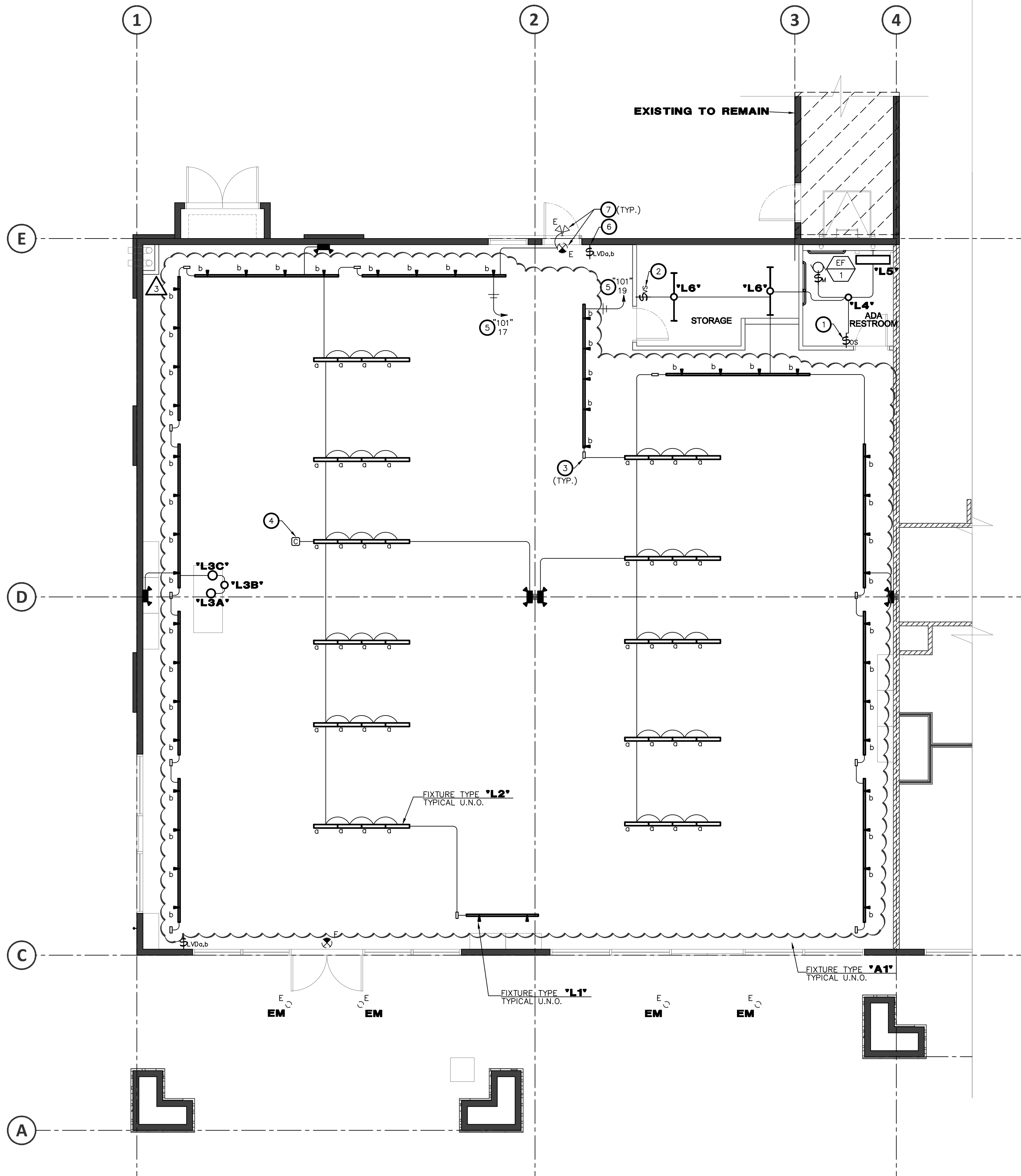
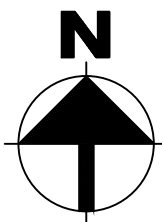




