



November 21, 2024

To All Proposers:

Subject: **Bid #: 8319-W5, Lincoln Square Improvements / DPWP**

ADDENDUM NO. 3

To Whom It May Concern:

With reference to our proposal request relative to the above subject, please refer to the changes/modifications/clarifications to the original proposal request.

- **PLEASE SEE ATTACHED GENERAL BID CLARIFICATIONS.**
- **BIDDERS ARE INSTRUCTED TO SUBMIT THE UNIT PRICES REQUESTED ON THIS FORM**

1. Unit Price for additional installed aggregate piers or rigid inclusion (w/o remobilization):

\$ _____ Lump Sum

2. Unit Price Credit for aggregate piers or rigid inclusion not installed:

\$ _____ Lump Sum

3. Unit Price for additional Modulus Tests (w/o remobilization):

\$ _____ Lump Sum

4. Credit per foot for difference between actual length and length of aggregate piers/rigid inclusions based on average length of **15** feet and actual length for piers.

\$ _____ Per Foot

5. Unit Price per foot difference between actual length and length of aggregate piers/rigid inclusions based on average length of **15** feet and actual length for piers.

\$ _____ Per Foot

6. Unit Price for additional Mobilizations

\$ _____ Each

Bidders are requested to acknowledge and/or include this addendum with submission. All other terms, conditions and specifications remain unchanged.

ADDENDUM NUMBER THREE

Date: November 21, 2024
Project: Lincoln Square Improvements
City of Worcester Department of Public Works and Parks
Parks, Recreation and Cemetery Division

General Bid Clarifications

1. Delete Specification 31 60 00, Section 3.14 and replace with:

3.14 PAYMENT AND UNIT PRICES

- A. Payment for the design and installation of ground improvements shall be based on a lump sum included in the base bid.
- B. For cost estimating purposes, aggregate piers/rigid inclusions shall be assumed on average to be 15 feet long. For average aggregate piers/rigid inclusions length that are shorter than 15 feet, a credit shall be provided in accordance with item **3.14.D**. For piers that are on average longer than 15 feet, the Contractor shall be compensated for a portion of the total length of aggregate piers/rigid inclusions in excess of length calculated based on an average length of 15 feet in accordance with item **3.14.D**.
- C. All unit prices must be coordinated and approved by the Owner.
- D. Payment shall include all costs for design and installation of the aggregate piers and in accordance with requirements of the Contract Documents. Payment for the Work of this Section shall be made following approval by the Owner in accordance with requirements of the Contract Documents, and the following Schedule:

Unit Price for additional installed aggregate piers or rigid inclusion (w/o remobilization):

\$ _____ Lump Sum

Unit Price Credit for aggregate piers or rigid inclusion not installed:

\$ _____ Lump Sum

Unit Price for additional Modulus Tests (w/o remobilization):

\$ _____ Lump Sum

Credit per foot for difference between actual length and length of aggregate piers/rigid inclusions based on average length of **15** feet and actual length for piers.

\$ _____ Per Foot

Unit Price per foot difference between actual length and length of aggregate piers/rigid inclusions based on average length of **15** feet and actual length for piers.

\$ _____ Per Foot

Unit Price for additional Mobilizations

\$ _____ Each

General Bid Questions

1. Please confirm that a 24" x 18" x 18" stainless steel PA cabinet is required on the project per Special Conditions Article 40. Plans do not show the location.
 - a. **No, it is not required.**
2. Please see lighting fixture schedule on drawing E0.1. Under the "Remarks" column of the type SL1 light pole, there is mention of types SL2 and SL3 light fixtures. What are these fixtures? It is our understanding that type SL1 lighting has one light fixture, not three.
 - a. **Yes, just one style light fixture. Please disregard all references to SL2 and SL3. Revised Project Standard for light fixture SL1 and pole, attached. Furnish and install two auxiliary electrical exits per pole.**
3. Duct bank section B-B shown on drawing E2.1 calls for 1" HDPE for communications wiring (camera fiber optic cable). The Camera Riser Diagram shown on drawing E0.1 show 2" HDPE. Which is correct, 1" or 2" HDPE? **All communication conduits are 2" HDPE between handholds and to service cabinet/pedestal. Communication conduits from handhold to light pole base is 1" schedule 40.**
4. Can PVC SCH 40 conduit be installed in lieu of HDPE? HDPE is typically used along highways where distances between handholes are extremely long, and fiber is blown in. All the distances on this project are short, and we see no benefit of HDPE.
 - a. **No.**
5. Please confirm that on drawing E1.1, the descriptions of the two conduits heading towards electrical and telecommunications manholes are reversed. **Yes. The conduit labels are reversed. A revision to the drawing will be issued prior to construction.**
6. National Grid does not allow contractors to install cable into their manholes. Shouldn't there be a demarcation handhole between the manhole and load center? **For bidding purposes, the contractor is to carry the work to the manhole as shown on the contract documents.**
7. Can the new electrical service be changed from three-phase to single-phase since there are no three-phase loads required on the project? **No, bid the contract drawings. This service is sized for future upgrades.**
8. Is the contractor required to install fiber optic cable from the Hubbell enclosure in the electrical cabinet to the telecommunications manhole? If so, please specify the cable.
 - a. **Yes, See Article 39**
9. The Typical Handhole Pullbox Detail shown on drawing E2.1 is excessively oversized, particularly for the electrical system. Can the handhole size be reduced, as long as it is in compliance with the electrical code?
 - a. **Revised Project Standard Handholes and sizes attached.**
10. Is the City of Worcester responsible for payment of National Grid and Telephone Company charges for new electrical and fiber optic services?
 - a. **Yes**
11. Is the contractor allowed a markup on the \$125,000 allowance carried in their bid as payments to Siemens are made?
 - a. **Yes, as per Section 12.4 Equitable Adjustments.**
12. Is Siemens responsible for fiber optic terminations at the electrical cabinet and the six cameras?
 - a. **Siemens is typically not tasked for fiber optic install. Fiber optic cable installation shall be included as part of Add Alternate # 1 - Phase 3. See Article 39 Special Conditions and Specifications.**
13. Can the 0.8% of contract value electrical permit fee be waived considering it is a City owned project?
 - a. **No**
14. Is the electrical work on the project required to be completed by the Phase 2 deadline of 3/31/26, or the Phase 3 deadline of 5/1/27?
 - a. **Phase 3 deadline.**
15. The technical specification lists a section 071113 Bituminous Dampproofing. No dampproofing is shown on any of the details for the concrete foundation walls. Please confirm bituminous dampproofing is not required for this project.
 - a. **Yes, the damp proofing is necessary – it is meant to protect the joint between the footing and the stem. Especially since the plaza is pervious concrete, the footings will be exposed to moisture and should be protected. The damp proofing spec specifies the location and application of this item.**

Attachments:

Project Standard Handholes/pullbox - 24" x 36" for communication and 12" x 24" for electric. (6 pages)

Project Standard Light fixture and pole Type SL1 (9 pages)

Holophane auxiliary electrical exits (2 pages)

