
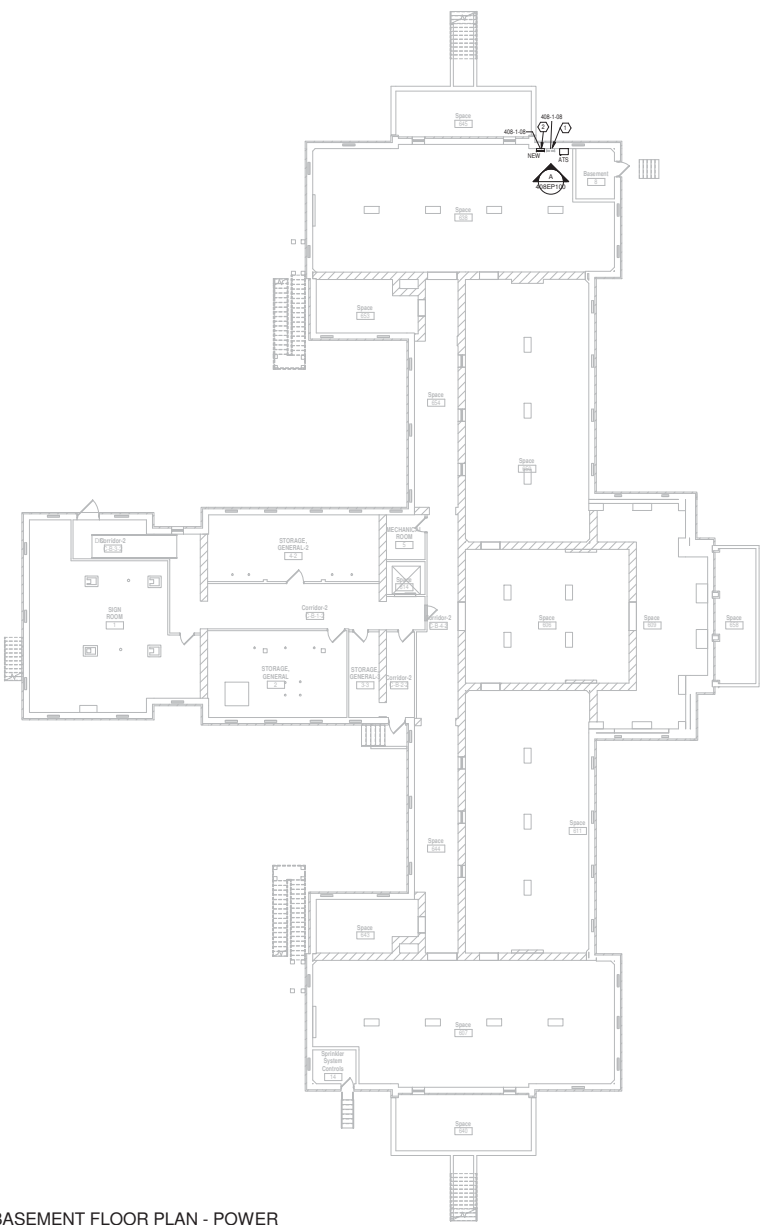


Office of
Construction
and Facilities
Management

 Department of
Veterans Affairs

one-eighth inch = one foot
one-quarter inch = one foot
three-eighths inch = one foot
one-half inch = one foot
one inch = one foot
one and one-half inches = one foot
three inches = one foot



BASEMENT FLOOR PLAN - POWER
Scale: 3/32" = 1'-0"

