	Sheetlist							
Sheet Number	Sheet Name							
G 01	Cover							
A 200	Painting							
EL 001	General Lighting							
EL 002	Emergency Lighting							
EL 200	Interior							
EL 300	Details and Schedules							

General Project Requirements:

before bidding.

lengths and other amounts may be incorrect and owner is not liable for mismatch.

Notes applied to single items may apply to all like items on view.

Α.



Where existing underground or covered utilities/services are suspected in close proximity (within 4' horizontally and/or vertically) to necessary new construction work, the Contractor shall be responsible to test, probe or otherwise determine exact locations so as to prevent damage to such utilities/services. This requires ground-penetrating radar or other similar tools. Typical locations include, but are not limited to, slabs, walls and other solid elements.

K. Site Visits: Contractor shall accommodate occasional site visits by interested parties, such as user agency staff, politicians, or inspectors. Contractor shall make the construction site safe and provide typical PPE, such as hard hats, safety glass, and safety vests.

## Fire Station 8 Lighting Retrofit (BPW)

All scheduled numbers and amounts of material and equipment are for contractor's convenience only. Contractor shall count and measure independently for bidding and ordering purposes. All scheduled numbers,

Before bidding, contractor shall familiarize with existing conditions, scope of work and means and methods required. Contractor shall inquire about any missing or apparently incomplete details and specifications

**PROJECT DESCRIPTION:** Α.

SPECIAL SITE CONDITIONS: NA

Н.

Ι.

- WORK HOURS C.

- Meet requirements of local ordinances, rules and laws.
- Hours of operation are limited to 7 a.m. to 7 p.m. Monday through Saturday and Sunday 10 a.m. through 7 p.m. unless approved otherwise. WORK AND EQUIPMENT PROVIDED BY OWNER (DON'T INCLUDE IN BID PRICE):
- D. 1. NA
- SPECIAL WARRANTIES:
- NA PROVISIONS FOR FUTURE WORK
- NA G.
- PROVISIONS FOR RETROFIT INSTALLATIONS NA
- PERMIT REQUIREMENTS:
- Contractor is responsible to obtain all permits. See specifications for details.
- UTILITIES:
- Contractor may use owner's power and water at no cost. CONTINUITY OF SERVICE:
- NA SEQUENCING REQUIREMENTS: Κ.
- NA
- ALTERNATES: NA 1.

City- 210 Ma	Facilites Management County Building, Room 115 Intin Luther King Jr. Boulevard Madison, WI 53703
Ser Ser	OF MADISOR
Client Madis	: on Fire Department
Locat 3945 Madis	ion: Lien Road on, WI 53714
Contra Projec	act: 9655 ct: 15434
F Liç	ire Station 8 ghting Retrofit (BPW)
	Revisions
No.	Revisions Description
No.	Revisions Description
No.	Revisions Description
No.	Revisions
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No.	Revisions   Description
No.	Revisions         Description         Image: Descriptio
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No.	Revisions         Description

Print in color on 24" x 36"



1 A Painting - Level 1 1/8" = 1'-0"

	Keynote Legend							
Key Value	Keynote Text							
1	Repair Drywall and match texture. Paint entire field above window. Match adjacent wall color.							
2	Repair Drywall and match texture. Paint entire wall. Match adjacent wall color.							
3	Modify Ceiling to accomodate new fixture.							

2	0	2	4	6	8	10	2	0 2	2 4	6	8	10	12	14	5	0	5	10	15	20	5	0
1/4" =	: 1'-0"			FEE	ET		3/16"	= 1'-0"				FEET	-		1/8" =	1'-0"			FEET		3/32'	" = 1'-



1" = 20'-0"

FEET

(2) A Ceiling- Level 1 1/8" = 1'-0"



	City of Madison Facilites Management City-County Building, Room 115 210 Martin Luther King Jr. Boulevard Madison, WI 53703
	OF MADISON
	Client: Madison Fire Department
	Location: 3945 Lien Road Madison, WI 53714
-	Contract: 9655 Project: 15434
	Fire Station 8 Lighting Retrofit (BPW)
	Devisions
-	No. Description
-	
-	
-	
	Project North
	Dainting and
	Ceiling Work
	A 200
	Print Date: 4/2/2025 14:20:59

