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IMPORTANT!!!

PLEASE TAKE THE TIME TO FILL OUT THIS FORM COMPLETELY. FILE IT IN A SAFE PLACE. IN THE EVENT YOU EXPERIENCE PROBLEMS WITH OR HAVE QUESTIONS CONCERNING YOUR CONTROLLER, THE FOLLOWING INFORMATION IS NECESSARY TO OBTAIN PROPER SERVICE AND PARTS.

MODEL #	AA0M-TSSLED	
SERIAL #		
PURCHASE DATE		

PURCHASED FROM _____

TWR Lighting," Inc. WARK

Enlightened Technology®

AA0M-TSSLED CONTROLLER

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RETURN MERCHANDISE AUTHORIZATION (RMA) FORM

TWR Lighting, Inc. WARK Enlightened Technology®

AA0M-TSSLED CONTROLLER

APPENDIX

CHASSIS COMPONENT LAYOUT1206-R (REV F)
SCHEMATIC LAYOUT1206-S (REV F)
TROUBLESHOOTING FLOW CHART1206-F
PHOTOCELL HOUSING DETAIL
CURRENT MEASUREMENT RELAY 101088 (REV B)
TOWER LIGHTING KIT CONDUIT RUN 21' TO 100'T1438 (REV A)
TOWER LIGHTING KIT CONDUIT RUN 101' TO 150'
OL1VLED2 (L810 SINGLE OBSTRUCTION LIGHT) 100656 (REV E)
OL2VLED2 (L810 DOUBLE OBSTRUCTION LIGHT) 100658 (REV F)
WRAPLOCK FASTENING DETAIL 100984



1.0 GENERAL INFORMATION

The TWR Lighting[®], Inc. Model AA0M-TSSLED Controller is for applications of two (2) through nine (9) L-810 single LED obstruction light fixtures.

The LED obstruction lights burn steady.

A by-pass switch (SW1) allows the controller to be turned on during daylight hours without covering the photocell. This is particularly helpful since the controller can be mounted indoors while the photocell is outdoors. SW1 can be operated by turning "on" the toggle switch, which is mounted on the panel of the controller.

The photocell is the three (3) blade, twist to lock, type.

Power supplied to the controller shall be 120V, 50/60 Hz.

The controller housing is rated at NEMA 4x. It is suitable for indoor or outdoor mounting.

Controller functions that are monitored by remote alarms in the form of dry contact closures (Form C) are as follows:

- **POWER FAILURE** Monitors 120V AC to the controller. Alarms in the event of power failure, or tripped circuit breaker.
- **LIGHTS "ON"** Gives an indication whenever the controller is activated.

LED OBSTRUCTION LIGHTS

Will give an alarm when one (1) of the group of LED sidelights fails.



2.0 INSTALLATION

2.1 MOUNTING THE CONTROL CABINET

(Refer to Drawing 1206-R)

The power supply control cabinet can be located at the base of the structure or in an equipment building. Mounting footprints are shown on drawing 1206-R. Power wiring to the control cabinet should be in accordance with local methods and National Electrical Codes (NEC).

- **2.1.1** If the control cabinet is mounted inside an equipment building, the photocell should be mounted vertically on ½" conduit outside the building above the eaves facing north. Wiring from the photocell socket to the control cabinet should consist of one (1) each, red, black, and white wires. The white wire is connected to the socket terminal marked "N," the black wire is connected to the socket terminal marked "Li," and the red wire is connected to the socket terminal marked "Lo." The photocell should be positioned so that it does not "see" ambient light, which would prevent it from switching to the nightmode.
- **2.1.2** If the control cabinet is mounted outside an equipment building, the photocell should be mounted vertically on ½" conduit so the photocell is above the control cabinet. Care must be taken to assure that the photocell does not "see" any ambient light that would prevent it from switching into the nightmode. The photocell wiring is the same as in 2.1.1.

The wiring from the photocell, the service breaker, and the sidelights should enter the control cabinet through the watertight connectors in the bottom of the cabinet. Inside the cabinet, the connections will be made on the terminal strips and circuit breaker located at the bottom of the chassis. These connections are made as follows:



- 2.2 <u>EXTERNAL PHOTOCELL WIRING</u> (Refer to Drawing 1206-R)
 - **2.2.1** Connect the **BLACK** wire from the photocell to terminal block TB2 marked "L."
 - **2.2.2** Connect the <u>**RED**</u> wire from the photocell to terminal block TB2 marked "SSR."
 - **2.2.3** Connect the <u>WHITE</u> wire from the photocell to terminal block TB2 marked "N."

2.3 POWER WIRING

(Refer to Drawing 1206-R)

- **2.3.1** Power wiring to the control cabinet should be in accordance with local methods and National Electrical Codes (NEC).
- **2.3.2** Circuit breaker needs to be rated at 10 amps.
- 2.3.3 Connect incoming 120V AC line to terminal block TB1 marked "L."
- **2.3.4** Connect the neutral wire(s) to one (1) of the terminal blocks on TB1 marked "N."
- **2.3.5** Connect the AC ground to the aluminum mounting plate.

2.4 SIDELIGHT WIRING

(Refer to Drawings 1206-R, T1438, or T1439)

- 2.4.1 Connect the <u>RED</u> from the sidelight group to the circuit breaker marked "S."
- **2.4.2** Connect the <u>WHITE</u> neutral wire(s) to the terminal block TB1 marked "N."



2.5 SIDELIGHT ALARM WIRING

(Refer to Drawings 1206-R and 1206-S)

- **2.5.1** Alarm relays K1, K2, and Module M1 are provided for independent contact closures for: Power Failure, Lights "ON," and LED Sidelight Burnout.
- 2.5.2 Alarm wiring: To utilize all of the red light alarms, the customer will need three (3) pair of wires to interface with the alarm device. One (1) wire from each of the three (3) pair will terminate at the points marked common (c). The remaining wire from each pair will terminate as follows:

LED Sidelight Burnout:	Connect to Module M1, terminal #24, for normally open (or) terminal #22, for normally closed monitoring.
Power Failure Alarm:	Connect to relay K1, terminal #3, for normally open (or) terminal #6, for normally closed monitoring.
Lights "ON" Alarm:	Connect to relay K2, terminal #3, for normally open (or) terminal #6, for normally closed monitoring.

2.5.3 Testing: To test alarms, follow the procedures using the "ohm" meter between alarm common and alarm points.

Power Failure	Pull circuit breaker at electrical panel.		
Lights "ON"	Operate photocell by-pass switch (SW1) or cover the photocell.		
LED Sidelights	Trip circuit breaker on the controller panel.		



3.0 THEORY OF OPERATION

3.1 POWER SUPPLY

120V AC enters the controller from the circuit breaker panel. Line sits at the 6390-FAA photocell waiting to be switched and also keeps the power failure relay K1 energized. When the 6390-FAA photocell is activated, line SSR energizes K2 "Lights On" relay. This can also be accomplished by using the photocell by-pass switch (SW1).

3.2 LED SIDELIGHTS

Line (SSR) is also being sent to Module M1, then to circuit breaker "S." Module M1 is the current sensor for all of the LED sidelights. If one (1) LED sidelight within the group burns out, Module M1 will detect it, which will cause a contact closure for LED sidelight alarm.



