HVAC SYMBOLS

- AIRFLOW (SUPPLY/OUTSIDE AIR)
- AIRFLOW (RETURN/EXHAUST)
- DOOR GRILLE
- SUPPLY OR OUTDOOR AIR
- RETURN OR TRANSFER
- EXHAUST
- SUPPLY DUCT TURNED AWAY
- SUPPLY DUCT TURNED TOWARD
- RECTANGLE DUCT SIZE (FIRST FIGURE IS SIDE SHOWN)
- ROUND DUCT (RIGID)
- OVAL DUCT (FIRST FIGURE IS SIDE SHOWN)
- DUCT (FLEXIBLE ROUND)
- TURNING VANES
- TRANSITION (SQUARE-TO-ROUND)
- SMOKE DETECTOR
- SECURITY BARS
- BACKDRAFT DAMPER
- VOLUME DAMPER
- FIRE DAMPER & ACCESS DOOR
- SMOKE DAMPER & ACCESS DOOR
- COMBINATION FIRE/SMOKE DAMPER & ACCESS DOOR
- MOTOR OPERATED CONTROL DAMPER
- CEILING MOUNTED ACCESS PANEL
- AIR OUTLET/INLET TYPE (CFM)
- AIR FLOW MEASURING STATION

MECHANICAL PIPING

- COMPRESSED AIR
- BOILER FEED WATER
- BOILER SURFACE BLOW DOWN
- BOILER BOTTOM BLOW DOWN
- CHEMICAL FEED
- CHILLED WATER SUPPLY
- CHILLED WATER RETURN
- CONDENSER WATER SUPPLY
- CONDENSER WATER RETURN
- CONDENSATE DRAIN
- GLYCOL WATER SUPPLY
- GLYCOL WATER RETURN
- HIGH PRESSURE CONDENSATE RETURN
- HIGH PRESSURE STEAM
- HOT WATER SUPPLY
- HOT WATER RETURN
- ICE WATER SUPPLY
- ICE WATER RETURN
- LIQUID PETROLEUM
- LOW PRESSURE STEAM
- LOW PRESSURE CONDENSATE RETURN
- MEDIUM PRESSURE STEAM
- MEDIUM PRESSURE CONDENSATE RETURN
- NATURAL GAS
- PUMPED CONDENSATE RETURN
- REFRIGERANT LIQUID
- REFRIGERANT SUCTION
- REFRIGERANT HOT GAS
- STEAM RELIEF VENT
- TOWER WATER SUPPLY
- TOWER WATER RETURN
- VACUUM

PIPING SYMBOLS

- PIPE TURNED TOWARD
- PIPE TURNED AWAY
- PIPE TEE TURNED AWAY
- PIPE TEE TURNED TOWARD
- FLEXIBLE CONNECTOR
- UNION
- FLANGES
- REDUCER (CONCENTRIC)
- REDUCER (ECCENTRIC)
- PIPE CAP/CLEAN OUT
- PIPE PLUG
- FLUID FLOW DIRECTION
- PIPE GUIDE
- PIPE ANCHOR
- PIPE PITCH DIRECTION
- PRESSURE GAUGE
- THERMOMETER
- WATER HAMMER ARRESTOR
- AIR VENT (AUTO)
- AIR VENT (MANUAL)
- AUTOMATIC CONTROL VALVE (2-WAY)
- AUTOMATIC CONTROL VALVE (3-WAY)
- BALL VALVE
- BALANCING VALVE
- BUTTERFLY VALVE
- BACKFLOW PREVENTION VALVE
- CHECK VALVE
- EQUIPMENT DRAIN VALVE
- FILTER
- FLOW MEASUREMENT STATION
- GATE VALVE
- GAUGE CONNECTION (TEST PLUG)
- GLOBE ANGLE VALVE
- GLOBE VALVE
- ISOLATION/SHUT-OFF/MANUAL VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- PRESSURE REGULATING VALVE
- RELIEF VALVE
- STEAM TRAP
- SOLENOID VALVE ONE-WAY (ELECTRIC)
- STRAINER
- STRAINER WITH BLOW OFF VALVE AND NIPPLE
- VACUUM BREAKER
- PUMP
- FLOW SENSOR
- LEVEL SENSOR
- PRESSURE SENSOR
- TEMPERATURE SENSOR

GENERAL SYMBOLS

- CARBON MONOXIDE (CO) SENSOR
- CARBON DIOXIDE (CO2) SENSOR
- DIFFERENTIAL PRESSURE SENSOR
- NITROGEN DIOXIDE (NO2) SENSOR
- ROOM SENSOR
- STATIC PRESSURE SENSOR
- HUMIDISTAT
- TEMPERATURE SENSOR
- THERMOSTAT
- INSULATED BASE THERMOSTAT
- SWITCH
- NEW CONNECTION TO EXISTING
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW TO BE INSTALLED

GENERAL MECHANICAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND IS REQUIRED TO DO ALL WORK WHICH IS SHOWN ON THE DRAWINGS, STATED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED AS NECESSARY TO COMPLETE THEIR DIVISION OF WORK FOR THIS PROJECT REGARDLESS OF WHERE IN THE CONTRACT DOCUMENTS THE WORK IS REPRESENTED. MECHANICAL CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES. ALL OTHER TRADE DOCUMENTS ARE TO BE CONSIDERED PART OF THIS CONTRACTORS DOCUMENTS WITH RESPECT TO COORDINATION OF WORK BETWEEN TRADES OF WORK.
2. ABBREVIATIONS AND SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
3. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
4. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
5. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE, FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
6. ACCURATE AND LEGIBLE AS-BUILT DRAWING MARKUPS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT FOR THE CREATION OF FINAL RECORD DRAWINGS.
7. ALL NEW AND EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
8. TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
9. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE AND DUCT ROUTING WITH OWNER PRIOR TO INSTALLATION.
10. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS.
11. MAINTAIN 3'-0" CLEAR HORIZONTALLY IN FRONT OF ALL ELECTRICAL EQUIPMENT.
12. COORDINATE POWER REQUIREMENTS FOR ALL POWER TO MECHANICAL EQUIPMENT INCLUDING CONTROL SYSTEM WITH ELECTRICAL CONTRACTOR AND INSURE ALL COSTS ASSOCIATED WITH SUCH ARE INCLUDED IN THE PROJECT BID COST. PROVIDE ELECTRICAL POWER, TRANSFORMERS, RELAYS, ETC. AS NECESSARY TO ALL HVAC AND MECHANICAL CONTROLS.
13. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES ON ALL EQUIPMENT.

AIR CONDITIONING DESIGN DATA SCHEDULE

DESIGN AREA	SUMMER				WINTER			SITE ALTITUDE (FT)	REMARKS
	OUTSIDE		INSIDE		OUTSIDE	INSIDE			
	°F (DB)	°F (WB)	°F (DB)	% HUMID	°F (DB)	°F (DB)	% HUMID		
SERVER ROOMS	91.3	74.9	75	50	-9.2	72.0	35	663	
OCCUPIED ROOMS	91.3	74.9	75	50	-9.2	72.0	35	663	
HEATING & VENTING ONLY	91.3	74.9	-	-	-9.2	72.0	35	663	

ABBREVIATIONS

A	AMPS
AB	AIR BLOWDOWN
ABI	ALTERNATE BID ITEM
AC	DUCTLESS SPLIT SYSTEM
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
ACH	AIR COOLED CHILLER
ACOMP	AIR COMPRESSOR
ACU	AIR CONDITIONING UNIT
ACV	AUTOMATIC CONTROL VALVE
AD	AIR DROP
AF	AIR FILTER OR AIR FOIL
AFC	AFTER COOLER
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMD	AIR MIXING DEVICE
ANG	AIR NATIONAL GUARD
APPROX	APPROXIMATELY
AS	AIR SEPARATOR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT	AIR TERMINAL
AWC	ABSORPTION CHILLER
BAS	BUILDING AUTOMATION SYSTEM
BC	BOOSTER COIL
BH	BOOSTER HUMIDIFIER
BHP	BRAKE HORSEPOWER
BHR	CONTINUOUS BLOWDOWN HEAT RECOVERY SYSTEM
BI	BACKWARD INCLINED
BLD	BOILER BLOWDOWN SEPARATOR
BPD	BACKFLOW PREVENTION DEVICE
BRS	BRASS
BRZ/BZ	BRONZE
BS	BLACK (MILD) STEEL
BSB	BRANCH SELECTOR BOX
BT	BUFFER TANK
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BW	BUTTWELD
C	CONVECTOR
CA	COMBUSTION AIR
CAD	COMPRESSED AIR DRYER
CAF	COMPRESSED AIR FILTER
CC	COOLING COIL OR CONTROLS CONTRACTOR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
COMP	COMPRESSOR
COND	CONDENSATE
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CRP	CONDENSATE RETURN PUMP
CS	CENTRIFUGAL SEPARATOR
CT	COOLING TOWER
CTCLG	CLOSE TO CEILING
CTCLM	CLOSE TO COLUMN
CTW	CLOSE TO WALL
CU	COPPER
CUH	CABINET UNIT HEATER
DAC	DOOR AIR CURTAIN
DBA	DECIBELS, BAND A
DC	DUST COLLECTOR
DCVA	DOUBLE CHECK VALVE ASSEMBLY BPD
DDC	DIRECT DIGITAL CONTROL
DDH	DESICCANT DEHUMIDIFIER
DEMO	DEMOLISH
DF	DESTRATIFICATION FAN
DFD	DIVISION OF FACILITIES DEVELOPMENT
DIA	DIAMETER
DIM	DIMENSION
DISCH	DISCHARGE
DMPR	DAMPER
DN	DOWN
DOD	DEPARTMENT OF DEFENSE
DRC	DRY COOLER
DWG	DRAWING
DX	DIRECT EXPANSION
E	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EBH	ELECTRIC BASEBOARD HEATER
EC	EVAPORATIVE COOLER OR ELECTRICAL CONTRACTOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EFT	ENTERING FLUID TEMPERATURE
EG	EXHAUST GRILLE
EGLY	ETHYLENE GLYCOL
EHC	ELECTRIC HEATING COIL
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
EOM	END OF MAIN
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
ERV	AIR-TO-AIR HEAT EXCHANGER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
°F	FAHRENHEIT
FAF	FORCED AIR FURNACE
FC	FLUID COOLER
FCU	FAN COIL UNIT
FE	FUME EXTRACTOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FM	FLOW METER
FOP	FUEL OIL PUMP
FPM	FEET PER MINUTE
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FLASH TANK OR FEET
FTC	FINNED TUBE CONVECTOR
FTWC	FEET WATER COLUMN PRESSURE
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GFT	GLYCOL FILL TANK
GPM	GALLONS PER MINUTE
GS	GALVANIZED STEEL
H	HEIGHT
HB	HUMIDIFICATION BOILER
HC	HEATING COIL
HD	HEAD (FT)
HDB	HYDROSTATIC DESIGN BASIS
HP	HEAT PUMP OR HORSEPOWER
HPC	ERV HEAT PUMP COIL
HR	HOSE REEL
HRW	ROTARY AIR-TO-AIR EXCHANGER
HUM	HUMIDIFIER
HVLS	HIGH VOLUME LOW SPEED
HWB	HOT WATER BOILER
HX	FLUID HEAT EXCHANGER
HZ	HERTZ
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IFGC	INTERNATIONAL FUEL GAS CODE
IH	INTAKE HOOD
IN	INCH
INHG	INCHES MERCURY PRESSURE
INWC	INCHES WATER COLUMN PRESSURE
IR	INFRARED HEATER
KH	KITCHEN HOOD
KW	KILOWATT
L	LOUVER OR LENGTH
LAT	LEAVING AIR TEMPERATURE
LB	POUNDS
LD	LINEAR DIFFUSER
LFT	LEAVING FLUID TEMPERATURE
LPG	LIQUIFIED PETROLEUM GAS
LS	LEVEL SWITCH
LWT	LEAVING WATER TEMPERATURE
MADP	MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE
MAU	MAKE-UP AIR UNIT
MAWP	MAXIMUM ALLOWABLE WORKING PRESSURE
MAX	MAXIMUM
MBH	THOUSANDS BTU'S PER HOUR
MC	MECHANICAL CONTRACTOR OR MECHANICAL COUPLING
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MIN	MINIMUM
MMBH	MILLION BTU PER HOUR
MOCP	MINIMUM OVER CURRENT PROTECTION
MSS	MANUFACTURERS STANDARDIZATION SOCIETY
MTL	MATERIAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NH	NO-HUB
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NPSHA	NPSH AVAILABLE
NPSHR	NPSH REQUIRED
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
P	HYDRONIC PUMP OR PRESSURE
PC	PLUMBING CONTRACTOR
PCP	PRESSURE POWERED CONDENSATE PUMP
PD	PRESSURE DROP/DIFFERENTIAL
PG	PROPYLENE GLYCOL
PH	PHASE
PPH	POUND PER HOUR
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSID	PSI DIFFERENTIAL
PSIG	PSI GAGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
RDH	REFRIGERATED DEHUMIDIFIER
RG	RETURN GRILLE
RH	RELIEF HOOD
RPM	REVOLUTIONS PER MINUTE
RTD	RESISTIVE THERMAL DEVICE
RTU	ROOF TOP UNIT
RZ	RADIANT FLOOR HEATING ZONE
SA	SUPPLY AIR
SAD	SOUND ATTENUATING DEVICE
SB	SECURITY BARRIER
SCFM	STANDARD CFM
SCH	SCHEDULE
SD	SLOT DIFFUSER/SOLDER
SF	STEAM FILTER OR SUPPLY FAN
SG	SUPPLY GRILLE
SHT	SHEET
SMLS	SEAMLESS
SMS	SNOW MELTING SYSTEM DISTRIBUTION MANIFOLD
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ	SQUARE
SRV	SAFETY RELIEF VALVE
SS	STAINLESS STEEL
ST	STEAM TRAP
STD	STANDARD
STL	STEEL
SV	SOLVENT WELD
SW	SOCKET WELD
T	TEMPERATURE
TA	TRANSFER AIR
TCP	TEMPERATURE CONTROL PANEL
TDH	TOTAL DEVELOPED HEAD
TDS	TOTAL DISSOLVED SOLIDS
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TH	THREADED
TMC	TECHNOLOGY MANAGEMENT CENTER
TMV	THERMOSTATIC MIXING VALVE
TONR	TONS COOLING
TYP	TYPICAL
UC	UNIT COOLER
UFC	UNIFIED FACILITIES CRITERIA
UGD	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR OR ULTRAVIOLET
V	VOLTS
VA	VENT AIR
VER	VEHICLE EXHAUST REEL
VFD	VARIABLE FREQUENCY DRIVE
VI	VIBRATION ISOLATORS
VLV	VALVE
VRF	VARIABLE REFRIGERANT FLOW
W	WATTS OR WIDTH
WC	WATER COLUMN
WCC	WATER COOLED CONDENSER
WCH	WATER COOLED CHILLER
WF	WATER FILTER
WIV	WATER INLET VALVE
WHA	WATER HAMMER ARRESTOR

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LA CROSSE REGIONAL AIRPORT REHABILITATE ARFF BUILDING

2841 Fanta Reed Rd
La Crosse, WI 54603

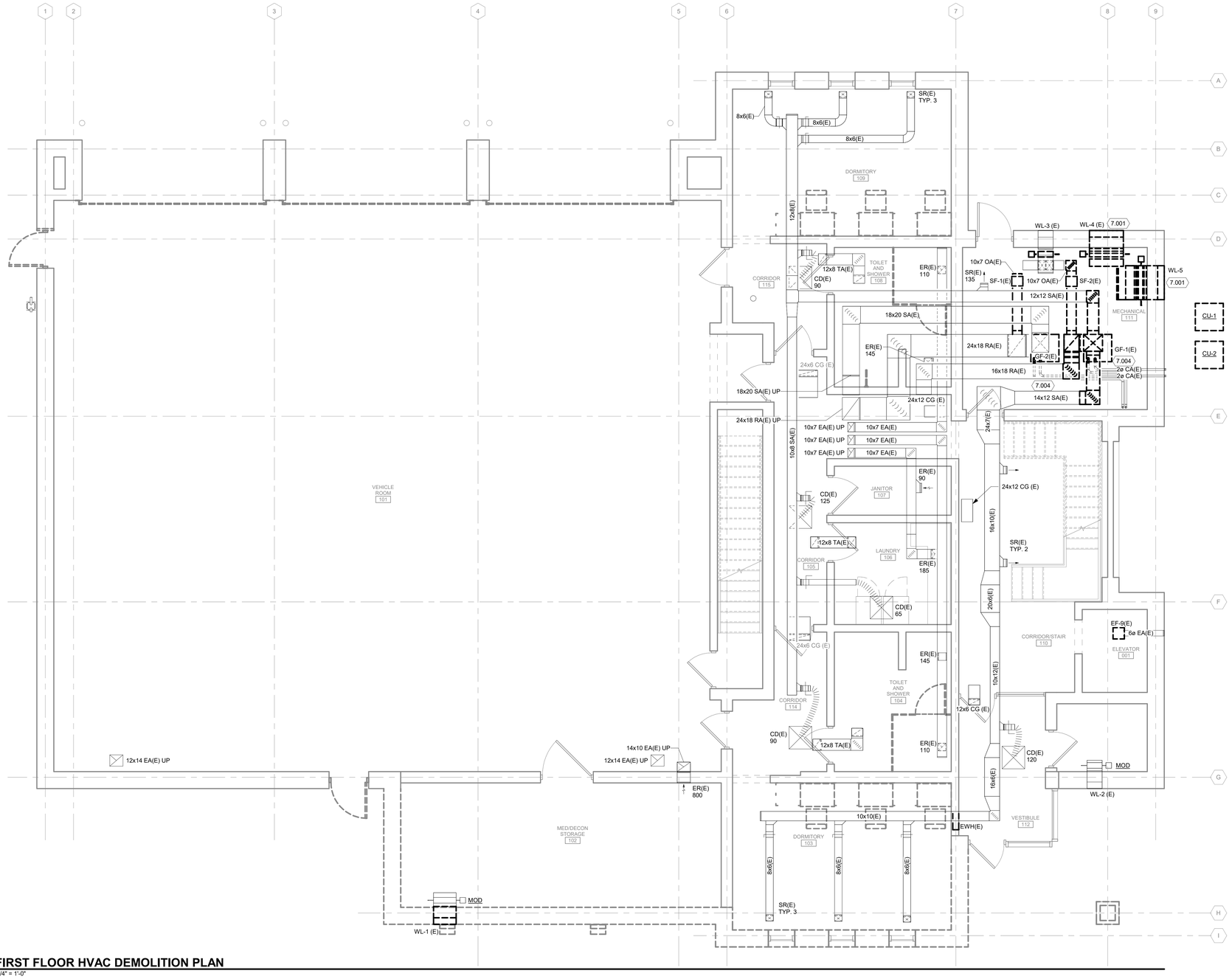
ISSUED

M&H NO.: 2309930-201676.01
DATE: 01/23/2026
DESIGNED BY: LB
DRAWN BY: LB
CHECKED BY: RS

DO NOT SCALE DRAWINGS

SHEET CONTENTS
NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NO.:
M-001



TRUE NORTH PLAN NORTH

1 FIRST FLOOR HVAC DEMOLITION PLAN

1/4" = 1'-0"

GENERAL HVAC DEMOLITION NOTES

1. COMPLETELY DEMOLISH ALL EXISTING DUCTWORK AS SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED ACCESSORIES, INSULATION, HANGER SUPPORTS, ETC. FOR REMAINING DUCT SYSTEM. PLUG OR CAP ALL OPENINGS CREATED BY DUCT DEMOLITION. TEST DUCTWORK AS SPECIFIED, AND INSULATE OR PAINT SAME AS NEW WORK. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
2. COMPLETELY DEMOLISH ALL EXISTING EQUIPMENT AS SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED ACCESSORIES, INSULATION, HANGERS, SUPPORTS, BASES, CONTROLS, ETC. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
3. DELIVER INDICATED EQUIPMENT TO OWNER'S DESIGNATED STORAGE SPACE ON SITE, PLUG OR CAP ALL EQUIPMENT OPENINGS TO PREVENT DIRT AND MOISTURE FROM ENTERING EQUIPMENT.
4. REINSTALL INDICATED EQUIPMENT, SAME AS NEW WORK, IN NEW LOCATION WHERE INDICATED. COMPLETELY CLEAN AND RESTORE EQUIPMENT TO GOOD OPERATING CONDITION.
5. INSTALL TEMPORARY COVERS OVER EXISTING EXTERIOR ENVELOPE OPENINGS CREATED BY REMOVED EQUIPMENT/DUCT. COVER SHALL BE WATERTIGHT, AND MEET OSHA AND OWNER REQUIREMENTS. COMPLETELY REMOVE TEMPORARY COVER WHEN OPENINGS ARE PATCHED TO FINAL CONDITION. REPAIR ANY DAMAGE TO EXISTING BUILDING COMPONENTS CAUSED BY TEMPORARY COVER.
6. WHERE BRANCH DUCTWORK IS SHOWN TO BE DEMOLISHED BACK TO THE MAIN DUCT AND THE EXISTING MAIN DUCT OPENING IS NOT TO BE RE-USED, CAP AND SEAL THE MAIN DUCT BRANCH OPENING AIRTIGHT.

KEYED NOTES

7.001 EXISTING LOUVER TO REMAIN. CAP OPENING WITH DOUBLE WALL INSULATED METAL PANEL.

7.004 REMOVE PORTION OF CA & FLUE DUCTS AS NEEDED. COORDINATE EXACT DEMOLITION POINT WITH NEW EQUIPMENT LAYOUT.

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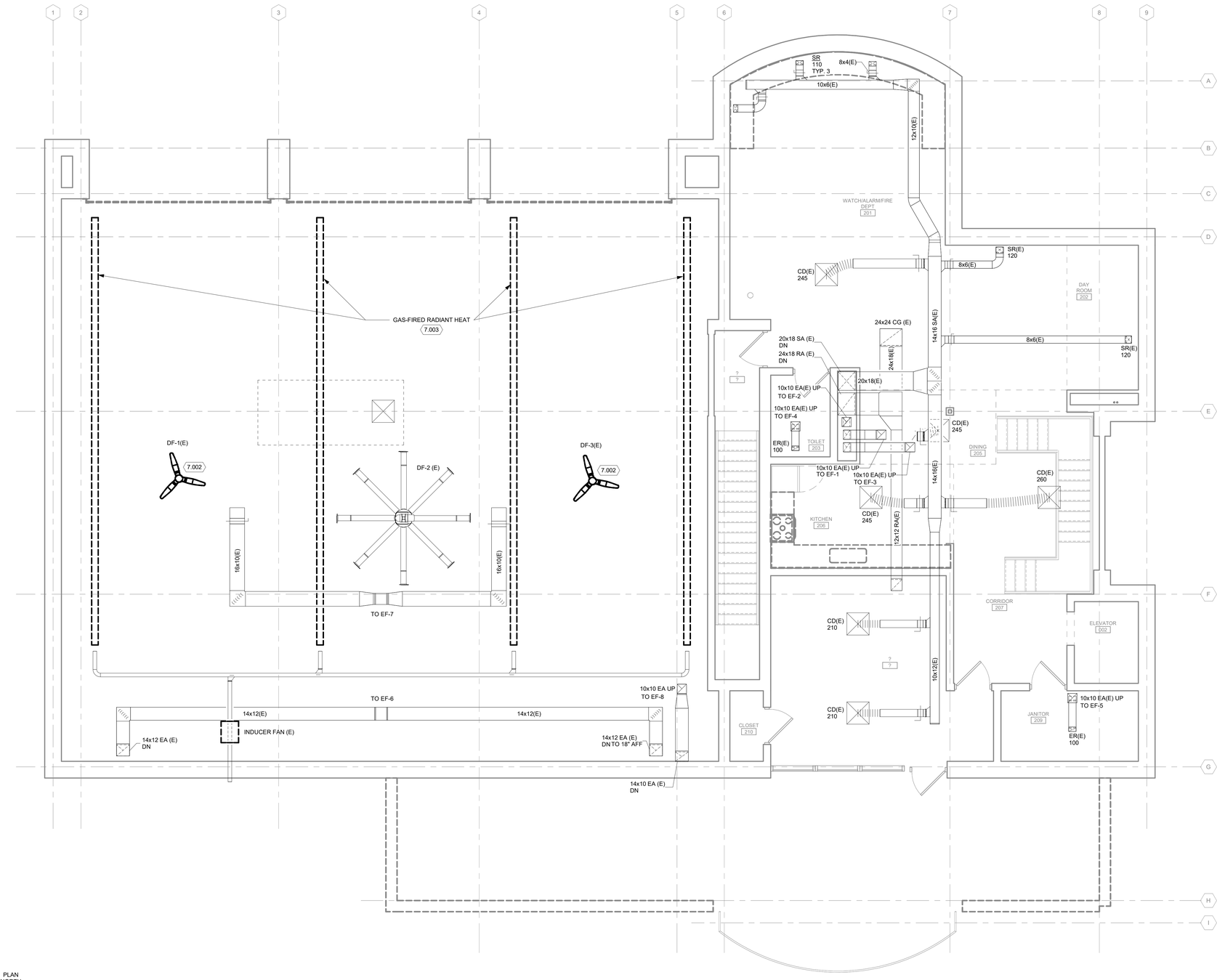
SHEET CONTENTS
FIRST FLOOR HVAC DEMOLITION PLAN

SHEET NO.:

MD101



TRUE NORTH PLAN NORTH

1 SECOND FLOOR HVAC DEMOLITION PLAN

1/4" = 1'-0"

GENERAL HVAC DEMOLITION NOTES

1. COMPLETELY DEMOLISH ALL EXISTING DUCTWORK AS SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED ACCESSORIES, INSULATION, HANGER SUPPORTS, ETC. FOR REMAINING DUCT SYSTEM. PLUG OR CAP ALL OPENINGS CREATED BY DUCT DEMOLITION. TEST DUCTWORK AS SPECIFIED, AND INSULATE OR PAINT SAME AS NEW WORK. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
2. COMPLETELY DEMOLISH ALL EXISTING EQUIPMENT AS SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED ACCESSORIES, INSULATION, HANGERS, SUPPORTS, BASES, CONTROLS, ETC. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
3. DELIVER INDICATED EQUIPMENT TO OWNER'S DESIGNATED STORAGE SPACE ON SITE, PLUG OR CAP ALL EQUIPMENT OPENINGS TO PREVENT DIRT AND MOISTURE FROM ENTERING EQUIPMENT.
4. REINSTALL INDICATED EQUIPMENT, SAME AS NEW WORK, IN NEW LOCATION WHERE INDICATED. COMPLETELY CLEAN AND RESTORE EQUIPMENT TO GOOD OPERATING CONDITION.
5. INSTALL TEMPORARY COVERS OVER EXISTING EXTERIOR ENVELOPE OPENINGS CREATED BY REMOVED EQUIPMENT/DUCT. COVER SHALL BE WATERTIGHT, AND MEET OSHA AND OWNER REQUIREMENTS. COMPLETELY REMOVE TEMPORARY COVER WHEN OPENINGS ARE PATCHED TO FINAL CONDITION. REPAIR ANY DAMAGE TO EXISTING BUILDING COMPONENTS CAUSED BY TEMPORARY COVER.
6. WHERE BRANCH DUCTWORK IS SHOWN TO BE DEMOLISHED BACK TO THE MAIN DUCT AND THE EXISTING MAIN DUCT OPENING IS NOT TO BE RE-USED, CAP AND SEAL THE MAIN DUCT BRANCH OPENING AIRTIGHT.

