4000K
50K	5000K [1]

CRI	
8	80+CRI
9	90+CRI

Distribution	
VNR	Very Narrow (0.3 SC/18°)
NR	Narrow (0.5 SC/29°)
MD	Medium (0.6 SC/37°)
WD	Wide (0.9 SC/59°)
XW	Extra Wide (1.1 SC/76°)

TRIM CONTINUED

–

Reflector Finish	
Finish not applicable with painted reflectors (WC or BC)	
S	Specular
SS	Semi-Specular
MFC	American Matte™
VS	Softglow®
VSS	SoftSheen™

Reflector Color	
Standard Clear	
CG	Champagne Gold
BL	Black
LW	Light Wheat
PW	Pewter
WC	Painted White Cone and Flange
BC	Painted Black Cone and Flange

Flange Color Options	
Standard matches reflector color	
WT	White Flange [4]
BT	Black Flange [4]

Lower Trim Options	
EM	Pre-punched reflector for EM integral test switch and indicator
FM	Flush Mount Mud-in Ring [10]
WF	Wide Flange

Reflector Options	
AM	Antimicrobial Coating [5]

Accessories		
☐	**B24**	Set of two (2) 24" bar hangers for T-bar ceilings
☐	**B6**	Set of two bar hangers for ceiling joist up to 24" centers
☐	**FMR6-R**	Flush Mount Mud-In Ring, 6" Round
☐	**LiteGear**	LiteGear® Inverter, 125VA-250VA
☐	**LPS Series**	LightPower Micro-Inverter, 20VA-55VA
☐	**MOR6-R-WH**	Metal Oversized Ring, 6" Round, White (10" outside diameter)
☐	**MOR6-R-BL**	Metal Oversized Ring, 6" Round, Black (10" outside diameter)
☐	**LTR-SCA6-__**	Sloped Ceiling Adapter, 6", White [14]

Notes:

1 5000K available in 80+ CRI only.
2 2DM, EDM, DMX available in 10L-35L. DM01, DALI not available on >55L.
3 NX requires DM1 driver option, not available on >60L.
4 WT not needed for WC, BT not needed for BC.
5 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
6 347V requires DM1 driver option; available 10L - 60L not available with Controls, F, GTD, DTS, EM, EMR.
7 CP available up to 20L; not available with DMX, Controls, or EMR options.
8 IC available up to 20L; not available with Controls options.
9 Housing options (except Fuse) not available in combination.
10 Flush Mount Flange (FM) requires FMR accessory (sold separately).
11 DM1 on >60L is 0-10V to 5% dimming.
12 XL (70L-90L) require marked spacing. See line art for more details.
13 DTS available with DM1, DM01, DALI, or EDM; not available with LVE.
14 Specify slope angle 5°-35° in 5° increments. Not available with EM, WF, or FM options.

HUBBELL Lighting

prescolite

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

CONTROLS

NX Distributed Intelligence™ Lighting Controls:

Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.

NX DISTRIBUTED™ INTELLIGENCE

NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming
NX Networked – Wired								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R[1]
NX Networked – Wireless								
NXWE[2]	N/A	Yes	Yes	No	No	Yes	Yes	No[3]
NX Networked – Wired/Wireless								
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R[1,3]

1 NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network

2 Programming via App requires factory assistance

3 To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

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	806	7.8	103
		Narrow	717	7.8	92
		Medium	746	7.8	96
		Wide	691	7.8	89
		Extra Wide	665	7.8	85
10L	1000	Very Narrow	1288	12.0	107
		Narrow	1146	12.0	96
		Medium	1192	12.0	99
		Wide	1104	12.0	92
		Extra Wide	1063	12.0	89
15L	1500	Very Narrow	1851	18.7	99
		Narrow	1623	18.7	87
		Medium	1712	18.7	92
		Wide	1586	18.7	85
		Extra Wide	1527	18.7	82
20L	2000	Very Narrow	2355	22.6	104
		Narrow	2263	22.7	100
		Medium	2265	22.6	100
		Wide	2180	22.7	96
		Extra Wide	2139	22.7	94
25L	2500	Very Narrow	3093	27.7	112
		Narrow	2751	27.7	99
		Medium	2860	27.7	103
		Wide	2650	27.7	96
		Extra Wide	2551	27.7	92
30L	3000	Very Narrow	3686	34.3	107
		Narrow	3278	34.3	96
		Medium	3409	34.3	99
		Wide	3158	34.3	92
		Extra Wide	3040	34.3	89

prescolite

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PERFORMANCE DATA TABLE CONTINUED

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

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
35L	3500	Very Narrow	4477	43.0	104
		Narrow	3942	43.0	93
		Medium	4140	43.0	96
		Wide	3836	43.0	89
		Extra Wide	3693	43.0	86
40L	4000	Very Narrow	5117	51.6	99
		Narrow	4552	51.6	88
		Medium	4733	51.6	92
		Wide	4385	51.6	85
		Extra Wide	4221	51.6	82
45L	4500	Very Narrow	5371	55.1	98
		Narrow	4775	55.1	87
		Medium	4967	55.1	90
		Wide	4602	55.1	84
		Extra Wide	4430	55.1	80
50L	5000	Very Narrow	5740	48.7	118
		Narrow	5105	48.7	105
		Medium	5308	48.7	109
		Wide	4918	48.7	101
		Extra Wide	4734	48.7	97
55L	5500	Very Narrow	6365	53.9	119
		Narrow	5662	53.9	105
		Medium	5887	53.9	109
		Wide	5454	53.9	101
		Extra Wide	5250	53.9	97
60L	6000	Very Narrow	7090	60.7	117
		Narrow	6299	60.7	104
		Medium	6557	60.7	108
		Wide	6075	60.7	100
		Extra Wide	5848	60.7	96
70L	7000	Very Narrow	8266	72.1	115
		Narrow	7353	72.1	102
		Medium	7645	72.1	106
		Wide	7083	72.1	98
		Extra Wide	6819	72.1	95
80L	8000	Very Narrow	9301	84.3	111
		Narrow	8273	84.3	98
		Medium	8602	84.3	102
		Wide	7970	84.3	95
		Extra Wide	7672	84.3	91
90L	9000	Very Narrow	10549	98.1	108
		Narrow	9383	98.1	96
		Medium	9756	98.1	99
		Wide	9039	98.1	92
		Extra Wide	8701	98.1	89

HUBBELL Lighting

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LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: LOCATION:

TYPE: PROJECT:

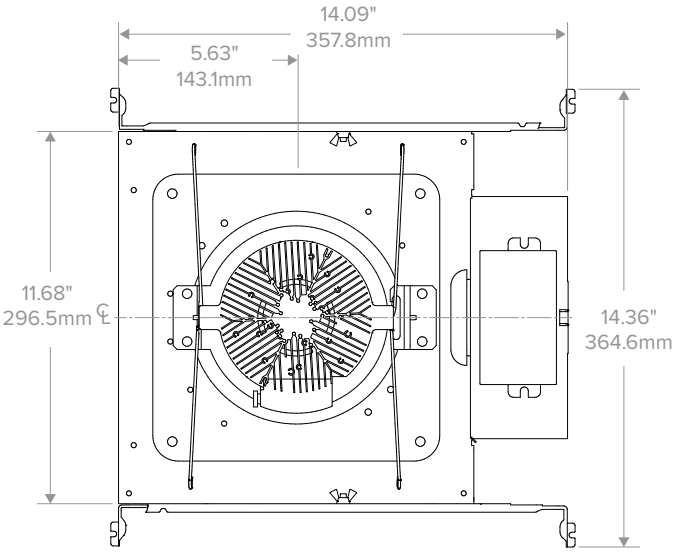
CATALOG #:

DIMENSIONS

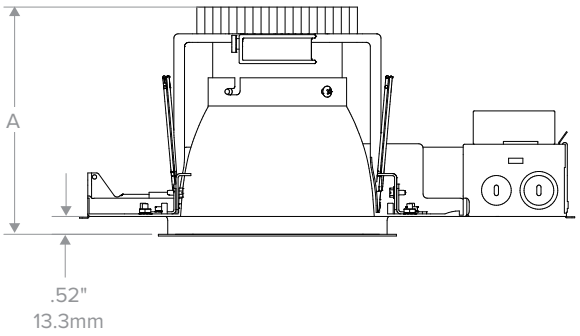
Lumen Package	"A"
06L-15L	5.90" (149.9mm)
20L-30L	6.68" (169.7mm)
35L-40L	7.86" (199.6mm)
50L-60L	9.04" (229.6mm)

Dimensional Data		
Aperture		5.75" (146.1mm)
Flange:	Standard	7.00" (177.8mm)
	Flush Mount	6.54" (166.0mm)
Ceiling Cutout:	Standard	6.50" (165.1mm)
	Flush Mount	6.75" (171.5mm)
Ceiling Thickness:	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.