4.0 MAINTENANCE GUIDE

4.1 RED OBSTRUCTION LIGHTING

No scheduled maintenance is required. Perform on an "as needed" basis only.

TOOLS REQUIRED: NONE

4.2 L-810 LAMP REPLACEMENT

No scheduled maintenance is required. Perform on an "as needed" basis only.

4.3 <u>CONTROLLER</u>

No scheduled maintenance is required. Perform on an "as needed" basis only.

4.4 PHOTOCELL

The photocell is a sealed unit. No maintenance is needed or required other than replacement as necessary.

TWR Lighting, Inc. WARK Enlightened Technology®

AA0M-TSSLED CONTROLLER

5.0 MAJOR COMPONENTS PARTS LIST

QTY	PART NUMBER	DESCRIPTION	
1	6390-FAA (This replaces the 102FAA Photocell)	120 – 240V Photocell	
1	VJ1008HWPL1X004	Enclosure, NEMA 4x	
2	PB27E122	Octal Sockets (K1, K2)	
6	8WA1204	Terminal Blocks (TB1, TB2)	
1	S261D1	1 amp Circuit Breaker (S)	
2	8WA1808	End Stop	
1	KRPA5AG120V	SPDT Relay (K1 and K2)	
1	SSPIGTAIL	20' Photocell Pigtail	
1	STJ01002	15 amp SPDT Switch (SW1)	
1	RM22JA31MRSP01	Current Sensor (M1)	



6.0 RECOMMENDED SPARE PARTS LIST

QTY	PART NUMBER	DESCRIPTION
1	6390-FAA (This replaces the 102FAA Photocell)	120 – 240V Photocell
1	KRPA5AG120V	SPDT Relay (K1 and K2)



Warranty & Return Policy

TWR Lighting[®], **Inc. ("TWR[®]") warrants its products (other than "LED Product")** against defects in design, material (excluding incandescent bulbs) and workmanship for a period ending on the earlier of two (2) years from the date of shipment or one (1) year from the date of installation.

TWR Lighting[®], **Inc.** ("**TWR**[®]") **warrants its "LED Product**" against defects in design, material and workmanship for a period of five (5) years from the date of shipment. TWR[®], at its sole option, will, itself, or through others, repair, replace or refund the purchase price paid for "LED Product" that TWR[®] verifies as being inoperable due to original design, material, or workmanship. All warranty replacement "LED Product" is warranted only for the remainder of the original warranty of the "LED Product" replaced. Replacement "LED Product" will be equivalent in function, but not necessarily identical, to the replaced "LED Product."

TWR Lighting[®], **Inc. ("TWR[®]") warrants its "LED Product"** against light degradation for a period of five (5) years from the date of installation. TWR[®], at its sole option, will, itself, or through others, repair, replace, or refund the purchase price paid for "LED Product" that TWR[®] verifies as failing to meet 75% of the minimum intensity requirements as defined in the FAA Advisory Circular 150/5345-43G dated 09/26/12. All warranty replacement "LED Product" is warranted only for the remainder of the original warranty of the "LED Product" replaced. Replacement "LED Product" will be equivalent in function, but not necessarily identical, to the replaced "LED Product."

Replacement parts (other than "LED Product") are warranted for 90 days from the date of shipment.

Conditions not covered by this Warranty, or which might **void** this Warranty are as follows:

- x Improper Installation or Operation
- x Misuse
- x Abuse
- x Unauthorized or Improper Repair or Alteration
- x Accident or Negligence in Use, Storage, Transportation, or Handling
- x Any Acts of God or Nature
- x Non-OEM Parts

The use of Non-OEM parts or modifications to original equipment design will void the manufacturer warranty and could invalidate the assurance of complying with FAA requirements as published in Advisory Circular 150/5345-43.



Warranty & Return Policy

(continued)

Field Service – Labor, Travel, and Tower Climb are not covered under warranty. Customer shall be obligated to pay for all incurred charges. An extensive network of certified and insured Service Representatives is available if requested.

Repair, Replacement or Product Return RMA Terms – You must first contact our Customer Service Department at **713-973-6905** to acquire a Return Merchandise Authorization (RMA) number in order to return the product(s). Please have the following information available when requesting an RMA number:

- x The contact name and phone number of the tower owner or
- x The contact name and phone number of the contractor
- x The site name and number
- x The part number(s)
- x The serial number(s) (if any)
- x A description of the problem
- x The billing information
- x The Ship To address

This RMA number must be clearly visible on the outside of the box. If the RMA number is not clearly labeled on the outside of the box, your shipment will be refused. Please ensure the material you are returning is packaged carefully. The warranty is null and void if the product(s) are damaged in the return shipment.

All RMAs must be received by TWR LIGHTING[®], INC., 10810 W. LITTLE YORK RD. #130, HOUSTON, TX 77041-4051, within 30 days of issuance.

Upon full compliance with the Return Terms, TWR[®] will replace, repair and return, or credit product(s) returned by the customer. It is TWR[®]'s sole discretion to determine the disposition of the returned item(s).



Warranty & Return Policy

(continued)

<u>RMA Replacements</u> – Replacement part(s) will be shipped and billed to the customer for product(s) considered as Warranty, pending return of defective product(s). When available, a certified reconditioned part is shipped as warranty replacement with a Return Merchandise Authorization (RMA) number attached. Upon receipt of returned product(s), inspection, testing, and evaluation will be performed to determine the cause of defect. The customer is then notified of the determination of the testing.

- x Product(s) that is deemed defective and/or unrepairable and covered under warranty a credit will be issued to the customer's account.
- x Product(s) found to have no defect will be subject to a **\$75.00 per hour testing charge (1 hour minimum), which will be invoiced to the customer.** At this time the customer may decide to have the tested part(s) returned and is responsible for the return charges.
- x Product(s) under warranty, which the customer does not wish returned, the customer will be issued a credit against the replacement invoice.

<u>RMA Repair & Return</u> – A Return Merchandise Authorization (RMA) will be issued for all part(s) returned to TWR[®] for repair. Upon receipt of returned product(s), inspection, testing, and evaluation will be performed to determine the cause of defect. The customer is then notified of the determination of the testing. If the returned part(s) is deemed unrepairable, or the returned part(s) is found to have no defect, the customer will be subject to a **\$75.00 per hour testing charge (1 hour minimum), which will be invoiced to the customer.** Should the returned parts be determined to be repairable, a written estimated cost of repair will be sent to the customer for their written approval prior to any work being performed. In order to have the tested part(s) repaired and/or returned, the customer must issue a purchase order and is responsible for the return shipping charges.

RMA Return to Stock – Any product order that is returned to TWR[®] for part(s) ordered incorrectly or found to be unneeded upon receipt by the customer, the customer may be required to pay a minimum **20% restocking fee**. Product returned for credit must be returned within 60-days of original purchase, be in new and resalable condition, and in original packaging. Once the product is received by TWR it's condition will be evaluated and a credit will be issued only once it is determined that the RMA Return Terms have been met.

<u>Credits</u> – Credits are issued once it is determined that all of the Warranty and Return Terms are met. All credits are processed on Fridays. In the event a Friday falls on a Holiday, the credit will be issued on the following Friday.



