



SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NUMBER
○●②①⊕	RECESSED DOWNLIGHT	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
↑	TRACK LIGHT	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	FLUORESCENT STRIP	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	FLUORESCENT STRIP (CHAIN HUNG)	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	FLUORESCENT STRIP (SURFACE MOUNT)	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	EMERGENCY FLUOR. STRIP	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	FLUORESCENT TROFFER	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
⊕	SCENCE	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	DECORATIVE PENDANTS	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	EXIT SIGN	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	EXIT SIGN	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	EMERGENCY LIGHT, SEMI-RECESSED	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	EMERGENCY LIGHT, RECESSED	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	SWITCH	
—	SWITCH - MOTION SENSOR	HUBBELL AD1277K2 PASSIVE INFRARED, DOUBLE POLE, SINGLE THROW WALL SWITCH SENSOR WITH TWO SEPARATE RELAYS. WHITE COLOR FINISH.
—	CEILING MOUNTED-MOTION SENSOR	HUBBELL ATP2000C DUAL TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR WITH SEPARATE RELAYS. WHITE COLOR FINISH.
—	CEILING MOUNTED-DAYLIGHT SENSOR	HUBBELL #DHAP AND DHCM CONTROL UNIT, MOUNTING LOCATION AND SENSITIVITY SETTINGS TO BE FIELD DETERMINED
—	WALL MOUNTED-VACANCY SENSOR	HUBBELL #R7S140M
—	SWITCH - DIMMER	HUBBELL S64M, SINGLE POLE, SINGLE THROW WALL DIMMER SWITCH. WHITE COLOR FINISH.
—	CURRENT LIMITER	# INDICATES AMPERAGE OF SUPPLEMENTAL BREAKER
—	NIGHT LIGHT	
—	EMERGENCY LIGHTING FIXTURE	
—	CEILING EXHAUST FAN	GG40, 160 VOLT, 1 PHASE, 115 WATTS
—	TRAFFIC COUNTER	
—	SPEAKERS	NOTE: WALL MOUNTED/CEILING MOUNTED
—	SUBWOOFER	
—	SECURITY CAMERA	
—	VISION MONITOR FOR SECURITY SYSTEM	