Top View

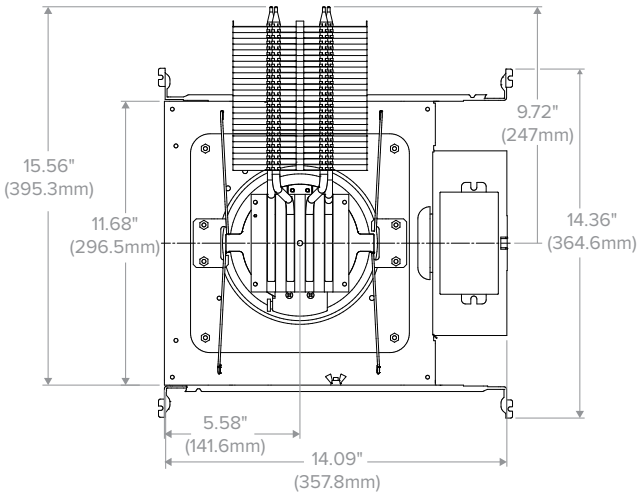


LTR-6RD-H (06L - 60L) New Construction

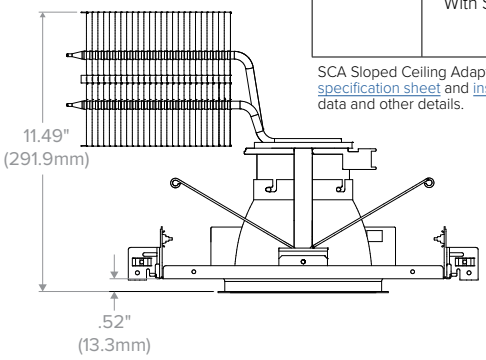
Dimensional Data		
Aperture		5.75" (146.1mm)
Flange:	Standard	7.00" (177.8mm)
	Flush Mount	6.54" (166.0mm)
Ceiling Cutout:	Standard	6.50" (165.1mm)
	Flush Mount	6.75" (171.5mm)
Ceiling Thickness:	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.

Marked spacing required:
36" fixture center to center;
36" center to building member;
0.50" above fixture



Top View



LTR-6RD-H (70L - 90L) New Construction

HUBBELL Lighting

prescolite

LTR-6RD

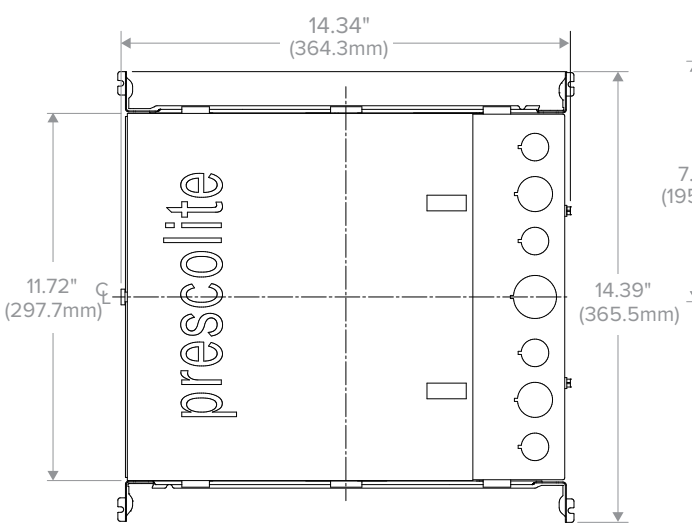
LITEISTRY 6" ROUND DOWNLIGHT

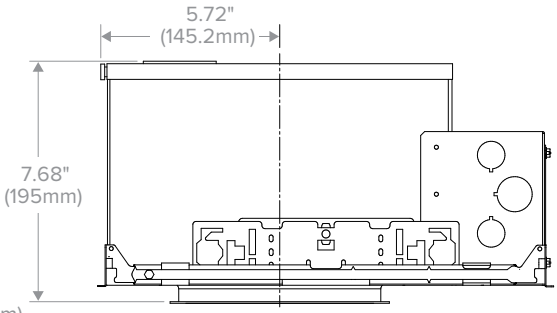
DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

DIMENSIONS CONTINUED





LTR-6RD-IC

Dimensional Data		
Aperture		5.75" (146.1mm)
Flange:	Standard	7.00" (177.8mm)
	Flush Mount	6.54" (166.0mm)
Ceiling Cutout:	Standard	6.50" (165.1mm)
	Flush Mount	6.75" (171.5mm)
Ceiling Thickness:	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.

PHOTOMETRY

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8VNR-S

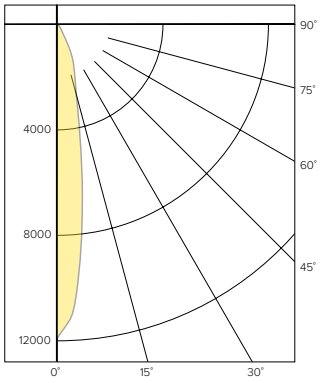
LUMINAIRE DATA

Test No.	**19.00588**
Description	**2000 lm, Very Narrow, 3500K, 80 CRI**
Delivered Lumens	**2355**
Watts	**22.6W**
Efficacy	**104.0**
Mounting	**Recessed**
Spacing Criterion	**0.3**
Beam Angle (FWHM)	**18**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2290	97.2
0-60	2355	100.0
0-90	2355	100.0
0-180	2355	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	11881
5	9399
15	2776
25	1236
35	255
45	74
55	0
65	0
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6247
55°	0
65°	0
75°	0
85°	0

*Candela/Square Meter

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8NR-S

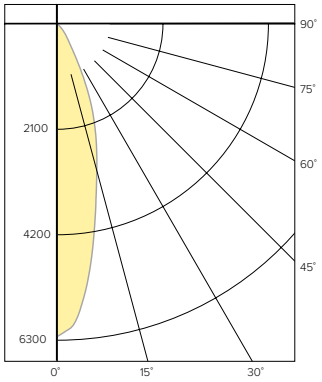
LUMINAIRE DATA

Test No.	**20.01439**
Description	**2000 lm, Narrow, 3500K, 80 CRI**
Delivered Lumens	**2263**
Watts	**22.1W**
Efficacy	**103.0**
Mounting	**Recessed**
Spacing Criterion	**0.5**
Beam Angle (FWHM)	**29**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2185	96.6
0-60	2260	99.9
0-90	2263	100.0
0-180	2263	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	6222
5	5603
15	3035
25	1354
35	348
45	83
55	5
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6712
55°	498
65°	271
75°	221
85°	0

*Candela/Square Meter

IES FILE

HUBBELL Lighting

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

PHOTOMETRY CONTINUED

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8MD-S

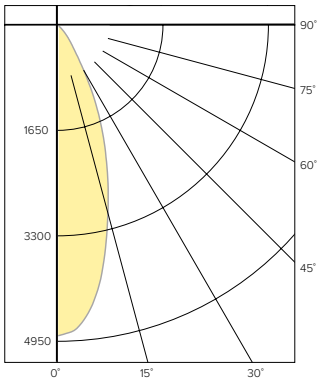
LUMINAIRE DATA

Test No.	**19.00587**
Description	**2000 lm, Medium, 3500K, 80 CRI**
Delivered Lumens	**2265**
Watts	**22.6W**
Efficacy	**100.0**
Mounting	**Recessed**
Spacing Criterion	**0.6**
Beam Angle (FWHM)	**37**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2171	95.9
0-60	2262	99.9
0-90	2265	100.0
0-180	2265	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	4851
5	4619
15	3007
25	1450
35	386
45	99
55	6
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	8357
55°	624
65°	282
75°	231
85°	0

