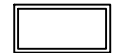










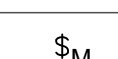
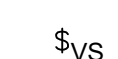

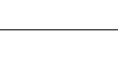



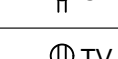

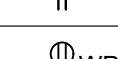



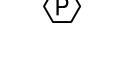
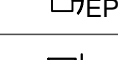

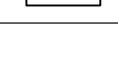


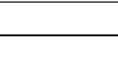
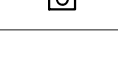






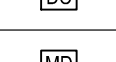
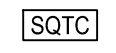
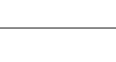




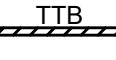
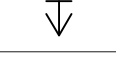





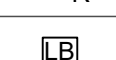



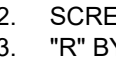
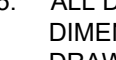


LIGHTING		
	2'x4' LED LIGHT FIXTURE, CEILING MOUNTED.	f
	2'x4' LED LIGHT FIXTURE, CEILING MOUNTED, CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT.	f, k
	1'x4' LED LIGHT FIXTURE, CEILING MOUNTED.	f
	1'x4' LED LIGHT FIXTURE, CEILING MOUNTED, CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT.	f, k
	1'x4' LED LIGHT FIXTURE, WALL MOUNTED.	f
	1'x4' LED LIGHT FIXTURE, WALL MOUNTED, CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT.	f, k
	LED STRIP LIGHT FIXTURE, SUSPENDED.	f
	LED STRIP LIGHT FIXTURE, SUSPENDED, CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT.	f, k
	DOWNLIGHT FIXTURE WITH CEILING OUTLET BOX.	f
	DOWNLIGHT FIXTURE WITH CEILING OUTLET BOX, SURFACE MOUNTED, CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT.	f, k
	EXIT SIGN LIGHT FIXTURE WITH CEILING OUTLET BOX AND EMERGENCY BATTERY. SHADING INDICATES NUMBER OF FACES AND ORIENTATION, ARROWS. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES (OR TO LOCAL EMERGENCY LIGHTING CIRCUIT WHEN AVAILABLE)	f
	OUTLET BOX WITH 20 AMP, 1 POLE, MANUAL MOTOR CONTROLLER WITHOUT OVERLOADS (MSS), RATED 1 HP @ 120V; REFER TO EQUIPMENT FEEDER SCHEDULE.	f
	SINGLE POLE VACANCY SENSOR SWITCH WITH WALL OUTLET BOX. DUAL TECHNOLOGY WITH PASSIVE INFRARED/MICROPHONIC SENSING. MANUFACTURED BY SENSOR SWITCH MODEL #WSX Pdt SA - OR APPROVED EQUAL. LOAD RATING 800W @120V	b, f
	LOW VOLTAGE WALLPAD, WITH WALL OUTLET BOX. BY ACUITY CONTROLS. NIGHT-PDM SERIES. FUNCTION AND NUMBER OF CHANNELS AS NOTED ON PLANS. CONNECTS TO NIGHT LIGHTING CONTROL SYSTEM VIA CAT 5 CABLE. (*a* INDICATES SWITCH-LEG)	b, f
	LOW VOLTAGE OCCUPANCY SENSOR SWITCH, CEILING MOUNTED, DUAL TECHNOLOGY WITH PASSIVE INFRARED/MICROPHONIC SENSING. BY ACUITY CONTROLS nLIGHT #NCM Pdt 10 U.O.N. CONNECTS WITH NIGHT LIGHTING CONTROL SYSTEM VIA CAT 5 CABLE.	
	LOW VOLTAGE COMBINATION DAYLIGHT/OCCUPANCY SENSOR SWITCH, CEILING MOUNTED, DUAL TECHNOLOGY WITH PASSIVE INFRARED/MICROPHONIC AND DAYLIGHT. BY ACUITY CONTROLS nLIGHT #NCM Pdt 10 ADCX, U.O.N. CONNECTS WITH NIGHT LIGHTING CONTROL SYSTEM VIA CAT 5 CABLE.	
	PHOTOCELL (MATCH COIL VOLTAGE AS REQUIRED)	

POWER		
	DUPLEX RECEPTACLE, 20 AMP, WITH FLUSH WALL OUTLET BOX.	a, f
	DUPLEX RECEPTACLE CONNECTED TO ACUITY CONTROLS SWITCHING PACK nPP16, 20 AMP, WITH FLUSH WALL OUTLET BOX.	a, f
	DUPLEX RECEPTACLE, 20 AMP, WITH FLUSH WALL OUTLET BOX.	a, n
	DOUBLE DUPLEX RECEPTACLE, 20 AMPS EACH, WITH TWO-GANG FLUSH WALL OUTLET BOX.	a, f
	GFI DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER BACKSPASH, 20 AMP, WITH FLUSH WALL OUTLET BOX.	f
	WEATHERPROOF GFI DUPLEX RECEPTACLE, 20 AMP, WITH FLUSH WALL OUTLET BOX AND WEATHERPROOF IN-USE COVER.	a, f
	GFI DUPLEX RECEPTACLE, 20 AMP, WITH WALL OUTLET BOX FOR ELECTRIC WATER COOLER. COORDINATE CONCEALMENT WITH EWC INSTALLER FOR MOUNTING REQUIREMENTS.	f
	CAST IRON FULLY ADJUSTABLE THREE-GANG FLOOR OUTLET BOX WITH (2) 20 AMP DUPLEX RECEPTACLES AND (1) TELECOMMUNICATIONS BLANK OUTLET WITH (1) 1" C. TO TTb/TTc (UNLESS OTHERWISE NOTED). PROVIDE CARPET OR TILE FLANGE. (PROVIDE SPECIAL RECEPTACLES, I.E. ISOLATED GROUND TYPE WHERE NOTED)	d, f
	POWER FURNITURE BASE FEED WITH JUNCTION BOX. FLEX CONNECT TO FURNITURE SYSTEM WIREWAY. FIELD VERIFY EXACT CONNECTION POINT WITH FURNITURE VENDOR.	a, f
	FLUSH SHUNT-TRIP BUTTON, LOCATE AND LABEL IN ACCORDANCE WITH A.H.J., MOUNTED 54" TO TOP, UNLESS OTHERWISE NOTED.	f
	DISCONNECT SWITCH. REFER TO EQUIPMENT FEEDER SCHEDULE FOR REQUIREMENTS (I.E. SIZE, FUSED, NON-FUSED, ETC.)	h, j
	120/208V BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED	h, j
	SURGE PROTECTION DEVICE	
	BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. MINIMUM TWO CONDUCTORS PLUS GROUND. REFER TO SPECIFICATIONS AND EQUIPMENT FEEDER SCHEDULE FOR CONDUCTOR REQUIREMENTS. ARROWS INDICATE CIRCUIT CONNECTIONS AND HOMERUNS TO PANEL AS INDICATED ON PLANS. TYPICAL FOR ALL RACEWAY TYPES, U.O.N.	
	BRANCH CIRCUIT CONDUIT CONCEALED BELOW SLAB OR UNDERGROUND	
	CONDUIT RUN UP	
	CONDUIT RUN DOWN	
	CONTROL AND/OR POWER EQUIPMENT CONNECTION.	j

SECURITY AND ACCESS CONTROL		
	CARD ACCESS READER, FLUSH MOUNTED, WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1" C TO SECURITY TERMINAL CONDUIT	b
	ELECTRIC DOOR STRIKE/WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1" C TO SECURITY TERMINAL CONDUIT	d
	MAGNETIC DOOR STRIKE WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1" C TO SECURITY TERMINAL CONDUIT	d
	"REQUEST-TO-EXIT" DOOR RELEASE SWITCH WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1" C TO SECURITY TERMINAL CONDUIT	b
	SECURITY DOOR CONTACT WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1" C TO SECURITY TERMINAL CONDUIT	d
	SECURITY MOTION DETECTOR, WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1" C TO SECURITY TERMINAL CONDUIT	d
	SECURITY TERMINAL CABINET, SURFACE MOUNTED, 28 INCH STRUCTURED MEDIA ENCLOSURE WITH HINGED LOCKABLE COVER.	n

COMMUNICATION AND DATA		
	COMBINATION TELEPHONE/DATA WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE (2) MINIMUM 1" C TO CEILING SPACE, U.O.N.	a
	COMMUNICATION FURNITURE BASE FEED WITH 2-GANG JUNCTION BOX. PROVIDE (2) 1-1/4" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE. FLEX CONNECT TO FURNITURE SYSTEM WIREWAY. FIELD VERIFY EXACT CONNECTION POINT WITH FURNITURE VENDOR.	a
	WIRELESS ACCESS POINT CEILING BOX, FLUSH MOUNTED WITH BLANK PLATE.	a
	TELEPHONE TERMINATION BOARD (OR SYSTEMS TERMINAL BOARD AS NOTED). FIRE RETARDANT TREATED PLYWOOD, 3/4" THICK x 8'-0" HEIGHT x WIDTH AS SHOWN ON PLANS. PAINT TO MATCH WALL WITH (2) COATS OF FIRE RETARDANT PAINT.	
	COMBINATION DATA AND TELEVISION OUTLET, FLUSH MOUNT, STUB INTO CEILING SPACE WITH (2) 1" C.	

FIRE ALARM		
	MANUAL FIRE ALARM PULL STATION.	b
	FIRE ALARM HORN-STROBE COMBINATION DEVICE. (15/75 CANDELA, U.O.N.)	l, m
	FIRE ALARM STROBE. (15/75 CANDELA, U.O.N.)	l, m
	SMOKE DETECTOR. CEILING SURFACE MOUNTED.	
	DUCT MOUNTED SMOKE DETECTOR. (S = SUPPLY; R = RETURN)	
	SMOKE DETECTOR FOR ELEVATOR RECALL. CEILING SURFACE MOUNTED.	
	OUTPUT CONTROL RELAY	
	OUTPUT CONTROL RELAY "AIR HANDLING CONTROL"	
	FIRE DEPARTMENT LOCK BOX (KNOX BOX), WEATHER-PROOF. LOCATE PER AHJ.	
	FIRE ALARM CONTROL PANEL	n
	FIRE ALARM TERMINAL CABINET	n

SYMBOL LEGEND NOTES:

- THE COLOR OF ALL DEVICES SHALL BE SELECTED BY THE ARCHITECT. COVER PLATES SHALL BE #302 SMOOTH STAINLESS STEEL , UNLESS OTHERWISE NOTED.
- SCREENED ELECTRICAL ITEM DENOTES EXISTING.
- "R" BY DEVICE DENOTES EXISTING TO BE REMOVED COMPLETELY.
- "H" BY DEVICE DENOTES DEVICE TO BE MOUNTED HORIZONTALLY.
- ALL DIMENSIONS INDICATED ARE TO THE BOTTOM OF FIXTURE, OUTLET, OR EQUIPMENT AND SHALL BE THE DIMENSIONS USED UNLESS INDICATED OTHERWISE ON THE DRAWINGS. DIMENSIONS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS ARE TO THE BOTTOM OF THE FIXTURE, OUTLET, OR EQUIPMENT UNLESS INDICATED OTHERWISE. ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS. VERIFY AND COORDINATE THE EXACT HEIGHT AND LOCATION OF ALL FIXTURES, OUTLETS, AND EQUIPMENT WITH ALL DOCUMENTS AND DISCIPLINES (I.E. ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION, KITCHEN EQUIPMENT, MILLWORK, ETC.) PRIOR TO ROUGH-IN; ADJUST TO MEET ALL REQUIREMENTS.
- ALL SYMBOLS INDICATED IN THIS LEGEND MAY NOT BE USED ON THE PLANS.
- ALL WIRING DEVICES SHALL BE PROVIDED WITH A GROUNDING TERMINAL SCREW.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- U.O.N. = UNLESS OTHERWISE NOTED.
- A.H.J. = AUTHORITY HAVING JURISDICTION.
- A.F.F. = ABOVE FINISHED FLOOR
- ELECTRICAL CONTRACTOR TO PROVIDE PULL STRINGS IN ALL CONDUIT(S).