Warranty & Return Policy

(continued)

Freight – All warranty replacement part(s) will be shipped via ground delivery and paid for by TWR[®]. Delivery other than ground is the responsibility of the customer.

REMEDIES UNDER THIS WARRANTY ARE LIMITED TO PROVISIONS OF REPLACEMENT PARTS AND REPAIRS AS SPECIFICALLY PROVIDED. IN NO EVENT SHALL TWR® BE LIABLE FOR ANY OTHER LOSSES, DAMAGES, COSTS, OR EXPENSES INCURRED BY THE CUSTOMER, INCLUDING, BUT NOT LIMITED TO, LOSS FROM FAILURE OF THE PRODUCT(S) TO OPERATE FOR ANY TIME, AND ALL OTHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING ALL PERSONAL INJURY OR PROPERTY DAMAGE DUE TO ALLEGED NEGLIGENCE, OR ANY OTHER LEGAL THEORY WHATSOEVER. THIS WARRANTY IS MADE BY TWR® EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED. WITHOUT LIMITING THE **TWR[®]** MAKES THE FORGOING. NO WARRANTY GENERALITY OF OF MERCHANTABILITY OR FITNESS OF THE PRODUCT(S) FOR ANY PARTICULAR PURPOSE. TWR® EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES.



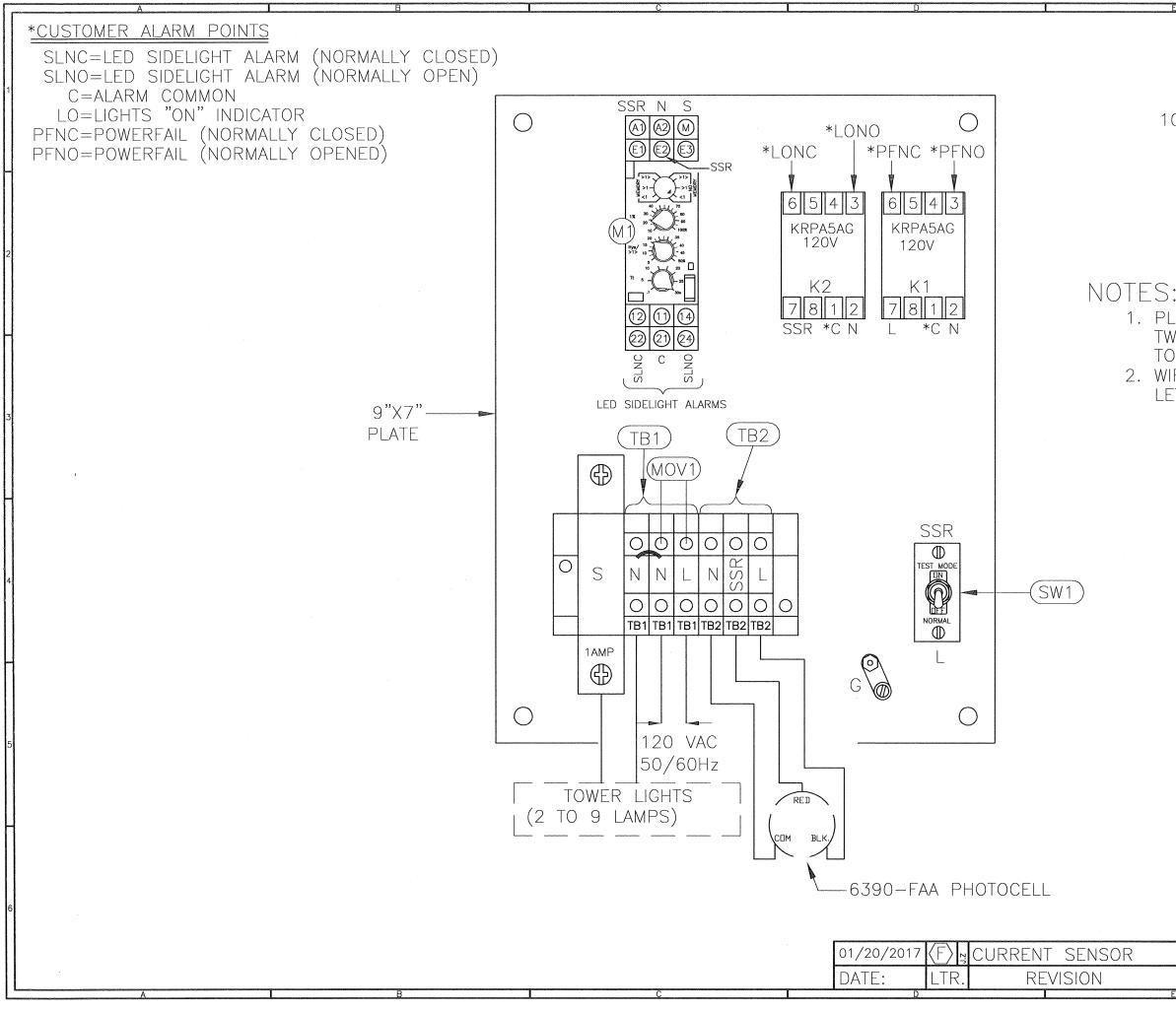
RETURN MATERIAL AUTHORIZATION (RMA) FORM

RMA#:	DATE:
CUSTOMER:	
	_PHONE NO.:
ITEM DESCRIPTION (PART NO.):
	_SERIAL NO.:
ORIGINAL TWR INVOICE NO .:_	DATED:
DESCRIPTION OF PROBLEM:	
	DATE NEEDED
RETURN ADDRESS: PLEASE RETURN PRODUCT TO: 10810 V	N. LITTLE YORK RD. #130 HOUSTON, TX 77041-4051

