

**GENERAL NOTES**

1. COORDINATE WITH FP&L FOR INSTALLATION OF THE NEW TRANSFORMER AND THE PRIMARY CONDUITS.
2. COORDINATE WITH ERAU PRIOR TO DEMOLITION OF THE EXISTING TRANSFORMERS AND SECONDARY CONDUITS TO EXISTING BUILDING METER.
3. PROVIDE AND INSTALL NEW LAMICOID NAMEPLATES FOR EXISTING WAREHOUSE BUILDING PANELS INDICATING 208VAC OPERATING VOLTAGE.

**REFERENCE NOTES**

- ① COORDINATE WITH FP&L FOR REMOVAL OF EXISTING 240/120 VAC SINGLE PHASE TRANSFORMERS.
- ② REMOVE EXISTING SECONDARY FEEDER FROM EXISTING TRANSFORMERS TO WAREHOUSE BUILDING METER.
- ③ PULL BACK COMMUNICATIONS CABLE FROM EXISTING WAREHOUSE BUILDING TO MAINTENANCE OFFICE BUILDING AND RELOCATE EXISTING PULLBOX.
- ④ INTERCEPT AND REROUTE COMMUNICATIONS CONDUITS TO RELOCATED COMMUNICATIONS PULLBOX.
- ⑤ INSTALL TWO 3 INCH SCH 40 PVC CONDUITS FROM RELOCATED COMMUNICATIONS PULLBOX TO THE PRINT SHOP COMMUNICATIONS ROOM. STUB UP CONDUITS ADJACENT TO TTB BOARD.
- ⑥ INSTALL TWO 3 INCH SCH 40 PVC CONDUITS FROM THE RELOCATED PULLBOX TO FUTURE BUILDING LOCATION. INSTALL TRACER WIRES AND CAP BELOW GRADE.
- ⑦ INSTALL NEW TRANSFORMER PAD AND COORDINATE INSTALLATION OF NEW TRANSFORMER WITH FP&L.
- ⑧ INSTALL NEW SERVICE CONDUCTORS IN SCH 40 PVC CONDUITS FROM TRANSFORMER SECONDARY TO PANEL MDP. SEE PANEL FEEDER SCHEDULE ON SHEET E6.1 FOR CONDUIT AND CONDUCTOR SIZING.
- ⑨ INSTALL METER CONDUIT FROM TRANSFORMER SECONDARY CONDUIT TO METER BASE PER THE METER DETAIL ON SHEET E5.1.
- ⑩ INSTALL NEW SERVICE CONDUCTORS IN SCH 40 PVC CONDUITS FROM TRANSFORMER SECONDARY TO WAREHOUSE BUILDING METER BASE. SEE PANEL FEEDER SCHEDULE ON SHEET E6.1 FOR CONDUIT AND CONDUCTOR SIZING.
- ⑪ INSTALL THREE 4 INCH CONDUITS FROM TRANSFORMER SECONDARY CABINET TO FUTURE BUILDING LOCATION. INSTALL TRACER WIRE AND CAP CONDUITS BELOW GRADE. MAINTAIN 12" MIN SPACING BETWEEN POWER AND DATA CONDUITS.



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**ISSUE FOR BID - 8/17/2019**

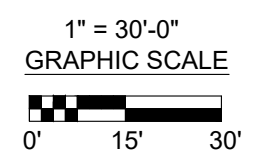
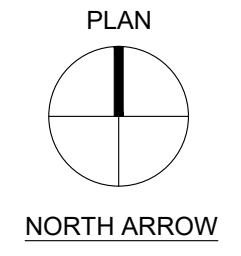
**SITE PLAN - ELECTRICAL**

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY  
NEW PRINT SHOP BUILDING

**E1.1**

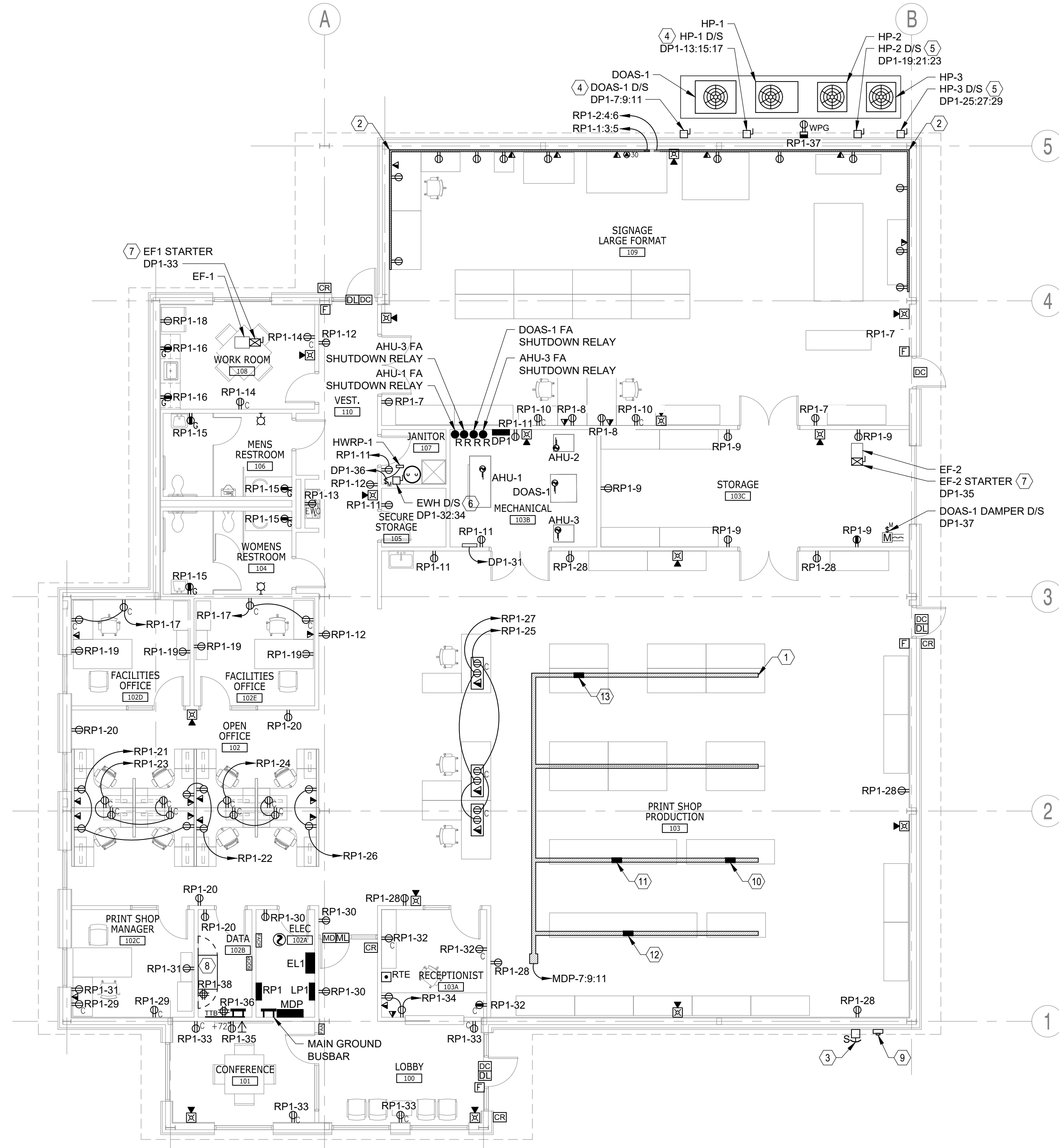
Date: 07/12/2019  
Job no.: SOE19005  
Sheet no.:

1 SITE PLAN - ELECTRICAL  
E1.1 1" = 30'-0"



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**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.