REMARKS:

- MOUNTED 16" ABOVE FINISHED FLOOR TO THE BOTTOM.
- MOUNTED 44" ABOVE FINISHED FLOOR TO THE BOTTOM.
- MOUNTED 50" ABOVE FINISHED FLOOR TO THE BOTTOM.
- OUTLET BOX SHALL BE SIZED PER SYSTEM INSTALLERS REQUIREMENTS.
- SUPPORT OUTLET BOX FROM STRUCTURE WITH (1) 3/8" ALL THREADS MINIMUM. BOXES LARGER THAN 25" SQUARE INCHES SHALL BE SUPPORTED WITH (2) 3/8" ALL THREADS MINIMUM.
- JUNCTION/OUTLET BOX SHALL BE SIZED AS REQUIRED FOR CONDUCTOR/DEVICES FILL PER N.E.C.
- THREADED CONDUIT HUBS SHALL BE SIZED AND CONFIGURED AS REQUIRED FOR APPLICATION.
- PROVIDE KINDORF MOUNTING RACK FOR FREE STANDING APPLICATIONS. KINDORF SHALL BE PAINTED FOR EXTERIOR APPLICATIONS.
- WHEN SURFACE JUNCTION BOX SYMBOL IS COMBINED WITH DEVICE SYMBOL, PROVIDE APPROPRIATE SURFACE PLATE FOR OUTLET APPLICATION.
- MAINTAIN WORKING CLEARANCES IN STRICT ACCORDANCE WITH N.E.C. COORDINATE EXACT LOCATION OF EQUIPMENT WITH ALL DISCIPLINES (I.E. ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION, KITCHEN EQUIPMENT, MILLWORK, ETC.) PRIOR TO ROUGH-IN TO MAINTAIN CLEARANCES.
- "NL" INDICATES FIXTURE CONNECTED AHEAD OF ALL SWITCHES FOR 24 HOUR NIGHTLIGHT OPERATION.
- MOUNTED 80" ABOVE FINISHED FLOOR TO BOTTOM.
- ALL STROBES SHALL BE ADJUSTABLE INTENSITY TYPE SET AT 75cd UNLESS OTHERWISE NOTED.
- MOUNTED 72" ABOVE FINISHED FLOOR TO THE TOP.

GENERAL NOTES:

- ALL 120V, 20A CIRCUIT HOMERUNS OVER 50FT. SHALL BE #10 CU. MINIMUM, UNLESS NOTED OTHERWISE.
- ALL 120V, 20A CIRCUIT HOMERUNS OVER 150FT. SHALL BE #8 CU. MINIMUM, UNLESS NOTED OTHERWISE.
- ALL BRANCH CIRCUIT CONDUCTORS WILL BE SIZED PER NEC MINIMUM. THE MINIMUM ALLOWABLE BRANCH CIRCUIT CONDUCTOR SIZE IS #12 AWG COPPER. INCREASE CONDUCTOR SIZE FOR APPLICATION PER NEC AND AS NOTED ON THE PLANS.
- CONDUCTOR SIZES INDICATED ON CIRCUIT HOMERUNS OR IN SCHEDULES SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- UP TO THREE PHASE CONDUCTORS, CORRESPONDING SWITCHLEGS AND NEUTRALS ARE ALLOWED IN THE SAME RACEWAY UNLESS INDICATED OTHERWISE ON THE DRAWINGS. DO NOT COMBINE HOMERUNS.
- PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUITS.
- COMPLY WITH ARTICLE 210 OF THE NEC. PROVIDE A DEDICATED NEUTRAL FOR ALL 120V AND 277V CIRCUITS OR PROVIDE C.B. HANDLE TIES TO CONNECT POLES SERVING MULTI-WIRE CIRCUITS.
- COORDINATE EXACT LOCATION OF LIGHTING FIXTURES IN MECH. ROOMS/SPACES WITH DUCTWORK INSTALLER PRIOR TO ROUGH-IN. LOCATE BELOW DUCTWORK (8'-0" AFF MINIMUM) CENTERED IN ROOM AS MUCH AS POSSIBLE.
- COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS, APPROVED SHOP DRAWINGS AND MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRINGS IN THEM.
- ALL COMPUTER RECEPTACLE CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL FOR EACH PHASE CONDUCTOR.
- COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT, (I.E. MOTORS, HVAC EQUIPMENT, SPECIAL PURPOSE OUTLETS, OWNER FURNISHED EQUIPMENT ETC.) WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER REPRESENTATIVES PRIOR TO ORDERING PANELBOARDS. BREAKERS SHALL BE SIZED PER THE NEC, THE EQUIPMENT NAME PLATE AND MANUFACTURERS RECOMMENDATIONS.
- THE POWER COMPANY SHALL BE CONTACTED WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT BY THE CONTRACTOR TO VERIFY THE ACTUAL AVAILABLE SHORT CIRCUIT FAULT CURRENT (SCC) AT THE TRANSFORMER SECONDARY BUSHINGS. THE CONTRACTOR SHALL PROVIDE ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT AND PANELBOARDS WHICH HAVE AIC/WITHSTAND RATINGS GREATER THAN THE AVAILABLE SSC AT EACH POINT IN THE ELECTRICAL SYSTEM.
- CONTRACTOR SHALL INCLUDE IN HIS BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL RULES, REGULATIONS AND GUIDELINES APPLICABLE.
 - CONTRACTOR SHALL COMPLY FULLY WITH FLORIDA STATUTE 403.7186 REGARDING MERCURY CONTAINING DEVICES AND LAMPS.
 - LAMPS, BALLASTS AND OTHER MATERIALS SHALL BE TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH ALL DEP AND EPA GUIDELINES.
 - THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT ALL MATERIALS WHERE RECYCLED OR DISPOSED OF PROPERLY PER THE GUIDE LINE NOTED ABOVE.
- EXISTING CONDITIONS AND UTILITIES INDICATED ARE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS, VARIOUS SURVEYS AND FIELD INVESTIGATIONS. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED A PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
- LOCATE ALL EXISTING UTILITIES AND PROTECT THEM FROM DAMAGE.
- ALL CONDUIT TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E. EXPOSED STRUCTURAL CEILINGS, BUILDING EXTERIOR WALLS). CONCEAL ALL CONDUITS ABOVE CEILINGS OR WITHIN WALLS AND COUNTERS.
 - ALL NEW DEVICES TO BE FLUSH MOUNTED UNLESS SPECIFICALLY NOTED OTHERWISE.
 - INSTALL FLEXIBLE CONDUIT DOWN EXISTING WALLS TO NEW FLUSH OUTLETS. (IF EXISTING WALLS DO NOT CONTAIN HOLLOW VERTICAL CAVITIES AND IT IS NOT FEASIBLE TO CONCEAL THE CONDUIT THEN EXPOSED WIREMOLD PAINTED TO MATCH THE WALL SHALL BE USED).
- EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION.
- PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT.

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	VOLTS	INPUT WATTS	SOURCE	DIMMING	COMMENTS
LS	LINEAR DIRECT-INDIRECT SUSPENDED FIXTURE	BIRCHWOODHL	LED-475-HLO-SLO-35-X-CRX-SC-FW-XXX-D1-CSS-XX-300PENDED	SUSPENDED	120	72	LED, 3500K	0-10V	DUAL CIRCUIT WIRING
M	ELEVATOR PIT LIGHT	BEGHELLI	BS100LED-4-HIT-MO-WT40-120-277V-SM	SURFACE	120	60	LED, 4000K		WIRED TO INVERTER
PC	DECORATIVE PENDANT	DELRAY	6724-S-W35-CR-D	SUSPENDED	120	93	LED, 3500K	0-10V	REMOTE DRIVER NO SUBSTITUTION
PH	SUSPENDED LED HIGH BAY FIXTURE	BEGHELLI	BS730LED-W735-WBD-16ACT-AC-120-277V	SUSPENDED	120	35	LED, 3500K	0-10V	
R1	RECESSED 4" DOWNLIGHT	LIGHOLIER	4R-N / Z4RDL-XX-835-W-O-CD-Z10-U	RECESSED	120	20	LED, 3500K	0-10V	
R2	2X4 RECESSED PERFORMANCE FULL LENSE	DAY-BRITE	2-CA-G-40B-835-4-DS-UNV-DIM-OSC	RECESSED	120	34	LED, 3500K	0-10V	
RD	SEMI-RECESSED DECO DOWNLIGHT	DELRAY	KLS31-2-W35-D-XXX	RECESSED	120	22	LED, 3500K		NO SUBSTITUTIONS
S2	2' SURFACE LENSED STRIP LIGHT	DAY-BRITE	FSS-2-20L-835-UNV-DIM	WALL	120	34	LED, 45W, 3500K		
S4	4' SURFACE LENSED STRIP LIGHT	DAY-BRITE	FSS-4-55L-835-UNV-DIM-FSTH	SUSPENDED	120	34	LED, 45W, 3500K		
SG	4' LENSED STRIP LIGHT WITH WIRE GUARD	DAY-BRITE	FSS-4-55L-835-UNV-DIM-FSSWG4	WALL	120	34	LED, 45W, 3500K		
WL	WALL MOUNT UP/DOWN 4"	FINELITE	HP-4 WM ID-4-S-S-835-TG-F-120V-MB-FE-XX	WALL	120	65.6	LED, 3500K		
EXTERIOR LIGHTING									
EC	SURFACE SHALLOW WET CYLINDER	MP	L600-13-W35-S-X-S-XXXV-MA-INTDVR	SURFACE	120	7.5	LED, 4000K	N/A	INTEGRAL DRIVER, 4.75" MAX HT
ED	RECESSED ADJUSTABLE WET DOWNLIGHT	WILLIAMS	44R-LXX-8-40-DIM-UNV- / L-X-OF-CS-WET/CC	RECESSED	120	49	LED, 4000K	N/A	
EP	EXTERIOR SITE FIXTURE	GARDOCO	ECF-L-80-1A-NW-SF-3-UNV-BL-OMPR-BK	POLE	120	265	LED		
ES	EXTERIOR WALL SCONCE UP/DOWNFRONT	LUMICA	LU-WP-A40K-B40K-C40K-LXX-00-XX-BK-SGP10	SURFACE	120	38.5	LED, 4000K	N/A	
ES1	EXTERIOR RECESSED EGRESS	B-K	B-S5-LED-E102-AX-WHP-B-UPMRM	RECESSED WALL	120	5	LED		REMOTE DRIVER NO SUBSTITUTIONS
EW	EXTERIOR LED WALL LIGHT FIXTURE	TGS	WPF-70W-40K-U-120-277VAC-D	SURFACE	120	70	LED, 4000K	N/A	
EMERGENCY LIGHTING									
XE	UNIVERSAL EXIT SIGN WITH BATTERY	BEGHELLI	VA-4-SA	SURFACE	120	3.2	LED	N/A	
LIGHTING SCHEDULE NOTES:									
THE SPECIFIED FIXTURES HAVE BEEN SELECTED BASED ON PHOTOMETRIC PERFORMANCE, ELECTRICAL CHARACTERISTICS, VISUAL COMFORT AND AESTHETIC INTERPRETATION AND AS SUCH ANY CONTRACTOR WISHING TO PROPOSE ALTERNATE FIXTURES MUST SUBMIT SUCH REQUEST, IN WRITING, FIFTEEN (15) WORK DAYS PRIOR TO BID. THE REQUEST SHALL INCLUDE TWO COMPLETE SETS OF COLOR CATALOG CUT SHEETS OF ALL FIXTURES FOR REVIEW. IN MANY CASES, SAMPLING WILL BE REQUIRED. APPROVALS SHALL ONLY BE ISSUED BY THE ARCHITECT IN THE FORM OF AN ADDENDUM TO THE BID DOCUMENTS. IF ANY VALUE ENGINEERING IS REQUIRED AFTER THE BIDDING PROCESS, ANY AND ALL CHANGES IN FIXTURE MODELS WILL BE PROVIDED SOLELY BY THE ARCHITECT AS A VARIATION TO THE ORIGINAL SPECIFICATIONS.									



