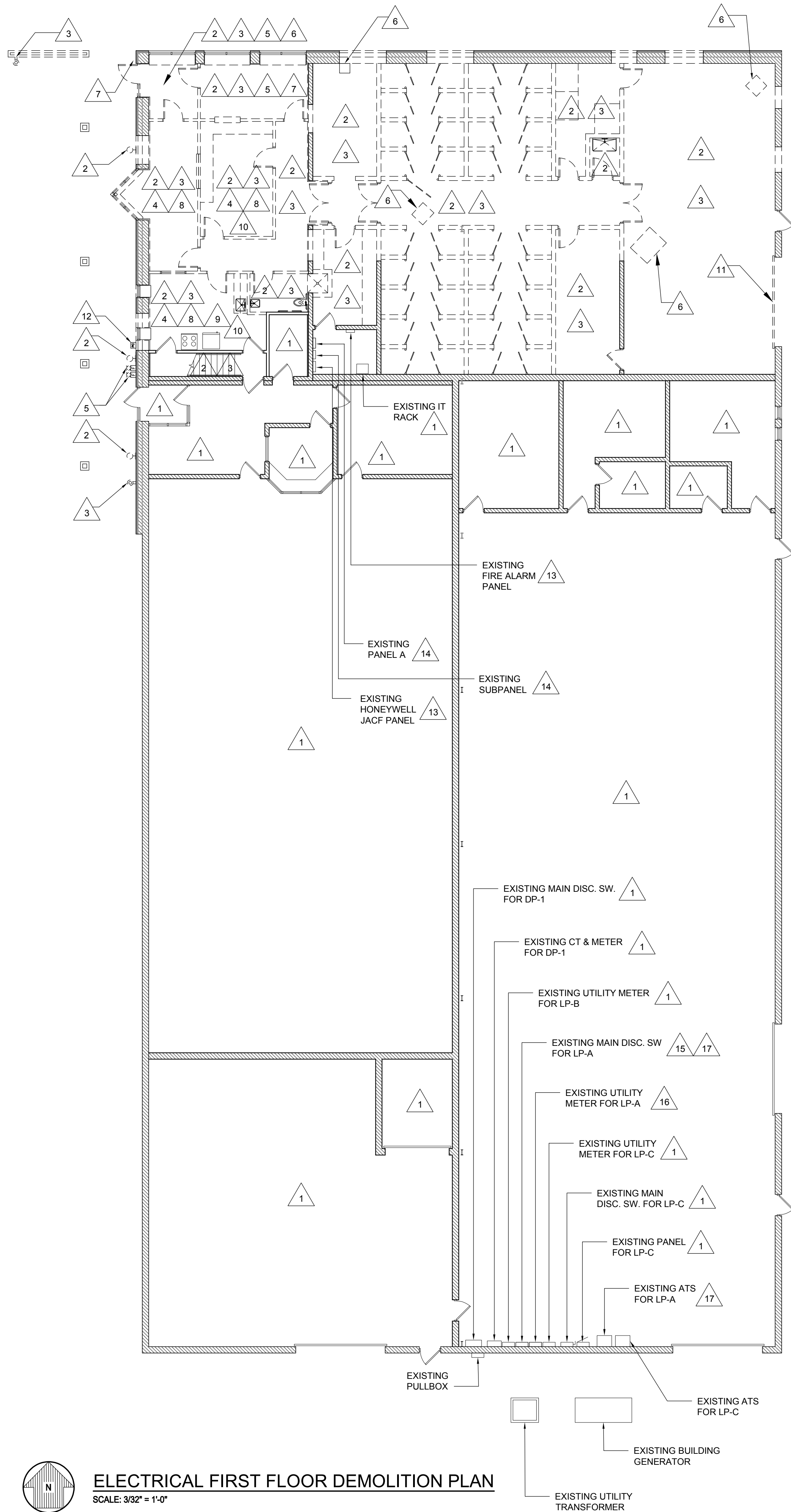


SCALE: 1" = 20'-0"

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GENERAL NOTES:

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR GENERAL SCOPE OF DEMOLITION WORK REQUIRED UNDER THIS CONTRACT. CONTRACT AND COORDINATE WITH ELECTRICAL DEMOLITION WORK.
- C. EXTREME CARE SHALL BE TAKEN NOT TO DISRUPT ANY ELECTRICAL SERVICES THAT EXTEND BEYOND THE BOUNDARIES OF THE RENOVATION AREA AND ARE TO REMAIN DURING DEMOLITION. POWER TO EQUIPMENT OUTSIDE OF AREA OF RENOVATION SHALL NOT BE TURNED OFF WITHOUT PROPER PERMISSION FROM OWNER'S REPRESENTATIVE. ANY CIRCUITS AFFECTED BY THE RENOVATION WHICH ARE SCHEDULED TO REMAIN SHALL BE PROPERLY REWIRED TO MAINTAIN SERVICE AND COMPLIANCE WITH NATIONAL, STATE, AND LOCAL CODES.
- D. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL DEMOLITION WORK TO BE PERFORMED. LOCATIONS ARE APPROXIMATE. EXACT EXTENT OF DEMOLITION WORK SHALL BE AS REQUIRED BY NEW WORK TO BE PERFORMED.
- E. TEST AND VERIFY INTEGRITY OF ALL CIRCUITS REQUIRING DISCONNECTION OR MODIFICATION. UN-TERMINATE CONDUCTORS AT EACH END AND PERFORM MEGGER TEST. RE-TERMINATE AND VERIFY PROPER PHASE SEQUENCE/ROTATION. VERIFY GROUND CONNECTIONS.
- F. REFER TO EXISTING RISER DIAGRAM ON ED-600 FOR ADDITIONAL INFORMATION.

DEMOLITION KEYED NOTES:

- 1 EXISTING ELECTRICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
- 2 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE.
- 3 DISCONNECT AND REMOVE EXISTING RECEPTACLE OUTLETS, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER POSITION AS SPARE.
- 4 DISCONNECT AND REMOVE EXISTING DATA OUTLETS, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 5 DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICES, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 6 DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT TO MECHANICAL UNIT, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER POSITION AS SPARE.
- 7 DISCONNECT AND REMOVE EXISTING SECURITY EQUIPMENT, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 8 DISCONNECT AND REMOVE EXISTING SPEAKER EQUIPMENT, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 9 DISCONNECT AND REMOVE EXISTING TIME CARD SYSTEM INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE.
- 10 DISCONNECT AND REMOVE EXISTING WIFI EQUIPMENT INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. EQUIPMENT SHALL BE TURNED OVER TO OWNER.
- 11 DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT TO EXISTING OVERHEAD DOOR, INCLUDING, ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE.
- 12 DISCONNECT AND REMOVE EXISTING PHOTOCELL, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 13 DISCONNECT AND REMOVE EXISTING SERVICE FEED TO PANEL, INCLUDING ALL ASSOCIATED CONDUIT BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE. EXISTING PANEL TO BE RE-FED UNDER THE CONTRACT.
- 14 DISCONNECT AND REMOVE EXISTING PANEL, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 15 DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 16 DISCONNECT AND REMOVE EXISTING UTILITY METER.
- 17 DISCONNECT AND REMOVE EXISTING BRANCH FEEDER WIRING AND CONDUIT BETWEEN EXISTING ATS AND MAIN DISCONNECT SWITCH FOR PANEL LP-A. BRANCH FEED TO BE REPLACED UNDER THIS CONTRACT.

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Client:
City of Taylor
23555 Goddard Rd.
Taylor, MI 48180

Project:
City of Taylor
Animal Shelter
Remodel & Expansion

25555 Northline Rd.
Taylor, MI 48180



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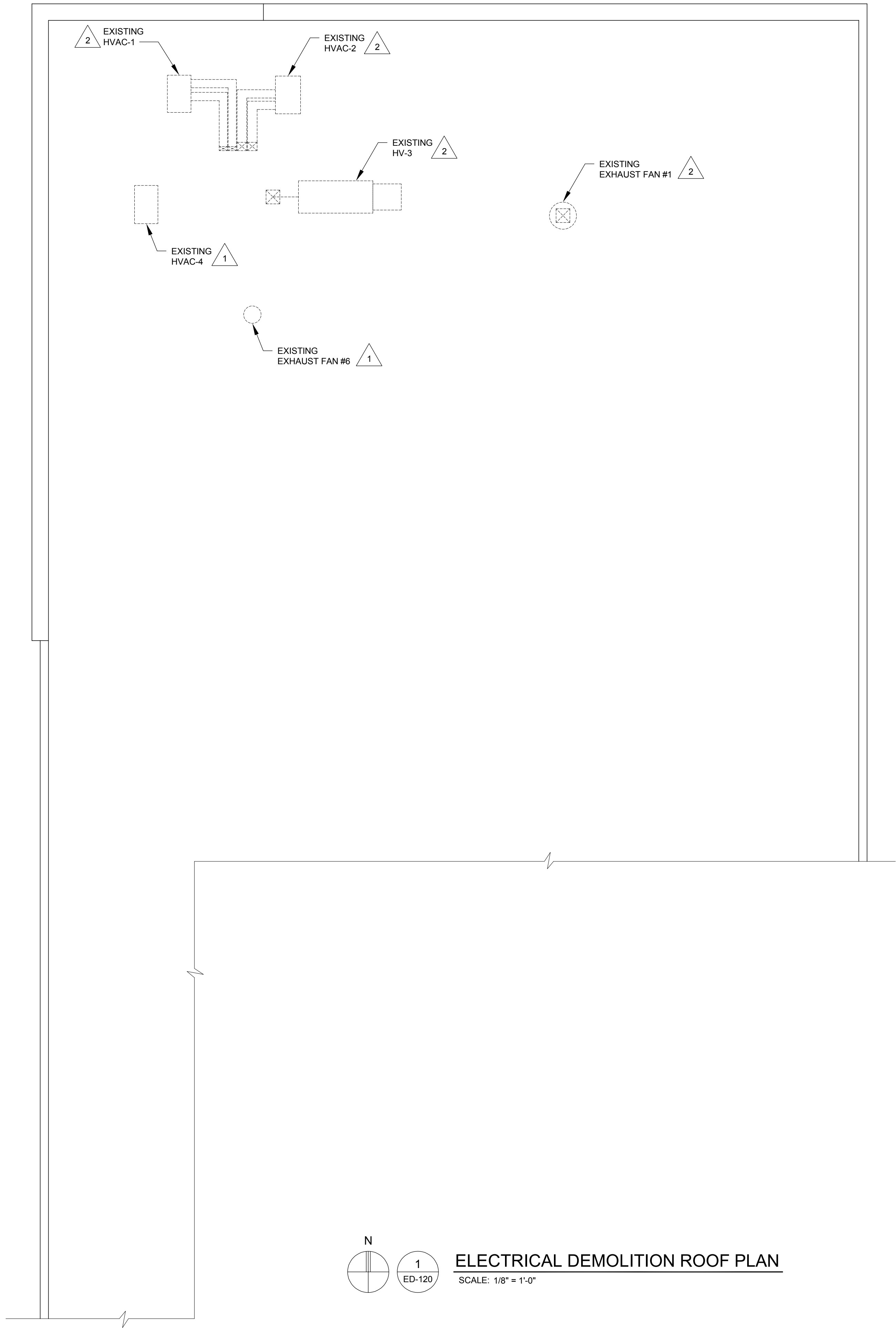
Drawn: JDM
Checked: LMR
Approved: SRK

Sheet Title:
ELECTRICAL
FIRST FLOOR
DEMOLITION PLAN

Project Number: **22712.A**

Sheet Number: **ED-110**

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- E. TEST AND VERIFY INTEGRITY OF ALL CIRCUITS REQUIRING DISCONNECTION OR MODIFICATION. UN-TERMINATE CONDUCTORS AT EACH END AND PERFORM MEGGER TEST. RE-TERMINATE AND VERIFY PROPER PHASE SEQUENCE/ROTATION. VERIFY GROUND CONNECTIONS.
- F. REFER TO EXISTING RISER DIAGRAM ON ED-600 FOR ADDITIONAL INFORMATION.

DEMOLITION KEYED NOTES:

- 1 EXISTING ELECTRICAL EQUIPMENT ASSOCIATED WITH UNIT TO REMAIN.
- 2 DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT ASSOCIATED WITH UNIT, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.


