



August 19, 2014

Bell Engineering
Jim Buckles, P.E., BCEE, Senior Project Manager
2480 Fortune Drive, Suite 350
Lexington, KY 40509

RE: UK SOUTH CAMPUS PARKING LOT
OPERATION AND MAINTENANCE MANUAL
SECTION 165600 EXTERIOR LIGHTING

Dear Sir,

Please find attached to this letter the Exterior Lighting system installed on the above referenced project. In this manual, you will find:

- Plan Layout of conduit and Lighting
- Final shop drawings of the Lighting Fixtures and Poles
- Operation and Maintenance Manuals
- All Inspection Reports

Should you have any further questions regarding the contents of this manual, please contact me. You can call me on my cell phone at (859) 559-1001, or you can email me at dmurphy@atsconstruction.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dylan C. Murphy', written in a cursive style.

Dylan C. Murphy
Construction Management Engineer

cc: Brian Billings, PE ATS Construction - Vice President
Eric Patrick, ATS Construction – Project Superintendent
Richard Craycraft, ATS Construction - Engineering

Operation and Maintenance Manual

Section 165600 Exterior Lighting

Project 2393.0 South Campus Parking Lot University of Kentucky Lexington, KY

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Bell Engineering
2480 Fortune Drive,
Suite 350
Lexington, KY 40509
Phone: (859) 278-5412

Staggs & Fisher Consulting Engineers, Inc.
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Lexington, KY 40517
Phone: (859) 271-3246

Contractor:

ATS Construction
3009 Atkinson Ave, Suite 400
Lexington, KY 40509
Phone: (859) 223-7001

Subcontractors:

Fox Enterprises
408 Jason Dr.
Richmond, KY 40475
Phone: (859) 623-9963

Dixon Electric
516 W Fourth St
Lexington, KY 40508
Phone: (859) 276-2575

Lola Miller Services, Inc.
720 E. Loudon Ave.
Lexington, KY 40505
Phone: (859) 252-0720

Cedar Valley Seeding, Inc.
851 Redmon Road
Paris, KY 40361
Phone: (859) 987-1497

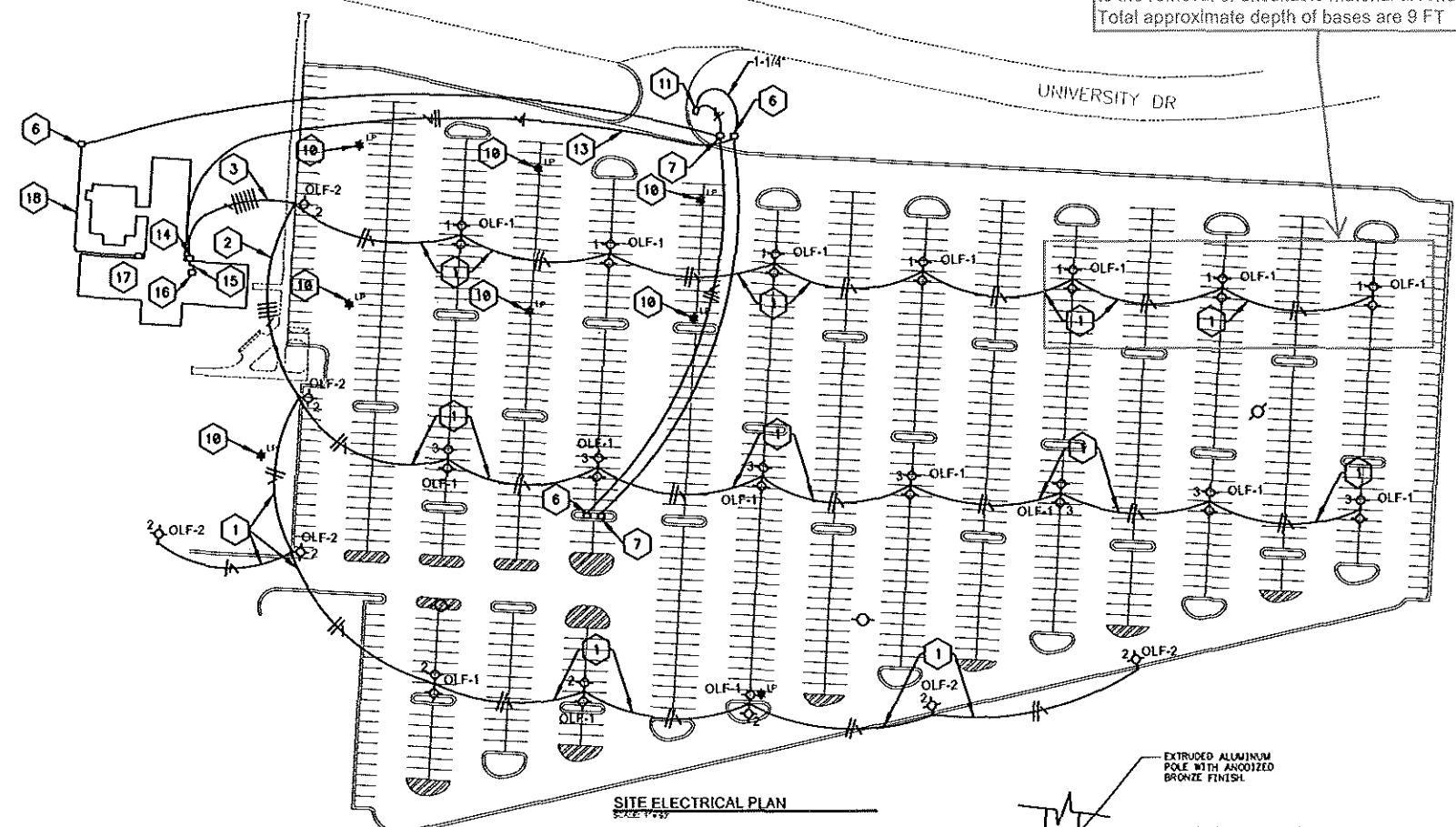
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Plan Drawings

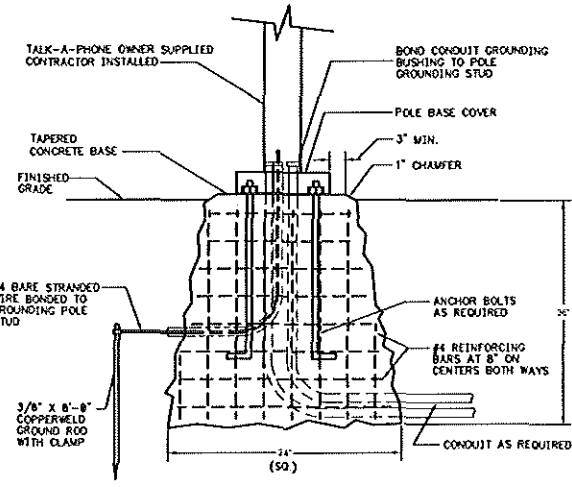
Section 165600
Exterior Lighting

Pole Base bottom elevation adjusted to 978.00 FT due to the removal of unsuitable material around poles. Total approximate depth of bases are 9 FT

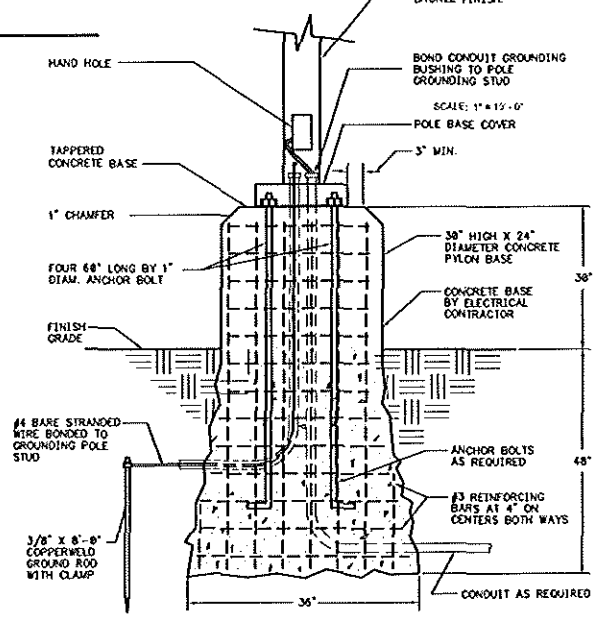


- GENERAL NOTES: SITE UTILITIES**
- A THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHANGED, UNCHARTED OR MISLOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
 - B THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING. THE OWNER WILL NOT LOCATE THESE UTILITIES FOR THE CONTRACTOR. IF AN EXISTING SERVICE OR COMPANY IS REQUIRED TO ACCURATELY LOCATE BURIED UTILITIES THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THIS WORK AND IS RESPONSIBLE FOR THE COSTS. THE CONTRACTOR SHOULD CONTACT APPROPRIATE UTILITY COMPANIES BEFORE DOING ANY EXCAVATION.
 - C LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
 - D INSTALL UNDERGROUND BRANCH CIRCUITS WITH 2" MINIMUM COVER.
 - E EXCAVATION MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIAL, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION.
 - F SITE LIGHTING CIRCUITS SHALL BE MINIMUM #6 CONDUCTORS IN 1-1/4" CONDUIT.

- CODED NOTES:**
- 1. 2#6'S (2 HOTS) AND 1#8 GND. IN 1-1/4" CONDUIT.
 - 2. 4#6'S (4 HOTS) AND 1#8 GND. IN 1-1/4" CONDUIT.
 - 3. 6#6'S (6 HOTS) AND 1#8 GND. IN 1-1/4" CONDUIT. TO 3 NEW 20A/2P BREAKERS IN EXISTING PANELBOARD.
 - 4. CONNECT NEW CONDUIT TO EXISTING PULL BOX. PULL NEW WIRING INTO EXISTING PANELBOARD.
 - 5. EXISTING PANELBOARD. PROVIDE 3 NEW 20A/2P BREAKERS TO FEED NEW LIGHTS. WIRING TO FEED TALK-A-PHONE.
 - 6. 12" X 12" X 4" DEEP SOLID BOTTOM FRP STRAIGHT QUASTE IN GROUND BOX WITH GASETTED TIVO BOLT COVER. TIER 15 (15 000 22 00 18) LOAD RATING. LABEL BOXES "ELECTRIC" FOR POWER AND "COMMUNICATIONS" FOR FIBER. FINAL BOX LOCATIONS WILL BE FIELD LOCATED AND MAY MOVE TO PARKING ROWS TO THE SOUTH.
 - 7. EXTEND 4" O'S AND #8 GND. TO TALK-A-PHONE FOR 120V POWER. COIL #6'S IN PULL BOX FOR FUTURE EXTENSION TO BUS STOP. FINAL BOX LOCATIONS WILL BE FIELD LOCATED AND MAY MOVE TO PARKING ROWS TO THE SOUTH.
 - 8. EMERGENCY CALL BOX. PROVIDE 1-1/4" CONDUIT TO COMMUNICATION ROOM IN GOOD BARN FOR FUTURE.
 - 9. 2#6'S AND 1#8 GND. TO NEW 20A/1P BREAKER IN PANELBOARD IN THE GOOD BARN.
 - 10. REMOVE EXISTING LIGHT FIXTURE CONCRETE BASE AND ALL BRANCH CIRCUIT WIRING. SALVAGE AND DELIVER FIXTURE AND POLE TO THE FPD DIVISION.
 - 11. TALK-A-PHONE. PROVIDE POWER AND COMMUNICATION CONDUIT.
 - 12. CONDUIT FOR FIBER. FIBER TO BE INSTALLED BY OWNER.
 - 13. 2#6'S (TWO HOTS AND ONE NEUTRAL) AND 2#10'S (2 HOTS AND ONE NEUTRAL AND 1#8 GND).
 - 14. TERMINATE POWER FEEDS INTO EXISTING EXTERIOR PULL BOX AFTER REMOVING EXISTING CONDUIT AND BRANCH CIRCUIT WIRING THAT FEED EXISTING LIGHTS.
 - 15. INSTALL NEW WIRING IN EXISTING 1-1/4" CONDUIT. TERMINATE WIRE FOR NEW LIGHTS AND TALK-A-PHONE. PULL WIRING FOR THE FUTURE BUS SHELTER IN AND MAKE FOR SPARE IN PANELBOARD GUTTER.
 - 16. EXISTING SQUARE D PANELBOARD. PROVIDE 3 NEW 20A/2P AND 1 20A/1P BREAKERS FOR NEW LIGHTS AND TALK-A-PHONE. MARK EXISTING LIGHTING BREAKERS AS SPARE FOR FUTURE BUS STOP.
 - 17. CONNECT TO EXISTING SURFACE MOUNTED COMMUNICATION PULL BOX.
 - 18. 1-1/4" CONDUIT FOR OWNER INSTALLED FIBER.



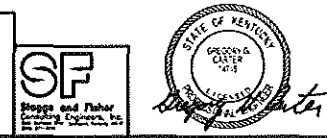
TALK-A-PHONE BASE DETAIL STANDARD
NO SCALE



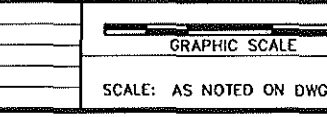
DETAIL OF PYLON BASE FOR LIGHTING FIXTURES OLF-1 & OLF-2
NO SCALE

- LIGHT FIXTURE SCHEDULE:**
- OLF-1 LED AREA LIGHT WITH LOW COEFFER RECAST ALUMINUM FINNED HOUSING, REMOVABLE POWER DOOR, STAINLESS STEEL LATCHES, CAST ALUMINUM ARCHITECTURAL POLE MOUNT NO JAW, 100 000 HOUR LED PAIRED LED LIGHT ENGINE, TYPICAL MEDIUM DISTRIBUTION 24 218 DELIVERED LUMENLED APPAR, CSA LISTED FOR WET LOCATIONS, AND LIMITED FIVE YEAR WARRANTY. TO BE MOUNTED TO A 60" STRAIGHT SQUARE STEEL POLE AT 180 DEGREES.
 - H00GFHVE M8GLED 6008 24 151 1 A 55540 0413
LITHONIA EQUAL
 - OLF-2 LED AREA LIGHT WITH LOW COEFFER RECAST ALUMINUM FINNED HOUSING, REMOVABLE POWER DOOR, STAINLESS STEEL LATCHES, CAST ALUMINUM ARCHITECTURAL POLE MOUNT NO JAW, 100 000 HOUR LED PAIRED LED LIGHT ENGINE, TYPICAL MEDIUM DISTRIBUTION 24 218 DELIVERED LUMENLED APPAR, CSA LISTED FOR WET LOCATIONS, AND LIMITED FIVE YEAR WARRANTY. ONE FIXTURE TO BE MOUNTED TO A 42" STRAIGHT SQUARE STEEL POLE AT 180 DEGREES.
 - H00GFHVE M8GLED 6008 24 151 1 A 55540 0423
LITHONIA EQUAL

NOTE:
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTING CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.