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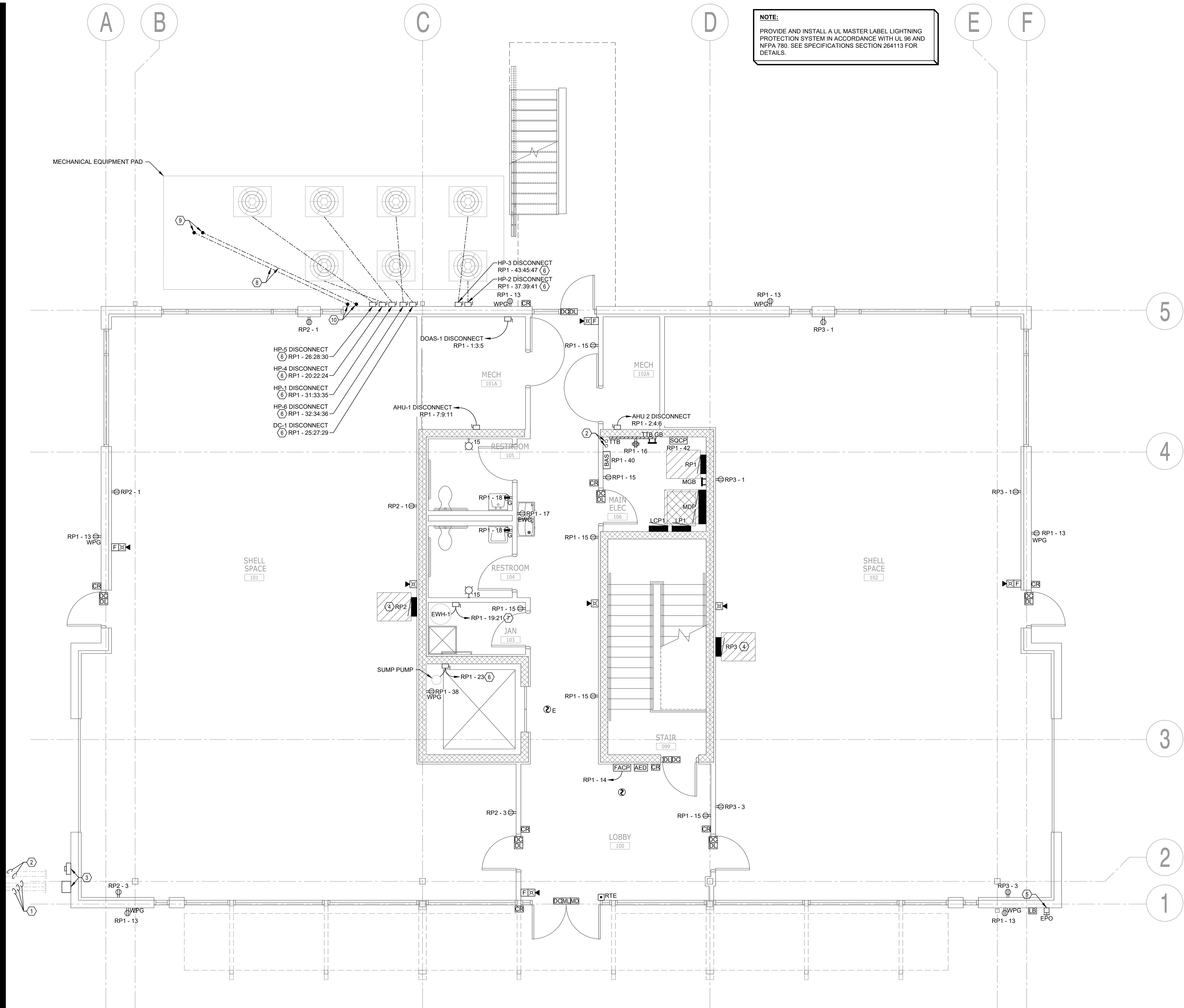
SYMBOL LEGEND - ELECTRICAL

ERAU PRODUCTION BUILDING

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FLORIDA

Date 12/20/2019
Job no. 2019-5743
Sheet no. E1.001

ISSUE FOR BID - 12/20/2019



NOTE:
PROVIDE AND INSTALL A UL MASTER LABEL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH UL 96 AND NFPA 780. SEE SPECIFICATIONS SECTION 284113 FOR DETAILS.

GENERAL NOTES

1. SEE EQUIPMENT FEEDER SCHEDULE ON SHEET E1.401 FOR DISCONNECT SWITCH INFORMATION.
2. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R RATED.

REFERENCE NOTES

1. INTERCEPT AND REROUTE THREE 4 INCH EXISTING CONDUITS FROM THE UTILITY TRANSFORMER TO CT CABINET.
2. INTERCEPT AND REROUTE TWO 3 INCH EXISTING CONDUITS FROM THE COMMUNICATIONS PULL BOX TO THE TTB.
3. INSTALL CT CABINET AND METER BASE. SEE DETAIL 4 ON SHEET E1.501 FOR DETAILS.
4. INSTALL A 24 INCH X 6 INCH X 6 INCH NEMA 1 WIREWAY ABOVE THE PANEL USING THREE 3 INCH CONDUIT NIPPLES.
5. INSTALL PANEL MDP SHUNT TRIP. PROVIDE A PERMANENT PLAQUE IN ACCORDANCE WITH AHJ AND 225.37, NEC 2014 IDENTIFYING THE BUTTON AS "MAIN POWER SHUNT TRIP".
6. INSTALL 240VAC SAFETY SWITCH IN A NEMA 3R ENCLOSURE. SEE EQUIPMENT FEEDER SCHEDULE ON SHEET E1.401 FOR SWITCH RATINGS. ROUTE CONDUIT FROM SWITCH TO LOAD BELOW GRADE.
7. INSTALL 240VAC SAFETY SWITCH IN A NEMA 1 ENCLOSURE. SEE EQUIPMENT FEEDER SCHEDULE ON SHEET E1.401 FOR SWITCH RATINGS.
8. INSTALL SPARE 2 INCH PVC CONDUIT 24 INCHES BELOW GRAD FOR FUTURE USE.
9. STUB UP AND CAP CONDUIT FLUSH WITH EQUIPMENT PAD SURFACE.
10. STUB UP AND CAP CONDUIT 6 INCHES ABOVE GRADE.

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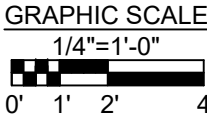
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321-872-8446 AR0017645
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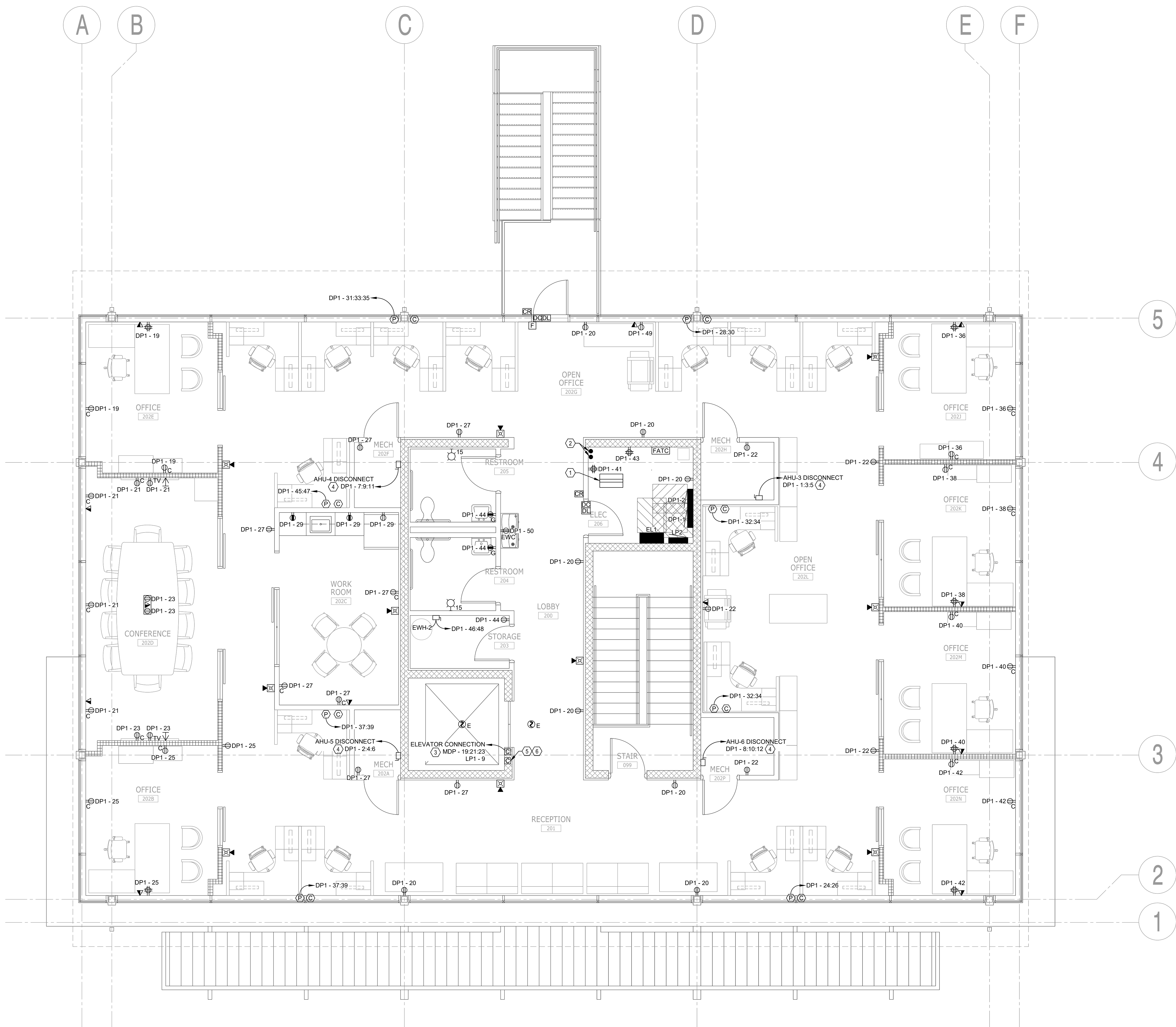
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FLOOR PLAN - FIRST FLOOR - PWR & SYSTEMS
ERAU PRODUCTION BUILDING
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FLORIDA
Date: 12/20/2019
Job no.: 2019-5743
Sheet no.: **E1.101**

ISSUE FOR BID - 12/20/2019

1 FLOOR PLAN - FIRST FLOOR - POWER AND SYSTEMS
E1.101/ 1/4"=1'-0"





1 FLOOR PLAN - SECOND FLOOR - POWER AND SYSTEMS
E1.102 1/4"=1'-0"

GRAPHIC SCALE
1/4"=1'-0"
0' 1' 2' 4'

GENERAL NOTES

1. SYSTEMS FURNITURE CONNECTION POINTS ARE APPROXIMATE, COORDINATE FINAL INSTALLATION WITH FURNITURE VENDOR PRIOR TO INSTALLATION.
2. COORDINATE FLOOR BOX LOCATIONS WITH APPROVED FURNITURE SHOP DRAWINGS.
3. CONFIGURE SYSTEMS FURNITURE WIRING SO NO LESS THAN 25% OF SYSTEMS FURNITURE OUTLETS SHALL BE CONTROLLED. SEE SHEET E1.403 FOR DETAILS.
4. SEE EQUIPMENT FEEDER SCHEDULE ON SHEET E1.401 FOR DISCONNECT SWITCH INFORMATION.

REFERENCE NOTES

1. SPACE ALLOCATION FOR 42U TWO POST IT RACK TO BE PROVIDED AND INSTALLED BY OTHERS.
2. INSTALL TWO 4 INCH CONDUIT SLEEVES TO THE FIRST FLOOR ELECTRICAL ROOM.
3. CONNECT CONDUITS TO TOP OF ELEVATOR CONTROLLER PANEL LOCATED IN ELEVATOR ENTRANCE. COORDINATE WITH ELEVATOR CONTRACTOR FOR FINAL LOCATION OF CONNECTION POINTS.
4. INSTALL 240VAC SAFETY SWITCH IN A NEMA 1 ENCLOSURE. SEE EQUIPMENT FEEDER SCHEDULE ON SHEET E1.401 FOR SWITCH RATINGS.
5. INSTALL 1 INCH CONDUIT FROM ELEVATOR CONTROLLER TO TTB IN ROOM 106 FOR ELEVATOR PHONE.
6. INSTALL 1 INCH CONDUIT FROM ELEVATOR CONTROLLER TO FACP.



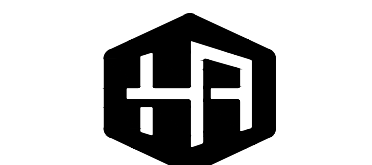
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FLOOR PLAN - SECOND FL - PWR & SYSTEMS

