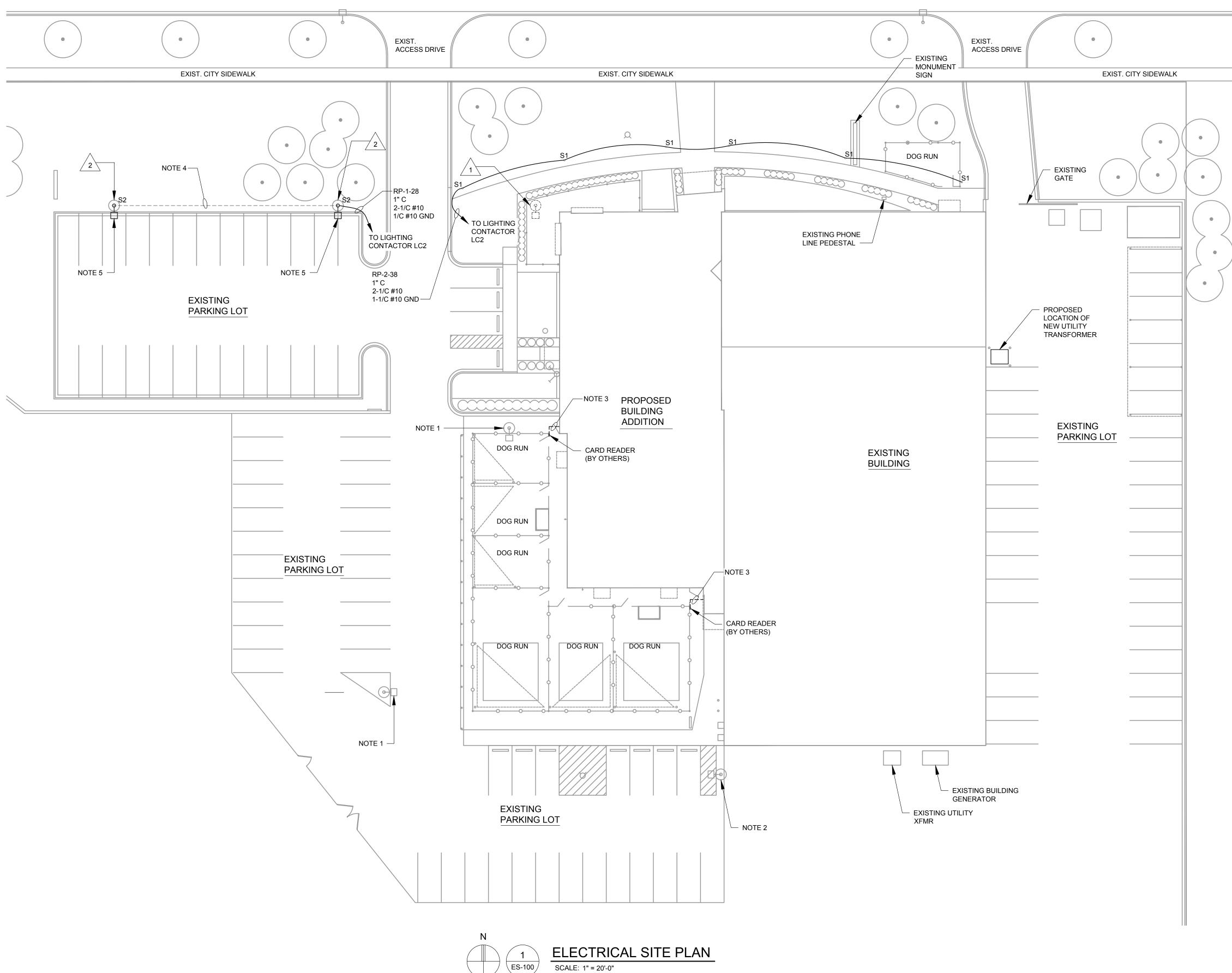
#### NORTHLINE ROAD



ES-100

#### **GENERAL NOTES**

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. REFER TO FIXTURE SCHEDULE ON DRAWING EL-600 FOR ADDITIONAL INFORMATION.
- REFER TO ONE-LINE DIAGRAM ON EP-600 FOR ADDITIONAL INFORMATION.
- D. REFER TO PANEL SCHEDULES ON EP-601 FOR ADDITIONAL INFORMATION.
- E. REFER TO LIGHTING CONTACTOR LCI SCHEMATIC ON DRAWING EL-601 FOR ADDITIONAL INFORMATION.

#### **DEMOLITION NOTES:**

DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE.

DISCONNECT AND REMOVE EXISTING SITE LIGHT POLE MOUNTED FIXTURE AND POLE. EXISTING WIRING AND POLE BASE TO REMAIN. 2 A NEW LIGHT POLE AND FIXTURE ARE TO BE INSTALLED UNDER THIS CONTRACT.

- 1. EXISTING LIGHT POLE AND FIXTURE TO REMAIN.
- 2. CONTRACTOR SHALL ROTATE EXISTING LIGHT FIXTURE ON POLE 180 DEGREES. FINAL DIRECTION OF EXISTING LIGHT FIXTURE SHALL BE POINTING WEST.
- FURNISH AND INSTALL 3/4" EMPTY CONDUIT WITH PULLSTRING FROM BUILDING TO CARD READER. CABLING SHALL BE FURNISHED AND INSTALLED BY OTHERS. COORDINATE FINAL REQUIREMENTS WITH SECURITY SYSTEM INSTALLATION CONTRACTORS PRIOR TO INSTALLATION.
- 4. EXISTING CONDUIT AND CABLING TO REMAIN.
- FURNISH AND INSTALL NEW LIGHT FIXTURE AND POLE ON EXISTING LIGHT POLE BASE SAVED FOR REUSE DURING DEMOLITION. RECONNECT EXISTING CIRCUIT WIRING SAVED FOR REUSE DURING DEMOLITION. CONTRACTOR SHALL FURNISH AND INSTALL NEW WIRING AS REQUIRED TO EXTEND EXISTING CIRCUIT WIRING TO LOCATION OF NEW LIGHT FIXTURE ON POLE.



ARCHITECTS \* ENGINEERS \* CONSULTANTS

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City of Taylor 23555 Goddard Rd. Taylor, MI 48180

City of Taylor Animal Shelter Remodel & Expansion

25555 Northline Rd. Taylor, MI 48180



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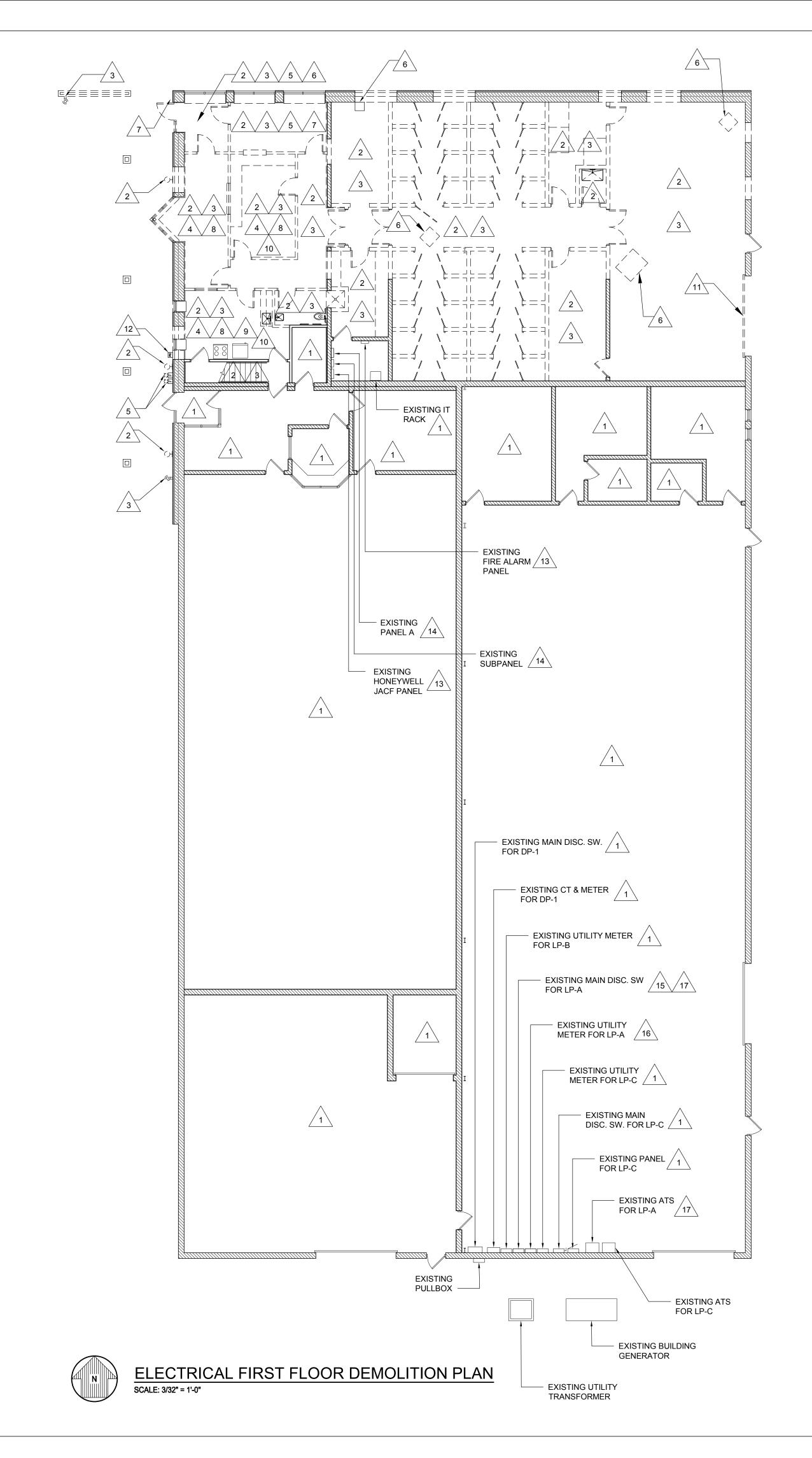
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Approved:	SF

Sheet Title:

ELECTRICAL PLAN

22712.A Project Number:

Sheet Number: ES-100



- 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:

EXISTING ELECTRICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.

DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE.

DISCONNECT AND REMOVE EXISTING RECEPTACLE OUTLETS, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER POSITION AS SPARE.

DISCONNECT AND REMOVE EXISTING DATA OUTLETS, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICES, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

MECHANICAL UNIT, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER POSITION AS SPARE.

DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT TO

DISCONNECT AND REMOVE EXISTING SECURITY EQUIPMENT, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

DISCONNECT AND REMOVE EXISTING SPEAKER EQUIPMENT, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

DISCONNECT AND REMOVE EXISTING TIME CARD SYSTEM INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE.

DISCONNECT AND REMOVE EXISTING WIFI EQUIPMENT INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. EQUIPMENT SHALL BE TURNED OVER TO OWNER.

DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT TO EXISTING OVERHEAD DOOR, INCLUDING, ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS

DISCONNECT AND REMOVE EXISTING PHOTOCELL, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

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.