KEYED NOTES

7.002 DEMO DESTRATIFICATION FAN.

7.003 DISCONNECT THE GAS LINES TO THE GAS-FIRED RADIANT HEATING ELEMENTS BEFORE DEMOLITION, TO BE RECONNECTED TO NEW RADIANT HEATING ELEMENTS IN CONSTRUCTION.

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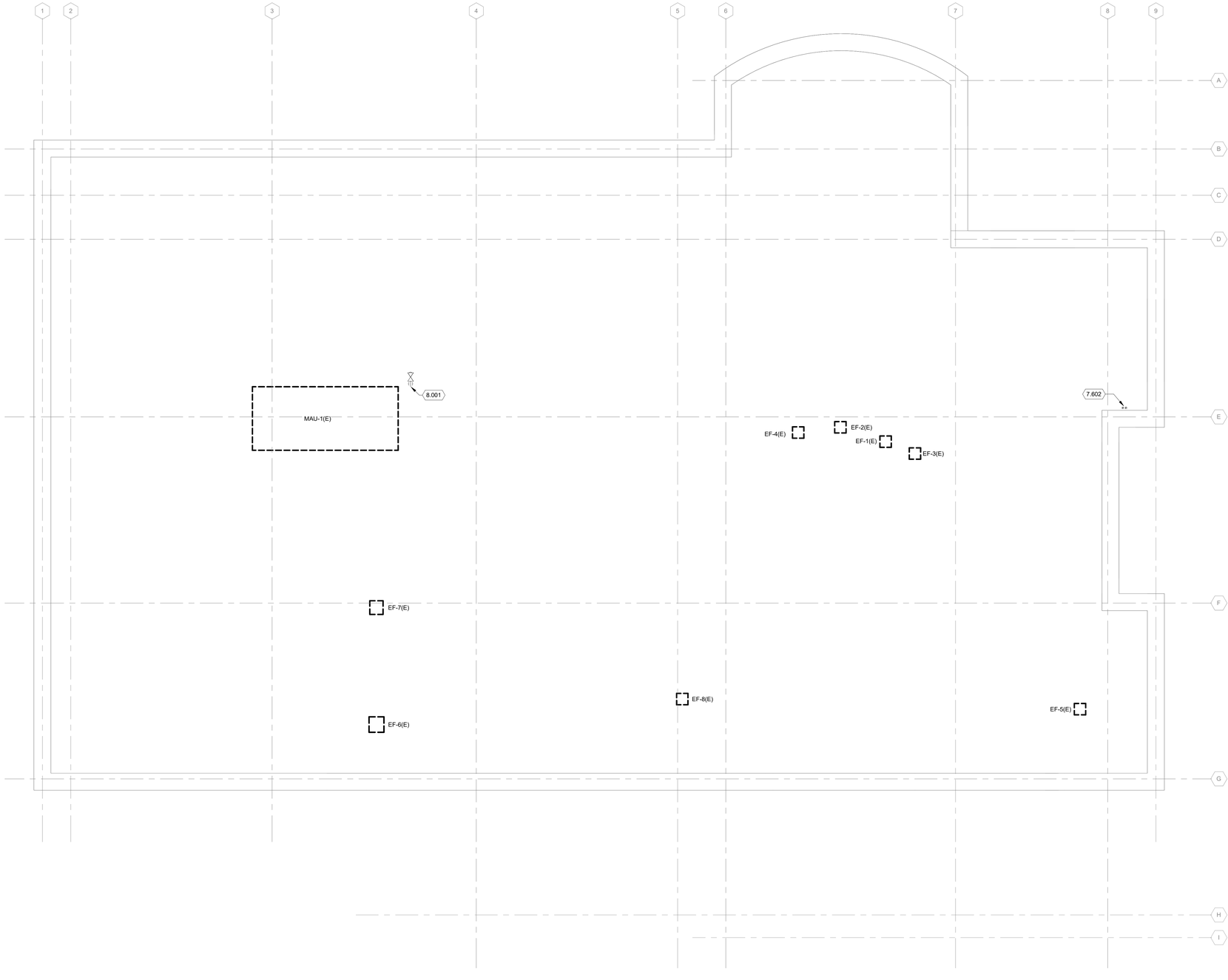
SHEET CONTENTS
SECOND FLOOR HVAC DEMOLITION PLAN

SHEET NO.:

MD102



TRUE NORTH PLAN NORTH

1 ROOF MECHANICAL PLAN

1/4" = 1'-0"

GENERAL HVAC DEMOLITION NOTES

1. COMPLETELY DEMOLISH ALL EXISTING DUCTWORK AS SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED ACCESSORIES, INSULATION, HANGER SUPPORTS, ETC. FOR REMAINING DUCT SYSTEM. PLUG OR CAP ALL OPENINGS CREATED BY DUCT DEMOLITION. TEST DUCTWORK AS SPECIFIED, AND INSULATE OR PAINT SAME AS NEW WORK. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
2. COMPLETELY DEMOLISH ALL EXISTING EQUIPMENT AS SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED ACCESSORIES, INSULATION, HANGERS, SUPPORTS, BASES, CONTROLS, ETC. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
3. DELIVER INDICATED EQUIPMENT TO OWNER'S DESIGNATED STORAGE SPACE ON SITE, PLUG OR CAP ALL EQUIPMENT OPENINGS TO PREVENT DIRT AND MOISTURE FROM ENTERING EQUIPMENT.
4. REINSTALL INDICATED EQUIPMENT, SAME AS NEW WORK, IN NEW LOCATION WHERE INDICATED. COMPLETELY CLEAN AND RESTORE EQUIPMENT TO GOOD OPERATING CONDITION.
5. INSTALL TEMPORARY COVERS OVER EXISTING EXTERIOR ENVELOPE OPENINGS CREATED BY REMOVED EQUIPMENT/DUCT. COVER SHALL BE WATERTIGHT, AND MEET OSHA AND OWNER REQUIREMENTS. COMPLETELY REMOVE TEMPORARY COVER WHEN OPENINGS ARE PATCHED TO FINAL CONDITION. REPAIR ANY DAMAGE TO EXISTING BUILDING COMPONENTS CAUSED BY TEMPORARY COVER.
6. WHERE BRANCH DUCTWORK IS SHOWN TO BE DEMOLISHED BACK TO THE MAIN DUCT AND THE EXISTING MAIN DUCT OPENING IS NOT TO BE RE-USED, CAP AND SEAL THE MAIN DUCT BRANCH OPENING AIRTIGHT.

GENERAL PIPING DEMOLITION NOTES

1. COMPLETELY DEMOLISH ALL INDICATED EXISTING PIPING SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED PIPING, VALVES, INSULATION, HANGERS, SUPPORTS, BASES, CONTROLS, ETC. FOR REMAINING PIPING SYSTEMS. PLUG OR CAP ALL OPENINGS CREATED BY PIPING DEMOLITION. TEST PIPING SYSTEMS AS SPECIFIED, AND INSULATE OR PAINT SAME AS NEW WORK. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
2. DELIVER INDICATED EQUIPMENT TO OWNER'S DESIGNATED STORAGE SPACE ON SITE. PLUG OR CAP ALL EQUIPMENT OPENINGS TO PREVENT DIRT AND MOISTURE FROM ENTERING EQUIPMENT.
3. WHERE PIPES ARE REMOVED AND NOT RE-CONNECTED, REMOVE PIPE BACK TO NEXT BRANCH THAT IS TO REMAIN. INSTALL CAPS OR PLUGS ON OPENINGS. PRIME, PAINT, AND INSULATE DISTURBED PIPE SAME AS SPECIFIED FOR NEW WORK.
4. REINSTALL INDICATED EQUIPMENT, SAME AS NEW WORK, IN NEW LOCATION WHERE INDICATED. COMPLETELY CLEAN AND RESTORE EQUIPMENT TO GOOD OPERATING CONDITION.
5. ABANDON IN PLACE UNDERGROUND PIPES SHOWN ON DRAWINGS AS PHANTOM.
6. WHERE PIPES ARE ROUTED INSIDE CMU WALLS, PIPE MAY BE ABANDONED PIPE IN PLACE. REMOVE PIPE TO 1" INSIDE WALL AT BOTH ENDS.
7. WHERE PIPES PASS THROUGH FLOOR SLABS, SAW-CUT SLAB AND REMOVE CONCRETE TO MINIMUM EXTENT NECESSARY TO GAIN ACCESS BELOW SLAB. REMOVE PIPE DOWN TO HORIZONTAL PIPING BELOW FLOOR. SEAL AND CAP ABANDONED PIPE ENDS.
8. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL TRADES. PATCH EXISTING ROOFS, WALLS, AND FLOORS DISTURBED BY DEMOLITION. RESTORE TO MATCH CONDITION OF ORIGINAL SURROUNDING SURFACES.

KEYED NOTES

7.602 EXISTING FLUE PIPES FROM MECH. ROOM

8.001 DISCONNECT GAS PIPING AND PREPARE TO CONNECT WITH NEW EQUIPMENT AS SHOWN ON NEW WORK PLAN.

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RAED A. SALEM
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ROCKFORD, IL
PROFESSIONAL ENGINEER
1-22-2026

LA CROSSE REGIONAL AIRPORT REHABILITATE ARFF BUILDING

2841 Fanta Reed Rd
La Crosse, WI 54603

ISSUED

M&H NO.: 2309930-201676.01
DATE: 01/23/2026
DESIGNED BY: LB
DRAWN BY: LB
CHECKED BY: RS

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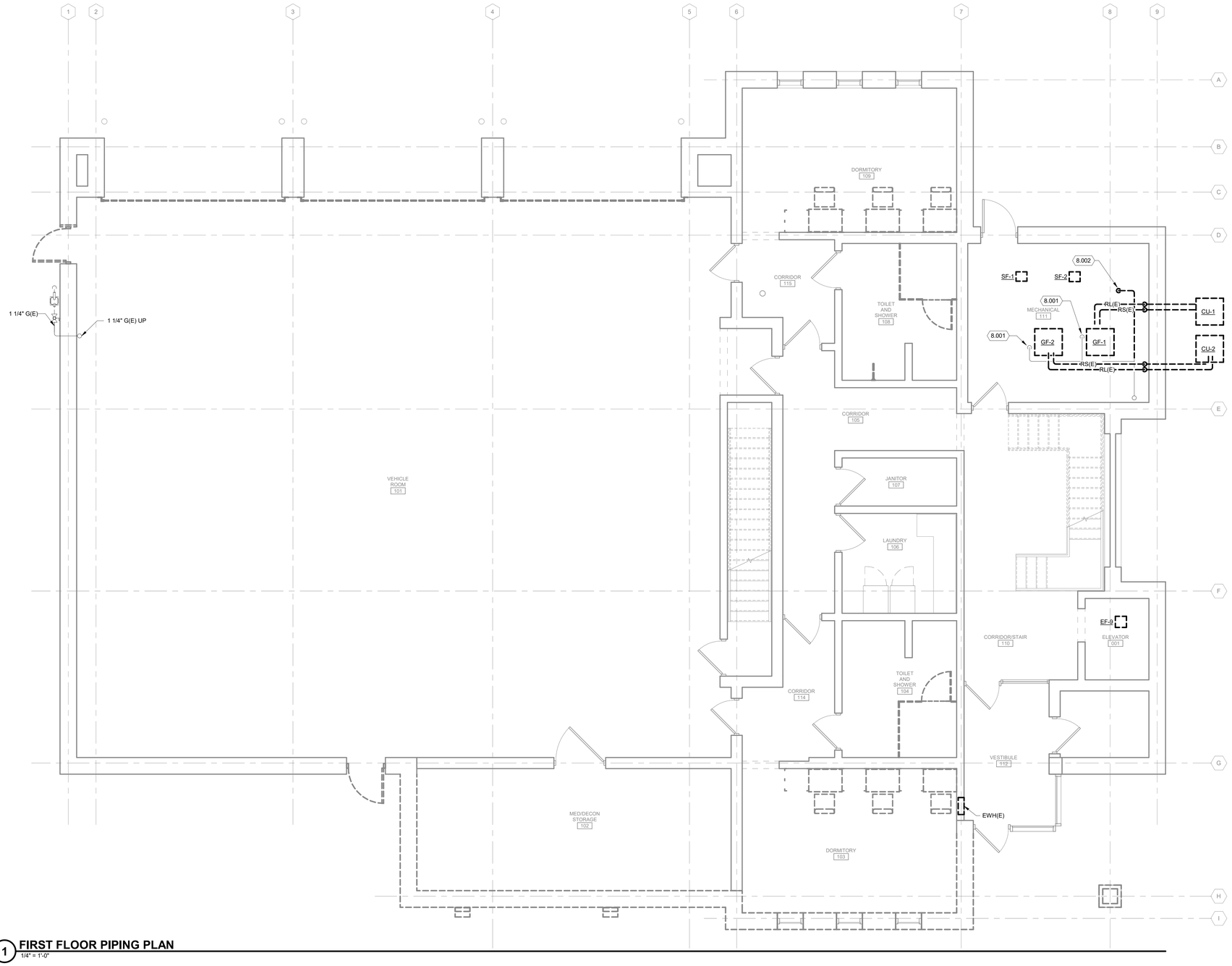
SHEET CONTENTS
ROOF MECHANICAL DEMOLITION PLAN

SHEET NO.:

MD103



TRUE NORTH PLAN NORTH

1 FIRST FLOOR PIPING PLAN

1/4" = 1'-0"

GENERAL PIPING DEMOLITION NOTES

1. COMPLETELY DEMOLISH ALL INDICATED EXISTING PIPING SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED PIPING, VALVES, INSULATION, HANGERS, SUPPORTS, BASES, CONTROLS, ETC. FOR REMAINING PIPING SYSTEMS. PLUG OR CAP ALL OPENINGS CREATED BY PIPING DEMOLITION. TEST PIPING SYSTEMS AS SPECIFIED, AND INSULATE OR PAINT SAME AS NEW WORK. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
2. DELIVER INDICATED EQUIPMENT TO OWNER'S DESIGNATED STORAGE SPACE ON SITE, PLUG OR CAP ALL EQUIPMENT OPENINGS TO PREVENT DIRT AND MOISTURE FROM ENTERING EQUIPMENT.
3. WHERE PIPES ARE REMOVED AND NOT RE-CONNECTED, REMOVE PIPE BACK TO NEXT BRANCH THAT IS TO REMAIN. INSTALL CAPS OR PLUGS ON OPENINGS. PRIME, PAINT, AND INSULATE DISTURBED PIPE SAME AS SPECIFIED FOR NEW WORK.
4. REINSTALL INDICATED EQUIPMENT, SAME AS NEW WORK, IN NEW LOCATION WHERE INDICATED. COMPLETELY CLEAN AND RESTORE EQUIPMENT TO GOOD OPERATING CONDITION.
5. ABANDON IN PLACE UNDERGROUND PIPES SHOWN ON DRAWINGS AS PHANTOM.
6. WHERE PIPES ARE ROUTED INSIDE CMU WALLS, PIPE MAY BE ABANDONED PIPE IN PLACE. REMOVE PIPE TO 1" INSIDE WALL AT BOTH ENDS.
7. WHERE PIPES PASS THROUGH FLOOR SLABS, SAW-CUT SLAB AND REMOVE CONCRETE TO MINIMUM EXTENT NECESSARY TO GAIN ACCESS BELOW SLAB. REMOVE PIPE DOWN TO HORIZONTAL PIPING BELOW FLOOR. SEAL AND CAP ABANDONED PIPE ENDS.
8. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL TRADES. PATCH EXISTING ROOFS, WALLS, AND FLOORS DISTURBED BY DEMOLITION. RESTORE TO MATCH CONDITION OF ORIGINAL SURROUNDING SURFACES.

KEYED NOTES

8.001 DISCONNECT GAS PIPING AND PREPARE TO CONNECT WITH NEW EQUIPMENT AS SHOWN ON NEW WORK PLAN.

8.002 DISCONNECT GAS PIPING TO ELECTRICAL GENERATOR AND REMOVE PIPE BACK TO MAIN AS SHOWN.

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SHEET CONTENTS
FIRST FLOOR PIPING DEMOLITION PLAN

SHEET NO.:

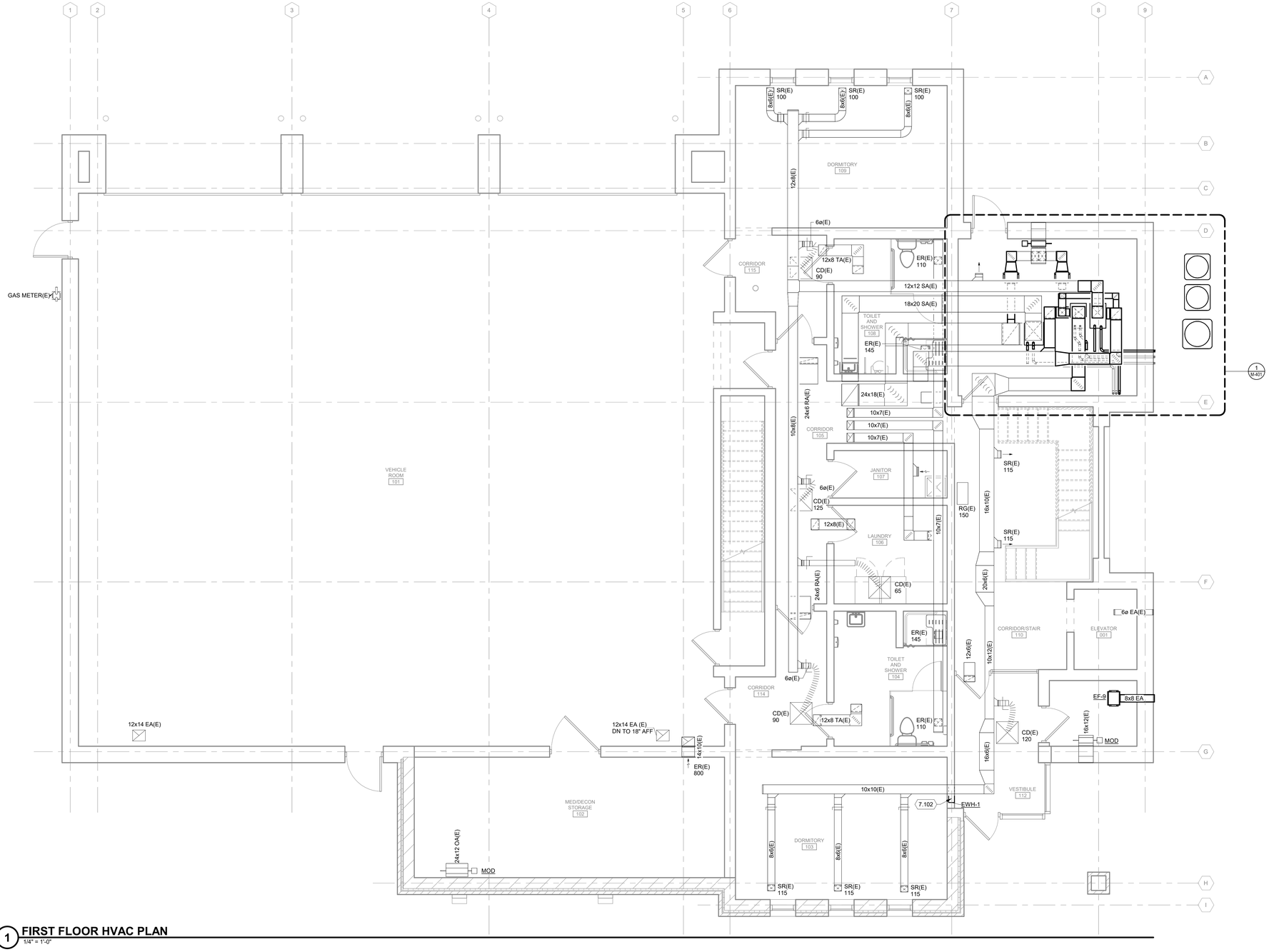
MD131

GENERAL HVAC NOTES

1. BALANCE ALL EXISTING DEVICES TO SHOWN AIR FLOW QUANTITIES.

KEYED NOTES

7.102 ENLARGE/PARTIALLY INFILL WALL OPENING TO ALLOW FOR NEW HEATER INSTALLATION. PAINT/FINISH SURFACE TO MATCH ADJACENT.