1 FLOOR PLAN - POWER AND SYSTEMS  
 E1.2 1/8" = 1'-0"

**GENERAL NOTES**

1. FURNITURE SYSTEM RECEPTACLES ARE APPROXIMATE. FINAL CONFIGURATION TO BE COORDINATED WITH CHOSEN FURNITURE MANUFACTURER.
2. PROVIDE ONE SPARE FOR EACH TYPE OF MODULE FOR STARLINE PLUG-IN RACEWAY.
3. PROVIDE ONE SPARE FOR EACH TYPE OF PLUG-IN UNIT FOR STARLINE TRACK BUSWAY.
4. PROVIDE AND INSTALL TWO CAT 6 CABLES TO EACH COMMUNICATIONS RACK IN ROOM 102B TO EACH DATA/TELEPHONE RECEPTACLE

**REFERENCE NOTES**

1. PROVIDE AND INSTALL STARLINE 225A TRACK BUSWAY 12 INCHES ABOVE CENTERLINE OF HVAC DUCTWORK.
2. PROVIDE AND INSTALL STARLINE 60A POWER AND DATA PLUG-IN RACEWAY MOUNTED AT 36 INCHES AFF. PROVIDE PLUG MODULES AS INDICATED ON DRAWINGS.
3. 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".
4. PROVIDE AND INSTALL 240VAC, 60A, 3P DISCONNECT SWITCH IN A NEMA 3R ENCLOSURE.
5. PROVIDE AND INSTALL 240VAC, 30A, 3P DISCONNECT SWITCH IN A NEMA 1 ENCLOSURE.
6. PROVIDE AND INSTALL 240VAC, 30A, 2P DISCONNECT SWITCH IN A NEMA 1 ENCLOSURE TO SERVICE EWH.
7. NEMA 00 COMBINATION MOTOR STARTER.
8. RELOCATE EXISTING COMMUNICATIONS RACK FROM MAINTENANCE WAREHOUSE TO PRINT SHOP. COORDINATE WITH ERAU PRIOR TO INSTALLATION.
9. INSTALL METER BASE. SEE SHEET ES.1 FOR METER MOUNTING DETAILS.
10. PROVIDE AND INSTALL STARLINE TRACK BUSWAY PLUG-IN UNIT EQUIPPED WITH ONE NEMA 6-15R RECEPTACLE AND TWO NEMA 5-15R RECEPTACLES ON 15 FOOT CORDS. EACH RECEPTACLE TO BE PROVIDED WITH OVER CURRENT PROTECTION.
11. PROVIDE AND INSTALL STARLINE TRACK BUSWAY PLUG-IN UNIT EQUIPPED WITH ONE NEMA 14-50R RECEPTACLE, ONE NEMA 14-30R RECEPTACLE, AND TWO NEMA 6-20R RECEPTACLES ON 15 FOOT CORDS. EACH RECEPTACLE TO BE PROVIDED WITH OVER CURRENT PROTECTION.
12. PROVIDE AND INSTALL STARLINE TRACK BUSWAY PLUG-IN UNIT EQUIPPED WITH ONE NEMA 14-30R RECEPTACLE AND SIX NEMA 5-15R RECEPTACLES ON 15 FOOT CORDS. EACH RECEPTACLE TO BE PROVIDED WITH OVER CURRENT PROTECTION.
13. PROVIDE AND INSTALL STARLINE TRACK BUSWAY PLUG-IN UNIT EQUIPPED WITH FOUR NEMA 5-15R RECEPTACLES ON 15 FOOT CORDS. EACH RECEPTACLE TO BE PROVIDED WITH OVER CURRENT PROTECTION.



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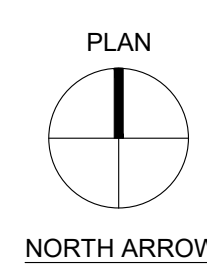
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**ISSUE FOR BID - 8/17/2019**  
**FLOOR PLAN - POWER AND SYSTEMS**  
 EMBRY-RIDDLE AERONAUTICAL UNIVERSITY  
 NEW PRINT SHOP BUILDING  
 Date: 07/12/2019  
 Job no.: SOE19005  
 Sheet no.: E1.2

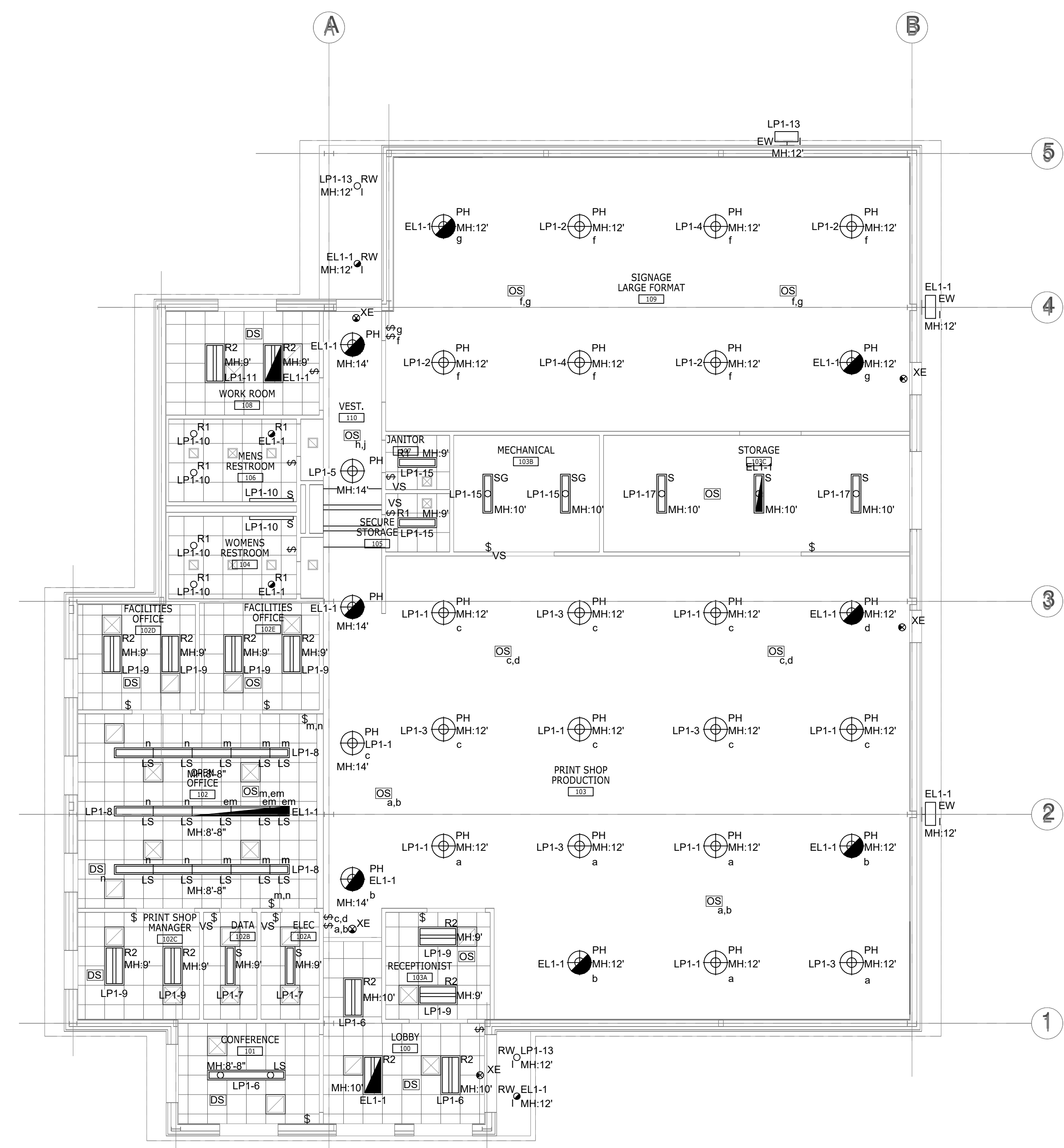


1/8" = 1'-0"  
 GRAPHIC SCALE  
 0' 2' 4' 8'