DESIGNER	DESIGNER	DATE	BY	REVISION
DRAWN	DRAWN			
CHECKED	CHECKED?			
APPROVED	APPROVED			



ALL RIGHTS RESERVED
THIS DOCUMENT IS THE PROPERTY OF M&S ENGINEERING AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION OF M&S ENGINEERING.
LICENSES OF LICENSED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR SEALS IF APPLIED TO THIS DOCUMENT SHALL BE CONSIDERED VALID ONLY IF SIGNED AND DATED BY THE REGISTRANT.

2393.0 SOUTH CAMPUS PARKING LOT
CAPITAL PROJECT MANAGEMENT DIVISION
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

Lexington, KY (859) 278-5412
Hopkville, KY (270) 886-5468

SITE UTILITIES PLAN

DIVISION GENERAL
CONTRACT NO. 600-001
DATE APRIL 2014
SHEET NO. U10


Shop Drawings/Installation/Maintenance

Section 165600
Exterior Lighting


LED LIGHT FIXTURE

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION**


- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service of luminaires should be performed by a **qualified licensed electrician**.
- Maintenance of the luminaires should be performed by person(s) familiar with the luminaires' construction and operation and any hazards involved. Regular fixture maintenance programs are recommended.
- It will occasionally be necessary to clean the outside of the refractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should optical assembly become dirty on the inside, wipe refractor/lens and clean in above manner, replacing damaged gaskets as necessary.
- **DO NOT INSTALL DAMAGED PRODUCT!** This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
- Recycle: For information on how to recycle LED electronic products, please visit www.epa.gov.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to Acuity Brands Lighting, Inc.

 **WARNING**
RISK OF ELECTRIC SHOCK


- ✓ Disconnect or turn off power before installation or servicing.
- ✓ Verify that supply voltage is correct by comparing it with the luminaire label information.
- ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- ✓ All wiring connections should be capped with UL approved recognized wire connectors.

 **WARNING**
RISK OF BURN

- ✓ Allow lamp/fixture to cool before handling. Do not touch enclosure or light source.
- ✓ Do not exceed maximum wattage marked on luminaire label.
- ✓ Follow all manufacturer's warnings, recommendations and restrictions for: driver type, burning position, mounting locations/methods, replacement and recycling.

 **CAUTION**
RISK OF INJURY

- ✓ Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- ✓ Avoid direct eye exposure to the light source while it is on.

 **CAUTION**
RISK OF FIRE

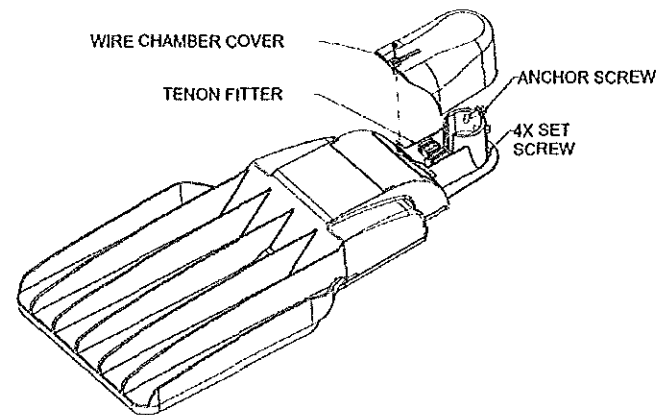
- ✓ Keep combustible and other materials that can burn, away from lamp/lens.
- ✓ Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.

- Torque Wrench (ft.-lbs.)
- Phillips Head Screw Driver
- Mounting Bolts
- Photocontrol Adjustment

2.2 Tenon Mounting

- 2.2.1** Loosen the screw holding the wire chamber cover to the tenon fitter and remove the cover.
- 2.2.2** Being careful not to pinch supply wires, slide the fixture onto the tenon until the tenon seats against the anchor screw. See Figure 1.

Figure 1



GR2119

- 2.2.3** Align the fixture as necessary and then adjust the appropriate set screws until the base of the tenon fitter is level.
- 2.2.4** Tighten the set screws from 14-17 ft-lbs.
- 2.2.5** Make the appropriate electrical connections. If not using a terminal block use wire rated for at least 75 degree C.
- 2.2.6** Supply wire connections may be made either in the tenon fitter wire area or housing. Tenon is standard.
- 2.2.7** Secure the supply wires with a wire tie in such a way as to relieve stress on the wire connections.
- 2.2.8** Replace the wire chamber cover and tighten the screw.

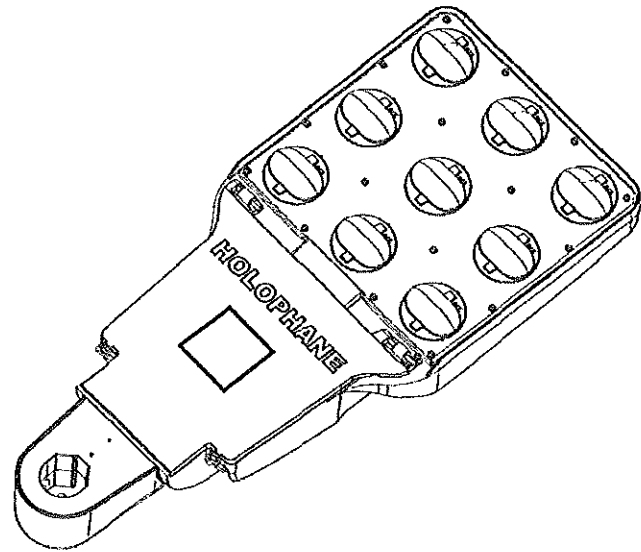
CAUTION

BE CERTAIN THAT NO WIRING IS PINCHED BETWEEN THE WIRE CHAMBER COVER AND TENON FITTER.

- 2.2.9** Electrically energize the unit and check for proper operation.

2.3 Horizontal Arm Mounting

- 2.3.1** Loosen the screw holding the wire chamber cover in place and remove the cover.
- 2.3.2** Being careful not to pinch the supply wires, slide the fixture onto the mounting arm until the seats against the internal stops.
- 2.3.3** Align the fixture as necessary and then adjust the appropriate clamp bolts until the fitter is level. See figure 2.
- 2.3.4** Tighten the clamp bolts for 15-17 ft-lbs.
- 2.3.5** Follow steps beginning at 2.2.5



GR2118

INTRODUCTION

1.1 Product Description

The Mongoose LED luminaire has been listed to applicable U.S. & Canadian safety standards by Underwriters Laboratories Inc. It is suitable for use in wet locations and ambient temperatures up to 40°C.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- The LED driver/door assembly can be detached for repair by unlatching door latches, one cotter pin, and unplugging electrical connectors.

1.2 Alternate Information Sources. If additional questions arise relative to these luminaires that this document or your supplier cannot answer, please refer them to:

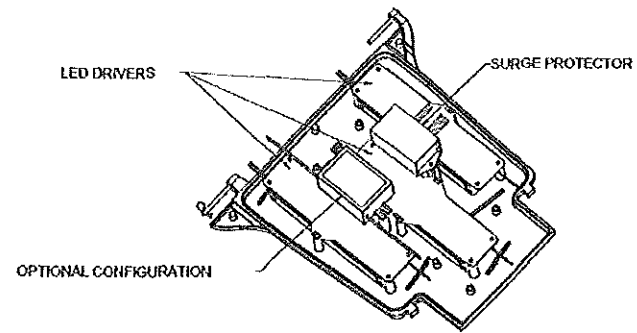
Holophane
Field Service Department
P.O. Box 3004
Newark, OH 43058-3004
(740) 345-9631

2 INSTALLATION

2.1 Tools and Materials Required.

DESCRIPTION	USE
1/4" Hex for 9/16" Hex	Mounting Bolts
Flat-end screwdriver	Terminal Block/Clamp Band

Figure 5



GR2119

Acuity Lighting Group, Inc.
214 Oakwood Ave., Newark, OH 43055
IM-352-C 12/17 ©2013 Acuity Brands Inc.
Visit our web site at www.holophane.com

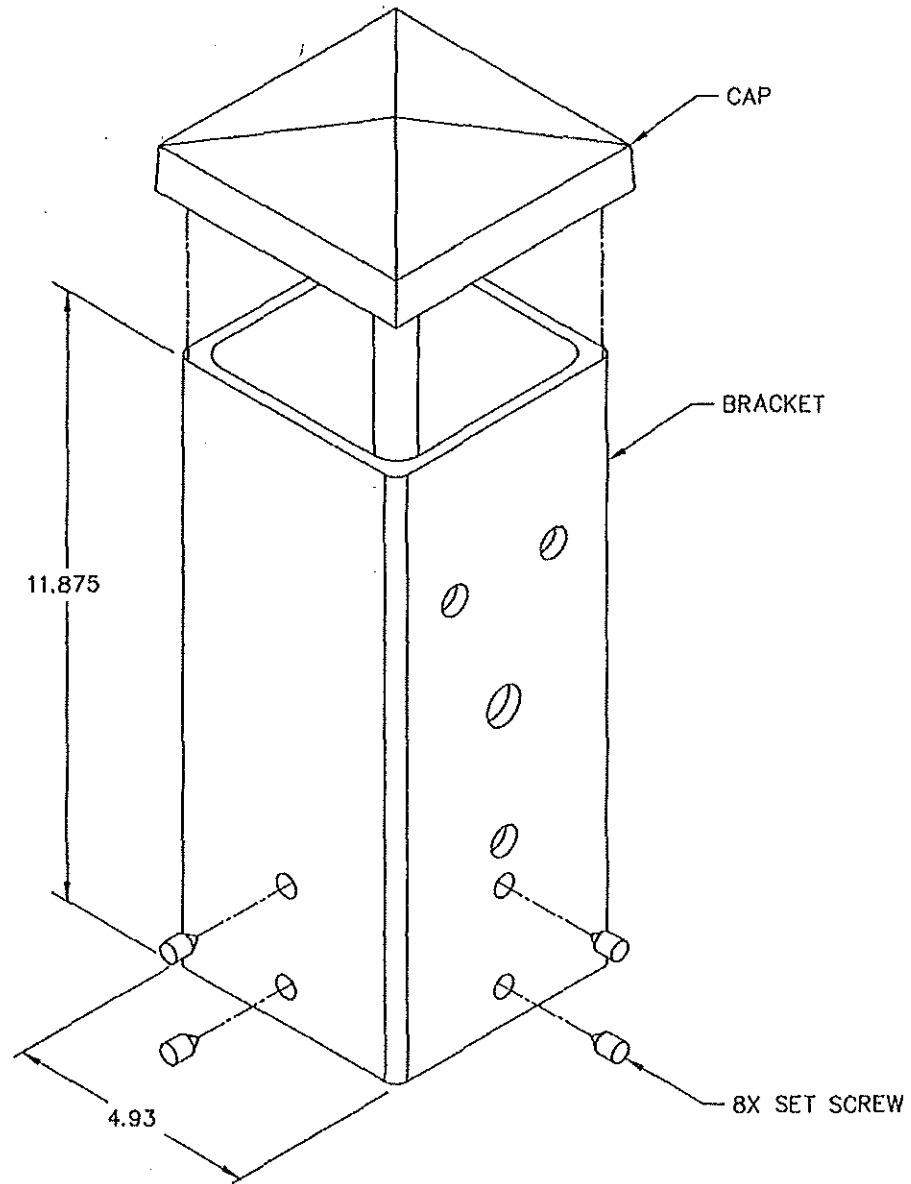
4 Limited Warranty and Limitation of Liability

The Holophane limited warranty and limitation of liability is published in the "Terms and Conditions" section of the current Holophane buyer's guide, and is available from your local Holophane sales representative.



HOLOPHANE®

09237-1-BZ



NOTE:

09237-X WHERE X=DRILL PATTERNS 1, 2, 2L, 3 OR 4.

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ORDER NO: _____
 TYPE: OLE1/2
 DRAWING NO: _____
 CAD MODEL: 09237.DWG
 DATE: 1/07/02
 SHEET 1 OF 1

LIGHTING CONTACTOR



Replaces / Reemplaza / Remplace 30072-013-32B 6/1999

Mechanically Held AC Lighting Contactor Contactor de alumbrado de ~ (ca) mecánicamente sostenido Contacteur d'éclairage ca retenu mécaniquement

Class Clase Classe	Type Tipo Type	Series Serie Série	A	Poles Polos Pôles
8903	LX	B	20	2, 3, 4, 6, 8, 10, 12

Retain for future use. / Conservar para uso futuro. / À conserver pour usage ultérieur.

INTRODUCTION

This contactor comes with coil clearing contacts and a double-throw status contact as standard. The standard contactor is shipped with all poles normally open (N.O.). However, all poles are convertible and a maximum of six poles can be normally closed (N.C.) at one time.

NOTE: Do not bypass the coil clearing contacts on this device. Bypassing the coil clearing contacts will shorten the coil life and cause an AC hum. The contactor coils are not continuously rated.

INTRODUCCIÓN

Este contactor cuenta con contactos de desactivación de las bobinas y un estado de doble tiro como estándar. El contactor estándar viene con todos los polos normalmente abiertos (N.A.), los cuales pueden convertirse. Solamente 6 polos pueden estar normalmente cerrados (N.C.) al mismo tiempo.