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23555 Goddard Rd.
Taylor, MI 48180

Project:
City of Taylor
Animal Shelter
Remodel & Expansion

25555 Northline Rd.
Taylor, MI 48180



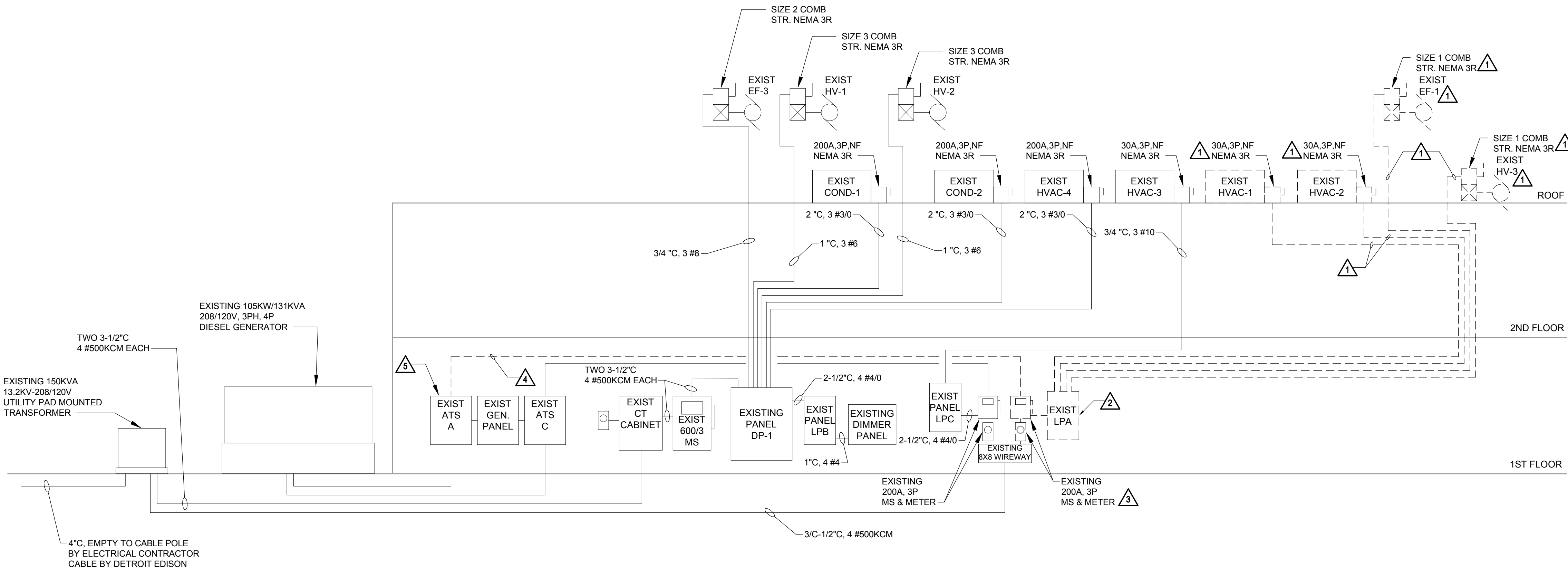
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Drawn: JDM
Checked: LMR
Approved: SRK

Sheet Title:
**ELECTRICAL
DEMOLITION
ROOF PLAN**

Project Number: 22712.A

Sheet Number: **ED-120**



ELECTRICAL DEMOLITION RISER DIAGRAM

SCALE: NTS
NOTE 1

GENERAL NOTES

- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL SCOPE OF DEMOLITION WORK REQUIRED UNDER THIS CONTRACT AND COORDINATE WITH ELECTRICAL DEMOLITION WORK.
- EXTREME CARE SHALL BE TAKEN NOT TO DISRUPT ANY ELECTRICAL SERVICES WHICH EXTEND BEYOND THE BOUNDARIES OF WORK AREA AND ARE TO REMAIN DURING DEMOLITION. POWER TO EQUIPMENT OUTSIDE OF AREA OF DEMOLITION SHALL NOT BE TURNED OFF WITHOUT PROPER PERMISSION FROM OWNER'S REPRESENTATIVE. ANY CIRCUITS AFFECTED BY THIS DEMOLITION, WHICH ARE SCHEDULED TO REMAIN SHALL BE PROPERLY REWIRED TO MAINTAIN SERVICE AND COMPLIANCE WITH ALL NATIONAL, STATE AND LOCAL CODES.

DEMOLITION NOTES

- DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT ASSOCIATED WITH UNIT, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- DISCONNECT AND REMOVE EXISTING SERVICE AND BRANCH FEEDERS FROM EXISTING PANEL. EXISTING SERVICE FEEDER AND PANEL TO BE REPLACED UNDER THIS CONTRACT. BRANCH FEEDERS THAT ARE TO REMAIN SHALL BE RE-FED FROM NEW PANEL. REFER TO DRAWINGS EP-600 AND EP-601 FOR ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING UTILITY METER AND SERVICE DISCONNECT SWITCH, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRING BETWEEN SERVICE DISCONNECT SWITCH AND AUTOMATIC TRANSFER SWITCH.
- ABANDON IN PLACE.

NOTES

- THE BUILDING RENOVATIONS AND ADDITION TO THE CITY OF TAYLOR ANIMAL SHELTER SHALL BE FED FROM A NEW UTILITY SERVICE TRANSFORMER. REFER TO DRAWING EP-600 FOR ADDITIONAL INFORMATION.


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Project:
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Animal Shelter
Remodel & Expansion

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Taylor, MI 48180



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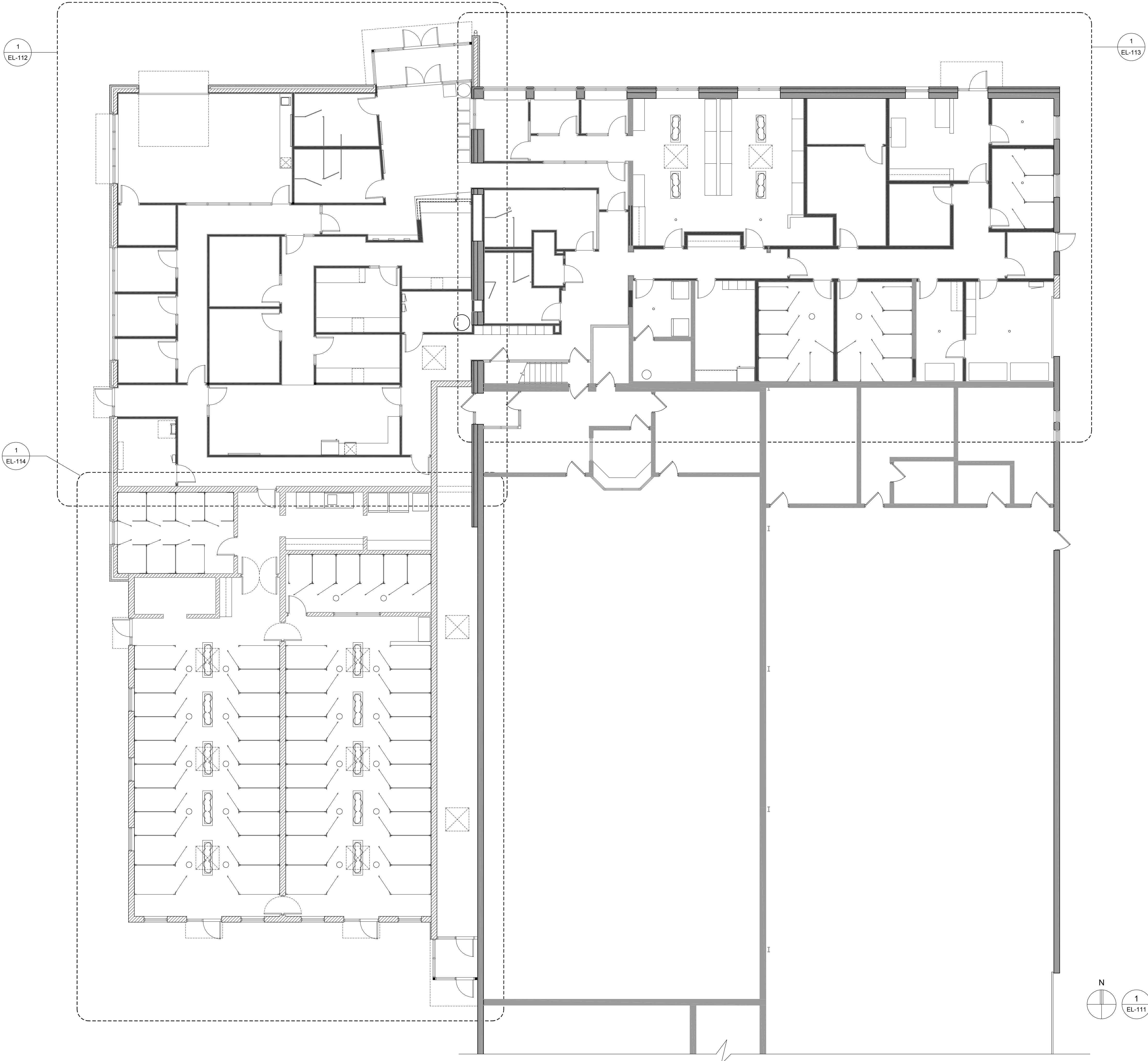
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**ELECTRICAL
DEMOLITION
RISER
DIAGRAM**

Project Number: **22712.A**

Sheet Number: **ED-600**

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Taylor, MI 48180

Project:
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Animal Shelter
Remodel & Expansion

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Seal:



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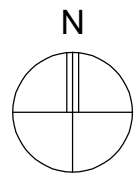
Sheet Title:

**OVERALL
ELECTRICAL
LIGHTING
FLOOR PLAN**

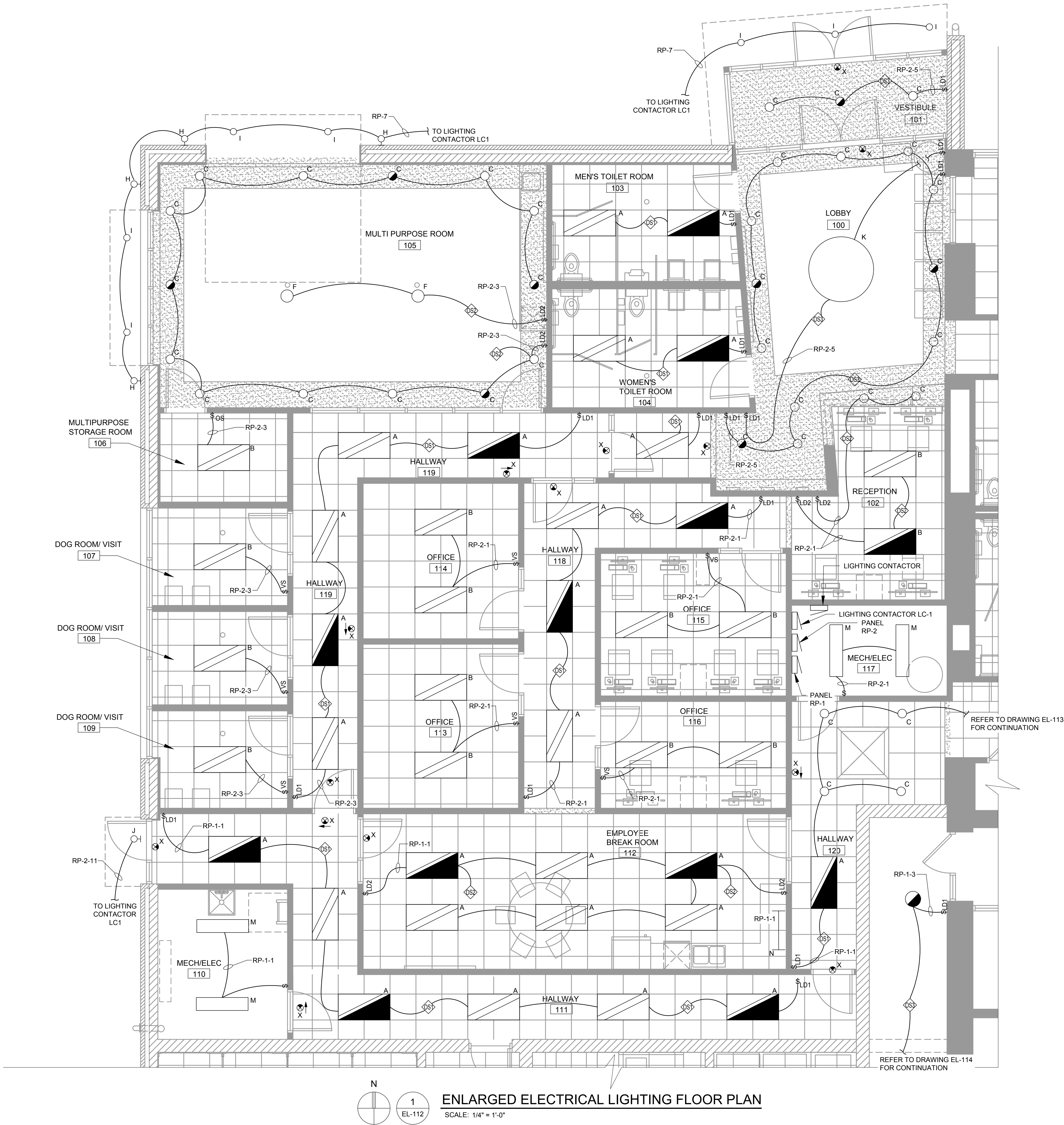
Project Number: **22712.A**

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OVERALL ELECTRICAL LIGHTING FLOOR PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES

- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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- COORDINATE EXACT LOCATION OF DEVICES WITH OTHER TRADES FOR AVOIDANCE OF ANY OBSTRUCTIONS. VERIFY WALL SWITCHING OF ELECTRICAL LIGHTING PLANS FOR PROPER TYPES OF OPTIONS REQUIRED ON ALL FIXTURES. VERIFY CEILING TYPES ON ARCHITECTURAL REFLECTED CEILING PLANS FOR PROPER INSTALLATIONS OF TRIMS AND FOR EXACT MOUNTING LOCATIONS ON ALL FIXTURES.
- USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- LIGHTING FIXTURE MANUFACTURER AND MODEL SERIES SHOWN IN LIGHTING FIXTURE SCHEDULE AND ON PLAN ARE BASIS OF DESIGN. ALTERNATE MANUFACTURER AND EQUIPMENT LISTED THAT MEETS THE SALIENT CHARACTERISTICS OF THE LIGHTING FIXTURES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURER OR MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
- LIGHTING CONTROL SYSTEM MANUFACTURER IS BASIS OF DESIGN. ALTERNATE MANUFACTURERS OF THE LIGHTING CONTROL DEVICES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURER OR MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
- LIGHTING CONTROL AND SENSORS SHOWN ON DRAWINGS ARE INDICATED TO DEMONSTRATE DESIGN INTENT. ACTUAL NUMBERS AND LOCATIONS OF DEVICES SHALL BE AS RECOMMENDED BY THE LIGHTING CONTROL MANUFACTURER/SUPPLIER. CONTRACTOR SHALL FURNISH AND INSTALL POWER PACKS, AUXILIARY RELAYS, LOW VOLTAGE TRANSFORMERS, TRANSFORMER DEVICES, ETC. AS REQUIRED AND RECOMMENDED BY THE LIGHTING CONTROL SYSTEM MANUFACTURER/SUPPLIER.
- LETTER NEXT TO LIGHTING FIXTURE INDICATE FIXTURE TYPE. REFER TO FIXTURE SCHEDULE ON DRAWING EL-600 FOR ADDITIONAL INFORMATION.
- REFER TO PANEL SCHEDULE ON DRAWING EP-801 FOR ADDITIONAL INFORMATION.
- EMERGENCY AND EXIT LIGHTING FIXTURES TO BE INSTALLED UNDER THIS CONTRACT SHALL BE FED FROM THE SAME CIRCUIT AS NORMAL LIGHTING IN SPACE AND SHALL BE CONNECTED AHEAD OF THE SWITCH.