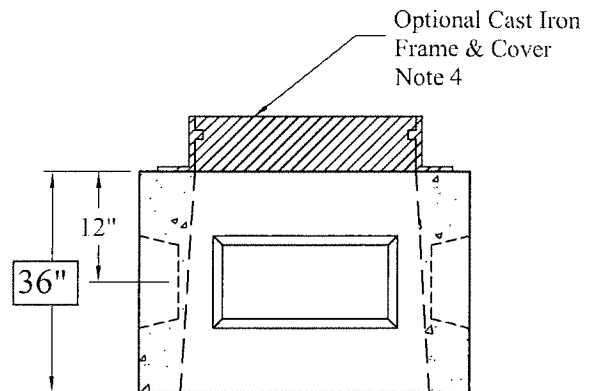
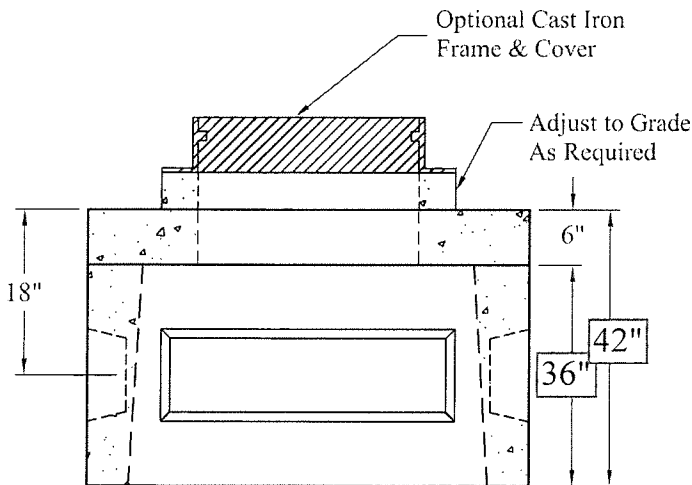
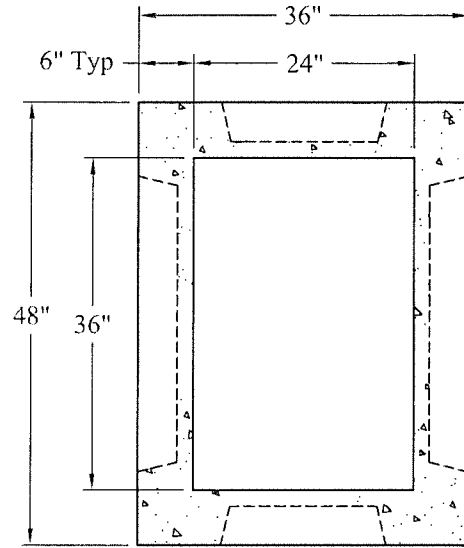
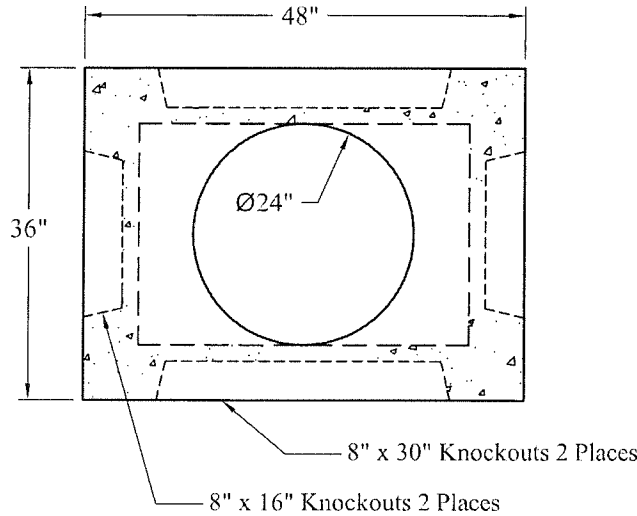
END OF ADDENDUM THREE

1-800-639-2199

Fax (603) 224-2927

Electrical Pull Boxes 24" x 36" x 24" Inch Pull Box (v)

Phoenix Precast Products



Est Weight:

Top Slab:	660 Lbs
Base:	2355 Lbs
Total:	2955 Lbs

General Notes

- 1.) Concrete fc: 4,000 psi @ 28 Days Minimum
- 2.) Reinforcement Steel: ASTM A615 Grade 60 Rebar
- 3.) Design Loading: AASHTO-HS20-44
- 4.) Rectangular Cover N1878 B72

Phoenix
Precast
Products

24" x 36" x 36"
Pull Box

P/N:

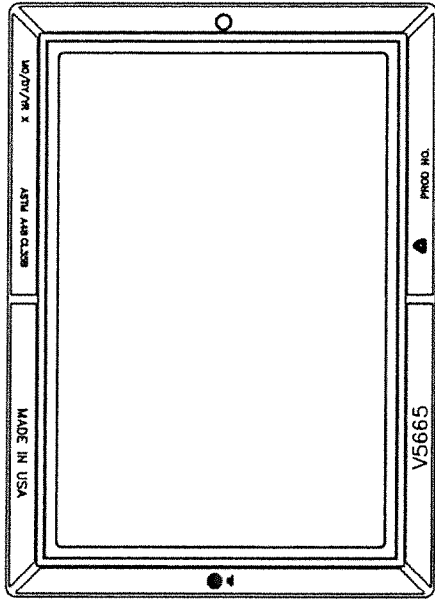
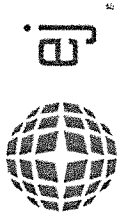
26Dec13_Rev2 ews