TRUE NORTH PLAN NORTH

1 **FIRST FLOOR HVAC PLAN**

1/4" = 1'-0"

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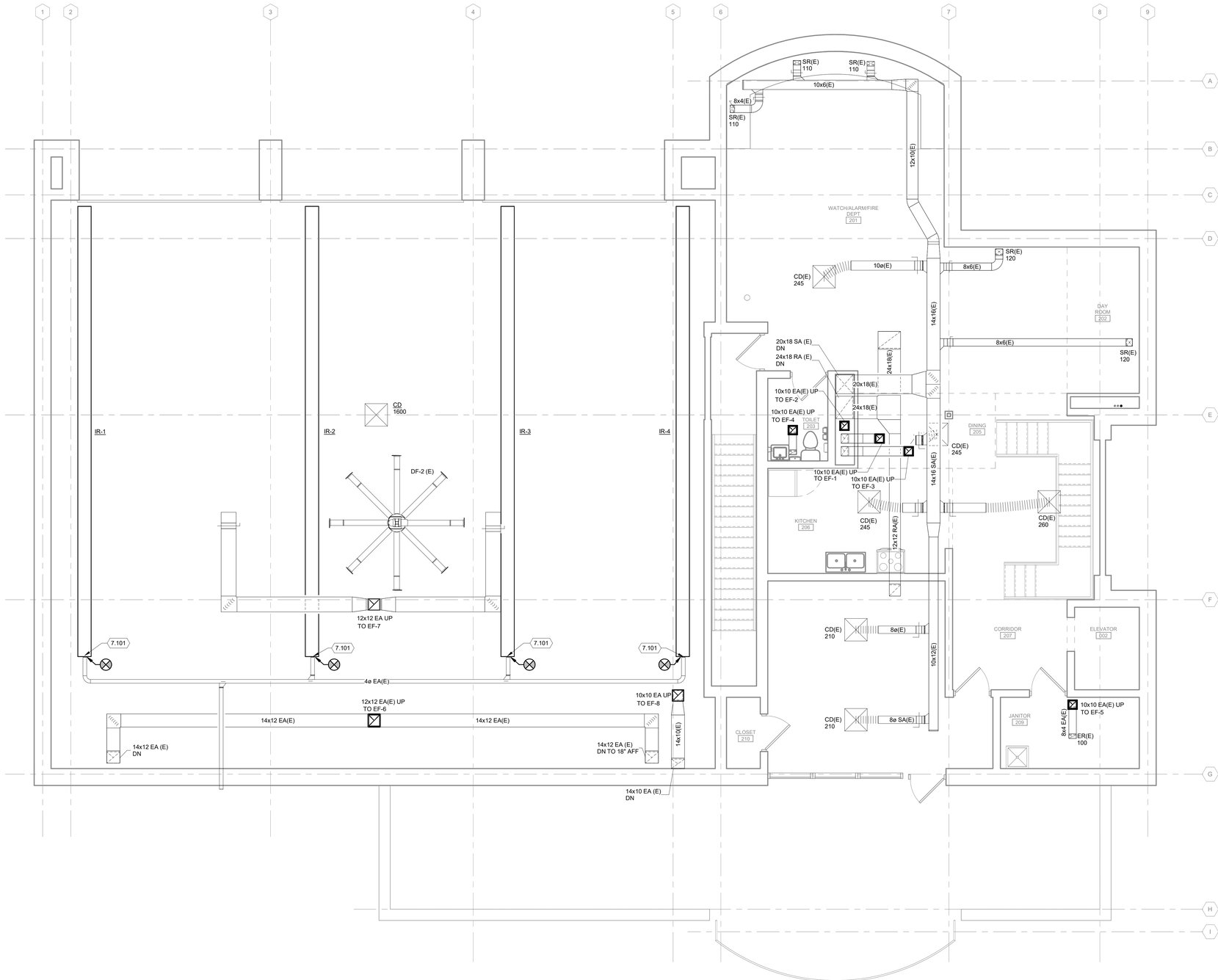
SHEET CONTENTS
FIRST FLOOR HVAC PLAN

SHEET NO.:

M-101



TRUE NORTH PLAN NORTH

1 **SECOND FLOOR HVAC PLAN**

1/4" = 1'-0"

GENERAL HVAC NOTES

1. BALANCE ALL EXISTING DEVICES TO SHOWN AIR FLOW QUANTITIES.

KEYED NOTES

7.101 CONNECT RADIANT HEATER FLUE EXHAUST TO EXISTING SYSTEM. EXTEND FLUE DUCT AS NEEDED.

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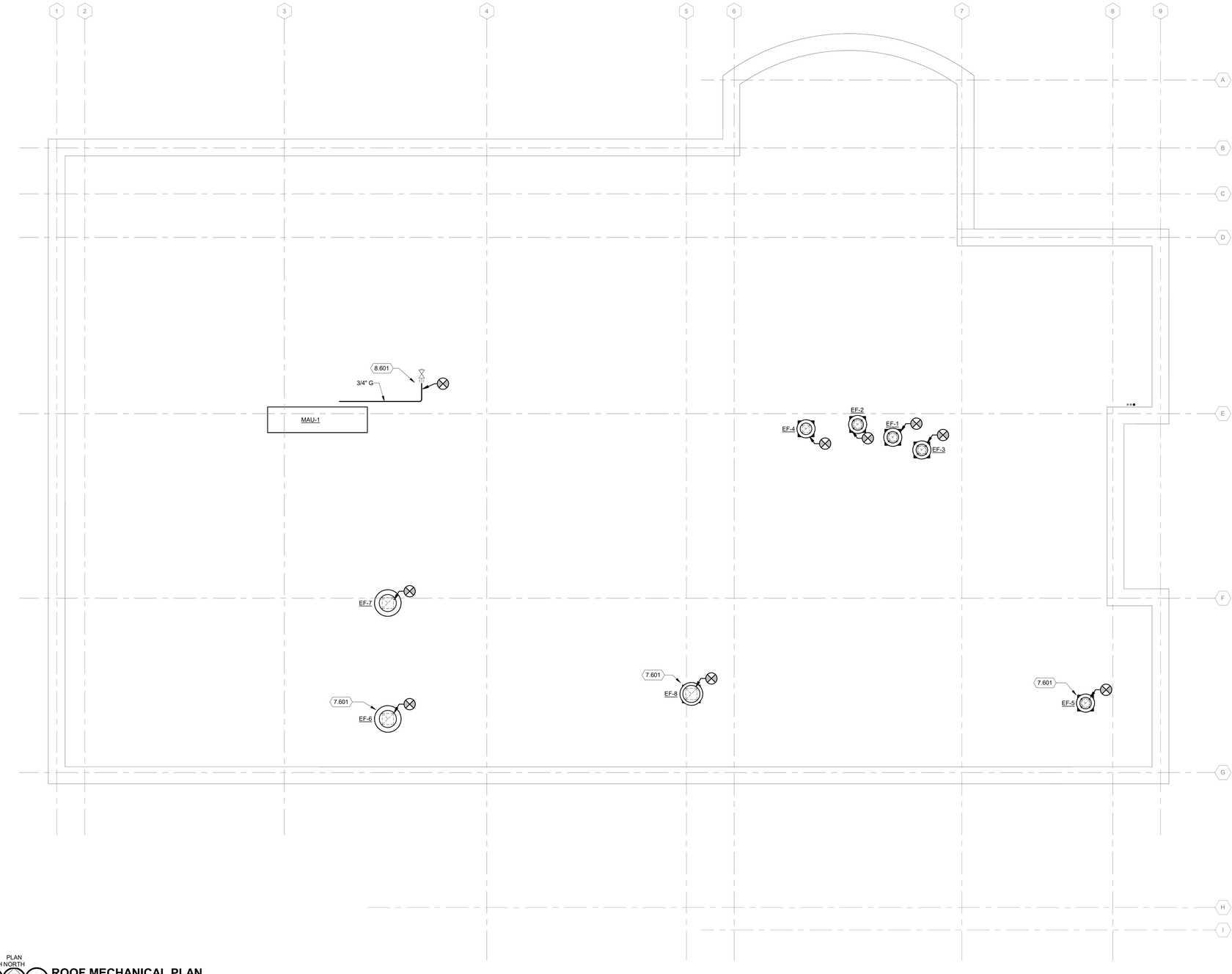
SHEET CONTENTS
SECOND FLOOR HVAC PLAN

SHEET NO.:

M-102



TRUE NORTH PLAN NORTH

ROOF MECHANICAL PLAN

1/4" = 1'-0"

GENERAL HVAC NOTES

1. BALANCE ALL EXISTING DEVICES TO SHOWN AIR FLOW QUANTITIES.

KEYED NOTES

7.601 PROVIDE & INSTALL FALL PROTECTION TIE DOWN DEVICES ON ROOF NEXT TO ROOFTOP EQUIPMENT LOCATED WITHIN 10'-0" FROM ROOF EDGE.

8.601 EXTEND NEW 3/4" GAS PIPING TO NEW MAU-1 AS SHOWN. REPLACE EXISTING ISOLATION VALVE AND REGULATOR.

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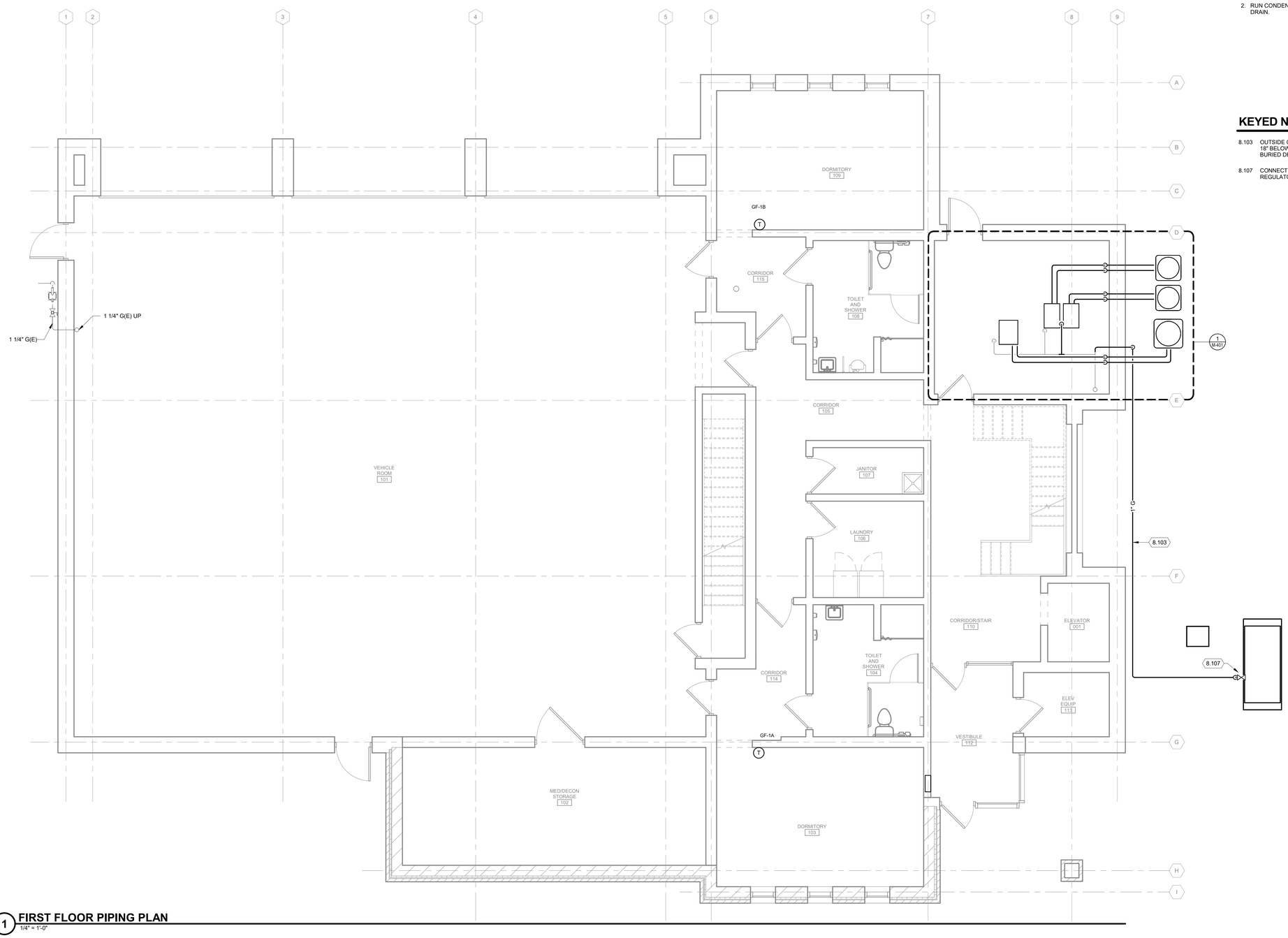
SHEET CONTENTS
ROOF MECHANICAL PLAN

SHEET NO.:

M-103



TRUE NORTH PLAN NORTH

1 FIRST FLOOR PIPING PLAN

1/4" = 1'-0"

GENERAL PIPING NOTES

1. INSTALL DRAIN VALVES AT ALL LOW POINTS IN PIPING SYSTEM AND ELSEWHERE AS REQUIRED FOR SYSTEM DRAINAGE. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING, AT HEAT-TRANSFER COILS, AND ELSEWHERE AS REQUIRED FOR SYSTEM AIR VENTING.
2. RUN CONDENSATE PIPING FROM ALL COOLING COILS TO NEAREST FLOOR DRAIN.

KEYED NOTES

8.103 OUTSIDE GAS PIPING TO GENERATOR SHALL BE DIRECT BURIED MINIMUM 18" BELOW GRADE. PROVIDE TRACING CABLE AND WARNING TAPE. EXACT BURIED DEPTH SHALL BE COORDINATED WITH UTILITY CO.

8.107 CONNECT NEW GAS PIPING TO GENERATOR. PROVIDE NEW PRESSURE REGULATOR, SHUT OFF VALVE, AND 6" LONG DIRT LEG.

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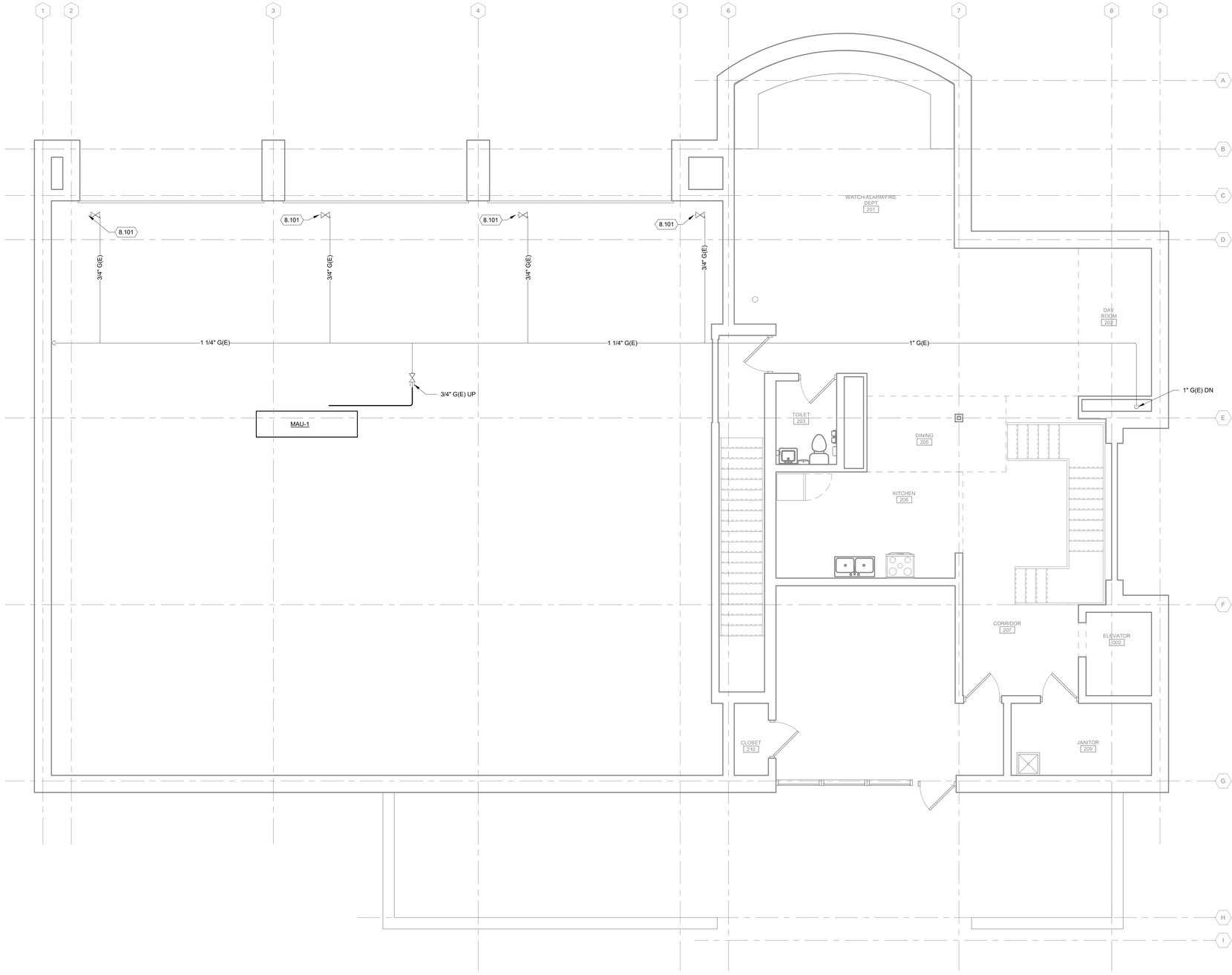
SHEET CONTENTS
FIRST FLOOR PIPING PLAN

SHEET NO.:

M-131



TRUE NORTH PLAN NORTH

1 SECOND FLOOR PIPING PLAN

1/4" = 1'-0"

GENERAL PIPING NOTES

1. INSTALL DRAIN VALVES AT ALL LOW POINTS IN PIPING SYSTEM AND ELSEWHERE AS REQUIRED FOR SYSTEM DRAINAGE. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING, AT HEAT-TRANSFER COILS, AND ELSEWHERE AS REQUIRED FOR SYSTEM AIR VENTING.
2. RUN CONDENSATE PIPING FROM ALL COOLING COILS TO NEAREST FLOOR DRAIN.

KEYED NOTES

8.101 RECONNECT EXISTING GAS PIPING TO NEW EQUIPMENT. ADJUST PIPE DROP AS NEEDED & PROVIDE NEW SHUT OFF VALVE AND 6" LONG DIRT LEG. EXISTING PRESSURE REGULATOR VALVE TO REMAIN.

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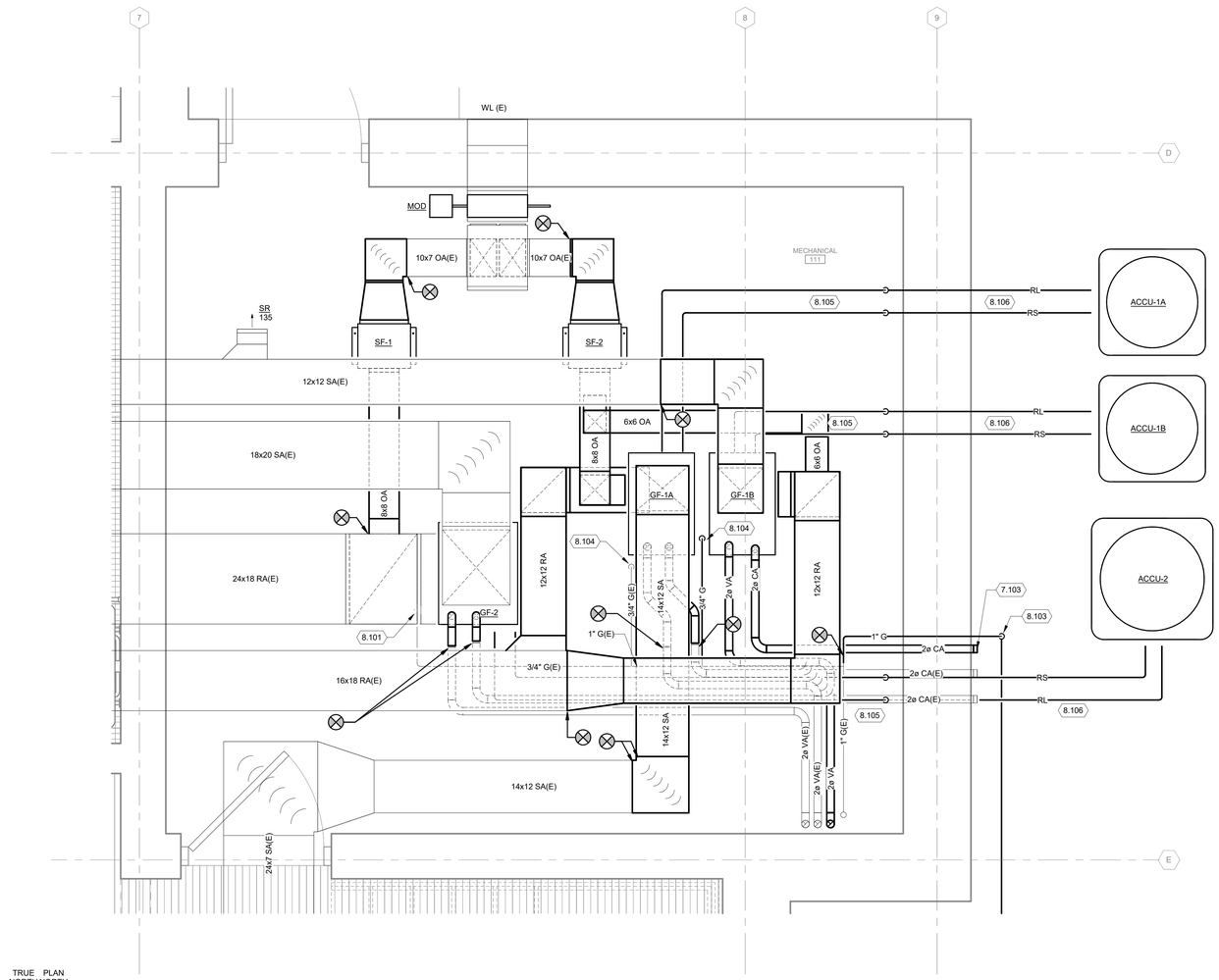
SHEET CONTENTS
SECOND FLOOR PIPING PLAN

SHEET NO.:
M-132



TRUE NORTH PLAN NORTH

1 MECHANICAL ROOM - ENLARGED PLAN

3/4" = 1'-0"

GENERAL HVAC NOTES

1. BALANCE ALL EXISTING DEVICES TO SHOWN AIR FLOW QUANTITIES.

GENERAL PIPING NOTES

1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE NEW CONDENSATE PIPING AND RUN TO NEAREST FLOOR DRAIN.

KEYED NOTES

7.103 CORE NEW OPENING IN EXISTING WALL TO INSTALL NEW CA DUCT.

8.101 RECONNECT EXISTING GAS PIPING TO NEW EQUIPMENT. ADJUST PIPE DROP AS NEEDED & PROVIDE NEW SHUT OFF VALVE AND 6" LONG DIRT LEG. EXISTING PRESSURE REGULATOR VALVE TO REMAIN.

8.103 OUTSIDE GAS PIPING TO GENERATOR SHALL BE DIRECT BURIED MINIMUM 18" BELOW GRADE. PROVIDE TRACING CABLE AND WARNING TAPE. EXACT BURIED DEPTH SHALL BE COORDINATED WITH UTILITY CO.

8.104 EXTEND NEW 3/4" GAS PIPING TO NEW FURNACE. PROVIDE NEW PRESSURE REGULATOR, SHUT OFF VALVE, AND 6" LONG DIRT LEG.

8.105 REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED PER MANUFACTURER INSTRUCTIONS.

8.106 EXTERIOR REFRIGERANT PIPING INSULATION SHALL BE PROTECTED AGAINST UV.

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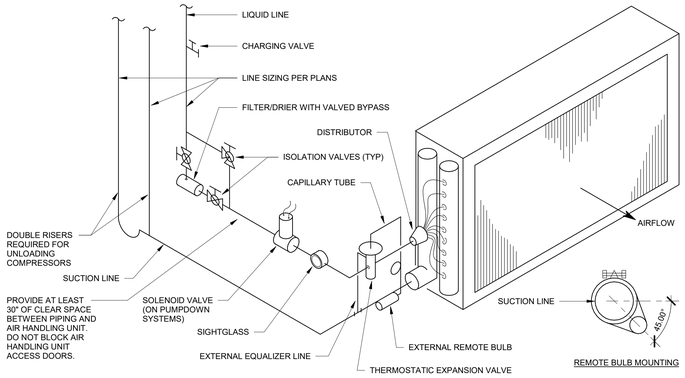
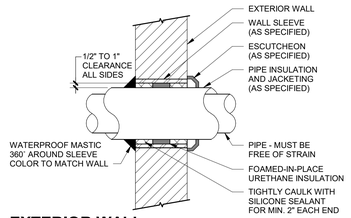
SHEET CONTENTS
ENLARGED PLANS AND SECTIONS

SHEET NO.:

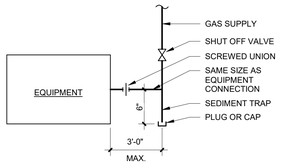
M-401



5 REFRIGERANT COIL PIPING DETAIL
NO SCALE

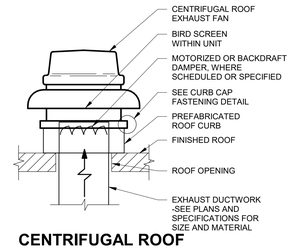


6 EXTERIOR WALL INSULATED PIPE PENETRATION
NO SCALE

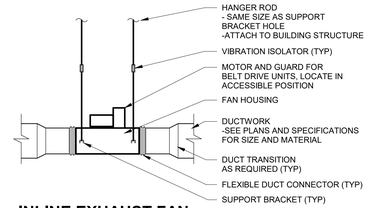


NOTE:
UNLESS OTHERWISE INDICATED, SEE PLANS AND SPECIFICATIONS FOR PIPE SIZE AND MATERIAL.

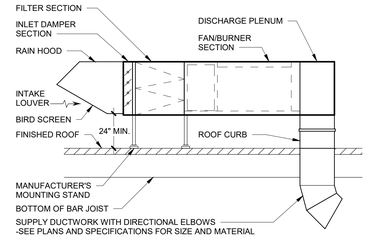
7 EQUIPMENT GAS CONNECTION (TYP)
NO SCALE



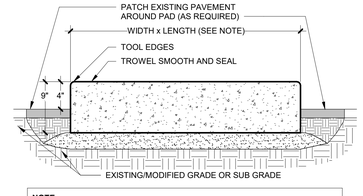
1 CENTRIFUGAL ROOF EXHAUST FAN ON FLAT ROOF
NO SCALE



2 INLINE EXHAUST FAN WITH DUCTED INLET/OUTLET
NO SCALE



3 ROOF MOUNTED MAKEUP AIR UNIT (MAU) ELEVATION
NO SCALE



NOTE:
PAD LENGTH AND WIDTH TO EXCEED EQUIPMENT SIZE BY 4" ALL AROUND.

4 EXTERIOR EQUIPMENT PAD
NO SCALE

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SHEET CONTENTS
MECHANICAL DETAILS

SHEET NO.:
M-501

INFRARED HEATER (IR) SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	TYPE	HEATER LENGTH (FT)	RADIANT HEATING CAP. (MBH)	FUEL INPUT (CFH)	FUEL INLET PRESSURE (IN WC)	FUEL TYPE	ELECTRICAL (VOLTS/PH)	ACCESSORIES	(1) MTG. HEIGHT (FT)	WEIGHT (LB)	LOCATION	REMARKS
IR-1	REZNOR, VZT-175	2	40	175	175	7"	NG	115/1	1,2,3,4,5	6'-10"	161	RM 101	
IR-2	REZNOR, VZT-175	2	40	175	175	7"	NG	115/1	1,2,3,4,5	6'-10"	161	RM 101	
IR-3	REZNOR, VZT-175	2	40	175	175	7"	NG	115/1	1,2,3,4,5	6'-10"	161	RM 101	
IR-4	REZNOR, VZT-175	2	40	175	175	7"	NG	115/1	1,2,3,4,5	6'-10"	161	RM 101	

TYPE		ACCESSORIES	
1	U-TUBE	1	AIR INTAKE AND VENT PIPING
2	STRAIGHT TUBE	2	FLEXIBLE GAS CONNECTOR
3	PRESSURIZED	3	HANGING HARDWARE
4	VACUUM VENTED	4	THERMOSTAT WITH RELAY
		5	VACUUM FAN VENT ADAPTOR

REMARKS:

(1) MOUNTING HEIGHT IS FROM TOP OF UNIT TO FINISHED FLOOR AND IS APPROXIMATE. INSTALLING CONTRACTOR SHALL FIELD VERIFY ALL MANUFACTURER REQUIRED CLEARANCES.