DISCONNECT AND REMOVE EXISTING PANEL, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

16 DISCONNECT AND REMOVE EXISTING UTILITY METER.

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



 Date
 Issued For

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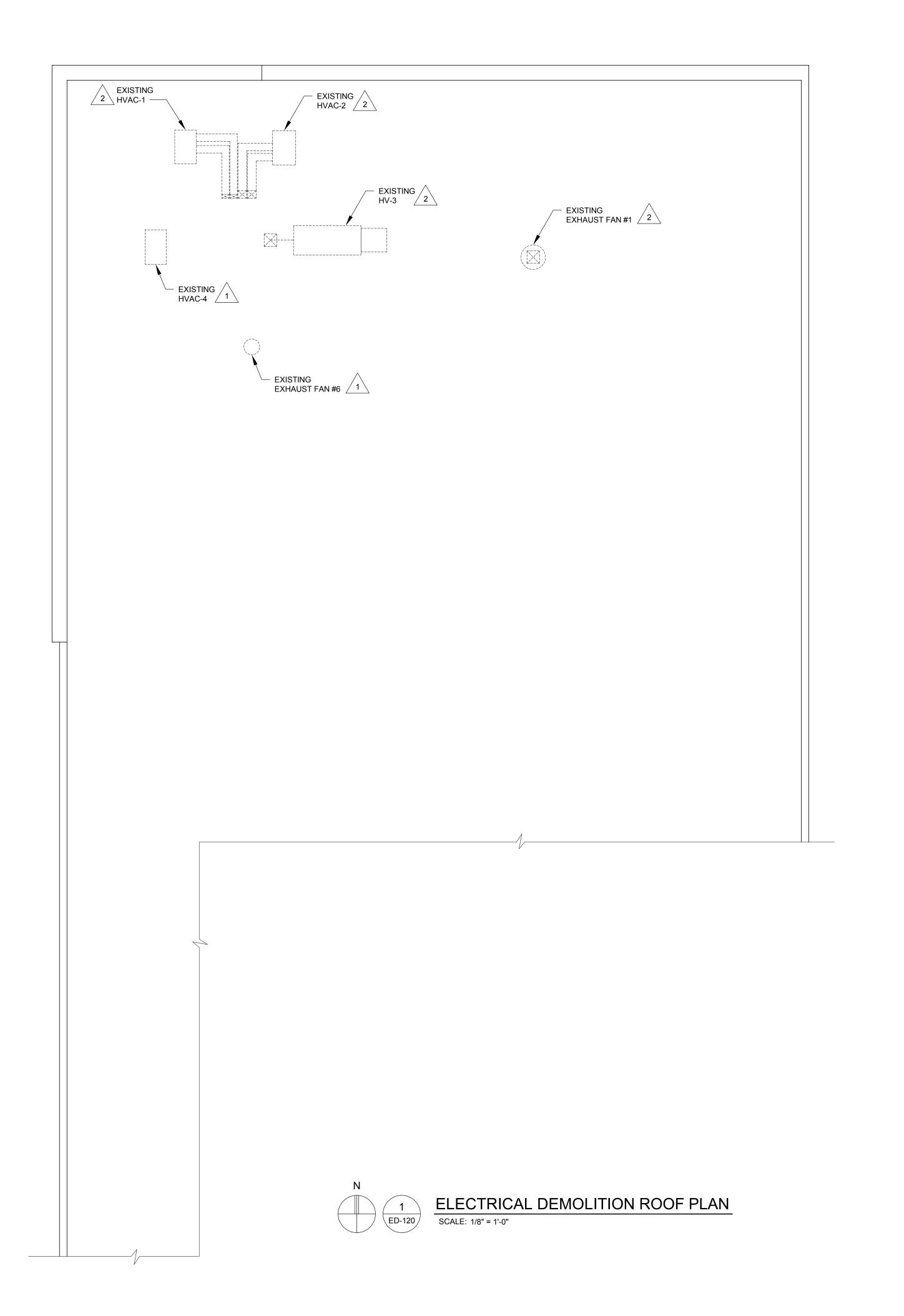
Drawn: JDM
Checked: LMR
Approved: SRK

Sheet Title:

ELECTRICAL FIRST FLOOR DEMOLITION PLAN

Project Number: 22712.A

Sheet Number: ED-110



- 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:

EXISTING ELECTRICAL EQUIPMENT ASSOCIATED WITH UNIT TO REMAIN.

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



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Client:

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City of Taylor Animal Shelter Remodel & Expansion

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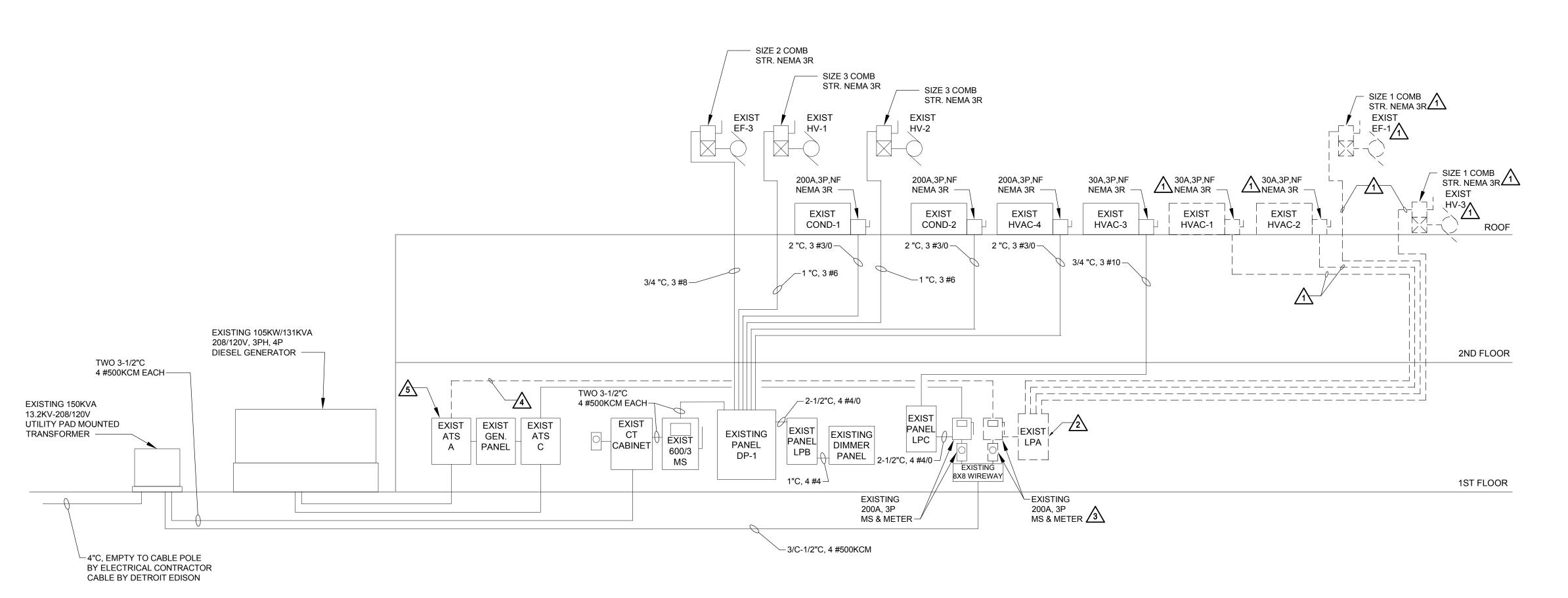
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Approved:	SRK

Sheet Title: ELECTRICAL DEMOLITION ROOF PLAN

Project Number: 22712.A

Sheet Number: ED-120

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#### ELECTRICAL DEMOLITION RISER DIAGRAM

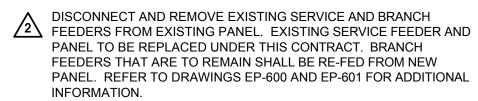
SCALE: NTS NOTE 1

#### **GENERAL NOTES**

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL SCOPE OF DEMOLITION WORK REQUIRED UNDER THIS CONTRACT AND COORDINATE WITH ELECTRICAL DEMOLITION WORK.
- C. 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 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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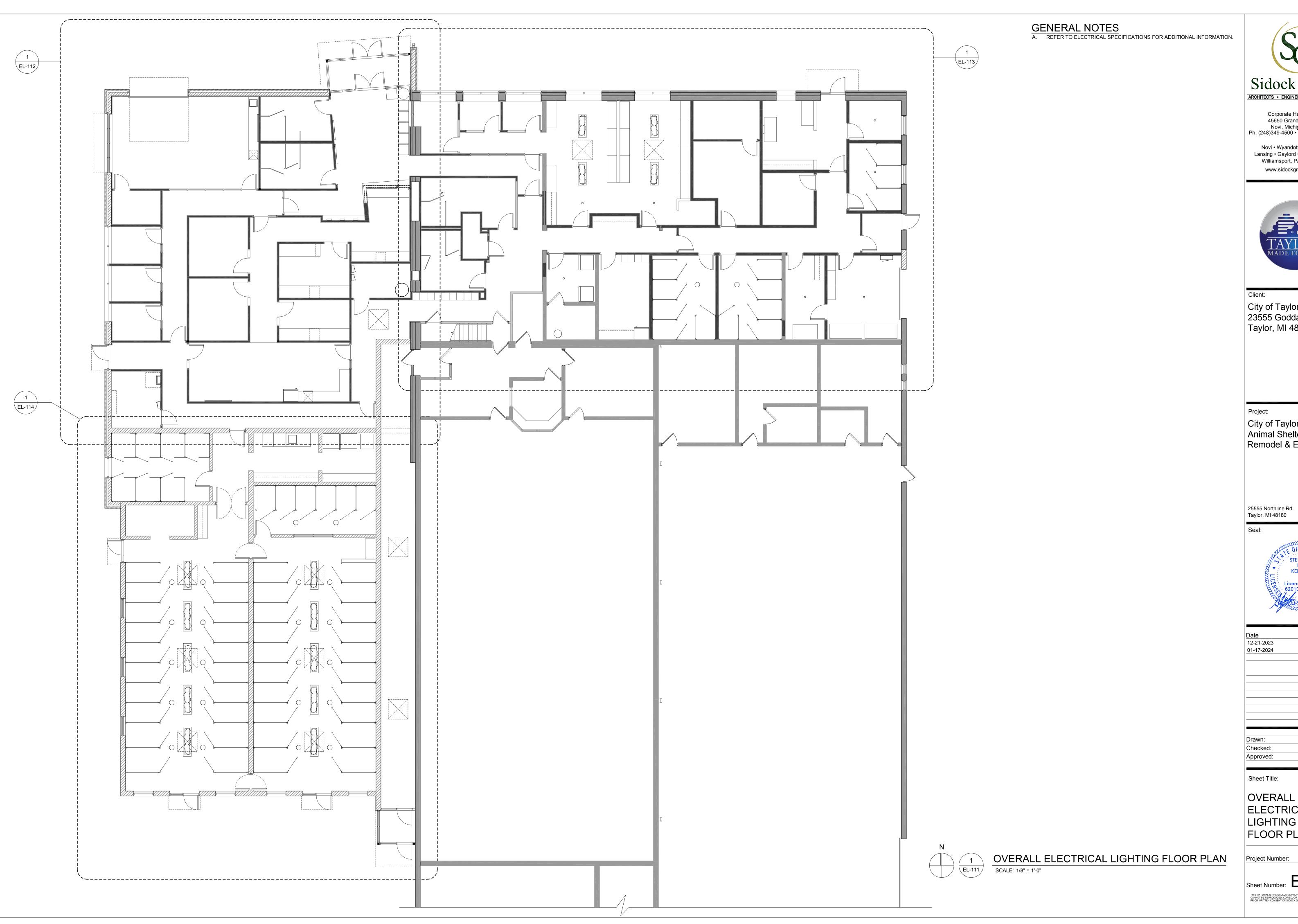
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ELECTRICAL DEMOLITION RISER DIAGRAM

