

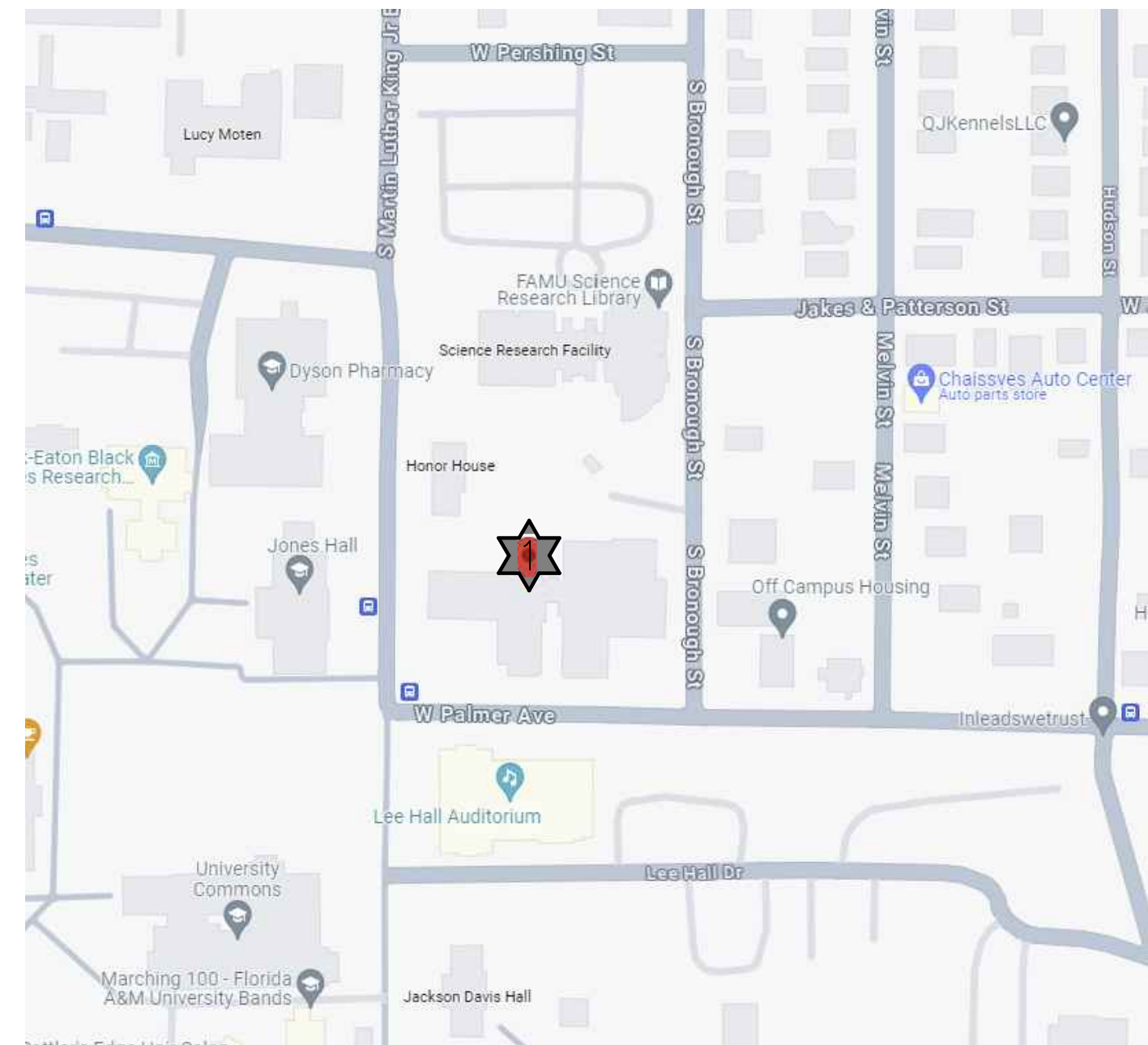
WARE-RHANEY ELECTRICAL GEAR REPLACEMENT

FOR
FLORIDA A&M UNIVERSITY
TALLAHASSEE, FL

MARRCH 29, 2024
CONSTRUCTION DRAWINGS

PROJECT LOCATION

WARE-RHANEY BUILDING
350-498 WEST PALMER AVENUE
TALLAHASSEE, FL 32301



CODES AND STANDARDS

FLORIDA BUILDING CODE SEVENTH EDITION, 2020
FLORIDA FIRE PREVENTION CODE SEVENTH EDITION, 2020
STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES, 2014
NATIONAL ELECTRIC CODE, NFPA 70, 2017

INDEX OF DRAWINGS

ELECTRICAL:	
E-001	ELECTRICAL GENERAL NOTES, LEGEND, AND POWER RISER DIAGRAM
E-002	PANEL SCHEDULES
E-101	POWER PLAN - GROUND FLOOR
E-102	POWER PLAN - FIRST FLOOR
E-103	POWER PLAN - SECOND FLOOR
E-104	POWER PLAN - THIRD FLOOR

STATEMENT OF COMPLIANCE

TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE

ENGINEER OF RECORD: ANTHONY L. DAVIS, PE FL LICENSE 57419

DESIGN TEAM

ELECTRICAL/PRIME:

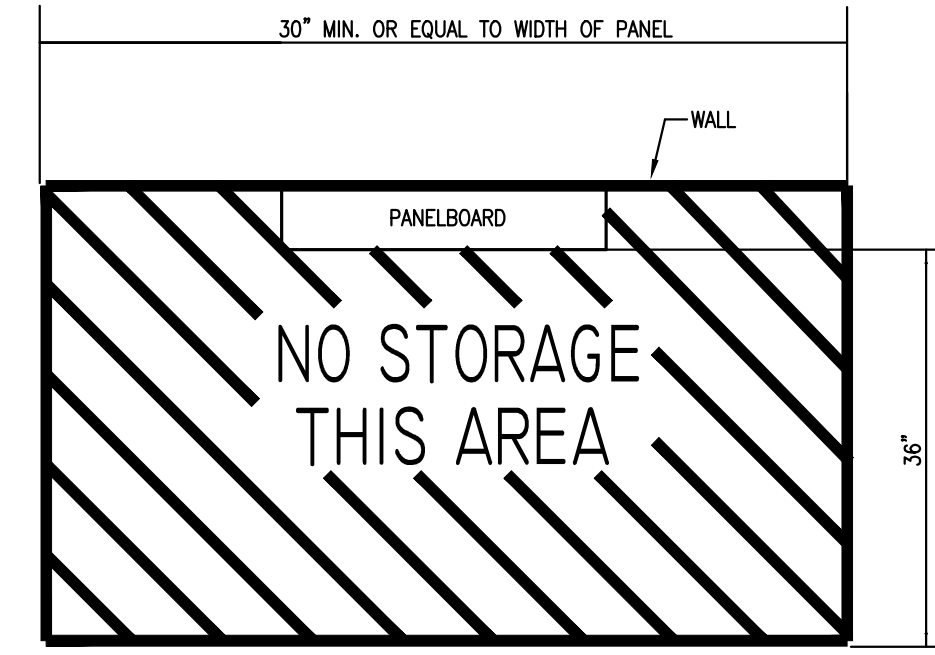


WATFORD
ENGINEERING

4452 Clinton Street, Marianna, Florida 32446
850.526.3447 Project Number: 2023-085
Florida Certificate of Authorization: 27825
Anthony L. Davis, PE Florida License 57419

ELECTRICAL GENERAL NOTES

- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO A/V DRAWINGS FOR REQUIRED RACEWAYS, EXACT SIZE, AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL 'AV' EQUIPMENT LOCATIONS TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
- ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE AUDIO-VISUAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
- COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE, 2017 NATIONAL ELECTRIC CODE AND 2020 FBC. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
- OBTAIN ARCHITECT'S/ENGINEER'S APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.
- TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75deg C PER NEC 2011 ART. 110.14 & TABLE 310.15(B)(16).
- WHERE USED, PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN ACCORDANCE WITH NEC 210.4(B).



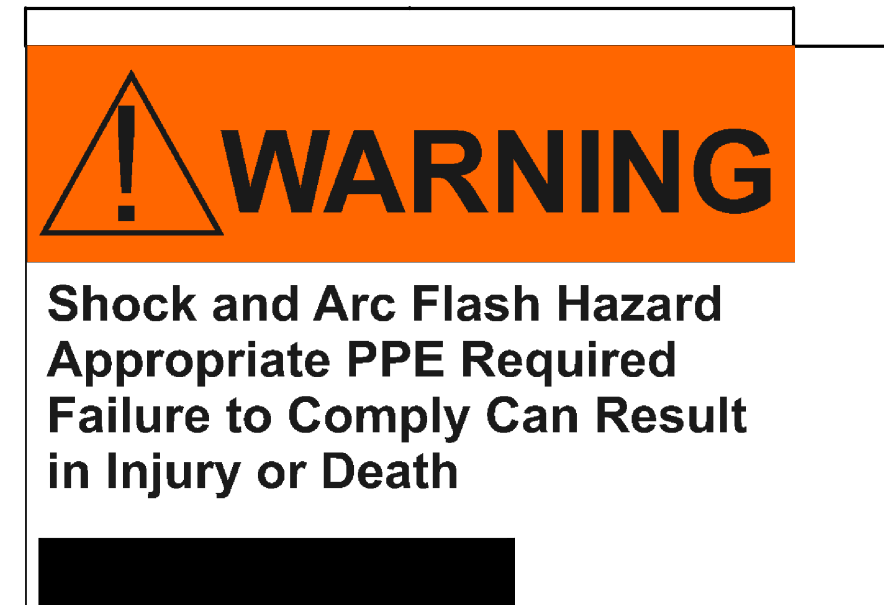
TYPICAL CLEARANCE AT ELECTRICAL PANELS
NOT TO SCALE

ELECTRICAL LEGEND

- PANELS AND POWER**
- 120/208 VOLT PANELBOARD
 - EXISTING 120/208 VOLT PANELBOARD
 - NON-FUSIBLE DISCONNECT SWITCH: XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
- MISCELLANEOUS**
- A.F.F. ABOVE FINISH FLOOR
 - B.F.C. BELOW FINISHED CEILING
- BRANCH CIRCUITING**
- RUN CONCEALED UNDER FLOOR OR IN GRADE
 - RUN CONCEALED IN CEILING OR WALLS
 - HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2#12, 1#12 GROUND - 1/2" C; 3 #12, 1 #12 GROUND - 1/2" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
 - LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
 - SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES

DEMOLITION NOTES

- ALL EXISTING SYSTEMS AND CONDITIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXISTING ELECTRICAL CIRCUITS OF POWER, RECEPTACLES, LIGHTING, ETC. BEING REMOVED MAY NOT BE SHOWN ON THESE DOCUMENTS, BUT ARE TO BE REMOVED AS REQUIRED TO BUILD THIS PROJECT AND TO PERMIT NEW FINISHES, WALLS, ETC. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL NOTIFY THE ARCHITECT OF DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST AND SHALL PERFORM ANY ADDITIONAL WORK NECESSARY TO PERFORM THE WORK AS SHOWN AND SPECIFIED.
- IF A DEVICE IS BEING REMOVED AND THE CIRCUIT FEEDS OTHER LOADS FROM THE DEVICE, THEN THE WIRING SHALL BE MADE CONTINUOUS TO THE REMAINING LOADS. NO CIRCUIT CONTINUITY SHALL BE LOST.
- IF A DEVICE IS BEING REMOVED AND NOT PART OF A DEMO WALL, THAT LOCATION SHALL BE RESTORED TO MATCH ADJACENT SURFACE.
- REMOVE ALL DISCONNECTS, WIRING, AND CONDUITS SERVING MECHANICAL EQUIPMENT BEING REMOVED OR RELOCATED.
- CONTRACTOR TO REMOVE ALL CONDUITS, & ASSOCIATED WIRING FROM DEVICES BEING REMOVED BACK TO PANEL UNLESS NOTED OTHERWISE. WHEN ALL LOADS ON EXISTING BREAKERS ARE REMOVED, RELABEL BREAKER AS 'SPARE'.