(2) INSTALL REFLECTORS AT 45° ANGLE AWAY FROM WALL.

FORCED AIR FURNACE (FAF) SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	TYPE	AIR FLOW (CFM) SUPPLY	AIR FLOW (CFM) OUTDOOR	ESP (IN WC)	FAN MOTOR SIZE (HP)	FAN SPEED (RPM)	ELECTRICAL (VOLTS/PH)	HEATING FUEL TYPE	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	HEATING AFUE (%)	COOLING TOTAL (MBH)	COOLING SENS. (MBH)	COOLING EAT (°F) DB	COOLING EAT (°F) WB	COOLING LAT (°F) DB	COOLING LAT (°F) WB	(1) ASSOC. ACCU	(2) ACCESSORIES	WEIGHT (LB)	LOCATION	REMARKS
GF-1A	LENNOX, ML193UH070XE36B	VU	800	150	0.50	0.5	-	120/1	NG	66.0	63.0	93.0	24.0	-	78.1	64.9	-	-	ACCU-1A	1,4,5,7,12	127	MECH. RM	
GF-1B	LENNOX, ML193UH070XE36B	VU	800	150	0.50	0.5	-	120/1	NG	66.0	63.0	93.0	24.0	-	78.1	64.9	-	-	ACCU-1A	1,4,5,7,12	127	MECH. RM	
GF-2	LENNOX, ML193UH110XE60C	VU	2,100	300	0.50	1.0	-	120/1	NG	110.0	105.0	93.0	60.0	-	77.3	64.4	-	-	ACCU-2	1,4,5,7,12	158	MECH. RM	

TYPE		ACCESSORIES					
VU	VERTICAL UPFLOW	1	FILTER RACK	5	COOLING COIL CABINET	9	DOWNFLOW SUBBASE
VD	VERTICAL DOWNFLOW	2	ELECTRONIC AIR CLEANER	6	NON-PROGRAMMABLE THERMOSTAT	10	RETURN AIR PLENUM
HU	HORIZONTAL UPFLOW	3	MECHANICAL AIR CLEANER	7	PROGRAMMABLE THERMOSTAT	11	GAS CONVERSION KIT
HD	HORIZONTAL DOWNFLOW	4	HUMIDIFIER	8	TWINNING KIT	12	VENT AND COMBUSTION AIR PIPING WITH TERMINATIONS

REMARKS:

(1) SEE AIR COOLED CONDENSING UNIT (ACCU) SCHEDULE.

(2) SEE SPECIFICATION SECTION 235400 - FURNACES, FOR ADDITIONAL INFORMATION.

MAKE-UP AIR UNIT (MAU) SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	TYPE	FIRE TYPE	AIR FLOW (CFM) HIGH SPEED SUPPLY	AIR FLOW (CFM) LOW SPEED SUPPLY	AIR FLOW (CFM) (1) MIN. OUTDOOR	SUPPLY FAN ESP (IN WC)	SUPPLY FAN MOTOR ENCL. TYPE	SUPPLY FAN MOTOR POWER (HP)	MIN. INLET TEMP. (°F)	HEATER INPUT (MBH)	HEATER OUTPUT (MBH)	HEATER HX MAT.	HEATER STAGES	HEATER VENT TYPE	COOLING COIL TAG	FILTER TYPE	ELECTRICAL VOLTS/PH	ELECTRICAL FLA	(2) INTERLOCK WITH	(4) ACCESSORIES	(3) MTG. HEIGHT (FT)	WEIGHT (LB)	LOCATION	REMARKS
MAU-1	CAPTIVEAIRE, A1-D.250-15D	O	DF	1,600	1,600	1600	0.25	ODP	1.0		172.8	172.8				-		208/3	-			ROOF	555.0	ROOF	

TYPE		FIRE TYPE		MOTOR ENCLOSURE TYPE		HEAT EXCHANGER MATERIAL		HEATER STAGES		VENT TYPE		FILTER TYPE		ACCESSORIES			
I	INDOOR	DF	DIRECT	ODP	OPEN DRIP PROOF	AS	ALUMINIZED STEEL	1	1-STAGE	G	GRAVITY	1W	1" WASHABLE	1	INTAKE HOOD	8	THERMOSTAT
O	OUTDOOR	IF	INDIRECT	TEFC	TOTALLY ENCLOSED, FAN COOLED	SS	STAINLESS STEEL	2	2-STAGE	FD	FORCED DRAFT	2W	2" WASHABLE	2	ROOF CURB	9	UNIT-MOUNTED CONTROL PANEL
V	VERTICAL			XPL	EXPLOSION PROOF			3	3-STAGE	SC	SEALED COMBUSTION	1T	1" THROWAWAY	3	DISCONNECT SWITCH	10	REMOTE CONTROL PANEL
H	HORIZONTAL							4	4-STAGE			2T	2" THROWAWAY	4	INLET DAMPER	11	7-DAY TIME CLOCK
								MOD, XX	MODULATING TO XX%					5	RETURN AIR DAMPER	12	24-HOUR TIME CLOCK
														6	FREEZESTAT	13	DDC INTERFACE
														7	CLOGGED FILTER SWITCH	14	DISCHARGE GRILLE

REMARKS:

(1) AT HIGH SPEED.

(2) SEE SEQUENCE OF OPERATION FOR DETAILS.

(3) MOUNTING HEIGHT SHALL BE FROM FINISHED FLOOR TO BOTTOM OF UNIT.

(4) SEE SPECIFICATION FOR OTHER ACCESSORIES.

ELECTRIC WALL HEATER (EWH) SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	TYPE	MOUNTING HEIGHT (1) (IN)	CAPACITY BTUH	CAPACITY KW	ELECTRICAL VOLT/PHASE	ELECTRICAL AMPS	HOUSING DIMENSIONS (IN) HEIGHT	HOUSING DIMENSIONS (IN) DEPTH	HOUSING DIMENSIONS (IN) WIDTH	CONTROL	ACCESSORIES	LOCATION	REMARKS
EWH-1	MARKEL, F3423T	2	12	10,239	3.0	208/1	14.4	21.5	4.125	17.5	I		VEST 112	1,2,3

TYPE		CONTROL		ACCESSORIES			
1	COMMERCIAL	I	INTEGRAL THERMOSTAT	1	DISCONNECT SWITCH	4	TAMPER PROOF THERMOSTAT
2	HEAVY DUTY COMMERCIAL	RT	REMOTE THERMOSTAT	2	BLANK AND CORNER SECTIONS	5	RELAY FOR REMOTE THERMOSTAT
				3	THERMOSTAT (NON-TAMPER PROOF)		

REMARKS:

(1) MOUNTING HEIGHT FROM FINISHED FLOOR TO BOTTOM OF UNIT.

(2) MANUFACTURER'S ARCHITECTURAL SERIES DESIGN

(3) MATCH EXISTING SIZE AND INSTALLATION HEIGHT

AIR COOLED CONDENSING UNIT (ACCU) SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	NOM. CAP. (TON)	MIN. EER	MIN. SEER	REF. TYPE	SST (°F)	HOT GAS BYPASS	NO. OF STAGES	AMB. AIR TEMP. (°F) MINIMUM	AMB. AIR TEMP. (°F) MAXIMUM	COMPRESSORS QTY.	COMPRESSORS TYPE	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	(2) MAX. SOUND (DB)	MATCHING EQUIPMENT COOLING COIL	WEIGHT (LB)	LOCATION	REMARKS
ACCU-1A	LENNOX, ML17KC2-036-233	3	-	-	R-454B	-	-	2	-	95	1	SCR	208-230	3	13.6	20.0	-	CX35-24B-6F	188	ON GRADE	
ACCU-1B	LENNOX, ML17KC2-036-233	3	-	-	R-454B	-	-	2	-	95	1	SCR	208-230	3	13.6	20.0	-	CX35-24B-6F	188	ON GRADE	
ACCU-2	LENNOX, ML17KC2-060-233	5	-	-	R4545B	-	-	2	-	95	1	SCR	208-230	3	23.4	40.0	-	CX35-60C-6F	246	ON GRADE	

COMPRESSOR TYPE	
RCP	RECIPROCATING
SCR	SCROLL
SCW	SCREW

REMARKS:

(1) MANUFACTURER SHALL SIZE REFRIGERANT PIPING, VALVES, AND ACCESSORIES FOR PROPER OPERATION OF SYSTEM.

(2) PER ARI STANDARD 320 "SOUND RATING OF LARGE OUTDOOR REFRIGERATING AND AIR-CONDITIONING EQUIPMENT".

EXHAUST FAN (EF) AND SUPPLY FAN (SF) SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	FAN TYPE	AIR FLOW RATE (CFM)	ESP (IN WC)	MOTOR HP	MOTOR BHP	MOTOR TYPE	FAN SPEED (RPM)	DRIVE TYPE	ELECTRICAL (VOLTS/PH)	(2) MTG. HEIGHT (FT)	MAXIMUM SOUND (4) SONES	(1) INTERLOCK WITH	OPENING (IN) LENGTH	OPENING (IN) WIDTH	ACCESSORIES	WEIGHT (LB)	LOCATION	REMARKS
EF-1	GREENHECK, G-080-VG	8	255	0.338	1/10	0.04	ODP	1,395	D	115/60/1	-	7.6	-	12.5	12.5	1, 8, 9, 30	40	ROOF	
EF-2	GREENHECK, G-080-VG	8	255	0.338	1/10	0.04	ODP	1,395	D	115/60/1	-	7.6	-	12.5	12.5	1, 8, 9, 30	40	ROOF	
EF-3	GREENHECK, G-080-VG	8	275	0.346	1/10	0.04	ODP	1,444	D	115/60/1	-	7.6	-	12.5	12.5	1, 8, 9, 30	40	ROOF	
EF-4	GREENHECK, G-070-VG	8	100	0.201	1/15	0.01	ODP	1,097	D	115/60/1	-	5.6	-	10.5	10.5	1, 8, 9, 30	36	ROOF	
EF-5	GREENHECK, G-070-VG	8	150	0.248	1/15	0.01	ODP	1,265	D	115/60/1	-	5.6	-	10.5	10.5	1, 8, 9, 30	36	ROOF	
EF-6	GREENHECK, G-130-VG	8	1,600	1.003	3/4	0.44	ODP	1,572	D	115/60/1	-	17.5	-	14.5	14.5	1, 8, 9, 30	69	ROOF	
EF-7	GREENHECK, G-130-VG	8	1,600	0.878	1/2	0.40	ODP	1,518	D	115/60/1	-	17.5	-	14.5	14.5	1, 8, 9, 30	69	ROOF	
EF-8	GREENHECK, G-100-VG	8	800	0.448	1/4	0.12	ODP	1,281	D	115/60/1	-	12.4	-	14.5	14.5	1, 8, 9, 30	54	ROOF	
EF-9	GREENHECK, SP-A390	2	300	0.200	-	0.04	ODP	1,124	D	115/60/1	9'-8"	5.5	-	-	-	1, 8, 9, 30	24	RM 113	
SF-1	GREENHECK, CSP-A390-VG	4	300	0.250	1/15	0.07	ODP	1,157	D	115/60/1	5'-6"	3.0	GF-2	-	-	8	24	MECH RM	
SF-2	GREENHECK, CSP-A390-VG	4	300	0.250	1/15	0.07	ODP	1,157	D	115/60/1	5'-6"	3.0	GF-1A	-	-	8	24	MECH RM	

FAN TYPE				MOTOR TYPE		INSTALLATION TYPE	
CENTRIFUGAL		AXIAL		ODP	OPEN DRIP PROOF	A	FREE INLET, FREE OUTLET
1	SIDEWALL	8	ROOFTOP DOWNBLAST	TEFC	TOTALLY ENCLOSED FAN COOLED	B	FREE INLET, DUCTED OUTLET
2	INLINE	9	SIDEWALL PROPELLER	XPL	EXPLOSION PROOF	C	DUCTED INLET, FREE OUTLET
3	UTILITY	10	TUBE AXIAL	INV	INVERTER DUTY	D	DUCTED INLET, DUCTED OUTLET
4	CABINET	11	VANE AXIAL	TEAO	TOTALLY ENCLOSED AIR OVER		
5	ROOFTOP UPBLAST	12	MIXED FLOW				
6	ROOFTOP HOODED	13	ROOFTOP FRP UPBLAST				
7	ROOFTOP FILTERED SUPPLY						

ACCESSORIES					
1	GRAVITY BACKDRAFT DAMPER	11	OUTLET WIRE GUARD	21	HOODED WALL CAP
2	MOTORIZED BACKDRAFT DAMPER	12	INLET FILTER GUARD	22	HOODED ROOF CAP
3	WEATHERHOOD	13	MOTOR COVER	23	HINGED ROOF CURB
4	WALL COLLAR	14	HOUSING INSULATION	24	INLET GRILLE
5	MOTOR WIRE GUARD	15	BELT (OSHA) WIRE GUARD	25	BASE MOUNTED VIBRATION ISOLATORS
6	MOTOR (OSHA) WIRE GUARD	16	INLET BELL	26	DUCT ADAPTOR
7	SHUTTER GUARD	17	INLET/OUTLET FLANGES	27	HANGING SPRING ISOLATORS
8	FAN SPEED CONTROLLER	18	INLET VANE DAMPER	28	HANGING NEOPRENE ISOLATORS
9	NON-FUSED DISCONNECT SWITCH	19	EXTENDED LUBE LINES	29	FACTORY INSULATED ANGLED FILTER BOX
10	INLET WIRE GUARD	20	MFR. ROOF CURB	30	CURB ADAPTER

REMARKS:

(1) SEE SPECIFICATION SECTION 230993 - HVAC SEQUENCE OF OPERATION.

(2) MOUNTING HEIGHT IS FROM FINISHED FLOOR LEVEL OF INDICATED ROOM, TO TOP OF FAN OR WALL OPENING.

(3) SOUND POWER LEVEL RATING PER AMCA 301.

(4) LOUDNESS VALUES AT 5 FT IN A HEMISPHERICAL FREE FIELD PER AMCA 301.

(5) VFD RATED FAN MOTOR.

(6) SINGLE SPEED FAN.

(7) TWO-SPEED, TWO WINDING MOTOR.

(8) RELOCATE EXISTING FAN AND ACCESSORIES AS INDICATED ON PLANS AND RE-BALANCE TO SCHEDULED

(9) CLASS___,GROUP___, DIVISION___, EXPLOSION PROOF, AMCA CONSTRUCTION.

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REHABILITATE ARFF BUILDING

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ISSUED

M&H NO.: 2309930-201676.01
DATE: 01/23/2026
DESIGNED BY: LB
DRAWN BY: LB
CHECKED BY: RS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
MECHANICAL SCHEDULES

SHEET NO.:
M-601

ONE-LINE SYMBOLS

- ATO — AUTOMATIC THROW OVER
- NORM / EMER / LOAD — AUTOMATIC TRANSFER SWITCH
- XXA 3P — CIRCUIT BREAKER
- CONTACT - NORMALLY CLOSED
- CONTACT - NORMALLY OPEN
- (#) — CURRENT TRANSFORMER (#) DENOTES QUANTITY
- DPM — DIGITAL POWER METER
- EARTH GROUND
- EPO — EMERGENCY POWER OFF
- XXA 3P — DISCONNECT SWITCH - NON-FUSED
- G / GEN — GENERATOR
- S2 / S1 / L — GENERATOR TERMINATION CABINET
- M — METER
- PANEL XX / RM ## — PANEL
- SPD — SURGE PROTECTIVE DEVICE
- T-XX / RM ## — TRANSFORMER
- UNINTERRUPTIBLE POWER SUPPLY (UPS)
- UTILITY CONNECTION

LUMINAIRE SYMBOLS

- RECESSED LUMINAIRE
- RECESSED TROFFER
- RECESSED LINEAR
- SURFACE ROUND LUMINAIRE
- SURFACE SQUARE LUMINAIRE
- SURFACE LINEAR/INDUSTRIAL LUMINAIRE
- SURFACE COVE STRIP
- PENDANT ROUND LUMINAIRE
- PENDANT SQUARE LUMINAIRE
- PENDANT LINEAR/INDUSTRIAL LUMINAIRE
- WALL SURFACE LUMINAIRE
- WALL RECESSED LUMINAIRE
- WALL SURFACE LINEAR
- WALL RECESSED LINEAR
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- WALL MOUNTED COMBINATION EXIT SIGN/EBU
- EMERGENCY (NEC 700) SHADING MODIFIER

LUMINAIRE CIRCUITRY & CONTROL KEY:

SE A1 1R#a

- LUMINAIRE TYPE
- LOWER CASE LETTER INDICATES SWITCHLEG CONTROL
- (R#) INDICATES CENTRALIZED LOW VOLTAGE RELAY NUMBER (Z#) INDICATES DISTRIBUTED LOW VOLTAGE RELAY NUMBER REFER TO LIGHTING RELAY SCHEDULE(S)
- NUMBER INDICATES BRANCH PANEL CIRCUIT NUMBER
- SE: LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY AND/OR EMERGENCY CIRCUIT UPON LOSS OF POWER. NL: LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.

LUMINAIRE CONTROL SYMBOLS

- S — LINE VOLTAGE SWITCH (NO NOTATION INDICATES SINGLE POLE)

WIRING DEVICE SYMBOLS

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE - ABOVE COUNTER. MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- DUPLEX RECEPTACLE - SPLIT WIRED
- DOUBLE DUPLEX RECEPTACLE
- SPECIFIC USE RECEPTACLE. NEMA CONFIGURATIONS NOTED ON DRAWINGS AND/OR SCHEDULE.
- Φ_C — SIMPLEX RECEPTACLE - CEILING-MOUNT
- Φ_C — DUPLEX RECEPTACLE - CEILING-MOUNT
- Φ_C — DOUBLE DUPLEX RECEPTACLE - CEILING-MOUNT
- Φ_C — SPECIFIC USE RECEPTACLE - CEILING-MOUNT. NEMA CONFIGURATIONS NOTED ON DRAWINGS AND/OR SCHEDULE.
- RECEPTACLE SHADING MODIFIER - OPTIONAL STANDBY (NEC 701)

RECEPTACLE NOTATIONS:

D	DEDICATED RECEPTACLE
GFCI	GROUND FAULT INTERRUPTER RECEPTACLE
WP	WEATHER PROOF RECEPTACLE

DEVICE KEY:

PNL-1 / 48" / EWC / GFCI

- INDICATES BRANCH PANEL & CIRCUIT NUMBER
- INDICATES MOUNTING HEIGHT
- INDICATES DEVICE NOTATION OR EQUIPMENT NAME/DESCRIPTION

SLASH MAY BE USED TO SEPARATE INFORMATION: i.e. 48"/GFCI

- PUSH BUTTON

MOTOR CONTROL & PROTECTIVE DEVICE SYMBOLS

- ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS, SIZED PER NEC. COORDINATE REQUIREMENTS WITH CONTRACTOR FURNISHING MOTOR OR EQUIPMENT. REFER TO SPECIFICATIONS AND EQUIPMENT WIRING SCHEDULE FOR ADDITIONAL WORK ASSOCIATED WITH MOTOR OR EQUIPMENT.
- CONNECTION SHADING MODIFIER: LEGALLY REQUIRED STANDBY (NEC 701) AND OPTIONAL STANDBY (NEC 702)
- ENCLOSED CIRCUIT BREAKER
- DISCONNECT SWITCH - NON-FUSIBLE
- S_{FS} — BUSS FUSESTAT TYPE SSY
- S_{MS} — MANUAL MOTOR STARTER - W/ OVERLOAD RELAYS
- S_{MX} — MANUAL MOTOR STARTER SWITCH

SERVICE & DISTRIBUTION SYMBOLS

- ATS — AUTOMATIC TRANSFER SWITCH
- EPO / G — EMERGENCY POWER OFF SWITCH, MUSHROOM HEAD PUSH BUTTON AT 48" AFF. B: BOILER SHUT-OFF NAMEPLATE G: GENERATOR SHUT-OFF NAMEPLATE
- GAP — GENERATOR ANNUNICATOR PANEL
- MTS — MANUAL TRANSFER SWITCH
- SPD — SURGE PROTECTIVE DEVICE
- GCC — GENERATOR CONNECTION CABINET
- FEEDER BUS DUCT
- PANELBOARD
- PANELBOARD SHADING MODIFIER

SITE SYMBOLS

- E — HANDHOLE - ELECTRIC

RACEWAY SYMBOLS

- WIREWAY, SIZE AND TYPE AS INDICATED ON DRAWINGS
- J — JUNCTION BOX - CEILING MOUNTED
- J — JUNCTION BOX - WALL MOUNTED

GENERAL SYMBOLS

- #/E-### — DETAIL NUMBER / SHEET NUMBER
- 9.XXX — KEYED NOTE: USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH
- ### — KITCHEN EQUIPMENT TAG: # REFERS TO CORRESPONDING NUMBER IN KITCHEN EQUIPMENT SCHEDULE
- XXX — LIGHTING CONTROL SEQUENCE OF OPERATIONS TAG: XXX REFERS TO CORRESPONDING SPACE TYPE IN THE LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE.

LINE TYPE KEY

- NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK DASHED LINE)
- EXISTING TO REMAIN WORK (THIN SOLID LINE)
- NEW WORK UNDER FLOOR BY THIS CONTRACTOR
- ONE-LINE EQUIPMENT ENCLOSURE
- PANEL DIVISION LINES
- —CON— SITE UNDERGROUND CONDUIT
- —E— SITE UNDERGROUND ELECTRIC
- —/E/— SITE UNDERGROUND ELECTRIC TO BE REMOVED

ELECTRICAL ABBREVIATIONS

3R	NEMA 3R RATING
4X	NEMA 4X RATING
A	AMPERES
A/E	ARCHITECT / ENGINEER
AAC	ABOVE ACCESSIBLE CEILING
ACCU	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APE	AIRCRAFT PROCESS EQUIPMENT
ATS	AUTOMATIC TRANSFER SWITCH
BLDG	BUILDING
BRKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CEB	CONCRETE EQUIPMENT BASE
CF	CIRCULATION FAN
CH	CHILLER
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
CP	CIRCULATION PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CRP	CONDENSATION RETURN
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
DC	DROP CORD
DDC	DIGITAL CONTROL PANEL
DH	DUCT HEATER
DISC	DISCONNECT
DO	DOOR OPERATOR
DWG	DRAWING
E/O	ELECTRICAL-TO-OPTICAL CONVERTER
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ERL	EXISTING TO BE RELOCATED
ERLD	EXISTING - RELOCATED LOCATION
ES	EQUIPMENT SUPPLIER
ETR	EXISTING TO REMAIN
EWC	ELECTRICAL WATER COOLER
EWH	ELECTRICAL WATER HEATER
F	FUSED
FA	FIRE ALARM
FAF	FORCED AIR FURNACE
FCU	FAN COIL UNIT
GCC	GENERATOR CONNECTION CABINET
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GWH	GAS WATER HEATER
HD	HAND DRYER
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HWB	HOT WATER BOILER
HWP	HOT WATER PUMP
IEWH	INSTANTANEOUS ELECTRIC WATER HEATER
IH	INFRARED HEATER
IMC	INTERMEDIATE METALLIC CONDUIT
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
LBS	POUNDS
LFS	LIGHTING FIXTURE SCHEDULE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MIN.	MINIMUM
MNS	MASS NOTIFICATION SYSTEM
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NL/EL	NIGHT LIGHT AND EMERGENCY LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RCP	RADIANT CEILING PANEL
RECPT	RECEPTACLE
REF	REFRIGERATOR
REQ'D	REQUIRED
RF	RETURN FAN
RGS	RIGID GALVANIZED STEEL CONDUIT MAY ALSO BE REFERENCED AS RMC OR GRC
RMC	RIGID METAL CONDUIT
RTU	ROOF TOP UNIT
S/N	SOLID NEUTRAL
SE	SERVICE ENTRANCE
SEC-P	SECURITY PANEL
SF	SUPPLY FAN
SP	SUMP PUMP
SS	STAINLESS STEEL
SW	SWITCH
SWBK	SWITCH BANK
TBR	TO BE REMOVED
TCP	TEMPERATURE CONTROL PANEL
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TYP	TYPICAL
UC	UNIT COOLER
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
V	VOLTS
VER	VEHICLE EXHAUST REEL
VFD	VARIABLE FREQUENCY DRIVE
VS	VERSUS
W	WATTS
WCC	WATER COOLED CONDENSER
WFE	WELDING FUME EXTRACTOR
WH	WATER HEATER
WL	WET LOCATION LISTED
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

CONTRACTOR ABBREVIATIONS

AVC	AUDIO/VISUAL CONTRACTOR
CC	CIVIL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
HC	HEATING CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
TC	TECHNOLOGY CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR
VC	VENTILATION CONTRACTOR

GENERAL NOTES:

1. REFER TO THE G SERIES DRAWINGS FOR CODE ANALYSIS PLANS, INFORMATION AND NOTES.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DETAILS OF WORK, VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE ENGINEER OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK.
3. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES) AND ABA (ARCHITECTURAL BARRIERS ACT).
4. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND FLOORS. SEAL ALL RATED PENETRATIONS. REFER TO DIV. 07 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
5. FLUSH-MOUNT ALL LIGHTING CONTROL DEVICES AT 42" FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT WHERE OTHERWISE NOTED.
6. FLUSH-MOUNT ALL RECEPTACLES AT 18" FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT WHERE OTHERWISE NOTED.
7. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL SCHEDULES AS PROVIDED. BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE BETWEEN EACH PHASE. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS.
8. CIRCUITS SERVING EMERGENCY AND EXIT LUMINAIRES SHALL BE RUN IN SEPARATE RACEWAY FROM ALL OTHER CIRCUITS.
9. A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
10. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE. WHERE RACEWAY IS REQUIRED ON EXISTING CONCRETE AND MASONRY WALLS, SURFACE RACEWAY MAY BE USED IN LIEU OF CHANNELING WALLS TO ALLOW CONCEALED ROUTING. THE RACEWAY SHALL BE SINGLE CHANNEL STYLE TYPE WITH IVORY FINISH. THIS APPLIES FOR BRANCH CIRCUIT CONDUITS UP TO 3/4" SIZE. CONDUITS LARGER THAN 3/4" MAY BE ROUTED EXPOSED, BUT INSTALLED PARALLEL AND/OR PERPENDICULAR TO BUILDING LINES AND RUN AS UNOBTRUSIVELY AS POSSIBLE.
11. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
12. COORDINATE AND CO-LOCATE WALL MOUNTED RECEPTACLE LOCATIONS WITH TECHNOLOGY (VOICE/DATA, CATV, FIDS, ETC.) OUTLETS SHOWN ON THE T-SERIES DRAWINGS UNLESS OTHERWISE NOTED, EACH TECHNOLOGY OUTLET SHALL BE LOCATED WITHIN 24" OF ITS ASSOCIATED RECEPTACLE. ASSOCIATED RECEPTACLE SHALL BE DEFINED AS THE RECEPTACLE NEAREST THE LOCATION OF, AND AT THE SAME HEIGHT AS, THE TECHNOLOGY OUTLET WHEN MULTIPLE RECEPTACLES ARE SHOWN ON A WALL.
13. DUPLEX RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) SHALL BE CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE DIRECTLY BELOW AND CENTERED ON EWC. VERIFY TYPE OF EWC TO BE INSTALLED.
14. COORDINATE THE LOCATION OF ALL DETECTORS WITH LUMINAIRES, SPRINKLERS, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
15. VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO ELECTRICAL INSTALLATION ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
16. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TECHNOLOGY EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
17. PROVIDE SUITABLE MECHANICAL PROTECTION AROUND ALL CONDUITS STUBBED OUT FROM FLOORS, WALLS, OR CEILINGS DURING CONSTRUCTION TO PREVENT BENDING OR DAMAGING OF STUB OUTS DUE TO CARELESSNESS WITH CONSTRUCTION EQUIPMENT.
18. ALL OPENINGS IN WALLS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
19. DRAWINGS INDICATE THE EXTENT OF HAZARDOUS OR WET LOCATIONS. INSTALLATION MEANS AND METHODS SHALL BE SUITABLY RATED FOR THE ENVIRONMENT INDICATED ON THE DRAWINGS.
20. REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
21. SCCR RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.