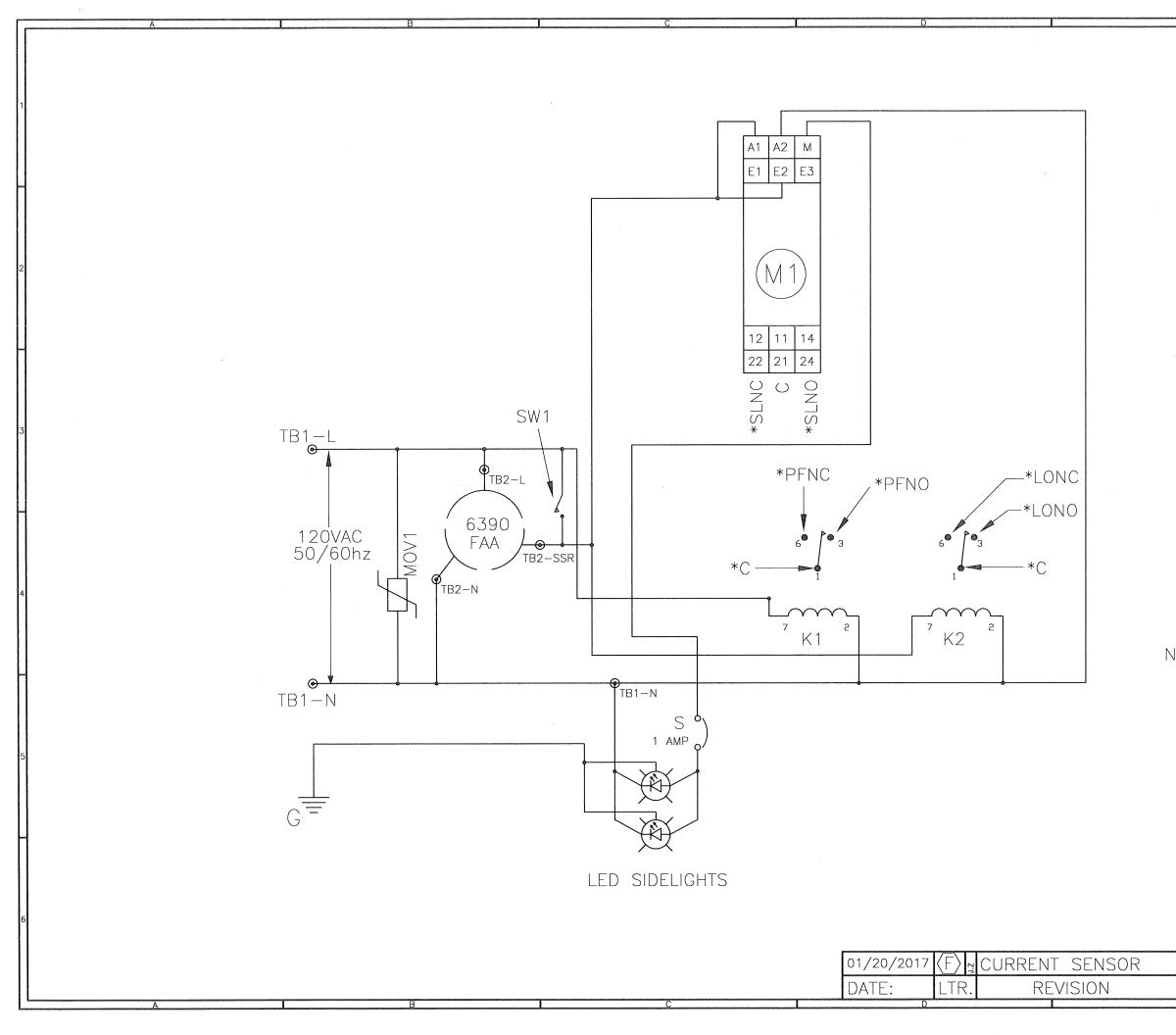


RETURN MATERIAL AUTHORIZATION (RMA) FORM

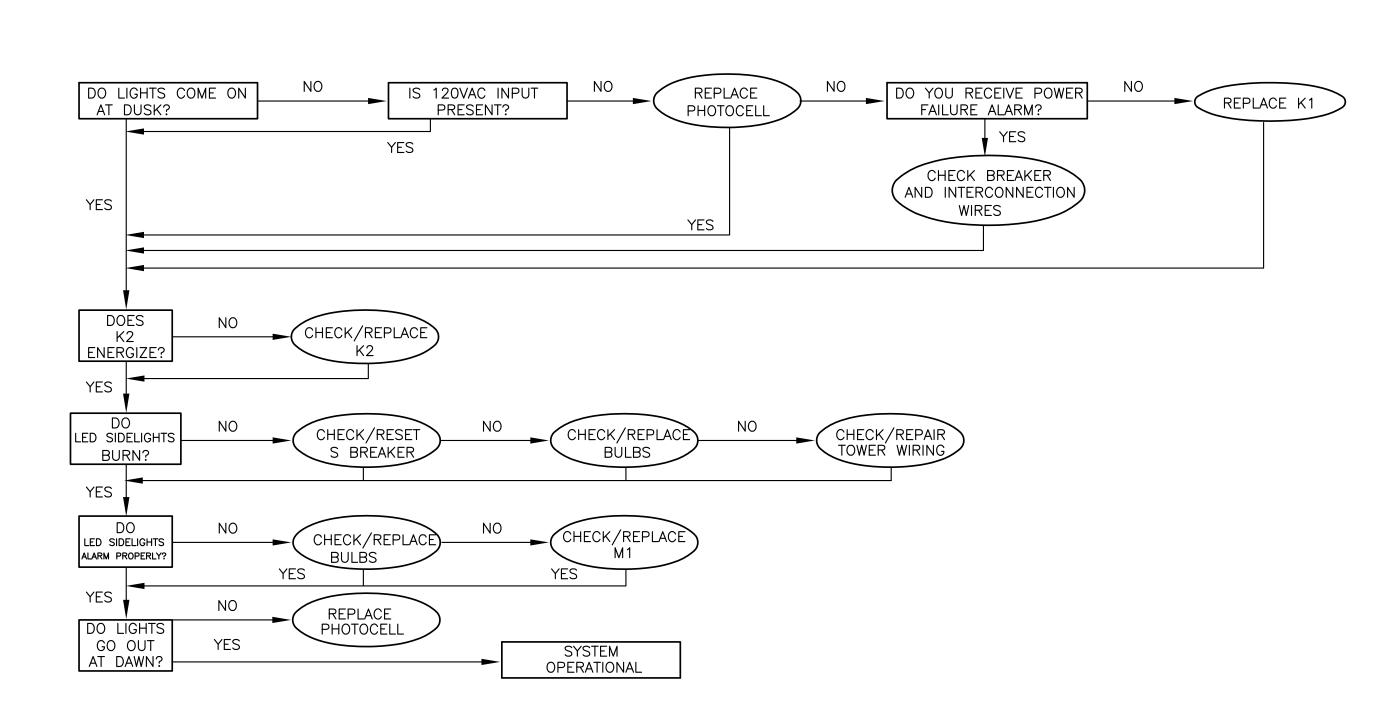
RMA#:	DATE:
CUSTOMER:	
	_PHONE NO.:
ITEM DESCRIPTION (PART NO.):
	_SERIAL NO.:
ORIGINAL TWR INVOICE NO .:_	DATED:
DESCRIPTION OF PROBLEM:	
	DATE NEEDED
RETURN ADDRESS: PLEASE RETURN PRODUCT TO: 10810 V	N. LITTLE YORK RD. #130 HOUSTON, TX 77041-4051