Print in color on 24" x 36"

<u>Set</u> - Not for Construction



(1) E Demo Ceiling - Level 1 3/32" = 1'-0"

Keynote Legend								
igs and patch								
ıgs								



4

( B

( C



(4)

(2) E Demo Ceiling - Level 2 3/32" = 1'-0"



## **Review Set - Not for Construction**



Client: Madison Fire Department

Location: 3945 Lien Road Madison, WI 53714

Contract: 9655 Project: 15434

> Fire Station 8 Lighting Retrofit (BPW)

	l	ECC 20	15 Ligi	nting Le	evels					
	Workplane Height	Min. Required Avgerage Illumination	Actual Average Illumination	Illumination Goal	Max. Allowed Power Density IECC 2015	Actual Power Density	Actual Power Density compared to Code	Allowed Lighting Load	Actual Lighting Load	Space Lighting Load Contributing to Total Building Lighting Load
	2' - 6"	40 fc	48.5 fc	121%	1.11 W/ft <sup>2</sup>	0.6 W/ft <sup>2</sup>	54%	197 VA	107 VA	0.01 VA/ft <sup>2</sup>
	2' - 6"	40 fc	46.8 fc	117%	1.11 W/ft <sup>2</sup>	0.56 W/ft <sup>2</sup>	50%	176 VA	88 VA	0.01 VA/ft <sup>2</sup>
;	2' - 6"	20 fc	26 fc	130%	0.38 W/ft <sup>2</sup>	0.35 W/ft <sup>2</sup>	92%	55 VA	50 VA	0.01 VA/ft <sup>2</sup>
	2' - 6"	20 fc	27.3 fc	137%	0.98 W/ft <sup>2</sup>	0.56 W/ft <sup>2</sup>	57%	73 VA	42 VA	0 VA/ft <sup>2</sup>
;	2' - 6"	20 fc	28.9 fc	144%	0.38 W/ft <sup>2</sup>	0.35 W/ft <sup>2</sup>	91%	55 VA	50 VA	0.01 VA/ft <sup>2</sup>
	2' - 6"	10 fc	23.6 fc	236%	0.63 W/ft <sup>2</sup>	0.76 W/ft <sup>2</sup>	121%	12 VA	14 VA	0 VA/ft <sup>2</sup>
arried	2' - 6"	30 fc	33.3 fc	111%	0.95 W/ft <sup>2</sup>	0.45 W/ft <sup>2</sup>	47%	51 VA	24 VA	0 VA/ft <sup>2</sup>
	2' - 6"	10 fc	20.7 fc	207%	0.66 W/ft <sup>2</sup>	0.3 W/ft <sup>2</sup>	46%	244 VA	112 VA	0.01 VA/ft <sup>2</sup>
	2' - 6"	30 fc	50.7 fc	169%	0.95 W/ft <sup>2</sup>	0.69 W/ft <sup>2</sup>	72%	219 VA	158 VA	0.02 VA/ft <sup>2</sup>
	2' - 6"	30 fc	50.7 fc	169%	0.95 W/ft <sup>2</sup>	0.86 W/ft <sup>2</sup>	91%	51 VA	46 VA	0 VA/ft <sup>2</sup>
	2' - 6"	20 fc	30.5 fc	153%	0.73 W/ft <sup>2</sup>	0.31 W/ft <sup>2</sup>	42%	251 VA	106 VA	0.01 VA/ft <sup>2</sup>
	2' - 6"	20 fc	33.3 fc	167%	0.73 W/ft <sup>2</sup>	0.61 W/ft <sup>2</sup>	84%	35 VA	29 VA	0 VA/ft <sup>2</sup>
	2' - 6"	50 fc	57.2 fc	114%	1.21 W/ft <sup>2</sup>	0.43 W/ft <sup>2</sup>	35%	394 VA	140 VA	0.01 VA/ft <sup>2</sup>
	2' - 6"	20 fc	47.9 fc	239%	0.73 W/ft <sup>2</sup>	0.52 W/ft <sup>2</sup>	71%	294 VA	209 VA	0.02 VA/ft <sup>2</sup>