DEMOLITION GENERAL NOTES:

1. THE INFORMATION SHOWN IS BASED ON EXISTING DRAWINGS AND SITE OBSERVATIONS TO ASSIST CONTRACTOR IN BIDDING. THE ELECTRICAL DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS. REFER TO SPECIFICATION SECTION 26 05 02 FOR ADDITIONAL REQUIREMENTS.
2. ELECTRICAL ITEMS (i.e., LIGHTING FIXTURES, PANELBOARDS, DISCONNECTS, MOTOR CONTROLLERS, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER IN A STORAGE AREA TO BE DESIGNATED BY THE OWNER. EQUIPMENT BEING REMOVED SHALL BE HANDLED SO AS NOT TO FURTHER REDUCE ITS VALUE TO THE OWNER. DISPOSE OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.
3. WHERE LIGHTS, SWITCHES, RECEPTACLES, ETC., ARE BEING REMOVED, ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE PANELBOARD OR FEEDER JUNCTION BOX SERVING THE DEVICE SHALL ALSO BE REMOVED, UNLESS THE CONDUIT CAN BE REUSED FOR NEW CONDUCTORS. DISPOSE OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.
4. ALL BOXES THAT ARE TO REMAIN IN PLACE IN EXISTING MASONRY WALLS SHALL BE PROVIDED WITH A BLANK COVERPLATE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH TYPE AND ATTACHMENT.
5. REMOVE ALL CONDUIT WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE, AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS, ETC., SHALL ALSO BE REMOVED. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION.
6. COORDINATE ALL WORK, INCLUDING PHASING WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING ELECTRICAL AND INSTALLING NEW ITEMS.
7. EXISTING CONDUIT IN GOOD CONDITION MAY BE REUSED IN PLACE. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
8. MAINTAIN CIRCUIT CONTINUITY OF DEVICES LOCATED OUTSIDE OF CONSTRUCTION AREA. DEVICE AND EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
9. BALLASTS MANUFACTURED PRIOR TO 1980 CONTAIN PCBs AND SHALL BE DISPOSED OF IN ACCORDANCE WITH SPECIFICATIONS.
10. HID AND FLUORESCENT LAMPS CONTAIN MERCURY AND SHALL BE DISPOSED OF IN ACCORDANCE WITH SPECIFICATIONS.
11. REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
12. PROVIDE REVISED, TYPED CIRCUIT DIRECTORY IN PANELBOARDS THAT HAVE CIRCUITS REMOVED OR ADDED CIRCUITS.
13. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT RACEWAY FLUSH WITH WALLS AND FLOORS AND PATCH SURFACES TO MATCH EXISTING. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC. ASSOCIATED WITH RACEWAY REMOVAL.
14. DISCONNECT AND REMOVE ABANDONED LUMINAIRES, INCLUDING BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
15. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.

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WISCONSIN — BRIAN L FULLER — E-45491 — MADISON, WIS. — PROFESSIONAL ENGINEER — 1/23/2026

LA CROSSE REGIONAL AIRPORT REHABILITATE ARFF BUILDING

BOA NO.: LSE1023
2841 Fanta Reed Rd
La Crosse, WI 54603

ISSUED

BOA NO.: LSE1023
M&H NO.: 2309930-201676.01
DATE: 01/23/2026
DESIGNED BY: RKK
DRAWN BY: RKK
CHECKED BY: BLF
DO NOT SCALE DRAWINGS

SHEET CONTENTS
NOTES, SYMBOLS & ABBREVIATIONS

SHEET NO.:
E-001

ELECTRICAL KEYED NOTES

9.002 REMOVE EXISTING LIGHT FIXTURES. RETAIN EXISTING CIRCUITRY AND CONDUIT FOR REUSE WITH NEW LED FIXTURES. SALVAGE UNDAMAGED FLUORESCENT LAMPS AND TURN OVER TO OWNER. SEE E-121 AND E-122 FOR NEW FIXTURES.

9.003 REMOVE EXISTING LIGHT FIXTURES. RETAIN EXISTING CIRCUITRY AND CONDUIT FOR REUSE WITH NEW LED FIXTURES. SEE E-121 AND E-122 FOR NEW FIXTURES.

9.004 REMOVE EXISTING RECEPTACLES IN WATCH AREA 201. SEE SHEET E-102 FOR RECIRCUITING RECEPTACLES.

9.007 AFTER DISCONNECTION AND REMOVAL, TURN OVER REMOVED GENERATOR TO LA CROSSE AIRPORT. LOCATE GENERATOR IN A NEARBY STAGING LOCATION ON SITE THAT ALLOWS AIRPORT EQUIPMENT ACCESS FOR PICKUP AND TRANSPORT TO AIRPORT STORAGE. COORDINATE STAGING LOCATION AND TURNOVER SCHEDULE WITH AIRPORT THROUGH ENGINEER.

9.201 PROVIDE NEW CONDUIT AND EMERGENCY BRANCH CIRCUIT FROM CENTRAL INVERTER PANEL (MECH RM 111) TO DESIGNATED EMERGENCY LIGHT FIXTURES. MAINTAIN EXISTING NORMAL BRANCH CIRCUIT AND LIGHTING CONTROLS FOR NORMAL OPERATION. COORDINATE FIXTURE CONNECTIONS TO ENSURE NORMAL LIGHTING OPERATION ON NORMAL POWER AND EMERGENCY OPERATION FROM INVERTER UPON LOSS OF NORMAL POWER. MATCH EXISTING CONDUCTOR SIZE AND CONDUIT WHERE FEASIBLE.

9.204 RECIRCUIT DESIGNATED LIGHT FIXTURES FROM NEW PANEL SPP IN MECHANICAL ROOM 111. MATCH EXISTING CONDUCTOR SIZE AND CONDUIT WHERE FEASIBLE.

9.205 PROVIDE NEW CONDUIT AND EMERGENCY BRANCH CIRCUIT FROM CENTRAL INVERTER PANEL (MECH RM 111) TO DESIGNATED EMERGENCY LIGHT FIXTURES. COORDINATE FIXTURE CONNECTIONS TO ENSURE NORMAL LIGHTING OPERATION ON NORMAL POWER AND EMERGENCY OPERATION FROM INVERTER UPON LOSS OF NORMAL POWER. MATCH EXISTING CONDUCTOR SIZE AND CONDUIT WHERE FEASIBLE.

9.301 30 KW/37.5KVA, 208Y/120V 3-PH NATURAL GAS GENERATOR IN WEATHER ACOUSTIC ENCLOSURE WITH MOTORIZED DAMPERS ON NEW CONCRETE PAD.

9.303 REPLACE EXISTING GFCI RECEPTACLES WITH NEW 20A TAMPER-RESISTANT GFCI RECEPTACLES ON SAME EXISTING BRANCH CIRCUIT. REUSE EXISTING BACKBOXES, CONDUITS, AND WIRING WHERE FEASIBLE. FIELD VERIFY CONDITION AND CONTINUITY OF EXISTING CONDUIT AND CONDUCTORS PRIOR TO REUSE. REPLACE ANY DAMAGED OR DETERIORATED WIRING.

9.304 RECIRCUIT DESIGNATED RECEPTACLES TO NEW PANEL SPP IN MECHANICAL ROOM 111. MAINTAIN EXISTING CIRCUIT QUANTITY AND DISTRIBUTION (DO NOT CONSOLIDATE); RECONNECT RECEPTACLES TO SEPARATE BRANCH CIRCUITS TO PRESERVE LOAD DIVERSITY AND SPARE CAPACITY. IDENTIFY UPDATED PANEL/CIRCUIT DESIGNATIONS ON PANELS AND PANEL SCHEDULES.

9.305 NEW GENERATOR ANNUNCIATOR PANEL IN MECH ROOM 111.

9.306 GENERATOR START CONTACT. PROVIDE STARTING CIRCUIT TO GENERATOR CONTROL PANEL IN 3/4" CONDUIT. THE INTEGRITY OF THE STARTING CIRCUIT SHALL BE CONTINUOUSLY MONITORED. LOSS OF INTEGRITY OF THE STARTING CIRCUIT SHALL INITIATE VISUAL AND AUDIBLE ANNUNCIATION AT THE GENERATOR AND AT THE REMOTE ANNUNCIATOR.

9.307 PROVIDE WIRING IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS IN 1"C.

9.308 PROVIDE 2 #12 AWG BETWEEN START CONTACTS ON TRANSFER SWITCH AND GENERATOR CONTROL PANEL.

9.309 RECIRCUIT EF TO PANEL SPP. MATCH EXISTING CONDUIT AND CONDUCTOR SIZE.

9.310 ROUTE NEW CONDUIT AND CIRCUITRY TO NEW GAS FURNACE. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION. SEE EQUIPMENT WIRING SCHEDULE ON SHEET E-601 FOR MORE INFORMATION.

9.311 REUSE EXISTING CONDUIT AND CIRCUITRY IN PLACE FOR NEW GAS FURNACE GF-1A. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.

9.312 5KW CENTRAL INVERTER FOR ALL EGRESS LIGHTING AND EXITS. SEE E12X SERIES FOR MORE INFORMATION. FEED INVERTER FROM PANEL SPP.

9.313 FURNISH AND INSTALL 40A/3P BREAKER IN EXISTING PANEL PP2 AND FEED NEW CIRCUIT TO NEW ACCU-2. SEE E-601 FOR EQUIPMENT WIRING SCHEDULE, AND PANEL SCHEDULES.

9.315 NEW CONDUCTORS AND CONDUIT AND NON-FUSED DISCONNECT FOR NEW ACCU-1A AND ACCU-1B.

9.316 RECIRCUIT MAU FROM PANEL PP1-25,27,29 TO PANEL SPP. RELABEL ASSOCIATED CIRCUIT IN PANEL SCHEDULE TO "SPARE" AND SWITCH CIRCUIT BREAKER TO THE "OFF" POSITION. MATCH EXISTING CONDUIT AND CONDUCTOR SIZE.

9.318 PROVIDE AUXILIARY POWER CONNECTIONS TO GENERATOR-MOUNTED EQUIPMENT, INCLUDING COOLANT HEATER, GENERATOR HEATER, BATTERY CHARGER, WP/GFCI RECEPTACLE AND INTERIOR STRIP LIGHTS. FEED ALL AUXILIARY LOADS FROM THE GENERATOR'S INTERNAL LOAD CENTER AS INDICATED BY MANUFACTURER.

9.319 PROVIDE FEEDER FROM GENERATOR TO ATS-O LOCATED IN MECHANICAL ROOM 111. FIELD VERIFY EXACT LOCATION AND ROUTING.

9.320 PROVIDE NON-FUSED DISCONNECT AND THREE-BUTTON OVERHEAD DOOR CONTROL STATION (OPEN/CLOSE/STOP), MOUNTED AT READILY ACCESSIBLE HEIGHT AND IN COMPLIANCE WITH NEC 430.107.

9.321 PROVIDE LB FITTING 1 FT ABOVE GRADE OF EXTERIOR WALL FOR BUILDING ENTRY. FIELD VERIFY EXACT LOCATION AND ROUTING.

9.322 PROVIDE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) RECEPTACLES IN ALL DORMITORY SLEEPING ROOMS IN COMPLIANCE WITH NEC 210.12. DEVICES SHALL BE LISTED, TAMPER-RESISTANT, AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. COORDINATE WITH BRANCH CIRCUIT PROTECTION TO ENSURE FULL COMPLIANCE.

9.323 SEE E-101 FOR DISCONNECT SWITCH AND DOOR CONTROL LOCATION. REFER TO SPECIFICATION 083613 FOR MORE INFORMATION ON OVERHEAD DOORS.

9.325 NEW TOP FED DEDICATED QUADRUPLEX RECEPTACLE AT 6'-6" A.F.F. ON PLYWOOD BACKBOARD FOR TECHNOLOGY SYSTEMS.

9.326 PROVIDE DEDICATED QUADRUPLEX RECEPTACLE FOR TECHNOLOGY SYSTEMS. FEED FROM AVAILABLE 20A/1P CIRCUIT FROM PANEL A. COORDINATE WITH DIV 27 FOR EXACT LOCATION PRIOR TO ROUGH-IN.

9.327 PROVIDE (3) #8 AWG CONDUCTORS AND (1) #10 AWG EQUIPMENT GROUNDING CONDUCTOR IN 1-1/4" CONDUIT FROM PANEL SPP IN MECHANICAL ROOM 111 TO GENERATOR-INTEGRAL LOAD CENTER.

9.329 ROUTE REUSED EXISTING RANGE BRANCH CIRCUIT FROM JUNCTION BOX TO NEW RANGE RECEPTACLE. NEW RANGE RECEPTACLE SHALL MATCH REMOVED RANGE RECEPTACLE SPECS (AMPACITY, RECEPTACLE CONFIGURATION, ETC.) OVEN/STOVE PROVIDED BY OWNER.

9.330 PROVIDE DEDICATED BRANCH CIRCUIT FOR FIRE TRUCK RECEPTACLE. RECIRCUIT RECEPTACLE TO PANEL SPP.

9.331 RECIRCUIT IR TO PANEL SPP. MATCH EXISTING CONDUIT AND CONDUCTOR SIZE.

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1/23/2026

LA CROSSE REGIONAL AIRPORT REHABILITATE ARFF BUILDING

BOA NO.: LSE1023
2841 Fanta Reed Rd
La Crosse, WI 54603

ISSUED:

BOA NO.: LSE1023
M&H NO.: 2309930-201676.01
DATE: 01/23/2026
DESIGNED BY: RKK
DRAWN BY: RKK
CHECKED BY: BLF
DO NOT SCALE DRAWINGS

SHEET CONTENTS
ELECTRICAL KEYED NOTES

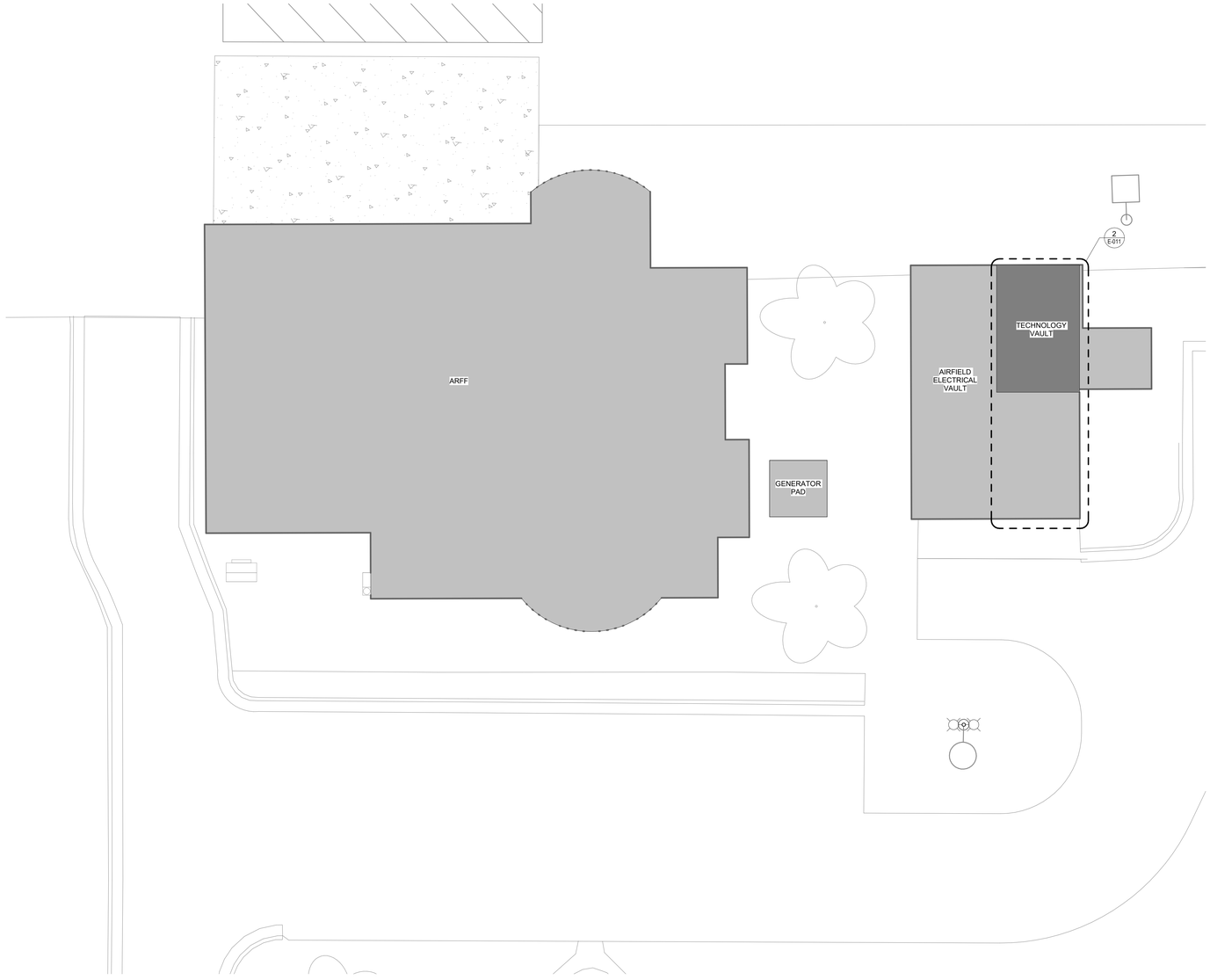
SHEET NO.:
E-005

GENERAL NOTES:

1. REFER TO SHEET E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-50X SHEETS FOR DETAILS, E-60X SHEETS FOR SCHEDULES, AND E-70X SHEETS FOR ONE-LINE DIAGRAMS.

KEYED NOTES

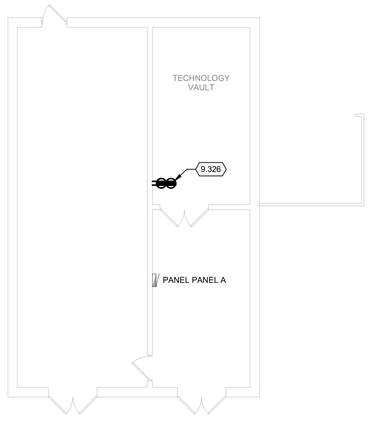
9.326 PROVIDE DEDICATED QUADRUPLEX RECEPTACLE FOR TECHNOLOGY SYSTEMS. FEED FROM AVAILABLE 20A/1P CIRCUIT FROM PANEL A. COORDINATE WITH DIV 27 FOR EXACT LOCATION PRIOR TO ROUGH-IN.



TRUE NORTH PLAN NORTH

1 SITEPLAN - ELECTRICAL

1" = 10'-0"



TRUE NORTH PLAN NORTH

2 AIRFIELD ELECTRICAL VAULT BUILDING - POWER PLAN

1/8" = 1'-0"

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SHEET CONTENTS
ARFF & AIRFIELD ELECTRICAL VAULT BUILDING - ELECTRICAL

SHEET NO.:

E-011

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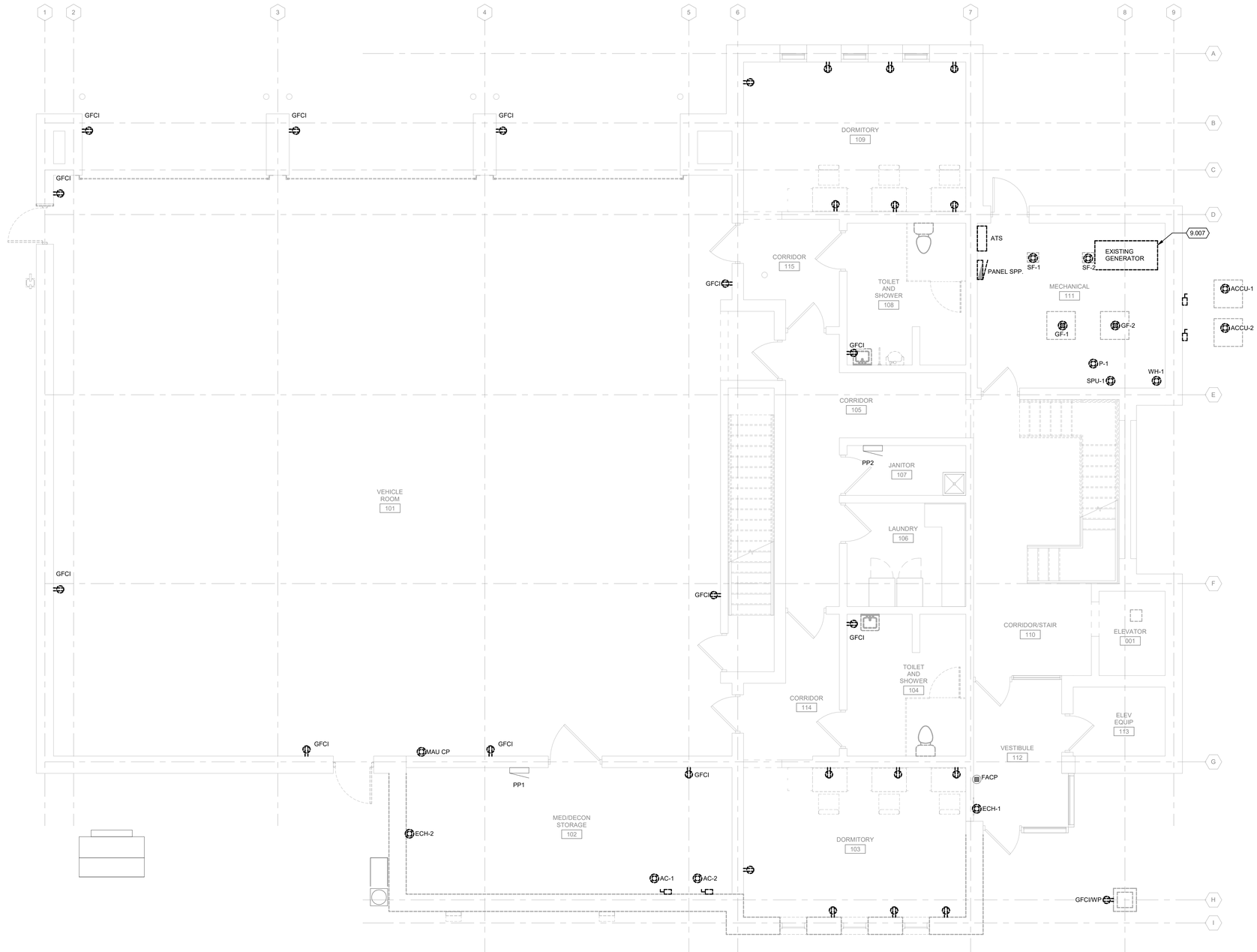
DEMOLITION GENERAL NOTES:

1. ALL EXISTING MECHANICAL EQUIPMENT AS WELL AS ASSOCIATED DISCONNECTS BEING REPLACED WITH NEW. DISCONNECT AND RETAIN EXISTING CIRCUITRY AND CONDUIT FOR REUSE WITH NEW MECHANICAL EQUIPMENT UNLESS NOTED OTHERWISE. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEYED NOTES

9.007 AFTER DISCONNECTION AND REMOVAL, TURN OVER REMOVED GENERATOR TO LA CROSSE AIRPORT. LOCATE GENERATOR IN A NEARBY STAGING LOCATION ON SITE THAT ALLOWS AIRPORT EQUIPMENT ACCESS FOR PICKUP AND TRANSPORT TO AIRPORT STORAGE. COORDINATE STAGING LOCATION AND TURNOVER SCHEDULE WITH AIRPORT THROUGH ENGINEER.