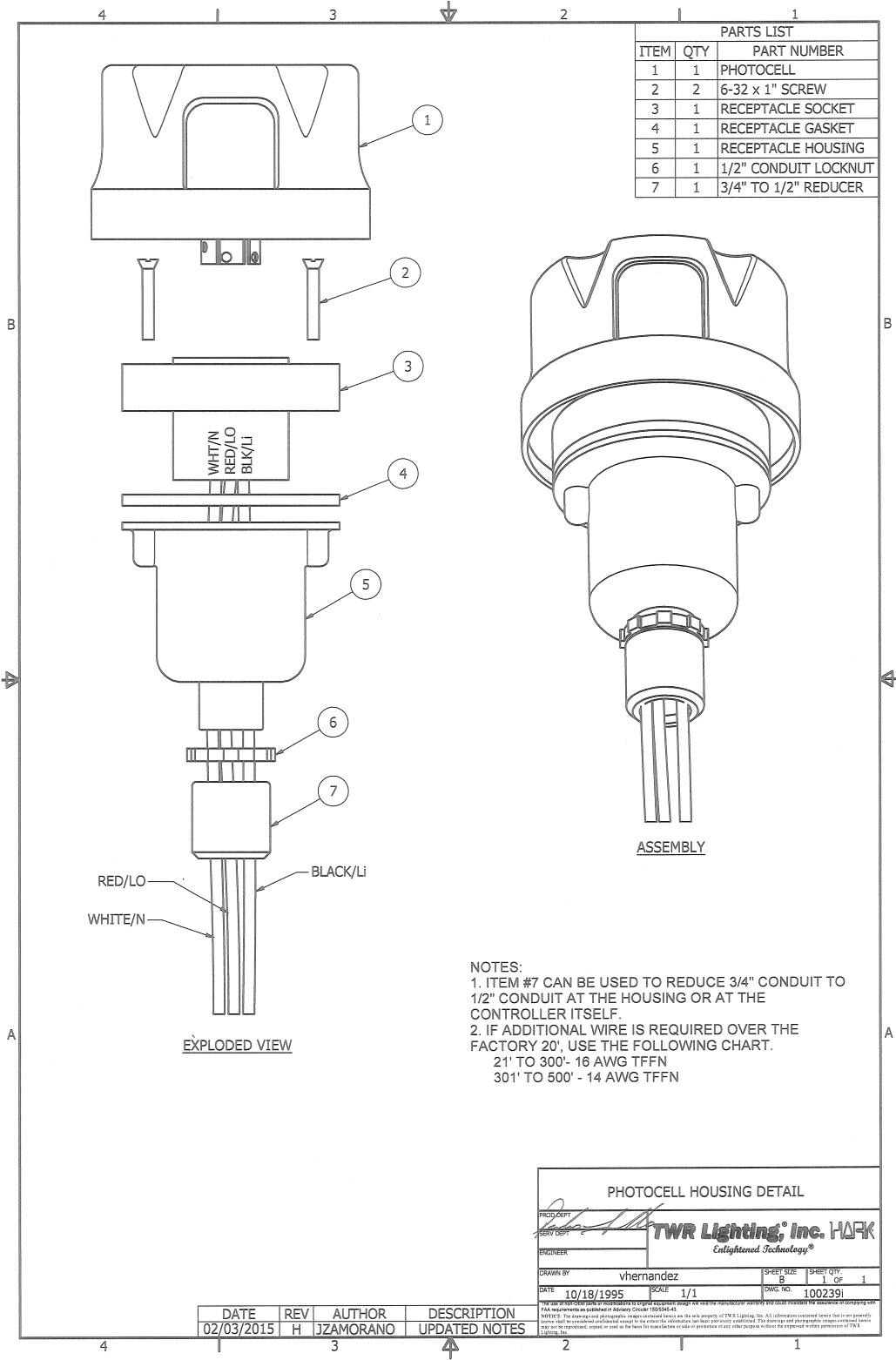
D-3/4"	
• 5/16" HOLES	
HIGH 6"	2
UG 6390-FAA PHOTOCELL INTO 43109 IST LOCK RECEPTACLE AND TWIST LOCK.	-
RES ARE CONNECTED LETTER TO TTER. (EXAMPLE) N TO N	3
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AAOM-TSSLED CONTROLLER CONTROLLER CHASSIS LAYOUT	
SERV DEPT TWR Lighting, Inc. WARK ENCINEER Enlightened 3 echnology Inc. WARK DRAWN BY SHEET SIZE SHEET QTY. DATE 10/15/04 SCALE N.T.S. DWG. NO. 1206- The use of non-OEM parks or modifications to original equipment design will void the manufacturer varianty and could invalidate the assurance of complying SCALE N.T.S. DWG. NO. 1206-	6 1 -R
The use of non-OEM parts or modifications to original equipment design will void the manufacturer varranty and could invalidate the assurance of complying the second seco	rally



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	TWR Li		
ENGINEER		Enlightened Tech	SHEET QTY.
551001 51/		SHEET SIZE	SHEEL ULY
drawn by R.N.MORENO date 10/15/04	scale N.T.S.	B DWG. NO.	1 OF 1 1206-S



TROUBLESHOOTING FLOW CHART			
AAOM-TSSLED DWR. #1206-R			
PROD DEPT			
SERV DEPT	TWR Ligh	ting	<i>§, Inc.</i> ∣
ENGINEER	Enlight	tened Tec	hnology
drawn by R.N.MORENO		SHEET SIZE B	SHEET QTY. 1 OF 1
date 10/15/2004		DWG. NO.	1206-F
invalidate the assurance of complying on NOTICE: The drawings and photographic images con known shall be considered confidential except to the e	tions to original equipment design will volu- with FAA requirements as published in Advi- tational herein arc the sole property of TWR Lighting, Inc. xtent the information has been previously established. The manufacture or sale or promotion or any other purpose we	sory Circular 150 All information contai drawings and photogr	0/5345-43. ined herein that is not generally aphic images contained herein
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AC UNITS CURRENT MEASUREMENT RM22JA31MRSP01

CONTROL VOLTAGE INPUT-

120VAC PRODUCT SPECIFIC SETTINGS								
QTY.	PART NO.	INPUT	#1	#2	#3	#4	# 5	
1	OL1_LED2	E2	*<1	30	20	30	OFF	
2	OL1_LED2	E2	*<1	50	20	30	OFF	
3	OL1_LED2	E3	*<1	15	20	30	OFF	
4	OL1_LED2	E3	*<1	25	20	30	OFF	
6	OL1_LED2	E3	*<1	35	20	30	OFF	
8	OL1_LED2	E3	*<1	45	15	30	OFF	
10	OL1_LED2	E3	*<1	60	10	30	OFF	
1	LEDBEACON2	E3	*<1	20	20	30	OFF	
1	LEDBEACON2A	E3	*<1	15	20	30	OFF	
1	LEDBEACON2(T)	E3	*<1	25	20	30	OFF	
1	STLDBEACON2	E3	*<1	20	20	30	OFF	
1	STLDBEACON2A	E3	*<1	15	20	30	OFF	
2	STLDBEACON2A	E3	*<1	25	20	30	OFF	
2	STLDBEACON2A	E3	*<1	25	20	30	OFF	

*NO MEMORY

FUNCTIONS

1) Configuration: Selection of operation mode

(<1 / >1 / >1 <) with or without memory.

2) Adjustment of current threshold as % of setting range.

3) Hysteresis adjustment from 5% to 50%.

4) Time Delay adjustment from 0.1 to 30sec.

5) Diagnostic button.

6) Yellow indicator light (See conditions below)

7) Dial Pointer (Green) LED

- Steady green LED indicates that supply to the RM22 is present
- Flashing green LED indicates a setting has been changed that requires a power cycle.

