



WHERE COMMUNITY AND SPIRIT MEET®

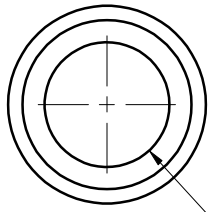
Bid #13837

NORTH KIRKWOOD ROAD IMPROVEMENT

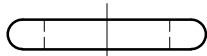
STP 5502(611)

Addendum #2

Question regarding what luminaire to use along N. Kirkwood Road is addressed under the “Questions” tab with corresponding drawings in the attachments titled “Kirkwood Road Luminaires on Decorative Mast Arm”.

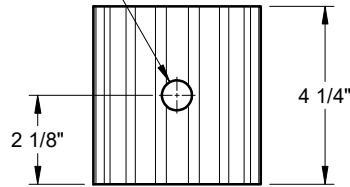


DRILL Ø3"
HOLE



DECORATIVE CAP DETAIL

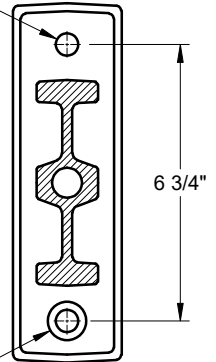
Ø3/4" HOLE
(DEBURR)



FLUTED TUBE DETAIL

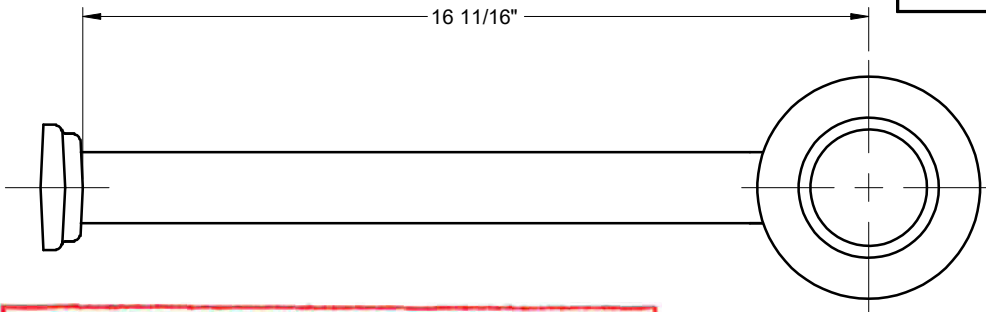
4" x .250" WALL 16 FLAT
FLUTED ALUMINUM
TUBE (6061-T4 ALLOY)

(2) Ø9/16"
HOLES



Ø15/16" x 1/4" DEEP
COUNTERBORE
BOTTOM HOLE
(FRONT SIDE OF CASTING)

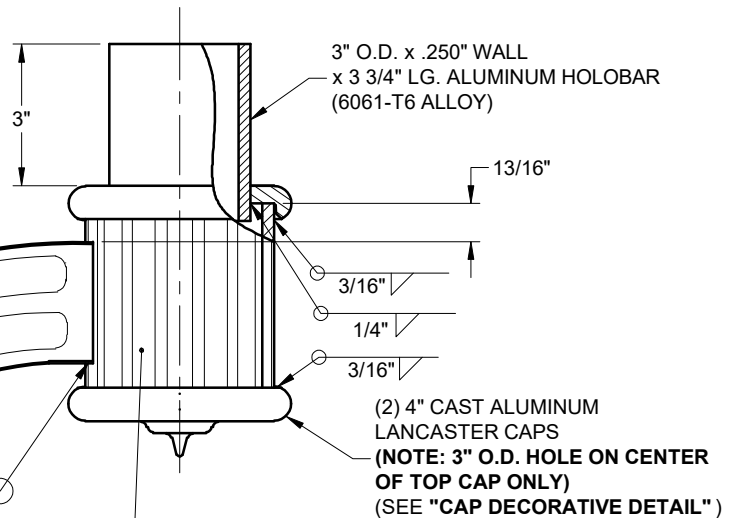
SECTION A-A



SHOP DRAWING REVIEW

No Exceptions Taken ☒
 Exceptions taken as noted ☐
 Resubmit with corrections ☐
 Contractor is not relieved of responsibility for
 compliance with plans & specifications.
CRAWFORD, MURPHY & TILLY, INC.