NOTES

- FURNISH AND INSTALL WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL WSX PDT WH OR EQUIVALENT.
- FURNISH AND INSTALL WALL MOUNTED DIMMING VACANCY SENSOR, ACUITY "SENSOR SWITCH" MODEL WSX PDT D VA WH OR EQUIVALENT.
- FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH, NPDM WH OR EQUIVALENT.
- FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL CM PDT 10 OR EQUIVALENT.
- FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH WITH DIMMING, NLIGHT MODEL NPDM DX WH OR EQUIVALENT.
- FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR CONTROL, NLIGHT MODEL NCM PDT 10 AR RJB OR EQUIVALENT.
- FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR WITH DAYLIGHTING CONTROL, NLIGHT MODEL NCM PDT 10 ADCX AR RJB OR EQUIVALENT.

SYMBOLS

- \$OS WALL MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 1
- \$VS WALL MOUNTED VACANCY SENSOR - REFER TO NOTE 2
- \$ SINGLE POLE SWITCH
- \$LD1 WALL MOUNTED ON/OFF SWITCH - REFER TO NOTE 3
- \$OS1 CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 4
- \$LD2 WALL MOUNTED ON/OFF SWITCH WITH DIMMING - REFER TO NOTE 5
- \$OS2 CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 6
- \$OS3 CEILING MOUNTED OCCUPANCY SENSOR WITH PHOTOCELL - REFER TO NOTE 7


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Client:
City of Taylor
23555 Goddard Rd.
Taylor, MI 48180

Project:
City of Taylor
Animal Shelter
Remodel & Expansion

25555 Northline Rd.
Taylor, MI 48180



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| Drawn: | JDM |
| Checked: | LMR |
| Approved: | SRK |

Sheet Title:
**ENLARGED
ELECTRICAL
LIGHTING
FLOOR PLAN**


Project Number: **22712.A**

Sheet Number: **EL-112**

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- D. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- E. LIGHTING FIXTURE MANUFACTURER AND MODEL SERIES SHOWN IN LIGHTING FIXTURE SCHEDULE AND ON PLAN ARE BASIS OF DESIGN. ALTERNATE MANUFACTURER AND EQUIPMENT LISTED THAT MEETS THE SALIENT CHARACTERISTICS OF THE LIGHTING FIXTURES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURER OR MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
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- G. LIGHTING CONTROL AND SENSORS SHOWN ON DRAWINGS ARE INDICATED TO DEMONSTRATE DESIGN INTENT. ACTUAL NUMBERS AND LOCATIONS OF DEVICES SHALL BE AS RECOMMENDED BY THE LIGHTING CONTROL MANUFACTURER/SUPPLIER. CONTRACTOR SHALL FURNISH AND INSTALL POWER PACKS, AUXILIARY RELAYS, LOW VOLTAGE TRANSFORMERS, TRANSFORMER DEVICES, ETC. AS REQUIRED AND RECOMMENDED BY THE LIGHTING CONTROL SYSTEM MANUFACTURER/SUPPLIER.
- H. LETTER NEXT TO LIGHTING FIXTURE INDICATE FIXTURE TYPE. REFER TO FIXTURE SCHEDULE ON DRAWING EL-600 FOR ADDITIONAL INFORMATION.
- I. REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.
- J. EMERGENCY AND EXIT LIGHTING FIXTURES TO BE INSTALLED UNDER THIS CONTRACT SHALL BE FED FROM THE SAME CIRCUIT AS NORMAL LIGHTING IN SPACE AND SHALL BE CONNECTED AHEAD OF THE SWITCH.
- K.  SHADING INDICATES AREAS OF EXISTING DEVICES, EQUIPMENT, AND FEEDERS THAT ARE TO REMAIN UNLESS OTHERWISE NOTED. AREAS FEATURING NO SHADING INDICATE WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT.

NOTES

1. FURNISH AND INSTALL WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL WSX PDT WH OR EQUIVALENT.
2. FURNISH AND INSTALL WALL MOUNTED DIMMING VACANCY SENSOR, ACUTY "SENSOR SWITCH" MODEL WSX PDT D VA WH OR EQUIVALENT.
3. FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH, NP00M WH OR EQUIVALENT.
4. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL CM PDT 10 OR EQUIVALENT.
5. FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH WITH DIMMING, NLIGHT MODEL NP00M DX WH OR EQUIVALENT.
6. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR CONTROL, NLIGHT MODEL NCM PDT 10 AR RJB OR EQUIVALENT.
7. FURNISH AND INSTALL WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL WSX PDT WH LT OR EQUIVALENT.
8. LIGHT FIXTURE LOCATED IN SPACE THAT IS WET LOCATION LISTED. FURNISH AND INSTALL LIGHT SWITCH WITH WEATHERPROOF COVER OR ENCLOSURE.
9. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR WITH DAYLIGHTING CONTROL, NLIGHT MODEL NCM PDT 10 ADCX AR RJB OR EQUIVALENT.

SYMBOLS


- \$OS WALL MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 1
- \$VS WALL MOUNTED VACANCY SENSOR - REFER TO NOTE 2
- \$ SINGLE POLE SWITCH
- \$LD1 WALL MOUNTED ON/OFF SWITCH - REFER TO NOTE 3
- \$OS CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 4
- \$LD2 WALL MOUNTED ON/OFF SWITCH WITH DIMMING - REFER TO NOTE 5
- \$OS CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 6
- \$OSH WALL MOUNTED OCCUPANCY SENSOR HIGH HUMIDITY - REFER TO NOTE 7
- \$OS CEILING MOUNTED OCCUPANCY SENSOR WITH PHOTOCELL - REFER TO NOTE 9



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Taylor
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Taylor, MI 48180

Project:

City of Taylor
Animal Shelter
Remodel & Expansion

25555 Northline Rd.
Taylor, MI 48180

Seal:



Date: 10-18-2023 Issued For: 50% COMPLETE REVIEW

12-21-2023 OWNER REVIEW

01-17-2024 PERMIT REVIEW

Drawn: JDM

Checked: LKR

Approved: SRK

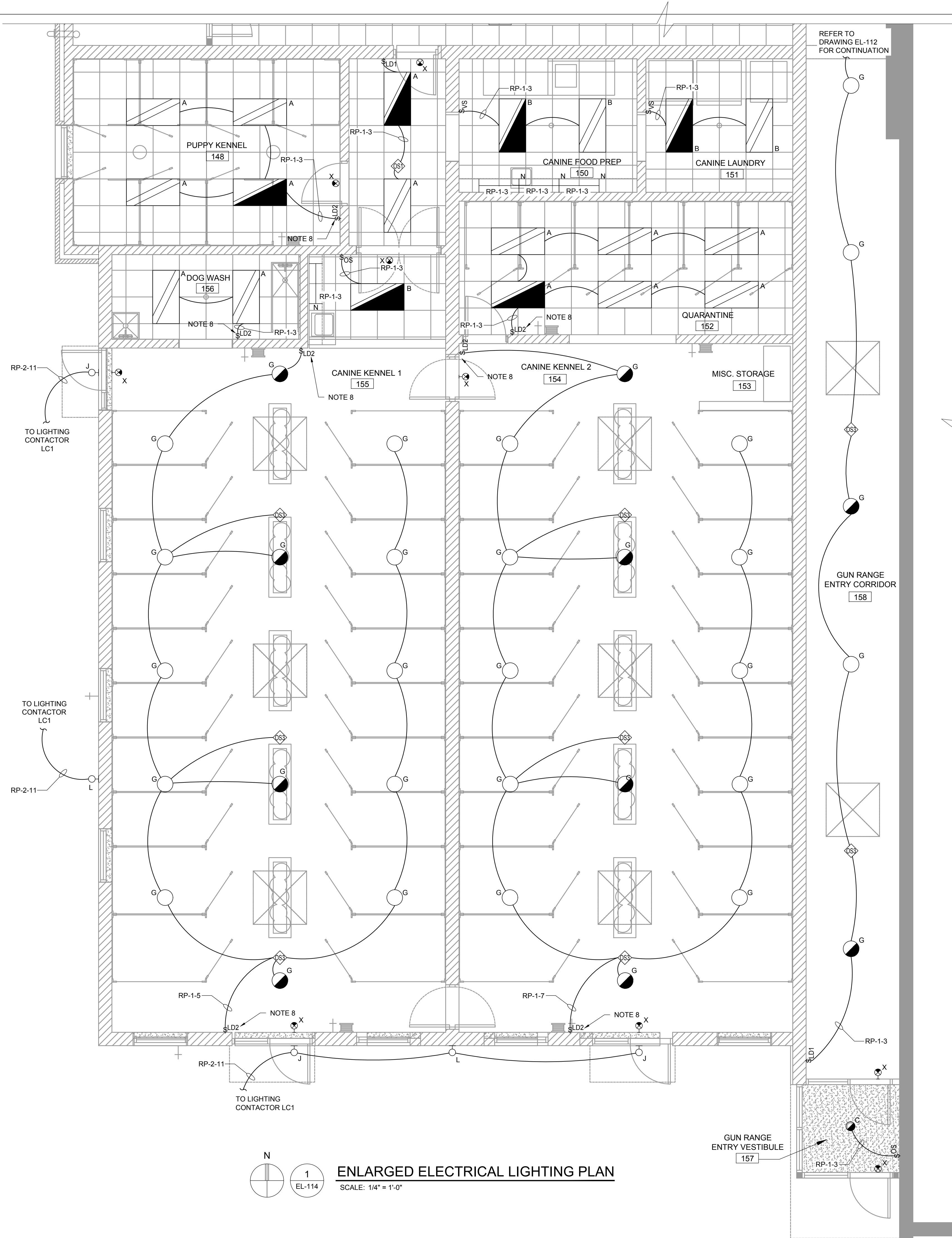
Sheet Title:

ENLARGED ELECTRICAL LIGHTING PLAN

Project Number: 22712.A

Sheet Number: **EL-113**

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- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SUBJECT TO MINOR MODIFICATIONS BY THE OWNER/ENGINEER.
- C. COORDINATE EXACT LOCATION OF DEVICES WITH OTHER TRADES FOR AVOIDANCE OF ANY OBSTRUCTIONS. VERIFY WALL SWITCHING OF ELECTRICAL LIGHTING PLANS FOR PROPER TYPES OF OPTIONS REQUIRED ON ALL FIXTURES. VERIFY CEILING TYPES ON ARCHITECTURAL REFLECTED CEILING PLANS FOR PROPER INSTALLATIONS OF TRIMS AND FOR EXACT MOUNTING LOCATIONS ON ALL FIXTURES.
- D. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- E. LIGHTING FIXTURE MANUFACTURER AND MODEL SERIES SHOWN IN LIGHTING FIXTURE SCHEDULE AND ON PLAN ARE BASIS OF DESIGN. ALTERNATE MANUFACTURER AND EQUIPMENT LISTED THAT MEETS THE SALIENT CHARACTERISTICS OF THE LIGHTING FIXTURES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURER OR MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
- F. LIGHTING CONTROL SYSTEM MANUFACTURER IS BASIS OF DESIGN. ALTERNATE MANUFACTURER AND EQUIPMENT LISTED THAT MEETS THE SALIENT CHARACTERISTICS OF THE LIGHTING CONTROL DEVICES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURER OR MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
- G. LIGHTING CONTROL AND SENSORS SHOWN ON DRAWINGS ARE INDICATED TO DEMONSTRATE DESIGN INTENT. ACTUAL NUMBERS AND LOCATIONS OF DEVICES SHALL BE AS RECOMMENDED BY THE LIGHTING CONTROL MANUFACTURER/SUPPLIER. CONTRACTOR SHALL FURNISH AND INSTALL POWER PACKS, AUXILIARY RELAYS, LOW VOLTAGE TRANSFORMERS, TRANSFORMER DEVICES, ETC. AS REQUIRED AND RECOMMENDED BY THE LIGHTING CONTROL SYSTEM MANUFACTURER/SUPPLIER.
- H. LETTER NEXT TO LIGHTING FIXTURE INDICATE FIXTURE TYPE. REFER TO FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
- I. REFER TO PANEL SCHEDULE ON DRAWING E-3 FOR ADDITIONAL INFORMATION.
- J. EMERGENCY AND EXIT LIGHTING FIXTURES TO BE INSTALLED UNDER THIS CONTRACT SHALL BE FED FROM THE SAME CIRCUIT AS NORMAL LIGHTING IN SPACE AND SHALL BE CONNECTED AHEAD OF THE SWITCH.

NOTES

1. FURNISH AND INSTALL WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL WSX PDT WH OR EQUIVALENT.
2. FURNISH AND INSTALL WALL MOUNTED DIMMING VACANCY SENSOR, ACUITY "SENSOR SWITCH" MODEL WSX PDT D VA WH OR EQUIVALENT.
3. FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH, NPODM WH OR EQUIVALENT.
4. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL CM PDT 10 OR EQUIVALENT.
5. FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH WITH DIMMING, NLIGHT MODEL NPDM DX WH OR EQUIVALENT.
6. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR WITH DAYLIGHTING CONTROL, NLIGHT MODEL NCM PDT 10 ADCX AR RJB OR EQUIVALENT.
7. FURNISH AND INSTALL WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL WSX PDT WH LT OR EQUIVALENT.
8. LIGHT FIXTURE LOCATED IN SPACE THAT IS WET LOCATION LISTED. FURNISH AND INSTALL LIGHT SWITCH WITH WEATHERPROOF COVER OR ENCLOSURE.