*Candela/Square Meter

IES FILE

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8WD-S

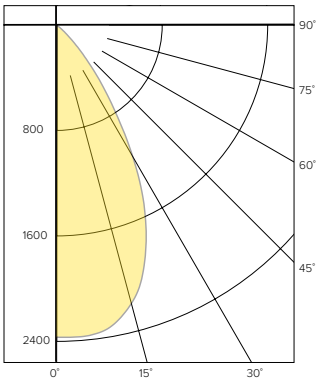
LUMINAIRE DATA

Test No.	**19.00585**
Description	**2000 lm, Wide, 3500K, 80 CRI**
Delivered Lumens	**2180**
Watts	**22.6W**
Efficacy	**96.1**
Mounting	**Recessed**
Spacing Criterion	**0.9**
Beam Angle (FWHM)	**59**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2014	92.4
0-60	2176	99.8
0-90	2180	100.0
0-180	2180	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2368
5	2371
15	2189
25	1591
35	726
45	177
55	10
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	14942
55°	1041
65°	424
75°	231
85°	0

*Candela/Square Meter

IES FILE

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8XW-S

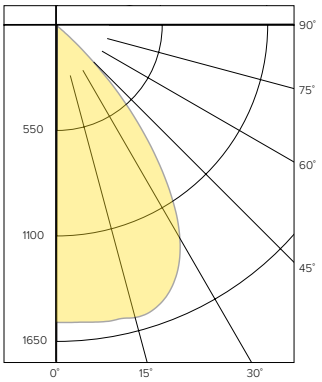
LUMINAIRE DATA

Test No.	**19.00586**
Description	**2000 lm, Extra Wide, 3500K, 80 CRI**
Delivered Lumens	**2139**
Watts	**22.7W**
Efficacy	**94.4**
Mounting	**Recessed**
Spacing Criterion	**1.1**
Beam Angle (FWHM)	**76**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1875	87.7
0-60	2134	99.8
0-90	2139	100.0
0-180	2139	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1547
5	1552
15	1576
25	1461
35	1007
45	301
55	9
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	25409
55°	937
65°	424
75°	231
85°	0

*Candela/Square Meter

IES FILE

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.

prescolite

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

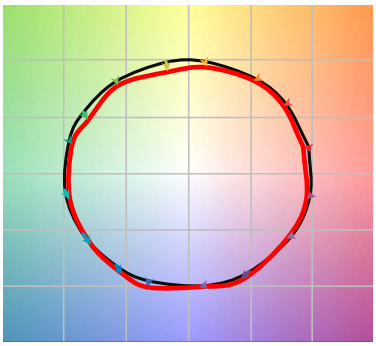
DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI

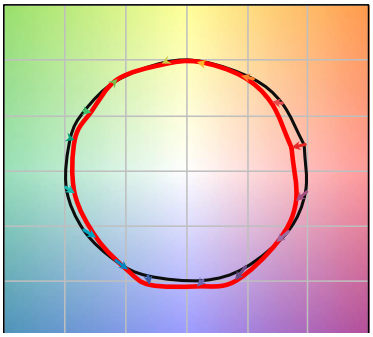


Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 90 CRI

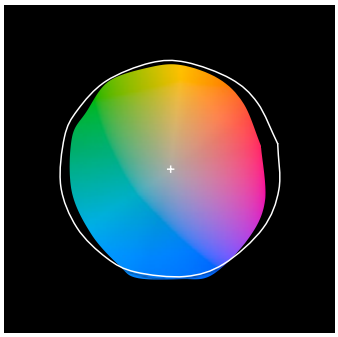
TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R_f	84	88
R_g	95	95
CCT (K)	3411	3419
D_{UV}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R_a	84	93
CIE R_g	11	62

COLOR VECTOR GRAPHIC 3500K, 80 CRI



Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 80 CRI



HUBBELL Lighting

prescolite

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

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

* Values for DM1 option shown, values for other dimming options may vary.

WATTAGE DATA		
Lumen Output	Nominal Lumens	WATTAGE
06L	600	8
10L	1000	12
15L	1500	19
20L	2000	23
25L	2500	28
30L	3000	35
35L	3500	43
40L	4000	52
45L	4500	55
50L	5000	49
55L	5500	54
60L	6000	61
70L	7000	72
80L	8000	85
90L	9000	99

* Wattage may vary based on configuration and options selected

ADDITIONAL INFORMATION

DIMMING COMPATIBILITY CHART		
Dimming Driver	Manufacturer	Web Link
DM1 /DM01	Lutron DVTV	http://bit.ly/11jSvZg
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9
EDM	Lutron	http://bit.ly/1vtjHAl
2DM	Lutron	http://bit.ly/1S4WjXK

DMX

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

Central Inverters

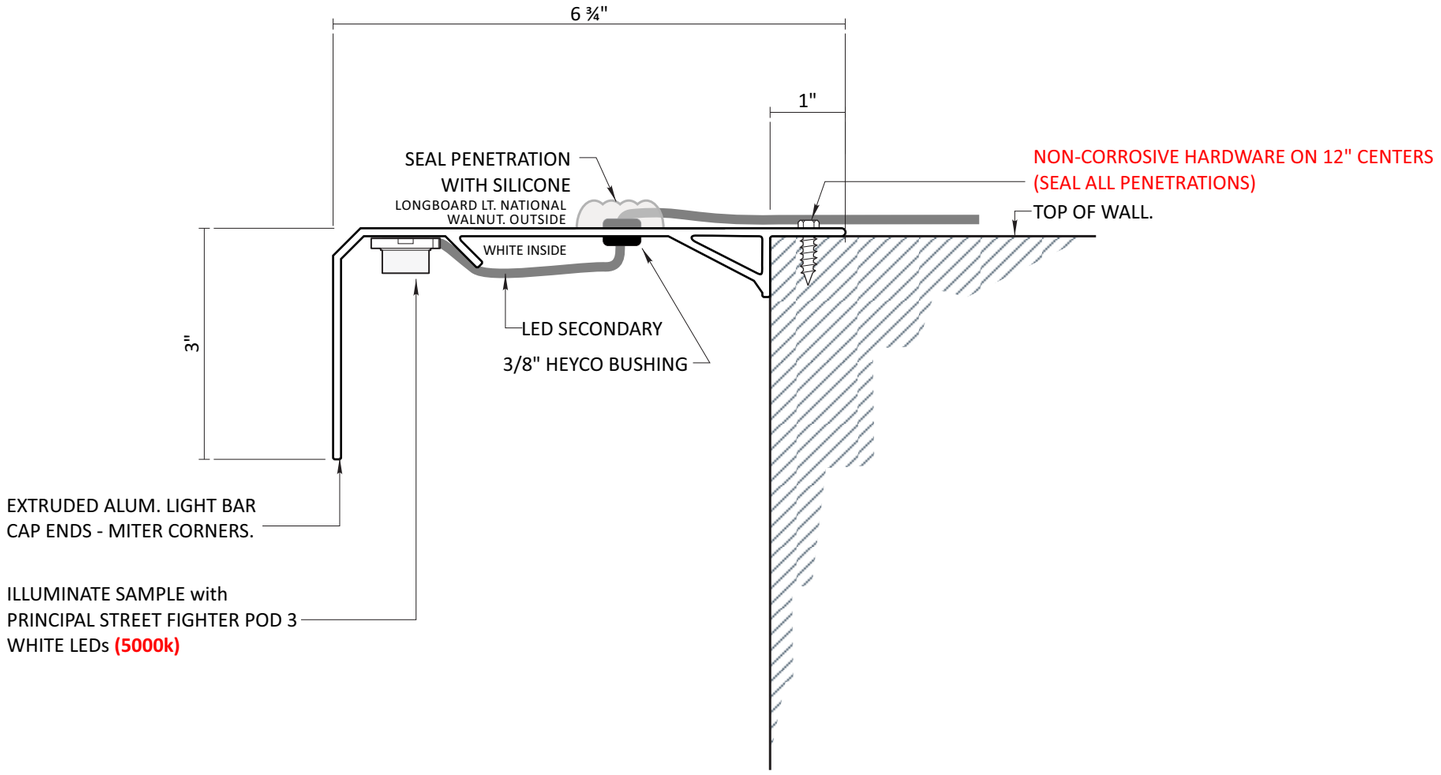
For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.
LiteGear: www.dual-lite.com/products/litegear_lg_series
LPS Series: www.dual-lite.com/products/lps

ENERGY STAR®

For a list of certified models, click on the ENERGY STAR® MODELS link or visit www.energystar.gov.

