<b>ELEC</b>	TRICAL S	YMBOL	LEGEND1

SCALE: 12" = 1'-0"

# PANELBOARD IDENTIFICATION EQUIPMENT DESIGNATION CODE HIGH VOLTAGE 3Ø4W. 277/480 HP4 HIGH VOLTAGE 3Ø3W. 480 HP3 LOW VOLTAGE 3Ø3W. 480 HP3 LOW VOLTAGE 3Ø3W. 208 LP4 LOW VOLTAGE 1Ø3W. 120/240 LP2 LOW VOLTAGE 1Ø3W. 120/2408 LP1 SYSTEMS DESIGNATION CODE NORMAL NEWERGENCY EMERGENCY EMERG

# **SPECIFIC CODE NOTES**

FIRE PROTECTION REQUIREMENTS

- A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
- CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
   OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
- 3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
- B. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.
- C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

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### **ELECTRICAL SYMBOL NOTES**

		THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.	H1
	12b	EXAMPLE 1: LIGHTING FIXTURE TYPE "A" IS CONNECTED TO CIRCUIT 12 AND CONTROLLED BY SWITCH "b".	
	•	EXAMPLE 2: THE FIXTURE TYPE SHOWN AS A NUMERATOR INDICATES ALL LIGHTING  FIXTURES IN THE ROOM OR SPACE ARE THE SAME TYPE. THE CIRCUIT NUMBER AND  ** SWITCH DESIGNATION SHOWN AS A PENDMINATOR INDICATES ALL LIGHTING FIXTURES IN	T1
	* <u>P2D/I</u> * 2aba	SWITCH DESIGNATION SHOWN AS A DENOMINATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE CONNECTED TO THE SAME CIRCUIT, CONTROLLED BY THE SAME SWITCHES, CENTER/OUTBOARD MULTILEVEL SWITCHING.	LPN-102
	<b>⊦⊗</b> ↑ E 14	EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 14.	<u>(1)</u>
	16c	DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 16 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "c".	#10
	₩ <sub>d</sub>	THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".	#
1	D600 <del>I⊘</del> e	WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: 600 WATT WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "6". SEE SPECIFICATIONS FOR WATTAGE IF NOT INDICATED.	LPN-102 1.3.5
	① <b>-⊕</b> 1,3,5	SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. 1; 3 PHASE CONNECTION TO CIRCUITS 1, 3, 5.	1,0,0

MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR

EXAMPLE: MOTOR SF-1; 3 PHASE CONNECTION TO CIRCUITS 2, 4, 6.

CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT

SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL.

THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER.

ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE HEATER. EXAMPLE: ELECTRIC BASEBOARD HEATER TYPE "H1" CONNECTED TO CIRCUITS 7, 9. TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1". PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES. SPECIAL NOTE. SEE THE SPECIAL NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE HEXAGON. CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 # 12 CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE. CONDUIT SHOWN WITH SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER SLASH MARK IN 3/4" CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT TO THE SLASH MARKS. SLASH MARK INDICATORS ARE: SHORT STRAIGHT=PHASE CONDUCTOR, LONG STRAIGHT=NEUTRAL CONDUCTOR, SHORT BENT ENDED=SWITCH LEGS, LONG STRAIGHT WITH A DOT=GROUND CONDUCTOR, CHEVRON=CATEGORY 6, HALF CHEVRON=CATEGORY 3, TWIST=SHIELDED TWISTED PAIR. CONCENTRIC CIRCLE AND DOT=COAX CABLE. HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE

CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN

SYMBOL NOTATIONS: UPPER CASE LETTERS ADJACENT TO SYMBOLS INDICATE A

UNIT TYPE. SEE APPROPRIATE SCHEDULE OR SPECIFICATIONS.

TO PANELBOARD LPN-102; CIRCUITS 1, 3, 5.

ELECTRIC HEATER CONNECTIONS. THE HEATER TYPE IS INDICATED BY A NUMBER

FOLLOWING THE UPPER CASE LETTER "H". SEE THE HEATER SCHEDULE FOR

**ELECTRICAL ABBREVIATIONS LIST** 1 POLE (2P, 3P, 4P, ETC.) DOMESTIC WATER HEIGHT NATIONAL FLECTRICAL SWBD SWITCHBOARD HEATING CIRCULATING PUMP HTG MANUFACTURER'S SYM SYMMETRICAL DEPARTMENT HEATER ASSOCIATION SYSTEM ABOVE COUNTER OR AIR DETAIL HIGH VOLTAGE NON-FUSED SAFETY TELEPHONE TEL/DATA TELEPHONE/DATA DIAMETER HEATING VENTILATING AND DISCONNECT SWITCH ABOVE CEILING DISCONNECT AIR CONDITIONING NOT IN CONTRACT TERMINAL AUTOMATIC DOOR OPENER TWIST LOCK AMP FRAME DOWN NORMALLY OPEN TAMPER RESISTANT ABOVE FINISHED FLOOR INTERRUPTING CAPACITY NORMAL POWER FACTOR THERMOSTAT DAMPER ABOVE FINISHED GRADE SAFETY DISCONNECT SWITCH IG ISOLATED GROUND NTS NOT TO SCALE TELEPHONE TERMINAL DOUBLE THROW INTERRUPTER DRAWING INCANDESCENT TELEVISION TFI FVISION TERMINAL OVERLOADS AIR HANDI ING UNIT ALUMINUM ELECTRICAL CONTRACTOR INTERLOCK WITH ELECTRIC, ELECTRICAL PUBLIC ADDRESS **TYPICAL** AMPERE **ELEVATOR** JUNCTION BOX PULL BOX OR PUSHBUTTON LINDER COUNTER AMPI IFIFR **EMERGENCY** PNEUMATIC ELECTRIC ENERGY MANAGEMENT SYSTEM KV ANNUN ANNUNCIATOR UNDERGROUND ELECTRICAL **APPROX APPROXIMATELY** KILOVOLT-AMPERE UNDERGROUND AQ-STAT AQUASTAT KILOVOLT-AMPERE REACTIVE UNIT HEATER ELECTRIC PNEUMATIC ARCHITECT ARCHITECTURAL POST INDICATING VALVE UNDERGROUND TELEPHONE FOUIP FOUIPMENT KII OWATT AMP SWITCH FLECTRIC WATER COOLER KWH KILOWATT HOUR LITILITY POWER POLE UNIT VENTILATOR OR AUTOMATIC TRANSFER SWITCH EXH **EXHAUST** LOCATE OR LOCATION ULTRAVIOLET EXPLOSION PROOF PRIMARY AUTOMATIC LIGHT AUXILIARY LIGHTING PROJECTION FIRE ALARM LIGHTNING POWER ROOF VENTILATOR **VOLT-AMPERES** FIRE ALARM BOOSTER POWER LV LOW VOLTAGE POTENTIAL TRANSFORMER VIDEO DISPLAY TERMINAL AMERICAN WIRE GAUGE SUPPLY PANEL POLYVINYL CHLORIDE VFRTICAL FIRE ALARM CONTROL PANEL VARIABLE FREQUENCY DRIVE FAN COIL UNIT MAGNETIC STARTER BUILDING **FIXTURE** MOMENTARY CONTACT BUILDING MANAGEMEN FLR FI OOR QUAN MECHANICAL CONTRACTOR FLUOR FLUORESCENT MAIN CIRCUIT BREAKER WIRE GUARD MOTOR CONTROL CENTER FUDS FUSED SAFETY DISCONNECT MAIN DISTRIBUTION CENTER REQUIRED WATER HEATER **CABINET** WITHOUT MAIN DISTRIBUTION PANEL CATALOG MANUFACTURER RIGID STEEL CONDUI WEATHERPROOF CABLE TELEVISION CIRCUIT BREAKER GALLON TRANSFORMER SURFACE CONDUIT GALVANIZED XFR CLOSED CIRCUIT TELEVISION GALV MANHOI F TRANSFER GENERAL CONTRACTOR MICROPHONE SECONDARY **CEILING GENERATOR** MINIMUM MISCELLANEOUS GROUND FAULT CIRCU SIMILAR COMBINATION COMPRESSOR INTERRUPTER MAIN LUGS ONLY SOLID NEUTRAL CONN CONNECTION GROUND FAULT PROTECTOR MANUAL MOTOR STARTER **SPECIFICATION** CONSTRUCTION GROUND MULTIOUTLET ASSEMBLY MOTOR STARTER PANELROARD SP CONT CONTINUATION OR GALVANIZED RIGID STEEL CONTINUOUS (CONDUIT) MAIN SWITCHBOARD SURFACE RACEWAY CONTRACTOR GYP BD GYPSUM BOARD STAINLESS STEEL CONV CONVECTOR **EMPTY CONDUIT** SELECTOR SWITCH HANDS-OFF-AUTOMATIC CIRCULATING PUMP MANUAL TRANSFER SWITCH STOP/START PUSHBUTTONS INCHES CATHODE-RAY TUBE SWITCH MOTOR, MOTORIZED STATION NUMBER CURRENT TRANSFORMER HORIZ HORIZONTAL STANDARD HORSEPOWER SURFACE MOUNTED CENTER LINE

NATIONAL ELECTRICAL CODE SW

COPPER

HIGH POWER FACTOR

## **ELECTRICAL DRAWINGS**

PLATE

E0.1 LEGENDS & NOTES E0.2 LEGENDS & NOTES ES1.1 ELECTRICAL SITE PLAN E1.1 FIRST FLOOR PLAN - LIGHTING E1.2 FIRST FLOOR PLAN - LIGHTING FIRST FLOOR PLAN - POWER E1.4 FIRST FLOOR PLAN - POWER E1.5 FIRST FLOOR PLAN - SYSTEMS E1.6 FIRST FLOOR PLAN - SYSTEMS ELECTRICAL RISER - POWER E5.2 ELECTRICAL RISER - TELECOM E5.3 ELECTRICAL RISER - FIRE ALARM E5.4 ELECTRICAL DETAILS ELECTRICAL DETAILS E5.5 ELECTRICAL DETAILS

E5.7 ELECTRICAL DETAILS

E6.2 ELECTRICAL SCHEDULES

ELECTRICAL SCHEDULES

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SEAL

**CONSULTANT:** 

CITY OF CARIBOU, MAINE CARIBOU POLICE DEPARTMENT

PROJECT NUMBER: 2023102

SUBMISSION
PROGRESS SET

PROGRESS SET

ORIGINAL ISSUE

92475/2025

SHEET REVISION SCHEDULE: No. DATE

LEGENDS & NOTES

EET BEET EO.1

### **GENERAL ELECTRICAL NOTES**

1. DO NOT SCALE THESE DRAWINGS. SEE ARCHITECTURAL DOCUMENTS FOR EXACT LOCATIONS AND MOUNTINGS FOR FIXTURES, DEVICES, ETC. EXCEPT AS SPECIFICALLY

2. REFER TO DIVISION 21, 22 & 23 FOR ADDITIONAL FIRE PROTECTION/PLUMBING/HVAC EQUIPMENT AND REQUIREMENTS.

3. PROVIDE BRANCH CIRCUITING AND FINAL CONNECTION FOR ALL FIXTURES, OUTLETS AND EQUIPMENT.

4. INSTALLATION SHALL COMPLY WITH 2023 EDITION OF NEC, INCLUDING ALL STATE AND LOCAL AMENDMENTS.

5. MINIMUM CIRCUIT SIZE IS 1P-20A, 2 #12, 1 #12 GROUND MINIMUM CONDUIT SIZE IS 3/4", UNLESS OTHERWISE NOTED. WIRING METHOD FOR ALL SYSTEMS SHALL BE IN CONDUIT OR METAL RACEWAY UNLESS OTHERWISE NOTED. MC CABLE MAY BE ALLOWED WITH PRE-APPROVAL OBTAINED FROM THE DIVISION. WHERE MC CABLE IS APPROVED FOR USE, ALL HOMERUNS SHALL BE IN CONDUIT.

6. ALL NEW WIRING SHALL BE TYPE THHN/THWN RATED 75-90°C, 600V. WET-DRY LOCATIONS. MINIMUM BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG SOLID COPPER. BRANCH CIRCUITS LONGER THAN 75-FT FOR 120V OR 175-FT FOR 277V SHALL BE AT LEAST NO. 10 AWG FROM PANEL TO LAST OUTLET.

7. PROVIDE SEPARATE GREEN GROUND WIRE (SIZE PER NEC) FOR ALL CIRCUITS INCLUDING LIGHTING.

8. HOMERUN CONDUITS SHALL CONTAIN SIX (6) UNGROUNDED PHASE CONDUCTORS MAXIMUM. VOLTAGE DROP AS PER N.E.C.

9. PROVIDE SEPARATE NEUTRAL (EACH PHASE A NEUTRAL) FOR ALL 120 VOLT LIGHTING AND RECEPTACLE CIRCUITS.

10. WHERE INDIVIDUAL BRANCH CIRCUITS AS SHOWN ON PLANS ARE COMBINED AS MULTI-WIRE BRANCH CIRCUITS, THE MULTIWIRE BRANCH CIRCUITS SHALL BE

INSTALLED ACCORDING TO REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND STATE AMENDMENTS.

11. PROVIDE ROUGH-IN, FINAL CONNECTION, BRANCH CIRCUITS, PANELBOARDS, ETC, FOR ALL DEVICES AND EQUIPMENT SHOWN ON THESE DOCUMENTS.

12. CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS FOR ALL EQUIPMENT (MECHANICAL, PLUMBING, FIRE PROTECTION, OWNER PROVIDED, OTHER VENDOR PROVIDED, ETC.) PRIOR TO BEGINNING ROUGH-IN. ANY DISCREPANCIES WITH THESE PLANS SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION IMMEDIATELY.

13. THE MECHANICAL AND ELECTRICAL DRAWINGS INCLUDED IN THIS SET WERE ORIGINALLY PREPARED TO THE SCALE SHOWN ON THE TITLE BLOCK OF EACH SPECIFIC DRAWING. HOWEVER, BECAUSE OF THE INACCURACIES INHERENT TO THE ELECTRONIC PLOTTING AND/OR REPROGRAPHIC PROCESSES USED TO OBTAIN FINAL PRINTS, SPECIFIC DIMENSIONS SHOULD NOT BE OBTAINED BY SCALING OF THESE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL DIMENSIONS.

14. PERMANENT TYPE MARKING PENS SHALL BE USED TO NEATLY LABEL ALL JUNCTION BOX AND PULL BOX COVERS. WHERE BOXES ARE INSTALLED FOR THE INSTALLATION OF POWER WIRING, THE COVER SHALL INDICATE THE PANEL DESIGNATION AND CIRCUIT BREAKER NUMBER(S) ASSOCIATED WITH EACH BOX. WHERE BOXES ARE INSTALLED FOR THE THE INSTALLATION OF TELECOMMUNICATION WIRING, THE COVERS SHALL BE LABELED `TELECOMMUNICATIONS' AND INDICATE THE POINT OF THE SYSTEM DISTRIBUTION LOCATION ASSOCIATED WITH EACH BOX.

15. THE COVERS ON ALL PULL BOXES, JUNCTION BOXES AND ASSOCIATED COVERS FOR THE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL BE PAINTED RED AND SHALL BE NEATLY LABELED IN ACCORDANCE WITH THE LOCAL FIRE DEPARTMENT'S REQUIREMENTS.

16. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND PROVIDE AS REQUIRED FOR ALL THE FIRE DAMPERS AND MOTORIZED DAMPERS, AS SHOWN ON THE DOCUMENTS UNDER DIVISION 23 AND 26.

17. PROVIDE ENGRAVED NAMEPLATES FOR ALL NEW PANELBOARDS, DISCONNECT SWITCHES, MANUAL MOTOR STARTERS, SERVICE SWITCHES, ETC. NAMEPLATES SHALL BE SCREWED-ON OR RIVETED TO THE EQUIPMENT. ADHESIVE TYPES WILL NOT BE ACCEPTABLE. NAMEPLATES SHALL BE LAMINATED BLACK WITH WHITE ENGRAVED TEXT. TEXT HEIGHT SHALL BE 1/4".

18. ALL PANELBOARDS SHALL BE FURNISHED WITH TYPEWRITTEN CIRCUIT DIRECTORIES AT CLOSE OF PROJECT. ALL SPARE CIRCUIT BREAKERS SHALL BE IDENTIFIED ON THE CIRCUIT DIRECTORIES AS 'SPARES' AND SHALL BE LOCKED IN THE OFF POSITION. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROPERLY PHASE BALANCING LOADS ON EACH PANELBOARD.

19. COLOR OF DEVICES AND PLATES SHALL BE AS DIRECTED BY THE ARCHITECT.

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20. DISCONNECT SWITCHES SHALL BE HEAVY DUTY (HD), SIDE OPERATED WITH INTERLOCKING COVER.

21. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY ALL CHARGES FOR PERMITS AND INSPECTIONS.

22. UNDER NO CIRCUMSTANCES SHALL ANY BACK BOXES OR CONDUIT BE INSTALLED SURFACE MOUNTED ON NEW CONSTRUCTION IN FINISHED AREAS, INCLUDING FINISHED AREAS WITH BLOCK WALLS. ANY BACK BOXES OR CONDUIT INSTALLED SURFACE MOUNTED ON FINISHED WALLS SHALL BE REINSTALLED BY THE ELECTRICAL CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT AND WITH NO ADDITIONAL COSTS TO THE ELECTRICAL CONTRACTOR.

23. ALL DEVICE COVER PLATES SHALL BE LABELED IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS.

24. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FOR THE MAGNETIC HOLD DOOR OPENER, ELECTRONIC LOCK AND THE AUTOMATIC DOOR OPENER AS SHOWN ON OR SPECIFIED UNDER THE ARCHITECTURAL SECTIONS AS FOLLOWS:

A) POWER AS REQUIRED; COORDINATE WITH SUPPLIER.

B) FIRE ALARM INTERFACE INCLUDING WIRING AND FINAL CONNECTIONS FOR AN OPERATIONAL COMPLETE SYSTEM AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

25. COORDINATE WITH THE GENERAL CONTRACTOR AND ALL OTHER SUB-CONTRACTORS IN ORDER TO DETERMINE THE OVERALL PROJECT PHASING AND WORK

26. ALL 15- AND 20-AMP, 125- AND 250-VOLT NON-LOCKING TYPE RECEPTACLES SHALL BE TAMPER-RESISTANT IN ACCORDANCE WITH NEC 406.12.

27. TEMPORARY LIGHT AND POWER SHALL BE PROVIDED ON SITE BY THE ELECTRICAL CONTRACTOR. COST OF ELECTRICITY SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION MANAGER.

28. WIRING METHOD FOR ALL SYSTEMS SHALL BE IN CONDUIT OR METAL RACEWAY UNLESS OTHERWISE NOTED. MC CABLE MAY BE ALLOWED WITH PRE-APPROVAL OBTAINED FROM THE DIVISION. WHERE MC CABLE IS APPROVED FOR USE, ALL HOMERUNS SHALL BE IN CONDUIT.

### GENERAL LOW VOLTAGE NOTES

A. ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.

B. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS WHERE NOTED.

C. INSTALL CONDUIT WITH NO MORE THAN (2) 90° BENDS BETWEEN PULL BOXES, AND NO MORE THAN 100'-0" BETWEEN PULL BOXES. PULL BOXES SHALL BE INSTALLED FOR STRAIGHT THRU PULLS ONLY.

D. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CABLE TRAY AS MUCH AS POSSIBLE ABOVE ACCESSIBLE CEILINGS, OR IN CONDUIT WHERE NOT ACCESSIBLE. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY.

E. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER

F. TV OUTLETS, VOLUME CONTROLS, TELE/DATA OUTLETS, SECURITY DEVICES, AND FIRE ALARM DEVICES SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, SEE STUB UP DETAIL. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.

G. FURNISH AND INSTALL CONDUIT FROM BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR, UNLESS NOTED OTHERWISE:

1"C TV OUTLETS 3/4"C VOLUME CONTROLS

3/4"C

3/4"C SECURITY CCTV
3/4"C SECURITY DOOR ACCESS CONTROL

TELEPHONE OUTLETS
INFORMATION OUTLETS

FIRE ALARM DEVICES

LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.

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CITY OF CARIBOU, MAINE CARIBOU POLICE DEPARTMENT

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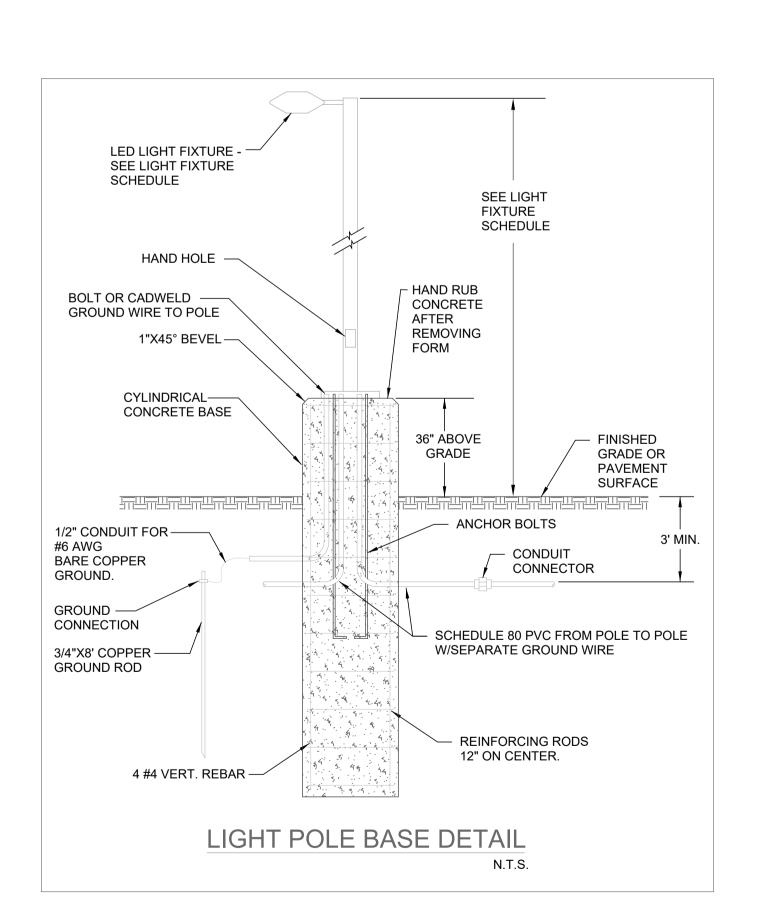
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**92475**/2025 SHEET REVISION SCHEDULE

LEGENDS & NOTES

E0.2

SCALE: 1" = 30'-0"



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### GENERAL SHEET NOTES

1. REFER TO CIVIL DRAWINGS FOR ROUTING OF ALL UNDERGROUND CONDUIT AND COORDINATION WITH SITE UTILITIES.

# 2. ALL UNDERGROUND SHALL BE SCHEDULE 80 PVC, MINIMUM SIZE 1"C UNLESS OTHERWISE NOTED.

3. ALL SITE LIGHTING BRANCH CIRCUIT WIRING SHALL BE MINIIMUM #10 AWG.. ROUTE ALL EXTERIOR LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTROL RELAY PANEL LOCATED IN MAIN ELECTRICAL ROOM.

