LIGHTING LEGEND

SYMBOL	DESCRIPTION
	2'x4' PARABOLIC FLUORESCENT LIGHT FIXTURE 120V, 60Hz, 3x F32T8 LAMPS, MAX 85W INPUT TO BE SELECTED BY OWNER/ARCHITECT
	EMERGENCY LIGHT W/ BATTERY BACKUP FOR 90MIN. 2'x4' PARABOLIC FLUORESCENT LIGHT FIXTURE 120V, 60Hz, 3x F32T8 LAMPS, MAX 85W INPUT TO BE SELECTED BY OWNER/ARCHITECT
	2'x2' PARABOLIC FLUORESCENT LIGHT FIXTURE 120V, 60Hz, 2x F17T8 LAMPS, MAX 32W INPUT TO BE SELECTED BY OWNER/ARCHITECT
	LOW/MED BAY LED PENDANT LIGHT FIXTURE 120V, 60Hz, MAX 170W INPUT TO BE SELECTED BY OWNER/ARCHITECT
	EXIT SIGN WITH BATTERY BACK UP FOR 90 MIN. HATCH AREA INDICATES FACE OF SIGN ARROW INDICATES EXIT DIRECTION
	EMER. LIGHTING FIXTURE WITH BATTERY BACK-UP AND WITH SELF DIAGNOSTICS. (+12"ABOVE DOOR FRAME, U.N.D) DUAL LITE LZ 25D I 10W , 137LUMEN
	COMBINATION EMERGENCY LIGHT / EXIT SIGN WITH BATTERY BACK-UP FOR 90 MIN. AND WITH SELF DIAGNOSTICS. LITHONIA MDL# LHQM-S-R-N OR APPROVED EQUAL
$	LIGHT SWITCH (+48" A.F.F, TO TOP. U.N.D)
$3	3 WAY LIGHT SWITCH (+48" A.F.F, TO TOP. U.N.D)
$M	1 POLE SWITCH, 20A, HP RATED
$2	2 POLE SWITCH, 30A, HP RATED
	DIMMER SWITCH (+48" A.F.F, TO TOP. U.N.D)
T	TIME SWITCH INTERMATIC T 101, 120V, 40A, SPST, OR EQUAL
S(3)	PIR OCCUPANCY/VACANCY SENSOR WALL SWITCH EATON, MDL# OSW-P-120/277V OR APPROVED EQUAL (+48" A.F.F, TO TOP. U.N.D) "3" INDICATES 3-WAY SWITCH
ST(3)	DIGITAL PROGRAMABLE TIME SWITCH WALL MOUNTED INTERMATIC, MDL# ST01, 120/277V OR APPROVED EQUAL "3" INDICATES 3-WAY SWITCH (+48" A.F.F, TO TOP. U.N.D)
	EXHAUST FAN (SEE MECHANICAL PLANS FOR SPECS)

POWER LEGEND

SYMBOL	DESCRIPTION
	SIMPLEX OUTLET (20A, +48"O.C. FROM A.F.F, U.N.D)
	DUPLEX RECEPT. (15A, +18"O.C. FROM A.F.F, U.N.D)
	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTER (20A, +6"O.C., ABOVE COUNTER, U.N.D)
	FLOOR MTD. DUPLEX RECEPTACLE (20A, U.N.D)
	SWITCH DUPLEX (15A, +18"O.C. FROM A.F.F, U.N.D)
	CEILING MTD. DUPLEX W/ PHONE/DATA (20A, U.N.D) IN SEPERATE RACEWAYS
	SPECIAL PURPOSE RECEPT. (30A,+18"O.C. A.F.F, U.N.D)
J	JUNCTION BOX (4X4" GALVANIZED STEEL, 18",U.N.D)
	DATA/TELEPHONE OUTLET (+18"O.C. A.F.F, U.N.D) HATCH AREA INDICATES PHONE PROVIDE 3/4"EMT W/ PULL STRING HOMERUN TO 6" ABOVE THE CEILING FOR EACH DEVICE (SINGLE OR COMBO). FACE PLATES, JACKS AND CABLING TO BE BY TENANT
SD	SMOKE DETECTOR
	REMOTE SMOKE DUCT DETECTOR (+72" A.F.F, U.N.D) TEST,RESET,& ANNUNCIATE FOR:POWER,ALARM,&TRBL.
TV	TV, CABLE BOX, SATELLITE BOX CONNECTION OUTLET
	HP RATED DISCONNECT (+60"O.C. A.F.F, U.N.D) NEMA 3R FOR EXTERIOR AND NEMA 1 FOR INTERIOR.
	PANELBOARD (+60" A.F.F O.C OF PNL, U.N.D)
	ELECTRICAL METER (+60" A.F.F O.C OF MTR, U.N.D)