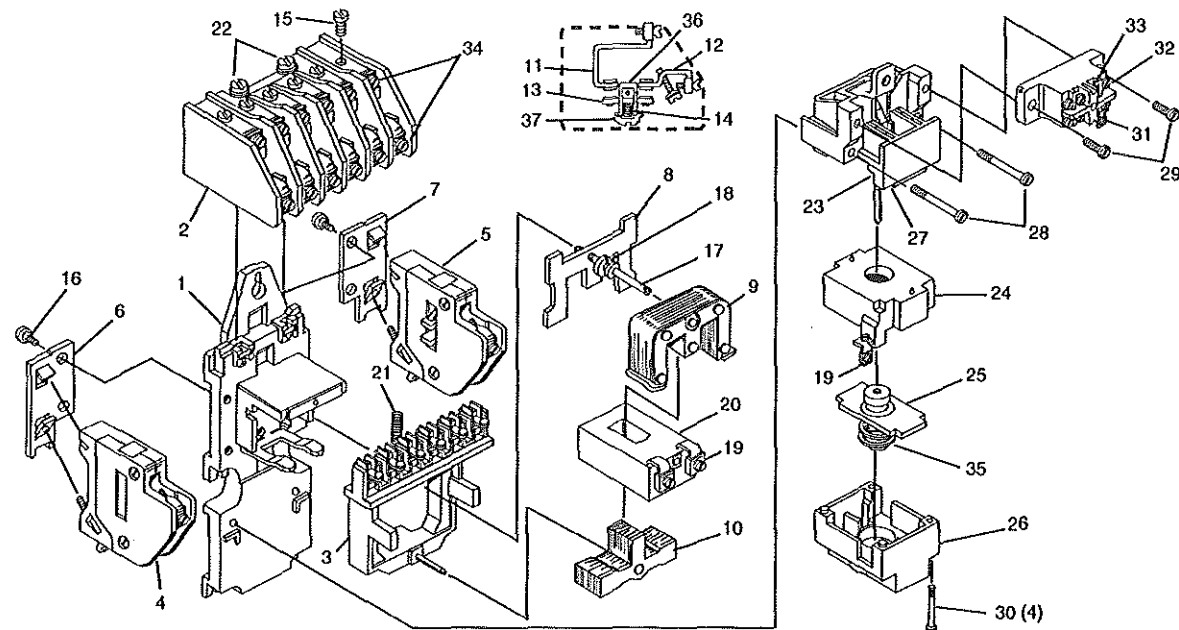
NOTA: No ponga en derivación los contactos de desactivación de las bobinas en este dispositivo. Al poner en derivación los contactos se acortará la vida útil de la bobina y se producirá un zumbido de corriente alterna. Las bobinas del contactor no trabajan continuamente.

INTRODUCTION

Ce contacteur inclut des contacts de désactivation des bobines et un état bidirectionnel en version standard. Le contacteur standard est expédié avec tous les pôles normalement ouverts (N.O.), mais tous les pôles sont convertibles et 6 pôles maximum peuvent être normalement fermés (N.F.) en même temps.

REMARQUE : Ne contournez pas les contacts de désactivation des bobines sur cet appareil. Le contournement de ces contacts diminue la durée de vie de la bobine et occasionne un bourdonnement en ca. Les bobines du contacteur ne fonctionnent pas de façon continue.

Figure / Figura / Figure 1 : Contactor Assembly / Ensamble del contactor / Assemblage du contacteur



⚠ DANGER / PELIGRO / DANGER

HAZARDOUS VOLTAGE

Disconnect all power before working on equipment.

Failure to follow this instruction will result in death or serious injury.

TENSIÓN PELIGROSA

Desenergice el equipo antes de realizar cualquier trabajo en él.

El incumplimiento de esta precaución podrá causar la muerte o lesiones serias.

TENSION DANGEREUSE

Coupez l'alimentation avant de travailler sur cet appareil.

Si cette précaution n'est pas respectée, cela entraînera la mort ou des blessures graves.



⚠ WARNING / ADVERTENCIA / AVERTISSEMENT

UNINTENTIONAL EQUIPMENT OPERATION	FUNCIONAMIENTO ACCIDENTAL DEL EQUIPO	FONCTIONNEMENT INVOLONTAIRE DE L'APPAREIL
Disconnect all power before manually operating equipment to avoid contact arcing and unexpected load energization. Failure to follow this instruction can result in death, serious injury or equipment damage.	Desenergice el equipo antes de hacerlo funcionar manualmente para evitar la formación de arcos en los contactos y la energización inesperada de carga. El incumplimiento de esta precaución puede causar la muerte, lesiones serias o daño al equipo.	Coupez toute l'alimentation avant d'actionner manuellement cet appareil, pour éviter la formation d'arcs électriques sur les contacts ou une alimentation inattendue de la charge. Si cette précaution n'est pas respectée, cela peut entraîner la mort, des blessures graves ou des dommages matériels.

MANUAL OPERATION

To operate the contactor manually:

1. Disconnect all power from the contactor.
2. To latch the contactor, depress the latch rod (Figure 2) with an electrically insulated tool.
3. To unlatch the contactor, depress the armature ring (Figure 2) with an electrically insulated tool.

INSTALLATION AND WIRING

This contactor is designed for three-point mounting with dimensions A or B (Figure 2). Dimension B is preferred cause the mounting screws are more accessible. Dimension A is interchangeable with Class 8903 Types L and LL lighting contactors, but the Type LX is longer in overall size.

The pressure wire connectors accommodate single wires up to 10 AWG (for terminal locations, see Figure 2). Control wiring requires three connections:

- Common: terminal 18
- Latch (On): terminal 14
- Unlatch (Off): terminal 15

Figure 3 is a typical control scheme using a two-pole pilot device (relay and various switches).

CONTACTS

All contacts are silver alloy. They are not harmed by slight pitting or discoloration. *Do not file contacts*; this wastes contact material. Replace the contacts when the silver alloy wears thin.

FUNCIONAMIENTO MANUAL

Para hacer funcionar manualmente el contactor:

1. Desenergícelo.
2. Para engancharlo, presione la varilla de enganche (figura 2) con una herramienta eléctricamente aislada.
3. Para desengancharlo, presione el anillo de la armadura (figura 2) con una herramienta eléctricamente aislada.

INSTALACIÓN Y CABLEADO

Este contactor está diseñado para montarse en tres posiciones en las dimensiones A o B (figura 2). Se prefiere la dimensión B puesto que los tornillos de montaje están más accesibles. La dimensión A se puede intercambiar con los contactores de alumbrado tipos L y LL clase 8903; sin embargo, el tipo LX es, más largo.

Los conectores de los conductores a presión aceptan conectores sencillos con calibre máximo de 5,26 mm² (10 AWG), (consulte la figura 2 para conocer la ubicación de las terminales). El cableado de control necesita tres conexiones:

- Común: terminal 18
- Enganche (conexión): terminal 14
- Desenganche (desconexión): terminal 15

La figura 3 muestra un diagrama típico de control con un dispositivo piloto de dos polos (relevador, interruptor, etc.).

CONTACTOS

Todos los contactos son de aleación de plata y no se dañan con la oxidación o la decoloración. *No lime los contactos* ya que esto desgasta el material del contacto. Sustitúyalos una vez que se haya desgastado la aleación de plata.

FONCTIONNEMENT MANUEL

Pour utiliser le contacteur manuellement :

1. Couper toute alimentation du contacteur.
2. Pour verrouiller le contacteur, appuyer sur la tige du verrou (figure 2) à l'aide d'un outil isolé électriquement.
3. Pour déverrouiller le contacteur, appuyer sur l'anneau de l'armature (figure 2) à l'aide d'un outil isolé électriquement.

INSTALLATION ET CÂBLAGE

Ce contacteur est conçu pour un montage en trois positions avec les dimensions A ou B (figure 2). La dimension B est préférable car les vis de montage sont plus accessibles. La dimension A est interchangeable avec les contacteurs d'éclairage des types L et LL, classe 8903, mais le type LX est d'une taille plus longue.

Les connecteurs des fils à pression acceptent des fils simples jusqu'au calibre 5,26 mm² (10 AWG) (pour l'emplacement des bornes, voir la figure 2). Le câblage de commande exige trois connexions :

- Commun : borne 18
- Verrouillage (Marche) : borne 14
- Déverrouillage (Arrêt) : borne 15

La figure 3 représente un schéma de commande typique utilisant un dispositif pilote bipolaire (relais, interrupteur, etc.)

CONTACTS

Tous les contacts sont en alliage d'argent et les légères piqûres de surface ou la décoloration ne leurs nuisent pas. *Ne pas limer les contacts*, cela abîme le matériel du contact. Remplacer les contacts lorsque l'alliage d'argent devient mince par l'usure.

30072-013-32C
8/2002Mechanically Held AC Lighting Contactor, 20 A, Class 8903 Type LX
Contactor de alumbrado de ~ (ca) mecánicamente sostenido, 20 A, clase 8903 tipo LX
Contacteur d'éclairage ca retenu mécaniquement, 20 A, classe 8903 type LX

Figure / Figura / Figure 2 : Mounting Dimensions and Terminal Locations / Dimensiones de montaje y ubicación de las terminales / Dimensions de montage et emplacement des bornes

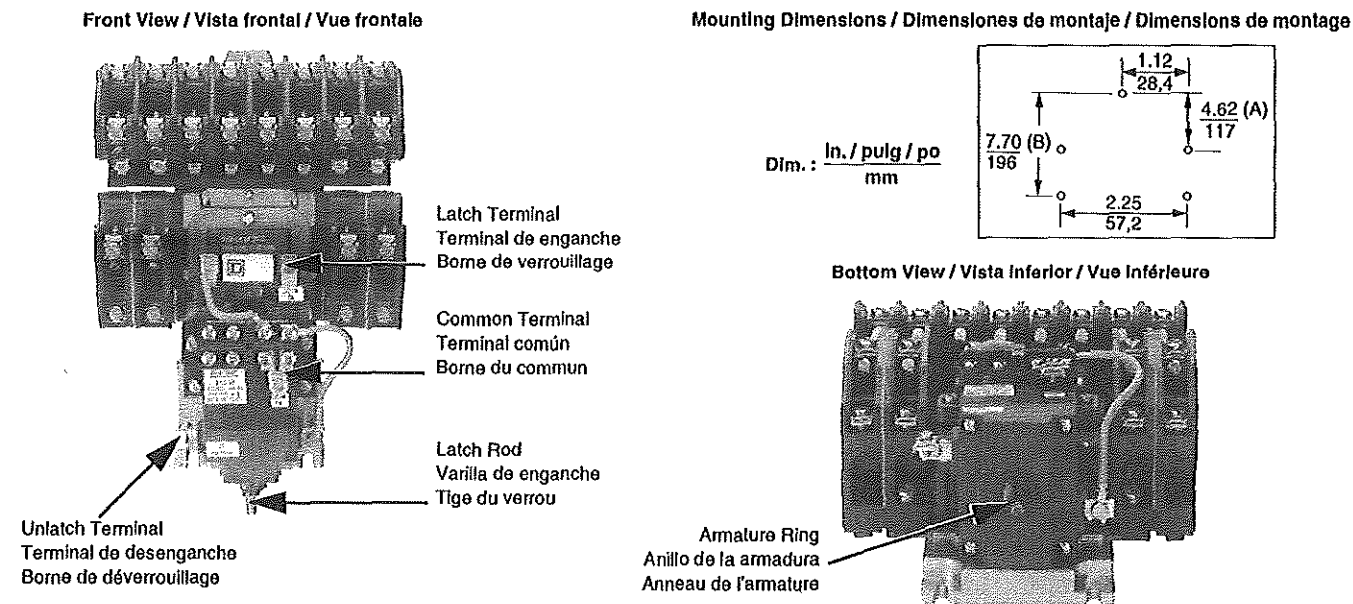


Figure / Figura / Figure 3 : Control Wiring / Cableado de control / Câblage de la commande

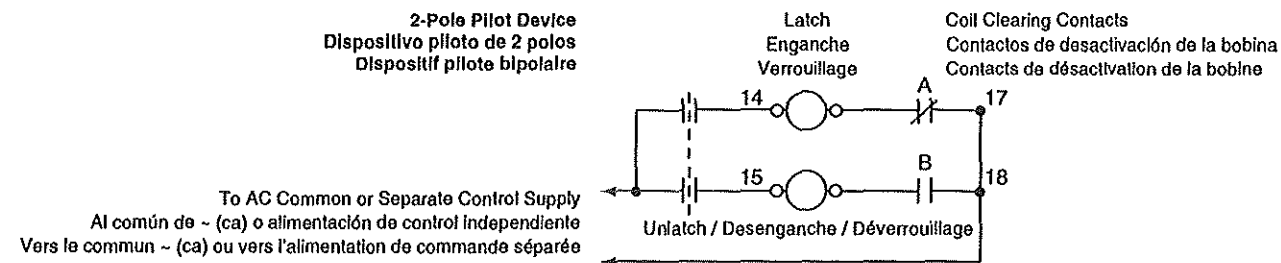
**CONTACT CONVERSION**

Figure 4 shows how to convert the contacts from normally open to normally closed (a maximum of six poles can be normally closed at one time). The N.O. or N.C. legend on the movable contact assembly indicates whether the contact is open or closed.

To change any pole from N.O. to N.C.:

1. Disconnect all power.
2. Loosen the mounting screw and remove the stationary contact.
3. Rotate the movable contact 180° vertically.
4. Rotate the stationary contact 180° horizontally.
5. Replace the stationary contact and tighten the mounting screw.

CONVERSIÓN DE LOS CONTACTOS

La figura 4 muestra la manera de convertir los contactos de normalmente abierto a normalmente cerrado (6 polos como máximo pueden estar normalmente cerrados en un momento dado). La leyenda N.A. o N.C. en el ensamble del contacto móvil indica si el contacto está abierto o cerrado.

Para convertir cualquier polo de N.A. a N.C.:

1. Desconecte toda la alimentación.
2. Afloje el tornillo de montaje y retire el contacto fijo.
3. Gire el contacto móvil 180° verticalmente.
4. Gire el contacto fijo 180° horizontalmente.
5. Vuelva a colocar el contacto fijo y apriete el tornillo de montaje.

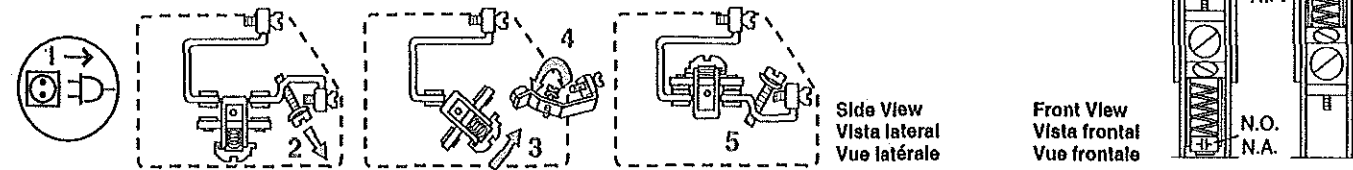
CONVERSION DES CONTACTS

La figure 4 indique comment convertir les contacts de normalement ouverts à normalement fermés (6 pôles maximum peuvent être normalement fermés en même temps). La légende N.O. ou N.F. sur l'assemblage d'un contact mobile indique si celui-ci est ouvert ou fermé.

Pour convertir un pôle de N.O. à N.F. :

1. Mettre l'ensemble hors tension.
2. Desserrer la vis de montage et retirer le contact stationnaire.
3. Faire pivoter le contact mobile de 180° verticalement.
4. Faire pivoter le contact stationnaire de 180° horizontalement.
5. Remettre en place le contact stationnaire et serrer la vis de montage.

Figure / Figura / Figure 4 : Converting Contacts from N.O. to N.C. /
Conversión de los contactos de N.A. a N.C. /
Conversion des contacts de N.O. en N.F.