TRUE NORTH PLAN NORTH

1 FIRST FLOOR POWER PLAN - DEMOLITION

1/4" = 1'-0"

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SHEET CONTENTS
FIRST FLOOR POWER DEMOLITION PLAN

SHEET NO.:

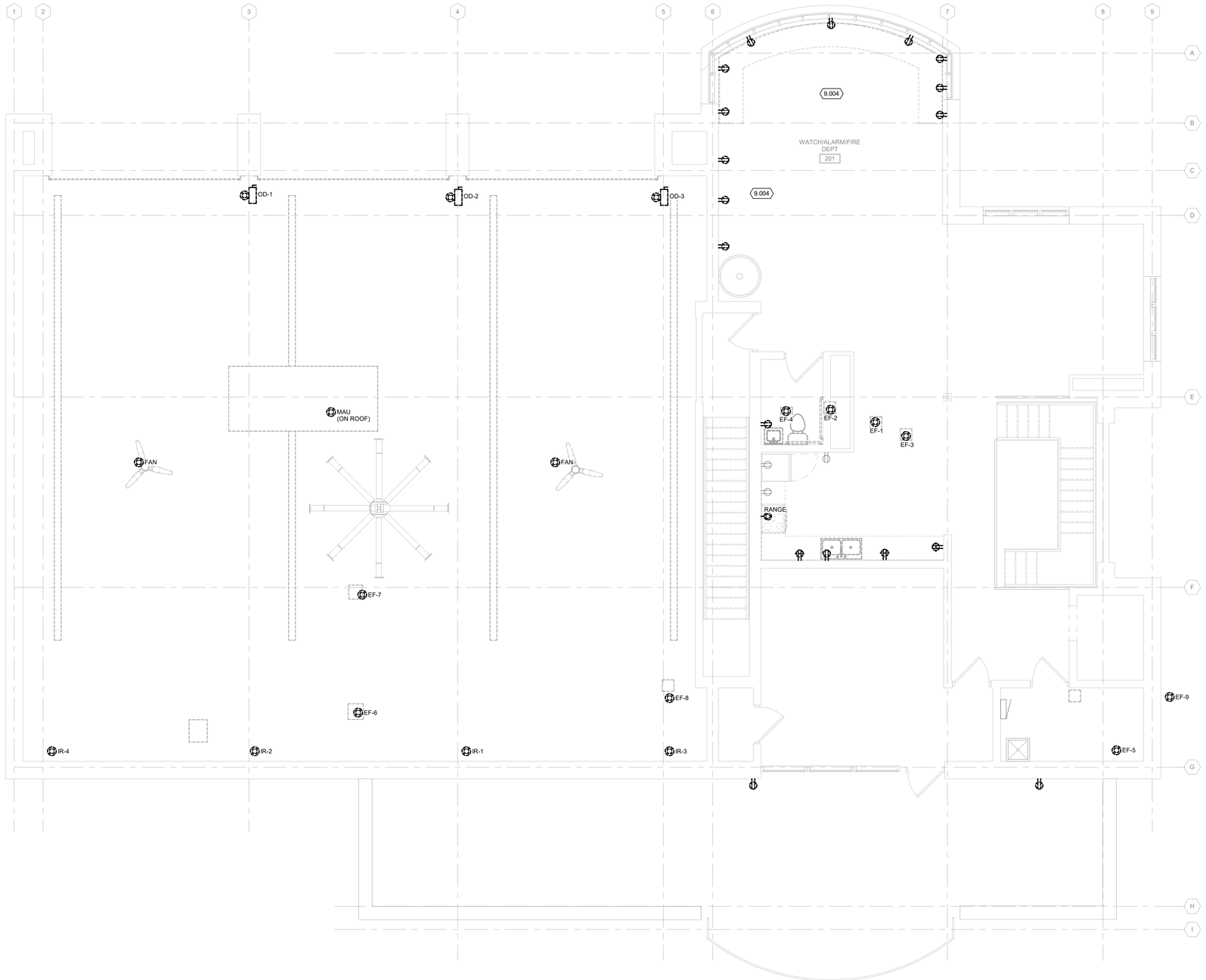
ED101

DEMOLITION GENERAL NOTES:

1. ALL EXISTING MECHANICAL EQUIPMENT AS WELL AS ASSOCIATED DISCONNECTS BEING REPLACED WITH NEW. DISCONNECT AND RETAIN EXISTING CIRCUITRY AND CONDUIT FOR REUSE WITH NEW MECHANICAL EQUIPMENT UNLESS NOTED OTHERWISE. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEYED NOTES

9.004 REMOVE EXISTING RECEPTACLES IN WATCH AREA 201. SEE SHEET E-102 FOR RECIRCUITING RECEPTACLES.



TRUE NORTH PLAN NORTH

SECOND FLOOR POWER PLAN - DEMOLITION

1/4" = 1'-0"

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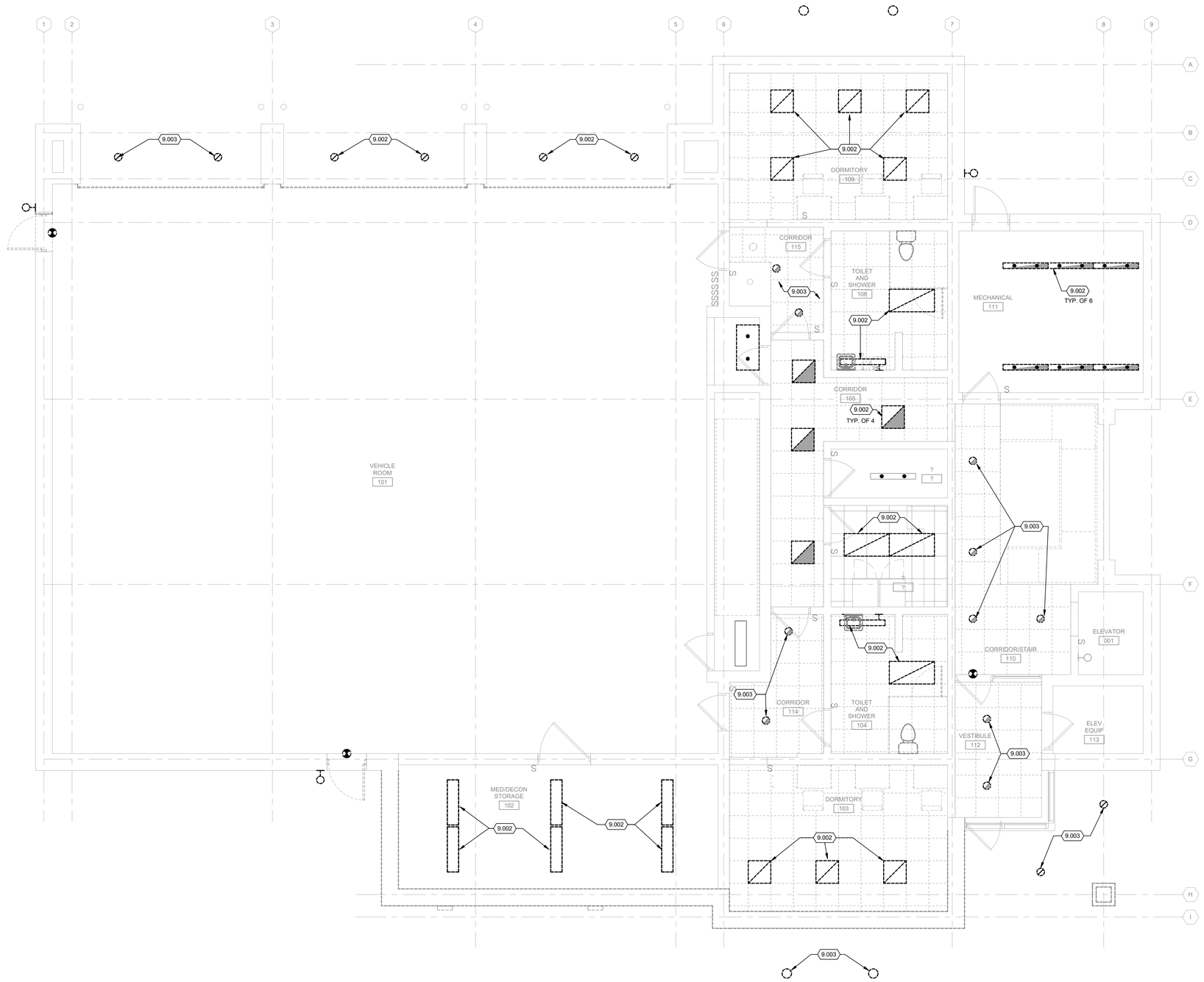
SHEET CONTENTS:
SECOND FLOOR POWER DEMOLITION PLAN

SHEET NO.:

ED102



TRUE NORTH PLAN NORTH

1 FIRST FLOOR LIGHTING PLAN - DEMOLITION

1/4" = 1'-0"

KEYED NOTES

9.002 REMOVE EXISTING LIGHT FIXTURES. RETAIN EXISTING CIRCUITRY AND CONDUIT FOR REUSE WITH NEW LED FIXTURES. SALVAGE UNDAMAGED FLUORESCENT LAMPS AND TURN OVER TO OWNER. SEE E-121 AND E-122 FOR NEW FIXTURES.

9.003 REMOVE EXISTING LIGHT FIXTURES. RETAIN EXISTING CIRCUITRY AND CONDUIT FOR REUSE WITH NEW LED FIXTURES. SEE E-121 AND E-122 FOR NEW FIXTURES.

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SHEET CONTENTS
FIRST FLOOR LIGHTING DEMOLITION PLAN

SHEET NO.:

ED121

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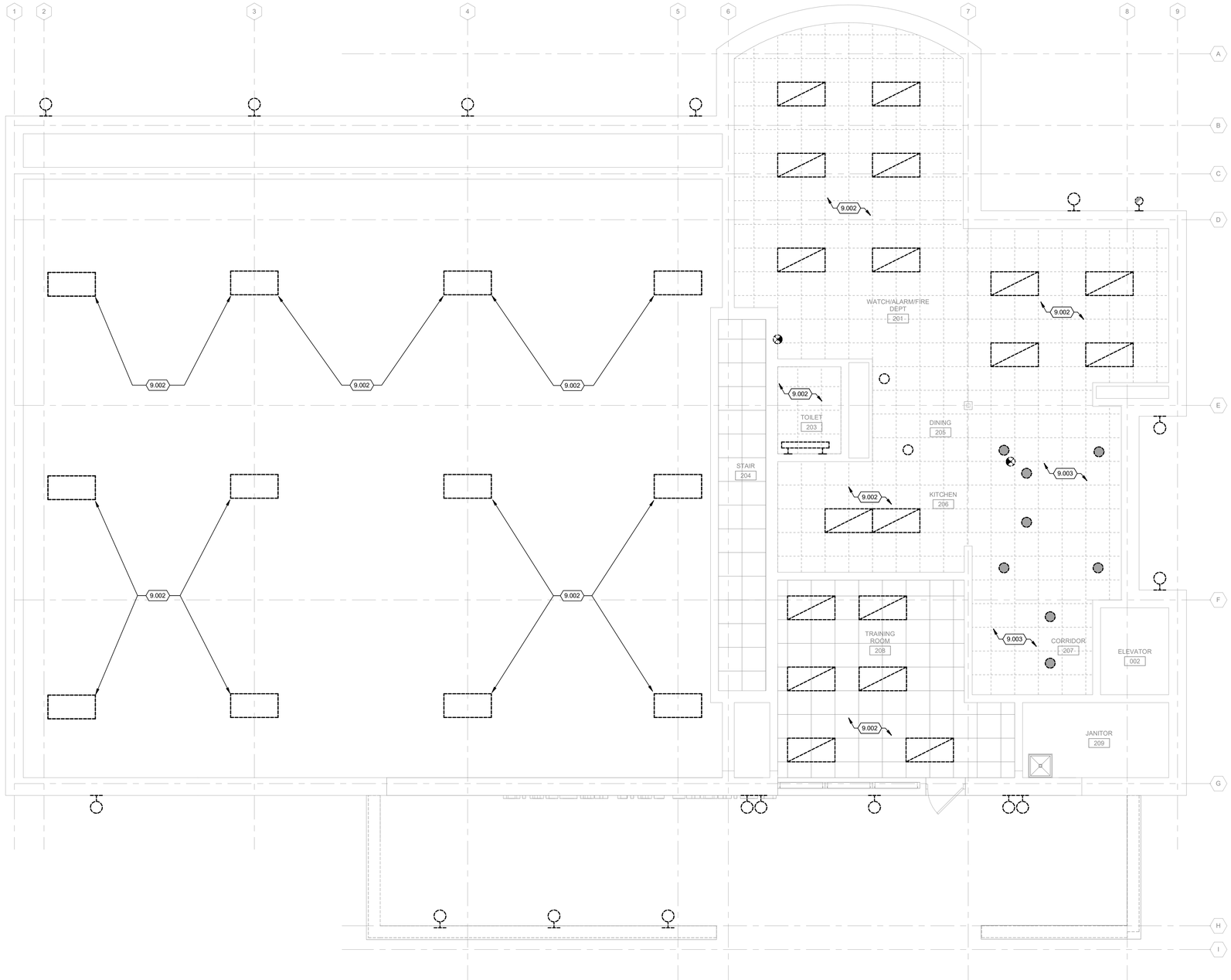

TRUE NORTH PLAN NORTH

1 SECOND FLOOR LIGHTING PLAN - DEMOLITION

1/4" = 1'-0"

KEYED NOTES

9.002 REMOVE EXISTING LIGHT FIXTURES. RETAIN EXISTING CIRCUITRY AND CONDUIT FOR REUSE WITH NEW LED FIXTURES. SALVAGE UNDAMAGED FLUORESCENT LAMPS AND TURN OVER TO OWNER. SEE E-121 AND E-122 FOR NEW FIXTURES.

9.003 REMOVE EXISTING LIGHT FIXTURES. RETAIN EXISTING CIRCUITRY AND CONDUIT FOR REUSE WITH NEW LED FIXTURES. SEE E-121 AND E-122 FOR NEW FIXTURES.

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SHEET CONTENTS
SECOND FLOOR LIGHTING DEMOLITION PLAN

SHEET NO.:

ED122

TRUE NORTH PLAN NORTH

1 FIRST FLOOR POWER PLAN

1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-50X SHEETS FOR DETAILS, E-60X SHEETS FOR SCHEDULES, AND E-70X SHEETS FOR ONE-LINE DIAGRAMS.

SHEET NOTES:

1. ALL EXISTING MECHANICAL EQUIPMENT AS WELL AS ASSOCIATED DISCONNECTS BEING REPLACED WITH NEW. REUSE EXISTING CIRCUITRY AND CONDUIT FOR CONNECTION TO NEW EQUIPMENT UNLESS NOTED OTHERWISE. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEYED NOTES

9.301 30 KW/37.5KVA, 208Y/120V 3-PH NATURAL GAS GENERATOR IN WEATHER ACOUSTIC ENCLOSURE WITH MOTORIZED DAMPERS ON NEW CONCRETE PAD.

9.303 REPLACE EXISTING GFCI RECEPTACLES WITH NEW 20A TAMPER-RESISTANT GFCI RECEPTACLES ON SAME EXISTING BRANCH CIRCUIT. REUSE EXISTING BACKBOXES, CONDUITS, AND WIRING WHERE FEASIBLE. FIELD VERIFY CONDITION AND CONTINUITY OF EXISTING CONDUIT AND CONDUCTORS PRIOR TO REUSE. REPLACE ANY DAMAGED OR DETERIORATED WIRING.

9.310 ROUTE NEW CONDUIT AND CIRCUITRY TO NEW GAS FURNACE. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION. SEE EQUIPMENT WIRING SCHEDULE ON SHEET E-601 FOR MORE INFORMATION.

9.311 REUSE EXISTING CONDUIT AND CIRCUITRY IN PLACE FOR NEW GAS FURNACE GF-1A. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.

9.312 5KW CENTRAL INVERTER FOR ALL EGRESS LIGHTING AND EXITS. SEE E12X SERIES FOR MORE INFORMATION. FEED INVERTER FROM PANEL SPP.

9.313 FURNISH AND INSTALL 40A/3P BREAKER IN EXISTING PANEL PP2 AND FEED NEW CIRCUIT TO NEW ACCU-2. SEE E-601 FOR EQUIPMENT WIRING SCHEDULE, AND PANEL SCHEDULES.

9.315 NEW CONDUCTORS AND CONDUIT AND NON-FUSED DISCONNECT FOR NEW ACCU-1A AND ACCU-1B.

9.318 PROVIDE AUXILIARY POWER CONNECTIONS TO GENERATOR-MOUNTED EQUIPMENT, INCLUDING COOLANT HEATER, GENERATOR HEATER, BATTERY CHARGER, WP/GFCI RECEPTACLE AND INTERIOR STRIP LIGHTS. FEED ALL AUXILIARY LOADS FROM THE GENERATOR'S INTERNAL LOAD CENTER AS INDICATED BY MANUFACTURER.

9.319 PROVIDE FEEDER FROM GENERATOR TO ATS-O LOCATED IN MECHANICAL ROOM 111. FIELD VERIFY EXACT LOCATION AND ROUTING.

9.320 PROVIDE NON-FUSED DISCONNECT AND THREE-BUTTON OVERHEAD DOOR CONTROL STATION (OPEN/CLOSE/STOP), MOUNTED AT READILY ACCESSIBLE HEIGHT AND IN COMPLIANCE WITH NEC 430.107.

9.321 PROVIDE LB FITTING 1 FT ABOVE GRADE OF EXTERIOR WALL FOR BUILDING ENTRY. FIELD VERIFY EXACT LOCATION AND ROUTING.

9.322 PROVIDE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) RECEPTACLES IN ALL DORMITORY SLEEPING ROOMS IN COMPLIANCE WITH NEC 210.12. DEVICES SHALL BE LISTED, TAMPER-RESISTANT, AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. COORDINATE WITH BRANCH CIRCUIT PROTECTION TO ENSURE FULL COMPLIANCE.

9.325 NEW TOP FED DEDICATED QUADRUPLEX RECEPTACLE AT 6'-6" A.F.F. ON PLYWOOD BACKBOARD FOR TECHNOLOGY SYSTEMS.

9.327 PROVIDE (3) #8 AWG CONDUCTORS AND (1) #10 AWG EQUIPMENT GROUNDING CONDUCTOR IN 1-1/4" CONDUIT FROM PANEL SPP IN MECHANICAL ROOM 111 TO GENERATOR-INTEGRAL LOAD CENTER.

9.330 PROVIDE DEDICATED BRANCH CIRCUIT FOR FIRE TRUCK RECEPTACLE. RECIRCUIT RECEPTACLE TO PANEL SPP.

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1/23/2026

LA CROSSE REGIONAL AIRPORT REHABILITATE ARFF BUILDING

BOA NO.: LSE1023
2841 Fanta Reed Rd
La Crosse, WI 54603

ISSUED

BOA NO.:	LSE1023
M&H NO.:	2309930-201676.01
DATE:	01/23/2026
DESIGNED BY:	RKK
DRAWN BY:	RKK
CHECKED BY:	BLF

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SHEET CONTENTS
FIRST FLOOR POWER PLAN

SHEET NO.:

E-101

1/23/2026 3:31:52 PM Autodesk Docs://LSE Rehabilitate ARFF Building/201676.01-E-R25.rvt

GENERAL NOTES:

1. REFER TO SHEET E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-50X SHEETS FOR DETAILS, E-60X SHEETS FOR SCHEDULES, AND E-70X SHEETS FOR ONE-LINE DIAGRAMS.

SHEET NOTES:

1. ALL EXISTING MECHANICAL EQUIPMENT AS WELL AS ASSOCIATED DISCONNECTS BEING REPLACED WITH NEW. REUSE EXISTING CIRCUITRY AND CONDUIT FOR CONNECTION TO NEW EQUIPMENT UNLESS NOTED OTHERWISE. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEYED NOTES

9.303 REPLACE EXISTING GFCI RECEPTACLES WITH NEW 20A TAMPER-RESISTANT GFCI RECEPTACLES ON SAME EXISTING BRANCH CIRCUIT. REUSE EXISTING BACKBOXES, CONDUITS, AND WIRING WHERE FEASIBLE. FIELD VERIFY CONDITION AND CONTINUITY OF EXISTING CONDUIT AND CONDUCTORS PRIOR TO REUSE. REPLACE ANY DAMAGED OR DETERIORATED WIRING.

9.304 RECIRCUIT DESIGNATED RECEPTACLES TO NEW PANEL SPP IN MECHANICAL ROOM 111. MAINTAIN EXISTING CIRCUIT QUANTITY AND DISTRIBUTION (DO NOT CONSOLIDATE); RECONNECT RECEPTACLES TO SEPARATE BRANCH CIRCUITS TO PRESERVE LOAD DIVERSITY AND SPARE CAPACITY. IDENTIFY UPDATED PANEL/CIRCUIT DESIGNATIONS ON PANELS AND PANEL SCHEDULES.

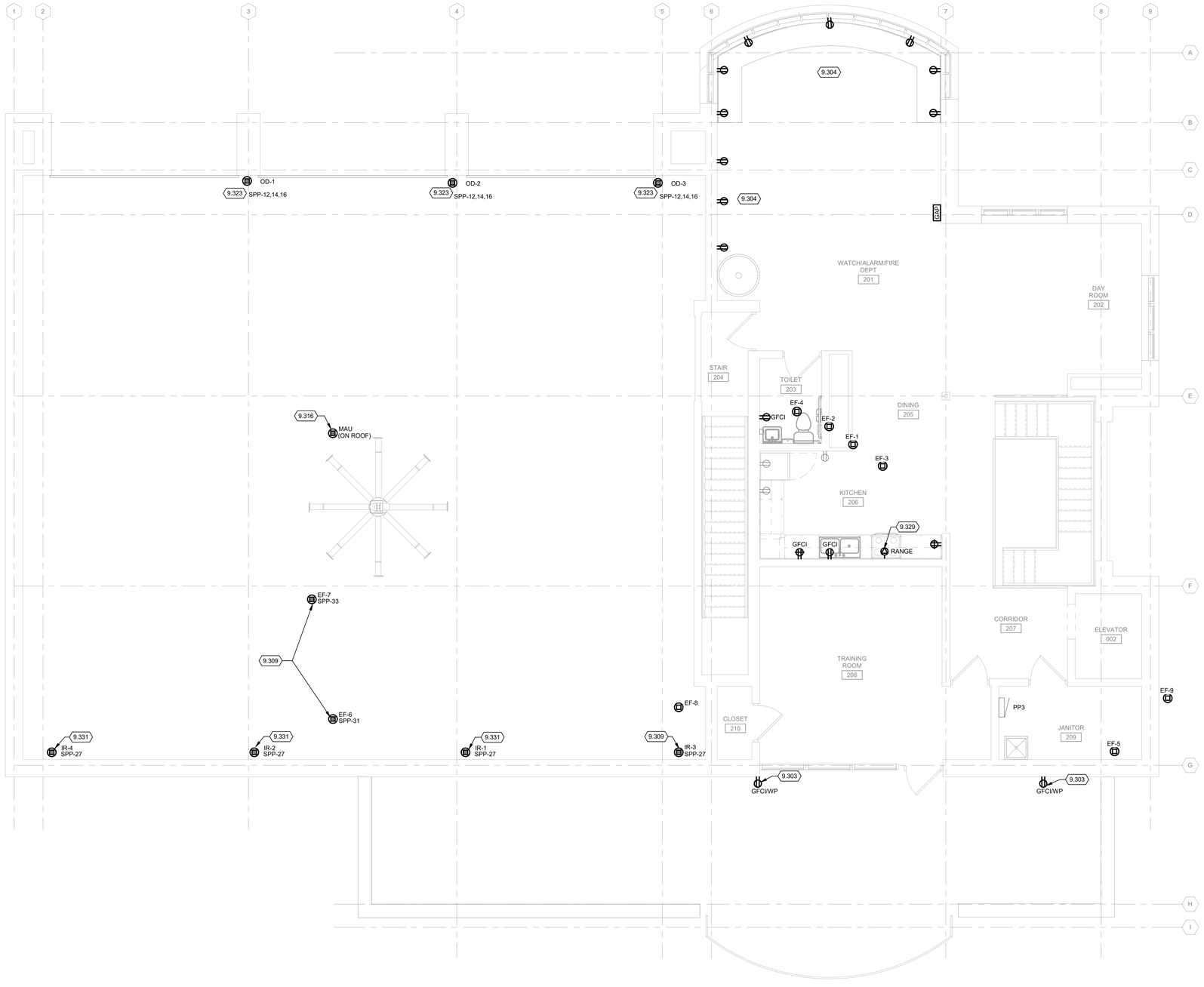
9.309 RECIRCUIT EF TO PANEL SPP. MATCH EXISTING CONDUIT AND CONDUCTOR SIZE.