# 4. PROVIDE HAND HOLE/PULL BOXES AS REQUIRED, PROPERLY SIZED PER NEC FOR SITE LIGHTING AND POWER

5. ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED 36" BELOW FINISHED GRADE.
6. ALL CONDUIT SWEEPS TURNED UP IN EQUIPMENT SLABS SHALL BE INSTALLED AS RIGID STEEL GALVANIZED CONDUIT. GROUND STEEL CONDUITS IN ACCORDANCE WITH APPLICABLE CODES.

7. PROVIDE HAND HOLE BOXES AND EXTENSIONS TO ALLOW FOR CONDUIT BURIAL DEPTHS AND CONDUIT/BOX FILL CODE REQUIREMENTS.

8. ALL EMPTY CONDUITS SHALL CONTAIN A NYLON PULL ROPE.

### KEYED SHEET NOTES

1. PROVIDE (2)4"C W/ PULL WIRE FOR TELECOM. CONFIRM CONDUIT ROUTING AND REQUIREMENTS WITH TELECOM UTILITY.

2. PROVIDE (2)5"C W/ PULL WIRE FOR ELECTRICAL PRIMARY SERVICE. COORDINATE ROUTING IN FIELD WITH OTHER UTILITIES

3. PROVIDE (2)4"C W/ CONDUCTORS AND (1)4"C SPARE FOR ELECTRICAL SECONDARY SERVICE. COORDINATE ROUTING IN FIELD WITH OTHER UTILITIES AND CIVIL PLANS.

4. PROVIDE (2)4"C W/ CONDUCTORS FOR GENERATOR STANDBY FEEDER AND (4)1"C W/ W/ CONDUCTORS FOR CONTROLS. COORDINATE ROUTING IN FIELD WITH OTHER UTILITIES AND CIVIL

5. 2#10,1#10G-1"C, UNLESS OTHERWISE NOTED.

AND CIVIL PLANS.

6. ELECTRIC VEHICLE CHARGING STATION - PROVIDE 1"C WITH CONDUCTORS [2 SETS OF(2#8,1#10G)] AND 1"C WITH NYLON PULL ROPE FOR DATA FOR EACH EV SPACE. CONDUITS SHALL ORIGINATE FROM THE SERVICE ELECTRIC PANEL AND BE ROUTED FROM A FLUSH IN-GRADE PULLBOX INTO THE CONCRETE BASE FOR THE EV CHARGING STATION. PROVIDE SEPARATE PULLBOX FOR

POWER AND DATA. CONDUITS SHALL BE STUBBED 6" ABOVE THE

LOCATIONS WITH SITE CONTRACTOR AND THE OWNER.

THE CONCRETE BASE AND BE CAPPED AND LABELED. COORDINATE

7. PROVIDE 6" CONCRETE FILLED GALVANIZED STEEL PROTECTIVE BOLLARD.

8. PROVIDE (2)1"C WITH PULL ROPE FOR CAMERA POE SWITCH POWER AND DATA. CONDUITS SHALL RUN FROM MAIN ELEC RM AND MDF RM. PROVIDE 20A CIRCUIT (2#10,1#10G-1"C) FOR WAP/POE SWITCH POWER.FIELD COORDINATE REQUIREMENTS AND LOCATION OF CAMERA/POE SWITCH PRIOR TO ROUGH-IN.

9. PROVIDE (3) 1" CONDUITS FOR GATE POWER/CONTROL WIRING, CARD ACCESS WIRING, EXIT REQUEST WIRING AND AUDIO VIDEO INTERCOM WIRING. COORDINATE EXACT REQUIREMENTS WITH THE SYSTEM SUPPLIERS PRIOR TO ROUGHING IN. GATE POWER CONDUIT SHALL BE RUN FROM HANDHOLE TO PANELBOARD FEEDING THE GATE OPENER. AUDIO VIDEO INTERCOM CONDUIT SHALL BE RUN TO DUTY OFFICE. HANDHOLE FOR SLIDE GATE MOTOR POWER. PROVIDE COVER LOGO DESCRIPTION AS

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Project #530419

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CITY OF CARIBOU, MAINE CARIBOU POLICE DEPARTMENT

PROJECT NUMBER: 2023102
SUBMISSION

PROGRESS SET

ORIGINAL ISSUE

92425/2025

SHEET REVISION SCHEDULE:
No. DATE

ELECTRICAL SITE PLAN

SHEET NUMBER: ES1.1

**GENERAL SHEET NOTES** 

1. COORDINATE ALL LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILINGS PLANS AND ELEVATIONS. CONFIRM SWITCHING SCHEME AND SWITCH LOCATIONS WITH ARCHITECT/OWNER PRIOR TO

2. PROVIDE UNSWITCHED WIRING TO EXIT SIGNS. COORDINATE EXIT SIGN LOCATIONS WITH ARCHITECTURAL EMERGENCY EGRESS PLANS.

3. ALL LIGHT FIXTURE LOCATIONS SHALL BE COORDINATED WITH HVAC DUCTWORK AND OTHER EQUIPMENT IN FIELD TO AVOID INTERFERENCE PRIOR

4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING.

5. MC TYPE CONDUCTOR WITH INTEGRAL GROUND WIRE MAY BE UTILIZED FOR POWER AND LIGHTING CIRCUITS. MC CABLE SHALL BE UTILIZED ONLY WHERE COMPLETELY CONCEALED.

6. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.

7. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES AND REFLECTED CEILING PLAN FOR INTERIOR LIGHTS. 8. PROVIDE PROPER NUMBER OF CONDUCTORS TO

9. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET, #8 AWG FOR 20 AMP, 120 VOLT BRANCH CIRCUITS LONGER THAN 150 FEET AND #10 AWG FOR 20 AMPERE, 277 VOLT CIRCUITS LONGER THAN 150 FEET, UNLESS SPECIFICALLY NOTED OTHERWISE. THIS INCREASED WIRE SIZE SHALL BE REQUIRED FOR THE ENTIRE

10. PROVIDE UL 924 LIGHTING RELAY CONTROL DEVICE FOR ALL EMERGENCY FIXTURES CONTROLLED BY A SEPARATE LOCAL SWITCH/SENSOR AND NOT BY THE LIGHTING CONTROL SYSTEM WHETHER OR NOT SHOWN

11. PLACE YELLOW ADHESIVE DOT ON EVERY EMERGENCY LUMINAIRE OR ON THE CEILING GRID ADJACENT TO THE EMERGENCY LUMINAIRE.

12. LOCAL DIGITAL RELAY POWER PACKS SHALL BE CIRCUITED TO THE SAME CIRCUIT AS THE LIGHTS BEING CONTROLLED BY THAT RELAY/POWER PACK. 13. COORDINATE EXIT SIGN LOCATIONS WITH ARCHITECT AND EMERGENCY EGRESS PLANS.

**KEYED SHEET NOTES** 

1. SWITCH BANK FOR ALL Z# ZONES AND EXTERIOR. PROVIDE (1) QSWS2-5BRL.

2. HOLDING CELL LIGHT SWITCH LOCATIONS

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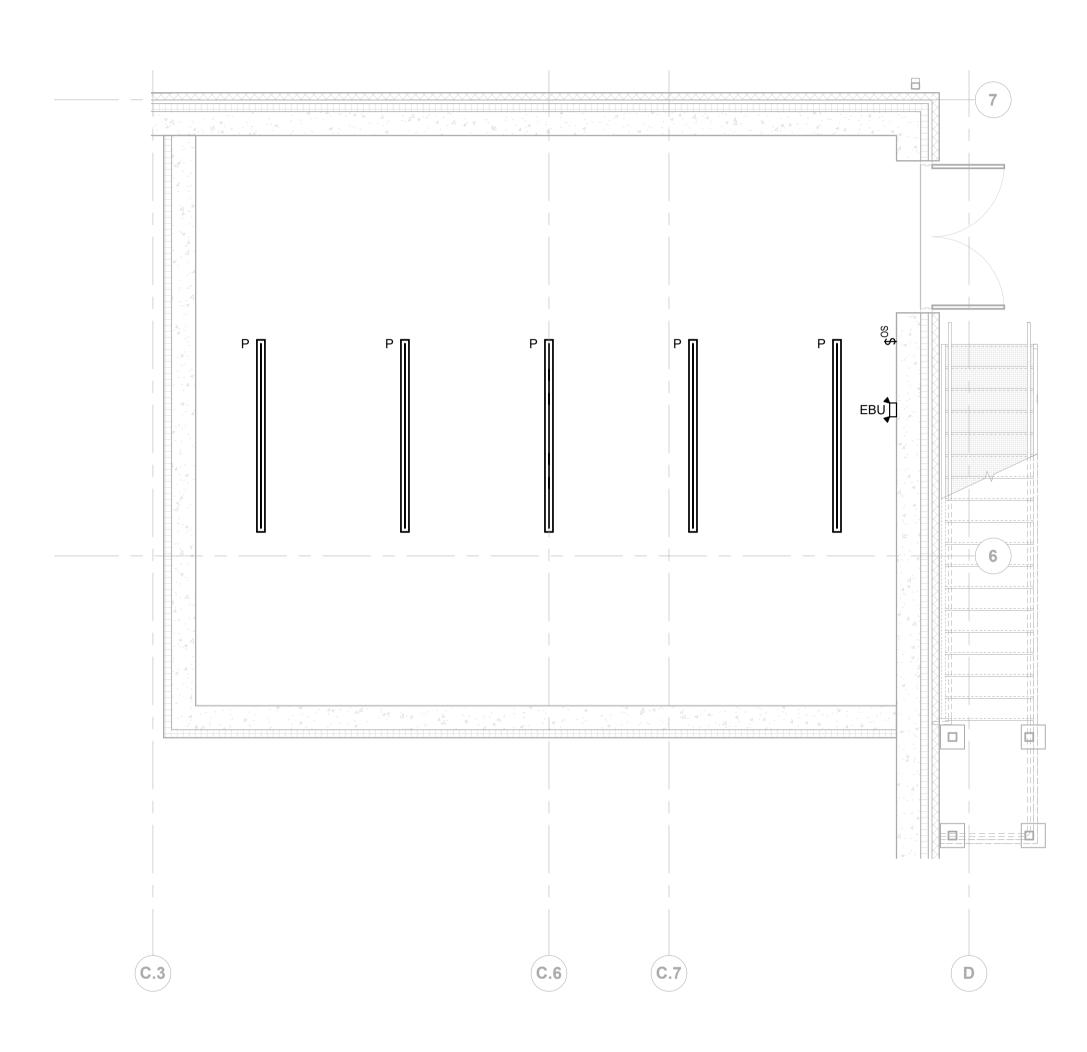
PROJECT NUMBER: 2023102

**92\25**/2025

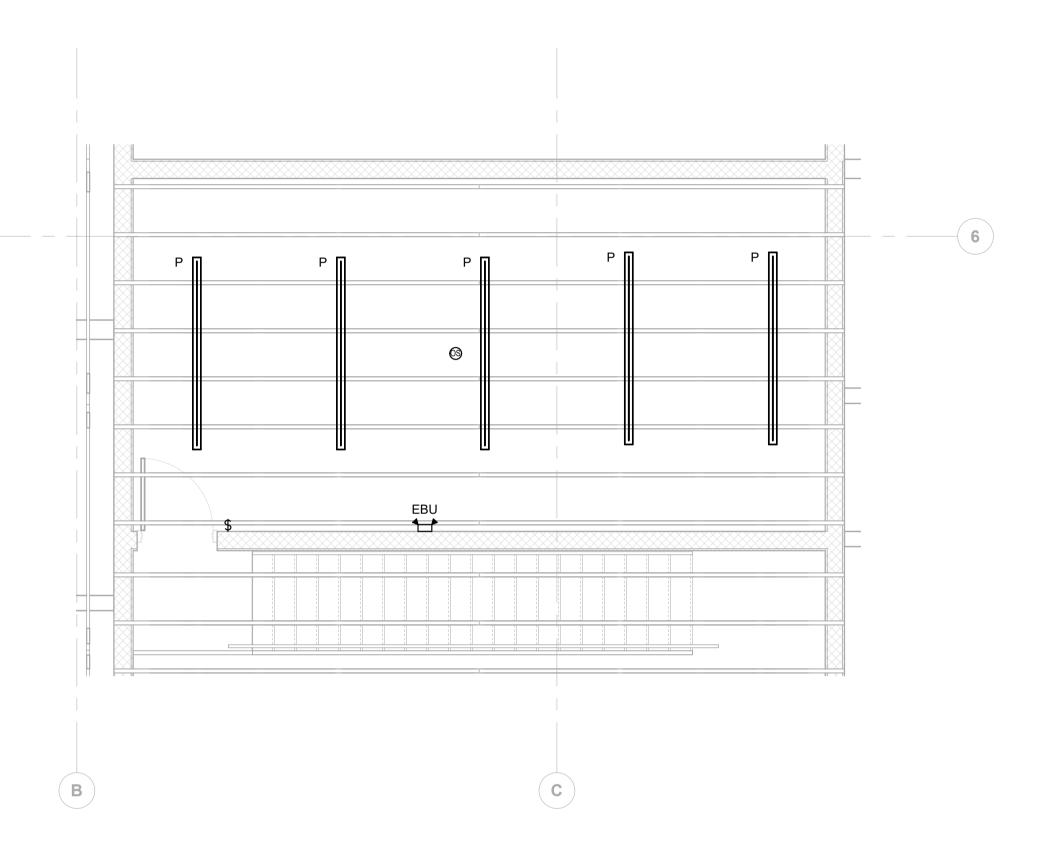
**SHEET REVISION SCHEDULE:** No. DATE

FIRST FLOOR PLAN - LIGHTING

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**BASEMENT - LIGHTING** 

SCALE: 1/4" = 1'-0"

**MEZZANINE - LIGHTING** 

SCALE: 1/4" = 1'-0"

**GENERAL SHEET NOTES** 

1. COORDINATE ALL LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILINGS PLANS AND ELEVATIONS. CONFIRM SWITCHING SCHEME AND SWITCH LOCATIONS WITH ARCHITECT/OWNER PRIOR TO

2. PROVIDE UNSWITCHED WIRING TO EXIT SIGNS. COORDINATE EXIT SIGN LOCATIONS WITH ARCHITECTURAL EMERGENCY EGRESS PLANS.

3. ALL LIGHT FIXTURE LOCATIONS SHALL BE COORDINATED WITH HVAC DUCTWORK AND OTHER EQUIPMENT IN FIELD TO AVOID INTERFERENCE PRIOR

4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING.

5. MC TYPE CONDUCTOR WITH INTEGRAL GROUND WIRE MAY BE UTILIZED FOR POWER AND LIGHTING CIRCUITS. MC CABLE SHALL BE UTILIZED ONLY WHERE COMPLETELY CONCEALED.

6. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS

INDICATED OTHERWISE.

7. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES AND REFLECTED CEILING PLAN FOR INTERIOR LIGHTS.

8. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

9. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET, #8 AWG FOR 20 AMP, 120 VOLT BRANCH CIRCUITS LONGER THAN 150 FEET AND #10 AWG FOR 20 AMPERE, 277 VOLT CIRCUITS LONGER THAN 150 FEET, UNLESS SPECIFICALLY NOTED OTHERWISE. THIS INCREASED WIRE SIZE SHALL BE REQUIRED FOR THE ENTIRE LENGTH OF THE CIRCUIT.

10. PROVIDE UL 924 LIGHTING RELAY CONTROL DEVICE FOR ALL EMERGENCY FIXTURES CONTROLLED BY A SEPARATE LOCAL SWITCH/SENSOR AND NOT BY THE LIGHTING CONTROL SYSTEM WHETHER OR NOT SHOWN

11. PLACE YELLOW ADHESIVE DOT ON EVERY EMERGENCY LUMINAIRE OR ON THE CEILING GRID ADJACENT TO THE EMERGENCY LUMINAIRE.

12. LOCAL DIGITAL RELAY POWER PACKS SHALL BE CIRCUITED TO THE SAME CIRCUIT AS THE LIGHTS BEING CONTROLLED BY THAT RELAY/POWER PACK.

13. COORDINATE EXIT SIGN LOCATIONS WITH ARCHITECT AND EMERGENCY EGRESS PLANS.

**KEYED SHEET NOTES** 

1. SWITCH BANK FOR ALL Z# ZONES AND EXTERIOR. PROVIDE (1) QSWS2-5BRL.

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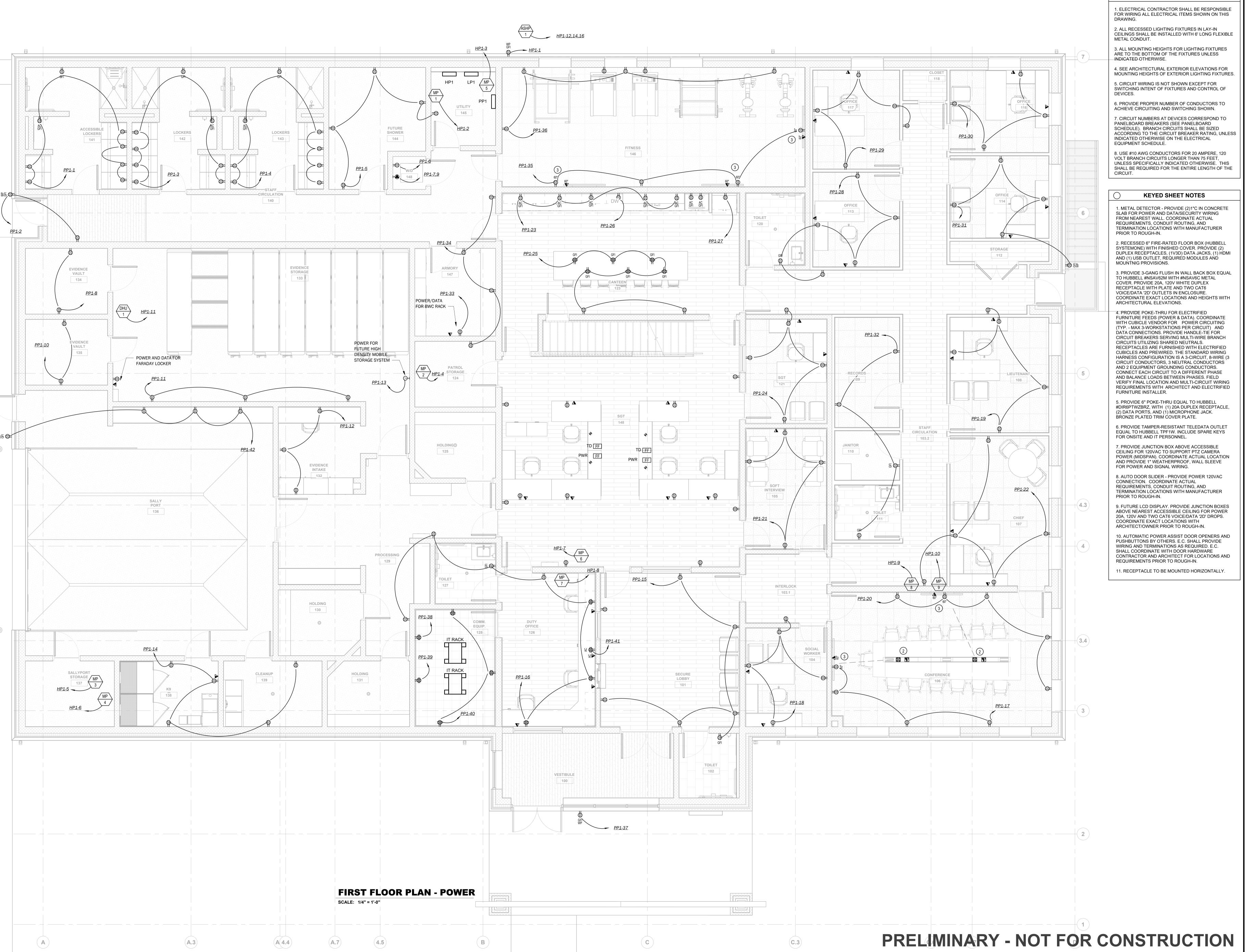
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FIRST FLOOR PLAN - LIGHTING