ENERGY STAR MODELS

HUBBELL Lighting



SECTION (VERT) 6" = 1'-0"

TYP. EA. ELEVATION

ALL EXTERIOR PIECES PAINTED TO MATCH LONGBOARD LT. NATIONAL WALNUT.

ALL INTERIOR PIECES PAINTED WHITE

Longboard Light
National Walnut

CUSTOMER APPROVAL

APPROVED BY: _____ **DATE:** ____ / ____ / ____

Proposal Drawing
Final Drawing

Client: Hawaiian Bros
Location: 17100 Chesterfield Airport Rd., Chesterfield, MO 63005
Salesperson: Pete Sitterle
Prj. Mngr.: Steven Munson
Date: 9/24/2021
Designer: [redacted]/ CHRIS BLANTON
File Name: 21-2799 R8 - H-Bros Chesterfield, MO.cdr
Proposal #: 63056
Job #: 21-2799

Revisions

R8:3/31/22:EM: addt'l eyebrow etc

License #: 18010

Corporate Office
5003 Stout Drive
San Antonio, TX 78219
(210) 341-7244

Dallas
2703 Mockingbird Lane
Dallas, TX 75235
(972) 870-1594

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Houston, TX 77061
(713) 943-1831

Austin (Custom Sign Creations)
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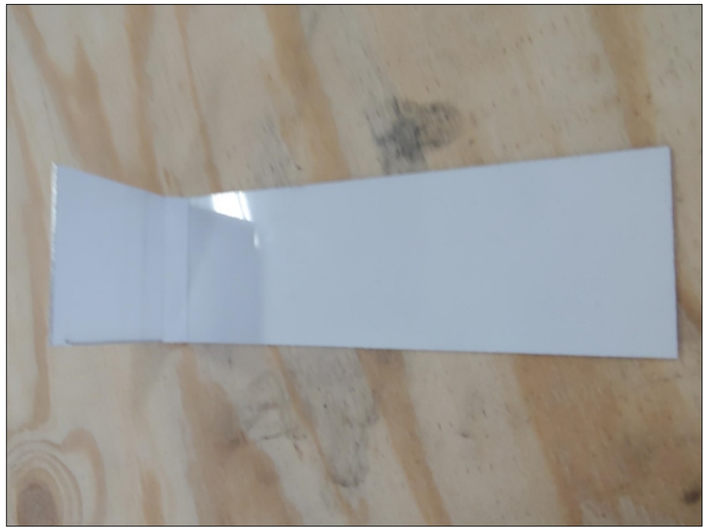
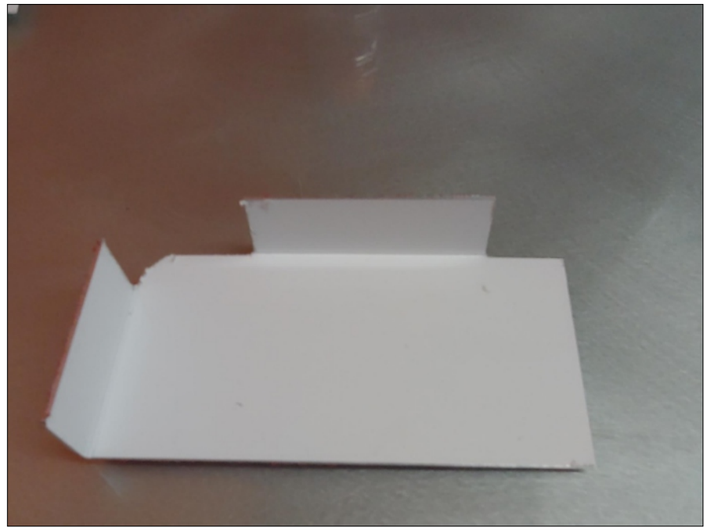
Austin, TX 78753
(512) 374-9300

Tyler (Design Center Signs)
3245 W. Grande Blvd.
Tyler, TX 75703
(903) 561-4995



SEAM PLATE

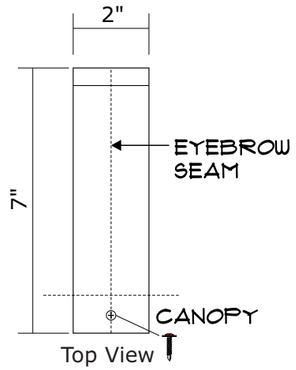


ENDCAP

ENDCAP

Seam Plate

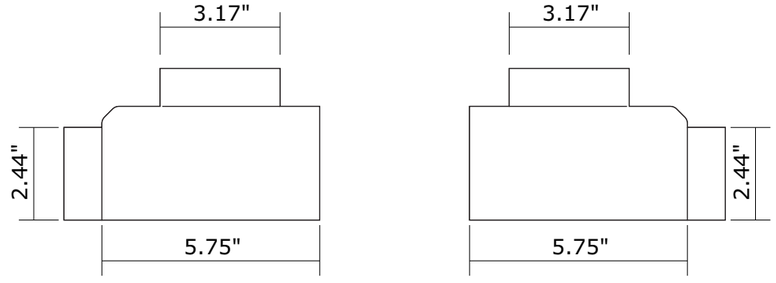
#CKFG00002



Top View

Endcap

#CKFG0307



SEAM PLATE AND ENDCAP DETAILS

Scale: 3" = 1'-0"

- SEAM PLATE FASTENERS TO BE INSTALLED ON TOP
- TO BE FASTENED WITH TRUSS HEAD SELF DRILLING SCREWS
- TOUCH UP HEAD WITH PAINT

ALL EXTERIOR PIECES PAINTED TO MATCH LONGBOARD LT. NATIONAL WALNUT

ALL INTERIOR PIECES PRE-FINISHED WHITE

Longboard Light
National Walnut

*** ALL FASTENERS ARE TO BE PROVIDED BY INSTALLER**

CUSTOMER APPROVAL

APPROVED BY: _____ **DATE:** ____ / ____ / ____

Proposal Drawing
Final Drawing

Client: Hawaiian Bros
Location: 17100 Chesterfield Airport Rd., Chesterfield, MO 63005
Salesperson: Pete Sitterle
Prj. Mngr.: Steven Munson
Date: 9/24/2021
Designer: [redacted]/ CHRIS BLANTON
File Name: 21-2799 R8 - H-Bros Chesterfield, MO.cdr
Proposal #: 63056
Job #: 21-2799

Revisions
R8:3/31/22:EM: addt'l eyebrow etc

License #: 18010

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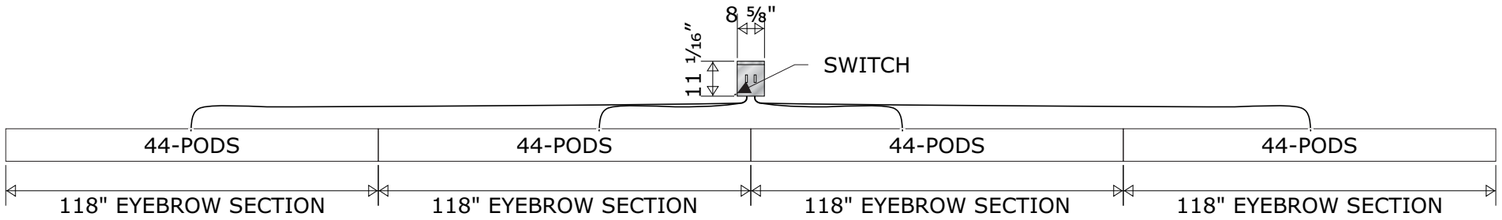
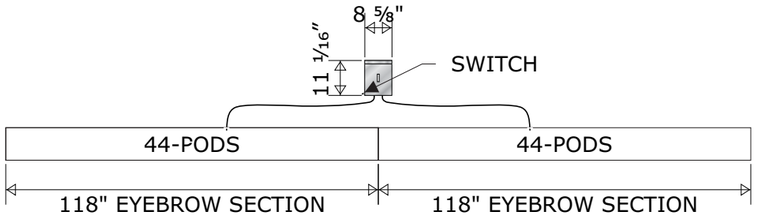


11 1/16" X 8 5/8" X 4 3/4" QWIK BOX.
MAX 44-PODS PER LEG.