Project Number: 22712.A

Sheet Number: ED-600

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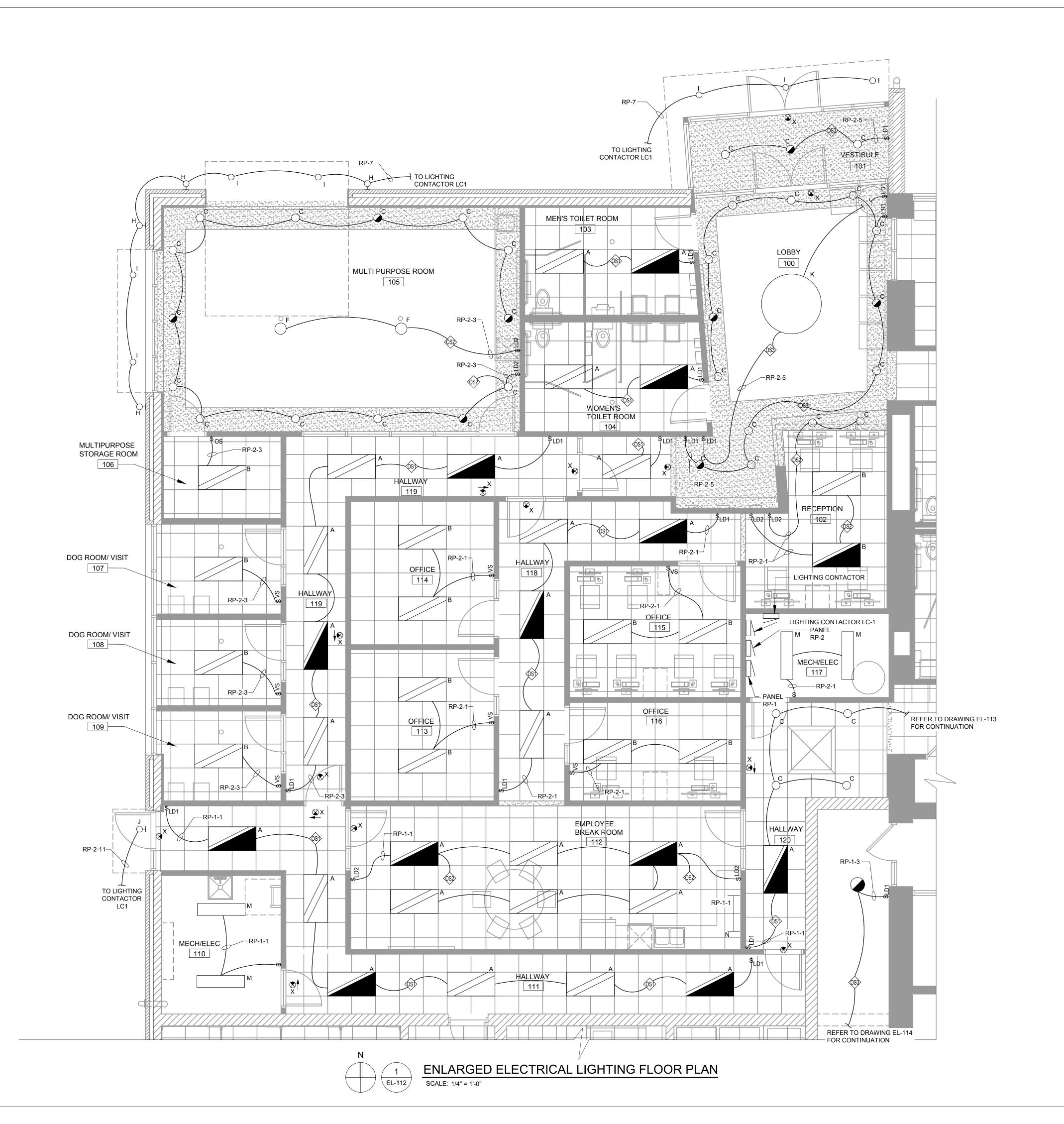
City of Taylor Animal Shelter Remodel & Expansion



OWNER REVIEW PERMIT REVIEW

OVERALL ELECTRICAL LIGHTING FLOOR PLAN

Project Number: 22712.A



- 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 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.

#### NOTI

- 1. 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.
- 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 NPODM DX WH OR EQUIVALENT.
- FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR CONTROL, NLIGHT MODEL NCM PDT 10 AR RJB OR EQUIVALENT.
- 7. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR WITH DAYLIGHTING CONTROL, NLIGHT MODEL NCM PDT 10 ADCX AR RJB OR EQUIVALENT.

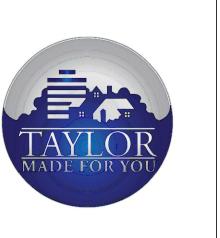
#### SYMBOLS

- \$<sub>OS</sub> WALL MOUNTED OCCUPANCY SENSOR REFER TO NOTE 1
- \$<sub>VS</sub> WALL MOUNTED VACANCY SENSOR REFER TO NOTE 2
- \$ SINGLE POLE SWITCH
- \$<sub>LD1</sub> WALL MOUNTED ON/OFF SWITCH REFER TO NOTE 3
- ©SD CEILING MOUNTED OCCUPANCY SENSOR REFER TO NOTE 4
- $\$_{\mathsf{LD2}}$  WALL MOUNTED ON/OFF SWITCH WITH DIMMING REFER TO NOTE 5
- ©SD CEILING MOUNTED OCCUPANCY SENSOR REFER TO NOTE 6
- CEILING MOUNTED OCCUPANCY SENSOR WITH PHOTOCELL REFER TO NOTE 7



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City of

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Project:

City of Taylor Animal Shelter Remodel & Expansion

25555 Northline Rd. Taylor, MI 48180

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Drawn: Ji
Checked: Li
Approved: S

Sheet Title:

ENLARGED ELECTRICAL LIGHTING FLOOR PLAN

Project Number: 22712.A

Sheet Number: EL-112

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- 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.
- 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 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.
- 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-601 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.
- ☐ SHADING INDICATES AREAS OF EXISTING DEVICES, EQUIPMENT, AND FEEDERS THAT ARE  $^{ extstyle eta}$  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, 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 NPODM 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**

- \$<sub>OS</sub> WALL MOUNTED OCCUPANCY SENSOR REFER TO NOTE 1
- \$<sub>VS</sub> WALL MOUNTED VACANCY SENSOR REFER TO NOTE 2
- \$ SINGLE POLE SWITCH
- \$LD1 WALL MOUNTED ON/OFF SWITCH REFER TO NOTE 3
- (S) CEILING MOUNTED OCCUPANCY SENSOR REFER TO NOTE 4
- \$ D2 WALL MOUNTED ON/OFF SWITCH WITH DIMMING -REFER TO NOTE 5
- (\$) CEILING MOUNTED OCCUPANCY SENSOR REFER TO NOTE 6
- \$<sub>OSH</sub> WALL MOUNTED OCCUPANCY SENSOR HIGH HUMIDITY REFER TO NOTE 7
- (\$) CEILING MOUNTED OCCUPANCY SENSOR WITH PHOTOCELL -REFER TO NOTE 9



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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

Seal:

KELLEY License No.

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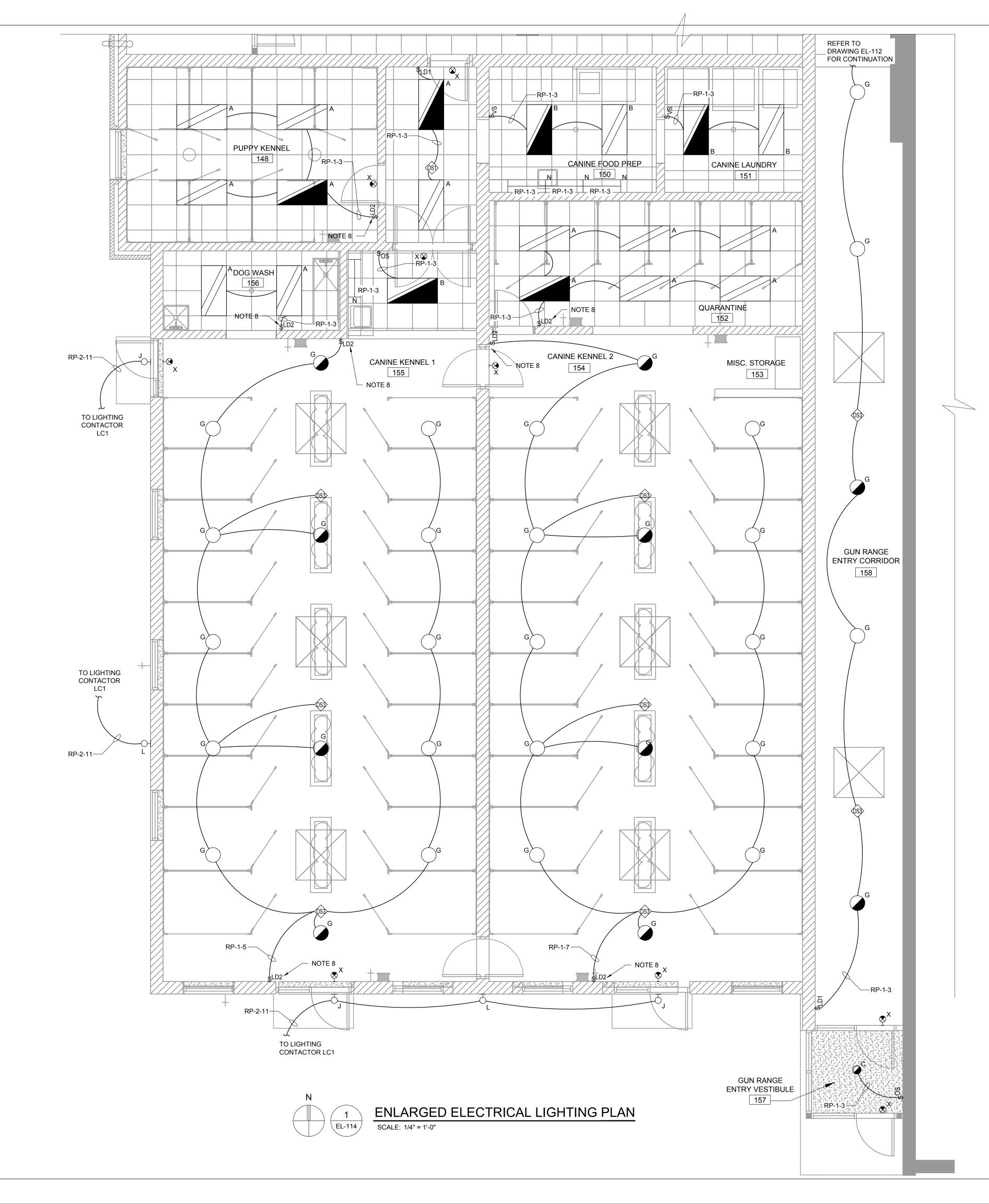
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Sheet Title:

ENLARGED ELECTRICAL LIGHTING PLAN

22712.A Project Number:

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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.

#### NOTE

- 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 NPODM DX WH OR EQUIVALENT.
- FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR WITH DAYLIGHTING CONTROL, NLIGHT MODEL NCM PDT 10 ADCX AR RJB OR
- 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

#### SYMBOLS

EQUIVALENT.