**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 E6.3 FOR DETAILS.



1 REFLECTED CEILING PLAN - ELECTRICAL  
E1.3 1/8" = 1'-0"

ISSUE FOR BID - 8/7/2019

REFLECTED CEILING PLAN - ELECTRICAL

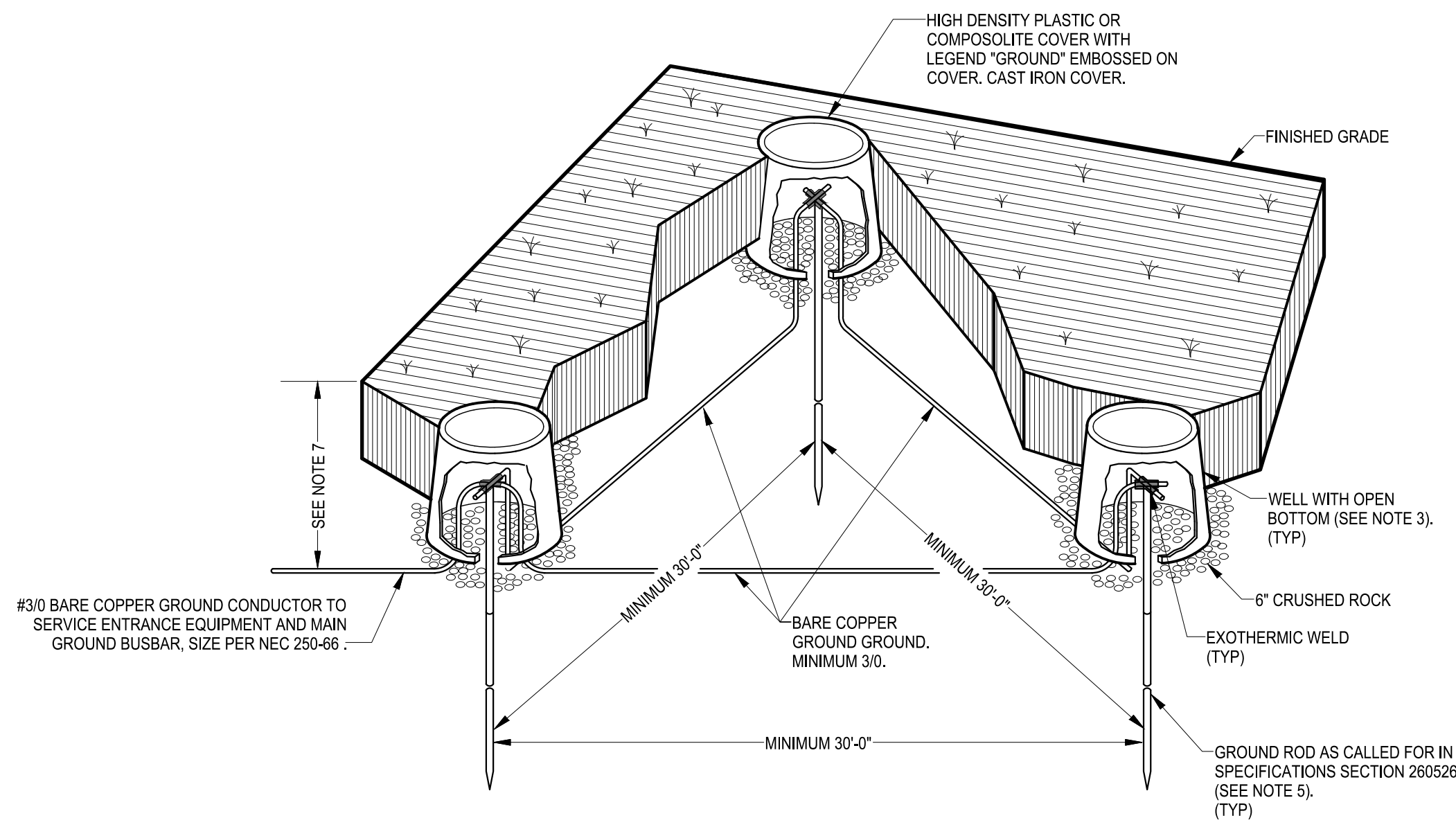
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY  
NEW PRINT SHOP BUILDING

Date: 07/12/2019  
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E1.3

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#3/0 BARE COPPER GROUND CONDUCTOR TO SERVICE ENTRANCE EQUIPMENT AND MAIN GROUND BUSBAR, SIZE PER NEC 250-66.

- NOTES:**
- 1) SEE SPECIFICATION SECTION 260526.
  - 2) NOT FOR USE IN PAVED, ETC. LOCATIONS.
  - 3) INCREASE DEPTH, DIAMETER, SIZE, ETC. IF REQUIRED DUE TO INSTALLATION AND ACCESS REQUIREMENTS.
  - 4) CONCRETE COVERS ARE NOT ACCEPTABLE.
  - 5) IF THREE RODS IN A DELTA CONFIGURATION DOES NOT PROVIDE SPECIFIED RESISTANCE, CHANGE ROD LENGTHS FOR MINIMUM SPECIFIED AS REQUIRED TO PROVIDE SPECIFIED RESISTANCE.
  - 6) MEASUREMENT OF RESISTANCE VALUES TO PROVIDE COMPLIANCE WITH SPECIFIED RESISTANCE SHALL BE WITH GROUND RODS CONNECTED IN DELTA CONFIGURATION BUT DISCONNECTED FROM EQUIPMENT OR BUSBAR BEING GROUNDED.
  - 7) DEPTH PER CODES, 1'-0" MINIMUM.