SYMBOLS

- \$OS WALL MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 1
- \$VS WALL MOUNTED VACANCY SENSOR - REFER TO NOTE 2
- \$ SINGLE POLE SWITCH
- \$LD1 WALL MOUNTED ON/OFF SWITCH - REFER TO NOTE 3
- \$OS1 CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 4
- \$LD2 WALL MOUNTED ON/OFF SWITCH WITH DIMMING - REFER TO NOTES
- \$OS2 CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 6
- \$OS3 CEILING MOUNTED OCCUPANCY SENSOR WITH PHOTOCELL - REFER TO NOTE 7

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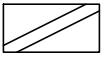
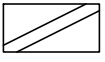



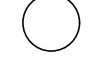
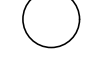




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




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LIGHTING PLAN

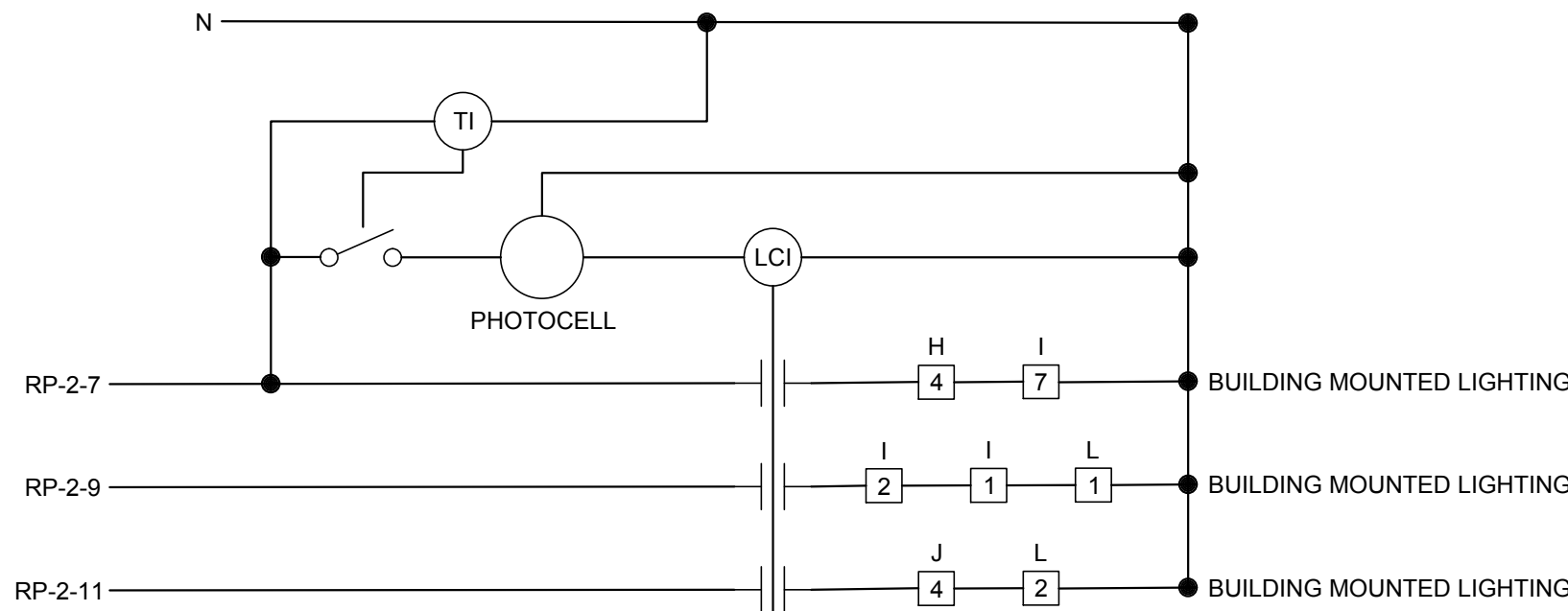
Project Number: **22712.A**

Sheet Number: **EL-114**

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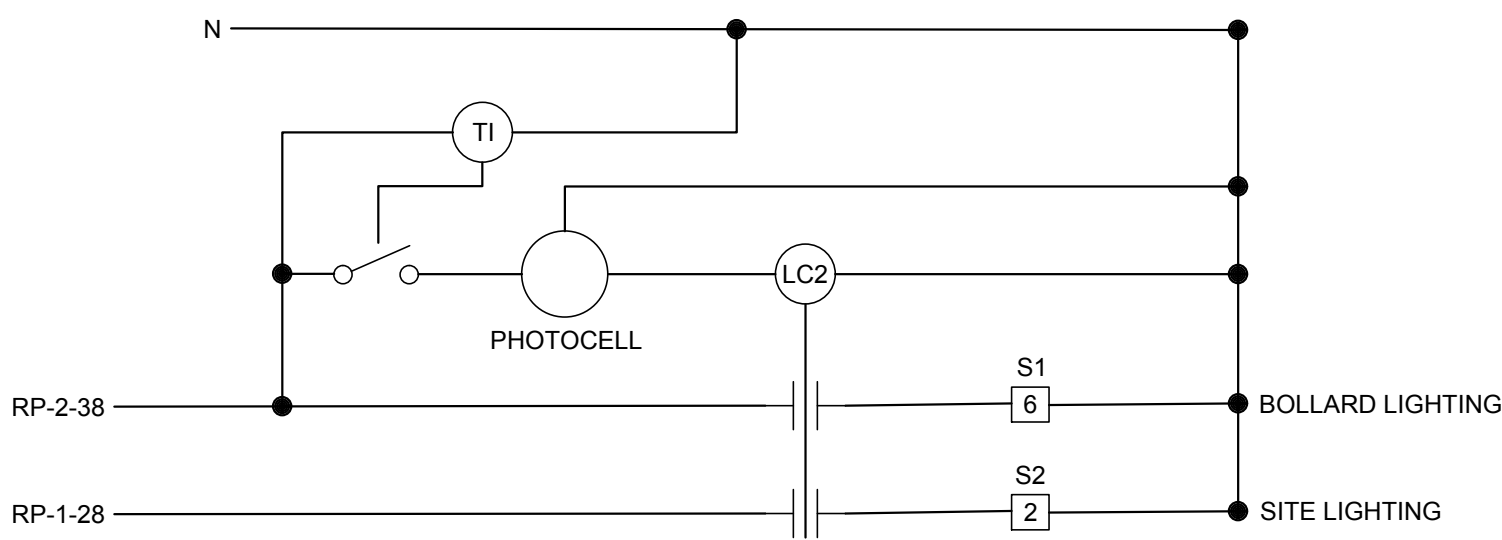
| FIXTURE SCHEDULE | | | | | | |
|---|------|---|--------------------------|--|--|------------|
| SYMBOL | TYPE | SIZE AND MOUNTING | VOLTAGE, (INPUT WATTAGE) | LAMPS AND LUMENS | MANUFACTURER / CATALOG NUMBER | REMARKS |
|  | A | 2' X 4' (NOMINAL) RECESSED TROFFER | 120V (24.1W) | 4000K WHITE LIGHT EMITTING DIODES - 3,269 LUMENS (NOMINAL) | LITHONIA "STACK" SERIES - STAK 2X4 3000 LM 80CRI 40K COL MIN10 ZT MVOLT | NOTE 8 |
|  | B | 2' X 4' (NOMINAL) RECESSED TROFFER | 120V (33.2W) | 4000K WHITE LIGHT EMITTING DIODES - 4,255 LUMENS (NOMINAL) | LITHONIA "STACK" SERIES - STAK 2X4 4000 LM 80CRI 40K COL MIN10 ZT MVOLT | NOTE 8 |
|  | C | 6" DIA (NOMINAL) DOWNLIGHT | 120V (10.44W) | 4000K WHITE LIGHT EMITTING DIODES - 952 LUMENS (NOMINAL) | LITHONIA "LDN6" SERIES - LDN6 40/10 L06AR LSS TRW MVOLT GZ10 | NOTE 9 |
|  | D | 6" DIA (NOMINAL) SHOWER DOWNLIGHT | 120V (14.7W) | 4000K WHITE LIGHT EMITTING DIODES - 980 LUMENS (NOMINAL) | GOTHAM "EVO SHOWER" SERIES - EVO6SH 40/15 DFR SMO MVOLT EZ1 | - |
|  | E | 2' X 2' (NOMINAL) RECESSED TROFFER | 120V (33.3W) | 4000K WHITE LIGHT EMITTING DIODES - 4,255 LUMENS (NOMINAL) | LITHONIA "STACK" SERIES - STAK 2X2 4000LM 80CRI 40K COL MIN10 ZT | NOTE 8 |
|  | F | 36" DIA (NOMINAL) PENDANT | 120V (28.4W) | 4000K WHITE LIGHT EMITTING DIODES - 2,779 LUMENS (NOMINAL) | EUREKA "ATOLL-4850" - 4850-60 D LED 40 90 120V DV' RDP RCA BLKE | NOTE 4 |
|  | G | 19" DIA (NOMINAL) ROUND LOWBAY | 120V (43W) | 4000K WHITE LIGHT EMITTING DIODES - 6,253 LUMENS (NOMINAL) | LITHONIA "VCVL" SERIES - VCVL LED V4 P3 80CRI T5M MVOLT AC6 DBLXD | NOTES 1,10 |
|  | H | WALL SCONCE | 120V (60W) | 4000K WHITE LIGHT EMITTING DIODES - 6,610 LUMENS (NOMINAL) | METEOR "LANCE 6" SERIES - LA6 60 408 UNV NOD 40 40 BLK NO OUT | NOTE 2 |
|  | I | 4" DIA (NOMINAL) SURFACE MOUNTED DOWNLIGHT WET LOCATION | 120V (10.58W) | 4000K WHITE LIGHT EMITTING DIODES - 1045 LUMENS (NOMINAL) | LITHONIA "LDN4CYL" SERIES - LDN4CYL 40/10 L04 AR LSS MVOLT GZ10 FCM WL DBL | - |
|  | J | EXTERIOR MANDOOR WALLPACK | 120V (15W) | 4000K WHITE LIGHT EMITTING DIODES - 1,978 LUMENS (NOMINAL) | LITHONIA "WDGE" LED - WDGE 1 LED 40K 8CRI VF MVOLT SRM E4WH DBLXD | NOTE 3 |
|  | K | 60" DIA (NOMINAL) PENDANT | 120V (48.7W) | 4000K WHITE LIGHT EMITTING DIODES - 4759 LUMENS (NOMINAL) | EUREKA "ATOLL-4856" - 4850-60 D LED 40 90 120V DV' RDP AC RCA BLKE | NOTE 4 |

| FIXTURE SCHEDULE | | | | | | |
|---|------|---------------------------------------|--------------------------|---|--|----------|
| SYMBOL | TYPE | SIZE AND MOUNTING | VOLTAGE, (INPUT WATTAGE) | LAMPS AND LUMENS | MANUFACTURER / CATALOG NUMBER | REMARKS |
|  | L | WALLPACK | 120V (88W) | 4000K WHITE LIGHT EMITTING DIODES - 12,277 LUMENS (NOMINAL) | LITHONIA "WEDGE" SERIES - WEDGE 3 P4 40K 80CRI RFT MVOLT SRM E15WH DBLXD | NOTE 5 |
|  | M | 1' X 4' (NOMINAL) SURFACE STRIP LIGHT | 120V (25.5W) | 4000K WHITE LIGHT EMITTING DIODES - 3,000 LUMENS (NOMINAL) | LITHONIA "CLX" SERIES - CLX L48 4000LV SEF RDL MVOLT G21 40K 80CRI WH | - |
|  | N | UNDERCABINET LIGHTING | 120V (16.4W) | 3,500K WHITE LIGHT EMITTING DIODES - 1,161 LUMENS (NOMINAL) | LITHONIA "UCES" SERIES - UCES 36IN SWW6 90CRI WH M6 | - |
|  | X | EXIT LIGHT - CEILING OR WALL MOUNT | 120V (4.3W) | RED LIGHT EMITTING DIODESS | LITHONIA "LHQM" SERIES - LHQM LED HORO | NOTE 6,7 |
|  | S1 | SITE BOLLARD | 120V (5W) | 3000K WHITE LIGHT EMITTING DIODES - 457 LUMENS (NOMINAL) | DELTA "WKB" SERIES - WKB L 7 SP 30 FX N XX INC ND-120 | NOTE 11 |
|  | S2 | SITE POLE MOUNTED LIGHT FIXTURES | 120V (69W) | 4000K WHITE LIGHT EMITTING DIODES - 8,988 LUMENS (NOMINAL) | LITHONIA "DSXO" SERIES - DSXO P3 40K 70CRI 1FTM MVOLT SPA DBBXD | NOTE 12 |



LIGHTING CONTACTOR LC1 (NOTE C)

- NOTES
- FURNISH AND INSTALL LIGHTING CONTACTOR TO BE CONTROLLED BY PHOTOCELL AND TIME CLOCK, 3 POLE, 277VAC COILS, ELECTRICALLY HELD, NEMA 1 ENCLOSURE, SQUARE D 8903 MODEL SPG61V04K14. FURNISH AND INSTALL PHOTOCELL, INTERMATIC K4236C OR EQUAL. PHOTOCELL TO BE MOUNTED ON EXTERIOR OF BUILDING FACING NORTH. TIME CLOCK SHALL BE CAPABLE OF BEING SET BY OWNER.