NOTES:

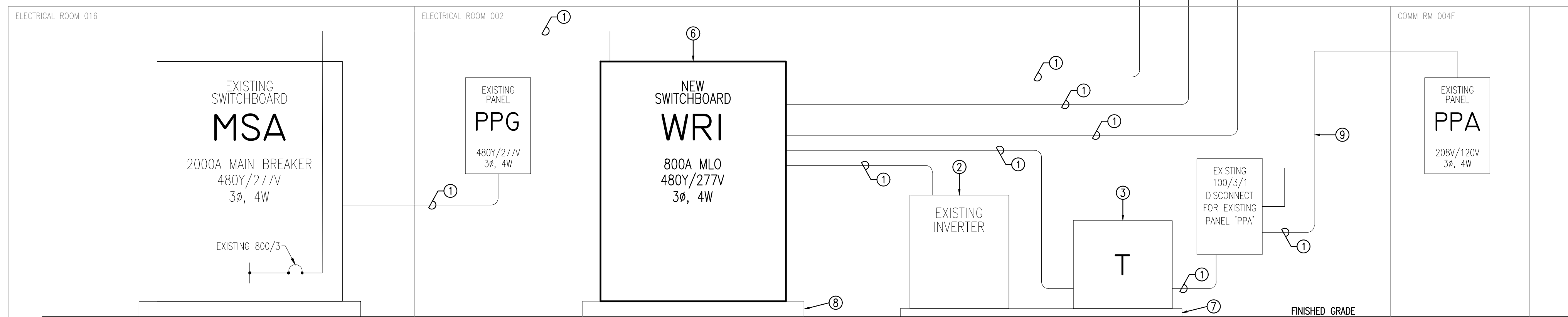
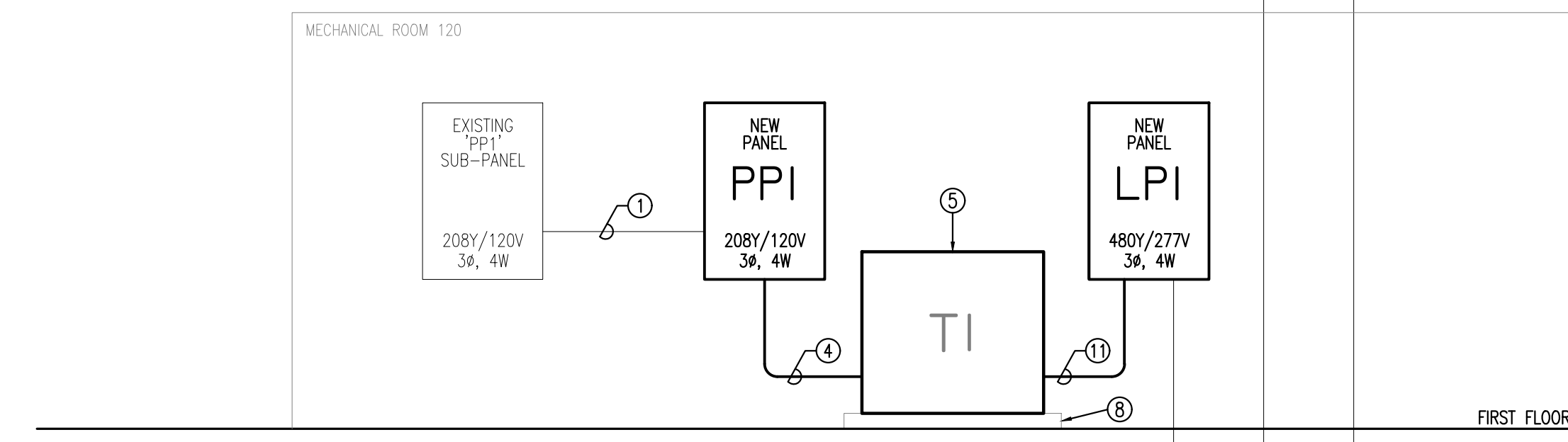
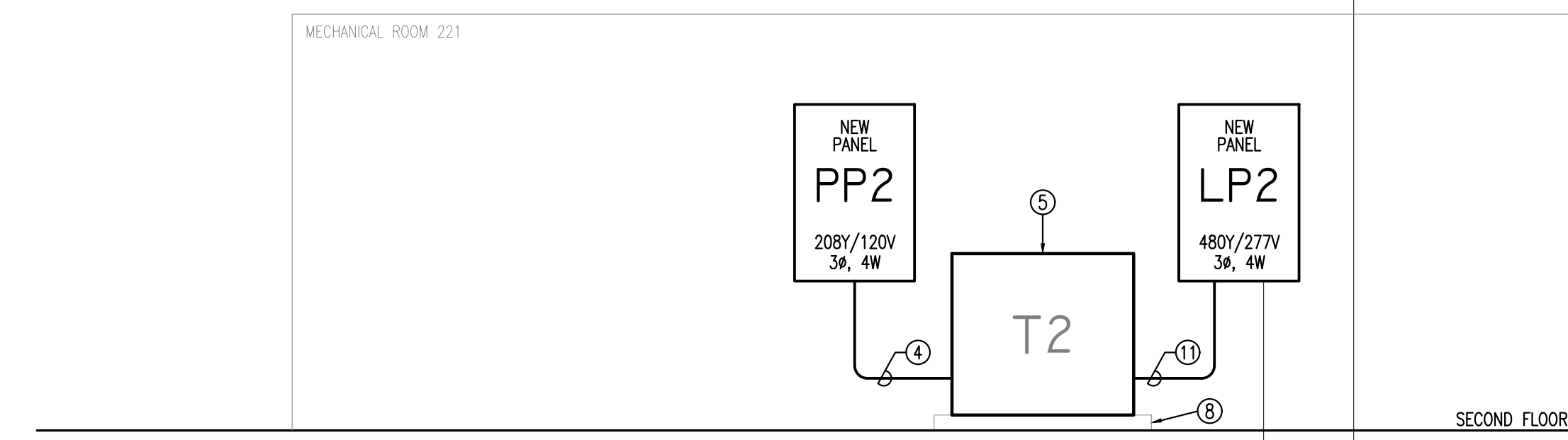
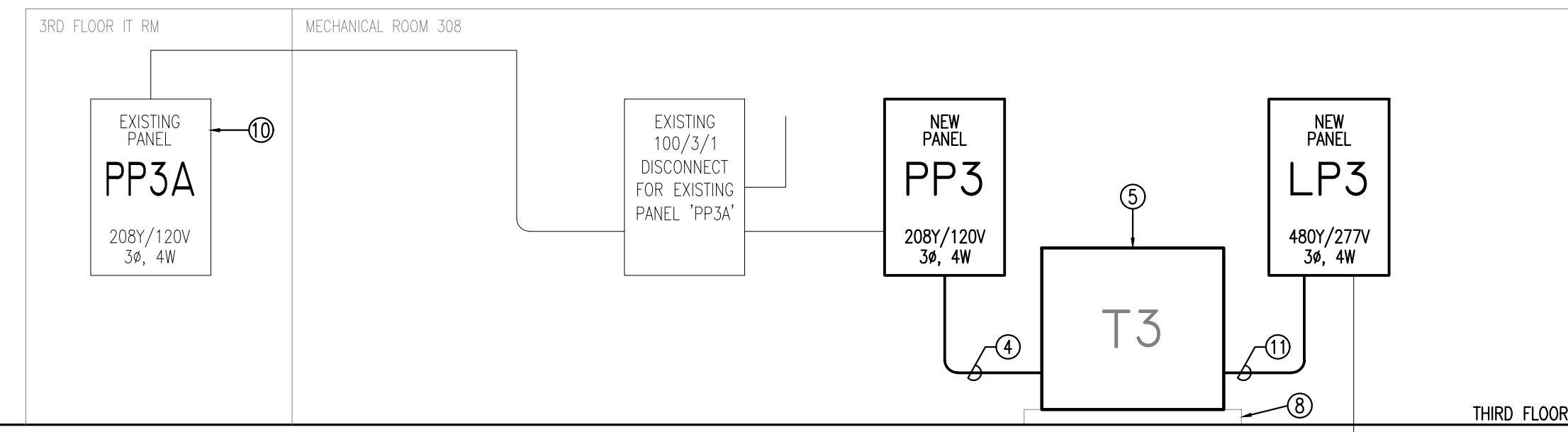
- PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
- THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
- THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
- THE SIZE OF THE LABEL SHALL BE MINIMUM:

EQUIPMENT TYPE	HEIGHT	WIDTH
INDOOR	2"	3"
OUTDOOR	3"	4.5"

ARC FLASH WARNING LABEL

KEYNOTES:

- EXISTING FEEDER TO REMAIN. RECONNECT TO NEW EQUIPMENT WHERE APPLICABLE.
- EXISTING EMERGENCY BATTERY BACK-UP AND INVERTER TO REMAIN. RECONNECT TO NEW SWITCHGEAR.
- EXISTING TRANSFORMER TO REMAIN. RECONNECT TO NEW SWITCHGEAR.
- INSTALL 4#2/0, 1#6 GND, IN 2" C.
- 45KVA DRY TYPE TRANSFORMER; 480Y/277V - 208Y/120V.
- REPLACE EXISTING 800A, 480Y/277V, 3# 4W SWITCHGEAR WITH NEW 800A, 480Y/277V, 3# 4W SWITCHGEAR. NEW SWITCHGEAR SHALL HAVE ADEQUATE SPACES TO RE-FEED ALL EXISTING EQUIPMENT. REFER TO SHEET 'E-002' FOR SWITCHGEAR SCHEDULE. NEW SWITCHGEAR GROUND IS TO BE BONDED TO EXISTING SERVICE ENTRANCE GROUND.
- EXISTING HOUSEKEEPING PAD TO REMAIN.
- 4" HIGH HOUSEKEEPING PAD SHALL BE 4" LARGER THAN FOOTPRINT OF EQUIPMENT. COORDINATE FINAL MOUNTING LOCATION WITH OWNER.
- PANEL IS LOCATED IN ADJACENT GROUND FLOOR AREA IN 'COMM RM 004F' AND IS NOT IS NOT PART OF PROJECT SCOPE AND IS TO REMAIN AS IS.
- PANEL IS LOCATED DOWN CORRIDOR FROM ELECTRICAL ROOM AND IS NOT IS NOT PART OF PROJECT SCOPE AND IS TO REMAIN AS IS.
- INSTALL 4#4, 1#8 GND, IN 1-1/4" C.



POWER RISER DIAGRAM
N.T.S.



WATFORD ENGINEERING
4452 Clinton Street, Marianna, Florida 32446
850.526.3447 www.watford-engineering.com
Florida Certificate of Authorization: 27825

Anthony L Davis, PE Florida License 57419

FOR CONSTRUCTION

Anthony L Davis, State of Florida, Professional Engineer, License No. 57419
This item has been digitally signed and sealed by Anthony L Davis on the date indicated here.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Florida A & M University
WARE-RHANEY ELECTRICAL
GEAR REPLACEMENT
350-498 W PALMER AVE.
TALLAHASSEE, FL 32301

No.	Description	Date

PROJECT NUMBER: 2023-085
DATE: 03-29-2024
DRAWN BY: SBH
DESIGNED BY: ALD

ELECTRICAL GENERAL NOTES, LEGEND, AND POWER RISER DIAGRAM

PROPRIETARY RIGHT CLAUSE: INFORMATION AND DATA CONTAINED ON THIS DRAWING IS THE SOLE PROPERTY OF WATFORD ENGINEERING, INC. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF WATFORD ENGINEERING, INC. IS STRICTLY PROHIBITED.