YELLOW LED CONDITIONS

NOTE: () ASTERISK INDICATES LED CONDITIONS OPERATE OPPOSITE FROM RM22JA31MR MODULE

Steady Burn Fixtures

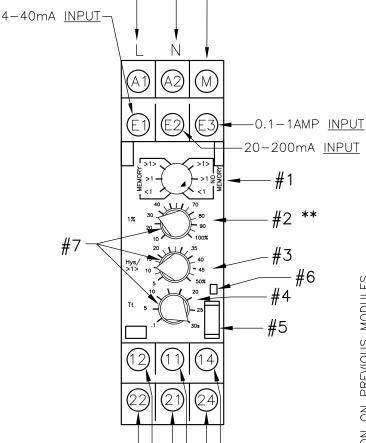
- Yellow light *off : Normal condition (no alarm)
- Yellow light flashing : Undercurrent condition detected and time delay initiated
- Yellow light *on : Alarm condition

Flashing Fixtures

- Yellow light flashing inconsistent : Normal condition (no alarm)
- Yellow light flashing consistent : Under current condition detected and time delay initiated

NOTE : To help troubleshoot or to set the sense current, turn the time delay to 0_{sec}. Adjusting the current setting should only be done if it is known that all the lights are functioning. For Steady Burn adjust the current until the yellow LED comes *off, and the relay is not dropping in and out. For Flashing Fixtures adjust the current setting until the yellow light starts to flash. This is the normal condition setting. Return the time delay back to 30_{sec}.

• Yellow light *on : Alarm condition

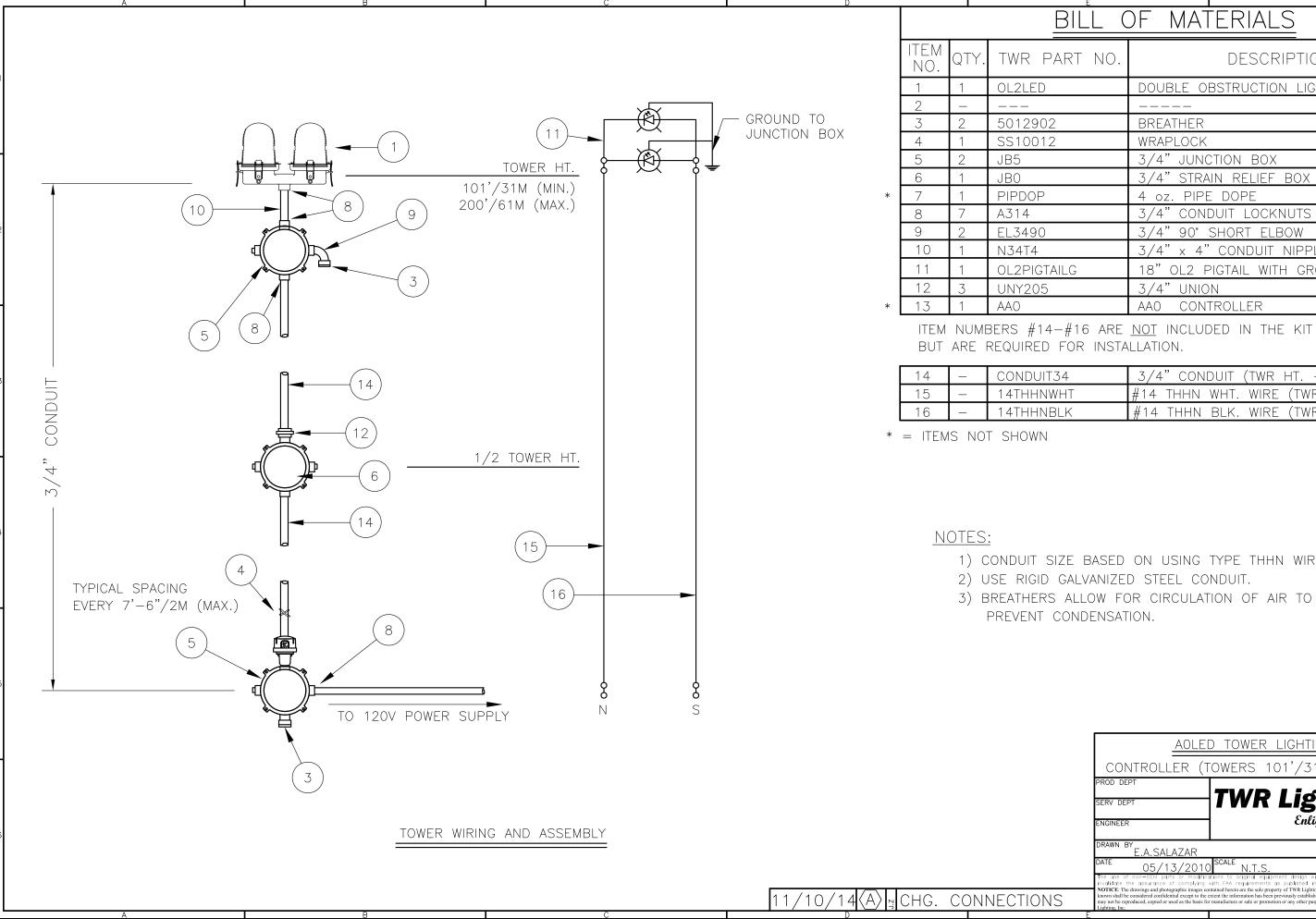


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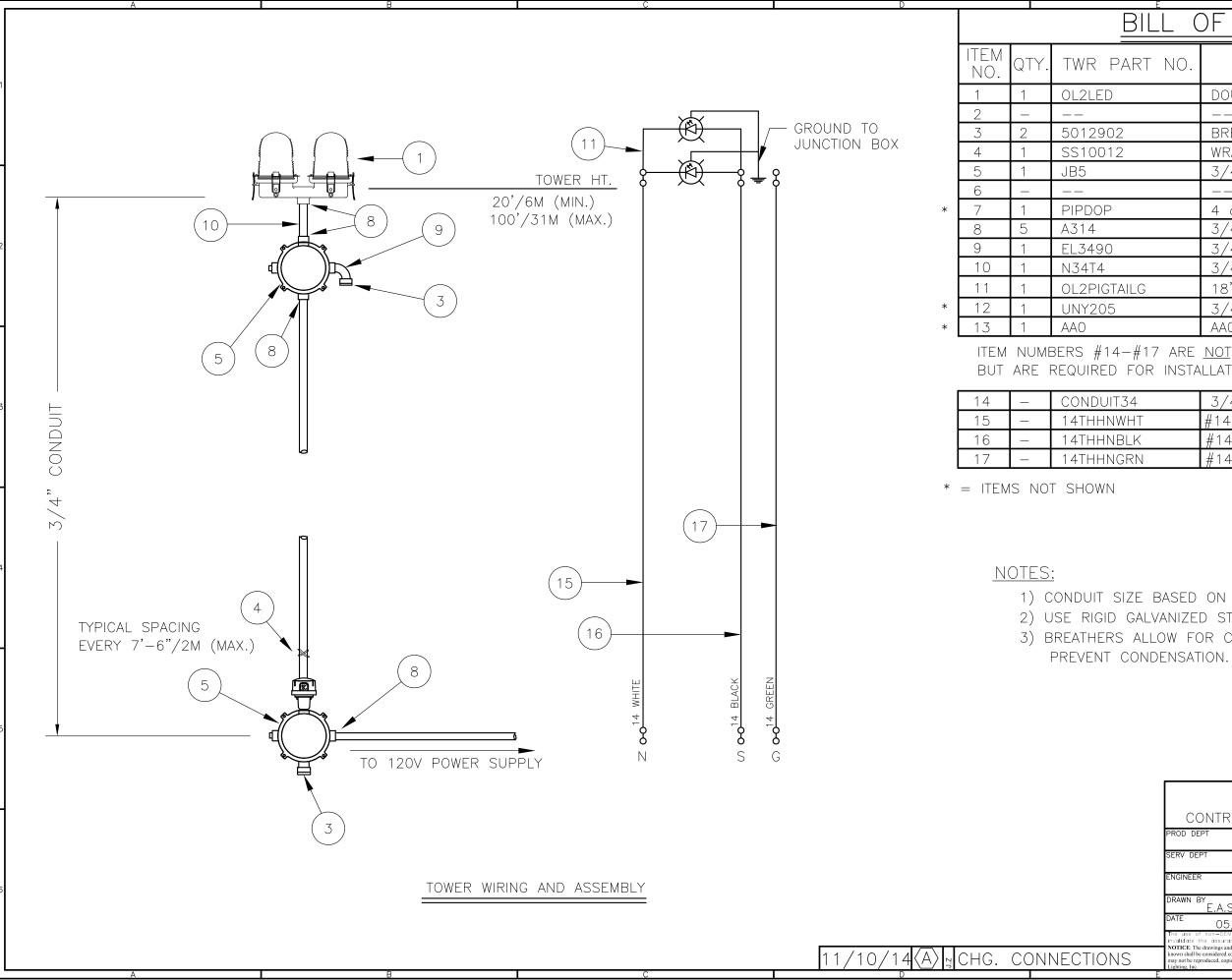
NC

