



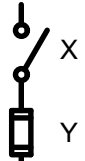



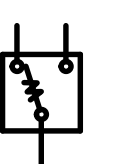






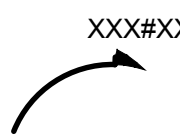
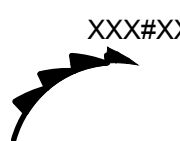


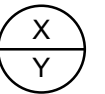


















ELECTRICAL LEGEND:

	FURNISH AND INSTALL CONDUIT AND EQUIPMENT, QUANTITY AND SIZE OF CABLES SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS.
	EXISTING CONDUIT AND EQUIPMENT TO REMAIN AS INDICATED ON THE CONTRACT DRAWINGS.
	FURNISH AND INSTALL UNDERGROUND CONDUIT AS INDICATED ON THE CONTRACT DRAWINGS.
	REVENUE GRADE UTILITY METER.
	FUSIBLE SAFETY SWITCH. X - INDICATES SWITCH AMPERE RATING Y - INDICATES FUSE AMPERE RATING
	DELTA PRIMARY / WYE SECONDARY TRANSFORMER.
	NON-FUSIBLE TYPE SAFETY SWITCH. X - INDICATES SWITCH AMPERE RATING
	CIRCUIT BREAKER. X - INDICATES AMPERE TRIP SETTING Y - INDICATES AMPERE FRAME SIZE
	AUTOMATIC TRANSFER SWITCH.
	GENERATOR.
	KEY-INTERLOCKING MECHANISM.
	MOTOR. X - INDICATES HORSEPOWER RATING
	480/277V PANELBOARD.
	208/120V PANELBOARD.
	CONTINUATION.
	HOMERUN CIRCUIT XXX#XX CIRCUIT DESIGNATION CIRCUIT NUMBER PANELBOARD NAME
	HOMERUN WITH FOUR (4) CIRCUITS XXX#XX CIRCUIT DESIGNATION CIRCUIT NUMBERS PANELBOARD NAME
	WALL MOUNTED 125V, 20A NON-LOCKING TYPE DUPLEX RECEPTACLE. GFI - DENOTES SELF-TEST GFCI TYPE RECEPTACLE WP - DENOTES LISTED WEATHER-RESISTANT RECEPTACLE IN WEATHERPROOF ENCLOSURE
	WALL MOUNTED 125V, 20A QUADRUPLEX RECEPTACLE.
	DRAWING CALLOUT X - DENOTES PART PLAN NUMBER Y - DENOTES DRAWING SHEET NUMBER
	POKE-THRU DEVICE. REFER TO DETAIL 6 ON DRAWING E-502 FOR CONDUIT INSTALLATION REQUIREMENTS.
	FINAL MECHANICAL EQUIPMENT CONNECTION. COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT REQUIREMENTS.
	NON-FUSIBLE TYPE DISCONNECT SWITCH; SIZE AS NOTED ON PLANS.
	FUSIBLE TYPE DISCONNECT SWITCH; SIZE AS NOTED ON PLANS.
	MOTORIZED DAMPER.
	VARIABLE FREQUENCY DRIVE. REFER TO MECHANICAL CONTRACT DRAWINGS FOR SPECIFICATIONS.
	MOTOR CONTROL PANEL.
	PULL BOX; SIZE AS NOTED ON PLANS.
	HARDWIRED CONNECTION. REFER TO POWER PLANS FOR EQUIPMENT/CONNECTION INFORMATION.
	HORSEPOWER RATED SWITCH.
	DATA OUTLET; FURNISH AND INSTALL 3/4" EMPTY CONDUIT STUB-UP FROM DEVICE TO ABOVE DROPPED CEILING WITH PULL STRING. REFER TO TELECOMMUNICATION CONTRACT DRAWINGS FOR EXACT REQUIREMENTS.
	FLOOR MOUNTED DRY TYPE TRANSFORMER.
	CEILING MOUNTED JUNCTION BOX.
	EQUIPMENT GROUND TERMINAL BAR WITHIN SWITCHBOARD/PANELBOARD.
	SOLENOID VALVE.
	LEAK DETECTION.

ELECTRICAL GENERAL NOTES:

- THE CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT EVERY DETAIL OR EXACT LOCATION OF EQUIPMENT AND/OR CONDUIT IS SHOWN. VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING ANY MATERIAL OR PERFORMING ANY WORK. NOTIFY THE ENGINEER OF ANY CONDITIONS OR DIMENSIONS, WHICH WOULD AFFECT THE PERFORMANCE OF WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- UON, USE THE FOLLOWING RACEWAYS FOR INDOOR INSTALLATIONS:
 - EXPOSED: RMC
 - CONCEALED: EMT (MC CABLE WHERE PERMISSIBLE ACCORDING TO SPEC SECTION 3.06B)
 - CONNECTION TO VIBRATING EQUIPMENT: FMC; EXCEPT IN WET OR DAMP LOCATIONS, USE LFMC DAMP OR WET LOCATIONS: IMC / RMC
- UON, USE THE FOLLOWING RACEWAYS FOR OUTDOOR INSTALLATIONS, UON:
 - EXPOSED: IMC / RMC
 - CONCEALED: IMC / RMC
 - UNDERGROUND, BELOW SLAB: RNC - SCHEDULE 40 PVC
 - UNDERGROUND, ALL OTHER LOCATIONS:RNC - SCHEDULE 80 PVC
 - CONNECTION TO VIBRATING EQUIPMENT: LFMC
- UON, ALL INDOOR AND OUTDOOR WIRING SHALL BE 600V, 1/C COPPER TYPE "THHN/THWN" WIRES.
- UON, ALL PULL BOXES, JUNCTION BOXES AND ENCLOSURES FOR ELECTRICAL EQUIPMENT FOR ALL OUTDOOR AND NON-CLIMATE CONTROLLED INDOOR ENVIRONMENT SHALL BE NEMA TYPE 3R.
- LIGHT LINE WORK INDICATES EXISTING ELECTRICAL MATERIALS AND EQUIPMENT TO REMAIN. MATERIALS AND EQUIPMENT, EXISTING OR TO BE FURNISHED AND/OR INSTALLED UNDER THIS CONTRACT, BY OTHER DISCIPLINES ARE ALSO SHOWN IN LIGHT LINES. HEAVY LINE WORK INDICATES ELECTRICAL MATERIALS AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED OR EXISTING ELECTRICAL INSTALLATION TO BE MODIFIED, ADJUSTED AND OR REINSTALLED AS SHOWN ON THE CONTRACT DRAWINGS.
- MAINTAIN THE INTEGRITY OF ALL CIRCUITS IN SERVICE THAT MAY BE AFFECTED BY THIS WORK.
- IDENTIFY ALL SOURCES OF POWER AND DE-ENERGIZE REQUIRED CIRCUITS BEFORE COMMENCEMENT OF WORK.
- FOR EACH RACEWAY, PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE WITH A GREEN COLOR OUTER JACKET/INSULATION.
- UON, ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS.
- FURNISH AND INSTALL ALL NECESSARY MATERIAL IN ORDER TO PROVIDE A COMPLETE SYSTEM READY FOR OPERATION, ACCORDING TO CONTRACT DOCUMENTS AND APPLICABLE CODES.
- UON, ALL ITEMS TO BE SECURED SHALL BE FASTENED TO STEEL BY THREADED BEAM CLAMPS WITH LOCKING NUTS. ALL FASTENING HARDWARE SHALL BE STAINLESS STEEL AND SHALL INCLUDE SHAKE PROOF (EXTERNAL STAR) LOCK WASHERS. ALL BOLTS SHALL HAVE LOCK WASHERS ELASTIC STOP NUTS IN ADDITION TO REGULAR NUTS. SCREWS SHALL BE TAMPERPROOF AND BOLT ENDS SHALL BE PEENED.
- FURNISH AND INSTALL A PERMANENTLY AFFIXED LABEL ON ELECTRICAL EQUIPMENT. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT. PROVIDE TYPED CIRCUIT DIRECTORIES FOR PANELBOARDS. ALL LABELS ON ELECTRICAL EQUIPMENT SHALL INDICATE THE SOURCE OF SUPPLY.
- FOR ALL JUNCTION BOXES AND ENCLOSURES INSTALLED IN DAMP OR WET LOCATIONS, CONDUITS SHALL ENTER ONLY THROUGH THE BOTTOM OR SIDES OF THE JUNCTION BOX OR ENCLOSURE. TOP CONDUIT ENTRIES SHALL NOT BE PERMITTED. ALL CONDUIT CONNECTIONS SHALL BE MOISTURE TIGHT. USE MOISTURE TIGHT HUBS FOR ALL CONDUIT ENTRANCES INTO EQUIPMENT ENCLOSURES.
- COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.
- UON, ALL EXISTING ELECTRICAL INSTALLATIONS SHALL REMAIN.
- GROUND ALL METALLIC ENCLOSURES PER CONTRACT SPECIFICATIONS.
- ALL CONDUITS SHALL CONTAIN AN INSULATED GROUND WIRE BONDED IN ALL ENCLOSURES AND SIZED IN ACCORDANCE WITH NEC REQUIREMENTS.
- UON, FURNISH AND INSTALL WIRING, CONDUIT, AND NECESSARY EQUIPMENT/DEVICES AS REQUIRED TO ENSURE A COMPLETE AND FULLY OPERATIONAL HVAC SYSTEM. COMPLY WITH THE REQUIREMENTS DESCRIBED AND SHOWN ON THE MECHANICAL DRAWINGS AND SPECIFICATIONS.
- AFTER COMPLETION OF WORK, SUBMIT REPRODUCIBLE AS-BUILT DRAWINGS TO THE ENGINEER.
- ALL 15KV RATED CABLE TERMINATIONS AT UTILITY RISER POLE OR AT LIVE FRONT EQUIPMENT SHALL BE OUTDOOR TYPE STRESS CONES. ALL 15KV RATED CABLE TERMINATIONS AT DEAD FRONT EQUIPMENT SHALL BE LOAD BREAK TYPE.
- ALL CONDUIT TERMINATIONS INTO NON-THREADED BOXES/ENCLOSURES SHALL BE BONDED TO THE GROUND WIRE/CONDUCTOR INSTALLED IN THAT CONDUIT/RACEWAY WITH A PROPERLY SIZED BONDING JUMPER/WIRE. USE BONDING BUSHINGS WITH LAY-IN LUGS FOR ALL CONDUIT TERMINATIONS.
- ALL OUTDOOR CONDUIT TERMINATIONS INTO NON-THREADED BOXES/ENCLOSURES SHALL BE MADE USING NEMA 4X CONDUIT HUBS WITH GROUNDING BUSHINGS/LAY-IN LUGS.
- EACH WIRE/CABLE SHALL BE LABELED WITHIN 6 INCHES OF ALL TERMINATION POINTS. LABELS SHALL LIST PANEL NAME, CIRCUIT & PHASE.
- ALL 3 PHASE CIRCUITS SHALL BE COLOR CODED BROWN/ORANGE/YELLOW/GRAY (480/277V), BLACK/RED/BLUE/WHITE (208/120V).
- FURNISH AND INSTALL TELEPHONE, NETWORK, SECURITY AND OTHER LOW-VOLTAGE EQUIPMENT BACK-BOXES & EMPTY CONDUIT SYSTEMS FOR LOW-VOLTAGE WIRING AND CABLING. (UON, WIRING & CABLING IS UNDER A SEPARATE CONTRACT.) LOCATION AND SIZE OF CONDUIT SHALL BE AS SPECIFIED ON THE DRAWINGS OR AS REQUIRED. THE MANNER OF INSTALLING CONDUIT SHALL BE THE SAME AS SPECIFIED HEREIN FOR LIGHT AND POWER WIRING SYSTEMS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE IT CONSULTANT AND OTHER TELECOMMUNICATION SYSTEMS VENDORS.

ABBREVIATIONS:

'	FEET
"	INCHES
&	AND
°C	DEGREES CELSIUS
# / NO.	NUMBER
1/C	ONE CONDUCTOR
3/C	THREE CONDUCTOR
4/C	FOUR CONDUCTOR
A, AMP	AMPERES
AAP	aisle ACCESS PANEL
ACUR	AIR CURTAIN
AF	AMPERE FRAME SIZE
AS/RS	AUTOMATIC SUPPLY / RETRIEVAL SYSTEM
AT	AMPERE TRIP SETTING
ATS	AUTOMATIC TRANSFER SWITCH
BIL	BASIC INSULATION LEVEL
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CU	COPPER
DSF	DESTRATIFICATION FAN
DWG	DRAWING
EM	EMERGENCY
EQ	EQUIPMENT
ERFH	ELECTRIC RADIANT FLOOR HEATING
G, GND	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
HP	HORSEPOWER
HV	HEATING & VENTILATION
HVAC	HEATING, VENTILATION, AIR-CONDITIONING
HWAT	HOT WATER TEMPERATURE MAINTENANCE SYSTEM
HWHU	HOT WATER UNIT HEATER
HZ	HERTZ
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LS	LIFE SAFETY
LSI	LONG-TIME, SHORT-TIME, & INSTANTANEOUS PICKUP
LSIG	LONG-TIME, SHORT-TIME, INSTANTANEOUS PICKUP, & GROUND FAULT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CONTROL PANEL
MLO	MAIN LUGS ONLY
MH	MOUNTING HEIGHT
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NICET	NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES
NRTL	NATIONAL RECOGNIZED TESTING LABORATORY
NTS	NOT TO SCALE
O&R	ORANGE AND ROCKLAND UTILITY
P	POLE
PH	PHASE
RTAC	ROOFTOP AIR CONDITIONING UNIT
SRM	STORAGE RETRIEVAL MACHINE
SWBD	SWITCHBOARD
TF	TRANSFER FAN
TXF	TOILET EXHAUST FAN
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VAV	VARIABLE AIR VOLUME
VRC	VERTICAL RECIPROCATING CONVEYOR
W	WIRE
XFMR	TRANSFORMER

ELECTRICAL DRAWING LIST

Sheet Number	Sheet Title
E-001	ELECTRICAL LEGEND, GENERAL NOTES, ABBREVIATIONS, & DRAWING LIST
E-002	ELECTRICAL OVERALL KEY PLAN
E-101	ELECTRICAL LIGHTING PLAN - ASRS WAREHOUSE (NORTH)
E-102	ELECTRICAL LIGHTING PLAN - ASRS WAREHOUSE (SOUTH)
E-103	ELECTRICAL LIGHTING PLAN - PART WAREHOUSE & 1ST MEZZ.
E-104	ELECTRICAL LIGHTING PLAN - 2ND MEZZANINE
E-105	ELECTRICAL LIGHTING PLAN - ADMIN OFFICE
E-106	ELECTRICAL LIGHTING PLAN - PARKING DECK
E-107	ELECTRICAL LIGHTING PLAN - ADMIN ROOF
E-108	ELECTRICAL SITE LIGHTING PLAN - 20 DUNNIGAN (NORTH)
E-109	ELECTRICAL SITE LIGHTING PLAN - 10 DUNNIGAN (NORTH)
E-110	ELECTRICAL SITE LIGHTING PLAN - 10 DUNNIGAN (SOUTH)
E-111	ELECTRICAL LIGHTING PLAN - CANOPY
E-201	ELECTRICAL POWER PLAN - WAREHOUSE LEVEL (NORTH)
E-202	ELECTRICAL POWER PLAN - WAREHOUSE LEVEL (SOUTH)
E-203	ELECTRICAL POWER PLAN - PART WAREHOUSE & 1ST MEZZ.
E-204	ELECTRICAL POWER PLAN - 2ND MEZZANINE
E-205	ELECTRICAL POWER PLAN - ADMIN OFFICE
E-207	ELECTRICAL POWER PLAN - ADMIN ROOF
E-208	ELECTRICAL POWER PLAN - 10 DUNNIGAN (NORTH)
E-209	ELECTRICAL POWER PLAN - 10 DUNNIGAN (SOUTH)
E-210	ELECTRICAL POWER PLAN - 20 DUNNIGAN (NORTH)
E-211	ELECTRICAL POWER PLAN - 20 DUNNIGAN (SOUTH)
E-301	MECHANICAL POWER PLAN - WAREHOUSE LEVEL (NORTH)
E-302	MECHANICAL POWER PLAN - WAREHOUSE LEVEL (SOUTH)
E-303	MECHANICAL POWER PLAN - PART WAREHOUSE & 1ST MEZZ.
E-304	MECHANICAL POWER PLAN - 2ND MEZZANINE
E-305	MECHANICAL POWER PLAN - ADMIN OFFICE
E-307	MECHANICAL POWER PLAN - ADMIN ROOF
E-308	MECHANICAL POWER PLAN - 10 DUNNIGAN (NORTH)
E-309	MECHANICAL POWER PLAN - 10 DUNNIGAN (SOUTH)
E-310	MECHANICAL POWER PLAN - 20 DUNNIGAN (NORTH)
E-311	MECHANICAL POWER PLAN - 20 DUNNIGAN (SOUTH)
E-312	MECHANICAL POWER PLAN - WAREHOUSE ROOF (NORTH)
E-313	MECHANICAL POWER PLAN - WAREHOUSE ROOF (SOUTH)
E-401	ELECTRICAL SERVICE & GENERATOR AREAS - INSTALLATIONS
E-402	ELECTRICAL ROOM PART PLANS - INSTALLATIONS
E-403	ELECTRICAL SERVICE YARD - CONDUIT & GROUNDING PLAN
E-404	ELECTRICAL LIGHTING PART PLANS - AUXILIARY ROOMS SHEET 1 OF 2
E-405	ELECTRICAL LIGHTING PART PLANS - AUXILIARY ROOMS SHEET 2 OF 2
E-406	ELECTRICAL POWER PART PLAN - JANITOR'S CLOSET & TOILET ROOMS
E-501	ELECTRICAL GROUNDING DETAILS
E-502	ELECTRICAL DETAILS
E-601	ELECTRICAL PANEL SCHEDULES SHEET 1 OF 6
E-602	ELECTRICAL PANEL SCHEDULES SHEET 2 OF 6
E-603	ELECTRICAL PANEL SCHEDULES SHEET 3 OF 6
E-604	ELECTRICAL PANEL SCHEDULES SHEET 4 OF 6
E-605	ELECTRICAL PANEL SCHEDULES SHEET 5 OF 6
E-606	ELECTRICAL PANEL SCHEDULES SHEET 6 OF 6
E-607	LIGHTING FIXTURE SCHEDULE & LIGHTING CONTROLS LEGEND
E-701	ELECTRICAL ONE-LINE DIAGRAM - SHEET 1 OF 3
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E-703	ELECTRICAL ONE-LINE DIAGRAM - SHEET 3 OF 3
E-901	ELECTRICAL SPECIFICATIONS SHEET 1 OF 4
E-902	ELECTRICAL SPECIFICATIONS SHEET 2 OF 4
E-903	ELECTRICAL SPECIFICATIONS SHEET 3 OF 4
E-904	ELECTRICAL SPECIFICATIONS SHEET 4 OF 4
E-905	MEDIUM VOLTAGE SWITCHGEAR SPECIFICATION
E-906	SWITCHBOARD SPECIFICATION SHEET 1 OF 2
E-907	SWITCHBOARD SPECIFICATION SHEET 2 OF 2

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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL LEGEND, GENERAL
NOTES, ABBREVIATIONS, &
DRAWING LIST

DWG NUMBER :

E-001

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAMS.
3. REFER TO E-600 SERIES CONTRACT DRAWINGS FOR PANEL SCHEDULES.

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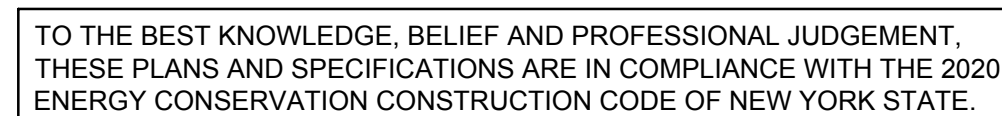
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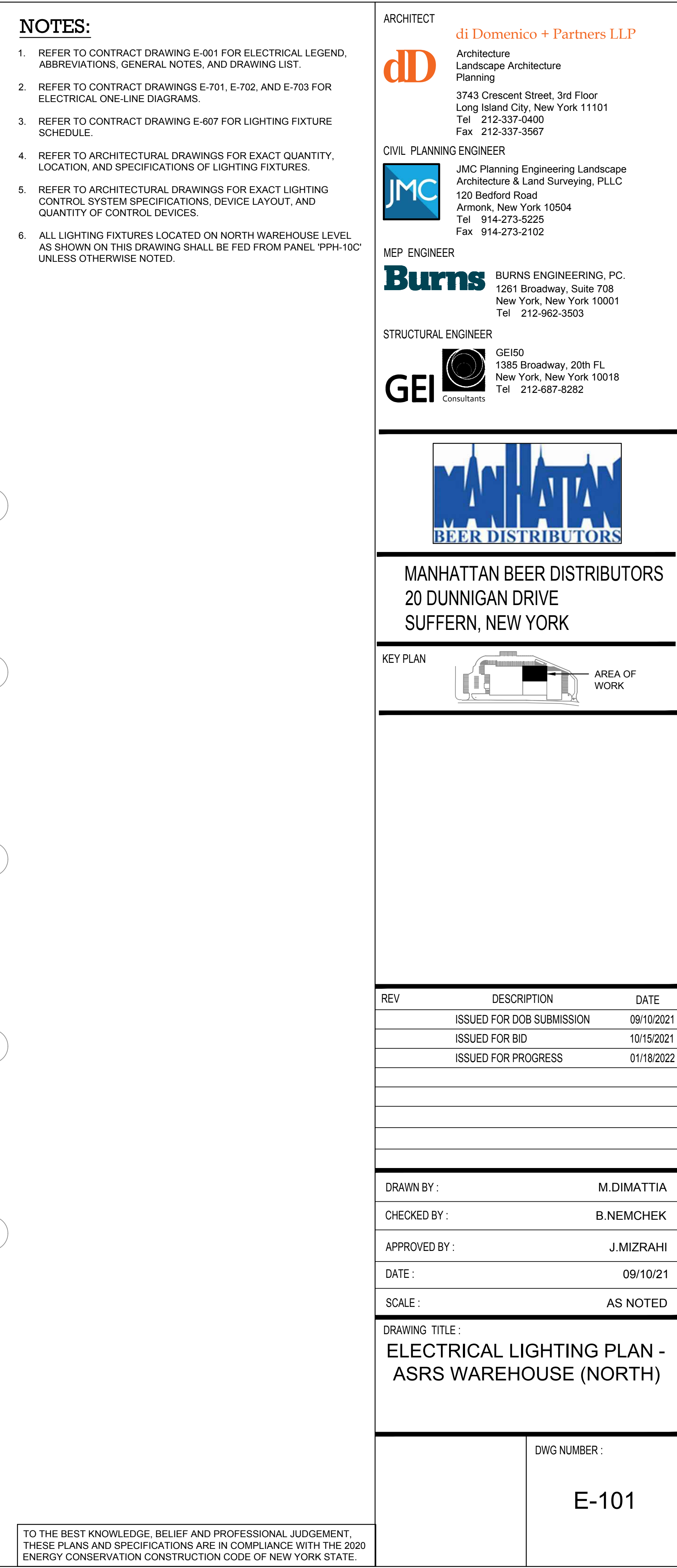
KEY PLAN

DRAWN BY :	M.DIMATTIA
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APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	1" = 50'

DWG NUMBER :

E-002





TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAMS.
3. REFER TO CONTRACT DRAWING E-607 FOR LIGHTING FIXTURE SCHEDULE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION, AND SPECIFICATIONS OF LIGHTING FIXTURES.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHTING CONTROL SYSTEM SPECIFICATIONS, DEVICE LAYOUT, AND QUANTITY OF CONTROL DEVICES.
6. ALL LIGHTING FIXTURES LOCATED ON SOUTH WAREHOUSE LEVEL AS SHOWN ON THIS DRAWING SHALL BE FED FROM PANEL 'PP-M' UNLESS OTHERWISE NOTED.

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KEY PLAN

AREA OF WORK

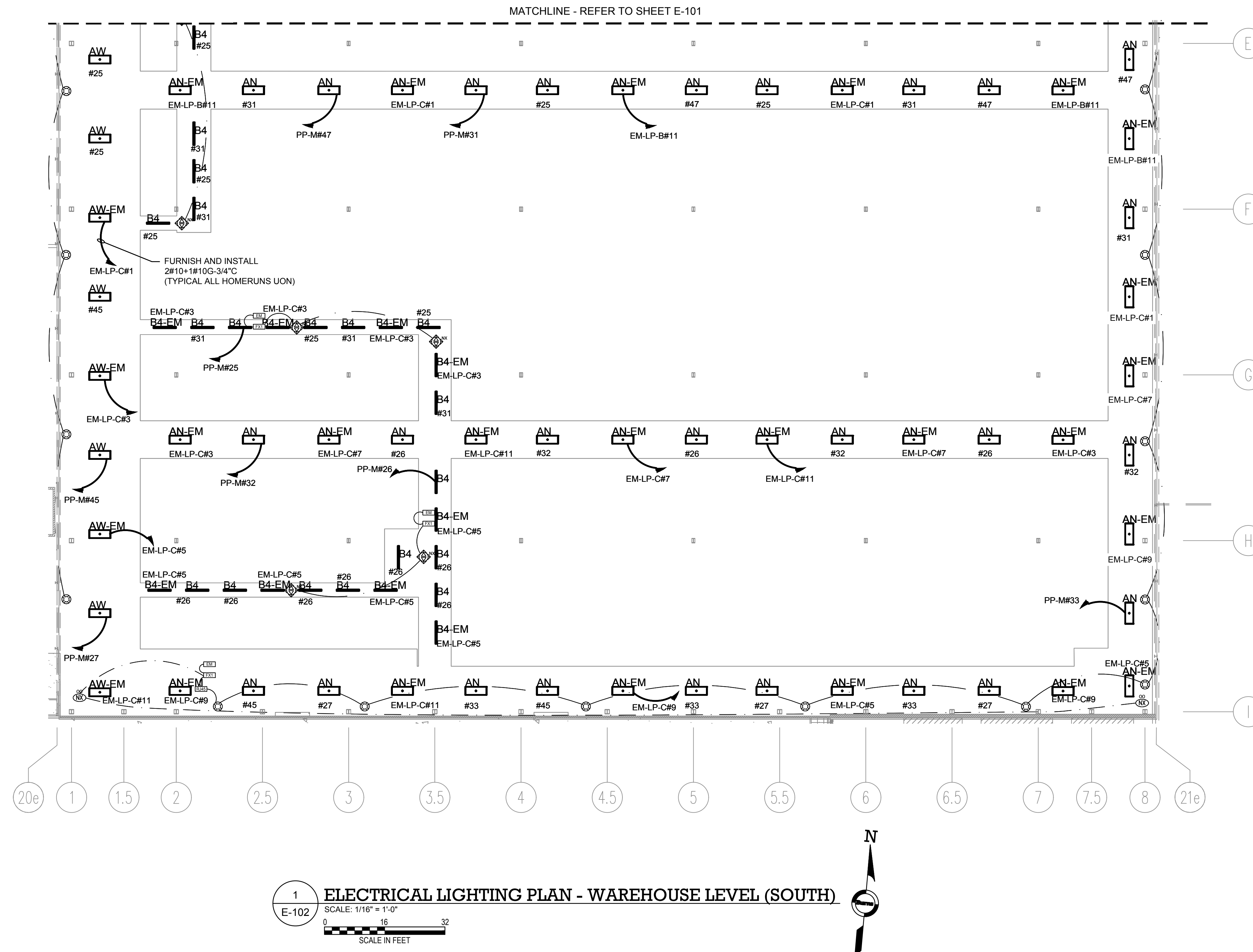
The key plan shows a cross-section of the building. A black rectangular area is highlighted in the central part of the building, representing the work area. An arrow points from the text 'AREA OF WORK' to this black area.

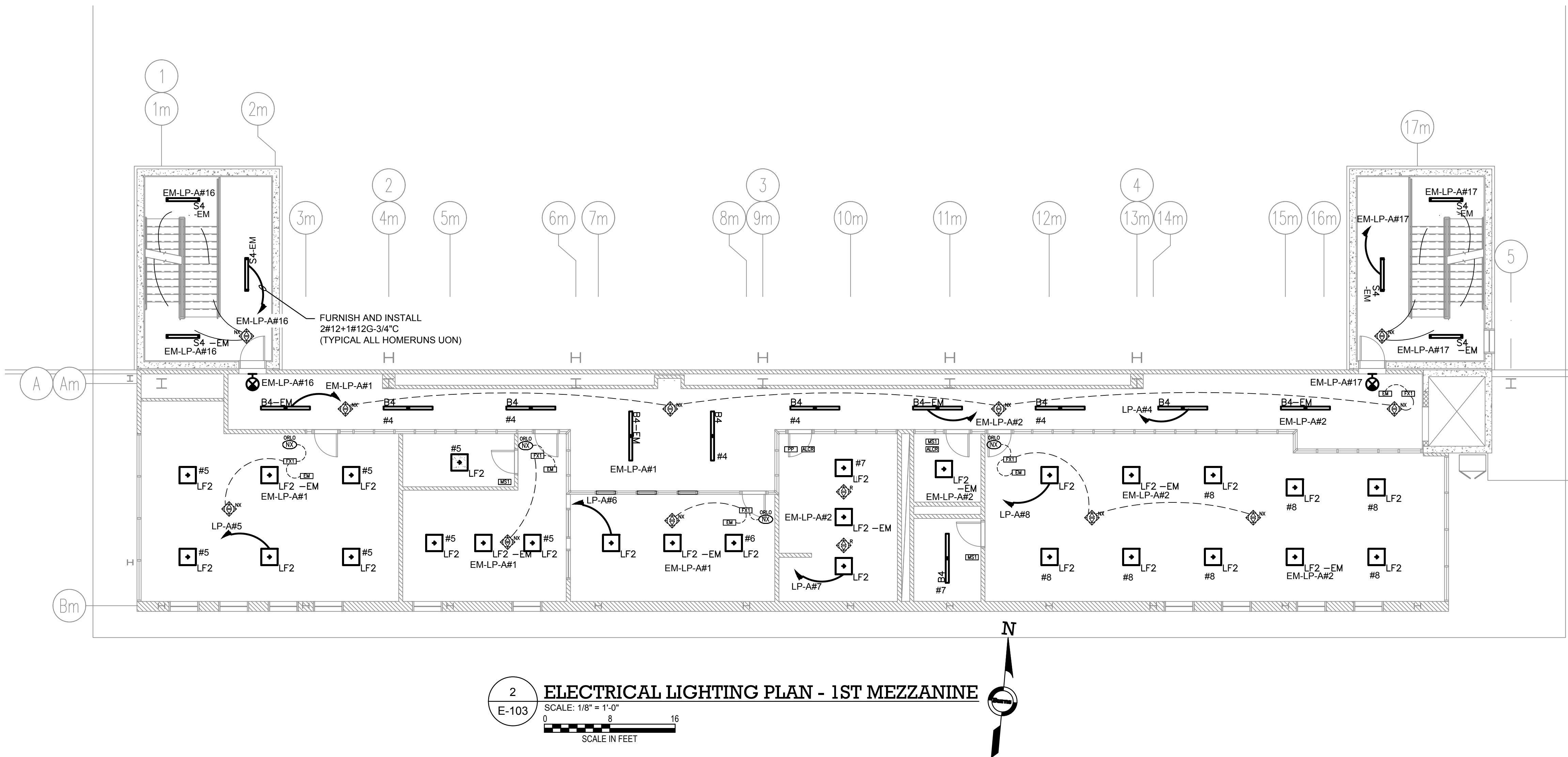
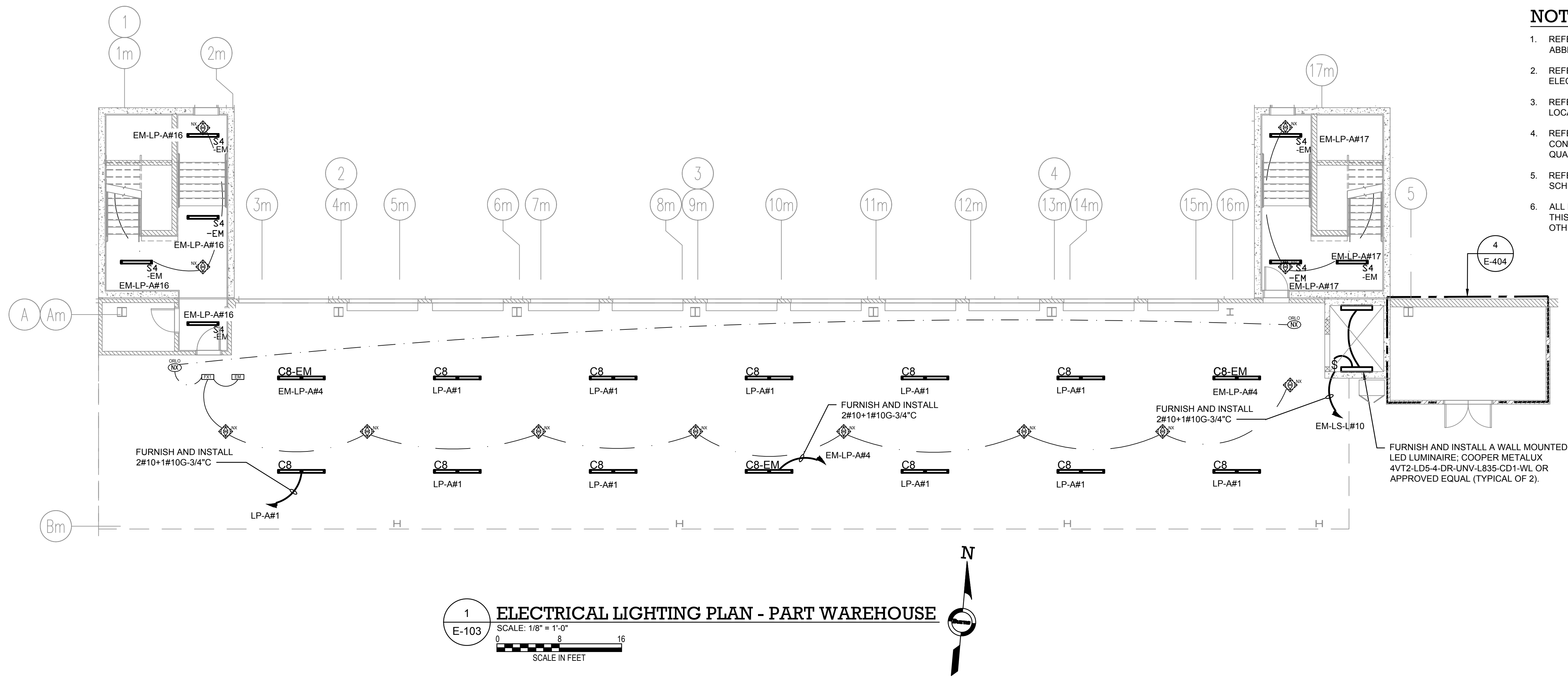
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DRAWING TITLE :
ELECTRICAL LIGHTING PLAN -
ASRS WAREHOUSE (SOUTH)

E-102

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
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- NOTES:**
1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
 2. REFER TO CONTRACT DRAWINGS E-701, E-702 AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION, AND SPECIFICATIONS OF LIGHTING FIXTURES.
 4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHTING CONTROL SYSTEM SPECIFICATIONS, DEVICE LAYOUT, AND QUANTITY OF CONTROL DEVICES.
 5. REFER TO CONTRACT DRAWING E-607 FOR LIGHTING FIXTURE SCHEDULE
 6. ALL LIGHTING FIXTURES LOCATED ON 1ST MEZZANINE AS SHOWN ON THIS DRAWING SHALL BE FED FROM PANEL 'LP-A' UNLESS OTHERWISE NOTED.

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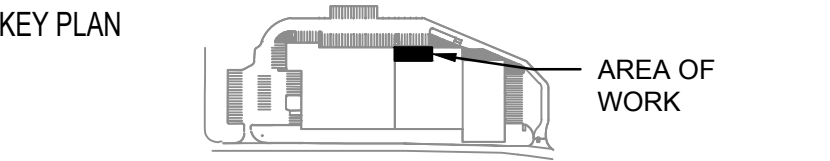
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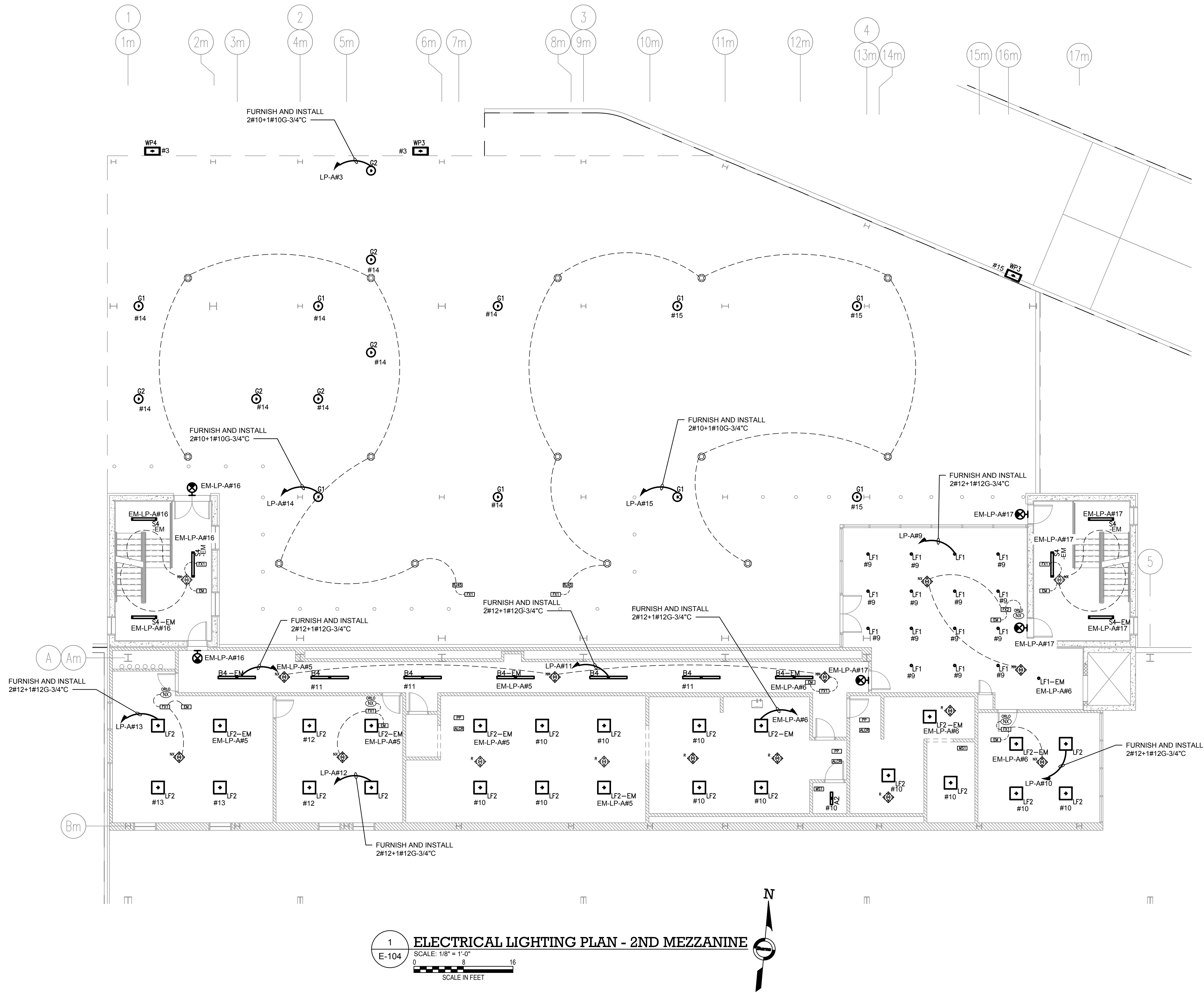
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DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**ELECTRICAL LIGHTING PLAN -
PART WAREHOUSE & 1ST
MEZZ.**

DWG NUMBER :
E-103

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.



NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702 AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION, AND SPECIFICATIONS OF LIGHTING FIXTURES.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHTING CONTROL SYSTEM SPECIFICATIONS, DEVICE LAYOUT, AND QUANTITY OF CONTROL DEVICES.
5. REFER TO CONTRACT DRAWING E-607 FOR LIGHTING FIXTURE SCHEDULE
6. ALL LIGHTING FIXTURES LOCATED ON 2ND MEZZANINE AS SHOWN ON THIS DRAWING SHALL BE FED FROM PANEL 'LP-A' UNLESS OTHERWISE NOTED.

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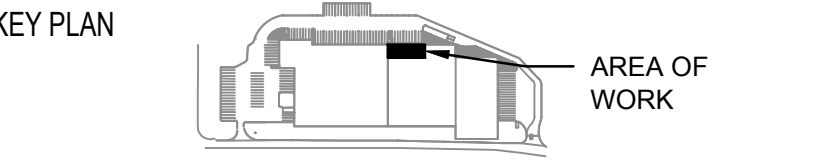
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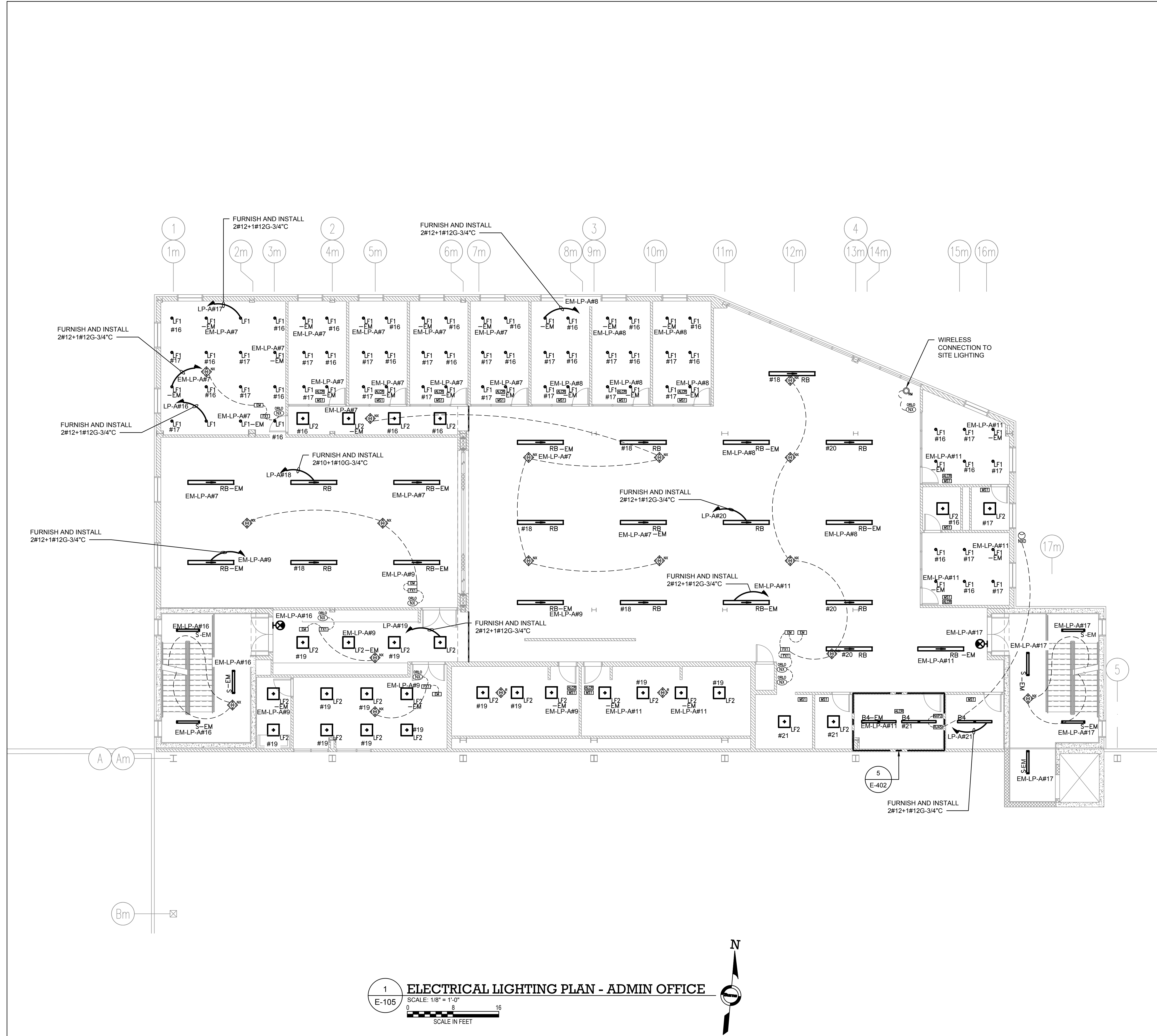
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	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**ELECTRICAL LIGHTING PLAN -
2ND MEZZANINE**

DWG NUMBER :
E-104

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.



NOTES:

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5. REFER TO CONTRACT DRAWING E-607 FOR LIGHTING FIXTURE SCHEDULE
6. ALL LIGHTING FIXTURES LOCATED IN ADMIN OFFICE AS SHOWN ON THIS DRAWING SHALL BE FED FROM PANEL 'LP-A' UNLESS OTHERWISE NOTED.

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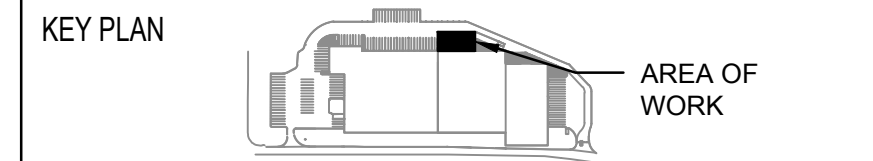
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	ISSUED FOR PROGRESS	01/18/2022

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CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**ELECTRICAL LIGHTING PLAN -
ADMIN OFFICE**

DWG NUMBER :
E-105

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

- NOTES:**
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 4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHTING CONTROL SYSTEM SPECIFICATIONS, DEVICE LAYOUT, AND QUANTITY OF CONTROL DEVICES.
 5. REFER TO CONTRACT DRAWING E-607 FOR LIGHTING FIXTURE SCHEDULE
 6. ALL LIGHTING FIXTURES LOCATED IN PARKING DECK AS SHOWN ON THIS DRAWING SHALL BE FED FROM PANEL 'LP-A' UNLESS OTHERWISE NOTED.