ERAU PRODUCTION BUILDING

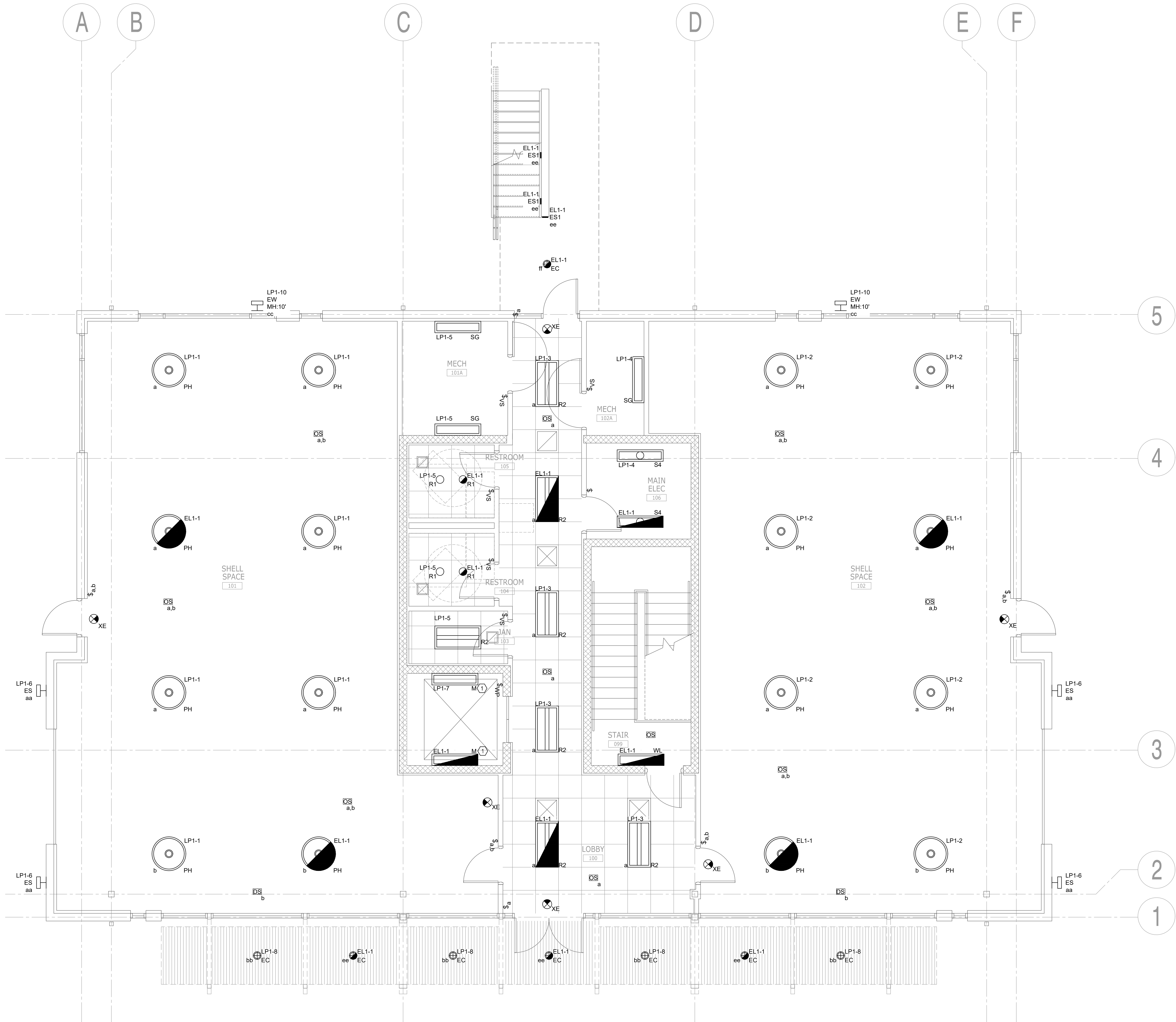
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Date 12/20/2019

Job no. 2019-5743

Sheet no.

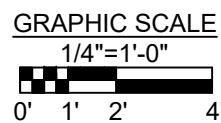
E1.102



1
E1.201

FLOOR PLAN - FIRST FLOOR - LIGHTING

1/4"=1'-0"



GENERAL NOTES

1. ALL 120VAC NORMAL POWER LIGHTING CIRCUITS ARE FED FROM PANEL LP1.
2. ALL 120VAC EMERGENCY/LIFE SAFETY LIGHTING CIRCUITS ARE FED FROM EM LIGHTING INVERTER PANEL EL1.
3. CONTRACTOR TO PROVIDE AND INSTALL ALL COMPONENTS AND CABLING NECESSARY FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. SEE LIGHTING CONTROL DIAGRAMS ON SHEET E1.403.

REFERENCE NOTES

- ① INSTALL VAPOR-TIGHT FIXTURES IN ELEVATOR PIT



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FLOOR PLAN - FIRST FLOOR - LIGHTING

ERAU PRODUCTION BUILDING

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FLORIDA

Date 12/20/2019
Job no. 2019-5743

Sheet no.

E1.201



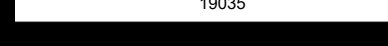
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FLOOR PLAN - SECOND FL - LIGHTING

ERAU PRODUCTION BUILDING
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FLORIDA

E1.202

- | REVISION | DATE |
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PANEL FEEDER SCHEDULE

JOB NUMBER: 19035				DATE: 10/18/19									
FEEDER FEEDING	CIRCUIT BREAKER			FEEDER CAPACITY	FEEDER LENGTH	FEEDER VOLT DROP %	FEEDER						
	AMP SIZE	VOLTS	PHASE				PARALLEL RUNS	PHASE WIRE	NEUTRAL WIRE	GROUND WIRE	ISOLATED GROUND	COPPER/ ALUMINUM	CONDUIT SIZE
MDP	800	208	3	840	265	1.77	2	#600	#600	N/A	N/A	COPPER	4"
DP1	400	208	3	420	20	0.13	1	#600	#600	#3	N/A	COPPER	4"
RP1	225	208	3	230	8	0.08	1	#40	#40	#4	N/A	COPPER	2-1/2"
RP2	225	208	3	230	36	0.34	1	#40	#40	#4	N/A	COPPER	2-1/2"
RP3	225	208	3	230	20	0.19	1	#40	#40	#4	N/A	COPPER	2-1/2"
LP1	100	208	3	100	10	0.17	1	#3	#3	#8	N/A	COPPER	1-1/4"
LP2	100	208	3	100	10	0.17	1	#3	#3	#8	N/A	COPPER	1-1/4"
EL1	20	120	1	20	3	0.16	1	#12	#12	#12	N/A	COPPER	1/2"

EQUIPMENT FEEDER SCHEDULE

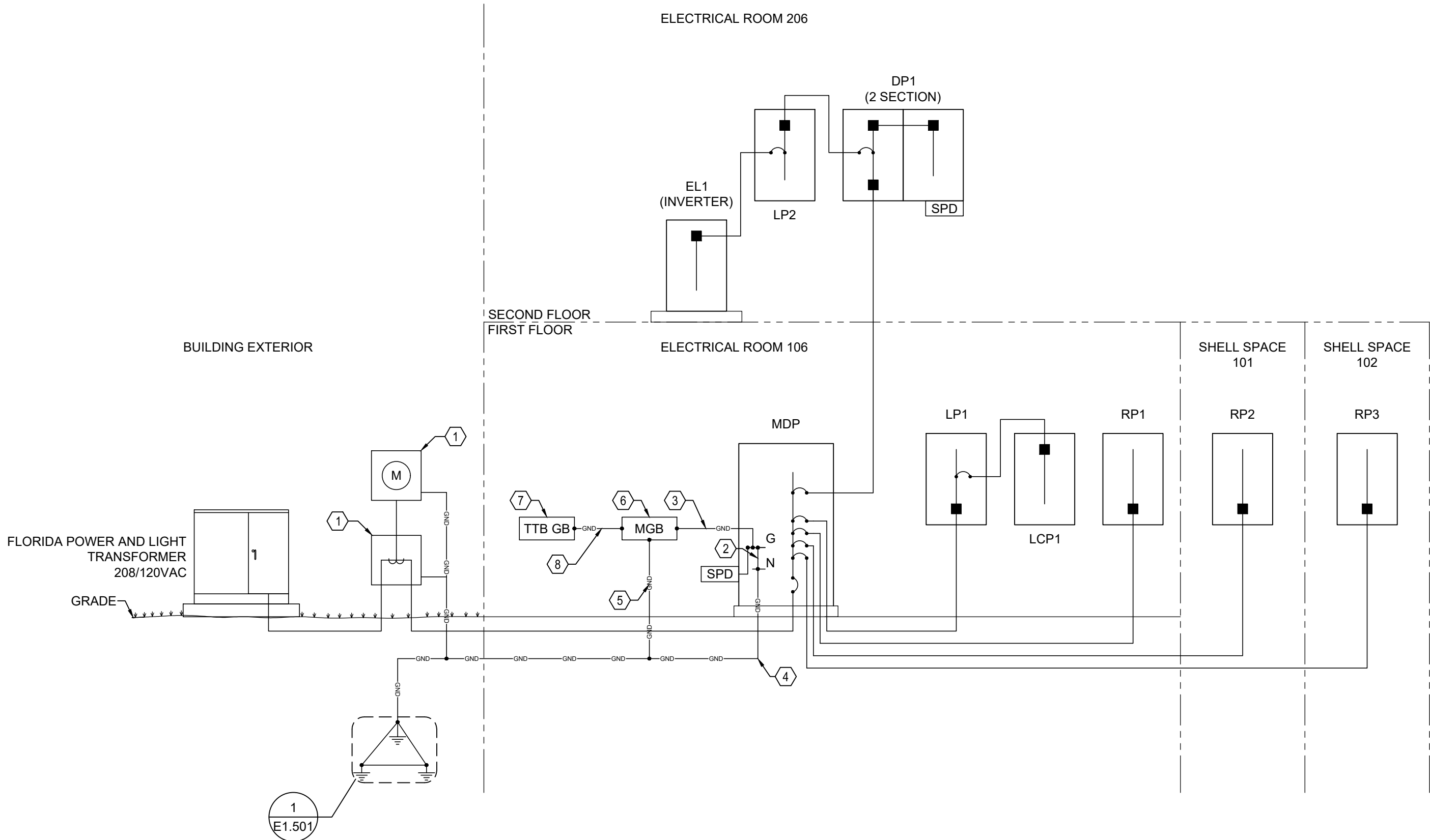
JOB NUMBER: 19035														DATE: 12/20/19							
EQUIPMENT DESCRIPTION	VOLTS	PH	NEUT Y OR N	MOTOR (LARGEST)		ADDITIONAL MOTORS		HEATER OR LIGHTING LOAD		MISC AMPS	TOTAL AMPS	PNL. C.B. SIZE AMPS	DISCONNECT SIZE AMPS	FUSE SIZE AMPS	VOLTAGE DROP	WIRE PER PHASE	NEUT WIRE	GND WIRE	# OF RUNS	CONDUIT SIZE	NOTES
				H.P.	FLA	H.P.	FLA	KW	AMPS												
DOAS-1	208	3	Y							42.0	42	50	60	N.F.	0.58%	#6	#6	#10	1	1"	
AHU-1	208	3	Y							37.0	37	40	60	N.F.	0.65%	#8	#8	#10	1	1"	
AHU-2	208	3	Y							37.0	37	40	60	N.F.	0.54%	#8	#8	#10	1	1"	
AHU-3	208	3	Y							36.0	36	40	60	N.F.	0.31%	#8	#8	#10	1	1"	
AHU-4	208	3	Y							36.0	36	40	60	N.F.	0.82%	#8	#8	#10	1	1"	
AHU-5	208	3	Y							36.0	36	40	60	N.F.	0.97%	#8	#8	#10	1	1"	
AHU-6	208	3	Y							37.0	37	40	60	N.F.	0.69%	#8	#8	#10	1	1"	
DC-1	208	3	Y							5.0	5	15	20	9	0.19%	#12	#12	#12	1	1/2"	
HP-1	208	3	Y							21.0	21	35	60	N.F.	0.31%	#8	#8	#10	1	1"	
HP-2	208	3	Y							21.0	21	35	60	N.F.	0.31%	#8	#8	#10	1	1"	
HP-3	208	3	Y							18.0	18	30	30	N.F.	0.43%	#10	#10	#10	1	3/4"	
HP-4	208	3	Y							18.0	18	30	30	N.F.	0.43%	#10	#10	#10	1	3/4"	
HP-5	208	3	Y							18.0	18	30	30	N.F.	0.45%	#10	#10	#10	1	3/4"	
HP-6	208	3	Y							21.0	21	35	60	N.F.	0.34%	#8	#8	#10	1	1"	
EF-1	120	1	Y	0.25	5.80					6	20	20	20	N.F.	0.58%	#12	#12	#12	1	1/2"	
EWH-1	208	1	Y					4.5	21.6		22	30	30	N.F.	0.80%	#10	#10	#10	1	1/2"	
EWH-2	208	1	Y					4.5	21.6		22	30	30	N.F.	0.80%	#10	#10	#10	1	1/2"	
ELEVATOR	208	1	Y							78.7	79	175	N/A	N/A	0.47%	#20	#20	#6	1	2"	a
SUMP PUMP	120	1	Y	0.50	9.80					10	20	20	20	N.F.	1.06%	#12	#12	#12	1	1/2"	

GENERAL NOTES:
(1) - PROVIDE DISC. SW. AT ALL PIECES OF EQUIPMENT, UNLESS OTHERWISE NOTED ON THIS SCHEDULE.
(2) - C.B., STARTER, DISC. & FUSE SIZES SHOWN FOR REFERENCE ONLY. SIZE AS RECOMMENDED BY EQUIPMENT MANUFACTURER. VERIFY REQUIREMENTS WITH APPROVED EQUIPMENT SHOP DRAWINGS.
(3) - PROVIDE NEMA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SWS MOUNTED OUTDOORS.
(4) - COORDINATE STARTER TYPE WITH EQUIPMENT PROVIDER.
(5) - E.C. TO VERIFY THAT C.B.'S FOR MOTORS ARE SUFFICIENT TO ALLOW STARTING OF MOTOR, IF REQUIRED FOR STARTING C.B. TO BE INCREASED TO A MAX OF 225% OF LARGEST MOTOR F.L.A.
(6) - INCREASE CONDUCTOR SIZES AS REQUIRED TO MAINTAIN A MAXIMUM OF 3% VOLTAGE DROP BASED ON ACTUAL CIRCUIT LENGTHS AS INSTALLED.
(7) - TOTAL AMPS SHOWN DO NOT INCLUDE NON-COINCIDENTAL LOADS.
(8) - VOLTAGE DROP BASED ON POWER FACTOR OF 0.85.