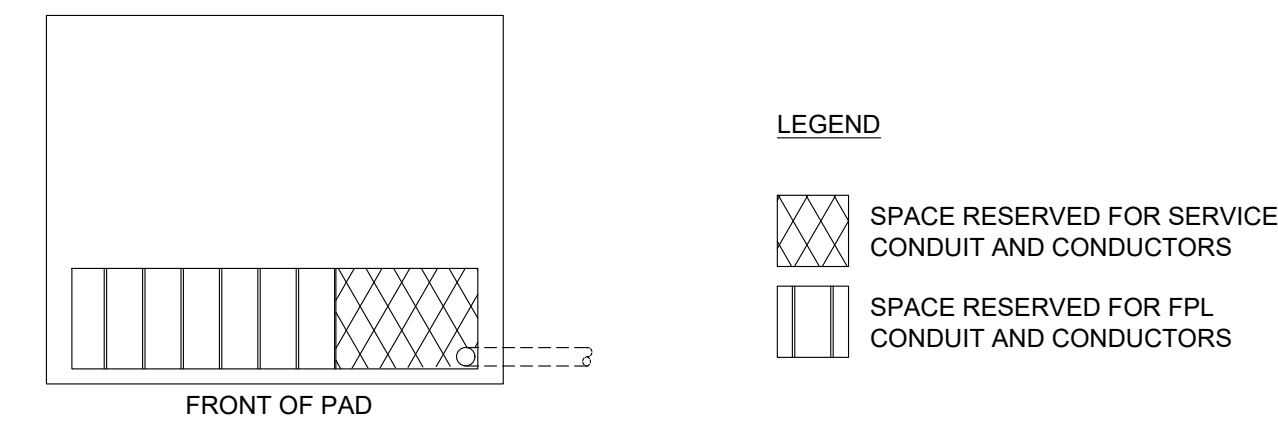
**WELL:**

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

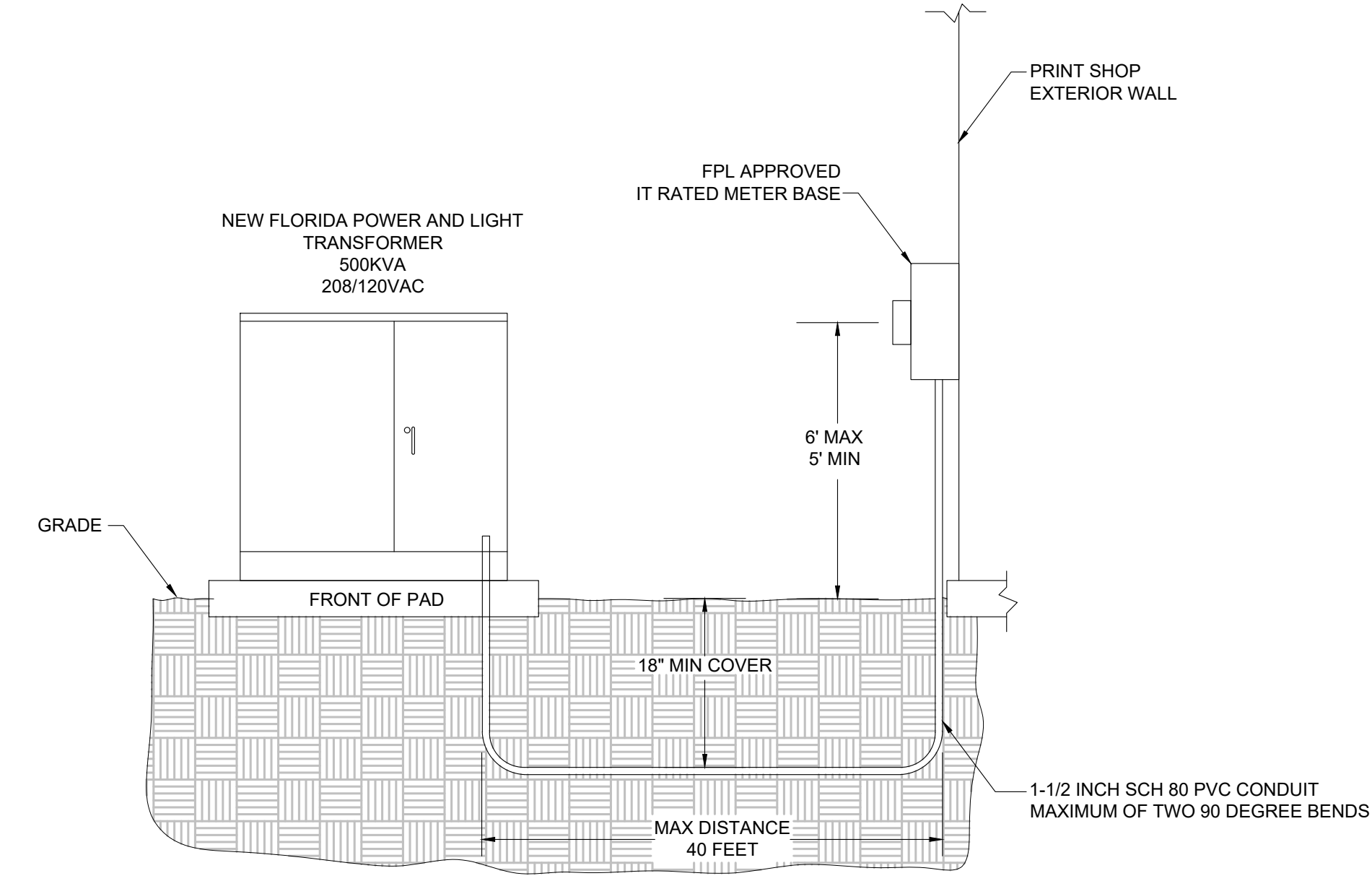
**1 MAIN SERVICE GROUND**  
 E5.1 NOT TO SCALE

**GENERAL NOTES**

1. COORDINATE METER REQUIREMENTS WITH BEVERLY HUTTO OF FLORIDA POWER AND LIGHT, 386-322-3439.
2. 40 FOOT MAX DISTANCE BETWEEN METER AND TRANSFORMER BASED ON 600:5 CT RATIO.