**GENERAL SHEET NOTES** 

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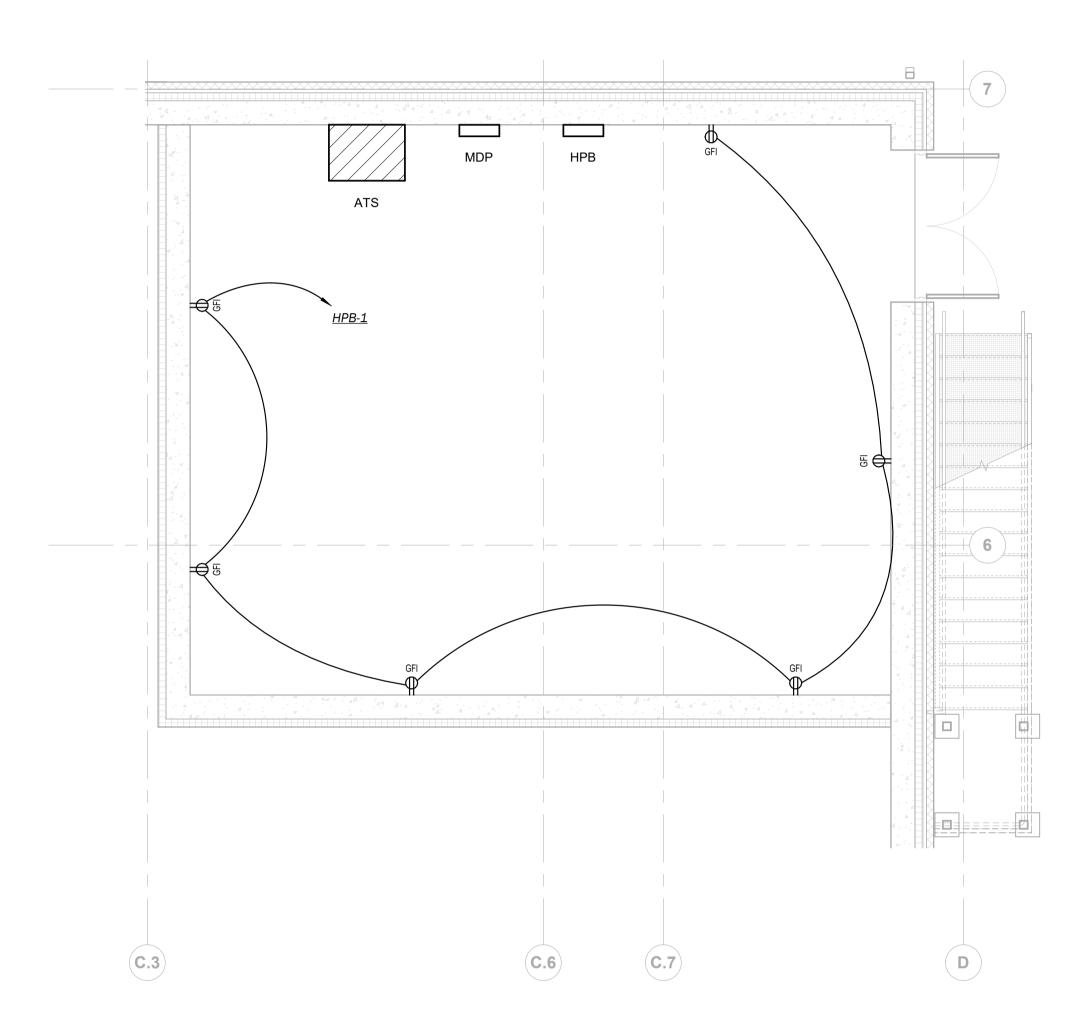
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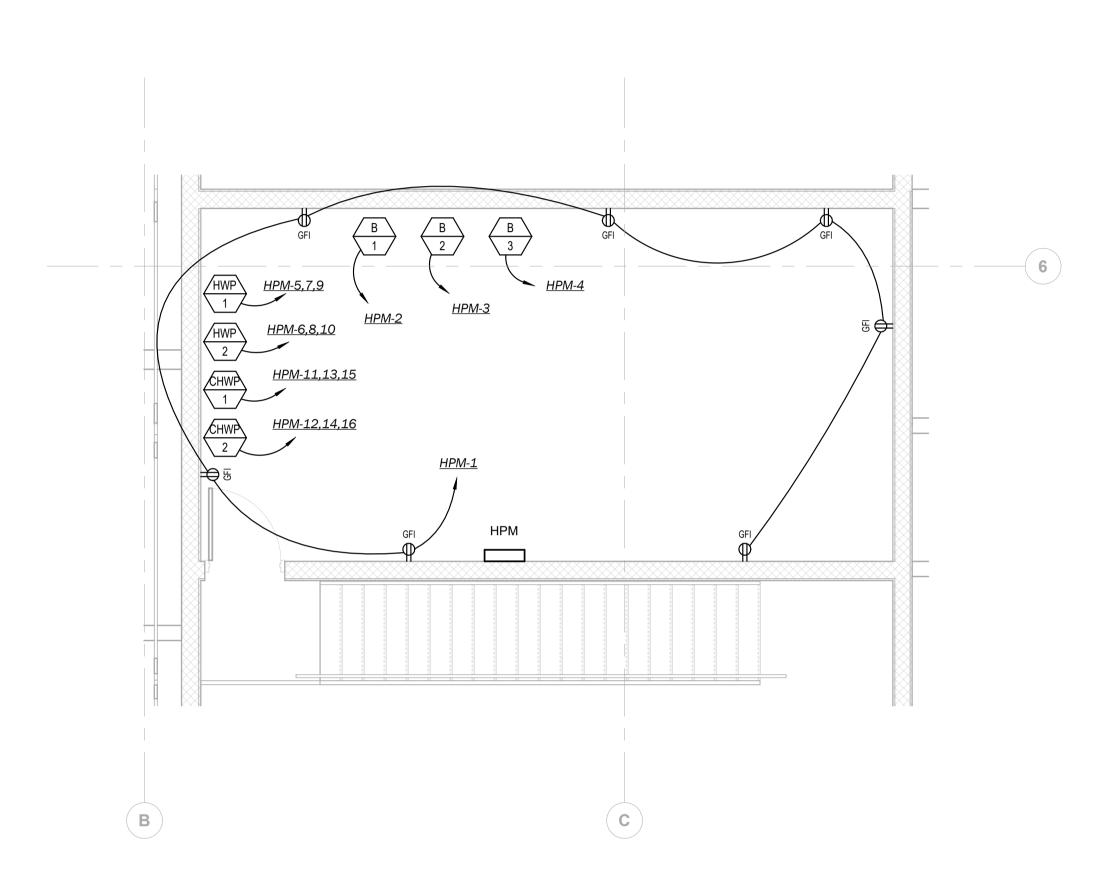
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**BASEMENT - POWER** 

SCALE: 1/4" = 1'-0"



**MEZZANINE - POWER** 

SCALE: 1/4" = 1'-0"

**GENERAL SHEET NOTES** 

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING.

2. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE

METAL CONDUIT.

3. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS

INDICATED OTHERWISE.

4. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR

4. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.

5. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF

6. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

DEVICES.

7. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

8. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET, UNLESS SPECIFICALLY INDICATED OTHERWISE. THIS SHALL BE REQUIRED FOR THE ENTIRE LENGTH OF THE CIRCUIT

KEYED SHEET NOTES

1. METAL DETECTOR - PROVIDE (2)1"C IN CONCRETE SLAB FOR POWER AND DATA/SECURITY WIRING FROM NEAREST WALL. COORDINATE ACTUAL REQUIREMENTS, CONDUIT ROUTING, AND TERMINATION LOCATIONS WITH MANUFACTURER PRIOR TO ROUGH-IN.

2. RECESSED 6" FIRE-RATED FLOOR BOX (HUBBELL SYSTEMONE) WITH FINISHED COVER. PROVIDE (2) DUPLEX RECEPTACLES, (1V3D) DATA JACKS, (1) HDMI AND (1) USB OUTLET, REQUIRED MODULES AND MOUNTNIG PROVISIONS.

3. PROVIDE 3-GANG FLUSH IN WALL BACK BOX EQUAL TO HUBBELL #NSAV62M WITH #NSAV6C METAL COVER. PROVIDE 20A, 120V WHITE DUPLEX RECEPTACLE WITH PLATE AND TWO CAT6 VOICE/DATA '2D' OUTLETS IN ENCLOSURE. COORDINATE EXACT LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATIONS.

4. PROVIDE POKE-THRU FOR ELECTRIFIED FURNITURE FEEDS (POWER & DATA). COORDINATE WITH CUBICLE VENDOR FOR POWER CIRCUITING (TYP. - MAX 3-WORKSTATIONS PER CIRCUIT) AND DATA CONNECTIONS. PROVIDE HANDLE-TIE FOR CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS UTILIZING SHARED NEUTRALS. RECEPTACLES ARE FURNISHED WITH ELECTRIFIED CUBICLES AND PREWIRED. THE STANDARD WIRING HARNESS CONFIGURATION IS A 3-CIRCUIT, 8-WIRE (3 CIRCUIT CONDUCTORS, 3 NEUTRAL CONDUCTORS AND 2 EQUIPMENT GROUNDING CONDUCTORS. CONNECT EACH CIRCUIT TO A DIFFERENT PHASE AND BALANCE LOADS BETWEEN PHASES. FIELD VERIFY FINAL LOCATION AND MULTI-CIRCUIT WIRING REQUIREMENTS WITH ARCHITECT AND ELECTRIFIED FURNITURE INSTALLER.

5. PROVIDE 6" POKE-THRU EQUAL TO HUBBELL #DIR6PTWZBRZ, WITH (1) 20A DUPLEX RECEPTACLE, (2) DATA PORTS, AND (1) MICROPHONE JACK. BRONZE PLATED TRIM COVER PLATE.

6. PROVIDE TAMPER-RESISTANT TELEDATA OUTLET EQUAL TO HUBBELL TPF1W. INCLUDE SPARE KEYS FOR ONSITE AND IT PERSONNEL.

7. PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR 120VAC TO SUPPORT PTZ CAMERA POWER (MIDSPAN). COORDINATE ACTUAL LOCATION AND PROVIDE 1" WEATHERPROOF, WALL SLEEVE FOR POWER AND SIGNAL WIRING.

8. AUTO DOOR SLIDER - PROVIDE POWER 120VAC CONNECTION. COORDINATE ACTUAL REQUIREMENTS, CONDUIT ROUTING, AND TERMINATION LOCATIONS WITH MANUFACTURER PRIOR TO ROUGH-IN.

9. FUTURE LCD DISPLAY. PROVIDE JUNCTION BOXES ABOVE NEAREST ACCESSIBLE CEILING FOR POWER 20A, 120V AND TWO CAT6 VOICE/DATA '2D' DROPS. COORDINATE EXACT LOCATIONS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

10. AUTOMATIC POWER ASSIST DOOR OPENERS AND PUSHBUTTONS BY OTHERS. E.C. SHALL PROVIDE WIRING AND TERMINATIONS AS REQUIRED. E.C. SHALL COORDINATE WITH DOOR HARDWARE CONTRACTOR AND ARCHITECT FOR LOCATIONS AND REQUIREMENTS PRIOR TO ROUGH-IN.

11. RECEPTACLE TO BE MOUNTED HORIZONTALLY.

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SEAL:

CITY OF CARIBOU, MAINE CARIBOU POLICE DEPARTMENT

SUBMISSION

PROJECT NUMBER: 2023102

PROGRESS SET

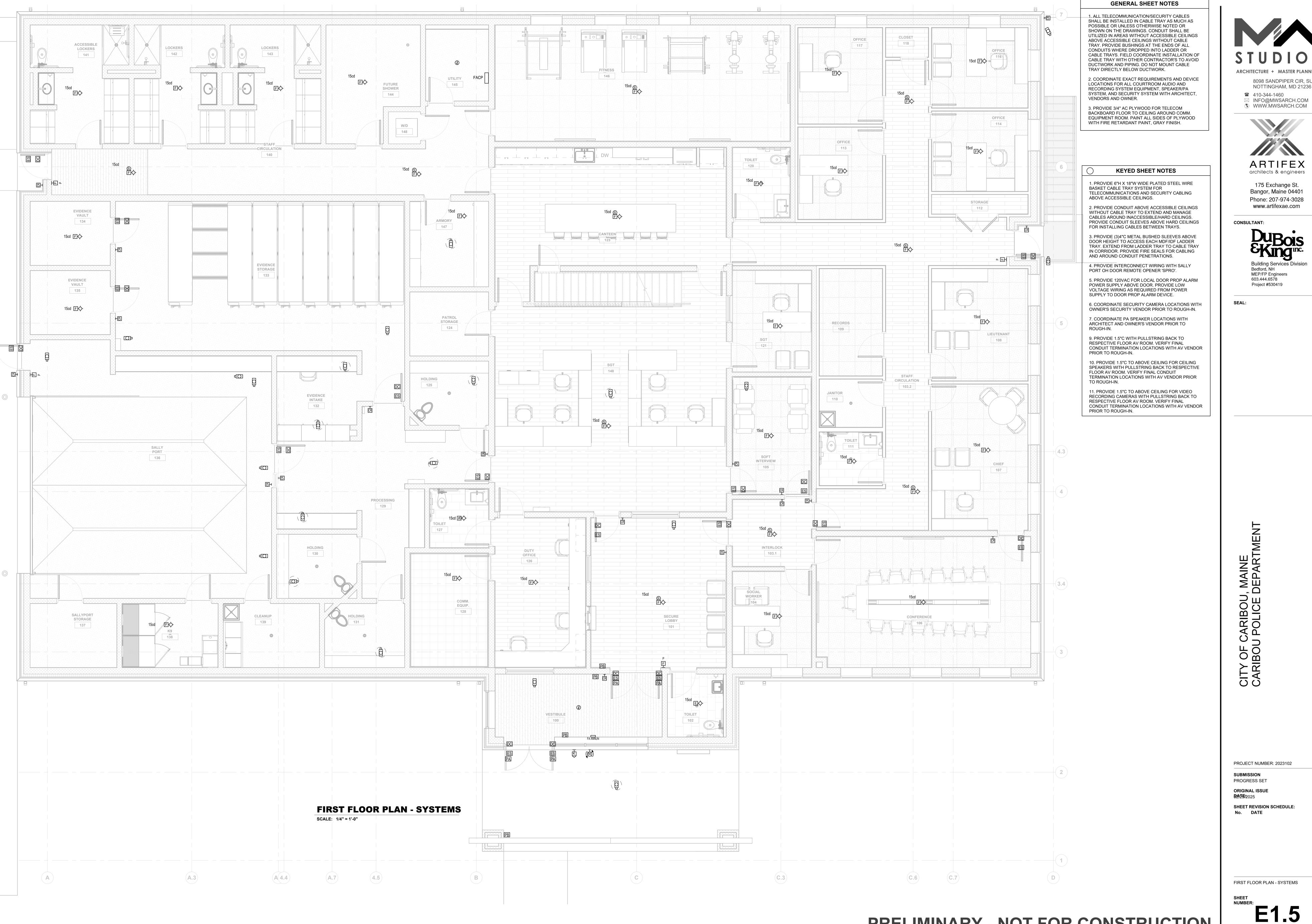
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FIRST FLOOR PLAN - POWER

E1.4



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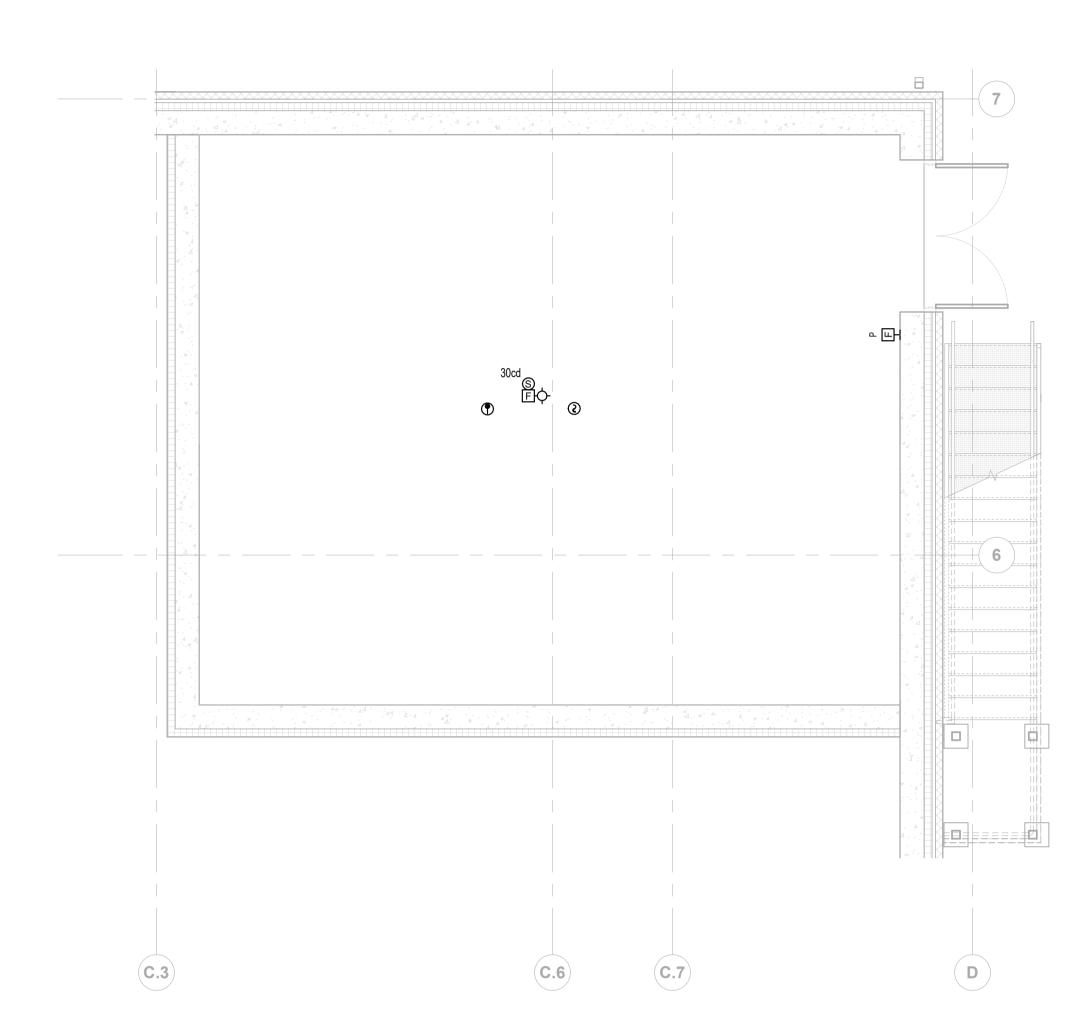
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PROJECT NUMBER: 2023102 PROGRESS SET

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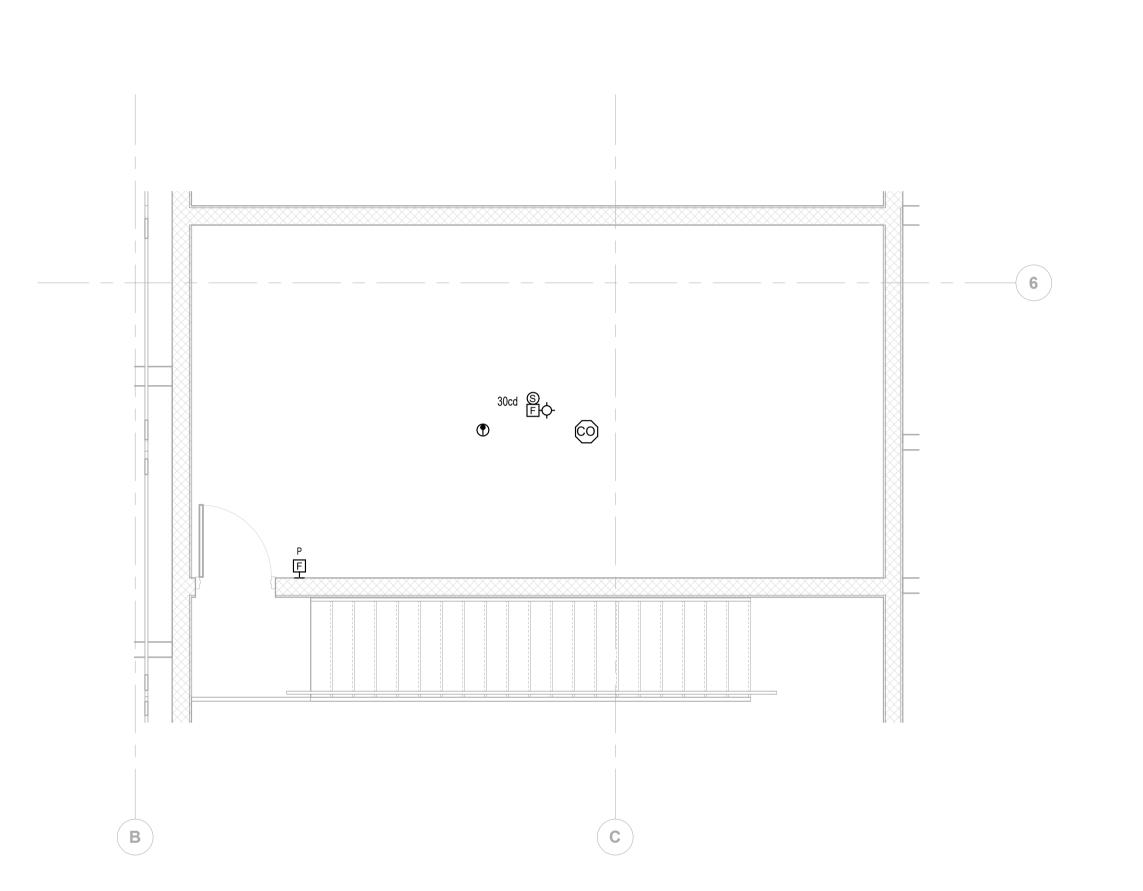
FIRST FLOOR PLAN - SYSTEMS



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**BASEMENT - SYSTEMS** 

SCALE: 1/4" = 1'-0"



MEZZANINE - SYSTEMS

SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

1. ALL TELECOMMUNICATION/SECURITY CABLES SHALL BE INSTALLED IN CABLE TRAY AS MUCH AS POSSIBLE OR UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS. CONDUIT SHALL BE UTILIZED IN AREAS WITHOUT ACCESSIBLE CEILINGS ABOVE ACCESSIBLE CEILINGS WITHOUT CABLE TRAY. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUITS WHERE DROPPED INTO LADDER OR CABLE TRAYS. FIELD COORDINATE INSTALLATION OF CABLE TRAY WITH OTHER CONTRACTOR'S TO AVOID DUCTWORK AND PIPING. DO NOT MOUNT CABLE TRAY DIRECTLY BELOW DUCTWORK.