arried	2' - 6"	30 fc	31.2 fc	104%	0.95 W/ft <sup>2</sup>	0.73 W/ft <sup>2</sup>	77%	31 VA	24 VA	0 VA/ft <sup>2</sup>
	2' - 6"	10 fc	12.7 fc	127%	0.66 W/ft <sup>2</sup>	0.19 W/ft <sup>2</sup>	28%	126 VA	36 VA	0 VA/ft <sup>2</sup>
	2' - 6"	20 fc	34.7 fc	174%	0.98 W/ft <sup>2</sup>	0.48 W/ft <sup>2</sup>	49%	244 VA	120 VA	0.01 VA/ft <sup>2</sup>
	2' - 6"	20 fc	27.8 fc	139%	0.98 W/ft <sup>2</sup>	0.54 W/ft <sup>2</sup>	55%	184 VA	101 VA	0.01 VA/ft <sup>2</sup>
arried	2' - 6"	30 fc	31.1 fc	104%	0.95 W/ft <sup>2</sup>	0.48 W/ft <sup>2</sup>	50%	70 VA	35 VA	0 VA/ft <sup>2</sup>
;	2' - 6"	20 fc	27.3 fc	137%	0.38 W/ft <sup>2</sup>	0.32 W/ft <sup>2</sup>	83%	451 VA	376 VA	0.04 VA/ft <sup>2</sup>
	2' - 6"	30 fc	39.9 fc	133%	0.72 W/ft <sup>2</sup>	0.38 W/ft <sup>2</sup>	53%	374 VA	199 VA	0.02 VA/ft <sup>2</sup>
arried	2' - 6"	30 fc	31.7 fc	106%	0.95 W/ft <sup>2</sup>	0.44 W/ft <sup>2</sup>	46%	61 VA	28 VA	0 VA/ft <sup>2</sup>
arried	2' - 6"	30 fc	31.3 fc	104%	0.95 W/ft <sup>2</sup>	0.55 W/ft <sup>2</sup>	58%	48 VA	28 VA	0 VA/ft <sup>2</sup>
arried	2' - 6"	30 fc	39.5 fc	132%	0.95 W/ft <sup>2</sup>	0.46 W/ft <sup>2</sup>	49%	188 VA	92 VA	0.01 VA/ft <sup>2</sup>
	2' - 6"	40 fc	52.1 fc	130%	1.59 W/ft <sup>2</sup>	0.72 W/ft <sup>2</sup>	46%	352 VA	160 VA	0.02 VA/ft <sup>2</sup>
	2' - 6"	20 fc	26.7 fc	133%	0.98 W/ft <sup>2</sup>	0.57 W/ft <sup>2</sup>	58%	48 VA	28 VA	0 VA/ft <sup>2</sup>
	2' - 6"	10 fc	13.3 fc	133%	0.66 W/ft <sup>2</sup>	0.23 W/ft <sup>2</sup>	34%	41 VA	14 VA	0 VA/ft <sup>2</sup>
9	2' - 6"	30 fc	30.3 fc	101%	0.56 W/ft <sup>2</sup>	0.21 W/ft <sup>2</sup>	38%	1,844 VA	694 VA	0.07 VA/ft <sup>2</sup>
;	2' - 6"	20 fc	23.2 fc	116%	0.38 W/ft <sup>2</sup>	0.27 W/ft <sup>2</sup>	71%	85 VA	60 VA	0.01 VA/ft <sup>2</sup>
carried	2' - 6"	30 fc	30.1 fc	100%	0.95 W/ft <sup>2</sup>	0.65 W/ft <sup>2</sup>	68%	55 VA	38 VA	0 VA/ft <sup>2</sup>
carried	2' - 6"	30 fc	30.1 fc	100%	0.95 W/ft <sup>2</sup>	0.64 W/ft <sup>2</sup>	68%	56 VA	38 VA	0 VA/ft <sup>2</sup>
carried	2' - 6"	30 fc	30.1 fc	100%	0.95 W/ft <sup>2</sup>	0.64 W/ft <sup>2</sup>	68%	56 VA	38 VA	0 VA/ft <sup>2</sup>
	2' - 6"	30 fc	31.8 fc	106%	0.95 W/ft <sup>2</sup>	0.45 W/ft <sup>2</sup>	48%	159 VA	76 VA	0.01 VA/ft <sup>2</sup>
	2' - 6"	30 fc	42 fc	140%	0.95 W/ft <sup>2</sup>	0.39 W/ft <sup>2</sup>	41%	182 VA	76 VA	0.01 VA/ft <sup>2</sup>
	2' - 6"	30 fc	36.1 fc	120%	0.95 W/ft <sup>2</sup>	0.35 W/ft <sup>2</sup>	37%	129 VA	48 VA	0 VA/ft <sup>2</sup>
								6.889 VA	3,482 VA	0.35 VA/ft <sup>2</sup>