PLAN VIEW

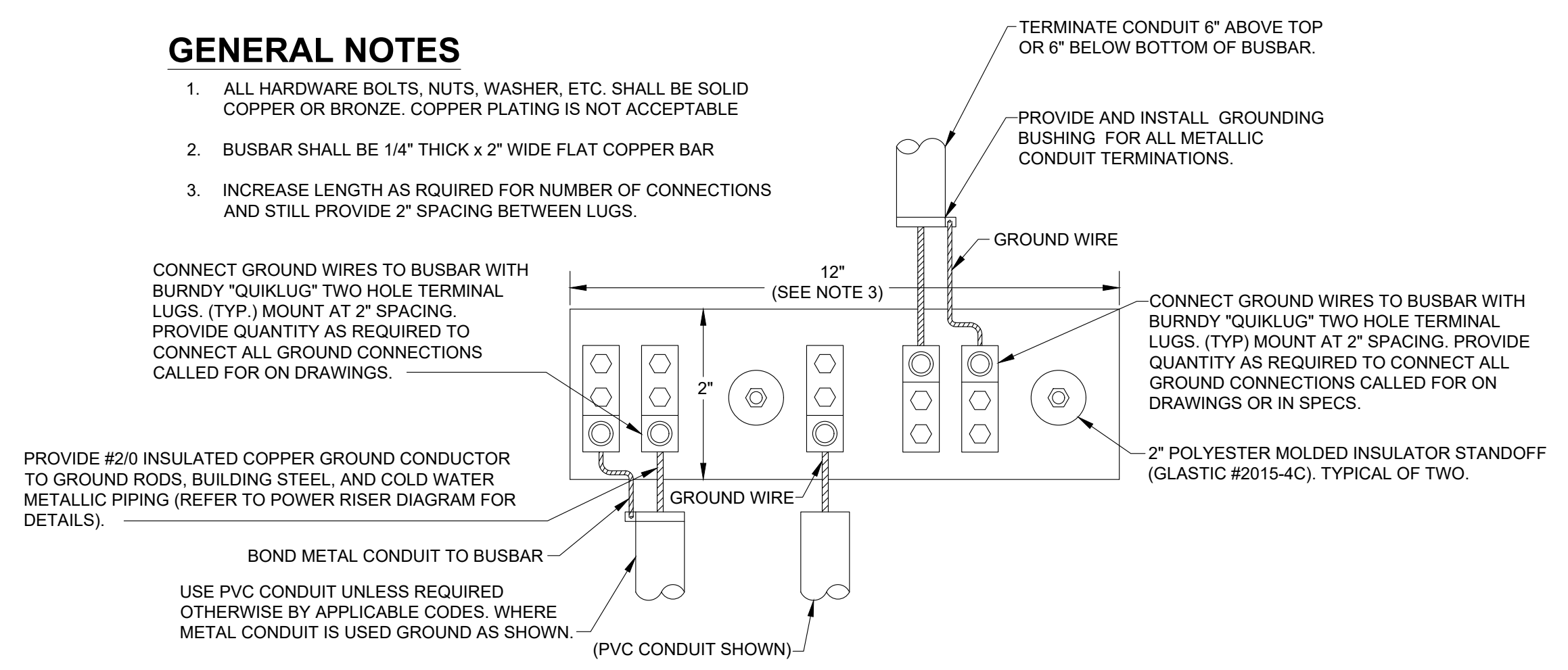


ELEVATION VIEW

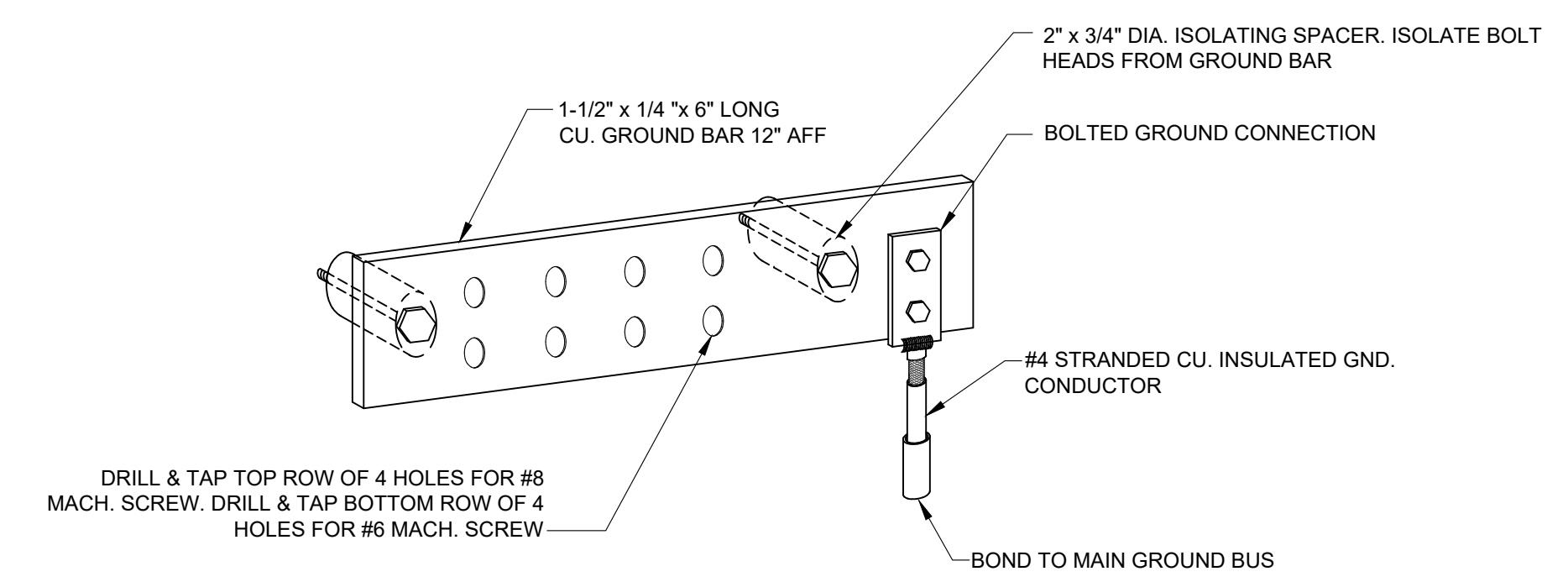
**4 METER DETAIL**  
 E5.1 NOT TO SCALE

**GENERAL NOTES**

1. ALL HARDWARE BOLTS, NUTS, WASHER, ETC. SHALL BE SOLID COPPER OR BRONZE. COPPER PLATING IS NOT ACCEPTABLE.
2. BUSBAR SHALL BE 1/4" THICK x 2" WIDE FLAT COPPER BAR
3. INCREASE LENGTH AS REQUIRED FOR NUMBER OF CONNECTIONS AND STILL PROVIDE 2" SPACING BETWEEN LUGS.



**2 MAIN GROUND BUSBAR**  
 E5.1 NOT TO SCALE



**3 TB GROUND BUSBAR**  
 E5.1 NOT TO SCALE

ISSUE FOR BID - 8/17/2019

DETAILS - ELECTRICAL

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY  
 NEW PRINT SHOP BUILDING

Date: 07/12/2019  
 Job no.: SOBIE 19005  
 Sheet no.:

E5.1

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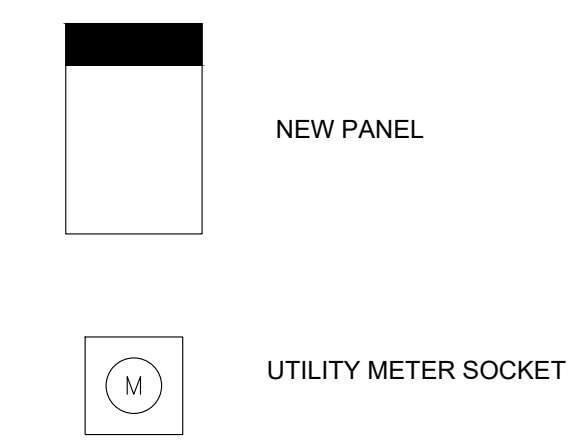
**GENERAL NOTES**

- 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, SUPPORT, AND CONDUIT FROM TRANSFORMER SECONDARY CABINET TO METER BASE. SEE METER DETAILS ON SHEET E5.1.
- BOND NEUTRAL AND GROUND 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 E5.1 FOR MGB DETAILS.

**RISER LEGEND:**



PANEL FEEDER SCHEDULE													
JOB NUMBER: 19005 DATE: 07/30/19													
FEEDER FEEDING	CIRCUIT BREAKER			FEEDER CAPACITY	FEEDER LENGTH	FEEDER VOLT DROP %	PARALLEL RUNS	PHASE WIRE	NEUTRAL WIRE	GROUND WIRE	ISOLATED GROUND	COPPER/ALUMINUM	CONDUIT SIZE
	AMP SIZE	VOLTS	PHASE										
MDP	800	208	3	840	100	0.67	2	#600	#600	N/A	N/A	COPPER	4"
DP1	400	208	3	420	75	0.50	1	#600	#600	#3	N/A	COPPER	4"
RP1	200	208	3	200	13	0.14	1	#3/0	#3/0	#6	N/A	COPPER	2"
LP1	100	208	3	100	13	0.22	1	#3	#3	#6	N/A	COPPER	1-1/4"
EL1	20	120	1	20	8	0.43	1	#12	#12	#12	N/A	COPPER	1/2"
WAREHOUSE METER BASE	200	208	3	200	40	0.42	1	#3/0	#3/0	#6	N/A	COPPER	2"

EQUIPMENT FEEDER SCHEDULE																				
JOB NUMBER: 18041 DATE: 7/10/19																				
EQUIPMENT DESCRIPTION	VOLTS	PH	NEUT Y OR N	MOTOR (LARGEST)	ADDITIONAL MOTORS		HEATER OR LIGHTING LOAD		MISC AMPS	TOTAL AMPS	P.N.L. C.B. SIZE AMPS	DISCONNECT SIZE AMPS	STARTER SIZE AMPS	VOLTAGE DROP PER PHASE	WIRE NEUT WIRE	GND WIRE	# OF RUNS	CONDUIT SIZE	NOTES	
					HP	FLA	HP	FLA												KW
DOAS-1	208	3	N						42.00	42	50	60	NF	1.84%	#8		#10	1	3/4"	
DOAS-1 OUTSIDE UNIT	208	3	N						5.00	5	15	20	NF	0.79%	#12		#12	1	1/2"	
HP-1	208	3	N						33.00	33	45	60	NF	2.21%	#8		#10	1	3/4"	
HP-2	208	3	N						18.00	18	30	30	NF	1.98%	#10		#10	1	1/2"	
HP-3	208	3	N						18.00	18	30	30	NF	2.06%	#10		#10	1	1/2"	
AHU-1	208	3	N						51.00	51	60			1.34%	#6		#10	1	1"	
AHU-2	208	3	N						8.00	8	15			0.83%	#12		#12	1	1/2"	
AHU-3	208	3	N						9.00	9	15			0.85%	#12		#12	1	1/2"	
AHU-3 HEATER	208	3	Y						42.0	42	45			1.84%	#6	#6	#10	1	1"	
AHU-3 HEATER	208	3	Y						42.0	42	45			1.59%	#6	#6	#10	1	1"	
EF-1	120	1	Y						1.0	1	20		00	0.24%	#12	#12	#12	1	1/2"	d
EF-2	120	1	Y						1.0	1	20		00	0.26%	#12	#12	#12	1	1/2"	d
DOAS-1 DAMPER	120	1	Y						3.0	3	20	20	NF	0.64%	#12	#12	#12	1	1/2"	
EW-1	208	1	Y						22.0	22	30	30	NF	1.51%	#10	#10	#10	1	1/2"	
HWRP-1	120	1	Y						4.0	4	15	20	NF	0.74%	#12	#12	#12	1	1/2"	
BAS CONTROLLER	120	1	Y						2.0	2	20			0.34%	#12	#12	#12	1	1/2"	
N PLUG-IN RACEWAY	208	3	Y						40.0	40	60			1.80%	#6	#6	#10	1	1"	
S PLUG-IN RACEWAY	208	3	Y						45.0	45	60			1.93%	#6	#6	#10	1	1"	
TRACK BUSWAY	208	3	Y						119.0	119	225			0.32%	#4/0	#4/0	#4	1	2-1/2"	

**GENERAL NOTES:**

- PROVIDE DISC. SW. AT ALL PIECES OF EQUIPMENT, UNLESS OTHERWISE NOTED ON THIS SCHEDULE.
- C.B., STARTER, DISC. & FUSE SIZES SHOWN FOR REFERENCE ONLY. SIZE AS RECOMMENDED BY EQUIPMENT MANUFACTURER. VERIFY REQUIREMENTS WITH APPROVED EQUIPMENT SHOP DRAWINGS.
- PROVIDE NEMA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SW'S MOUNTED OUTDOORS.
- COORDINATE STARTER TYPE WITH EQUIPMENT PROVIDER.
- 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.
- INCREASE CONDUCTOR SIZES AS REQUIRED TO MAINTAIN A MAXIMUM OF 3% VOLTAGE DROP BASED ON ACTUAL CIRCUIT LENGTHS AS INSTALLED.
- TOTAL AMPS SHOWN DO NOT INCLUDE NON-COINCIDENTAL LOADS.
- VOLTAGE DROP BASED ON POWER FACTOR OF 0.85.