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## LIGHTING SYMBOL SCHEDULE

- LIGHTING SHALL BE CIRCUITED EXACTLY AS SHOWN ON PLANS. CIRCUITING SHALL BE "THRU-WIRING" WHERE AND WHENEVER POSSIBLE. MULTIPLE CONNECTIONS TO A SINGLE LIGHT FIXTURE FOR VOLTAGE DROP CONDITIONS OR AS A RESULT OF A FIELD CONDITION ARE ACCEPTABLE. LIGHTING FIXTURES SHALL BE MANUFACTURED TO ACCOMMODATE "THRU-WIRING". ANY RELATED COSTS FOR MULTIPLE CONNECTIONS SHOULD BE INCLUDED IN BID.
- ELECTRICAL CONTRACTOR'S BID SHALL INCLUDE THE INSTALLATION OF ALL LIGHT FIXTURES AND ASSOCIATED LAMPS FURNISHED BY LIGHTING PACKAGE DISTRIBUTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THE ADJUSTABILITY OF ALL DIRECTIONAL FIXTURES AFTER INSTALLATION AND AIM THEM PER GC DIRECTION. LIGHT FIXTURE SPECIFICATIONS MAY VARY. IF THIS IS THE CASE, CONTRACTOR IS TO CALL PURCHASING AGENT WHO WILL THEN CALL THE DISTRIBUTOR FOR EXACT SPECIFICATION OF LIGHTING FIXTURES. IF THE CEILING SYSTEMS ARE FIRE RATED, ELECTRICAL CONTRACTOR IS TO CLOSELY COORDINATE FIXTURE REQUIREMENTS WITH AUTHORITY HAVING JURISDICTION.
- EMERGENCY AND EXIT LIGHTS SHALL BE INSTALLED AND CIRCUITED PER LOCAL AND LATEST NATIONAL ELECTRICAL CODES. ALL EMERGENCY AND EXIT FIXTURES SHALL BE DUAL VOLTAGE WITH BATTERY BACK UP (120/277 VOLT INPUT). INSTALL A CENTRAL BATTERY SYSTEM WHERE THE USE OF INDIVIDUAL BATTERY UNITS ARE PROHIBITED BY LOCAL CODES. IF PLAN LOCATION IS NOT ACCEPTABLE, IMMEDIATELY CONTACT PROJECT MANAGER FOR DIRECTION.
- ALL LIGHTING CIRCUITS UP TO 100'-0" IN LENGTH SHALL UTILIZE #12 CONDUCTORS MINIMUM. ALL LIGHTING CIRCUITS FROM 100'-1" TO 150'-0" IN LENGTH SHALL UTILIZE #10 CONDUCTORS MINIMUM. ALL LIGHTING CIRCUITS 150'-0" UP TO 250'-0" IN LENGTH SHALL UTILIZE #8 CONDUCTORS MINIMUM. CIRCUITS ABOVE 251'-0" SHALL UTILIZE #6 CONDUCTORS MINIMUM.
- ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED FOR A FULLY COMPLETE AND OPERABLE SYSTEM.
- IT WILL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO UNLOAD INVENTORY AND STORE LIGHTING PACKAGE. THE ELECTRICAL CONTRACTOR WILL ALSO SHIP ANY EXCESS MATERIALS BACK TO THE ELECTRICAL PACKAGE DISTRIBUTOR.
- THE ELECTRICAL CONTRACTOR MUST INCLUDE IN THE BID TWO (2) HOURS OF START-UP TIME FOR THE LIGHTING CONTROL SYSTEM. THE ELECTRICAL CONTRACTOR WILL BE REQUIRED TO REPAIR OR REPLACE COMPONENTS FOUND TO BE DEFECTIVE. THE ELECTRICAL CONTRACTOR MUST COORDINATE LIGHTING CONTROL START-UP WITH HVAC MANUFACTURER REPRESENTATIVE. FAILURE TO DO SO MAY REQUIRE THE ELECTRICAL CONTRACTOR TO RETURN TO THE JOB SITE TO PERFORM START-UP AT A FUTURE DATE AT THE ELECTRICAL CONTRACTOR'S OWN EXPENSE.
- EXIT/EMERGENCY LIGHTS AT STOREFRONT ARE TO BE CEILING MOUNTED AND CENTERED OVER OPENING. EXIT/EMERGENCY LIGHTS AT DOOR TO NON-SALES SHALL BE CEILING MOUNTED AND CENTERED ABOVE DOOR. IF PLAN LOCATION IS NOT ACCEPTABLE, IMMEDIATELY CONTACT THE PROJECT MANAGER FOR DIRECTION.
- ELECTRICAL CONTRACTOR SHALL REFER BACK TO ARCHITECTURAL SHEETS FOR MOUNTING HEIGHTS OF ALL WALL MOUNTED EMERGENCY EGRESS AND EXIT FIXTURES. IF PLAN LOCATION IS NOT ACCEPTABLE, IMMEDIATELY CONTACT PROJECT MANAGER FOR DIRECTION.
- REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION AND EXACT LOCATION OF EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, SPEAKERS, DIFFUSERS, AND OTHER ARCHITECTURAL ELEMENTS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE UNISTRUT AND THREADED ROD FOR ALL SUSPENDED TRACK LIGHTS, EXIT SIGNS, EMERGENCY LIGHTS AND SPEAKERS
- GENERAL CONTRACTOR SHALL VERIFY CEILING FIRE RATING WITH ARCHITECT, AND BOX OR TENT ALL RECESSED LIGHT FIXTURES, IF REQUIRED, TO MAINTAIN CEILING FIRE RATING.
- ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL SHEETS FOR MOUNTING HEIGHTS AND INSTALLATION DETAILS FOR SUSPENDED LIGHTING IN SALES AREA, DENIM ROOM AND NON-SALES AS APPLICABLE.