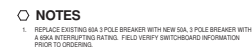


A SITE PHOTOGRAPH

- GENERAL NOTES**
- A. SCHEDULE ANY SHUT DOWN WITH THE COR 4 WEEKS PRIOR TO PERFORMING WORK.
 - B. SHUTDOWNS IN BUILDING 408 SHALL BE SCHEDULED OUTSIDE OF NORMAL WORKING HOURS AND SHALL BE COMPLETED A MINIMUM OF 4 HOURS BEFORE NORMAL WORKING HOURS.
 - C. UNDER DUCTS A.T. #4 TRACES EACH BRANCH CIRCUIT FEED BY EACH PANEL MOUNTED UNDER THIS PROJECT AND UPDATE PANEL SCHEDULE ACCORDING TO ROOMS EQUIPMENT IT SERVES.
 - D. WORK IN BUILDING 408 TO BE BID AS DEDUCT A.T. #4
- NOTES**
- 1. REMOVE EXISTING PANEL AND EXTEND CIRCUITRY USING NON REVERSIBLE COMPRESSION TYPE BRUCES AND CONDUIT TO NEW PANEL.
 - 2. RETAIL NEW PANEL IN LOCATION INDICATED.
 - 3. REROUT CONDUIT TO MAKE ROOM FOR NEW PANEL.

| | | | | | | | | | | |
|--|--|--|--|-----------------------------------|--|---------------------------------------|--|---|----------------|--|
| CONSULTANTS: | | ARCHITECT/ENGINEERS: | | Project Title | | Project No. | | Office of Construction and Facilities Management | | |
| Heapy Engineering MEP Design Technology Planning Commissioning Energy Nationally Recognized Leader in Sustainability 1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com Heapy Project No.: 2016-05088 Firm License No.: 91528 | | JOHN POE ARCHITECTS 3131 BERNARD DRIVE, SUITE 200 MARIETTA, OHIO 45750 937-481-5200 PHONE 937-481-5200 FAX jpo@johnpoe.com | | B408 BASEMENT POWER PLAN | | CORRECT ARC FLASH DEFICIENCIES | | Project No. 550-16-551 | | |
| | | | | Location Dayton, Ohio | | Building Number | | Drawing Number | | |
| | | | | Approved: Project Director | | Date 07/06/2017 | | 408EP100 | | |
| | | | | | | Checked: Approver | | Drawn: Designer | Dep. of | |

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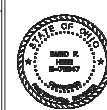
Scale: N.T.S.

Scale: N.T.S.

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| | CONSULTANTS: |
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Heapy Engineering
MEP Design Technology Planning Commissioning Energy
Nationally Recognized Leader in Sustainability
1400 W Dorothy Lane, Dayton, OH 45409-1310
Ph 937-224-0861 Fax 937-224-5777 www.heapy.com
Heapy Project No.: 2016-05088 Firm License No.: 01528



ARCHITECT/ENGINEERS:

JOHN POE ARCHITECTS



| | |
|--|---------------|
| | Drawing Title |
|--|---------------|

B409 SINGLE-LINE DIAGRAM

Approved: Project Director

| | |
|---------------|--|
| Project Title | |
|---------------|--|

DEFICIENCIES

| | |
|----------|--------------|
| Location | Dayton, Ohio |
|----------|--------------|

Date

☐ Check

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| Drawn |
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| Project No. |
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| VA Project No. | 552-18-551 |
| JPA Project No. | - |