LIGHTING CONTACTOR LC2 (NOTE C)

- NOTES
- FURNISH AND INSTALL LIGHTING CONTACTOR TO BE CONTROLLED BY PHOTOCELL AND TIME CLOCK, 3 POLE, 277VAC COILS, ELECTRICALLY HELD, NEMA 1 ENCLOSURE, SQUARE D 8903 MODEL SPG61V04K14. FURNISH AND INSTALL PHOTOCELL, INTERMATIC K4236C OR EQUAL. PHOTOCELL TO BE MOUNTED ON EXTERIOR OF BUILDING FACING NORTH. TIME CLOCK SHALL BE CAPABLE OF BEING SET BY OWNER.

GENERAL NOTES

- REFER TO ELECTRICAL SPECIFICATIONS ON DRAWING E-1 FOR ADDITIONAL INFORMATION.
- LIGHTING FIXTURE MANUFACTURER AND MODEL SERIES SHOWN IN LIGHTING FIXTURE SCHEDULE AND ON PLAN ARE BASIS OF DESIGN. ALTERNATE MANUFACTURER AND EQUIPMENT LISTED THAT MEETS THE SALIENT CHARACTERISTICS OF THE LIGHTING FIXTURES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
- EXTERIOR LIGHTING CONTROL DEVICES AND CONTROL SYSTEMS SHALL BE TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS PER ASHRAE 90.1 - 2013 SECTION 9.4.3. TESTING OF THIS SYSTEM SHALL BE PERFORMED BY AN APPROVED THIRD-PARTY. DOCUMENTATION CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET OR EXCEED ALL DOCUMENTED PERFORMANCE CRITERIA SHALL BE RECEIVED ONCE COMMISSIONING OF EXTERIOR LIGHTING CONTROL SYSTEM IS COMPLETE.


NOTES

- REFER TO MOUNTING HEIGHTS ON LIGHTING PLANS FOR ADDITIONAL INFORMATION.
- MOUNT BOTTOM OF FIXTURE 6'-0" ABOVE FINISHED FLOOR.
- MOUNT BOTTOM OF FIXTURE 1'-0" ABOVE MANDOOR FRAME.
- MOUNT BOTTOM OF FIXTURE 10'-0" ABOVE FINISHED FLOOR.
- MOUNT BOTTOM OF FIXTURE 16'-0" ABOVE FINISHED FLOOR.
- FOR WALL MOUNTED FIXTURES, MOUNT BOTTOM OF FIXTURE 8'-0" ABOVE FINISHED FLOOR.
- FIXTURE SHALL MEET NFPA LIFE SAFETY CODE 101 AND BE LISTED UNDER UL924.
- FOR FIXTURES WITH HALF-SHADING ON FLOOR PLAN, FURNISH AND INSTALL FIXTURE WITH E15WLCP BATTERY PACK.
- FOR FIXTURES WITH HALF -SHADING ON FLOOR PLAN, FURNISH AND INSTALL FIXTURE WITH ELSD BATTERY PACK.
- FOR FIXTURES WITH HALF-SHADING ON FLOOR PLAN, FURNISH AND INSTALL FIXTURE WITH E10WH BATTERY PACK.
- VERIFY MOUNTING REQUIREMENTS REQUIRED IN FIELD PRIOR TO ORDERING FIXTURE.
- FURNISH AND INSTALL 15'-0" LIGHT POLE, LITHONIA LIGHTING SSA 15 4C DBDXD, WITH DM19AS MOUNTING. CONTRACTOR SHALL FIELD VERIFY EXISTING LIGHT POLE ANCHOR BOLT ORIENTATION AND COORDINATE WITH NEW LIGHT POLE FOR COMPATIBILITY PRIOR TO PURCHASE OF LIGHT POLE.

LIGHTING CONTROL SEQUENCE OF OPERATION

LIGHTING CONTROL SYSTEM HAS BEEN DESIGNED TO MEET SPECIFIC OPERATIONAL REQUIREMENTS AND FUNCTIONALITY AS FOLLOWS:


- DOG ROOM/VISIT 107, DOG ROOM/VISIT 108, DOG ROOM/VISIT 109, OFFICE 113, OFFICE 114, OFFICE 115, OFFICE 116, CAT PLAY/VISIT ROOM 125, CAT PLAY ROOM 126, CAT PLAY ROOM 127, FELINE LAUNDRY 143, CAT HOLD/CAT RECOVERY 136, CAT ISO 133, DOG ISO 134, CAT WASH 129, CANINE LAUNDRY 146, CANINE FOOD PREP 145
 - CONTROLLED BY: WALL MOUNTED VACANCY SENSOR WITH DIMMING CONTROL NEAR DOOR OF EACH ROOM.
 - CIRCUIT CAPABILITY: SINGLE.
 - TIME DELAY: SET FOR 10-MINUTE DELAY.
 - SYSTEM BRANCH: NORMAL AND EMERGENCY.
 - AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- MECH/ELEC 110, MECH/ELEC 117, MECHANICAL ROOM 131
 - CONTROLLED BY: CONVENTIONAL WALL MOUNTED TOGGLE SWITCHES NEAR MAIN ACCESS DOOR(S). AUTOMATIC CONTROLS ARE EXEMPT FOR SAFETY REASONS.
 - CIRCUIT CAPABILITY: SINGLE.
 - TIME DELAY: NONE.
 - SYSTEM BRANCH: NORMAL AND EMERGENCY.
 - AUTOMATIC SWITCHING MODE: NONE.
- EMPLOYEE BREAK ROOM 112, INTAKE CHECK IN/QUEST VET 132
 - CONTROLLED BY: LOCAL CEILING MOUNTED OCCUPANCY SENSOR(S) WITH LOCAL WALL MOUNTED ON/OFF DIMMER SWITCHES AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
 - CIRCUIT CAPABILITY: SINGLE.
 - TIME DELAY: SET FOR 10-MINUTE DELAY.
 - SYSTEM BRANCH: NORMAL AND EMERGENCY.
 - AUTOMATIC SWITCHING MODE: MANUAL OR AUTOMATIC OFF.
- HALLWAY 111, HALLWAY 118, HALLWAY 119, MEN'S TOILET ROOM 103, WOMEN'S TOILET ROOM 104, EMPLOYEE WOMEN'S TOILET ROOM 121, EMPLOYEE MEN'S TOILET ROOM 122, HALLWAY 124, HALLWAY 120, HALLWAY 137, MISC. STORAGE 130, HALLWAY TO CANINE KENNEL, DELIVERY/PICKUP/STORAGE 138
 - CONTROLLED BY: LOCAL CEILING MOUNTED OCCUPANCY SENSOR(S) WITH LOCAL WALL MOUNTED ON/OFF SWITCHES AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
 - CIRCUIT CAPABILITY: SINGLE.
 - TIME DELAY: SET FOR 10-MINUTE DELAY.
 - SYSTEM BRANCH: NORMAL AND EMERGENCY.
 - AUTOMATIC SWITCHING MODE: AUTOMATIC ON; MANUAL OR AUTOMATIC OFF.
- RECEPTION 102
 - CONTROLLED BY: FIXTURE TYPE A & C CONTROLLED BY LOCAL CEILING MOUNTED OCCUPANCY SENSOR(S) WITH LOCAL WALL MOUNTED ON/OFF DIMMER SWITCHES AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
 - CIRCUIT CAPABILITY: SINGLE.
 - TIME DELAY: SET FOR 10-MINUTE DELAY.
 - SYSTEM BRANCH: NORMAL AND EMERGENCY.
 - AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- LOBBY 100, VESTIBULE 101, GUN RANGE ENTRY CORRIDOR 152
 - CONTROLLED BY: LOCAL CEILING MOUNTED OCCUPANCY SENSOR(S) WITH DAYLIGHTING CONTOL AND LOCAL WALL MOUNTED ON/OFF SWITCHES AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
 - CIRCUIT CAPABILITY: SINGLE.
 - TIME DELAY: SET FOR 10-MINUTE DELAY.
 - SYSTEM BRANCH: NORMAL AND EMERGENCY.
 - AUTOMATIC SWITCHING MODE: AUTOMATIC ON; MANUAL OR AUTOMATIC OFF.
- FELINE KENNEL 128, CANINE KENNEL 1 149, CANINE KENNEL 2 148
 - CONTROLLED BY: LOCAL CEILING MOUNTED OCCUPANCY SENSOR(S) WITH DAYLIGHTING CONTOL AND LOCAL WALL MOUNTED ON/OFF SWITCHES WITH DIMMING AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
 - CIRCUIT CAPABILITY: SINGLE.
 - TIME DELAY: SET FOR 10-MINUTE DELAY.
 - SYSTEM BRANCH: NORMAL AND EMERGENCY.
 - AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- MULTIPURPOSE STORAGE ROOM 106, SHOWER 123, GUN RANGGE ENTRY VESTIBULE 151
 - CONTROLLED BY: WALL MOUNTED OCCUPANCY SENSOR NEAR DOOR OF EACH ROOM.
 - CIRCUIT CAPABILITY: SINGLE.
 - TIME DELAY: SET FOR 10-MINUTE DELAY.
 - SYSTEM BRANCH: NORMAL AND EMERGENCY.
 - AUTOMATIC SWITCHING MODE: AUTOMATIC ON; MANUAL OR AUTOMATIC OFF.
- DOG HOLD 140, DOG RECOVERY 141, DOG WASH 150, PUPPY KENNEL 144, QUARANTINE 147
 - CONTROLLED BY: FIXTURE MOUNTED OCCUPANCY SENSOR(S) WITH LOCAL WALL MOUNTED ON/OFF DIMMER SWITCHES AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
 - CIRCUIT CAPABILITY: SINGLE.
 - TIME DELAY: SET FOR 10-MINUTE DELAY.
 - SYSTEM BRANCH: NORMAL AND EMERGENCY.
 - AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.



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Project:

City of Taylor
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12-21-2023 OWNER REVIEW
01-17-2024 PERMIT REVIEW

Drawn: JDM
Checked: LKR
Approved: SRK

Sheet Title:

ELECTRICAL LIGHTING FIXTURE SCHEDULE

Project Number: 22712.A

Sheet Number: **EL-600**

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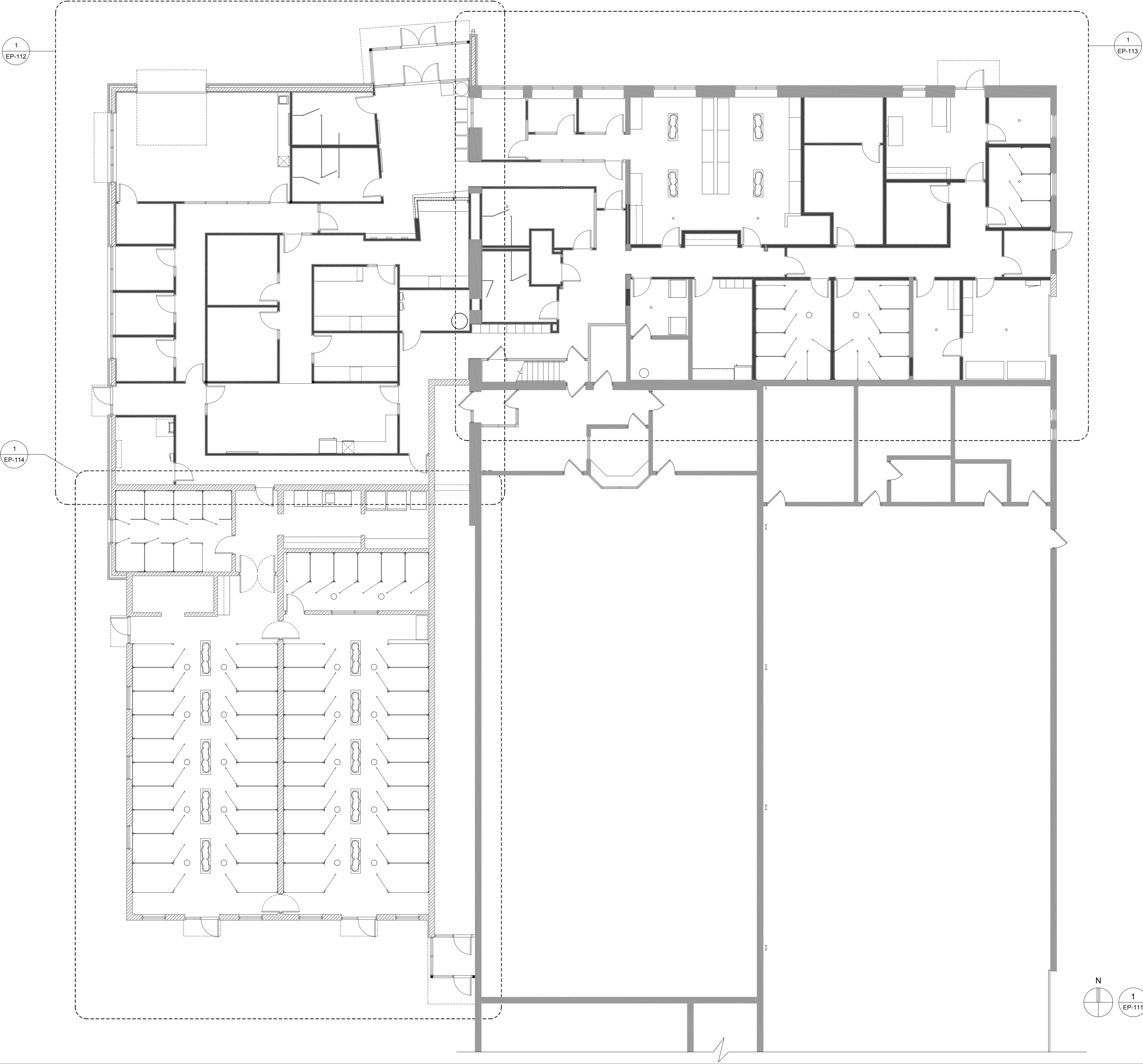
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Sheet Title:
**OVERALL
ELECTRICAL
POWER
FLOOR PLAN**

Project Number: 22712.A

Sheet Number: **EP-111**

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- C. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
- E. REFER TO PARTIAL ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- F. REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.