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NUMBER	HEIGHT	LAMP	WATTS	VOLTS
C2V	2' LINEAR FLUORESCENT STRIP TSHO LAMP 3000K	BARTCO: MITS-IT-24W-UNV LAMP: PHILIPS: F24/T5/B30/HQ	2 7/16"	24 WATT, T8, MINATURE BI-PIN BASE, PROG. START LINEAR, FLUORESCENT 3000K, 85 CRI, 20,000 HRS.	24 WATTS	120 VOLTS
C4V	4' LINEAR FLUORESCENT STRIP TSHO LAMP 3000K 46 1/16" TOTAL FIXTURE LENGTH	BARTCO: MITS-IT-54W-UNV LAMP: PHILIPS: /29026 JF84T5/B30/HQ	2 7/16"	54 WATT, T8, MINATURE BI-PIN BASE, PROG. START LINEAR, FLUORESCENT 3000K, 85 CRI, 35,000 HRS.	54 WATTS	120 VOLTS
F9	4' CHAIN HUNG BARE LAMP T8 FLUORESCENT STRIP, ELECTRONIC BALLAST, 1 LAMP IN SECTION, WITH EMERGENCY PACK, HIRE GUARD	MERCURY: MM-182-OCT-C-ELB-120V-ETIPK-040G-MM-182, CHAIN/2FT LAMP: PHILIPS: F32T8/TL830/ALTQ	3 1/4"	32 WATT, T8, MEDIUM BI-PIN BASE, LINEAR FLUORESCENT 3000K, 85 CRI, 30,000 HRS.	32 WATTS	120 VOLTS
FK	4' CHAIN HUNG BARE LAMP FLUORESCENT STRIP, ELECTRONIC BALLAST, 1 LAMP IN SECTION, WIRE GUARD	MERCURY: MM-182-OCT-C-ELB-120V-ETIPK-040G-MM-182, CHAIN/2FT LAMP: PHILIPS: F32T8/TL830/ALTQ	3 1/4"	32 WATT, T8, MEDIUM BI-PIN BASE, LINEAR FLUORESCENT 3000K, 85 CRI, 30,000 HRS.	32 WATTS	120 VOLTS
FM	8' CHAIN HUNG BARE LAMP FLUORESCENT STRIP, ELECTRONIC BALLAST, 1 LAMP IN SECTION, (2) 4 SECTIONS TANDEM WIRED ON ONE BALLAST, QUICK CONNECT PLUGS	MERCURY: MM-182-OCT/8T-C-ELB-120V-ETIPK-040G-MM-182, CHAIN/2 FT LAMP: PHILIPS: F32T8/TL830/ALTQ	3 1/4"	(2) 32 WATT, T8, MEDIUM BI-PIN BASE, LINEAR FLUORESCENT 3000K, 85 CRI, 30,000 HRS.	58 WATTS	120 VOLTS
FN	12' CHAIN HUNG BARE LAMP FLUORESCENT STRIP, ELECTRONIC BALLAST, 1 LAMP IN SECTION, (3) 4 SECTIONS TANDEM WIRED ON ONE BALLAST, QUICK CONNECT PLUGS	MERCURY: MM-182-OCT/12T-C-ELB-120V-ETIPK-040G-MM-182, CHAIN/2FT LAMP: PHILIPS: F32T8/TL830/ALTQ	3 1/4"	(3) 32 WATT, T8, MEDIUM BI-PIN BASE, LINEAR FLUORESCENT 3000K, 85 CRI, 30,000 HRS.	85 WATTS	120 VOLTS
FO	16' CHAIN HUNG BARE LAMP FLUORESCENT STRIP, ELECTRONIC BALLAST, 1 LAMP IN SECTION, (4) 4 SECTIONS TANDEM WIRED ON ONE BALLAST, QUICK CONNECT PLUGS	MERCURY: MM-182-OCT/16T-C-ELB-120V-ETIPK-040G-MM-182, CHAIN/2 FT LAMP: PHILIPS: F32T8/TL830/ALTQ	3 1/4"	(4) 32 WATT, T8, MEDIUM BI-PIN BASE, LINEAR FLUORESCENT 3000K, 85 CRI, 30,000 HRS.	112 WATTS	120 VOLTS
H3	3' LOW VOLTAGE DOWNLIGHT WITH CLEAR REFLECTOR AND WHITE FLANGE FIXTURE	CONTECH: LVR316S / CTR302-P-CLR LAMP: PHILIPS: /20272 J45MRG16/RC/FL	4 1/2"	45 WATT, HALOGEN, IRC MR16, 2-PIN GX 5.3 BASE, QUARTZ HALOGEN, FLOOD, 5,000 HRS.	45 WATTS	120 VOLTS
H4	3' LOW VOLTAGE DOWNLIGHT WITH BLACK SLOTTED TRIM	CONTECH: LVR316S / CTR303N-B LAMP: PHILIPS: /20272 J45MRG16/RC/FL	4 1/2"	45 WATT HALOGEN, IRC MR16, 2 PIN GX 5.3 BASE, QUARTZ HALOGEN, FLOOD, 5000 HRS.	45 WATTS	120 VOLTS