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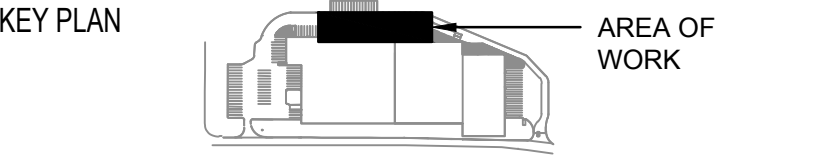
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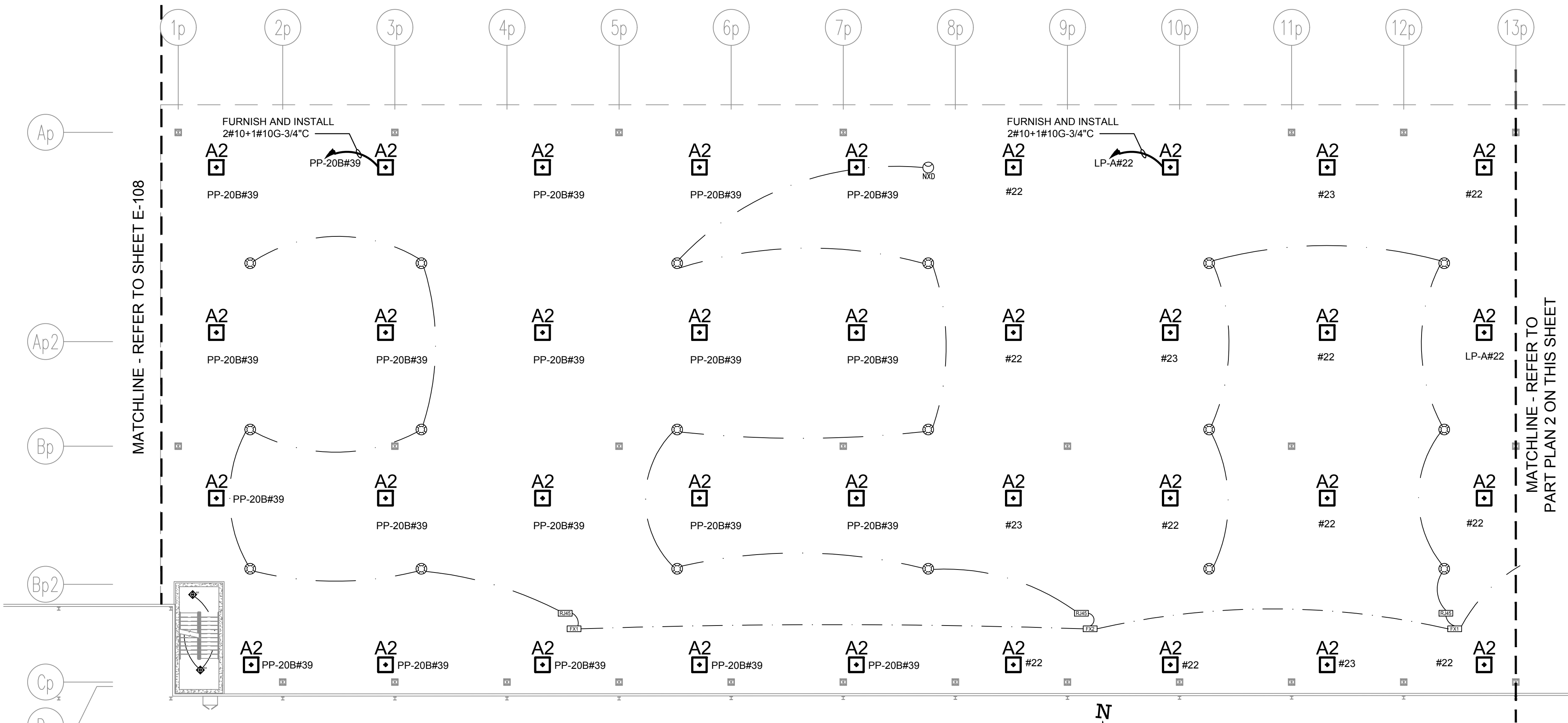
DRAWING TITLE :

**ELECTRICAL LIGHTING PLAN -
PARKING DECK**

DWG NUMBER :

E-106

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
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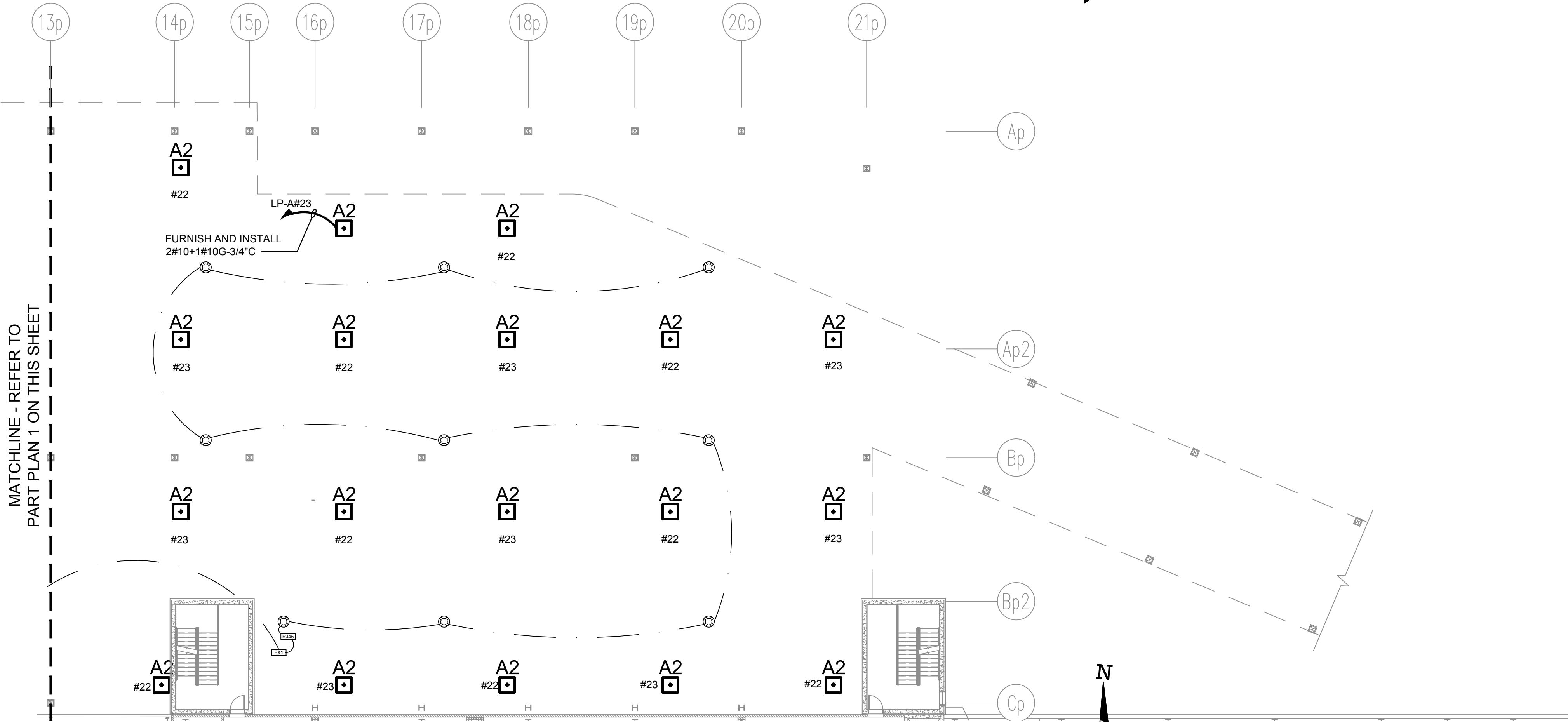


1 ELECTRICAL LIGHTING PLAN - PARKING DECK (WEST)

SCALE: 1/16" = 1'-0"

0 16 32

SCALE IN FEET



2 ELECTRICAL LIGHTING PLAN - PARKING DECK (EAST)

SCALE: 1/16" = 1'-0"

0 16 32

SCALE IN FEET



- NOTES:**
1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
 2. REFER TO CONTRACT DRAWINGS E-701, E-702 AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAMS.
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 4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHTING CONTROL SYSTEM SPECIFICATIONS, DEVICE LAYOUT, AND QUANTITY OF CONTROL DEVICES.
 5. REFER TO CONTRACT DRAWING E-607 FOR LIGHTING FIXTURE SCHEDULE

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	ISSUED FOR PROGRESS	01/18/2022

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DATE :
SCALE :

ELECTRICAL LIGHTING PLAN -
ADMIN ROOF

DWG NUMBER :

E-107

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

1. REFER TO PART PLANS 2, 3 AND 4 ON THIS DRAWING FOR STAIR AND ELECTRICAL LIGHTING PLANS.

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAMS.
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5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHTING CONTROL SYSTEM SPECIFICATIONS, DEVICE LAYOUT, AND QUANTITY OF CONTROL DEVICES.

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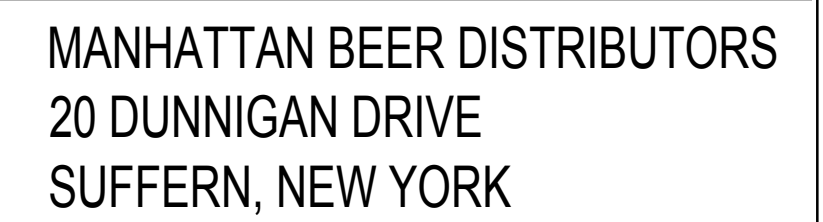


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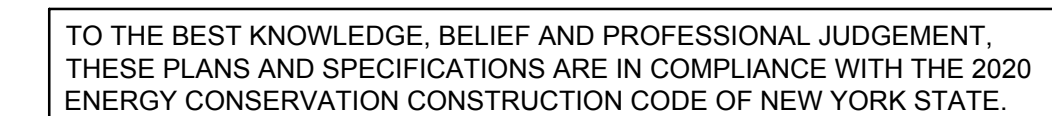
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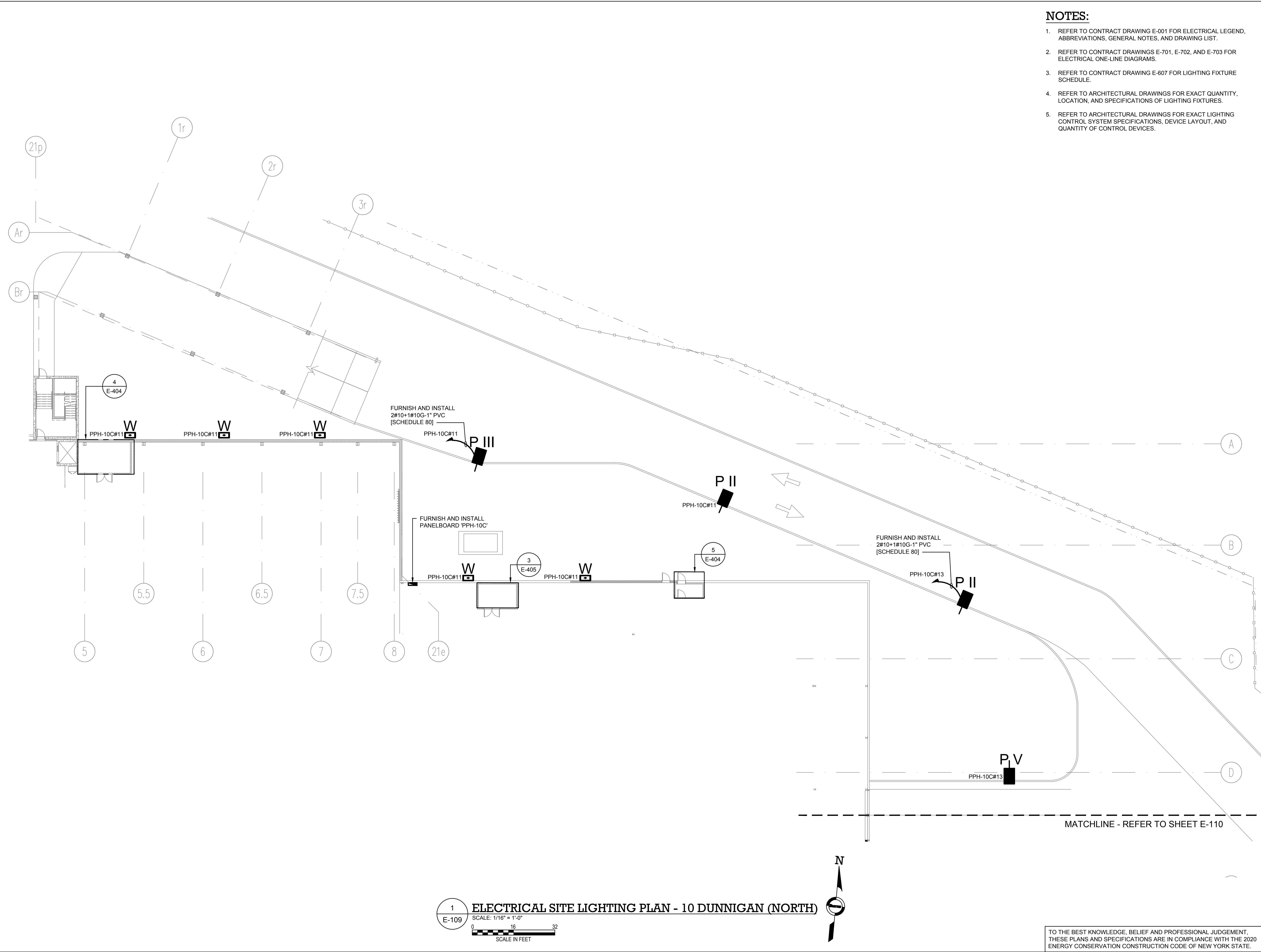


A diagram of a building cross-section. A black rectangular area is highlighted on the roof, with an arrow pointing to it from the text "AREA OF WORK".

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APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

E-108





NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
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KEY PLAN

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	ISSUED FOR PROGRESS	01/18/2022

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APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**ELECTRICAL SITE LIGHTING
PLAN - 10 DUNNIGAN (NORTH)**

DWG NUMBER :
E-109

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
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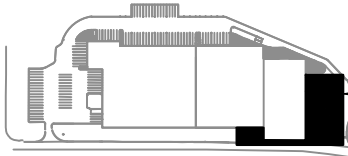
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APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL SITE LIGHTING
PLAN - 10 DUNNIGAN (SOUTH)

DWG NUMBER :
E-110

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
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1
E-110

ELECTRICAL SITE LIGHTING PLAN - 10 DUNNIGAN (SOUTH)

SCALE: 1/16" = 1'-0"

0 16 32
SCALE IN FEET



NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
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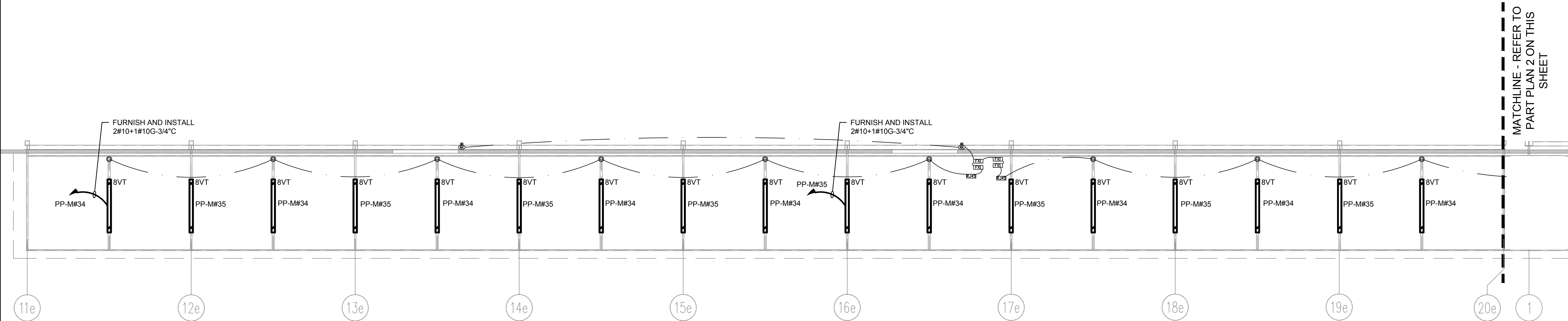
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CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL LIGHTING PLAN -
CANOPY

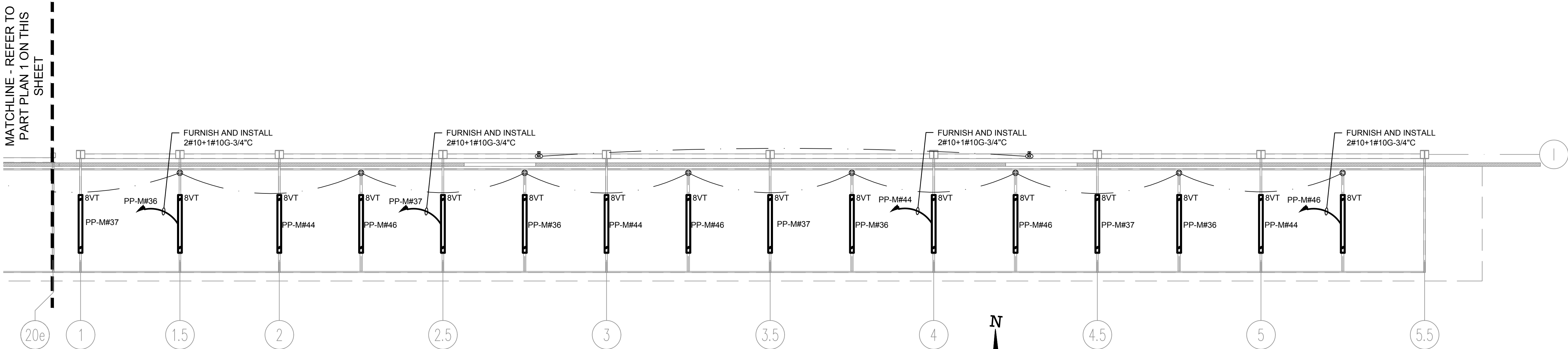
DWG NUMBER :

E-111

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THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
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1
E-111
ELECTRICAL LIGHTING PLAN - PART CANOPY
SCALE: 1/8" = 1'-0"
0 8 16
SCALE IN FEET



2
E-111
ELECTRICAL LIGHTING PLAN - PART CANOPY
SCALE: 1/8" = 1'-0"



NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY AND LOCATIONS OF RECEPTACLES AND DATA OUTLETS.
4. REFER TO AS/RS MANUFACTURER DRAWINGS FOR EXACT REQUIREMENTS OF AS/RS EQUIPMENT.

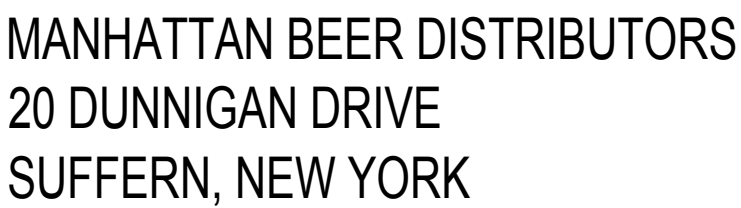
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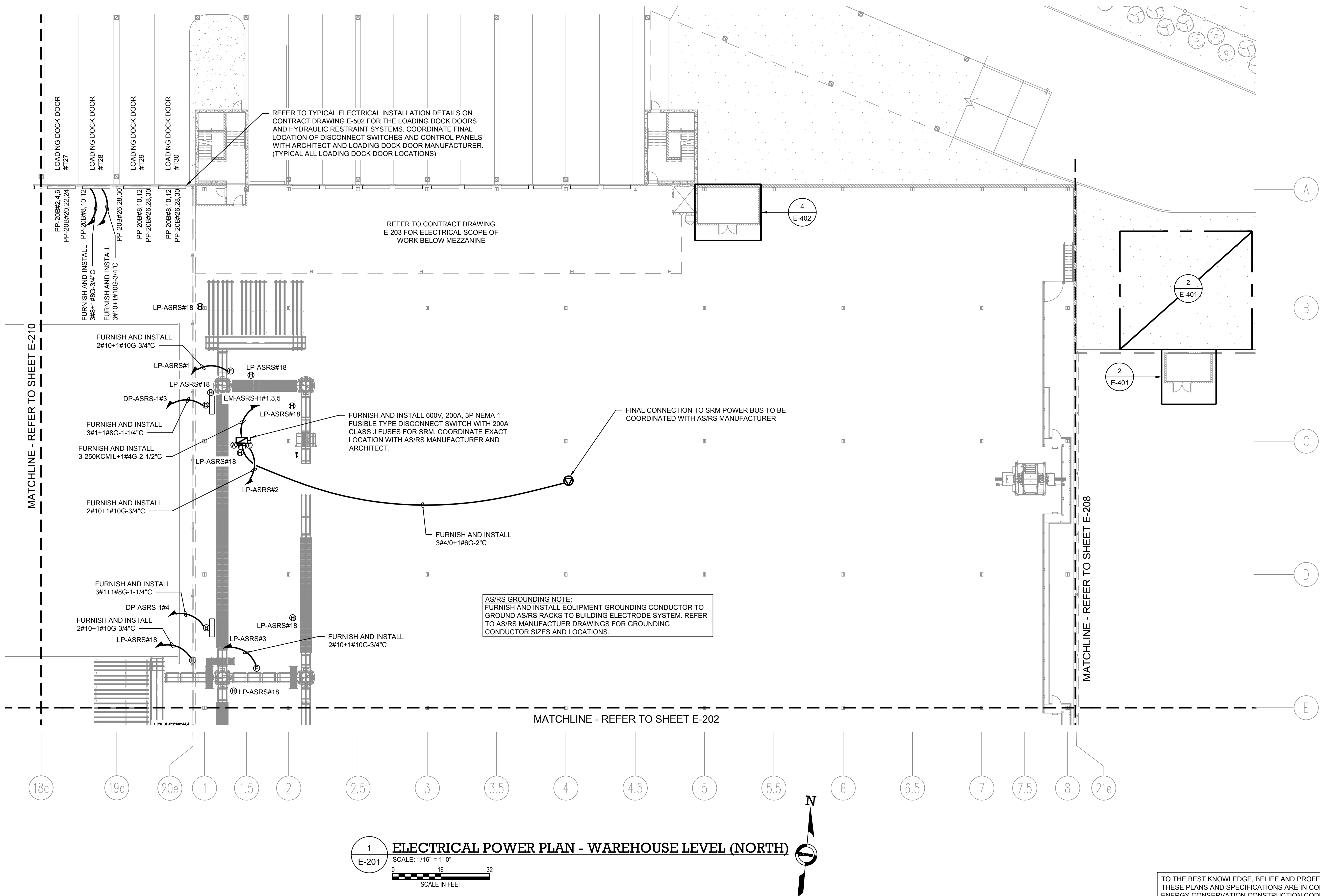
DRAWING TITLE:

ELECTRICAL POWER PLAN -
WAREHOUSE LEVEL (NORTH)

DWG NUMBER :

E-201

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
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AS/RS SYSTEM LEGEND	
SYMBOL	DESCRIPTION
(A)	SRM
(G)	VRC
(B)	MCP
(F)	CONTROL PANEL
(H)	MAINTENANCE RECEPTACLES
(1)	DATA CONNECTION
NOTE: REFER TO AS/RS MANUFACTURER DRAWINGS FOR EXACT POWER REQUIREMENTS AND LOCATIONS OF AS/RS MACHINES AND EQUIPMENT	

NOTES:

- REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
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AREA OF WORK

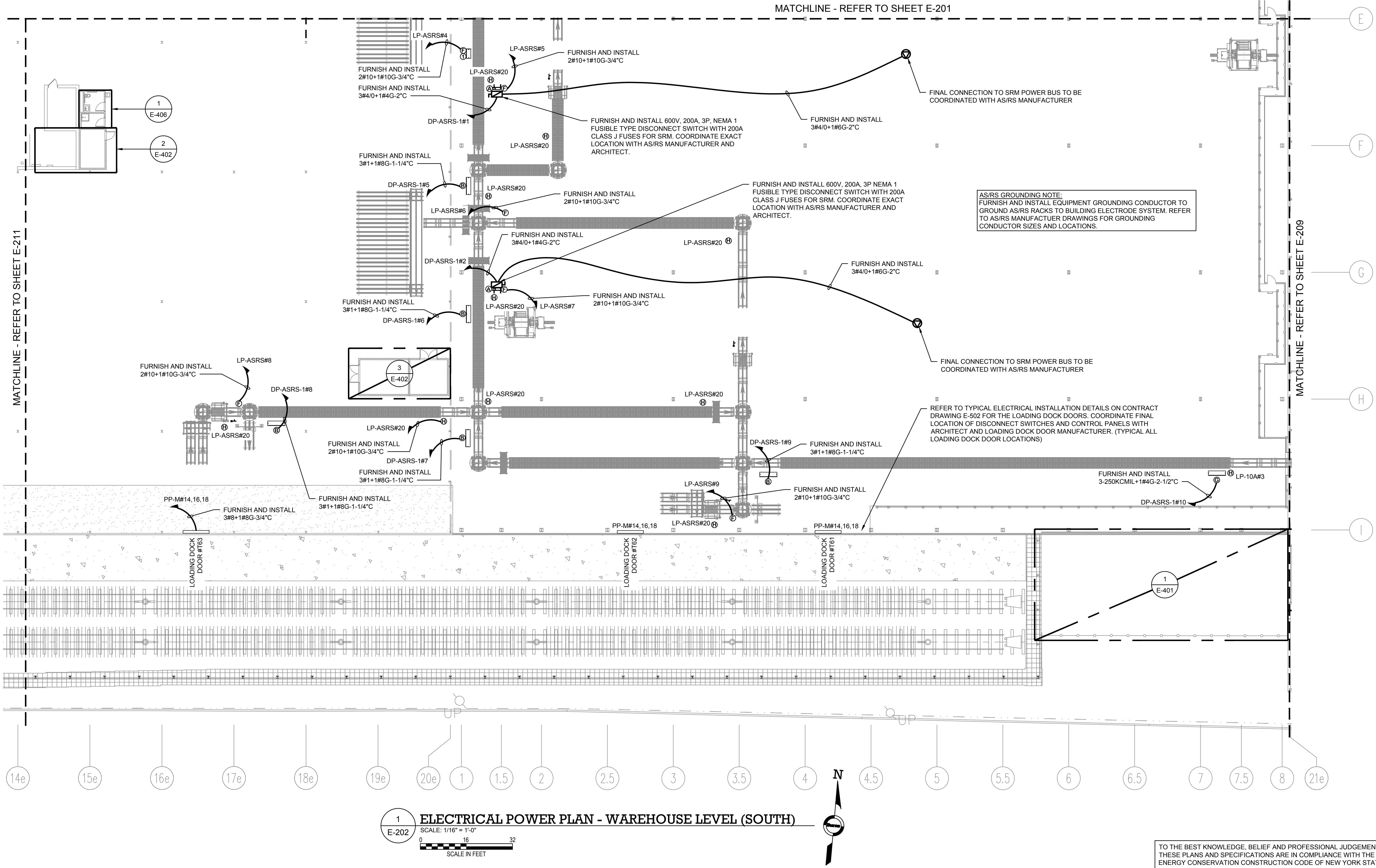
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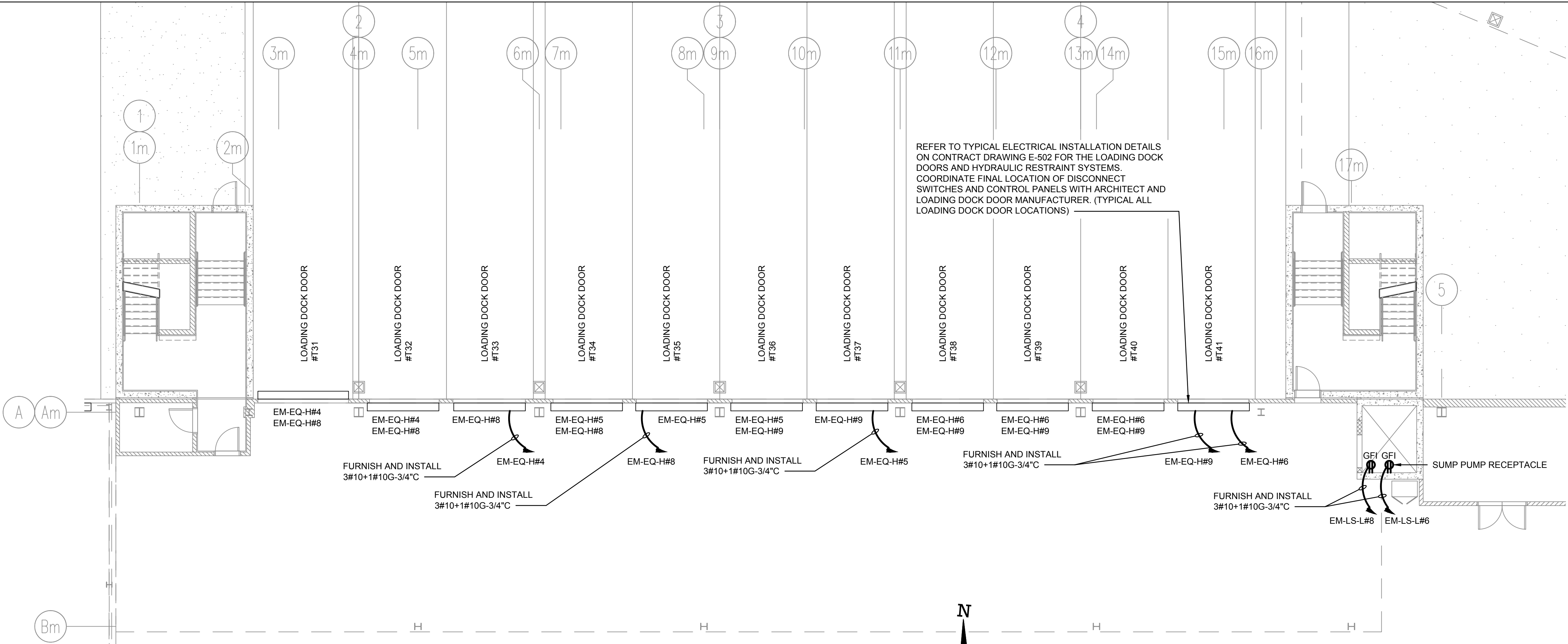
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CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL POWER PLAN -
WAREHOUSE LEVEL (SOUTH)

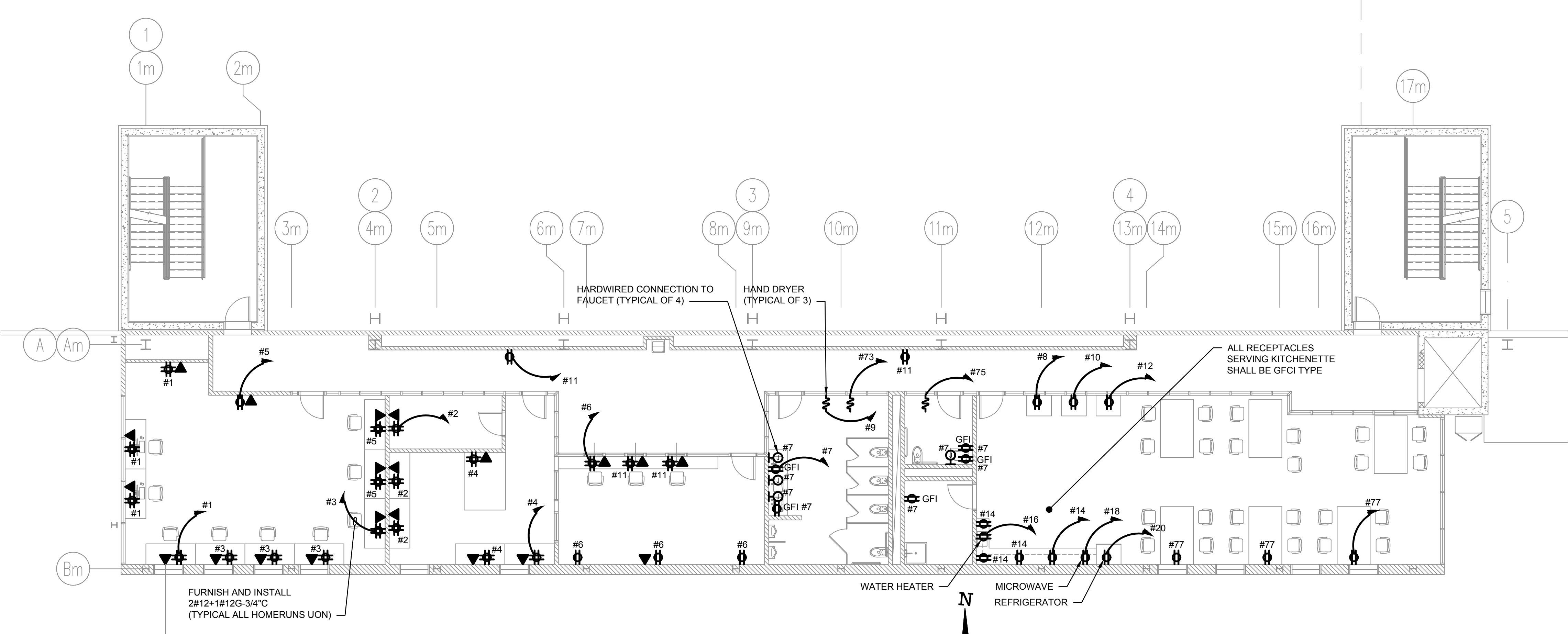
DWG NUMBER :
E-202

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.





1
E-203
ELECTRICAL POWER PLAN - PART WAREHOUSE
SCALE: 1/8" = 1'-0"
0 8 16
SCALE IN FEET



2
E-203
ELECTRICAL POWER PLAN - 1ST MEZZANINE
SCALE: 1/8" = 1'-0"
0 8 16
SCALE IN FEET

- NOTES:**
1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
 2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY AND LOCATIONS OF RECEPTACLES AND DATA OUTLETS.
 4. ALL RECEPTACLES AND EQUIPMENT LOCATED ON 1ST MEZZANINE AS SHOWN ON THIS DRAWING SHALL BE FED FROM PANEL 'PP-A' UNLESS OTHERWISE NOTED.

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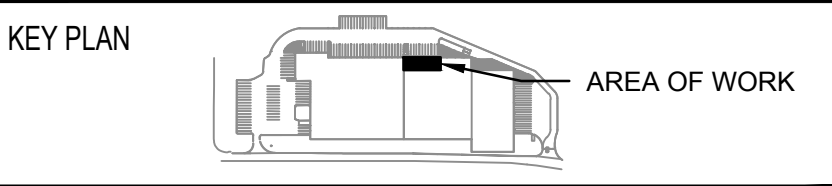
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	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**ELECTRICAL POWER PLAN -
PART WAREHOUSE & 1ST
MEZZ.**

DWG NUMBER :
E-203

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY AND LOCATIONS OF RECEPTACLES AND DATA OUTLETS.
4. ALL RECEPTACLES AND EQUIPMENT SHOWN ON THIS DRAWING SHALL BE FED FROM PANEL 'PP-A' UNLESS OTHERWISE NOTED.

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SUFFERN, NEW YORK

KEY PLAN

AREA OF WORK

REV	DESCRIPTION	DATE
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	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

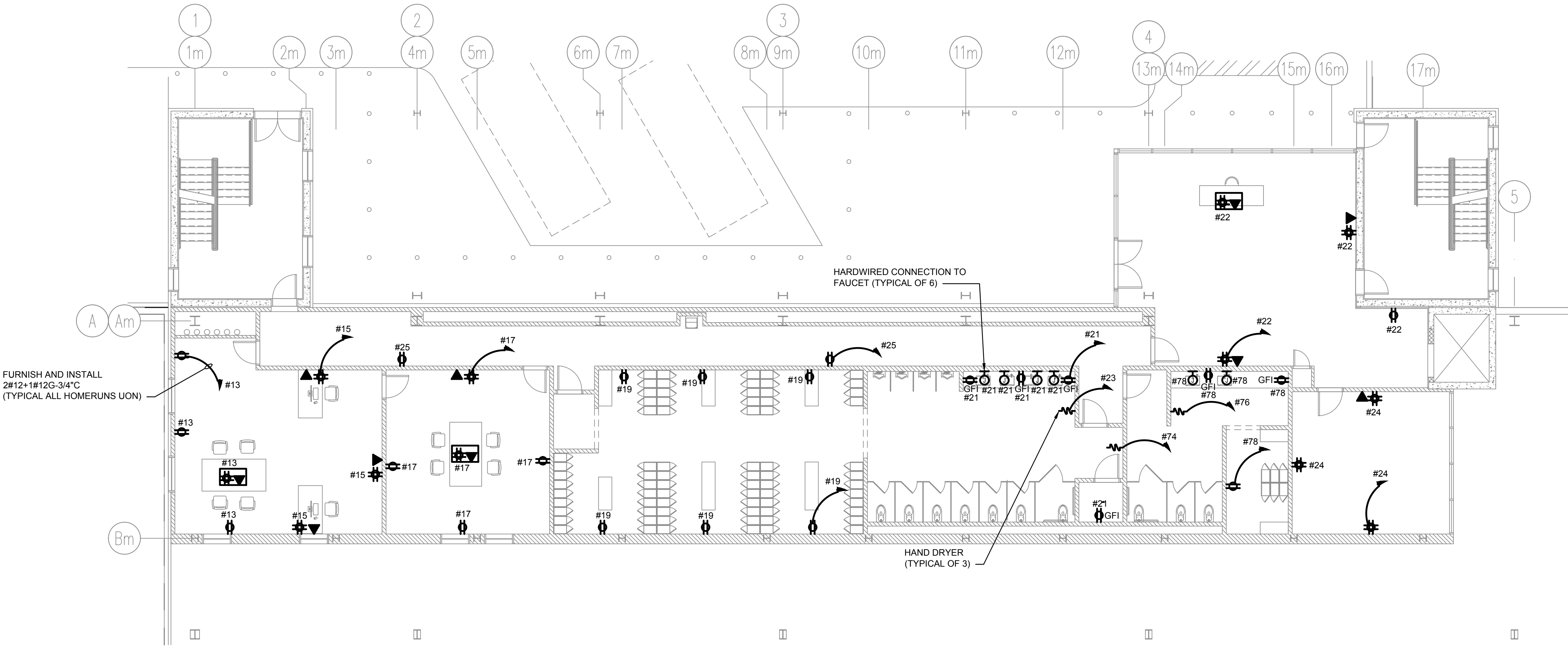
DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL POWER PLAN -
2ND MEZZANINE

DWG NUMBER :

E-204

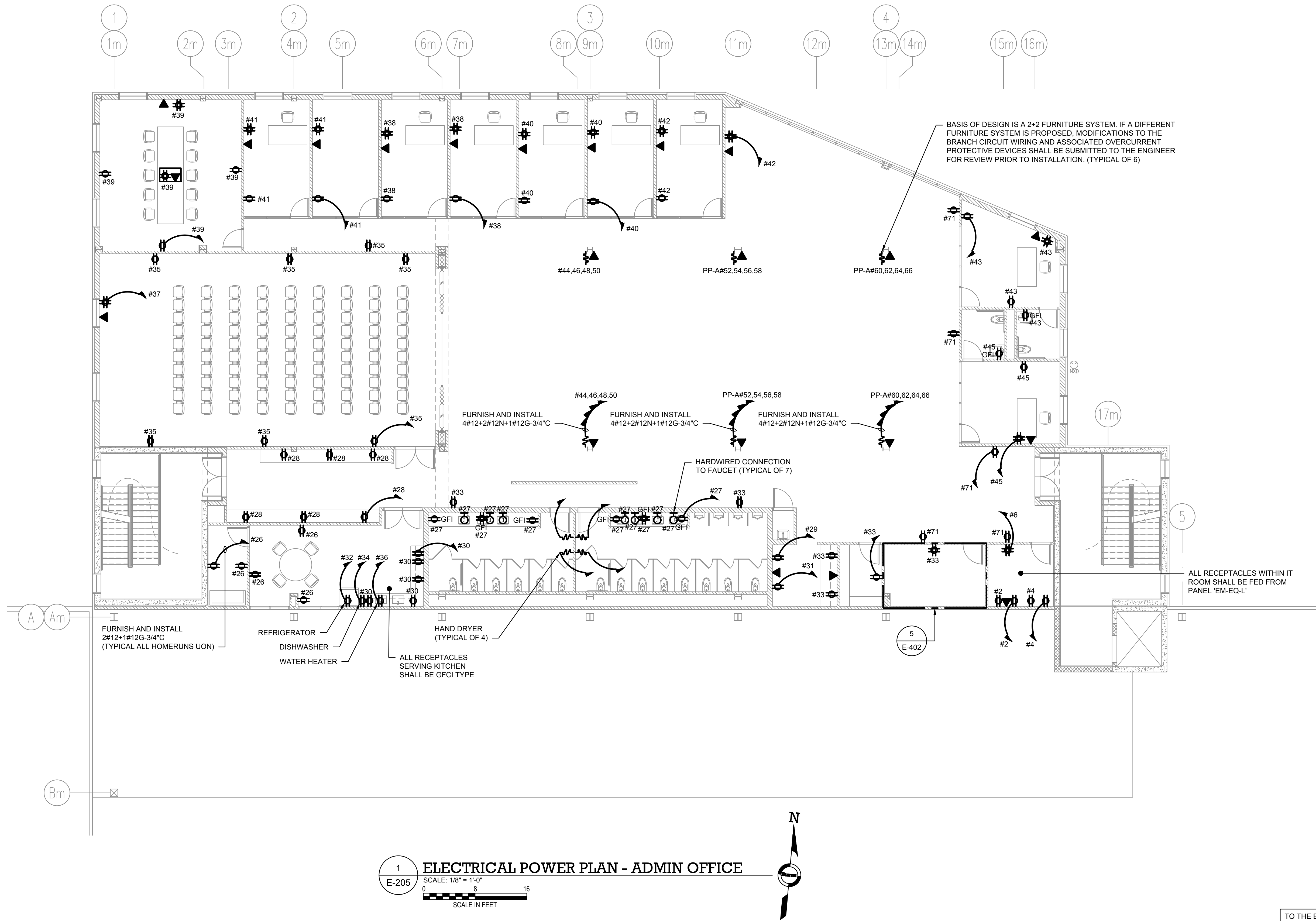
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THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.



1
E-204

ELECTRICAL POWER PLAN - 2ND MEZZANINE

SCALE: 1/8" = 1'-0"
0 8 16
SCALE IN FEET



NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM AND ELECTRICAL REQUIREMENTS OF EQUIPMENT.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY AND LOCATIONS OF RECEPTACLES AND DATA OUTLETS.
4. ALL RECEPTACLES AND EQUIPMENT SHOWN ON THIS DRAWING SHALL BE FED FROM PANEL 'PP-A' UNLESS OTHERWISE NOTED.

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KEY PLAN
AREA OF WORK

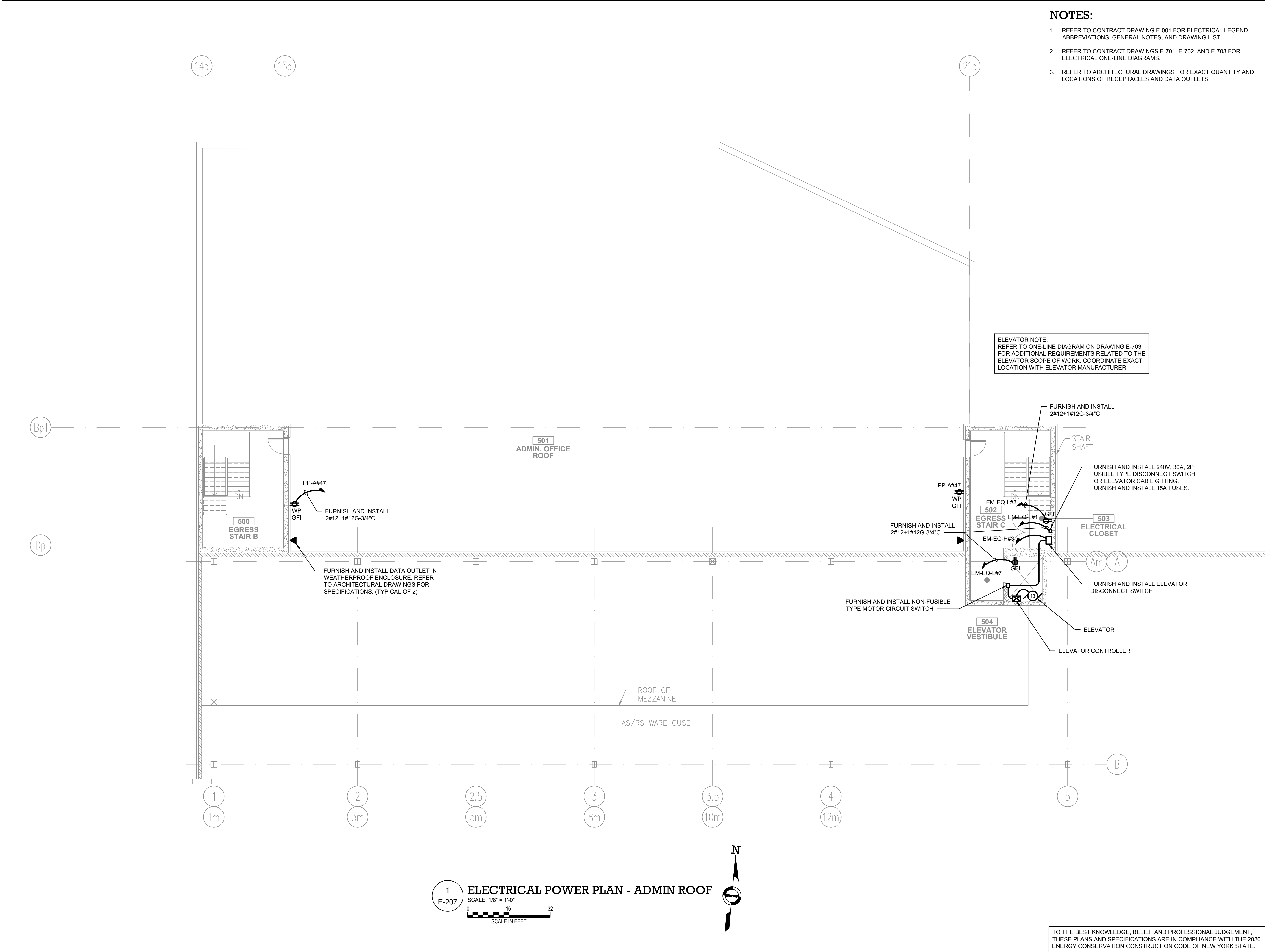
REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**ELECTRICAL POWER PLAN -
ADMIN OFFICE**

DWG NUMBER :
E-205

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
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	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY : M.DIMATTIA

CHECKED BY : B.NEMCHEK

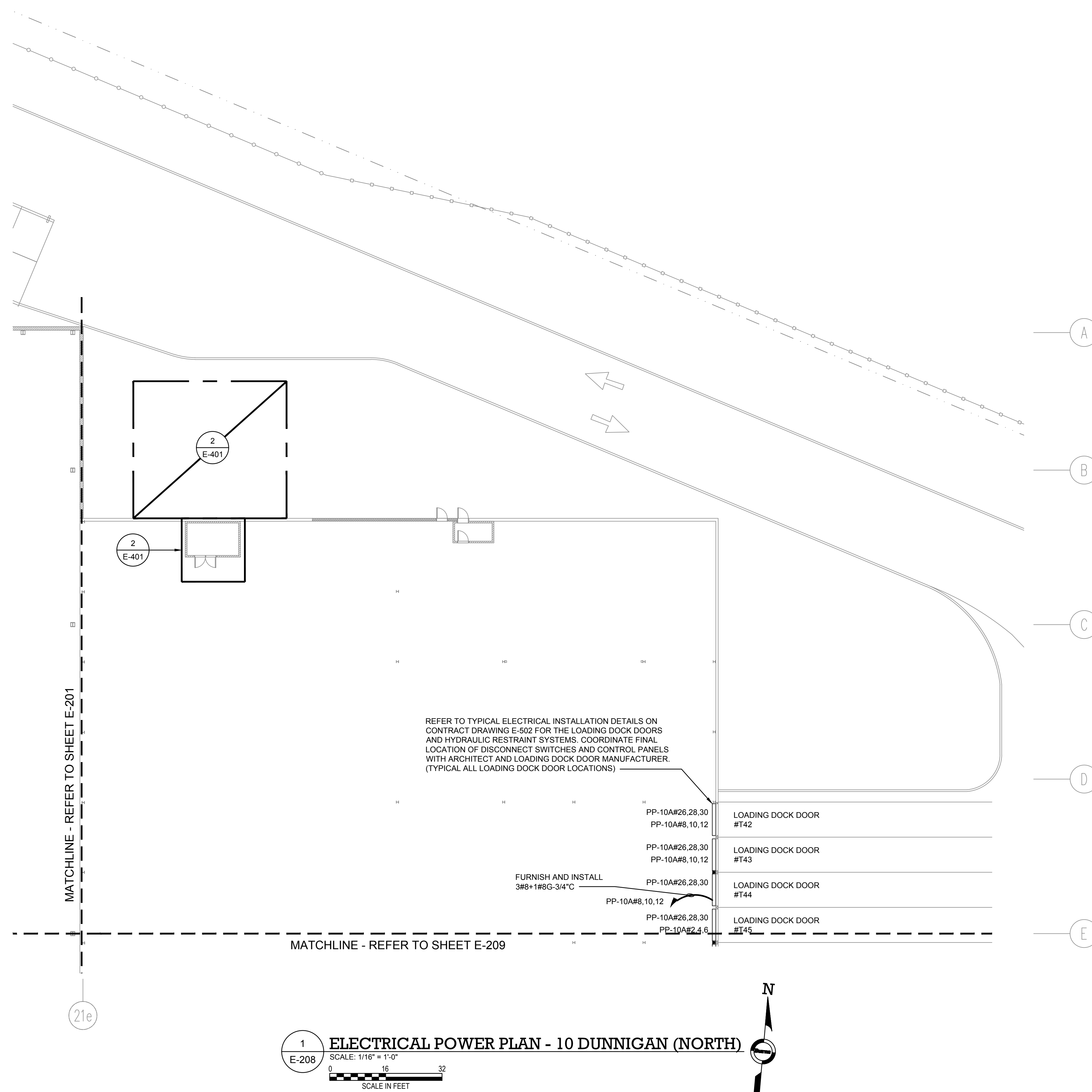
APPROVED BY : J.MIZRAHI

DATE : 09/10/21

SCALE : AS NOTED

DRAWING TITLE :
**ELECTRICAL POWER PLAN -
ADMIN ROOF**

DWG NUMBER :
E-207



- NOTES:**
1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
 2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY AND LOCATIONS OF RECEPTACLES AND DATA OUTLETS.
 4. REFER TO AS/RS MANUFACTURER DRAWINGS FOR EXACT REQUIREMENTS OF AS/RS EQUIPMENT.

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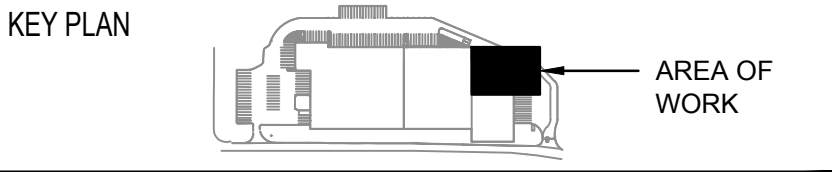
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	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :

**ELECTRICAL POWER PLAN - 10
DUNNIGAN (NORTH)**

DWG NUMBER :

E-208

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

AS/RS SYSTEM LEGEND	
SYMBOL	DESCRIPTION
(A)	SRM
(G)	VRC
(B)	MCP
(F)	CONTROL PANEL
(H)	MAINTENANCE RECEPTACLES
(1)	DATA CONNECTION
NOTE: REFER TO AS/RS MANUFACTURER DRAWINGS FOR EXACT POWER REQUIREMENTS AND LOCATIONS OF AS/RS MACHINES AND EQUIPMENT	

NOTES:

- REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
- REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY AND LOCATIONS OF RECEPTACLES AND DATA OUTLETS.
- REFER TO AS/RS MANUFACTURER DRAWINGS FOR EXACT REQUIREMENTS OF AS/RS EQUIPMENT.