2. COORDINATE EXACT REQUIREMENTS AND DEVICE LOCATIONS FOR ALL COURTROOM AUDIO AND RECORDING SYSTEM EQUIPMENT, SPEAKER/PA SYSTEM, AND SECURITY SYSTEM WITH ARCHITECT, VENDORS AND OWNER.

KEYED SHEET NOTES

1. PROVIDE 6"H X 18"W WIDE PLATED STEEL WIRE BASKET CABLE TRAY SYSTEM FOR TELECOMMUNICATIONS AND SECURITY CABLING ABOVE ACCESSIBLE CEILINGS.

2. PROVIDE CONDUIT ABOVE ACCESSIBLE CEILINGS WITHOUT CABLE TRAY TO EXTEND AND MANAGE CABLES AROUND INACCESSIBLE/HARD CEILINGS. PROVIDE CONDUIT SLEEVES ABOVE HARD CEILINGS FOR INSTALLING CABLES BETWEEN TRAYS.

3. PROVIDE (3)4"C METAL BUSHED SLEEVES ABOVE

DOOR HEIGHT TO ACCESS EACH MDF/IDF LADDER TRAY. EXTEND FROM LADDER TRAY TO CABLE TRAY

IN CORRIDOR. PROVIDE FIRE SEALS FOR CABLING AND AROUND CONDUIT PENETRATIONS.

4. PROVIDE INTERCONNECT WIRING WITH SALLY

5. PROVIDE 120VAC FOR LOCAL DOOR PROP ALARM POWER SUPPLY ABOVE DOOR. PROVIDE LOW VOLTAGE WIRING AS REQUIRED FROM POWER SUPPLY TO DOOR PROP ALARM DEVICE.

PORT OH DOOR REMOTE OPENER 'SPRO'.

6. COORDINATE SECURITY CAMERA LOCATIONS WITH OWNER'S SECURITY VENDOR PRIOR TO ROUGH-IN.7. COORDINATE PA SPEAKER LOCATIONS WITH

ARCHITECT AND OWNER'S VENDOR PRIOR TO ROUGH-IN.

9. PROVIDE 1.5"C WITH PULLSTRING BACK TO RESPECTIVE FLOOR AV ROOM. VERIFY FINAL

CONDUIT TERMINATION LOCATIONS WITH AV VENDOR PRIOR TO ROUGH-IN.

10. PROVIDE 1.5"C TO ABOVE CEILING FOR CEILING

SPEAKERS WITH PULLSTRING BACK TO RESPECTIVE FLOOR AV ROOM. VERIFY FINAL CONDUIT TERMINATION LOCATIONS WITH AV VENDOR PRIOR TO ROUGH-IN.

11. PROVIDE 1.5"C TO ABOVE CEILING FOR VIDEO RECORDING CAMERAS WITH PULLSTRING BACK TO RESPECTIVE FLOOR AV ROOM. VERIFY FINAL CONDUIT TERMINATION LOCATIONS WITH AV VENDOI PRIOR TO ROUGH-IN.

STUDIO:
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FIRST FLOOR PLAN - SYSTEMS

E1.6



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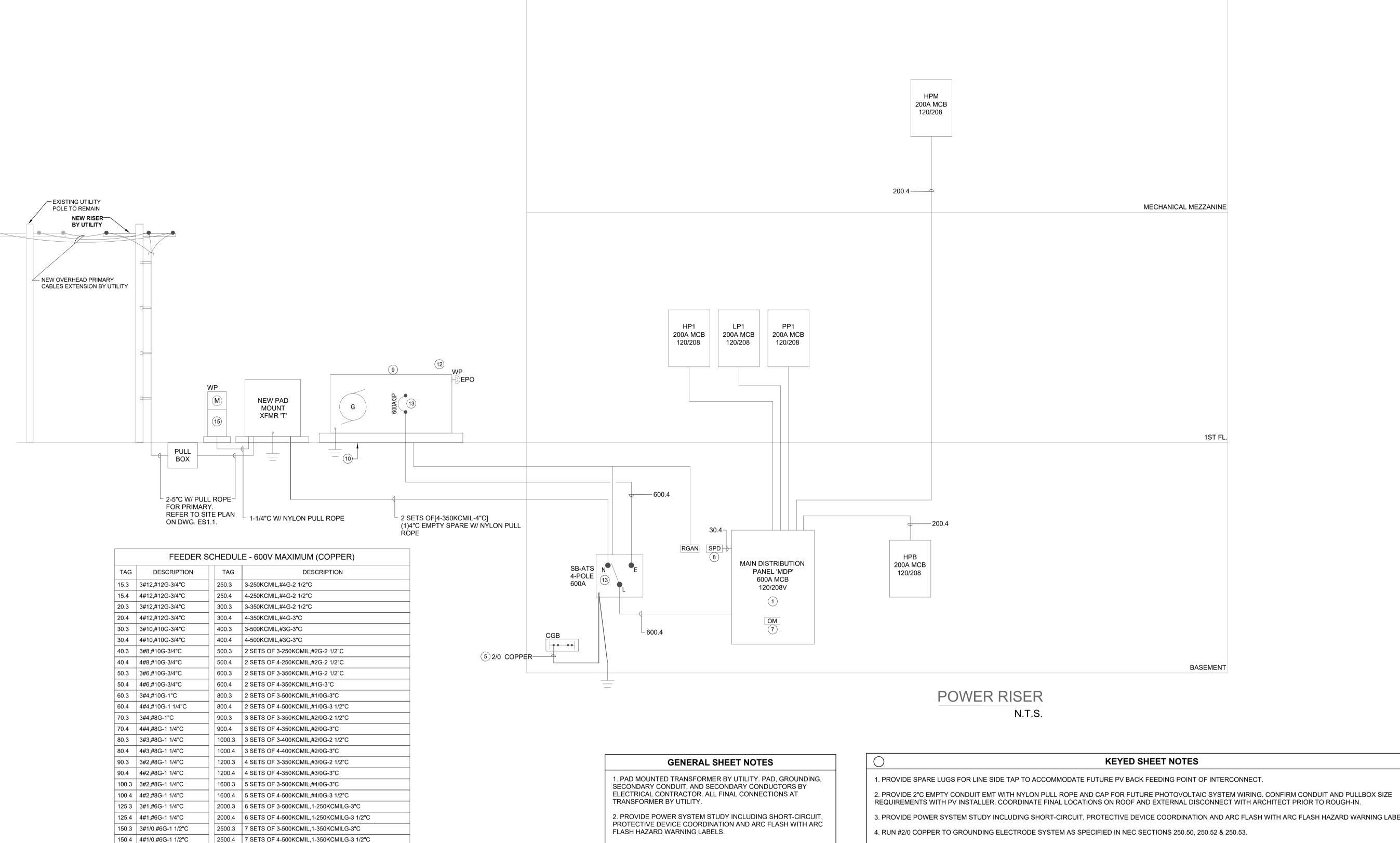
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PROJECT NUMBER: 2023102 SUBMISSION



175.3 3#2/0,#6G-2"C

175.4 4#2/0,#6G-2"C

200.3 3#3/0,#6G-2"C

200.4 4#3/0,#6G-2"C

225.3 3#4/0,#4G-2"C

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225.4 4#4/0,#4G-2 1/2"C

3000.3 8 SETS OF 3-500KCMIL,1-400KCMILG-3"C

3000.4 8 SETS OF 4-500KCMIL,1-400KCMILG-3 1/2"C

4000.3 | 11 SETS OF 3-500KCMIL,1-500KCMILG-3"C

4000.4 11 SETS OF 4-500KCMIL,1-500KCMILG-3 1/2"C

3. COORDINATE WITH UTILITY AND OWNER FOR SCOPE OF WORK REQUIREMENTS FOR NEW SERVICE AND SHUTDOWNS. E.C. SHALL CARRY ALL ASSOCIATED COSTS FOR UTILITY BACK CHARGES. 4. THE WHOLE BUILDING ELECTRICAL SYSTEM WILL BE BACKED UP ON THE GENERATOR.

5. WIRING METHOD FOR ALL SYSTEMS SHALL BE IN CONDUIT OR METAL RACEWAY UNLESS OTHERWISE NOTED. MC CABLE MAY BE ALLOWED WITH PRE-APPROVAL OBTAINED FROM THE DIVISION. WHERE MC CABLE IS APPROVED FOR USE, ALL HOMERUNS SHALL BE IN CONDUIT.

REQUIREMENTS WITH PV INSTALLER. COORDINATE FINAL LOCATIONS ON ROOF AND EXTERNAL DISCONNECT WITH ARCHITECT PRIOR TO ROUGH-IN.

3. PROVIDE POWER SYSTEM STUDY INCLUDING SHORT-CIRCUIT, PROTECTIVE DEVICE COORDINATION AND ARC FLASH WITH ARC FLASH HAZARD WARNING LABELS.

5. PROVIDE CUSTOMER POWER METER TO RECORD CONSUMPTION, DEMAND, AND POWER FACTOR. METER SHALL HAVE LAN OR BACNET CONNECTION TO TRANSMIT

DATA TO THE BUILDING AUTOMATION SYSTEM 'BAS' FOR REMOTE MONITORING. FINAL CONNECTION TO BAS BY ATC. 6. PROVIDE SURGE PROTECTION DEVICE 'SPD' WITH CIRCUIT BREAKER AS REQUIRED.

7. 150KW/187.5KVA, 120/208V, 3\(\phi\), 4W LIQUID PROPANE GENERATOR IN WEATHERPROOF SOUND ATTENUATED ENCLOSURE (LEVEL 2). PROVIDE SERVICE ENTRANCE RATED OUTPUT CIRCUIT BREAKERS AND 8-POSITION LOAD CENTER WITH GENSET. PROVIDE WITH INTERIOR CABINET UNIT HEATER (5000W) PER NFPA 110-5.3.5 TO

MAINTAIN 40°F AS REQUIRED. INCLUDE MOTORIZED DAMPERS AND ENCLOSURE LED LIGHT KIT. 8. PROVIDE ALL REQUIRED REINFORCEMENT AND FORMWORK FOR CONCRETE PAD. REINFORCING BARS: ASTM A 615/A 615M, GRADE 60 AND BAR SUPPORTS INCLUDING

BOLSTERS, CHAIRS, SPACES AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS. CONFIRM WITH MANUFACTURER'S RECOMMENDATIONS SIZING AND STRENGTH OF PAD FOR WEIGHT OF GENERATOR.

9. PROVIDE (2#12-1"C) FOR ENGINE START, (2#10,#10G-1"C) FOR ENGINE COOLANT HEATERS/VENT DAMPERS, (2#10,#10G-1"C) FOR BATTERY CHARGER, AND (UL LISTED 4

TWISTED PAIR-1"C) FOR NETWORK WIRING TO REMOTE ANNUNCIATOR. SHORE POWER AND CONTROL/SIGNAL WIRING SHALL BE COORDINATED WITH SELECTED MANUFACTURER, PROVIDED AND INSTALLED BY E.C..

10. SERVICE ENTRANCE RATED 800A, 120/208V, 3PH, 4W, 4-POLE, OPEN TRANSITION AUTOMATIC TRANSFER SWITCH. INCLUDE NORMAL SIDE SERVICE ENTRANCE RATED 600A LSIG MAIN IN-LINE CIRCUIT BREAKER. PROVIDE SURGE PROTECTION DEVICE. PROVIDE SPARE LUGS FOR LINE SIDE TAP TO ACCOMMODATE FUTURE PV BACK

FEEDING POINT OF INTERCONNECT. 11. TRANSFORMER RATED PEDESTAL METER. METER SOCKET FURNISHED BY UTILITY AND INSTALLED BY ELECTRICAL CONTRACTOR.

**PROGRESS SET** 

**92425**/2025

**SHEET REVISION SCHEDULE:** No. DATE

ELECTRICAL RISER - POWER

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### **GENERAL SHEET NOTES**

1. PROVIDE ALL WIRING, TERMINATIONS (UNLESS OTHERWISE NOTED) AND TEST ALL CABLES IN ACCORDANCE WITH EIA AND TIA STANDARDS. PROVIDE REPORT. TERMINATION PROTOCOL SHALL BE VERIFIED WITH OWNER FOR VOICE OVER INTERNET PROTOCOL (VOIP) PRIOR TO INSTALL.

2. ALL CABLES SHALL BE CLEARLY LABELED AT BOTH ENDS WITH DESCRIPTION OF DEVICE. COORDINATE LABELING CONVENTIONS OF JACKS AND CABLES WITH OWNER'S I.T. PERSONNEL. A 10' SERVICE LOOP SHOULD BE PROVIDED AT NETWORK CLOSET END AND A 1' SERVICE LOOP PROVIDED AT THE DEVICE END.

3. PROVIDE CABLE TRAY ABOVE ACCESSIBLE CEILINGS OR IN CONDUIT WHERE NOT ACCESSIBLE. ALL CABLING SHALL BE CONCEALED. ALL EMPTY CONDUITS SHALL HAVE NYLON PULL

4. ALL DEVICE LOCATIONS SHALL HAVE A FOUR INCH SQUARE BACK BOX AT EACH LOCATION OF A TELEPHONE/DATA/CATV OUTLET. PROVIDE 1-GANG REDUCER PLATES AS REQUIRED. RUN A ONE INCH CONDUIT AND PULL STRING FROM EACH BACK BOX TO WITHIN 6" OF CABLE TRAY ABOVE ACCESSIBLE CEILING. PROVIDE CABLE AS INDICATED FROM DEVICE TO HEAD-END (RESPECTIVE FLOOR DATA CLOSET).

5. PROVIDE INSULATED BUSHINGS ON THE ENDS OF ALL CONDUITS WITH BELL-CAP TYPE BUSHING AT TRAY END.

6. ALL CABLE SHALL BE LAID AT LEAST 18-INCHES AWAY FROM ELECTRICAL SERVICES INCLUDING POWER, LIGHTING, AC SECURITY SYSTEMS, AND OTHER SERVICES CREATING HARMONICS.

### **KEYED SHEET NOTES**

1. PROVIDE CAT6 48-PORT UNIVERSAL RJ45/110 PATCH PANELS AS REQUIRED FOR QUANTITY OF DATA DROPS WITH 20% SPARE CAPACITY. PROVIDE ALL INFRASTRUCTURE INCLUDING NETWORK SUPPORT RACKS, CABLE/LADDER TRAY, GROUNDING/BONDING, POWER RECEPTACLES AND PLYWOOD BACKBOARD AS REQUIRED. UPS UNITS ARE PROVIDED BY OTHERS. PROVIDE 3/4"C FIRE RATED AC PLYWOOD PAINTED BLACK ALL AROUND DATA ROOMS. CONTRACTOR SHALL COORDINATE WITH OWNER'S I.T. PERSONNEL FOR EXACT REQUIREMENTS PRIOR TO PURCHASING AND CONSTRUCTION.

2. (4) EMPTY 4"C (EMT) W/ NYLON PULLSTRING. PROVIDE INSULATED BUSHINGS AT CONDUIT ENDS. PROVIDE FIRE STOPPING SEALANT AROUND CONDUIT PENETRATIONS AS REQUIRED. CONDUIT SLEEVES SHALL BE UTILIZED FOR LOW VOLTAGE CABLES ONLY. MAINTAIN MIN. 12" SEPARATION BETWEEN LOW VOLTAGE AND LINE VOLTAGE CABLES.

3. ALL HORIZONTAL CABLING FOR DATA, FROM THE FACEPLATE JACK TO PATCH PANEL, SHALL BE FURNISHED AND INSTALLED AS RISER RATED, NON-PLENUM, SOLID CATEGORY 6 CMR CABLE, EQUAL TO HUBBELL PREMISE WIRING #C6RRB. DATA (COLORED BLUE) AND VOICE (COLORED YELLOW). ALL CONCEALED WIRING ABOVE ACCESSIBLE SHALL BE RUN IN CABLE TRAY AND WALL MOUNTED CABLE CATS, ALL OTHER CABLING SHALL BE INSTALLED IN 3/4"C EMT MINIMUM. 'COLORED ORANGE' FOR WIRELESS ACCESS POINTS FROM OUTLET TO PATCH PANEL. '2D' DENOTES TWO DATA RJ45 JACKS AND TWO CATEGORY 6 UTP CABLES. WIRELESS ACCESS POINTS SHALL HAVE TWO DATA DROPS PER DEVICE LOCATION. PROVIDE BISUIT JACK FOR ACCESS POINTS.

4. ALL FIBER STRANDS SHALL BE TERMINATED WITH STANDARD CERTIFIED CONNECTORS, EQUAL TO HUBBELL PREMISE WIRING SPLICE CASSETTES #OCSPLCD12M4 FOR MULTIMODE.

5. ALL HORIZONTAL CABLING SHALL BE COLLECTIVELY GROUPED TO IDENTIFY AREAS OF SERVICE. FIRE RATED WALL PENETRATIONS SHALL BE MINIMIZED, BY COLLECTIVELY INSTALLING CABLES AS DEEMED APPROPRIATE, THRU METAL WALL AND FLOOR SLEEVES. PROVIDE FIRE-STOPPING AT ALL PENETRATIONS MADE FOR CABLE INSTALLATION.

6. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL HOMERUNS FROM DEVICE TO RESPECTIVE FLOOR IDF CLOSET.
CONTRACTOR SHALL TERMINATE ALL HOMERUNS AT DEVICE END AND AT PATCH PANELS WITHIN IDF CLOSET. PROVIDE SERVICE LOOPS AT BOTH PATCH PANEL AND DEVICE END. PROVIDE 10-FT OF EXTRA LENGTH, LOOPED IN THE IDF CLOSET TO ALLOW FOR FUTURE ADJUSTMENT OF PATCH PANELS. CERTIFY AND TEST ALL CABLES IN ACCORDANCE WITH TIA/EIA STANDARDS. PROVIDE REPORT TO OWNER. WIRE PUNCH/TERMINATION PROTOCOL SHALL BE VERIFIED WITH OWNER FOR VOICE OVER INTERNET PROTOCOL (VOIP) PRIOR TO INSTALL. COORDINATE WITH OWNER'S I.T. PERSONNEL FOR LABELING CONVENTIONS OF JACKS AND CABLE.

7. PROVIDE BONDING CONDUCTOR SIZED IN ACCORDANCE WITH TIA-607-B, SECTION 6.3.2 & TABLE 1 -TYPICAL. PROVIDE MINIMUM #4/0 CU IN 1"C PVC SCH. 40.

8. TYPICAL IT NETWORK RACKS AND ASSOCIATED WIRING SHALL CONSIST OF THE FOLLOWING:
A. MDF - ONE EMPTY ACTIVE BAY, FOUR POST RACK, EQUAL TO A HUBBELL #SF841936.
B. ONE PASSIVE BAY, TWO POST RACK WITH VERTICAL MANAGEMENT INCLUDING FLOOR ANCHOR & MOUNTING KITS,

B. ONE PASSIVE BAY, TWO POST RACK WITH VERTICAL MANAGEMENT INCLUDING FLOOR ANCHOR & MOUNTING KITS, EQUAL TO A HUBBELL #HPW84RR19, (2)#VME614C1.
C. IDF - ONE FIBER TERMINATION PANEL EQUAL TO A HUBBELL #FCR1U3SP. MDF - TWO FIBER TERMINATION PANELS EQUAL TO A HUBBELL #FCR1U3SP.
D. 6 STRAND MM FIBER MODULE, LC STYLE, HUBBELL

#OCSPLCD12M4.
E. 6 STRAND SM FIBER MODULE, LC STYLE, HUBBELL #.
F. ONE 1-3/4" CABLE MANAGER JUST BELOW THE FIBER
ENCLOSURE, HUBBELL #HM24C.
G. 48 PORT CAT6 PATCH PANELS WITH REAR CABLE
MANAGEMENT, HUBBELL #HPJ648, QUANTITY AS INDICATED IN DETAILS.

DETAILS.
H. ONE 1-3/4" CABLE MANAGER JUST BELOW THE FIBER ENCLOSURE, HUBBELL #HM24C.
I. EACH RACK SHALL BE EQUIPPED WITH A POWER STRIP AND SURGE SUPPRESSOR, HUBBELL #PH20A10S.

9. PROVIDE (2)6-STRAND OM4 ARMORED MULTI-MODE 50/125 MICRON FIBER OPTIC CABLE AND (6) CAT6 RISER CABLES (HFCD15006P4) FOR INTERCONNECTION BETWEEN MDF AND EACH IDF CLOSET. TERMINATE ALL FO CABLE STRANDS ON SPLICE CASSETTES WITH UNKEYED DUPLEX LC TYPE CONNECTORS.

10. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND CONFIGURATION OF FLOOR BOX WITH OWNER PRIOR TO ROUGH-IN AND PURCHASING OF DEVICE. PROVIDE (2) DUPLEX RECEPTACLES, (1V3D) DATA PORTS, (1) HDMI AND (1) USB PORT.

11. PROVIDE (3)4"C EMT FROM COMM. EQUIP. ROOM UP TO ROOF

FOR RADIO ANTENNA EQUIPMENT. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH OWNER PRIOR TO

ROUGH-IN.