WATFORD ENGINEERING

4452 Clinton Street, Marianna, Florida 32446
850.526.3447 www.watford-engineering.com
Florida Certificate of Authorization: 27825

Anthony L Davis, PE Florida License 57419

FOR CONSTRUCTION

Florida A & M University
WARE-RHANEY ELECTRICAL
GEAR REPLACEMENT

350-498 W PALMER AVE.
TALLAHASSEE, FL 32301

No.	Description	Date

PROJECT NUMBER: 2023-085
DATE: 03-29-2024
DRAWN BY: KEF
DESIGNED BY: ALD

PANEL SCHEDULES

277/480 VOLT 3ø 4W
225 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
PANEL 'LP3'

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT
1	LIGHTING	1	20	---	20	1	LIGHTING	2
3	LIGHTING	1	20	---	20	1	LIGHTING	4
5	LIGHTING	1	20	---	20	1	LIGHTING	6
7	LIGHTING	1	20	---	20	1	LIGHTING	8
9	FAN TERMINAL UNITS	1	20	---	20	1	FAN TERMINAL UNIT	10
11	FAN TERMINAL UNITS	1	20	---	20	1	FAN TERMINAL UNIT	12
13	FAN TERMINAL UNITS	1	20	---	20	1	FAN TERMINAL UNIT	14
15	FAN TERMINAL UNITS	1	20	---	20	1	FAN TERMINAL UNIT	16
17	SPACE	---	---	---	---	---	SPACE	18
19	SPACE	---	---	---	---	---	SPACE	20
21	SPACE	---	---	---	---	---	SPACE	22
23	SPACE	---	---	---	---	---	SPACE	24
25	SPACE	---	---	---	---	---	SPACE	26
27	SPACE	---	---	---	---	---	SPACE	28
29	SPACE	---	---	---	---	---	SPACE	30
31	SPACE	---	---	---	---	---	SPACE	32
33	SPACE	---	---	---	---	---	SPACE	34
35	SPACE	---	---	---	---	---	SPACE	36
37	↑	↑	↑	↑	↑	↑	↑	38
39	AHU-3 & EF-3	3	20	---	70	3	TRANSFORMER	40
41	↓	↓	↓	↓	↓	↓	↓	42

Ⓞ HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

277/480 VOLT 3ø 4W
225 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
PANEL 'LP2'

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT
1	LIGHTING	1	20	---	20	1	LIGHTING	2
3	LIGHTING	1	20	---	20	1	LIGHTING	4
5	FAN TERMINAL UNITS	1	20	---	20	1	LIGHTING	6
7	FAN TERMINAL UNITS	1	20	---	20	1	LIGHTING	8
9	FAN TERMINAL UNITS	1	20	---	20	1	FAN TERMINAL UNITS	10
11	FAN TERMINAL UNITS	1	20	---	20	1	FAN TERMINAL UNITS	12
13	FAN TERMINAL UNITS	1	20	---	20	1	FAN TERMINAL UNITS	14
15	FAN TERMINAL UNITS	1	20	---	20	1	SPARE	16
17	SPACE	---	---	---	---	---	SPACE	18
19	SPACE	---	---	---	---	---	SPACE	20
21	SPACE	---	---	---	---	---	SPACE	22
23	SPACE	---	---	---	---	---	SPACE	24
25	SPACE	---	---	---	---	---	SPACE	26
27	SPACE	---	---	---	---	---	SPACE	28
29	SPACE	---	---	---	---	---	SPACE	30
31	SPACE	---	---	---	---	---	SPACE	32
33	SPACE	---	---	---	---	---	SPACE	34
35	SPACE	---	---	---	---	---	SPACE	36
37	↑	↑	↑	↑	↑	↑	↑	38
39	AHU-2 & EF-2	3	20	---	70	3	TRANSFORMER T-2	40
41	↓	↓	↓	↓	↓	↓	↓	42

Ⓞ HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

277/480 VOLT 3ø 4W
225 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
PANEL 'LPI'

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT
1	LIGHTING	1	20	---	20	1	LIGHTING	2
3	LIGHTING	1	20	---	20	1	LIGHTING	4
5	LIGHTING	1	20	---	20	1	LIGHTING	6
7	EXTERIOR LIGHTING	1	20	---	20	1	TERRACE LIGHTING	8
9	FAN TERMINAL UNITS	1	20	---	20	1	FAN TERMINAL UNIT	10
11	FAN TERMINAL UNITS	1	20	---	20	1	FAN TERMINAL UNIT	12
13	GROUND FLOOR LIGHTING	1	20	---	20	1	FAN TERMINAL UNIT	14
15	SPARE	1	20	---	20	1	FAN TERMINAL UNIT	16
17	SPARE	1	20	---	20	1	SPARE	18
19	SPACE	---	---	---	---	---	SPACE	20
21	SPACE	---	---	---	---	---	SPACE	22
23	SPACE	---	---	---	---	---	SPACE	24
25	SPACE	---	---	---	---	---	SPACE	26
27	SPACE	---	---	---	---	---	SPACE	28
29	SPACE	---	---	---	---	---	SPACE	30
31	↑	↑	↑	↑	↑	↑	↑	32
33	VACUUM PUMP & AIR COMPRESSOR	3	20	---	20	3	P-7, P-8, P-9, & AIR COMPRESSOR	34
35	↓	↓	↓	↓	↓	↓	↓	36
37	↑	↑	↑	↑	↑	↑	↑	38
39	AHU-1 & EF-1	3	20	---	70	3	TRANSFORMER T-1	40
41	↓	↓	↓	↓	↓	↓	↓	42

Ⓞ HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
175 AMP MAIN BREAKER

CIRCUIT BREAKER PANEL SCHEDULE
PANEL 'PP3'

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT
1	RECEPTACLES	1	20	---	20	1	RECEPTACLES	2
3	RECEPTACLES	1	20	---	20	1	RECEPTACLES	4
5	RECEPTACLES	1	20	---	20	1	RECEPTACLES	6
7	RECEPTACLES	1	20	---	20	1	RECEPTACLES	8
9	SPARE	1	20	---	20	1	302 FLOOR S. WALL	10
11	SPARE	1	20	---	20	1	302 S. WALL	12
13	302 COMPUTER LAB	1	20	---	20	1	302 COMP. LAB	14
15	302 COMPUTER LAB	1	20	---	20	1	302 COMP. LAB	16
17	RECEPTACLES TELEPHONE	1	20	---	20	1	EF-3 CB19-SIEMENS FVAV	18
19	HONEYWELL	1	20	---	20	1	RECEPTACLES	20
21	PUMP-4	1	20	---	20	1	RECEPTACLES	22
23	PENTHOUSE	1	20	---	20	1	PENTHOUSE	24
25	SPACE	---	---	---	---	---	RECEPTACLES 302 E. WALL	26
27	SPACE	---	---	---	---	---	RECEPTACLES 302 P. POLE B & C	28
29	SPACE	---	---	---	---	---	↓	30
31	SPACE	---	---	---	---	---	34 CKT 301 305 ROOM	32
33	SPACE	---	---	---	---	---	36 CKT 301 ROOM	34
35	SPACE	---	---	---	---	---	ROOM 32,34,36	36
37	SPACE	---	---	---	---	---	SPACE	38
39	SPACE	---	---	---	---	---	SPACE	40
41	SPACE	---	---	---	---	---	SPACE	42