ELECTRICAL LIGHTING PLAN

3/16" = 1'-0"



IECC WATT PER SQUARE FOOT COMPLIANCE

RETAIL	=	3,815 s.f. x 1.22 W=	4,654.3 W
STORAGE	=	103 s.f. x 0.35 W=	36.1 W
RESTROOM	=	63 s.f. x 0.74 W=	46.6 W
TOTAL AVAILABLE WATTS = 4,737.0 W			

FIXT.	QTY	INPUT WATTS	SUB-TOTAL
* L1	11	x 240	= 2640 W
L2	44	x 39	= 1716 W
L3A	1	x 14	= 14 W
L3B	1	x 14	= 14 W
L3C	1	x 14	= 14 W
L4	1	x 22	= 22 W
L5	1	x 18	= 18 W
L6	2	x 30	= 60 W
TOTAL WATTS USED			= 4,462.4 W
WATTS AVAILABLE			= 4,737.0 W
CODE COMPLIANCE BY			= 274.6 W

THIS TABLE VERIFIES CODE COMPLIANCE FOR FIXTURE TYPES, QUANTITIES, AND POWER CONSUMPTION. TABLE PROVIDED AS COMPLIANCE MATERIAL TO MEET IECC 2024 - C101.4.1. METHOD IS ACCEPTABLE PER IECC C101.6.1.

* INPUT WATTAGE TAKEN FROM THE CURRENT LIMITER PER NEC 220.46(B).

LUMINAIRE SCHEDULE

- PROVIDE 90-MINUTE EMERGENCY BATTERY BACK-UP FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BELOW FOR SPECIFICATIONS AND LUMEN REQUIREMENTS.
- MODULAR WIRING SYSTEM FOR LIGHT FIXTURES IS AN ACCEPTABLE ALTERNATE.
- BASE BID FOR LUMINAIRES SHALL BE BASED ON MANUFACTURERS LISTED IN CONTRACT DOCUMENTS. UPON AWARD OF PROJECT, ALTERNATES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED WITH WRITTEN OWNER APPROVAL & AN ITEMIZED DEDUCT TO BASE BID.
- ALTERNATE FIXTURE SELECTIONS MAY REQUIRE ADDITIONAL TIME FOR SUBMITTAL REVIEW & POSSIBLE ENGINEERING DESIGN CHANGES. TO BE BILLED TO THE CONTRACTOR.
- PROVIDE MINIMUM 10 MINUTE TIME DELAY ON EMERGENCY FIXTURES WHEN HID AREA LIGHTING IS USED.

MARK	MANUFACTURER MODEL NUMBER	VOLTS	LAMPS CRI/CCT INPUT WATTS	REMARKS/MOUNTING
* L1	JUNO T1056L 30K 90CRI PDIM BL CPL	MVOLT	LED 90CRI/3000K 38W	SUSPENDED LED RACK LIGHTING MOUNTED AT 10' A.F.F. PROVIDE WITH 0-10V DIMMING.
* L2	AYO AST CS B NL8' 830 M L VH L 1D	MVOLT	LED 90CRI/3000K 39W	SUSPENDED LED 2" STRIP LIGHT MOUNTED AT 12' A.F.F. PROVIDE WITH 0-10V DIMMING.
* L3A	EUREKA 4160-LAC LED 30 90 DV DV SSC ALU CLR	MVOLT	LED 90CRI/3000K 14W	LED CONE PENDANT FIXTURE MOUNTED AT 7' A.F.F. CONFIRM FINISH WITH OWNER.
* L3B	EUREKA 4160-LAR LED 30 90 DV DV SSC ALU CLR	MVOLT	LED 90CRI/3000K 14W	LED CONE PENDANT FIXTURE MOUNTED AT 6' A.F.F. CONFIRM FINISH WITH OWNER.
* L3C	EUREKA 4160-LAR LED 30 90 DV DV SSC ALU CLR	MVOLT	LED 80CRI/3000K 14W	LED CONE PENDANT FIXTURE MOUNTED AT 7'-6" A.F.F. CONFIRM FINISH WITH OWNER.
* L4	GOETHAM IV04 D 20LM 30K 80CRI ND MINIO MVOLT 27 NCH P AR LSS	MVOLT	LED 80CRI/3000K 22W	LED RECESSED DOWNLIGHT MOUNTED AT 10' A.F.F.
* L5	LITHONIA FMVCSL 24IN MVOLT 30K 90CRI BN	MVOLT	LED 80CRI/3500K 18W	LED VANITY FIXTURE MOUNTED AT 7' A.F.F.
* L6	LITHONIA CSS L48 4000LM MVOLT MINIO 2T 30K 80CRI	MVOLT	LED 80CRI/3500K 30W	SURFACE MOUNT LED 4" STRIP LIGHT MOUNTED AT 9'-9" A.F.F.
* L7	LITHONIA ELM2L SERIES	MVOLT	INCLUDED <5	LED BUGEYE EMERGENCY FIXTURE MOUNTED AT 12' A.F.F.