ABBREVIATIONS:
MCP = MOTOR CIRCUIT PROTECTOR C.B.
MMS = MAN. MTR. STARTER 20A SW. WITH O.L. AND PILOT
MSS = MOTOR STARTING 20A SW. WITHOUT O.L.
VFD = VARIABLE FREQ. DRIVE UNIT.
CBMC = COMB. DISC(MCP) AND MAG. MOTOR STARTER(MMC)
MMC = MAGNETIC MOTOR CONTROLLER W/O.L.

N.F. = NON-FUSED
O.L. = THERMAL OVER LOAD ELEMENT
I = NEMA I ENCLOSURE
3R = NEMA 3R ENCLOSURE
4SS = NEMA 4 STAINLESS STEEL ENCL.

NOTES:
(a) - ELEVATOR CONTROLLER EQUIPPED WITH 175A CIRCUIT BREAKER



1 RISER DIAGRAM
E1.401 NOT TO SCALE

GENERAL NOTES

- SEE SPECIFICATIONS SECTIONS 260519 AND 260533 FOR CONDUCTOR AND CONDUIT INFORMATION.
- COORDINATE TRANSFORMER REQUIREMENTS WITH BEVERLY HUTTO OF FLORIDA POWER AND LIGHT, 386-322-3439.

REFERENCE NOTES

- CONTRACTOR TO PROVIDE METER BASE, CT CABINET, AND CONDUIT FROM TRANSFORMER SECONDARY CABINET TO METER BASE. SEE METER DETAILS ON SHEET E1.501.
- BOND NEUTRAL AND GROUND BUSES IN PANEL MDP USING #3/0 AWG BARE COPPER CONDUCTOR.
- BOND PANEL MDP EQUIPMENT GROUND TO MGB USING #1/0 AWG BARE COPPER CONDUCTOR.
- BOND MDP NEUTRAL BUS TO MAIN SERVICE GROUND USING #3/0 AWG BARE COPPER CONDUCTOR.
- BOND MGB TO MAIN SERVICE GROUND USING #3/0 AWG BARE COPPER CONDUCTOR.
- SEE DETAIL ON SHEET E1.501 FOR MGB DETAILS.
- SEE DETAIL ON SHEET E1.501 FOR TTB GB DETAILS.
- BOND TTB GB TO MGB USING #4 STRANDED CU. INSULATED GND. CONDUCTOR



Expect a difference
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RISER DIAGRAM & SCHEDULES - ELEC.

ERAU PRODUCTION BUILDING
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FLORIDA

Date 12/20/2019
Job no. 2019-5743
Sheet no.

E1.401

REVISION DATE
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1. PROVIDE SURGE SUPPRESSION TO 120V AND ALL LOW VOLTAGE CIRCUITS LEAVING AND/OR ENTERING THE BUILDING(S).
2. ALL CABLES BELOW GRADE LEVEL SHALL BE RATED FOR WET LOCATION USE.
3. SECONDARY POWER SUPPLY CAPACITY SHALL BE 24 HOURS, STAND-BY WITH 15 MINUTES OF ALARM. BATTERY BACK-UP SHALL NOT BE LOADED MORE THAN 80%.
4. NOTIFICATION APPLIANCE CIRCUITS SHALL NOT BE LOADED MORE THAN 80% OF ITS LISTED OUTPUT.
5. VOLTAGE DROP ON ALL CIRCUITS SHALL BE NO GREATER THAN 5%.
6. VERIFY FINAL LOCATIONS OF DUCT SMOKE DETECTORS WITH MECHANICAL CONTRACTOR.
7. PROVIDE #6 GROUND CONDUCTOR FROM MAIN GROUND BUS BAR TO EACH EQUIPMENT PANEL AND TERMINAL.
8. REFER TO FLOOR PLANS AND SITE PLANS FOR ACTUAL FIRE ALARM DEVICE LOCATION AND QUANTITY.
9. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT.
10. ALL WORK SHALL CONFORM TO THE FLORIDA ADMINISTRATIVE CODE (FAC) 61G15-32.008.
11. DEVICE QUANTITIES ARE DIAGRAMMATIC ONLY. FINAL DEVICE QUANTITIES AND LOCATIONS IDENTIFIED IN SHOP DRAWINGS.



2 FIRE ALARM INPUT/OUTPUT MATRIX



SSUE FOR BID - 12/20/2019

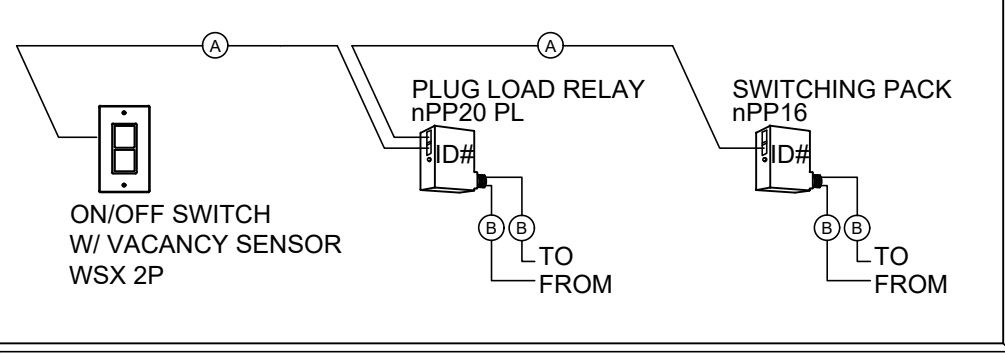
WIRE LEGEND

- A— CAT 5e
(LOW VOLTAGE)
- B— CLASS 1
(LINE VOLTAGE)

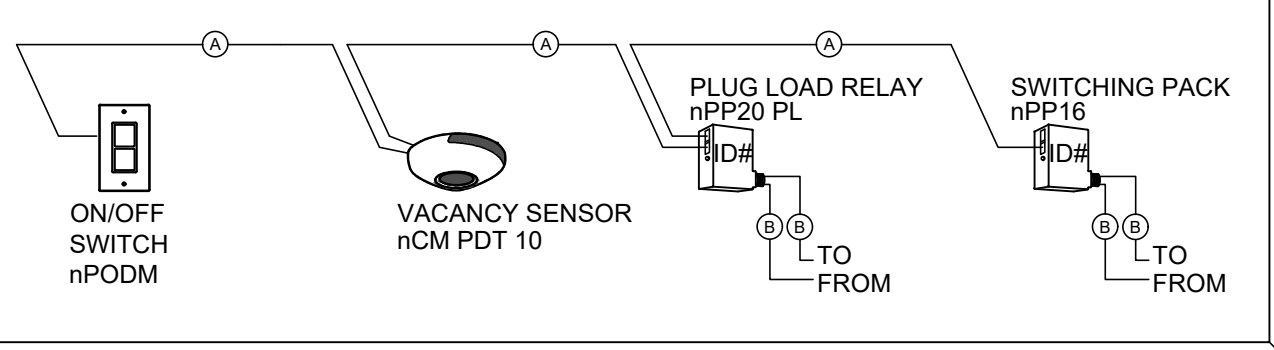
NOTE: PROVIDE EMERGENCY
LIGHTING OVERRIDE POWER/RELAY
PACK AS REQUIRED IN ALL AREAS
WITH EMERGENCY FIXTURES.

ALL LIGHTING CONTROL PRODUCTS
ARE MANUFACTURED BY "ACUITY
CONTROLS". SUBSTITUTIONS ARE
ALLOWED (SUBJECT TO APPROVAL).

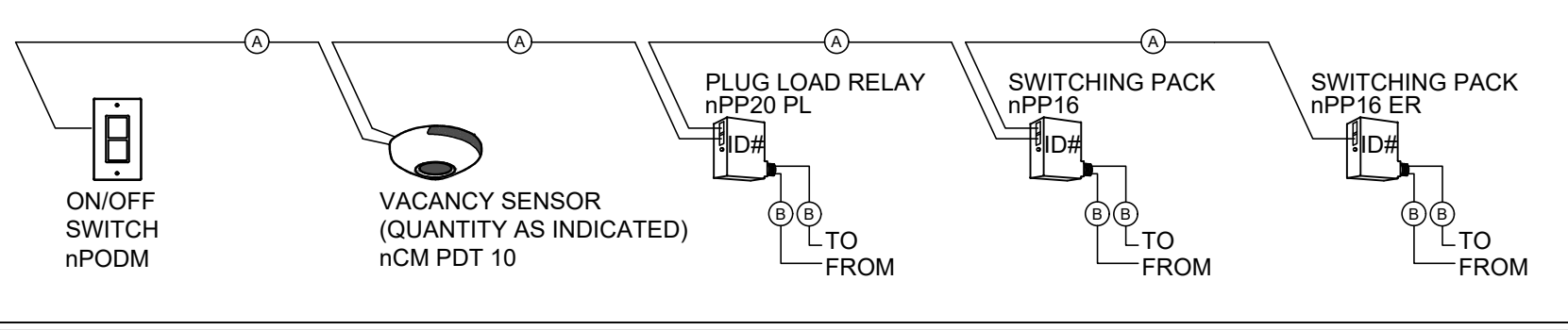
TYPICAL OFFICE



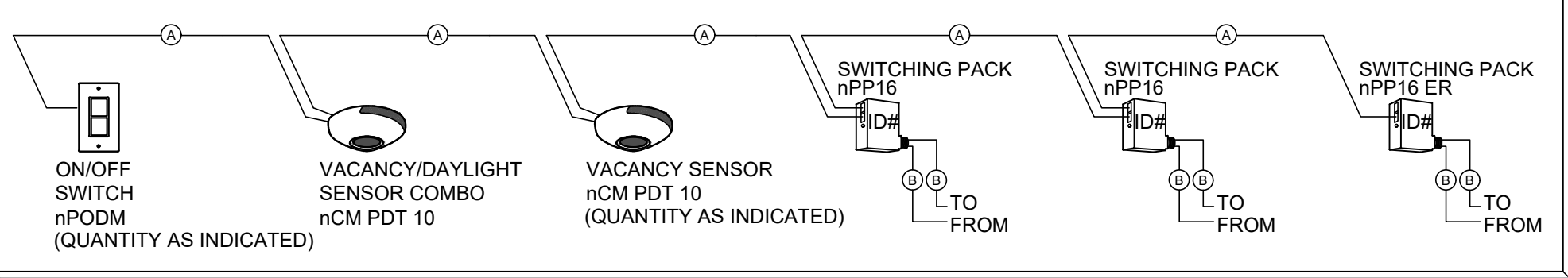
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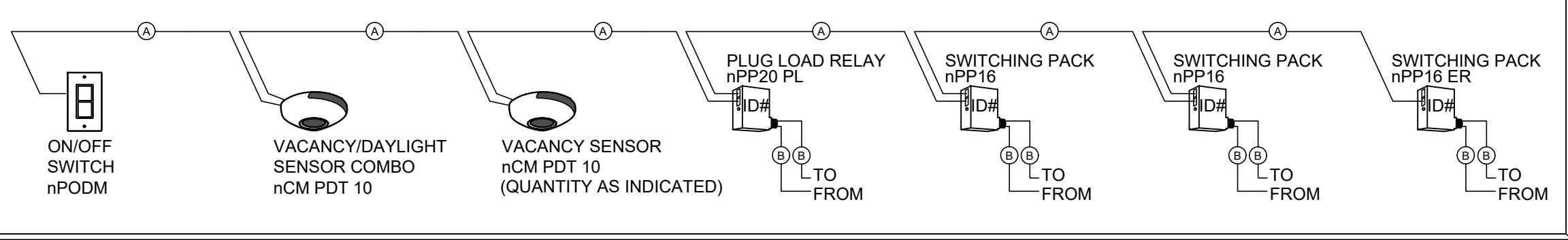
OPEN OFFICE 202



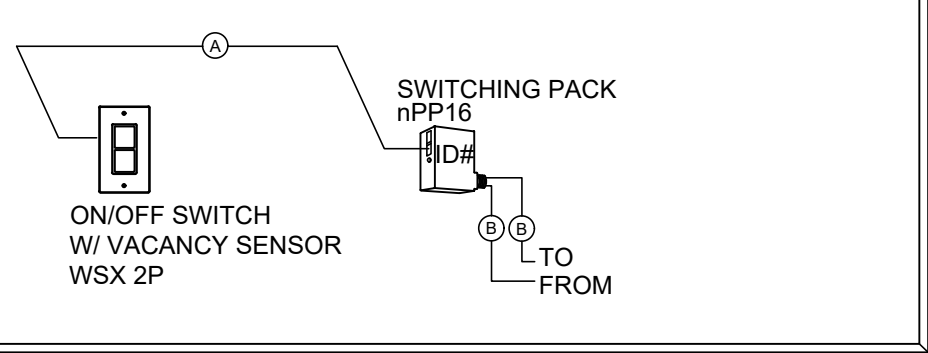
LOBBY 100, 101, 102



ROOMS 201, 202D, 202G



MECHANICAL ROOMS, RESTROOMS



GENERAL NOTES

1. THE LIGHTING CONTROL DIAGRAMS ON THIS SHEET REPRESENT A GENERIC LAYOUT OF THE COMPONENTS THAT ARE REQUIRED USING THE ACUITY CONTROLS SYSTEM.
2. PROVIDE PROPER QUANTITY AND TYPE OF OCCUPANCY SENSORS, SWITCHES, SWITCH PACKS, DAYLIGHT SENSORS, ETC. PER CODE REQUIREMENT FOR EACH SPACE.
3. FOLLOW MANUFACTURER INSTRUCTIONS FOR PROPER PRODUCT PLACEMENT, INSTALLATION, WIRING, AND OPERATION.