OUTPUT TO LOAD



	<u>DF MATERIALS</u>	
F NO.	DESCRIPTION	
	DOUBLE OBSTRUCTION LIGHT LED	
	BREATHER	┥
	WRAPLOCK	1
	3/4" JUNCTION BOX 3/4" STRAIN RELIEF BOX	┦
	4 oz. PIPE DOPE	-
	3/4" CONDUIT LOCKNUTS	
	3/4"90° SHORT ELBOW 3/4" × 4" Conduit Nipple	-
	18" OL2 PIGTAIL WITH GROUND	1
	3/4" UNION	
	AAO CONTROLLER	┦
	<u>NOT</u> INCLUDED IN THE KIT ALLATION.	
	3/4" CONDUIT (TWR HT. + 30'/9M)	4
	#14 THHN WHT. WIRE (TWR HT.+40'/12M)	-3
	#14 THHN BLK. WIRE (TWR HT.+40'/12M)	
		ł
		4
BASED	ON USING TYPE THHN WIRE.	

AOI FI) TOWER	LIGHTING	KIT	
CONTROLLER (T			TO 20)0'/61M)
PROD DEPT SERV DEPT	TWR	Englight		5, Inc.
ENGINEER DRAWN BY E.A.SALAZAR	SCALE	5 	BHEET SIZE	sheet qty. 1 OF 1
DATE 05/13/2010 The use of non-OEM parts or modific invalidate the assurance of complying NOTICE: The drawings and photographic images co known shall be considered confidential except to the c may not be roproduced, copied or used as the basis for Litehting, Inc.	ations to original ea with FAA requirement ntained herein are the sole extent the information has b	uipment design will void its as published in Adviso property of TWR Lighting, Inc. Al icen previously established. The di	the manufactur ry Circular 150 I information contai rawings and photogr)/5345-43, ined herein that is not generally aphic images contained herein
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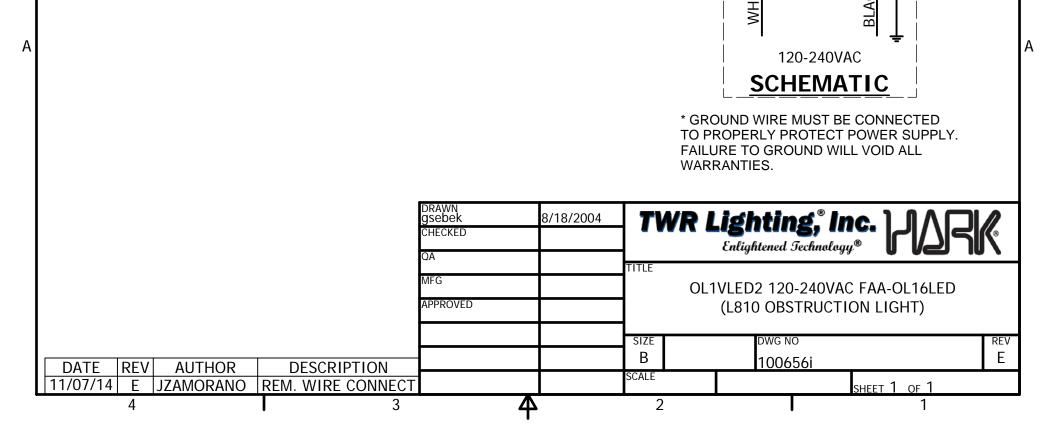