N2E	1' x 4' SURFACE MOUNTED SINGLE LAMP FLUORESCENT TROFFER, PRISMATIC ACRYLIC LENS, ELECTRONIC BALLAST WITH EMPK	MERCURY: M30-232-OCT-9A-ELB-120V-ETIPK LAMP: PHILIPS: F32T8/TL830/ALTQ	3 3/4"	(2) 32 WATT, T8, MEDIUM BI-PIN BASE, LINEAR FLUORESCENT 3000K, 85 CRI, 30,000 HOURS	58 WATTS	120 VOLTS
P6	6-ARM 26" DIAMETER 37.5" HIGH JET BLACK CRYSTAL CHANDELIER	BOCK: BOCK LIGHTING CUSTOM 6-ARM JET BLACK LAMP: PHILIPS: 16811 B015BA9C/G/L/L 6/2	37 1/2"	(6) 15 WATT, BA9, CANDELABRA BASE, INCANDESCENT, 2000 HRS.	90 WATTS	120 VOLTS
R7	4' T6 METAL HALIDE RECESSED DOWN LIGHT SEMI DIFFUSED TRIM WITH WHITE FLANGE MEDIUM REFLECTOR	CONTECH: RL480T6MHE-120V / CST44-M-CLR-KBE LAMP: PHILIPS: CM135/T6/B30	6 3/8"	39 WATT, T6, G/2 BASE, METAL HALIDE, CLEAR, 3000K, 81 CRI, 12,000 HRS.	44 WATTS	120 VOLTS
R9	4' T6 METAL HALIDE RECESSED DOWN LIGHT SEMI DIFFUSED TRIM WITH BLACK FLANGE MEDIUM REFLECTOR	CONTECH: RL480T6MHE-120V / CST44-M-CLR-KBE LAMP: PHILIPS: CM135/TC/B30	6 3/8"	39 WATT T4, G/2 BASE, METAL HALIDE, CLEAR, 3000K, 81CRI	44 WATTS	120 VOLTS
T6	PAR38 SLIM STYLE GIMBAL TRACK LED, MED BASE SOCKET 3000K FLOOD LAMP SILVER LAMP FINISH	CONTECH: GT1838/2-U-25W LAMP: PHILIPS: 48201 19.5PAR38/END/F26 3000-1200-S	10 1/8"	19 WATT PAR38 LED, MED BASE SOCKET 3000K FLOOD LAMP SILVER LAMP	20 WATTS	120 VOLTS
T7	PAR38 SLIM STYLE GIMBAL TRACK HEAD BLACK FINISH WITH ON/OFF SWITCH LABELED 26 HATT MAX FLOOD LAMP BLACK LAMP FINISH	CONTECH: GT1838/2-B-25W LAMP: PHILIPS: 48239 19.5PAR38/END/F26 3000-1200-B	10 1/8"	19 WATT PAR38 LED, MED BASE SOCKET 3000K FLOOD 26 DEGREE FLOOD LAMP	20 WATTS	120 VOLTS
TP	SURFACE MOUNTED SINGLE CIRCUIT TRACK, SILVER FINISH	CON-TECH: LT2U, LT4U, LT6U, LT8U AS REQUIRED	11/16"	-	-	-
TR	SURFACE MOUNTED SINGLE CIRCUIT TRACK, BLACK FINISH	CON-TECH: LT2B, LT4B, LT6B, LT8B AS REQUIRED	11/16"	-	-	-
X2	SINGLE FACE ADJUSTABLE RECESSED OR WALL MOUNT LED EDGE-LIT EXIT SIGN WITH 30MIN BATTERY BACK UP WHITE FINISH WITH RED LETTERING ON CLEAR FACEPLATE	CONTECH: REKA-SF-R-EM-P SUPPLIED WITH FIXTURE	11 1/16"	INTEGRAL LED	3 WATTS	120 VOLTS
X6	THERMAPLASTIC EXIT SIGN, UNIVERSAL MOUNTING CEILING/WALL, LED LAMPS AND INTEGRAL BATTERY BACK UP FOR 90 MINUTES	LIGHTALARMS: GLXN500R-N SUPPLIED WITH FIXTURE	-	INTEGRAL LED	4 WATTS	120 VOLTS
X9	RECESSED EMERGENCY LIGHT FOR SALES FLOOR USE, ADJUSTABLE LAMP, INTEGRAL BATTERY FOR EMERGENCY OPERATION 90 MINUTE BATTERY BACK-UP	LIGHTALARMS: 60SP1/LH5 SUPPLIED WITH FIXTURE	7"	(1) 8W HALOGEN	8 WATTS	120 VOLTS
XA	RECESSED EMERGENCY LIGHT FOR SALES FLOOR USE, ADJUSTABLE LAMP, INTEGRAL BATTERY FOR EMERGENCY OPERATION 90 MINUTE 2 HEAD UNIT BLACK FINISH	DMP: DEL44-6-B	3 3/4"	2 (6V LAMPS)	10 WATTS	120 VOLTS