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
175 AMP MAIN BREAKER

CIRCUIT BREAKER PANEL SCHEDULE
PANEL 'PP2'

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT
1	EXISTING	1	20	---	20	1	EXISTING	2
3	EXISTING	1	20	---	20	1	EXISTING	4
5	EXISTING	1	20	---	20	1	EXISTING	6
7	EXISTING	1	20	---	20	1	EXISTING	8
9	EXISTING	1	20	---	20	1	EXISTING	10
11	EXISTING	1	20	---	20	1	EXISTING	12
13	EXISTING	1	20	---	20	1	EXISTING	14
15	EXISTING	1	20	---	20	1	EXISTING	16
17	EXISTING	1	20	---	20	1	EXISTING	18
19	EXISTING	1	20	---	20	1	EXISTING	20
21	EXISTING	1	20	---	20	1	EXISTING	22
23	EXISTING	1	20	---	20	1	EXISTING	24
25	EXISTING	1	20	---	20	1	EXISTING	26
27	EXISTING	1	20	---	20	1	EXISTING	28
29	EXISTING	1	20	---	20	1	EXISTING	30
31	EXISTING	1	20	---	---	---	SPACE	32
33	EXISTING	1	20	---	---	---	SPACE	34
35	EXISTING	2	60	---	20	1	EXISTING	36
37	↓	↓	↓	↓	↓	↓	EXISTING	38
39	SPACE	---	---	---	---	---	↓	40
41	SPACE	---	---	---	---	---	EXISTING	42

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

CIRCUIT IDENTIFICATIONS NOT KNOWN AT TIME OF DESIGN. FIELD VERIFY CIRCUIT ID AND LABEL ACCORDINGLY.

120/208 VOLT 3ø 4W
175 AMP MAIN BREAKER

CIRCUIT BREAKER PANEL SCHEDULE
PANEL 'PPI'

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT
1	RECEPTACLES	1	20	---	20	1	SPARE	2
3	RECEPTACLES	1	20	---	20	1	RECEPTACLES	4
5	RECEPTACLES	1	20	---	20	1	RECEPTACLES 112/114/116	6
7	SUBFEED PANELS	2	100	---	20	1	AC RECEPTACLES	8
9	↓	↓	↓	↓	↓	↓	RECEPTACLES	10
11	RECEPTACLES	1	20	---	20	1	RECEPTACLES	12
13	RECEPTACLES	1	20	---	20	1	RECEPTACLES	14
15	RECEPTACLES	1	20	---	20	1	RECEPTACLES	16
17	RECEPTACLES	1	20	---	20	1	RECEPTACLES	18
19	REFRIGERATOR	1	20	---	20	1	RECEPTACLES	20
21	LOUNGE	1	20	---	20	1	TELEPHONE	22
23	LOUNGE	1	20	---	20	1	TELEPHONE	24
25	PHOTOCELL/TIME CLOCK	1	20	---	20	1	FIRE ALARM CONTROL PANEL	26
27	ELEVATOR CAR LIGHTS	1	20	---	20	1	FIRE ALARM CONTROL PANEL	28
29	ELEVATOR CAR LIGHTS	1	20	---	20	1	EF-9 & UNIT HEATER	30
31	HVAC CONTROLS	1	20	---	20	1	EF-8	32
33	GROUND FLOOR RECEPTACLES CONTROL AIR COMP	1	20	---	20	1	EF-7 & RECIRC. PUMP	34
35	SPARE WEST WALL PLUGS	1	20	---	20	1	PLUGS ON EAST WALL	36
37	PLUGS ON EAST WALL	1	20	---	20	1	LECTURE HALL LIGHTING	38
39	ROOM 106	1	20	---	20	1	WEST WALL PLUGS	40
41	ROOM 106	1	20	---	↓	↓	↓	42

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 1ø 3W
100 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
EXISTING UNNAMED 'PPI' SUBPANEL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT
1	ROOM 106 & UPS	2	50	---	20	1	RECEPT 109 B	2
3	↓	↓	↓	↓	↓	↓	RECEPT	4
5	ROOM 106 & REC	2	20	---	20	2	ROOM 106 REC.	6
7	↓	↓	↓	↓	↓	↓	↓	8
9	109 B UPS PODIUM	1	20	---	20	2	UPS	10
11	ROOM 123 CAT EYE TV	1	20	---	↓	↓	↓	12
13	SPACE	---	---	---	---	---	SPACE	14
15	SPACE	---	---	---	---	---	SPACE	16