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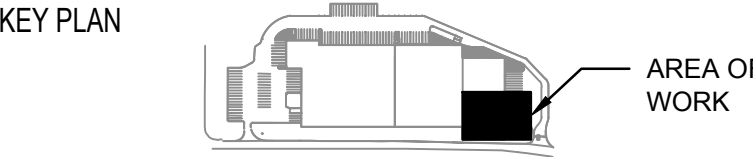
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REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

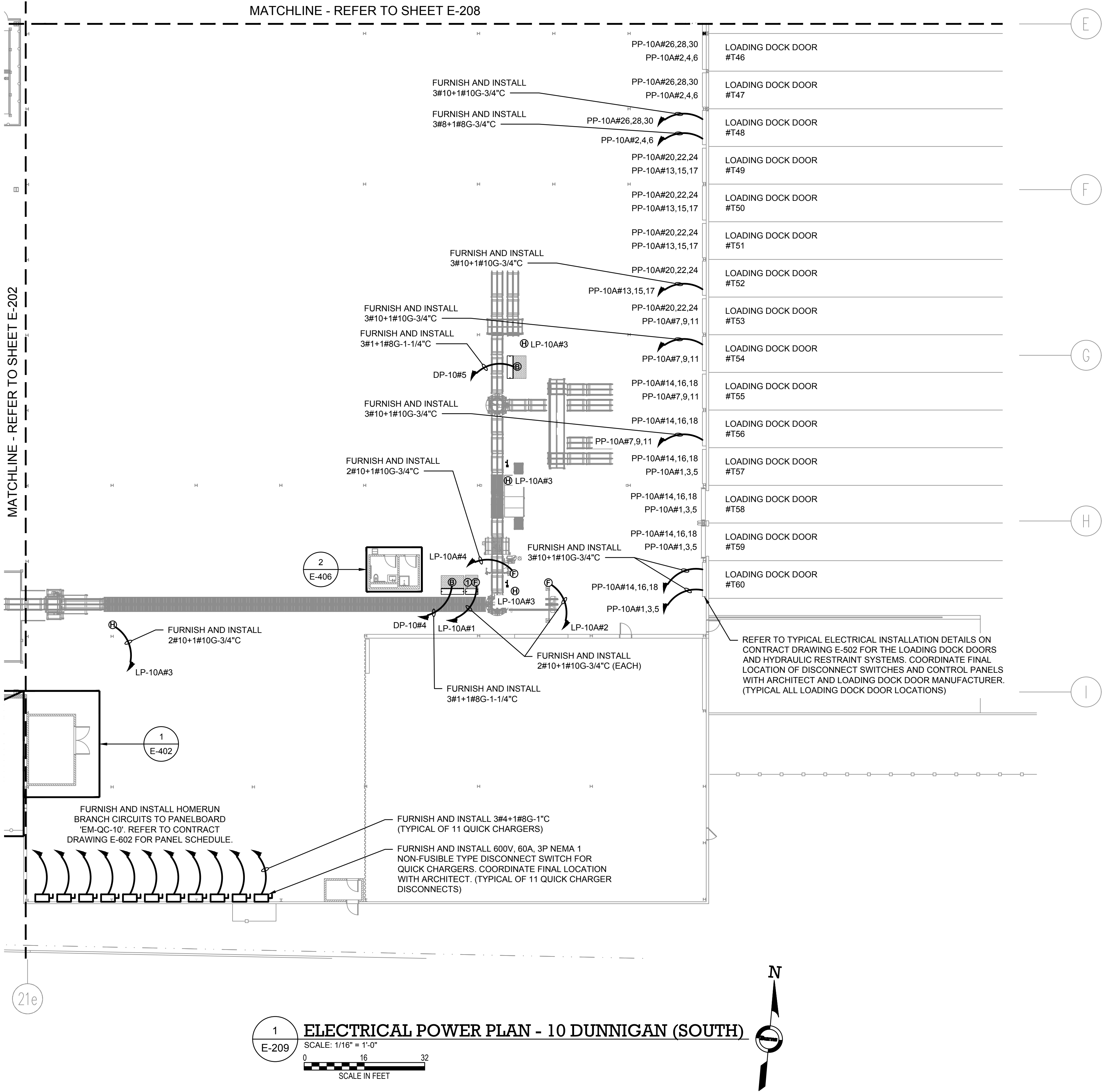
DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHECK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL POWER PLAN - 10
DUNNIGAN (SOUTH)

DWG NUMBER :

E-209

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.



NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY AND LOCATIONS OF RECEPTACLES AND DATA OUTLETS.
4. REFER TO AS/RS MANUFACTURER DRAWINGS FOR EXACT REQUIREMENTS OF AS/RS EQUIPMENT.

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SUFFERN, NEW YORK

KEY PLAN

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	ISSUED FOR DOB SUBMISSION	09/10/2021
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	ISSUED FOR PROGRESS	01/18/2022

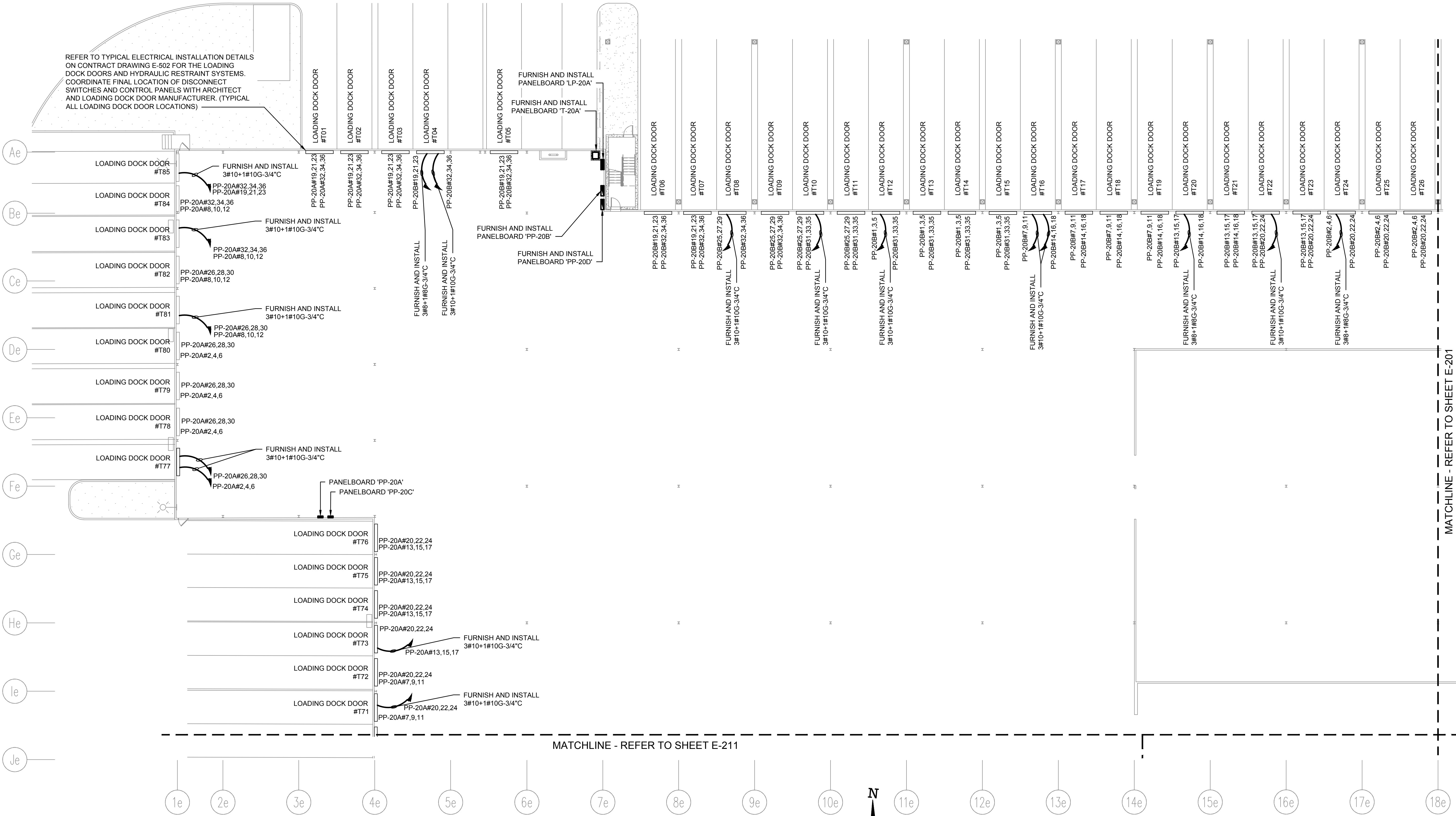
DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL POWER PLAN - 20 DUNNIGAN (NORTH)

DWG NUMBER :

E-210

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

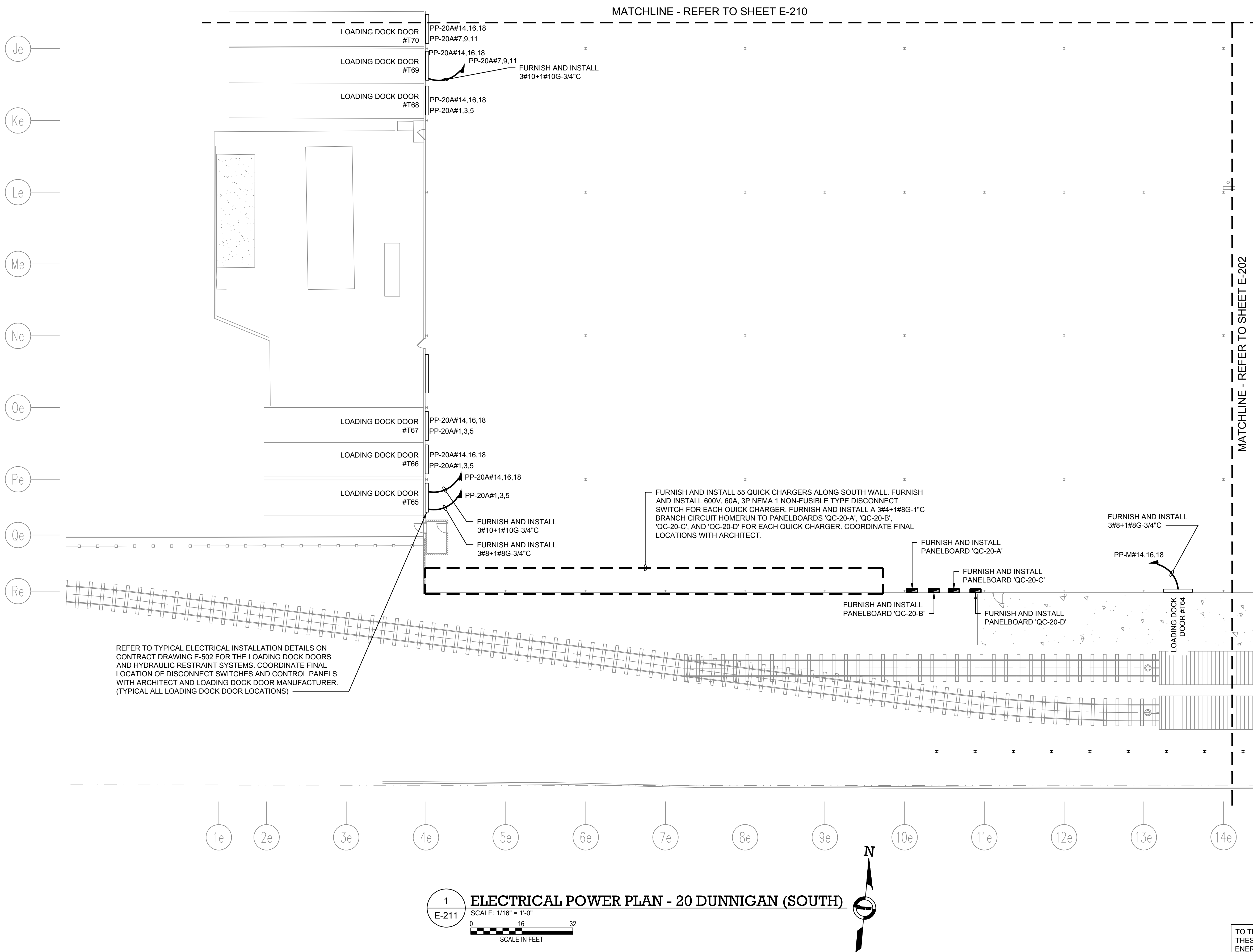


1
E-210

ELECTRICAL POWER PLAN - 20 DUNNIGAN (NORTH)

SCALE: 1/16" = 1'-0"

0 16 32
SCALE IN FEET



NOTES:

- REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
- REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAMS.
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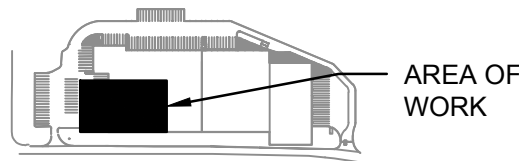
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KEY PLAN



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	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL POWER PLAN - 20 DUNNIGAN (SOUTH)

DWG NUMBER :

E-211

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
3. REFER TO MECHANICAL CONTRACT DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT.

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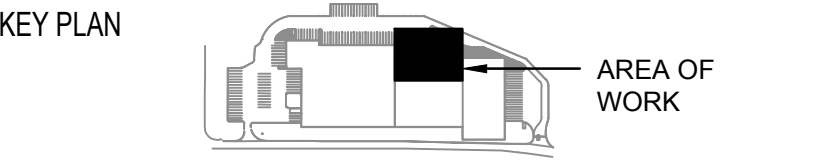
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REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

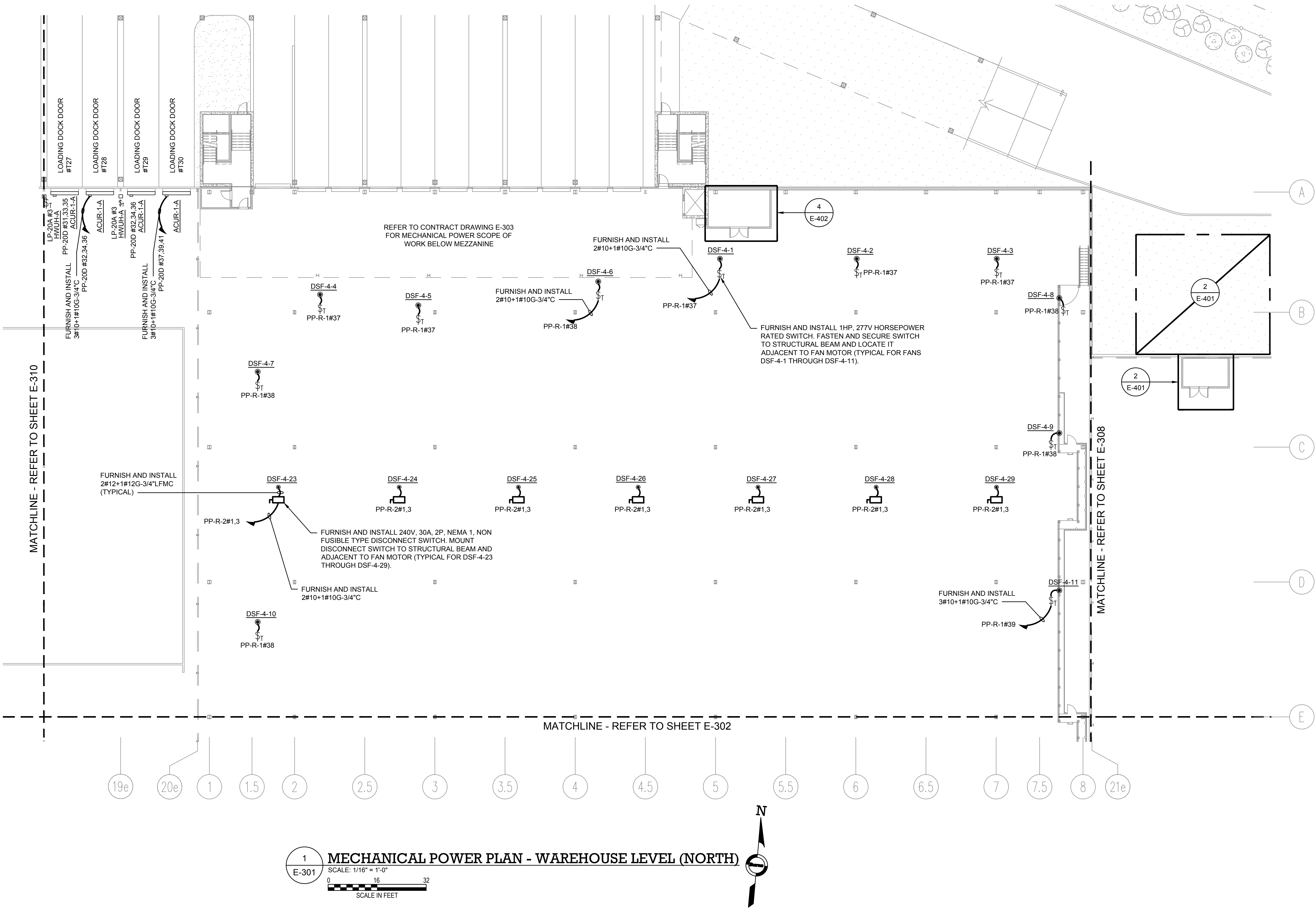
DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**MECHANICAL POWER PLAN -
WAREHOUSE LEVEL (NORTH)**

DWG NUMBER :

E-301

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.



1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAMS.
3. REFER TO MECHANICAL CONTRACT DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT.

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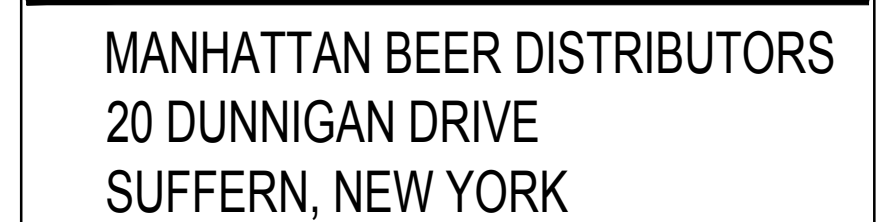


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GEI  **Consultants**

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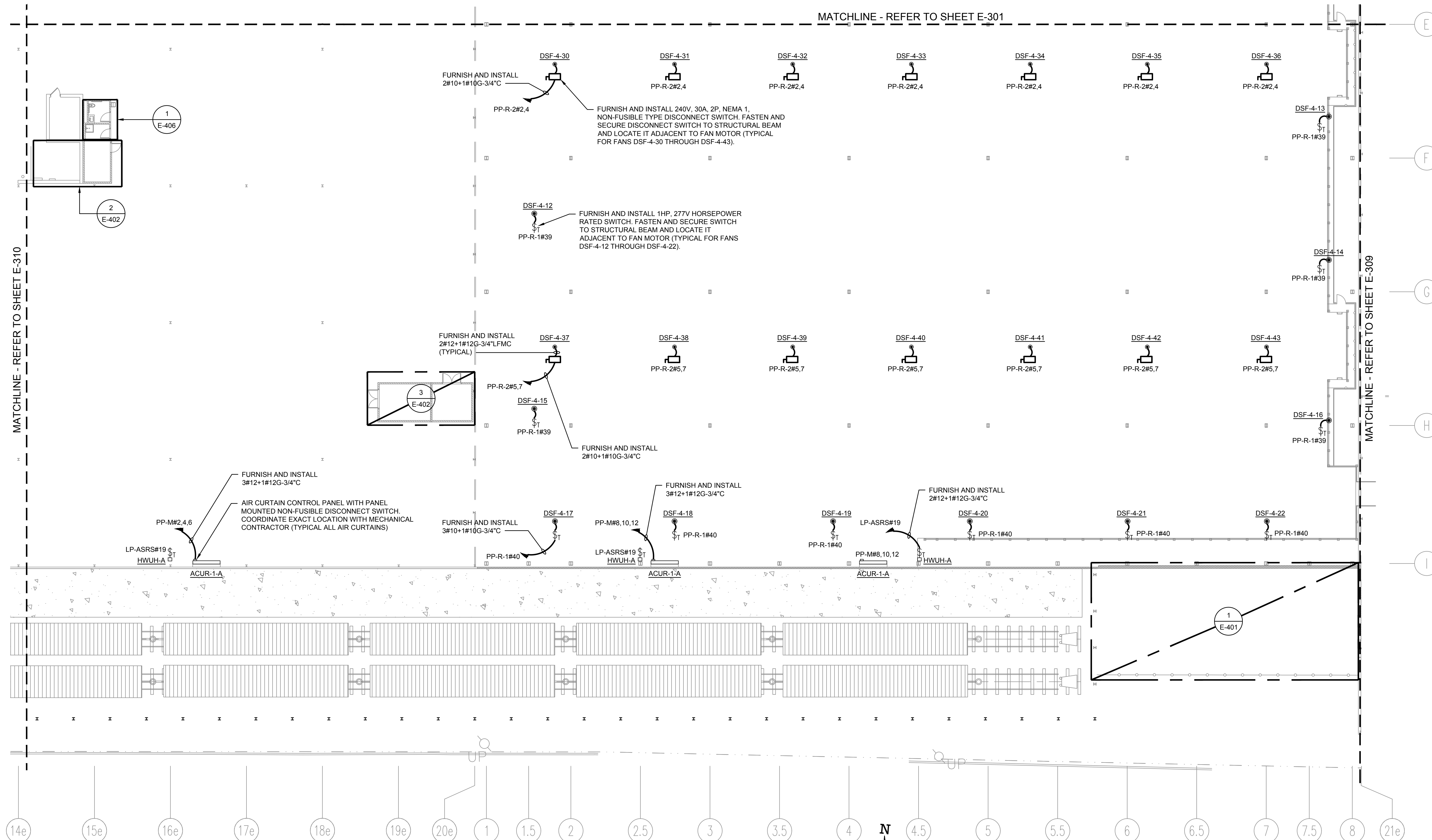
A line drawing of a vehicle's interior from the driver's side. A black rectangular box is placed on the floor in the center of the cabin. An arrow points from the text 'AREA OF WORK' to this box.

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

SCALE :	AS NOTED
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MECHANICAL POWER PLAN -
WAREHOUSE LEVEL (SOUTH)

E-302

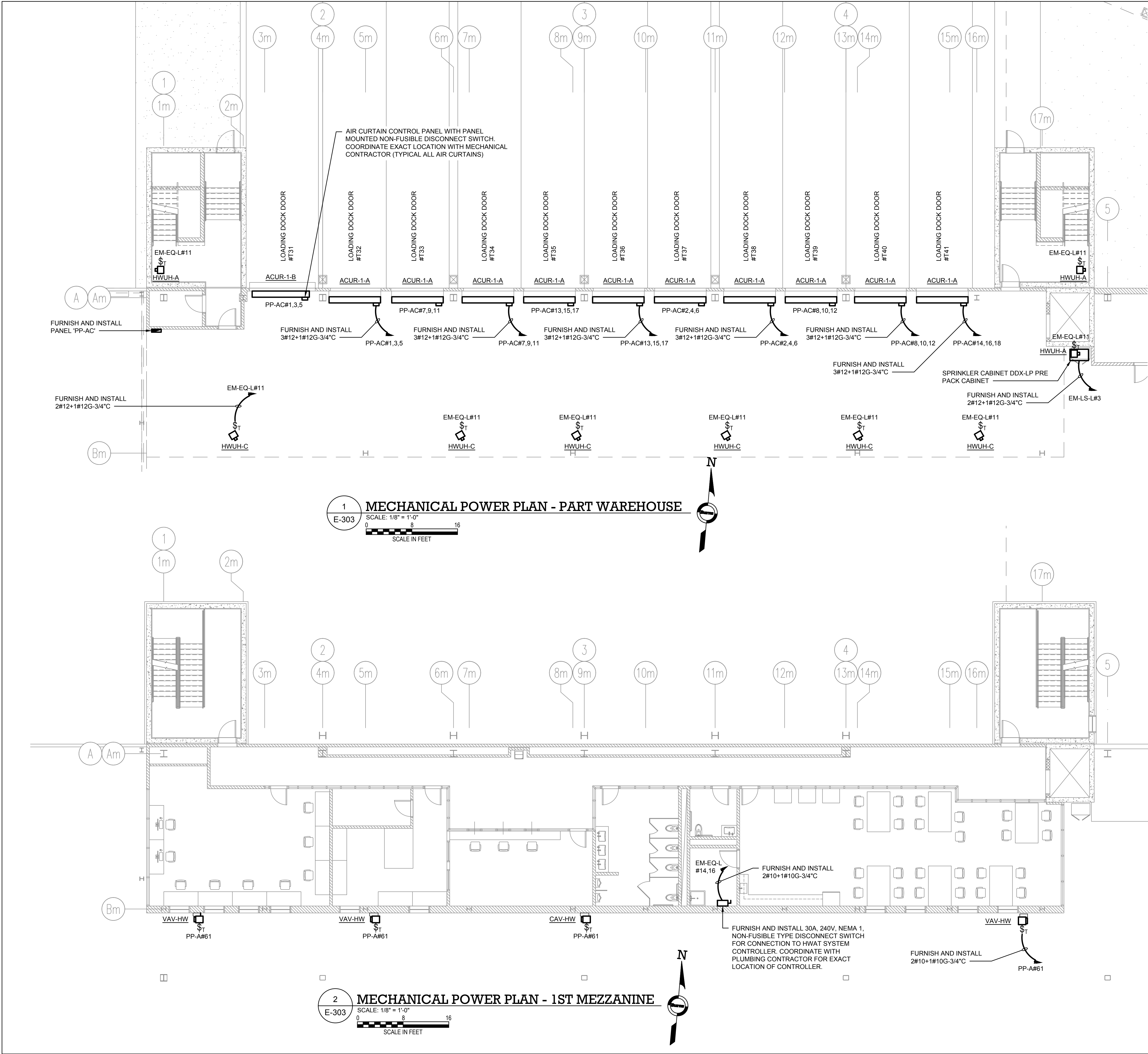


E-302 SCALE: 1/16" = 1'-0"

0 16 32

SCALE IN FEET

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
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NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
3. REFER TO MECHANICAL CONTRACT DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT.

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Tel 212-962-3503

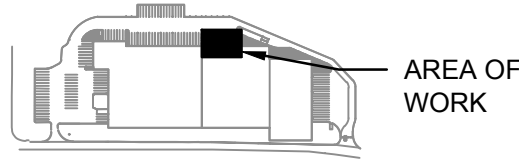
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KEY PLAN



REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**MECHANICAL POWER PLAN -
PART WAREHOUSE & 1ST
MEZZ.**

DWG NUMBER :
E-303

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
3. REFER TO MECHANICAL CONTRACT DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT.

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KEY PLAN

AREA OF
WORK

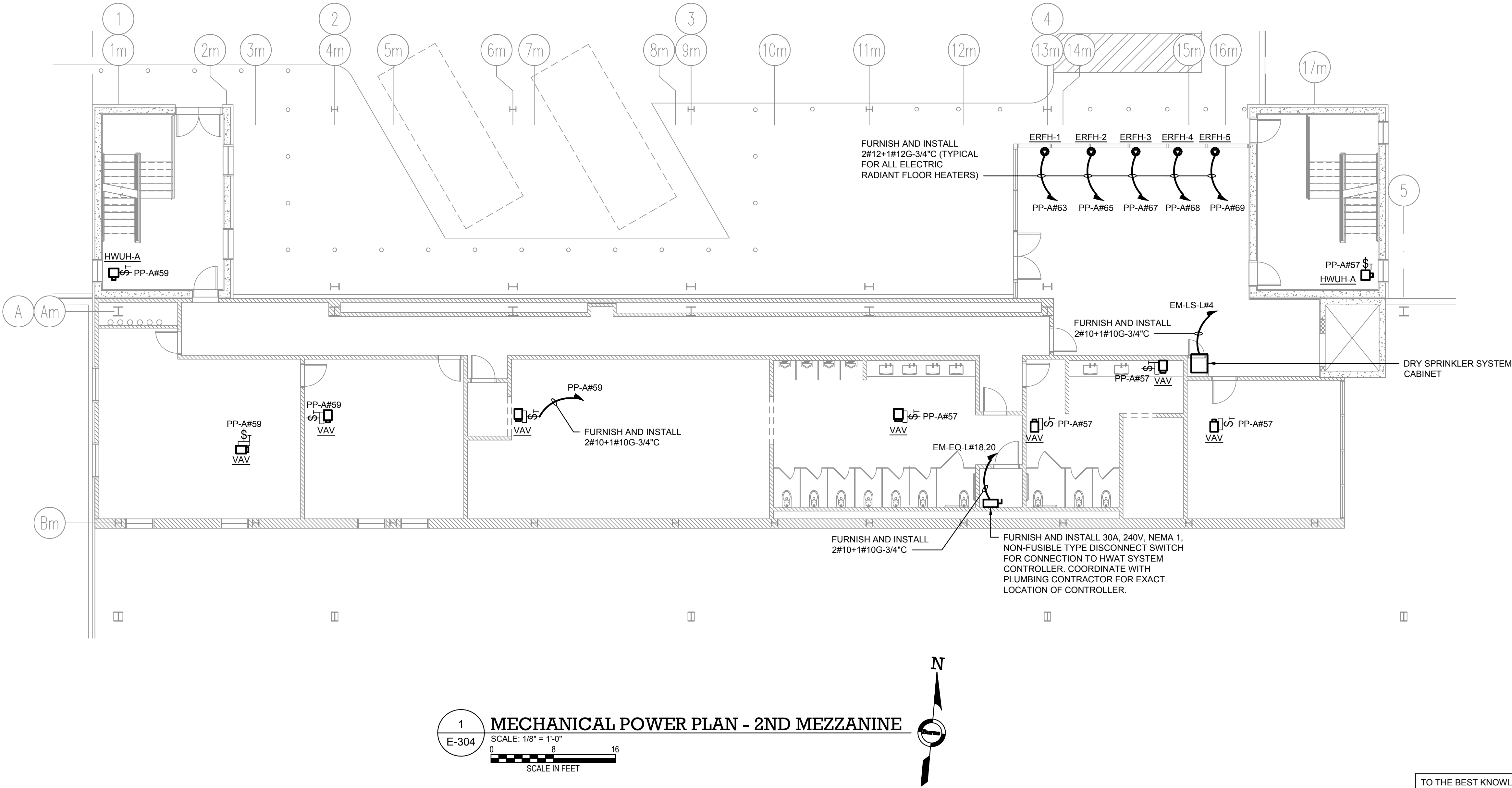
REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

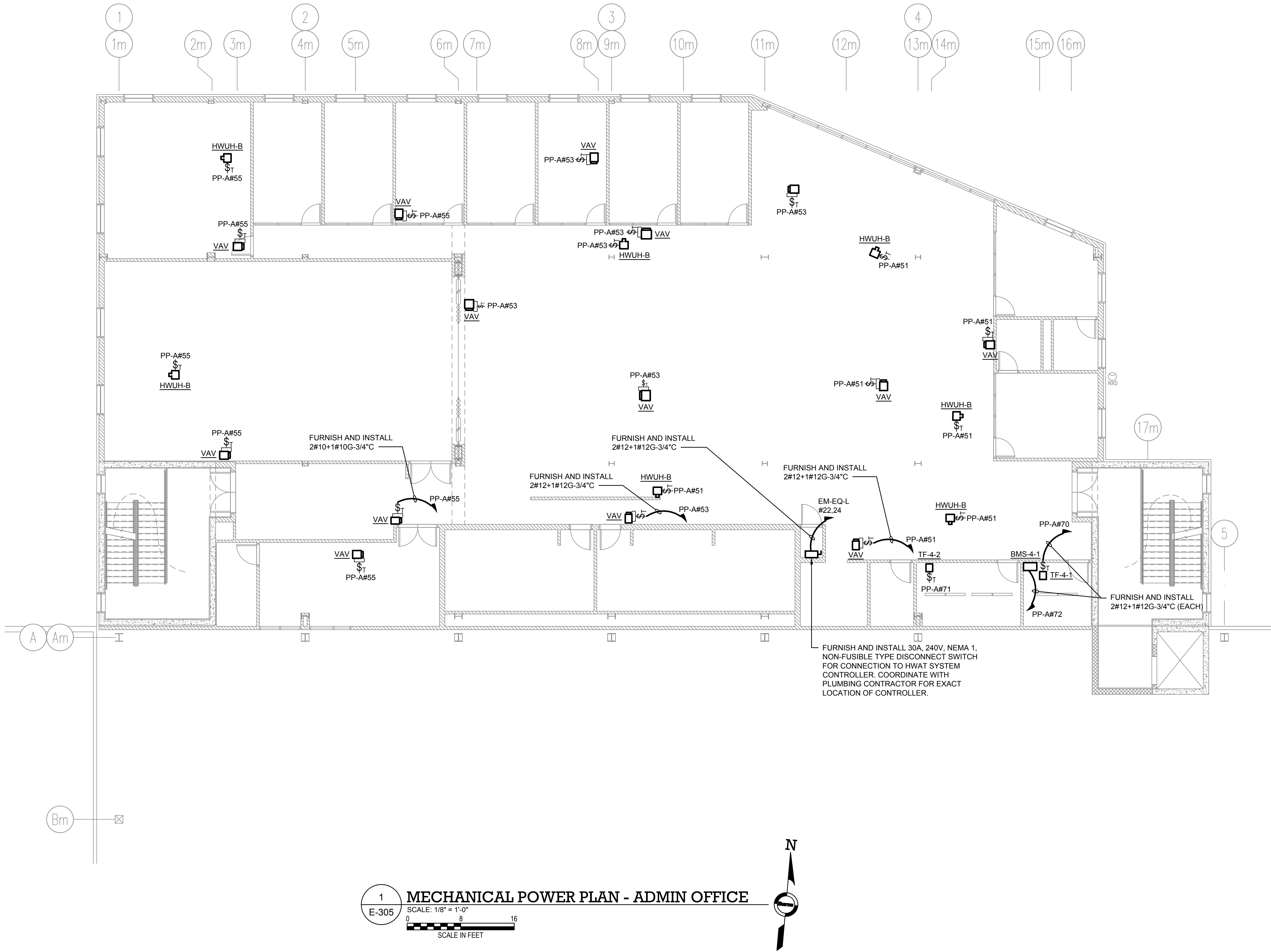
DRAWING TITLE :
MECHANICAL POWER PLAN -
2ND MEZZANINE

DWG NUMBER :

E-304



TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.



NOTES:

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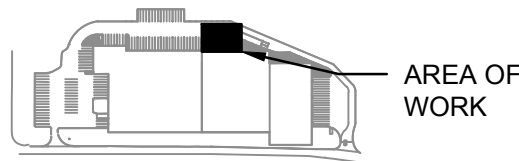
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KEY PLAN



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	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

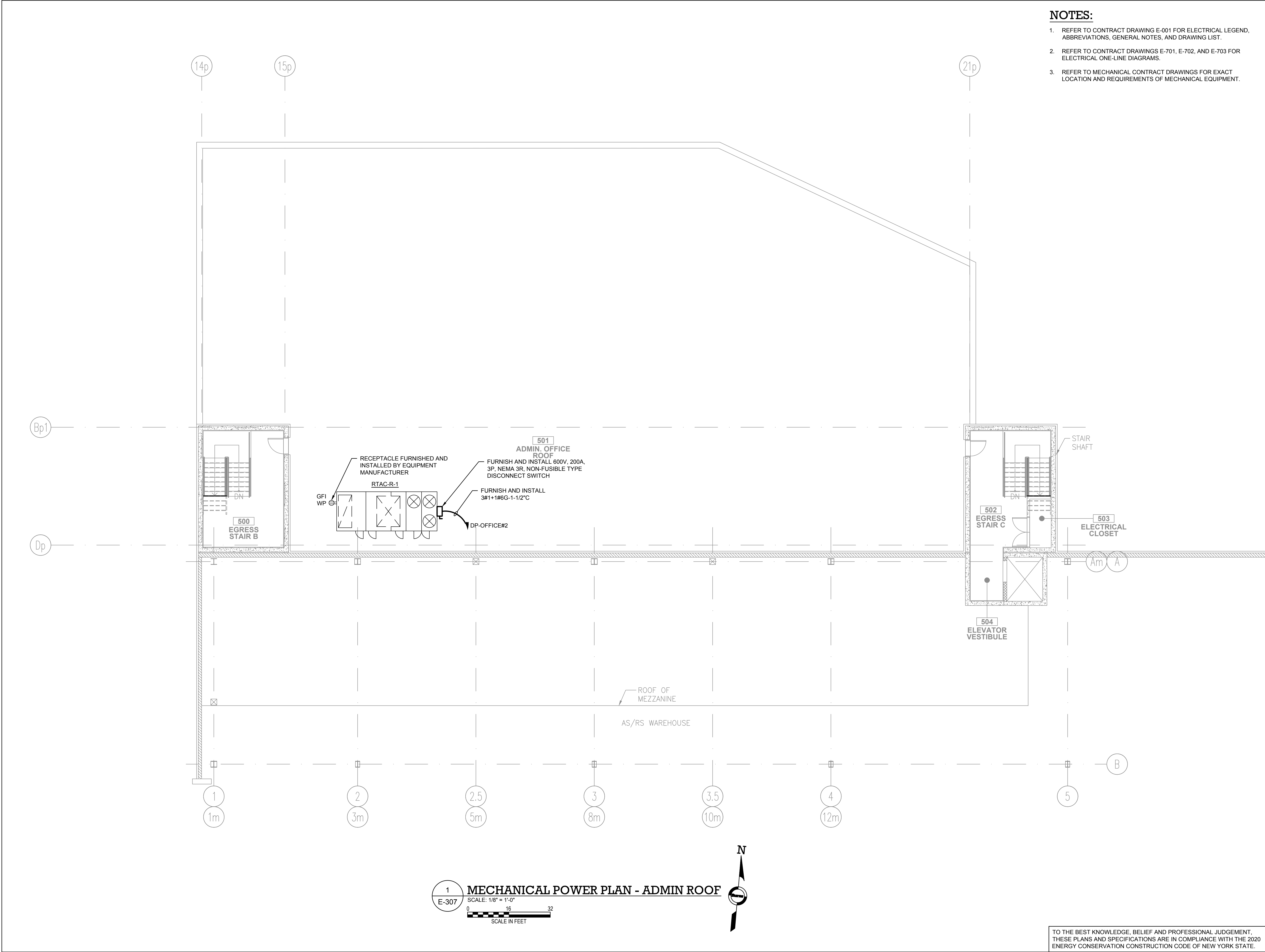
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CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**MECHANICAL POWER PLAN -
ADMIN OFFICE**

DWG NUMBER :

E-305

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.



- NOTES:**
1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
 2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
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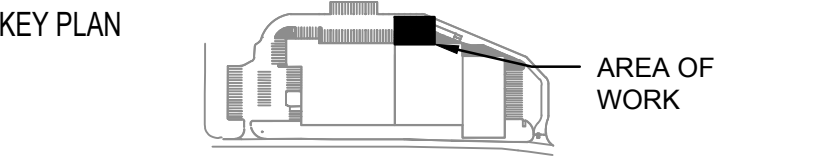
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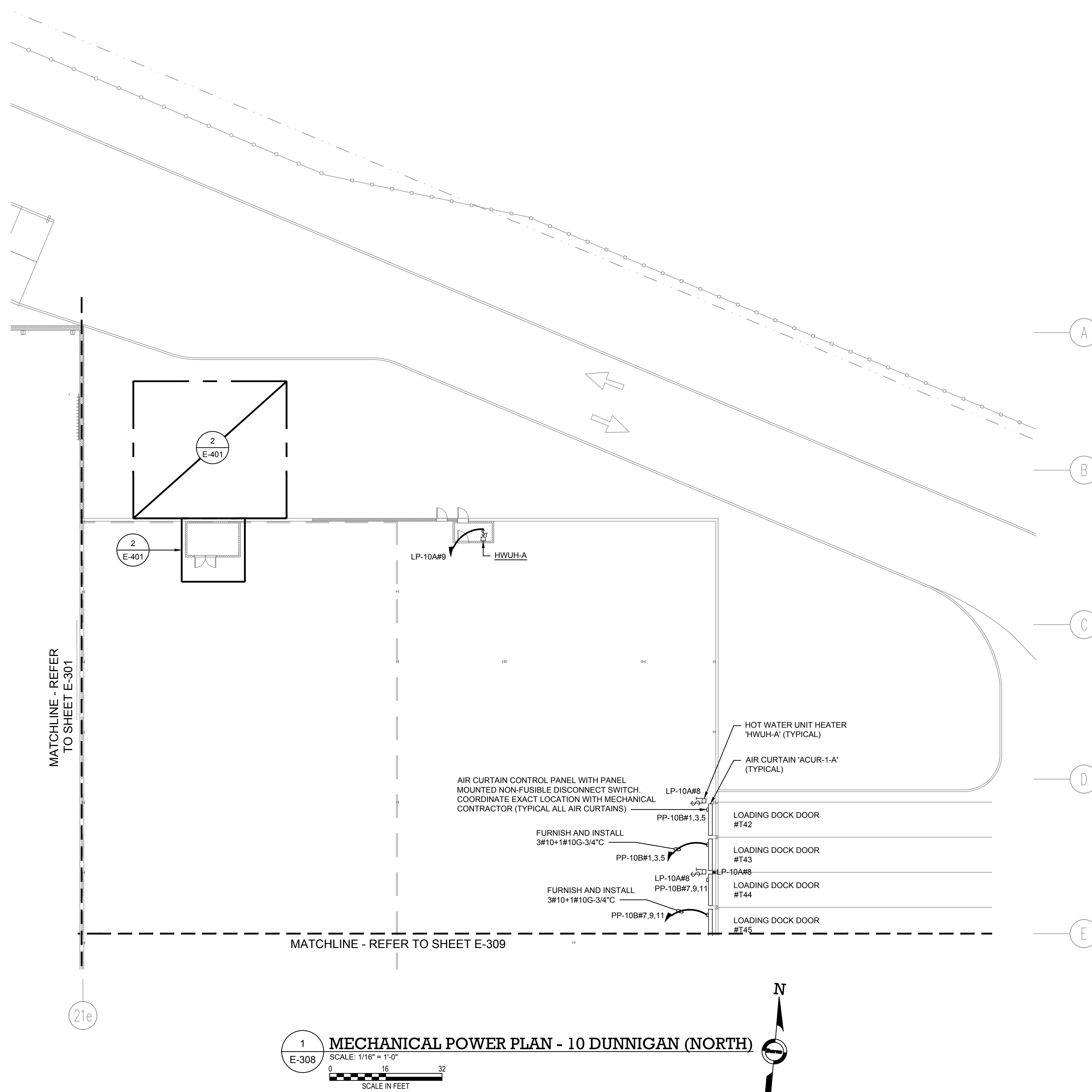
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	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE:
**MECHANICAL POWER PLAN -
ADMIN ROOF**

DWG NUMBER :
E-307

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.



NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
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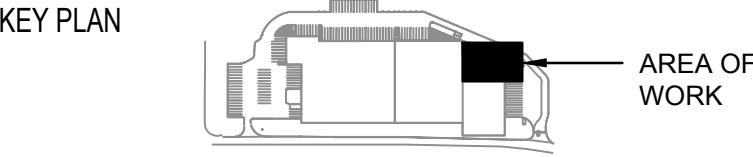
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	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**MECHANICAL POWER PLAN -
10 DUNNIGAN (NORTH)**

DWG NUMBER :
E-308

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
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3. REFER TO MECHANICAL CONTRACT DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT.

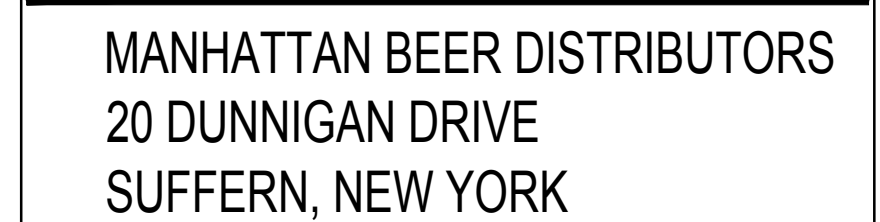
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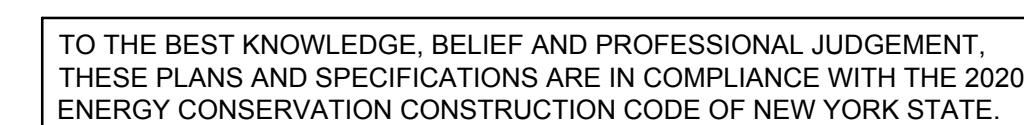
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1385 Broadway, 20th FL
New York, New York 10018
Tel 212-687-8282

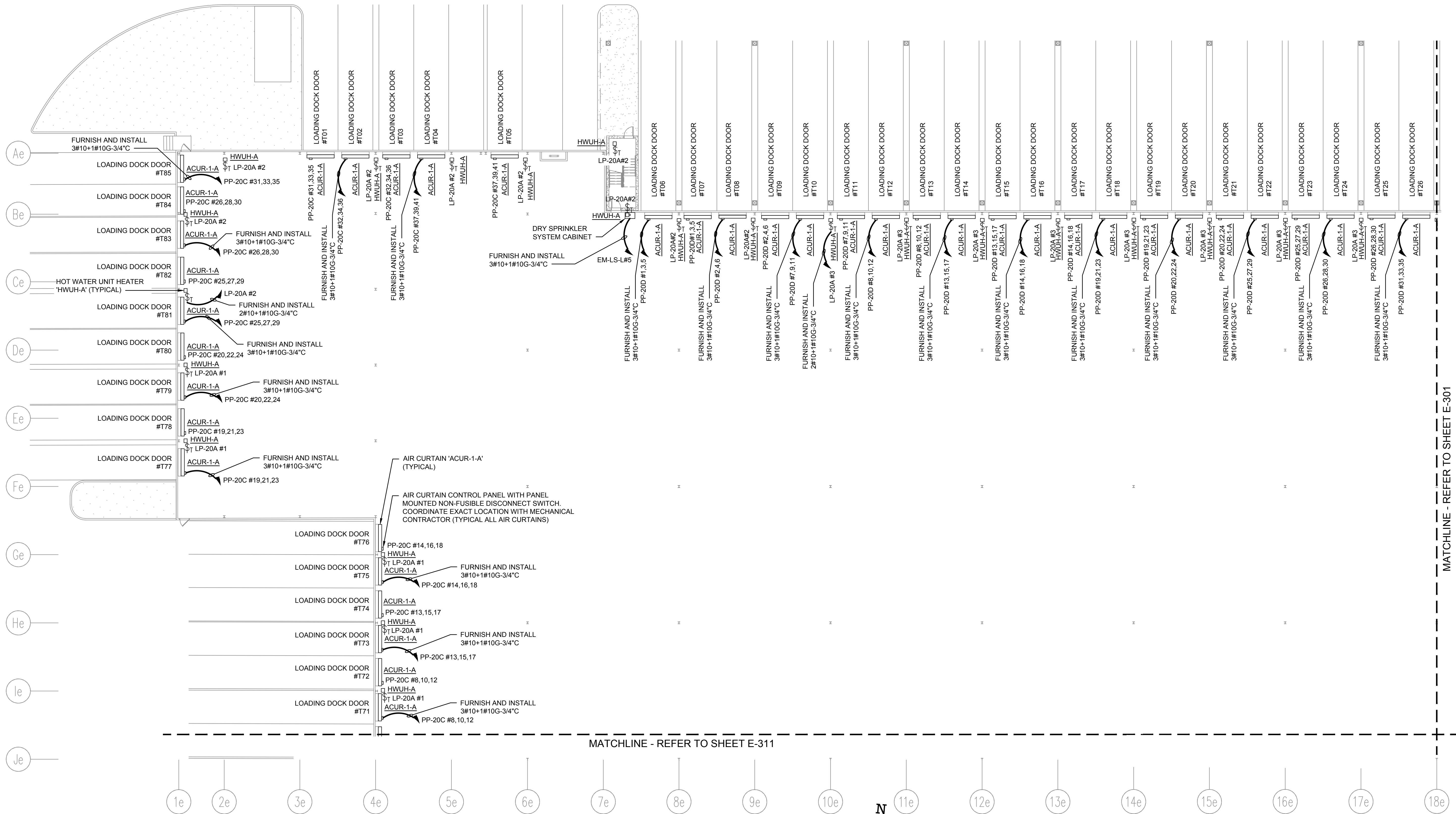
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SCALE :	AS NOTED
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E-309





- NOTES:**
- REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
 - REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
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SUFFERN, NEW YORK

KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :

**MECHANICAL POWER PLAN -
20 DUNNIGAN (NORTH)**

DWG NUMBER :

E-310

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

- NOTES:
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SUFFERN, NEW YORK

KEY PLAN

AREA OF WORK

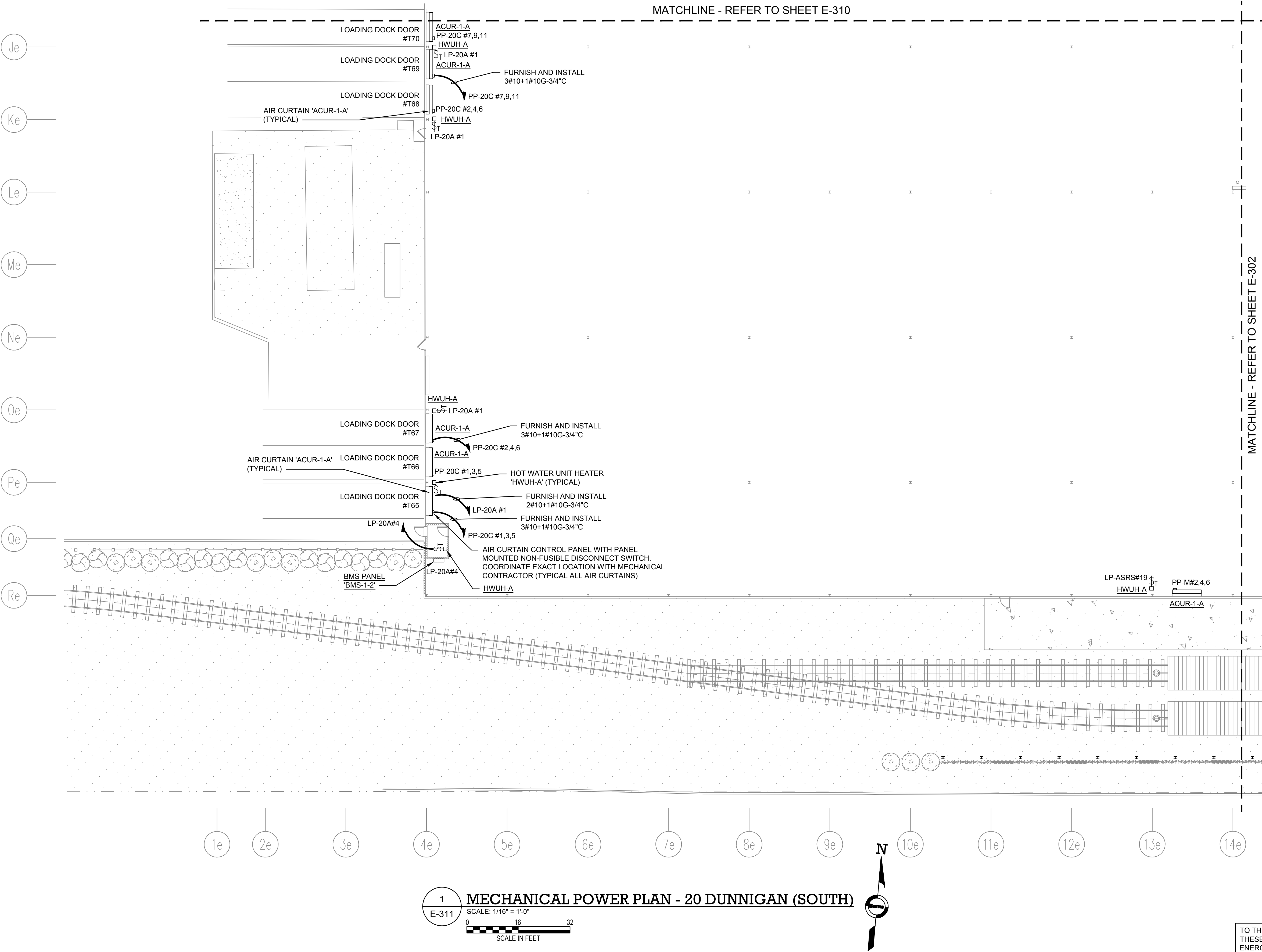
REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
MECHANICAL POWER PLAN -
20 DUNNIGAN (SOUTH)

DWG NUMBER :

E-311



TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
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Tel 212-687-8282



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SUFFERN, NEW YORK

KEY PLAN

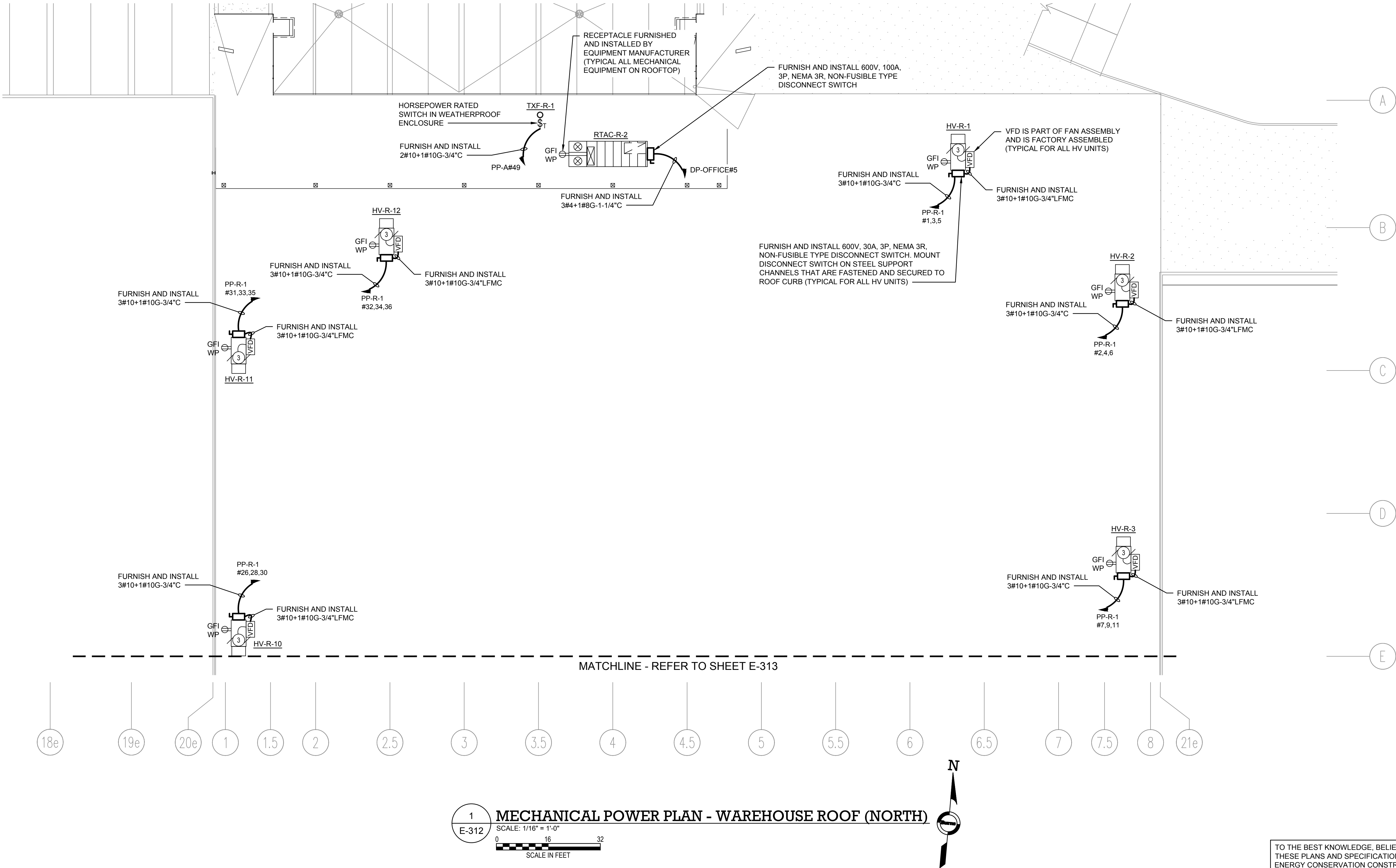
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REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**MECHANICAL POWER PLAN -
WAREHOUSE ROOF (NORTH)**

DWG NUMBER :
E-312



TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
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3. REFER TO MECHANICAL CONTRACT DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT.