SEQUENCE OF OPERATIONS

1. GENERAL LIGHTING AUTO ON TO 50% AND CONTROLLED RECEPTACLES AUTO ON WHEN OCCUPANCY DETECTED.
2. MANUAL ON/OFF/DIM GENERAL LIGHTING WITH DIMMER SWITCHES.
3. LIGHTING IN DAYLIGHT ZONE WILL CONTINUOUSLY DIM BASED ON DAYLIGHT CONTRIBUTION TO MAINTAIN AT LEAST 35% AT TASK LEVEL.
4. AUTO OFF ALL LIGHTING AND CONTROLLED RECEPTACLES WITHIN 20 MINUTES OF OCCUPANTS LEAVING.
5. EMERGENCY LIGHTING TRANSFERS TO EMERGENCY POWER SOURCE AND FULL ON WITH LOSS OF NORMAL POWER.



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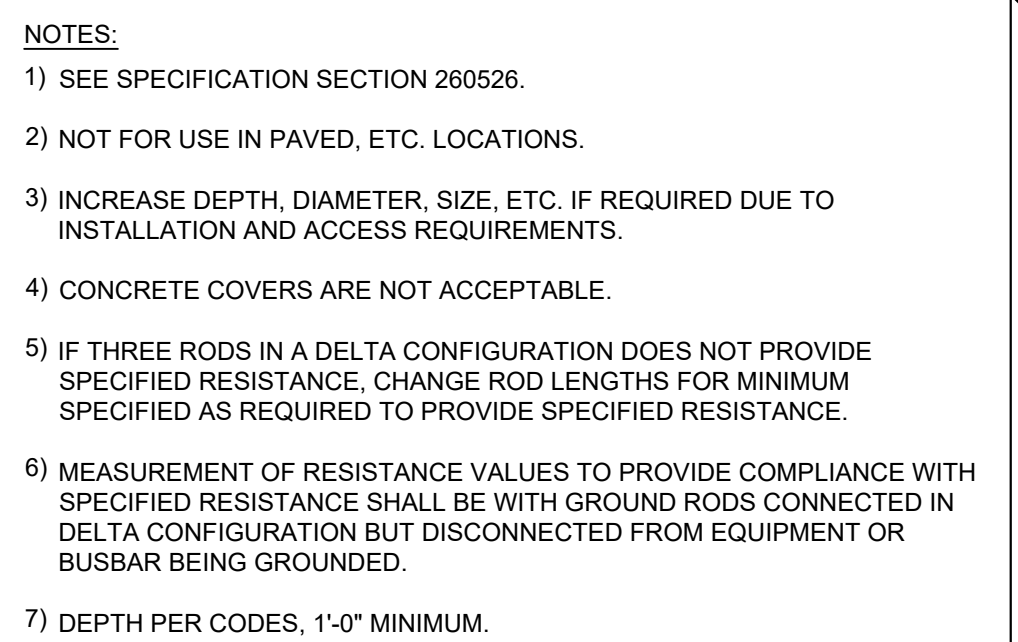
LIGHTING CONTROL DIAGRAMS

ERAU PRODUCTION BUILDING
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FLORIDA

Date 12/20/2019
Job no. 2019-5743
Sheet no.

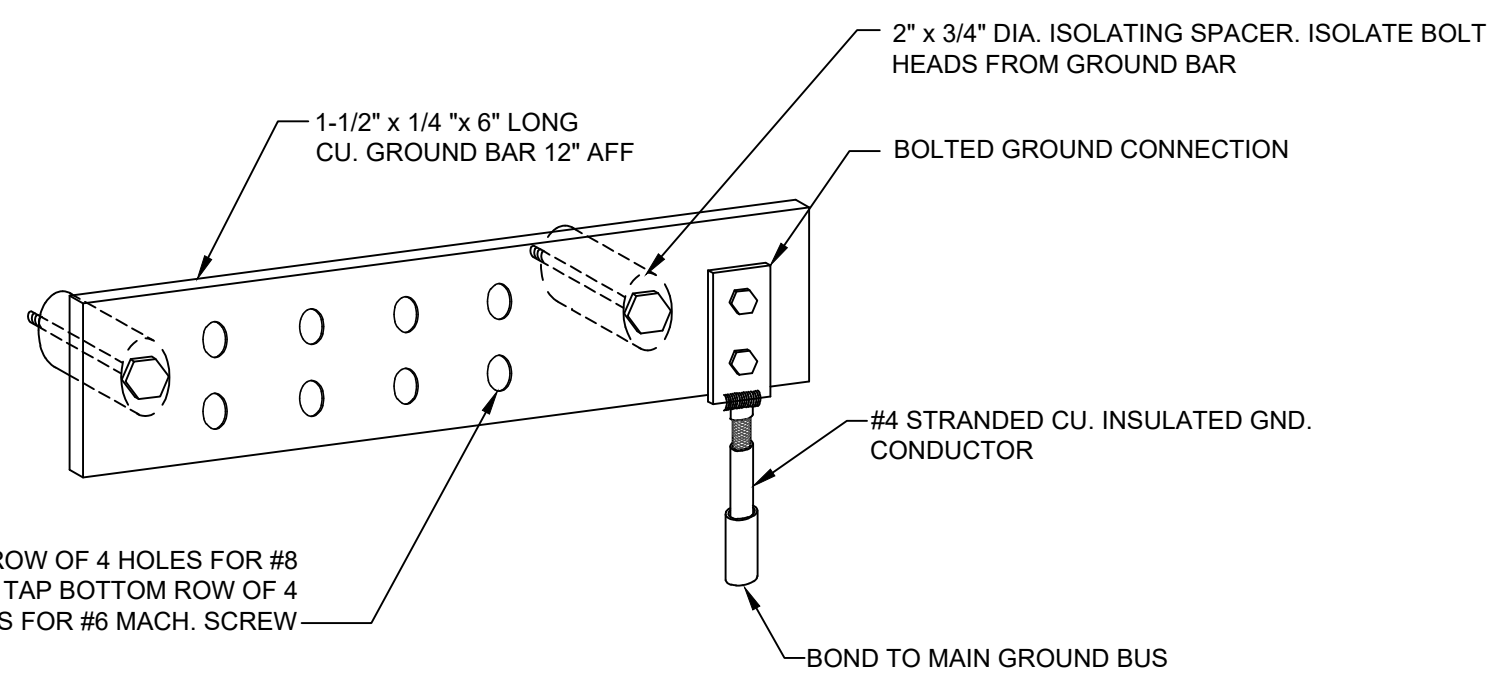
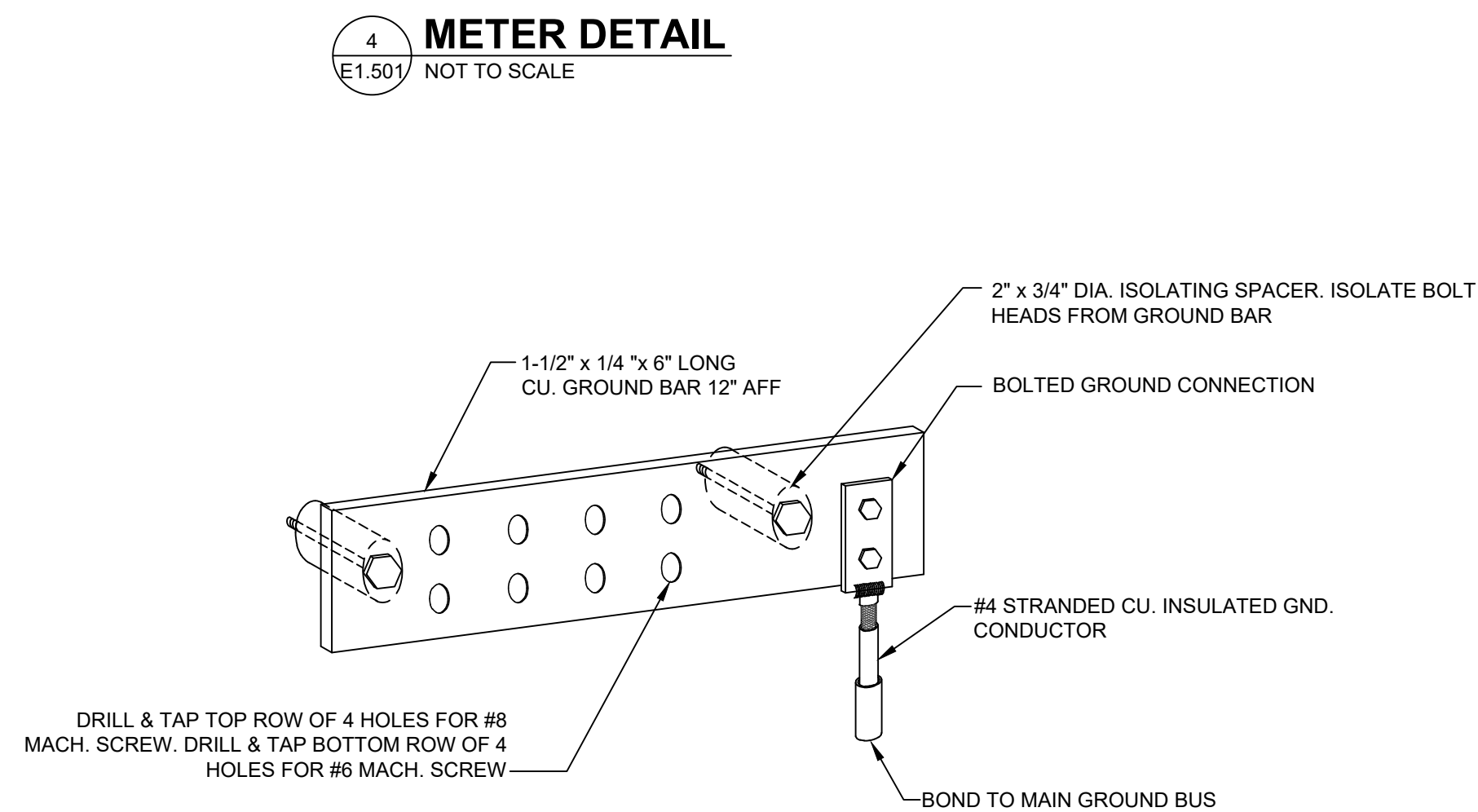
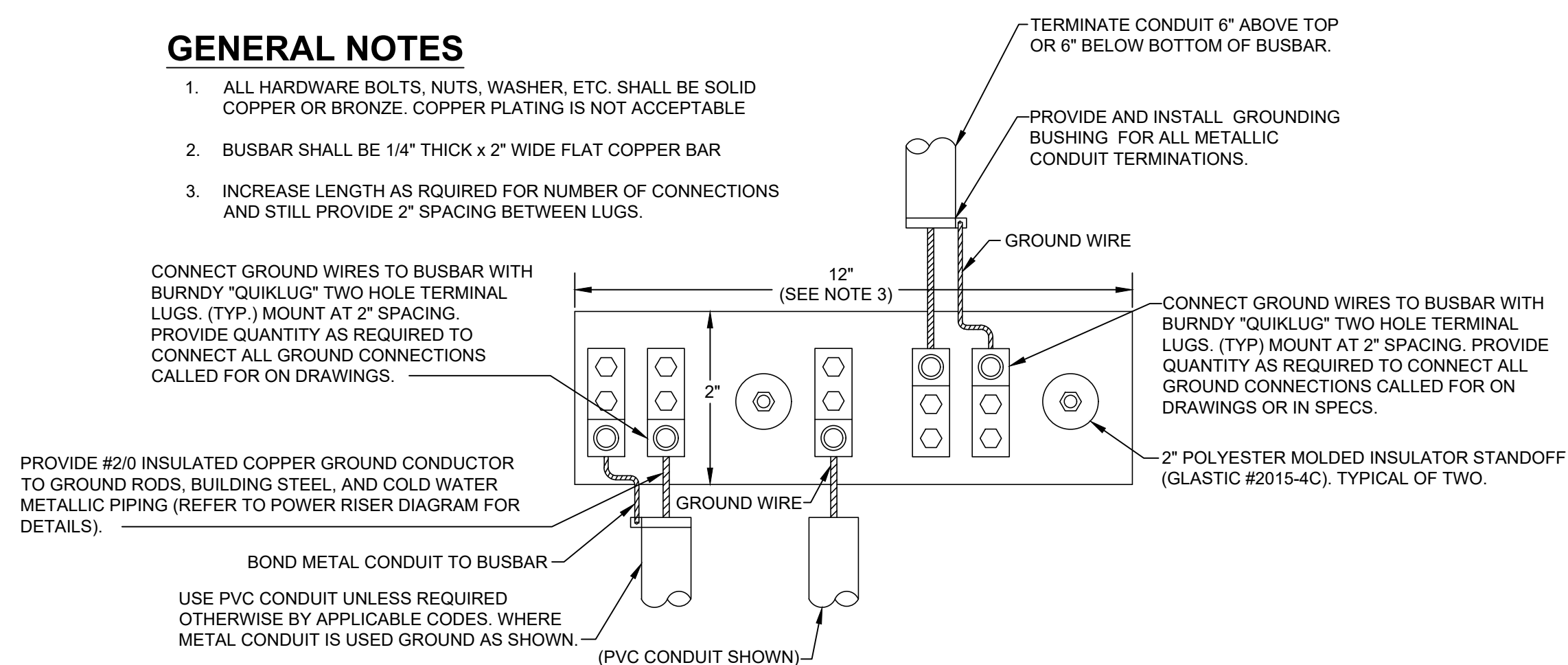
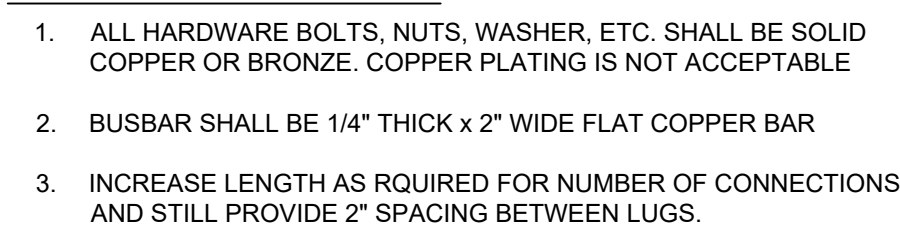
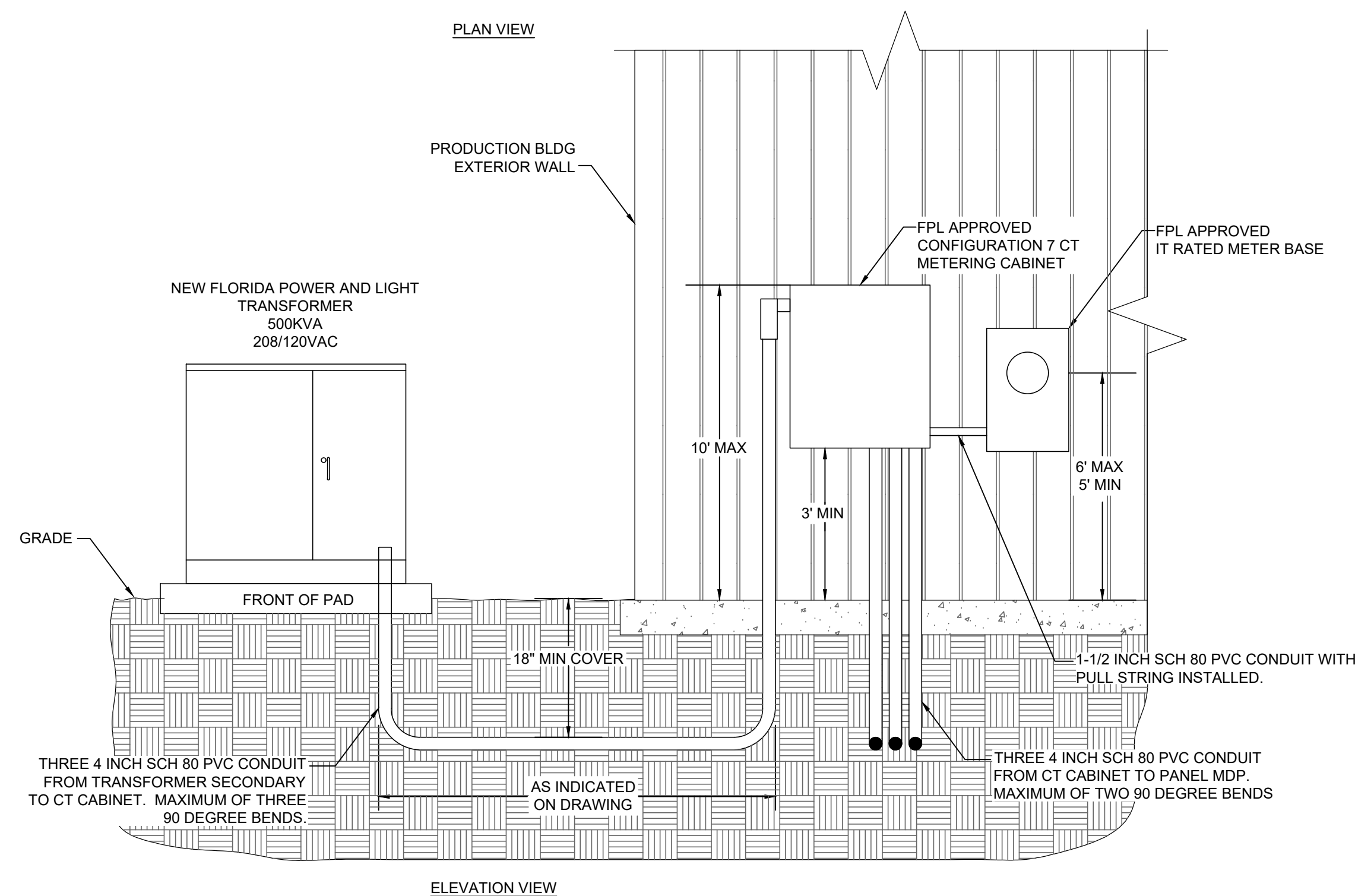
E1.403