- \$<sub>OS</sub> WALL MOUNTED OCCUPANCY SENSOR REFER TO NOTE 1
- \$<sub>VS</sub> WALL MOUNTED VACANCY SENSOR REFER TO NOTE 2
- \$ SINGLE POLE SWITCH
- \$LD1 WALL MOUNTED ON/OFF SWITCH REFER TO NOTE 3
- ©S CEILING MOUNTED OCCUPANCY SENSOR REFER TO NOTE 4
- \$LD2 WALL MOUNTED ON/OFF SWITCH WITH DIMMING REFER TO NOTES
- OSP CEILING MOUNTED OCCUPANCY SENSOR REFER TO NOTE 6
- 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

aylor, IVII 401



Date	Issued For
10-18-2023	50% COMPLETE REVIEW
12-21-2023	OWNER REVIEW
01-17-2024	PERMIT REVIEW

Orawn:	JDM
Checked:	LKR
Approved:	SRK

Sheet Title:

ENLARGED ELECTRICAL LIGHTING PLAN

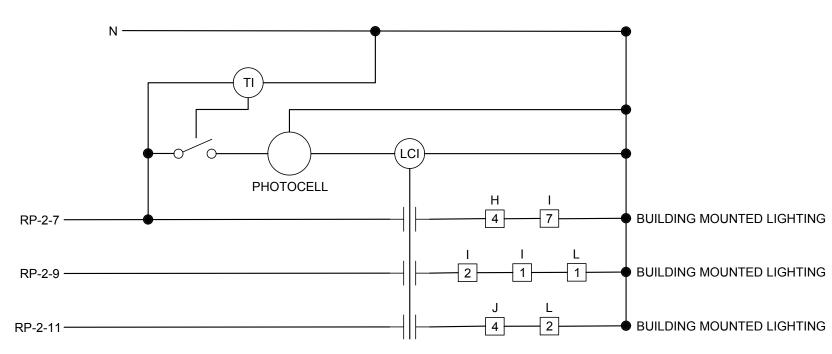
Project Number: 22712.A

Sheet Number: EL-114

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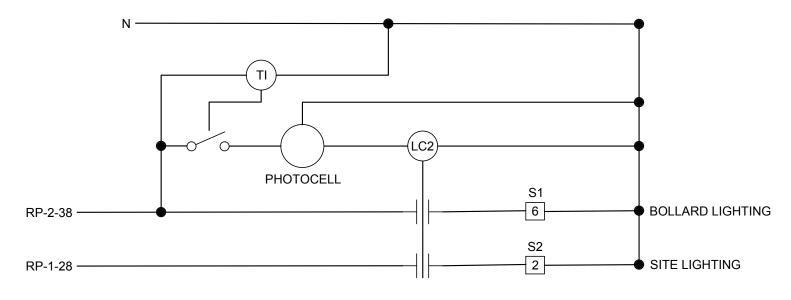
			FIXTU	IRE SCH	IEDULE	
SYMBOL	TYPE	SIZE AND MOUNTING	VOLTAGE, (INPUT WATTAGE)	LAMPS AND LUMENS	MANUFACTURER / CATALOG NUMBER	REMARKS
	Α	2' X 4' (NOMINAL) RECESSED TROFFER	120V (24.1W)	4000K WHITE LIGHT EMITTING DIODES - 3,269 LUMENS (NOMINAL)	LITHONIA "STACK" SERIES  - STAK 2X4 3000 LM 80CRI 40K COL MIN10 ZT MVOLT	NOTE 8
	В	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
0	С	6" DIA (NOMINAL) DOWNLIGHT	120V (10.44W)	4000K WHITE LIGHT EMITTING DIODES - 952 LUMENS (NOMINAL)	LITHONIA "LDN6" SERIES  - LDN6 40/10 LO6AR LSS TRW MVOLT GZ10	NOTE 9
0	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	-
	Е	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
2	Н	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
0	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	-
2	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
	К	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
9	L	WALLPACK	120V (88W)	4000K WHITE LIGHT EMITTING DIODES - 12,277 LUMENS (NOMINAL)	LITHONIA "WEDGE" SERIES  - WEDGE 3 P4 40K 80CRI RFT MVOLT SRM EI5WH 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	-
⊗	Х	EXIT LIGHT - CEILING OR WALL MOUNT	120V (4.3W)	RED LIGHT EMITTING DIODESS	LITHONIA "LHQM" SERIES - LHQM LED HORO	NOTE 6,7
0	<b>S</b> 1	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
Image: control of the	S2	SITE POLE MOUNTED LIGHT FIXTURES	120V (69W)	4000K WHITE LIGHT EMITTING DIODES - 8,988 LUMENS (NOMINAL)	LITHONIA "DSXO" SERIES  - DSX0 P3 40K 70CRI TFTM MVOLT SPA DDBXD	NOTE 12



#### LIGHTING CONTACTOR LC1 (NOTE C)

1. 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)

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**

- A. REFER TO ELECTRICAL SPECIFICATIONS ON DRAWING E-1 FOR ADDITIONAL INFORMATION.
- B. 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.
- C. 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

- 1. REFER TO MOUNTING HEIGHTS ON LIGHTING PLANS FOR ADDITIONAL INFORMATION.
- 2. MOUNT BOTTOM OF FIXTURE 6'-0" ABOVE FINISHED FLOOR.
- 3. MOUNT BOTTOM OF FIXTURE 1'-0" ABOVE MANDOOR FRAME.
- 4. MOUNT BOTTOM OF FIXTURE 10'-0" ABOVE FINISHED FLOOR.
- 5. MOUNT BOTTOM OF FIXTURE 16'-0" ABOVE FINISHED FLOOR.
- 6. FOR WALL MOUNTED FIXTURES, MOUNT BOTTOM OF FIXTURE 8'-0" ABOVE FINISHED FLOOR.
- 7. FIXTURE SHALL MEET NFPA LIFE SAFETY CODE 101 AND BE LISTED UNDER UL924.
- 8. FOR FIXTURES WITH HALF-SHADING ON FLOOR PLAN, FURNISH AND INSTALL FIXTURE WITH E15WLCP BATTERY PACK.
- 9. FOR FIXTURES WITH HALF -SHADING ON FLOOR PLAN, FURNISH AND INSTALL FIXTURE WITH ELSD BATTERY PACK.
- 10. FOR FIXTURES WITH HALF-SHADING ON FLOOR PLAN, FURNISH AND INSTALL FIXTURE WITH
- 11. VERIFY MOUNTING REQUIREMENTS REQUIRED IN FIELD PRIOR TO ORDERING FIXTURE.
- 12. FURNISH AND INSTALL 15'-0" LIGHT POLE, LITHONIA LIGHTING SSA 15 4C DDBXD, 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.

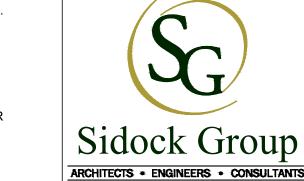
#### LIGHTING CONTROL SEQUENCE OF OPERATION

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

- 1. 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
- a. CONTROLLED BY: WALL MOUNTED VACANCY SENSOR WITH DIMMING CONTROL NEAR
- DOOR OF EACH ROOM.

E10WH BATTERY PACK.

- b. CIRCUIT CAPABILITY: SINGLE. TIME DELAY: SET FOR 10-MINUTE DELAY
- d. SYSTEM BRANCH: NORMAL AND EMERGENCY e. AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- 2. MECH/ELEC 110, MECH/ELEC 117, MECHANICAL ROOM 131
- a. 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
- d. SYSTEM BRANCH: NORMAL AND EMERGENCY e. AUTOMATIC SWITCHING MODE: NONE
- 3. EMPLOYEE BREAK ROOM 112, INTAKE CHECK IN/GUEST VET 132 a. 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. b. CIRCUIT CAPABILITY: SINGLE.
- TIME DELAY: SET FOR 10-MINUTE DELAY
- d. SYSTEM BRANCH: NORMAL AND EMERGENCY e. AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- 4. 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
- a. 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.
- b. CIRCUIT CAPABILITY: SINGLE. TIME DELAY: SET FOR 10-MINUTE DELAY
- SYSTEM BRANCH: NORMAL AND EMERGENCY
- e. AUTOMATIC SWITCHING MODE: AUTOMATIC ON; MANUAL OR AUTOMATIC OFF.
- a. 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
- b. CIRCUIT CAPABILITY: SINGLE.
- TIME DELAY: SET FOR 10-MINUTE DELAY d. SYSTEM BRANCH: NORMAL AND EMERGENCY
- e. AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- 6. LOBBY 100, VESTIBULE 101, GUN RANGE ENTRY CORRIDOR 152 a. 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.
- b. CIRCUIT CAPABILITY: SINGLE.
- TIME DELAY: SET FOR 10-MINUTE DELAY SYSTEM BRANCH: NORMAL AND EMERGENCY
- e. AUTOMATIC SWITCHING MODE: AUTOMATIC ON; MANUAL OR AUTOMATIC OFF.
- 7. FELINE KENNEL 128, CANINE KENNEL 1 149, CANINE KENNEL 2 148 a. 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.
- b. CIRCUIT CAPABILITY: SINGLE. TIME DELAY: SET FOR 10-MINUTE DELAY
- d. SYSTEM BRANCH: NORMAL AND EMERGENCY e. AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- 8. MULTIPURPOSE STORAGE ROOM 106, SHOWER 123, GUN RANCGE ENTRY VESTIBULE 151 a. CONTROLLED BY: WALL MOUNTED OCCUPANCY SENSOR NEAR DOOR OF EACH ROOM. CIRCUIT CAPABILITY: SINGLE.
  - TIME DELAY: SET FOR 10-MINUTE DELAY
- d. SYSTEM BRANCH: NORMAL AND EMERGENCY e. AUTOMATIC SWITCHING MODE: AUTOMATIC ON; MANUAL OR AUTOMATIC OFF.
- 9. DOG HOLD 140, DOG RECOVERY 141, DOG WASH 150, PUPPY KENNEL 144, QUARANTINE 147 a. 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.
- b. CIRCUIT CAPABILITY: SINGLE.
- TIME DELAY: SET FOR 10-MINUTE DELAY d. SYSTEM BRANCH: NORMAL AND EMERGENCY
- e. AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.



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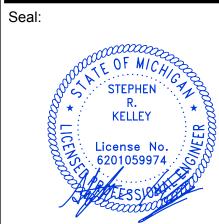
City of Taylor 23555 Goddard Rd. Taylor, MI 48180

Project:

City of Taylor **Animal Shelter** Remodel & Expansion

25555 Northline Rd.

Taylor, MI 48180



Issued For 10-18-2023 50% COMPLETE REVIEW OWNER REVIEW 12-21-2023 PERMIT REVIEW 01-17-2024

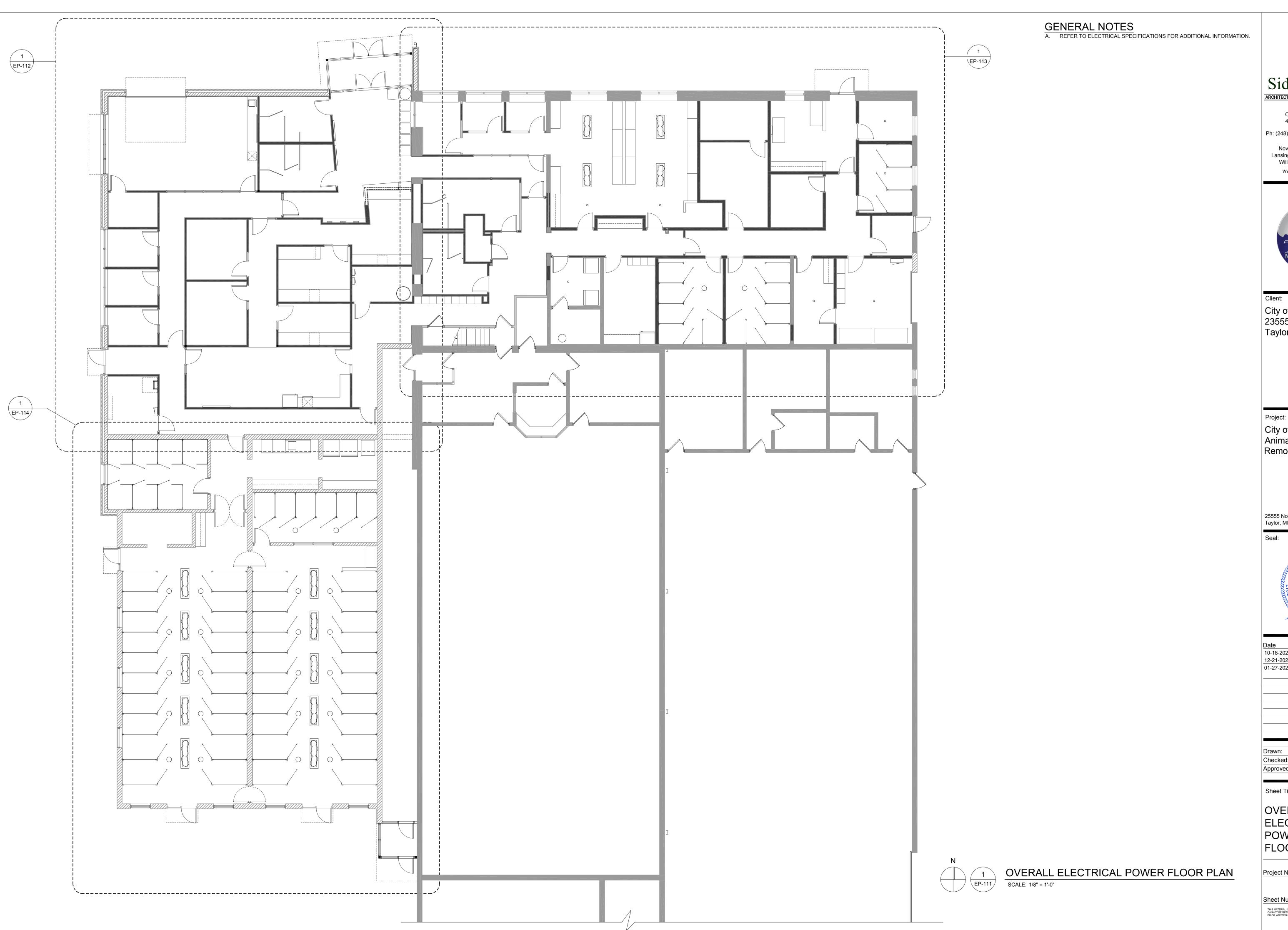
Drawn: Checked: LKR

Sheet Title:

Approved:

ELECTRICAL LIGHTING FIXTURE SCHEDULE

22712.A Project Number:



ARCHITECTS • ENGINEERS • CONSULTANTS

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City of Taylor Animal Shelter Remodel & Expansion

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Sheet Title:

OVERALL ELECTRICAL POWER FLOOR PLAN

Project Number: 22712.A



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. 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.