77 Regional Drive

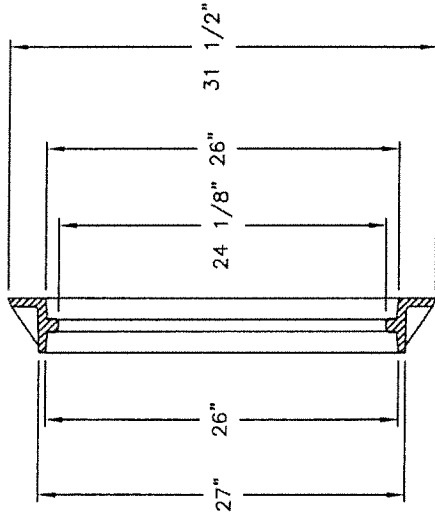
Concord, NH 03301

Phoenix Precast Products

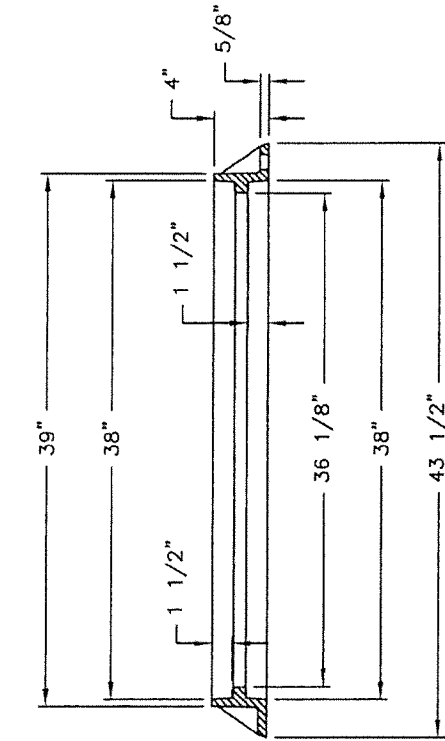
V5665 Frame



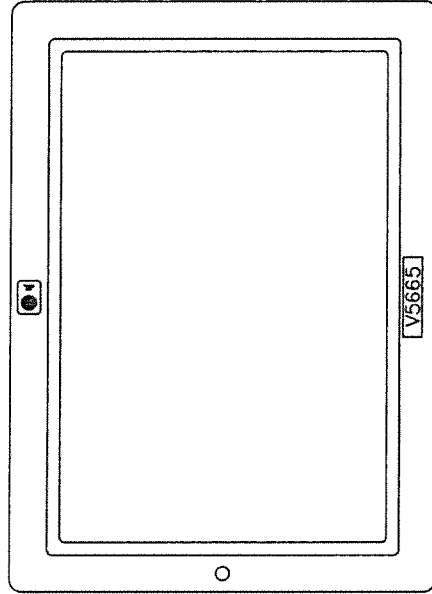
PLAN VIEW



FRAME SECTION



FRAME SECTION



TOP FLANGE VIEW

Product Number
45665010

Design Features

- Materials
Gray Iron (CL35B)
- Design Load
Heavy Duty
- Open Area
n/a
- Coating
Undipped
- Designates Machined Surface

Certification
-ASTM A48

-Country of Origin: USA

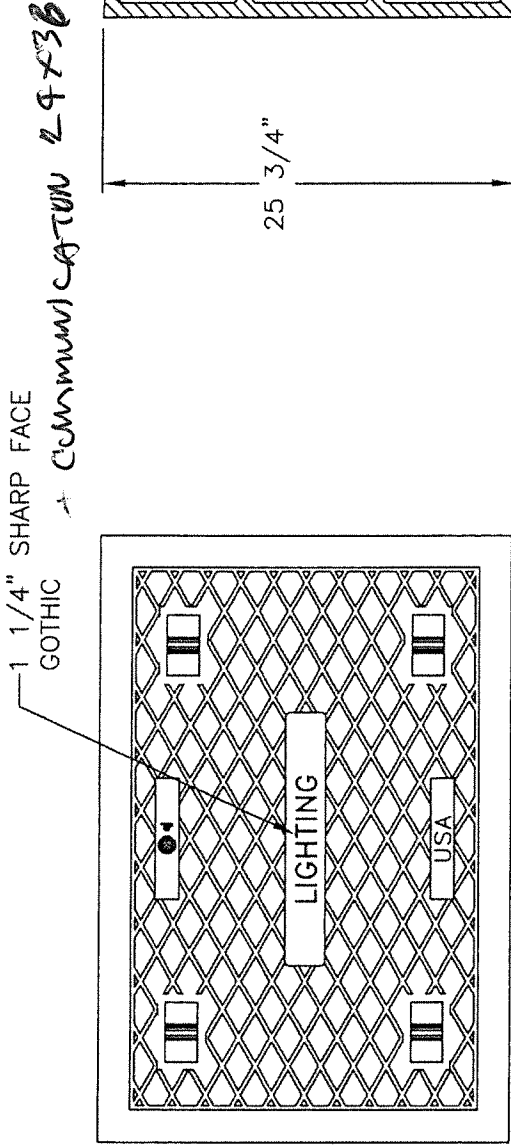
Drawing Revision
05/02/2003 Designer: DEW
09/08/2016 Revised By: DVD

Disclaimer
Weights (lbs./kg) dimensions (inches/mm)
and drawings provided for your guidance. We
reserve the right to modify specifications without
prior notice.

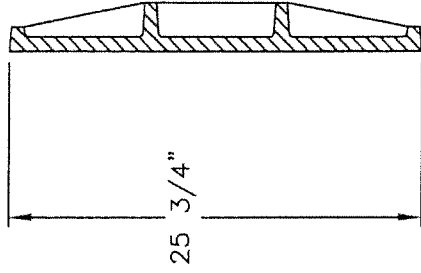
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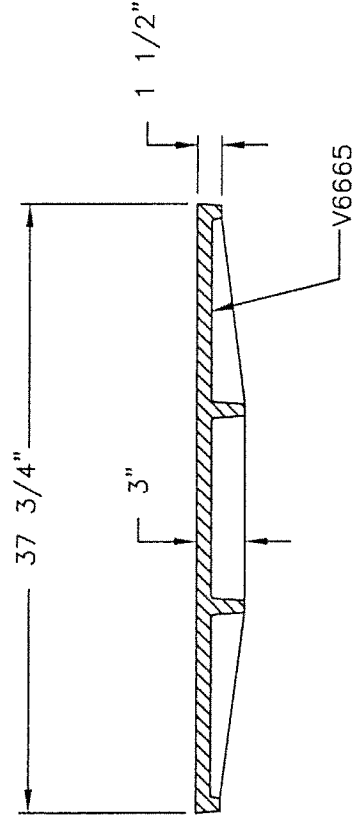
V6665 Cover



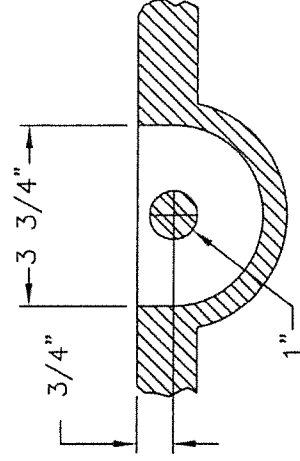
COVER TOP VIEW



COVER SECTION



COVER SECTION



(4) TYPE 4 STAINLESS STEEL PICKBARS
PICKBAR DETAIL

Product Number
46665022

Design Features

- Materials
Gray Iron (CL35B)
- Design Load
Heavy Duty
- Open Area
n/a
- Coating
Undipped
- Designates Machined Surface