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ELECTRICAL RISER - TELECOM

E5.2

**KEYED SHEET NOTES** 1. PROVIDE KEY BOX AT MAIN ENTRANCE. ELECTRICAL CONTRACTOR SHALL PURCHASE DIRECTLY THROUGH KNOX BOX, BUT KEY BOX MUST MEET THE FIRE DEPARTMENT REQUIREMENTS. VERIFY LOCATION WITH FIRE DEPARTMENT. 2. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKER HANDLE-LOCK ON POWER CIRCUITS. HANDLE LOCK SHALL ALLOW THE CIRCUIT BREAKER TO TRIP, BUT PREVENT SWITCHING OF THE CIRCUIT BREAKER TO THE "OFF" POSITION. 3. PROVIDE SMOKE DETECTOR IN VICINITY OF FIRE ALARM CONTROL PANEL, REMOTE ANNUNCIATOR, POWER BOOSTERS, AND ALL FIRE ALARM TERMINAL BOXES. SMOKE DETECTORS IN ELEVATOR LOBBY SHALL BE PROGRAMMED AND/OR PROVIDED WITH ELEVATOR RECALL CAPABILITY. 4. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE. 5. ALL SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT OR (FIRE ALARM RATED FPLR FLEXIBLE METALLIC CABLE TYPE MC CABLE WHERE CONCEALED) AND IN ACCORDANCE WITH EQUIPMENT SUPPLIER'S APPROVED SHOP DRAWINGS AND WIRING DIAGRAMS. 6. RISER DIAGRAM DOES NOT SHOW ENTIRE SYSTEM. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL SYSTEM 7. TO AUXILIARY CONTACTS IN RESPECTIVE AIR-HANDLING UNIT STARTER FOR UNIT SHUTDOWN ON ALARM. DUCT SMOKE DETECTOR SHALL BE PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE INSTALLED AS IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE: · SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM, IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT AND APPLIANCES. · WHERE RETURN AIR RISERS SERVE TWO OR MORE STORIES AND SERVE ANY PORTION OF A RETURN AIR SYSTEM HAVING A DESIGN CAPACITY GREATER THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED AT EACH STORY. SUCH SMOKE DETECTORS SHALL BE LOCATED UPSTREAM OF THE CONNECTION BETWEEN THE RETURN AIR RISER AND ANY AIR DUCTS OR PLENUMS. · SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY AIR SYSTEM FOR ALL MAKE-UP AIR UNITS WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM. 8. PROVIDE SURFACE 24 VOLT DC CARBON MONOXIDE ALARM DETECTOR.

PROGRAMMED TO OPEN UPON ACTIVATION OF SMOKE DETECTOR AT ELEVATOR MACHINE ROOM, OR AS DIRECTED PROVIDE CONTROL WIRING FROM DAMPER MOTOR TO FIRE ALARM TERMINAL CABINET.

10. PROVIDE REMOTE ALARM INDICATOR OVER DOOR OF EACH LOCKED ROOM THAT CONTAINS A SMOKE OR HEAT DETECTOR WHETHER OR NOT SHOWN ON THE FLOOR PLANS: SUCH AS, ELEVATOR MACHINE ROOMS, ELECTRIC ROOMS, MECHANICAL ROOMS, IT ROOMS, ETC.

9. PROVIDE 120VOLT POWER AND CONTROL MODULE FOR CONTROL OF SMOKE DAMPER AT TOP OF ELEVATOR SHAFT. DAMPER SHALL BE

OR NOT SHOWN ON THE FLOOR PLANS: SUCH AS, ELEVATOR MACHINE ROOMS, ELECTRIC ROOMS, MECHANICAL ROOMS, IT ROOMS, ETC.

11. ELECTRICAL CONTRACTOR SHALL PROVIDE 120VOLT POWER AND CONTROL WIRING TO ALL SMOKE/FIRE DAMPERS. REFER TO ELECTRICAL DRAWINGS FOR POWER WIRING REQUIREMENTS. "1" NEXT TO SMOKE/FIRE DAMPER INDICATES SMOKE ZONE. PROVIDE A MONITOR MODULE, CONTROL MODULE AND RELAY MODULE FOR EACH GROUP OF SMOKE/FIRE DAMPERS. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY OF SMOKE DAMPERS, AND SMOKE ZONES.

12. PROVIDE A 20AMP, 120VOLT, 1 PHASE SURGE PROTECTOR EQUAL TO MCG SURGE PROTECTION MODEL NO. 415. SURGE PROTECTOR SHALL BE INSTALLED BETWEEN THE CIRCUIT BREAKER IN THE PANEL AND THE FIRE ALARM PANEL, AND IN ACCORDANCE WITH MANUFACTURER'S WIRING RECOMMENDATIONS.

13. SECURITY/DOOR ENTRY SYSTEM SHALL BE CONNECTED TO FIRE ALARM SYSTEM VIA A CONTROL MODULE/RELAY. SELECTIVE SECURED DOORS SHALL RELEASE UPON ACTIVATION OF ALARM. COORDINATE WITH SECURITY AND DOOR HARDWARE CONTRACTORS.

14. CELLULAR/IP COMMUNICATOR -THE FACP SHALL TRANSMIT AN ALARM SIGNAL TO THE LOCAL FIRE DEPARTMENT VIA A CELLULAR/IP COMMUNICATOR THAT MEETS THE REQUIREMENTS OF THE DERRY FIRE DEPARTMENT. TWO TRANSMISSION METHODS SHALL BE EMPLOYED. COMMON METHODS ARE AS FOLLOWS:

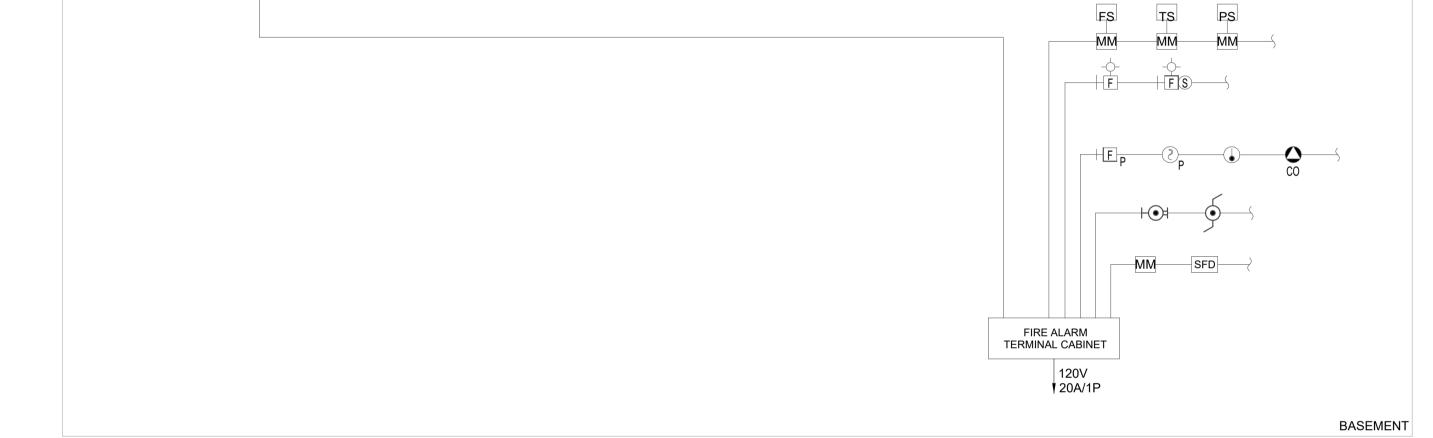
DACT CELLULAR COMMUNICATOR

DACT VIA LOCAL INTERNET PROTOCOL AS BACK-UP.
DUAL PHONE LINES AS BACK-UP.

15. LIGHTING CONTROL SYSTEM SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM SO THAT WHEN IN ALARM STATUS, THE FIRE ALARM SYSTEM OVERRIDES DIMMING SYSTEM AND LIGHTS ARE BROUGHT UP TO 100% OUTPUT.

16. PA/SOUND/ASSISTED LISTENING/MEDIA SYSTEM SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM SO THAT WHEN IN ALARM STATUS, THE FIRE ALARM SYSTEM OVERRIDES MUSIC SYSTEM AND MUTES THE SOUND SYSTEM.

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FIRE ALARM RISER N.T.S.

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 FIELD COORDINATE QUANTITIES AND LOCATIONS OF ALARM SWITCHES WITH FIRE PROTECTION

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Building Services Division
Bedford, NH
MEP/FP Engineers
603.444.6578
Project #530419

SEAL:

CITY OF CARIBOU, MAINE CARIBOU POLICE DEPARTMENT

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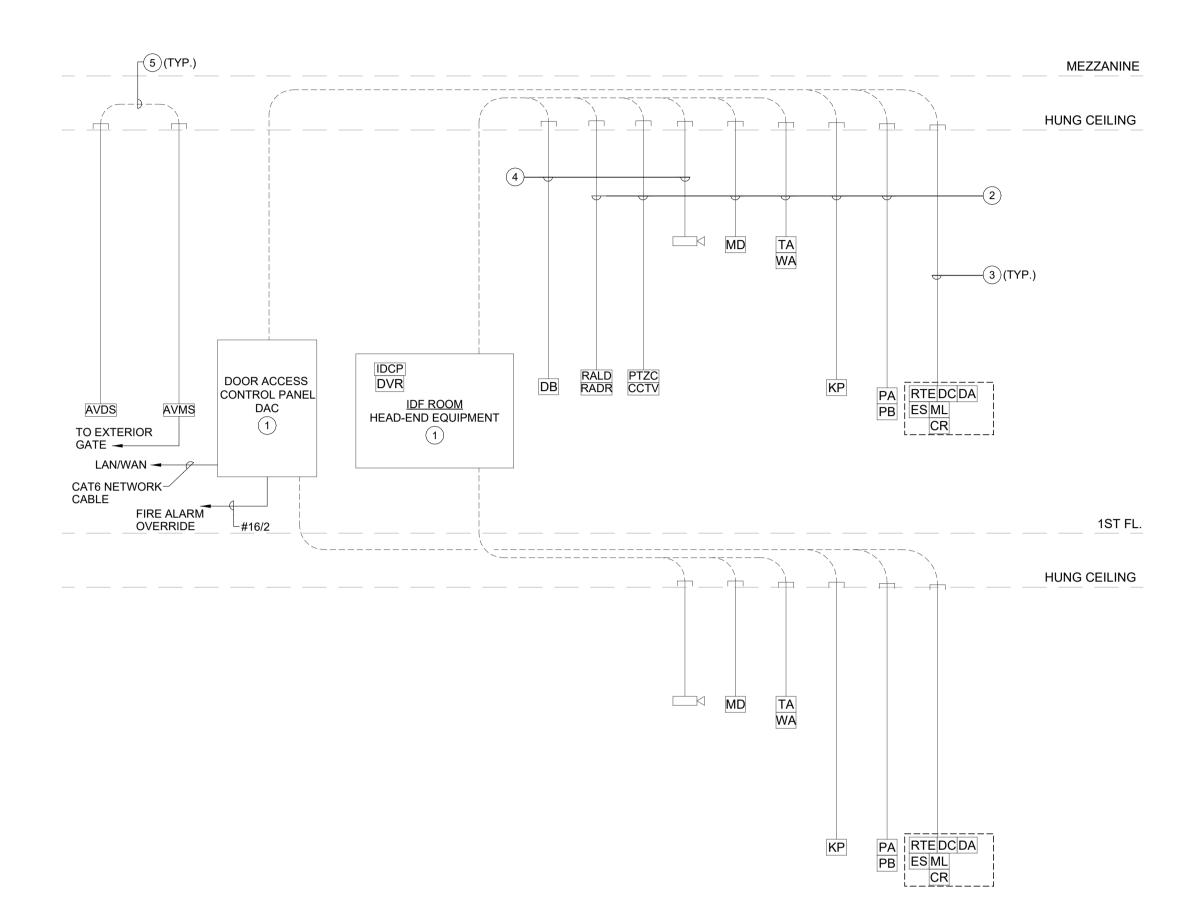
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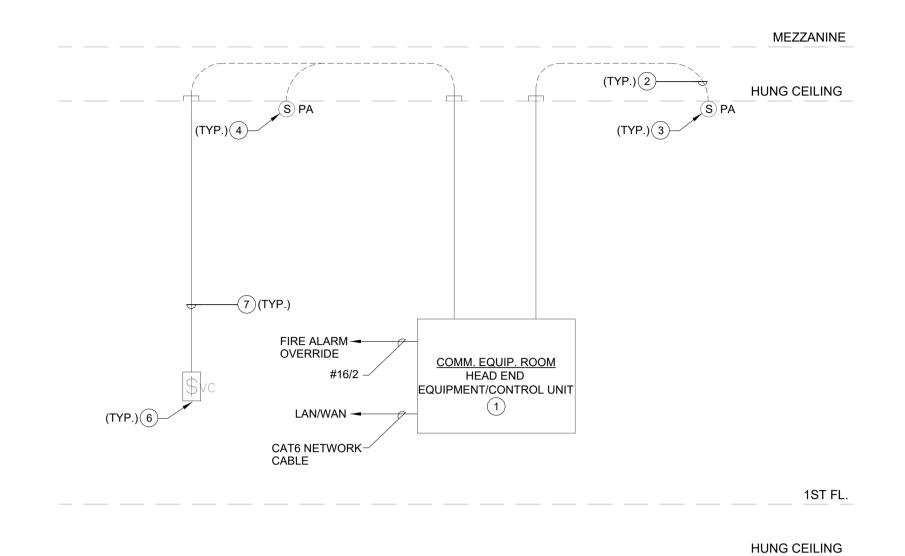
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ELECTRICAL RISER - FIRE ALARM





HUNG CEILING

BASEMENT

BASEMENT

# SECURITY SYSTEM RISER

### KEYED SHEET NOTES

1. PROVIDE CAT6 48PORT UNIVERSAL RJ45/110 PATCH PANEL AND ASSOCIATED MOUNTING BRACKETS FOR SECURITY NETWORK RACK. PROVIDE ALL INFRASTRUCTURE INCLUDING NETWORK RACK, CABLE TRAY/J-HOOKS, GROUNDING/BONDING, POWER RECEPTACLES AND PLYWOOD BACKBOARD AS REQUIRED. E.C. SHALL COORDINATE WITH OWNER'S SECURITY CONTRACTOR FOR EXACT REQUIREMENTS AND LOCATION OF HEAD-END EQUIPMENT PRIOR TO PURCHASING AND CONSTRUCTION.

2. PROVIDE SECURITY CABLES AS REQUIRED. CCTV (COLORED WHITE) AND ACCESS CONTROL (COLORED TBD). E.C. SHALL COORDINATE WITH OWNER'S SECURITY CONTRACTOR FOR EXACT REQUIREMENTS, WIRING SPECIFICATIONS AND LOCATION OF HEAD-END EQUIPMENT PRIOR TO PURCHASING AND CONSTRUCTION.

3. 18/4 NON-SHIELDED PLENUM CABLE CMP AND COMPOSITE CABLE CMP. VERIFY CABLE REQUIREMENTS AND LOCATIONS WITH OWNER'S SECURITY VENDOR.

4. CATEGORY 6 PLENUM CABLE CMP DROP AT EACH CAMERA DURRESS BUTTON

4. CATEGORY 6 PLENUM CABLE CMP DROP AT EACH CAMERA, DURRESS BUTTON, AND TEMPERATURE/WATER DETECTION ALARM LOCATION. LEAVE 30' OF SERVICE LOOP AT CAMERA LOCATION.

5. WIRING AS REQUIRED BY THE MANUFACTURER. INTERCOM MASTER STATION EQUAL TO AIPHONE #JP-DVF, INTERCOM SUB-MASTER STATION EQUAL TO AIPHONE #JP-4HD, AND INTERCOM DOOR STATION EQUAL TO AIPHONE #JP-DVF. PROVIDE ALL MATERIALS AND EQUIPMENT NEEDED FOR A COMPLETE AND OPERATIONAL VIDEO INTERCOM SYSTEM, WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO VIDEO MASTER STATION, VIDEO SUB-STATION, POWER SUPPLIES, DOOR RELEASE ADAPTORS, LONG DISTANCE ADAPTORS, BACK BOXES, CONDUIT, AND WIRING. ALL LOW VOLTAGE WIRING SHALL BE SIZED BY AND THE MANUFACTURER.

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# PUBLIC ADDRESS SYSTEM RISER N.T.S.

KEYED SHEET NOTES

1. PROVIDE ALL REQUIRED SYSTEM COMPONENTS AND HEAD-END EQUIPMENT FOR FULLY FUNCTIONAL PUBLIC ADDRESS SYSTEM. RISER DOES NOT SHOW ALL NECESSARY COMPONENTS AND WIRING. CONTRACTOR SHALL COORDINATE WITH OWNER'S VENDOR (TELEPHONE AND NETWORK TECHNOLOGIES - TNT) FOR ALL 120VAC POWER, LOW VOLTAGE WIRING, AND INTEGRAL COMPONENTS FOR A COMPLETE OPERATING SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

2. 18/2 PLENUM RATED SPEAKER WIRE. VERIFY WIRING REQUIREMENTS WITH OWNER'S VENDOR.3. RECESS MOUNT 8" CEILING PAGING SPEAKERS. INCLUDE BACKBOX AND CEILING TILE MOUNTING SUPPORT AS REQUIRED.

4. RECESS MOUNT 4" CEILING PAGING SPEAKERS. INCLUDE BACKBOX AND CEILING TILE MOUNTING SUPPORT AS REQUIRED.

5. ALL CABLES SHALL BE CLEARLY LABELED WITH DESCRIPTION OF DEVICE LOCATION. PROVIDE SERVICE LOOPS AT THE HEAD-END AND DEVICE LOCATIONS. TERMINATE AND TEST ALL CABLES AT DEVICE AND HEAD-END IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE ALL REQUIRED SOFTWARE, PROGRAMMING, TRAINING, AND COMMISSIONING FOR 'PA' SPEAKER SYSTEM.

6. PROVIDE ATTENUATORS/VOLUME CONTROL STATIONS AND WIRING. LOCATE AND LABEL VOLUME CONTROL STATIONS IN RESPECTIVE FLOOR IDF CLOSET.

7. 18/2 PLENUM RATED SPEAKER WIRE. VERIFY WIRING REQUIREMENTS WITH OWNER'S VENDOR.

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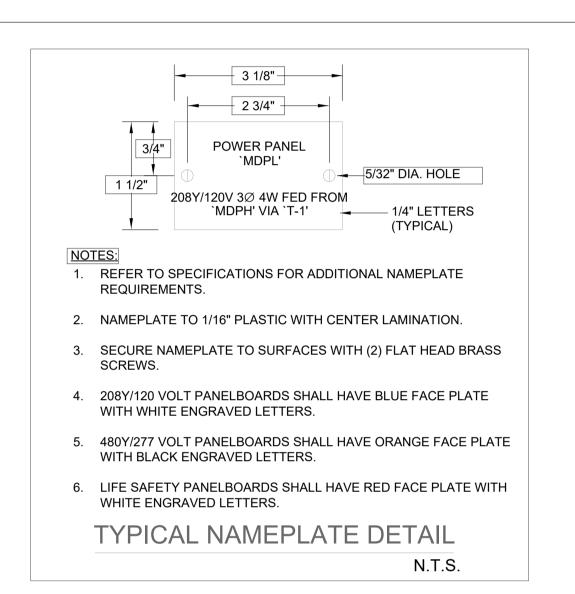
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ELECTRICAL DETAILS

SHEET NUMBER: **E5.4** 

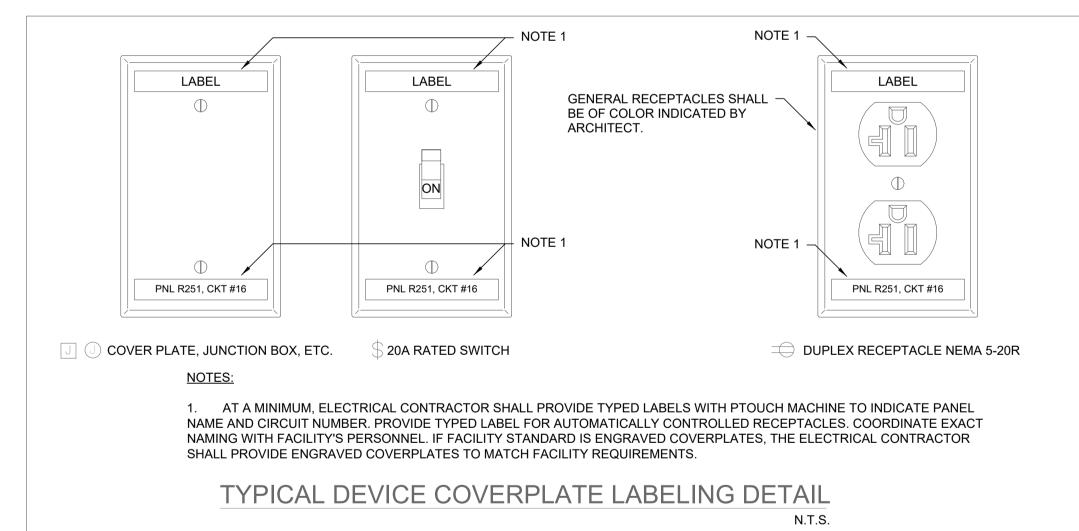


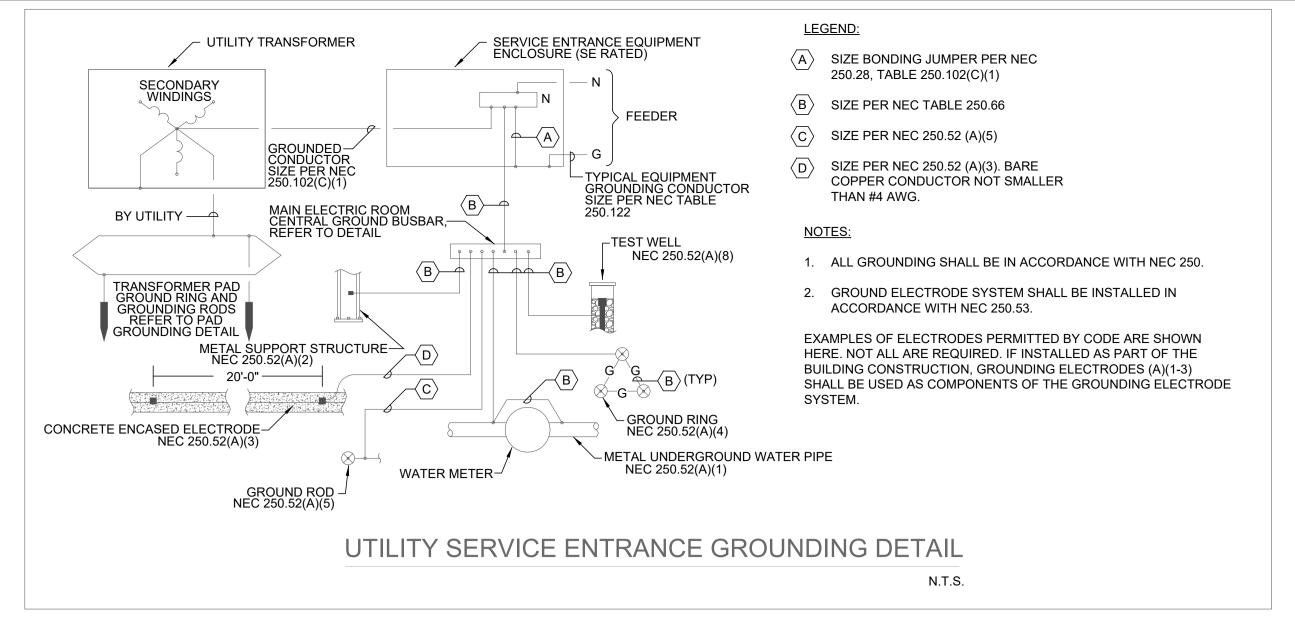
ALL DEVICES SHOWN ON THIS DETAIL, MAY NOT BE PRESENT ON THIS PROJECT. THIS IS A TYPICAL DEVICE

