PROJECT NAME: STICKNEY DENTAL & AESTHETICS

PROJECT NUMBER: 2025010012

APPLICATION: MAJOR SITE PLAN #32349

DEPARTMENT: ENGDRN - STORMWATER REVIEW

REVIEW ITEM: 6.13.2.B(8) - Calculation & Plan Consistency

STATUS OF REVIEW: INFO

REMARKS: Criteria to be reviewed with resubmittal.

2 DEPARTMENT: ENGDRN - STORMWATER REVIEW REVIEW ITEM: 6.13.10.B - Copy of NPDES Permit or NOI

STATUS OF REVIEW: INFO

REMARKS: Please provide a copy of the NPDES permit or NOI prior to construction.

3 DEPARTMENT: ENGDRN - STORMWATER REVIEW

REVIEW ITEM: Additional Stormwater comments

STATUS OF REVIEW: INFO

REMARKS: If you have questions or would like to discuss the stormwater review comments, please contact

Kevin Vickers, PE at 352-671-8695 or kevin.vickers@marionfl.org.

4 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW

REVIEW ITEM: 2.12.4.K - List of approved waivers, their conditions, and the date of approval

STATUS OF REVIEW: INFO

REMARKS: 2/14/25-add waivers if requested in future

5 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW

REVIEW ITEM: Additional Development Review Comments

STATUS OF REVIEW: INFO

REMARKS: After approval, plans will be electronically stamped by the County. The applicant will receive an email indicating that approved plans are available for download and are located in the ePlans project Approved folder. For Development Review submittals, with the exception of Final Plats and Minor Site Plans, applicants are required to print, obtain required signatures, and sign and seal two 24"x 36" sets of the electronically stamped approved plan and deliver them to the Office of County Engineer, Development Review Section, located at 412 SE 25th Avenue Ocala, FL 34471. Upon receipt, a development order will be issued. Until such time as that development order is issued, the project does not have final approval and construction, if applicable, shall not commence. For plans requiring As-Builts, As-Builts and associated documentation shall be submitted on paper in accordance with current county requirements.

6 DEPARTMENT: UTIL - MARION COUNTY UTILITIES

REVIEW ITEM: 6.14.2.A - Sewer Connection Requirements

STATUS OF REVIEW: INFO

REMARKS: 7/25/25 Per Carrie Hyde, Approved with the conditions within the waiver for section 6.14.2 - as listed on the cover sheet. 6/25/25 — Comment remains. The Engineer of Record has requested a waiver for the sewer connection. Reviews will continue to be rejected until the outcome of the waiver request is provided at the next Board of County Commissioners meeting. Prev. 2.24.25 - C4.1 Septic Tank is shown, sewer is available. (2) MCU understands a waiver for sewer connection is being proposed. In the event of the waiver being denied, sewer connections and details will re required to be shown.

7 DEPARTMENT: UTIL - MARION COUNTY UTILITIES

REVIEW ITEM: 6.14.3 - Onsite Waste Treatment and Disposal System (OSTDS) - connection requirement

on plan

STATUS OF REVIEW: INFO

REMARKS: 7/25/25 Septic System approved - please see NOTE on C4.1 in regards to future MCU sewer

connection.

8 DEPARTMENT: DOH - ENVIRONMENTAL HEALTH

REVIEW ITEM: Additional Health comments

STATUS OF REVIEW: INFO

REMARKS: Will need septic permit through the Department of Environmental Protection if waiver for

sewer connection is granted. Connection to sewer is required if available.

Will need biomedical waste permit through the Department of Health in Marion County

9 DEPARTMENT: LUCURR - LAND USE CURRENT REVIEW

REVIEW ITEM: 2.12.4.L(6) - Gross/wetland/floodplain acreage listed?

STATUS OF REVIEW: INFO

REMARKS: No wetlands or floodplain on-site.

10 DEPARTMENT: ZONE - ZONING DEPARTMENT

REVIEW ITEM: 2.12.6 - Location of water and sewer. Does this need a special use permit?

STATUS OF REVIEW: INFO

REMARKS: Defer to Marion County Utilities. Waiver for temporary septic was denied.



Marion County Board of County Commissioners

AR #32349

Office of the County Engineer

412 SE 25th Ave. Ocala, FL 34471 Phone: 352-671-8686 Fax: 352-671-8687

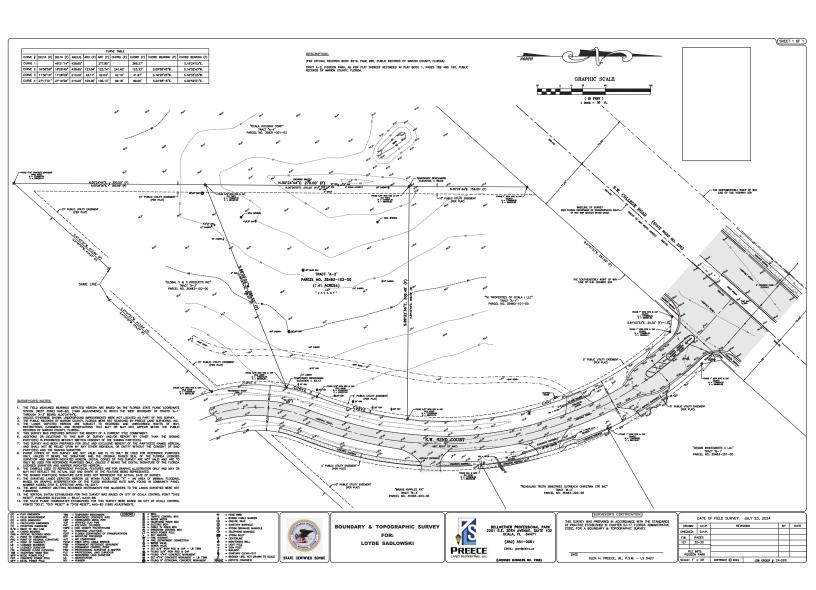
DEVELOPMENT REVIEW PLAN APPLICATION

Date: 1/6/2025			
A. PROJECT INFORMATION:			
Project Name: Stickney Dental & Aesthetics			
Parcel Number(s): 35483-102-00			
Section 8 Township 16 Range 21	Land Use Commercial Z	oning Classifica	tion B-2
Commercial Residential Industrial In	stitutional Mixed Use	Other	
Type of Plan: MAJOR SITE PLAN			
Property Acreage 1.41 ac Number	of Lots 1	Miles of Ro	ads NA
Location of Property with Crossroads Tract A-2,	, Pidgeon Park, Approxima	itely 150 feet Sou	th of SR 200.
Additional information regarding this submitta	1: New Dental office with o	nsite parking and	onsite stormwater retention
B. CONTACT INFORMATION (Check the approximate to receive correspondence during this plan review.) Engineer:			
Firm Name: Riddle - Newman Engineering, Inc.			
Mailing Address: 115 North Canal Street Phone # 352-787-7482	City: Leesburg	State: FL	Zip Code: <u>34748</u>
Email(s) for contact via ePlans: keith@riddlenew	/man.com		
✓ Surveyor:			
Firm Name: Preece Land Surveying, Inc.	Contact Nam	e: Glen H. Preec	e .lr
Mailing Address: 2201 SE 30th Ave., Suite 102			
	Alternate Phone #		
Email(s) for contact via ePlans: tammy@plsinc.u	· · · · · · · · · · · · · · · · · · ·		
Eman(s) for contact via of fails.	·-		
Property Owner:			
Owner: PRS DMD, LLC	Contact Nam	e: Peter Stickney	. Manager
Mailing Address: 17750 SW 61st Lane Road			
	Alternate Phone #		
Email address: PStickney@imagendentalpartners	.com		
Emun address.			
Developer:			
Developer: PRS DMD, LLC	Contact Nam	e: Peter Stickney	, Manager
Mailing Address: 17750 SW 61st Lane Road			Zip Code: 34432
	A 14 4 - D1 #	State	<u> </u>
Email address: PStickney@imagendentalpartners	.com		

Revised 6/2021

CLEAR FORM





STICKNEY DENTAL

MARION COUNTY, FLORIDA

LEGAL DESCRIPTION

(PER OFFICIAL RECORDS BOOK #219, PAGE 985, PUBLIC RECORDS OF MARION COUNTY, FLORIDA)

(RET OFFICIAL RECORDS ROOK #219, PAGE 985, PUBLIC RECORDS OF MARION COUNTY, FLORIDA)

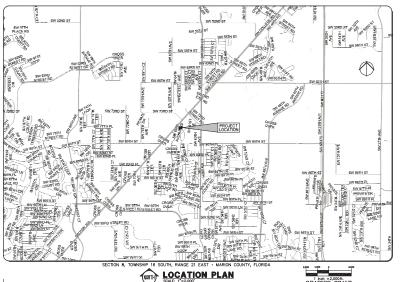
(RET OFFICIAL RECORDS ROOK #219, PAGE 1919, PAGE 1919, PAGE 1919 AND 190, PUBLIC RECORDS OF MARION COUNTY, FLORIDA

(RECORD #210, PAGE 1919, PAGE 1919

TRAFFIC DATA

LAND USE: MEDICAL - DENTAL OFFICE
LAND USE CODE: 720
ITE 9TH ADDITION
PM PEAK HOURS RATE = 4.45 PER 1,000 square feet
PEAK HOUR TRIPS = 4.45 x 5.65 = 25
40% ENTERING, 60% EXITING

WATER/SEWER POINT OF CONTACT
MARION COUNTY UTILITIES CUSTOMER SERVICE 24/7/365
11800 US 441 BELLEVIEW, FL 34420
PHONE (352) 307-6000



- CONNECTION SHALL EAST ALL ELEXANDER PHORE TO CONSIDERIZE AND SHOW ANY CONSIDERATIONS TO THE ATTENDED OF THE CONTRIBUTION OF TH

- ALL WATER & SEMER LINE CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MARION COUNTY UTILITY REQUIREMENTS. CON-INSPECTED BY MARION COUNTY UTILITIES (NOU). CONTACT MOU CONSTRUCTION OFFICE MARK RUDOWSKE AT 352-845-9476.
- ANY SOL MATERIAL (EITHER ON-SITE OR IMPORTED) UTILIZED FOR THE CONSTRUCTION OF RETENTION SHALES OR RETENTION PONDS SHALL BE CLEAN FINE SAND (SP) AS DEFINED BY THE UNIFIED SOL CLASSFICATION SYSTEM. FINES (MATERIAL PASSING THE NO. 200 SEVE) SHALL BE LESS THAN 50.

- FEMA DESIGNATION: THE PROJECT LES WITHIN FEMA FLOCO ZONE "X", AN AREA OUTSDE THE 0.2% ANNUAL CH MAP, COMMUNITY PANEL NOS. 120160 00000, EFFECTIVE AUGUST 28, 2008.
- age: onsite retention area. The onsite storm water collection system will be maintained by the owner.
- 19. ALL ROADS, PAVING, ORA'S AND DRAHAGE EASEMENTS ARE PRIVATELY OWNED AND SHALL BE MANTANED BY COVELOPER.