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20 DUNNIGAN DRIVE
SUFFERN, NEW YORK

KEY PLAN

AREA OF WORK

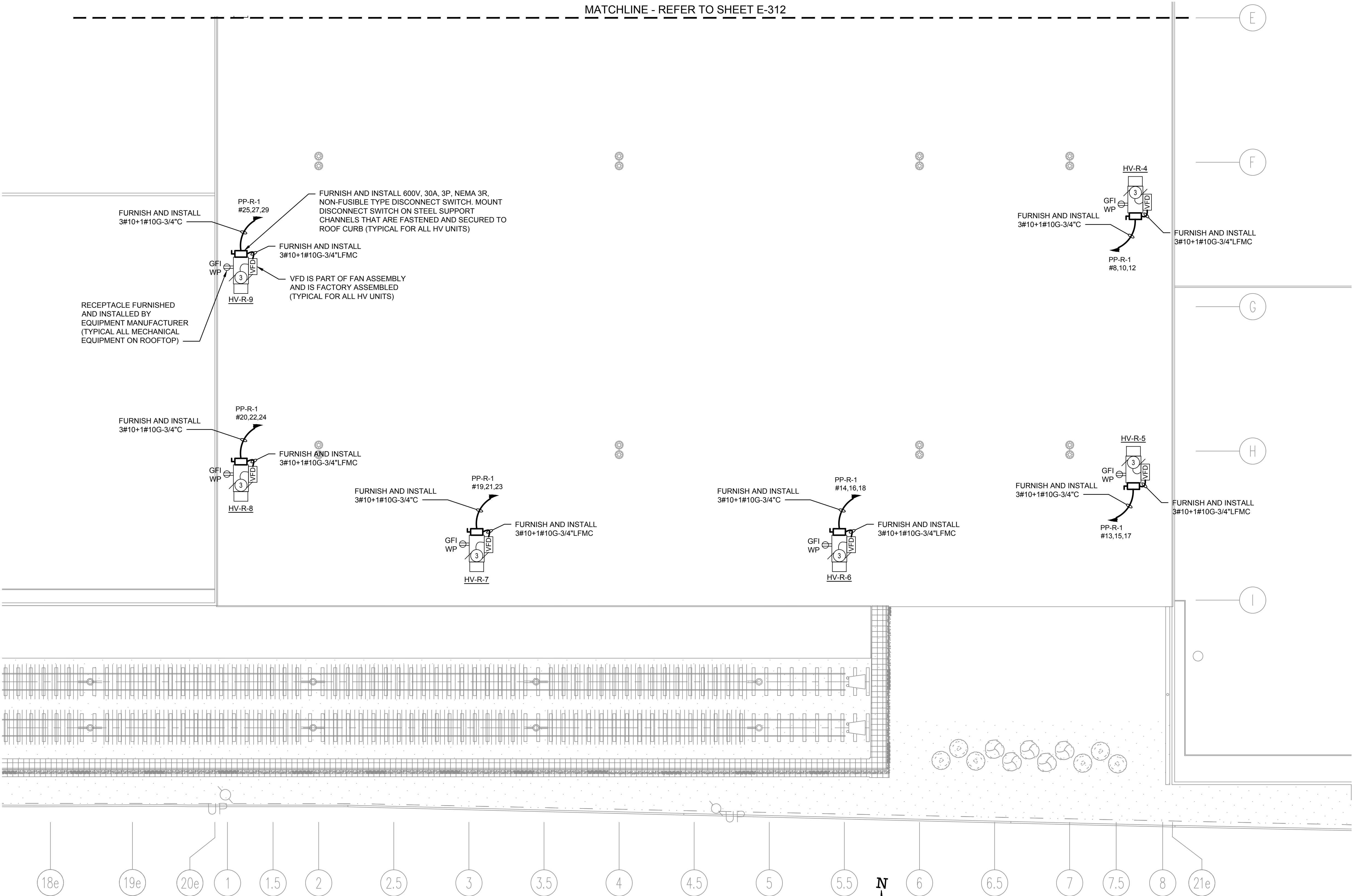
REV	DESCRIPTION	DATE
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	ISSUED FOR PROGRESS	01/18/2022

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CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
MECHANICAL POWER PLAN -
WAREHOUSE ROOF (SOUTH)

DWG NUMBER :

E-313



TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

SERVICE SWITCHGEAR SECTION LEGEND	
BAY	BAY DESCRIPTION
#1	INCOMING SERVICE SECTION
#2	DEDICATED FIRE PUMP SECTION
#3	MAIN FUSIBLE SWITCH FOR EXISTING BUILDING - 20 DUNNIGAN DRIVE
#4	MAIN FUSIBLE SWITCH FOR PHOTOVOLTAIC SYSTEM
#5	MAIN FUSIBLE SWITCH FOR BUILDING ADDITION
#6	MAIN FUSIBLE SWITCH FOR EXISTING BUILDING - 10 DUNNIGAN DRIVE
#7	SPACE FOR MAIN FUSIBLE SWITCH FOR FUTURE LOADS

NOTES:

- REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
- REFER TO CONTRACT DRAWINGS E-701, E-702 AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAMS AND ELECTRICAL REQUIREMENTS OF EQUIPMENT.
- REFER TO THE PHOTOVOLTAIC SYSTEM CONSTRUCTION DRAWINGS FOR FEEDER AND EQUIPMENT REQUIREMENTS.
- REFER TO CONTRACT DRAWING E-403 FOR PROPOSED ELECTRICAL CONDUIT PATHWAYS AND GROUNDING REQUIREMENTS.
- ALL UNDERGROUND CONDUIT SHALL HAVE A MINIMUM 2" OF SLURRY CONCRETE AND SHALL BE A MINIMUM 36" FROM FINISHED GRADE.
- REFER TO CONTRACT DRAWING E-904 FOR MEDIUM VOLTAGE SWITCHGEAR SPECIFICATIONS.

ARCHITECT

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Consultants



MANHATTAN BEER DISTRIBUTORS
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SUFFERN, NEW YORK

KEY PLAN

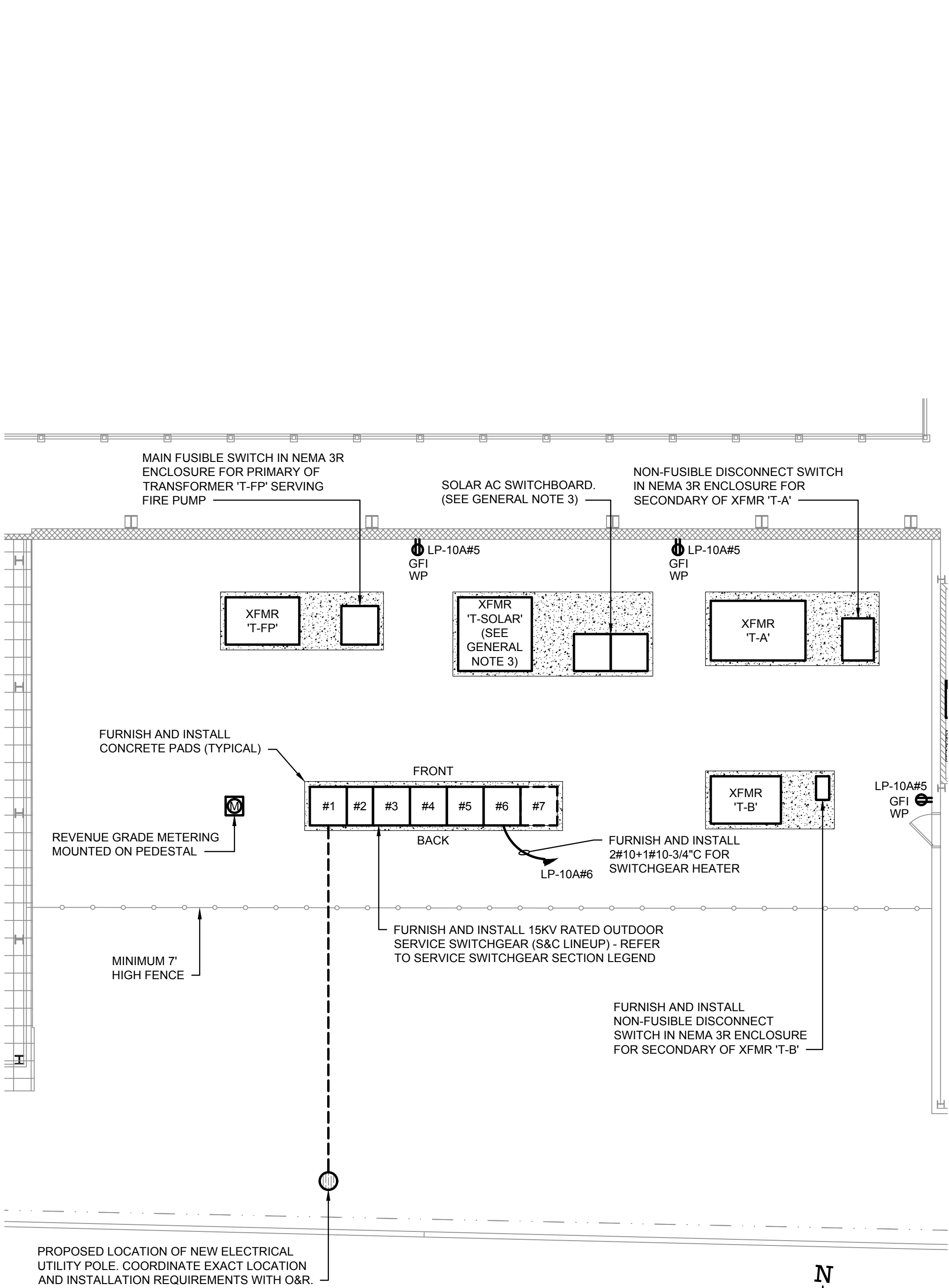
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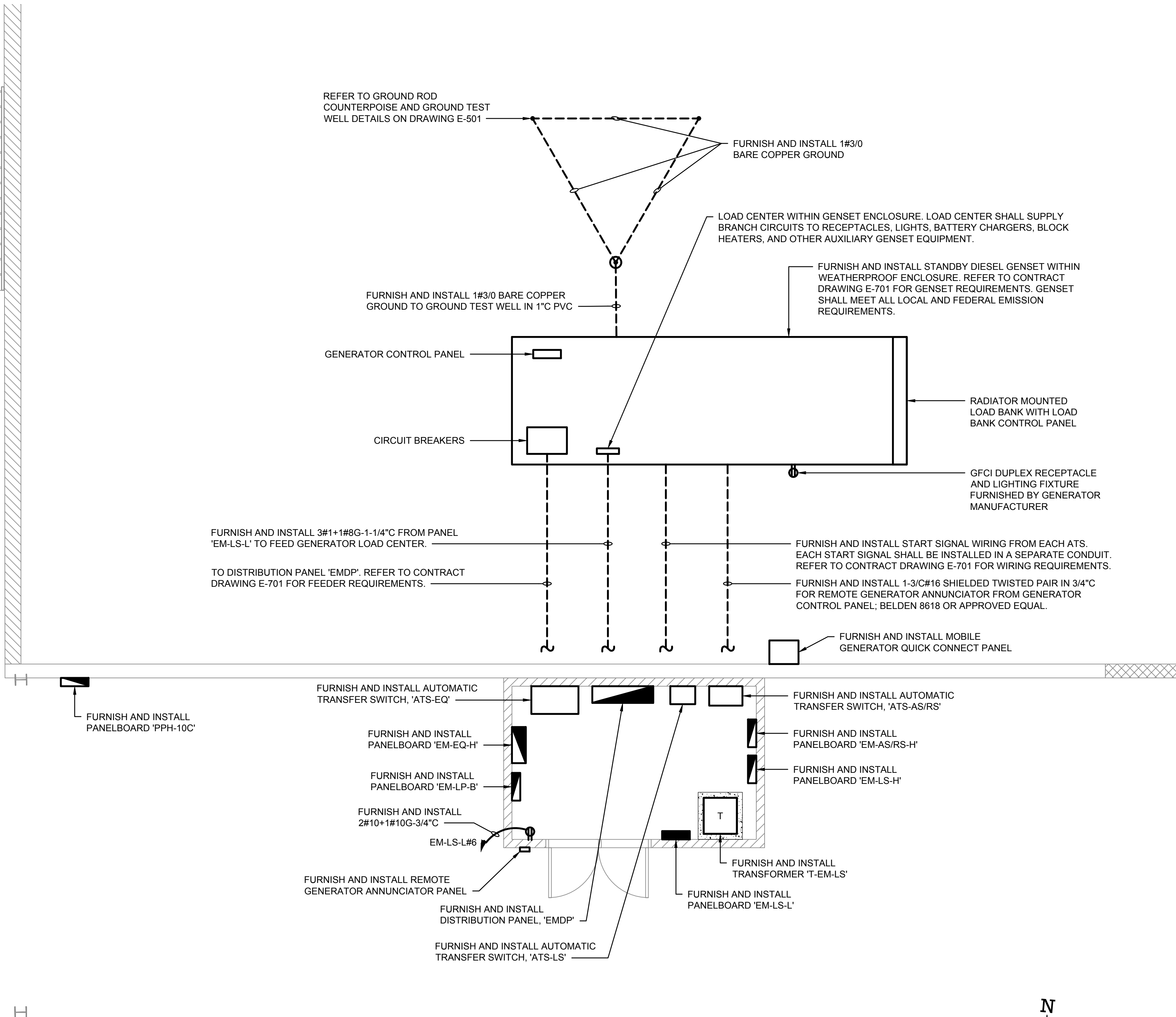
DRAWING TITLE :
ELECTRICAL SERVICE &
GENERATOR AREAS -
INSTALLATIONS

DWG NUMBER :

E-401

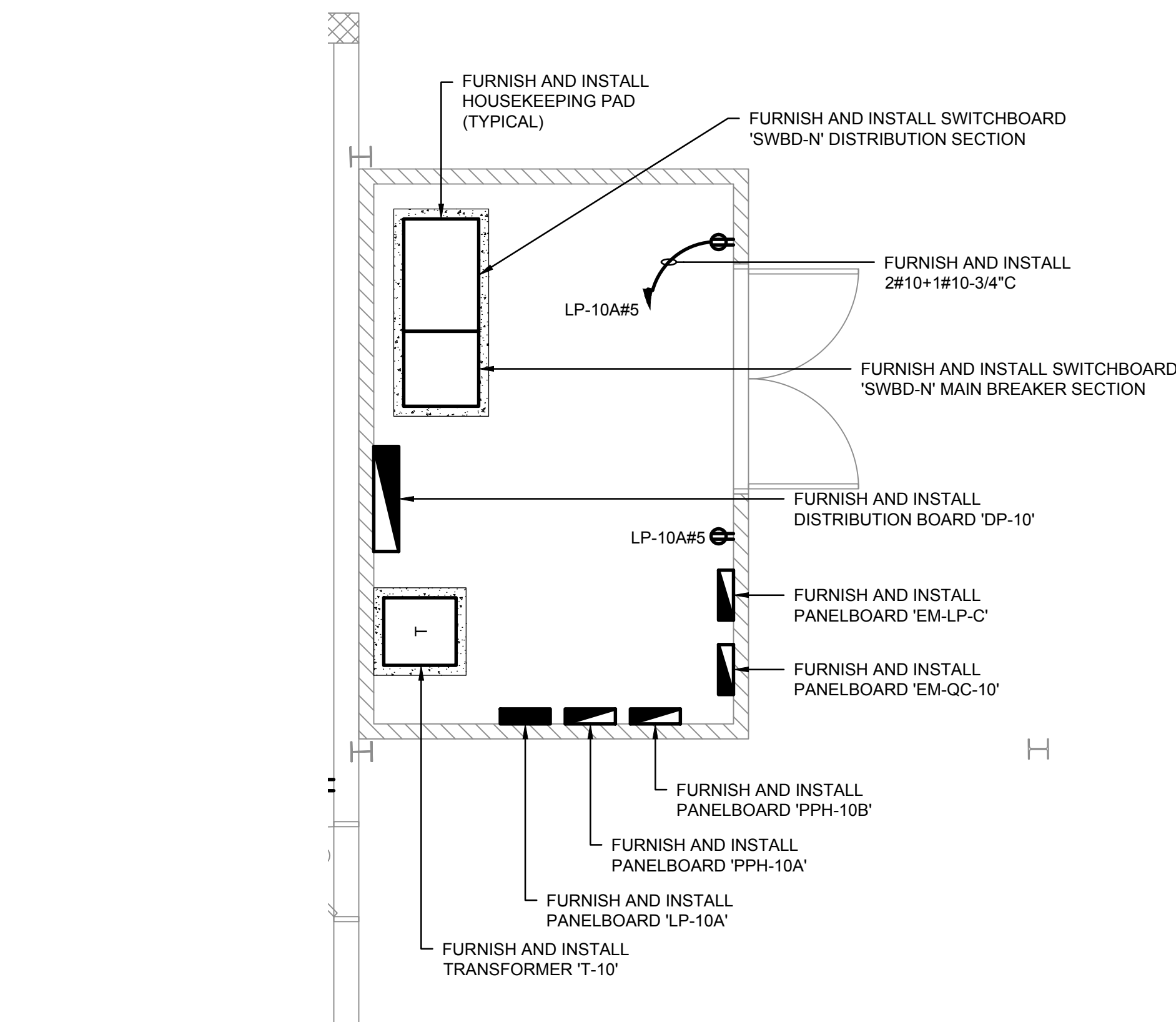


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E-401
ELECTRICAL SERVICE AREA - INSTALLATIONS
SCALE: 1/8" = 1'-0"
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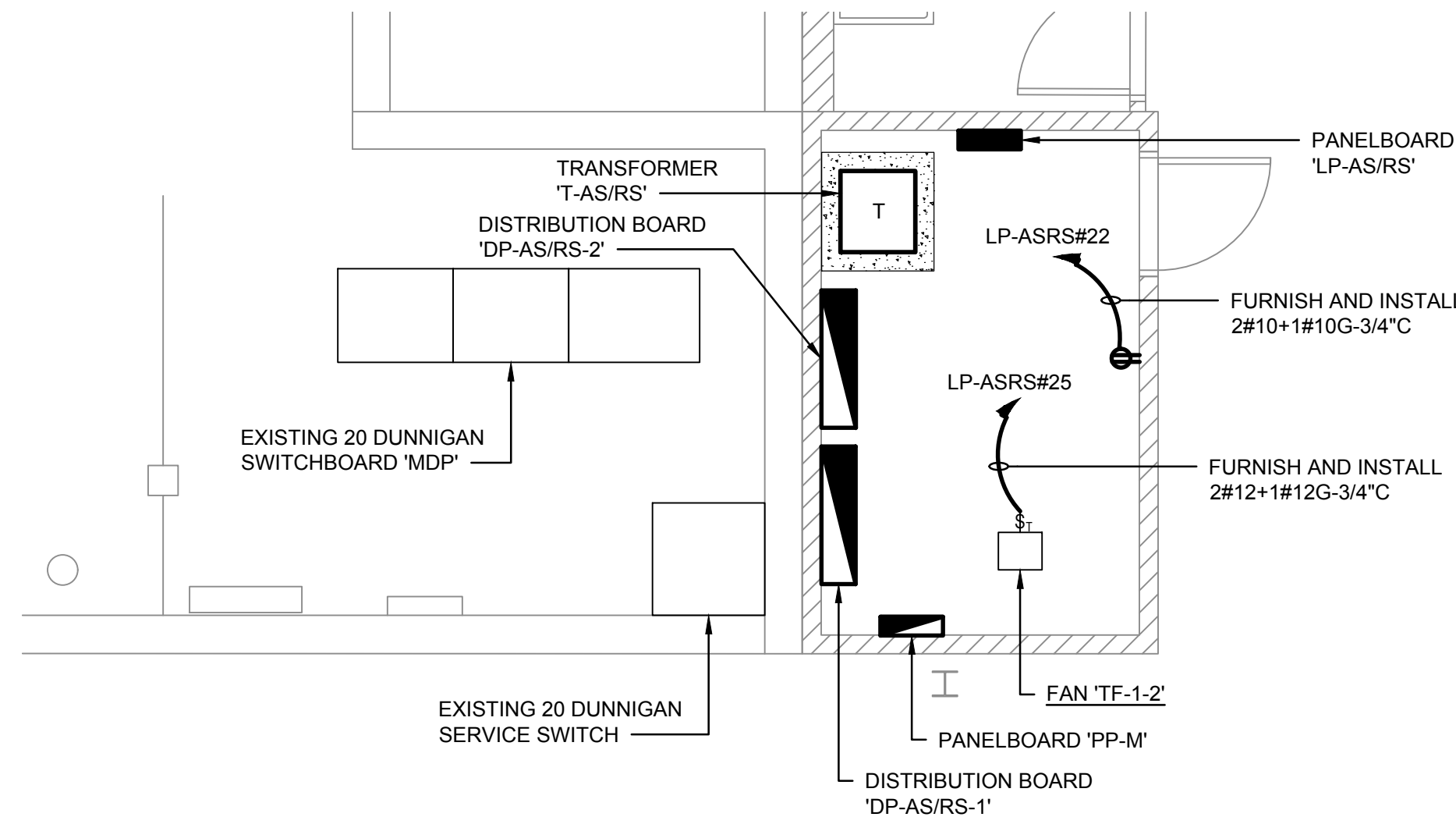


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E-401
EMERGENCY STANDBY GENERATOR & DISTRIBUTION ROOM - INSTALLATIONS
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SCALE IN FEET

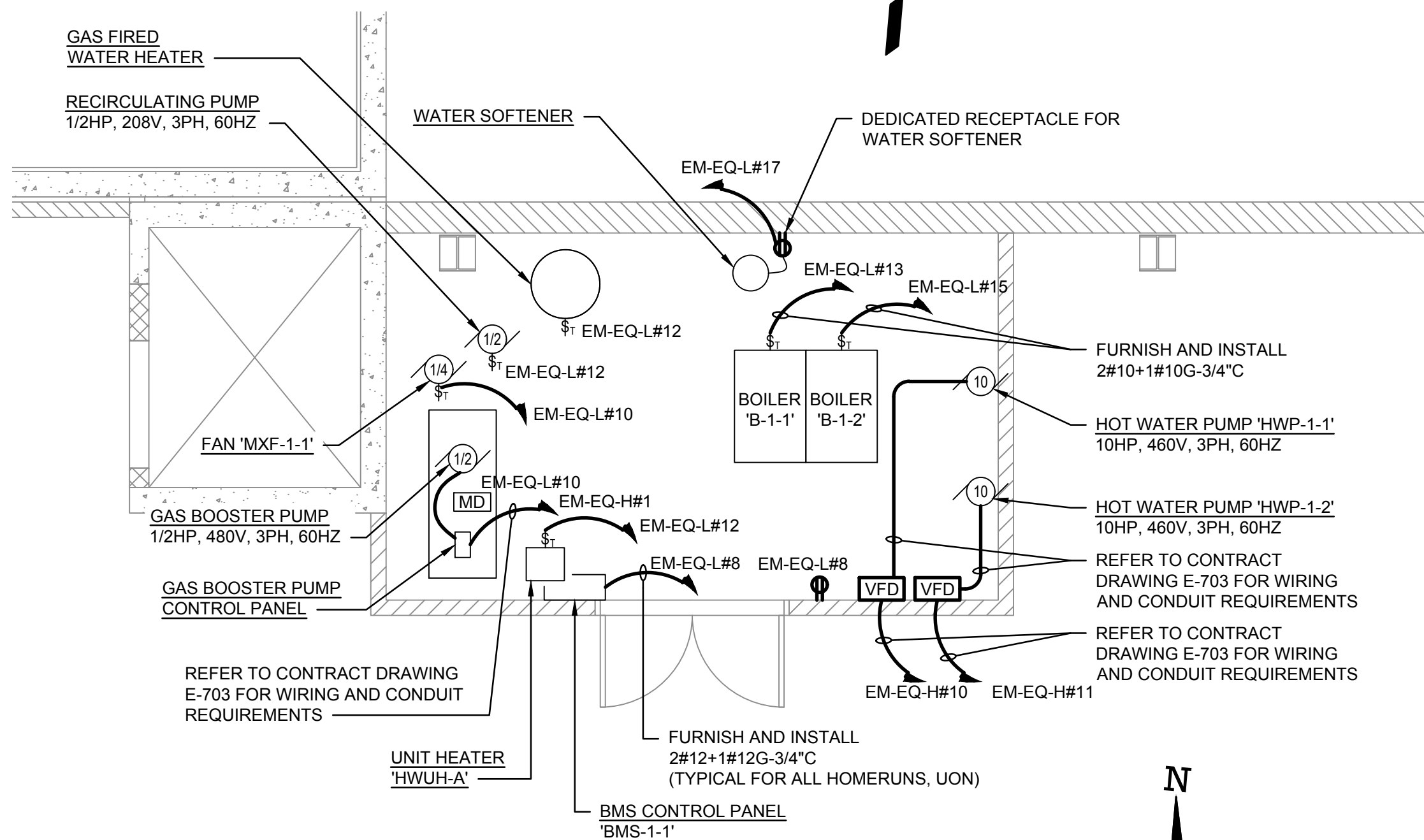
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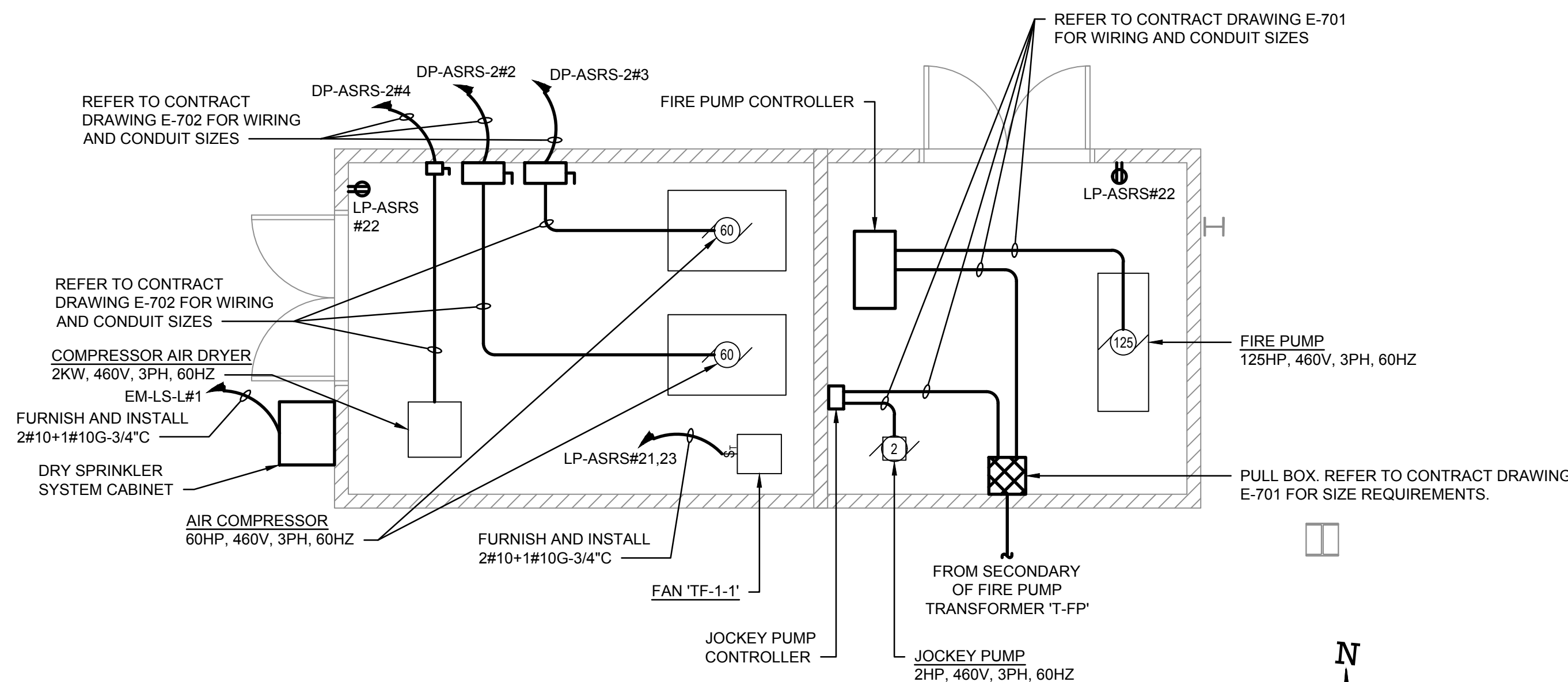
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E-402
AS/RS SWITCHBOARD ROOM & 10 DUNNIGAN SERVICE ROOM PART PLANS
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SCALE IN FEET



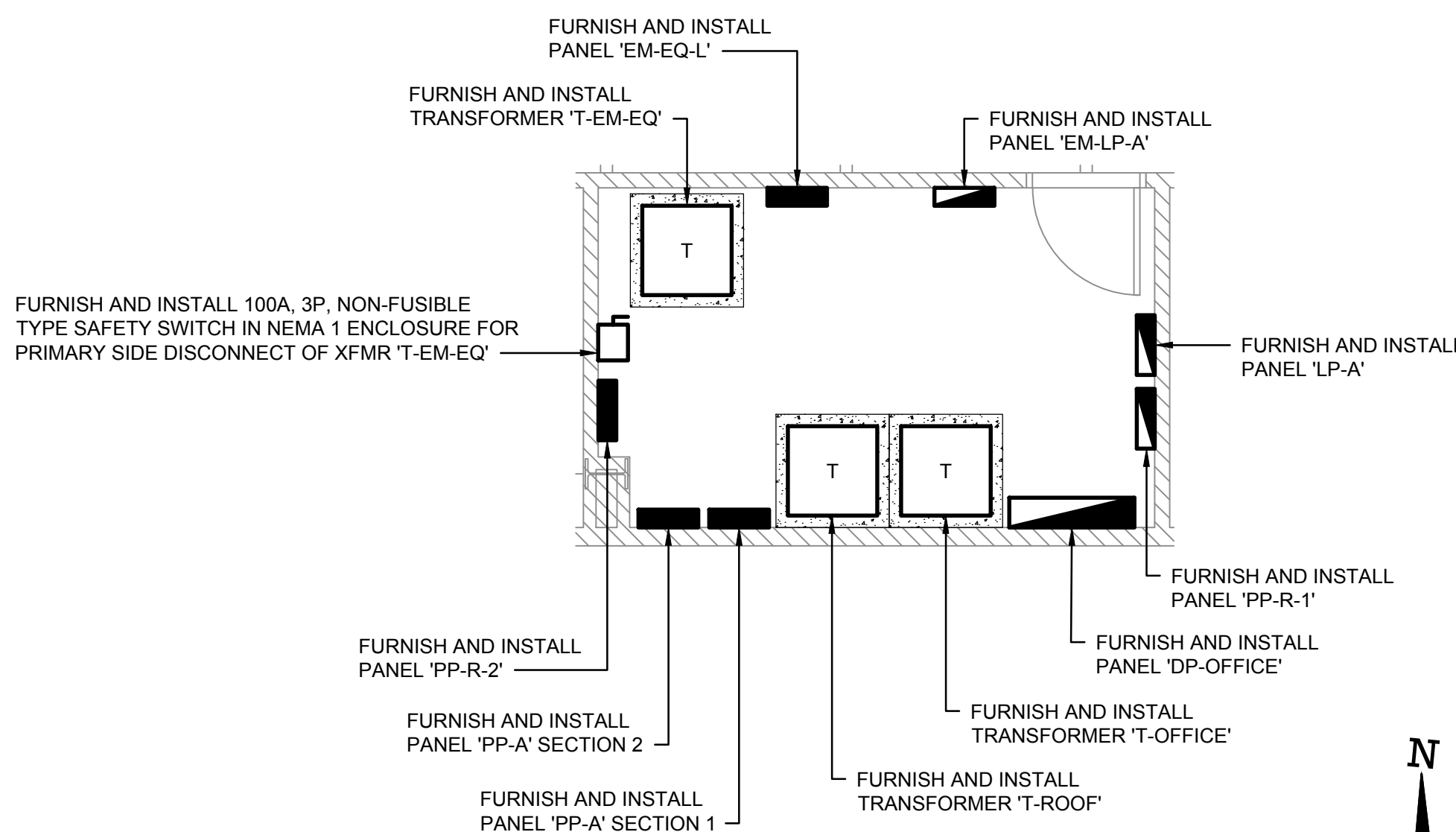
2
E-402
EXISTING AND NEW ELECTRICAL SERVICE ROOMS - 20 DUNNIGAN DRIVE
SCALE: 1/4" = 1'-0"
0 4 8
SCALE IN FEET



4
E-402
BOILER ROOM PART PLAN - INSTALLATIONS
SCALE: 1/4" = 1'-0"
0 4 8
SCALE IN FEET



3
E-402
AIR COMPRESSOR & FIRE PUMP ROOM PART PLANS - INSTALLATIONS
SCALE: 1/4" = 1'-0"
0 4 8
SCALE IN FEET



5
E-402
ADMIN ELECTRICAL ROOM PART PLAN - INSTALLATIONS
SCALE: 1/4" = 1'-0"
0 4 8
SCALE IN FEET

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAMS AND ELECTRICAL REQUIREMENTS OF EQUIPMENT.
3. REFER TO CONTRACT DRAWINGS E-905 AND E-906 FOR LOW VOLTAGE SWITCHBOARD SPECIFICATIONS.

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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MANHATTAN BEER DISTRIBUTORS
20 DUNNIGAN DRIVE
SUFFERN, NEW YORK

KEY PLAN

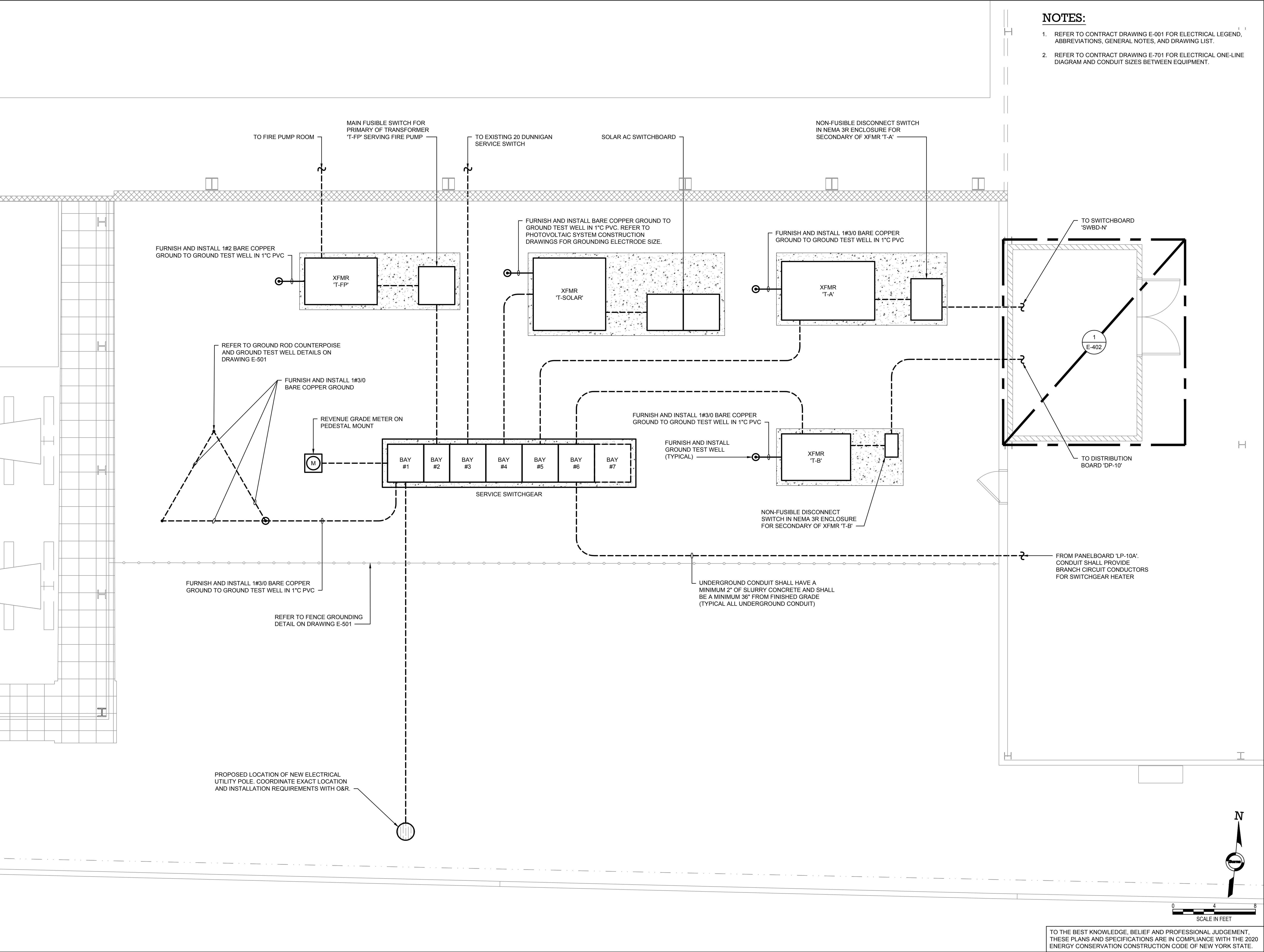
REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL ROOM PART PLANS - INSTALLATIONS

DWG NUMBER :

E-402



- NOTES:**
1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
 2. REFER TO CONTRACT DRAWING E-701 FOR ELECTRICAL ONE-LINE DIAGRAM AND CONDUIT SIZES BETWEEN EQUIPMENT.

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20 DUNNIGAN DRIVE
SUFFERN, NEW YORK

KEY PLAN

REV	DESCRIPTION	DATE
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DRAWN BY : M.DIMATTIA

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APPROVED BY : J.MIZRAHI

DATE : 09/10/21

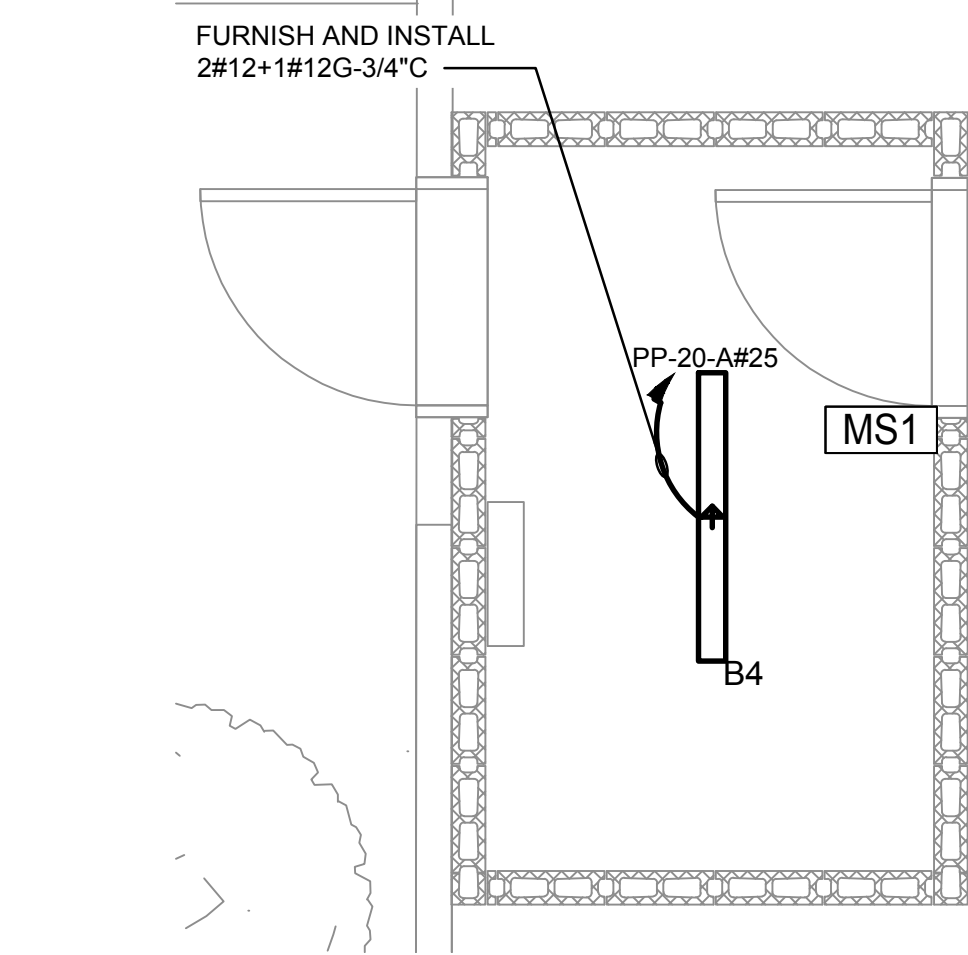
SCALE : 1/4"=1'-0"

DRAWING TITLE :
**ELECTRICAL SERVICE YARD -
CONDUIT & GROUNDING PLAN**

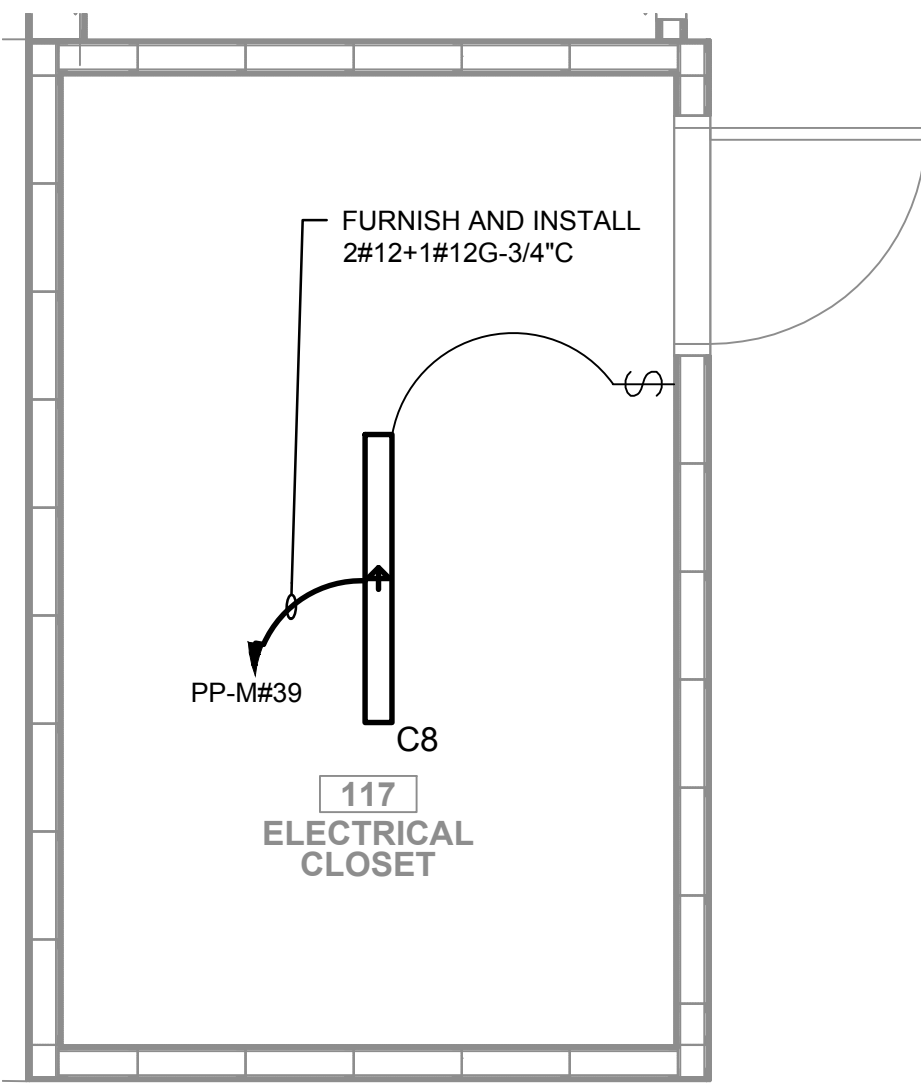
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E-403