By John Keeven Date 01-24-2019



**NOTE: ASSEMBLY IS HEAT TREATED
TO T6 CONDITION AFTER WELDING**

valmont

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 20805 Eaton Ave. Farmington, Minnesota 55024-7932
 Phone: (651) 463-8990 (800) 899-7577 Fax: (651) 463-3349

CONFIDENTIAL

The information contained in this drawing is privileged and confidential,
 and may be protected from disclosure. Please be aware that any use or
 dissemination of this drawing may be subject to legal restriction or sanction.

DESC.:
ARM CAST BURNSVILLE 3"OD x 3"TN

PART NO: LX416578 MATERIAL:
 ALUMINUM ALLOY

DATE: 01.17.19 DRAWN BY: PVB CHK'D BY: DWG. NO:

REVISED: PROD APP: APPROVED BY: JRB PAGE:
 1 OF 1

MODEL # 1CA0211B30B

DO NOT SCALE

DESCRIPTION

The GAR/GAT/GLC Generation Series LED is a marriage of traditional shapes and contemporary styling. Its superior photometrics offer excellent illumination and uniformity for many of today's applications. Its styling blends well in many settings – historic districts, downtown streetscapes, roadways, residential neighborhoods, as well as city parks and educational campuses. The Generation Series LED sets a new standard for decorative post top luminaires.

Catalog #	GAR-080-LED-E1-3-CCA-BK	Type
Project	City of Kirkwood - Kirkwood Road Signal Optimization & Interconnect	F1
Comments	See Details Below	Date
Prepared by	Lighting Associates, Inc.	1.23.19

SPECIFICATION FEATURES

Construction

HOUSING: Heavy-duty cast aluminum housing and removable door. A single quarter turn fastener on the removable door provides tool-less access to wiring compartment. **CAGE ASSEMBLIES:** Cage assembly uprights and medallions are manufactured of heavy-duty cast aluminum and mounted to the exterior of the base housing via four stainless steel fasteners. Cage rings constructed of extruded aluminum and finished to match housing. **TOPS AND FINIALS:** Choose from multiple spun aluminum or acrylic tops and cast aluminum finials for customized fixture style. All solid tops are made of heavy-duty spun aluminum. **TWISTLOCK GLOBE:** The optional twistlock assembly offers ease of maintenance through instant access to both the LED and wiring compartment by twisting the top refractor assembly and lifting it from the mating lock plate.

Optical

REFRACTIVE GLOBE: High efficiency refractive optical systems are precisely designed utilizing a combination of refractive and reflective prisms. Available in Type III or Type V distributions. Lighting grade acrylic ensures long lasting optical clarity and resistance to discoloration.

Electrical

120-277V 50/60Hz operation. 10kV /10kA common- and differential mode surge protection standard. Thermal management transfers heat rapidly away from the LED source for optimal efficiency and light output. Ambient operating temperature from -40°C to 40°C. Standard three-position tunnel type compression terminal block.

Mounting

Base casting slipfits over a standard 3" O.D. tenon and secured via four stainless steel allen head fasteners. 3G vibration tested.

Finish

Cast and spun components finished in a five-stage premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Consult the McGraw-Edison Architectural Color brochure for a complete selection of standard colors including black, bronze, grey, white, dark platinum, graphite metallic and hartford green. RAL and custom color matches available.

Warranty

Five-year warranty.

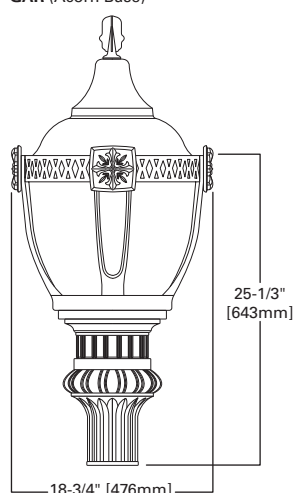
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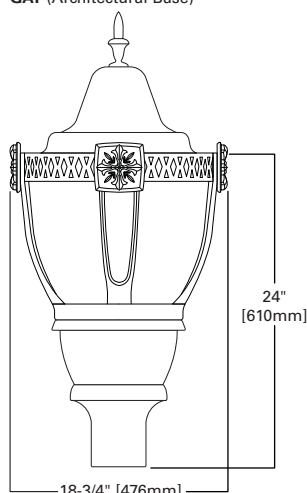
By John Keeven Date 01-24-2019