## CHECKPOINT RFID/EAS SYSTEM

## N LIGHTING PLAN CONSTRUCTION NOTES

## J ELECTRICAL LIGHT FIXTURE SCHEDULE

## E

**EXPRESS**  
EXPRESS FASHION OPERATIONS, LLC  
dlb/a STORE DESIGN & CONSTRUCTION  
1 Express Drive Columbus, Ohio 43230  
Telephone: 614.474.4001  
Express.com

**712**  
PROJECT INFORMATION:  
EXPRESS  
SPRINGFIELD TOWN CENTER  
6847 SPRINGFIELD MALL  
SPACE NO. 22049  
SPRINGFIELD, VA 22150  
NEW PACKAGE: PKG B  
DATE: FALL 2014  
GENERATION: 130832  
DESIGN TYPE: DG  
ESDAC PROJECT #: 94869 / A/E PROJECT #:

**REVISIONS:**

NO.	REVISION	DATE
1	REQUIRED BY:	05/13/14
2	UNLESS A DESIGNER COMMENTS	04/08/14
3		
4		
5		

2 INDICATES NO REVISION TO THIS SHEET

**M-Engineering**  
750 Brookside Blvd.  
Westerville, Ohio 43081  
phone: 614.839.4639  
fax: 614.839.2222

ELITE CONSTRUCTION GROUP  
LAKE JACKSON, TX  
PHONE: 979-283-0712  
NOTE: THESE PRINTS HAVE BEEN REDUCED BY 50 PERCENT SCALE WILL BE 50 PERCENT OF WHAT IS NOTED ON PLANS

DATE ISSUED: 02/14/2014  
DESIGNED BY: CDH  
DRAWN BY: CDH  
CHECKED BY: DRG

**ELECTRICAL DETAILS AND SCHEDULES**  
DRAWING NUMBER:  
**E04.1**