Ⓞ EXISTING PAIR OF TANDEM BREAKERS

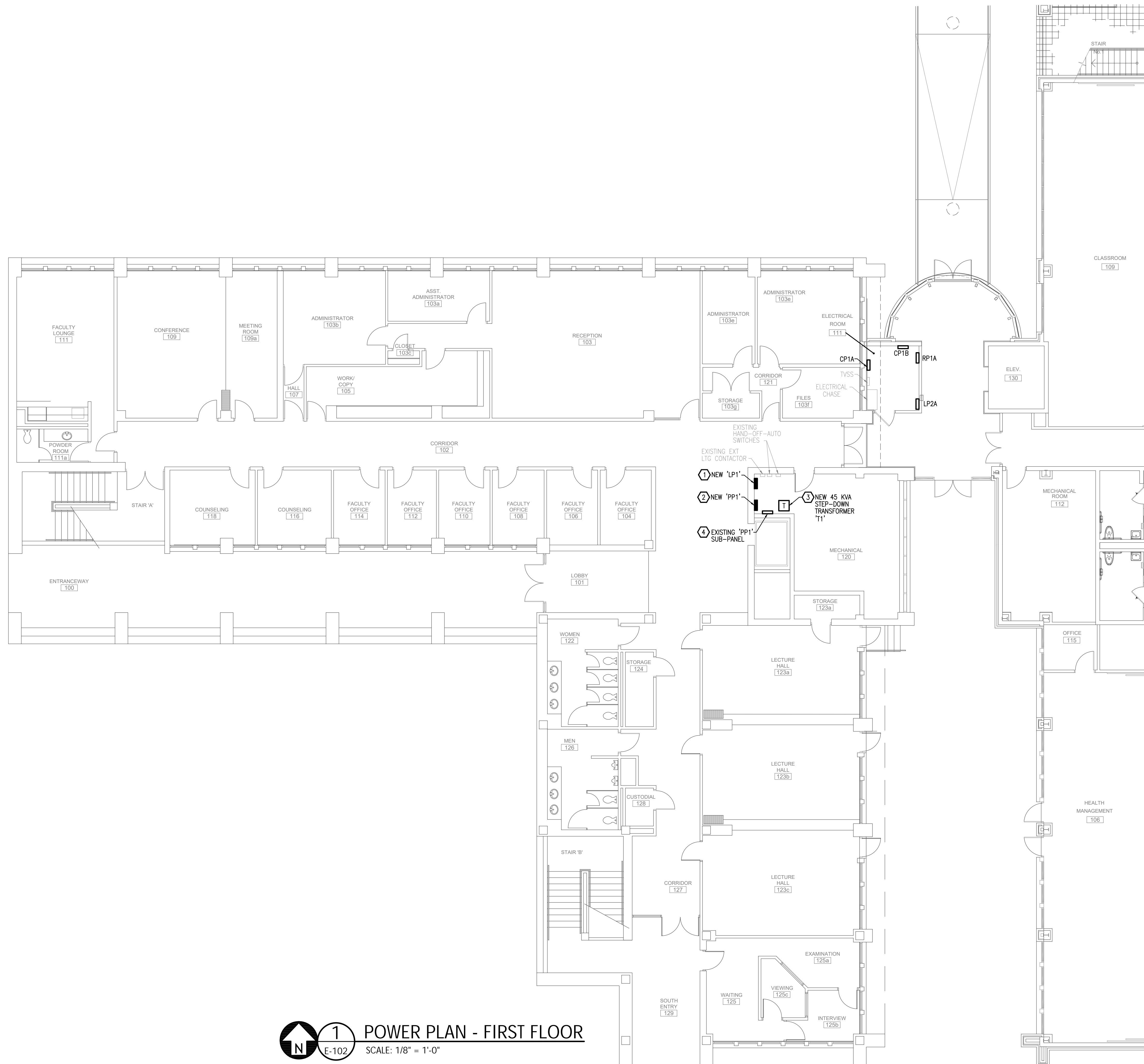
PROPRIETARY RIGHT CLAUSE: INFORMATION AND DATA CONTAINED ON THIS DRAWING IS THE PROPERTY OF WATFORD ENGINEERING, INC. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF WATFORD ENGINEERING, INC. IS STRICTLY PROHIBITED. THIS LEGEND SHALL BE MARKED ON ANY REPRODUCTIONS HEREON IN WHOLE OR IN PART. WATFORD ENGINEERING, INC. COPYRIGHT 2020

GENERAL NOTES

1. ALL FEDERAL PACIFIC EQUIPMENT BEING REMOVED IS TO BE RETURNED TO OWNER.

SHEET NOTES

1. REPLACE EXISTING FEDERAL PACIFIC PANEL 'LP1' WITH NEW 225A, MLO, 480Y/277V, 3Ø, 4W, 42-SPACE PANELBOARD. RECONNECT TO EXISTING FEEDER. RECONNECT EXISTING EQUIPMENT TO NEW BREAKERS. SEE SHEET 'E-002' FOR NEW PANEL SCHEDULE.
2. REPLACE EXISTING FEDERAL PACIFIC PANEL 'PP1' WITH NEW 175 AMP MAIN BREAKER, 208Y/120V, 3Ø, 4W, 42-SPACE PANELBOARD. CONNECT TO NEW FEEDER ON THE 208V SIDE OF TRANSFORMER.
3. INSTALL NEW 45KVA, 480Y/277V TO 208Y/120V DRY-TYPE STEP-DOWN TRANSFORMER. LOCATE NEW TRANSFORMER SO THAT IT IS OUTSIDE OF NEC REQUIRED CLEARANCE FOR NEW PANELS 'LP1' AND 'PP1', BUT COORDINATE WITH OWNER FOR FINAL LOCATION OF NEW HOUSEKEEPING PAD. INSTALL NEW CONDUCTORS AND CONDUIT PER RISER DIAGRAM ON SHEET 'E-001'.
4. EXISTING 16-SPACE, SQUARE-D SUB-PANEL TO REMAIN. RECONNECT EXISTING FEEDER TO NEW 100/2 BREAKER IN NEW PANEL 'PP1'. SEE SHEET 'E-002' FOR 'PP1' PANEL SCHEDULE.



1 POWER PLAN - FIRST FLOOR
 E-102 SCALE: 1/8" = 1'-0"



4452 Clinton Street, Marianna, Florida 32446
 850.526.3447 www.watford-engineering.com
 Florida Certificate of Authorization: 27825

Anthony L Davis, PE Florida License 57419

FOR CONSTRUCTION

Florida A & M University
**WARE-RHANEY ELECTRICAL
 GEAR REPLACEMENT**
 350-498 W PALMER AVE.
 TALLAHASSEE, FL 32301

No.	Description	Date

PROJECT NUMBER: 2023-085
 DATE: 03-29-2024
 DRAWN BY: KEF
 DESIGNED BY: ALD

**POWER PLAN
 FIRST FLOOR**

PROPRIETARY RIGHT CLAUSE: INFORMATION AND DATA CONTAINED ON THIS DRAWING IS THE PROPERTY OF WATFORD ENGINEERING, INC. AND IS TO BE USED ONLY FOR THE PROJECT AND LOCATION SPECIFICALLY IDENTIFIED HEREON. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF WATFORD ENGINEERING, INC. IS STRICTLY PROHIBITED.