Certification
-ASTM A48

-Country of Origin: USA

Drawing Revision
06/12/2006 Designer: TCL
6/3/2015 Revised By: DAE

Disclaimer
Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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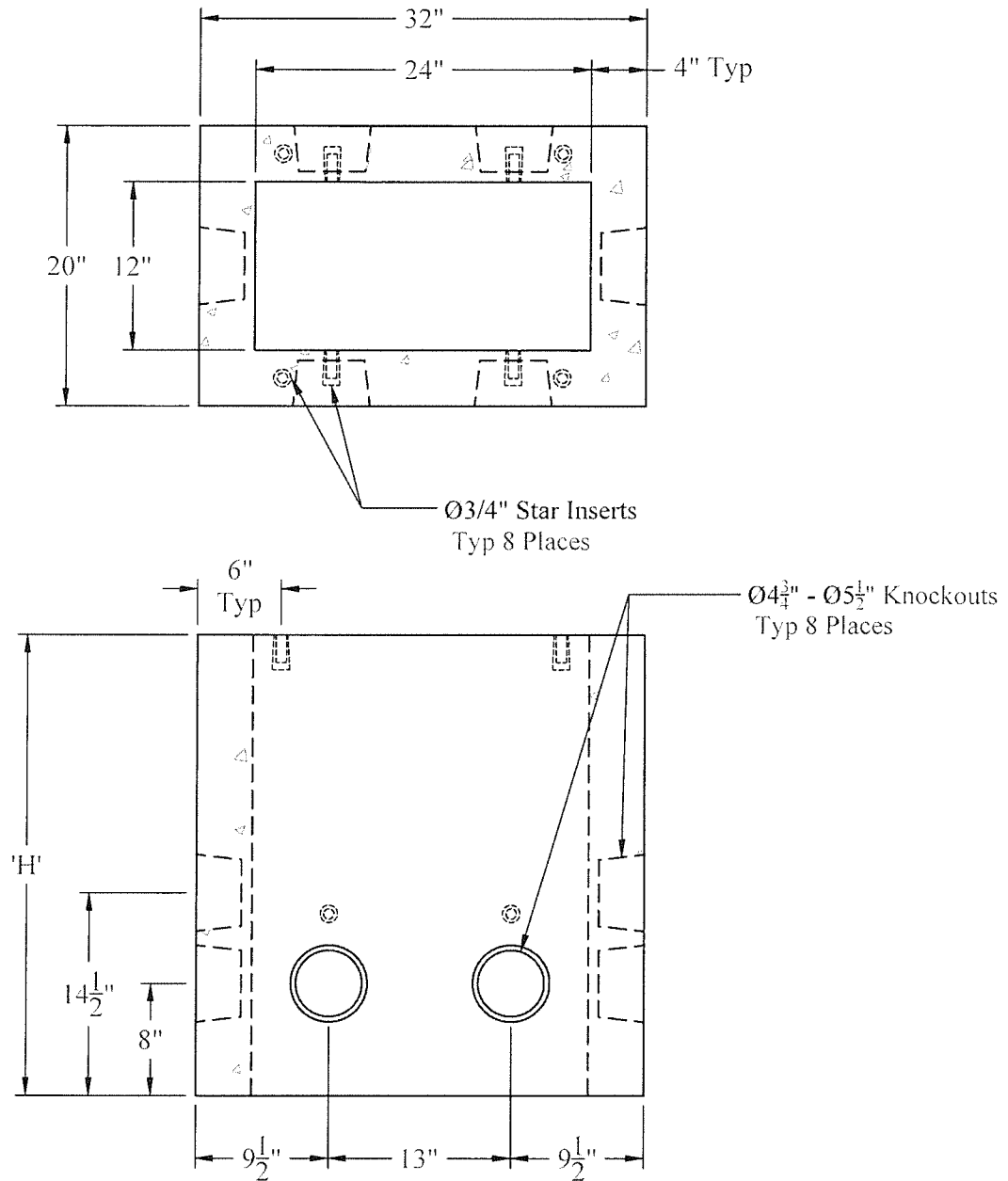
Contact
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ejco.com

1-800-639-2199

Fax (603) 224-2927

Electrical/Pull Boxes/12 X 24 Inch Pull Box_(v)_Rev0

Phoenix Precast Products



Dim 'H'	Est Weight:	P/N:
20"	600 Lbs	HH-12X24BOSSHT
33"	1,000 Lbs	HH-12X24BOSTALL

General Notes

1. Concrete: $f_c = 4,000$ psi @ 28 Days Minimum
2. Steel Reinforcement Conforms to Latest ASTM Specification: ASTM A-615, Grade 60 Black Deformed Bars
3. Boston Standard Pull Box

Phoenix
Precast
Products

12" x 24" Electric
Handhole

77 Regional Drive

Concord, NH 03301

Phoenix Precast Products

EJW EAST JORDAN
IRON WORKS EST. 1883
800-626-4653
www.ejiw.com
MADE IN USA

PRODUCT NUMBER
00801312

CATALOG NUMBER
8013Z1

LV1325 FRAME

LOAD RATING
HEAVY DUTY

COATING
UNDIPPED

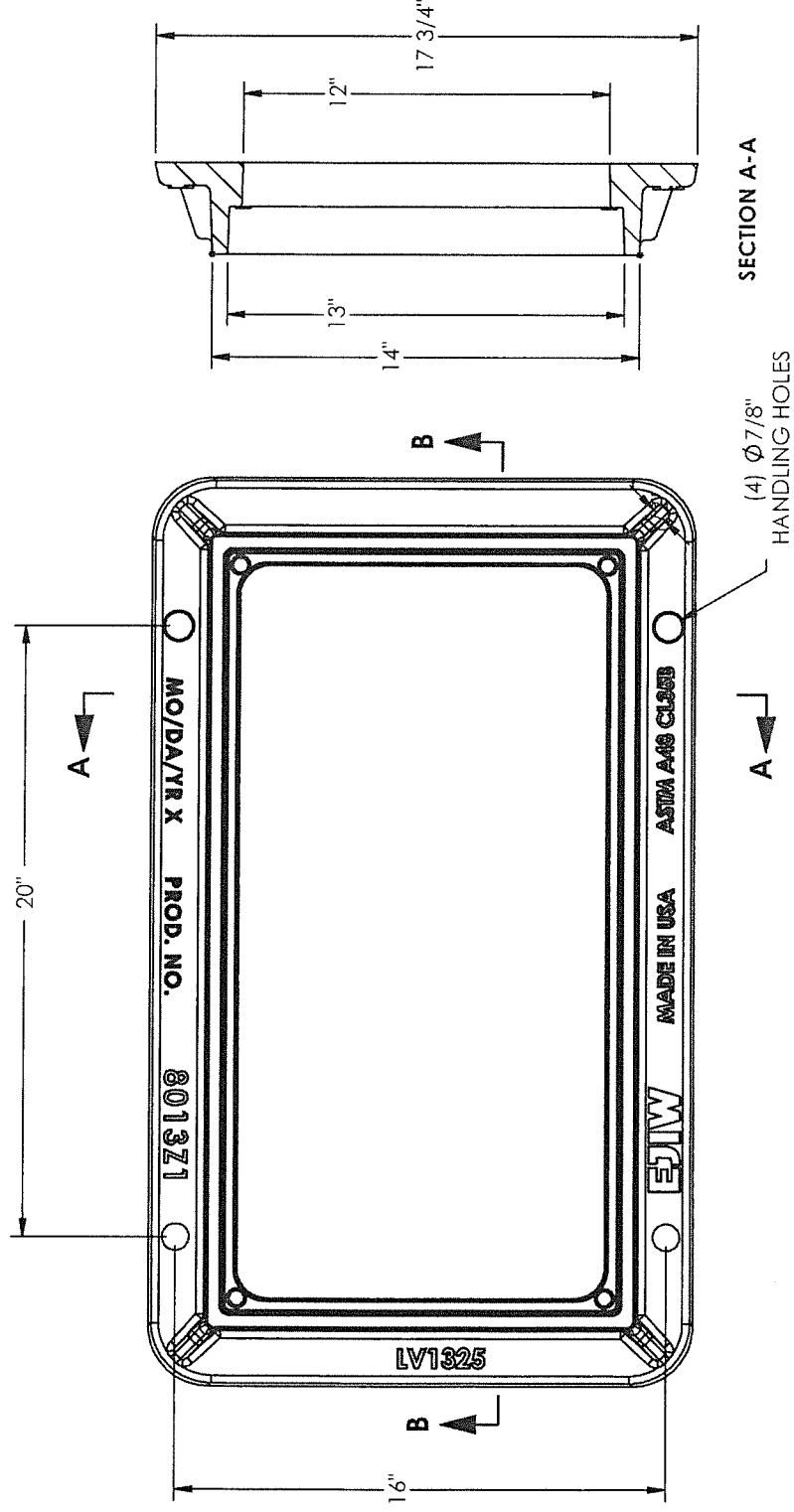
SPECIFICATION
**FRAME-GRAY IRON
ASTM A48 CL35B**