 20. ALL NOR PIRE HYDRANTS RISTALLED WITH THIS PROJECT SHALL BE INSTALLED. ISSUED, AND PARKED PER HYDR 291, BY A THEO PARTY CONTRACTOR. TISTING 58
 EE WINNESSED BY THE MARKING COUNTY PIRE RISTALDED AND COPIES OF THE HYBRING TOWN OF SHALL BE PROVIDED TO THE MARKING COUNTY PIRE REPRECISE.

SITE DATA

PROPOSED IMPERVIOUS AREA = 32,164 sq.ft. (0.74 oc.)
PERCENT IMPERVIOUS AREA = 52.5% (of total area) LOT IS PERMITTED FOR A MAXIMUM OF 60% IMPERVIOUS SURFACE RATIO. PROPOSED OPEN SPACE = 47.5%

PLOOD ZONE = "X"
ZONNG = B-2
FUTURE LAND USE = COMMERCIAL
OWERLAY ZONE = SECONDARY SPRING PROTECTION ZONE

MINIMUM LOT AREA = NONE MINIMUM LOT WOTH = NONE MAXIMUM BULDING HEIGHT = 50' PROPOSED BULDING HEIGHT = 25' MAXIMUM FLOOR AREA RATIO (FAR) = 1.0 PROPOSED FAR = 0.09

EXISTING USE OF SITE - VACANT PROPOSED USE OF SITE - MEDICAL OFFICE BUILDING

PROPOSED BULLDING SQUARE FOOTAGE = 5,653 sq.ft. (LEASABLE SPACE)
PARSONG REQUIRED = 1 per 250 sq.ft. = 23 spaces
PARSONG PROVIDED = 48 spaces ALL CONSTRUCTION COVERED BY THESE PLANS COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE MARION COUNTY LAND DEVELOPMENT CODE.

NO CHANGE TO THE WORK AS SHOWN ON THE APPROVED PLANS SHALL BE MADE WITHOUT NOTIFICATION TO AND APPROVAL BY THE OFFICE OF THE COUNTY ENGINEER

I HEREBY CERTIFY THAT I, MY SUCCESSORS AND ASSIGNS, SHALL PRIFETUALLY OFFRATE AND MAINTAIN THE STORMMATTR MANAGEMENT AND ASSOCIATED ELEMENTS IN ACCORDANCE WITH THE SPECIFICATIONS SHOWN HEREIN AND ON THE APPROVED PLAN.

	SHEET INDEX
C1.1	COVER SHEET
C1.2	STORMWATER POLLUTION PREVENTION PLA
C1.3	TREE REMOVAL PLAN
C2.1	GEOMETRY PLAN
C3.1-C3.2	GRADING & DRAINAGE PLANS
C4.1	UTILITY PLAN
C5.1-C5.3	DETAIL SHEETS

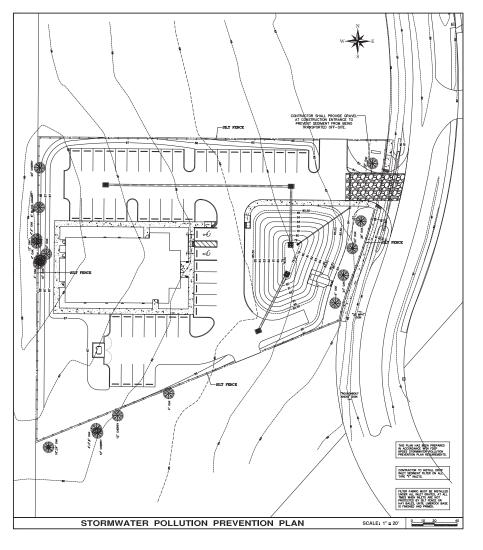
CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE UTILITY DEPARTMENT 2 WEEKS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO ANY MATERIALS BEING DELIVERED ON-SITE.

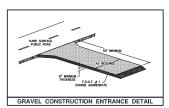
OWNER / APPLICANT	CONTRACTOR
Peter Stickney, Manager	Loyde Sadlowski
PRS DMD, LLC	Loyde W. Sadlowski, Inc.
17750 SW 61st Lane Road	7500 SW 61st Avenue, Suite
Dunnellon, Florida 34432	Ocala, Florida 34476
Phone (352) 854-2000	Phone (352) 861-0075

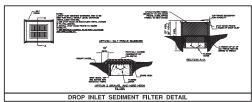
KEITH E. RIDOLE, P.I STATE OF FLORIDA, PROFESSIONAL ENGINEE LICENSE NO. 38800 DENTAL

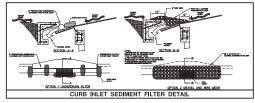
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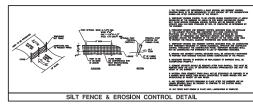
115 NORTH CANAL ST LEESBURG, FLORIDA 3 PHONE (352) 787—7 FAX (352) 787—7 keith@riddlenewmon.











NPDES Requirements

Faderal Low problets all polet owner electrogs of pollutars, which includes the discharge of statuments associated with large (geneter than 5 activ) construction activities or small from than 5 across geneter line. I acros) construction activities, to waters of the United States without a Shitsoul Pollutar Discharge Elizamine System (NPUES) pressure. Under the State of Whethis ambienty to understand NPUES secretories prepares, experted that have extensive in General personal content for the pressure, experted that there extensive in General personal content for the personal experts of the State of Whethis ambients are small personal content of the State of the State of Whethis ambients are small personal content of the State of the Stat

The Contractor shall obtain the NDPES permit during the permitting p

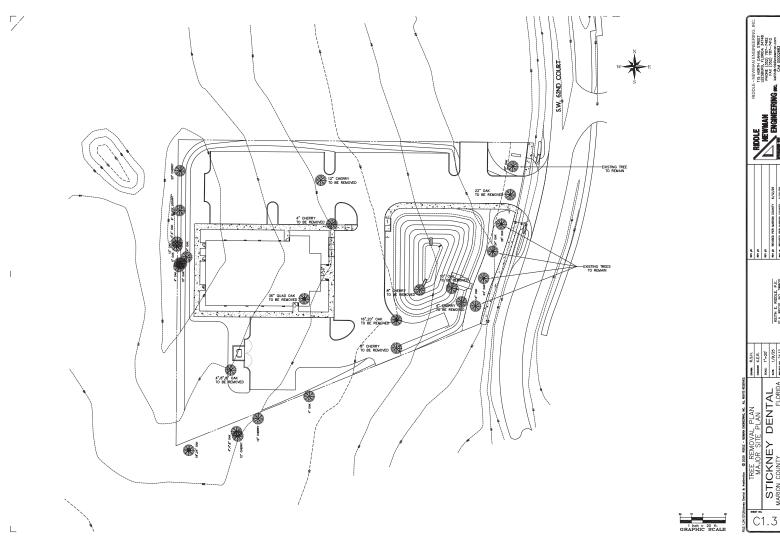
The Contractor shall prepayer the Statum Water Polishion Procession Plan (SWPPP). Contractor rate of their defermation pertaining to the NOVES prepare unline at now object at the November Statument of the Transfer of the Transfer of the Propriet of the Complete of the SWPPP and the Polishion of t

The NYDES permit requires at least weekly inspections of the site and inspections within 24 hours following any minfall event exceeding 0.5" inches. The Contractor is responsible for the weekly in and post-sistable event inspections and those inspections are required to be made by a "Qualifast" impactor. These inspections must document compliance with the permit and the SWITP and the inspe-

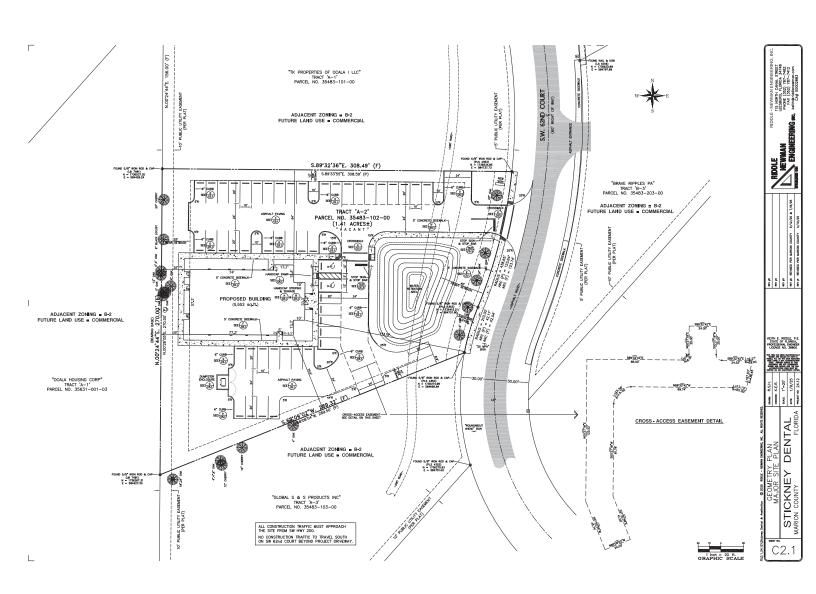
redditional information on qualified important or additional information on qualified important or deliveral information on qualified important or additional information on the NPDES requirement.