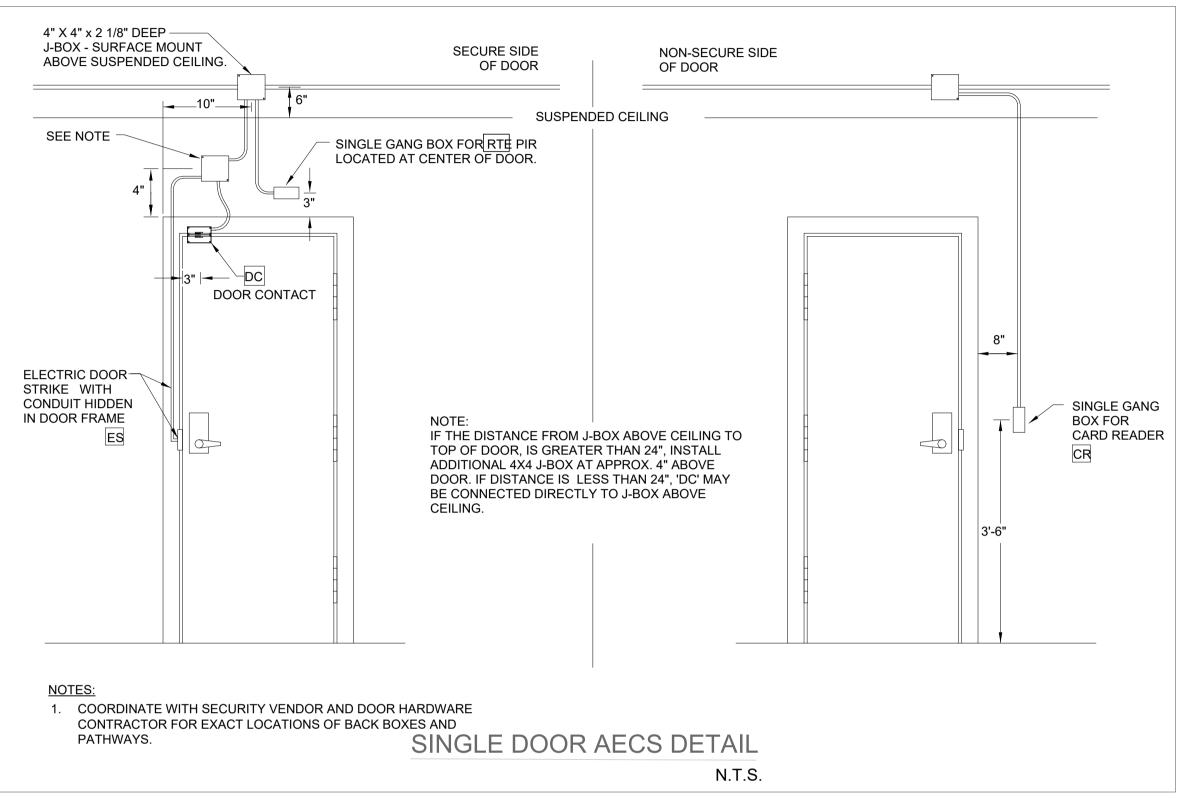
TYPICAL DEVICE MOUNTING HEIGHT DETAIL

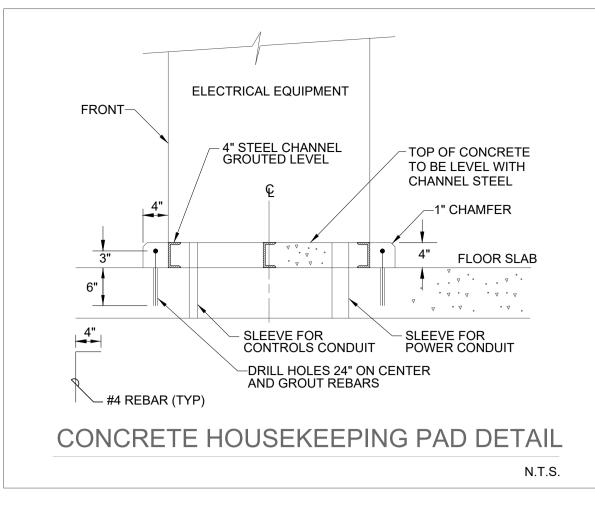
MOUNTING HEIGHT DETAIL, EACH PROJECT MAY HAVE MORE OR LESS VARIETY OF DEVICES AND SYSTEMS.

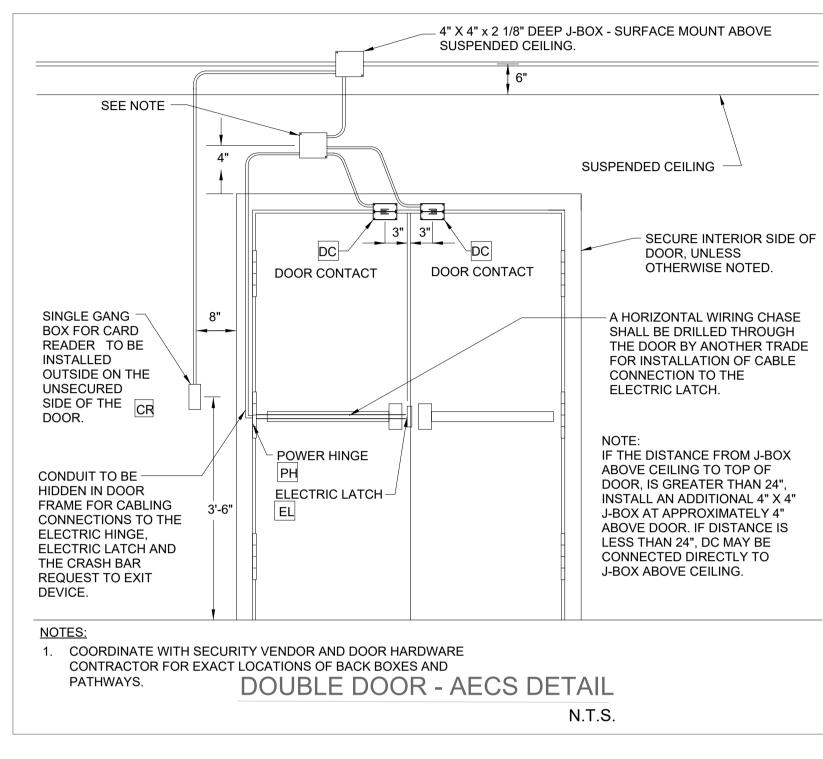
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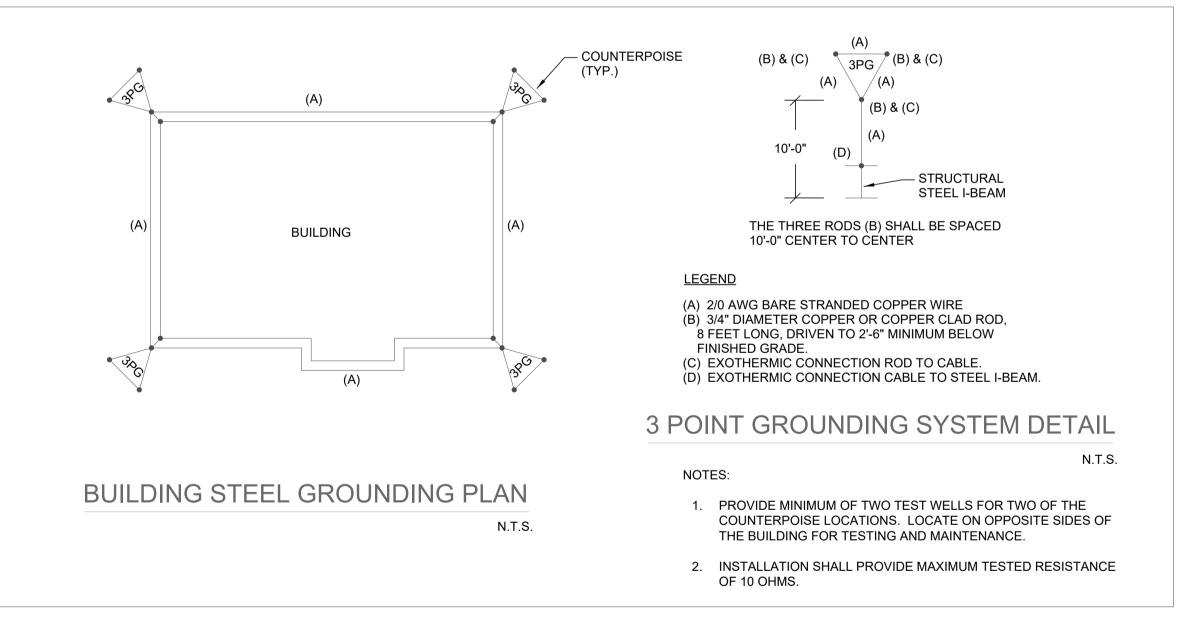


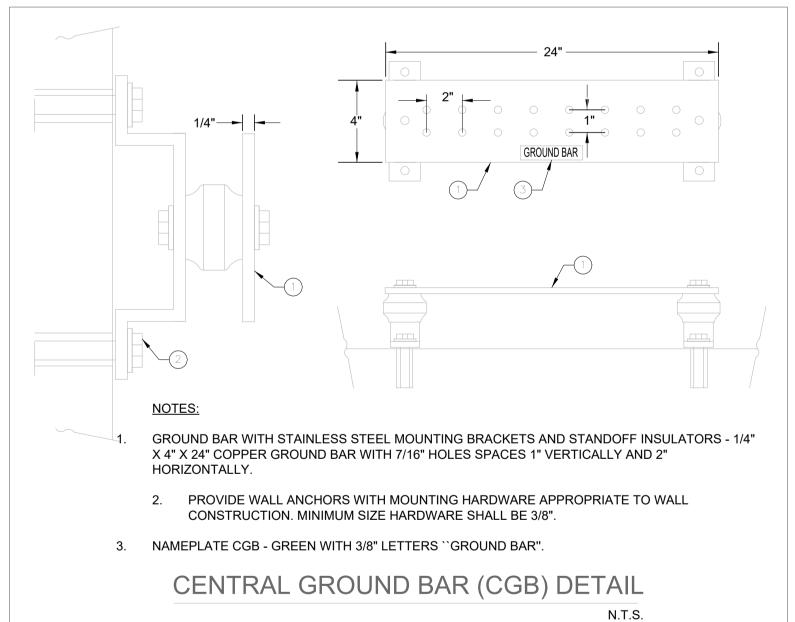












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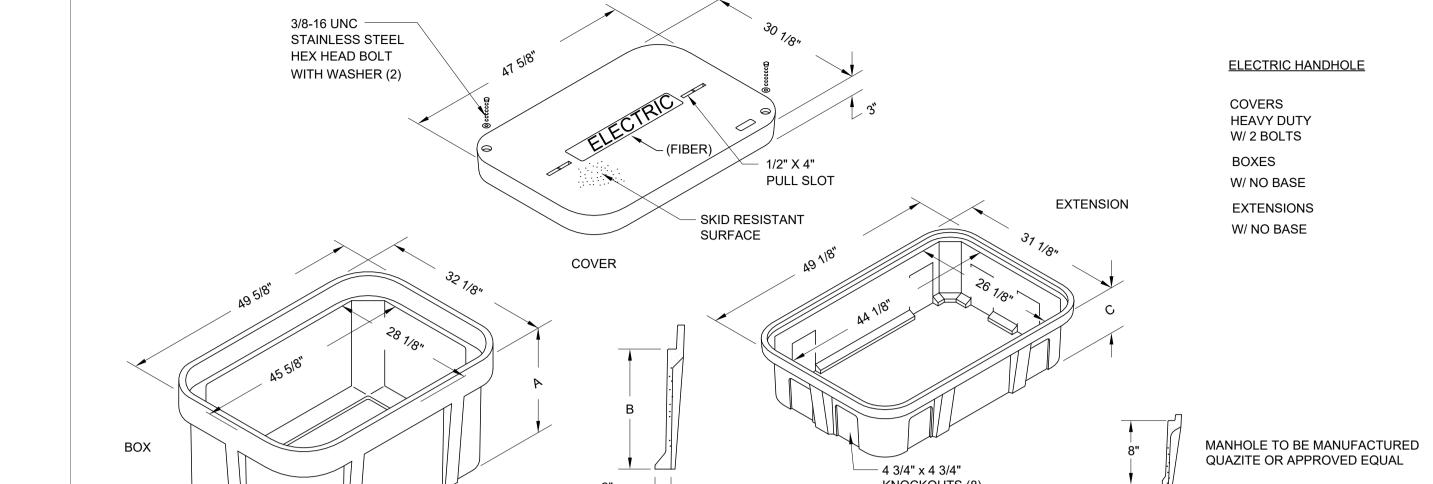




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INT - EXH

EMERGENCY GENERATOR

(1) POWER WIRING, NORMAL SOURCE TO A.T.S.

(2) POWER WIRING, GENERATOR OUTPUT TO A.T.S.

(3) POWER WIRING, TO EMERGENCY DISTRIBUTION PANEL

 $\langle 7 \rangle$  CONTROL WIRING, ENGINE START CIRCUIT (2#14-1"C)

 $\langle 8 \rangle$  SIGNAL WIRING TO REMOTE ANNNUNCIATOR (2#10,17#14-1"C)

 $\langle 9 \rangle$  SIGNAL WIRING TO REMOTE ANNNUNCIATOR (2#10,14#14-1"C)

 $\langle$  4  $\rangle$  POWER WIRING, 120V NORMAL CIRCUIT INPUT TO BATTERY CHARGER (2#12-1"C)

 $\langle$  5  $\rangle$  POWER WIRING, ENGINE JACKET WATER HEATER AND VENT DAMPERS (2#10,2#12-1"C)

TYPICAL GENERATOR WIRING DIAGRAM DETAIL

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 $\langle$  6  $\rangle$  POWER WIRING, BATTERY CHARGER OUTPUT CONNECTION TO BATTERY (2#10-1"C)

2" (51 mm) KNOCKOUTS (8) **→** D TYPICAL ELECTRIC HANDHOLE DETAILS N.T.S.

> THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THIS CONCRETE GENERATOR PAD. THE CONCRETE SHALL BE 5000 PSI AIR ENTRAINED. ALL ─ REINFORCE WITH #6 REBAR EVERY 16" ON CENTER CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE. NOTE: FASTEN GENERATOR AND ENCLOSURE TO SLAB AS PER #5 AT 24" MANUFACTURER'S RECOMMENDATIONS. ON CENTER CONCRETE SLAB RIGID PAVEMENT A #6 REBAR REINFORCED 12" CONCRETE SLAB WITH 2 LAYERS OF 6X6 - W1.4 X W1.4 WWF CONTINUOUS ALL SIDES COMPACTED CRUSHED BANK RUN-#6 REBAR REINFORCED GRAVEL BELOW SLAB. FOOTINGS CONTINUOUS ALL SIDES SIT ON UNDISTURBED SOIL. <u>PLAN VIEW</u> GENERATOR PAD DETAIL SECTION

FINISH GRADE

**BRANCH CIRCUITS -**

ELECTRIC SERVICE -

CATV (SEE NOTE #2)

TELEPHONE (SEE NOTE #2) -

FUEL OR — — WATER LINE

BE MAINTAINED. SEE NOTE #1 ABOVE.

PRIMARY -

BACKFILL SHALL BE THOROUGHLY COMPACTED IN 6 INCH LAYERS.

STEEL. PROVIDE 3/8" NYLON PULL ROPE IN ALL EMPTY CONDUITS.

CEMENTED. STEEL FITTINGS SHALL BE SEALED WITH COMPOUND.

COMPACTED SAND BACKFILL

(SEE NOTE #1)

1. ALL CONDUITS SHALL BE ENCASED IN SELECT SAND BACKFILL, WITH THE SAME CLEARANCE DIMENSIONS AS SHOWN AROUND THE PRIMARY CONDUIT. SELECT SAND BACKFILL SHALL

CONSIST OF FINE GRANULAR MATERIAL OF WHICH 100% SHALL PASS THROUGH A 1/4" SIEVE.

2. TELEPHONE, CATV AND FIRE ALARM CONDUITS MAY RUN IN THE SAME TRENCH AS ELECTRIC

HORIZONTAL SEPARATION IS MAINTAINED. IF RUN IN THE SAME TRENCH AS PRIMARY CONDUITS A MINIMUM OF 12 INCHES BOTH HORIZONTAL AND VERTICAL SEPARATION SHALL

3. ALL CONDUIT BENDS OF 45° OR MORE SHALL BE GALVANIZED RIGID STEEL. THE FIRST 10

FOOT SECTION OF CONDUIT BOTH HORIZONTAL AND VERTICAL AT UTILITY POLES,

SERVICE CONDUITS AND/OR BRANCH CIRCUIT CONDUITS PROVIDING A MINIMUM OF 12 INCH

TRANSFORMER PADS AND AT BUILDING CONDUIT ENTRANCES, SHALL BE GALVANIZED RIGID

4. ALL NONMETALLIC CONDUIT AND FITTINGS SHALL BE ELECTRICAL GRADE, SCHEDULE 80 PVC

5. ALL CONDUIT SYSTEMS, SHOWN ON THIS DETAIL, MAY NOT BE PRESENT ON THIS PROJECT.

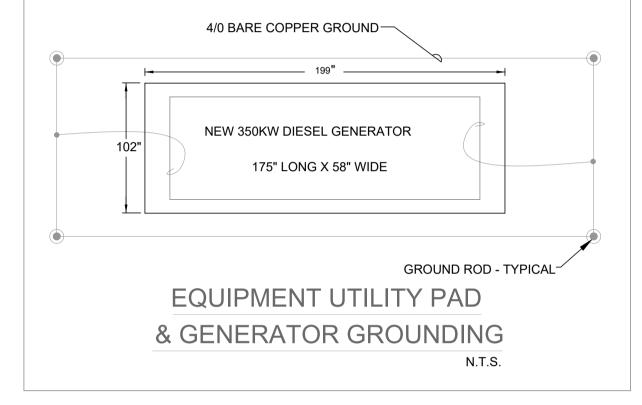
TYPICAL CONDUIT TRENCH DETAIL

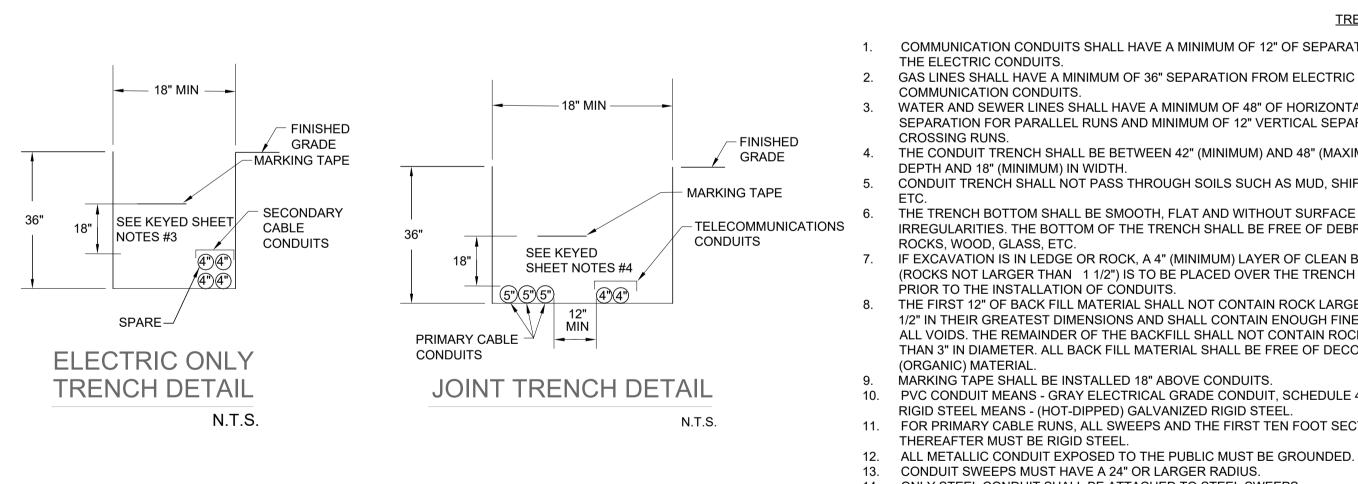
THIS IS A TYPICAL CONDUIT TRENCH DETAIL, EACH INDIVIDUAL PROJECT MAY HAVE MORE OR

AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF NEMA TC2-1990 AND BE UL LISTED. ONLY GRAY COLORED CONDUIT WILL BE ACCEPTED. ANY PVC CONDUIT NOT HAVING THE PROPER NEMA OR UL MARKINGS WILL NOT BE ACCEPTED. ALL STEEL CONDUITS SHALL CONFORM TO ASTM A120 AND BE RIGID GALVANIZED STEEL. ALL PVC CONDUITS MUST BE

FIRE ALARM

CAUTION TAPE —





TRENCH AND CONDUIT NOTES COMMUNICATION CONDUITS SHALL HAVE A MINIMUM OF 12" OF SEPARATION FROM THE ELECTRIC CONDUITS. GAS LINES SHALL HAVE A MINIMUM OF 36" SEPARATION FROM ELECTRIC AND COMMUNICATION CONDUITS.