REPLACING CONTACTS

To replace contacts, either change out the entire stationary and movable contact assemblies (Items 2 and 3) or replace individual parts (11–14). To replace individual parts:

1. Remove all front stationary contacts (12).
2. Loosen the two screws (22) and remove the stationary contact block.
3. Replace the the movable contact (13) and the spring (14).
4. Remove the pressure wire connector from the terminal to be replaced.
5. Loosen the screw (15) and replace the rear stationary contact (11). Reassemble in reverse order.

REPLACING THE CONTACT MODULE

To replace the auxiliary contact/coil clearing contact module (33):

1. Remove the wire leads from terminals 2A and 2B.
2. Remove and save the jumper (31).
3. Remove and save the mounting screws (29).
4. Remove the module and replace it with a Class 9007 Type CO3 module.
5. Reassemble in reverse order.
6. Adjust the coil clearing contact (see "Adjusting the Coil Clearing Contacts" on page 6).

MAGNET COILS

This device uses heavy-duty molded coils, designed to operate on line-voltage fluctuations from -15% to +10% of nominal voltage.

SUSTITUCIÓN DE LOS CONTACTOS

Es posible sustituir los contactos cambiando todos los ensambles de los contactos fijos y móviles (artículos 2 y 3) o sustituyendo las piezas individuales (11–14). Para sustituir las piezas individuales:

1. Retire todos los contactos fijos de la parte frontal (12).
2. Afloje dos tornillos (22) y retire el bloque de contactos fijos.
3. Sustituya el contacto móvil (13) y el resorte (14).
4. Retire el conector del conductor a presión de la terminal que se va a sustituir.
5. Afloje el tornillo (15) y sustituya el contacto fijo de la parte posterior (11).
6. Vuelva a ensamblar en el orden inverso al de su desmontaje.

SUSTITUCIÓN DEL MÓDULO DE CONTACTOS

Para sustituir el módulo de contactos auxiliares/de desactivación de la bobina (33):

1. Retire los conductores de las terminales 2A y 2B.
2. Retire y guarde el cable de conexión en puente (31).
3. Retire y guarde los tornillos de montaje (29).
4. Retire el módulo y sustitúyalo con un módulo clase 9007 tipo CO3.
5. Vuelva a ensamblar en el orden inverso al de su desmontaje.
6. Ajuste el contacto de desactivación de la bobina (consulte la sección "Ajuste de los contactos de desactivación de la bobina" en la página 6).

BOBINAS DEL IMÁN

Este dispositivo utiliza bobinas moldeadas de servicio pesado, diseñadas para funcionar en fluctuaciones de tensión de línea de -15% a +10% de la tensión nominal.

REPLACEMENT DES CONTACTS

Les contacts peuvent être remplacés en remplaçant les assemblages complets des contacts stationnaires et mobiles (articles 2 et 3) ou en remplaçant des pièces individuelles (11 à 14). Pour remplacer des pièces individuelles :

1. Retirer tous les contacts stationnaires de la partie frontale (12).
2. Desserrer les 2 vis (22) et retirer le bloc à contacts stationnaires.
3. Remplacer le contact mobile (13) et le ressort (14).
4. Retirer le connecteur du fil à pression de la borne à remplacer.
5. Desserrer la vis (15) et remplacer le contact stationnaire arrière (11).
6. Remonter dans l'ordre inverse.

REPLACEMENT DU MODULE DE CONTACTS

Pour remplacer le module de contacts auxiliaires/de désactivation de la bobine (33) :

1. Retirer les conducteurs des bornes 2A et 2B.
2. Retirer le cavalier (31) et le mettre de côté.
3. Retirer les vis de montage (29) et les mettre de côté.
4. Retirer le module et le remplacer par un module classe 9007 type CO3.
5. Remonter dans le sens inverse.
6. Régler le contact de désactivation de la bobine (voir «Réglage des contacts de désactivation de la bobine» à la page 6).

BOBINES D'AIMANT

Ce dispositif emploie des bobines moulées à usage intensif, conçues pour fonctionner de -15 % jusqu'à +10 % de la tension nominale.

30072-013-32C
8/2002

Mechanically Held AC Lighting Contactor, 20 A, Class 8903 Type LX
Contactor de alumbrado de ~ (ca) mecánicamente sostenido, 20 A, clase 8903 tipo LX
Contacteur d'éclairage ca retenu mécaniquement, 20 A, classe 8903 type LX

When ordering a replacement magnet coil, include the part number, voltage, and frequency of coil being replaced. The complete coil part number consists of the coil prefix, followed by the suffix (see Table 1). For example, for a 120 Vac, 60 Hz coil for an eight-pole contactor, order 9998 LH44.

Cuando solicite una bobina magnética de repuesto, incluya el número de pieza, la tensión y la frecuencia de la bobina que se va a sustituir. El número completo de pieza de la bobina consta del prefijo de la bobina, seguido por el sufijo (consulte la tabla 1). Por ejemplo, para una bobina de 60 Hz, 120 V~ para un contactor de 8 polos, solicite el número de pieza 9998 LH4A.

Lors de la commande d'une bobine à aimant de rechange, inclure le numéro de pièce, la tension et la fréquence de la bobine à remplacer. Le numéro de pièce complet de la bobine comporte le préfixe de la bobine suivi du suffixe (voir le tableau 1). Par exemple, pour une bobine de 120 Vca, 60 Hz pour un contacteur à 8 pôles, commander le numéro de pièce 9998 LH44.

Table / Tabla / Tableau 1 : Coil Part Numbers / Números de pieza de la bobina del imán / Numéro des pièces de la bobine d'aimant

No. of Poles / Cant. de polos / Nombre de pôles	Coil Prefix / Prefijo de la bobina / Préfixe de la bobine	Hz	Coil Suffix / Sufijo de la bobina / Suffixe de la bobine										
			24 V~	110 V~	120 V~	208 V~	220 V~	240 V~	277 V~	380 V~	440 V~	480 V~	600 V~
Latch Coil / Bobina de enganche / Bobine de verrouillage													
2-4	9998 L	60	23	—	44	50	—	53	55	—	—	62	65
		50	—	44	—	—	53	—	—	60	62	—	—
6-12	9998 LH	60	23	—	44	50	—	53	55	—	—	62	65
		50	—	44	—	—	53	—	—	60	62	—	—
Unlatch Coil / Bobina de desenganche / Bobine de déverrouillage													
All	9998 LX	60	23	—	44	51	—	53	55	—	—	62	65
		50	—	44	—	—	53	—	—	59	62	—	—

REPLACING THE LATCH COIL

To replace the latch coil (20):

1. Disconnect the control wires from both coil terminals (19).
2. Loosen the two latch retainer screws (28) and remove the latch assembly.
3. Loosen the captive screw (17) and pull the magnet (9), armature (10) and coil (20) from the base.
4. Separate the magnet from the coil and replace the coil.
5. Reassemble in reverse order.

REPLACING THE UNLATCH COIL

To replace the unlatch coil (24):

1. Remove the factory-connection wires at the terminals of the latch coil (20) and unlatch coil (24).
2. Remove field wiring from COM 18 and 15 UNLATCH.
3. Loosen the two latch retainer screws (28) and remove the latch assembly.
With the end of the rod pointing up, loosen the four captive screws (30).

SUSTITUCIÓN DE LA BOBINA DE ENGANCHE

Para sustituir la bobina de enganche (20):

1. Retire los cables de control de las terminales de la bobina (19).
2. Afloje los 2 tornillos de sujeción del enganche (28) y retire el ensamble de enganche.
3. Afloje el tornillo cautivo (17) y jale el imán (9), la armadura (10) y la bobina (20) de la base.
4. Separe el imán de la bobina y sustituya la bobina.
5. Vuelva a ensamblar en el orden inverso al de su desmontaje.

SUSTITUCIÓN DE LA BOBINA DE DESENGANCHE

Para sustituir la bobina de desenganche (24):

1. Retire los cables de conexión instalados en la fábrica, de la terminal de la bobina de enganche (20) y de la terminal de la bobina de desenganche (24).
2. Retire el cableado de campo de COM 18 y 15 UNLATCH.
3. Afloje los dos tornillos de sujeción del enganche (28) y retire el ensamble de enganche.
4. Con el extremo de la varilla apuntando hacia arriba, afloje los cuatro tornillos cautivos (30).

REPLACEMENT DE LA BOBINE DE VERROUILLAGE

Pour remplacer la bobine de verrouillage (20) :

1. Débrancher les fils de commande des bornes de la bobine (19).
2. Desserrer les 2 vis de fixation du verrou (28) et retirer l'assemblage de verrouillage.
3. Desserrer la vis imperdable (17) et retirer l'aimant (9), l'armature (10) et la bobine (20) de la base.
4. Séparer l'aimant de la bobine et remplacer la bobine.
5. Remonter dans l'ordre inverse.

REPLACEMENT DE LA BOBINE DE DÉVERROUILLAGE

Pour remplacer la bobine de déverrouillage (24) :

1. Retirer les fils de connexion installés à l'usine, de la borne de la bobine de verrouillage (20) et de la borne de la bobine de déverrouillage (24).
2. Retirer le câblage sur place de COM 18 et de 15 UNLATCH.
3. Desserrer les 2 vis de fixation du verrou (28) et retirer l'assemblage de verrouillage.
4. Avec l'extrémité de la tige orientée vers le haut, desserrer les 4 vis imperdables (30).

5. Replace the unlatch coil (24). *Do not remove the magnet frame (27) or the coil pressure springs (not shown).*
6. Depress and hold the latch armature ring (35) and replace the latch mechanism (25). Release the latch armature ring.
7. Reverse Steps 1–4 for reassembly.
8. Manually operate the contactor to verify proper operation (see "Manual Operation" on page 2).

5. Sustituya la bobina de desenganche (24). *No retire el marco del imán (27), o los resortes de presión de la bobina (no mostrados).*
6. Oprima y sostenga el anillo de la armadura (35) y sustituya el mecanismo de enganche (25). Suelte el anillo de la armadura del enganche.
7. Para volver a ensamblar, realice los pasos del 1–4 en orden inverso.
8. Haga funcionar manualmente el contactor para verificar su funcionamiento correcto (consulte la sección "Funcionamiento manual" en la página 2).

5. Remplacer la bobine de déverrouillage (24). *Ne pas retirer le cadre de l'aimant (27) ou les ressorts de pression de la bobine (non représentés).*
6. Appuyer et maintenir la pression sur l'anneau de l'armature du verrou (35) et remplacer le mécanisme de verrouillage (25). Relâcher l'anneau de l'armature du verrou.
7. Inverser les étapes 1 à 4 pour le remontage.
8. Faire fonctionner manuellement pour vérifier le bon fonctionnement (voir «Fonctionnement manuel» à la page 2).

ADJUSTING THE COIL CLEARING CONTACTS

To adjust the coil clearing contacts:

1. If the contact module has been replaced:
 - a. Turn the latch rod clockwise 3 turns.
 - b. Manually latch the contactor by pushing the end of the latch rod until the armature is firmly seated against the magnet. Check contact 1B. If the contact is open, go to Step 3. If the contact is closed, rotate the latch rod an additional 1/2 turn clockwise.
 - c. Manually unlatch the device by depressing the armature ring.
 - d. Repeat Step 1b until the contact remains open when manually latched.
2. If installing a new latch assembly, manually latch the contactor.
3. Turn the latch rod counterclockwise until contact 1B closes.
4. Turn the latch rod an additional 1/2 turn counterclockwise.
5. Manually unlatch the contactor.
6. Manually latch the contactor and check contact 1B. If the contact is closed, go to Step 7. If the contact is open, go to Step 4.
7. Turn the latch rod an additional 1 turn counterclockwise.

AJUSTE DE LOS CONTACTOS DE DESACTIVACIÓN DE LA BOBINA

Para ajustar los contactos de desactivación de la bobina:

1. Si se ha sustituido el módulo de contactos:
 - a. Gire la varilla de enganche 3 vueltas en sentido de las manecillas del reloj.
 - b. Enganche el contactor manualmente, empujando la varilla de enganche hasta encajar la armadura firmemente en el imán. Revise el contacto 1B. Si el contacto está abierto, vaya al paso 3. Si el contacto está cerrado, gire la varilla de enganche 1/2 vuelta más en sentido de las manecillas del reloj.
 - c. Desenganche el dispositivo manualmente, presionando el anillo de la armadura.
 - d. Repita el paso 1b hasta que permanezca abierto el contacto una vez que se haya enganchado manualmente.
2. Si va a instalar un nuevo ensamble de enganche, enganche manualmente el contactor.
3. Gire la varilla de enganche en sentido contrario a las manecillas del reloj hasta cerrar el contacto 1B.
4. Gire la varilla de enganche 1/2 vuelta más en sentido contrario a las manecillas del reloj.
5. Desenganche manualmente el contactor.
6. Enganche manualmente el contactor y revise el contacto 1B. Si el contacto está cerrado, vaya al paso 7. Si el contacto está abierto, vaya al paso 4.
7. Gire la varilla de enganche 1 vuelta más en sentido contrario a las manecillas del reloj.

RÉGLAGE DES CONTACTS DE DÉSACTIVATION DE LA BOBINE

Pour régler les contacts de désactivation de la bobine :

1. Si le module de contacts a été remplacé :
 - a. Tourner la tige du verrou de 3 tours dans le sens horaire.
 - b. Verrouiller manuellement le contacteur en appuyant sur l'extrémité de la tige du verrou jusqu'à ce que l'armature soit fermement fixée sur l'aimant. Vérifier le contact 1B. S'il est ouvert, passer à l'étape 3. Si le contact est fermé, faire pivoter la tige du verrou d'un demi-tour supplémentaire dans le sens horaire.
 - c. Déverrouiller manuellement le dispositif en appuyant sur l'anneau de l'armature.
 - d. Répéter l'étape 1b jusqu'à ce que le contact reste ouvert lorsqu'il est verrouillé manuellement.
2. En cas d'installation d'un nouvel assemblage de verrouillage, verrouiller manuellement le contacteur.
3. Faire tourner la tige du verrou dans le sens anti-horaire jusqu'à ce que le contact 1B se ferme.
4. Faire tourner la tige du verrou d'un demi-tour supplémentaire dans le sens anti-horaire.
5. Déverrouiller manuellement le contacteur.
6. Verrouiller manuellement le contacteur et vérifier le contact 1B. Si le contact est fermé, passer à l'étape 7. Si le contact est ouvert, passer à l'étape 4.
7. Faire tourner la tige du verrou d'un tour supplémentaire dans le sens anti-horaire.