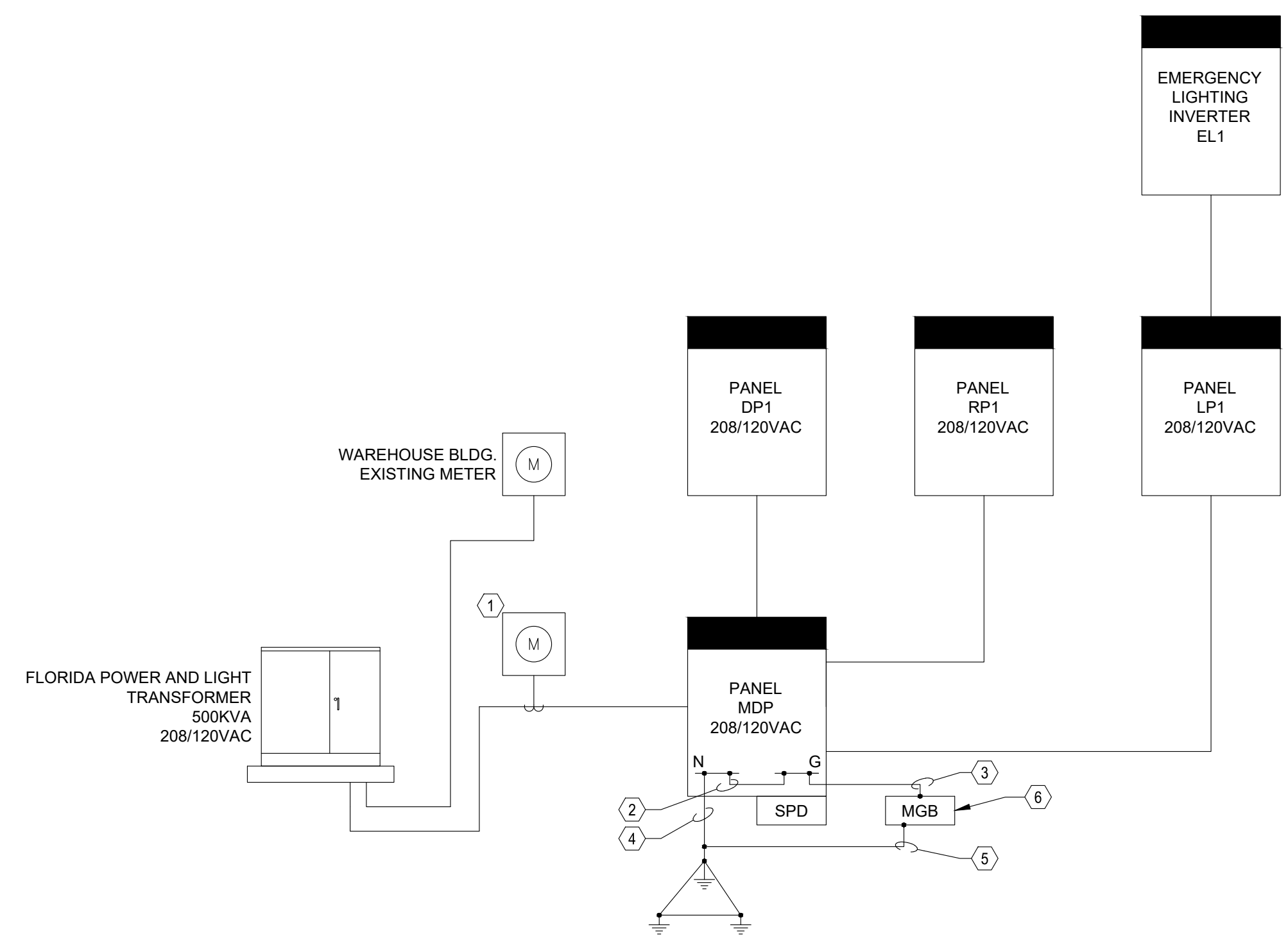
**ABBREVIATIONS:**

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 1 ENCLOSURE  
3R = NEMA 3R ENCLOSURE  
4SS = NEMA 4 W.P. STAINLESS STEEL ENCL.

**NOTES:**

- CONNECT VIA LINE VOLTAGE T'STAT. FURNISHED BY MECH. CONTRACTOR.
- CONNECT VIA CONTROL DEVICES FURNISHED BY MECH. CONTRACTOR.
- CONNECT TO LOCAL LIGHTING SWITCHLEG FROM OCCUPANCY SENSOR.
- CONNECT VIA STARTER FURNISHED BY MECH. CONTRACTOR.
- CONNECT VIA UNIT MTD DISC. SW. FURNISHED WITH EQUIPMENT.



**1 RISER DIAGRAM - ELECTRICAL**  
E6.1 NOT TO SCALE

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**RISER DIAGRAM AND FEEDER SCHEDULES**