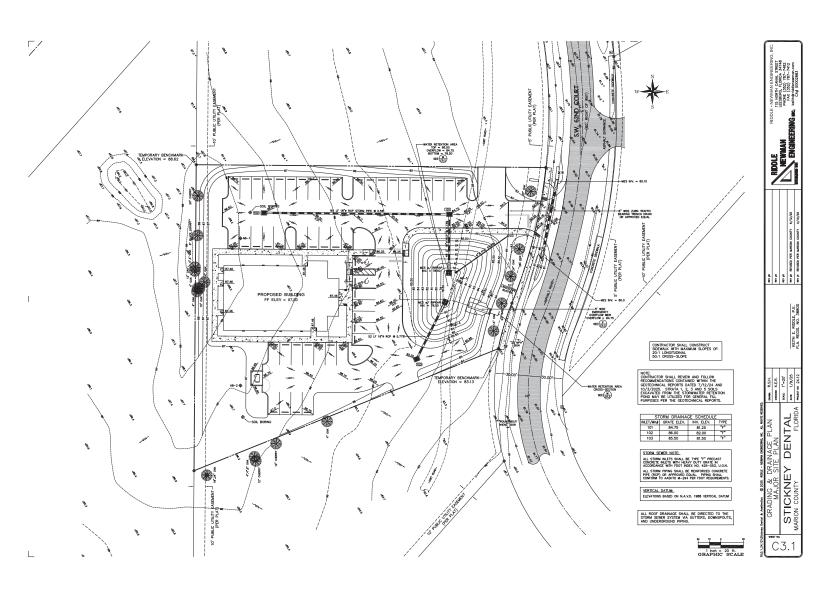
NPDES REQUIREMENT

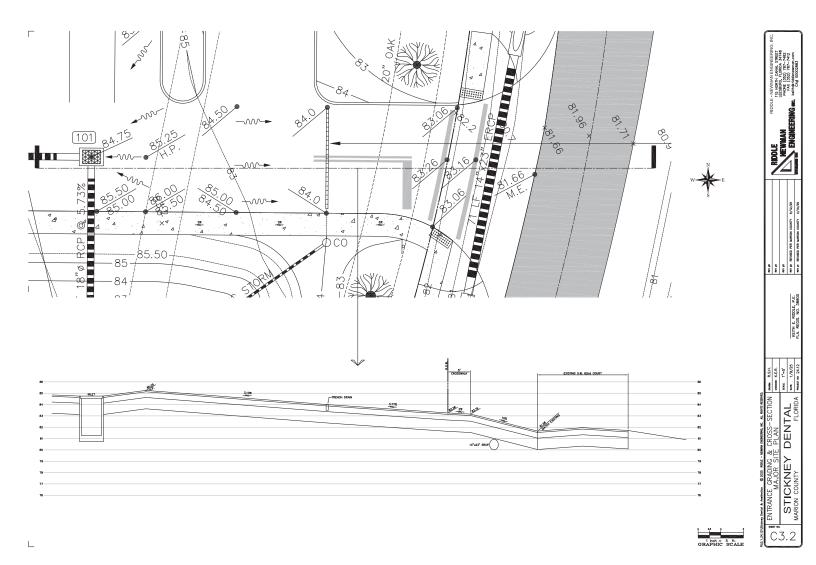
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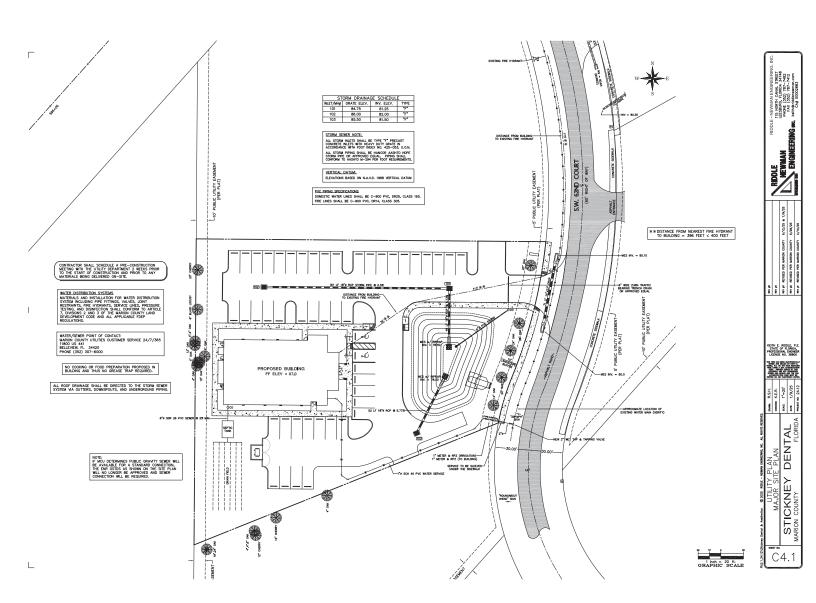


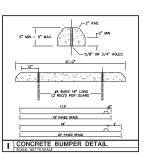
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DETECTABLE WARNING MAT-IN COMPLIANCE WITH CHAPTER 11-4.29, F.S.C.

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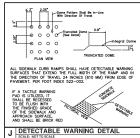
A HANDICAP STRIPING DETAIL

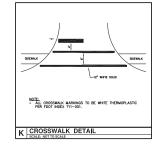
1" PRIOR TO SEEDING OR PLANTIN 2" PRIOR TO SODDING VARIES

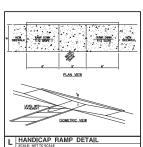
NOTE:
TOALED CONTROL JOINTS © 5° O.C. MAX,
EXPANSION JOINTS © 20° O.C. MAX,
EXPANSION JOINTS 94 20° O.C. MAX,
JOINTS SHALL BE CONSTRUCTED WITHIN
24 HOURS OF POURING CONCRETE.
JOINTS SHALL BE 3/4" DEEP FROM THE TOP OF THE
SIDEWALK AND EXTEND THE FULL WIDTH OF THE SIDEWALK.

E SIDEWALK DETAIL

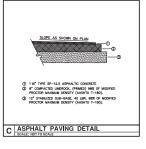
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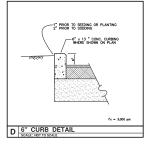


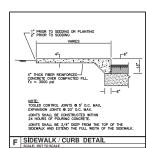


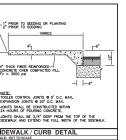


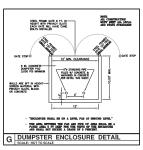


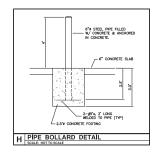












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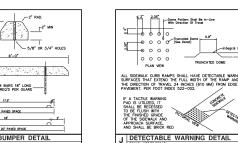
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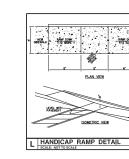
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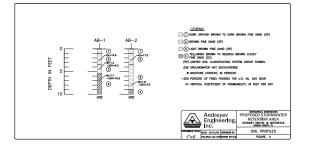
PLAN

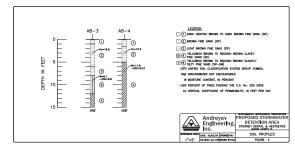
KEITH E. RIDDLE, P.E. FLA. REGIS. NO. 38800

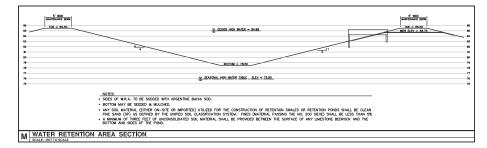


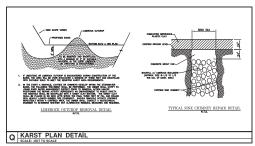


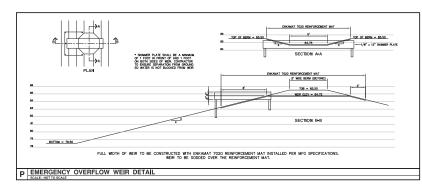


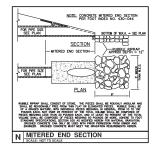


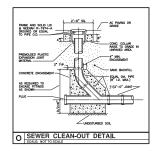












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> REVISED PER MARION COUNTY 8/12/25 REVISED PER MARION COUNTY 4/10/25

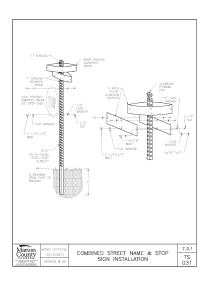
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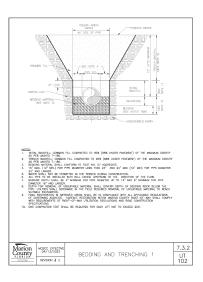
DETAILS
MAJOR SITE PLAN
STICKNEY DENTAL
MARION COUNTY
FLORIDA

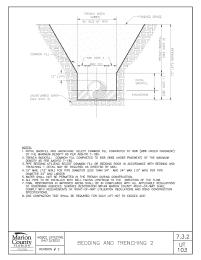
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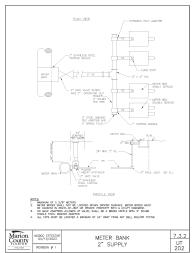
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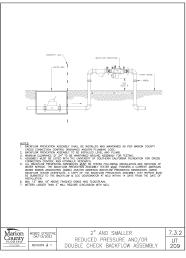
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results to 24.12

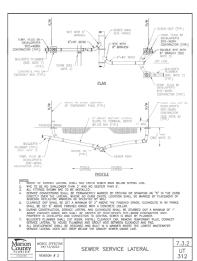
STICKNEY DENTAL MARION COUNTY FLORIDA

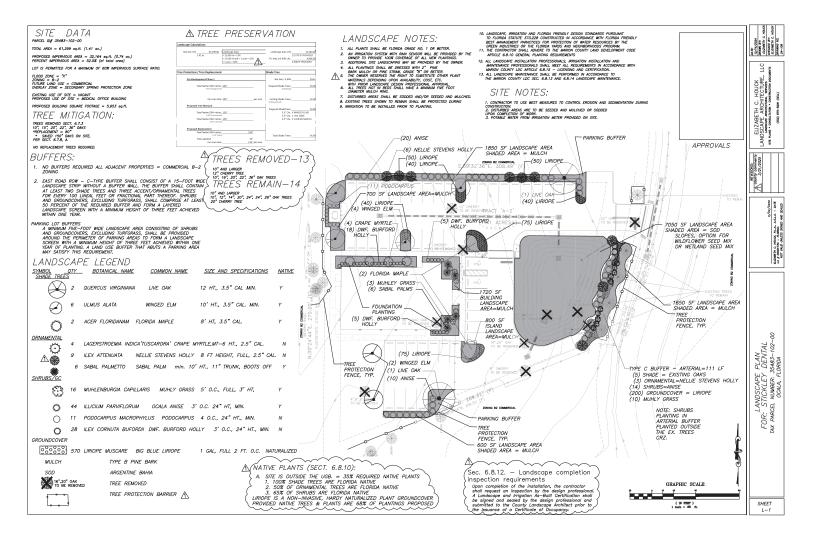
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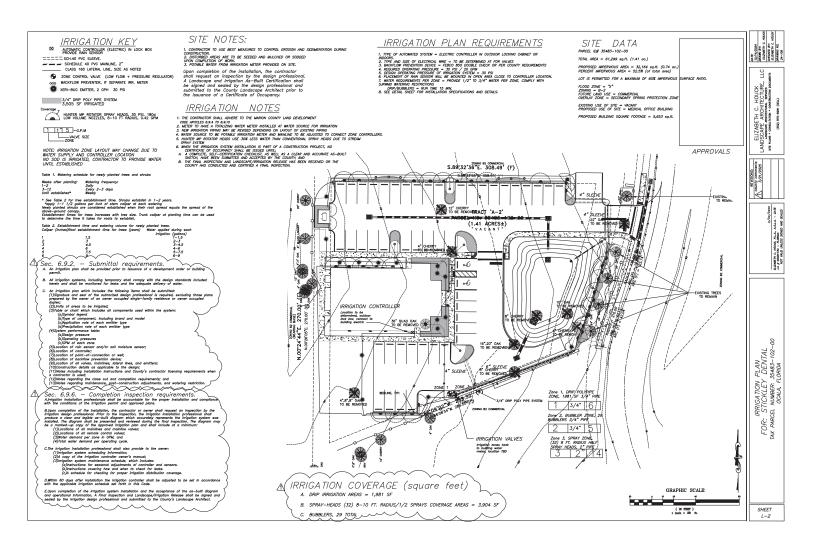
TAILS SITE PLAN KEITH E. RIDDLE, P.E. FLA. REGIS. NO. 38800













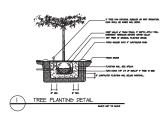
- This schematic irrigation plan serves primarily as a guide. The Contractor shall be entirely responsible for proper coverage and operation of the systems, including changes from the plan as necessary to adjust for actual site conditions.
- The Contractor shall be responsible for providing all labor, materials, and accessories required for complete irrigation systems meeting the performance requirements outlined herein.
- The water sources shall be meter water. Design data shall be verified by the Contractor prior to installation.

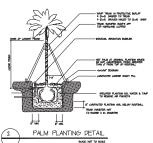
- All PVC pipe in the system less than 2° O.D. except risers, shall be Class 160 PSI Polyvinyl Chloride solvent weld pipe conforming to the ASTM-D2466, Type 1, requirements, NSF approved.