30072-013-32C
8/2002Mechanically Held AC Lighting Contactor, 20 A, Class 8903 Type LX
Contactor de alumbrado de ~ (ca) mecánicamente sostenido, 20 A, clase 8903 tipo LX
Contacteur d'éclairage ca retenu mécaniquement, 20 A, classe 8903 type LX**SHORT CIRCUIT PROTECTION**

Provide branch circuit overcurrent protection for each contactor in accordance with the National Electrical Code.

DISTANT CONTROL

When a contactor is mounted a considerable distance from the device controlling it, series impedance and shunt capacitance in the control wires adversely affect proper operation. For more details, see bulletin M-379 (available at www.SquareD.com).

Table 2 shows the effects of impedance only. (The effects of shunt capacitance are muted by the coil clearing contacts.) If the wire size mandated by the control distance is larger than 10 AWG (5,26 mm²), use ring lugs for termination.

PROTECCION CONTRA CORTOCIRCUITOS

Proporcione protección contra sobrecorrientes a los circuitos derivados de cada contactor, de acuerdo con el Código nacional eléctrico de EUA y la NOM-001 SEMP (México).

CONTROL A DISTANCIA

Cuando se monta un contactor alejado del dispositivo que lo controla, la impedancia en serie y la capacitancia en derivación de los cables de control afectan desfavorablemente el funcionamiento del contactor. Para obtener más detalles, consulte el boletín M-379 (disponible al www.SquareD.com).

La tabla 2 muestra los efectos de la impedancia solamente. (Los efectos de la capacitancia en derivación son amortiguados por los contactos de desactivación de la bobina.) Si el calibre del conductor asignado por la distancia de control es de un calibre mayor que 5,26 mm² (10 AWG), utilice las zapatas de anillo en las terminales.

PROTECTION CONTRE LES COURTS-CIRCUITS

Fournir un dispositif de protection contre les surintensités des circuits d'artère pour chaque contacteur, conformément au Code national de l'électricité (NEC; É.-U.).

COMMANDE À DISTANCE

Lorsqu'un contacteur est monté à une distance considérable du dispositif qui le commande, l'impédance en série et la capacité shunt des fils de commande ont un effet défavorable au bon fonctionnement. Pour plus de détails, consulter les directives M-379 (disponible au www.SquareD.com).

Le tableau 2 montre les effets de l'impédance uniquement. (Les effets de la capacité shunt sont amortis par les contacts de désactivation de la bobine.) Si le calibre de fil exigé par la distance de commande est plus grand que 5,26 mm² (10 AWG), utiliser les cosses à anneau pour la terminaison.

Table / Tabla / Tableau 2 : Wire Gauge Selection / Selección del calibre del cable / Sélection du calibre des fils

Poles / Polos / Pôles	Coil Voltage / Tensión de la bobina / Tension de la bobine	L, U (1)	Max. Wire Length, ft (m) / Longitud del cable max., pies (m) / Longueur du fil max., pieds (m)					
			16 AWG 1,31 mm ²	14 AWG 2,08 mm ²	12 AWG 3,3 mm ²	10 AWG 5,26 mm ²	8 AWG 8,36 mm ²	6 AWG 13,3 mm ²
2-4 6-12 All / Todos / Tous	24 V~, 60 Hz	L U	30 (9) 20 (6) 195 (59)	45 (14) 35 (11) 310 (94)	75 (23) 60 (18) 485 (148)	115 (35) 90 (27) 750 (229)	180 (55) 140 (43) 1155 (352)	270 (82) 210 (64) 1745 (532)
2-4 6-12 All / Todos / Tous	120 V~, 60 Hz	L U	790 (241) 620 (189) 4950 (1 509)	1240 (378) 975 (297) 7780 (2 371)	1935 (590) 1520 (463) 12150 (3 703)	2900 (884) 2340 (713) 18825 (5 738)	4500 (1 372) 3555 (1 084) 28875 (8 801)	6900 (2 103) 5310 (1 618) 43690 (13 317)
2-4 6-12 All / Todos / Tous	208 V~, 60 Hz	L U	2300 (701) 1875 (572) 14875 (4 534)	3700 (1 128) 2935 (895) 23370 (7 123)	5800 (1768) 4565 (1391) 36505 (11 127)	8900 (2 713) 7030 (2 143) 56570 (17 243)	13600 (4 145) 10680 (3 255) 86765 (26 446)	20500 (6 248) 15960 (4 865) 131275 (40 013)
2-4 6-12 All / Todos / Tous	240 V~, 60 Hz	L U	3100 (945) 2495 (760) 19805 (6 037)	4900 (1 494) 3910 (1 192) 31120 (9 485)	7700 (2347) 6080 (1853) 48605 (14 815)	11900 (3 627) 9360 (2 853) 75315 (22 956)	18200 (5 547) 14220 (4 334) 115515 (35 209)	27300 (8 321) 21250 (6 477) 174760 (53 267)

(1) L = Latch / Enganche / Verrouillage; U = Unlatch / Desenganche / Déverrouillage

Table / Tabla / Tableau 3 : Repair Parts / Piezas de repuesto / Pièces de rechange

Item Art. Art.	Description	Descripción	Description	Part No. No. de pieza N° de pièce	Qty. / Cant. / Qté.							
					Poles / Polos / Pôles							
					2	3	4	6	8	10	12	
1	Base Assembly	Ensamble de la base	Assemblage de la base	(1)	1	1	1	1	1	1	1	
2	Stationary Contact Block Assembly	Ensamble del bloque de contactos fijos	Assemblage du bloc à contacts stationnaire	31071-311-64	1	—	—	—	—	—	—	
				31071-311-65	—	1	—	—	—	—		
				31071-311-66	—	—	1	—	—	—		
				31071-311-68	—	—	—	1	—	—		
				31071-311-70	—	—	—	—	1	1	1	
3	Movable Contact Carrier Assembly	Ensamble del portacontactos móvil	Assemblage du porte-contacts mobile	31071-116-50	1	—	—	—	—	—	—	
				31071-116-51	—	1	—	—	—	—		
				31071-116-52	—	—	1	—	—	—		
				31071-116-54	—	—	—	1	—	—		
				31071-116-56	—	—	—	—	1	1	1	
4	Left Adder Pole 1 N.O. 2 N.O.	Polo adicional izquierdo 1 N.A. 2 N.A.	Pôle supplémentaire gauche 1 N.O. 2 N.O.	8903 L1L SER. B	—	—	—	—	—	1	—	
				8903 L3L SER. B	—	—	—	—	—	—	1	

(1) For reference only. Not offered as an individual repair part / Como referencia solamente. No se vende como una pieza individual de repuesto. / Pour référence seulement. Non proposée comme pièce individuelle de rechange.

(2) See Table 1. / Vea la tabla 1. / Voir le tableau 1.

Table / Tabla / Tableau 3 : Repair Parts / Piezas de repuesto / Pièces de rechange (cont. / cont. / suite)

Item Art. Art.	Description	Descripción	Description	Part No. No. de pieza N° de pièce	Qty. / Cant. / Qté.							
					Poles / Polos / Pôles							
					2	3	4	6	8	10	12	
5	Right adder pole 1 N.O. 2 N.O.	Polo adicional derecho 1 N.A. 2 N.A.	Pôle supplémentaire droit 1 N.O. 2 N.O.	8903 L1R SER. B 8903 L3R SER. B	—	—	—	—	—	1	—	
6	Left adder pole mounting bracket	Soporte de montaje para el polo adicional izquierdo	Support de montage du pôle supplémentaire gauche	31071-038-02	—	—	—	—	—	1	1	
7	Right adder pole mounting bracket	Soporte de montaje para el polo adicional derecho	Support de montage du pôle supplémentaire droit	31071-038-01	—	—	—	—	—	1	1	
8	Guide plate	Placa guía	Plaque de guidage	31071-161-01	1	1	1	1	1	1	1	
9	Magnet assembly	Ensamble del imán	Assemblage de l'aimant	31071-005-51	1	1	1	1	1	1	1	
10	Armature assembly (must order together)	Ensamble de la armadura (deberán solicitarse juntos)	Assemblage de l'armature (doivent être commandés ensemble)	31071-278-50	1	1	1	1	1	1	1	
11	Rear stationary contact	Contacto fijo posterior	Contact stationnaire arrière	0998 RA5B (4-pole kit / accessorio de 4 polos / kit de 4 pôles)	1	1	1	2	2	3	3	
12	Front stationary contact	Contacto fijo frontal	Contact stationnaire avant									
13	Movable contact	Contacto móvil	Contact mobile									
14	Contact spring	Resorte de contacto	Ressort de contact									
15	Screw assembly, 6-32 x 13/32	Ensamble de tornillos, 6-32 x 13/32	Assemblage de vis, 6-32 x 13/32	21937-12261	2	3	4	6	8	8	8	
16	Screw assembly, 6-32 x 5/16	Ensamble de tornillos, 6-32 x 5/16	Assemblage de vis, 6-32 x 5/16	21911-12100	—	—	—	4	4	4	4	
17	Screw	Tornillo	Vis	31071-162-01	1	1	1	1	1	1	1	
18	#10 lockwasher	Roldana de sujeción #10	Rondelle de sûreté n° 10	23701-00160	1	1	1	1	1	1	1	
19	Screw and clamp assembly for coil	Ensamble de tornillo y abrazadera para la bobina	Assemblage de vis et collier pour bobine	31051-007-50	4	4	4	4	4	4	4	
20	Magnet coil—latch	Bobina del imán—de enganche	Bobine d'aimant—de verrouillage	(2)	1	1	1	1	1	1	1	
21	Return spring	Resorte de retorno	Ressort de rappel	30017-184-01 30017-175-01	1	—	—	—	—	—	—	
22	Screw assembly, 8-32 x 1-1/16"	Ensamble de tornillos, 8-32 x 1-1/16	Assemblage de vis, 8-32 x 1-1/16	21937-14342	2	2	2	2	2	2	2	
23	Latch assembly	Ensamble de enganche	Assemblage de verrouillage	8903 LXL	1	1	1	1	1	1	1	
24	Magnet coil—unlatch	Bobina del imán—de desenganche	Bobine d'aimant—de déverrouillage	(2)	1	1	1	1	1	1	1	
25	Latch mechanism	Mecanismo de enganche	Mécanisme de verrouillage	(1)	1	1	1	1	1	1	1	
26	Latch cover	Cubierta del enganche	Couvercle du verrou	(1)	1	1	1	1	1	1	1	
27	Magnet frame	Marco del imán	Cadre de l'aimant	(1)	1	1	1	1	1	1	1	
28	Screw	Tornillo	Vis	(1)	2	2	2	2	2	2	2	
29	Screw	Tornillo	Vis	(1)	2	2	2	2	2	2	2	
30	Latch cover screws	Tornillos de la cubierta del enganche	Vis du couvercle du verrou	(1)	4	4	4	4	4	4	4	
31	Jumper	Puente de conexión	Cavalier	31071-282-50	1	1	1	1	1	1	1	
32	Screw	Tornillo	Vis	(1)	4	4	4	4	4	4	4	
33	Auxiliary contact/coil clearing contact module	Módulo de contactos auxiliares/ de desactivación de la bobina	Module de contact auxiliaire/de désactivation de la bobine	9007 CO3	1	1	1	1	1	1	1	
34	Screw and clamp assembly	Ensamble de tornillo y abrazadera	Assemblage vis et collier	21910-24192	4	6	8	12	16	20	24	
35	Latch armature ring	Anillo de la armadura del enganche	Anneau de l'armature de verrouillage	(1)	1	1	1	1	1	1	1	
36	Contact support	Soporte de contactos	Support du contact	31071-018-01	2	3	4	6	8	10	12	
37	Spring seat	Superficie de apoyo del resorte	Face d'appui de ressort	31071-019-01	2	3	4	6	8	10	12	

(1) For reference only. Not offered as an individual repair part / Como referencia solamente. No se vende como una pieza individual de repuesto. / Pour référence seulement. Non proposée comme pièce individuelle de rechange.

(2) See Table 1. / Vea la tabla 1. / Voir le tableau 1.

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

Soamente el personal especializado deberá instalar, hacer funcionar y prestar servicios de mantenimiento al equipo eléctrico. Schneider Electric no asume responsabilidad alguna por las consecuencias emergentes de la utilización de este material.

Seul un personnel qualifié doit effectuer l'installation, l'utilisation, l'entretien et la maintenance du matériel électrique. Schneider Electric n'assume aucune responsabilité des conséquences éventuelles découlant de l'utilisation de cette documentation.

Square D Company
 8001 Highway 64 East
 Knightdale, NC 27545
 1-888-SquareD (1-888-778-2733)
 SquareD.com

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 Col. Gpo. del Moral 09300 México, D.F.
 Tel. 55-5804-5000
 www.schneider-electric.com.mx

Schneider Canada Inc.
 19 Waterman Avenue, M4B 1 Y2
 Toronto, Ontario
 1-800-565-6699
 www.schneider-electric.ca



**INSTRUCTIONS FOR CONDUIT ENTRY INTO
HOFFMAN RAINPROOF ENCLOSURES:
BULLETIN A3**



A Pentair Company
Hoffman Enclosures Inc.
2100 Hoffman Way
Anoka, MN 55303-1745
(763) 422-2211 Tel
www.hoffmanonline.com

A. Conduit Entry Above Live Parts:

1. Use only U.L. listed rain tight or liquid tight conduit hubs.
2. Install hubs and conduit according to the hub manufactures instructions.

B. Conduit Entry Below Live Parts:

1. Punch or drill the correct hole for the size of conduit to be used (see table below) or use the appropriate knockout (where provided).
2. Secure the conduit with locknuts inside and out, or with a locking bushing on the inside and a locknut on the outside.