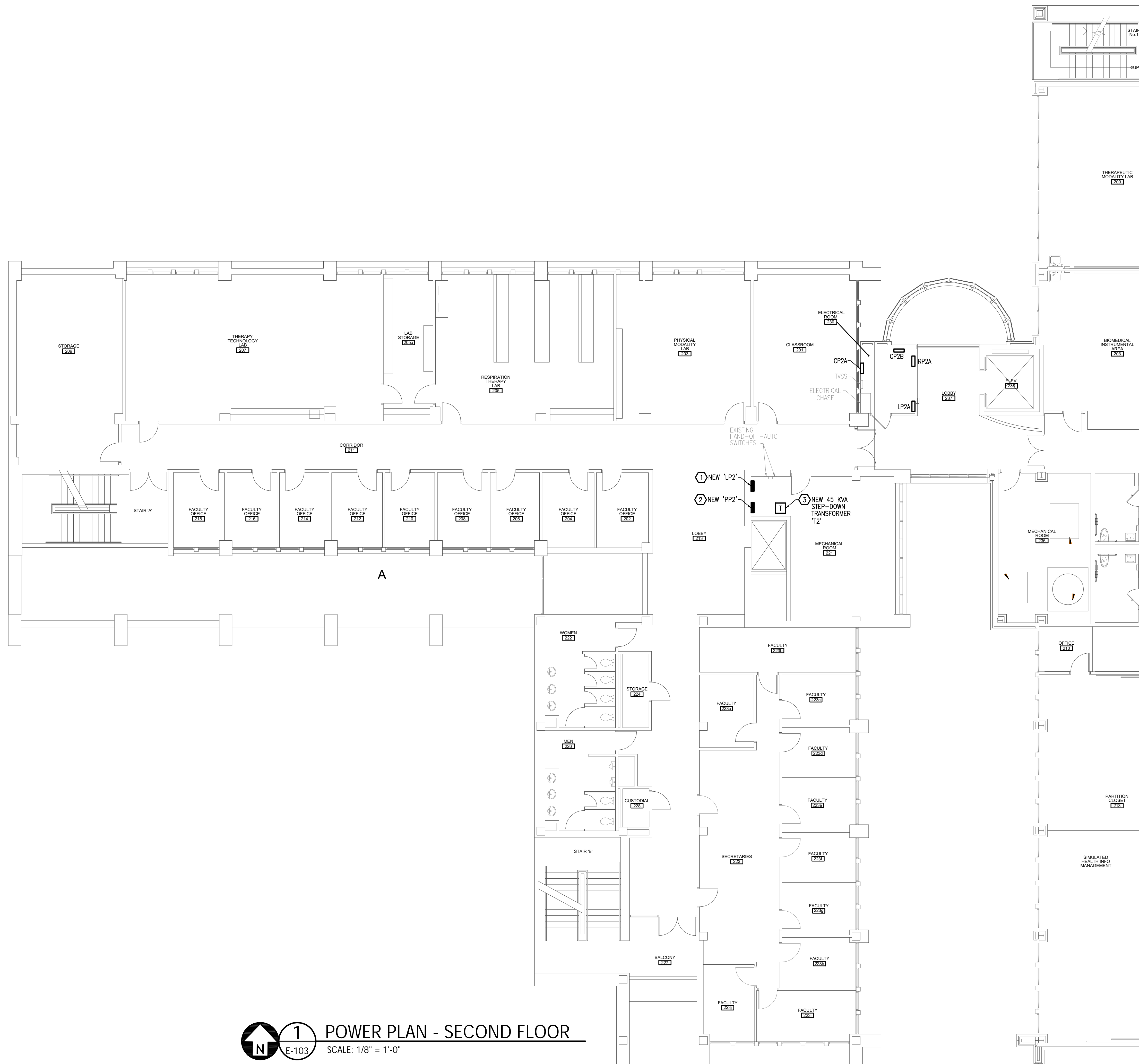
GENERAL NOTES

1. ALL FEDERAL PACIFIC EQUIPMENT BEING REMOVED IS TO BE RETURNED TO OWNER.

SHEET NOTES

1. REPLACE EXISTING FEDERAL PACIFIC PANEL 'LP2' WITH NEW 225A, MLO, 480Y/277V, 3Ø, 4W, 42-SPACE PANELBOARD. RECONNECT TO EXISTING FEEDER. RECONNECT EXISTING EQUIPMENT TO NEW BREAKERS. SEE SHEET 'E-002' FOR NEW PANEL SCHEDULE.
2. REPLACE EXISTING FEDERAL PACIFIC PANEL 'PP2' WITH NEW 175 AMP MAIN BREAKER, 208Y/120V, 3Ø, 4W, 42-SPACE PANELBOARD. CONNECT TO NEW FEEDER ON THE 208V SIDE OF TRANSFORMER.
3. INSTALL NEW 45KVA, 480Y/277V TO 208Y/120V DRY-TYPE STEP-DOWN TRANSFORMER. LOCATE NEW TRANSFORMER SO THAT IT IS OUTSIDE OF NEC REQUIRED CLEARANCE FOR NEW PANELS 'LP2' AND 'PP2', BUT COORDINATE WITH OWNER FOR FINAL LOCATION OF NEW HOUSEKEEPING PAD. INSTALL NEW CONDUCTORS AND CONDUIT PER RISER DIAGRAM ON SHEET 'E-001'.

PROPRIETARY RIGHT CLAUSE: INFORMATION AND DATA CONTAINED ON THIS DRAWING IS THE PROPERTY OF WATFORD ENGINEERING, INC. AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF WATFORD ENGINEERING, INC. IS STRICTLY PROHIBITED.



No.	Description	Date

PROJECT NUMBER: 2023-085
DATE: 03-29-2024
DRAWN BY: KEF
DESIGNED BY: ALD

**POWER PLAN
SECOND FLOOR**

1 POWER PLAN - SECOND FLOOR
E-103 SCALE: 1/8" = 1'-0"