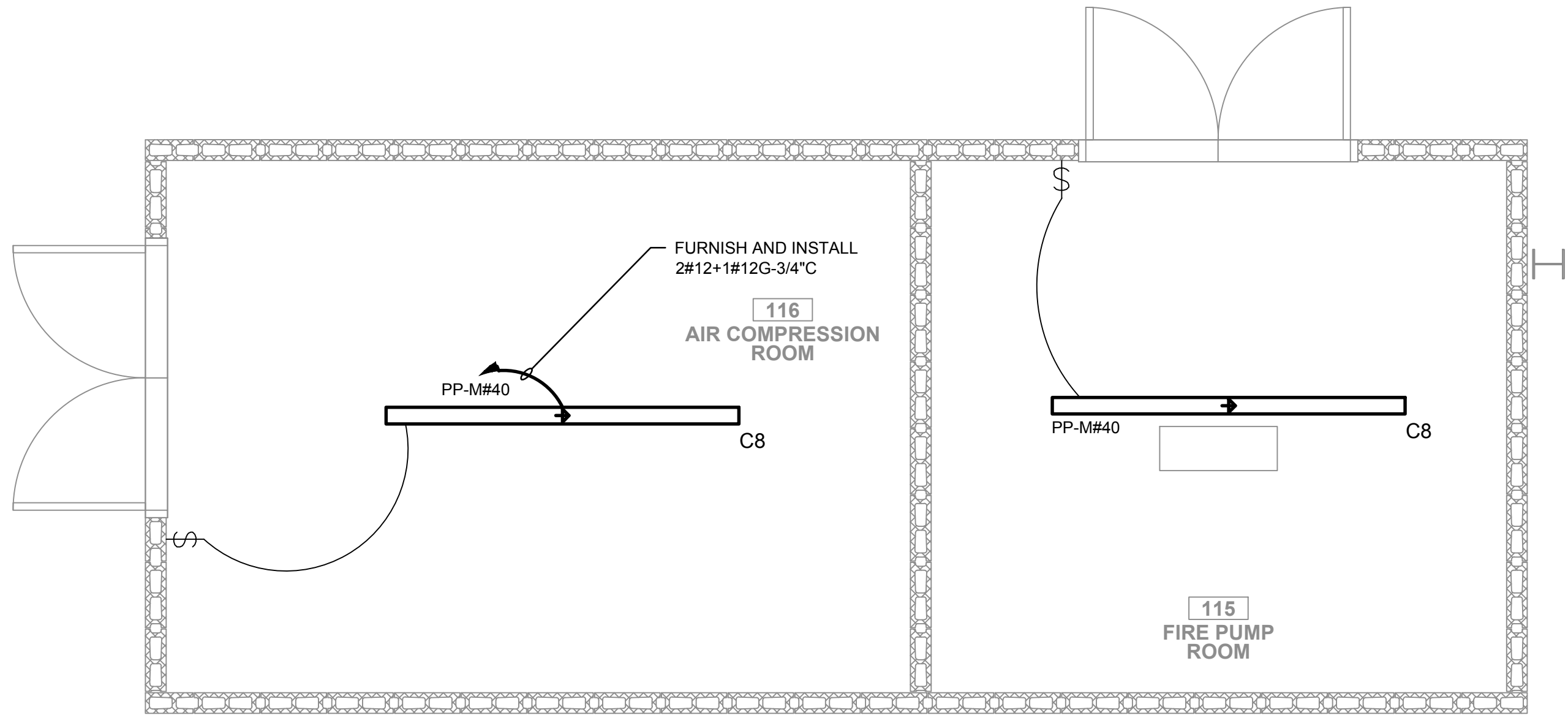
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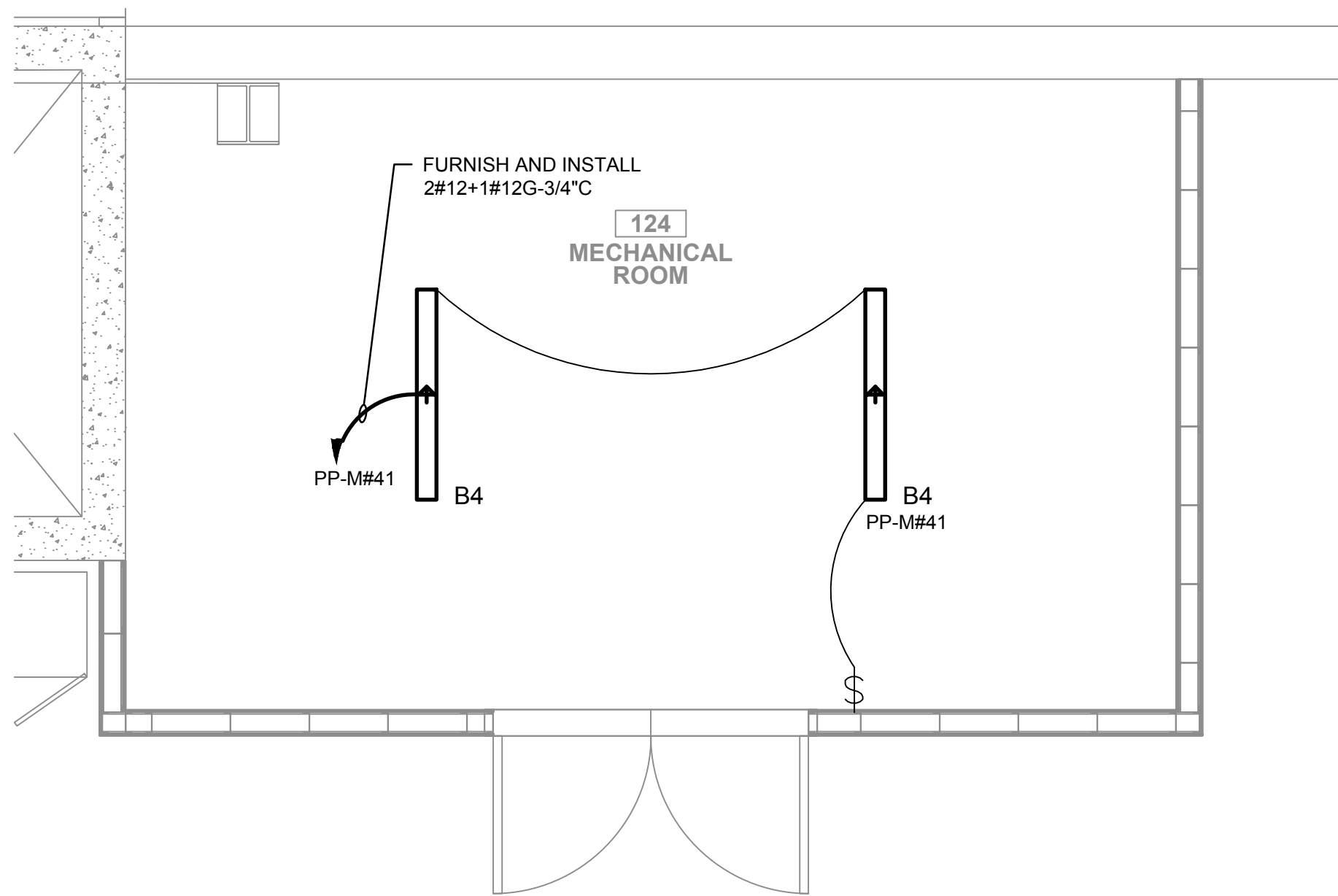
1
E-404
ELECTRICAL LIGHTING PART PLAN - 20 DUNNIGAN SPRINKLER RISER CLOSET
SCALE: 3/8" = 1'-0"



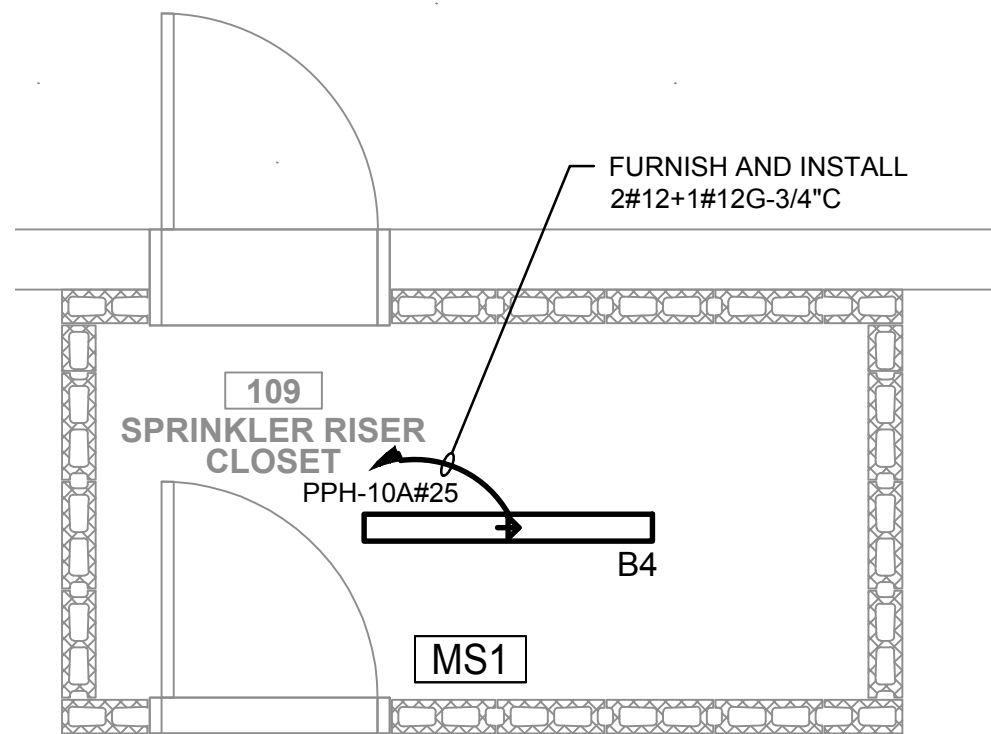
2
E-404
ELECTRICAL LIGHTING PART PLAN - 20 DUNNIGAN NEW BUILDING ADDITION ELECTRICAL ROOM
SCALE: 3/8" = 1'-0"



3
E-404
ELECTRICAL LIGHTING PART PLAN - 20 DUNNIGAN AIR COMPRESSION & FIRE PUMP ROOMS
SCALE: 3/8" = 1'-0"



4
E-404
ELECTRICAL LIGHTING PART PLAN - BOILER ROOM
SCALE: 3/8" = 1'-0"



5
E-404
ELECTRICAL LIGHTING PART PLAN - 10 DUNNIGAN (NORTH) SPRINKLER RISER CLOSET
SCALE: 3/8" = 1'-0"

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
3. REFER TO CONTRACT DRAWING E-607 FOR LIGHTING FIXTURE SCHEDULE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION, AND SPECIFICATIONS OF LIGHTING FIXTURES.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHTING CONTROL SYSTEM SPECIFICATIONS, DEVICE LAYOUT, AND QUANTITY OF CONTROL DEVICES.

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MANHATTAN BEER DISTRIBUTORS
20 DUNNIGAN DRIVE
SUFFERN, NEW YORK

KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
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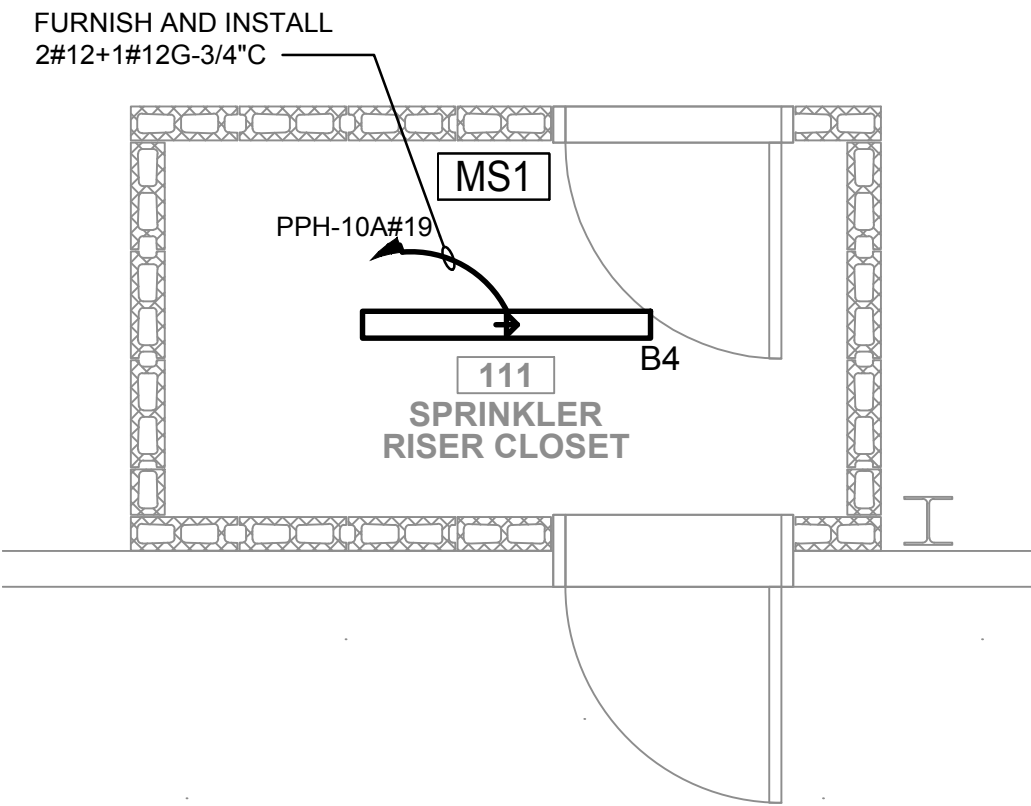
DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL LIGHTING PART
PLANS - AUXILIARY ROOMS
SHEET 1 OF 2

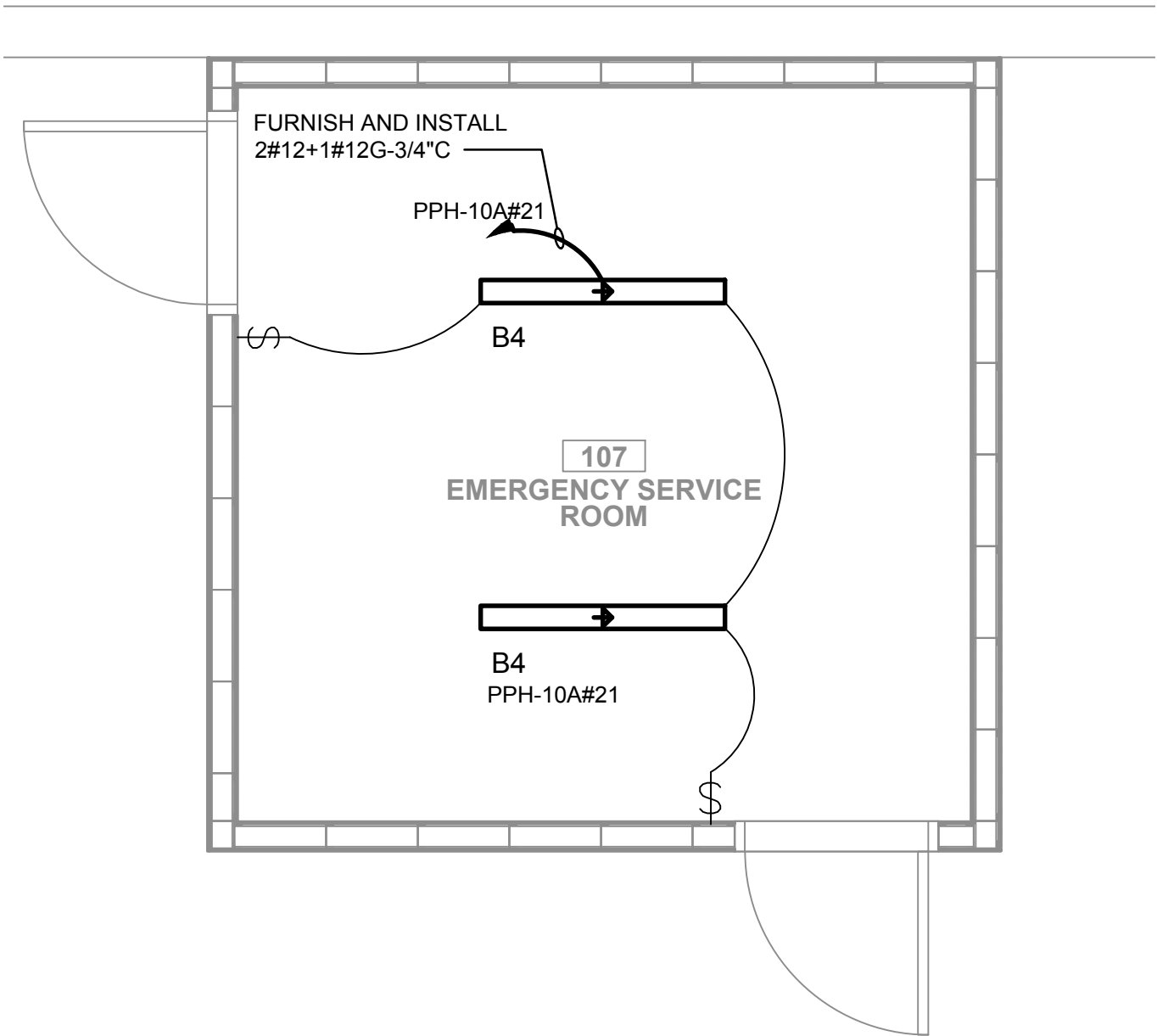
DWG NUMBER :

E-404

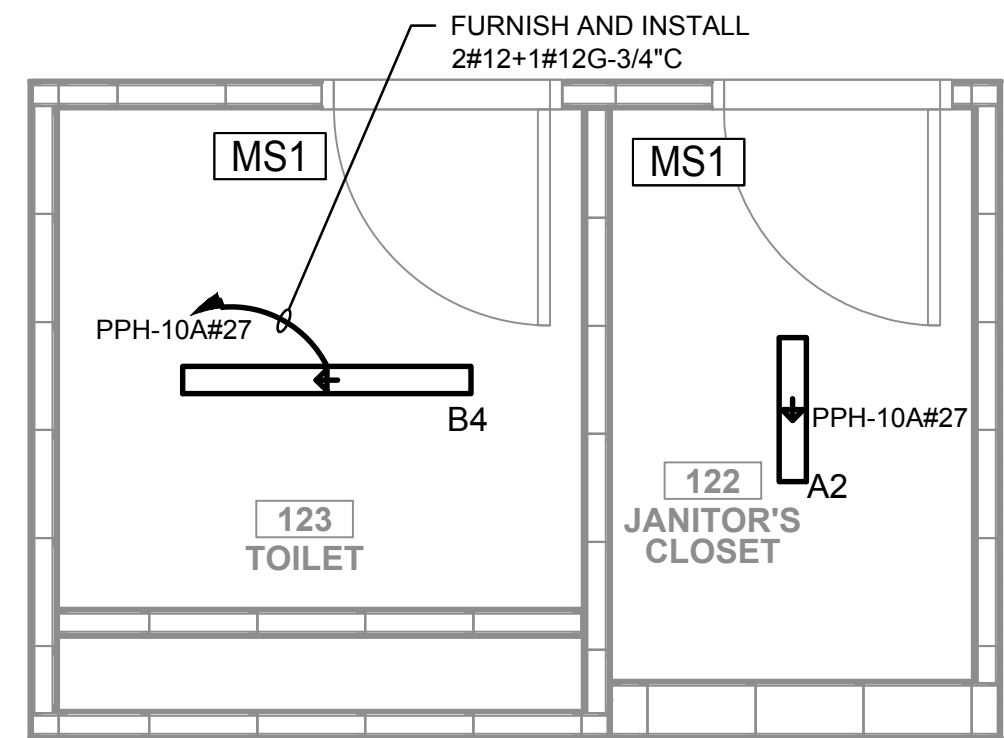
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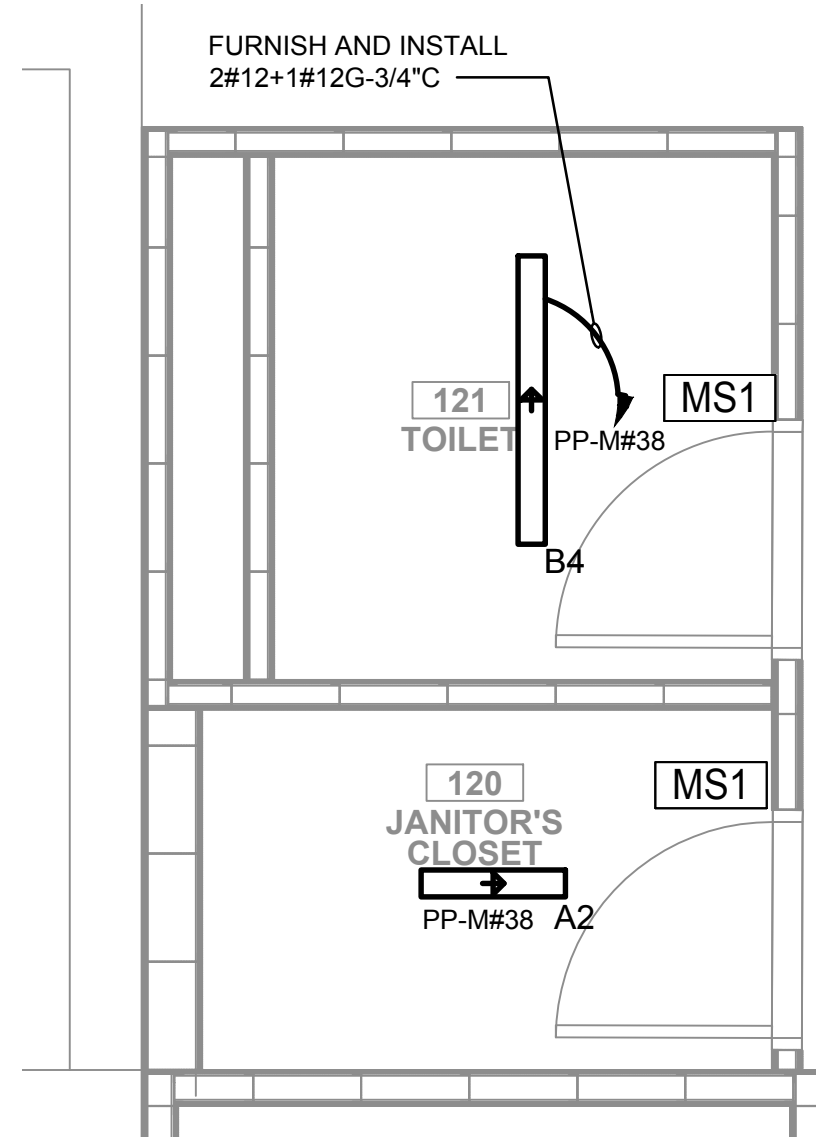
1 **ELECTRICAL LIGHTING PART PLAN - 10 DUNNIGAN (SOUTH) SPRINKLER RISER CLOSET**
E-405 SCALE: 3/8" = 1'-0"



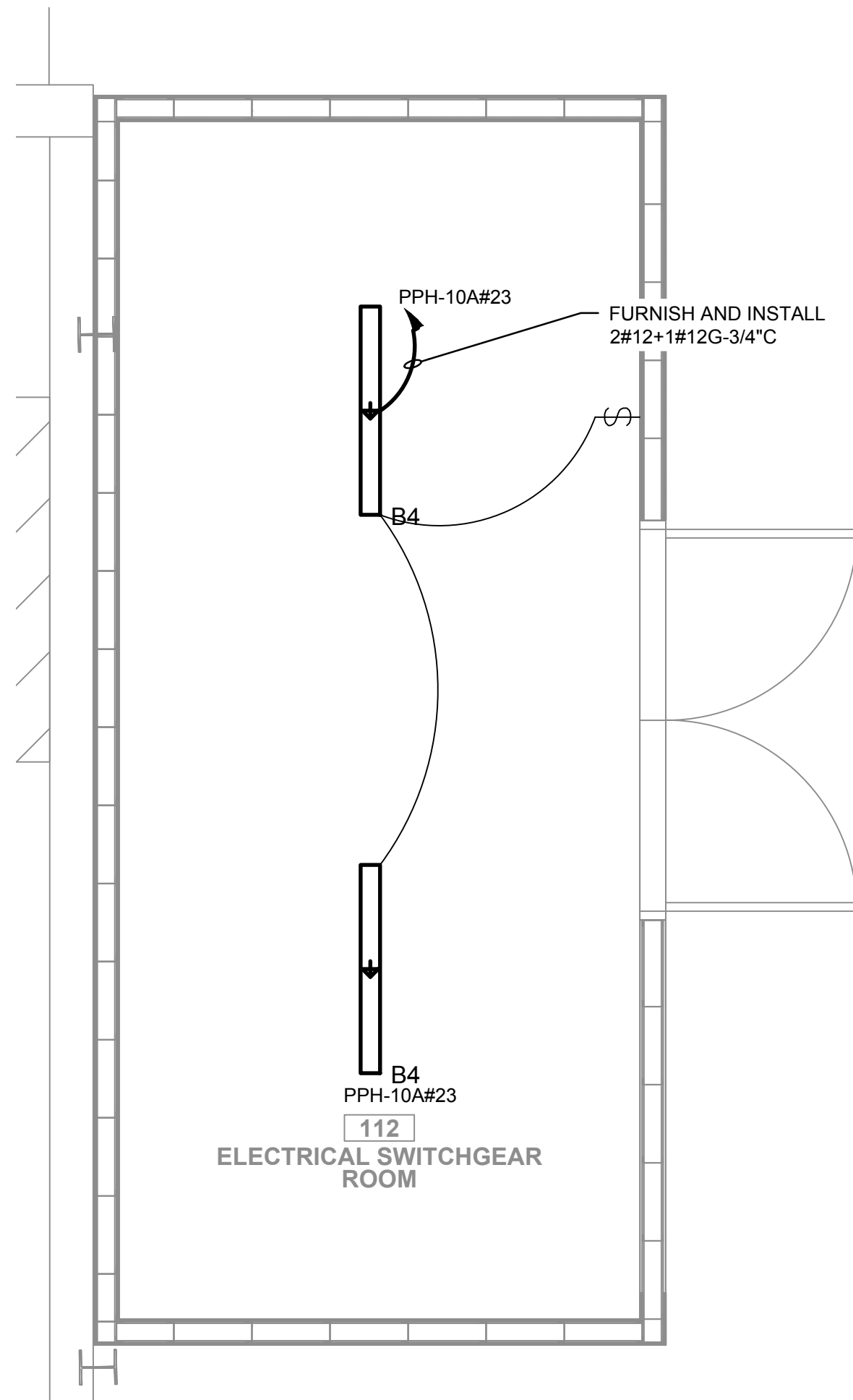
3 **ELECTRICAL LIGHTING PART PLAN - 10 DUNNIGAN EMERGENCY DISTRIBUTION ROOM**
E-405 SCALE: 3/8" = 1'-0"



5 **ELECTRICAL LIGHTING PART PLAN - 10 DUNNIGAN JANITOR'S CLOSET AND TOILET**
E-405 SCALE: 3/8" = 1'-0"



2 **ELECTRICAL LIGHTING PART PLAN - 20 DUNNIGAN JANITOR'S CLOSET AND TOILET**
E-405 SCALE: 3/8" = 1'-0"



4 **ELECTRICAL LIGHTING PART PLAN - 10 DUNNIGAN ELECTRIC ROOM**
E-405 SCALE: 3/8" = 1'-0"

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM.
3. REFER TO CONTRACT DRAWING E-607 FOR LIGHTING FIXTURE SCHEDULE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION, AND SPECIFICATIONS OF LIGHTING FIXTURES.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHTING CONTROL SYSTEM SPECIFICATIONS, DEVICE LAYOUT, AND QUANTITY OF CONTROL DEVICES.

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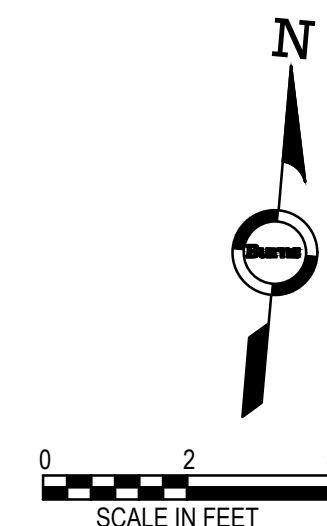
MANHATTAN BEER DISTRIBUTORS
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SUFFERN, NEW YORK

KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
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DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
**ELECTRICAL LIGHTING PART
PLANS - AUXILIARY ROOMS
SHEET 2 OF 2**



TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

DWG NUMBER :
E-405

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702 AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAM AND ELECTRICAL REQUIREMENTS OF EQUIPMENT.
3. ALL BRANCH CIRCUIT HOMERUNS SHOWN IN 10 DUNNIGAN JANITOR'S CLOSET & TOILET SHALL BE FED FROM PANEL 'LP-10A'.
3. ALL BRANCH CIRCUIT HOMERUNS SHOWN IN 20 DUNNIGAN JANITOR'S CLOSET & TOILET SHALL BE FED FROM PANEL 'LP-ASRS'.
4. REFER TO ARCHITECTURAL CONTRACT DRAWINGS FOR EXACT LOCATION OF RECEPTACLES.
5. REFER TO MECHANICAL AND PLUMBING CONTRACT DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT.

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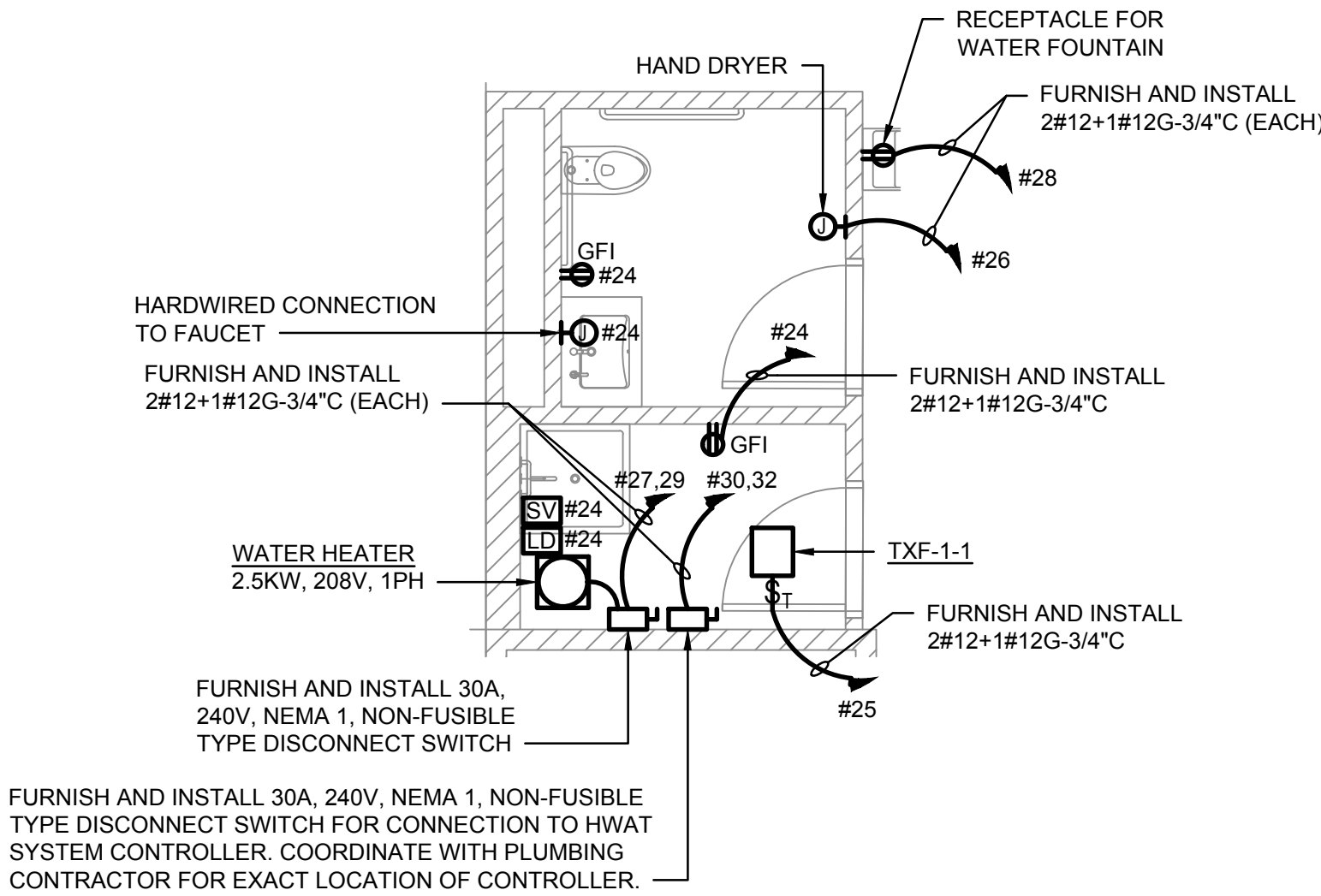
DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

DRAWING TITLE :
ELECTRICAL POWER PART
PLAN - JANITOR'S CLOSET &
TOILET ROOMS

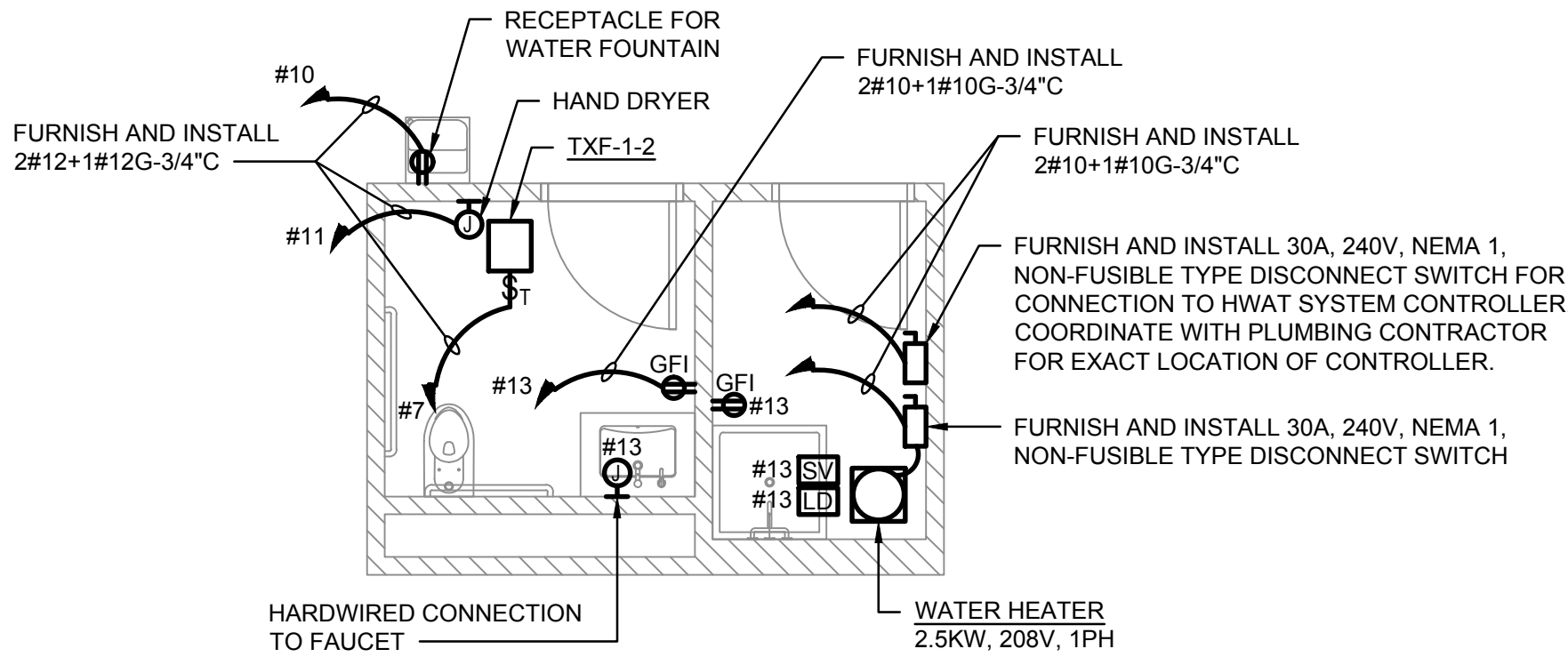
DWG NUMBER :

E-406

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
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ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

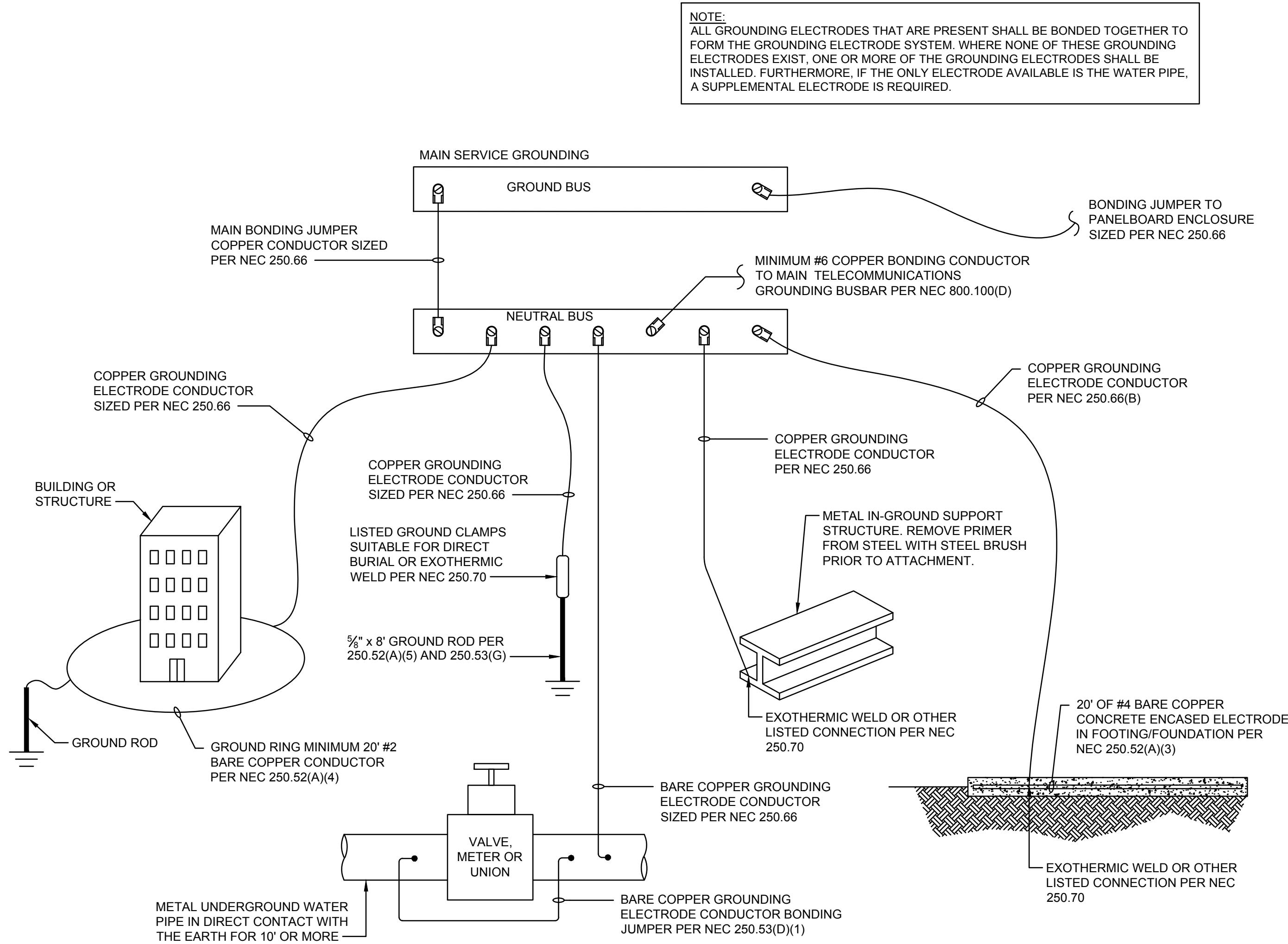


1 20 DUNNIGAN - JANITOR'S CLOSET & TOILET POWER PART PLAN
E-406
SCALE: 1/4" = 1'-0"
0 4 8
SCALE IN FEET



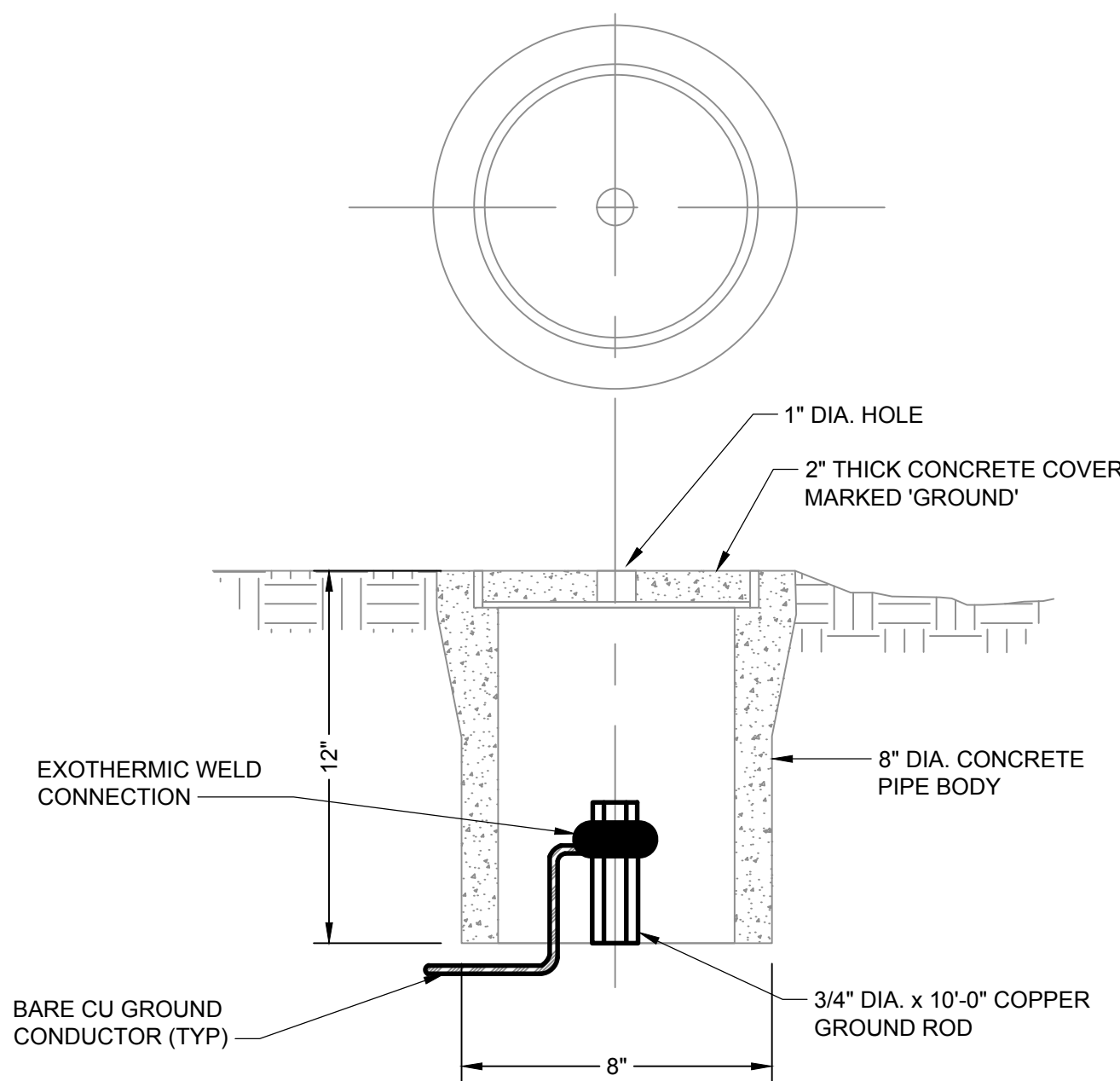
2 10 DUNNIGAN - JANITOR'S CLOSET & TOILET POWER PART PLAN
E-406
SCALE: 1/4" = 1'-0"
0 4 8
SCALE IN FEET





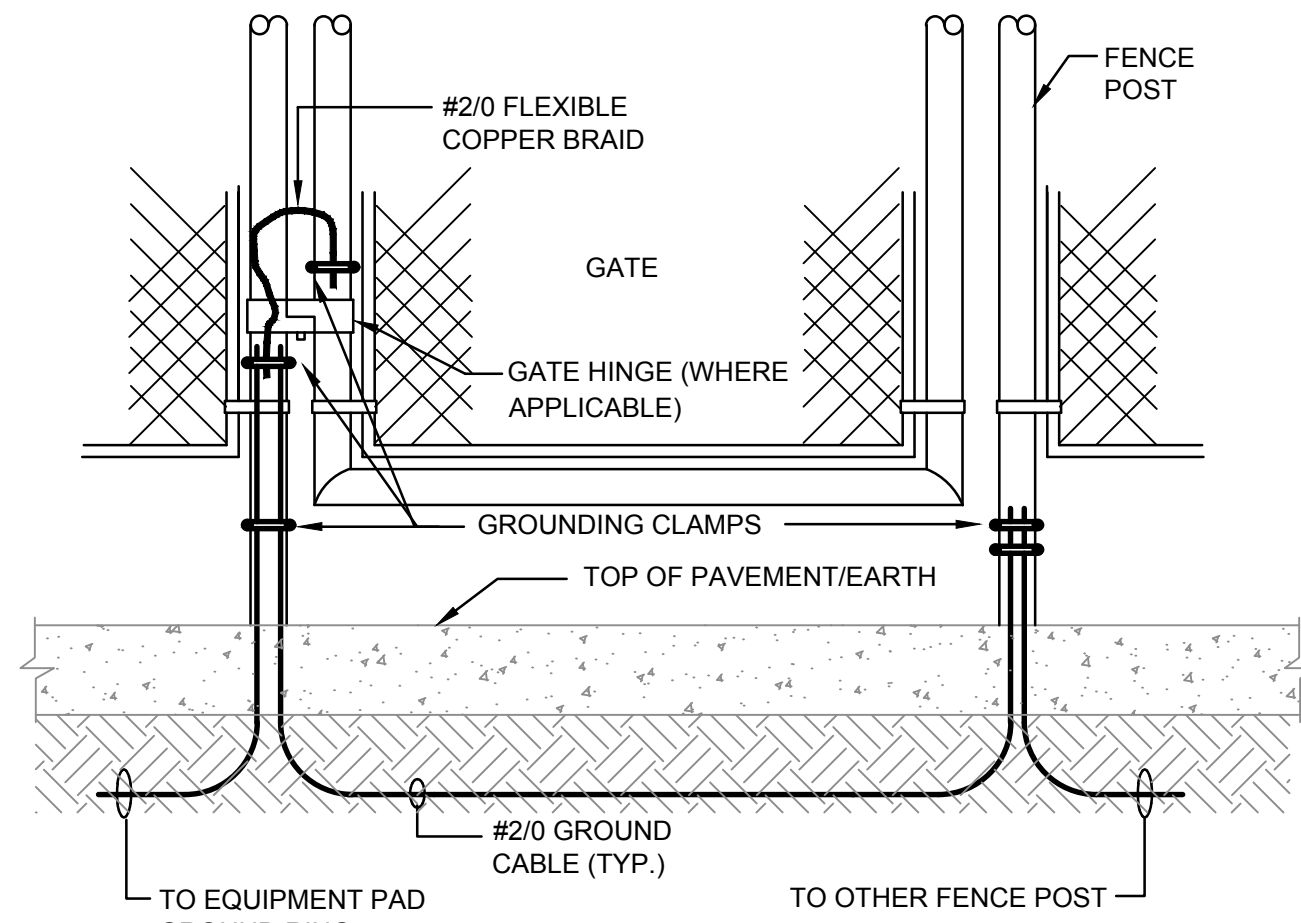
1
E501

GROUNDING ELECTRODE SYSTEM DETAIL



3
E501

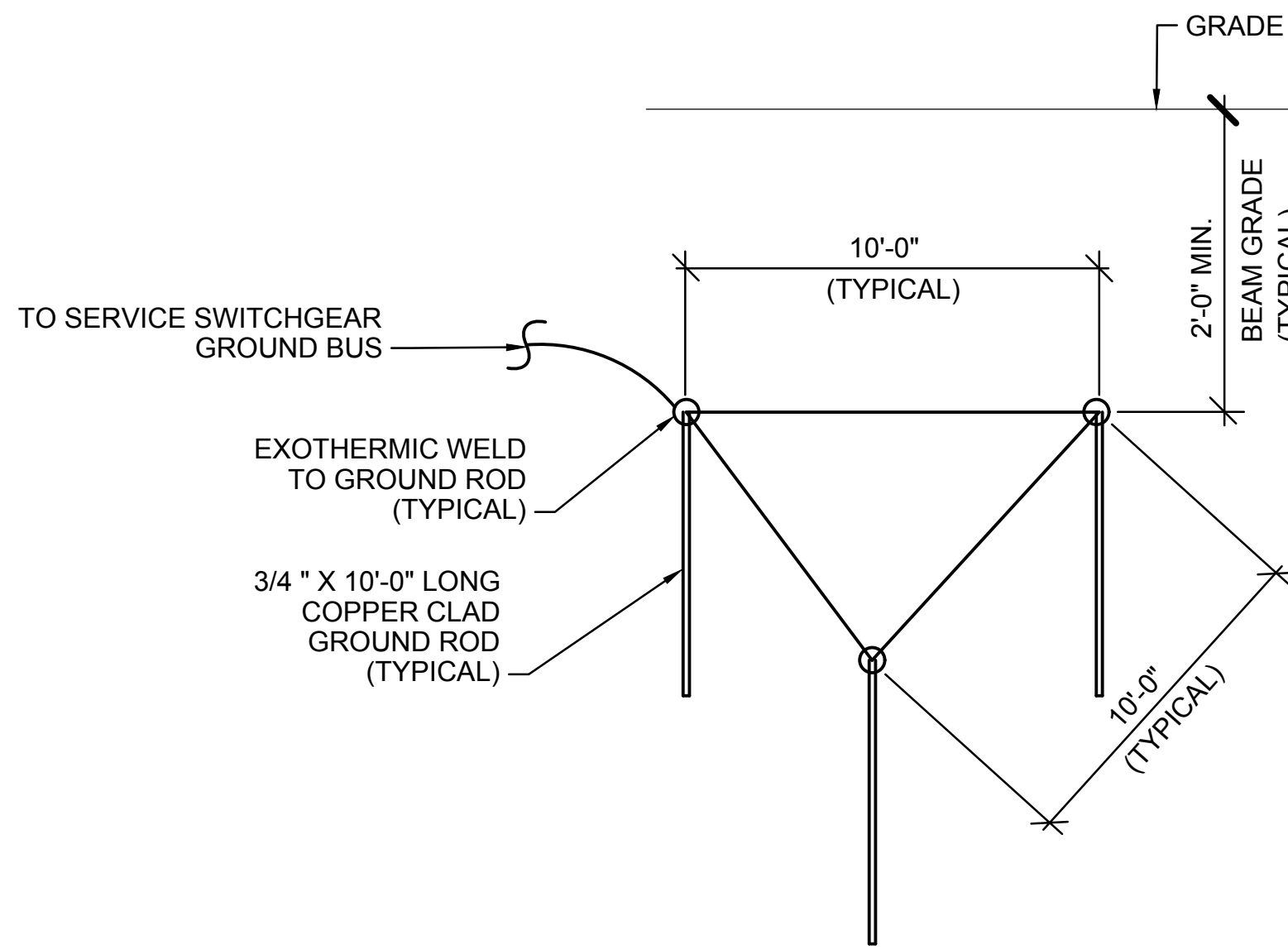
GROUND TEST WELL INSTALLATION DETAIL



NOTES
1. CONTRACTOR TO COORDINATE FENCE LOCATION AND INSTALLATION WITH ARCHITECT.

2
E501

FENCE GROUNDING DETAIL



4
E501

GROUND ROD COUNTERPOISE INSTALLATION DETAIL

NOTES:

- REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.