NOTES

1. TYPICAL VOICE/DATA, WALL PHONES, AND DATA OUTLETS SHALL BE 4" X 4" X 2 3/4" BOX WITH SINGLE GANG MOD RING AND 1" CONDUIT WITH PULL STRING TO OPEN SPACE ABOVE NEAREST CEILING (NORMALLY IN SAME ROOM). VOICE/DATA CABLING AND TERMINATIONS SHALL BE FURNISHED AND INSTALLED BY OWNER'S IT CONTRACTOR.

SYMBOLS

- ⊕ 20A DUPLEX RECEPTACLE
- ⊕ 20A GFCI DUPLEX RECEPTACLE
- ⊕ 20A GFCI OVERCOUNTER DUPLEX RECEPTACLE
- ⊕ 20A OVERCOUNTER DUPLEX RECEPTACLE
- ⊕ 20A GFCI WEATHERPROOF DUPLEX RECEPTACLE
- ⊕ SPECIAL USE RECEPTACLE
- ▼ VOICE / DATA OUTLET - REFER TO NOTE 1
- ▼ WALL MOUNT PHONE OUTLET - REFER TO NOTE 1
- ▽ DATA OUTLET - REFER TO NOTE 1



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Project:
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Animal Shelter
Remodel & Expansion

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| 01-17-2024 | PERMIT REVIEW |

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| Drawn: | JDM |
| Checked: | LMR |
| Approved: | SRK |

Sheet Title:
**ENLARGED
ELECTRICAL
POWER
FLOOR PLAN**

Project Number: 22712.A

Sheet Number: **EP-112**

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GENERAL NOTES

- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SUBJECT TO MINOR MODIFICATIONS BY THE OWNER/ENGINEER.
- USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
- REFER TO PARTIAL ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.
- SHADING INDICATES AREAS OF EXISTING DEVICES, EQUIPMENT, AND FEEDERS THAT ARE TO REMAIN UNLESS OTHERWISE NOTED. AREAS FEATURING NO SHADING INDICATE WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT.

NOTES

- TYPICAL VOICE/DATA AND WALL PHONE OUTLETS SHALL BE 4" X 4" X 2 3/4" BOX WITH SINGLE GANG MUD RING AND 1" CONDUIT WITH PULL STRING TO OPEN SPACE ABOVE NEAREST CEILING (NORMALLY IN SAME ROOM). VOICE / DATA CABLING AND TERMINATIONS SHALL BE FURNISHED AND INSTALLED BY OWNERS IT CONTRACTOR.
- OVERHEAD DOOR BASIS OF DESIGN: 3HP @ 208V, 3PH. OVERHEAD DOOR MOTOR SHALL INCLUDE CONTROLLER AND CONTROL PUSH BUTTONS. CONTRACTOR SHALL FURNISH AND INSTALL A 30A DISCONNECT SWITCH (FUSED OR NON-FUSED PER OVERHEAD DOOR MANUFACTURER REQUIREMENTS) ADJACENT TO OVERHEAD DOOR CONTROLLER. FURNISH AND INSTALL CONDUIT AND WIRING TO LINE SIDE OF OVERHEAD DOOR CONTROLLER. COORDINATE ALL WORK WITH OVERHEAD DOOR INSTALLER.
- RE-FEED EXISTING PANEL TO NEW PANEL RP-3 WITH 2-1/2" #12, 1 #12 GND IN 3/4" CONDUIT.

SYMBOLS

- 20A DUPLEX RECEPTACLE
- 20A GFCI DUPLEX RECEPTACLE
- 20A GFCI OVERCOUNTER DUPLEX RECEPTACLE
- 20A GFCI WEATHERPROOF DUPLEX RECEPTACLE
- 20A OVERCOUNTER DUPLEX RECEPTACLE
- VOICE / DATA OUTLET - REFER TO NOTE 1
- WALL MOUNT PHONE OUTLET - REFER TO NOTE 1

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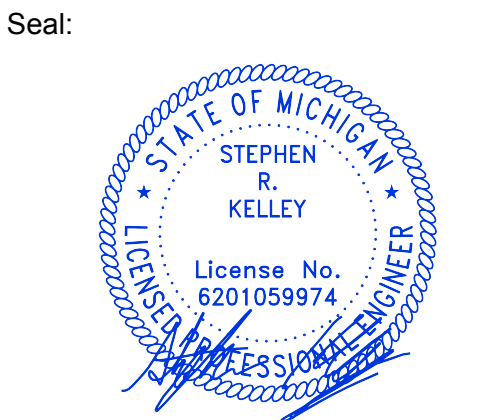
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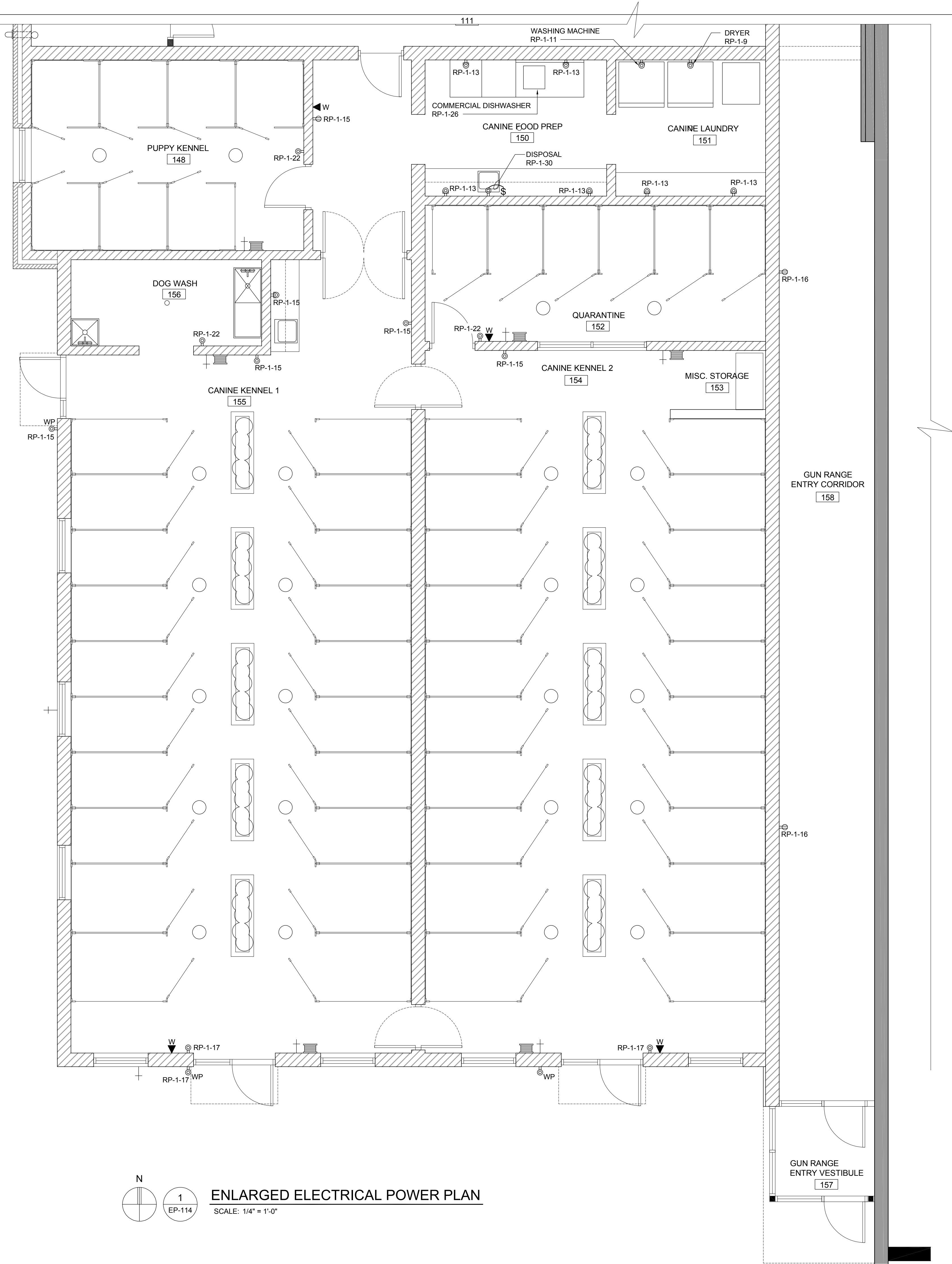
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Sheet Title:
ENLARGED
ELECTRICAL
POWER PLAN

Project Number: **22712.A**

Sheet Number: **EP-113**

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- B. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SUBJECT TO MINOR MODIFICATIONS BY THE OWNER/ENGINEER.
- C. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
- E. REFER TO PARTIAL ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- F. REFER TO PANEL SCHEDULE ON ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.

NOTES

1. TYPICAL WALL PHONE OUTLETS SHALL BE 4" X 4" X 2 3/4" BOX WITH SINGLE GANG MUD RING AND 1" CONDUIT WITH PULL STRING TO OPEN SPACE ABOVE NEAREST CEILING (NORMALLY IN SAME ROOM). VOICE/DATA CABLING AND TERMINATIONS SHALL BE FURNISHED AND INSTALLED BY OWNER'S IT CONTRACTOR.

SYMBOLS


- ⌚ 20A DUPLEX RECEPTACLE
- ⌚ 20A GFCI DUPLEX RECEPTACLE
- ⌚ 20A GFCI OVERCOUNTER DUPLEX RECEPTACLE
- ⌚ 20A GFCI WEATHERPROOF DUPLEX RECEPTACLE
- WP ⌚ WALL MOUNT PHONE OUTLET - REFER TO NOTE 1



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Sheet Title:

**ENLARGED
ELECTRICAL
POWER PLAN**

Project Number: 22712.A

Sheet Number: **EP-114**

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- D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
- E. REFER TO PARTIAL ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- F. REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.

NOTES

- 1. DISCONNECT SWITCH SUPPLIED WITH UNIT.



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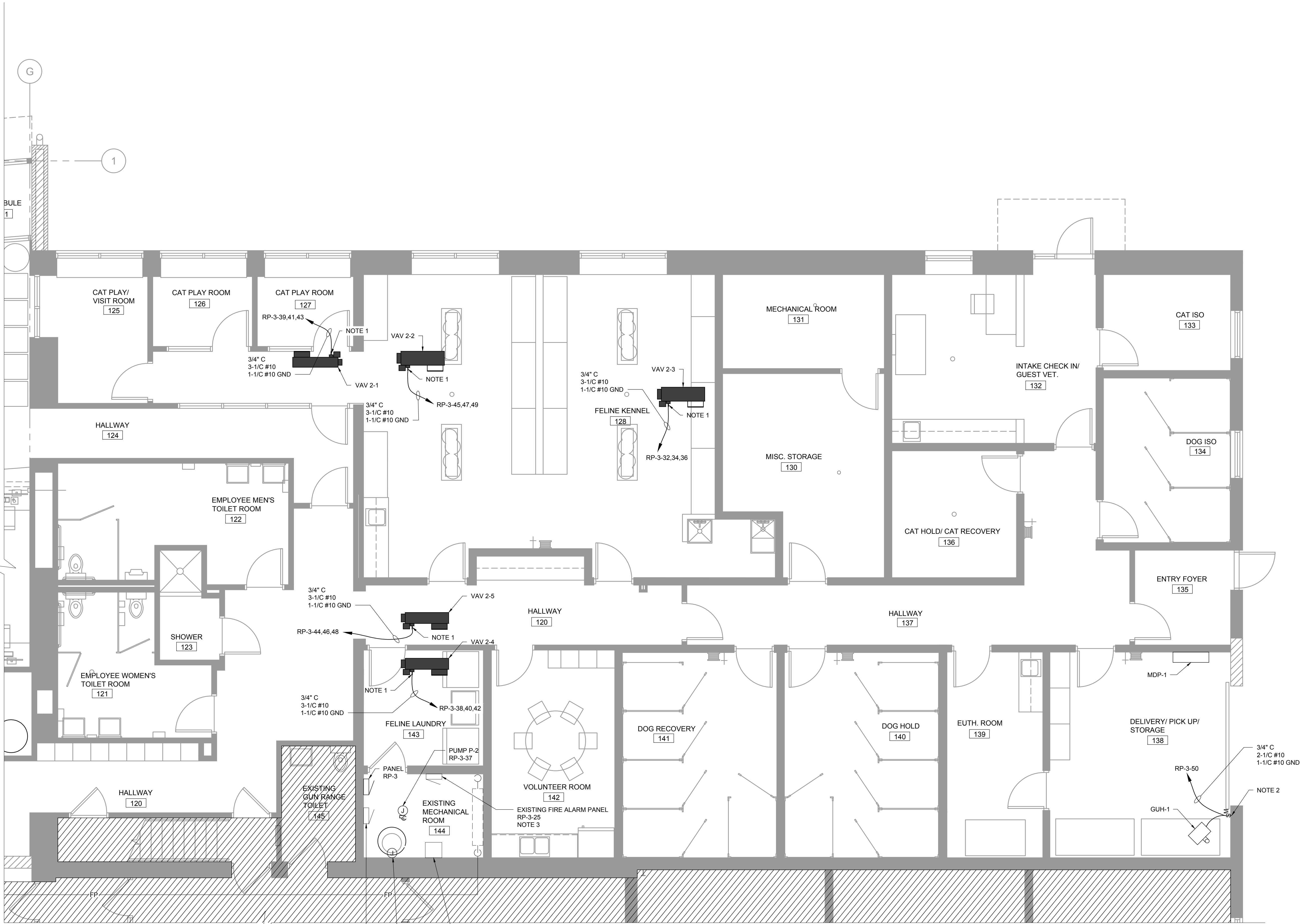
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Sheet Title:
**ENLARGED
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MECH. POWER
FLOOR PLAN**

Project Number: 22712.A

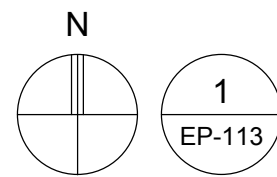
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- GENERAL NOTES**
- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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- C. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
- E. REFER TO PARTIAL ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- F. REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.
- G.  SHADING INDICATES AREAS OF EXISTING DEVICES, EQUIPMENT, AND FEEDERS THAT ARE TO REMAIN UNLESS OTHERWISE NOTED. AREAS FEATURING NO SHADING INDICATE WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT.