* OR EQUAL.

ALL FIXTURES SELECTED BY OWNER AND CONTRACTOR. CONTRACTOR RESPONSIBLE FOR ALL LIGHTING LEVELS AND LIGHTING QUALITY WITHIN SPACE. CONTRACTOR TO VERIFY NRTL LISTING.

GENERAL NOTES - LIGHTING

- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
- THE ELECTRICAL CONTRACTOR SHALL (PRIOR TO HIS BID) a) VISIT THE SITE AND FIELD VERIFY ALL EXISTING CONDITIONS AND b) TAKE ALL CONSIDERATIONS INTO ACCOUNT AT THE TIME OF BID. NO CONSIDERATIONS WILL BE GRANTED THE CONTRACTOR AFTER THE BID IS ACCEPTED.
- ALL ELECTRICAL METALLIC TUBING (EMT), RIGID NON-METALLIC CONDUIT, FLEXIBLE METALLIC CONDUIT, FLEXIBLE NON-METALLIC CONDUITS, "SEAL TIGHT" TYPE CONDUITS AND ALL OTHER CONDUITS THAT DO NOT CONTAIN A CODE SIZED GROUND WIRE SHALL HAVE A CODE SIZED BOND WIRE PER NEC TABLE 250.122 INSTALLED WITH THE CIRCUIT CONDUCTORS.
- ALL NIGHTLIGHT/EMERGENCY LIGHT (NL/EM) FIXTURES SHALL BE CONNECTED UNSWITCHED. IF NO EMERGENCY LIFE SAFETY SYSTEM IS INSTALLED (ie: GENERATOR, etc.), THE OUTER LAMPS SHALL BE CONNECTED UNSWITCHED TO LOCAL LIGHTING CIRCUIT AND CONNECTED VIA AN EMERGENCY BALLAST - 1400 LUMEN OR FULL LUMEN OUTPUT MINIMUM. PROVIDE NEW IF NOT ALREADY EXISTING.
- ALL FIXTURES INSTALLED OUTDOORS SHALL BE RATED FOR DAMP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE DAMP/WET LOCATION RATING AND INSTALLATION PER NEC ARTICLE "FIXTURE LOCATIONS".
- ALL RECESSED LIGHT FIXTURES SHALL BE I.C. RATED OR A MINIMUM OF 3" FROM COMBUSTIBLE MATERIAL PER NEC ARTICLE "LUMINAIRES, LAMP HOLDERS AND LAMPS - CLEARANCE AND INSTALLATION".
- ELECTRICAL CONTRACTOR TO VERIFY A MINIMUM OF 1 FOOT-CANDLE AT 1 FOOT ABOVE FLOOR ALONG EXIT PATH PER IBC ARTICLE "MEANS OF EGRESS ILLUMINATION".
- LIGHT SWITCHES SHALL BE INSTALLED TO CONFORM TO NEC 404.8 ARTICLE "SWITCHES - ACCESSIBILITY AND GROUPING".
- ALL INDOOR FLUORESCENT FIXTURES WITH DOUBLE ENDED LAMPS SHALL HAVE INTEGRAL DISCONNECTS.
- J-BOXES INTENDED FOR THE USE OF SWITCHES CONTROLLING LIGHTING LOADS AND CONTAINING A GROUNDED GENERAL-PURPOSE BRANCH CIRCUIT FOR LIGHTING SHALL CONTAIN A NEUTRAL CONDUCTOR AS REQUIRED PER NEC 404.2.