DIMENSIONS

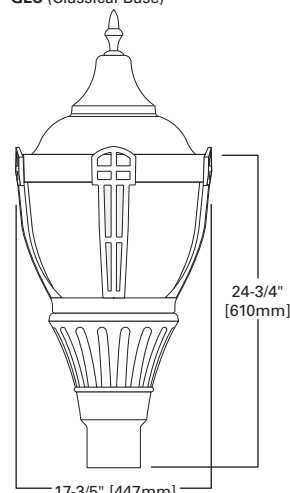
GAR (Acorn Base)



GAT (Architectural Base)



GLC (Classical Base)



GAR/GAT/GLC GENERATION SERIES LED

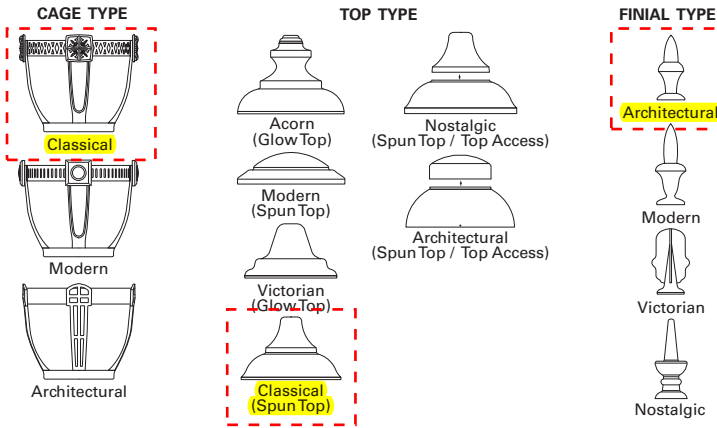
LED

DECORATIVE POST TOP
LUMINAIRE

EPA
Effective Projected Area: (Sq. Ft.)
2.1

SHIPPING DATA
Approximate Net Weight:
50 lbs. (23 kgs.)

CONFIGURATIONS



LUMEN TABLE

Distribution	Correlated Color Temperature (CCT)	Cage Type	Top Type	Total Lumens (Full Brightness)	Luminaire Wattage (Nominal)
Type III	4000K	None	Glow	11,060	99W
Type III	4000K	None	Solid	8,467	99W
Type III	4000K	Any	Glow	7,776	99W
Type III	4000K	Any	Solid	5,778	99W
Type V	4000K	None	Glow	10,571	99W
Type V	4000K	None	Solid	9,365	99W
Type V	4000K	Any	Glow	7,537	99W
Type V	4000K	Any	Solid	6,087	99W

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (36,000 Hours)	Theoretical L70 (Hours)
15°C	>93%	240,000
25°C	>92%	210,000
40°C	>89%	117,000

ORDERING INFORMATION

Sample Number: GAR-080-LED-E1-3-CXA-BK

Product Family ¹	LED Series	Lamp Type	Voltage	Refractor Type	Top Type	Cage Type	Finial Type	Color ²
GAR=Acorn Base GAT=Architectural Base GLC=Classical Base	080-LED=080 Series	LED=Solid State Light Emitting Diodes	E1=Electronic (120-277V)	3=Type III 5=Type V	A=Acorn C=Classical M=Modern V=Victorian N=Nostalgic (Top Access) R=Architectural (Top Access)	A=Architectural C=Classical M=Modern X=None	A=Architectural M=Modern N=Nostalgic V=Victorian X=None	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GN=Hartford Green GM=Graphite Metallic WH=White
Options (Add as Suffix)		Accessories (Order Separately)						
A=Twistlock Refractor B=Decorative Brass Banding ^{3,4} G=Gold Cage and Finial R=Internal NEMA Photocontrol Receptacle P=Polycarbonate Refractor 2L=Two Circuits SH=Street Side / House Side Switching		MA1252=10kV Surge Module Replacement GLR-080-E1=080 Series LED Series LED Replacement Module with 120-277V Universal Driver GLR-080-E1-2L=080 Series LED Series LED Replacement Module with 120-277V Universal Driver and Bi-Level Switching Capable GLR-080-E1-SH=080 Series LED Series LED Replacement Module with 120-277V Universal Driver and Street Side / House Side Switching Capable						

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- Other finish colors available, including a full line of RAL color matches. Consult your lighting representative at Eaton for more information.
- When brass banding is chosen, finial finished in gold.
- Not available with cage.

SHOP DRAWING REVIEW

No Exceptions Taken ☒ ☐ ☐

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