OPEN AREA
NA

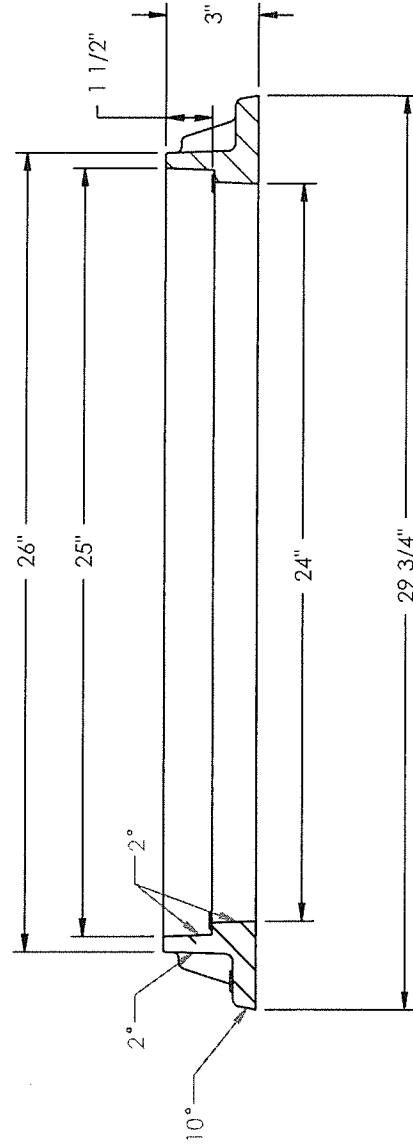
✓ DESIGNATES
MACHINED SURFACE

DRAWN
SBB
DATE
4/10/2009

LAST REVISED
DEW
DATE
6/29/2009



SECTION A-A



SECTION B-B

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EJIW EAST JORDAN
IRON WORKS EST. 1883
800-626-4653
www.ejiw.com

MADE IN USA
PRODUCT NUMBER
00801321

CATALOG NUMBER
8013A

**MANHOLE
COVER**

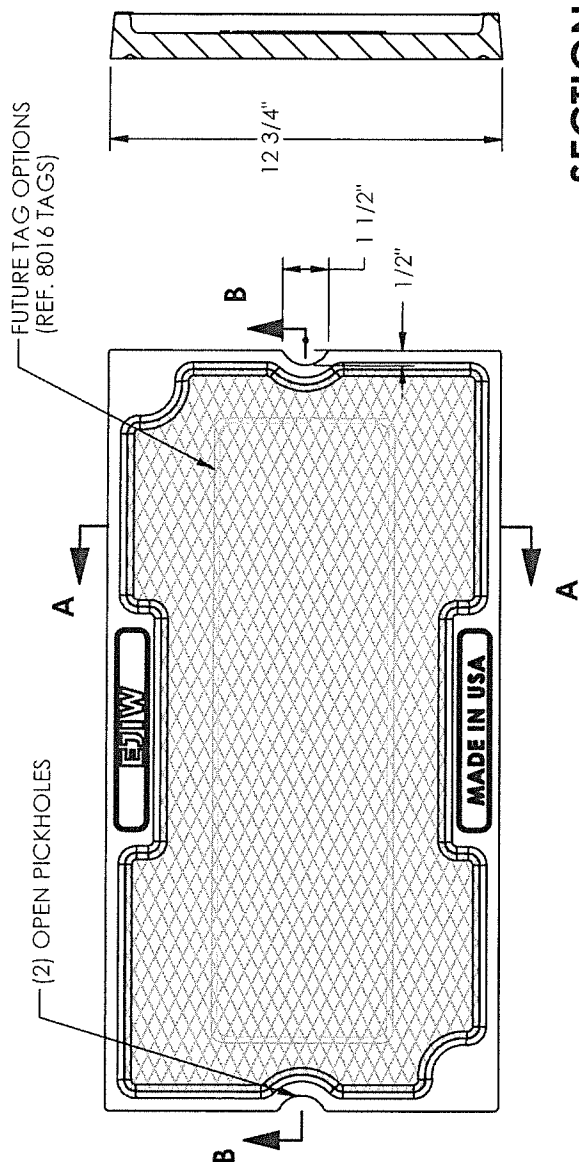
LOAD RATING
HEAVY DUTY

COATING
UNDIPPED

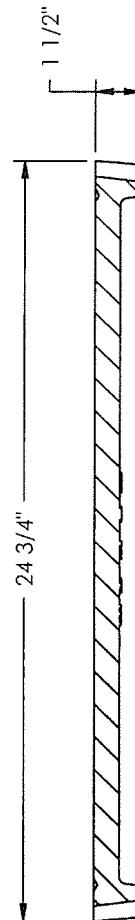
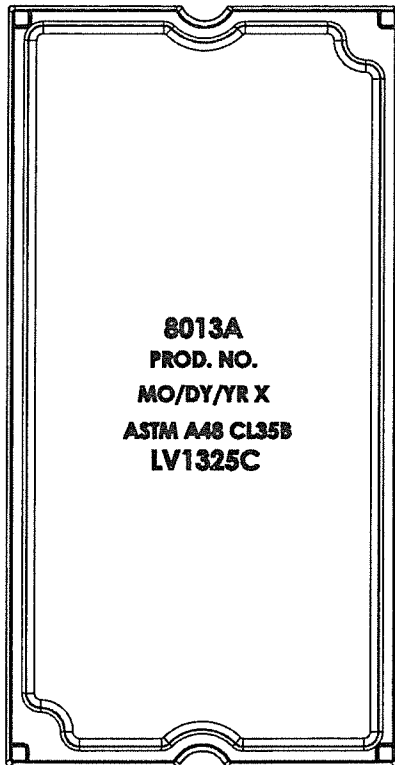
SPECIFICATION
COVER - GRAY IRON
ASTM A48 CL35B

OPEN AREA
N/A

✓ DESIGNATES MACHINED SURFACE	
DRAWN SBB	DATE 05/28/08
LAST REVISED SBB	DATE 04/13/09



SECTION A-A



SECTION B-B

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ASSEMBLY SUBMITTAL SPEC SHEET

JOB NAME: City of Worcester - Lincoln Square Memorial Worcester, MA
JOB LOCATION:
QUOTE NUMBER:
SUBMITTAL TYPE:

CONTENTS

Type	Description
	WFCL3 P20 40K MVOLT FC5 BK SK AO NYA 16 SL5 17D C03 BK ABG RP186A FGIUL BK ASSY27560