9.316 RECIRCUIT MAU FROM PANEL PP1-25,27,29 TO PANEL SPP. RELABEL ASSOCIATED CIRCUIT IN PANEL SCHEDULE TO "SPARE" AND SWITCH CIRCUIT BREAKER TO THE "OFF" POSITION. MATCH EXISTING CONDUIT AND CONDUCTOR SIZE.

9.323 SEE E-101 FOR DISCONNECT SWITCH AND DOOR CONTROL LOCATION. REFER TO SPECIFICATION 083613 FOR MORE INFORMATION ON OVERHEAD DOORS.

9.329 ROUTE REUSED EXISTING RANGE BRANCH CIRCUIT FROM JUNCTION BOX TO NEW RANGE RECEPTACLE. NEW RANGE RECEPTACLE SHALL MATCH REMOVED RANGE RECEPTACLE SPECS (AMPACITY, RECEPTACLE CONFIGURATION, ETC.) OVEN/STOVE PROVIDED BY OWNER.

9.331 RECIRCUIT IR TO PANEL SPP. MATCH EXISTING CONDUIT AND CONDUCTOR SIZE.



TRUE NORTH PLAN NORTH

1 **SECOND FLOOR POWER PLAN**
1/4" = 1'-0"

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SHEET CONTENTS
SECOND FLOOR POWER PLAN

SHEET NO.:

E-102

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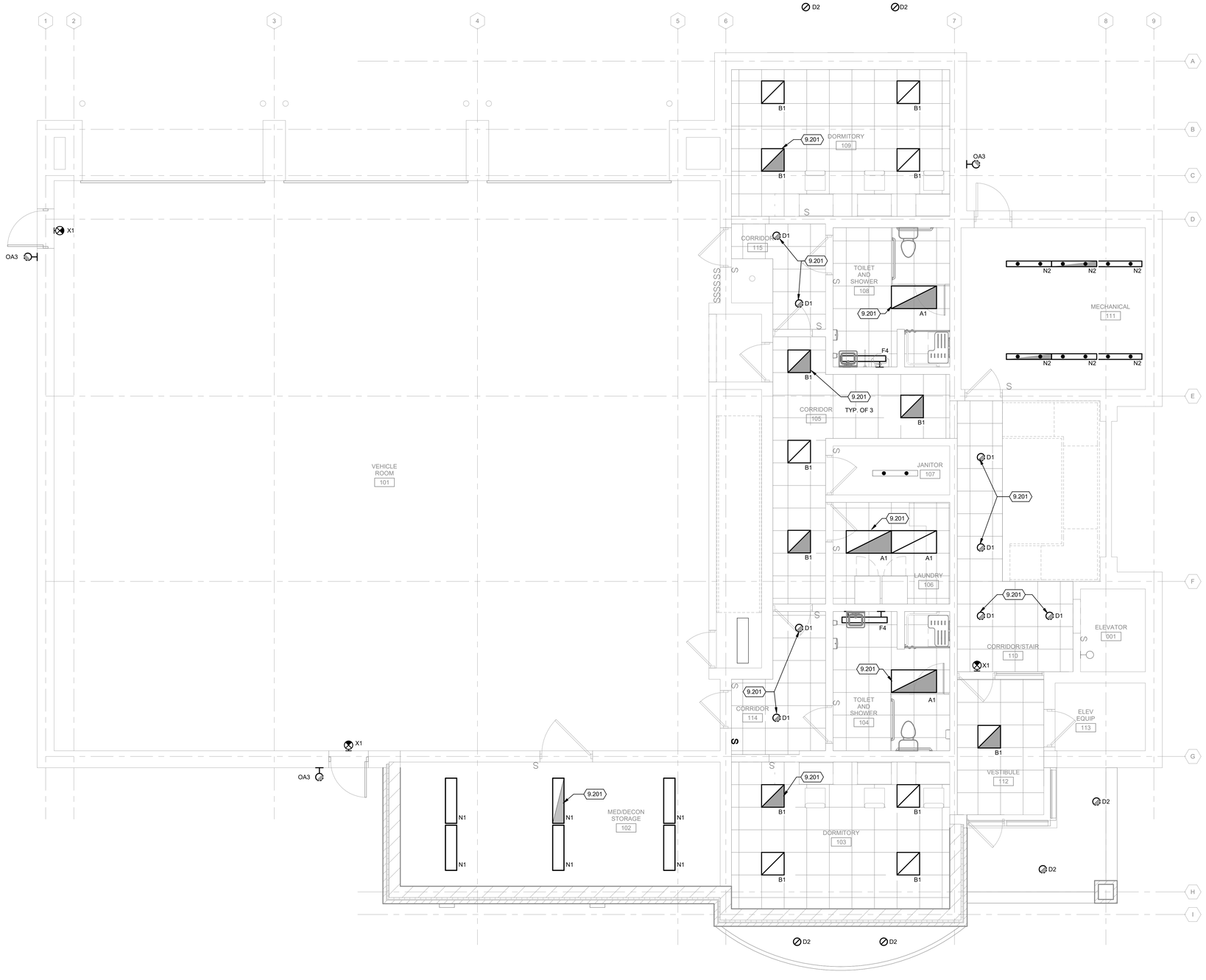

TRUE NORTH PLAN NORTH

1 **FIRST FLOOR LIGHTING PLAN**

1/4" = 1'-0"

GENERAL NOTES:

1. EXTEND AN UNSWITCHED PORTION OF THE CIRCUIT SERVING THE AREA AND/OR SPACE TO EBU(S) AND/OR EMERGENCY INVERTER/DRIVER WHERE INDICATED, SO THAT UPON LOSS OF NORMAL POWER LUMINAIRE(S) OPERATES FROM LIGHT INVERTER.
2. COORDINATE EGRESS LIGHTING AND EXIT REQUIREMENTS WITH ARCHITECTURAL LIFE SAFETY PLANS.
3. ALL EXIT SIGNS TO BE MOUNTED AT 8'-0" AFF UNLESS NOTED OTHERWISE AND WIRED TO EMERGENCY CIRCUIT SERVING THE AREA.
4. LOCATE ALL PT'S IN ELECTRICAL ROOM AND LABEL WHAT LIGHTS IT SERVES. LOCATION OF PT'S SHOWN ON PLANS ARE DIAGRAMMATIC AND DO NOT SUGGEST THE ACTUAL QUANTITY REQUIRED. (1) PT IS REQUIRED PER SWITCH/SENSOR CONTROLLED AREA.
5. COORDINATE UNDERCABINET LUMINARIES WITH ARCHITECTURAL ELEVATIONS. INSTALL UNDERCABINET LUMINAIRES TOWARDS FRONT FACE UNDER CASEWORK. CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT WITHIN THE ROOM.
6. ALIGN WALL DEVICES VERTICALLY WHERE DEVICES SHOWN NEAR EACH OTHER HAVE DIFFERENT MOUNTING HEIGHTS.
7. LIGHT SWITCHES SHALL BE MOUNTED ON LATCH SIDE OF DOOR WITHIN 12" OF DOOR IN OPEN POSITION. COORDINATE LOCATION WITH OTHER WALL DEVICES PRIOR TO ROUGH-IN.
8. ALL WALL-MOUNTED LUMINAIRE MOUNTING HEIGHTS SHOWN ON PLANS ARE MEASURED AFF TO BOTTOM OF LUMINAIRE, UNLESS NOTED OTHERWISE.

SHEET NOTES:

1. ALL NORMAL 120V LIGHTS SHALL BE FED FROM SAME PANEL AS EXISTING UNLESS NOTED OTHERWISE.
2. ALL EGRESS LIGHTING SHALL HAVE A SECONDARY BRANCH CIRCUIT FED FROM THE NEW 5KW CENTRAL INVERTER IN ADDITION TO THE EXISTING CIRCUIT.

KEYED NOTES

9.201 PROVIDE NEW CONDUIT AND EMERGENCY BRANCH CIRCUIT FROM CENTRAL INVERTER PANEL (MECH RM 111) TO DESIGNATED EMERGENCY LIGHT FIXTURES. MAINTAIN EXISTING NORMAL BRANCH CIRCUIT AND LIGHTING CONTROLS FOR NORMAL OPERATION. COORDINATE FIXTURE CONNECTIONS TO ENSURE NORMAL LIGHTING OPERATION ON NORMAL POWER AND EMERGENCY OPERATION FROM INVERTER UPON LOSS OF NORMAL POWER. MATCH EXISTING CONDUCTOR SIZE AND CONDUIT WHERE FEASIBLE.

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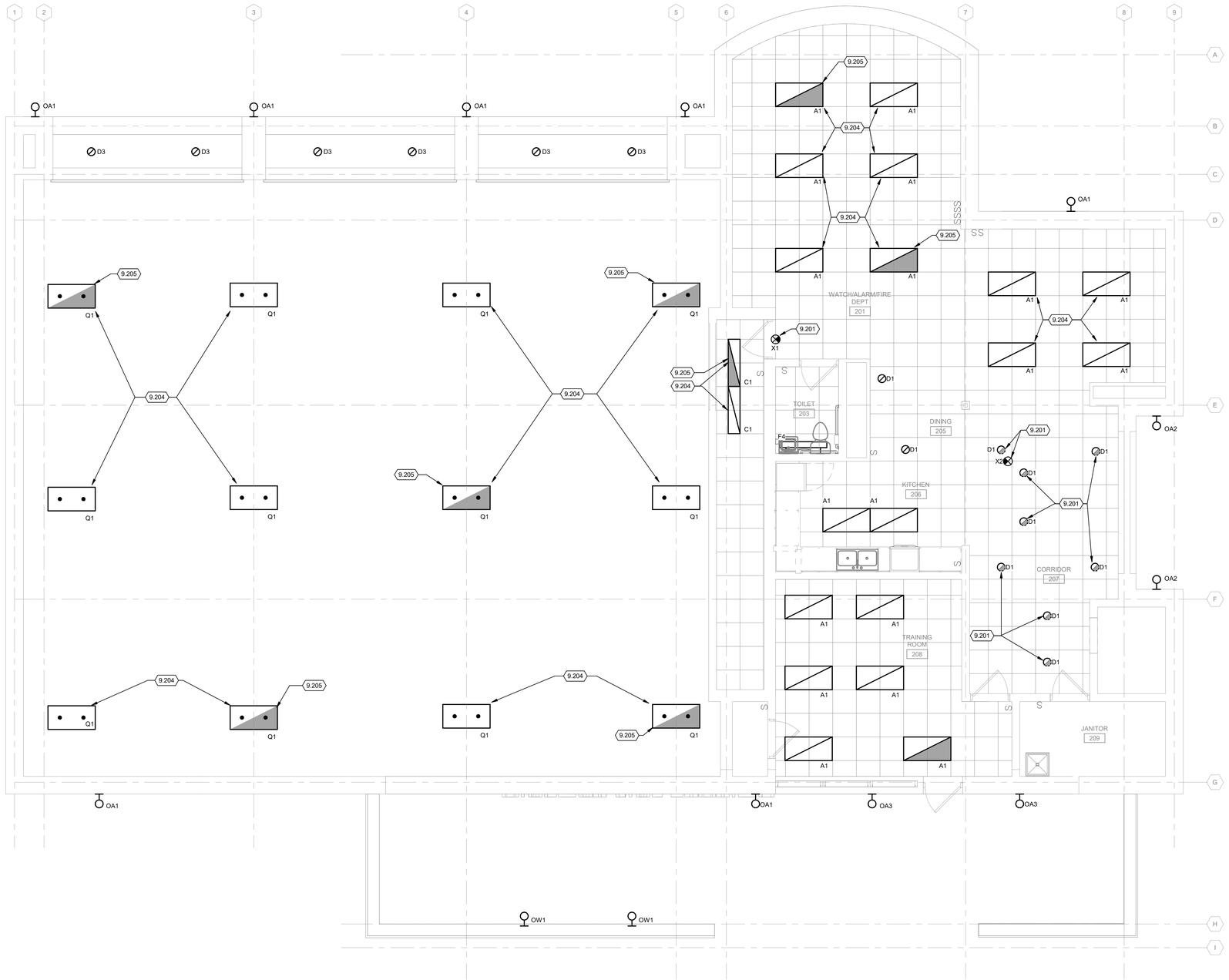
SHEET CONTENTS
FIRST FLOOR LIGHTING PLAN

SHEET NO.:

E-121



TRUE NORTH PLAN NORTH

SECOND FLOOR LIGHTING PLAN

1/4" = 1'-0"

GENERAL NOTES:

1. EXTEND AN UNSWITCHED PORTION OF THE CIRCUIT SERVING THE AREA AND/OR SPACE TO EBU(S) AND/OR EMERGENCY INVERTER/DRIVER WHERE INDICATED, SO THAT UPON LOSS OF NORMAL POWER LUMINAIRE(S) OPERATES FROM LIGHT INVERTER.
2. COORDINATE EGRESS LIGHTING AND EXIT REQUIREMENTS WITH ARCHITECTURAL LIFE SAFETY PLANS.
3. ALL EXIT SIGNS TO BE MOUNTED AT 8'-0" AFF UNLESS NOTED OTHERWISE AND WIRED TO EMERGENCY CIRCUIT SERVING THE AREA.
4. LOCATE ALL PT'S IN ELECTRICAL ROOM AND LABEL WHAT LIGHTS IT SERVES. LOCATION OF PT'S SHOWN ON PLANS ARE DIAGRAMMATIC AND DO NOT SUGGEST THE ACTUAL QUANTITY REQUIRED. (1) PT IS REQUIRED PER SWITCH/SENSOR CONTROLLED AREA.
5. COORDINATE UNDERCABINET LUMINARIES WITH ARCHITECTURAL ELEVATIONS. INSTALL UNDERCABINET LUMINAIRES TOWARDS FRONT FACE UNDER CASEWORK. CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT WITHIN THE ROOM.
6. ALIGN WALL DEVICES VERTICALLY WHERE DEVICES SHOWN NEAR EACH OTHER HAVE DIFFERENT MOUNTING HEIGHTS.
7. LIGHT SWITCHES SHALL BE MOUNTED ON LATCH SIDE OF DOOR WITHIN 12" OF DOOR IN OPEN POSITION. COORDINATE LOCATION WITH OTHER WALL DEVICES PRIOR TO ROUGH-IN.
8. ALL WALL-MOUNTED LUMINAIRE MOUNTING HEIGHTS SHOWN ON PLANS ARE MEASURED AFF TO BOTTOM OF LUMINAIRE, UNLESS NOTED OTHERWISE.

KEYED NOTES

9.201 PROVIDE NEW CONDUIT AND EMERGENCY BRANCH CIRCUIT FROM CENTRAL INVERTER PANEL (MECH RM 111) TO DESIGNATED EMERGENCY LIGHT FIXTURES. MAINTAIN EXISTING NORMAL BRANCH CIRCUIT AND LIGHTING CONTROLS FOR NORMAL OPERATION. COORDINATE FIXTURE CONNECTIONS TO ENSURE NORMAL LIGHTING OPERATION ON NORMAL POWER AND EMERGENCY OPERATION FROM INVERTER UPON LOSS OF NORMAL POWER. MATCH EXISTING CONDUCTOR SIZE AND CONDUIT WHERE FEASIBLE.

9.204 RECIRCUIT DESIGNATED LIGHT FIXTURES FROM NEW PANEL SPP IN MECHANICAL ROOM 111. MATCH EXISTING CONDUCTOR SIZE AND CONDUIT WHERE FEASIBLE.

9.205 PROVIDE NEW CONDUIT AND EMERGENCY BRANCH CIRCUIT FROM CENTRAL INVERTER PANEL (MECH RM 111) TO DESIGNATED EMERGENCY LIGHT FIXTURES. COORDINATE FIXTURE CONNECTIONS TO ENSURE NORMAL LIGHTING OPERATION ON NORMAL POWER AND EMERGENCY OPERATION FROM INVERTER UPON LOSS OF NORMAL POWER. MATCH EXISTING CONDUCTOR SIZE AND CONDUIT WHERE FEASIBLE.

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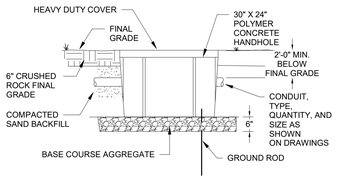
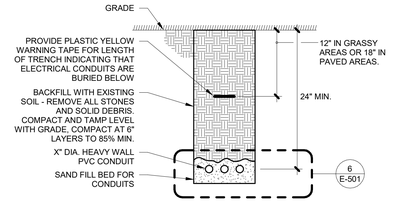
SHEET CONTENTS
SECOND FLOOR LIGHTING PLAN

SHEET NO.:

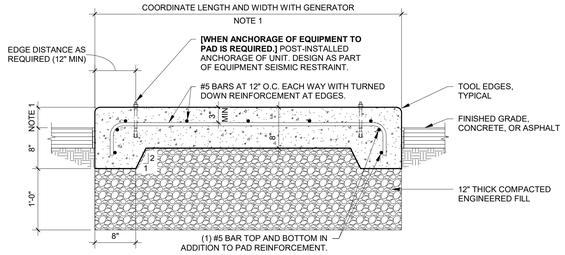
E-122



4 HANDHOLE
NO SCALE

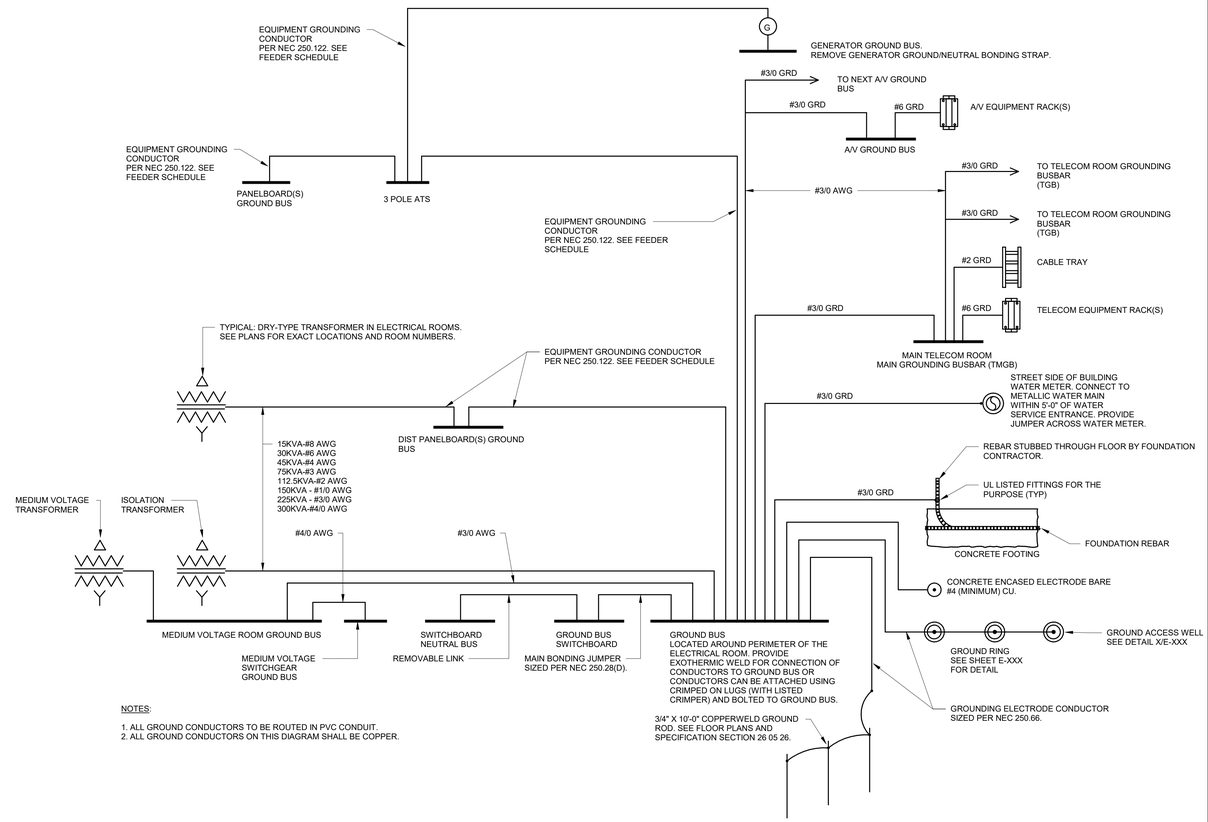


3 CONDUIT TRENCH DETAIL
NO SCALE



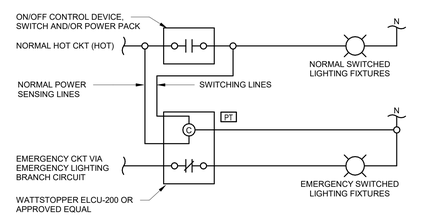
NOTES:
1. TOP OF CONCRETE PAD MUST BE APPROXIMATELY 8" ABOVE FINISHED GRADE WITH GRADUAL SLOPE FOR DRAINAGE. EDGES ABOVE GRADE MUST HAVE 1/2" CHAMFER. GENERATOR PAD MUST BE OF ADEQUATE SIZE TO PROJECT AT LEAST 6" BEYOND THE GENERATOR ON ALL SIDES.
2. STUB UP CONDUITS WITH BUSHINGS 2" INTO CONDUIT STUB UP AREA IN THE CONCRETE PAD. COORDINATE DIMENSIONS OF CONDUIT STUB UP AREA WITH GENERATOR.
3. COMPLY WITH REQUIREMENTS FOR EQUIPMENT BASES AND FOUNDATIONS AS SPECIFIED IN SECTION 033000 - CAST IN-PLACE CONCRETE.

5 EXTERIOR GENERATOR PAD DETAIL
NO SCALE



NOTES:
1. ALL GROUND CONDUCTORS TO BE ROUTED IN PVC CONDUIT.
2. ALL GROUND CONDUCTORS ON THIS DIAGRAM SHALL BE COPPER.

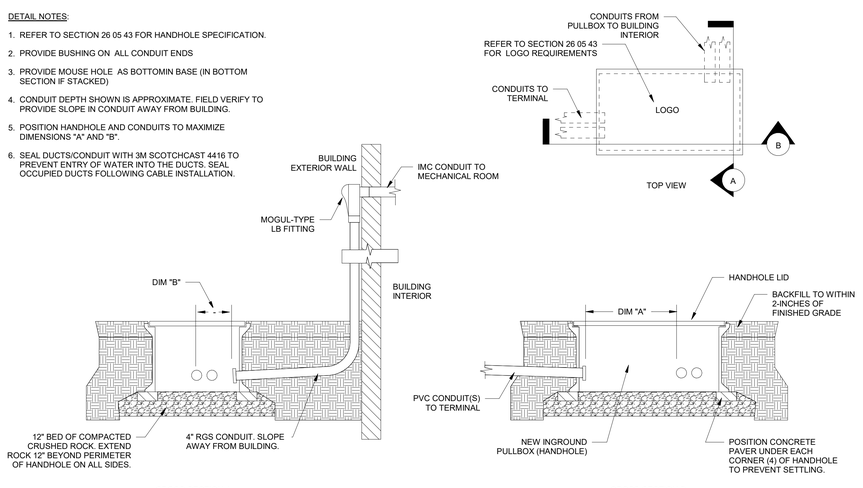
1 GROUNDING SYSTEM DETAIL (TYP)
NO SCALE



NOTES:
1. WIRE COMPLETE PER MANUFACTURERS WIRING DIAGRAM.
2. DIAGRAMS INDICATE CONTROL INTENT ONLY. REFER TO FLOOR PLANS FOR DEVICE AND FIXTURE QUANTITIES. PROVIDE ONE (1) TRANSFER DEVICE PER 20A BRANCH CIRCUIT.
3. EMERGENCY LIGHTING TRANSFER DEVICE SHALL MONITOR THE UNSWITCHED NORMAL POWER CIRCUIT THAT IS CONNECTED TO. UPON LOSS OF NORMAL POWER, DEVICE SHALL FORCE ON EMERGENCY POWER AND TURN ON ALL FIXTURES SERVED FROM EMERGENCY CIRCUIT UNLESS NOTED OTHERWISE. RATED 120VAC, 20A, UL 924 AND 5 YEAR WARRANTY.
4. MOUNT EMERGENCY TRANSFER DEVICE ABOVE ACCESSIBLE CEILING AS SHOWN ON FLOOR PLANS.

6 EMERGENCY TRANSFER DEVICE LIGHTING CONTROL DIAGRAM
NO SCALE

DETAIL NOTES:
1. REFER TO SECTION 26 05 43 FOR HANDHOLE SPECIFICATION.
2. PROVIDE BUSHING ON ALL CONDUIT ENDS
3. PROVIDE MOUSE HOLE AS BOTTOMIN BASE (IN BOTTOM SECTION IF STACKED)
4. CONDUIT DEPTH SHOWN IS APPROXIMATE. FIELD VERIFY TO PROVIDE SLOPE IN CONDUIT AWAY FROM BUILDING.
5. POSITION HANDHOLE AND CONDUITS TO MAXIMIZE DIMENSIONS "A" AND "B".
6. SEAL DUCTS/CONDUIT WITH 3M SCOTCHCAST 4416 TO PREVENT ENTRY OF WATER INTO THE DUCTS. SEAL OCCUPIED DUCTS FOLLOWING CABLE INSTALLATION.