- NOTES**
1. DISCONNECT SWITCH SUPPLIED WITH UNIT.
2. FURNISH AND INSTALL A SQUARE D CLASS 2510 TYPE KG1A MOTOR RATED MANUAL SWITCHED WITH A NEMA 12 ENCLOSURE FOR UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.

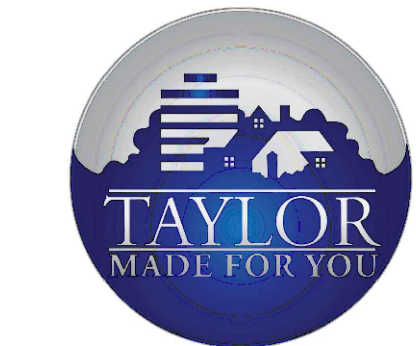


ENLARGED ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"


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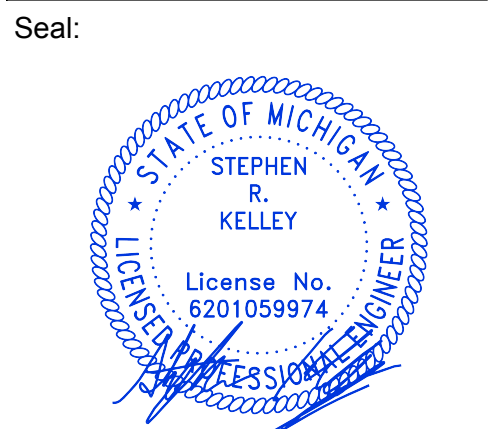
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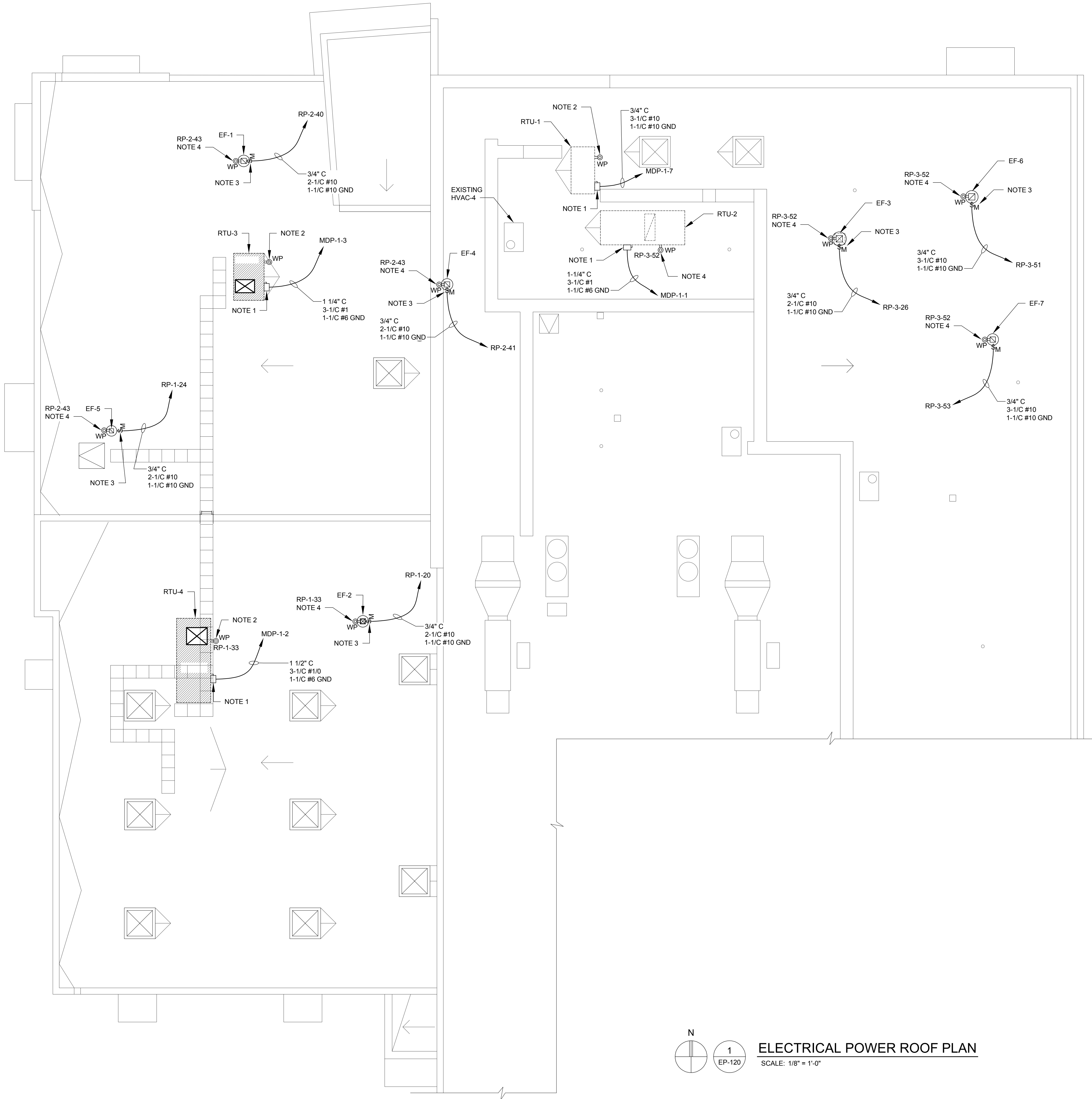
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Sheet Title:
ENLARGED
ELECTRICAL/
MECHANICAL
POWER PLAN

Project Number: 22712.A

Sheet Number: **EP-213**

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- C. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
- E. REFER TO PARTIAL ONE-LINE DIAGRAM ON THIS DRAWING FOR ADDITIONAL INFORMATION.
- F. REFER TO PANEL SCHEDULE ON THIS DRAWING FOR ADDITIONAL INFORMATION.

NOTES

1. NON-FUSED DISCONNECT SWITCH SUPPLIED WITH UNIT.
2. 120V MAINTENANCE RECEPTACLE PROVIDED AND FED FROM UNIT.
3. MOTOR RATED TOGGLE DISCONNECT SWITCH SUPPLIED WITH UNIT.
4. FURNISH AND INSTALL A 20A, 1P, 115V CONVENIENCE OUTLET FOR UNIT PER NEC 210.63.

SYMBOLS


- \$M MOTOR RATED TOGGLE SWITCH
- DISCONNECT SWITCH
- Ⓜ WP 20A GFCI WEATHERPROOF RECEPTACLE



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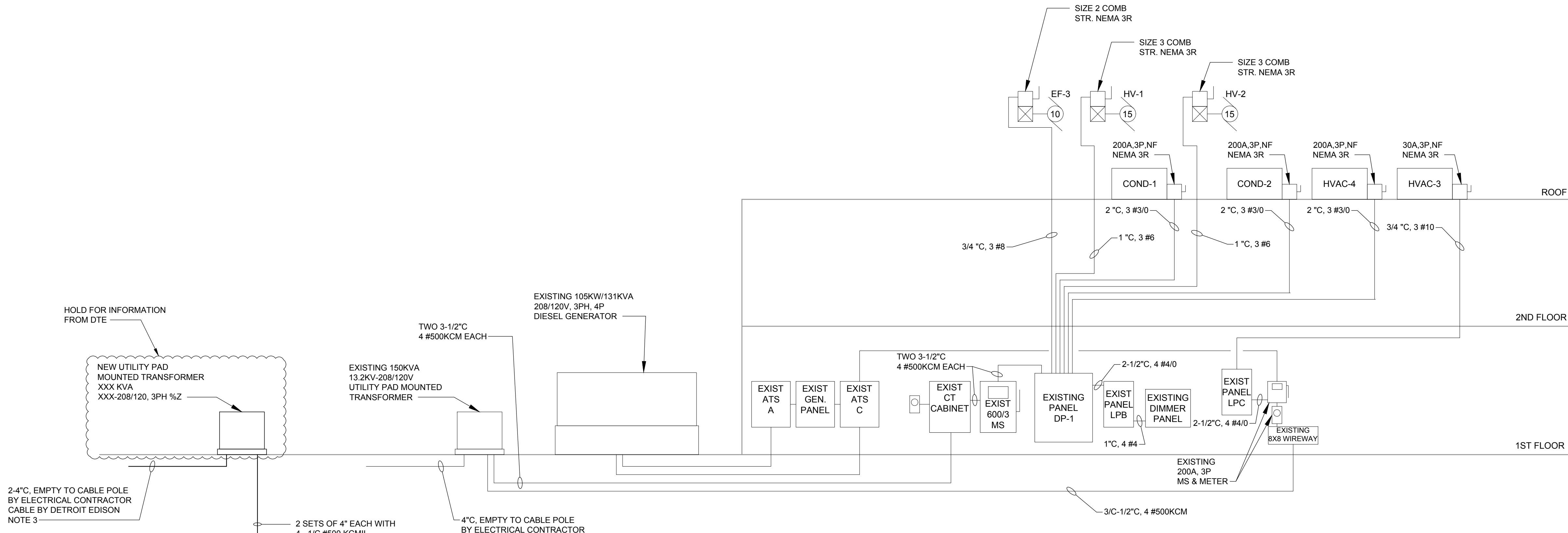
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Sheet Title:
ELECTRICAL
POWER
ROOF PLAN

Project Number: 22712.A

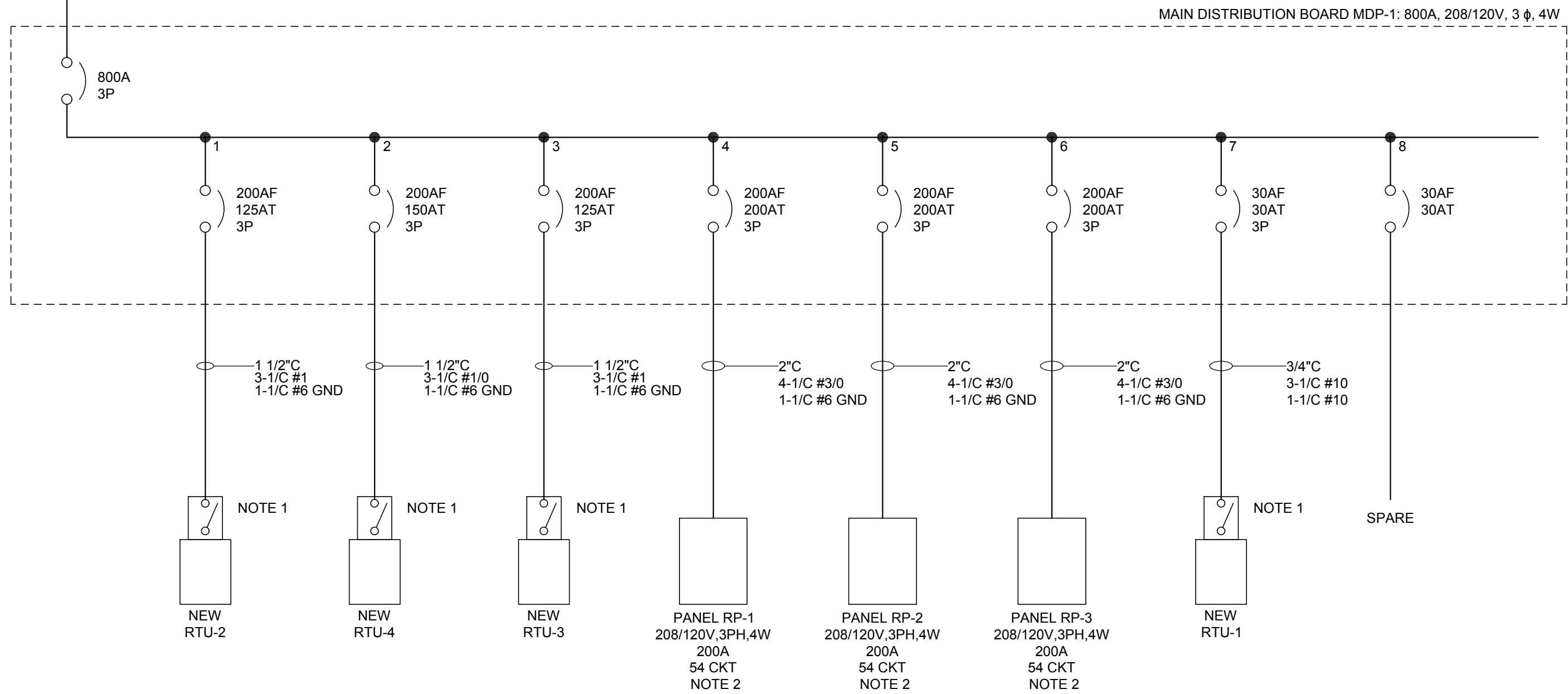
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EXISTING ELECTRICAL RISER DIAGRAM

SCALE: NTS



INSTALLATION ELECTRICAL ONE-LINE DIAGRAM

SCALE: NTS

GENERAL NOTES:

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. REFER TO ELECTRICAL GROUNDING DETAILS ON SHEET EP-601 FOR ADDITIONAL INFORMATION.
- C. REFER TO PANEL SCHEDULES ON DRAWING EP-602 FOR ADDITIONAL INFORMATION.