- 11. Verify the presence of all sleeving before commencing work. Where piping must poss under existing concrete or prevenent, it shall be jocked or jetted permission with the given by the Owner to cut proving. If this is measure, and cutting and replacing of the powing to match the existing shall be included under this section of the specifications.
- 12. All PVC piping and wiring shall be installed in the trenches with a minimum of 12" of cover and a maximum deith of 24", except where specific permission is obtained from the Landscope Architect and/or Darrer for less cover due to existing conditions. Where necessary because of landscoping, cover shall be as deep as regirted.
- 13. All flex pipe shall be buried to a depth of at least 4" (or covered with 3" of mulch) except where the tubing daylights over newly planted rootballs.
- 14. All emitters and flood bubblers shall be installed abutting the trunk/crown and be minimally visable above the mulch.
- The Controls will warrent the installation workmankly for a period of one year from date of jbb completion and ratiology release. The Controltor shall further see to the fulfillment of old manufacturer's worrentes and shall provide on Owner's Monutes. A reproduction on-built copied from the original provide on Owner's Monutes. A reproduction on-built copied from the original consistance.

NISTRIL RIL 120 VOLT—

2 PIPING/WIRING DETAIL
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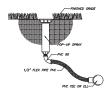


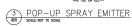
2 CONTROL VALVE DETAIL

(IRR) SCALE: NOT TO SCALE

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PEA GRAVES (6" SUMP)





LANDSCAPE NOTES

- All plants shall be Florida No. 1 or better, as outlined under <u>Grades and Standards for Nursery Plants</u>, Division of Plant Industries, State of Florida, latest edition.
- All work shall be performed in accordance with standard and accepted nursery practices in a workmanlike manner.
- The Landscape Contractor shall be responsible for the thorough removal of existing weeds and grass in the areas to be planted, including application(s) of appropriate herbicides before and after plant installation.
- Soil used for planting shall consist of two parts of the existing soil and one part domestic peat mass (or sandy fill in heavy soils), mixed with two lbs. fertilizer per cubic yard. Fertilizer shall be SLOW RELEASE for new plantings.
- Terra—Sorb, or approved equal, shall be incorporated into the planting soil of all trees in <u>sandy soils</u> only at the following rates:

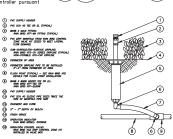
15 gallon containers = one (3 oz.) Handy Pac 30 gallon containers = two (3 oz.) Handy Pacs Up to 3' coliper = one (3 oz.) Handy Pac 4' to 5' caliper = two (3 oz.) Handy Pacs Prodecast 1/2 throughout the planting pit mix 1/2 with backfill.

- All plant beds shall be top-dressed with 3" of pine bark nuggets or pine straw.
- The Landscape Architect reserves the right to field locate or review flagged locations of any or all plant material.
- All balled and buriapped trees shall be hardened—off at the supplier's for a minimum of 30 days prior to shipping. All suppliers must be approved by the Landscape Architect prior to delivery and installation of the trees; any tree which shows signs of stress shall be replaced immediately at no charge to the Owner.
- No substitutions shall be permitted without prior approval from the Landscape Architect.
- 11. Guaranty (from time of job completion and retainage release): Trees and shrubs = 1 year
- Irrigation System to include backflow device and to be designed at 100% coverage using water supply. Rainsensor to be installed at controller pursuant to F.S. Chapter 373.





SUBSURFACE DRIP LAYOUT



O PRECIONE COMPONATING
DATA HERD YEAR SHOP
O PARTICE APPEAR AND HERD
O PARTICE APPEAR AND HERD
O PROBLE ORDER/TOP OF MALCH
O PROBLE STREY SPRENGER:
O POPE AND HERD SPRENGER:
O POP AND HERD SPRENGER:
O POP AND HERD SPRENGER:
O POP AND HERD SPRENGER:
O

PRESSURE COMPENSATING BUBBLER

SOALE NOT TO SCALE

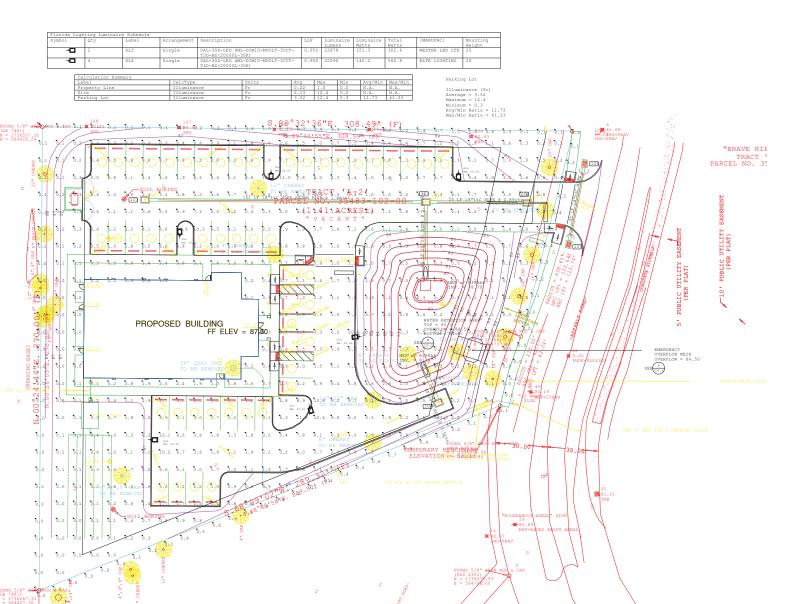
DATE:
12/14/2024
DRAWN BY:
CHECKED BY:
ELIZABETH C.
DRAMMS NO.
24-109 LLC

ELIZABETH C. HOUCK LANDSCAPE ARCHITECTURE, LANDSCAPE MONITORIAL SEWEES SITE PLANS * CHESTIATION * CONSTITUTION DOOD



APPROVALS

IRRIGATION PLAN FOR: STICKLEY DENTAL TAX PARCEL NUMBER: 35483-102-00 OCALA, FLORDA







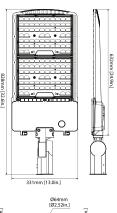


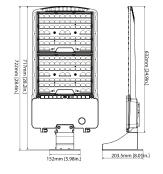


MOUNTING OPTIONS

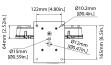


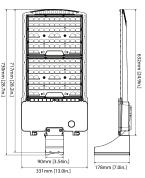


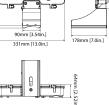


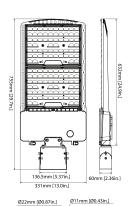












51mm [2.0in.] 95mm [3.74in.]

FEATURES

OAL-304-LED is easy to install and operate and has an instant start with zero flickering and humming. Choose to be eco-friendly with this fixture that consists of no mercury and is energy saving with a long lifespan. The soft and uniform light it emits has no UV or IR and is great for outdoor applications such as sports fields, stadiums, and gymnasiums as well as warehouses and transport stations.

LUMENS	20000L/28000L/36000/42000
ССТ	30K/40K/50K
CRI	80+
VOLTAGE	120-277 VAC
MOUNTING	Arm, Slipfitter, Wall, Trunnion, Pole
DISTRIBUTION	Type II, Type III, Type IV, Type V
EMERGENCY	O-EMG-8W
WORKING TEMPERATURE	-40°C (-40°F) to 50°C (122°F)
SURGE PROTECTION	6kV
EPA RATING	150W is 1.63 300W is 2.46
LIFETIME	L85 AT 100,000 Hours

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
42000	42000	300W
36000	36000	240W
28000	28000	180W
20000	20000	120W

Based on 4000K, 85+ CRI. Actual wattage may vary +/-5%

















OPTIC

Available in IES Type II, III, IV, V distributions

Light engines are available in adjustable color temperature (3000K & 4000K & 5000K) configurations.

Scalable Lumen Packages from 10,000 to 21,000 Lumens replaces up to 1000W Metal Halide.

Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

The optics can conform to dark sky requirement.

CONSTRUCTION

The rugged, one-piece die-cast aluminum housing features a complete heat sinkhat optimizes heat dissipation through convection cooling management. Low profile, 3G vibration rated compact design minimizes wind load requirements. Housing is completely sealed against moisture and environmental contaminants.

MOUNTING

Wall mounted for area light delivering uniform, widespread high output.

OPTIONS & ACCESSORIES

Optional photocell (PHC) detects changing light levels and saves energy by

turning off during the day Optional occupancy sensor

DIMMING & DRIVER INFORMATION

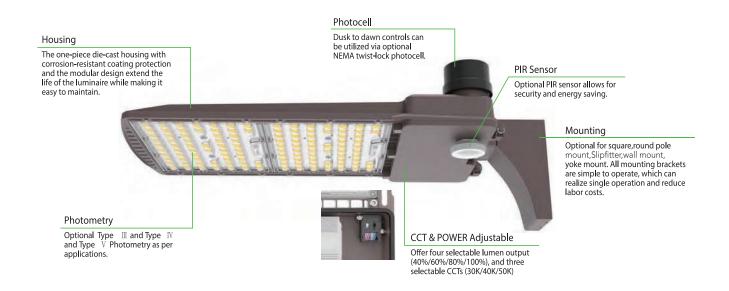
- Universal 120-277 VAC or 347-480 VAC input voltage
- · Standard with 0-10V dimming driver
- Power adjustable: 100%, 80%, 60%, 40%.
- THD: ≤20%
- Power Factor: ≥90%

WARRANTY

Five-year warranty for parts and components

LISTINGS

c-UL-us - Listed for Feed Through Wiring.



Example: OAL-304-LED-20000L/28000L/36000L/42000L-DIM10-MVOLT-30K/40K/50K-T3D-BZ-PM OAL-304-LED **MVOLT** 40K 20000 T4D

SERIES PERFORMANCE OAL-304-LED 20000L/28000L/36000L/42000L

DIMMING DIM10 0-10V Dimmina

VOLTAGE MVOLT - 120-277V 347-480V

CCT 30K/40K/50K

DISTRIBUTION ACCESSORIES T3D - Type III T4D- Type IV T5D-Type V

PHC - Photocell MS - Motion Sensor

SP- 10K Surge Protection T2D- Type II

OAI -204/304-ACC-PM OAL-204/304-ACC-PM-ADJ OAL-204/304-ACC-WM OAI -204/304-ACC-YM OAL-204/304-ACC-SFM

MOUNTING

FINISH

BZ- Bronze

BK- Black

WH-White

PM- Pole Mount WM- Wall Mount SFM- Slipfitter Mount AM- Arm Mount





	OAL-304-LED														
SETTING	SYSTEM WATTS	DIST.TYPE	CRI	300	10K	40	00K	5000K							
SETTING	STSTEM WATTS	DIST.TIFE	CKI	LUMENS	LPW	LUMENS	LPW	LUMENS	LPW						
100%	300 W	3	70	41000 lm	137 lm/W	45000lm	150 lm/W	42000 lm	140 lm/W						
80%	240 W	3	70	35000 lm	146 lm/W	38500lm	160 lm/W	36000 lm	150 lm/W						
60%	180 W	3	70	28000 lm	156 lm/W	30000lm	167 lm/W	28500 lm	158 lm/W						
40%	120 W	3	70	19200 lm	160 lm/W	21500lm	179 lm/W	20000 lm	167 lm/W						

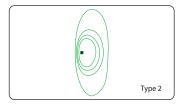
BUG RATING

SYSTEM WATTS	DIST. TYPE	В	U	G
	2	5	0	4
300W	3	4	0	4
00011	4	4	0	4
	5	5	0	4

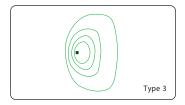
EPA OF AREA LIGHT

ltem	-						
	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
100W/140W/180W	0.3632	0.6849	0.8861	0.7264	1.0481	1.2078	1.0481
250W/300W/400W	0.4758	0.8091	1.059	0.9516	1.2849	1.3923	1.2849

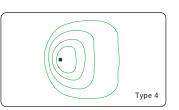
PHOTOMETRICS



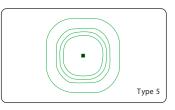
Type 2 optics are well-suited for scenarios requiring luminaires to be spaced at greater distances along a road or pathway. The light distribution pattern is designed for elongated areas, enabling increased pole spacing without compromising lighting quality.