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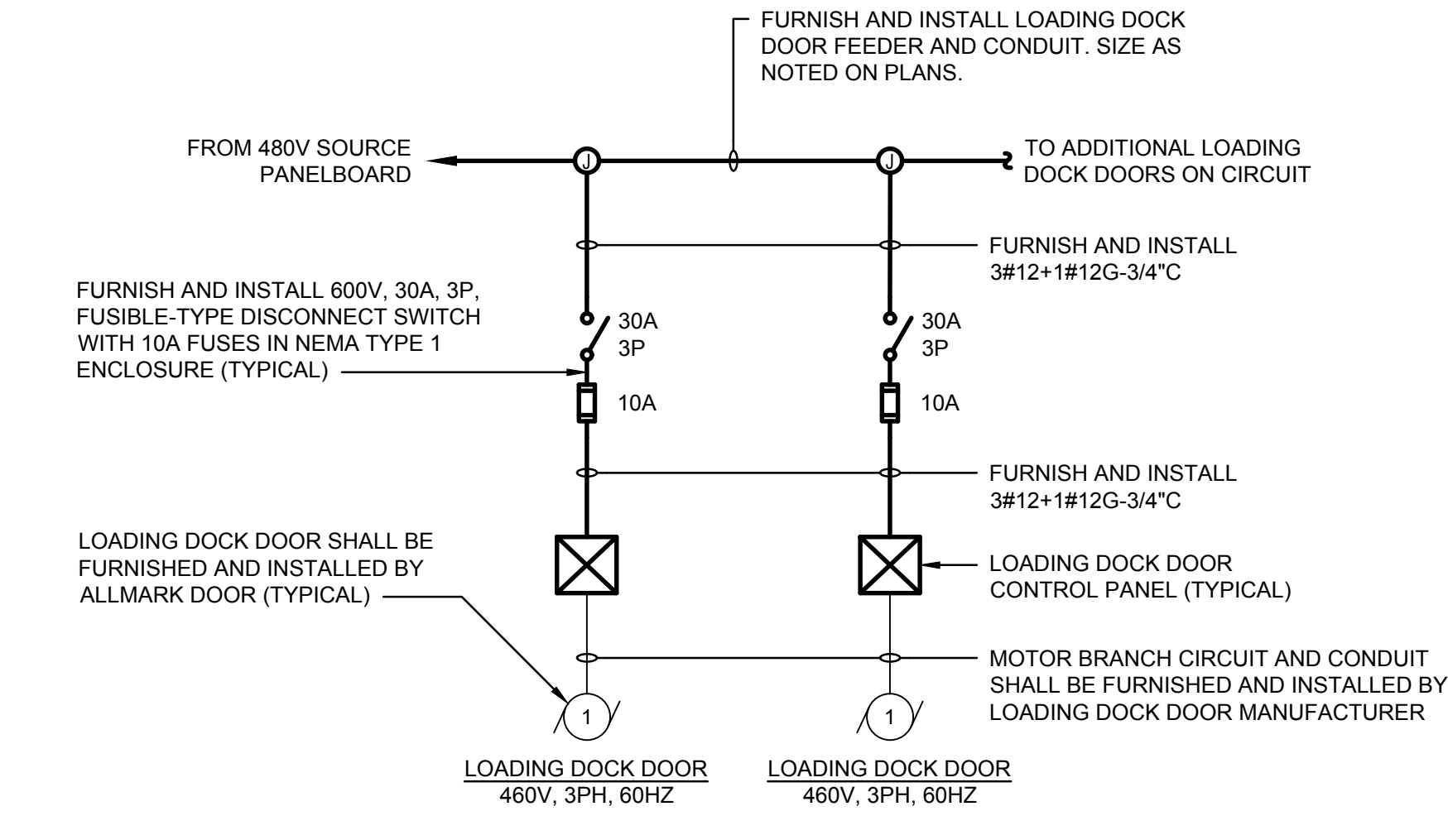
KEY PLAN

REV	DESCRIPTION	DATE
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DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	N.T.S.

DRAWING TITLE :
**ELECTRICAL GROUNDING
DETAILS**

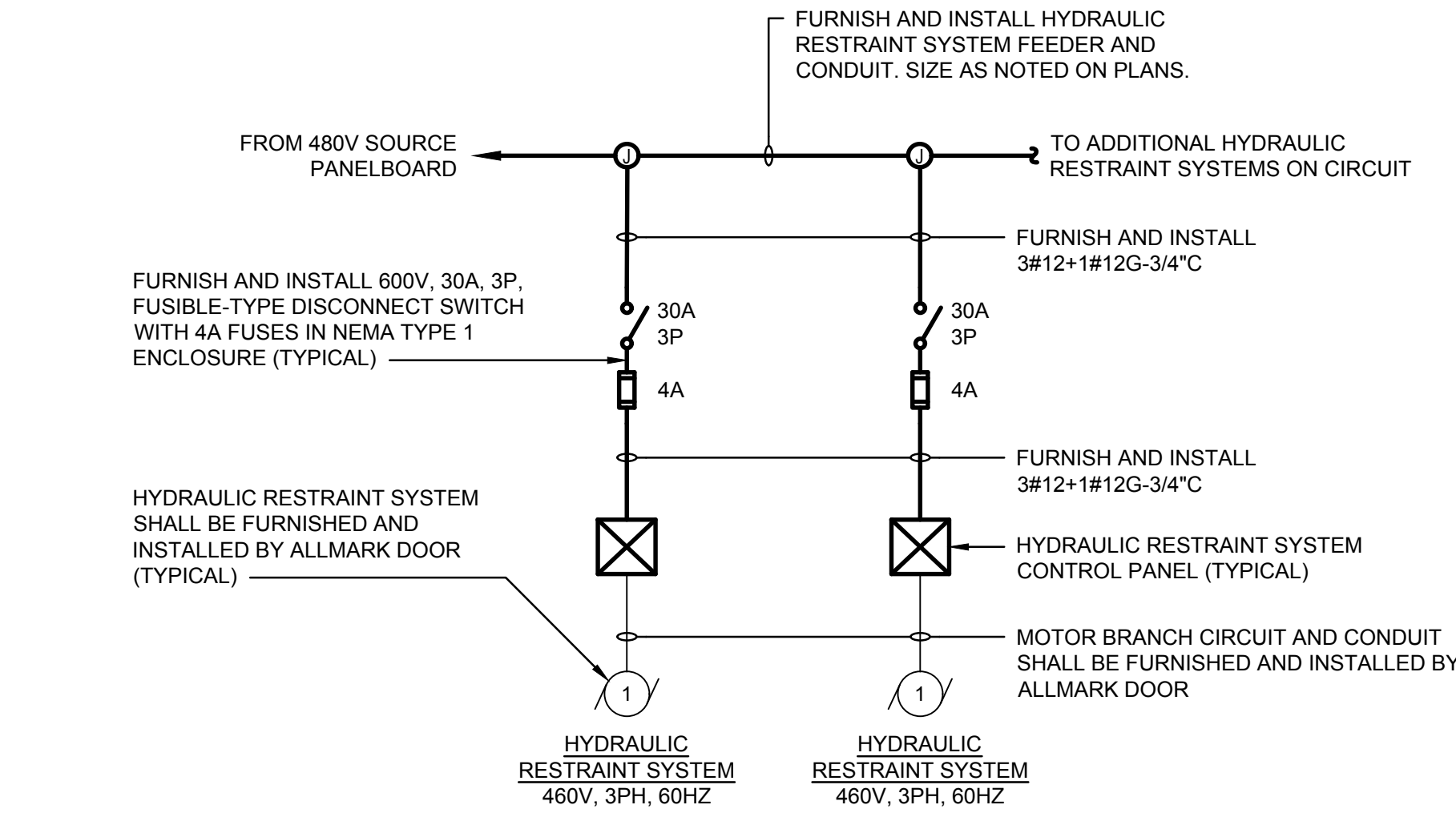
DWG NUMBER :
E-501



- NOTE:
1. RETAIN THE SERVICES OF ALLMARK DOOR (DONALD MARKHAM - DONALD.MARKHAM@ALLMARKDOORS.COM; 908-342-7187) FOR INSTALLATION AND TESTING OF LOADING DOCK DOOR SYSTEMS.
 2. AT EACH LOADING DOCK DOOR LOCATION, THERE SHALL BE AN OVERHEAD DOOR MOTOR AND A HYDRAULIC RESTRAINT SYSTEM.

1 LOADING DOCK DOOR - TYPICAL ELECTRICAL INSTALLATION

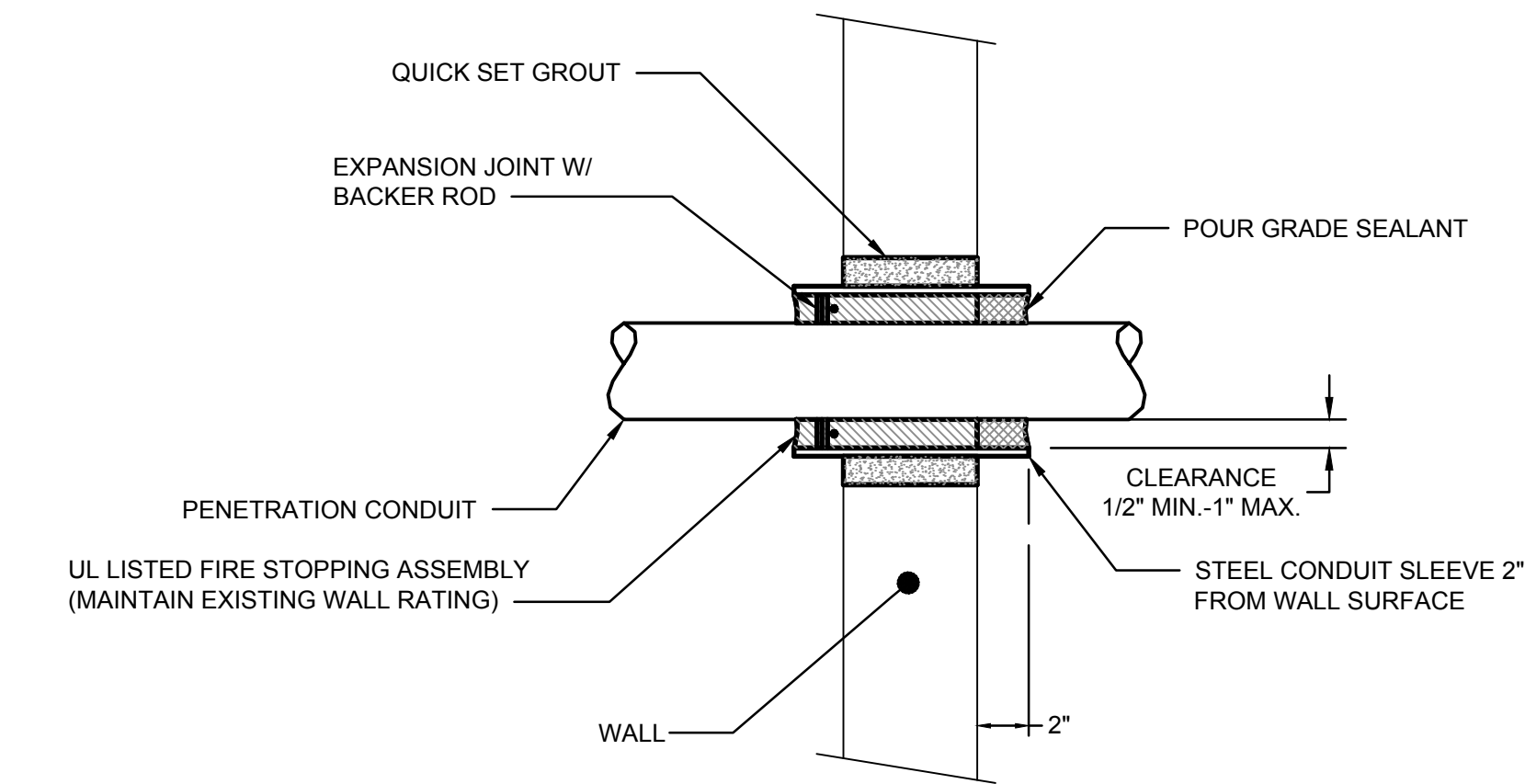
E502



- NOTE:
1. RETAIN THE SERVICES OF ALLMARK DOOR (DONALD MARKHAM - DONALD.MARKHAM@ALLMARKDOORS.COM; 908-342-7187) FOR INSTALLATION AND TESTING OF LOADING DOCK DOOR SYSTEMS.
 2. AT EACH LOADING DOCK DOOR LOCATION, THERE SHALL BE AN OVERHEAD DOOR MOTOR AND A HYDRAULIC RESTRAINT SYSTEM.

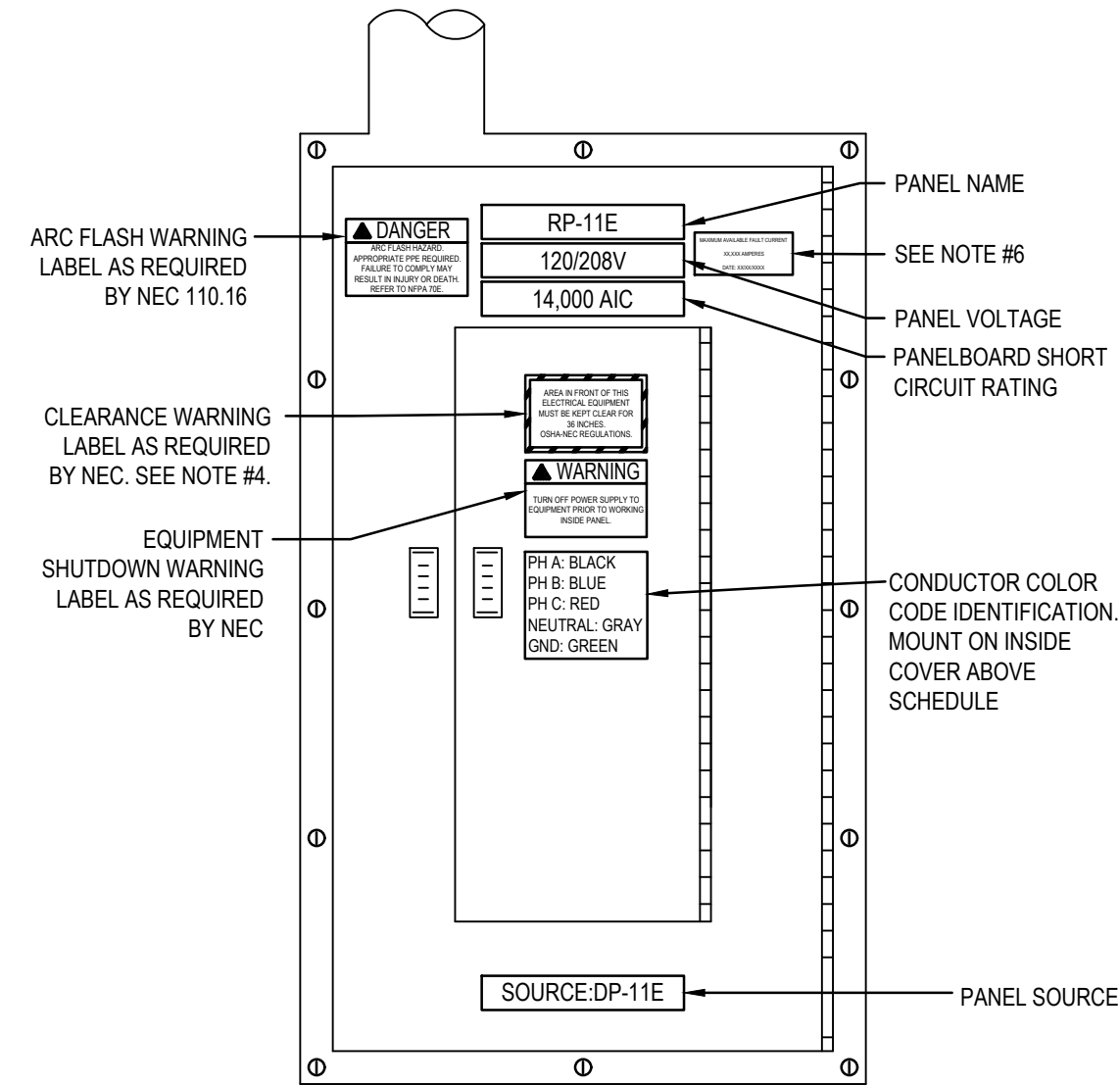
2 HYDRAULIC RESTRAINT SYSTEM - TYPICAL ELECTRICAL INSTALLATION

E502



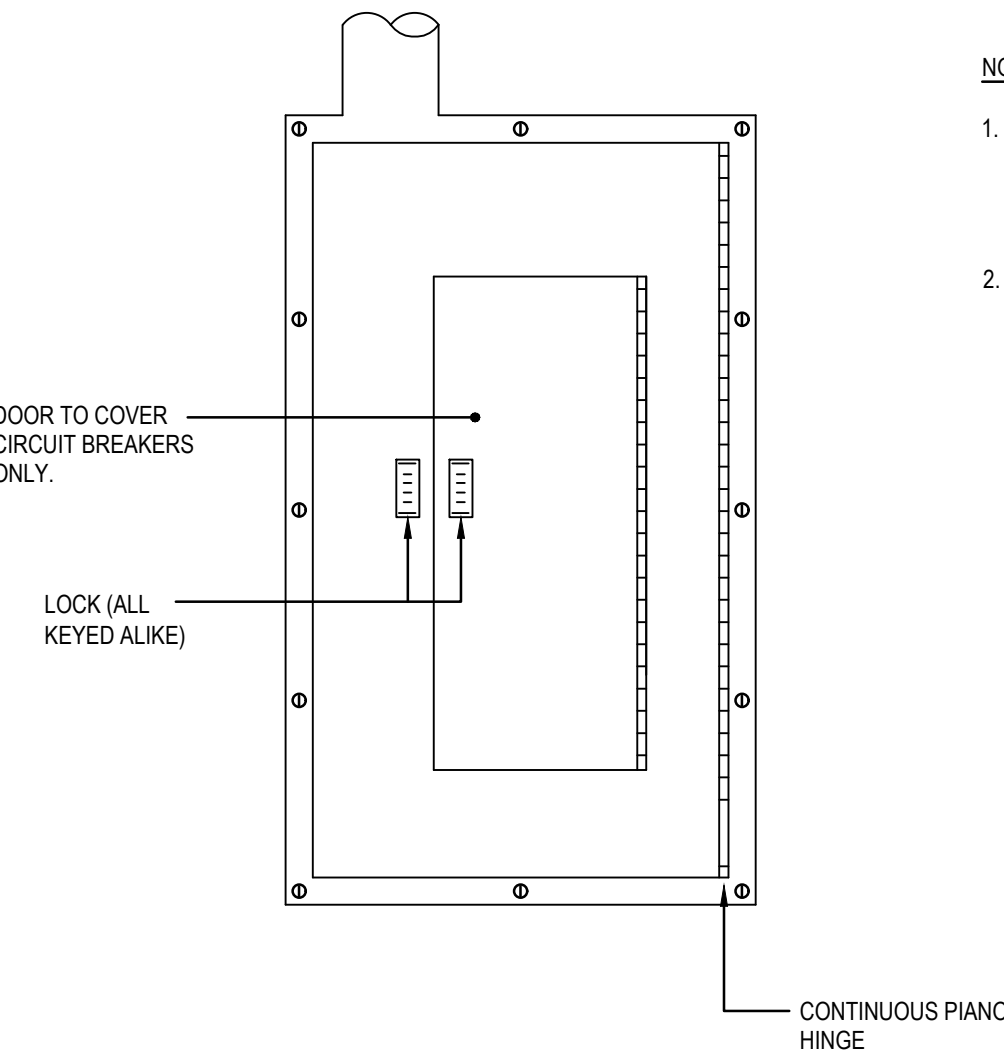
3 WALL PENETRATION AND FIRE STOPPING DETAIL

E502



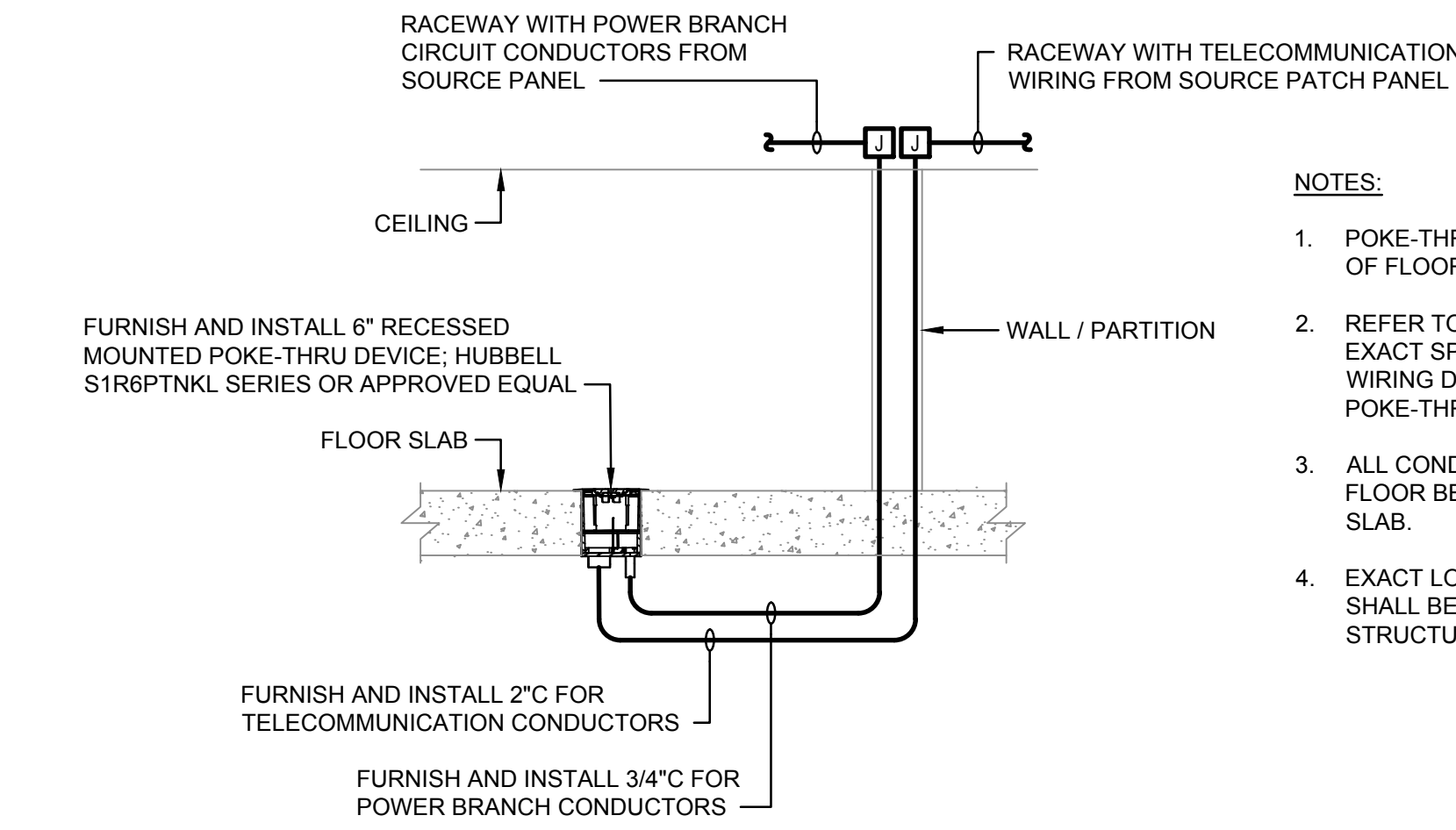
4 PANEL IDENTIFICATION & WARNING LABELING DETAIL

E502



5 DOOR IN DOOR COVER DETAIL

E502



6 RECESSED MOUNTED POKE-THRU DEVICE WIRING DETAIL

E502

- NOTES:
1. POKE-THRU DEVICE SHALL MATCH FIRE RATING OF FLOOR SLAB.
 2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SPECIFICATIONS AND QUANTITY OF WIRING DEVICES INSTALLED INSIDE EACH POKE-THRU DEVICE.
 3. ALL CONDUIT SHALL BE ROUTED IN CEILING OF FLOOR BELOW AND SUPPORTED TO CEILING SLAB.
 4. EXACT LOCATION OF CONDUIT PENETRATIONS SHALL BE COORDINATED WITH ARCHITECT AND STRUCTURAL ENGINEER.

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.

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MANHATTAN BEER DISTRIBUTORS
20 DUNNIGAN DRIVE
SUFFERN, NEW YORK

KEY PLAN

REV	DESCRIPTION	DATE
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DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	N.T.S.

DRAWING TITLE :
ELECTRICAL DETAILS

DWG NUMBER :

E-502

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THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

SERVICE SWITCHBOARD DESIGNATION : PRIMARY SERVICE SWITCHGEAR																
VOLTAGE		13200V		NEUTRAL		100%		BUS RATING		600 A						
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		14 K.A.I.C.		MAIN LUGS ONLY		600 A						
REMARKS																
FEEDER SWITCH					LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)								REMARKS
NO.	SW. SIZE	SW. TYPE	FUSE	FUSE TYPE				PHASE LEGS		NEUTRAL		GROUND		INSULATION TYPE	CONDUIT SIZE	
2	-	-	-	-	FIRE PUMP CONNECTION	129.70		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
3	600A	-	150A	E	EXISTING 20 DUNNINGAN SERVICE SWITCH	2846.36		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
4	600A	-	80A	E	PHOTOVOLTAIC SYSTEM CONNECTION	-		REFER TO PHOTOVOLTAIC SYSTEM DRAWINGS FOR FEEDER REQUIREMENTS								
5	600A	-	150A	E	SWITCHBOARD 'SWBD-N' VIA 'FMFR T-A'	1987.25		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
6	600A	-	40A	E	PANEL 'DP-10' VIA 'FMFR T-B'	302.32		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
7	-	-	-	-	FUTURE SWITCH	-										

DISTRIBUTION BOARD DESIGNATION : SWBD-N										TOTAL CONNECTED LOAD: 1980.0 KW			
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		3000 A		TOTAL DEMAND LOAD: 1755.1 KW	
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		65 K.A.I.C.		MAIN CIRCUIT BREAKER		3000 A			
REMARKS													

CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)								REMARKS
NO.	FRAME	TRIP	TYPE				PHASE LEGS		NEUTRAL		GROUND		INSULATION TYPE	CONDUIT SIZE	
							NO.	SIZE	NO.	SIZE	NO.	SIZE			
1	225A	100A		PANEL 'EM-LS-H' VIA 'ATS-LS'	24.97		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
2	1200A	800A		PANEL 'EM-EQ-H' VIA 'ATS-EQ'	516.89		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
3	400A	400A		PANEL 'EM-AS/RS-H' VIA 'ATS-AS/RS'	141.34		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
4	1200A	1200A		DISTRIBUTION PANELBOARD 'DP-AS/RS-1'	625.62		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
5	1200A	800A		DISTRIBUTION PANELBOARD 'DP-AS/RS-2'	333.11		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
6	1200A	800A		PANEL 'DP-OFFICE'	338.03		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								

DISTRIBUTION BOARD DESIGNATION : EMDP										TOTAL CONNECTED LOAD: 683.2 KW		
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		1200 A		TOTAL DEMAND LOAD: 522.3 KW
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		65 K.A.I.C.		MAIN CIRCUIT BREAKER		1200 A		
REMARKS												

CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)								REMARKS
NO.	FRAME	TRIP	TYPE				PHASE LEGS		NEUTRAL		GROUND		INSULATION TYPE	CONDUIT SIZE	
							NO.	SIZE	NO.	SIZE	NO.	SIZE			
1	225A	225A		PANEL 'EM-LS-H VIA 'ATS-LS'	24.97		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
2	800A	800A		PANEL 'EM-EQ-H VIA 'ATS-EQ'	516.89		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
3	400A	400A		PANEL 'EM-AS-RS-H VIA 'ATS-AS/RS'	141.34		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS								
4	-	-	-	SPACE & PROVISIONS	-		-								

DISTRIBUTION BOARD DESIGNATION : EM-EQ-H										TOTAL CONNECTED LOAD: 516.9 KW			
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		800 A		TOTAL DEMAND LOAD: 315.8 KW	
PHASE/WIRE		3Ø, 4W		MIN K.A.I.C. SYM		65 K.A.I.C.		MAIN CIRCUIT BREAKER		800 A			
REMARKS													

CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS		
NO.	FRAME	TRIP	TYPE				PHASE LEGS		NEUTRAL		GROUND			INSULATION TYPE	CONDUIT SIZE
							NO.	SIZE	NO.	SIZE	NO.	SIZE			
1	100A	20A		GAS BOOSTER PUMP	0.91		REFER TO DRAWING E-703 FOR FEEDER REQUIREMENTS								
2	400A	400A		PANEL 'EM-QC-10'	393.24		REFER TO DRAWING E-703 FOR FEEDER REQUIREMENTS								
3	100A	60A		ELEVATOR DISCONNECT	17.46		REFER TO DRAWING E-703 FOR FEEDER REQUIREMENTS								
4	100A	30A		LOADING DOCK DOORS (T31 - T33)	12.16		REFER TO DRAWING E-203 FOR FEEDER REQUIREMENTS								
5	100A	30A		LOADING DOCK DOORS (T34 - T37)	15.90		REFER TO DRAWING E-203 FOR FEEDER REQUIREMENTS								
6	100A	30A		LOADING DOCK DOORS (T38 - T41)	15.90		REFER TO DRAWING E-203 FOR FEEDER REQUIREMENTS								
7	150A	150A		PANEL 'EM-EQ-L' VIA FMTR 'T-EM-EQ'	17.96		REFER TO DRAWING E-703 FOR FEEDER REQUIREMENTS								
8	100A	20A		HYDRAULIC RESTRAINT SYSTEM (DOORS T31 - T35)	9.17		REFER TO DRAWING E-203 FOR FEEDER REQUIREMENTS								
9	100A	20A		HYDRAULIC RESTRAINT SYSTEM (DOORS T36 - T41)	10.91		REFER TO DRAWING E-203 FOR FEEDER REQUIREMENTS								
10	100A	35A		HOT WATER PUMP 'HWP-1-1'	11.64		REFER TO DRAWING E-703 FOR FEEDER REQUIREMENTS								
11	100A	35A		HOT WATER PUMP 'HWP-1-2' - STANDBY	11.64		REFER TO DRAWING E-703 FOR FEEDER REQUIREMENTS								

DISTRIBUTION BOARD DESIGNATION : DP-ASRS-1										TOTAL CONNECTED LOAD: 625.6 KW		
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATINGS		1200 A		TOTAL DEMAND LOAD: 625.6 KW
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		35 K.A.I.C.		MAIN CIRCUIT BREAKER		1200 A		
REMARKS												

CIRCUIT BREAKER				LOAD DESCRIPTION	LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS		
NO.	FRAME	TRIP	TYPE				PHASE LEGS		NEUTRAL		GROUND			INSULATION TYPE	CONDUIT SIZE
							NO.	SIZE	NO.	SIZE	NO.	SIZE			
1	200A	200A		AS/RS SRM #2	141.34		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
2	200A	200A		AS/RS SRM #3	141.34		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
3	100A	100A		AS/RS MCP #1	20.78		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
4	100A	100A		AS/RS MCP #2	20.78		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
5	100A	100A		AS/RS MCP #3	20.78		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
6	100A	100A		AS/RS MCP #4	20.78		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
7	100A	100A		AS/RS MCP #5	20.78		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
8	100A	100A		AS/RS MCP #6	20.78		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
9	100A	100A		AS/RS MCP #7	20.78		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
10	250A	250A		AS/RS VRC	20.78		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
11	-	-		SPACE & PROVISIONS	-		-								
12	-	-		SPACE & PROVISIONS	-		-								
13	-	-		SPACE & PROVISIONS	-		-								
14	-	-		SPACE & PROVISIONS	-		-								

PRIMARY SERVICE CALCULATIONS				
LOAD TYPE	CONNECTED LOAD	DEMAND LOAD		
LIGHTING	50.8 kW	63.5 kW	(125%)	
LIGHTING+RECEPT in Guestrooms	0.0 kW	0.0 kW		
LARGEST MOTOR	338.3 kW	422.8 kW	(125%)	TOTAL CONNECTED LOAD = 5065.6 kW
OTHER MOTORS	1148.2 kW	1148.2 kW	(100%)	
RECEPTACLES	59.8 kW	34.9 kW	(> 10kW, 50%)	TOTAL DEMAND LOAD = 3907.9 kW
CONTINUOUS	164.2 kW	205.3 kW	(125%)	
HEATING	9.7 kW	9.7 kW	(100%)	PERCENT SPARE CAPACITY = 30 %
NONCONTINUOUS	752.2 kW	752.2 kW	(100%)	
KITCHEN EQPT (COMMERCIAL)	0.0 kW	0.0 kW	(65.0%)	MINIMUM BALANCED 3-PHASE FEEDER W/ SPARE CAPACITY= 222.2 A
DIVERSE/NONCOINCIDENTAL	2542.4 kW	1271.2 kW	(50.0%)	

DISTRIBUTION BOARD DESIGNATION : DP-ASRS-2										TOTAL CONNECTED LOAD: 333.1 KW							
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATINGS		800 A		TOTAL DEMAND LOAD: 264.2 KW					
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		35 K.A.I.C.		MAIN CIRCUIT BREAKER		800 A							
REMARKS																	
CIRCUIT BREAKER				LOAD DESCRIPTION		LOAD (kVA)		QUANTITY OF FEEDERS (SETS)		FEEDER (EACH SET)						REMARKS	
NO.	FRAME	TRIP	TYPE							PHASE LEGS		NEUTRAL		GROUND			
1	100A	60A		PANEL 'LP-AS/RS' VIA XFMR 'T-AS/RS'	21.15	REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS											
2	225A	175A		AIR COMPRESSOR (60HP)	72.50	REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS											
3	225A	175A		AIR COMPRESSOR (60HP) - STANDBY	72.50	REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS											
4	100A	20A		AIR COMPRESSOR DRYER	2.50	REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS											
5	150A	150A		PANEL 'PP-AC'	71.33	REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS											
6	250A	200A		PANEL 'PP-M'	93.14	REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS											
7	-	-		SPACE & PROVISIONS	-	-											
8	-	-		SPACE & PROVISIONS	-	-											
9	-	-		SPACE & PROVISIONS	-	-											
10	-	-		SPACE & PROVISIONS	-	-											

DISTRIBUTION BOARD DESIGNATION : DP-10										TOTAL CONNECTED LOAD: 302.3 KW		
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		800 A		TOTAL DEMAND LOAD: 311.9 KW
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		22 K.A.I.C.		MAIN CIRCUIT BREAKER		800 A		
REMARKS												

CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS		
NO.	FRAME	TRIP	TYPE				PHASE LEGS		NEUTRAL		GROUND			INSULATION TYPE	CONDUIT SIZE
							NO.	SIZE	NO.	SIZE	NO.	SIZE			
1	225A	225A		PANELBOARD 'PPH-10A'	111.16		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
2	225A	225A		PANELBOARD 'PPH-10B'	129.70		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
3	225A	225A		PANELBOARD LP-10A' VIA XFMR T-10'	11.53		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
4	100A	100A		AS/RS MCP #9	20.78		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
5	100A	100A		AS/RS MCP #10	20.78		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
6	225A	225A		PANELBOARD 'PPH-10C'	8.36		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
7	-	-		SPACE & PROVISIONS	-		-								
8	-	-		SPACE & PROVISIONS	-		-								

DISTRIBUTION BOARD DESIGNATION : DP-OFFICE										TOTAL CONNECTED LOAD: 338.0 KW					
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		800 A		TOTAL DEMAND LOAD: 345.2 KW			
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		14 K.A.I.C.		MAIN CIRCUIT BREAKER		800 A					
LOCATION				ADMIN OFFICE ELECTRICAL ROOM											
CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS		
NO.	FRAME	TRIP	TYPE				PHASE LEGS		NEUTRAL		GROUND			INSULATION TYPE	CONDUIT SIZE
							NO.	SIZE	NO.	SIZE	NO.	SIZE			
1	150A	150A		PANELBOARD 'PP-A' VIA 'XMR T-OFFICE'	90.51		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
2	150A	125A		PACKAGED ROOFTUP AC (RTAC-R-1)	93.53		REFER TO DRAWING E-307 FOR FEEDER REQUIREMENTS								
3	150A	150A		PANELBOARD 'PP-R-1'	97.15		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
4	100A	100A		PANELBOARD 'PP-R-2' VIA 'XMR T-ROOF'	1.80		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
5	100A	70A		PACKAGED ROOFTUP AC (RTAC-R-2)	48.54		REFER TO DRAWING E-312 FOR FEEDER REQUIREMENTS								
6	100A	100A		PANELBOARD 'LP-A'	6.51		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
7	-	-		SPACE & PROVISIONS	-		-								
8	-	-		SPACE & PROVISIONS	-		-								
9	-	-		SPACE & PROVISIONS	-		-								
10	-	-		SPACE & PROVISIONS	-		-								

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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MANHATTAN BEER DISTRIBUTORS
20 DUNNIGAN DRIVE
SUFFERN, NEW YORK

KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY : M.DIMATTIA

CHECKED BY : B.NEMCHEK

APPROVED BY : J.MIZRAHI

DATE : 09/10/21

SCALE : N.T.S.

DRAWING TITLE :

ELECTRICAL PANEL
SCHEDULES SHEET 1 OF 6

DWG NUMBER :

E-601

PANEL DESIGNATION: EM-EQ-L	LOCATION: ADMIN OFFICE ELECTRICAL ROOM					REMARKS: * FURNISH AND INSTALL GFCI TYPE CIRCUIT BREAKER NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
	SERVICE: 208Y/120 V		3 PHASE, 4 WIRE						
	MAIN BUS RATING: 225 AMPS								
	MAIN CIRCUIT BREAKER: 150 AMPS								
	SCC RATING (SYM.): 10 k A.I.C.								
		MOUNTING: SURFACE MOUNTED							
SERVICE TO:		TRIP NO.	A	B	C	NO.	TRIP	SERVICE TO:	
ELEVATOR CAB LIGHTING		20A	1	2000		2	20A	IT ROOM RECEPTACLES	
ELEVATOR MACHINERY SPACE RECEPT		20A	3		1680	4	20A	IT ROOM RECEPTACLES	
ELEVATOR MACHINERY SPACE LIGHTS		20A	5			1700	6	20A	IT ROOM RECEPTACLES
ELEVATOR HOISTWAY RECEPT		20A	7	680		8	20A	BOILER ROOM BMS & RECEPTACLES	
ELEVATOR HOISTWAY LIGHTS		20A	9		1190	10	20A	MER FAN 'MXF-1-1' & DAMPER	
UNIT HEATERS FOR LOADING DOORS 'T31' - 'T41'		20A	11			2250	12	20A	MER UNIT HEATER, WATER HEATER, RECIRC PUMP
BOILER B-1-1		20A	13	2080		14	20A	* HOT WATER TEMPERATURE MAINTENANCE - MEZZ 1	
BOILER B-1-2		20A	15		2080	16			
WATER SOFTENER		20A	17			600	18	20A	* HOT WATER TEMPERATURE MAINTENANCE - MEZZ 2
EMERGENCY ROOM TF-1-3		20A	19	1000		20			
SPARE		20A	21		1350	22	20A	* HOT WATER TEMPERATURE MAINTENANCE - ADMIN	
SPARE		20A	23			1350	24		
SPARE		20A	25	0		26	20A	SPARE	
SPARE		20A	27		0	28	20A	SPARE	
SPARE		20A	29			0	30	20A	SPARE
SPARE		20A	31	0		32	20A	SPARE	
SPARE		20A	33		0	34	20A	SPARE	
SPARE		20A	35			0	36	20A	SPARE
SPARE		20A	37	0		38	20A	SPARE	
SPARE		20A	39		0	40	20A	SPARE	
SPARE		20A	41			0	42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)		5.76	6.30	5.90					
TOTAL CONNECTED LOAD		17.96 KVA			49.9 A				
TOTAL DEMAND LOAD		20.79 KVA			57.7 A				

PANEL DESIGNATION: EM-ASRS-H	LOCATION: EMERGENCY ELECTRICAL ROOM					REMARKS: NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
	SERVICE:	480Y/277 V	3 PHASE, 4 WIRE						
	MAIN BUS RATING:	400 AMPS							
	MAIN CIRCUIT BREAKER:	400 AMPS							
	SCC RATING (SYM.):	65 k A.I.C.							
	MOUNTING:	SURFACE MOUNTED							
SERVICE TO:		TRIP NO.	A	B	C	NO.	TRIP	SERVICE TO:	
SRM#1		200A	1	47112		2	20A	SPARE	
			3		47112	4	20A	SPARE	
			5			47112	6	20A	SPARE
SPARE		20A	7	0		8	20A	SPARE	
SPARE		20A	9		0	10	20A	SPARE	
SPARE		20A	11			0	12	20A	SPARE
SPARE		20A	13	0		14	20A	SPARE	
SPARE		20A	15		0	16	20A	SPARE	
SPARE		20A	17			0	18	20A	SPARE
SPACE & PROVISIONS		-	19	0		20	-	SPACE & PROVISIONS	
SPACE & PROVISIONS		-	21		0	22	-	SPACE & PROVISIONS	
SPACE & PROVISIONS		-	23			0	24	-	SPACE & PROVISIONS
SPACE & PROVISIONS		-	25	0			26	-	SPACE & PROVISIONS
SPACE & PROVISIONS		-	27		0	28	-	SPACE & PROVISIONS	
SPACE & PROVISIONS		-	29			0	30	-	SPACE & PROVISIONS
TOTAL CONNECTED LOAD PER PHASE (KVA)			47.11	47.11	47.11				
TOTAL CONNECTED LOAD			141.34 KVA			170.0 A			
TOTAL DEMAND LOAD			176.67 KVA			212.5 A			

PANEL DESIGNATION: EM-QC-10	LOCATION: 10 DUNNIGAN ELECTRICAL ROOM					REMARKS: NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE						
	MAIN BUS RATING: 400 AMPS								
	MAIN CIRCUIT BREAKER: 400 AMPS								
	SCC RATING (SYM.): 14 k A.I.C.								
		MOUNTING: SURFACE MOUNTED							
SERVICE TO:		TRIP NO.	A	B	C	NO.	TRIP	SERVICE TO:	
QUICK CHARGER #1		60A	1	23833		2		QUICK CHARGER #2	
			3		23833	4	60A		
			5			23833	6		
QUICK CHARGER #3		60A	7	23833		8		QUICK CHARGER #4	
			9		23833	10	60A		
			11			23833	12		
QUICK CHARGER #5		60A	13	23833		14		QUICK CHARGER #6	
			15		23833	16	60A		
			17			23833	18		
QUICK CHARGER #7		60A	19	23833		20		QUICK CHARGER #8	
			21		23833	22	60A		
			23			23833	24		
QUICK CHARGER #9		60A	25	23833		26		QUICK CHARGER #10	
			27		23833	28	60A		
			29			23833	30		
QUICK CHARGER #11		60A	31	11917		32	20A	SPARE	
			33		11917	34	20A	SPARE	
			35			11917	36	20A	SPARE
SPARE		20A	37	0		38	20A	SPARE	
SPARE		20A	39		0	40	20A	SPARE	
SPARE		20A	41			0	42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			131.08	131.08	131.08				
TOTAL CONNECTED LOAD			393.24 KVA			473.0 A			
TOTAL DEMAND LOAD			196.62 KVA			236.5 A			

PANEL DESIGNATION: PP-M	LOCATION: AS/RS ELECTRICAL ROOM				REMARKS: NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO				
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE						
	MAIN BUS RATING: 225 AMPS								
	MAIN LUGS ONLY: 200 AMPS								
	SCC RATING (SYM.): 35 k A.I.C.								
		MOUNTING: SURFACE MOUNTED		GROUNDING:					
SERVICE TO:		TRIP NO.	A	B	C	NO.	TRIP	SERVICE TO:	
VENTILATION FANS 'F-1-1' THROUGH 'F-1-4'		20A	1	8328		2		AIR CURTAINS AT RAIL DOORS	
			3		8328	4	20A		
			5			8328	6		
VENTILATION FANS 'F-1-5' THROUGH 'F-1-7'		20A	7	7385		8		AIR CURTAINS AT RAIL DOORS	
			9		7385	10	20A		
			11			7385	12		
VENTILATION FANS 'F-1-8' THROUGH 'F-1-10'		20A	13	8362		14		LOADING DOCK DOORS AT RAIL	
			15		8362	16	30A		
			17			8362	18		
VENTILATION FANS 'F-1-11' THROUGH 'F-1-13'		20A	19	3062		20	20A	SPARE	
			21		3062	22	20A	SPARE	
			23			3062	24	20A	SPARE
ASRS SOUTHLIGHTING		20A	25	1988		26	20A	ASRS SOUTHLIGHTING	
ASRS SOUTHLIGHTING		20A	27		920	28	20A	SPARE	
SPARE		20A	29			0	30	20A	SPARE
ASRS SOUTHLIGHTING		20A	31	1975		32	20A	ASRS SOUTHLIGHTING	
ASRS SOUTHLIGHTING		20A	33		1973	34	20A	CANOPY LIGHTING	
CANOPY LIGHTING		20A	35			1404	36	20A	CANOPY LIGHTING
CANOPY LIGHTING		20A	37	518		38	20A	JANITOR'S CLOSET 120 AND TOILET 121 LIGHTING	
NEW BUILDING ELECTRIC ROOM LIGHTING		20A	39		120	40	20A	AIR COMPRESSION AND FIRE PUMP LIGHTING	
BOILER ROOM LIGHTING		20A	41			54	42	20A	SPARE
SPARE		20A	43	468		44	20A	CANOPY LIGHTING	
ASRS SOUTHLIGHTING		20A	45		1388	46	20A	CANOPY LIGHTING	
ASRS SOUTHLIGHTING		20A	47			920	48	20A	SPARE
SPARE		20A	49	0		50	20A	SPARE	
SPARE		20A	51		0	52	20A	SPARE	
SPARE		20A	53			0	54	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			32.09	31.54	29.52				
TOTAL CONNECTED LOAD			93.14 KVA			112.0 A			
TOTAL DEMAND LOAD			96.07 KVA			115.6 A			

PANEL DESIGNATION: LP-ASRS	LOCATION: AS/RS ELECTRICAL ROOM					REMARKS: * FURNISH AND INSTALL GFCI TYPE CIRCUIT BREAKER NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
	SERVICE: 208Y/120 V		3 PHASE, 4 WIRE						
	MAIN BUS RATING: 100 AMPS								
	MAIN CIRCUIT BREAKER: 100 AMPS								
	SCC RATING (SYM.): 10 k A.I.C.								
		MOUNTING: SURFACE MOUNTED							
SERVICE TO:		TRIP NO.	A	B	C	NO.	TRIP	SERVICE TO:	
AAP #1		20A	1	1200		2	20A	PLC #1	
AAP #2		20A	3		1200	4	20A	PLC #2	
AAP #3		20A	5			6	20A	PLC #3	
PROFILE CHECK #1		20A	7	1200		8	20A	NETWORK PANEL	
PROFILE CHECK #2		20A	9		1200	10	20A	PRINT AND APPLY #1	
PROFILE CHECK #3		20A	11			12	20A	PRINT AND APPLY #2	
OVERHEAD MONITOR #1		20A	13	1200		14	20A	PRINT AND APPLY #3	
OVERHEAD MONITOR #2		20A	15		1200	16	20A	PRINT AND APPLY #4	
OVERHEAD MONITOR #3		20A	17		2040	18	20A	AS/RS MAINTENANCE RECEPTACLES	
UNIT HEATERS FOR RAIL DOORS		20A	19	1104		20	20A	AS/RS MAINTENANCE RECEPTACLES	
EXHAUST FAN 'TF-1-1'		20A	21		1840	22	20A	ELECT. & MECH. ROOM RECEPTACLES	
		23				1660	24	20A	RESTROOM RECEPTACLES
EXH/SUT FANS 'TF-1-2' & 'TXF-1-1'		20A	25	1553		26	20A	HAND DRYER	
WATER HEATER		20A	27		1850	28	20A	* WATER FOUNTAIN	
		29				1375	30	20A	* HOT WATER TEMPERATURE MAINTENANCE
SPARE		20A	31	125		32	20A		
SPARE		20A	33		0	34	20A	SPARE	
SPARE		20A	35			0	36	20A	SPARE
SPARE		20A	37	0		38	20A	SPARE	
SPARE		20A	39		0	40	20A	SPARE	
SPARE		20A	41			0	42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			6.38	7.29	7.48				
TOTAL CONNECTED LOAD			21.15 KVA			58.7 A			
TOTAL DEMAND LOAD			21.80 KVA			60.5 A			

PANEL DESIGNATION: PPH-10A	LOCATION: 10 DUNNIGAN ELECTRICAL ROOM					REMARKS:				
	SERVICE:	480Y/277 V		3 PHASE, 4 WIRE						
	MAIN BUS RATING:	225 AMPS		225 AMPS						
	MAIN LUGS ONLY:	225 AMPS		22 A.I.C.						
	SCC RATING (SYM.):	22 A.I.C.		22 A.I.C.						
		MOUNTING:		SURFACE MOUNTED		NEUTRAL BUS: 100% GROUNDING: EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO				
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
LOADING DOCK DOORS (T57 - T60)		30A	1	10600				2	30A	LOADING DOCK DOORS (T45 - T48)
			3		10600			4		
			5			10600		6		
LOADING DOCK DOORS (T53 - T56)		30A	7	9353				8	30A	LOADING DOCK DOORS (T42 - T44)
			9		9353			10		
			11			9353		12		
LOADING DOCK DOORS (T49 - T52)		30A	13	8937				14	20A	HYDRAULIC RESTRAINT SYSTEMS (DOORS T55 - T60)
			15		8937			16		
			17			8937		18		
SPRINKLER RISER CLOSET 111 LIGHTING		20A	19	3664				20	20A	HYDRAULIC RESTRAINT SYSTEMS (DOORS T49 - T54)
EMERGENCY DISTRIBUTION ROOM LIGHTING		20A	21		3691		22			
10 DUNNIGAN ELECTRIC ROOM LIGHTING		20A	23			3691	24			
SPRINKLER RISER CLOSET 109 LIGHTING		20A	25	4246				26	20A	HYDRAULIC RESTRAINT SYSTEMS (DOORS T42 - T48)
JANITOR'S CLOSET 122 AND TOILET 123 LIGHTING		20A	27		4269		28			
10 DUNNIGAN SOUTH SITE LIGHTING		20A	29			4549	30			
10 DUNNIGAN SOUTH SITE LIGHTING		20A	31	375				32	20A	SPARE
SPARE		20A	33		0			34	20A	SPARE
SPARE		20A	35			0		36	20A	SPARE
SPARE		20A	37	0				38	20A	SPARE
SPARE		20A	39		0			40	20A	SPARE
SPARE		20A	41			0		42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			37.18	36.85	37.13					
TOTAL CONNECTED LOAD			111.16 KVA			133.7 A				
TOTAL DEMAND LOAD			115.36 KVA			138.8 A				