NOTES:

1. NEMA 3R DISCONNECT SWITCH SUPPLIED WITH UNIT.
2. FURNISH AND INSTALL A 200A MCB, 208/120V, 3PH, 4W PANELBOARD, SQUARE D INTERIOR NQ454L2C WITH BOX (NEMA 1) CAT #MH50 AND NC50S FRONT, PK22GTACU EQUIPMENT GROUND BAR AND NGN2CU NEUTRAL BAR OR EQUIVALENT BY EATON.
3. CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL SERVICE UTILITY PROVIDER FOR EXACT LOCATION OF POINT OF SERVICE TIE IN.



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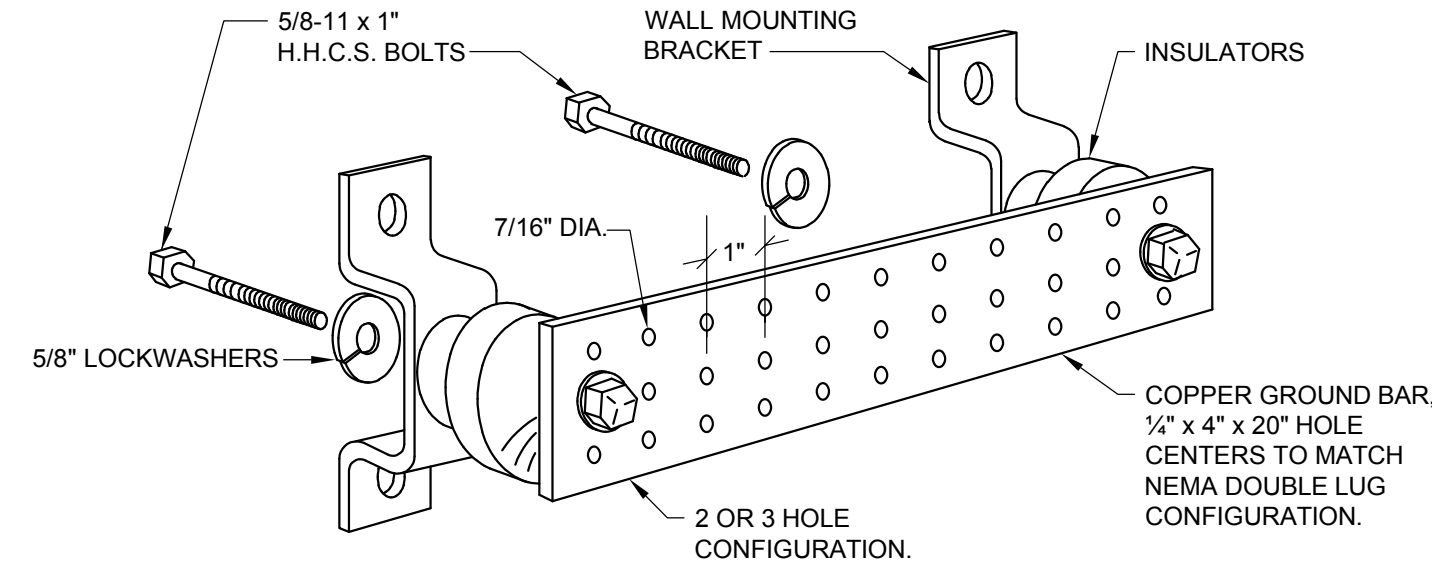
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Sheet Title:
**ELECTRICAL
ONE-LINE
DIAGRAM**

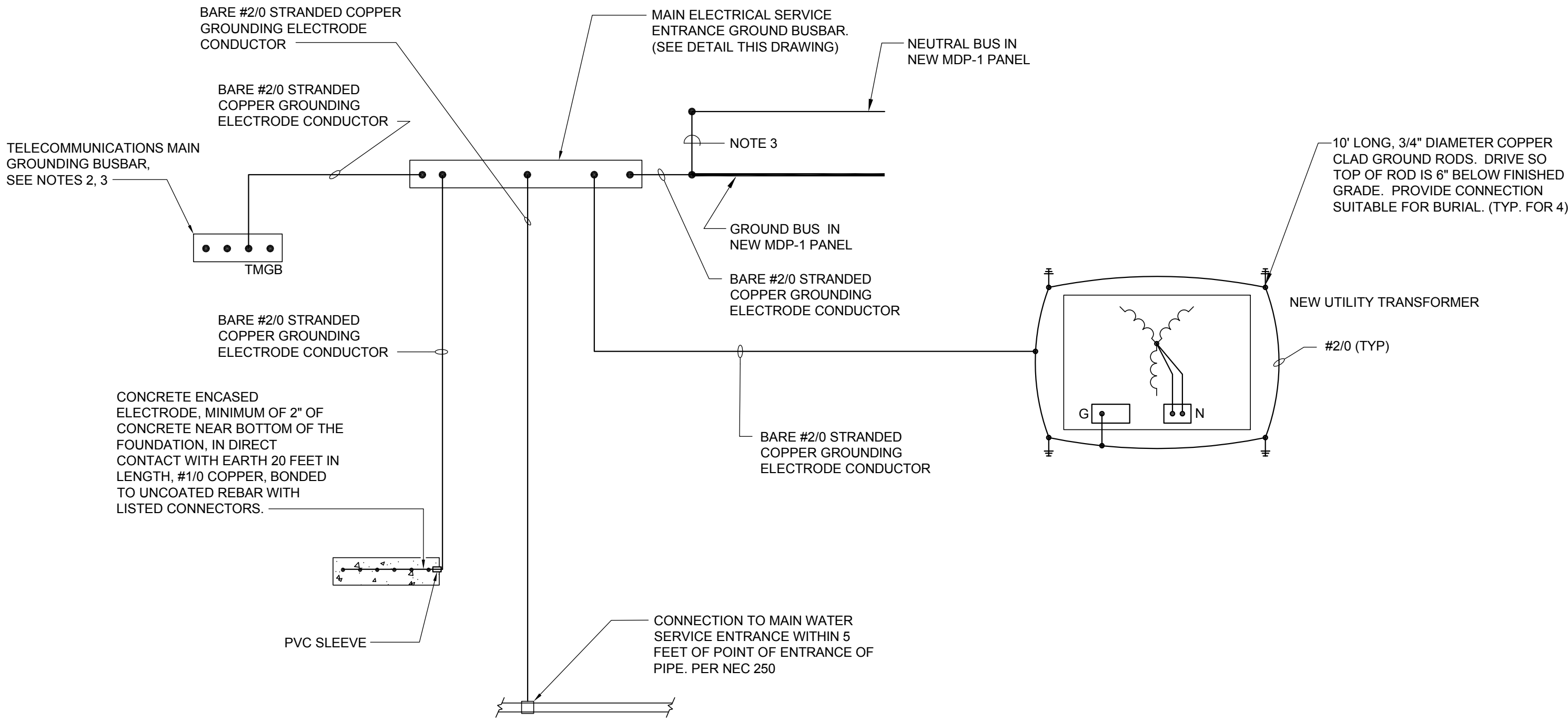
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Sheet Number: **EP-600**

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MAIN ELECTRICAL SERVICE ENTRANCE GROUND BUSBAR DETAIL
SCALE: N.T.S.



ELECTRICAL SERVICE GROUNDING DETAIL WITH GROUNDING BUSBARS

SCALE: N.T.S.

NOTES:

- TEST BUILDING GROUNDING SYSTEM IN ACCORDANCE WITH NETA STANDARDS.
- PROVIDE GROUNDING OF TELECOMMUNICATIONS EQUIPMENT TO TELECOMMUNICATION GROUND BUSBAR (TMGB) PER TELECOMMUNICATION VENDORS DIRECTION.
- TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB).
- ESTABLISH THE NEUTRAL TO GROUND CONNECTION INSIDE MDP-1

GENERAL NOTES:

- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING AND BONDING AS REQUIRED PER THE NATIONAL ELECTRIC CODE (N.E.C.) ARTICLE 250.



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Sheet Title:
**ELECTRICAL
GROUNDING
DETAILS**

Project Number: 22712.A

Sheet Number: **EP-601**

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| PANEL DESIGNATION: PANEL MDP-1 | | | | | | | | | | MAIN: 800A BREAKER | | | | | | | | | | P-P VOLTAGE: 208 | | | | | | | | | | | | |
| PANEL LOCATION: REFER TO PLAN DRAWINGS | | | | | | | | | | BUSSING: 800A | | | | | | | | | | P-N VOLTAGE: 120 | | | | | | | | | | | | |
| FED FROM: REFER TO ONE-LINE DIAGRAM | | | | | | | | | | GROUND BUS: STANDARD | | | | | | | | | | PHASE: 3 | | | | | | | | | | | | |
| FEEDER SIZE: REFER TO ONE-LINE DIAGRAM | | | | | | | | | | MOUNTING: SURFACE | | | | | | | | | | WIRE: 4 | | | | | | | | | | | | |
| | | | | | | | | | | NEUTRAL: 100% | | | | | | | | | | | | | | | | | | | | | | |
| Remarks | LIGHT LOAD | RECEPT LOAD | CONT LOAD | nonC LOAD | INTER. USE | OC PROT TRIP | OC PROT FRAME | CCT | Ø A | Ø B | Ø C | CCT | OC PROT FRAME | OC PROT TRIP | INTER. USE | nonC LOAD | CONT LOAD | RECEPT LOAD | LIGHT LOAD | Remarks | | | | | | | | | | | | |
| RTU-2 | | | | 13931 | | 125A | 200A | 1 | X | | 2 | 200A | 150A | | | 15612 | | | | RTU-4 | | | | | | | | | | | | |
| | | | | 13931 | | | | | | | | | | | 15612 | | | | | | | | | | | | | | | | | |
| | | | | 13931 | | | | | | | | | | | 15612 | | | | | | | | | | | | | | | | | |
| RTU-3 | | | | 13931 | | 125A | 200A | 3 | X | X | X | 4 | 200A | 200A | 1840 | 1400 | 2084 | 3060 | 1082 | PANEL RP-1 | | | | | | | | | | | | |
| | | | | 13931 | | | | | | | | | | | | 4400 | 0 | 2084 | 3060 | | 954 | | | | | | | | | | | |
| | | | | 13931 | | | | | | | | | | | | 5340 | 25 | 2084 | 1620 | | 602 | | | | | | | | | | | |
| PANEL RP-2 | 827 | 3060 | 8543 | 0 | 500 | 200A | 200A | 5 | X | X | X | 6 | 200A | 200A | 3421 | 13086 | 500 | 4860 | 603 | PANEL RP-3 | | | | | | | | | | | | |
| | 605 | 3240 | 8543 | 37 | 500 | | | | | | | | | | 4661 | 11286 | 1000 | 2160 | 500 | | | | | | | | | | | | | |
| | 538 | 2700 | 8543 | 30 | 550 | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | |
| RTU-1 | | | | 2642 | | 30A | 30A | 7 | X | X | X | 8 | 30A | 30A | | | | | | SPARE | | | | | | | | | | | | |
| | | | | 2642 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 2642 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONNECTED LOAD | | | | | DEMAND FACTOR | | | | | | | | | | DEMAND LOAD | | | | | | | | | | | | | | | | | |
| LOAD DESCRIPTION | | | | | ØA | ØB | ØC | TOTAL | 1.00 | | | | | | | | | | ØA | ØB | ØC | TOTAL | | | | | | | | | | |
| LIGHTING LOAD (VOLT-AMPS) | | | | | 2512 | 2059 | 1140 | 5710 | 1.00 (10kVA) | | | | | | | | | | 2512 | 2059 | 1140 | 5710 | | | | | | | | | | |
| 180VA RECEPTACLE LOAD (VOLT-AMPS) | | | | | 10980 | 8460 | 4320 | 23760 | 0.50 (> 10kVA) | | | | | | | | | | 4621 | 3561 | 1818 | 10000 | RECEPTACLE DEMAND FACTOR PER ARTICLE 220.44 OF THE NATIONAL ELECTRICAL CODE. | | | | | | | | | |
| AMOUNT OVER 10kVA | | | | | 13760 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONTINUOUS LOAD (VOLT-AMPS) | | | | | 11127 | 11627 | 10627 | 33381 | 1.25 | | | | | | | | | | 13909 | 14534 | 13284 | 41726 | | | | | | | | | | |
| NON-CONTINUOUS LOAD (VOLT-AMPS) | | | | | 63602 | 37439 | 46171 | 146212 | 1.00 | | | | | | | | | | 63602 | 37439 | 46171 | 146212 | | | | | | | | | | |
| INTERMITTENT USE LOAD (VOLT-AMPS) | | | | | 5761 | 9561 | 5890 | 21212 | 1.00 | | | | | | | | | | 5761 | 9561 | 5890 | 21212 | | | | | | | | | | |
| TOTAL LOAD (kVA) | | | | | 90198 | 8915 | 6815 | 24827 | 125% OF LIGHT, CONT AND RECEPT (<=10kVA) LOAD PLUS OTHER LOAD | | | | | | | | | | 90158 | 8910 | 6955 | 24874 | "PANEL MDP-1" | | | | | | | | | |
| TOTAL AMPACITY (AMPS) | | | | | 757.6 | 742.3 | 567.5 | 689.1 | <==== PER NEC ARTICLE 215.2 <==== | | | | | | | | | | 754.3 | 746.1 | 579.2 | 693.2 | | | | | | | | | | |
| MINIMUM FEEDER SIZING (AMPS) | | | | | 808.8 | 788.4 | 600.9 | 732.8 | | | | | | | | | | | 798.1 | 788.1 | 613.0 | 733.1 | | | | | | | | | | |