Type 3 optics generate an asymmetrical pattern, directing the majority of light forward and evenly on both sides of the luminaire. When arranged in a back-to-back configuration, it forms a rectangular pattern that can extend the spacing between poles.



Type 4 is ideal for situations where the primary need is forward-directed light with minimal backlight. Common installations involve perimeter poles.



Type 5 optics create a symmetrical square distribution pattern, evenly distributing light on all sides of the luminaire. Type 5 luminaires are versatile and suitable for a wide range of area lighting applications.



MOUNTING

- Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles
- Optional for cast aluminum slipfitter mounting adapter.

Mounting Options



Pole Mount (4"and 5"Square and Round poles) Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.



Slipfitter Mount
An optional cast aluminum mast arm
adapter secures fixture head to nominal
2-3/8"O.D. horizontal steel tenon arm.



Wall Mount
Wall Mount is easy to install for direct
wall mounting with 1/2' conduit wiring or
standard J-box mounting



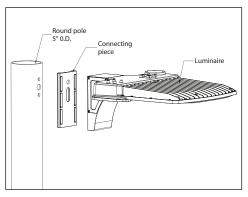
Yoke Mount

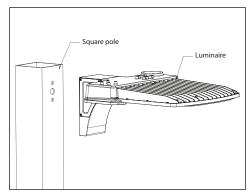
Die-cast aluminum trunnion is easily adapted to many surfaces and allows easy fixture aiming angles.

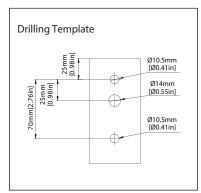


Adjustable Arm Mount
Standard versatile mounting arm is simple
to install and can be used with existing
poles for retrofit installations.

Mounting Dimensions







Note: CCT adjustable (3000 K/4000 K/5000 K) and power adjustable (100 %,

80%, 60%, 40%).

ACCESSORIES(Optional)

OAL series features a backlight control which provides reduced pixilation and increased visual comfort without compromising performance. External Glare Shield: sold separately or as an accessory.



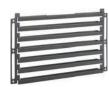


OAL-304-ACC-GLARE SHIELD

EXTERNAL GLARE SHIELD







Back Light Control Shield OAL-204/304-ACC-BLCS need 2 pcs





ADDITIONAL MOUNTING ACCESSORIES

POLE BRACKET • For mounting one fix	xture on an existing pole		
60mm(2 3/8in.) 1836mm(72.28in.) (V)E) www.	4" Square Pole Mount with 2-3/8" O.D. Tenon No. 45(2-5P-D) Finish: Dark Bronze U.SE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing, Fixtures mounted to this bracket can be adjusted both vertically and horizontally.	60mm(2 3/8 in) 2225mm(8.76in) 101.6mm(42)in)	4" Round Pole Mount with 2-3/8" O.D. Tenon NO. 45QR-SP-D Finish:Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.
60mm(2 3/8in.) (VE) 18 3.6mm(7 228in.) 12 25 1mm (5 m.)	5" Square Pole Mount with 2-3/8" O.D. Tenon No. 55Q-5P-D Finish: Dark Bronze USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.	60mm(2 3/8 in.) 2225mm(8.76in.) 131.86mm(5.19in.)	5" Round Pole Mount with 2-3/8" O.D. Tenon NO. 55QR-SP-D Finish:Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.
	Pole Bracket Accessories –Angle-Adjustment Adapter NO. SQA-ALDA Finish: Dark Bronze USE: Durable brackets are engineered to provide versatile mounting options. These arms are made from rugged die-cast aluminum. They allow optimal positioning of the light fixture to maximize the lighting effectiveness vertically and horizontally.	154.5±1mm(6.08 in.) (20 80 c) (Pole Bracket accessories-Tenon & Yoke Adaptor NO. SP-TR-D Finish: Dark Bronze USE: The 2-3/6" O'D Tenon Mount Adaptor for Yoke Fixtures is designed to mount. Ellic light fixtures that are equipped with a yoke mount onto a 2-3/8" O'D tenon. It may be utilized with the Ellic Flood Light Series of light fixtures.
	Horizontal Wall or Square or Round pole mount with 2-3/8" Tenon Bracket NO. SQ/R-SP-D Finish: Dark Bronze USE: This tenon bracket can be installed onto a wall , square pole , round pole. Provides wring access and abuilt-in 2-3/8" O.D. tenon to mount a fixture with our adjustable slipfitter. Suggested 3/8" diameter bolts for mounting.		
WALL BRACKET • Attaches to any to Provides wiring access		Mid-Pole tenon Bracket	
(2 3 76 in.) 1022±1 mm(4 in.) 2272.2mm(7.76 in.)	90" Wall Mount Bracket with 2-3/8" O.D. Tenon NO. WM-SP-D Finish: Dark Bronze USE: The 90" wall mount bracket with 2-3/8" tenon attaches an Ellic floodlight to almost any surface: wall, roof, or wood pole. Provides wring access and abulli-th 2-3/8" O.D. tenon to mount a fixture with our adjustable slipfitter. Suggested 3/8" diameter bolts for mounting. Mounting holes are spaced 3-1/4" apart.	185mm(7.28in.) 180mm(7.28in.) 180mm(7.28in.)	2-3/8" OD Horizontal Tenon Mid-Pole Bracket NO. SQ-SP-D Finish:Dark Bronze USE:2-3/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with a adjustable slipfitter onto a 2-3/8" OD horizontal tenon
Round External Mount Horizontal	Tenon · To mount 2/3/4 fixtures on a existing pole		
101.6mm/4(n) 101.6mm/2 is a 1 61.5mm/2.5in)	Double 90' Horizontal Tenon Adaptor NO. R60-592-90-D Finish:Dark Bronze USEThe Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally	101.6mm(4in.) 101.6mm(4in.) 103.6mm(2.5in.) 63.5mm(2.5in.)	Triple 120' Horizontal Tenon Adaptor NO. 860-5P3-120-D Finish:Dark Bronze USEThe Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally
101 6mm(4 n.) 60 mm(2 n.) 63 5mm(2 5in.)	Double 180' Horizontal Tenon Adaptor NO. R60-5P2-180-D Finish:Dark Bronze USEThe Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally	101 (Grand St. Z) (Grand St. Z	Quad 90' Horizontal Tenon Adaptor NO. 860-594-90-D Finish:Dark Bronze USEThe Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Four fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally
101.6mm/km) 101.6m	Triple 90' Horizontal Tenon Adaptor NO. 860-5P3-90-D Finish:Dark Bronze USETHe Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally		



TEST NO.: **EL11302360**

16.0 ft

18.0 ft

20.0 ft

50.7 fc

40.1 fc

32.4 fc

23.3 ft

26.2 ft

29.1 ft

112.0 ft

126.0 ft

140.0 ft

OAL-304-LED-20000L-28000L-36000L-42000L-DIM10-MVOLT-30K-40K-50K-T2D-BZ

PUT WATTS:	294.3		LUMENS: 4	8501		EF	FICA	CY: 10	35		BEAN	1 ANG	iLE: 6	6			•	SPAC	ING	CRITI	ER I A:	1.63
CAND	ELA DISTR			CA	NDEL	A TAB	LE	LU	MINA	ANCE (c	:d/sq.n	n)	LU	MENS	PER Z	ONE		ZON	AL LUI	ЛEN S	UMMA	RY
2000		909	•		0°	90)°			0.00°	90.00)°	Z	ONE	LUM	1ENS		ZONE	UMEN	ıs %	LUMIN	IAIRE
4000	THI	80°		0°	1297	7 129	977	0.0	0° 1	216731	12167	31	0°	- 10°	12	43	-	0° - 20°	4946	6	10%	
6000 8000		70°		10°	1320	0 134	124	45.0	oo° 1	629421	21577	94	10	° - 20°	37	02		0° - 30°	1105	6	23%	
10000		X/ /0·		20°	1334	5 144	150	55.0	00° 7	762963	28011	21	20	° - 30°	61	11		0° - 40°	1933	9	40%	
12000	·····	60°		30°	1392	4 152	246	65.0	00° 2	204356	36219	23	30	° - 40°	82	82		0° - 60°	3833	7	79%	
14000 16000		50°		40°	1387	1 159	923	75.0	00° -	176451	37298	19	40	° - 50°	96	12		0° - 80°	4802	2	99%	
18000	40	o°		50°	9687	7 166	527	85.0	00° 2	224950	61882	23	50	° - 60°	93	87		0° - 90°	4850	1	100%	ó
20000	30°			60°	2048	3 177	'28						60	° - 70°	68	53						
22000 0° 10	° 20°			70°	660	121	99						70	° - 80°	28	32						
				80°	350	37	85						80	° - 90°	4	79						
				90°	0	()															
c	ONE OF LI	GHT								IND	oor c	OEFFI	CIENT	S OF U	TILIZA	TION						
				ρf									20%									0%
MOUNTING	FC AT	BEAM	BEAM DIA.	ρς		80)%			70	1%			50%			30%			10%		0%
HEIGHT	BEAM	DIA.	90°-270°	ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	CENTER	0°-180°		0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
6.0 ft	360.5 fc	8.7 ft	42.0 ft	1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
8.0 ft	202.8 fc	11.6 ft	56.0 ft	2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
10.0 ft	129.8 fc	14.6 ft	70.0 ft	3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
12.0 ft	90.1 fc	17.5 ft	84.0 ft	4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
14.0 ft	66.2 fc	20.4 ft	98.0 ft	5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41