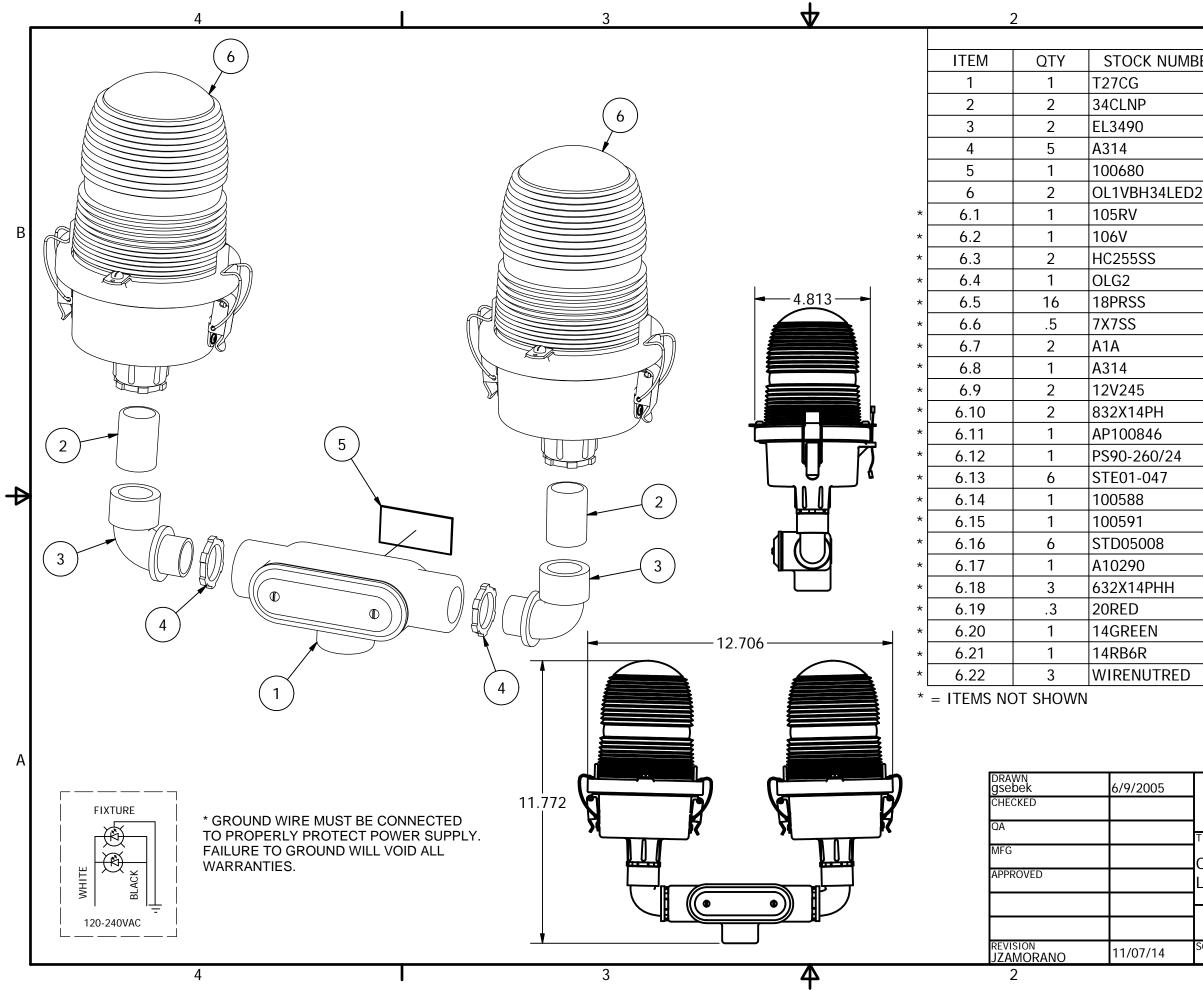
E	F	
LL (DF MATERIALS	
T NO.	DESCRIPTION	
	DOUBLE OBSTRUCTION LIGHT LED	1
	BREATHER	
	WRAPLOCK	
	3/4" JUNCTION BOX	╞
	4 oz. PIPE DOPE	
	3/4" CONDUIT LOCKNUTS	
	3/4"90° SHORT ELBOW 3/4"x 4" CONDUIT NIPPLE	2
	18" OL2 PIGTAIL WITH GROUND	
	3/4" UNION	
	AAO CONTROLLER	ł
	<u>NOT</u> INCLUDED IN THE KIT ALLATION.	
	3/4" CONDUIT (TWR HT. + 30'/9M)	
	#14 THHN WHT. WIRE (TWR HT.+40'/12M)	
	#14 THHN BLK. WIRE (TWR HT.+40'/12M) #14 THHN GREEN WIRE (TWR HT.+40'/12M)	
	$\frac{1}{2}$	
		Γ

1) CONDUIT SIZE BASED ON USING TYPE THHN WIRE. 2) USE RIGID GALVANIZED STEEL CONDUIT. 3) BREATHERS ALLOW FOR CIRCULATION OF AIR TO

AOLED TOWER LIGHTING KIT						
CONTROLLER ((TOWERS 20'/6M	TO 100	D'/31M)			
PROD DEPT						
SERV DEPT	TWR Ligh					
ENGINEER	Enligh	tened Tec	rhnology			
drawn by E.A.SALAZAR		SHEET SIZE B	SHEET QTY. 1 OF 1			
DATE 05/13/2010		DWG. NO.	T1439			
The use of non-OEM parts or modifications to original equipment design will void the magnificiturer warrardy and could invalidate the assurance of complying with FAA requirements as published in Advisory Circular 150/5345-43. NOTICE: The drawings and photographic images contained herein are the sole property of TWR Lighting. Inc. All information contained herein that is not generally known shall be considered confidential except to the extent the information has been previously established. The drawings and photographic images contained herein may not be reproduced, copied or used as the basis for manufacture or sale or promotion or any other purpose without the expressed written permission of TWR Lighting. Inc.						
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4	3	4			2	1	-
						Parts List	
			ITEM	QTY	PART NUMBER		
			1	1	OL1VLED2	L810 OBSTRUCTION LIGHT	
		*	1.1	1	100588_RE	OL 6LED BASE PLATE]
		*	1.2	1	100591	OL 6LED STAR DISK]
		*	1.3	1	100680	OL1/2 SERIAL # LABEL	1
		*	1.4	1	A10290	5/32" ID RUBBER GROMMET	1
		*	1.5		STD05008	LED EMITTER	1
		*	1.6	1	OLG	OL GASKET	1
		*	1.7	1	AP100846	SIDELIGHT LENS CLEAR ACYRLIC	
		*	1.8	1	106V	LENS HOLDER RING	
		*	1.9	6	STE01-047	LED VERTICAL PCB	1
		*	1.10		18PRSS	1/8 X .45 SS POP RIVET	1
	/ -	*	1.10		PS90-260/24	POWER SUPPLY	
	/	*	1.11	1 1	20RED	#20AWG RED BELDON WIRE	\mathbf{I}
				•			┨
		*	1.13	2	WIRENUTBLU	BLUE WIRE NUT	В
//		-	2	2	HC255SS		-
//			3	1	7X7SS	1/16 HOL 7X7 S.S. WIRE	
/ \	J N		4	2	12V245	OL LENS CLIP	
			5	1	105V	SINGLE SIDELIGHT BODY	
			6		832X14PH	8-32 X 1/4 PH SS SLOT SCREW	
			7	2	A1A	STAKON CRIMP	
			8	1	A314	3/4" CONDUIT LOCKNUT GALV.	
		_	* =	ITFM	S NOT SHOWN		
			$\begin{pmatrix} 7 \\ 6 \\ 3 \\ 4 \\ 5 \\ 8 \end{pmatrix}$			7.342 7.342 5.30 FIXTURE	
					WHITE		A





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I	Parts List	
BER	DESCRIPTION	
	T27 CONDULET W/COVER & GSKT	
	3/4" GALV CLOSE NIPPLE	
	3/4" 90 DEGREE SHORT ELBOW GALV	
	3/4" CONDUIT LOCKNUT GALV.	
	OL1/2 LED SERIAL # LABEL	
)2	FAA OL16LED 120/240VAC VALOX LED BH SL 3/4	
	VALOX SINGLE SIDELIGHT BODY	
	VALOX LENS HOLDER RING	В
	SIDELIGHT LATCH	
	OL1 6 LED GASKET	
	1/8 X .45 SS POP RIVET	
	1/16 HOL 7X7 S.S. WIRE	
	STAKON CRIMP	
	3/4" CONDUIT LOCKNUT GALV.	
	OL LENS CLIP	
	8-32 X 1/4" PH SS SLOT SCREW	
	SIDELIGHT LENS CLEAR ACYRLIC	
	POWER SUPPLY	
	LED VERTICAL PCB	
	OL 6LED BASE PLATE	楆
	OL 6LED STAR DISK	
	LED EMITTER	
	5/32" X 11/32" RUBBER GROMMET	
	6-32 X 1/4" PH PH SCREW	
	#20AWG RED BELDON WIRE	
	#14AWG GREEN BELDON WIRE	
	RING TERMINAL (GROUND WIRE)	
	RED WIRE NUT FOR #8 TO #12 WIRE	

T	WR	Lighting, [®] In Enlightened Jechnology [®]	• HAR	R
TITLE				
OL2V LED S		AA-OL16LED 120-240 810 LED DOUBLE OE		
SIZE		DWG NO		REV
В		100658		F
SCALE		SI	HEET 1 OF 1	
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