* EACH QWIK BOX PULLS 2.2 AMPS

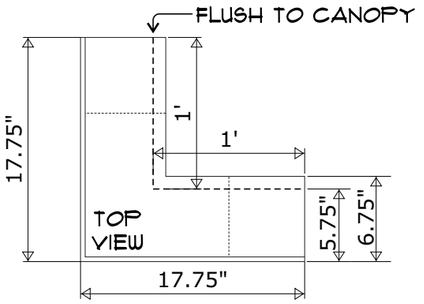
LED DOUBLE QWIK BOX DETAILS

Scale: ¼" = 1'-0"

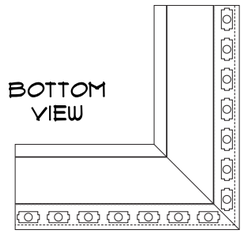


11 1/16" X 8 5/8" X 4 3/4" QWIK BOX.
MAX 44-PODS PER LEG.

* EACH QWIK BOX PULLS 1.1 AMPS



CORNER

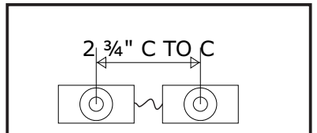


TYPICAL CORNER PIECE W/ ILLUMINATION

Scale: 1" = 1'-0"

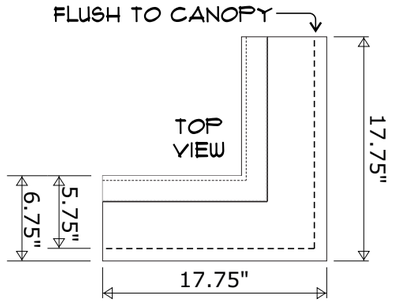
LED SINGLE QWIK BOX DETAILS

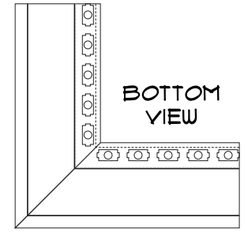
Scale: ¼" = 1'-0"



LED SPACING

Scale: 3" = 1'-0"





TYPICAL INSIDE CORNER PIECE W/ ILLUMINATION

Scale: 1" = 1'-0"

LED LAYOUT UNDER HOOD - TYPICAL BOTTOM VIEW

Scale: ½" = 1'-0"

CUSTOMER APPROVAL

APPROVED BY: _____ **DATE:** ____ / ____ / ____

Proposal Drawing
Final Drawing

Client: Hawaiian Bros
Location: 17100 Chesterfield Airport Rd., Chesterfield, MO 63005
Salesperson: Pete Sitterle
Prj. Mngr.: Steven Munson
Date: 9/24/2021
Designer: [redacted]/ CHRIS BLANTON
File Name: 21-2799 R8 - H-Bros Chesterfield, MO.cdr
Proposal #: 63056
Job #: 21-2799

Revisions
R8:3/31/22:EM: addt'l eyebrow etc

License #: 18010

Corporate Office
5003 Stout Drive
San Antonio, TX 78219
(210) 341-7244

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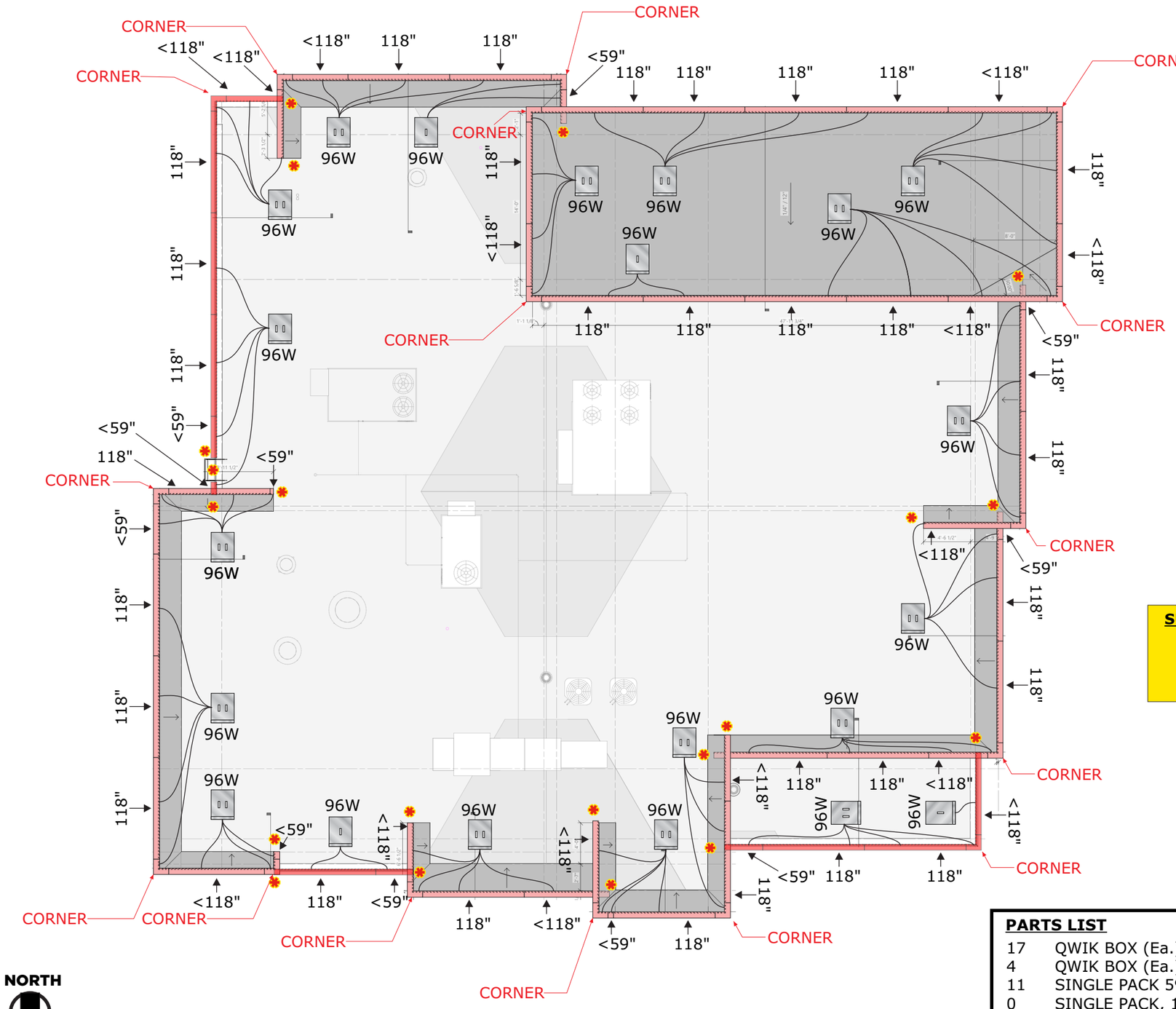

NOTE:
MET labels will be provided

Any labels for local codes to be provided by installer.