JT WATTS:	295.2		LUMENS: 44	4812		EF	FICA	CY: 15	52		BEAM	I ANG	LE: 8	30				SPACING CRITERIA: 1.9						
CAND	ELA DISTR			CA	CANDELA TABLE LUMINANCE (d					(cd/sq.m) LUMENS PER ZONE					ZONAL LUMEN SUMMARY									
2000		909			0°	90)°			0.00°	90.00)°	Z	ZONE	LUM	MENS		ZONE	UMEN	NS %	LUMIN	JAIRE		
4000		80°		0°	9469	94	69	0.0	0° 8	387856	88785	6	0	° - 10°	9	12		0° - 20°	3705	5	8%			
6000		70°		10°	10304	96	11	45.0	00° 16	696460	15688	60	10	° - 20°	27	'93		0° - 30°	8509)	19%			
8000		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		20°	11152	102	222	55.0	00° 1	565319	21305	95	20	° - 30°	48	804		0° - 40°	1523	4	34%			
10000		60°		30°	11868	3 110)52	65.0)0° 6	512328	32532	13	30	° - 40°	67	'25		0° - 60°	32049	9	72%			
12000		50°		40°	12849	117	'21	75.0)0° 2	297144	32973	46	40	° - 50°	81	23		0° - 80°	4397	3	98%			
14000	40)•		50°	12004	122	293	85.0	00° 7	737526	88278	31	50	° - 60°	86	93		0° - 90°	44812	2	100%	ó		
16000	30°			60°	6008	140)51						60	° - 70°	76	604								
18000 0° 10	, 20°			70°	1283	125	34						70	° - 80°	43	320								
				80°	625	42	41						80	° - 90°	8	39								
				90°	0	C)																	
С	ONE OF LI	GHT								IND	OOR C	OEFFI	CIENT	S OF U	TILIZA	ATION								
				ρf									20%									0%		
MOUNTING	FC AT	BEAM	BEAM DIA.	ρς		80)%			70	1%			50%			30%			10%		0%		
HEIGHT	BEAM	DIA.	90° - 270°	ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
	CENTER	0°-180°		0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
6.0 ft	263.0 fc	11.7 ft	53.2 ft	1	107	102	97	93	105	100	96	92	96	92	89	92	89	86	88	86	83	81		
8.0 ft	148.0 fc	15.7 ft	70.9 ft	2	96	87	80	73	94	85	78	72	82	76	71	78	73	69	75	71	67	65		
10.0 ft	94.7 fc	19.6 ft	88.6 ft	3	87	75	66	59	84	73	65	58	70	63	57	68	61	56	65	60	55	53		
12.0 ft	65.8 fc	23.5 ft	106.3 ft	4	79	65	56	48	76	64	55	48	61	54	47	59	52	47	57	51	46	44		
14.0 ft	48.3 fc	27.4 ft	124.0 ft	5	72	58	48	41	69	56	47	40	54	46	40	52	45	39	50	44	39	37		
16.0 ft	37.0 fc	31.3 ft	141.8 ft	6	66	51	42	35	64	50	41	34	48	40	34	47	39	34	45	38	33	31		
18.0 ft	29.2 fc	35.2 ft	159.5 ft	7	61	46	37	30	59	45	36	30	44	35	29	42	35	29	41	34	29	27		
20.0 ft	23.7 fc	39.1 ft	177.2 ft	8	56	42	32	26	54	41	32	26	39	32	26	38	31	26	37	30	25	23		
				9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
				10	49	35	26	21	47	34	26	21	33	26	21	32	25	20	31	25	20	18		



OAL-304-LED-20000L-28000L-36000L-42000L-DIM10-MVOLT-30K-40K-50K-T4D-BZ

INPUT WATTS: 300.1	LUMENS: 45098		EFFICA(CY: 150	[BEAM ANG	GLE: 63		SPACING CRITERIA: 2					
CANDELA DISTRIBUTION		NDELA	TABLE	LUMINA	NCE (c	d/sq.m)	LUMENS	PER ZONE	ZONA	L LUME	N SUMMARY			
2000	0	0°	90°		0.00°	90.00°	ZONE	LUMENS	ZONE	UMENS	% LUMINAIRE			
4000 80°	0°	9196	9196	0.00°	0	0	0° - 10°	896	0° - 20°	3709	8%			
6000	10°	10704	9386	45.00°	0	0	10° - 20°	2812	0° - 30°	8496	19%			
8000 70°	20°	11609	9979	55.00°	0	0	20° - 30°	4787	0° - 40°	15061	33%			
10000 12000	30°	11875	10516	65.00°	0	0	30° - 40°	6565	0° - 60°	31938	71%			
14000 50°	40°	12643	11161	75.00°	0	0	40° - 50°	7939	0° - 80°	44393	98%			
16000 40°	50°	13347	11842	85.00°	0	0	50° - 60°	8938	0° - 90°	45098	100%			
18000 30°	60°	10890	12868				60° - 70°	8219						
20000 10° 20°	70°	3231	8653				70° - 80°	4236						
	80°	948	1083				80° - 90°	705						
	90°	0	0											
CONE OF LIGHT					IND	OOR COEFF	ICIENTS OF U	TILIZATION						
	ρf						20%				0%			
	'													

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	255.4 fc	11.6 ft	31.1 ft
8.0 ft	143.7 fc	15.5 ft	41.5 ft
10.0 ft	92.0 fc	19.4 ft	51.9 ft
12.0 ft	63.9 fc	23.2 ft	62.3 ft
14.0 ft	46.9 fc	27.1 ft	72.7 ft
16.0 ft	35.9 fc	31.0 ft	83.0 ft
18.0 ft	28.4 fc	34.8 ft	93.4 ft
20.0 ft	23.0 fc	38.7 ft	103.8 ft

						IND	OUR C	UEFF	CIENI	S OF U	'I ILIZA	TION						
ρf									20%									0%
ρς		80)%			70)%			50%			30%			10%		0%
ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	102	97	93	105	100	96	92	96	92	89	92	89	86	88	86	83	81
2	96	87	80	73	94	85	78	72	82	76	70	78	73	69	75	71	67	65
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	59	55	53
4	78	65	55	48	76	64	55	48	61	53	47	59	52	46	56	51	46	43
5	71	57	47	40	69	56	47	40	54	46	39	52	45	39	50	44	39	36
6	65	51	41	34	63	50	41	34	48	40	34	46	39	33	45	38	33	31
7	60	46	36	30	58	45	36	29	43	35	29	42	34	29	40	34	29	27
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18

OAL-304-LED-20000L-28000L-36000L-42000L-DIM10-MVOLT-30K-40K-50K-T5D-BZ

TEST NO.: **EL11302360** INPUT WATTS: 298.8 LUMENS: 46013 EFFICACY: 154 SPACING CRITERIA: 2.00 x 2.00 BEAM ANGLE: 140 LUMINANCE (cd/sq.m) **CANDELA DISTRIBUTION CANDELA TABLE ZONAL LUMEN SUMMARY LUMENS PER ZONE** 1000 2000 3000 4000 5000 6000 7000 8000 10000 11000 12000 13000 10° 20° ZONE 0.00° 90.00° LUMENS ZONE UMENS % LUMINAIRE ٥° 90° 0° 6706 6706 0.00° 0 0 0° - 10° 650 0° - 20° 2656 6% 6770 6810 0 0 10° - 20° 2006 0° - 30° 6238 14% 10° 45.00° 70° 7072 7119 0 0 20° - 30° 3583 0° - 40° 11744 26% 20° 55.00° 60° 30° - 40° 0° - 60° 63% 8298 7618 65.00° 0 0 5506 28765 30° 8756 0 40° - 50° 7573 0° - 80° 45478 99% 9167 0 50° 75.00° 40° 50° - 60° 0° - 90° 46013 10151 9448 100% 9853 0 40° 50° 85.00° 0 30° 10240 60° - 70° 10173 60° 9569 70° - 80° 70° 6099 8446 6540 80° 430 399 80° - 90° 535 0 0 90° **CONE OF LIGHT** INDOOR COEFFICIENTS OF UTILIZATION

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	186.3 fc	33.2 ft	36.5 ft
8.0 ft	104.8 fc	44.2 ft	48.7 ft
10.0 ft	67.1 fc	55.3 ft	60.9 ft
12.0 ft	46.6 fc	66.3 ft	73.1 ft
14.0 ft	34.2 fc	77.4 ft	85.2 ft
16.0 ft	26.2 fc	88.4 ft	97.4 ft
18.0 ft	20.7 fc	99.5 ft	109.6 ft
20.0 ft	16.8 fc	110.5 ft	121.8 ft

						IND	OUR C	VEFF	CIENI	3 OF C	, i iliz <i>i</i>	AIION						
ρf									20%									0%
ρс		80)%			70)%			50%			30%			10%		0%
ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	101	95	91	103	98	93	89	94	90	86	90	87	84	86	84	81	79
2	94	84	76	69	91	82	74	68	78	72	66	75	69	65	72	67	63	61
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	61	55	50	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	33	31
6	62	47	37	29	60	46	36	29	44	35	29	42	34	28	40	33	28	26
7	57	42	32	25	55	41	31	25	39	31	24	38	30	24	36	29	24	22
8	53	38	28	21	51	37	28	21	35	27	21	34	26	21	33	26	21	19
9	49	34	25	19	47	33	25	19	32	24	18	31	24	18	30	23	18	16
10	46	31	22	17	44	31	22	16	29	22	16	28	21	16	28	21	16	14





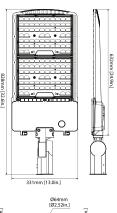


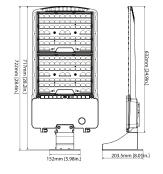


MOUNTING OPTIONS

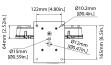


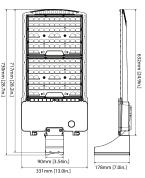


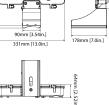


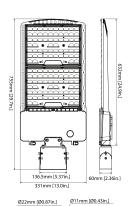












51mm [2.0in.] 95mm [3.74in.]

FEATURES

OAL-304-LED is easy to install and operate and has an instant start with zero flickering and humming. Choose to be eco-friendly with this fixture that consists of no mercury and is energy saving with a long lifespan. The soft and uniform light it emits has no UV or IR and is great for outdoor applications such as sports fields, stadiums, and gymnasiums as well as warehouses and transport stations.

LUMENS	20000L/28000L/36000/42000
ССТ	30K/40K/50K
CRI	80+
VOLTAGE	120-277 VAC
MOUNTING	Arm, Slipfitter, Wall, Trunnion, Pole
DISTRIBUTION	Type II, Type III, Type IV, Type V
EMERGENCY	O-EMG-8W
WORKING TEMPERATURE	-40°C (-40°F) to 50°C (122°F)
SURGE PROTECTION	6kV
EPA RATING	150W is 1.63 300W is 2.46
LIFETIME	L85 AT 100,000 Hours

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
42000	42000	300W
36000	36000	240W
28000	28000	180W
20000	20000	120W

Based on 4000K, 85+ CRI. Actual wattage may vary +/-5%

















OPTIC

Available in IES Type II, III, IV, V distributions

Light engines are available in adjustable color temperature (3000K & 4000K & 5000K) configurations.

Scalable Lumen Packages from 10,000 to 21,000 Lumens replaces up to 1000W Metal Halide.

Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

The optics can conform to dark sky requirement.

CONSTRUCTION

The rugged, one-piece die-cast aluminum housing features a complete heat sinkhat optimizes heat dissipation through convection cooling management. Low profile, 3G vibration rated compact design minimizes wind load requirements. Housing is completely sealed against moisture and environmental contaminants.

MOUNTING

Wall mounted for area light delivering uniform, widespread high output.