NOTES

**Job Name:**

City of Worcester - Sever St Park

Job Location:

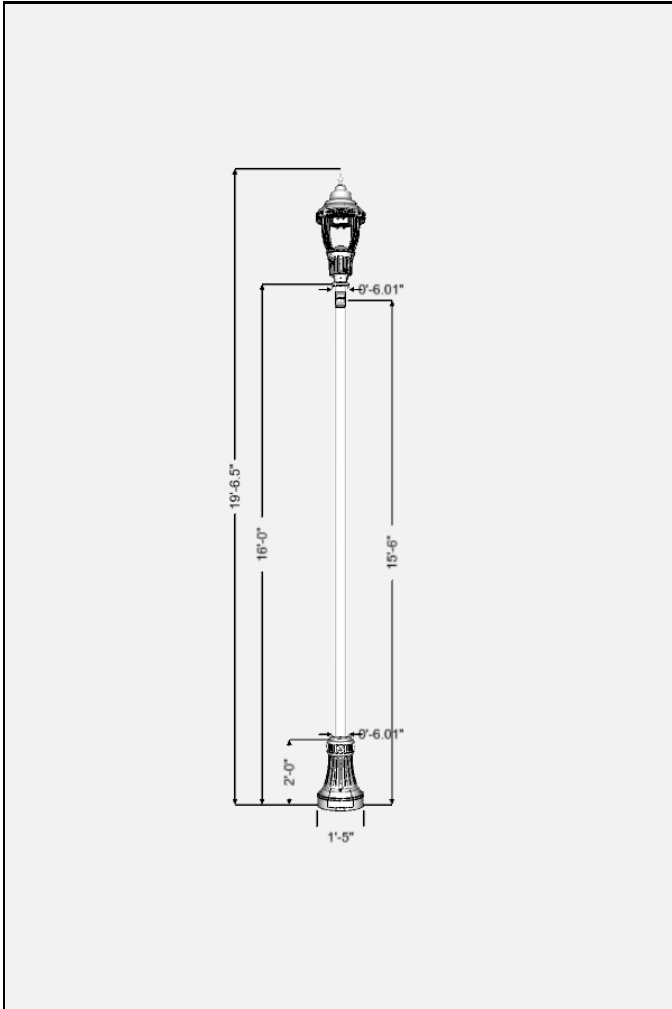
Worcester, MA

Quote No:**Type:****Catalog Number:**

WFCL3 P20 40K MVOLT FC5 BK SK AO NYA 16 SL5 17D C03 BK ABG RP186A FGIUL BK ASSY27560

0° View**90° View****Ordering Information****Luminaire****Catalog Number:** WFCL3 P20 40K MVOLT FC5 BK SK AO**Series:** (WFCL3) Utility Washington Postlite Full Cutoff LED 3**Performance Package:** (P20) P20 performance package**Color Temperature:** (40K) 4000K**Voltage:** (MVOLT) 120-277V**Optics:** (FC5) Full cutoff, type V**Finish:** (BK) Black**Finial/Trim:** (SK) Spike finial**Adjustable Output:** (AO) Field adjustable lumen output**Pole****Catalog Number:** NYA 16 SL5 17D C03 BK ABG RP186A**Series:** (NYA) North Yorkshire aluminum pole**Pole Height:** (16) 16FT**Shaft Style:** (SL5) Shaft, Sitelink 5.25IN fluted, .25 wall (L5J)**Base Diameter:** (17D) 17IN Base, Diamond Pattern Bolt Circle**Pole Top Mounting:** (C03) Tenon, 3.00 O.D. x 3IN tall**Finish:** (BK) Black**Base Mounting:** (ABG) Anchor bolt (galvanized steel)**Receptacle Provision Location A:** (RP186A) Duplex receptacle provision**Accessories****Catalog Number:** FGIUL BK**Weatherproof Receptacle:** (FGIUL) Receptacle with large, in-use wet location cover**Finish:** (BK) Black**Anchor bolt template****Catalog Number:** TMP40010**Anchor Bolt Template Number:** (TMP40010) TMP40010**Anchor Bolt****Catalog Number:** AB-31-4**Anchor Bolt:** (AB-31-4) AB-31-4

Assembly Drawing

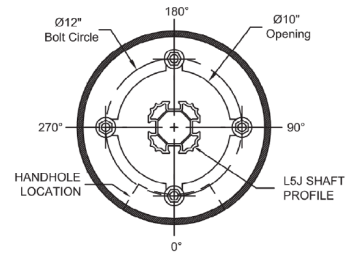


Description	Height/Width
Assembly Overall Height	19'-6.5"
Luminaire Mounting Height	16'-0"
Pole Height	16'-0"
FGIUL Height	15'-6"
Pole Shaft OD At Top	0'-6.01"
Pole Shaft OD At Bottom	0'-6.01"
Pole Base Height	2'-0"
Pole Base Width	1'-5"

Windload

Passed Wind Speed: 110 mph Equiv. Pole Top EPA : 1.72 sq ft
 Windload Result: 30% Current Loading Weight: 46.1 lbs
 Evaluated per: AASHTO 2013 Addtl Equiv. Pole Top EPA: 16 sq ft
 Addtl Loading Capacity: 400 lbs

Anchorage/Orientation Plan



Note: Door = Hand Hole

Ordering Information

Qty	Catalog Number
1	WFCL3 P20 40K MVOLT FC5 BK SK AO
1	NYA 16 SL5 17D C03 BK RP186A
1	TMP40010
1	AB-31-4
1	FGIUL BK

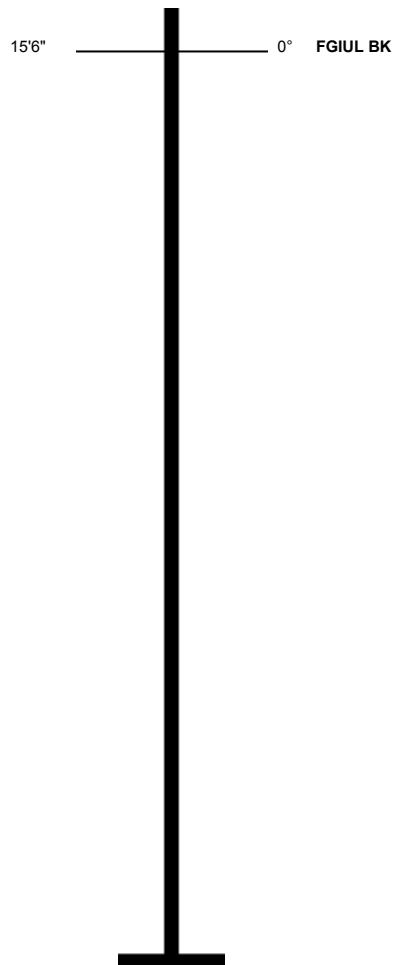
Customer Approval Signature:

Date:

Orientation Drawing

Anchorage/Orientation Plan

Pole	Pole Height
NYA 16 SL5 17D C03 BK ABG RP186A	16'-0"



Note: Door = Hand Hole

The hand hole is located at zero (0) degrees. Height from the bottom of base / anchor plate.