SUGGESTED TOOLS FOR CUTTING EYEBROW

SKILSAW WITH FINE METAL BLADE
OR
JIGSAW WITH FINE METAL BLADE

ALL CUSTOM LENGTHS TO BE CUT IN THE FIELD

PARTS LIST		PARTS #
17	QWIK BOX (Ea.), 2-96w 24v Power Supplies	ELPS0055
4	QWIK BOX (Ea.), 1-96w 24v Power Supplies	ELPS0057
11	SINGLE PACK 59" EYEBROW	CKFG0059
0	SINGLE PACK, 118" EYEBROW	CKFG0118
23	TWIN PACK, 118" EYEBROWS	CKFG0236
8	CORNER PIECE, Pair (12" x 12")	CKFG1212
20	ENDCAP (Ea.)	CKFG0307
63	SEAM PLATE (Ea.)	CKFG00002
21	INSTALL KIT (25 Screws & Touch-up Paint Bottle)	FAWA0018

Q **EYEBROW LIGHTING PLAN**

SCALE: 3/32" = 1'-0"

CUSTOMER APPROVAL

APPROVED BY: _____ **DATE:** ____ / ____ / ____

Proposal Drawing
Final Drawing

Client: Hawaiian Bros
Location: 17100 Chesterfield Airport Rd., Chesterfield, MO 63005
Salesperson: Pete Sitterle
Prj. Mngr.: Steven Munson
Date: 9/24/2021
Designer: [redacted]/ CHRIS BLANTON
File Name: 21-2799 R8 - H-Bros Chesterfield, MO.cdr
Proposal #: 63056
Job #: 21-2799

Revisions
R8:3/31/22:EM: addt'l eyebrow etc

Comet SIGNS
License #: 18010

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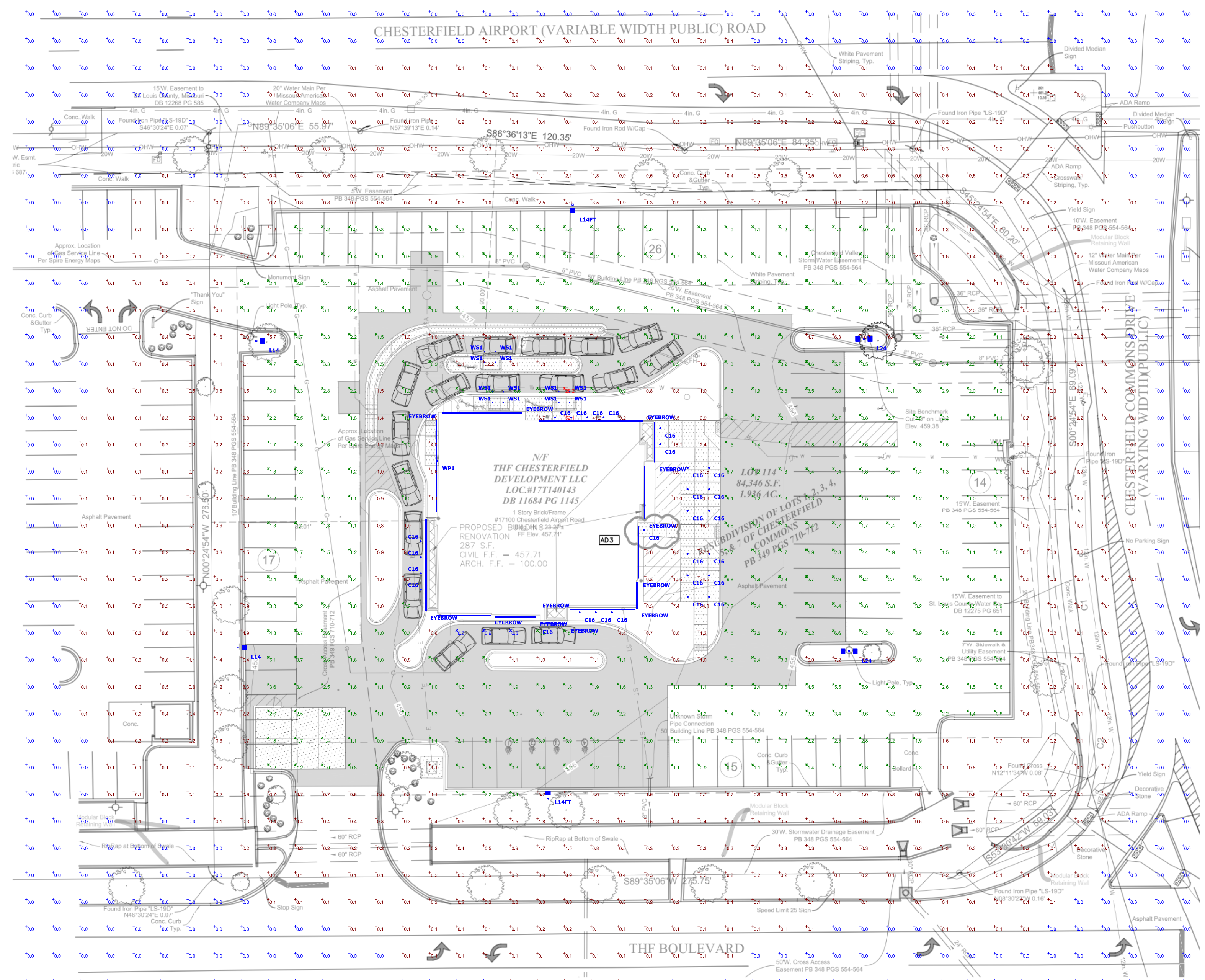

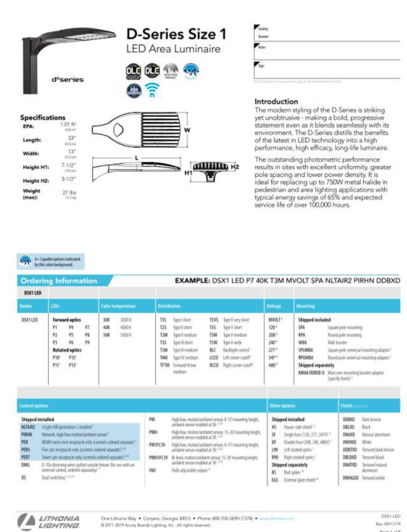

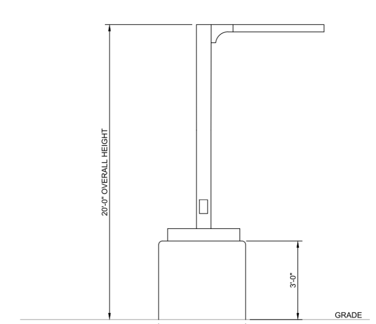

LIGHT POLE DETAIL

NO SCALE

Schedule

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Number Lamps	Lumens per Lamp	LLF	Wattage	Wattage
	L14	2	Lithonia Lighting	DSX1 LED P6 40K T4M MVOLT	DSX1 LED P6 40K T4M MVOLT	1	18634	0.9	163	163
	L24	2	Lithonia Lighting	DSX1 LED P6 40K T4M MVOLT	DSX1 LED P6 40K T4M MVOLT	1	18634	0.9	326	326
	DSX1 LED P6 40K T4M MVOLT	TYPE IV, SHORT, BUG RATING: B3 - U0 - G4	Lithonia Lighting	DSX1 LED P6 40K T4M MVOLT	DSX1 LED P6 40K T4M MVOLT	1	18634	0.9	163	
	DSX1 LED P6 40K T4M MVOLT	TYPE IV, SHORT, BUG RATING: B3 - U0 - G4	Lithonia Lighting	DSX1 LED P6 40K T4M MVOLT	DSX1 LED P6 40K T4M MVOLT	1	18634	0.9	163	
	L14FT	2	Lithonia Lighting	DSX1 LED P6 40K TFTM MVOLT	DSX1 LED P6 40K TFTM MVOLT	1	19037	0.9	163	163
	C16	27	PRESCOLITE	LTR-6RD-H-ML20L-DM1/LTR-6RD-T-ML35K8WDS	6" LITEISTRY Round Downlight, 2000 lumens, 3500K, 80+ CRI, Wide, Specular Clear	1	2177	1	22.7	22.7
	WP1	1	RAB LIGHTING INC. RC LIGHTING	SLIM12N	CAST BROWN PAINTED FINNED METAL HOUSING, 1 CIRCUIT BOARD WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME.	1	1917	1	15.9	15.9
	WS1	12	B-K LIGHTING INC	CK-LED-X63-WFL-9	Circular black aluminum housing, white stepped reflector, and glass lens	1	1220	1	21.996	21.996
	EYEBROW	1	ESTAR	3535RGB+2835NW-120D-120V	LED Strip LIGHT 609.6*10MM	1	241	1	5.98871	5.98871