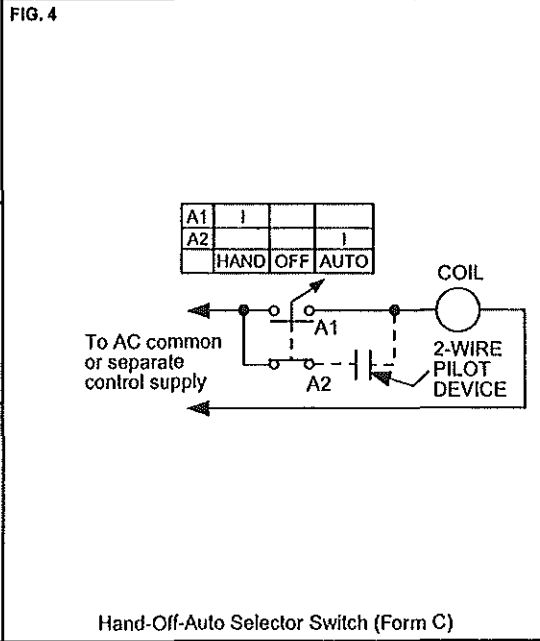
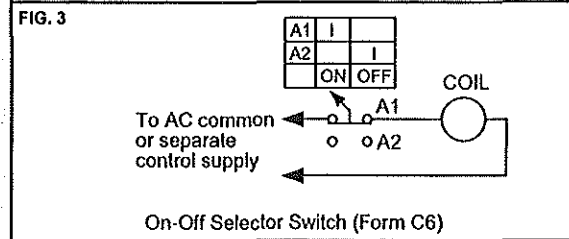
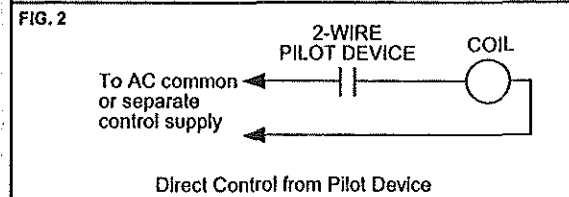
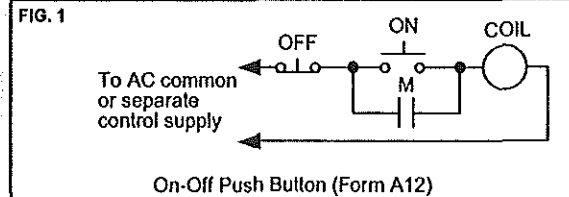
<u>CONDUIT SIZE</u>	<u>HOLE SIZE</u>
1/2"	7/8"
3/4"	1 1/8"
1"	1 3/8"
1 1/4"	1 3/4"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"
3"	3 5/8"

AC Lighting Contactors

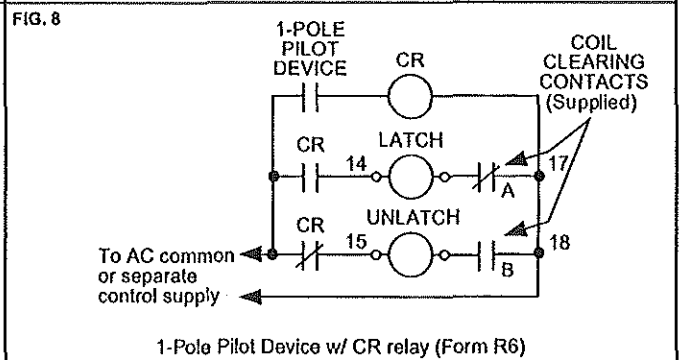
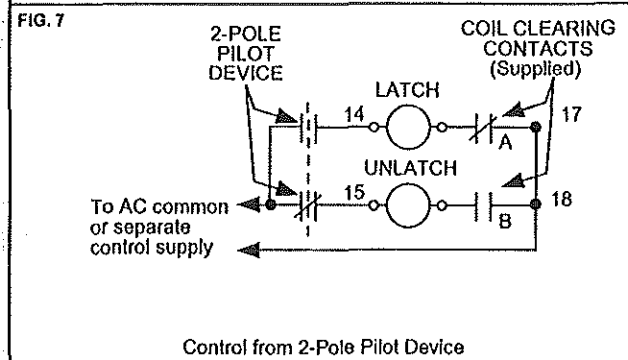
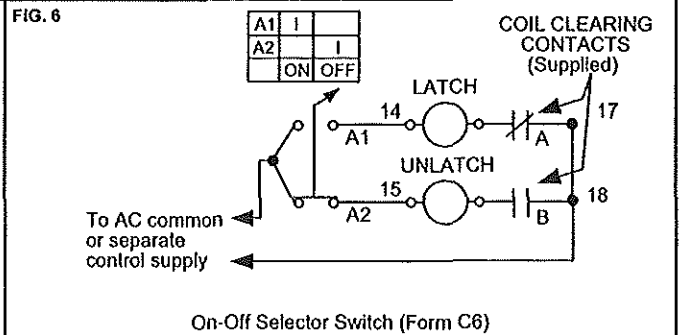
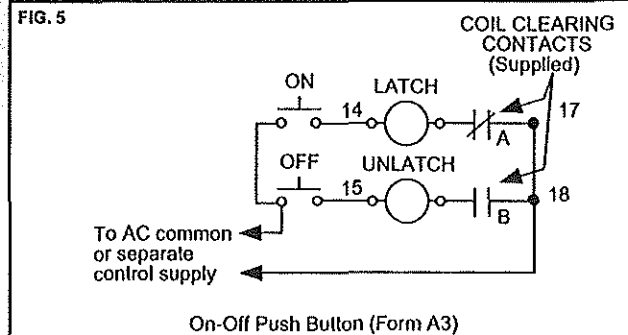
Class 8903

Control Circuit Connections

Control Circuit Connections for Electrically-Held Contactors: Class 8903 Type L and S



Control Circuit Connections for Mechanically-Held Contactors: Class 8903 Type LX and S



LIGHTING SUBMITTAL



Staggs and Fisher
Consulting Engineers, Inc

3284 Loch Ness Drive
Lexington, Kentucky 40517
Phone 859-271-3246
Fax 859-271-3246
Email info@sfengineering.com

08/19/2014 21 of 40
Gregory G. Carter, P.E.
Daniel H. Bransom, P.E.
Christopher C. Keath, P.E.
John R. Mason, P.E.
William P. Wilson, P.E.
Greg W. Kraeszig, P.E.

Member of the Consulting
Engineers Council

The following comments are in response to Staggs and Fisher's review of the attached shop drawing submittal.

Description of Submittal: 16 5600-01 Exterior Lighting Shop Drawing

Job Name: University of Kentucky South Campus Parking Lot

Job No: 14302

Date: June 9, 2014


Reviewed By: Walt Shropshire

Remarks (if applicable):

1. No comments.

<input checked="" type="checkbox"/>	REVIEWED	FURNISH AS CORRECTED
<input type="checkbox"/>	REJECTED	REVISE AND RESUBMIT

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the drawings and specification. Contractor is responsible for : Quantities, dimensions which shall be confirmed and correlated at the job site, and fabrication processes and techniques of construction.

 **Staggs and Fisher**
Consulting Engineers, Inc.
3284 Lochness Drive
Lexington, Kentucky 40517
(859) 271-3246

BY: Walt Shropshire

DATE: June 9, 2014

Project:

University of Kentucky
South Campus Parking Lot

dixon
electric, inc.

murl.caudill@dixonelectric.com

516 W. Fourth St.
Lexington, Ky 40508
(OFFICE) 859-276-2575
(FAX) 859-276-4809

Submittals

LIGHT FIXTURE PACKAGE

General Contractor

dixon
electric, inc.

These submittals have been reviewed for compliance with the contract documents.

Reviewer: MC


Engineer

Architect

**Project: U of K South Campus Parking Lot**

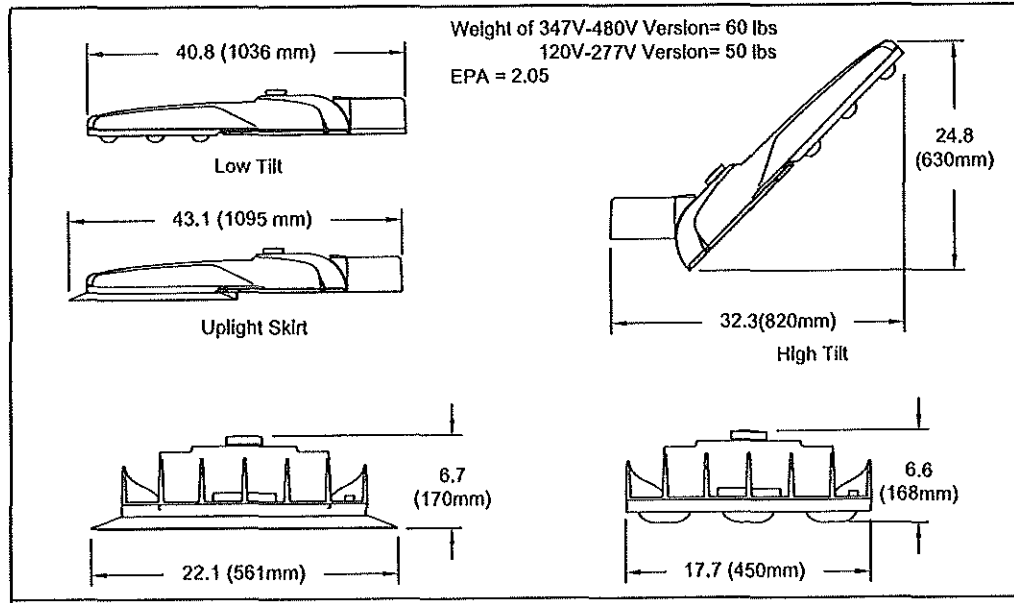
Contents - May 23, 2014

Type	Factory	Description
OLF-1	Holophane	MGLED 6 5K AS A L A Z US
OLF-1	Hapco Poles	RTA40D8B4
OLF-2	Holophane	MGLED 6 5K AS A L A Z US
OLF-2	Hapco Poles	RTA40D8B4

Submitting Agency:
 LHI Lighting Sales, Inc
 502-964-9681

Description: **MGLED 6 5K AS A L A Z US**
 Project: **U of K South Campus Parking Lot**
 Notes:

Type:
OLF-1



MONGOOSE LED™
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Infrastructure
 Outdoor

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 An Acuity Brands Company
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MGLED	6	5K	AS
Series Code	Number of LED'S	Color Temperature	Voltage
	4= 4 COB 5= 5 COB 6= 6 COB 7= 7 COB 8= 8 COB 9= 9 COB	4K= 4000 Kelvin 5K= 5000 Kelvin	AS= 120V-277V AH= 347V-480V
A	L	A	Z
Optics	Tilt Range	Mounting	Color
N = Narrow Roadway M = Medium Roadway W = Wide Roadway F = Forward Throw (Type 4) A = Area (Type 5)	H = High (27° - 45°) L = Low (0° - 18°)	V = Vertical Tenon H = Horizontal Arm A = Architectural	G = Gray H = Graphite K = Black N = Green W = White Z = Bronze

ORDERING INFORMATION:

US

Standard Options


NL = NEMA Label
 P3 = 3 PIN NEMA Photocontrol Receptacle
 DM = 0V - 10V dimmable driver
 DE = ROAM Concierge/Enterprise
 VE = ROAMview
 PCSS = DSS 120-277V Photocontrol
 PCL1 = DLL 120V Photocontrol
 PCL3 = DLL 347V Photocontrol
 PCL4 = DLL 480V Photocontrol
 SP= Individual unit/Sample pack
US = Uplight Skirt (DLC Approved)

Special Options *

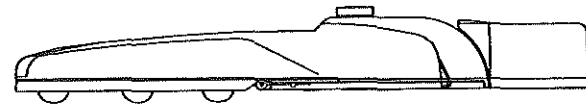
ML=Multi-Level Dimming
 CLO = Constant Lumen Output

*Additional information is required from the customer. Please contact Infrastructure TSG for assistance.

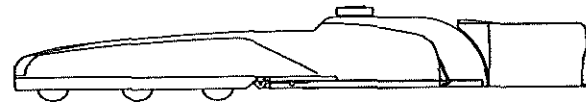
ORDER #:
 TYPE:
 DRAWN: BGW
 DATE: 1/22/14
 DWG #: MONGOOSE LED
 1 of 4

Submitting Agency:  LHI Lighting Sales, Inc. 502-964-9681	Description: MGLED 6 5K AS A L A Z US Project: U of K South Campus Parking Lot Notes:	Type: OLF-1
--	---	-----------------------

Mounting



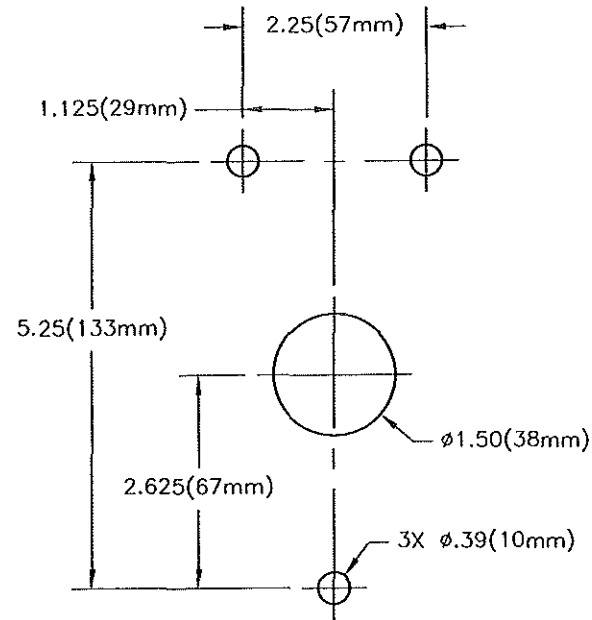
V = Vertical Tenon
 Attaches to 2" Vertical Tenon



H = Horizontal Arm
 Attaches to 2" Horizontal Arm



A = Architectural
 Attaches to Square Pole or Tenon
 Adaptor (See Pole Pattern Below)




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THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE LIGHTING FIXTURE. THE CUSTOMER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. A LIST OF LOCAL DESIGNERS MAY BE SUPPLIED UPON REQUEST. THE CUSTOMER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CUSTOMER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CUSTOMER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

ORDER #:	
TYPE:	
DRAWN:	BGW
DATE:	1/22/14
DWG #:	MONGOOSE LED

Submitting Agency:  LHI Lighting Sales, Inc 502-994-9661	Description: MGLED 6 5K AS A L A Z US Project: U of K South Campus Parking Lot Notes:	Type: OLF-1
--	---	------------------------------

Specifications

Optical

Performance is comparable to 150 - 400 watt HID
 IP66 rated borosilicate glass optics ensure longevity and minimize dirt depreciation
 4,000K CCT, 70 CRI Min. or optional 5,000K CCT, 70 CRI Min.
 Available with Narrow roadway, Medium Roadway, Wide Roadway, Forward Throw, and Area Type lighting distributions

Electrical

Electronic driver has an expected life of 100,000 hours at 25°C
 LED light engines are rated > 100,000 at 25°C, L70
 Robust ANSI/IEEE C62.4 Category C (10kV/5kA) fixture protection is provided by a specially designed Acuity surge protection device

Mechanical

Rugged low copper diecast aluminum coupled with a rigorous 5-stage pretreatment, epoxy basecoat and polyester topcoat yield a finish that achieves a scribe creepage rating of 8 after 5,000 hours of salt spray. Removable "power door" facilitates product installation and maintenance
 Corrosion resistant stainless steel latches ensure secure closure over the long fixture life
 Multiple mounting configurations allow for attachment to horizontal mast arms, pole top tenons, and direct mounting to square poles. All Mountings are 3G vibration rated per ANSI C136
 Adjustable fixture tilt from 0 - 45 degrees provides flexibility to optimize lighting performance