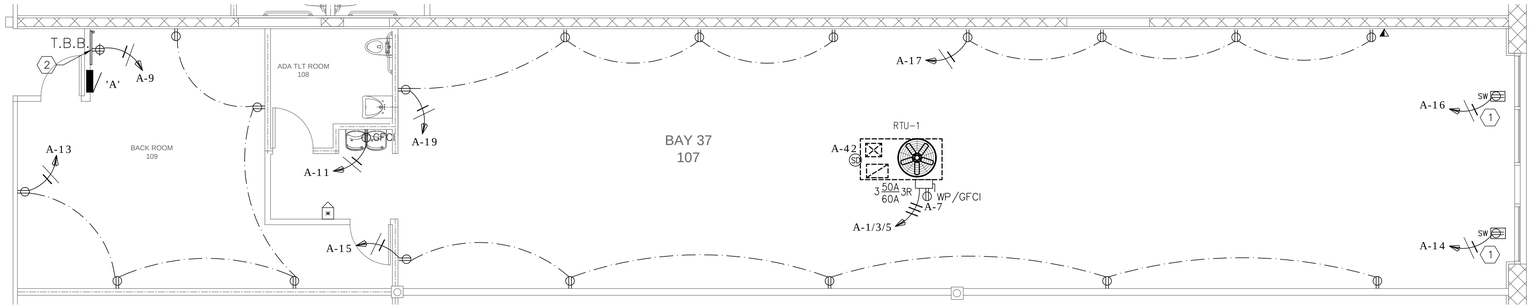
PHASE — INDICATES CIRCUIT LINE
NEUTRAL — INDICATES HOMERUN LINE
ISOLATED GND. — CIRCUIT NUMBER
3 45A 60A (3R) — FUSE SIZE (NEMA RATING) FRAME SIZE NUMBER OF POLES
WIRE IN FREE AIR SUPPORTED TO BLDG. STRUCTURE

LEGEND NOTES

1. NOT ALL SYMBOLS MAY APPEAR ON PLANS.
2. IF THERE IS NO DESIGNATION NEXT TO FIXTURE, THEN ASSUME IT IS A NEW FIXTURE, IF NOT EXISTING, LOCATE IT AS SHOWN ON PLANS.
3. PROVIDE A DISCONNECTING MEANS FOR ALL DOUBLE ENDED FLUORESCENT LAMPS WITH BALLAST AS PER NEC 2011 410.73(G).

DESIGNATION / DESCRIPTION

+84"	DENOTES HEIGHT ABOVE FINISHED FLOOR	UND	UNLESS NOTED DIFFERENTLY
		N/L	NIGHT LIGHT
AFCI	ARC FAULT CIRCUIT INTERRUPT	T/S	TIME SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPT	PC	PHOTO CELL
WP	WEATHER PROOF ENCLOSURE	LC	LIGHTING CONTACTOR
IG	ISOLATED GROUND	MWC	MINIMUM WORK CLEARANCE
N	NEW FIXTURE	OCP	OVER CURRENT PROTECTION
R	RELOCATED FIXTURE	OC	ON CENTER
E	INDICATES AN EXISTING FIXTURE TO REMAIN	EN	EXISTING LOCATION WITH NEW DEVICE
T/L	TWIST LOCK	SW	SHOW WINDOW (OUTLET)



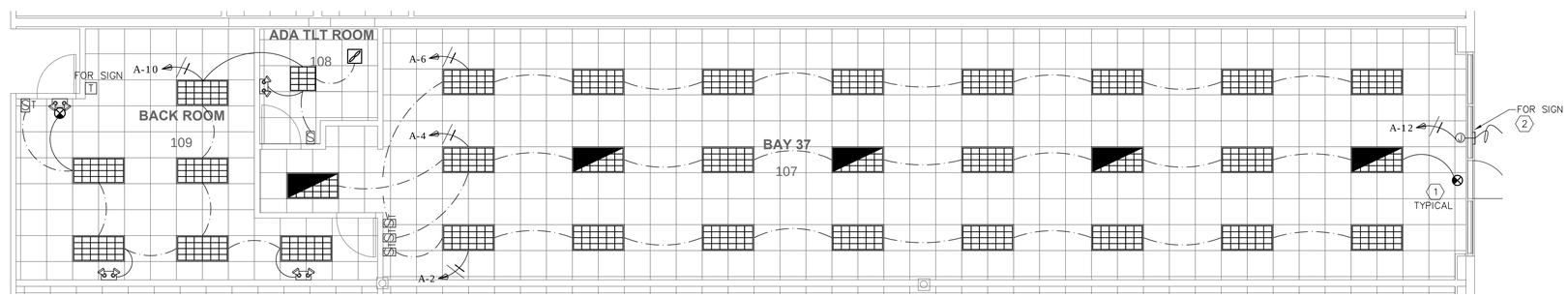
POWER PLAN

scale: 3/16" = 1'-0"

NOTES: #

1. SHOW WINDOWS RECEPTACLE. COORDINATE EXACT LOCATION WITH ARCHITECT / OWNER PRIOR TO ROUGH IN.
2. PROPOSED LOCATION FOR TELECOM BOARD. PROVIDE #6AWG CU GND TO MAIN GROUNDING SYSTEM.
3. TELEPHONE/DATA/CATV NOTE:

AN EMPTY CONDUIT SYSTEM IS PROVIDED TO SERVE FUTURE TENANT SPACES. TENANT SHALL BE RESPONSIBLE AS PART OF THEIR TENANT SPACE FINISH IMPROVEMENT DWGS TO BE SUBMITTED UNDER A SEPARATE PERMIT TO PULL TELEPHONE, DATA AND CABLE TV SERVICE CABLES TO THEIR SPACE/EQUIPMENT FROM THE GROUND FLOOR MAIN TELEPHONE ROOM AS REQUIRED.