N.T.S.

- SEPARATION FOR PARALLEL RUNS AND MINIMUM OF 12" VERTICAL SEPARATION FOR CROSSING RUNS. 4. THE CONDUIT TRENCH SHALL BE BETWEEN 42" (MINIMUM) AND 48" (MAXIMUM) IN DEPTH AND 18" (MINIMUM) IN WIDTH.
- 6. THE TRENCH BOTTOM SHALL BE SMOOTH, FLAT AND WITHOUT SURFACE IRREGULARITIES. THE BOTTOM OF THE TRENCH SHALL BE FREE OF DEBRIS, SUCH AS ROCKS, WOOD, GLASS, ETC. 7. IF EXCAVATION IS IN LEDGE OR ROCK, A 4" (MINIMUM) LAYER OF CLEAN BACKFILL
- PRIOR TO THE INSTALLATION OF CONDUITS. THE FIRST 12" OF BACK FILL MATERIAL SHALL NOT CONTAIN ROCK LARGER THAN 1 1/2" IN THEIR GREATEST DIMENSIONS AND SHALL CONTAIN ENOUGH FINES TO FILL ALL VOIDS. THE REMAINDER OF THE BACKFILL SHALL NOT CONTAIN ROCKS LARGER THAN 3" IN DIAMETER. ALL BACK FILL MATERIAL SHALL BE FREE OF DECOMPOSABLE
- CONDUIT SWEEPS MUST HAVE A 24" OR LARGER RADIUS. 14. ONLY STEEL CONDUIT SHALL BE ATTACHED TO STEEL SWEEPS.
- 15. ALL PVC CONDUIT JOINTS SHALL BE JOINED WITH PVC CEMENT. ALL STEEL TO PVC TRANSITIONS MUST UTILIZE A PVC THREADED ADAPTER.

- 16. CONDUITS SHALL BE LAID IN AN ORGANIZED FASHION WITH THE USE OF CONDUIT SPACERS AS NEEDED. 17. CONDUIT SHALL BE LAID IN A STRAIGHT LINE WHENEVER POSSIBLE. THE MAXIMUM
- CHANGE IN DIRECTION BETWEEN TWO CONTIGUOUS LENGTHS OF CONDUIT SHALL BE OVERALL CHANGE IN DIRECTION IN THE PLANE OF ANY CONDUIT RUN SHALL NOT EXCEED 45 DEGREES EXCLUSIVE OF VERTICAL SWEEPS. A PULL BOX MUST BE INSTALLED A THE APPROXIMATE MIDPOINT IF THE ARC OF THE RUN EXCEEDS THIS MAXIMUM.
- FOR THE SECONDARY CABLE RUNS LONGER THAN 200 FEET SWEEPS AND THE FIRST 10 FOOT SECTION THEREAFTER MUST BE RIGID STEEL, EXCEPT AT THE METER LOCATION. 20. CONDUITS INSTALLED THROUGH BUILDING WALLS SHALL BE SEALED TO PREVENT THE ENTRANCE OF GASSES.
- CONDUIT RUNS SHALL BE INSPECTED BY UTILITY PRIOR TO BEING COVERED BY BACK FILL OR THE CONTRACTOR WILL BE REQUIRED TO RE-EXPOSE THE CONDUITS. 22. ALL RUNS OF CONDUIT SHALL BE CLEANED BY PULLING A CLEANING PLUG OR MANDREL
- (NO SMALLER THAN 1/4" LESS THAN THE CONDUIT SIZE) THROUGH THE CONDUIT. 23. ALL RUNS OF CONDUIT SHALL HAVE A 2,500 POUND, FLAT, WOVEN, POLYESTER PULLING LINE INSTALLED. 24. ALL CONDUITS SHALL HAVE A 36" MINIMUM COVER.
- 25. CONDUITS INSTALLED UNDER ROADWAYS, DRIVEWAYS, PARKING LOTS, OR ANY TRAVELED WAY SHALL BE SCHEDULE 80 PVC OR RIGID STEEL, OR MAY BE CONCRETE ENCASED SCHEDULE 40 PVC ONLY IF APPROVED BY UTILITY.
- 26. WATER AND SEWER THERE SHALL BE A MINIMUM OF FOUR FEET OF HORIZONTAL DISTANCE FROM ELECTRIC CONDUITS AND ONE FOOT MINIMUM VERTICAL CLEARANCE FOR ELECTRIC CONDUITS FOR CROSSING RUNS.
- GAS THERE SHALL BE THREE FEET MINIMUM CLEARANCE IN ALL DIRECTIONS FROM BETWEEN ELECTRIC CONDUITS AND GAS.
- 28. THERE SHALL BE ONE FOOT MINIMUM OF SEPARATION BETWEEN ELECTRIC CONDUITS AND COMMUNICATION CONDUITS.

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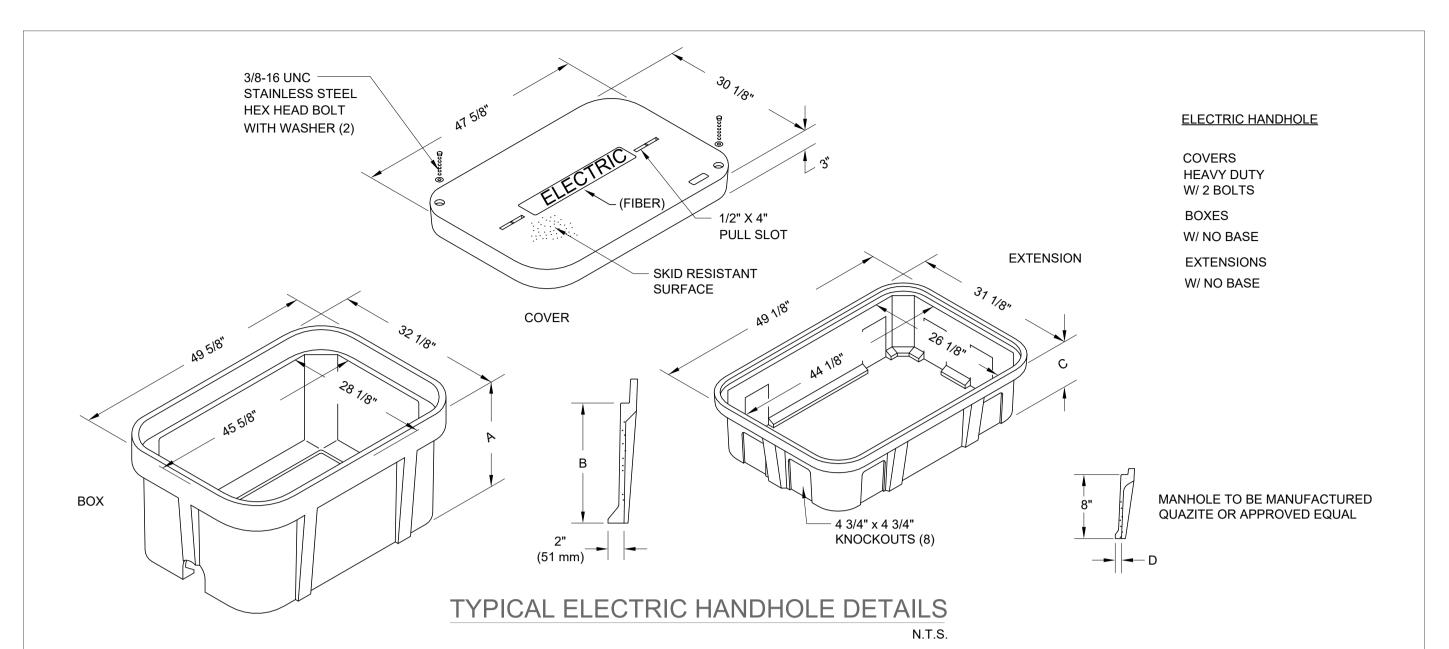
SUBMISSION **PROGRESS SET** 

J, MAINE : DEPARTMENT

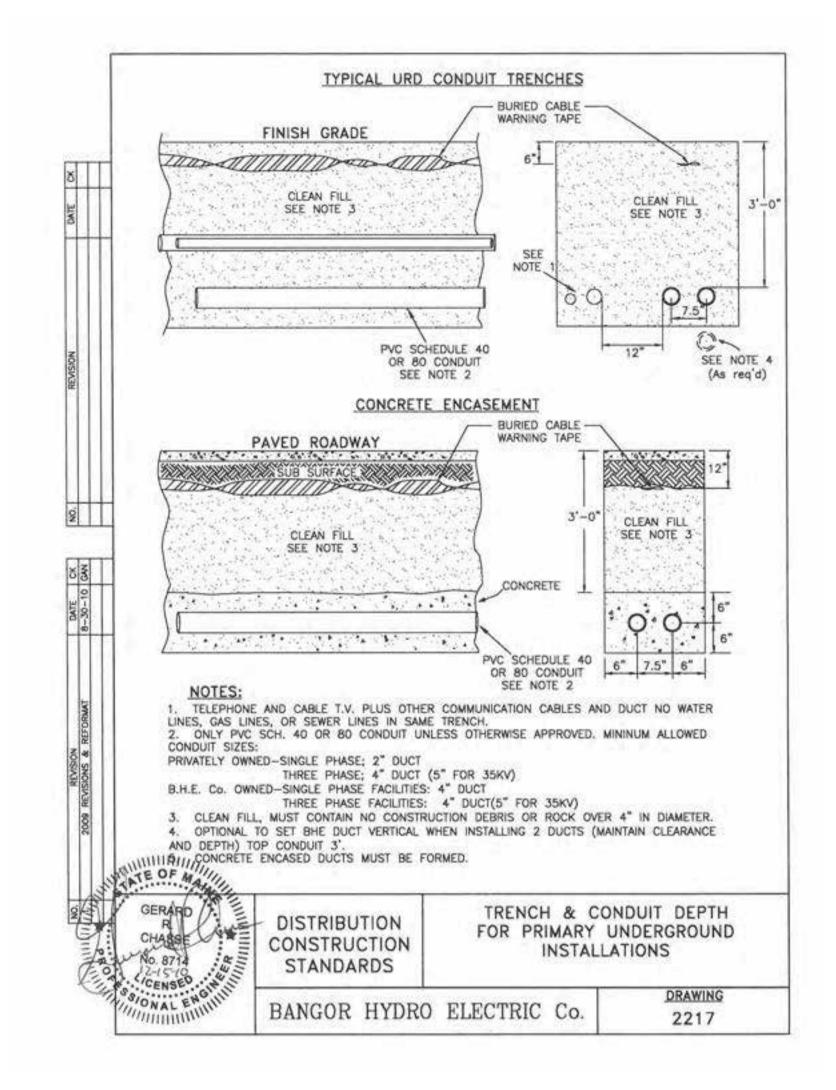
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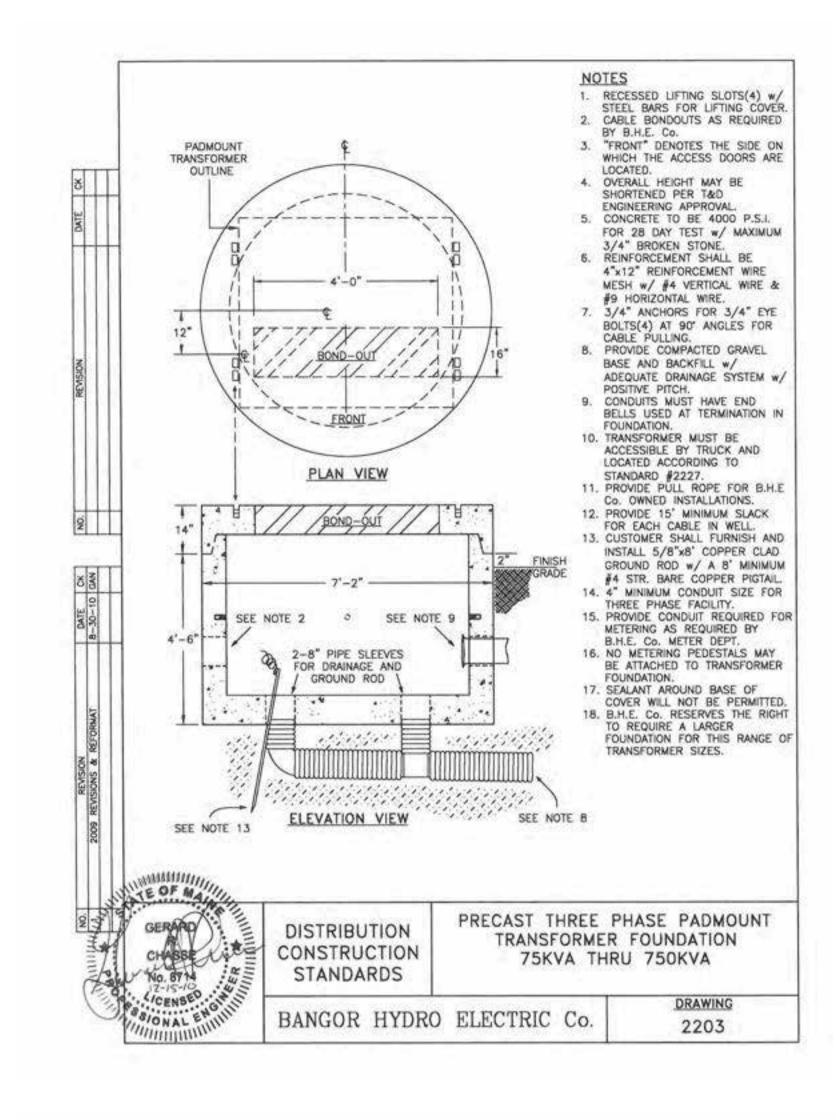
ELECTRICAL DETAILS

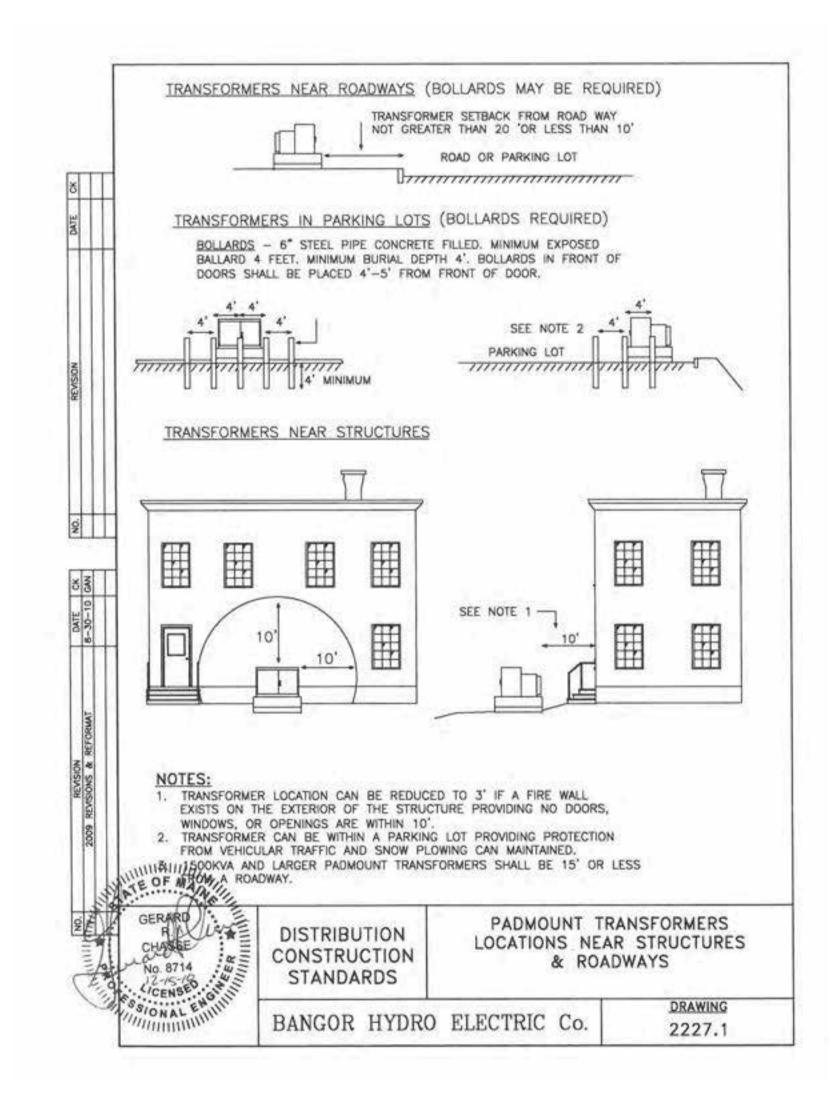
PRELIMINARY - NOT FOR CONSTRUCTION



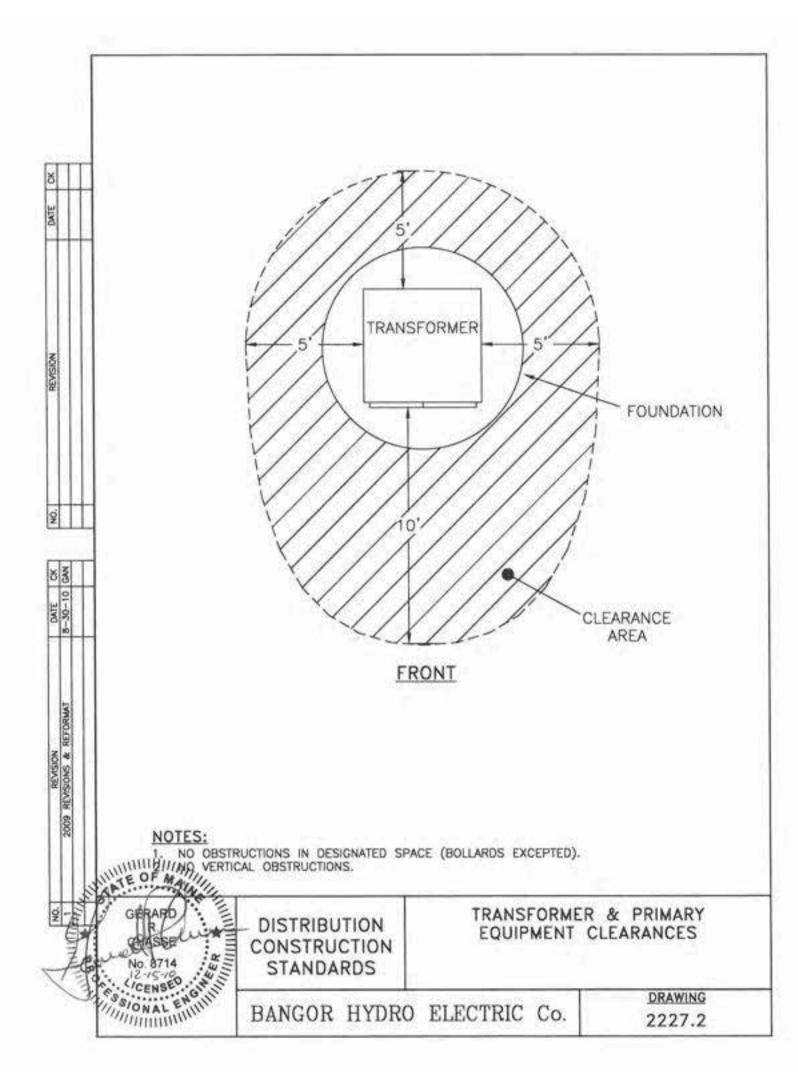
- CONDUIT TRENCH SHALL NOT PASS THROUGH SOILS SUCH AS MUD, SHIFTING SOILS,
- (ROCKS NOT LARGER THAN 1 1/2") IS TO BE PLACED OVER THE TRENCH BOTTOM
- 9. MARKING TAPE SHALL BE INSTALLED 18" ABOVE CONDUITS. 10. PVC CONDUIT MEANS - GRAY ELECTRICAL GRADE CONDUIT, SCHEDULE 40 OR 80 PVC. RIGID STEEL MEANS - (HOT-DIPPED) GALVANIZED RIGID STEEL. 11. FOR PRIMARY CABLE RUNS, ALL SWEEPS AND THE FIRST TEN FOOT SECTION