# ARCHITECTS • ENGINEERS • CONSULTANTS

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City of Taylor 23555 Goddard Rd. Taylor, MI 48180

City of Taylor Animal Shelter Remodel & Expansion

#### 25555 Northline Rd.

₱ 20A DUPLEX RECEPTACLE

© 20A GFCI DUPLEX RECEPTACLE

□ 20A GFCI OVERCOUNTER DUPLEX RECEPTACLE

□ 20A OVERCOUNTER DUPLEX RECEPTACLE

SYMBOLS

WP 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

Taylor, MI 48180

Seal:



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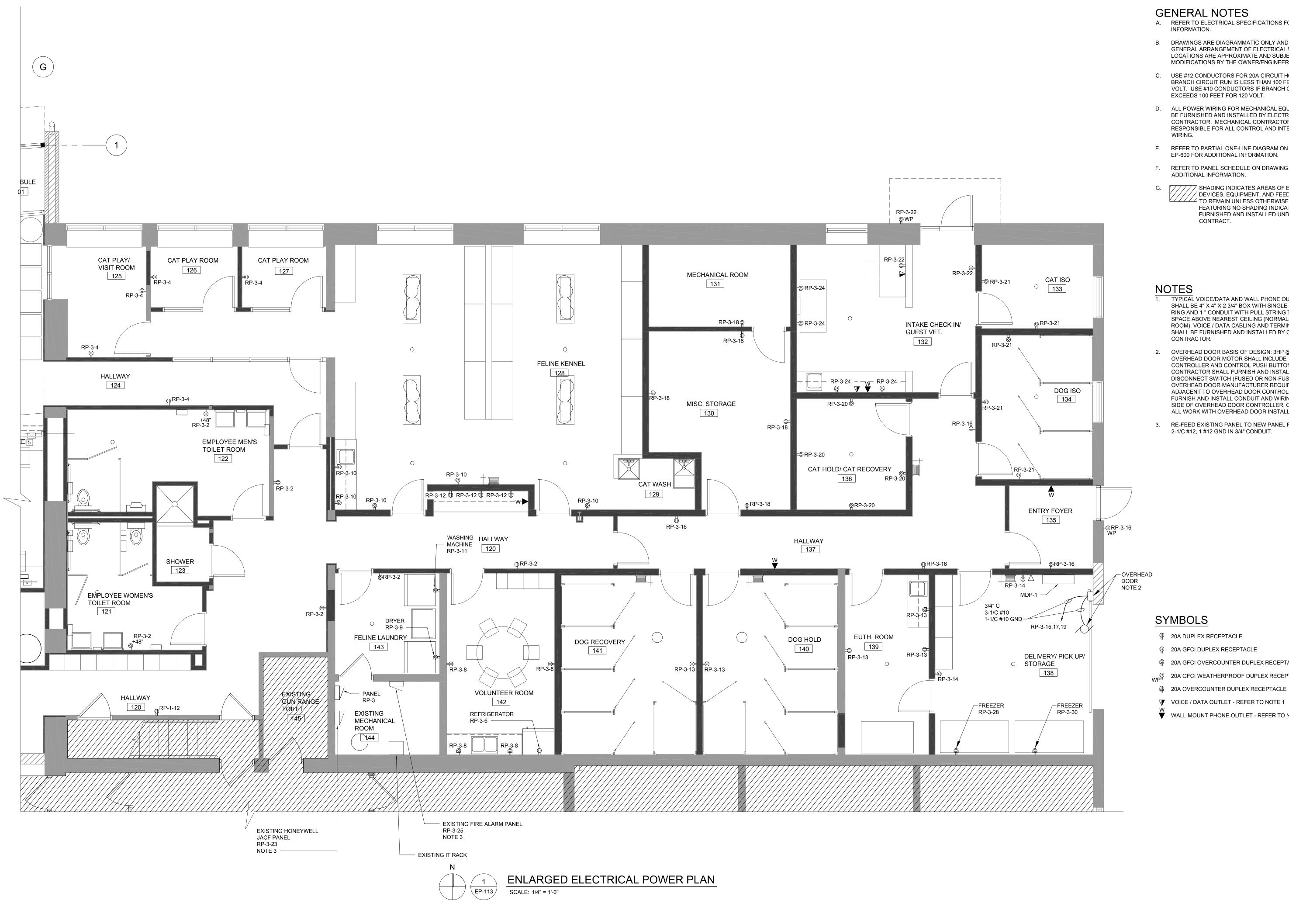
Drawn:	JDM
Checked:	LMR
Approved:	SRK

Sheet Title:

ENLARGED ELECTRICAL POWER FLOOR PLAN

22712.A Project Number:

Sheet Number: EP-112



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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
- 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.
- ///// 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.
- 1. 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
- 2. 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.
- 3. RE-FEED EXISTING PANEL TO NEW PANEL RP-3 WITH 2-1/C #12, 1 #12 GND IN 3/4" CONDUIT.

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

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Project:

City of Taylor Animal Shelter Remodel & Expansion

25555 Northline Rd. Taylor, MI 48180



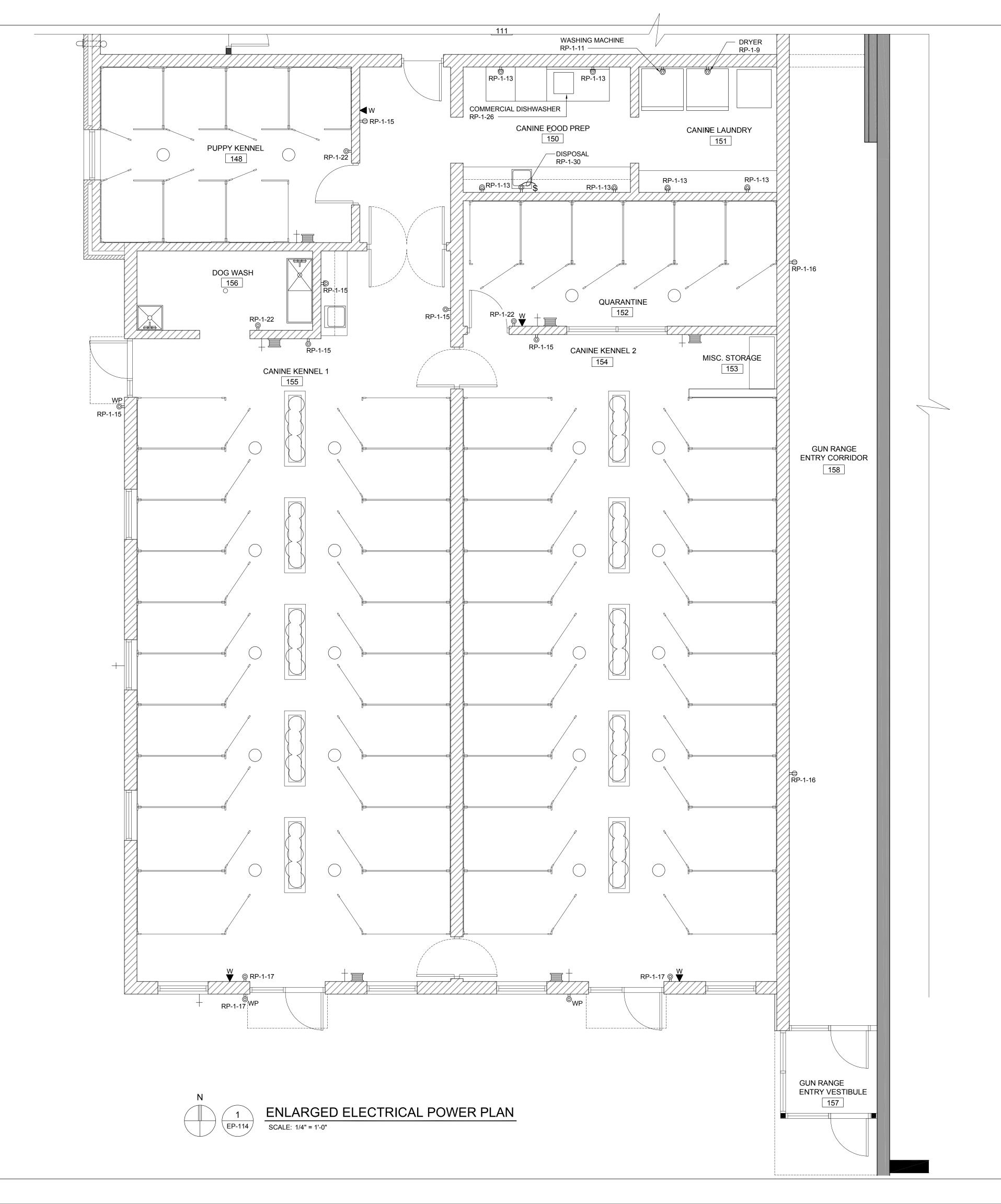
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Checked: Approved:

Sheet Title: ENLARGED ELECTRICAL POWER PLAN

22712.A Project Number:

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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. 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**

SYMBOLS

20A GFCI DUPLEX RECEPTACLE

□ 20A GFCI OVERCOUNTER DUPLEX RECEPTACLE

WP 20A GFCI WEATHERPROOF DUPLEX RECEPTACLE

W WALL MOUNT PHONE OUTLET - REFER TO NOTE 1

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.