Building Number

[illegible]Drawing Number
1005004

409E001

Office of
Construction
and Facilities
Management



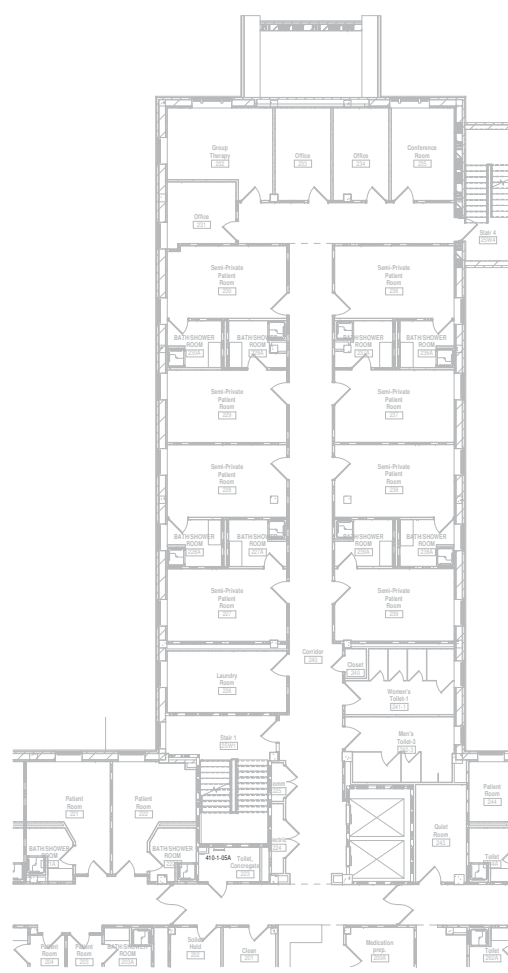
| Panel: 410-1-04-21 | | | | | | | | | |
|------------------------------|---------------------|-------|---------|-------------------|---------|--------------------|-------|---------------------|-----|
| Location: Patient Storage 9 | | | | Mounting: Surface | | A/C Rating: 22,000 | | | |
| Supply From: 40-10 A | | | | Enduse: Type 1 | | Main Type: HCU | | Main Rating: 100 A | |
| Voltage: 120/208 Vrms 3Ph-4W | | | | | | | | | |
| CKT | Circuit Description | Trips | 1/A | B | C | 2/A | Trips | Circuit Description | CKT |
| 1 | EXISTING 15A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 2 | EXISTING 20 A | 2 |
| 5 | EXISTING 20A 2 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 2 | Space 8 | 8 |
| 5 | EXISTING 20A 2 | 2 | 0 VA | 0 VA | 0 VA | 0 VA | 2 | Space 8 | 8 |
| 3 | EXISTING 40A 2 | 2 | 0 VA | 0 VA | 0 VA | 0 VA | 2 | EXISTING 15 A | 15 |
| 11 | EXISTING 15A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | EXISTING 15 A | 15 |
| 13 | EXISTING 15A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | EXISTING 15 A | 15 |
| 13 | EXISTING 15A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | EXISTING 15 A | 15 |
| 19 | Space 20A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | Space 20 A | 20 |
| 21 | Space 20A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | Space 20 A | 20 |
| 23 | Space 20A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | Space 20 A | 20 |
| 25 | Space 20A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | Space 20 A | 20 |
| 25 | Space 20A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | Space 20 A | 20 |
| 27 | Space 20A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | Space 20 A | 20 |
| 29 | Space 20A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | Space 20 A | 20 |
| 30 | Space 20A 1 | 1 | 0 VA | 0 VA | 0 VA | 0 VA | 1 | Space 20 A | 20 |
| Total Load | | | 0.00 kW | 0.00 kW | 0.00 kW | 0.00 kW | | | |

Notes: NEW PANELBOARD INTERIOR AND TOB.

| TOTAL CONNECTED | 0 VA | ESTIMATED DEMAND |
|-----------------|------|------------------|
| | 0 VA | 0 VA |

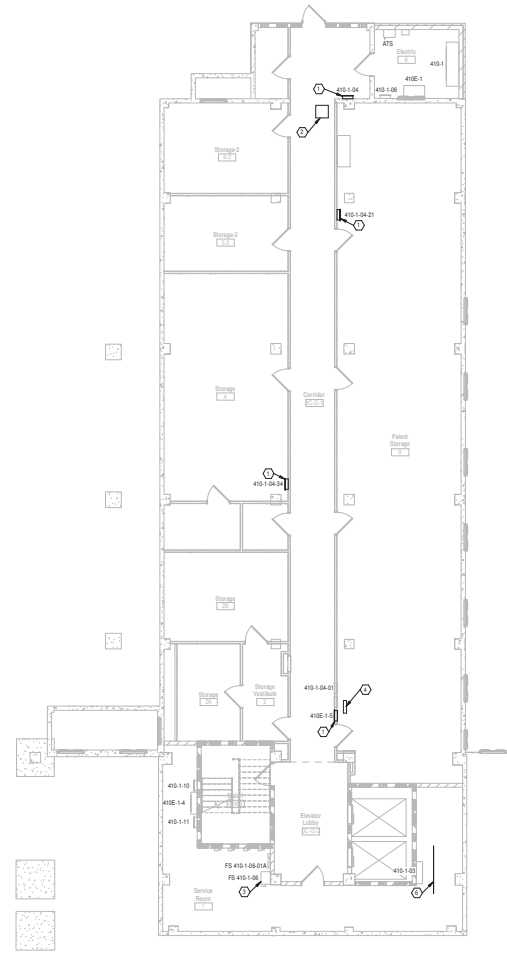
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one-eighth inch = one foot
one-quarter inch = one foot
three-eighths inch = one foot
one-half inch = one foot
three-quarters inch = one foot
one inch = one foot
one and one-half inches = one foot
two inches = one foot
three inches = one foot