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #2	+	1.2 fc	52.1 fc	0.0 fc	N/A	N/A
PARKING LOT	✕	2.4 fc	28.2 fc	0.6 fc	47.0:1	4.0:1

NORTH

1" = 20'

SCALE 20' 0 20' 40' FEET

CIVIL SITE PHOTOMETRIC PLAN & DETAILS

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www.EXCELENGINEER.com

PROJECT INFORMATION

PROPOSED BUILDING RENOVATION

HAWAIIAN BROS - STR: 47

17100 CHESTERFIELD AIRPORT ROAD • CHESTERFIELD, MO 63005

PROFESSIONAL SEAL

SHEET DATES

SHEET ISSUE DEC. 8, 2021

REVISIONS

AD3 MAR. 31, 2022

JOB NUMBER

2164200

SHEET NUMBER

C3.1

D-Series Size 1
LED Area Luminaire

Buy American

Catalog Number

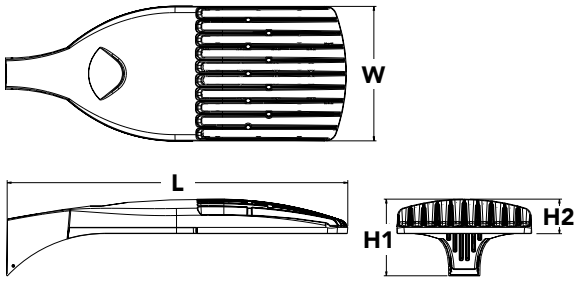
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	1.01 ft² (0.09 m²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2"
Weight (max):	27 lbs (12.2 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series

DSX1 LED

LEDs

Forward optics

P1, P2, P3, P4[1], P5[1], P6[1], P7[1], P8, P9[1]

Rotated optics

P10[2], P11[2], P12[2], P13[1,2]

Color temperature

30K	3000 K
40K	4000 K
50K	5000 K

Distribution

T1S	Type I short (Automotive)
T2S	Type II short
T2M	Type II medium
T3S	Type III short
T3M	Type III medium
T4M	Type IV medium
TFTM	Forward throw medium
T5VS	Type V very short[3]
T5S	Type V short[3]
T5M	Type V medium[3]
T5W	Type V wide[3]
BLC	Backlight control[4]
LCCO	Left corner cutoff[4]
RCCO	Right corner cutoff[4]

Voltage

MVOLT[5]
XVOLT (277V-480V)[6,7,8]
120[9]
208[9]
240[9]
277[9]
347[9]
480[9]

Mounting

Shipped included

SPA	Square pole mounting
RPA	Round pole mounting[10]
WBA	Wall bracket[3]
SPUMBA	Square pole universal mounting adaptor[11]
RPUMBA	Round pole universal mounting adaptor[9]

Shipped separately

KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish)[12]

Control options

Shipped installed

NLTAIR2	nLight AIR generation 2 enabled[13]
PIRHN	Network, high/low motion/ambient sensor[14]
PER	NEMA twist-lock receptacle only (controls ordered separate)[15]
PER5	Five-pin receptacle only (controls ordered separate)[15,16]
PER7	Seven-pin receptacle only (controls ordered separate)[15,16]
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]
DS	Dual switching[18,19,20]
PIR	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[20,21]
PIRH	High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[20,21]
PIR1FC3V	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[20,21]
PIRH1FC3V	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[20,21]
FAO	Field adjustable output[20,21]

Other options

Shipped installed

HS	House-side shield[23]
SF	Single fuse (120, 277, 347V)[9]
DF	Double fuse (208, 240, 480V)[9]
L90	Left rotated optics[2]
R90	Right rotated optics[2]
HA	50°C ambient operations[1]
BAA	Buy America(n) Act Compliant

Shipped separately

BS	Bird spikes[24]
EGS	External glare shield

Finish *(required)*

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [25]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [25]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [25]
DSHORT SBK U	Shorting cap [25]
DSX1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 [23]
DSX1HS 40C U	House-side shield for P6 and P7 [23]
DSX1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 [23]
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) [26]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [12]
DSX1EGS (FINISH) U	External glare shield

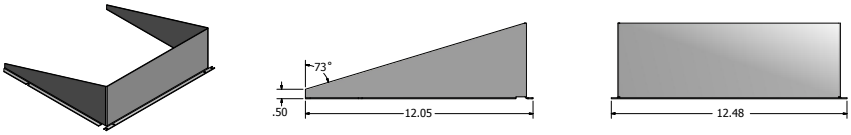
For more control options, visit DTL and ROAM online.

NOTES

1 HA not available with P4, P5, P6, P7, P9 and P13.
2 P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
3 Any Type 5 distribution with photocell, is not available with WBA.
4 Not available with HS.
5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
6 XVOLT only suitable for use with P3, P5, P6, P7, P9 and P13.
7 XVOLT works with any voltage between 277V and 480V.
8 XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
9 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF.
10 Suitable for mounting to round poles between 3.5" and 12" diameter.
11 Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8
12 Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
13 Must be ordered with PIRHN. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
14 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit this link.
15 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting cap included.
16 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
17 DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
18 Provides 50/50fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
19 Requires (2) separately switched circuits with isolated neutrol.
20 Reference Controls Option Default settings table on page 4.
21 Reference Motion Sensor table on page 4 to see functionality.
22 Not available with other dimming controls options.
23 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
24 Must be ordered with fixture for factory pre-drilling.
25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Control Option Table on page 4.
26 For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

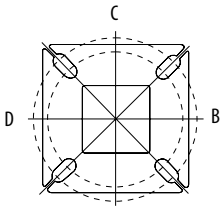
Options

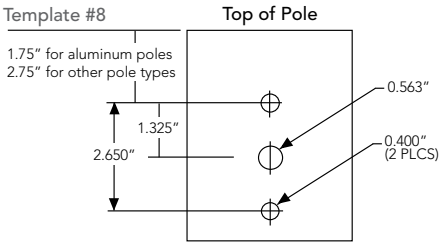
EGS - External Glare Shield



Drilling

HANDHOLE ORIENTATION





Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

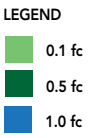
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 LED	1.013	2.025	1.945	3.038	2.850	3.749

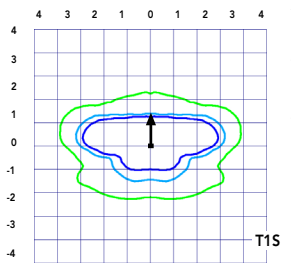
	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

Photometric Diagrams

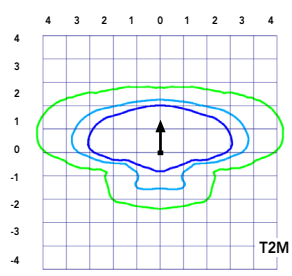
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 1 homepage.

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').





Test No. LTL23211 tested in accordance with IESNA LM-79-08.