OPTIONS & ACCESSORIES

Optional photocell (PHC) detects changing light levels and saves energy by

turning off during the day Optional occupancy sensor

DIMMING & DRIVER INFORMATION

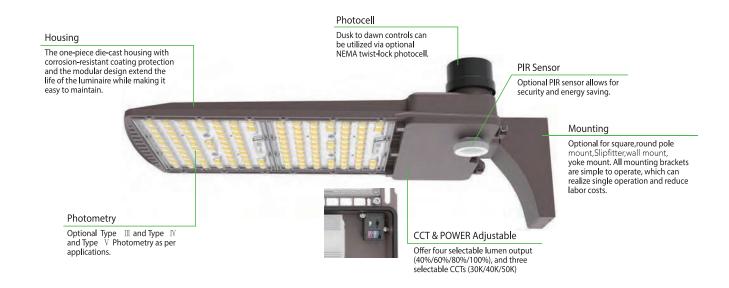
- Universal 120-277 VAC or 347-480 VAC input voltage
- · Standard with 0-10V dimming driver
- Power adjustable: 100%, 80%, 60%, 40%.
- THD: ≤20%
- Power Factor: ≥90%

WARRANTY

Five-year warranty for parts and components

LISTINGS

c-UL-us - Listed for Feed Through Wiring.



Example: OAL-304-LED-20000L/28000L/36000L/42000L-DIM10-MVOLT-30K/40K/50K-T3D-BZ-PM OAL-304-LED **MVOLT** 40K 20000 DIM₁₀ T3D SERIES DISTRIBUTION FINISH PERFORMANCE DIMMING VOLTAGE CCT ACCESSORIES MOUNTING OAL-304-LED MVOLT - 120-277V BZ- Bronze 20000L/28000L/36000L/42000L 30K/40K/50K T3D - Type III DIM10 PHC - Photocell OAI -204/304-ACC-PM OAL-204/304-ACC-PM-ADJ OAL-204/304-ACC-WM 0-10V Dimmina MS - Motion Sensor BK- Black 347-480V SP- 10K Surge Protection WH-White T4D- Type IV T2D- Type II OAI -204/304-ACC-YM T5D-Type V OAL-204/304-ACC-SFM





	OAL-304-LED														
SETTING	SETTING SYSTEM WATTS DIST.TYPE CRI 3000K 4000K 5000K														
SETTING	STSTEM WATTS	DIST.TIFE	CKI	LUMENS	LPW	LUMENS	LPW	LUMENS	LPW						
100%	300 W	3	70	41000 lm	137 lm/W	45000lm	150 lm/W	42000 lm	140 lm/W						
80%	240 W	3	70	35000 lm	146 lm/W	38500lm	160 lm/W	36000 lm	150 lm/W						
60%	180 W	3	70	28000 lm	156 lm/W	30000lm	167 lm/W	28500 lm	158 lm/W						
40%	120 W	3	70	19200 lm	160 lm/W	21500lm	179 lm/W	20000 lm	167 lm/W						

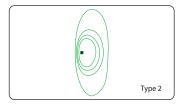
BUG RATING

SYSTEM WATTS	DIST. TYPE	В	U	G
	2	5	0	4
300W	3	4	0	4
00011	4	4	0	4
	5	5	0	4

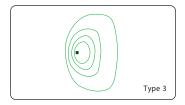
EPA OF AREA LIGHT

ltem	-						
	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
100W/140W/180W	0.3632	0.6849	0.8861	0.7264	1.0481	1.2078	1.0481
250W/300W/400W	0.4758	0.8091	1.059	0.9516	1.2849	1.3923	1.2849

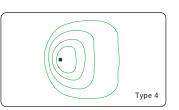
PHOTOMETRICS



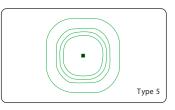
Type 2 optics are well-suited for scenarios requiring luminaires to be spaced at greater distances along a road or pathway. The light distribution pattern is designed for elongated areas, enabling increased pole spacing without compromising lighting quality.



Type 3 optics generate an asymmetrical pattern, directing the majority of light forward and evenly on both sides of the luminaire. When arranged in a back-to-back configuration, it forms a rectangular pattern that can extend the spacing between poles.



Type 4 is ideal for situations where the primary need is forward-directed light with minimal backlight. Common installations involve perimeter poles.



Type 5 optics create a symmetrical square distribution pattern, evenly distributing light on all sides of the luminaire. Type 5 luminaires are versatile and suitable for a wide range of area lighting applications.



MOUNTING

- Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles
- Optional for cast aluminum slipfitter mounting adapter.

Mounting Options



Pole Mount (4"and 5"Square and Round poles) Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.



Slipfitter Mount
An optional cast aluminum mast arm
adapter secures fixture head to nominal
2-3/8"O.D. horizontal steel tenon arm.



Wall Mount
Wall Mount is easy to install for direct
wall mounting with 1/2' conduit wiring or
standard J-box mounting



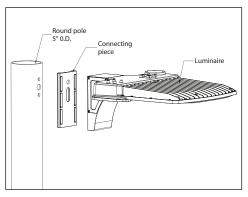
Yoke Mount

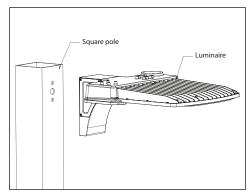
Die-cast aluminum trunnion is easily adapted to many surfaces and allows easy fixture aiming angles.

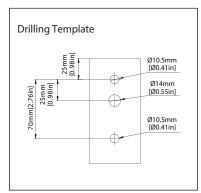


Adjustable Arm Mount
Standard versatile mounting arm is simple
to install and can be used with existing
poles for retrofit installations.

Mounting Dimensions







Note: CCT adjustable (3000 K/4000 K/5000 K) and power adjustable (100 %,

80%, 60%, 40%).

ACCESSORIES(Optional)

OAL series features a backlight control which provides reduced pixilation and increased visual comfort without compromising performance. External Glare Shield: sold separately or as an accessory.



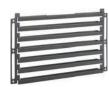


OAL-304-ACC-GLARE SHIELD

EXTERNAL GLARE SHIELD







Back Light Control Shield OAL-204/304-ACC-BLCS need 2 pcs





ADDITIONAL MOUNTING ACCESSORIES

POLE BRACKET • For mounting one fix	xture on an existing pole		
60mm(2 3/8in.) 1836mm(72.28in.) (V)E) www.	4" Square Pole Mount with 2-3/8" O.D. Tenon No. 45(2-5P-D) Finish: Dark Bronze U.SE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing, Fixtures mounted to this bracket can be adjusted both vertically and horizontally.	60mm(2 3/8 in) 2225mm(8.76in) 101.6mm(42)in)	4" Round Pole Mount with 2-3/8" O.D. Tenon NO. 45QR-SP-D Finish:Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.
60mm(2 3/8in.) (VE) 18 3.6mm(7 228in.) 12 25 1mm (5 m.)	5" Square Pole Mount with 2-3/8" O.D. Tenon No. 55Q-5P-D Finish: Dark Bronze USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.	60mm(2 3/8 in.) 2225mm(8.76in.) 131.86mm(5.19in.)	5" Round Pole Mount with 2-3/8" O.D. Tenon NO. 55QR-SP-D Finish:Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.
	Pole Bracket Accessories –Angle-Adjustment Adapter NO. SQA-ALDA Finish: Dark Bronze USE: Durable brackets are engineered to provide versatile mounting options. These arms are made from rugged die-cast aluminum. They allow optimal positioning of the light fixture to maximize the lighting effectiveness vertically and horizontally.	154.5±1mm(6.08 in.) (20 80 c) (Pole Bracket accessories-Tenon & Yoke Adaptor NO. SP-TR-D Finish: Dark Bronze USE: The 2-3/6" O'D Tenon Mount Adaptor for Yoke Fixtures is designed to mount. Ellic light fixtures that are equipped with a yoke mount onto a 2-3/8" O'D tenon. It may be utilized with the Ellic Flood Light Series of light fixtures.
	Horizontal Wall or Square or Round pole mount with 2-3/8" Tenon Bracket NO. SQ/R-SP-D Finish: Dark Bronze USE: This tenon bracket can be installed onto a wall , square pole , round pole. Provides wring access and abuilt-in 2-3/8" O.D. tenon to mount a fixture with our adjustable slipfitter. Suggested 3/8" diameter bolts for mounting.		
WALL BRACKET • Attaches to any to Provides wiring access		Mid-Pole tenon Bracket	
(2 3 76 in.) 1022±1 mm(4 in.) 2272.2mm(7.76 in.)	90" Wall Mount Bracket with 2-3/8" O.D. Tenon NO. WM-SP-D Finish: Dark Bronze USE: The 90" wall mount bracket with 2-3/8" tenon attaches an Ellic floodlight to almost any surface: wall, roof, or wood pole. Provides wring access and abulli-th 2-3/8" O.D. tenon to mount a fixture with our adjustable slipfitter. Suggested 3/8" diameter bolts for mounting. Mounting holes are spaced 3-1/4" apart.	185mm(7.28in.) 180mm(7.28in.) 180mm(7.28in.)	2-3/8" OD Horizontal Tenon Mid-Pole Bracket NO. SQ-SP-D Finish:Dark Bronze USE:2-3/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with a adjustable slipfitter onto a 2-3/8" OD horizontal tenon
Round External Mount Horizontal	Tenon · To mount 2/3/4 fixtures on a existing pole		
101.6mm/4(n) 101.6mm/2 is a 1 61.5mm/2.5in)	Double 90' Horizontal Tenon Adaptor NO. R60-592-90-D Finish:Dark Bronze USEThe Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally	101.6mm(4in.) 101.6mm(4in.) 103.6mm(2.5in.) 63.5mm(2.5in.)	Triple 120' Horizontal Tenon Adaptor NO. 860-5P3-120-D Finish:Dark Bronze USEThe Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally
101 6mm(4 n.) 60 mm(2 n.) 63 5mm(2 5in.)	Double 180' Horizontal Tenon Adaptor NO. R60-5P2-180-D Finish:Dark Bronze USEThe Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally	101 (Grand St. Z) (Grand St. Z	Quad 90' Horizontal Tenon Adaptor NO. 860-594-90-D Finish:Dark Bronze USEThe Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Four fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally
101.6mm/km) 101.6m	Triple 90' Horizontal Tenon Adaptor NO. 860-5P3-90-D Finish:Dark Bronze USETHe Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally		