PROJECT
Scale: 1/8" = 1'-0"


SECOND FLOOR PLAN - POWER



PROJECT
Scale: 1/8" = 1'-0"

BASEMENT FLOOR PLAN - POWER

- GENERAL NOTES**
1. PROVIDE SEPARATE METING FOR ALL CIRCUITS UNLESS OTHERWISE INDICATED.
 2. EMT CONDUIT SHALL BE 1/2" MINIMUM.
 3. CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FREEDS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.
 4. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND A SHARED GREEN INSULATED EQUIPMENT IDENTIFYING CONDUCTOR WITHIN THE RACEWAY.
 5. UNDER SECT. 41.46 TRACE EACH BRANCH CIRCUIT FROM EACH PANEL WIRING UNDER THIS PROJECT AND UPDATE PANEL SCHEDULE ACCORDING TO ROOM/EQUIPMENT IT SERVES.
- NOTES**
1. REMOVE EXISTING PANEL AND REPLACE WITH NEW. REFER TO SINGLE LINE DIAGRAM AND PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
 2. PROVIDE COVER FOR 24" FIELD VERIFY DIMENSIONS PRIOR TO ORDERING COVER.
 3. REMOVE DISCONNECT.
 4. PROVIDE COVER FOR ALL BOX. FIELD VERIFY DIMENSIONS PRIOR TO ORDERING.
 5. PROVIDE SIGNAGE INDICATING THE TYPE AND LOCATION OF THE ON-SITE OPTIONAL STANDBY POWER SOURCE PER NEC SECTION 700.7(A).
 6. REMOVE IF COMMUNICATIONS CONDUIT TO PROVIDE NEC REQUIRED WORKING CLEARANCES IN FRONT OF PANEL 410-1-03.

| | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--------------|--|--|--|---|--|----------------------|--|--|--|--|--|--|--|--|--|--|--|
| 7/12/2017 9:40:43 AM | | CONSULTANTS: | | Heapy Engineering MEP Design Technology Planning Commissioning Energy Nationally Recognized Leader in Sustainability 1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com Heapy Project No.: 2016-05088 Firm License No.: 91528 | |  | | ARCHITECT/ENGINEERS: | | JOHN POE ARCHITECTS 3131 NEWMARK DRIVE, SUITE 200, MARIETTA, OHIO 45752 937-481-5200 PHONE 937-481-5200 FAX jpo@johnpoe.com | | Drawing Title B410 BASEMENT FLOOR PLAN | | Project Title CORRECT ARC FLASH DEFICIENCIES | | Project No. JPA Project No. 520-16-551 Building Number | | Office of Construction and Facilities Management Department of Veterans Affairs | |
| Revision | | Date | | | | | | | | Approved: Project Director | | Date 07/06/2017 | | Checked MSG | | Drawn JRS | | Drawing Number 410EP101 Dep. of | |

[illegible]