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JDM
LMF
SRK

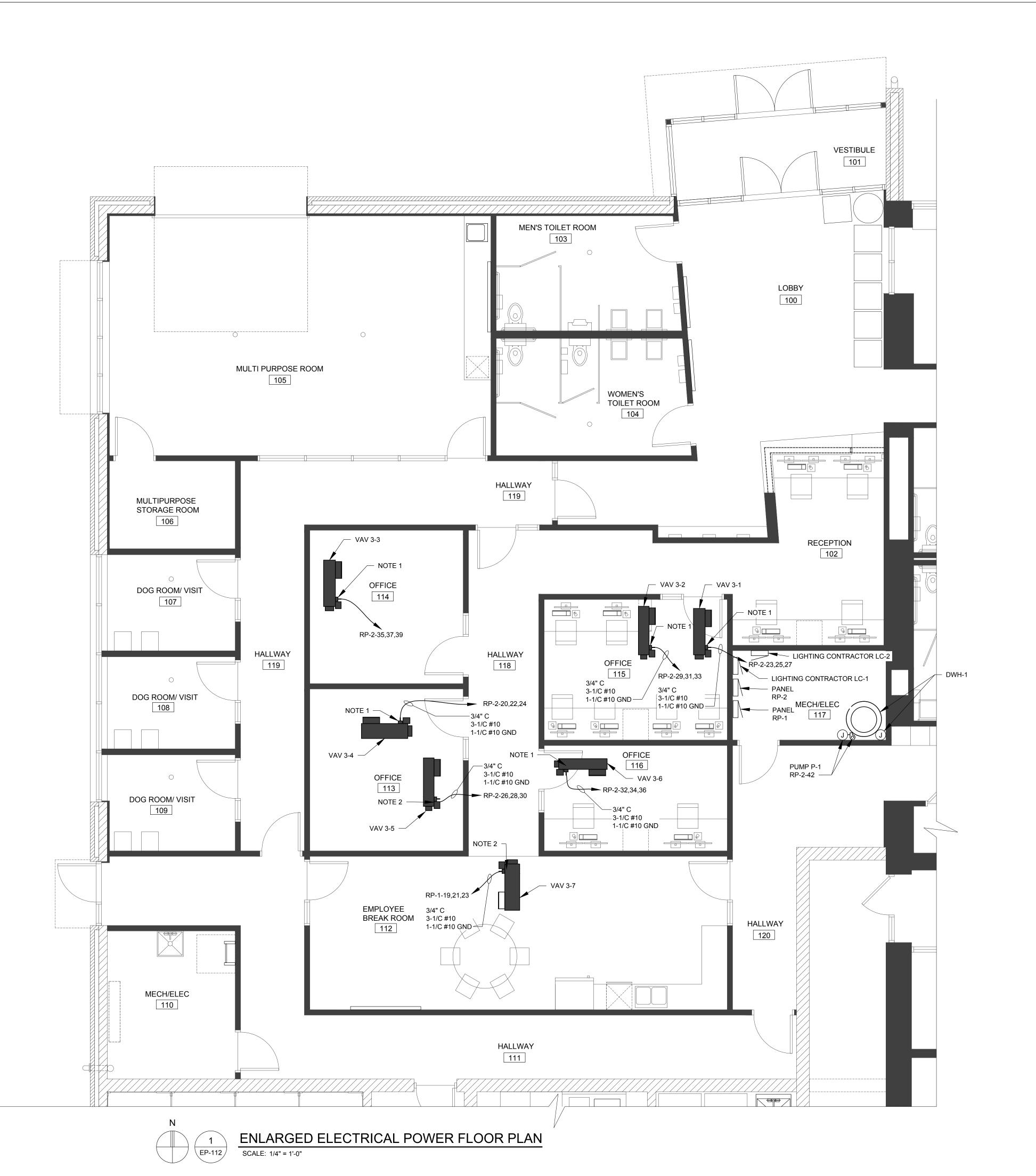
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ENLARGED ELECTRICAL POWER PLAN

Project Number: 22712.A

Sheet Number: EP-114

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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. DISCONNECT SWITCH SUPPLIED WITH UNIT.



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Sheet Title:

ENLARGED ELECTRICAL/ MECH. POWER FLOOR PLAN

Project Number: 22712.A

Sheet Number: EP-212

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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. 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.

1. DISCONNECT SWITCH SUPPLIED WITH UNIT.

 FURNISH AND INSTALL A SQUARE D CLASS 2510 TYPE KG1A MOTOR RATED MANUAL SWITCH WITH A NEMA 12 ENCLOSURE FOR UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.



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ELECTRICAL/

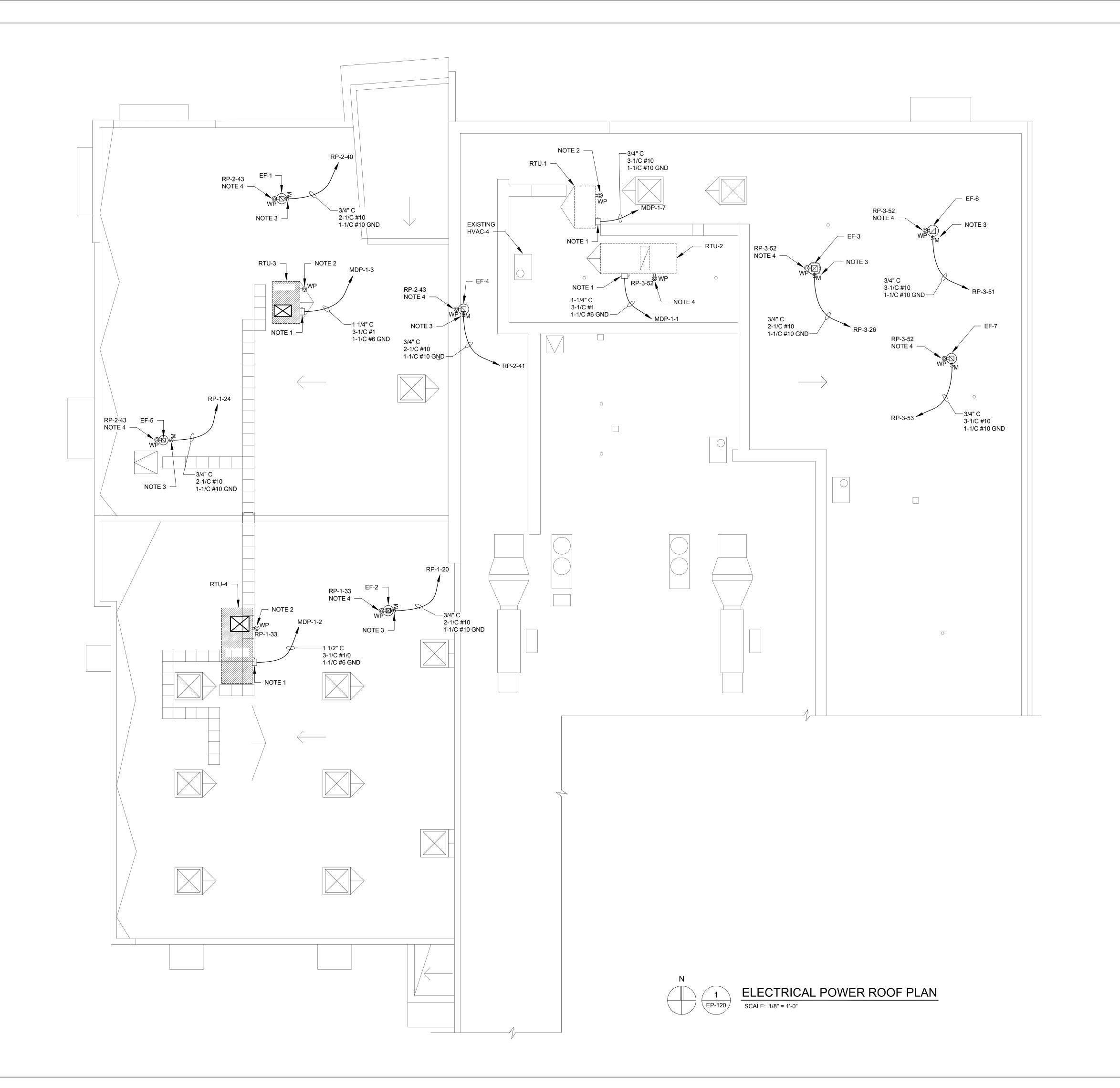
MECHANICAL

POWER PLAN

Project Number: 22712.A

Sheet Number: EP-213

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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. 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.



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#### SYMBOLS

\$<sub>M</sub> MOTOR RATED TOGGLE SWITCH

□ DISCONNECT SWITCH

#### | |

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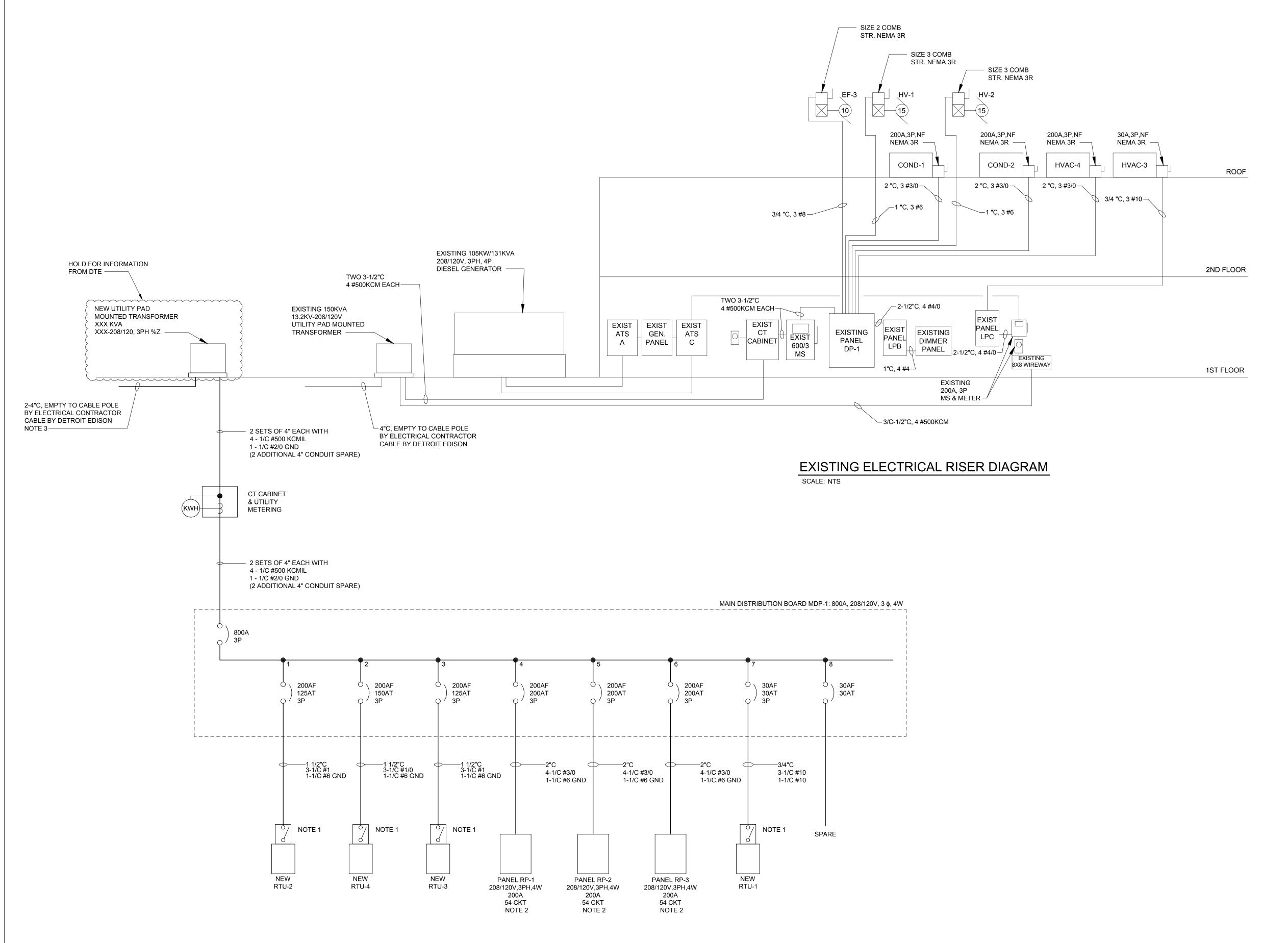
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ELECTRICAL POWER ROOF PLAN

Project Number: 22712.A

Sheet Number: EP-220

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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.
- FURNISH AND INSTALL A 200A MCB, 208/120V, 3PH, 4W PANELBOARD, SQUARE D INTERIOR NQ454L2C WITH BOX (NEMA 1) CAT #MH50 AND NC50S FRONT; PK27GTACU EQUIPMENT GROUND BAR AND NQN2CU NEUTRAL BAR OR EQUIVALENT BY EATON.
- CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL SERVICE UTILITY PROVIDER FOR EXACT LOCATION OF POINT OF SERVICE TIE IN.