REVISION	DATE	DRAWN	CHECKED



WELL:

INSIDE DIMENSIONS: 12" MINIMUM
HEIGHT: 18" MINIMUM
MATERIAL: STRUCTURAL PLASTIC, CONCRETE, OR COMPOSOLITE
MANUFACTURER: QUAZITE OR BROOKS PRODUCTS



VOLTS L-N : 120 VOLTS PH : 208 PHASE : 3 MOUNTING : SURFACE MFR : SQ. D. TYPE : HCM				MAIN OPTIONS REQUIRED S.E. RATED : YES GFI PROT. : N/A SHUNT TRIP : YES				PANEL : MDP MCB : 800 AMPS MLO : N/A AMPS PROVIDE NEW PANEL LOCATION: ELECTRICAL ROOM 106 AIC RATING (FULLY RATED OR SERIES RATED): 35 KA (MINIMUM, SEE SPECIFICATIONS)								ENCLOSURE DATA NEMA : 1 SECTIONS : 1 WIDTH/SECT. : 32 DEPTH : 9.5 FED FROM: UTILITY				
NOTES		DESCRIPTION		LOAD	AMPS	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	AMPS	LOAD	DESCRIPTION		NOTES
		PANEL DP1			234			400	3	1	2	3	225	3				PANEL RP2		
----					234			----	----	3	4	----	----	3				----		
----						234		----	----	5	6	----	----		3			----		
		PANEL LP1			12			100	3	7	8	3	225	3				PANEL RP3		
----					12			----	----	9	10	----	----	3				----		
----						12		----	----	11	12	----	----		3			----		
		PANEL RP1			272			225	3	13	14	3	100	0				SPARE		
----					272			----	----	15	16	----	----		0			----		
----						272		----	----	17	18	----	----			0		----		
		ELEVATOR		79	79			175	3	19	20	3	30	0				SPD		
----				79	79			----	----	21	22	----	----		0			----		
----				79			79	----	----	23	24	----	----			0		----		
602 : AMPS PHASE A 602 : AMPS PHASE B 602 : AMPS PHASE C AMPS KVA ACTUAL CONN. LOAD : 608 219 NEC DEMAND : 596 214																				
PANEL NOTES: 1) REFER TO PANEL FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS. 2) REFER TO EQUIPMENT FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS. 3) 100% RATED MAIN BREAKER																				

VOLTS L-N : 120 VOLTS PH : 208 PHASE : 3 MOUNTING : SURFACE MFR : SQ. D. TYPE : NQ00				MAIN OPTIONS REQUIRED S.E. RATED : N/A GFI PROT. : N/A SHUNT TRIP : N/A				PANEL : DP1 MCB : N/A AMPS MLO : 400 AMPS PROVIDE NEW PANEL LOCATION: ELECTRIC RM. 206 AIC RATING (FULLY RATED OR SERIES RATED): 10 KA (MINIMUM, SEE SPECIFICATIONS)										ENCLOSURE DATA NEMA : 1 SECTIONS : 2 WIDTH/SECT. : 20 DEPTH : 5.75 FED FROM: MDP												
NOTES	DESCRIPTION														LOAD CONN	DESCRIPTION														NOTES
	AHU-3	36	36				C.B. AMPS	C.B. POLES	CKT. NUM.	CKT. NUM.	C.B. POLES	C.B. AMPS	AMPS	AMPS	AMPS	LOAD CONN	AHU-5	36	36	----										
	----	36		36			----	----	3	4	----	----		36			36	----	----											
	----	36			36		----	----	5	6	----	----			36	36	----	----												
	AHU-4	36	36				40	3	7	8	3	40	37			37	AHU-6	37	37	----										
	----	36		36			----	----	9	10	----	----		37		37	----	----												
	----	36			36		----	----	11	12	----	----			37	37	----	----												
	EF-1	7	7				20	1	13	14	3	100	8				PANEL LP2													
	SPARE				0		20	1	15	16	----	----		8			----	----												
	SPARE					0	20	1	17	18	----	----			8		----	----												
	202E REC	4	6				20	1	19	20	1	20	11			7	200, 201, 202G REC													
	202D REC	5		8			20	1	21	22	1	20		8		5	202H, 202L, 202P REC													
	202D REC	4			6	20	1	23	24	1	20			3	2	SE SYSTEMS FURNITURE														
	REC 202B	5	8				20	1	25	26	1	20	8			2	SE SYSTEMS FURNITURE													
	202A, 202C, 202F, 202G REC	8		12			20	1	27	28	1	20		5	3	NE SYSTEMS FURNITURE														
	202C COUNTER AND REFRIG REC	11			11	20	1	29	30	1	20			12	3	NE SYSTEMS FURNITURE														
	NW SYSTEMS FURNITURE	2	8				20	1	31	32	1	20	3			2	E SYSTEMS FURNITURE													
	NW SYSTEMS FURNITURE	2		8			20	1	33	34	1	20		8		2	E SYSTEMS FURNITURE													
	NW SYSTEMS FURNITURE	4			6	20	1	35	36	1	20			6	4	202J REC														
	SW SYSTEMS FURNITURE	3	12				20	1	37	38	1	20	6			4	202K REC													
	SW SYSTEMS FURNITURE	3		5			20	1	39	40	1	20		6		4	202M REC													
	IT RACK REC	2			8	20	1	41	42	1	20			6	4	202N REC														
	IT RACK REC	2	8				20	1	43	44	1	20	5			3	203, 204, 205 REC													
	W SYSTEMS FURNITURE	1		2			20	1	45	46	1	20		22		22	EWB-2													
	W SYSTEMS FURNITURE	1			4	20	1	47	48	1	20			22	22	----	----													
	COPIER	1	4				20	1	49	50	1	20	11			11	EWC				3									
	SPARE				0		20	1	51	52	1	20		0			SPARE													
	SPARE					0	20	1	53	54	1	20			0		SPARE													
	SPARE			0			20	1	55	56	1	20	0				SPARE													
	SPARE				0		20	1	57	58	1	20		0			SPARE													
	SPARE					0	20	1	59	60	1	20			0		SPARE													
	SPARE			0			20	1	61	62	1	20	0				SPARE													
	SPARE				0		20	1	63	64	1	20		0			SPARE													
	SPARE					0	20	1	65	66	1	20			0		SPARE													
	SPARE			0			20	1	67	68	1	20	0				SPARE													
	SPARE				0		20	1	69	70	1	20		0			SPARE													
	SPARE					0	20	1	71	72	1	20			0		SPARE													
	SPARE			0			20	1	73	74	1	20	0				SPARE													
	SPARE				0		20	1	75	76	1	20		0			SPARE													
	SPARE					0	20	1	77	78	1	20			0		SPARE													
	SPARE			0			20	1	79	80	3	30	0				SPD													
	SPARE				0		20	1	81	82	----	----		0			----													
	SPARE					0	20	1	83	84	----	----			0		----													
248 : AMPS PHASE A 234 : AMPS PHASE B 237 : AMPS PHASE C AMPS KVA ACTUAL CONN. LOAD : 240 86 NEC DEMAND : 234 84																														
PANEL NOTES: 1) REFER TO PANEL FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS. 2) REFER TO EQUIPMENT FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS. 3) PROVIDE GFI TYPE CIRCUIT BREAKER. 4) PROVIDE LOCKABLE BREAKER COLORED RED PER NFPA 72, SECTION 10.6.5																														