Panel: 412-1-04B

Location: Laundry Room 011

Mounting: Surface

A.I.C. Rating: 100KJou

Supply From: 412-1-04A

Enclosure: Type 1

Maina Type: MCO

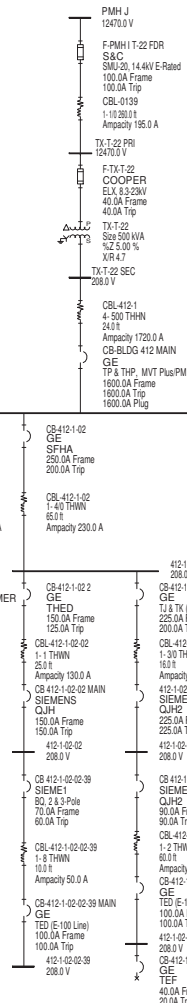
Voltage: 120/208 Vys 3PH-4W

Maina Rating: 100 A

| CRKT | Circuit Description | Trips | Phases | A | B | C | Phases | Trips | Circuit Description | CR |
|------------|---------------------|-------|--------|----------|----------|----------|--------|-------|---------------------|-------|
| 1 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 1 |
| 2 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 2 |
| 3 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 3 |
| 4 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 4 |
| 5 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 5 |
| 6 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 6 |
| 7 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 7 |
| 8 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 8 |
| 9 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 9 |
| 10 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 10 |
| 11 | EXISTING | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | EXISTING | 11 |
| 12 | Space | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | Space | 12 |
| 13 | Space | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | Space | 13 |
| 14 | Space | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | Space | 14 |
| 15 | Space | 20 A | 1 | 0 V A | 0 V A | 0 V A | 1 | 20 A | Space | 15 |
| Total Load | | | | 0.00 KVA | 0.00 KVA | 0.00 KVA | 0 V A | 1 | 20 A | Space |

Notes: NEW PANELBOARD.

| | | | | | | | | | | |
|-----------------|--|--|--|----------|--|--|-------|--|--|------------------|
| TOTAL CONNECTED | | | | 0.00 KVA | | | 0 V A | | | ESTIMATED DEMAND |
|-----------------|--|--|--|----------|--|--|-------|--|--|------------------|



GENERAL NOTES




- A. SCHEDULE ANY SHUTDOWNS WITH THE COR 4 WEEKS PRIOR TO PERFORMING WORK. CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION NARRATIVE TO THE COR AND ENGINEER FOR APPROVAL PRIOR TO SCHEDULING SHUTDOWN. NARRATIVE SHALL INCLUDE DATE AND TIME OF SHUTDOWN, ANTICIPATED DURATION, AND SEQUENCE OF REMOVAL AND INSTALLATION. CONTRACTOR SHALL SCHEDULE A WALK THRU WITH THE COR AND ENGINEER PRIOR TO PERFORMING WORK.

NOTES

1. REPLACE PANEL WITH NEW 100A, 250Y/120V-3P-4W, 42 CIRCUIT PANEL. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITRY TO NEW PANELBOARD. NEW CIRCUIT NUMBERS SHALL MATCH EXISTING. REITERATE ALL EXISTING CONDUITS TO NEW TRUNK AND EXTEND FEEDERS AND BRANCH CIRCUITRY AS REQUIRED TO ACCOMMODATE NEW PANELBOARD.
2. REPLACE PANEL WITH NEW 100A, 250Y/120V-3P-4W, 30 CIRCUIT PANEL. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITRY TO NEW PANELBOARD. NEW CIRCUIT NUMBERS SHALL MATCH EXISTING.
3. UTILIZE EXISTING CONDUIT AND FEEDER.
4. RUN 4-#4, #8 GND. IN 1/2".
5. RE USE EXISTING FEEDER.

1 B412 SINGLE-LINE DIAGRAM

Scale: N.T.S.

| | | | | | | | | | | | | | | | |
|----------------|--|---|--|--|--|--|--|---|--|---|--|---|--|---|--|
| CONSULTANTS: | | <div><p>Heapy Engineering MEP Design Technology Planning Commissioning Energy <i>Nationally Recognized Leader in Sustainability</i></p><p>1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com Heapy Project No. 2015-05038 Firm License No. 01028 jgall@heapy.com</p></div> | | <div></div> | | ARCHITECT/ENGINEERS: <div><p>JOHN POE ARCHITECTS</p><p>2131 NEWMARK DRIVE, SUITE 200 MANSFIELD, OHIO 44902 937-481-5200 PHONE 937-481-5208 FAX jpoa@johnpoe.com</p></div> | | Drawing Title B412 SINGLE-LINE DIAGRAM | | Project Title CORRECT ARC FLASH DEFICIENCIES | | Project No. 552-18-551 VA Project No. - JPSA Project No. - Building Number | | Office of Construction and Facilities Management | |
| Drawing Number | | Drawing Number 412E001 | | Date 07/06/2017 | | Checked MSG Drawn JRS | | Date 07/06/2017 | | Dept. of Veterans Affairs | | | | | |