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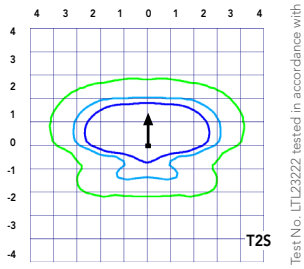

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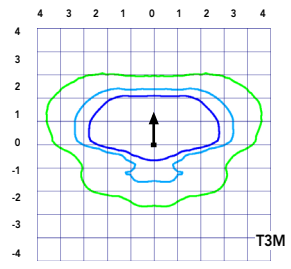

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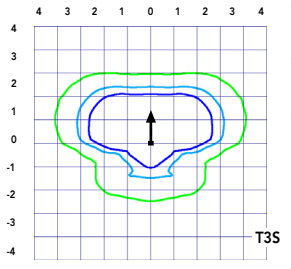

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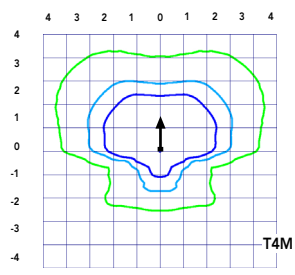

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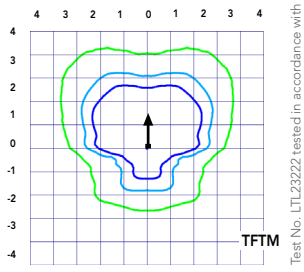

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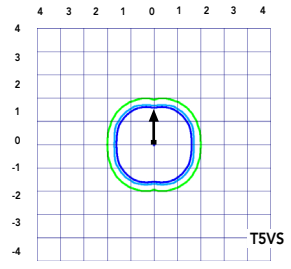

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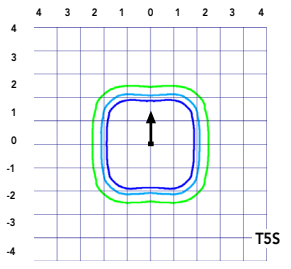

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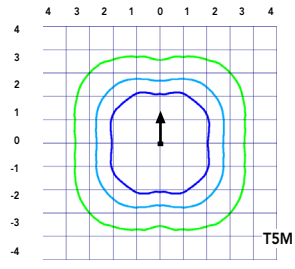

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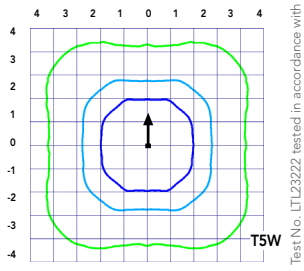

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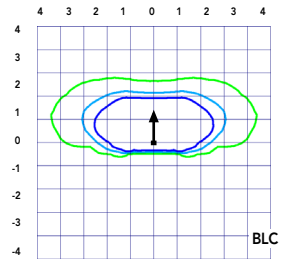

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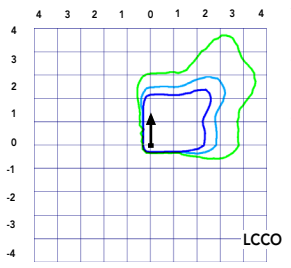

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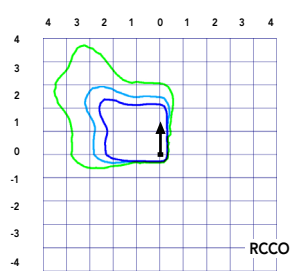

Test No. LTL23164B tested in accordance with IESNA LM-79-08.

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min
*for use when motion sensor is used as dusk to dawn control.						

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A) 120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

Controls Options				
Nomenclature	**Description**	**Functionality**	**Primary control device**	**Notes**
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell recepticle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	**P1**	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131
				T5VS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136
				T5S	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136
				T5M	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136
				T5W	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
30	700	**P2**	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129
				T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128
				T2M	8,283	2	0	2	118	8,923	2	0	2	127	9,036	2	0	2	129
				T3S	8,021	2	0	2	115	8,641	2	0	2	123	8,751	2	0	2	125
				T3M	8,263	2	0	2	118	8,901	2	0	2	127	9,014	2	0	2	129
				T4M	8,083	2	0	2	115	8,708	2	0	2	124	8,818	2	0	2	126
				TFTM	8,257	2	0	2	118	8,896	2	0	2	127	9,008	2	0	2	129
				T5VS	8,588	3	0	0	123	9,252	3	0	0	132	9,369	3	0	0	134
				T5S	8,595	3	0	1	123	9,259	3	0	1	132	9,376	3	0	1	134
				T5M	8,573	3	0	2	122	9,236	3	0	2	132	9,353	3	0	2	134
				T5W	8,517	3	0	2	122	9,175	4	0	2	131	9,291	4	0	2	133
				BLC	6,770	1	0	2	97	7,293	1	0	2	104	7,386	1	0	2	106
				LCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
				RCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
30	1050	**P3**	102W	T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125
				T5VS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130
				T5S	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130
				T5M	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130
				T5W	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
30	1250	**P4**	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117
				T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117
				T2M	13,490	2	0	2	108	14,532	3	0	3	116	14,716	3	0	3	118
				T3S	13,064	3	0	3	105	14,074	3	0	3	113	14,252	3	0	3	114
				T3M	13,457	2	0	2	108	14,497	2	0	2	116	14,681	2	0	2	117
				T4M	13,165	2	0	3	105	14,182	2	0	3	113	14,362	2	0	3	115
				TFTM	13,449	2	0	3	108	14,488	2	0	3	116	14,672	2	0	3	117
				T5VS	13,987	4	0	1	112	15,068	4	0	1	121	15,259	4	0	1	122
				T5S	13,999	3	0	1	112	15,080	3	0	1	121	15,271	3	0	1	122
				T5M	13,963	4	0	2	112	15,042	4	0	2	120	15,233	4	0	2	122
				T5W	13,872	4	0	3	111	14,944	4	0	3	120	15,133	4	0	3	121
				BLC	11,027	1	0	2	88	11,879	1	0	2	95	12,029	1	0	2	96
				LCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
				RCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
30	1400	**P5**	138W	T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116
				T5VS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121
				T5S	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121
				T5M	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121
				T5W	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	**P6**	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				T5VS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				T5M	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				T5W	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
40	1400	**P7**	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115
				T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114
				T2M	19,305	3	0	3	105	20,797	3	0	3	114	21,060	3	0	3	115
				T3S	18,696	3	0	3	102	20,141	3	0	3	110	20,396	3	0	4	111
				T3M	19,258	3	0	3	105	20,746	3	0	3	113	21,009	3	0	3	115
				T4M	18,840	3	0	4	103	20,296	3	0	4	111	20,553	3	0	4	112
				TFTM	19,246	3	0	4	105	20,734	3	0	4	113	20,996	3	0	4	115
				T5VS	20,017	4	0	1	109	21,564	4	0	1	118	21,837	4	0	1	119
				T5S	20,033	4	0	2	109	21,581	4	0	2	118	21,854	4	0	2	119
				T5M	19,983	4	0	2	109	21,527	5	0	3	118	21,799	5	0	3	119
				T5W	19,852	5	0	3	108	21,386	5	0	3	117	21,656	5	0	3	118
				BLC	15,780	2	0	3	86	16,999	2	0	3	93	17,214	2	0	3	94
				LCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
				RCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
60	1050	**P8**	207W	T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				T5VS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				T5W	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
60	1250	**P9**	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116
				T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116
				T2M	25,680	3	0	3	107	27,664	3	0	3	115	28,014	3	0	3	116
				T3S	24,870	3	0	4	103	26,791	3	0	4	111	27,130	3	0	4	113
				T3M	25,617	3	0	4	106	27,597	3	0	4	115	27,946	3	0	4	116
				T4M	25,061	3	0	4	104	26,997	3	0	4	112	27,339	3	0	4	113
				TFTM	25,602	3	0	4	106	27,580	3	0	4	114	27,929	3	0	4	116
				T5VS	26,626	5	0	1	110	28,684	5	0	1	119	29,047	5	0	1	121
				T5S	26,648	4	0	2	111	28,707	5	0	2	119	29,070	5	0	2	121
				T5M	26,581	5	0	3	110	28,635	5	0	3	119	28,997	5	0	3	120
				T5W	26,406	5	0	4	110	28,447	5	0	4	118	28,807	5	0	4	120
				BLC	20,990	2	0	3	87	22,612	2	0	3	94	22,898	2	0	3	95
				LCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71
				RCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	**P10**	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				T5VS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				T5S	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				T5M	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				T5W	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
60	700	**P11**	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134
				T5VS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135
				T5S	16,832	4	0	1	123	18,133	4	0	2	132	18,362	4	0	2	134
				T5M	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134
				T5W	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79
60	1050	**P12**	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				T5VS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				T5S	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				T5W	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
60	1250	**P13**	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122
				T5VS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123
				T5S	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122
				T5M	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122
				T5W	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72
				RCCO	15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72

FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft^2) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS
The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS
The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION
Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.