VOLTS L-N : 120 VOLTS PH : 208 PHASE : 3 MOUNTING : SURFACE MFR : SQ. D. TYPE : NQ00				MAIN OPTIONS REQUIRED S.E. RATED : N/A GFI PROT. : N/A SHUNT TRIP : N/A				PANEL : RP1 MCB : N/A AMPS MLO : 225 AMPS PROVIDE NEW PANEL LOCATION: ELECTRIC RM. 106 AIC RATING (FULLY RATED OR SERIES RATED): 10 KA (MINIMUM, SEE SPECIFICATIONS)										ENCLOSURE DATA NEMA : 1 SECTIONS : 1 WIDTH/SECT. : 20 DEPTH : 5.75 FED FROM: MDP														
NOTES	DESCRIPTION														LOAD CONN	DESCRIPTION														NOTES		
	DOAS-1														42	42				50	3	1	2	3	40	37			37	AHU-2		
	=====														42		42		=====	=====	3	4	=====	=====		37	37	=====				
	=====														42			42	=====	=====	5	6	=====	=====		37	37	=====				
	AHU-1														37	37				40	3	7	8	1	20	0				SPARE		
	=====														37			37		=====	=====	9	10	1	20		0			SPARE		
	=====														37				37	=====	=====	11	12	1	20			0		SPARE		
	EXTERIOR RECEPTACLES														5	8				20	1	13	14	2	30	5			5	FACP	4	
	RM 100, 103, 106 REC														6		9			20	1	15	16	=====	=====	8		3	2	TTB RECEP		
3	EWC														11			11	20	1	17	18	1	20				2	RM 105, 104 REC			
	EWH-1														22	22				30	2	19	20	3	30	18			18	HP-4		
	=====														22			22		=====	=====	21	22	=====	=====		18	18	=====			
	ELEVATOR SUMP PUMP														10			10	20	1	23	24	=====	=====			18	18	=====			
	DC-1														5	5				15	3	25	26	3	30	18			18	HP-5		
	=====														5		5			=====	=====	27	28	=====	=====		18	18	=====			
	=====														5			5		=====	=====	29	30	=====	=====			18	18	=====		
	HP-1														21	21				35	3	31	32	3	35	21			21	HP-6		
	=====														21		21			=====	=====	33	34	=====	=====		21	21	=====			
	=====														21			21		=====	=====	35	36	=====	=====			21	21	=====		
	HP-2														21	21				35	3	37	38	1	20	2			1	ELEVATOR PIT REC		
	=====														21		21			=====	=====	39	40	1	20		5	5	BAS PANEL			
	=====														21			21		=====	=====	41	42	1	20			0	5	SOCP		
	HP-3														18	18				30	3	43	44	1	20	0				SPARE		
	=====														18		18			=====	=====	45	46	1	20			0		SPARE		
	=====														18			18		=====	=====	47	48	1	20			0		SPARE		
	SPARE																0			20	1	49	50	1	20	0				SPARE		
	SPARE																	0		20	1	51	52	1	20			0		SPARE		
	SPARE																		0	20	1	53	54	1	20				0	SPARE		
	SPARE																	0		20	1	55	56	1	20	0				SPARE		
	SPARE																		0	20	1	57	58	1	20			0		SPARE		
	SPARE																			0	20	1	59	60	1	20			0		SPARE	
274 : AMPS PHASE A 282 : AMPS PHASE B 262 : AMPS PHASE C AMPS KVA ACTUAL CONN. LOAD : 272 98 NEC DEMAND : 272 98																																
PANEL NOTES: 1) REFER TO PANEL FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS. 2) REFER TO EQUIPMENT FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS. 3) PROVIDE GFI TYPE CIRCUIT BREAKER. 4) PROVIDE LOCKABLE BREAKER COLORED RED PER NFPA 72, SECTION 10.6.5																																

VOLTS L-N : 120 VOLTS PH : 208 PHASE : 3 MOUNTING : SURFACE MFR : SQ. D. TYPE : NQ00			MAIN OPTIONS REQUIRED S.E. RATED : N/A GFI PROT. : N/A SHUNT TRIP : N/A			PANEL : RP2 MCB : N/A AMPS MLO : 225 AMPS			ENCLOSURE DATA NEMA : 1 SECTIONS : 1 WIDTH/SECT. : 20 DEPTH : 5.75 FED FROM: MDP									
PROVIDE NEW PANEL LOCATION: SHELL SPACE 101																		
AIC RATING (FULLY RATED OR SERIES RATED): 22 KA (MINIMUM, SEE SPECIFICATIONS)																		
NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT. NUM.	CKT. NUM.	C.B. POLES	C.B. AMPS	AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES	
	101 NORTH REC	3	5			20	1	1	2	1	20	0				SPARE		
	101 SOUTH REC	2		3		20	1	3	4	1	20		0			SPARE		
	SPARE				0	20	1	5	6	1	20			0		SPARE		
	SPARE			0		20	1	7	8	1	20	0				SPARE		
	SPARE				0	20	1	9	10	1	20		0			SPARE		
	SPARE					0	20	1	11	12	1	20			0	SPARE		
	SPARE			0		20	1	13	14	1	20	0				SPARE		
	SPARE				0	20	1	15	16	1	20			0		SPARE		
	SPARE				0	20	1	17	18	1	20				0	SPARE		
	SPARE			0		20	1	19	20	1	20	0				SPARE		
	SPARE				0	20	1	21	22	1	20			0		SPARE		
	SPARE				0	20	1	23	24	1	20				0	SPARE		
	SPARE			0		20	1	25	26	1	20	0				SPARE		
	SPARE				0	20	1	27	28	1	20			0		SPARE		
	SPARE				0	20	1	29	30	1	20				0	SPARE		
	SPARE			0		20	1	31	32	1	20	0				SPARE		
	SPARE				0	20	1	33	34	1	20			0		SPARE		
	SPARE					0	20	1	35	36	1	20				0	SPARE	
	SPARE			0		20	1	37	38	1	20			0		SPARE		
	SPARE				0	20	1	39	40	1	20				0	SPARE		
	SPARE				0	20	1	41	42	1	20				0	SPARE		
<div>AMPS KVA</div> <div>5 : AMPS PHASE A </div>																		

VOLTS L-N : 120
VOLTS PH : 208
PHASE : 3
MOUNTING : SURFACE
MFR : SQ. D.
TYPE : NOOD

MAIN OPTIONS REQUIRED
S.E. RATED : N/A
GFI PROT. : N/A
SHUNT TRIP : N/A

PANEL : LP1
MCB : N/A
MLO : 100
AMPS

ENCLOSURE DATA
NEMA : 1
SECTIONS : 1
WIDTH/SECT. : 20
DEPTH : 5.75
FED FROM: MDP

PROVIDE NEW PANEL
LOCATION: ELECTRICAL ROOM 106

AIC RATING (FULLY RATED OR SERIES RATED): 22 KA (MINIMUM, SEE SPECIFICATIONS)

NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT. NUM.	CKT. NUM.	C.B. POLES	C.B. AMPS	AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
	RM 101 LTS	336	3					1	1	2	1	20	3		336	RM 102 LTS	
	RM 100 LTS	136		1				2	1	3	4	1	20	2	180	RM 102A, 106 LTS	
	RM 101A, 103, 104, 105 LTS	238			2			2	1	5	6	1	20		2	240	EXTERIOR SCENCE
	HOISTWAY LTS	60	1					2	1	7	8	1	20	1	100	SOUTH ENTRANCE EXTERIOR LTS	
3	ELEVATOR CAB LTS	1800			15			2	1	9	10	1	20		2	200	NORTH ENTRANCE EXTERIOR LTS
	SPARE					0		2	1	11	12	1	20		6	750	PARKING LIGHTS
	SPARE			0				2	1	13	14	1	20	0			SPARE
	SPARE				0			2	1	15	16	2	20		0		SPARE
	SPARE					0		2	1	17	18	---	---		0		SPARE
	SPARE				0			2	1	19	20	1	20	0			SPARE
	SPARE				0			2	1	21	22	1	20		0		SPARE
	SPARE					0		2	1	23	24	1	20			0	SPARE
	SPARE			0				2	1	25	26	1	20	0			SPARE
	SPARE				0			2	1	27	28	1	20		0		SPARE
	SPARE					0		2	1	29	30	1	20			0	SPARE
	SPARE			0				2	1	31	32	1	20	0			SPARE
	SPARE				0			2	1	33	34	1	20		0		SPARE
	SPARE					0		2	1	35	36	1	20			0	SPARE
	SPARE				0			2	1	37	38	1	20	0			SPARE
	SPARE					0		2	1	39	40	1	20		0		SPARE
	SPARE						0	2	1	41	42	1	20			0	SPARE

7 : AMPS PHASE A
19 : AMPS PHASE B
10 : AMPS PHASE C

AMPS KVA
ACTUAL CONN. LOAD : 12 4
NEC DEMAND : 12 4

PANEL NOTES:

1) REFER TO PANEL FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS.
2) REFER TO EQUIPMENT FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS.
3) PROVIDE GFI TYPE CIRCUIT BREAKER.

VOLTS L-N : 120 VOLTS PH- N/A PHASE : 1 MFR: MYERS TYPE: 1EMZS		PANEL : EL1 MCB : 20 AMPS MLO : N/A AMPS		ENCLOSURE DATA NEMA : 1 SECTIONS : 1 WIDTH/SECT. : 25 DEPTH : 11 FED FROM: LP2				
AIC RATING (FULLY RATED OR SERIES RATED): 10 KA (MINIMUM, SEE SPECIFICATIONS)								
NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT. NUM.	
	INTERIOR EMERGENCY	1010	8		20	1	1	

AMPS VA
 ACTUAL CONN. LOAD : 8 1010

PANEL NOTES:

1) 1.6 KVA EMERG. LTG. INVERTER WITH 120V INPUT/OUTPUT.

ACUITY BLUE BOX LT:			LCP1			ERAU PRODUCTION BUILDING			
PROJECT NAME:									
RELAY	SWITCH	PANEL & CIRCUIT NO.	DESCRIPTION	CONTROL NOTES (SEE BELOW)		DESCRIPTION	PANEL & CIRCUIT NO.	SWITCH LEG	RELAY NO.
1	aa	LP1-6	EXTERIOR SCONCE	b	b	NORTH ENTRY EXTERIOR	LP1-10	cc	2
3	bb	LP1-8	SOUTH ENTRY EXTERIOR	b	b	PARKING LOT LIGHTS	LP1-14	dd	4
5	ee	EL1-1	S EXTERIOR EMERGENCY	b	b	N EXTERIOR STAIRS	EL1-1	ff	6
7	ee		SPARE RELAY			SPARE RELAY			8

GENERAL NOTES:

- (1) - SEE SPECIFICATIONS FOR REQUIREMENTS.
- (2) - PROVIDE OVERRIDE SWITCHES AT PANEL FOR EACH SET POINT.
- (3) - COLOR CODING OF CONDUCTORS SHALL BE THE SAME THROUGHOUT CIRCUIT.
- (4) - PROVIDE PROGRAMMED TIME-OF DAY OFF OF ALL INTERIOR SPACE LIGHTING RELAYS.
- (5) - PROVIDE SYSTEM PHOTOCELL ON ROOF FACING NORTH AND CONNECT TO RELAY PANEL PROCESSOR.
- (6) - PROVIDE BARRIER IN PANEL TO SEPARATE NORMAL AND EMERGENCY CIRCUITS.
- (7) - PROVIDE DOUBLE POLE SINGLE THROW RELAYS FOR ALL CIRCUITS FED BY 2 POLE C.B.'S

CONTROL NOTES:

- a - CIRCUIT CONTROLLED VIA DIGITAL SWITCH AND PROGRAMMED TIME OF DAY 'OFF' SCHEDULE.
- b - PHOTOCELL ON TIME CLOCK OFF PER OWNER'S DIRECTION.
- c - PHOTOCELL ON - PHOTOCELL OFF.
- d - REFER TO RELAY PANEL CONTROL DIAGRAM FOR ADDITIONAL CONTROL REQUIREMENTS.
- e - PROVIDE PROGRAMMABLE DIMMING MODULE FOR THIS SWITCH/LEG (COORDINATE WITH FIXTURE TYPE).
- g - CIRCUIT CONTROLLED VIA LOCAL SWITCH AND PROGRAMMED TIME OF DAY 'OFF' SCHEDULE.



Date	12/20/2019	SCHEDULES - ELECTRICAL	ERAU PRODUCTION BUILDING EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FLORIDA	REVISION	DATE
Job no.	2019-5743				
Sheet no.					
E1.602				DRAWN	CHECKED