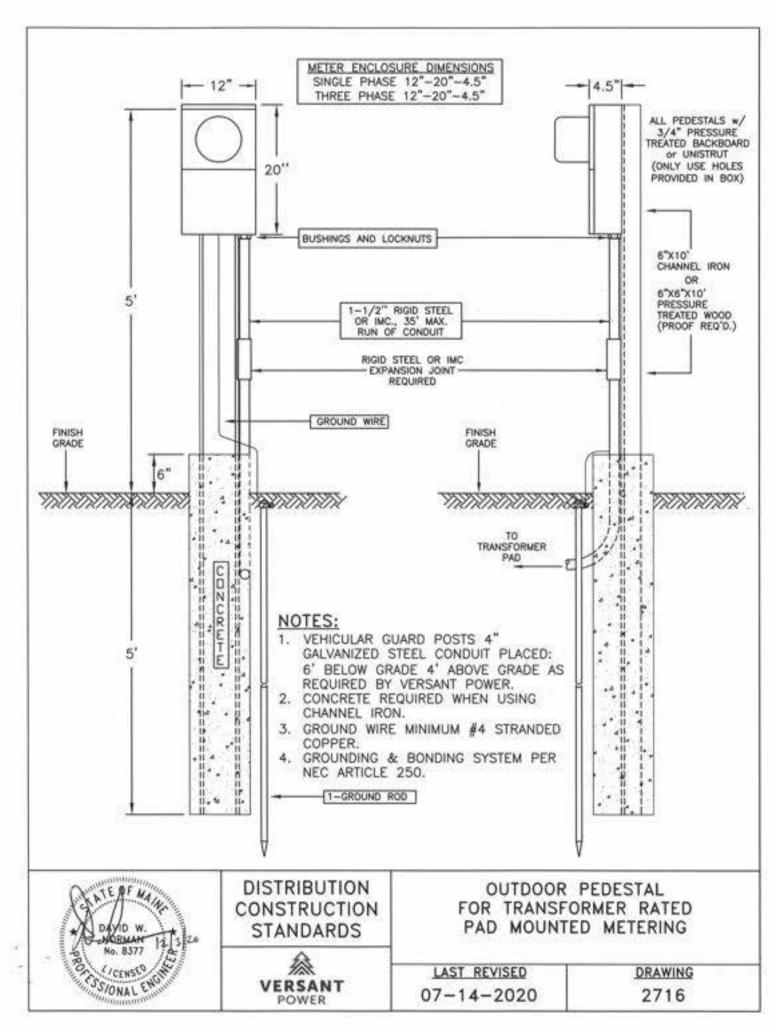






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Project #530419

SEAL

CITY OF CARIBOU, MAINE CARIBOU POLICE DEPARTMENT

PROJECT NUMBER: 2023102

SUBMISSION
PROGRESS SET

ORIGINAL ISSUE

DAZS 2025

SHEET REVISION SCHEDULE:
No. DATE

ELECTRICAL DETAILS

E5.7

		EXTERIOR LIGHT FIXTU	RE SCH	EDULE			
TYPE	MANUFACTURER	MODEL	LUMENS	TEMP (K)	WATTAGE	VOLTAGE	NOTES
D1	LITHONIA	LDN4 40/05 LO4 WR	480	4000	5.74	120	
S2	LITHONIA	DSX0 LED P1 40K 80CRI T2M NLTAIR2 PIRH	4346	4000	33.21	120	
S3	LITHONIA	DSX0 LED P1 40K 80CRI BLC3 NLTAIR2 PIRH	3198	4000	33.21	120	
S3W	LITHONIA	DSX0 LED P1 40K 80CRI T4M NLTAIR2 PIRH	4462	4000	33.21	120	
S5	LITHONIA	DSX0 LED P1 40K 80CRI T5W NLTAIR2 PIRH	4665	4000	33.21	120	
W1	LITHONIA	WDGE1 LED P2 40K 80CRI VF NLTAIR2 PIRH	1978	4000	15.01	120	
W2	LITHONIA	WDGE2 LED P2 40K 80CRI TFTM NLTAIR2 PIRH	2030	4000	18.98	120	FURNISH WITH BATTERY BACKUP

	INTERIOR LIGHT FIXTURE SCHEDULE												
TYPE	MANUFACTURER	MODEL	LUMENS	TEMP (K)	WATTAGE	VOLTAGE	NOTES						
A1	LITHONIA	ENVX 2X2 HRGL 3300LM 80CRI 35K	3284	3500	30.06	120							
A2	LITHONIA	ENVX 2X2 HRGL 2000LM 80CRI 35K	1894	3500	17.38	120							
В	JUNO LIGHTING	JSF 13IN 18LM 35K 90CRI MVOLT ZT WH	1,843	3500	20.2	120							
D1	LITHONIA	LDN4 35/10 LO4AR LD	922	3500	10.58	120							
F	BROWNLEE	5038-25-H16-35K	1,762	3500	16.61	120							
G1	ILP	WTZ8-140WLED-UNIV-40-RAFL	14,366	4000	136.72	120							
L1	MARK ARCHITECTURAL	PLN8 U4 90CRI 40K ID800LMF 70/30	2,669	4000	58.99	120							
Р	TBD	TBD	TBD	TBD	TBD	120							
S1	LITHONIA	CLX L48 5000LM SEF RDL MVOLT 35K 80CRI	4,879	3500	31.82	120							
S2	LITHONIA	CLX L48 7000LM SEF RDL MVOLT 35K 80CRI	7,067	3500	46.61	120							
V	LC DOANE	SCB4-1W60-40/80-DCW-VARDM-122/32-TPKD	6,045	4000	54.8	120							

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	MECHANICAL & PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE											
EQUIPMENT TAG	НР	AMPS (MCA)	VOLT	PHASE	DEVICE	PANEL CIRCUIT No.	С	IRCUIT BREA	AKER		BRANCH CIRCUIT	REMARKS
		7 3 (	152.		22.02	7,11122 0110011 1101	AMP	POLE	GF	ST		
HWP-1	3	-	208	3	PROVIDE DISCONNECT	HPM-5,7,9		3			3-#12, 1-#12, 3/4"C	
HWP-2	3		208	3	PROVIDE DISCONNECT	HPM-6,8,10	15	3			3-#12, 1-#12, 3/4"C	
CHWP-1	3		208	3	PROVIDE DISCONNECT	HPM-11,13,15		3			3-#12, 1-#12, 3/4"C	
CHWP-2	3		208	3	PROVIDE DISCONNECT	HPM-12,14,16	20	3			3-#12, 1-#12, 3/4"C	
DOAS-1		16.80	208	3	PROVIDE DISCONNECT		25	3			3-#12, 1-#10, 3/4"C	
B-1		4.50	120	1	PROVIDE DISCONNECT	HPM-2	15	1			2-#12, 1-#12, 3/4"C	
B-2		4.50	120	1	PROVIDE DISCONNECT	HPM-3	15	1			2-#12, 1-#12, 3/4"C	
B-3		4.50	120	1	PROVIDE DISCONNECT	HPM-4	15	1			2-#12, 1-#12, 3/4"C	
DHU-1		14.40	120	1	PROVIDE DISCONNECT	HP1-11	20	1			2-#12, 1-#12, 3/4"C	
MP-1	0.50		120	1	PROVIDE DISCONNECT	HP1-2	15	1			2-#12, 1-#12, 3/4"C	
MP-2	0.50		120	1	PROVIDE DISCONNECT	HP1-4	15	1			2-#12, 1-#12, 3/4"C	
MP-3	0.50		120	1	PROVIDE DISCONNECT	HP1-5	15	1			2-#12, 1-#12, 3/4"C	
MP-4	0.50		120	1	PROVIDE DISCONNECT	HP1-6	15	1			2-#12, 1-#12, 3/4"C	
MP-5	0.50		120	1	PROVIDE DISCONNECT	HP1-3	15	1			2-#12, 1-#12, 3/4"C	
MP-6	0.50		120	1	PROVIDE DISCONNECT	HP1-7	15	1			2-#12, 1-#12, 3/4"C	
MP-7	0.50		120	1	PROVIDE DISCONNECT	HP1-8	15	1			2-#12, 1-#12, 3/4"C	
MP-8	0.50		120	1	PROVIDE DISCONNECT	HP1-9	15	1			2-#12, 1-#12, 3/4"C	
MP-9	0.50		120	1	PROVIDE DISCONNECT	HP1-10	15	1			2-#12, 1-#12, 3/4"C	
ASHP-1		74.00	480	3	PROVIDE DISCONNECT	HP1-12,14,16	100	3			3-#3, 1-#8, 1"C	



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Project #530419

SEAL:

CARIBOU POLICE DEPARTMENT

PROJECT NUMBER: 202310:

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ORIGINAL ISSU

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SHEET REVISION SCHEDULE:
No. DATE

ELECTRICAL SCHEDULES

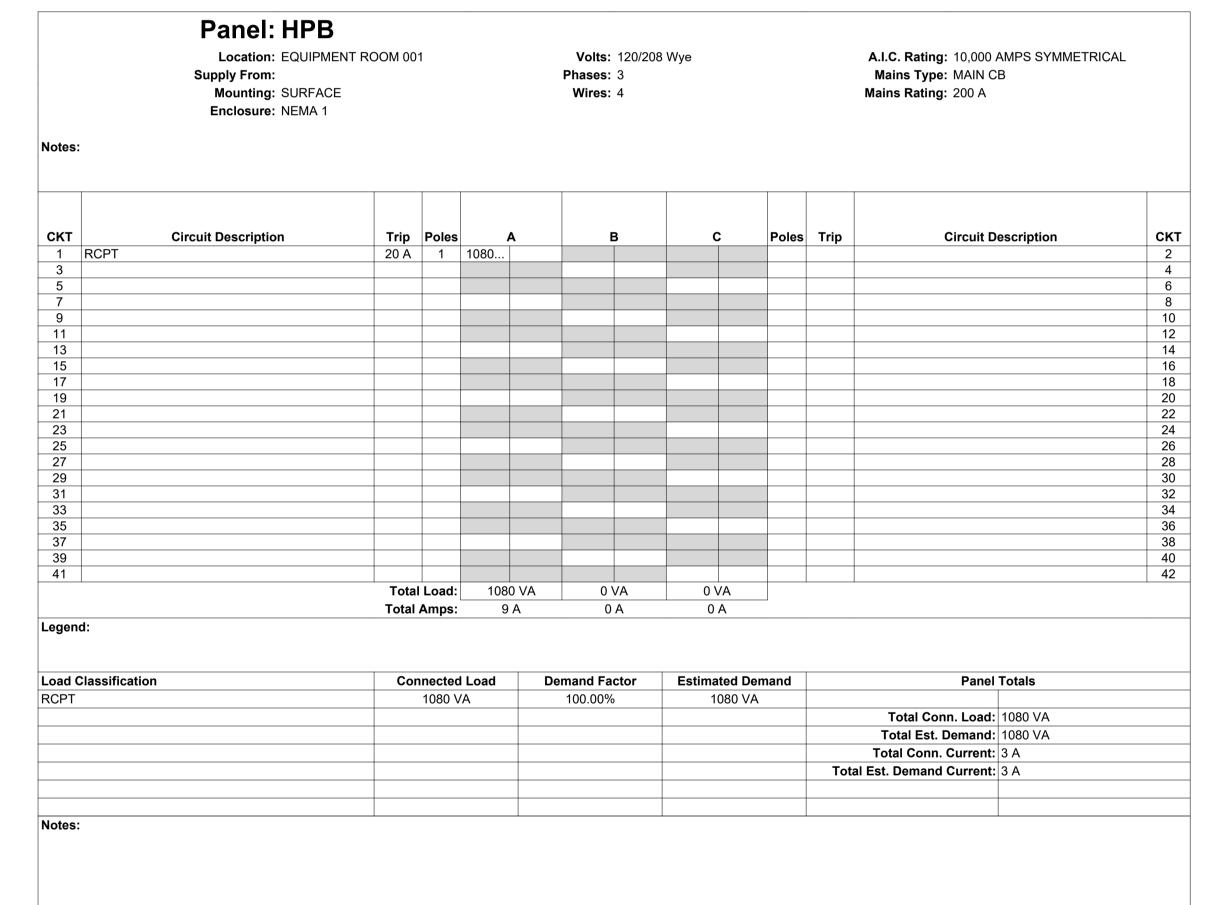
E6.1

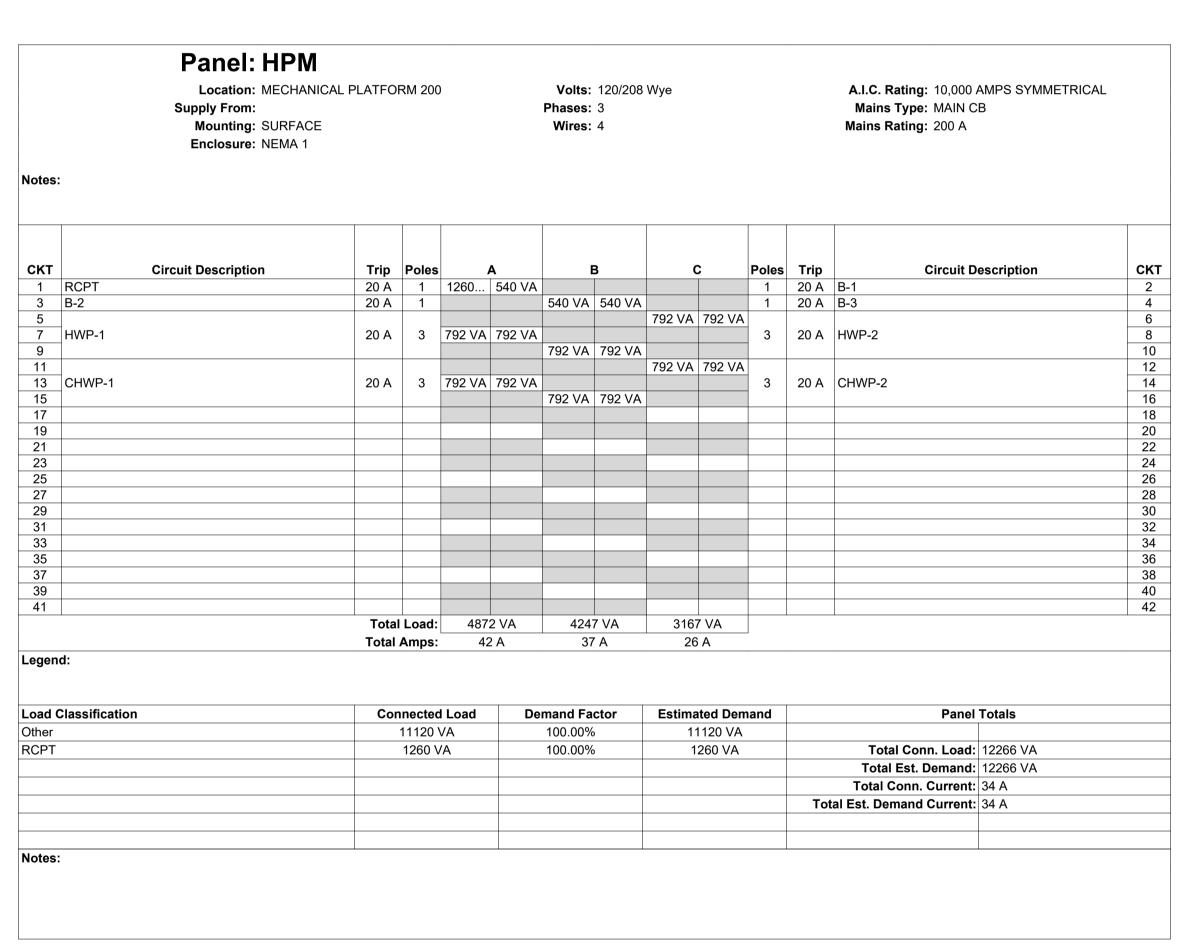
Location: UTILITY 145 Supply From: Mounting: SURFACE Enclosure: NEMA 1						Volts: Phases: Wires:		Wye		A.I.C. Rating: 10,000 AMPS SYMMETRICAL Mains Type: MAIN CB Mains Rating: 200 A				
Notes:														
СКТ	Circuit Description	Trip	Poles		Ą	E	3	(	<b>C</b>	Poles	Trip	Circuit Description	СКТ	
1	RCPT ACCESSIBLE LOCKER RM 121	20 A	1	1440	360 VA					1	20 A	RCPT	2	
3	RCPT LOCKER RM 120	20 A	1			1440 VA	1440 VA			1	20 A	RCPT LOCKER RM 119	4	
5	RCPT Room 118	20 A	1					900 VA	180 VA	1		RCPT	6	
7	SPEC	20 A	2	0 VA	360 VA					1		RCPT WEAPONS 144	8	
9						0 VA	360 VA		- 40 · 11	1	20 A	RCPT NARCOTICS 145	10	
11	RCPT ARMOURY 140	20 A	1	0.144	000111			540 VA	540 VA	1		RCPT Room 123	12	
13	Other ARMOURY 140	20 A	1	0 VA	900 VA	4000 \ / 1	4000 \ / *			1		RCPT K9 132	14	
15	RCPT TOILET 102	20 A	1			1080 VA	1260 VA		000.1/4	1		RCPT DUTY OFFICE 126	16	
17 19	RCPT CONFERENCE 105 RCPT LIEUTENANT 109	20 A	1	000 \/4	1200 \/^			1120 VA	900 VA	1		RCPT SOCIAL 103	18	
	RCPT INTERVIEW 104	20 A 20 A	1	900 VA	1300 VA	720 \/A	900 VA			1		RCPT CONFERENCE 105 RCPT CHIEF 107	20	
21 23	RCPT CANTEEN 116	20 A	1			720 VA	900 VA	900 VA	900 \/A	1		RCPT PATROL STORAGE 110	24	
25	RCPT CANTEEN 116	20 A	1	1440	180 VA			900 VA	900 VA	1		RCPT CANTEEN 116	26	
27	RCPT CANTEEN 116	20 A	1	1440	100 VA	180 V/A	1080 VA			1		RCPT Room 115, 112	28	
29	RCPT OFFICE 114	20 A	1			100 VA	1000 VA	900 VA	720 VA	1		RCPT OFFICE 113	30	
31	RCPT OFFICE 111	20 A	1	900 VA	720 VA			000 171	720 171	1		RCPT RECORDS 147	32	
33	RCPT	20 A	1	000 171	0	180 VA	720 VA			1		RCPT	34	
35	RCPT FITNESS 117	20 A	1					720 VA	720 VA	1	20 A	RCPT FITNESS 117	36	
37	RCPT	20 A	1	180 VA	180 VA					1	20 A	RCPT COMM. EQUIP. 128	38	
39	RCPT COMM. EQUIP. 128	20 A	1			180 VA	540 VA			1	20 A	RCPT COMM. EQUIP. 128	40	
41	RCPT DUTY OFFICE 126	20 A	1					180 VA	720 VA	1	20 A	RCPT Room 136	42	
		Tota	l Load:	886	AV C	1008	80 VA	9940	AV C					
		Total	Amps:	74	A	85	5 A	84	A					
Legen	d:													
Load (	Classification	Cor	nected	d Load	Dei	mand Fa	ctor	Estima	ited Dem	and		Panel Totals		
Other			0 VA	١		0.00%			0 VA					
RCPT			28879	VA		67.31%		19	9440 VA			Total Conn. Load: 28879 VA		
SPEC			0 VA			0.00%			0 VA			Total Est. Demand: 19440 VA		
												Total Conn. Current: 80 A		
		+												
											Tot	al Est. Demand Current: 54 A		

Panel: PP1

	Volts: 120/208 Wye Phases: 3 Wires: 4									A.I.C. Rating: 10,000 Mains Type: MAIN C Mains Rating: 200 A		AL		
Notes:														
СКТ	Circuit Description	Trip	Poles		A		В		C	Poles	Trip	Circuit D	Description	C
1 SITE LTG		20 A	1	0 VA						1		SITE LTG	rescription	
3 LTG		20 A	1		2	682 VA	1671 VA			1		LTG		
5 LTG		20 A	1						904 VA			LTG		(
7 LTG		20 A	1	1235	1200 VA					1		LTG		8
9 FLAG PO	LE LTG	20 A	1			0 VA	0 VA			1		SIGN LTG		1
11 SIGN LTC		20 A	1					0 VA						1
13														1
15														1
17														1
19														2
21														2
23														2
25														2
27			-											2
29 31			_											3
33														3
35														3
37														3
39														4
41														4
		Total	Load:	243	86 VA	232	7 VA	177	0 VA					
			Amps:		1 A		) A		5 A					
Legend:	ion	Cor	nected	l Load	De	mand Fa	ctor	Estima	ated Der	mand		Panel	Totals	
Load Classificat	<del></del>		5352 \			100.00%			352 VA			. unoi		
			1318 \			125.00%			647 VA			Total Conn. Load:	6532 VA	
Other						120.007	-	<u>'</u>				Total Est. Demand:		
Other												Total Conn. Current:		
Other													118 A	
Load Classificat Other LITES											Ta			
Other											То	tal Est. Demand Current:		

	Panel: HP1														
	Volts: 120/208 Wye Phases: 3 Wires: 4										A.I.C. Rating: 10,000 AMPS SYMMETRICAL Mains Type: MAIN CB Mains Rating: 200 A				
Notes:															
СКТ	Circuit Description		Poles		A	E	3	(		Poles			escription	СК	
1 RCPT		20 A	1	180 VA	1176 VA		=			1		MP-1		2	
3 MP-5		15 A	1			1176 VA			4450	1		MP-2		4	
5 MP-3		15 A	1	1170	4470 \/4			1176 VA	1176	1		MP-4		6	
7 MP-6 9 MP-8		15 A	1	11/6	1176 VA		1176 \ / ^			1		MP-7		8	
9 MP-8 11 DHU-1		15 A 20 A	1			1176 VA	11/6 VA	1728 VA	9976	1	15 A	MP-9		10	
13		20 A			8876 VA			1720 VA	00/0	3	100 4	ASHP-1		14	
15					0070 VA		8876 VA			"	100 A	Aorii -i		16	
17							0010 171							18	
19														20	
21														22	
23														24	
25														26	
27														28	
29														30	
31														32	
33														34	
35														36	
37														38	
39 41														40	
41		Total	Loodi	1050	66 VA	1250	0 \ / ^	1205	6 \/					42	
			Load:			1358			6 VA						
		lotai	Amps:	10	5 A	114	4 A	108	3 A						
Legend:															
Load Classification		Con	nected	l I oad	Do	mand Fac	ctor	Fetima	ited Den	nand		Danal	Totals		
Other	1		38940 \		De	100.00%			3940 VA			Fallel	Totalo		
RCPT			180 V			100.00%			180 VA			Total Conn. Load:	30102 \/A		
NOF I			100 V			100.00%	'		IOU VA						
												Total Conn. Currents			
											<b>-</b>	Total Conn. Current:			
											lot	al Est. Demand Current:	109 A		
Notes:															





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CITY OF CARIBOU, MAINE CARIBOU POLICE DEPARTMENT

PROJECT NUMBER: 2023102 SUBMISSION PROGRESS SET ORIGINAL ISSUE

**92\25**/2025 **SHEET REVISION SCHEDULE:** 

ELECTRICAL SCHEDULES