Controls

Premium solid state locking-style photocontrol - PCSS (10 year rated life)
 Extreme long life solid state locking-style photocontrol - PCLL (20 year rated life)
 Multi-level dimming
 DE and VE options allow the fixture to be dimmed using the ROAM control system

Warranty & Standards

5 Year limited warranty. Full warranty terms located at http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx
 Rated for -40C to 40C ambient
 CSA Certified to US and Canadian standards

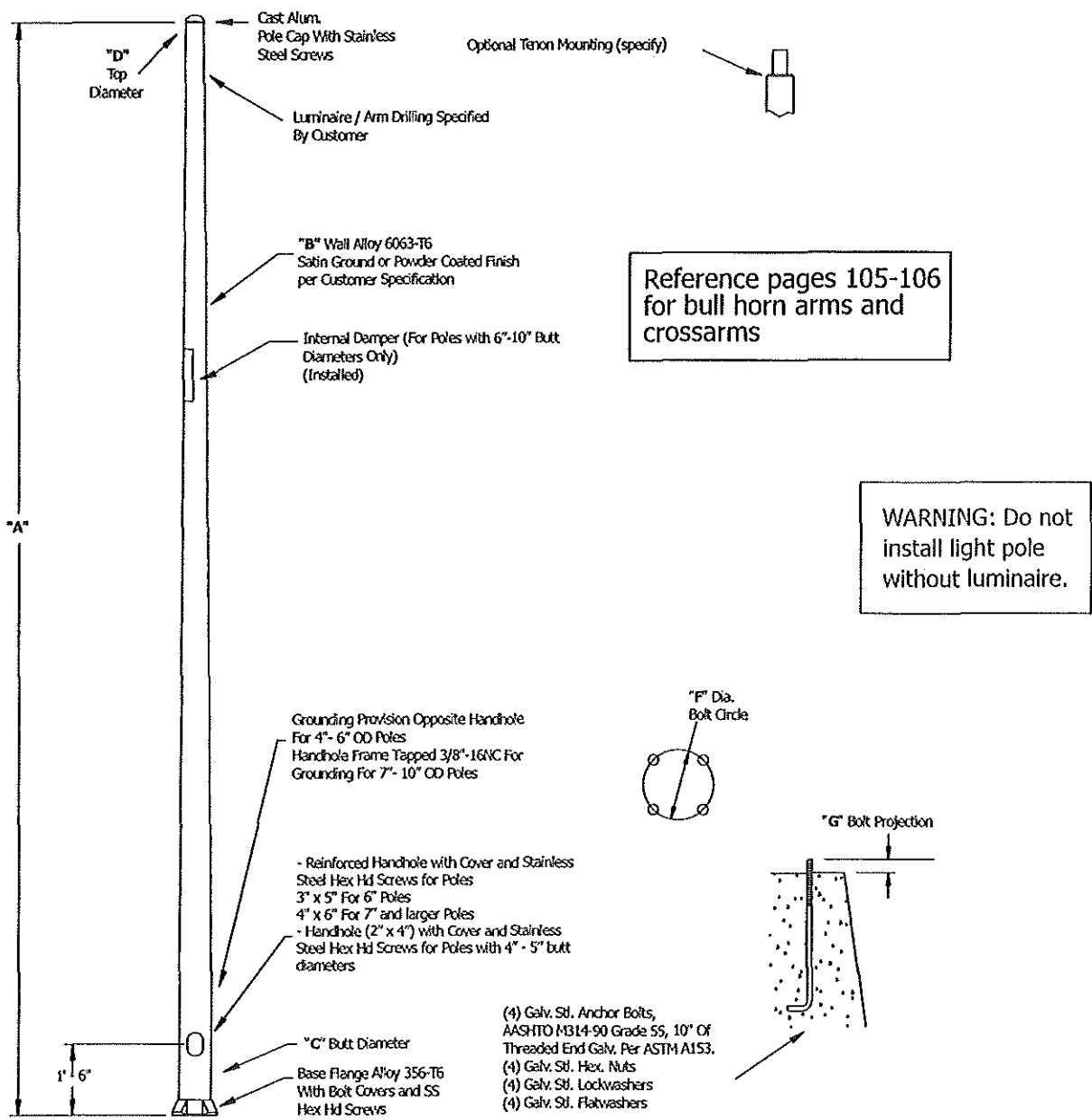
MONGOOSE LED™ LED Roadway Lighting	Infrastructure Outdoor	 HOLOPHANE LEADING LIGHTING SOLUTIONS An Acuity Brands Company © 2010 Acuity Brands Lighting, Inc. All Rights Reserved	<p style="font-size: 8px;">THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE. HOLOPHANE SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE MATERIAL, BUT ONLY AT THE OPTION OF THE CUSTOMER. THE CUSTOMER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE MOUNTING AND SUPPORT STRUCTURE. HOLOPHANE SHALL NOT BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE MOUNTING AND SUPPORT STRUCTURE. HOLOPHANE SHALL NOT BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE MOUNTING AND SUPPORT STRUCTURE. HOLOPHANE SHALL NOT BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE MOUNTING AND SUPPORT STRUCTURE.</p>	ORDER #: TYPE: DRAWN: BGW DATE: 1/22/14 DWG #: MONGOOSE LED
---------------------------------------	---------------------------	--	---	---

Submitting Agency:  LHI Lighting Sales, Inc 502-964-9661	Description: RTA40D8B4 Project: U of K South Campus Parking Lot Notes:	Type: OLF-1
--	---	-----------------------



4 Bolt Base

RTA40D8B4-



Mounting Height: 40 ft

Wall Thickness:	.188 in
Butt Diameter:	8 in
Top Diameter:	4.5 in
Base Diameter:	11.25 in
Bolt Circle:	11 - 12 in
Bolt Projection:	2.75 in
Bolt Size:	1 x 36 x 4
Net Weight:	200
Minimum Weight:	100
Arm Length:	
Quantity:	

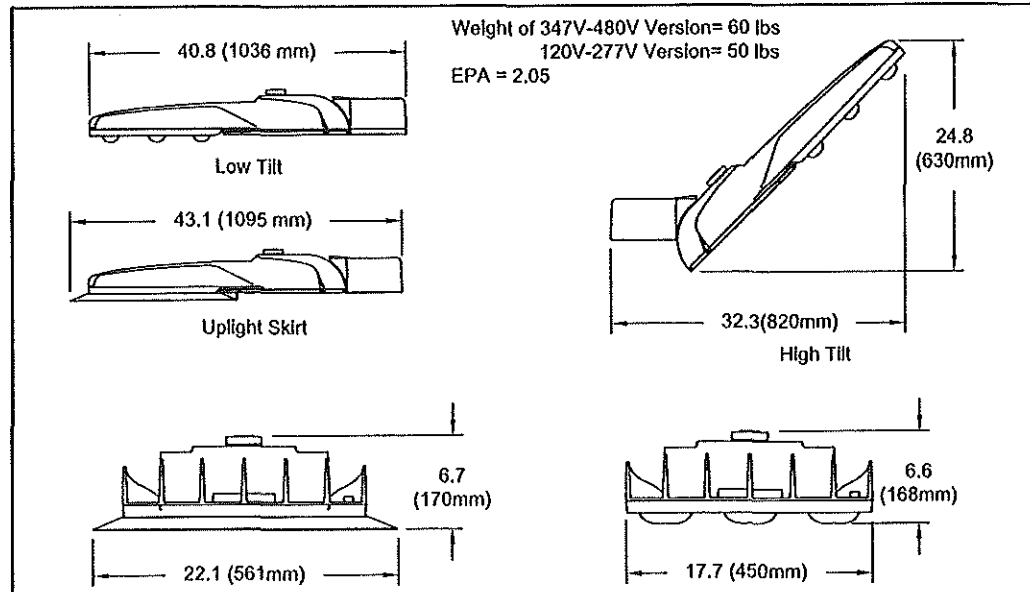
Maximum EPA

70:	7.1
80:	4.2
90:	2.9
100:	2.1
110:	1.4

Accessories

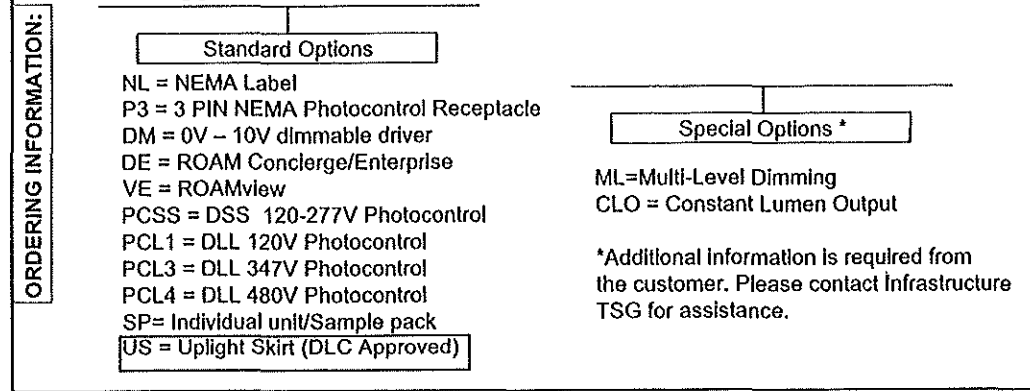
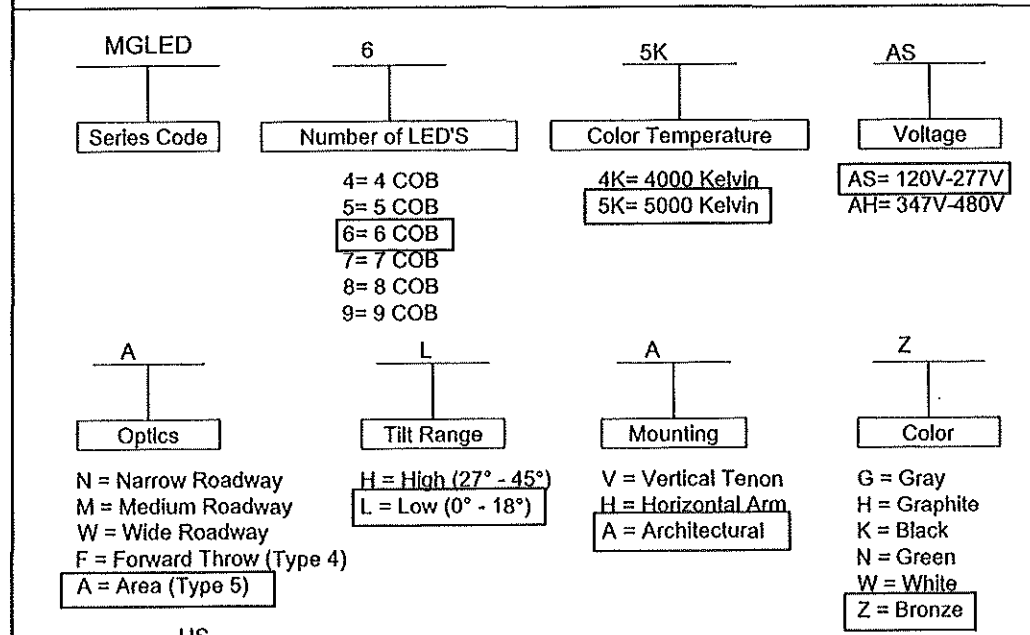
Your Name:
 Representative Name:
 Architect Name:
 Project Name:
 Customer P.O. #:
 Finish: -
 Date: 05/23/2014
 Notes:

Submitting Agency:  LHI Lighting Sales, Inc 502-964-9661	Description: MGLED 6 5K AS A L A Z US Project: U of K South Campus Parking Lot Notes:	Type: OLF-2
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LED Roadway Lighting

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ORDER #:	
TYPE:	
DRAWN:	BGW
DATE:	1/22/14
DWG #:	MONGOOSE LED

Submitting Agency:
 LHI Lighting Sales, Inc
 502-964-9661

Description: **MGLE 6 5K AS A L A Z US**
 Project: **U of K South Campus Parking Lot**
 Notes:

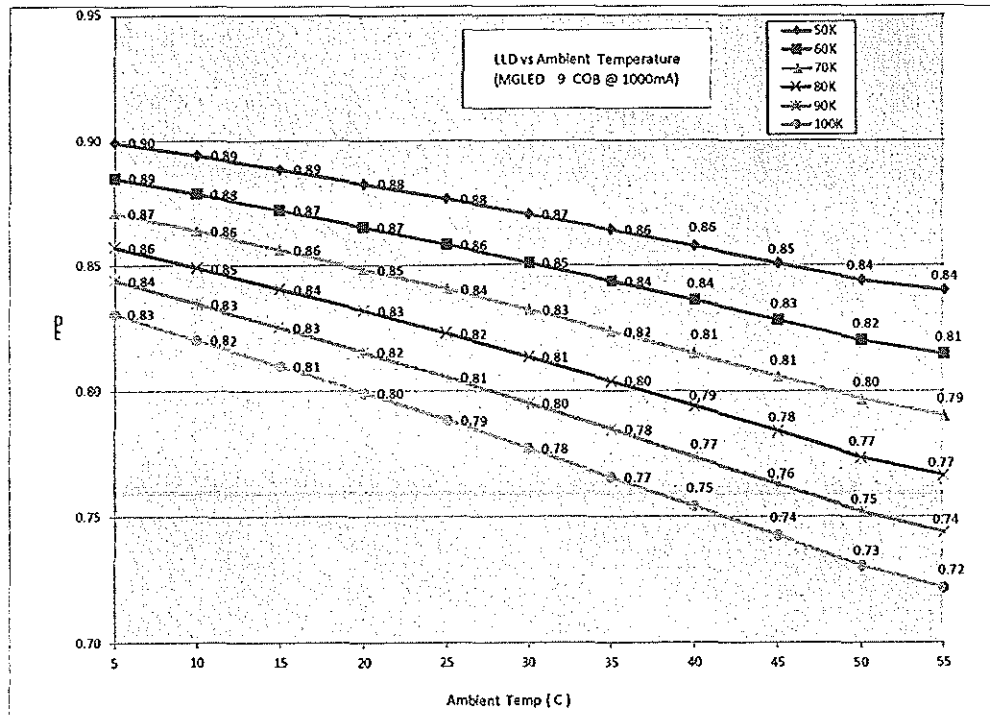
Type:
OLF-2

LED Count	Distribution	Std. Unit		Unit with US Option		Input Watts
		Lumens	LPW	Lumens	LPW	
9 Chip	Narrow	36,507	99	35,295	96	367
	Medium	36,095	98	35,321	96	
	Wide	35,869	98	35,114	96	
	Forward Throw	34,420	94	33,815	92	
	Area	38,181	104	37,010	101	
8 Chip	Narrow	32,577	99	31,166	95	328
	Medium	32,188	98	31,189	95	
	Wide	32,093	98	31,007	95	
	Forward Throw	30,741	94	29,860	91	
	Area	34,068	104	32,680	100	
7 Chip	Narrow	28,756	99	27,392	94	290
	Medium	28,423	98	27,412	95	
	Wide	28,278	98	27,252	94	
	Forward Throw	27,102	93	26,244	90	
	Area	30,046	104	28,722	99	
6 Chip	Narrow	24,540	100	23,572	96	245
	Medium	24,229	99	23,590	96	
	Wide	24,140	99	23,452	96	
	Forward Throw	23,130	94	22,584	92	
	Area	25,609	105	24,718	101	
5 Chip	Narrow	20,631	100	19,808	96	206
	Medium	20,381	99	19,823	96	
	Wide	20,316	99	19,707	96	
	Forward Throw	19,413	94	18,978	92	
	Area	21,514	104	20,771	101	
4 Chip	Narrow	16,638	99	15,997	95	168
	Medium	16,446	98	16,009	95	
	Wide	16,378	97	15,915	95	
	Forward Throw	15,620	93	15,326	91	
	Area	17,357	103	16,774	100	