General Lighting

Revisions

No. Description

EL 001

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1) EL Egress - Level 1 1/8" = 1'-0"

2	0	2	4	6	8	10	2
1/4'	' = 1'-0"			F	EET		3/16

16" = 1'-0" FEET

1/8" = 1'-0"

FEET

3/32" = 1'-0"







City- 210 Ma	Lesigned by: City of Madison Facilites Management County Building, Room 115 Irtin Luther King Jr. Boulevard Madison, WI 53703
	OF MADISOR
Client Madis	: on Fire Department
Locat 3945 Madis	ion: Lien Road on, WI 53714
Contra Projec	act: 9655 ct: 15434
F Liç	ire Station 8 ghting Retrofit (BPW)
	Revisions
No.	Description
	Project North TRUE
	$\bigcirc$
Er	mergency
	Lighting
E	EL 002
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1)EL - Level 1 3/16" = 1'-0' 3/16" = 1'-0" 3/32" = 1'-0" FEET FEET 1/8" = 1'-0" FEET 1/4" = 1'-0"

FEET

1/16" = 1'-0" FEET

1" = 20'-0"

FEET

4/2/2025 14:21:04 Print in color on 24" x 36"

			Emerge	ency Ligh	ting Inverters (26 33 23.13 - 0	Central Batte	ery Equipm	ent for E	Emergency Li	ghting
Mosk	Space Number	Space Nome	Description	Manufacturar	Madal	LIDI	Input Dating	In / Out	Moight	Turne D
IVIAIK	Space Number	Space Name	Description	Manufacturer	Model	UKL	прис кашу	voltage	weight	Туреке
ELI-1	108	Mechanical	Emergency Lighting Inverter	Myers	EM-1-S-B-10-02-T-M(BBM)-I-F	www.myerseps.com	1000 VA	120 V	281 lbm	

	Lighting Device Schedule (26 09 23 - Lighting Control Devices)								
		Est.							
I ype Mark	Description	Count	Model	URL	Environmental Rating	Type Remark			
FM-MH	Fixture-mount Motion Sensor, 28' range at 30' heigh	nt 10	Sensorswitch LSXR-6-ADC-VLP	www.acuitybrands.com		Select Bracket Option to be compatible with Light Fixture			
FM-MS	Fixture-mount Motion Sensor, 12' range at 9' heigh	t 6	Sensorswitch LSXR-9-ADC-VLP	www.acuitybrands.com		Select Bracket Option to be compatible with Light Fixture			
FM-MW	Fixture-mount Motion Sensor, 28' range at 9' heigh	t 4	Sensorswitch LSXR-10-ADC-VLP	www.acuitybrands.com		Select Bracket Option to be compatible with Light Fixture			
MS	Motion Sensor short Range	29	Sensorswitch CMR-PDT-9-ADC-VLP	www.acuitybrands.com					
MW	Motion Sensor wide Range	21	Sensorswitch CMR-PDT-10-ADC-VLP	www.acuitybrands.com					
S3W	3-Way Switch	8							
S-1	Single Switch	12							
SD-10	Switch w/ 0-10V Dimmer	49	Wattstopper RH4FBL3PW	www.legrand.us					
T-60	Timer 60 Minutes	2	Intermatic FF60MC	www.intermatic.com					