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY  
NEW PRINT SHOP BUILDING

Date: 07/12/2019 Job no.: SOBIE 19005 Sheet no.: E6.1



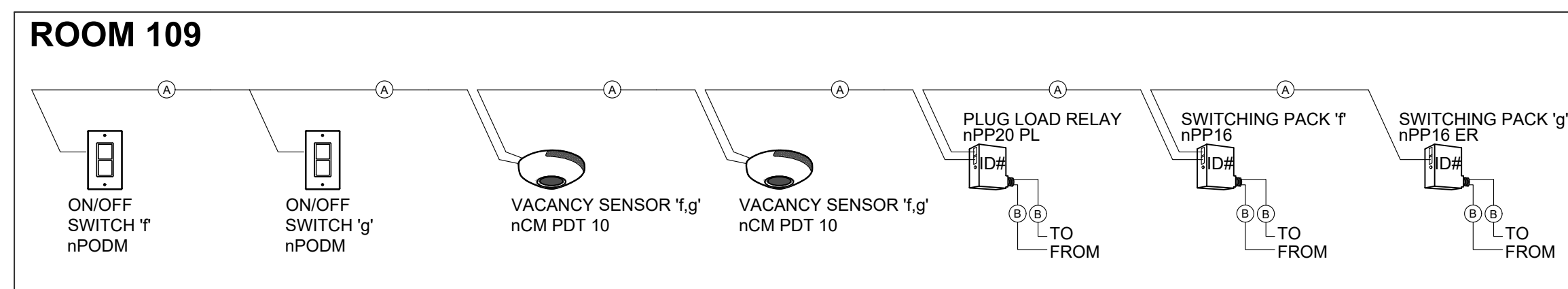
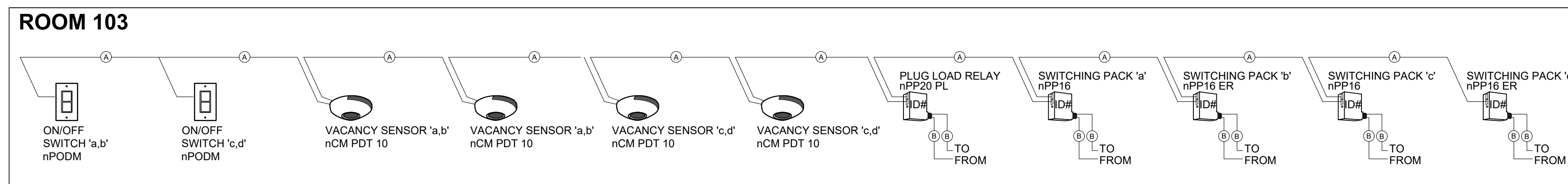
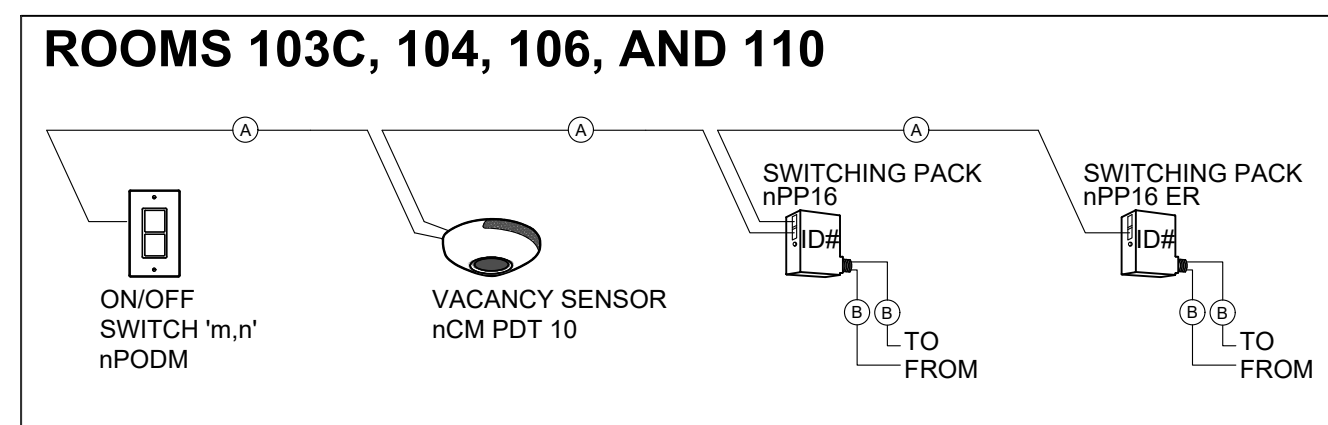
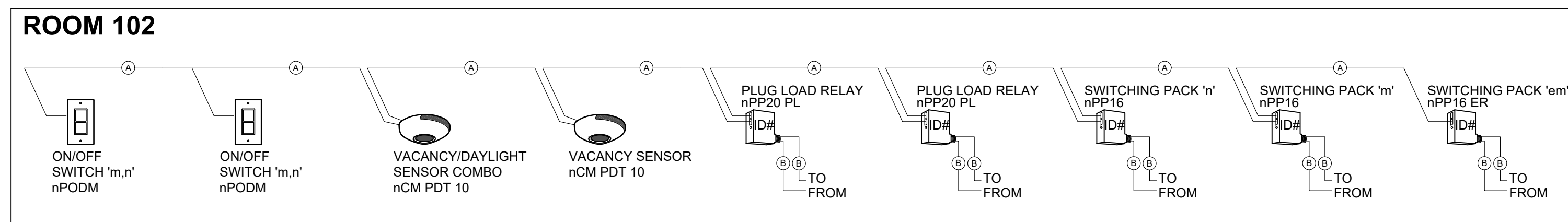
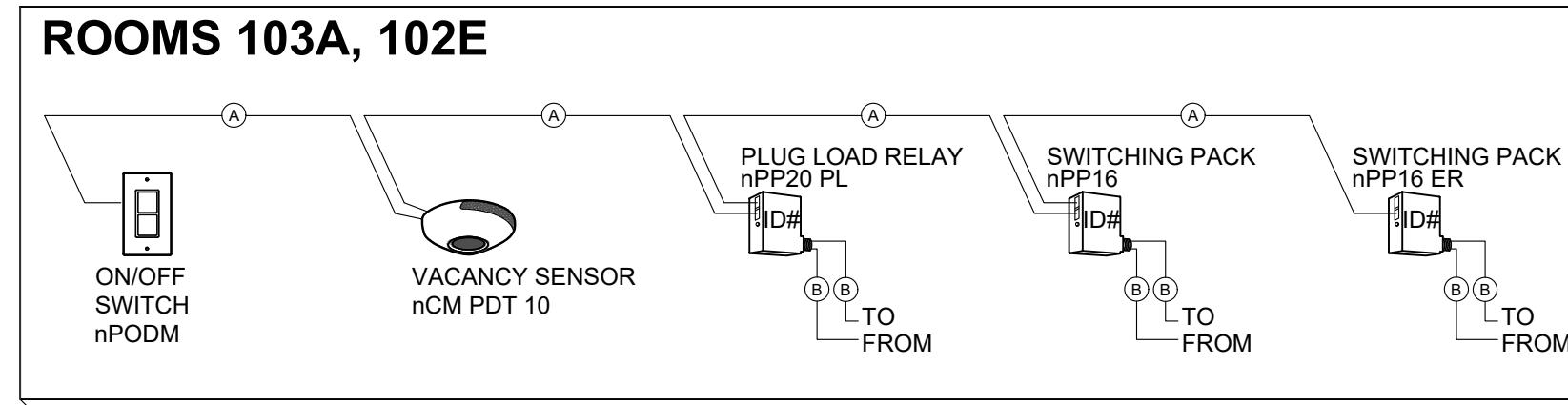
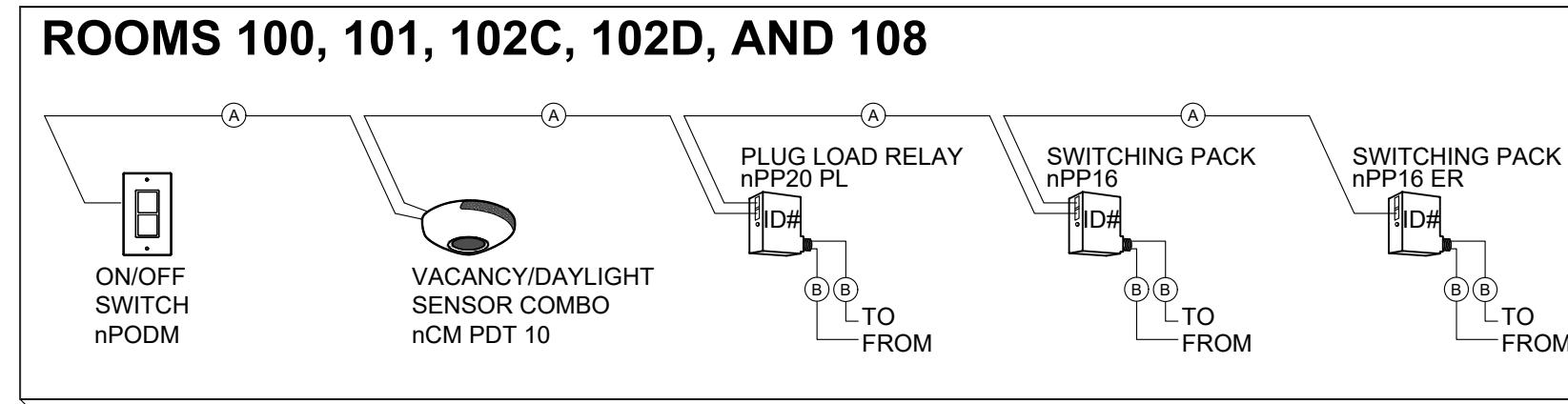


**WIRE LEGEND**

- (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).



**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 35fc 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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**EMBRY-RIDDLE AERONAUTICAL UNIVERSITY**  
**NEW PRINT SHOP BUILDING**





VOLTS L-N : 120 VOLTS PH : 208 PHASE : 3 MOUNTING : SURFACE MFR : SQ. D. TYPE : HCM		MAN 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		ENCLOSURE DATA NEMA : 1 SECTIONS : 12 WIDTH/SECT. : 32 DEPTH : 9.5								
AIC RATING (FULLY RATED OR SERIES RATED): 42 KA (MINIMUM, SEE SPECIFICATIONS)														
NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT. NUM	CKT. POLES	C.B. AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
	PANEL RP1	155	150		225	3	1	2	3	100	9		PANEL LP1	
	=====	155	150		225	3	4	3	4	100	9			
	=====	155	150		225	3	7	8	3	400	285		PANEL DP1	
	TRACK BUSWAY	119	119		225	3	7	8	3	400	285		PANEL DP1	
	=====	119	119		225	3	9	10	3	400	285			
	=====	119	119		225	3	11	12	3	400	285			
	3 FACP	5	5		20	3	13	14	3	20	3		3 SQCP	
	SPACE			0			15	16	3	30	0		SPD	
	SPACE			0			17	18	3	30	0			
	SPACE			0			19	20	3	30	0			
<p>570 : AMPS PHASE A 562 : AMPS PHASE B 562 : AMPS PHASE C</p> <p>ACTUAL CONN. LOAD : 571 206 NEC DEMAND : 565 203</p>														
<p>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) FACP CIRCUIT BREAKER TO BE IDENTIFIED IN ACCORDANCE WITH NEC 760.41(B)</p>														