PANEL DESIGNATION: PPH-10B	LOCATION: 10 DUNNIGAN ELECTRICAL ROOM					REMARKS:				
	SERVICE:	480Y/277 V	3 PHASE, 4 WIRE							
	MAIN BUS RATING:	225 AMPS			NEUTRAL BUS: 100%					
	MAIN LUGS ONLY:	225 AMPS						EQUIPMENT GROUND BUS: YES		
	SCC RATING (SYM.):	22 k A.I.C.							ISOLATED GROUND BUS: NO	
		MOUNTINGS		SURFACE MOUNTED		GROUNDING:				
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
AIR CURTAINS FOR DOORS (T42 & T43)		20A	1	8646				2	20A	AIR CURTAINS FOR DOORS (T56 & T57)
			3		8646			4		
			5			8646		6		
AIR CURTAINS FOR DOORS (T44 & T45)		20A	7	8646				8	20A	AIR CURTAINS FOR DOORS (T58 & T59)
			9		8646			10		
			11			8646		12		
AIR CURTAINS FOR DOORS (T46 & T47)		20A	13	8646				14	20A	AIR CURTAIN FOR DOOR (T80)
			15		8646			16		
			17			8646		18		
AIR CURTAINS FOR DOORS (T48 & T49)		20A	19	4323				20	20A	SPARE
			21		4323			22	20A	SPARE
			23			4323		24	20A	SPARE
AIR CURTAINS FOR DOORS (T50 & T51)		20A	25	4323				26	20A	SPARE
			27		4323			28	20A	SPARE
			29			4323		30	20A	SPARE
AIR CURTAINS FOR DOORS (T52 & T53)		20A	31	4323				32	20A	SPARE
			33		4323			34	20A	SPARE
			35			4323		36	20A	SPARE
AIR CURTAINS FOR DOORS (T54 & T55)		20A	37	4323				38	20A	SPARE
			39		4323			40	20A	SPARE
			41			4323		42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			43.23	43.23	43.23					
TOTAL CONNECTED LOAD						129.70 KVA	156.0 A			
TOTAL DEMAND LOAD						132.94 KVA	159.9 A			

PANEL DESIGNATION: PP-A	LOCATION: ADMIN OFFICE ELECTRICAL ROOM					REMARKS: * FURNISH AND INSTALL GFCI TYPE CIRCUIT BREAKER.		
	SERVICE:	208Y/120 V	3 PHASE, 4 WIRE					
	MAIN BUS RATING:	400 AMPS						
	MAIN CIRCUIT BREAKER:	250 AMPS			NEUTRAL BUS: 100%			
	SCC RATING (SYM.):	10 K A.I.C.			EQUIPMENT GROUND BUS: YES			
	MOUNTING:	SURFACE MOUNTED			ISOLATED GROUND BUS: NO			
SERVICE TO:	TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
MEZZ 1 - OPERATIONS OFFICE RECEPTACLES	20A	1	2520			2	20A	MEZZ 1 - OPERATIONS OFFICE RECEPTACLES
MEZZ 1 - OPERATIONS OFFICE RECEPTACLES	20A	3		2520		4	20A	MEZZ 1 - OPERATIONS OFFICE RECEPTACLES
MEZZ 1 - OPERATIONS OFFICE RECEPTACLES	20A	5			1800	6	20A	MEZZ 1 - DELIVERY ROOM RECEPTACLES
MEZZ 1 - RESTROOM RECEPTACLES	20A	7	2400			8	20A	* MEZZ 1 - VENDING MACHINE
MEZZ 1 - HAND DRYER	20A	9		3000		10	20A	* MEZZ 1 - VENDING MACHINE
MEZZ 1 - CORRIDOR & DELIVERY RECEPTACLES	20A	11			2580	12	20A	* MEZZ 1 - VENDING MACHINE
MEZZ 2 - MANAGERIAL OFFICE RECEPTACLES	20A	13	1800			14	20A	MEZZ 1 - BREAKROOM RECEPTACLES
MEZZ 2 - MANAGERIAL OFFICE RECEPTACLES	20A	15		2580		16	20A	MEZZ 1 - WATER HEATER
MEZZ 2 - CONFERENCE ROOM RECEPTACLES	20A	17			2760	18	20A	MEZZ 1 - MICROWAVE
MEZZ 2 - MENS LOCKER ROOM RECEPTACLES	20A	19	2580			20	20A	MEZZ 1 - REFRIGERATOR
MEZZ 2 - MENS RESTROOM RECEPTACLES	20A	21		1800		22	20A	MEZZ 2 - RECEPTION RECEPTACLES
MEZZ 2 - HAND DRYER	20A	23			2580	24	20A	MEZZ 2 - OFFICE RECEPTACLES
MEZZ 2 - CORRIDOR RECEPTACLES	20A	25	1260			26	20A	ADMIN OFFICE - PANTRY & LACTATION RECEPT.
ADMIN OFFICE - RESTROOM RECEPTACLES	20A	27		2700		28	20A	ADMIN OFFICE - CATERING HALL RECEPTACLES
ADMIN OFFICE - COPIER	20A	29			2400	30	20A	ADMIN OFFICE - KITCHEN RECEPTACLES
ADMIN OFFICE - COPIER	20A	31	3000			32	20A	ADMIN OFFICE - REFRIGERATOR
ADMIN OFFICE - STORAGE, COPIER RECEPT	20A	33		2760		34	20A	ADMIN OFFICE - DISHWASHER
ADMIN OFFICE - PRESENTATION HALL RECEPT	20A	35			2760	36	20A	ADMIN OFFICE - WATER HEATER
ADMIN OFFICE - PRESENTATION HALL RECEPT	20A	37	1440			38	20A	ADMIN OFFICE - OFFICE 3 & 4 RECEPTACLES
ADMIN OFFICE - CONFERENCE RECEPTACLES	20A	39		2340		40	20A	ADMIN OFFICE - OFFICE 5 & 6 RECEPTACLES
ADMIN OFFICE - OFFICE 1 & 2 RECEPTACLES	20A	41			1980	42	20A	ADMIN OFFICE - OFFICE C RECEPTACLES
GSM OFFICE #1 RECEPTACLES	20A	43	1800			44	20A	ADMIN CENTER - FURNITURE SYSTEM
GSM OFFICE #2 RECEPTACLES	20A	45		1800		46	20A	ADMIN CENTER - FURNITURE SYSTEM
ADMIN ROOF RECEPTACLES	20A	47			1440	48	20A	ADMIN CENTER - FURNITURE SYSTEM
TOILET EXHAUST FAN (TXF-R-1)	20A	49	1416			50	20A	ADMIN CENTER - FURNITURE SYSTEM
ADMIN OFFICE - VAV BOXES & HEATERS	20A	51		2830		52	20A	ADMIN CENTER - FURNITURE SYSTEM
ADMIN OFFICE - VAV BOXES & HEATERS	20A	53			2830	54	20A	ADMIN CENTER - FURNITURE SYSTEM
ADMIN OFFICE - VAV BOXES & HEATERS	20A	55	2830			56	20A	ADMIN CENTER - FURNITURE SYSTEM
MEZZ 2 - VAV BOXES & HEATERS	20A	57		2330		58	20A	ADMIN CENTER - FURNITURE SYSTEM
MEZZ 2 - VAV BOXES & HEATERS	20A	59			2080	60	20A	ADMIN CENTER - FURNITURE SYSTEM
MEZZ 1 - VAV BOXES	20A	61	2080			62	20A	ADMIN CENTER - FURNITURE SYSTEM
* ELECTRIC RADIANT FLOOR HEAT 'ERFH-1'	20A	63		2780		64	20A	ADMIN CENTER - FURNITURE SYSTEM
* ELECTRIC RADIANT FLOOR HEAT 'ERFH-2'	20A	65			2780	66	20A	ADMIN CENTER - FURNITURE SYSTEM
* ELECTRIC RADIANT FLOOR HEAT 'ERFH-3'	20A	67	3400			68	20A	* ELECTRIC RADIANT FLOOR HEAT 'ERFH-4'
* ELECTRIC RADIANT FLOOR HEAT 'ERFH-5'	20A	69		2375		70	20A	TF-4-1 & TF-4-2
ADMIN CENTER - RECEPTACLES	20A	71			1100	72	20A	BMS PANEL
MEZZ 1 - HAND DRYER	20A	73	3000			74	20A	MEZZ 2 - HAND DRYER
MEZZ 1 - HAND DRYER	20A	75		3000		76	20A	MEZZ 2 - HAND DRYER
MEZZ 2 - BREAKROOM RECEPTACLES	20A	77			1080	78	20A	MEZZ 2 - WOMEN'S RESTROOM RECEPTACLES
SPARE	20A	79	0			80	20A	SPARE
SPARE	20A	81		0		82	20A	SPARE
SPARE	20A	83			0	84	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			29.53	32.82	28.17			
TOTAL CONNECTED LOAD				90.51 KVA		251.2 A		
TOTAL DEMAND LOAD				70.61 KVA		196.0 A		

PANEL DESIGNATION: LP-10A	LOCATION:					REMARKS: * FURNISH AND INSTALL GFCI TYPE CIRCUIT BREAKER		
	SERVICE: 208Y/120 V		3 PHASE, 4 WIRE					
	MAIN BUS RATING:		100 AMPS					
	MAIN CIRCUIT BREAKER:		100 AMPS					
	SCC RATING (SYM.):		10 k A.I.C.					
MOUNTINGS: SURFACE MOUNTED						NEUTRAL BUS: 100% GROUNDING: EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO		
SERVICE TO:	TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
AS/RS CONTROL PANEL	20A	1	1200			2	20A	AS/RS CONTROL PANEL
AS/RS MAINTENANCE RECEPTACLES	20A	3		1500		4	20A	AS/RS CONTROL PANEL
ELECTRICAL ROOM RECEPTACLES	20A	5			2400	6	20A	SWITCHGEAR HEATER
TXF-1-1 & HWUHA	20A	7	1152			8	20A	LOADING DOCK DOOR UNIT HEATERS
HWUHA	20A	9		672		10	20A	* WATER FOUNTAIN
HAND DRYER	20A	11			1625	12	20A	* HOT WATER TEMPERATURE MAINTENANCE
RESTROOM RECEPTACLES	20A	13	485			14		
SPARE	20A	15		1250		16	20A	
SPARE	20A	17			1250	18		WATER HEATER
SPARE	20A	19	0			20	20A	SPARE
SPARE	20A	21		0		22	20A	SPARE
SPARE	20A	23			0	24	20A	SPARE
SPARE	20A	25	0			26	20A	SPARE
SPARE	20A	27		0		28	20A	SPARE
SPARE	20A	29			0	30	20A	SPARE
SPARE	20A	31	0			32	20A	SPARE
SPARE	20A	33		0		34	20A	SPARE
SPARE	20A	35			0	36	20A	SPARE
SPARE	20A	37	0			38	20A	SPARE
SPARE	20A	39		0		40	20A	SPARE
SPARE	20A	41			0	42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			2.84	3.42	5.28			
TOTAL CONNECTED LOAD			11.53 KVA			32.0 A		
TOTAL DEMAND LOAD			11.53 KVA			32.0 A		

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS E-701, E-702, AND E-703 FOR ELECTRICAL ONE-LINE DIAGRAMS.

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MANHATTAN BEER DISTRIBUTORS
20 DUNNIGAN DRIVE
SUFFERN, NEW YORK

KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	N.T.S.

DRAWING TITLE :
**ELECTRICAL PANEL
SCHEDULES SHEET 3 OF 6**

DWG NUMBER :

E-603

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

PANEL DESIGNATION: QC-20-A	LOCATION: 20 DUNNIGAN QUICK CHARGERS					REMARKS: NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO				
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE							
	MAIN BUS RATING:		400 AMPS							
	MAIN CIRCUIT BREAKER:		400 AMPS							
	SCC RATING (SYM):		14 k A.I.C.							
		MOUNTINGS:		SURFACE MOUNTED		GROUNDING:				
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
QUICK CHARGER #1	60A	1	23833				2		QUICK CHARGER #2	
		3		23833			4	60A		
		5			23833		6			
QUICK CHARGER #3	60A	7	23833				8		QUICK CHARGER #4	
		9		23833			10	60A		
		11			23833		12			
QUICK CHARGER #5	60A	13	23833				14		QUICK CHARGER #6	
		15		23833			16	60A		
		17			23833		18			
QUICK CHARGER #7	60A	19	23833				20		QUICK CHARGER #8	
		21		23833			22	60A		
		23			23833		24			
QUICK CHARGER #9	60A	25	23833				26		QUICK CHARGER #10	
		27		23833			28	60A		
		29			23833		30			
QUICK CHARGER #11	60A	31	23833				32		QUICK CHARGER #12	
		33		23833			34	60A		
		35			23833		36			
QUICK CHARGER #13	60A	37	23833				38		QUICK CHARGER #14	
		39		23833			40	60A		
		41			23833		42			
TOTAL CONNECTED LOAD PER PHASE (kVA)			166.83	166.83	166.83					
TOTAL CONNECTED LOAD				500.49 KVA			602.0 A			
TOTAL DEMAND LOAD				250.25 KVA			301.0 A			

PANEL DESIGNATION: QC-20-B	LOCATION: 20 DUNNIGAN QUICK CHARGERS					REMARKS: NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE						
	MAIN BUS RATING: 400 AMPS								
	MAIN CIRCUIT BREAKER: 400 AMPS								
	SCC RATING (SYM): 14 k A.I.C.								
		MOUNTING: SURFACE MOUNTED		GROUNDING:					
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
QUICK CHARGER #15	60A	1	23833				2		QUICK CHARGER #16
		3		23833			4	60A	
		5			23833		6		
QUICK CHARGER #17	60A	7	23833				8		QUICK CHARGER #18
		9		23833			10	60A	
		11			23833		12		
QUICK CHARGER #19	60A	13	23833				14		QUICK CHARGER #20
		15		23833			16	60A	
		17			23833		18		
QUICK CHARGER #21	60A	19	23833				20		QUICK CHARGER #22
		21		23833			22	60A	
		23			23833		24		
QUICK CHARGER #23	60A	25	23833				26		QUICK CHARGER #24
		27		23833			28	60A	
		29			23833		30		
QUICK CHARGER #25	60A	31	23833				32		QUICK CHARGER #26
		33		23833			34	60A	
		35			23833		36		
QUICK CHARGER #27	60A	37	23833				38		QUICK CHARGER #28
		39		23833			40	60A	
		41			23833		42		
TOTAL CONNECTED LOAD PER PHASE (KVA)			166.83	166.83	166.83				
TOTAL CONNECTED LOAD				500.49 KVA			602.0 A		
TOTAL DEMAND LOAD				250.25 KVA			301.0 A		

PANEL DESIGNATION: QC-20-C	LOCATION: 20 DUNNIGAN QUICK CHARGERS					REMARKS: NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO				
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE							
	MAIN BUS RATING: 400 AMPS									
	MAIN CIRCUIT BREAKER: 400 AMPS									
	SCC RATING (SYM): 14 k A.I.C.									
		MOUNTINGS:		SURFACE MOUNTED		GROUNDING:				
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
QUICK CHARGER #29	60A	1	23833				2		QUICK CHARGER #30	
		3		23833			4	60A		
		5			23833		6			
QUICK CHARGER #31	60A	7	23833				8		QUICK CHARGER #32	
		9		23833			10	60A		
		11			23833		12			
QUICK CHARGER #33	60A	13	23833				14		QUICK CHARGER #34	
		15		23833			16	60A		
		17			23833		18			
QUICK CHARGER #35	60A	19	23833				20		QUICK CHARGER #36	
		21		23833			22	60A		
		23			23833		24			
QUICK CHARGER #37	60A	25	23833				26		QUICK CHARGER #38	
		27		23833			28	60A		
		29			23833		30			
QUICK CHARGER #39	60A	31	23833				32		QUICK CHARGER #40	
		33		23833			34	60A		
		35			23833		36			
QUICK CHARGER #41	60A	37	23833				38		QUICK CHARGER #42	
		39		23833			40	60A		
		41			23833		42			
TOTAL CONNECTED LOAD PER PHASE (kVA)			166.83	166.83	166.83					
TOTAL CONNECTED LOAD				500.49 KVA			602.0 A			
TOTAL DEMAND LOAD				250.25 KVA			301.0 A			

PANEL DESIGNATION: QC-20-D	LOCATION: 20 DUNNIGAN QUICK CHARGERS					REMARKS: NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO				
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE							
	MAIN BUS RATING:		400 AMPS							
	MAIN CIRCUIT BREAKER:		400 AMPS							
	SCC RATING (SYM):		14 k A.I.C.							
		MOUNTING:		SURFACE MOUNTED		GROUNDING:				
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
QUICK CHARGER #43	60A	1	23833				2		QUICK CHARGER #44	
		3		23833			4	60A		
		5			23833		6			
QUICK CHARGER #45	60A	7	23833				8		QUICK CHARGER #46	
		9		23833			10	60A		
		11			23833		12			
QUICK CHARGER #47	60A	13	23833				14		QUICK CHARGER #48	
		15		23833			16	60A		
		17			23833		18			
QUICK CHARGER #49	60A	19	23833				20		QUICK CHARGER #50	
		21		23833			22	60A		
		23			23833		24			
QUICK CHARGER #51	60A	25	23833				26		QUICK CHARGER #52	
		27		23833			28	60A		
		29			23833		30			
QUICK CHARGER #53	60A	31	23833				32		QUICK CHARGER #54	
		33		23833			34	60A		
		35			23833		36			
QUICK CHARGER #55	60A	37	11917				38	20A	SPARE	
		39		11917			40	20A	SPARE	
		41			11917		42	20A	SPARE	
TOTAL CONNECTED LOAD PER PHASE (kVA)			154.91	154.91	154.91					
TOTAL CONNECTED LOAD				464.74 KVA			559.0 A			
TOTAL DEMAND LOAD				232.37 KVA			279.5 A			

PANEL DESIGNATION: PP-20A	LOCATION: 20 DUNNIGAN					REMARKS: NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE						
	MAIN BUS RATING:		400 AMPS						
	MAIN CIRCUIT BREAKER:		400 AMPS						
	SCC RATING (SYM):		22 k.A.I.C.						
		MOUNTING:		SURFACE MOUNTED			GROUNDING:		
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
LOADING DOCK DOORS (T65 - T68)	30A	1	10600				2		LOADING DOCK DOORS (T77 - T80)
		3		10600			4	30A	
		5			10600		6		
LOADING DOCK DOORS (T69 - T72)	30A	7	10600				8		LOADING DOCK DOORS (T81 - T84)
		9		10600			10	30A	
		11			10600		12		
LOADING DOCK DOORS (T73 - T76)	30A	13	8937				14		HYDRAULIC RESTRAINT SYSTEMS (DOORS T65 - T70)
		16		8937			16	20A	
		17			8937		18		
LOADING DOCK DOORS (T85 & T01 - T03)	30A	19	8937				20		HYDRAULIC RESTRAINT SYSTEMS (DOORS T71 - T76)
		21		8937			22	20A	
		23			8937		24		
SPRINKLER RISER CLOSET 118 LIGHTING	20A	25	3664				26		HYDRAULIC RESTRAINT SYSTEMS (DOORS T77 - T82)
SPARE	20A	27		3637			28	20A	
SPARE	20A	29			3637	30			
SPARE	20A	31	3637				32		HYDRAULIC RESTRAINT SYSTEMS (DOORS T83 - T85 & T-01 - T03)
SPARE	20A	33		3637			34	20A	
SPARE	20A	35			3637	36			
SPARE	20A	37	0				38	20A	SPARE
SPARE	20A	39		0			40	20A	SPARE
SPARE	20A	41			0		42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (kVA)				46.38	46.35	46.35			
TOTAL CONNECTED LOAD				139.08 KVA			167.3 A		
TOTAL DEMAND LOAD				143.06 KVA			172.1 A		

PANEL DESIGNATION: PP-20C	LOCATION: 20 DUNNINGAN					REMARKS:			
	SERVICE:	480Y/277 V	3 PHASE, 4 WIRE						
	MAIN BUS RATING:		400 AMPS			NEUTRAL BUS: 100% GROUNDING: EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
	MAIN CIRCUIT BREAKER:		400 AMPS						
	SCC RATING (SYM.):		22 k A.I.C.						
MOUNTING:		SURFACE MOUNTED							
SERVICE TO:	TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
AIR CURTAINS FOR DOORS (T65 & T66)	20A	1	8646				2	20A	AIR CURTAINS FOR DOORS (T67 & T68)
		3		8646			4		
		5			8646		6		
AIR CURTAINS FOR DOORS (T69 & T70)	20A	7	8646				8	20A	AIR CURTAINS FOR DOORS (T71 & T72)
		9		8646			10		
		11			8646		12		
AIR CURTAINS FOR DOORS (T73 & T74)	20A	13	8646				14	20A	AIR CURTAIN FOR DOOR (T75 & T76)
		15		8646			16		
		17			8646		18		
AIR CURTAINS FOR DOORS (T77 & T78)	20A	19	8646				20	20A	AIR CURTAIN FOR DOOR (T79 & T80)
		21		8646			22		
		23			8646		24		
AIR CURTAINS FOR DOORS (T81 & T82)	20A	25	8646				26	20A	AIR CURTAIN FOR DOOR (T83 & T84)
		27		8646			28		
		29			8646		30		
AIR CURTAINS FOR DOORS (T85 & T01)	20A	31	8646				32	20A	AIR CURTAIN FOR DOOR (T02 & T03)
		33		8646			34		
		35			8646		36		
AIR CURTAINS FOR DOORS (T04 & T05)	20A	37	4323				38	20A	SPARE
		39		4323			40	20A	SPARE
		41			4323		42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)		56.20	56.20	56.20					
TOTAL CONNECTED LOAD		168.60 KVA				202.8 A			
TOTAL DEMAND LOAD		171.85 KVA				206.7 A			

PANEL DESIGNATION: PP-20D	LOCATION: 20 DUNNIGAN					REMARKS:				
	SERVICE:	480Y/277 V	3 PHASE, 4 WIRE							
	MAIN BUS RATING:	400 AMPS			NEUTRAL BUS: 100% GROUNDING: EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO					
	MAIN CIRCUIT BREAKER:	400 AMPS								
	SCC RATING (SYM.):	22 k A.I.C.								
		MOUNTING: SURFACE MOUNTED								
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
AIR CURTAINS FOR DOORS (T06 & T07)		20A	1	8646				2	20A	AIR CURTAINS FOR DOORS (T08 & T09)
			3		8646			4		
			5				8646	6		
AIR CURTAINS FOR DOORS (T10 & T11)		20A	7	8646				8	20A	AIR CURTAINS FOR DOORS (T12 & T13)
			9		8646			10		
			11				8646	12		
AIR CURTAINS FOR DOORS (T14 & T15)		20A	13	8646				14	20A	AIR CURTAIN FOR DOOR (T16 & T17)
			15		8646			16		
			17				8646	18		
AIR CURTAINS FOR DOORS (T18 & T19)		20A	19	8646				20	20A	AIR CURTAIN FOR DOOR (T20 & T21)
			21		8646			22		
			23				8646	24		
AIR CURTAINS FOR DOORS (T22 & T23)		20A	25	8646				26	20A	AIR CURTAIN FOR DOOR (T24 & T25)
			27		8646			28		
			29				8646	30		
AIR CURTAINS FOR DOORS (T26 & T27)		20A	31	8646				32	20A	AIR CURTAIN FOR DOOR (T28 & T29)
			33		8646			34		
			35				8646	36		
AIR CURTAINS FOR DOORS (T30)		20A	37	4323				38	20A	SPARE
			39		4323			40		SPARE
			41				4323	42		20A
TOTAL CONNECTED LOAD PER PHASE (KVA)			56.20	56.20	56.20					
TOTAL CONNECTED LOAD					168.60 KVA		202.8 A			
TOTAL DEMAND LOAD					171.85 KVA		206.7 A			

PANEL DESIGNATION: EM-LS-H	LOCATION: EMERGENCY ELECTRICAL ROOM					REMARKS:			
	SERVICE:	480Y/277 V	3 PHASE, 4 WIRE						
	MAIN BUS RATING:	225 AMPS			NEUTRAL BUS: 100%	EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
	MAIN CIRCUIT BREAKER:	225 AMPS							
	SCC RATING (SYM.):	65 k A.I.C.							
		MOUNTING: SURFACE MOUNTED			GROUNDING:				
SERVICE TO:	TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
PANELBOARD 'EM-LP-A'	60A	1	6246				2		PANELBOARD 'EM-LS-L' VIA XFMR T-EM-LS'
		3		5251			4	60A	
		5			2596	6			
PANELBOARD 'EM-LP-B'	60A	7	1867				8	20A	SPARE
		9		1867			10	20A	SPARE
		11			1840		12	20A	SPARE
PANELBOARD 'EM-LP-C'	60A	13	1840				14	20A	SPARE
		15			1718		16	20A	SPARE
		17				1745	18	20A	SPARE
SPARE	20A	19	0				20	20A	SPARE
SPARE	20A	21		0			22	20A	SPARE
SPARE	20A	23			0		24	20A	SPARE
SPARE	20A	25	0				26	20A	SPARE
SPARE	20A	27		0			28	20A	SPARE
SPARE	20A	29			0		30	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			9.95	8.84	6.18				
TOTAL CONNECTED LOAD			24.97 KVA			30.0 A			
TOTAL DEMAND LOAD			29.82 KVA			35.9 A			

PANEL DESIGNATION: EM-LP-A	LOCATION: ADMIN OFFICE ELECTRICAL ROOM					REMARKS: FURNISH AND INSTALL EATON QUIK-SPEC COORDINATION PANELBOARD OR APPROVED EQUAL			
	SERVICE:	480Y/277 V	3 PHASE, 4 WIRE						
	MAIN BUS RATING:	100 AMPS			NEUTRAL BUS:	100% GROUNDING:			
	NON-FUSED MAIN SWITCH:	60 AMPS							
	SCG RATING (SYM.):	18 k A.I.C.			EQUIPMENT GROUND BUS: YES	ISOLATED GROUND BUS: NO			
		MOUNTING: SURFACE MOUNTED							
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
1ST MEZZANINE EMERGENCY LIGHTING		20A	1	241			2	20A	1ST MEZZANINE EMERGENCY LIGHTING
SPARE		20A	3		120		4	20A	PARRIAL WAREHOUSE EMERGENCY LIGHTING
2ND MEZZANINE EMERGENCY LIGHTING		20A	5			226	6	20A	2ND MEZZANINE EMERGENCY LIGHTING
ADMIN OFFICE EMERGENCY LIGHTING		20A	7	1225			8	20A	ADMIN OFFICE EMERGENCY LIGHTING
ADMIN OFFICE EMERGENCY LIGHTING		20A	9		571		10	20A	SPARE
ADMIN OFFICE EMERGENCY LIGHTING		20A	11			443	12	20A	SPARE
SPARE		20A	13	0			14	20A	SPARE
EGRESS STAIR A EMERGENCY LIGHTING		20A	15		860		16	20A	EGRESS STAIR B EMERGENCY LIGHTING
EGRESS STAIR C EMERGENCY LIGHTING		20A	17			747	18	20A	SPARE
SPARE		20A	19	0			20	20A	SPARE
SPARE		20A	21		0		22	20A	SPARE
SPARE		20A	23			0	24	20A	SPARE
SPARE		20A	25	0			26	20A	SPARE
SPARE		20A	27		0		28	20A	SPARE
SPARE		20A	29			0	30	20A	SPARE
SPARE		20A	31	0			32	20A	SPARE
SPARE		20A	33		0		34	20A	SPARE
SPARE		20A	35			0	36	20A	SPARE
SPARE		20A	37	0			38	20A	SPARE
SPARE		20A	39		0		40	20A	SPARE
SPARE		20A	41			0	42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			1.47	1.55	1.42				
TOTAL CONNECTED LOAD				4.43 KVA			5.3 A		
TOTAL DEMAND LOAD				5.54 KVA			6.7 A		

PANEL DESIGNATION: PP-R-1	LOCATION: ADMIN OFFICE ELECTRICAL ROOM					REMARKS:			
	SERVICE:	480Y/277 V	3 PHASE, 4 WIRE						
	MAIN BUS RATING:		225 AMPS			NEUTRAL BUS: 100% GROUNDING: EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
	MAIN CIRCUIT BREAKER:		150 AMPS						
	SCC RATING (SYM.):		18 k A.I.C.						
	MOUNTING:		SURFACE MOUNTED						
SERVICE TO:	TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
HV-R-1	20A	1	5189				2	20A	HV-R-2
		3		5189			4		
		5			5189	6			
HV-R-3	20A	7	5189				8	20A	HV-R-4
		9		5189			10		
		11			5189	12			
HV-R-5	20A	13	5189				14	20A	HV-R-6
		15		5189			16		
		17			5189	18			
HV-R-7	20A	19	5189				20	20A	HV-R-8
		21		5189			22		
		23			5189	24			
HV-R-9	20A	25	5189				26	20A	HV-R-10
		27		5189			28		
		29			5189	30			
HV-R-11	20A	31	5189				32	20A	HV-R-12
		33		5189			34		
		35			5189	36			
DSF-4-1 THROUGH DSF-4-5	20A	37	1700				38	20A	DSF-4-6 THROUGH DSF-4-10
DSF-4-11 THROUGH DSF-4-16	20A	39		2040			40	20A	DSF-4-17 THROUGH DSF-4-22
SPARE	20A	41				0	42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			32.84	33.18	31.14				
TOTAL CONNECTED LOAD			97.15 KVA			116.8 A			
TOTAL DEMAND LOAD			99.09 KVA			119.2 A			

PANEL DESIGNATION: EM-LS-L	LOCATION: EMERGENCY ELECTRICAL ROOM					REMARKS: FURNISH AND INSTALL EATON QUIK-SPEC COORDINATION PANELBOARD OR APPROVED EQUAL		
	SERVICE:	208Y/120 V	3 PHASE, 4 WIRE					
	MAIN BUS RATING:	100 AMPS			NEUTRAL BUS: 100% GROUNDING	EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO		
	MAIN FUSES:	100 AMPS						
	SCC RATING (SYM.):	10 k A.I.C.						
MOUNTING:		SURFACE MOUNTED						
SERVICE TO:	TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
SPRINKLER CABINET COMPRESSOR ROOM	20A	1	3600			2	40A	GENERATOR LOAD CENTER
SPRINKLER CABINET STAIR C	20A	3		3600		4		
SPRINKLER CABINET STAIR A	20A	5			1180	6	20A	GFCI ELEVATOR PIT
SPRINKLER CABINET MEZZ	20A	7	1180			8	20A	GFCI RECEPTACLE FOR ELEV SUMP PUMP
SPARE	20A	9		100		10	20A	ELEVATOR PIT LIGHT
SPARE	20A	11			0	12	20A	SPARE
SPARE	20A	13	0			14	20A	SPARE
SPARE	20A	15		0		16	20A	SPARE
SPARE	20A	17			0	18	20A	SPARE
SPARE	20A	19	0			20	20A	SPARE
SPARE	20A	21		0		22	20A	SPARE
SPARE	20A	23			0	24	20A	SPARE
SPARE	20A	25	0			26	20A	SPARE
SPARE	20A	27		0		28	20A	SPARE
SPARE	20A	29			0	30	20A	SPARE
SPARE	20A	31	0			32	20A	SPARE
SPARE	20A	33		0		34	20A	SPARE
SPARE	20A	35			0	36	20A	SPARE
SPARE	20A	37	0			38	20A	SPARE
SPARE	20A	39		0		40	20A	SPARE
SPARE	20A	41			0	42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			4.78	3.70	1.18			
TOTAL CONNECTED LOAD			9.66 KVA			26.8 A		
TOTAL DEMAND LOAD			10.69 KVA			29.7 A		

PANEL DESIGNATION: PP-R-2	LOCATION: ADMIN OFFICE ELECTRICAL ROOM					REMARKS:				
	SERVICE: 208Y/120 V		3 PHASE, 4 WIRE							
	MAIN BUS RATING:		100 AMPS							
	MAIN CIRCUIT BREAKER:		100 AMPS							
	SCG RATING (SYM.):		10 k A.I.C.							
		MOUNTING:		SURFACE MOUNTED			NEUTRAL BUS: 100%		EQUIPMENT GROUND BUS: YES	
							GROUNDING:		ISOLATED GROUND BUS: NO	
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
DSF-4-23 THROUGH DSF-4-29		20A	1	600			2	20A	DSF-4-30THROUGH DSF-4-36	
			3		600		4	20A		
		DSF-4-37 THROUGH DSF-4-43	20A	5				300		
7	300						8	20A	SPARE	
SPARE		20A	9		0		10	20A	SPARE	
SPARE		20A	11			0	12	20A	SPARE	
SPARE		20A	13	0			14	20A	SPARE	
SPARE		20A	15		0		16	20A	SPARE	
SPARE		20A	17			0	18	20A	SPARE	
SPARE		20A	19	0			20	20A	SPARE	
SPARE		20A	21		0		22	20A	SPARE	
SPARE		20A	23			0	24	20A	SPARE	
SPARE		20A	25	0			26	20A	SPARE	
SPARE		20A	27		0		28	20A	SPARE	
SPARE		20A	29			0	30	20A	SPARE	
SPARE		20A	31	0			32	20A	SPARE	
SPARE		20A	33		0		34	20A	SPARE	
SPARE		20A	35			0	36	20A	SPARE	
SPARE		20A	37	0			38	20A	SPARE	
SPARE		20A	39		0		40	20A	SPARE	
SPARE		20A	41			0	42	20A	SPARE	
TOTAL CONNECTED LOAD PER PHASE (KVA)			0.90	0.60	0.30					
TOTAL CONNECTED LOAD					1.80 KVA			5.0 A		
TOTAL DEMAND LOAD					1.95 KVA			5.4 A		
















PANEL DESIGNATION: LP-20A	LOCATION: 20 DUNNINGAN					REMARKS: NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
	SERVICE: 208Y/120 V		3 PHASE, 4 WIRE						
	MAIN BUS RATING:		100 AMPS						
	MAIN CIRCUIT BREAKER:		60 AMPS						
	SCC RATING (SYM.):		10 k A.I.C.						
	MOUNTING:		SURFACE MOUNTED						
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
HOT WATER UNIT HEATER (1 - 9)		20A	1	1296			2	20A	HOT WATER UNIT HEATER (10 - 18)
HOT WATER UNIT HEATER (19-28)		20A	3		970		4	20A	HOT WATER HEATER & BMS PANEL BMS-1-2
SPARE		20A	5			0	6	20A	SPARE
SPARE		20A	7	0			8	20A	SPARE
SPARE		20A	9		0		10	20A	SPARE
SPARE		20A	11			0	12	20A	SPARE
SPARE		20A	13	0			14	20A	SPARE
SPARE		20A	15		0		16	20A	SPARE
SPARE		20A	17			0	18	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (kVA)				1.30	0.97	0.00			
TOTAL CONNECTED LOAD				2.27 KVA			6.3 A		
TOTAL DEMAND LOAD				2.33 KVA			6.5 A		

PANEL DESIGNATION: LP-A	LOCATION: ADMIN OFFICE ELECTRICAL ROOM					REMARKS: NEUTRAL BUS: 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO				
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE							
	MAIN BUS RATING:		100 AMPS							
	MAIN CIRCUIT BREAKER:		100 AMPS							
	SCC RATING (SYM.):		10 k A.I.C.							
		MOUNTING:		SURFACE MOUNTED			GROUNDING:			
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
PARTIAL WAREHOUSE UNDERSIDE LIGHTING		20A	1	440			2	20A	SPARE	
2ND MEZZANINE PARK DECK WEST LIGHTING		20A	3		530		4	20A	1ST MEZZANINE CORRIDOR LIGHTING	
1ST MEZZANINE OPERATIONS OFFICES LIGHTING		20A	5			190	6	20A	1ST MEZZANINE DELIVERY ROOM LIGHTING	
1ST MEZZANINE CLOSET AND TOILET LIGHTING		20A	7	209			8	20A	1ST MEZZANINE BREAK ROOM LIGHTING	
2ND MEZZANINE LOBBY & VESTIBULE LIGHTING		20A	9		427		10	20A	2ND MEZZANINE LOCKER ROOMS LIGHTING	
2ND MEZZANINE CORRIDOR LIGHTING		20A	11			165	12	20A	2ND MEZZANINE CONFERENCE ROOM LIGHTING	
2ND MEZZANINE MANAGERIAL OFFICE LIGHTING		20A	13	772			14	20A	2ND MEZZANINE PARK DECK WEST LIGHTING	
2ND MEZZANINE PARK DECK EAST LIGHTING		20A	15		709		16	20A	ADMIN OFFICE LIGHTING	
ADMIN OFFICE LIGHTING		20A	17			1285	18	20A	ADMIN OFFICE PRESENTATION ROOM LIGHTING	
ADMIN OFFICE KITCHEN AND TOILET LIGHTING		20A	19	907			20	20A	ADMIN OFFICE LAYOUT LIGHTING	
ADMIN OFFICE ELECTRICAL & IT ROOM LIGHTING		20A	21		575		22	20A	PARKING DECK UNDERSIDE EAST LIGHTING	
PARKING DECK UNDERSIDE EAST LGHTING		20A	23			299	24	20A	SPARE	
SPARE		20A	25	0			26	20A	SPARE	
SPARE		20A	27		0		28	20A	SPARE	
SPARE		20A	29			0	30	20A	SPARE	
SPARE		20A	31	0			32	20A	SPARE	
SPARE		20A	33		0		34	20A	SPARE	
SPARE		20A	35			0	36	20A	SPARE	
SPARE		20A	37	0			38	20A	SPARE	
SPARE		20A	39		0		40	20A	SPARE	
SPARE		20A	41			0	42	20A	SPARE	
TOTAL CONNECTED LOAD PER PHASE (KVA)			2.33	2.24	1.94					
TOTAL CONNECTED LOAD					6.51 KVA			7.8 A		
TOTAL DEMAND LOAD					8.14 KVA			9.8 A		

PANEL DESIGNATION: PPH-10C	LOCATION: 10 DUNNINGAN - NORTH SIDE					REMARKS: NEUTRAL BUS 100% EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO						
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE									
	MAIN BUS RATING: 225 AMPS											
	MAIN CIRCUIT BREAKER: 225 AMPS											
	SCC RATING (SYM.): 18 x A.I.C.											
		MOUNTING: SURFACE MOUNTED				GROUNDING:						
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:			
NORTH ASRS LIGHTING		20A	1	1799			2	20A	NORTH ASRS LIGHTING			
NORTH ASRS LIGHTING		20A	3		1840		4	20A	NORTH ASRS LIGHTING			
NORTH ASRS LIGHTING		20A	5			2070	6	20A	NORTH ASRS LIGHTING			
NORTH ASRS LIGHTING		20A	7	920			8	20A	SPARE			
NORTH ASRS LIGHTING		20A	9		920		10	20A	SPARE			
10 DUNNINGAN NORTH SITE LIGHTING		20A	11			480	12	20A	SPARE			
10 DUNNINGAN NORTH SITE LIGHTING		20A	13	330			14	20A	SPARE			
SPARE		20A	15		0		16	20A	SPARE			
SPARE		20A	17			0	18	20A	SPARE			
SPARE		20A	19	0			20	20A	SPARE			
SPARE		20A	21		0		22	20A	SPARE			
SPARE		20A	23			0	24	20A	SPARE			
SPARE		20A	25	0			26	20A	SPARE			
SPARE		20A	27		0		28	20A	SPARE			
SPARE		20A	29			0	30	20A	SPARE			
SPARE		20A	31	0			32	20A	SPARE			
SPARE		20A	33		0		34	20A	SPARE			
SPARE		20A	35			0	36	20A	SPARE			
SPARE		20A	37	0			38	20A	SPARE			
SPARE		20A	39		0		40	20A	SPARE			
SPARE		20A	41			0	42	20A	SPARE			
TOTAL CONNECTED LOAD PER PHASE (kVA)				3.05	2.76	2.55						
TOTAL CONNECTED LOAD				8.36 kVA						10.1 A		
MINIMUM FEEDER SIZE PER ARTICLE 220				10.45 kVA						12.6 A		

<div>PANEL DESIGNATION:</div> <div>EM-LP-B</div>	LOCATION: EMERGENCY ELECTRICAL ROOM					REMARKS:				
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE							
	MAIN BUS RATING: 100 AMPS									
	MAIN CIRCUIT BREAKER: 60 AMPS					NEUTRAL BUS 100%				
	SCC RATING (SYM.): 18 k A.I.C.					GROUNDING EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO				
	MOUNTING: SURFACE MOUNTED									
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
NORTH ASRS EMERGENCY LIGHTING		20A	1	947			2	20A	SPARE	
NORTH ASRS EMERGENCY LIGHTING		20A	3		947		4	20A	SPARE	
NORTH ASRS EMERGENCY LIGHTING		20A	5			920	6	20A	SPARE	
NORTH ASRS EMERGENCY LIGHTING		20A	7	920			8	20A	SPARE	
NORTH ASRS EMERGENCY LIGHTING		20A	9		920		10	20A	SPARE	
SOUTH ASRS EMERGENCY LIGHTING		20A	11			920	12	20A	SPARE	
SPARE		20A	13	0			14	20A	SPARE	
SPARE		20A	15		0		16	20A	SPARE	
SPARE		20A	17			0	18	20A	SPARE	
SPARE		20A	19	0			20	20A	SPARE	
SPARE		20A	21		0		22	20A	SPARE	
SPARE		20A	23			0	24	20A	SPARE	
SPARE		20A	25	0			26	20A	SPARE	
SPARE		20A	27		0		28	20A	SPARE	
SPARE		20A	29			0	30	20A	SPARE	
TOTAL CONNECTED LOAD PER PHASE (kVA)		1.87	1.87	1.84						
TOTAL CONNECTED LOAD					5.57 KVA			6.7 A		
MINIMUM FEEDER SIZE PER ARTICLE 220					6.97 KVA			8.4 A		

LIGHTING CONTROL LEGEND:

	CEILING MOUNTED OCCUPANCY SENSOR
	EMERGENCY LIGHTING LOAD CONTROLLER
	SINGLE INTERFACE ROOM LIGHTING CONTROLLER
	ON/OFF DIGITAL SWITCH STATION
	LIGHTING CONTROLS NETWORK ADAPTER
	HIGH BAY OCCUPANCY SENSOR
	AUTOMATIC LOAD RELAY
	WALL SWITCH SENSOR
	LOW VOLTAGE INFRARED & ULTRASONIC CEILING SENSOR
	ON/RAISE/LOWER/OFF DIGITAL SWITCH STATION
	POWER PACK
	DUAL INTERFACE ROOM LIGHTING CONTROLLER
	16 RELAY LIGHTING CONTROL PANEL
	DAYLIGHT SENSOR ONDOOR
	RADIO MODULE

LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	VOLTAGE	MAX WATTAGE
8VT	RAIL CANOPY LIGHTS	277V	117W
A2	PARKING DECK LED LIGHT	277V	23W
A	HIGH BAY LED	277V	230W
AN	HIGH BAY LED	277V	230W
AN-EM	SAME AS ABOVE, BUT BRANCH CIRCUIT IS FED FROM EMERGENCY POWER SOURCE		
AW	HIGH BAY LED	277V	230W
AW-EM	SAME AS ABOVE, BUT BRANCH CIRCUIT IS FED FROM EMERGENCY POWER SOURCE		
B4	4' LED MULTIPURPOSE LINEAR	277V	27W
B4-EM	SAME AS ABOVE, BUT BRANCH CIRCUIT IS FED FROM EMERGENCY POWER SOURCE		
C8	8' LED MULTIPURPOSE LINEAR	277V	40W
C8-EM	SAME AS ABOVE, BUT BRANCH CIRCUIT IS FED FROM EMERGENCY POWER SOURCE		
LF1	3" LED DOWNLIGHT	277V	12W
LF1-EM	SAME AS ABOVE, BUT BRANCH CIRCUIT IS FED FROM EMERGENCY POWER SOURCE		
LF2	2'x2' LED FLAT PANEL	277V	19W
LF2-EM	SAME AS ABOVE, BUT BRANCH CIRCUIT IS FED FROM EMERGENCY POWER SOURCE		
P II	AREA / SITE LIGHT	277V	165W
P III	AREA / SITE LIGHT	277V	165W
P IV	AREA / SITE LIGHT	277V	165W
P V	AREA / SITE LIGHT	277V	165W
RB	REVERIE LOW BAY LIGHT	277V	165W
RB-EM	SAME AS ABOVE, BUT BRANCH CIRCUIT IS FED FROM EMERGENCY POWER SOURCE		
S4	LED STAIRWELL LIGHT	277V	41W
S4-EM	SAME AS ABOVE, BUT BRANCH CIRCUIT IS FED FROM EMERGENCY POWER SOURCE		
W	EXTERIOR LED WALLPACK	277V	30W
WP3	EXTERIOR LED WALLPACK	277V	137W
WP4	EXTERIOR LED WALLPACK	277V	137W
G1	PARKING GARAGE SURFACE MOUNTED CEILING FIXTURE	277V	49W
G2	PARKING GARAGE SURFACE MOUNTED CEILING FIXTURE	277V	94W

NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR MANUFACTURER MAKE AND MODEL, MOUNTING DETAILS, TRIM STYLE, AND OPTIONAL ACCESSORIES.

NOTES:

- REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
- REFER TO ARCHITECTURAL DRAWINGS FOR LIGHTING FIXTURE LOCATIONS AND SPECIFICATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR LIGHTING CONTROL DETAILS AND SPECIFICATIONS.