Accessory	Orientation	Height
FGIUL BK	0	186

Customer Approval Signature:

Date:



Submittal Spec Sheet

Dynamically Generated

Series: WFCL3

WFCL3 Lantern

Washington LED Post-Top Full Cutoff Lantern



Product Submittal Description:

Utility Washington Postlite Full Cutoff LED 3, P20 performance package, 4000K, 120-277V, Full cutoff, type V, Black, Spike finial, Field adjustable lumen output



The product images shown are for illustration purposes only and may not be an exact representation of the product.

[↓ IES Files](#)

[↓ BIM Models](#)

[↓ Full Spec Sheet](#)

Product Webpage: www.acuitybrands.com/products/detail/1815270

Warranty: www.acuitybrands.com/support/warranty/terms-and-conditions

Model #: **WFCL3 P20 40K MVOLT FC5 BK SK AO** ✓

Series*		Performance Package*				Color Temperature*	
WFCL3	Utility Washington Postlite Full Cutoff LED 3	P05	P05 LED performance package	P80	P80 performance package	27K	2700K
		P10	P10 performance package	P90	P90 Performance package	30K	3000K
		P100	P100 Performance package			40K	4000K
		P20	P20 performance package				
		P30	P30 performance package				
		P40	P40 performance package				
		P50	P50 performance package				
		P60	P60 performance package				
		P70	P70 performance package				
Voltage*		Optics*		Finish*			
HVOLT	347-480V	FC2	Full cutoff, type II	BK	Black	XX	Standard finish, TBD
MVOLT	120-277V	FC3	Full cutoff, type III	BZ	Bronze		
XVOLT	277-480V with enhanced power quality protection	FC4	Full cutoff, type IV	CMC	Custom matched color		
		FC5	Full cutoff, type V	GH	Graphite		
				GN	Green		
				GR	Gray		
				PP	Prime paint		
				RAL	RAL color		
				WH	White		
Finial/Trim		Reveal Plate Finish		Glass Option		Photocontrol Receptacle	
BL	Ball finial, painted cast aluminum	MHC	Paint Cosmetic Reveal Plate to match Housing Color	CLGL	Clear tempered glass lens	DINBRA	DTL DIN node bracket with external mounted antenna, DTL DIN node ordered and shipped separately
NF	No finial			FRGL	10% Frosted tempered glass lens	PR7	7 pin NEMA dimmable photocontrol receptacle
SK	Spike finial					PR7E	7 pin NEMA dimmable photocontrol external receptacle





Submittal Spec Sheet

Dynamically Generated
Series: WFCL3

Adjustable Output		Photocontrols		Prewire Leads		Shielding (factory installed)	
AO	Field adjustable lumen output	P34	Solid state long life photocontrol (347V)	L03	3ft prewire leads	HSS	House side shield
				L10	10ft prewire leads		
		P48	Solid state long life photocontrol (480V)	L1H	1.5ft prewire leads		
		PCLL	DTL photocontrol	L20	20ft prewire leads		
		SH	Shorting cap	L25	25ft prewire leads		
				L30	30ft prewire leads		
Label		House Side Shield Accessory (field installed)					
NL1X1	1IN x 1IN NEMA label						
NL2X2	2IN x 2IN NEMA label						
		CLHSSGL25	No glass, Type 2 & Type 5 - Louvered house side shield				
		CLHSSGL34	No glass, Type 3 & Type 4 - Louvered house side shield				
		CLHSSNG25	Glass, Type 2 & Type 5 - Louvered house side shield				
		CLHSSNG34	Glass, Type 3 & Type 4 - Louvered house side shield				

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Not all versions of the product are available with all options.

Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

See the full specification sheet at the product page link above for full product information and detailed ordering information.

Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.

Visit: <http://www.acuitybrandslighting.com/library/ll/documents/specsheets/acrylic-polycarbonate-compatibility.pdf> for Acrylic-Polycarbonate Compatibility table for suitable uses.

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Submittal Spec Sheet

Dynamically Generated
Series: NYA

Base Mounting*		Receptacle	Grounding
ABG	Anchor bolt (galvanized steel)	FGB	GRD
DBB	Direct burial base, galvanized steel		
LAB	Less anchor bolt		
		Receptacle in base with wet location cover	1/2 copper grounding lug

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Submittal Spec Sheet

Dynamically Generated

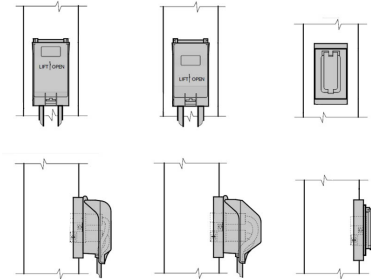
Series: FGIUL

FGIUL Electrical Receptacle

Receptacle with large, In-Use Wet Location Cover (FGIUL)

Product Submittal Description:

Receptacle with large, in-use wet location cover, Black



The product images shown are for illustration purposes only and may not be an exact representation of the product.

[↓ IES Files](#)

[↓ BIM Models](#)

[↓ Full Spec Sheet](#)

Warranty: www.acuitybrands.com/support/warranty/terms-and-conditions

Model #: **FGIUL BK** ✓

Weatherproof Receptacle*		Finish*			
FGIUL	Receptacle with large, in-use wet location cover	BK	Black	PP	Prime painted
		BZ	Bronze	SL	Silver
		CMC	Customer matched color	WH	White
		CTBS	Standard color to be determined		
		DB	Dark blue		
		DG	Dark green		
		GH	Graphite		
		GN	Green		
		GR	Gray		

This is a dynamic specification sheet that is based on certain selections made by the user. All results generated are for informational purposes only. The user should validate the results with its agency sales representative to determine whether the product has been configured correctly before ordering. Acuity Brands Lighting is not responsible for any loss resulting from product configuration errors.

Not all versions of the product are available with all options.

Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

See the full specification sheet at the product page link above for full product information and detailed ordering information.

Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.

Visit: <http://www.acuitybrandslighting.com/library/ll/documents/specsheets/acrylic-polycarbonate-compatibility.pdf> for Acrylic-Polycarbonate Compatibility table for suitable uses.

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Created Date: 2/20/2024 9:46 AM

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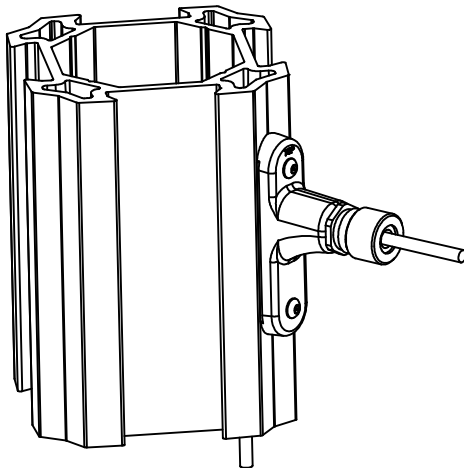
AFTER INSTALLATION DELIVER THIS MANUAL TO OWNER

IMPORTANT SAFETY INSTRUCTIONS

WARNING – READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL OR MAINTAIN THIS FIXTURE. WORK MUST BE DONE BY QUALIFIED PERSONNEL.