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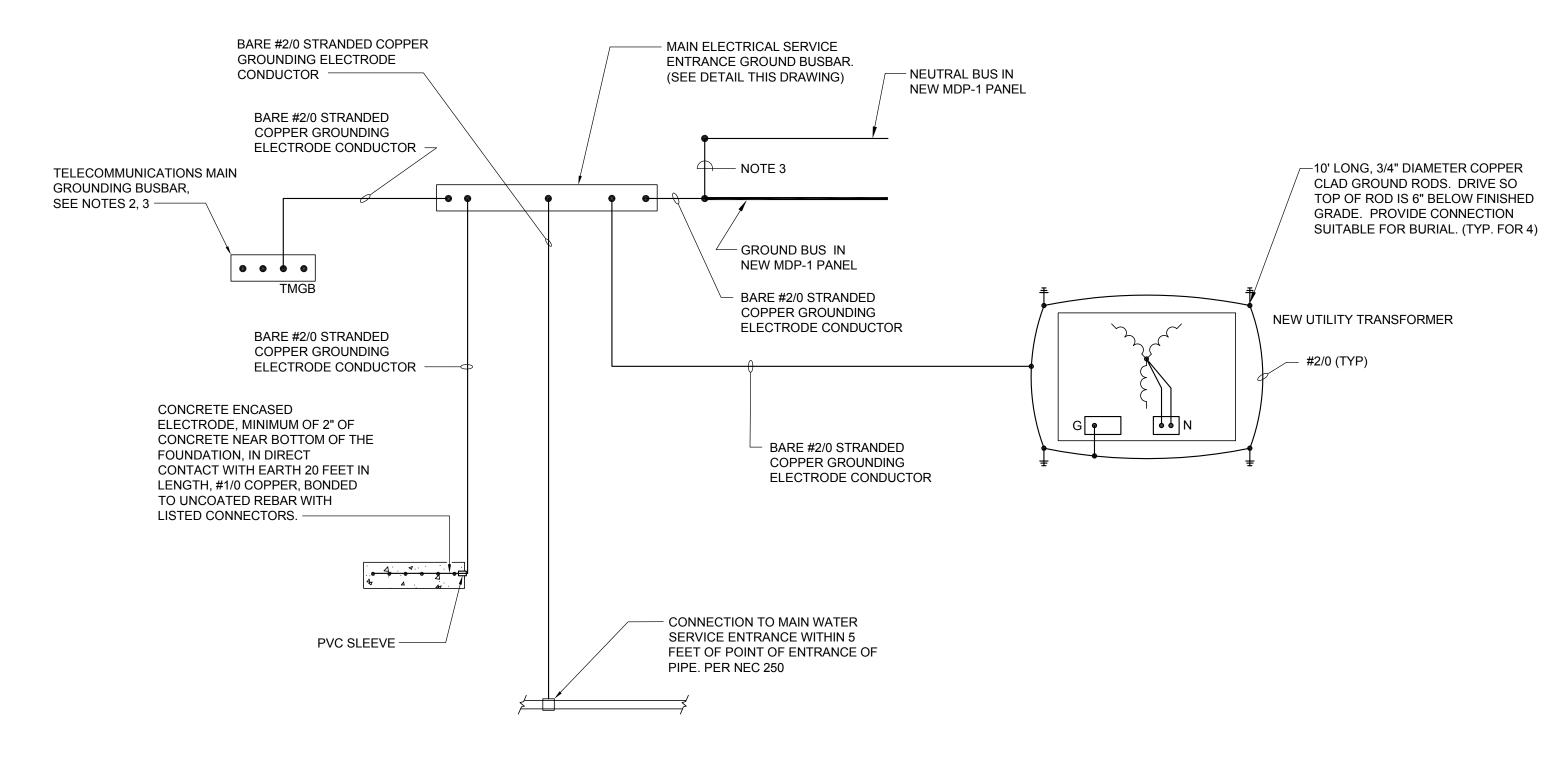
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Sheet Title:

ELECTRICAL ONE-LINE DIAGRAM

Project Number: 22712.A

Sheet Number: EP-600



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

– 2 OR 3 HOLE

CONFIGURATION.

WALL MOUNTING

BRACKET -

- INSULATORS

COPPER GROUND BAR,

1/4" x 4" x 20" HOLE CENTERS TO MATCH NEMA DOUBLE LUG

CONFIGURATION.

– 5/8-11 x 1"

5/8" LOCKWASHERS ——

H.H.C.S. BOLTS-

#### ELECTRICAL SERVICE GROUNDING DETAIL WITH GROUNDING BUSBARS

#### SCALE: N.T.S.

#### NOTES:

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

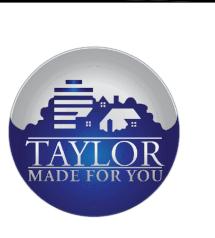
#### **GENERAL NOTES:**

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. REFER TO ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- C. 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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ecked:	LMR
proved:	SRK

Sheet Title:

ELECTRICAL GROUNDING DETAILS

Project Number: 22712.A

Sheet Number: EP-601

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PANEL DESIGNATION PANEL LOCATION FED FROM FEEDER SIZE			BUS OUN D Moun	SING: BUS: TING:	: 800A : 800A : STAN : SURF.	DARD ACE	ER		P-P VOLTAGE: 208 P-N VOLTAGE: 120 PHASE: 3 WIRE: 4										
R emarks	LIGHT	RECEPT	CONT			OC PROT	ОС	ССТ	øø	ø c	ст	ОС	OC PROT	INTER.	nonC		RECEPT	LIGHT	Remarks
	LOAD	LOAD	LOAD		USE		PROT FRAME		AB	С	PR	OT FRAME		USE	LOAD	LOAD	LOAD	LOAD	
RTU-2				13931		125A	200A	,	X	Н.	2	200A	150A		15612				RTU-4
K10-2				13931 13931		123A	200A	'	^	V .	_	200A	130A		15612 15612				K10-4
				13931					X	^				1840	13012	2084	3060	1082	
RTU-3				13931		125A	200A	3	X		4	200A	200A	4400	0	2084	3060	954	PANEL RP-1
Kilo S				13931		12071	20071	Ĭ	1	X	•	20071	20071	5340	25	2084	1620	602	1,74122 11.1
	827	3060	8543	0	500				X					3421	13086	500	4860	603	
PANEL RP-2	605	3240	8543	37	500	200A	200A	5	X		6	200A	200A	4661	11286	1000	2160	500	PANEL RP-3
	538	2700	8543	30	550					X				0	0	0	0	0	
				2642					X										
RTU-1				2642		30A	30A	7	X		8	30A	30A						SPARE
				2642						X									
		CONNEC	TED LOAI	)					DEM/	AND						DEMAN	D LOAD		
LOAD DESCRIPTION	ØA	ØB	ØC	TOTAL					FACI						ØA	ØB	ØC	TOTAL	†
LIGHTING LOAD (VOLT-AMPS)	2512	2059	1140	5710	i				1.0	00					2512	2059	1140	5710	
180VA RECEPTACLE LOAD (VOLT-AMPS)	10980	8460	4320	23760						T 10kV/	4)				4621	3561	1818	10000	RECEPTACLE DEMAND FACTOR PER ARTICLE
	AMOU	NT OVER	10kVA	13760				0.5	0 (>	10kVA)					3179	2450	1251	6880	220.44 OF THE NATIONAL ELECTRICAL CODE.
CONTINUOUS LOAD (VOLT-AMPS)	11127	11627	10627	33381			1.25									14534	13284	41726	
NON-CONTINUOUS LOAD (VOLT-AMPS)	60602	57439	46171	164212			1.00 60602 57439 46171 164212												
INTERMITENT USE LOAD (VOLT-AMPS)	5761	9561	5890	21212			1.00 5761 9561 5890 21212									UB 4 NIEL 44BB 4"			
TOTAL LOAD (kVA)	90.98	89.15	68.15				125% O								90.58	89.60	69.55	249.74	"PANEL MDP-1"
TOTAL AMPACITY (AMPS)	757.6	742.3	567.5	689.1			(<=10kV	•							754.3	746.1	579.2	693.2	
MINIMUM FEEDER SIZING (AMPS)	8.808	788.4	600.9	732.8			< P	ER NE	C AR	TICLE 2	215.2	>			798.1	788.1	613.0	733.1	

PANEL DESIGNATION PANEL LOCATION FED FROM FEEDER SIZE	: REFER TO : REFER TO : REFER TO	O PLAN D O ONE-LII O ONE-LII			BU ROUN Moui Ne	SSING D BUS NTING UTRAL	: 22 : ST : SU : 10	25A TANDA URFAC 00%	E		P-P VOLTAGE: 208 P-N VOLTAGE: 120 PHASE: 3 WIRE: 4						
Remarks	LIGHT	RECEPT LOAD	CONT LOAD	nonC LOAD	INTER. USE	OC PROT	ССТ	Ø Ø A B	Ø	ССТ	OC PROT	INTER. USE	nonC LOAD	CONT	RECEPT LOAD	LIGHT LOAD	R emarks
LIGHTING (110,111,112,120)	480					20A	1	X		2	20A		800				REFRIGERATOR (112)
LIGHTING (148,149,150,151,152,155,156)	816					20A	3	Х	(	4	20A	1800					DISHWASHER (112)
LIGHTING (155)	602					20A	5		Х	6	20A	1000					MICROWAVE (112)
LIGHTING (154)	602					20A	7	X		8	20A				720		RECEPTACLES (112)
DRYER (151)					2100	20A	9	X	(	10	20A				540		RECEPTACLES (112)
WASHING MACHINE (151)					1500	20A	11		X	12	20A				900		RECEPTACLES (111,120)
RECEPTACLES (150,151)		1080				20A	13	X		14	20A				720		RECEPTACLE (110,111, EXTERIOR)
RECEPTACLES (154,155,EXTERIOR)		1080				20A	15	X		16	20A				540		RECEPTACLES (158)
RECEPTACLES (154,155,EXTERIOR)		720				20A	17		X	18	20A	500					WALL TV (112)
			2084				19	X		20	20A		25				EXHAUST FAN EF-2
VAV 3-7			2084			30A	21	X	(	22	20A				540		RECEPTACLES (148,152,156)
			2084				23		Х	24	20A		25				EXHAUST FAN EF-5
TABLET RECEPTS (100)		540				20A	25	X		26	20A	1840					COMMERCIAL DISHWASHER (145)
TELEVISION (114)					500	20A	27	X		28	20A					138	SITE LIGHTING
TELEVISION (115)					500	20A	29		Х	30	25A	1840					DISPOSAL (150)
DWH-1 (117)				575		20A	31	X		32	20A						SPARE
ROOF TOP UNIT RECEPTACLES		360				20A	33	X		34	20A						SPARE
SPARE						20A	35		X	36	20A						SPARE
SPARE						20A	37	X		38	20A						SPARE
SPARE						20A	39	X		40	20A						SPARE
SPARE						20A	41		X	42	20A						SPARE
SPARE						20A	43	X		44	20A						SPARE
SPARE						20A	45	X		46	20A						SPARE
SPARE						20A	47		X	48	20A						SPARE
SPARE						20A	49	X		50	20A						SPARE
SPARE						20A	51	X	(	52	20A						SPARE
SPARE						20A	53		X	54	20A						SPARE
		CONNEC	TED LOA	D				DEM	ANE	)				DEMAN	D LOAD		
LOAD DESCRIPTION	ØA	ØB	ØC	TOTAL	1			FAC					ØA	ØB	ØC	TOTAL	1
LIGHTING LOAD (VOLT-AMPS)	1082	954	602	2638				1.0					1082	954	602	2638	=
180VA RECEPTACLE LOAD (VOLT-AMPS)	3060	3060	1620	7740	-		1.00			OkVA)			3060	3060	1620		RECEPTACLE DEMAND FACTOR PER ARTICLE
		NT OVER		0	-	1.00 (FIRST 10kVA) 0.50 (> 10kVA)							0	0	0	0	220.44 OF THE NATIONAL ELECTRICAL CODE.
CONTINUOUS LOAD (VOLT-AMPS)	2084	2084	2084	6252		1.25							2605	2605	2605	7815	
NON-CONTINUOUS LOAD (VOLT-AMPS)	1400	0	25	1425	1	1.00							1400	0	25	1425	1
INTERMITTENT USE LOAD (VOLT-AMPS)	1840	4400	5340	11580	-	1.00							1840	4400	5340	11580	1
TOTAL LOAD (kVA)	9.47	10.50	9.67	29.64		125% OF LIGHT, CONT AND RECEPT							9.99	11.02	10.19	31.20	"PANEL RP-1"
TOTAL AMPACITY (AMPS)	78.8	87.4	80.5	82.3		(<=10kVA) LOAD PLUS OTHER LOAD							83.2	91.8	84.9	86.6	FAINEL KF-I
MINIMUM FEEDER SIZING (AMPS)	91.8	100.1	89.5	93.8	-	(=10kVA) LOAD PLOS OTHER LOAD < PER NEC ARTICLE 215.2>							97.2	105.5	94.9	99.2	1
	71.0	100.1	07.0	70.0		PER NEC ARTICLE 215.2>							11.2	100.0	/ 1./	11.2	