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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	AS NOTED

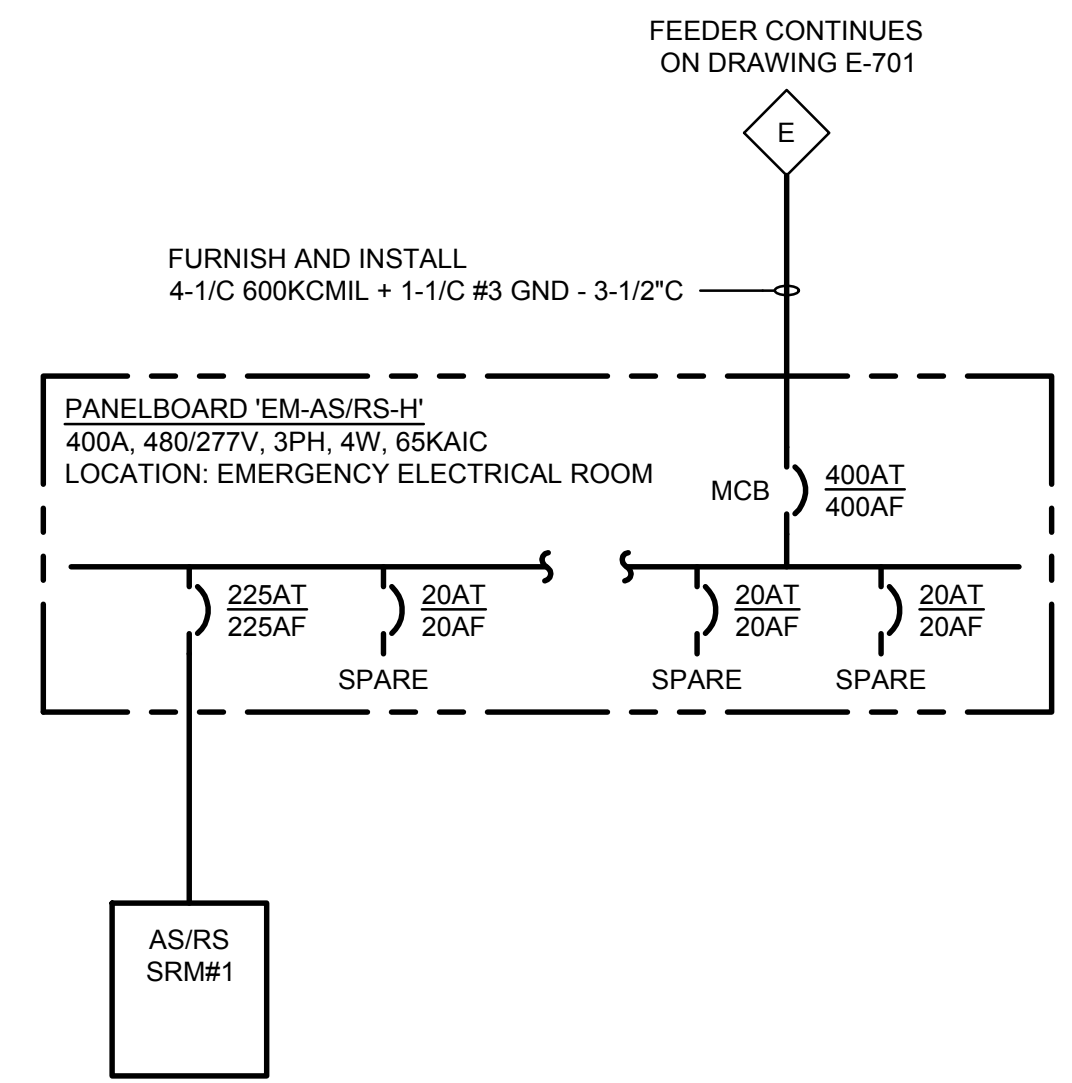
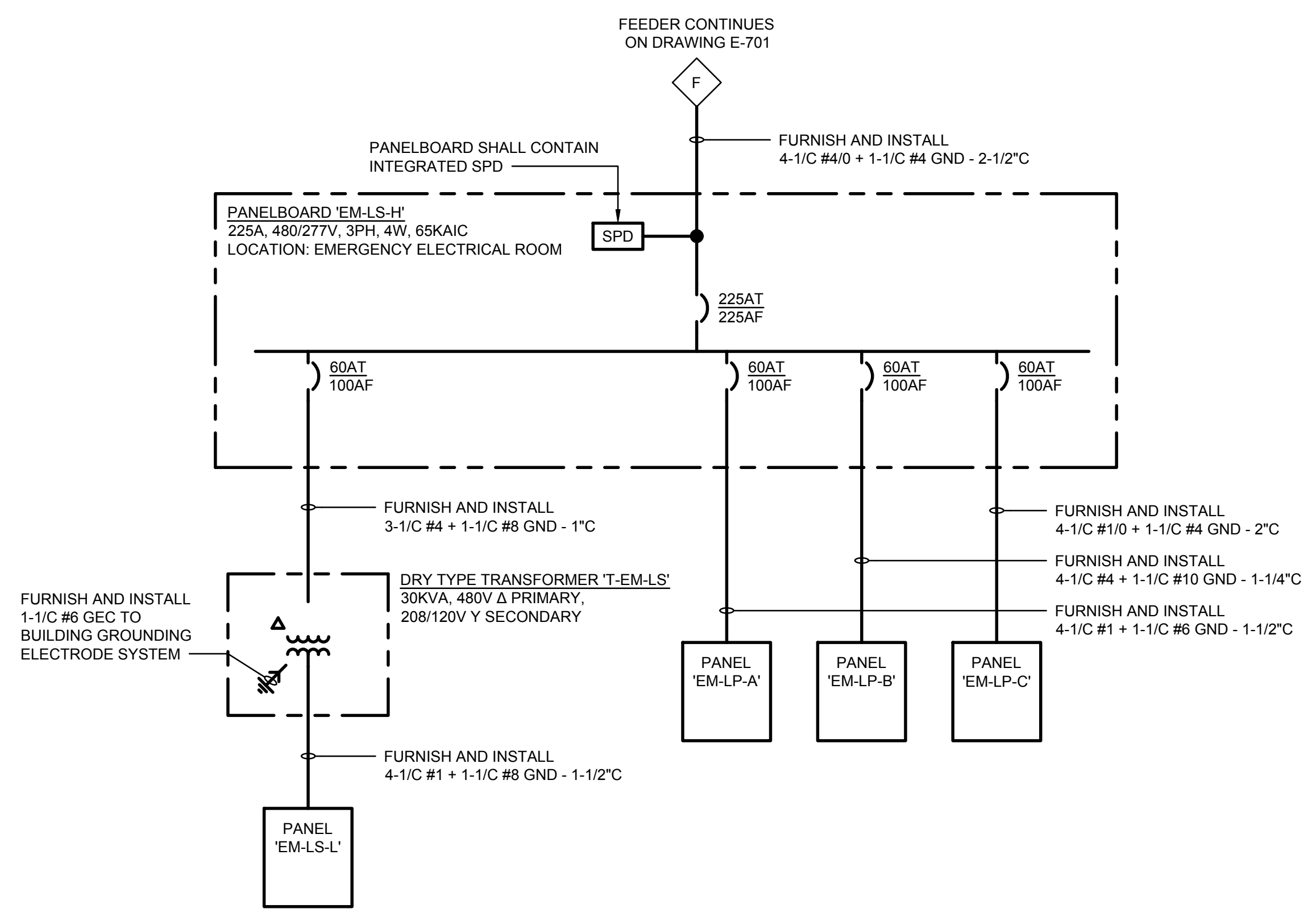
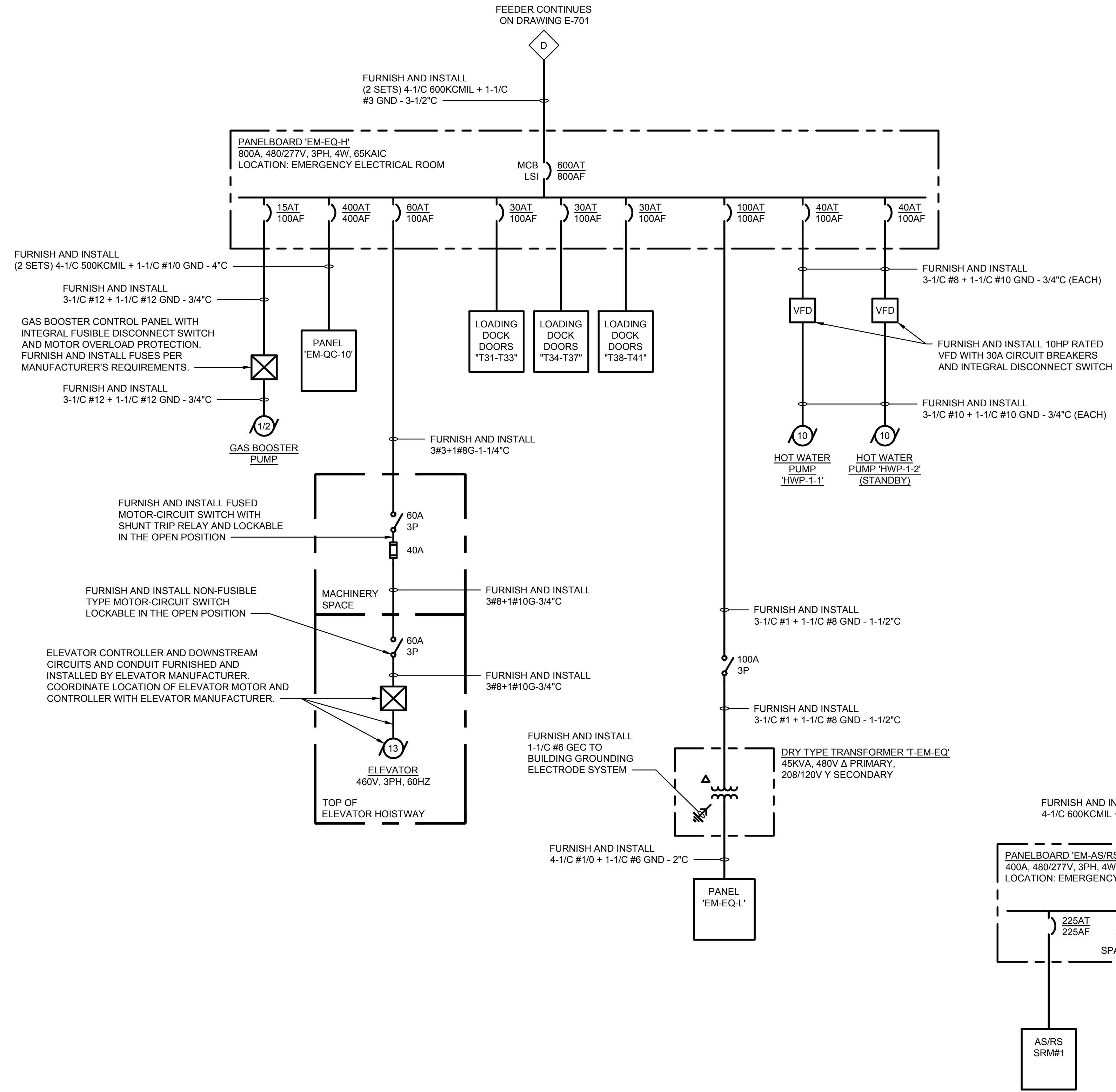
DRAWING TITLE :
LIGHTING FIXTURE SCHEDULE
& LIGHTING CONTROLS
LEGEND

DWG NUMBER :

E-607

NOTES:

1. REFER TO CONTRACT DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.



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APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	N.T.S.

DRAWING TITLE :
**ELECTRICAL ONE-LINE
DIAGRAM - SHEET 3 OF 3**

DWG NUMBER :

E-703

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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[illegible]

ORANGE & ROCKLAND'S PRIMARY METERING SWITCHGEAR
DETAILED SPECIFICATION
MANUAL OUTDOOR SWITCHGEAR

1. GENERAL

1.1 THE METAL-ENCLOSED SWITCHGEAR IS BASED OFF THE S&C ELECTRICAL METAL ENCLOSED SWITCHGEAR DESIGN CONFORMING TO ORANGE & ROCKLAND'S PRIMARY METERING SWITCHGEAR SPECIFICATION DATED 10/1/2004

1.2 DRAWINGS

(1) THE METAL-ENCLOSED SWITCHGEAR ASSEMBLY SHALL BE IN ACCORDANCE WITH THE PLANS AND DRAWINGS.

(2) THE MANUFACTURER SHALL FURNISH, WITH EACH METAL-ENCLOSED SWITCHGEAR ASSEMBLY, A SET OF DRAWINGS COMPLETE WITH A BILL OF MATERIAL AND SHOWING: TYPICAL FRONT VIEWS AND OPEN SIDE VIEWS FOR EACH BAY AS WELL AS TYPICAL COMPONENTS, THEIR POSITIONS, AND AVAILABLE SPACE FOR CABLE TERMINATION; AN ANCHOR BOLT PLAN WITH DIMENSIONS; A ONE-LINE DIAGRAM; AND APPROPRIATE WIRING DIAGRAMS.

(3) THE MANUFACTURER SHALL FURNISH A COMPREHENSIVE INSTRUCTION MANUAL COVERING INSTALLATION OF THE SWITCHGEAR ASSEMBLY AND OPERATION OF THE VARIOUS COMPONENTS.

1.3 THE METAL-ENCLOSED SWITCHGEAR ASSEMBLY SHALL CONSIST OF OUTDOOR SELF-SUPPORTING BAYS, CONTAINING INTERRUPTER SWITCHES AND POWER FUSES IN FEEDER BAYS WITH THE NECESSARY ACCESSORY COMPONENTS, ALL COMPLETED BY FACTORY-ASSEMBLED AND OPERATIONALLY CHECKED

(1) SWITCHGEAR SHALL BE IN CONFORMANCE WITH ORANGE AND ROCKLAND REQUIREMENTS

(2) SWITCHGEAR SHALL BE PROVIDED WITH MOUNTING PROVISIONS FOR ORANGE & ROCKLAND SUPPLIED POTENTIAL AND CURRENT TRANSFORMERS.

(3) BAY 1 (ENTRANCE BAY) IS ORANGE AND ROCKLAND'S METERING BAY.

(4) BAY 2 SHALL BE BUS TAP BAY TO FEED FIRE PUMP TRANSFORMER

(5) BAY 3 THRU BAY 6 SHALL BE OUTGOING FUSED FEEDER BAYS CONTAINING S&C SMU-20 FUSES

(6) INCOMING AND OUTGOING TERMINAL PAD HEIGHTS SHALL BE AT LEAST 24" FROM THE FLOOR

(7) CONTROL POWER FOR HEATERS TO BE SUPPLIED FROM AN EXTERNAL SOURCE SUPPLIED BY THE CUSTOMER

(8) SWITCHGEAR SHALL BE SUPPLIED WITH ANSI CATEGORY A FEATURES

1.4 RATINGS

(1) THE RATINGS FOR THE INTEGRATED SWITCHGEAR ASSEMBLY SHALL BE AS DESIGNATED BELOW.

KV, NOMINAL	13.8
KV, MAXIMUM	15.5
KV, BIL	95
MAIN BUS CONTINUOUS, AMPERES	600
SHORT-CIRCUIT RATINGS	
AMPERES, RMS SYMMETRICAL	14,000
MVA THREE-PHASE SYMMETRICAL AT RATED NOMINAL VOLTAGE	335

THE MOMENTARY AND DUTY-CYCLE FAULT-CLOSING RATINGS OF SWITCHES, MOMENTARY RATING OF BUS, AND INTERRUPTING RATINGS OF FUSES SHALL EQUAL OR EXCEED THE SHORTCIRCUIT RATINGS OF THE METAL-ENCLOSED SWITCHGEAR.

1.5 CERTIFICATION OF RATINGS

(1) THE MANUFACTURER OF THE METAL-ENCLOSED SWITCHGEAR SHALL BE COMPLETELY AND SOLELY RESPONSIBLE FOR THE PERFORMANCE OF THE BASIC SWITCH AND FUSE COMPONENTS AS WELL AS THE COMPLETE INTEGRATED ASSEMBLY AS RATED.

(2) THE MANUFACTURER SHALL FURNISH, UPON REQUEST, CERTIFICATION OF RATINGS OF THE BASIC SWITCH AND FUSE COMPONENTS AND/OR THE INTEGRATED METAL-ENCLOSED SWITCHGEAR ASSEMBLY CONSISTING OF THE SWITCH AND FUSE COMPONENTS IN COMBINATION WITH THE ENCLOSURE(S).

(3) THE INTEGRATED SWITCHGEAR ASSEMBLY SHALL HAVE A BIL RATING ESTABLISHED BY TEST ON SWITCHGEAR OF THE TYPE AND KIND TO BE FURNISHED UNDER THIS SPECIFICATION. CERTIFIED TEST ABSTRACTS ESTABLISHING SUCH RATINGS SHALL BE FURNISHED UPON REQUEST.

1.6 COMPLIANCE WITH STANDARDS & CODES

THE METAL-ENCLOSED SWITCHGEAR SHALL CONFORM TO OR EXCEED THE APPLICABLE REQUIREMENTS OF THE FOLLOWING STANDARDS AND CODES:

(1) ANSI C37.20.3 (METAL-ENCLOSED INTERRUPTER SWITCHGEAR).

(2) THE APPLICABLE PORTIONS OF ARTICLE 490 IN THE NATIONAL ELECTRICAL CODE, INCLUDING ARTICLE 490.21(E), WHICH SPECIFIES THAT THE INTERRUPTER SWITCHES IN COMBINATION WITH POWER FUSES SHALL SAFELY WITHSTAND THE EFFECTS OF CLOSING, CARRYING, AND INTERRUPTING ALL POSSIBLE CURRENTS UP TO THE ASSIGNED MAXIMUM SHORT-CIRCUIT RATING.

(3) THE SWITCHGEAR MANUFACTURER SHALL PROVIDE EVIDENCE THAT HAVE BEEN APPROVED BY UNDERWRITERS LABORATORIES, INC., TO BE IN COMPLIANCE WITH THE CATEGORY A ENCLOSURE TEST REQUIREMENTS IN ACCORDANCE WITH CONFORMANCE STANDARD ANSI C37.57. CATEGORY A ENCLOSURES ARE INTENDED TO PROVIDE A DEGREE OF PROTECTION AGAINST CONTACT WITH ENCLOSED EQUIPMENT IN GROUND LEVEL INSTALLATIONS SUBJECT TO DELIBERATE UNAUTHORIZED ACTS BY MEMBERS OF THE UNSUPERVISED GENERAL PUBLIC. CATEGORY A ENCLOSURES REQUIRE THE ADDITION OF PADLOCKABLE COVERS FOR WINDOWS AND ACCESSORIES SUCH AS AMMETERS, VOLTMETERS, KILOWATT-HOUR METERS, ETC.

2. CONSTRUCTION

2.1 TO ENSURE A COMPLETELY COORDINATED DESIGN, THE METAL-ENCLOSED SWITCHGEAR SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MINIMUM CONSTRUCTION SPECIFICATIONS OF THE FUSE AND/OR SWITCH MANUFACTURER TO PROVIDE ADEQUATE ELECTRICAL CLEARANCES AND ADEQUATE SPACE FOR FUSE HANDLING.

2.2 ENCLOSURE CONSTRUCTION

(1) IN ESTABLISHING THE REQUIREMENTS FOR THE ENCLOSURE DESIGN, CONSIDERATION SHALL BE GIVEN TO ALL RELEVANT FACTORS SUCH AS CONTROLLED ACCESS; TAMPER RESISTANCE; CORROSION RESISTANCE; PROTECTION FROM AGGRESSIVE AGENTS, INSECTS, AND WEEDS; AND THE POSSIBILITY OF ARCING FAULTS WITHIN THE ENCLOSURE.

(2) THE ENCLOSURE OF EACH BAY SHALL BE UNITIZED MONOCOQUE CONSTRUCTION TO MAXIMIZE STRENGTH, MINIMIZE WEIGHT, AND INHIBIT CORROSION.

(3) THE MATERIAL FOR ALL EXTERNAL SIDES OF THE ENCLOSURE AND THE ROOF SHALL BE 11-GAUGE HOT-ROLLED, PICKLED AND OILED STEEL SHEET.

(4) EACH BAY CONTAINING HIGH-VOLTAGE COMPONENTS SHALL BE A COMPLETE UNIT IN ITSELF, WITH FULL SIDE SHEETS RESULTING IN DOUBLE-WALL CONSTRUCTION BETWEEN BAYS, TO GUARD AGAINST UNAUTHORIZED OR INADVERTENT ENTRY, SIDE AND REAR SHEETS AND THE TOP SHALL NOT BE EXTERNALLY BOLTED.

(5) THE BASE SHALL BE A CONTINUOUS STEEL CHANNEL OF A THICKER GAUGE MATERIAL THAN USED FOR THE ENCLOSURE AND SHALL EXTEND COMPLETELY AROUND ALL FOUR SIDES OF EACH BAY.

(6) ACCESS TO THE INTERIOR OF THE ENCLOSURE SHALL BE FROM THE FRONT ONLY, ALLOWING PLACEMENT OF THE METAL-ENCLOSED SWITCHGEAR ASSEMBLY TIGHT AGAINST A WALL OR BACK-TO-BACK TO MINIMIZE FLOOR-SPACE REQUIREMENTS.

(7) TO GUARD AGAINST UNAUTHORIZED OR INADVERTENT ENTRY, THERE SHALL BE NO ACCESS TO HIGH VOLTAGE THROUGH SIDE OR REAR SHEETS OF THE METAL-ENCLOSED SWITCHGEAR ASSEMBLY, AND NO ACCESS TO HIGH VOLTAGE BY MEANS OF EXTERNALLY REMOVABLE PANELS.

(8) TO GUARD AGAINST CORROSION, ALL HARDWARE (INCLUDING DOOR FITTINGS, FASTENERS, ETC.), ALL OPERATING-MECHANISM PARTS, AND OTHER PARTS SUBJECT TO ABRASIVE ACTION FROM MECHANICAL MOTION SHALL BE OF EITHER NONFERROUS MATERIALS, OR GALVANIZED OR ZINC-NICKEL-PLATED MATERIALS. CADMIUM-PLATED FERROUS PARTS SHALL NOT BE USED.

(9) EXTERNALLY ACCESSIBLE HARDWARE SHALL NOT BE USED FOR SUPPORT OF HIGH-VOLTAGE COMPONENTS OR SWITCH-OPERATING MECHANISMS WITHIN THE SWITCHGEAR.

2.3 DOOR CONSTRUCTION

(1) DOORS SHALL BE CONSTRUCTED OF 11_GAUGE HOT-ROLLED, PICKLED AND OILED STEEL SHEET.

(2) DOORS SHALL HAVE 90 DEGREE FLANGES AND SHALL OVERLAP WITH THE DOOR OPENINGS. FOR STRENGTH AND RIGIDITY, AND TO MINIMIZE EXPOSURE, THE DOOR FLANGES SHALL BE WELDED AT THE CORNERS AND SHALL BE FORMED (AT THE TOP AND BOTH SIDES AS A MINIMUM) WITH A DOUBLE BEND SO THAT THE SHEARED-EDGE FLANGES AT THE TOP AND BOTH SIDES FOLD BACK PARALLEL TO THE INSIDE OF THE DOOR.

(3) EACH DOOR SHALL BE EQUIPPED WITH A DOOR HANDLE. THE DOOR HANDLE SHALL BE PADLOCKABLE AND, ON OUTDOOR GEAR, SHALL INCORPORATE A HOOD TO PROTECT THE PADLOCK SHACKLE FROM TAMPERING.

(4) IN CONSIDERATION OF CONTROLLED ACCESS, TAMPER RESISTANCE, AND ARCING FAULTS, EACH DOOR OVER 40 INCHES IN HEIGHT SHALL HAVE A MINIMUM OF THREE CONCEALED, INTERLOCKING, HIGH-STRENGTH LATCHES. DOORS 40 INCHES IN HEIGHT OR LESS SHALL HAVE A MINIMUM OF TWO SUCH LATCHES.

(5) DOORS PROVIDING ACCESS TO INTERRUPTER SWITCHES OR INTERRUPTER SWITCHES WITH POWER FUSES SHALL BE PROVIDED WITH A WIDE-VIEW WINDOW, CONSTRUCTED OF AN IMPACT-RESISTANT MATERIAL, TO FACILITATE CHECKING OF SWITCH POSITION WITHOUT OPENING THE DOOR.

(6) DOORS PROVIDING ACCESS TO FUSES OR FUSED VOLTAGE TRANSFORMERS SHALL HAVE PROVISIONS TO STORE SPARE FUSE UNITS, REFILL UNITS, OR INTERRUPTING MODULES.

2.4 ACCESS CONTROL

ACCESS CONTROL SHALL BE PROVIDED AS FOLLOWS:

(1) DOORS PROVIDING ACCESS TO INTERRUPTER SWITCHES WITH FUSES SHALL BE MECHANICALLY INTERLOCKED TO GUARD AGAINST:

(a) OPENING THE DOOR IF THE INTERRUPTER SWITCH ON THE SOURCE SIDE OF THE FUSE IS CLOSED, AND

(b) CLOSING THE INTERRUPTER SWITCH IF THE DOOR IS OPEN.

(2) DOORS PROVIDING ACCESS TO INTERRUPTER SWITCHES ONLY, WHICH ARE OPERATED BY STORED-ENERGY TYPE SWITCH OPERATORS, SHALL BE MECHANICALLY OR KEY INTERLOCKED TO GUARD AGAINST OPERATING THE INTERRUPTER SWITCH IF THE DOOR IS OPEN.

(3) DOORS AND HINGED-BOLTED PANELS PROVIDING ACCESS TO HIGH-VOLTAGE SHEATHS SHALL BE PROVIDED WITH FLUSH-MOUNTED KEY-OPERATED SNAPLOCKS AND SHALL HAVE PROVISIONS FOR PADLOCKING.

2.5 INTERNAL PROTECTIVE SCREENS

(1) IN ADDITION TO THE ENCLOSURE DOOR, EACH BAY OR COMPARTMENT THEREOF CONTAINING HIGH-VOLTAGE COMPONENTS SHALL BE PROVIDED WITH AN INTERNAL PROTECTIVE SCREEN, BOLTED CLOSED, TO GUARD AGAINST INADVERTENT ENTRY TO BAYS CONTAINING THESE COMPONENTS WHEN THE ENCLOSURE DOOR IS OPEN.

(2) EACH BAY CONTAINING A CONTROL-POWER TRANSFORMER CAPABLE OF 5 KVA OR GREATER OUTPUT SHALL BE PROVIDED WITH AN INTERNAL PROTECTIVE SCREEN, BOLTED CLOSED, TO

2.6 INSULATORS

THE INTERRUPTER-SWITCH AND FUSE-MOUNTING INSULATORS, MAIN-BUS SUPPORT INSULATORS, INSULATED OPERATING SHAFTS, AND (IF APPLICABLE) PUSH RODS SHALL BE OF A CYCLOALIPHATIC EPOXY RESIN SYSTEM WITH CHARACTERISTICS AND RESTRICTIONS AS FOLLOWS:

(1) OPERATING EXPERIENCE OF AT LEAST 15 YEARS UNDER SIMILAR CONDITIONS.

(2) ADEQUATE LEAKAGE DISTANCE ESTABLISHED BY TEST PER IEC PUBLICATION 507, FIRST EDITION, 1975.

(3) ADEQUATE STRENGTH FOR SHORT-CIRCUIT STRESS ESTABLISHED BY TEST.

(4) CONFORMANCE WITH APPLICABLE ANSI STANDARDS.

(5) HOMOGENEITY OF THE CYCLOALIPHATIC EPOXY RESIN THROUGHOUT EACH INSULATOR TO PROVIDE MAXIMUM RESISTANCE TO POWER ARCS. ABLATION DUE TO HIGH

TEMPERATURES FROM POWER ARCS SHALL CONTINUOUSLY EXPOSE MORE MATERIAL OF THE SAME COMPOSITION AND PROPERTIES SO THAT NO CHANGE IN MECHANICAL OR ELECTRICAL CHARACTERISTICS TAKES PLACE BECAUSE OF ARC-INDUCED ABLATION. FURTHERMORE, ANY SURFACE DAMAGE TO INSULATORS DURING INSTALLATION OR MAINTENANCE OF SWITCHGEAR SHALL EXPOSE MATERIAL OF THE SAME COMPOSITION AND PROPERTIES, SO THAT INSULATORS WITH MINOR SURFACE DAMAGE NEED NOT BE REPLACED.

2.7 BUS

2.7.1 HIGH-VOLTAGE MAIN BUS

(1) BUS AND INTERCONNECTIONS SHALL CONSIST OF COPPER BAR CA110, SQUARE EDGE, HARD TEMPER PER ASTM B187. BOLTED COPPER-TO-COPPER CONNECTIONS SHALL HAVE SILVERED INTERFACES AND SHALL BE MADE WITH 1/2"-3 STAINLESS STEEL BOLTS WITH TWO BRASS FLAT WASHERS PER BOLT, ONE UNDER THE BOLT HEAD AND ONE UNDER THE NUT, AND WITH A STAINLESS-STEEL SPLIT LOCKWASHER BETWEEN THE FLAT WASHER AND THE NUT. THESE BOLTS SHALL BE TIGHTENED TO 35 FOOT-POUNDS TORQUE.

2.7.2 GROUND BUS

(1) THE GROUND BUS SHALL CONSIST OF COPPER BAR CA110, SQUARE EDGE, HARD TEMPER PER ASTM B187. BOLTED COPPER-TO-COPPER CONNECTIONS SHALL HAVE SILVERED INTERFACES AND SHALL BE MADE WITH 1/2"-13 STAINLESS-STEEL BOLTS WITH TWO BRASS FLAT WASHERS PER BOLT, ONE UNDER THE BOLT HEAD AND ONE UNDER THE NUT, AND WITH A STAINLESS-STEEL SPLIT LOCKWASHER BETWEEN THE FLAT WASHER AND THE NUT.

2.8 LOW-VOLTAGE COMPONENTS

(1) ALL LOW-VOLTAGE COMPONENTS, SWITCH OPERATORS (EXCEPT THOSE INTEGRALLY MOUNTED IN THE SWITCHGEAR STYLE), SOURCE-TRANSFER CONTROLS, METERS, INSTRUMENTS, AND RELAYS, SHALL BE LOCATED IN GROUNDED, METAL-ENCLOSED COMPARTMENTS SEPARATE FROM HIGH VOLTAGE TO PROVIDE ISOLATION AND SHALL BE ARRANGED TO ALLOW COMPLETE ACCESSIBILITY FOR OPERATION WITHOUT EXPOSURE TO HIGH VOLTAGE.

(2) SPACE HEATERS SHALL BE PROVIDED IN ALL BAYS, SHALL HAVE A GROUNDED, PERFORATED, GALVANIZED STEEL GUARD.

(3) TO PROVIDE ISOLATION FROM HIGH VOLTAGE, LOW-VOLTAGE WIRING, EXCEPT FOR SHORT LENGTHS SUCH AS AT TERMINAL BLOCKS OR AT SUBSIDIARIES OF SENSING DEVICES, SHALL BE IN GROUNDED CONDUIT, CABLE TRAYS, OR RACEWAYS.

2.9 CABLE-TERMINATION SPACE

TO FACILITATE CABLE PULLING AND INSTALLATION OF CABLE TERMINATORS, PROVISIONS SHALL BE MADE FOR:

(1) FULL FRONT ACCESS FOR POSITIONING AND REMOVAL OF CABLE PULLING SHEAVES

(2) FREE ACCESS WITHOUT INTERFERENCE FROM NONREMOVABLE STRUCTURAL MEMBERS OR FROM MECHANICAL LINKAGES BETWEEN THE INTERRUPTER-SWITCH BLADES AND OPERATING MECHANISM.

3. FINISH AND FEATURES

3.2 OUTDOOR SWITCHGEAR

3.2.1 OUTDOOR FINISH

(1) THE ENCLOSURE FINISH SHALL CONFORM TO OR EXCEED THE APPLICABLE REQUIREMENTS OF ANSI C57.12.28.

(2) DURING FABRICATION, THE AREAS OF STRUCTURAL PARTS WHICH MAY LATER BECOME INACCESSIBLE, SUCH AS FOLDED EDGES AND OVERLAPPING MEMBERS, SHALL BE GIVEN AN IRON-OXIDE ZINC-CHROMATE ANTICORROSION PRIMER TO ENSURE THAT ALL SURFACES ARE PROTECTED.

(3) FULL COVERAGE AT JOINTS AND BLIND AREAS SHALL BE ACHIEVED BY PROCESSING ENCLOSURES INDEPENDENTLY OF COMPONENTS SUCH AS DOORS AND ROOFS BEFORE ASSEMBLY INTO THE UNITIZED STRUCTURES.

(4) TO REMOVE OILS AND DIRT, TO FORM A CHEMICALLY AND ANODICALLY NEUTRAL CONVERSION COATING TO IMPROVE THE FINISH-TO-METAL BOND, AND TO RETARD UNDERFILM PROPAGATION OF CORROSION, ALL SURFACES SHALL UNDERGO A THOROUGH PRETREATMENT PROCESS COMPRISED OF A FULLY AUTOMATED SYSTEM OF CLEANING, RINSING, PHOSPHATIZING, SEALING, DRYING, AND COOLING BEFORE ANY PROTECTIVE COATINGS ARE APPLIED. BY UTILIZING AN AUTOMATED PRETREATMENT PROCESS, THE ENCLOSURE WILL RECEIVE A HIGHLY CONSISTENT THOROUGH TREATMENT, ELIMINATING FLUCTUATIONS IN REACTION TIME, REAGENT VOLUME, AND CHEMICAL CONCENTRATIONS.

(5) AFTER PRETREATMENT, PROTECTIVE COATINGS SHALL BE APPLIED THAT SHALL HELP RESIST CORROSION AND PROTECT THE STEEL ENCLOSURE. TO ESTABLISH THE CAPABILITY TO RESIST CORROSION AND PROTECT THE ENCLOSURE, REPRESENTATIVE TEST SPECIMENS COATED BY THE ENCLOSURE MANUFACTURER'S FINISHING SYSTEM SHALL SATISFACTORILY PASS THE FOLLOWING TESTS:

(a) 4000 HOURS OF EXPOSURE TO SALT-SPRAY TESTING PER ASTM B 117 WITH:

(i) UNDERFILM CORROSION NOT TO EXTEND MORE THAN 1/32" FROM THE SCRIBE AS EVALUATED PER ASTM D 1654, PROCEDURE A, METHOD 2 (SCRAPING); AND

(ii) LOSS OF ADHESION FROM BARE METAL NOT TO EXTEND MORE THAN 1/8" FROM THE SCRIBE.

(b) 1000 HOURS OF HUMIDITY TESTING PER ASTM D 4585 WITH NO BLISTERING AS EVALUATED PER ASTM D 714

(c) 500 HOURS OF ULTRAVIOLET ACCELERATED WEATHERING TESTING PER ASTM G 53 USING LAMP UVB-313 WITH NO CHALKING AS EVALUATED PER ASTM D 659, AND NO MORE THAN A 10% REDUCTION OF PAINT GLOSS AS EVALUATED PER ASTM D 523.

(d) CROSSHATCH ADHESION TESTING PER ASTM D 3359 METHOD B WITH NO LOSS OF PAINT.

(e) 160-INCH-POUND IMPACT ADHESION TESTING PER ASTM D 2794 WITH NO PAINT CHIPPING OR CRACKING.

(f) OIL RESISTANCE TESTING CONSISTING OF A 72-HOUR IMMERSION BATH IN MINERAL OIL WITH NO SHIFT IN COLOR, NO STREAKING, NO BLISTERING, AND NO LOSS OF HARDNESS.

(g) 3000 CYCLES OF ABRASION TESTING PER ASTM 4060 WITH NO PENETRATION TO THE SUBSTRATE.

CERTIFIED TEST ABSTRACTS SUBSTANTIATING THE ABOVE CAPABILITIES SHALL BE FURNISHED UPON REQUEST.

(6) A HEAVY COAT OF INSULATING "NO-DRIP" COMPOUND SHALL BE APPLIED TO THE INSIDE SURFACE OF THE ROOF STRUCTURE TO PREVENT CONDENSATION OF MOISTURE THEREON.

4. BASIC COMPONENTS

4.1 INTERRUPTER SWITCHES

(1) INTERRUPTER SWITCHES SHALL HAVE A ONE-TIME OR TWO-TIME DUTY-CYCLE FAULT-CLOSING RATING EQUAL TO OR EXCEEDING THE SHORT-CIRCUIT RATING OF THE SWITCHGEAR. THESE RATINGS DEFINE THE ABILITY TO CLOSE THE INTERRUPTER SWITCH EITHER ALONE (UNFUSED) OR IN COMBINATION WITH THE APPROPRIATE FUSE, ONCE OR TWICE (AS APPLICABLE) AGAINST A THREE-PHASE FAULT WITH ASYMMETRICAL CURRENT IN AT LEAST ONE PHASE EQUAL TO THE RATED VALUE, WITH THE SWITCH REMAINING OPERABLE AND ABLE TO CARRY AND INTERRUPT RATED CURRENT. TESTS SUBSTANTIATING THESE RATINGS SHALL BE PERFORMED AT MAXIMUM VOLTAGE. CERTIFIED TEST ABSTRACTS ESTABLISHING SUCH RATINGS SHALL BE FURNISHED UPON REQUEST.

(2) INTERRUPTER SWITCHES INTENDED FOR MANUAL OPERATION SHALL BE OPERATED BY MEANS OF AN EXTERNALLY OPERABLE, NONREMOVABLE HANDLE. THE HANDLE SHALL HAVE PROVISIONS FOR PADLOCKING IN BOTH THE OPEN AND CLOSED POSITIONS. INTERRUPTER SWITCHES INTENDED FOR POWER OPERATION SHALL BE OPERATED BY MEANS OF A SWITCH OPERATOR EXPRESSLY DESIGNED TO BE COMPATIBLE WITH THE INTERRUPTER SWITCH.

(3) INTERRUPTER SWITCHES SHALL UTILIZE A QUICK-MAKE QUICK-BREAK MECHANISM INSTALLED BY THE SWITCH MANUFACTURER, WHICH SHALL SWIFTLY AND POSITIVELY OPEN AND CLOSE THE INTERRUPTER SWITCH INDEPENDENT OF THE SWITCH-HANDLE OR SWITCH OPERATOR OPERATING SPEED.

(a) FOR MANUALLY OPERATED INTERRUPTER SWITCHES, AND FOR INTERRUPTER SWITCHES OPERATED BY DIRECT MOTOR DRIVE SWITCH OPERATORS, THE QUICK-MAKE QUICK-BREAK MECHANISM SHALL BE INTEGRALLY MOUNTED TO THE SWITCH FRAME.

(b) FOR INTERRUPTER SWITCHES OPERATED BY STORED-ENERGY SWITCH OPERATORS, THE QUICK-MAKE QUICK-BREAK MECHANISM SHALL BE AN INTEGRAL PART OF THE SWITCH OPERATOR.

(4) INTERRUPTER SWITCHES SHALL BE COMPLETELY ASSEMBLED AND ADJUSTED BY THE SWITCH MANUFACTURER ON A SINGLE RIGID MOUNTING FRAME. THE FRAME SHALL BE OF WELDED STEEL CONSTRUCTION SUCH THAT THE FRAME INTERCEPTS THE LEAKAGE PATH WHICH PARALLELS THE OPEN GAP OF THE INTERRUPTER SWITCH, TO POSITIVELY ISOLATE THE LOAD CIRCUIT WHEN THE INTERRUPTER SWITCH IS IN THE OPEN POSITION.

(5) INTERRUPTER SWITCHES SHALL BE PROVIDED WITH A SINGLE BLADE PER PHASE FOR CIRCUIT CLOSING INCLUDING FAULT CLOSING. THE CIRCUIT CLOSING MECHANISM SHALL BE OF INTERRUPTING, SPRING-LOADED AUXILIARY BLADES SHALL NOT BE PERMITTED.

(6) CIRCUIT INTERRUPTION SHALL BE ACCOMPLISHED BY USE OF AN INTERRUPTER WHICH IS POSITIVELY AND INHERENTLY SEQUENCED WITH THE BLADE POSITION. CIRCUIT INTERRUPTION SHALL TAKE PLACE COMPLETELY WITHIN THE INTERRUPTER, WITH NO EXTERNAL ARC OR FLAME. ANY EXTERNAL ARC SHALL BE VENTED IN A CONTROLLED MANNER THROUGH A LABYRINTHINE MUFFLER OR A DEIONIZING VENT.

(7) INTERRUPTER SWITCHES SHALL HAVE A READILY VISIBLE OPEN GAP WHEN IN THE OPEN POSITION TO ALLOW POSITIVE VERIFICATION OF SWITCH POSITION.

(8) TERMINALS ON INTERRUPTER SWITCHES TO WHICH CABLE WILL BE TERMINATED SHALL BE EQUIPPED WITH GROUNDING PROVISIONS. GROUNDING PROVISIONS SHALL ALSO BE PROVIDED ON THE GROUND BUS IN SUCH BAYS.

(9) TERMINALS ON INTERRUPTER SWITCHES RATED 1200 AMPERES AND, FOR ENTRANCE-BAY APPLICATIONS ONLY, TERMINALS ON INTERRUPTER SWITCHES THAT ARE USED IN CONJUNCTION WITH FUSES RATED 600 AMPERES OR GREATER SHALL BE EQUIPPED WITH PROVISIONS FOR TWO CABLES PER PHASE.

4.2 FUSES

4.2.1 SOLID-MATERIAL POWER FUSES

(1) SOLID-MATERIAL POWER FUSES SHALL BE OF THE SOLID-MATERIAL TYPE AND SHALL UTILIZE REFILL UNIT AND HOLDER OR FUSE UNIT AND END-FITTING CONSTRUCTION. THE REFILL UNIT OR FUSE UNIT SHALL BE READILY REPLACEABLE.

(2) FOR SWITCHGEAR RATED UP THROUGH 270 MVA AT 4.16 KV, 600 MVA AT 13.8 KV, 860 MVA AT 25 KV, AND 1000 MVA AT 34.5 KV, MOUNTINGS FOR SOLID-MATERIAL POWER FUSES SHALL BE DISCONNECT STYLE. NON-DISCONNECT STYLE MOUNTINGS FOR POWER FUSES SHALL BE USED ONLY WHERE HIGHER RATINGS ARE REQUIRED.

(3) FUSIBLE ELEMENTS SHALL BE NONAGING AND NONDAMAGEABLE SO THAT IT IS UNNECESSARY TO REPLACE UNBLOWN COMPANION FUSES FOLLOWING A FUSE OPERATION.

(4) FUSIBLE ELEMENTS FOR REFILL UNITS OR FUSE UNITS, RATED 10 AMPERES OR LARGER, SHALL BE HELICALLY COILED TO AVOID MECHANICAL DAMAGE DUE TO STRESSES FROM CURRENT SURGES.

(5) FUSIBLE ELEMENTS THAT CARRY CONTINUOUS CURRENT SHALL BE SUPPORTED IN AIR TO HELP PREVENT DAMAGE FROM CURRENT SURGES.

(6) SOLID-MATERIAL POWER FUSES SHALL HAVE MELTING TIME-CURRENT CHARACTERISTICS THAT ARE PERMANENTLY ACCURATE WITH A MAXIMUM TOTAL TOLERANCE OF 10% IN TERMS OF CURRENT. TIME-CURRENT CHARACTERISTICS SHALL BE AVAILABLE WHICH PERMIT COORDINATION WITH PROTECTIVE RELAYS, AUTOMATIC CIRCUIT RECLOSERS, AND OTHER FUSES.

(7) SOLID-MATERIAL POWER FUSES SHALL BE CAPABLE OF DETECTING AND INTERRUPTING ALL FAULTS WHETHER LARGE, MEDIUM, OR SMALL (DOWN TO MINIMUM MELTING CURRENT). UNDER ALL REALISTIC CONDITIONS OF CIRCUITRY, WITH LINE-TO-LINE OR LINE-TO-GROUND VOLTAGE ACROSS THE POWER FUSES, AND SHALL BE CAPABLE OF HANDLING THE FULL RANGE OF TRANSIENT RECOVERY VOLTAGE SEVERITY ASSOCIATED WITH THESE FAULTS.

(8) ALL ARCING ACCOMPANYING POWER FUSE OPERATION SHALL BE CONTAINED WITHIN THE FUSE, AND ANY ARC PRODUCTS AND GASES EVOLVED DURING FUSE OPERATION SHALL BE VENTED THROUGH EXHAUST CONTROL DEVICES THAT SHALL EFFECTIVELY CONTROL FUSE EXHAUST.

(9) SOLID-MATERIAL POWER FUSES SHALL BE EQUIPPED WITH A BLOWN-FUSE INDICATOR THAT SHALL PROVIDE VISIBLE EVIDENCE OF FUSE OPERATION WHILE INSTALLED IN THE FUSE MOUNTING.

(10) SOLID-MATERIAL POWER FUSES IN FEEDER BAYS SHALL BE EQUIPPED WITH GROUNDING PROVISIONS ON THE LOAD SIDE OF EACH FUSE AND ON THE ENCLOSURE GROUND BUS.

5. LABELING

5.1 WARNING SIGNS

(1) ALL EXTERNAL DOORS AND HINGED BOLTED PANELS PROVIDING ACCESS TO HIGH VOLTAGE SHALL BE PROVIDED WITH "CAUTION -- HIGH VOLTAGE -- KEEP OUT" SIGNS.

(2) ALL INTERNAL PROTECTIVE SCREENS PROVIDING ACCESS TO HIGH VOLTAGE SHALL BE PROVIDED WITH "DANGER -- HIGH VOLTAGE -- KEEP OUT __ QUALIFIED PERSONS ONLY" SIGNS.

(3) ALL INTERNAL PROTECTIVE SCREENS PROVIDING ACCESS TO INTERRUPTER SWITCHES SHALL BE PROVIDED WITH WARNING SIGNS INDICATING THAT "SWITCH BLADES MAY BE ENERGIZED IN ANY POSITION."

(4) ALL INTERNAL PROTECTIVE SCREENS PROVIDING ACCESS TO FUSES SHALL BE PROVIDED WITH WARNING SIGNS INDICATING THAT "FUSES MAY BE ENERGIZED IN ANY POSITION."

5.2 RATING NAMEPLATES

(1) THE INTEGRATED SWITCHGEAR ASSEMBLY SHALL BE PROVIDED WITH AN EXTERNAL NAMEPLATE INDICATING THE MANUFACTURER'S DRAWING NUMBER AND THE FOLLOWING: VOLTAGE RATINGS (KV, NOMINAL; KV, MAXIMUM; KV, BIL); MAIN BUS CONTINUOUS RATING (AMPERES); SHORT-CIRCUIT RATINGS (AMPERES, RMS SYMMETRICAL AND MVA THREE-PHASE SYMMETRICAL AT RATED NOMINAL VOLTAGE); AND THE MOMENTARY AND FAULT-CLOSING RATINGS (AMPERES, RMS ASYMMETRICAL). WHEN THE ASSEMBLY IS UL LISTED, THE EXTERNAL NAMEPLATE SHALL INCLUDE THE UL CLASSIFICATION MARKINGS COMPRISED OF "UL" IN A CIRCLE; THE WORD "LISTED"; THE ASSIGNED CONTROL NUMBER; AND THE PRODUCT IDENTITY.

(2) EACH INDIVIDUAL BAY SHALL BEAR A NAMEPLATE INDICATING THE RATINGS OF THE INTERRUPTER SWITCH (AMPERES, CONTINUOUS AND INTERRUPTING); THE MAXIMUM RATING OF THE FUSE IN AMPERES; AND THE CATALOG NUMBER OF THE FUSE UNITS, REFILL UNITS, INTERRUPTING MODULE, OR CONTROL MODULE. WHEN THE INDIVIDUAL BAY IS TO BE UL LISTED, THIS NAMEPLATE SHALL INCLUDE THE UL CLASSIFICATION MARKINGS COMPRISED OF "UL" IN A CIRCLE; THE WORD "LISTED"; THE ASSIGNED CONTROL NUMBER; AND THE PRODUCT IDENTITY. IN ADDITION, THE ENCLOSURE CATEGORY SHALL BE SPECIFIED.

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KEY PLAN

REV	DESCRIPTION	DATE
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2.12 ENCLOSURES
A. NEMA 1 ENCLOSURE

2.13 NAMEPLATES
A. ENGRAVED NAMEPLATES, MOUNTED ON THE FACE OF THE ASSEMBLY, SHALL BE FURNISHED FOR ALL MAIN AND FEEDER CIRCUITS AS INDICATED ON THE DRAWINGS. NAMEPLATES SHALL BE LAMINATED PLASTIC, BLACK CHARACTERS ON WHITE BACKGROUND. CHARACTERS SHALL BE 3/16-INCH HIGH, MINIMUM. NAMEPLATES SHALL GIVE ITEM DESIGNATION AND CIRCUIT NUMBER AS WELL AS FRAME AMPERE SIZE AND APPROPRIATE TRIP RATING. FURNISH MASTER NAMEPLATE GIVING SWITCHBOARD DESIGNATION, VOLTAGE AMPERE RATING, SHORT-CIRCUIT RATING, MANUFACTURER'S NAME, GENERAL ORDER NUMBER, AND ITEM NUMBER.
B. CONTROL COMPONENTS MOUNTED WITHIN THE ASSEMBLY, SUCH AS FUSE BLOCKS, RELAYS, PUSHBUTTONS, SWITCHES, ETC., SHALL BE SUITABLY MARKED FOR IDENTIFICATION CORRESPONDING TO APPROPRIATE DESIGNATIONS ON MANUFACTURER'S WIRING DIAGRAMS.

2.14 FINISH
A. ALL EXTERIOR AND INTERIOR STEEL SURFACES OF THE SWITCHBOARD SHALL BE PROPERLY CLEANED AND PROVIDED WITH A RUST-INHIBITING PHOSPHATIZED COATING. COLOR AND FINISH OF THE SWITCHBOARD SHALL BE ANSI 61 LIGHT GRAY.

PART 3 EXECUTION

3.01 FACTORY TESTING
A. THE FOLLOWING STANDARD FACTORY TESTS SHALL BE PERFORMED ON THE EQUIPMENT PROVIDED UNDER THIS SECTION. ALL TESTS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF ANSI AND NEMA STANDARDS.
1. THE SWITCHBOARD SHALL BE COMPLETELY ASSEMBLED, WIRED, ADJUSTED, AND TESTED AT THE FACTORY. AFTER ASSEMBLY, THE COMPLETE SWITCHBOARD WILL BE TESTED FOR OPERATION UNDER SIMULATED SERVICE CONDITIONS TO ENSURE THE ACCURACY OF THE WIRING AND THE FUNCTIONING OF ALL EQUIPMENT. THE MAIN CIRCUITS SHALL BE GIVEN A DIELECTRIC TEST OF 2200 VOLTS FOR ONE (1) MINUTE BETWEEN LIVE PARTS AND GROUND, AND BETWEEN OPPOSITE POLARITIES. THE WIRING AND CONTROL CIRCUITS SHALL BE GIVEN A DIELECTRIC TEST OF 1500 VOLTS FOR ONE (1) MINUTE BETWEEN LIVE PARTS AND GROUND
B. THE MANUFACTURER SHALL PROVIDE THREE (3) CERTIFIED COPIES OF FACTORY TEST REPORTS.
C. FACTORY TO CONNECT AND SETUP ETHERNET GATEWAYS AND/OR DATA AGGREGATION PROCESSORS (SUCH AS EATON PXG900 OR POWER XPERT DASHBOARD LITE) INCLUDED IN SWITCHBOARD ASSEMBLIES. FACTORY TESTING SHOULD ALSO INCLUDE CONFIRMATION THAT THE PROCESSOR AND DISPLAY COMMUNICATE WITH EACH OTHER AND THAT EVERY DEVICE CONNECTED TO THE PROCESSOR IS COMMUNICATING WITH THE PROCESSOR. ADDRESSES FOR THE COMMUNICATING DEVICES IN THESE NETWORKS WILL BE INDICATED ON FACTORY SUPPLIED COMMUNICATION DRAWINGS.

3.02 TRAINING
A. THE CONTRACTOR SHALL PROVIDE A TRAINING SESSION FOR UP TO FIVE (5) OWNER'S REPRESENTATIVES FOR 3 NORMAL WORKDAYS AT A JOB SITE LOCATION DETERMINED BY THE OWNER.
B. A MANUFACTURER'S QUALIFIED REPRESENTATIVE SHALL CONDUCT THE TRAINING SESSION. THE TRAINING PROGRAM SHALL CONSIST OF INSTRUCTION ON OPERATION OF THE ASSEMBLY, CIRCUIT BREAKERS, FUSED SWITCHES, AND MAJOR COMPONENTS WITHIN THE ASSEMBLY.

3.03 INSTALLATION
A. THE CONTRACTORS SHALL INSTALL ALL EQUIPMENT PER THE MANUFACTURER'S INSTRUCTIONS, CONTRACT DRAWINGS AND NATIONAL ELECTRICAL CODE.
B. THE ASSEMBLY SHALL BE PROVIDED WITH ADEQUATE LIFTING MEANS AND SHALL BE CAPABLE OF BEING MOVED INTO INSTALLATION POSITION AND BOLTED DIRECTLY TO CONTRACTOR SUPPLIED FLOOR SILLS TO BE SET LEVEL IN CONCRETE PER MANUFACTURER'S RECOMMENDATIONS. ALL NECESSARY HARDWARE TO SECURE THE ASSEMBLY IN PLACE SHALL BE PROVIDED BY THE CONTRACTOR.

3.04 FIELD ADJUSTMENTS
A. THE CONTRACTOR SHALL PERFORM FIELD ADJUSTMENTS OF THE PROTECTIVE DEVICES AS REQUIRED TO PLACE THE EQUIPMENT IN FINAL OPERATING CONDITION. THE SETTINGS SHALL BE IN ACCORDANCE WITH THE APPROVED SHORT-CIRCUIT STUDY, PROTECTIVE DEVICE EVALUATION STUDY AND PROTECTIVE DEVICE COORDINATION STUDY.
B. NECESSARY FIELD SETTINGS OF DEVICES, ADJUSTMENTS AND MINOR MODIFICATIONS TO EQUIPMENT TO ACCOMPLISH CONFORMANCE WITH AN APPROVED SHORT CIRCUIT AND PROTECTIVE DEVICE COORDINATION STUDY SHALL BE CARRIED OUT BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.


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DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	N.T.S.

DRAWING TITLE :
SWITCHBOARD SPECIFICATION
SHEET 2 OF 2

DWG NUMBER :

E-907

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.