LIGHTING PLAN

scale: 3/16" = 1'-0"

KEY NOTES: #

1. CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTS TO LOCAL LIGHT CIRCUIT AHEAD OF ANY SWITCHES OR RELAYS. PROVIDE UNSWITCHED HOT.
2. COORDINATE EXACT LOCATION WITH ARCHITECT / OWNER PRIOR TO BID / ROUGH IN. PROVIDE CONDUIT STUB OUT W/ PULL STRING. RUN CIRCUIT THROUGH TIME SWITCH LOCATED NEXT TO PANEL "A".

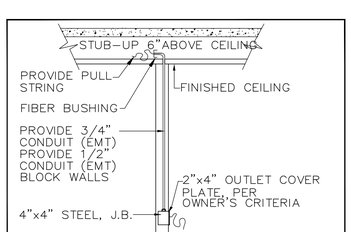
LIGHTING LEVELS PER FBC 2014 Energy Conservation Chapter 4
BUILDING AREA METHOD

BUILDING AREA TYPE	AREA [sq.ft.]	MAX. LPD [VA/sq.ft.]	MAX LP [VA]	LP PROVIDED [VA]	LPD PROVIDED [VA/sq.ft.]
BAY 37 (RETAIL)	2150	1.4	3010	2805	1.3

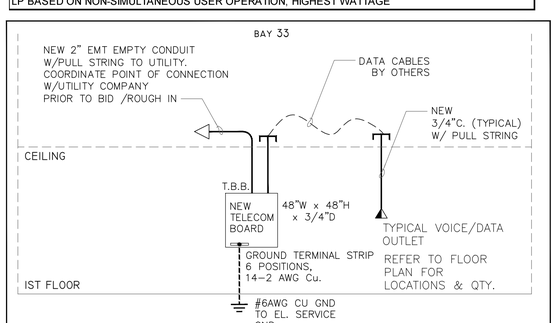
LP - LIGHTING POWER

LPD - LIGHTING POWER DENSITY

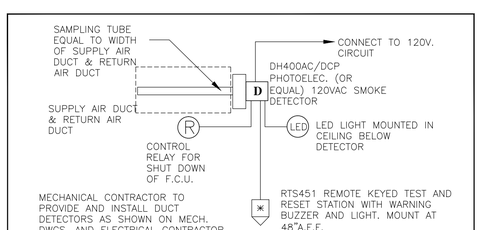
LP BASED ON NON-SIMULTANEOUS USER OPERATION, HIGHEST WATTAGE



LOW VOLTAGE OUTLET DETAIL N.T.S. | 1



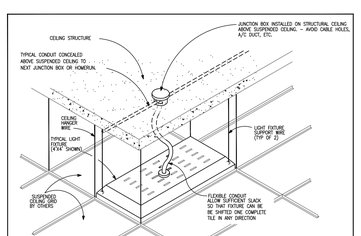
VOICE / DATA RISER DETAIL N.T.S. | 2



MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL DUCT DETECTORS AS SHOWN ON MECH. DWGS, AND ELECTRICAL CONTRACTOR TO CONNECT TO POWER SOURCE.

ALL EQUIPMENT SHALL COMPLY WITH THE LATEST LOCAL CODES AND THE ADA. ALL MODEL NUMBERS ARE BY **EDWARDS SYSTEM TECHNOLOGIES, NOTIFIER OR SIMPLEX** ARE APPROVED EQUALS.

DUCT SMOKE DETECTOR DETAIL N.T.S. | 3



GENERAL LIGHTING FIXTURE POWER CONNECTION DETAIL N.T.S. | 4

NOTES TO CONTRACTOR

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR ACTUAL LOCATIONS OF ALL CEILING LIGHTS AND DEVICES.
- ELECTRICAL DRAWINGS SHALL NOT BE USED TO LOCATE FIXTURES.
- COORDINATE WITH ARCHITECT/CLIENT TYPE AND COLOR OF SWITCH/RECEPTACLE PLATES
- REFER TO ARCHITECT FOR ALL FINAL LOCATIONS/DEVICES PRIOR TO BID/ROUGH IN.

DAN PIENARU LICENSE No. 73022 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dan Pienaru, PE
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STATE OF FLORIDA
date

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PROJECT:

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WESTGATE SHOPPING CENTER
100 N STATE ROAD 7
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INTERIOR IMPROVEMENTS

FINAL CONTRACT DOCUMENTS

PROJECT NUMBER: 2016.00-3
DATE: 06-06-2016
CAD FILE NO:

ADDENDA/REVISIONS

SEAL:

CYNTHIA C. SPRAY, AIA AR-94167

DRAWING TITLE:
ELECTRICAL PLAN

DRAWING NO: E-1