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Infrastructure
 Outdoor

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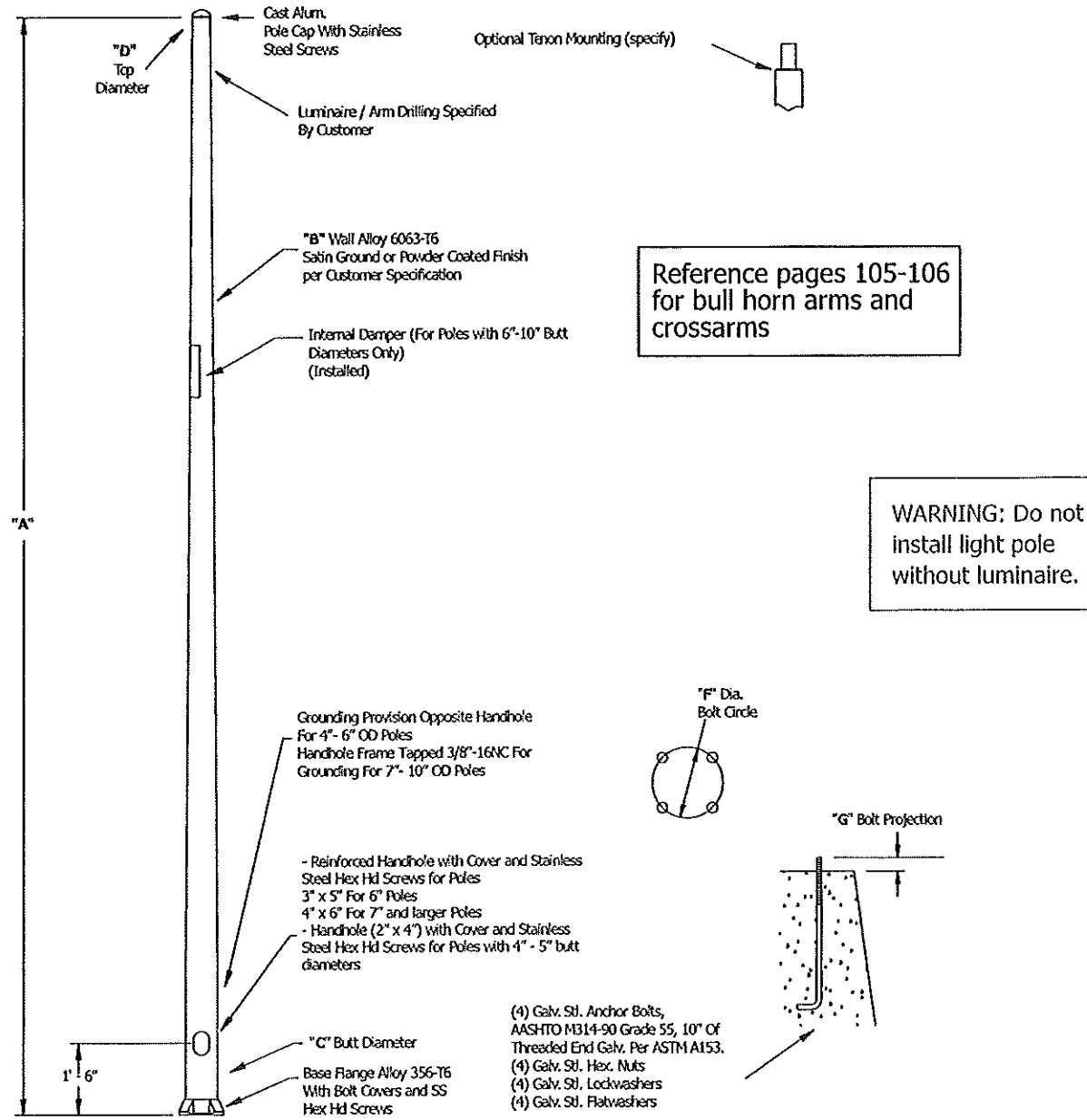
ORDER #:
 TYPE:
 DRAWN: BGW
 DATE: 1/22/14
 DWG #: MONGOOSE LED

Submitting Agency:  LHI Lighting Sales, Inc 502-984-9861	Description: RTA40D8B4 Project: U of K South Campus Parking Lot Notes:	Type: OLF-2
--	---	------------------------------



4 Bolt Base

RTA40D8B4-



Mounting Height:	"E" Square 40 ft	
Wall Thickness:	.188 in	Maximum EPA
Butt Diameter:	8 in	70: 7.1
Top Diameter:	4.5 in	80: 4.2
Base Diameter:	11.25 in	90: 2.9
Bolt Circle:	11 -12 in	100: 2.1
Bolt Projection:	2.75 in	110: 1.4
Bolt Size:	1 x 36 x 4	
Net Weight:	200	Accessories
Luminary Weight:	100	
Arm Length:		
Quantity:		

Your Name:
Representative Name:
Architect Name:
Project Name:
Customer P.O. #:
Finish: -
Date: 05/23/2014
Notes:

QUAZITE ENCLOSURE

Enclosure: PG1118DG18

Cover "Electrical": PG1118HG0017

Cover "Communications": PG1118HG0012

dixon
electric, inc.
murl.caudill@dixonelectric.com
516 W. Fourth St.
Lexington, Ky 40508
(OFFICE) 859-276-2575
(FAX) 859-276-4809

Project:
University of Kentucky
South Campus Parking Lot

Submittals
QUAZITE IN GROUND BOX

General Contractor

dixon
electric, inc.
These submittals have been reviewed for
compliance with the contract documents.
Reviewer: MC

Engineer

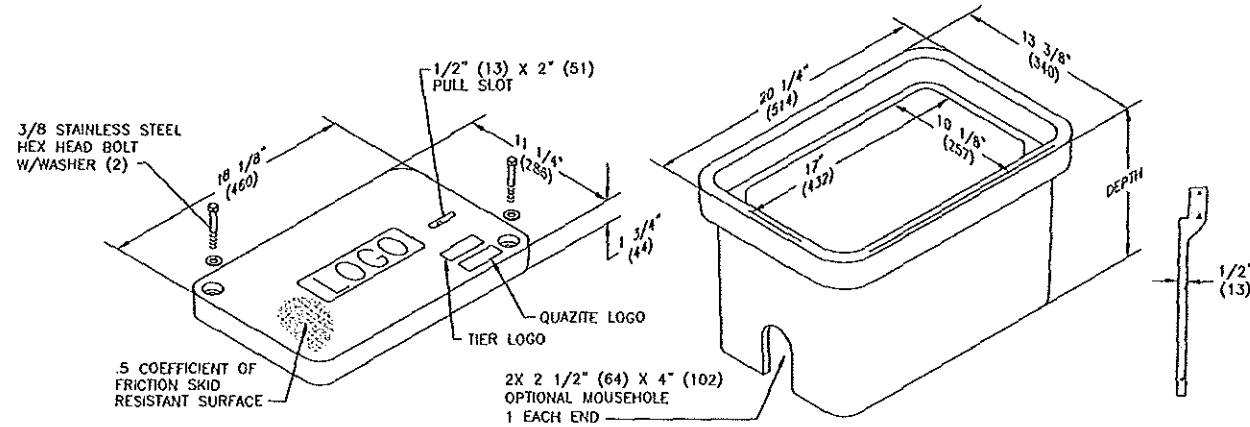
Architect



Dimensions / Data

11" x 18" PG Style Polymer Concrete (Stackable) Assembly

Hex Head Bolts are Standard



ENCLOSURE DRAWINGS

Covers

DESCRIPTION	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
U ₂ W/ 2 Bolts	8	8,000 / 12,000	27	40	PG1118CA00**
U ₃ W/ 2 Bolts	15	15,000 / 22,500	27	40	PG1118HA00**
U ₄ No Bolts	8	8,000 / 12,000	27	40	PG1118WA00**
U ₅ W/ 2 Bolts	22	22,500 / 33,750	27	40	PG1118HH00**

To order gasketed covers, replace the letter "A" with the letter "G".

Replace ** with a logo code found on page 18.

NOTE: Gasketed covers and bolt grommets must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.

Boxes

DESCRIPTION	DEPTH	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
U ₁ Standard Open Bottom	12"	22	22,500 / 33,750	40	30	PG1118BA12
U ₂ Standard Open Bottom	18"	22	22,500 / 33,750	53	24	PG1118BA18
U ₃ Solid Bottom	12 1/2"	22	22,500 / 33,750	43	30	PG1118DA12
U ₄ Solid Bottom	18 1/2"	22	22,500 / 33,750	60	24	PG1118DA18
U ₅ Footed Box	12 1/2"	22	22,500 / 33,750	41	30	PG1118JA12
U ₆ Footed Box	18 1/2"	22	22,500 / 33,750	55	24	PG1118JA18

To order boxes with 2 standard mouseholes, replace the letter "A" with the letter "B".

To order gasketed boxes, replace the letter "A" with the letter "G".

NOTE: Gasketed covers and bolt grommets must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.



Inspections

Section 165600
Exterior Lighting



PUBLIC PROTECTION CABINET
DEPARTMENT OF HOUSING, BUILDINGS & CONSTRUCTION
DIVISION OF BUILDING CODE ENFORCEMENT
ELECTRICAL INSPECTION SECTION
101 Sea Hero Rd., Suite 100, FRANKFORT, KENTUCKY 40601-5412
PHONE 502-573-1797 FAX 502-573-1598

Steven L. Beshear
08/19/2014 GOV # 40
Robert D. Vance
Secretary
Ambrose Wilson IV
Commissioner
Jack L. Coleman
Deputy Commissioner

21-14-07-0001

FIELD INSPECTION REPORT

PROJECT/ ENG. FILE #: BD00101 PERMIT #: _____ DATE: 7/6/14
PROJECT LOCATION: UK South Parking Lot Lighting (Phase I)
PROJECT DESCRIPTION: Underground TYPE OF CONSTRUCTION: NEW RENOVATION
ADDRESS: Alumni + University Dr. Lexington
Street City/County Zip Code
Type of Occupancy: Residential Commercial/Industrial University/College OTHER
 Consultation Complaint Rough-In Temporary Service Approved FINAL Inspection / Sticker #
 TEMPORARY OCCUPANCY GRANTED FOR _____ DAYS CERTIFICATE OF COMPLIANCE NUMBER ISSUED _____
NUMBER OF HOURS ON INVESTIGATION: _____ NUMBER OF MILES TRAVELED: _____
OWNER'S NAME: UK

ADDRESS: _____
Street City/County Zip Code Phone #
ELECTRICIAN/COMPANY: Dixon Electric CONTACT PERSON: Robert Shearer
CONTRACTOR LICENSE #: 16154 MASTER ELECTRICIAN LICENSE #: 27938 ELECTRICIAN LICENSE #: _____
ADDRESS: 5160 W. 4th St Lexington Zip Code 60217561
Street City/County Zip Code Phone #
MET WITH: Robert Shearer TITLE: Foreman

COMMENTS / VIOLATION W/ ARTICLE #'S:

[A] Inspected + passed the underground 1 1/4 in PVC for pole light bases (Phase I).

There will 23 new Pole Lights 208V 1ph with #4 Cu grad to 10-ft grad rods. (1 per light)

Existing parking lot had to be bored 1 1/4 in feeders - inner duct

Adam Howard MR 27833 5/31/15
Robert Shearer MR 27938 6/30/14
David Prather MR 33173 8/31/14

ELECTRICAL INSPECTOR NAME: J. Quince CERTIFICATION # 117



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08/19/2014 Steven L. Beshear
Governor
Robert D. Vance
Secretary
Ambrose Wilson IV
Commissioner
Jack L. Coleman
Deputy Commissioner

FIELD INSPECTION REPORT

E-14-07-0001

PROJECT/ ENG. FILE #: BD00161 PERMIT #: _____ DATE: 7/23/14

PROJECT LOCATION: UK South Parking Lot Lighting

PROJECT DESCRIPTION: underground TYPE OF CONSTRUCTION: NEW RENOVATION

ADDRESS: Alumni + University Dr. Lex / Fayette
Street City/County Zip Code

Type of Occupancy: Residential Commercial/Industrial University/College OTHER _____

Consultation Complaint Rough-In Temporary Service Approved FINAL Inspection / Sticker # _____

TEMPORARY OCCUPANCY GRANTED FOR _____ DAYS CERTIFICATE OF COMPLIANCE NUMBER ISSUED _____

NUMBER OF HOURS ON INVESTIGATION: _____ NUMBER OF MILES TRAVELED: _____

OWNER'S NAME: UK

ADDRESS: _____
Street City/County Zip Code Phone #

ELECTRICIAN/COMPANY: Dixon Electric CONTACT PERSON: Robert Shearer

CONTRACTOR LICENSE #: 16154 MASTER ELECTRICIAN LICENSE #: 27938 ELECTRICIAN LICENSE #: _____

ADDRESS: 516 W. 4th St Lex / Fayette 621-7561
Street City/County Zip Code Phone #

MET WITH: Robert Shearer TITLE: Foreman

COMMENTS / VIOLATION W/ ARTICLE #'S: _____

Looked over more of the 1/2 pipe underground
for parking lot lighting + pole bases - OK

ELECTRICAL INSPECTOR NAME: W. M. M... CERTIFICATION # 117

Final Electrical Inspections to be Inserted Here