PANEL DESIGNATION			MAIN	: 20	OOA BR	EAKER		P-P VOLTAGE: 208											
PANEL LOCATION			BU	SSING	: 22	25A			P-N VOLTAGE: 120										
FED FROM	A: REFER TO	O ONE-LII	NE DIAGE	MAS		G	ROUN	D BUS	: 5	TANDA	RD		PHASE: 3						
FEEDER SIZ	E: REFER TO	O ONE-LII	NE DIAGE	MAS						URFAC	E		WIRE: 4						
							ΝE	UTRAL	: 10	00%									
Remarks	LIGHT	RECEPT	CONT	nonC LOAD	INTER. USE	OC PROT	сст	Ø Ø A B	Ø	ССТ	OC PROT	INTER. USE	nonC LOAD	CONT	RECEPT	LIGHT	Remarks		
LIGHTING (102,113,114,115,116,117)	482					20A	1	X	T	2	20A				720		RECEPTACLES (106,107,108,109)		
LIGHTING (105,106,107,108,109,119)	480					20A	3	X	1	4	20A				720		RECEPTACLES (119)		
LIGHTING (100,101,103,104)	302					20A	5		X	( 6	20A				720		RECEPTACLES (114)		
EXTERIOR LIGHTING	314					20A	7	X	T	8	20A				720		RECEPTACLES (113)		
EXTERIOR LIGHTING	124					20A	9	X		10	20A				720		RECEPTACLES (116)		
EXTERIOR LIGHTING	236					20A	11		X	( 12	20A				900		RECEPTACLES (115,117)		
RECEPTACLES (118)		540				20A	13	X		14	20A				540		RECEPTACLES (115)		
RECEPTACLES (102)		900				20A	15	X		16	20A				900		RECEPTACLES (105)		
TELEVISION (105)					500	20A	17		X	( 18	20A				1080		RECEPTACLES (100,101,103,104,EXTERIOR)		
TELEVISION (100)					500	20A	19	X		20				2084					
television (100)					500	20A	21	X		22	20A			2084			VAV 3-4		
			1458				23		X	( 24				2084					
VAV 3-1			1458			15A	25	X		26				1042					
			1458			†	27	X		28	15A			1042			VAV 3-5		
			1042				29		X	( 30				1042					
VAV 3-2			1042			15A	31	X	1	32				1042					
			1042			-	33	X		34	15A			1042			VAV 3-6		
			1875				35		X	( 36				1042					
VAV 3-3			1875			20A	37	X		38	20A					30	SITE BOLLARD LIGHTING		
			1875			1	39	X		40	20A		37				EXHUAST FAN EF-1		
EXHAUST FAN EF-4				30		20A	41		X	( 42	20A	50					PUMP P-1		
ROOF TOP UNIT RECEPTACLES		540				20A	43	X		44	20A						SPARE		
SPARE						20A	45	X		46	20A						SPARE		
SPARE						20A	47		X	( 48	20A						SPARE		
SPARE						20A	49	X		50	20A						SPARE		
SPARE						20A	51	X		52	20A						SPARE		
SPARE						20A	53		X	54	20A						SPARE		
	1	CONNEC	TED LOAI	<u> </u>				DEMA	ΔΝΙ	D				DEMAN	ID LOAD	•	Ī		
LOAD DESCRIPTION	ØA	ØB	ØC	TOTAL	1			FAC					ØA	ØB	ØC	TOTAL	-		
LIGHTING LOAD (VOLT-AMPS)	827	605	538	1969				1.0					827	605	538	1969			
180VA RECEPTACLE LOAD (VOLT-AMPS)	3060	3240	2700	9000	-		1.00	) (FIRS		OkVA)			3060	3240	2700		RECEPTACLE DEMAND FACTOR PER ARTICLE		
TOTA RECEITAGE LOAD (VOLITAINI 3)		INT OVER		0				.50 (>					0	0	0		220.44 OF THE NATIONAL ELECTRICAL CODE.		
CONTINUOUS LOAD (VOLT-AMPS)	8543	8543	8543	25629				1.2		4			10679	10679	10679	32036	220.44 OF THE NATIONAL ELECTRICAL CODE.		
ION-CONTINUOUS LOAD (VOLT-AMPS)	0043	37	30	67				1.0					0	37	30	67	1		
NTERMITTENT USE LOAD (VOLT-AMPS)	500	500	550	1550				1.0					500	500	550	1550	1		
OTAL LOAD (kVA)	12.93	12.92	12.36	38.21	1	125% (	)F IIC	10.000		TAND	RECEPT		15.07	15.06	14.50	44.62	"PANEL RP-2"		
TOTAL AMPACITY (AMPS)	107.7	107.6	102.9	106.1	1						RLOAD		125.4	125.4	120.7	123.9	FAINEL KF-Z		
MINIMUM FEEDER SIZING (AMPS)	133.5	133.4	127.5	131.5	-		•						155.8	155.6	149.7	153.7	1		
MINTENOM I LEDEK SIZING (AMTS)	133.3	133,4	12/.3	131.3		< PER NEC ARTICLE 215.2>							100.0	100.0	147./	133.7	l		

PANEL DESIGNATION: PANEL LOCATION: FED FROM: FEEDER SIZE:	REFER TO REFER TO	O PLAN D O ONE-LII O ONE-LII	RAWING: NE DIAGR NE DIAGR	MAS		MAIN: 200A BREAKER BUSSING: 225A GROUND BUS: STANDARD MOUNTING: SURFACE NEUTRAL: 100%						P-P VOLTAGE: 208 P-N VOLTAGE: 120 PHASE: 3 WIRE: 4					
Remarks	LIGHT	RECEPT LOAD	CONT	nonC LOAD	INTER. USE	OC PROT	сст	Ø Ø A B	Ø	ССТ	OC PROT	INTER. USE	nonC LOAD	CONT	RECEPT LOAD	LIGHT	Remarks
LIGHTING (121,122,123,124,125,126,127,128)	493					20A	1	X	T	2	20A				1080		RECEPTACLES (120,121,122,123,143)
LIGHTING (128,129,120,143,142,141)	603					20A	3	X		4	20A				900		RECEPTACLES (124,125,126,127)
LIGHTING (137,138,139,140)	500					20A	5		X	6	20A		800				REFRIGERATOR (142)
LIGHTING (130,131,132,133,134,135,136)	539					20A	7	X		8	20A				720		RECEPTACLES (142)
DRYER(143)					2100	20A	9	X		10	20A				900		RECEPTACLES (128)
WASHING MACHINE (143)					1500	20A	11		X	12	20A				540		RECEPTACLES (120)
RECEPTACLES (139,140,141)		900				20A	13	X	1	14	20A				360		RECEPTACLES (138)
					1321		15	X		16	20A				900		RECEPTACLES (135,137,EXTERIOR)
OVERHEAD DOOR (138)					1321	30A	17		X	18	20A				900		RECEPTACLES (130,131)
					1321		19	X		20	20A				720		RECEPTACLES (136)
RECEPTACLES (133,134)		900				20A	21	X		22	20A				540		RECEPTACLES (132, EXTERIOR)
EXISTING HONEYWELL JACF			500			20A	23		X	24	20A				720		RECEPTACLES (132)
EXISTING FACP			500			20A	25	X		26	20A		62				EXHUAST FAN EF-3
EXISTING HVAC #1				1664		25A	27	X		28	20A			500			FREEZER (138)
EXISTING HVAC #1				1664		ZSA	29		X	30	20A			500			FREEZER (138)
EVICTING LIVAC #0				2600		40.4	31	X		32			2084				
EXISTING HVAC #2				2600		40A	40A <b>33</b>	X		34	25A		2084				VAV 2-3
DWH-1 (144)					1840	20A	35		X	36			2084				
PUMP P-2					50	20A	37	X		38			1458				
				1042			39	X		40	15A		1458				VAV 2-4
VAV 2-1				1042		15A	41		X	42			1458				
				1042		1	43	X	+	44			1458				
				2084			45	X		46	15A		1458				VAV 2-5
VAV 2-2				2084		25A	47		X	48			1458				
				2084		*	49	X	1	50	20A		444				GUH-1
EF-6				696		20A	51	X		52	20A				720		ROOF TOP UNIT RECEPTACLES
EF-7	1			696		20A	53		X	54	20A						SPARE
	1	CONNEC	TEDIO					DEM	AAID					DEMAN	DICAR		
LOAD DESCRIPTION		CONNEC			4			DEMA					C* A		D LOAD	TOTAL	
LOAD DESCRIPTION	ØA	ØB	ØC 500	TOTAL	4			FACT	_				ØA	ØB	ØC 500	TOTAL	
LIGHTING LOAD (VOLT-AMPS)	1032	603	500	2135	-		1.00	1.U		L\			1032	603	500	2135	DECEDIACIE DEMAND FACTOR DED ADTICLE
180VA RECEPTACLE LOAD (VOLT-AMPS)	3780	4860	2160	10800		1.00 (FIRST 10kVA) 0.50 (> 10kVA)							3500	4500	2000		RECEPTACLE DEMAND FACTOR PER ARTICLE
CONTINUOUS LOAD (VOLT ALIES)		INT OVER		800			U.			/AJ			140	180	80		220.44 OF THE NATIONAL ELECTRICAL CODE.
CONTINUOUS LOAD (VOLT-AMPS)	500	500	1000	2000		1.25							625	625	1250	2500	-
NON-CONTINUOUS LOAD (VOLT-AMPS)	11232	13086	11286	35604	-	1.00							11232	13086	11286	35604	
INTERMITENT USE LOAD (VOLT-AMPS)	1371	3421	4661	9453	-	10507 6	FUS			AND	NEO-DE		1371	3421	4661	9453	UDANIEL DD OU
TOTAL LOAD (kVA)	17.92	22.47	19.61	59.99	4	125% OF LIGHT, CONT AND RECEPT							17.90	22.42	19.78	60.09	PANEL RP-3"
TOTAL AMPACITY (AMPS)	149.2	187.1	163.3	166.5	1	(<=10kVA) LOAD PLUS OTHER LOAD < PER NEC ARTICLE 215.2>							149.1	186.6	164.7	166.8	
MINIMUM FEEDER SIZING (AMPS)	160.2	199.5	170.9	176.9		< F	ER NE	CAR	TICL	.E 215	.2>		159.8	198.6	172.5	177.0	

A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. REFER TO ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.



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ate	Issued For
2-21-2023	OWNER REVIEW
-17-2024	PERMIT REVIEW

Sheet Title:

ELECTRICAL PANEL SCHEDULES

Project Number: 22712.A