		Est.				
Type Mark	Description	Count	Model	URL	Environmental Rating	Type Remark
FM-MH	Fixture-mount Motion Sensor, 28' range at 30' heigh	t 10	Sensorswitch LSXR-6-ADC-VLP	www.acuitybrands.com		Select Bracket Option to be compatible with Light Fixture
FM-MS	Fixture-mount Motion Sensor, 12' range at 9' height	6	Sensorswitch LSXR-9-ADC-VLP	www.acuitybrands.com		Select Bracket Option to be compatible with Light Fixture
FM-MW	Fixture-mount Motion Sensor, 28' range at 9' height	4	Sensorswitch LSXR-10-ADC-VLP	www.acuitybrands.com		Select Bracket Option to be compatible with Light Fixture
MS	Motion Sensor short Range	29	Sensorswitch CMR-PDT-9-ADC-VLP	www.acuitybrands.com		
MW	Motion Sensor wide Range	21	Sensorswitch CMR-PDT-10-ADC-VLP	www.acuitybrands.com		
S3W	3-Way Switch	8				
S-1	Single Switch	12				
SD-10	Switch w/ 0-10V Dimmer	49	Wattstopper RH4FBL3PW	www.legrand.us		
T-60	Timer 60 Minutes	2	Intermatic FF60MC	www.intermatic.com		

									5 5	(	5	
Type Mark	Description	Length	Width	Height	Diameter	Type Image	Est. Count	Model	URL	Real Power	Luminous Flux	Color
CA-1.0K	Can Light 6"			6"	6"		6	Cree LR6-10L-40K-GU24-E26	www.cree.com	12.5 W	1,000 lm	4000 H
EX-AC	Exit Sign, Standard, no Battery		11 3/4"	7 1/2"		EXIT	11	Lithonia LQM-S-W-3-G-120/277	www.acuitybrandslighting.com	1 W		
LR-2-500L	Linear Recessed	2'-0"	3"	4"			1	Pinnacle EV3D-HE-40-U-FSD-1-0-W	www.pinnacle-ltg.com	7.2 W	1,000 lm	4000 H
LR-4-750L	Linear Recessed	4'-0"	3"	4"			1	Pinnacle EV3D-HE-40HO-U-FSD-1-0-W	www.pinnacle-ltg.com	20.8 W	3,000 lm	4000 H
LR-4-1000L	Linear Recessed	4'-0"	3"	4"			2	Pinnacle EV3D-HE-40VHO-U-FSD-1-0-W	www.pinnacle-ltg.com	27.6 W	4,000 lm	4000 H
LR-8-750L	Linear Recessed	8'-0"	3"	4"			1	Pinnacle EV3D-HE-40HO-U-FSD-1-0-W	www.pinnacle-ltg.com	41.6 W	6,000 lm	4000 H
LS-2-2.0K	Linear Surface	2'-0"	3 1/2"	3 1/2"			10	Lithonia CLX-L24-2000LM-HEF-RDL-MVOLT-EZ1-40K-80CRI-WH	www.acuitybrands.com	13.5 W	1,982 lm	4000 H
LS-4-4.0K	Linear Surface	4'-0"	3 1/2"	3 1/2"			2	Lithonia CLX-L48-4000LM-HEF-RDL-MVOLT-EZ1-40K-80CRI-WH	www.acuitybrands.com	23.8 W	4,090 lm	4000 H
LS-VT-4-4.0K-W	Linear Surface Vapor-Tight, Wide Distribution	4'-4"	6 3/4"	4"			2	Lithonia FEM-L48-4000LM-LPACL-WD-MVOLT-GZ10-40K-80CRI	www.acuitybrands.com	23.8 W	4,109 lm	4000 H
LS-VT-4-6.0K-W	Linear Surface Vapor-Tight, Wide Distribution	4'-4"	6 3/4"	4"		~	7	Lithonia FEM-L48-6000LM-LPACL-WD-MVOLT-GZ10-40K-80CRI	www.acuitybrands.com	37.8 W	6,127 lm	4000 H
LS-VT-8-9.0K-M	Linear Surface Vapor-Tight, Medium Distribution	8'-4"	6 3/4"	4"		~	15	Lithonia FEM-L96-9000LM-LPACL-MD-MVOLT-GZ10-40K-80CRI	www.acuitybrands.com	53.4 W	9,232 lm	4000 H
LS-VT-8-9.0K-W	Linear Surface Vapor-Tight, Wide Distribution	8'-4"	6 3/4"	4"		~	1	Lithonia FEM-L96-9000LM-LPACL-WD-MVOLT-GZ10-40K-80CRI-STSL	www.acuitybrands.com	53.4 W	9,232 lm	4000 1
LW-45-6-6.0K	Linear Wall on 45° Bracket	6'-0"	3 1/2"	3 1/2"			6	Kenall MLHA3-72-R-MW-FA-10000LF-40K8-DIM1-DV-DL-CMB	www.kenall.com	48 W	6,078 lm	4000
PR-1x4-3.0K	Panel Recesed	4'-0"	1'-0"	3"			1	Lithonia SPX-1x4-4000LM-80CRI-40K-BFR-LUGR-MIN1-ZT-MVOLT-WH	www.acuitybrands.com	22 W	3,137 lm	4000
PR-2x2-2.0K	Panel Recesed	2'-0"	2'-0"	3"		$\bigcirc$	30	Lithonia SPX-2x2-2000LM-80CRI-40K-BFR-LUGR-MIN1-ZT-MVOLT-WH	www.acuitybrands.com	14 W	2,111 lm	4000 1
PR-2x2-3.4K	Panel Recesed	2'-0"	2'-0"	3"		$\langle \rangle$	34	Lithonia SPX-2x2-3400LM-80CRI-40K-BFR-LUGR-MIN1-ZT-MVOLT-WH	www.acuitybrands.com	23 W	3,438 lm	4000 I
PR-2x2-4.0K	Panel Recesed	2'-0"	2'-0"	3"		$\langle \rangle$	23	Lithonia SPX-2x2-4000LM-80CRI-40K-BFR-LUGR-MIN1-ZT-MVOLT-WH	www.acuitybrands.com	28 W	4,080 lm	4000
PR-2x2-4.8K	Panel Recesed	2'-0"	2'-0"	3"		$\bigcirc$	1	Lithonia SPX-2x2-4800LM-80CRI-40K-BFR-LUGR-MIN1-ZT-MVOLT-WH	www.acuitybrands.com	35 W	4,958 lm	4000
ST-BN	Step Light w/ horizontal Scoop; Brush Nickel		5 1/4"	3 1/2"			15	EuroFase 36046-010	www.eurofase.com	2 W	145 lm	3000 1