WARNING – BE CERTAIN THAT ALL ELECTRICAL POWER IS DISCONNECTED FROM THE FIXTURE BEFORE INSTALLING OR MAINTAINING THE FIXTURE.

FAILURE TO FOLLOW THESE WARNINGS MAY RESULT IN DEATH, INJURY OR SIGNIFICANT PROPERTY DAMAGE.



GR40079

1 INTRODUCTION

1.1 Product Description.

- Electrical exit casting to allow wiring into interior channels of pole.
- Provide wire exit from auxiliary channel (3" radius on cord up to .27" diameter).

1.2 Alternate Information Sources.

Holophane
Field Service Department
P.O. Box 3004
Newark, OH 43058-3004
(866) 759-1577

2 INSTALLATION

2.1 Tools and Materials Required.

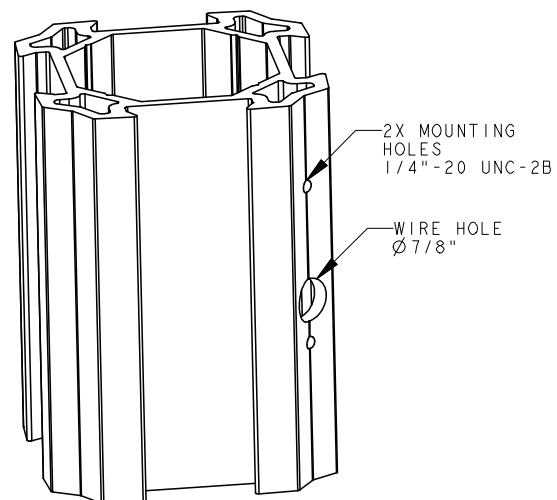
TABLE 1. Installation Tools and Materials	
DESCRIPTION	USE
5/32" Hex security driver	Mounting screws
8" Crescent wrench	Cord Grip
Fish tape	Running wire
Deburring tool	Deburr
#7 Drill bit	Mounting holes
1/4"-20 Tap	Mounting holes
7/8" Drill bit	Wire hole

2.2 Arm Assembly Installation

2.2.1 Make a copy of the template in figure 5. Measure the dimensions shown in figure 5. Verify the template is to scale and cut it out. Fold slightly along dotted line in center of template, for easier positioning in corner. If dimensions are not accurate, use dimensions as a guide to manually locate hole positions.

2.2.2 Position template so that the large hole is where you want the wire to exit/enter the pole. Mark the location of the two mounting holes, drill and tap to 1/4"-20 UNC-2B, see figure 1. Mark and drill the wire hole to 7/8" diameter. Deburr both inside and outside of the wire hole.

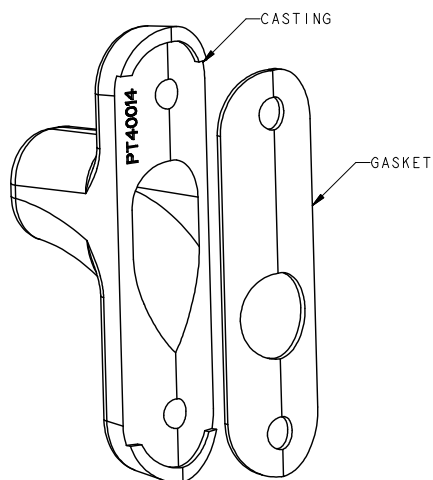
Figure 1



GR40080

2.2.3 Remove the backing from the gasket and attach it to the backside of the casting (side marked with "PT40014"), see figure 2. Be sure to align the mounting holes and the center hole should be down.

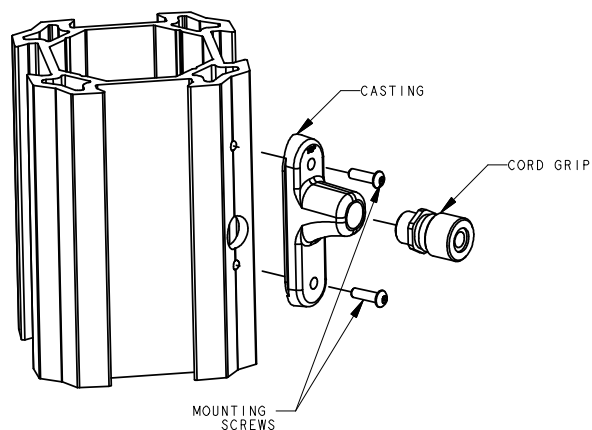
Figure 2



GR40081

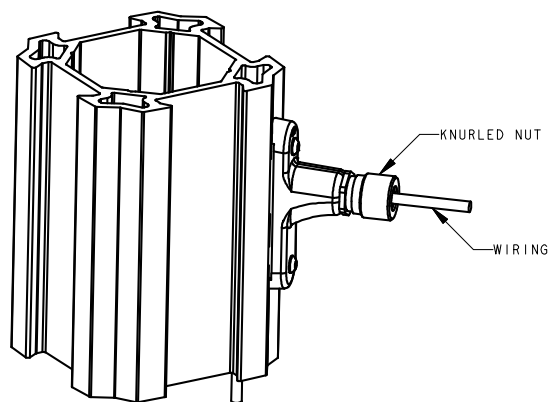
2.2.4 Align the casting to the pole with the top facing up. Attach the casting to the pole with the two mounting screws, see figure 3. Tighten both screws until the back of the casting contacts the pole. This will provide the appropriate gasket compression.

Figure 3



GR40082

Figure 4

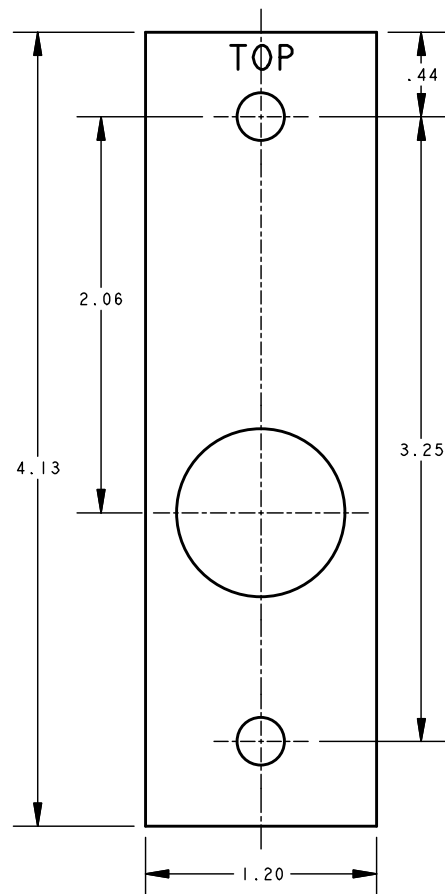


GR40083

2.2.5 The threaded end of the cord grip installs into the threaded hole in the casting, see figure 3. It can be tightened using the crescent wrench.

2.2.6 Loosen the knurled nut on the end of the cord grip, see figure 4. Pull cable through cord grip and tighten knurled nut.

Figure 5



GR40084



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