KEYED NOTES

- WALL/CEILING MOUNTED OCCUPANCY SENSOR SHALL BE PROGRAMMED FOR AUTO ON/AUTO OFF MODE. TYPICAL.
- WALL/CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SHALL BE PROGRAMMED AS VACANCY SENSOR, MANUAL ON/AUTO OFF.
- PROVIDE J-BOX FOR 120V, 2A CURRENT LIMITER FOR TRACK LIGHTING.
- LIGHTING ROOM CONTROLLER (NXRCFX SERIES OR EQUAL) LOCATED ABOVE CEILING. VERIFY ALL REQUIREMENTS WITH LIGHTING MANUFACTURER PRIOR TO ROUGH-IN.
- ROUTE CIRCUIT VIA ROOM CONTROLLER (NXRCFX SERIES OR EQUAL) TO COMPLY WITH IECC C405.2.2 LIGHTING CONTROL REQUIREMENTS. CONTROLLER SHALL PROVIDE AUTOMATIC SHUT OFF TIME AND DIMMING CAPABILITY.
- LOW VOLTAGE DIMMER SWITCH.
- ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING EXIT SIGN AND EXTERIOR EMERGENCY LIGHT FIXTURE FROM CURRENT EXISTING BRANCH CIRCUIT AND RE-CIRCUIT TO NEW LIGHTING CIRCUIT AS SHOWN. TYPICAL.



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DATE	REVISION	DESCRIPTION
07/20/26	1	CITY COMMENTS
07/23/26	2	OWNER COMMENTS
08/20/26	3	OWNER COMMENTS

NOTICE OF ALTERNATE BILLING OR PAYMENT CYCLE:
THIS CONTRACT MAY ALLOW THE OWNER TO REQUIRE THE SUBMISSION OF BILLING OR ESTIMATES IN BILLING CYCLES OTHER THAN THIRTY DAYS. THIS CONTRACT MAY ALLOW THE OWNER TO MAKE PAYMENT ON A MONTHLY BASIS. THE CONTRACTOR SHALL CERTIFY AND APPROVE OF BILLING AND ESTIMATES. A WRITTEN DESCRIPTION OF BILLING AND ESTIMATES IS AVAILABLE TO THE PROJECT IS AVAILABLE FROM OWNER OR DESIGNATED AGENT.

NAME:
ADDRESS:
CONTACT NAME:
PHONE:

MATTRESS SHOP
- SUITES #1 AT PASEO LINDO SHOPPING CENTER
NEC OF ARIZONA AVE AND OCOTILLO RD.
CHANDLER, AZ

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design by: RH
drawn by: MM
checked by: RH

E3.0

project #: 26102.00

DESIGN CODES
IECC, 2024 NEC, 2023

ELECTRICAL CONTRACTOR SHALL NOTIFY DESIGNER/ENGINEER PRIOR TO ANY DEVIATION FROM THIS SET OF ELECTRICAL DESIGN PLANS. ANY CHANGES TO THE DESIGN, IF APPROVED BY ENGINEER, WILL REQUIRE REVISIONS TO PLANS AND POSSIBLE ADDITIONAL SERVICE FEE.

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