Lighting Control Programming Guide								
Key Name HIDE!	Programming Scheme	Trigger ON	Trigger Off	Time Delay to Dim-Down	Time to Off (or lowest dimming state)	Lowest Dimming Range	Photocell Setting	Note
1 O-D	O-D	Occupancy	NA	15 min	10 min	1V / 10%	NA	Fixture is dim (e.g. 10%) when space is no occupied.
1 O-D-P	O-D-P	Occupancy	NA	15 min	10 min	1V / 10%	Auto-Setpoint to match artificial lighting levels	Fixture is dim (e.g. 10%) when space is no occupied. Fixture turns off when daylight is sufficient.
2 0	0	Occupancy / Switch	Occupancy / Switch	15 min	10 min	1V / 10%	NA	Fixture is off when space is not occupied. User can turn off or dim lights (if dimmer / switch scheduled)
2 O-P	O-P	Occupancy / Switch	Occupancy / Switch	15 min	10 min	1V / 10%	Auto-Setpoint to match artificial lighting levels	Fixture is off when space is not occupied. User can turn off or dim lights (if dimmer / switch scheduled). Fixture dims down or turns off whne daylight is sufficient.
								C

Level 2- Mezzanine (	Sarade	
+10' - 4"		
Level 1 - Grade		
+0"		

1 EL Elevation - Garage Looking East 3/16" = 1'-0"

# **Review Set - Not for Construction**









g)	
Remark	Specific Remark
	Review location with engineer

	Designed by: City of Madison Facilites Management City-County Building, Room 115 210 Martin Luther King Jr. Boulevard Madison, WI 53703
	Client: Madison Fire Department
	Location: 3945 Lien Road Madison, WI 53714
	Contract: 9655 Project: 15434
	Fire Station 8 Lighting Retrofit (BPW)
	Revisions       No.     Description
	Details and
Construction	EL 300

Print Date: 4/2/2025 14:21:05 Print in color on 24" x 36"