TEST NO.: **EL11302360**

16.0 ft

18.0 ft

20.0 ft

50.7 fc

40.1 fc

32.4 fc

23.3 ft

26.2 ft

29.1 ft

112.0 ft

126.0 ft

140.0 ft

OAL-304-LED-20000L-28000L-36000L-42000L-DIM10-MVOLT-30K-40K-50K-T2D-BZ

PUT WATTS:	294.3		LUMENS: 4	8501		EF	FICA	CY: 10	35		BEAN	1 ANG	iLE: 6	6			•	SPAC	ING	CRITI	ER I A:	1.63
CAND	ELA DISTR			CA	NDEL	A TAB	LE	LU	MINA	ANCE (c	:d/sq.n	n)	LU	MENS	PER Z	ONE		ZON	AL LUI	ЛEN S	UMMA	RY
2000		909	•		0°	90)°			0.00°	90.00)°	Z	ONE	LUM	1ENS		ZONE	UMEN	ıs %	LUMIN	IAIRE
4000	THI	80°		0°	1297	7 129	977	0.0	0° 1	216731	12167	31	0°	- 10°	12	43	-	0° - 20°	4946	6	10%	
6000 8000		70°		10°	1320	0 134	124	45.0	oo° 1	629421	21577	94	10	° - 20°	37	02		0° - 30°	1105	6	23%	
10000		X/ /0·		20°	1334	5 144	150	55.0	00° 7	762963	28011	21	20	° - 30°	61	11		0° - 40°	1933	9	40%	
12000	·····	60°		30°	1392	4 152	246	65.0	00° 2	204356	36219	23	30	° - 40°	82	82		0° - 60°	3833	7	79%	
14000 16000		50°		40°	1387	1 159	923	75.0	00° -	176451	37298	19	40	° - 50°	96	12		0° - 80°	4802	2	99%	
18000	40	o°		50°	9687	7 166	527	85.0	00° 2	224950	61882	23	50	° - 60°	93	87		0° - 90°	4850	1	100%	ó
20000	30°			60°	2048	3 177	'28						60	° - 70°	68	53						
22000 0° 10	° 20°			70°	660	121	99						70	° - 80°	28	32						
				80°	350	37	85						80	° - 90°	4	79						
				90°	0	()															
c	ONE OF LI	GHT								IND	oor c	OEFFI	CIENT	S OF U	TILIZA	TION						
				ρf									20%									0%
MOUNTING	FC AT	BEAM	BEAM DIA.	ρς		80)%			70	1%			50%			30%			10%		0%
HEIGHT	BEAM	DIA.	90°-270°	ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	CENTER	0°-180°		0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
6.0 ft	360.5 fc	8.7 ft	42.0 ft	1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
8.0 ft	202.8 fc	11.6 ft	56.0 ft	2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
10.0 ft	129.8 fc	14.6 ft	70.0 ft	3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
12.0 ft	90.1 fc	17.5 ft	84.0 ft	4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
14.0 ft	66.2 fc	20.4 ft	98.0 ft	5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41

JT WATTS:	295.2		LUMENS: 44	4812		EF	FICA	CY: 15	52		BEAM	I ANG	LE: 8	30				SPACING CRITERIA: 1.93					
CAND	ELA DISTR			CA	NDEL	TAB	LE	LU	MINA	ANCE (c	d/sq.n	1)	LL	JMENS	PER Z	ONE		ZON	AL LUN	MEN S	SUMMA	RY	
2000		909			0°	90)°			0.00°	90.00)°	Z	ZONE	LUM	MENS		ZONE	UMEN	NS %	LUMIN	JAIRE	
4000		80°		0°	9469	94	69	0.0	0° 8	387856	88785	6	0	° - 10°	9	12		0° - 20°	3705	5	8%		
6000		70°		10°	10304	96	11	45.0	00° 16	696460	15688	60	10	° - 20°	27	'93		0° - 30°	8509)	19%		
8000		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		20°	11152	102	222	55.0	00° 1	565319	21305	95	20	° - 30°	48	804		0° - 40°	1523	4	34%		
10000		60°		30°	11868	3 110)52	65.0)0° 6	512328	32532	13	30	° - 40°	67	'25		0° - 60°	32049	9	72%		
12000		50°		40°	12849	117	'21	75.0)0° 2	297144	32973	46	40	° - 50°	81	23		0° - 80°	4397	3	98%		
14000	40)•		50°	12004	122	293	85.0	00° 7	737526	88278	31	50	° - 60°	86	93		0° - 90°	44812	2	100%	ó	
16000	30°			60°	6008	140)51						60	° - 70°	76	604							
18000 0° 10	, 20°			70°	1283	125	34						70	° - 80°	43	320							
				80°	625	42	41						80	° - 90°	8	39							
				90°	0	C)																
С	ONE OF LI	GHT								IND	OOR C	OEFFI	CIENT	S OF U	TILIZA	ATION							
				ρf									20%									0%	
MOUNTING	FC AT	BEAM	BEAM DIA.	ρς		80)%			70	1%			50%			30%			10%		0%	
HEIGHT	BEAM	DIA.	90° - 270°	ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
	CENTER	0°-180°		0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
6.0 ft	263.0 fc	11.7 ft	53.2 ft	1	107	102	97	93	105	100	96	92	96	92	89	92	89	86	88	86	83	81	
8.0 ft	148.0 fc	15.7 ft	70.9 ft	2	96	87	80	73	94	85	78	72	82	76	71	78	73	69	75	71	67	65	
10.0 ft	94.7 fc	19.6 ft	88.6 ft	3	87	75	66	59	84	73	65	58	70	63	57	68	61	56	65	60	55	53	
12.0 ft	65.8 fc	23.5 ft	106.3 ft	4	79	65	56	48	76	64	55	48	61	54	47	59	52	47	57	51	46	44	
14.0 ft	48.3 fc	27.4 ft	124.0 ft	5	72	58	48	41	69	56	47	40	54	46	40	52	45	39	50	44	39	37	
16.0 ft	37.0 fc	31.3 ft	141.8 ft	6	66	51	42	35	64	50	41	34	48	40	34	47	39	34	45	38	33	31	
18.0 ft	29.2 fc	35.2 ft	159.5 ft	7	61	46	37	30	59	45	36	30	44	35	29	42	35	29	41	34	29	27	
20.0 ft	23.7 fc	39.1 ft	177.2 ft	8	56	42	32	26	54	41	32	26	39	32	26	38	31	26	37	30	25	23	
				9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	
				10	49	35	26	21	47	34	26	21	33	26	21	32	25	20	31	25	20	18	



OAL-304-LED-20000L-28000L-36000L-42000L-DIM10-MVOLT-30K-40K-50K-T4D-BZ

INPUT WATTS: 300.1	LUMENS: 45098		EFFICA(CY: 150	[BEAM ANG	GLE: 63		SPAC	ING CF	RITERIA: 2.00
CANDELA DISTRIBUTION		NDELA	TABLE	LUMINA	NCE (c	d/sq.m)	LUMENS	PER ZONE	ZONA	AL LUME	N SUMMARY
2000	0	0°	90°		0.00°	90.00°	ZONE	LUMENS	ZONE	UMENS	% LUMINAIRE
4000 80°	0°	9196	9196	0.00°	0	0	0° - 10°	896	0° - 20°	3709	8%
6000	10°	10704	9386	45.00°	0	0	10° - 20°	2812	0° - 30°	8496	19%
8000 70°	20°	11609	9979	55.00°	0	0	20° - 30°	4787	0° - 40°	15061	33%
10000 12000	30°	11875	10516	65.00°	0	0	30° - 40°	6565	0° - 60°	31938	71%
14000 50°	40°	12643	11161	75.00°	0	0	40° - 50°	7939	0° - 80°	44393	98%
16000 40°	50°	13347	11842	85.00°	0	0	50° - 60°	8938	0° - 90°	45098	100%
18000 30°	60°	10890	12868				60° - 70°	8219			
20000 10° 20°	70°	3231	8653				70° - 80°	4236			
	80°	948	1083				80° - 90°	705			
	90°	0	0								
CONE OF LIGHT					IND	OOR COEFF	ICIENTS OF U	TILIZATION			
	ρf						20%				0%
	'										

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	255.4 fc	11.6 ft	31.1 ft
8.0 ft	143.7 fc	15.5 ft	41.5 ft
10.0 ft	92.0 fc	19.4 ft	51.9 ft
12.0 ft	63.9 fc	23.2 ft	62.3 ft
14.0 ft	46.9 fc	27.1 ft	72.7 ft
16.0 ft	35.9 fc	31.0 ft	83.0 ft
18.0 ft	28.4 fc	34.8 ft	93.4 ft
20.0 ft	23.0 fc	38.7 ft	103.8 ft

	INDOOR COEFFICIENTS OF UTILIZATION																	
ρf									20%									0%
ρς		80)%			70)%			50%			30%			10%		0%
ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	102	97	93	105	100	96	92	96	92	89	92	89	86	88	86	83	81
2	96	87	80	73	94	85	78	72	82	76	70	78	73	69	75	71	67	65
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	59	55	53
4	78	65	55	48	76	64	55	48	61	53	47	59	52	46	56	51	46	43
5	71	57	47	40	69	56	47	40	54	46	39	52	45	39	50	44	39	36
6	65	51	41	34	63	50	41	34	48	40	34	46	39	33	45	38	33	31
7	60	46	36	30	58	45	36	29	43	35	29	42	34	29	40	34	29	27
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18

OAL-304-LED-20000L-28000L-36000L-42000L-DIM10-MVOLT-30K-40K-50K-T5D-BZ

TEST NO.: **EL11302360** INPUT WATTS: 298.8 LUMENS: 46013 EFFICACY: 154 SPACING CRITERIA: 2.00 x 2.00 BEAM ANGLE: 140 LUMINANCE (cd/sq.m) **CANDELA DISTRIBUTION CANDELA TABLE ZONAL LUMEN SUMMARY LUMENS PER ZONE** 1000 2000 3000 4000 5000 6000 7000 8000 10000 11000 12000 13000 10° 20° ZONE 0.00° 90.00° LUMENS ZONE UMENS % LUMINAIRE ٥° 90° 0° 6706 6706 0.00° 0 0 0° - 10° 650 0° - 20° 2656 6% 6770 6810 0 0 10° - 20° 2006 0° - 30° 6238 14% 10° 45.00° 70° 7072 7119 0 0 20° - 30° 3583 0° - 40° 11744 26% 20° 55.00° 60° 30° - 40° 0° - 60° 63% 8298 7618 65.00° 0 0 5506 28765 30° 8756 0 40° - 50° 7573 0° - 80° 45478 99% 9167 0 50° 75.00° 40° 50° - 60° 0° - 90° 46013 10151 9448 100% 9853 0 40° 50° 85.00° 0 30° 10240 60° - 70° 10173 60° 9569 70° - 80° 70° 6099 8446 6540 80° 430 399 80° - 90° 535 0 0 90° **CONE OF LIGHT** INDOOR COEFFICIENTS OF UTILIZATION

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	186.3 fc	33.2 ft	36.5 ft
8.0 ft	104.8 fc	44.2 ft	48.7 ft
10.0 ft	67.1 fc	55.3 ft	60.9 ft
12.0 ft	46.6 fc	66.3 ft	73.1 ft
14.0 ft	34.2 fc	77.4 ft	85.2 ft
16.0 ft	26.2 fc	88.4 ft	97.4 ft
18.0 ft	20.7 fc	99.5 ft	109.6 ft
20.0 ft	16.8 fc	110.5 ft	121.8 ft

		INDOOR COEFFICIENTS OF CITIZATION																
ρf									20%									0%
ρς		80)%			70	1%			50%			30%			10%		0%
ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	101	95	91	103	98	93	89	94	90	86	90	87	84	86	84	81	79
2	94	84	76	69	91	82	74	68	78	72	66	75	69	65	72	67	63	61
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	61	55	50	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	33	31
6	62	47	37	29	60	46	36	29	44	35	29	42	34	28	40	33	28	26
7	57	42	32	25	55	41	31	25	39	31	24	38	30	24	36	29	24	22
8	53	38	28	21	51	37	28	21	35	27	21	34	26	21	33	26	21	19
9	49	34	25	19	47	33	25	19	32	24	18	31	24	18	30	23	18	16
10	46	31	22	17	44	31	22	16	29	22	16	28	21	16	28	21	16	14