VOLTS L-N : 120 VOLTS PH : 208 PHASE : 3 MOUNTING : SURFACE MFR : SQ. D. TYPE : NGOD		MAN 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		ENCLOSURE DATA NEMA : 1 SECTIONS : 1 WIDTH/SECT. : 20 DEPTH : 5.75								
AIC RATING (FULLY RATED OR SERIES RATED): 22 KA (MINIMUM, SEE SPECIFICATIONS)														
NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT. NUM	CKT. POLES	C.B. AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
	DOAS-1	42	42		50	3	1	2	3	80	51		AHU-1	
	=====	42	42		50	3	4	3	4	80	51			
	=====	42	42		50	3	5	6	3	80	51			
	DOAS-1 OUTSIDE UNIT	5	5		15	3	7	8	3	15	8		8 AHU-2	
	=====	5	5		15	3	9	10	3	15	8			
	=====	5	5		15	3	11	12	3	15	8			
	HP-1	33	33		45	3	13	14	3	45	42		42 AHU-2 HEATER	
	=====	33	33		45	3	15	16	3	45	42			
	=====	33	33		45	3	17	18	3	45	42			
	HP-2	18	18		30	3	19	20	3	15	8		8 AHU-3	
	=====	18	18		30	3	21	22	3	15	8			
	=====	18	18		30	3	23	24	3	15	8			
	HP-3	18	18		30	3	25	26	3	45	42		42 AHU-3 HEATER	
	=====	18	18		30	3	27	28	3	45	42			
	=====	18	18		30	3	29	30	3	45	42			
	BAS CONTROLLER	2	2		20	1	31	32	2	30	22		EW-1	
	EF-1	1	1		20	1	33	34	1	15	22		EW-2	
	EF-2	1	1		20	1	35	36	1	15	22		HWRP-1	
	DOAS-1 DAMPER	3	3		20	1	37	38	1	20	0		SPARE	
	SPARE			0			39	40	1	20	0		SPARE	
	SPARE			0			41	42	1	20	0		SPARE	
<p>294 : AMPS PHASE A 290 : AMPS PHASE B 272 : AMPS PHASE C</p> <p>ACTUAL CONN. LOAD : 285 103 NEC DEMAND : 285 103</p>														
<p>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.</p>														

VOLTS L-N : 120 VOLTS PH : 208 PHASE : 3 MOUNTING : SURFACE MFR : SQ. D. TYPE : NGOD		MAN 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		ENCLOSURE DATA NEMA : 1 SECTIONS : 20 WIDTH/SECT. : 20 DEPTH : 5.75								
AIC RATING (FULLY RATED OR SERIES RATED): 22 KA (MINIMUM, SEE SPECIFICATIONS)														
NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT. NUM	CKT. POLES	C.B. AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
	RM 109 LARGE FORMAT SOUTH PLUG-IN RACEWAY	45	45		80	3	1	2	3	60	40		RM 109 LARGE FORMAT NORTH PLUG-IN RACEWAY	
	=====	45	45		80	3	3	4	3	60	40			
	=====	45	45		80	3	5	6	3	60	40			
	RM 109 RECEPTACLES	3	5		20	1	7	8	1	20	8		2 RM 109 WORK STATIONS	
	=====	3	5		20	1	9	10	1	20	8			
	=====	3	5		20	1	11	12	1	20	8			
	RM 103C RECEPTACLES	5	8		20	1	13	14	1	20	3		2 RM 109 WORK STATIONS	
	=====	5	8		20	1	15	16	1	20	3			
	3 RM 103B 105.107 RECEPTACLES	5	8		20	1	17	18	1	20	5		3 RM 110 RECEPTACLES	
	=====	5	8		20	1	19	20	1	20	5			
	3 EWC	1	1		20	1	21	22	1	20	3		2 RM 108 RECEPTACLES	
	=====	1	1		20	1	23	24	1	20	3			
	=====	1	1		20	1	25	26	1	20	3			
	RESTROOM RECEPTACLES	4	6		20	1	27	28	1	20	11		2 RM 108 GFI RECEPTACLES	
	=====	4	6		20	1	29	30	1	20	11			
	=====	4	6		20	1	31	32	1	20	11			
	RM 102D 102E RECEPTACLES	4	16		20	1	33	34	1	20	5		3 RM 102 WALL RECEPTACLES	
	=====	4	16		20	1	35	36	1	20	5			
	=====	4	16		20	1	37	38	1	20	5			
	RM 102 FURNITURE	3	12		20	1	39	40	1	20	12		3 RM 102 FURNITURE	
	=====	3	12		20	1	41	42	1	20	12			
	=====	3	12		20	1	43	44	1	20	12			
	RM 103 WORK STATIONS	3	5		20	1	45	46	1	20	8		4 RM 102 FURNITURE	
	=====	3	5		20	1	47	48	1	20	8			
	=====	3	5		20	1	49	50	1	20	8			
	RM 103 WORK STATIONS	3	12		20	1	51	52	1	20	8		2 RM 103 WALL RECEPTACLE	
	=====	3	12		20	1	53	54	1	20	8			
	=====	3	12		20	1	55	56	1	20	8			
	RM 102C RECEPTACLES	2	8		20	1	57	58	1	20	6		4 RM 102B 102A RECEPTACLES	
	=====	2	8		20	1	59	60	1	20	6			
	=====	2	8		20	1	61	62	1	20	6			
	RM 102C RECEPTACLES	2	8		20	1	63	64	1	20	5		3 RM 103A RECEPTACLES	
	=====	2	8		20	1	65	66	1	20	5			
	=====	2	8		20	1	67	68	1	20	5			
	RM 100 101 RECEPTACLE	4	6		20	1	69	70	1	20	8		2 RM 103A RECEPTACLES	
	=====	4	6		20	1	71	72	1	20	8			
	=====	4	6		20	1	73	74	1	20	8			
	RM 101 TV RECEPTACLE	1	2		20	1	75	76	1	20	8		2 RM 102B TT8 RECEPTACLES	
	=====	1	2		20	1	77	78	1	20	8			
	=====	1	2		20	1	79	80	1	20	8			
	WEST OUTSIDE RECEPTACLES	1	2		20	1	81	82	1	20	8		2 RM 102B TT8 RECEPTACLES	
	=====	1	2		20	1	83	84	1	20	8			
	=====	1	2		20	1	85	86	1	20	8			
	SPARE			0			87	88	1	20	0		SPARE	
	=====			0			89	90	1	20	0			
	=====			0			91	92	1	20	0			
	SPARE			0			93	94	1	20	0		SPARE	
	=====			0			95	96	1	20	0			
	=====			0			97	98	1	20	0			
<p>156 : AMPS PHASE A 163 : AMPS PHASE B 147 : AMPS PHASE C</p> <p>ACTUAL CONN. LOAD : 155 56 NEC DEMAND : 150 54</p>														
<p>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.</p>														

VOLTS L-N : 120 VOLTS PH : 208 PHASE : 3 MOUNTING : SURFACE MFR : SQ. D. TYPE : NGOD		MAN OPTIONS REQUIRED S.E. RATED : N/A GFI PROT. : N/A SHUNT TRIP : N/A		PANEL : LP1 MCB : N/A AMPS MLO : 100 AMPS PROVIDE NEW PANEL		ENCLOSURE DATA NEMA : 1 SECTIONS : 1 WIDTH/SECT. : 20 DEPTH : 5.75								
AIC RATING (FULLY RATED OR SERIES RATED): 22 KA (MINIMUM, SEE SPECIFICATIONS)														
NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT. NUM	CKT. POLES	C.B. AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
	PRINT SHOP PRODUCTION	778	6		20	1	1	2	1	20	3		389 LARGE FORMAT	
	=====	487	4		20	1	3	4	1	20	2		195 LARGE FORMAT	
	=====	97	1		20	1	5	6	1	20	1		99 LOBBY / CONF	
	ELEC / COMM RM	40	0		20	1	7	8	1	20	2		291 OPEN OFFICE	
	=====	257	2		20	1	9	10	1	20	0		53 REST ROOMS	
	WORK ROOM	32			20	1	11	12	1	20			0 PANEL ELPI	
	=====	97	1		20	1	13	14	1	20	0		SPARE	
	EXTERIOR LIGHTS	178			20	1	15	16	1	20	0		SPARE	
	MECH / JAN / SEC STRG	134			20	1	17	18	1	20	0		SPARE	
	STORAGE RM													