2 UNDERGROUND BOX (HANDHOLE) DETAIL - ANGLE PULL - PLN
NO SCALE

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SHEET CONTENTS
DETAILS

SHEET NO.:
E-501

LUMINAIRE SCHEDULE

DES	DESCRIPTION	LED DATA	VOLTAGE	MOUNTING	DRIVER TYPE	FIXTURE DEPTH	WATTS	LUMENS	ACCEPTABLE MANUFACTURERS	KEYED NOTES
A1	2X4 RECESSED FLAT PANEL LED	LED, 3500K	120 V	R	A	2 1/4"	39 W	5100	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
B1	2X2 RECESSED FLAT PANEL LED	LED, 3500K	120 V	R	A	2 1/4"	32 W	4070	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
C1	1x4 RECESSED LED PANEL	LED, 3500K	120 V	R		2 1/4"	29 W	4000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
D1	6" ROUND DOWNLIGHT	LED, 3500K	120 V	R	A	6 1/2"	44 W	4000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
D2	6" ROUND DOWNLIGHT	LED, 3000K	120 V	R	A	6 1/2"	54 W	6000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
D3	8" LED DOWNLIGHT	LED, 3000K	120 V	R		6 1/2"	106 W	1000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
F4	4' WALL MOUNTED LED FIXTURE	LED, 3500K	120 V	W		6"	34 W	3500	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
N1	4' LED WRAP, MEDIUM BODY, FLAT MICROPRISMATIC DIFFUSER	LED, 4000K	120 V	S		6"	52 W	6000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
N2	4' LED INDUSTRIAL PENDANT W/ AIRCRAFT CABLE	LED, 4000K	120 V	P		2"	29 W	4000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
OA1	LED WALL PACK TYPE IV DISTRIBUTION	LED, 3000K	120 V	W		4"	15 W	2000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
OA2	6" ROUND CYLINDER 20 DEGREE BEAM	LED, 3000K	120 V	W		4"	15 W	2000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
OA3	6" ROUND CYLINDER TYPE 4	LED, 3000K	120 V	W		4"	15 W	2000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
OW1	LED FLOODLIGHT	LED, 3000K	120 V	W	A	4"	21 W	2000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
Q1	4' LED HIGH BAY LUMINAIRE	LED, 3500K	120 V	P	A	2"	133 W	24000	LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
X1	LED EXIT	W/ UNIT	120 V	UNV			VARIES		LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	
X2	LED EXIT	W/ UNIT	120 V	UNV			0 W		LITHONIA, ENTERPRISE, SPECTRUM, MLAZGAR	

MOUNTING (MTG):

CV = COVE
ES = EXPOSED STRUCTURE
O = OTHER
P = PENDANT
PL = POLE
R = RECESSED
S = SURFACE
SP = SUSPENDED
UC = UNDERCOUNTER
V = VARIES
W = WALL MOUNTED

BALLAST/DRIVER: (SEE SPECIFICATIONS)

A LED DIMMABLE DRIVER (0-10V) - 10% DIM

B LED DIMMABLE DRIVER (0-10V) - 1% DIM

C LED DIMMABLE DRIVER (ELV)

D LED NON-DIMMABLE DRIVER

E EMERGENCY **(BATTERY) (DRIVER)**

F LED STEP-DIMMING DRIVER

G DALI DIMMING DRIVER

H LED DMX DRIVER

J MULTI-VOLTAGE DRIVER

LUMINAIRE SCHEDULE GENERAL NOTES:

1. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION BEFORE ORDERING.
2. ALL LED LUMINAIRES MUST COMPLY WITH LM-79 AND LM-80 TESTING STANDARDS. L70 LIFE SHALL HAVE A MINIMUM OF 50,000 HOURS.
3. ANY PROPOSED SUBSTITUTIONS MUST BE SUBMITTED WITH PHOTOMETRIC CALCULATIONS AND CATALOG DATA SHEETS TO PROVE EQUAL CHARACTERISTICS. PROVIDE PHYSICAL SAMPLES OF PROPOSED SUBSTITUTIONS UPON REQUEST.
4. EC SHALL VERIFY AND COORDINATE ALL LUMINAIRE TRIMS/FLANGES WITH CEILING TYPES SUBMITTED BY THE GC PRIOR TO ORDERING LUMINAIRES. SCHEDULE INDICATES TRIM TYPES BASED ON THE GENERIC CEILING INFORMATION AVAILABLE AT THE TIME DOCUMENTS WERE ISSUED AND DOES NOT REFLECT ACTUAL THICKNESS OF GYPSUM WALL BOARD OR PLASTER CEILING OR EXACT GRID TYPE SPECIFIED BY THE ARCHITECT.

LUMINAIRE SCHEDULE KEYED NOTES:

1. COORDINATE LUMINAIRE MOUNTING AND DIRECTIONAL ARROWS WITH PLANS PRIOR TO ORDERING.
2. WET LOCATION LISTED.
3. PERIMETER FIXTURE SHALL BE WALL TO WALL INSTALLATION. LUMINAIRES SHALL BE PROVIDED WITH SLIDING SLEEVE OR EXACT MEASUREMENTS TAKEN IN FIELD PRIOR TO RELEASING ORDER.
4. EQUAL LUMINAIRES SHALL BE LESS THAN 4" DEEP AND IMPACT RESISTANT. MOUNT LUMINAIRES 6" ABOVE PIT FLOOR. 10FC MINIMUM MAINTAINED ON PIT FLOOR REQUIRED BY CODE AND 19FC MINIMUM MAINTAINED AT THE TOP OF THE SHAFT WHERE ELEVATOR EQUIPMENT IS LOCATED. EQUAL LUMINAIRES MAY REQUIRE ADDITIONAL LUMINAIRES OR ALTERNATE LAYOUTS TO MEET PERFORMANCE REQUIREMENTS.

PANEL NAME: PP2

EXISTING

BUS AMPACITY: 225 A
MAIN TYPE: MCB
MAIN RATING: 225 A
S.C.C.R RATING:
NOTES: EXISTING

VOLTAGE: 120/208 WYE
PHASE: 3
WIRES: 4
FEED-THRU LUGS:

PANEL SOURCE:
LOCATION: JANITOR 107
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

KEY	CKT	LOAD DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	LOAD DESCRIPTION	CKT	KEY
	1	DORM RECEPTS WEST	20 A	1	0 0			1	20 A	WASHER RECEPT	2	
	3	BATH/HALL/GARAGE RECEPTS	20 A	1		0 0		1	20 A	LAUNDRY ROOM RECEPTS	4	
	5	SPARE	20 A	1			0 0	1	20 A	BATH/HALL/GARAGE RECEPTS	6	
	7	DORM-WEST, JAN & LAUNDRY RM...	20 A	1	0 0			1	20 A	DORM RECEPTS-EAST	8	
	9	DORM LIGHTS-EAST	20 A	1		0 0		1	20 A	PANEL RECEPT	10	
	11	BATH/ELEVATOR EQUIP. RECEPTS	20 A	1			0 0	1	20 A	SPARE	12	
	13	ELEVATOR EQUP RECEPTS	20 A	1	0 0			1	20 A	SPARE	14	
	15	ELEVATOR PIT & HALL RECEPTS	20 A	1		0 0		1	20 A	SPARE	16	
	17	SPARE	20 A	1			0 0	1	20 A	SPARE	18	
	19	SPARE	20 A	1	0 0			1	20 A	MECH RM RECEPTS	20	
	21	SPARE	20 A	1		0 0		1	20 A	MECH RM SF/EF	22	
	23	DRYER	30 A	2			0 0	1	20 A	MECH RM SF/EF	24	
	25				0 0			1	20 A	SPARE	26	
	27	ENTRY ELECT HEAT	20 A	2		0 0		1	20 A	SPARE	28	
	29						0 0	1	20 A	SUMP RECEPT	30	
	31				0 0						32	
	33	ACCU-1A	30 A	3		0 0		3	40 A	ACCU-1B	34	
	35						0 0				36	
	37				0						38	
	39					0		3	40 A	ACCU-2	40	
	41						0				42	
			TOTAL LOAD:		0 VA	0 VA	0 VA			TOTAL CONNECTED AMPS:	0 A	
			TOTAL AMPS:		0 A	0 A	0 A			TOTAL DEMAND AMPS:	0 A	

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PANEL NAME: PP3

EXISTING

BUS AMPACITY: 100 A
MAIN TYPE: MCB
MAIN RATING: 100 A
S.C.C.R RATING:
NOTES: EXISTING

VOLTAGE: 120/208 WYE
PHASE: 3
WIRES: 4
FEED-THRU LUGS:

PANEL SOURCE:
LOCATION: JANITOR 209
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

KEY	CKT	LOAD DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	LOAD DESCRIPTION	CKT	KEY
	1	OUTSIDE DECK LIGHTS	20 A	1	0 0			1	20 A	KITCHEN RECEPTS	2	
	3	TRAINING RM LIGHTS	20 A	1		0 0		1	20 A	GARBAGE/DISHWASHER RECEPT	4	
	5	TRAINING RM DECK LIGHTS	20 A	1			0 0	1	20 A	KITCHEN RECEPTS	6	
	7	TRACK LIGHTING	20 A	1	0 0			1	20 A	DINING & BATH RECEPTS	8	
	9	TRACK LIGHTING	20 A	1		0 0		1	20 A	DAY RM RECEPTS	10	
	11	SPARE	20 A	1			0 0	1	20 A	KITCHEN / DINING / DAY RM LIGHTS	12	
	13	SPARE	20 A	1	0 0			1	20 A	JANITOR ROOM RECEPT	14	
	15	SPARE	20 A	1		0 0		1	20 A	SPARE	16	
	17	SPARE	20 A	1			0 0	1	20 A	SPARE	18	
	19	GARAGE FLOOD LIGHTS	20 A	1	0 0			1	20 A	SPARE	20	
	21	GARAGE SOFFIT LIGHTS	20 A	1		0 0		1	20 A	SPARE	22	
	23	NORTH OUTSIDE LIGHTS	20 A	1			0 0				24	
	25	SOUTH OUTSIDE LIGHTS	20 A	1	0 0			2	50 A	RANGE RECEPT	26	
	27	SPARE	20 A	1		0					28	
	29	SPACE	--	1			--				30	
	31				0						32	
	33	MAIN BREAKER	100 A	3		0					34	
	35						0				36	
	37										38	
	39										40	
	41										42	
			TOTAL LOAD:		0 VA	0 VA	0 VA			TOTAL CONNECTED AMPS:	0 A	
			TOTAL AMPS:		0 A	0 A	0 A			TOTAL DEMAND AMPS:	0 A	

KEY: A = HACR; C = THRU CONTACTOR; E = EXISTING BREAKER; G = GFCI; H = HANDLE LOCK; I = ISOLATED GROUND; P = PADLOCK HASP; S = SHUNT TRIP

PANEL NAME: SPP

BUS AMPACITY: 225 A
MAIN TYPE: MCB
MAIN RATING: 125 A
S.C.C.R RATING: 14 kA
NOTES: NEW

VOLTAGE: 120/208 WYE
PHASE: 3
WIRES: 4
FEED-THRU LUGS:

PANEL SOURCE: PANEL PP1
LOCATION: MECHANICAL 111
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

KEY	CKT	LOAD DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	LOAD DESCRIPTION	CKT	KEY
	1	WATCH ROOM & GARAGE STAIR LIGHTS	20 A	1	707 1000			1	20 A	FACP	2	
	3	MECH LIGHTS	20 A	1		193 0		1	20 A	2 FI. CAN LIGHTS	4	
	5	RADIO DESK/WESTWALL RECEPTS	20 A	1			900 0	1	20 A	1 FI. CAN LIGHTS	6	
	7	FURNACE #1	20 A	1	1600						8	
	9	FURNACE #2	20 A	1		1600 0		1	20 A	ELEVATOR LIGHTS	10	
	11	FURNACE #1B	20 A	1			1600 1200				12	
	13	RECEPT	20 A	1	180 1200			3	15 A	(OD-1,2,3) GARAGE DOOR CONTROL	14	
	15	RADIO DESK RECEPTS	20 A	1		900 1200					16	
	17						0 180	1	20 A	WATCH ROOM RECEPTS	18	
	19	MAU	20 A	3	0 180			1	20 A	WATCH ROOM RECEPTS	20	
	21					0 180		1	20 A	WATCH ROOM RECEPTS	22	
	23	GENERATOR LOAD CENTER	60 A	2			50 180	1	20 A	WATCH ROOM RECEPTS	24	
	25				50 360			1	20 A	IT RECEPT	26	
	27	INFRARED HEATERS	20 A	1		0					28	
	29						180	1	20 A	FIRE TRUCK RECEPT	30	
	31	EF-6	20 A	1	0 180			1	20 A	FIRE TRUCK RECEPT	32	
	33	EF-7	20 A	1		0					34	
	35										36	
	37				0						38	
	39	SPD	30 A	3		0					40	
	41						0				42	
			TOTAL LOAD:		5,395 VA	4,055 VA	4,290 VA			TOTAL CONNECTED AMPS:	36 A	
			TOTAL AMPS:		45 A	34 A	36 A			TOTAL DEMAND AMPS:	39 A	

KEY: A = HACR; C = THRU CONTACTOR; E = EXISTING BREAKER; G = GFCI; H = HANDLE LOCK; I = ISOLATED GROUND; P = PADLOCK HASP; S = SHUNT TRIP

PANEL NAME: PP1

EXISTING

BUS AMPACITY: 400 A
MAIN TYPE: MCB
MAIN RATING: 400 A
S.C.C.R RATING:
NOTES: EXISTING

VOLTAGE: 120/208 WYE
PHASE: 3
WIRES: 4
FEED-THRU LUGS:

PANEL SOURCE:
LOCATION: MED/DECON STORAGE 102
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

KEY	CKT	LOAD DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	LOAD DESCRIPTION	CKT	KEY
	1	GARAGE LIGHTS	20 A	1	0 0			1	20 A	GARAGE EXTERIOR RECEPTS	2	
	3	GARAGE LIGHTS	20 A	1		0 0		1	20 A	GARAGE RECEPTS	4	
	5	GARAGE LIGHTS	20 A	1			0 0	1	20 A	GARAGE CEILING FANS/ROOF RECEPT	6	
	7	GARAGE LIGHTS	20 A	1	0 0			1	20 A	GARAGE IR HEATING	8	
	9	TELEPHONE OUTLET	20 A	1		0 0		1	20 A	SPARE	10	
	11	EF-8	20 A	1			0 0	1	20 A	SPARE	12	
	13				0			1	20 A	STORAGE RM RECEPTS	14	
	15					0 0		1	20 A	FIRE TRUCK AUX OUTLET	16	
	17	TVSS	30 A	3			0 0	1	20 A		18	
	19				0 0						20	
	21	ELECTRIC HEAT	30 A	2		0 0		3	20 A	BIG ASS FAN	22	
	23						0 0				24	
	25				0 0						26	
	27	SPARE	15 A	3		0 0		3	15 A	AIR COMPRESSOR	28	
	29						0 0				30	
	31				0 0						32	
	33	SPP PANEL	60 A	3		0 0		3	20 A	ELEVATOR EQUIPMENT	34	
	35						0 0				36	
	37				0						38	
	39	PP3 PANEL	60 A	3		0					40	
	41						0				42	
			TOTAL LOAD:		0 VA	0 VA	0 VA			TOTAL CONNECTED AMPS:	0 A	
			TOTAL AMPS:		0 A	0 A	0 A			TOTAL DEMAND AMPS:	0 A	

KEY: A = HACR; C = THRU CONTACTOR; E = EXISTING BREAKER; G = GFCI; H = HANDLE LOCK; I = ISOLATED GROUND; P = PADLOCK HASP; S = SHUNT TRIP

ELECTRICAL EQUIPMENT WIRING SCHEDULE

STARTER/TYPE:	DISCONNECT TYPE	ACCESSORIES (ACC):	
MS - MANUAL MOTOR STARTER (W/OVERLOAD RELAYS)	F-FUSED	SA-STANDARD ACCESSORIES (INCLUDES **ITEMS)	PF-PHASE FAILURE RELAY
MX - MANUAL MOTOR SWITCH	N- NON-FUSED	**AUX--TWO CONVERTIBLE AUXILIARY CONTACTS	TO-THERMAL OVERLOAD RELAYS
S - ENCLOSED FULL VOLTAGE MAGNETIC CONTROLLER	FS-BUSS FUSESTAT-TYPE SSY	**CT-CONTROL TRANSFORMER FUSED 120V	FA-4-CONVERTIBLE AUXILIARY CONTACTS
CS - COMBINATION FULL VOLTAGE MAGNETIC CONTROLLER	CB-ENCLOSED CIRCUIT BREAKER	**EO-ELECTRONIC OVERLOADS (SOLID-STATE)	GFP-CLASS II GROUND FAULT PROTECTION
RE - ENCLOSED REDUCED-VOLTAGE CONTROLLER	EFD-ELEVATOR FUSED DISCONNECT(SEE SPECIFICATION)	**HA-HAND-OFF-AUTO SWITCH IN DOOR	DC-DIGITAL COMMUNICATION MODULE
RE - COMBINATION REDUCED-VOLTAGE CONTROLLER		**PL-PILOT LIGHT(RED) IN DOOR	TS- 2-SPEED SELECTOR SWITCH IN DOOR
TW - MULTI 2 SPEED, 2 WINDING			EI-ELECTRICAL INTERLOCK (2) N.O. & (2) N.C
SW - MULTI 2 SPEED, 1 WINDING			SS-START-STOP PUSHBUTTON IN DOOR
VFD - VARIABLE FREQUENCY DRIVE			SN-SOLID NEUTRAL
SS - REDUCED VOLTAGE, SOLID STATE (SOFT START)			ST- SHUNT TRIP
RV - REDUCED VOLTAGE(AUTOXFMR)			GP- GREEN (OFF) PILOT LIGHT IN DOOR
YD - WYE-DELTA			ISG- ISOLATED GROUND KIT
FHP - INTERGAL HORSEPOWER MANUAL CONTROLLER			M-METER
ECM - ELECTRONICALLY COMMUTATED MOTOR			

EQUIPMENT	EQUIPMENT DESCRIPTION	LOCATION	LOAD							BRANCH WIRING				STARTER					DISCONNECT TYPE AND RATING			NEMA ENCLOSURE	KEYED NOTE(S)
			KW	HP	FLA (AMPS)	MCA (AMPS)	MOCP (AMPS)	VOLTS	PHASE	NO.	SIZE	GND.	C	TYPE	NEMA SIZE	FURNISHED/ INSTALLED BY	NEMA ENCLOSURE	ACC.	TYPE	RATING / FUSE	FURNISHED/ INSTALLED BY		
ACCU-2	AIR COOLED CONDENSING UNIT	EXTERIOR		1/4	17.4	23.5		208	3	3	10	10	3/4"	--	--	MFR	--	--	N	30	EC/EC	3R	
EF-6	EXHAUST FAN	ROOF		3/4	7.6			120	1	2	12	12	1/2	--	--	--	--	--	--	--	--		
EF-7	EXHAUST FAN	ROOF		1/2	5.4			120	1	2	12	12	1/2	--	--	--	--	--	--	--	--		
GF-1A	GAS FURNACE	MECH 111			6.8		15	120	1	2	12	12	1/2	--	--	MFR	1	--	--	--	--		
GF-1B	GAS FURNACE	MECH 111			6.8		15	120	1	2	12	12	1/2	--	--	MFR	1	--	--	--	--		
GF-2	GAS FURNACE	MECH 111			10.9		15	120	1	2	12	12	1/2	--	--	MFR	1	--	--	--	--		
IR-1	INFRARED HEATER	BAY 101						120	1	SEE DIV 23 SPECS AND DRAWINGS FOR INFORMATION.													
IR-2	INFRARED HEATER	BAY 101						120	1	SEE DIV 23 SPECS AND DRAWINGS FOR INFORMATION.													
IR-3	INFRARED HEATER	BAY 101						120	1	SEE DIV 23 SPECS AND DRAWINGS FOR INFORMATION.													
IR-4	INFRARED HEATER	BAY 101						120	1	SEE DIV 23 SPECS AND DRAWINGS FOR INFORMATION.													
MAU	MAKE-UP AIR UNIT	ROOF						208	3	3	12	12	1/2	SEE DIV 23 SPECS AND DRAWINGS FOR INFORMATION.									

EQUIPMENT SCHEDULE GENERAL NOTES:

1. ALL WORK BY THIS CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE AND NATIONAL ELECTRICAL CODES.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO AVOID CONFLICTS AND TO VERIFY ALL EQUIPMENT CONNECTIONS FOR COMPLETE INSTALLATION.
3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
4. PROVIDE ALL POWER WIRING INCLUDING ALL CIRCUITRY CARRYING ELECTRICAL ENERGY FROM PANELBOARD OR OTHER SOURCE THROUGH STARTERS AND DISCONNECTS TO MOTORS, PACKAGED EQUIPMENT OR PACKAGED CONTROL PANELS. PROVIDE ALL WIRING BETWEEN CONTROL PANELS AND MOTORS. INCLUDE STARTERS, DISCONNECTS AND OVERLOAD PROTECTION IF NOT INCLUDED IN DIVISION 22 OR 23 SPECIFICATIONS. COORDINATE WITH ALL DIVISION 22 AND 23 SPECIFICATIONS.
5. MOTORS CONNECTED TO EMERGENCY SYSTEMS. BRANCH CIRCUIT WIRING SHALL BE INSTALLED IN SEPARATE RACEWAY PER NEC ARTICLE 700.
6. THIS CONTRACTOR SHALL VERIFY WITH MECHANICAL CONTRACTOR, ELECTRICAL REQUIREMENTS INCLUDING VOLTAGES, HORSE POWER, DISCONNECTING MEANS, STARTERS FOR MOTORS AND EQUIPMENT PRIOR TO ORDERING CIRCUIT BREAKERS, FUSIBLE SWITCHES AND STARTERS.
7. ALL INTERLOCKING REQUIRED BY THE DRIVE MANUFACTURER BETWEEN THE VARIABLE FREQUENCY DRIVE AND THE DISCONNECT SWITCHES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
8. THIS CONTRACTOR SHALL PROVIDE ALL BRANCH CIRCUIT POWER WIRING BETWEEN NEW PACKAGED OUTDOOR AIR COOLED CONDENSING UNIT (ACCU) AND INDOOR FAN COIL UNIT (FCU) AS SHOWN ON FLOOR PLANS. THE TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING IN A SEPARATE CONDUIT BETWEEN THE OUTDOOR AND INDOOR UNITS AS REQUIRED BY THE SPECIFIC MANUFACTURER'S INSTALLATION WIRING DIAGRAMS .

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WISCONSIN
BRIAN L FULLER
E-45491
MADISON
WIS.
PROFESSIONAL ENGINEER
1/23/2026

LA CROSSE REGIONAL AIRPORT REHABILITATE ARFF BUILDING

BOA NO.: LSE1023
2841 Fanta Reed Rd
La Crosse, WI 54603

ISSUED

BOA NO.: LSE1023
M&H NO.: 2309930-201676.01
DATE: 01/23/2026
DESIGNED BY: RKK
DRAWN BY: RKK
CHECKED BY: BLF
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SCHEDULES

SHEET NO.:
E-601

KEYED NOTES

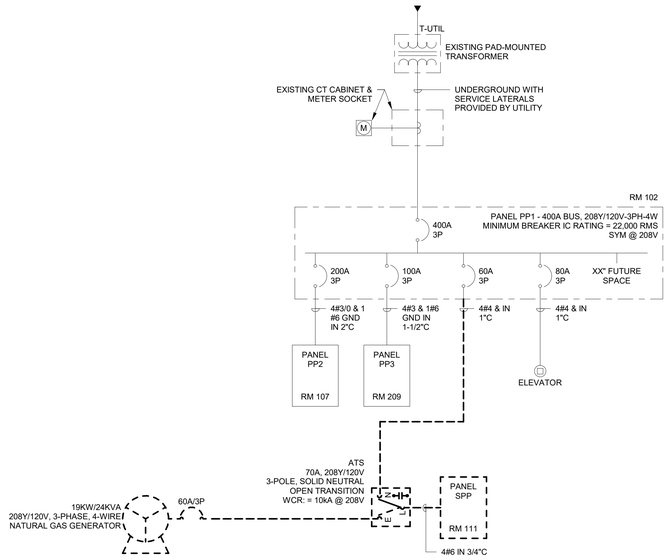
9.305 NEW GENERATOR ANNUNCIATOR PANEL IN MECH ROOM 111.

9.306 GENERATOR START CONTACT. PROVIDE STARTING CIRCUIT TO GENERATOR CONTROL PANEL IN 3/4" CONDUIT. THE INTEGRITY OF THE STARTING CIRCUIT SHALL BE CONTINUOUSLY MONITORED. LOSS OF INTEGRITY OF THE STARTING CIRCUIT SHALL INITIATE VISUAL AND AUDIBLE ANNUNCIATION AT THE GENERATOR AND AT THE REMOTE ANNUNCIATOR.

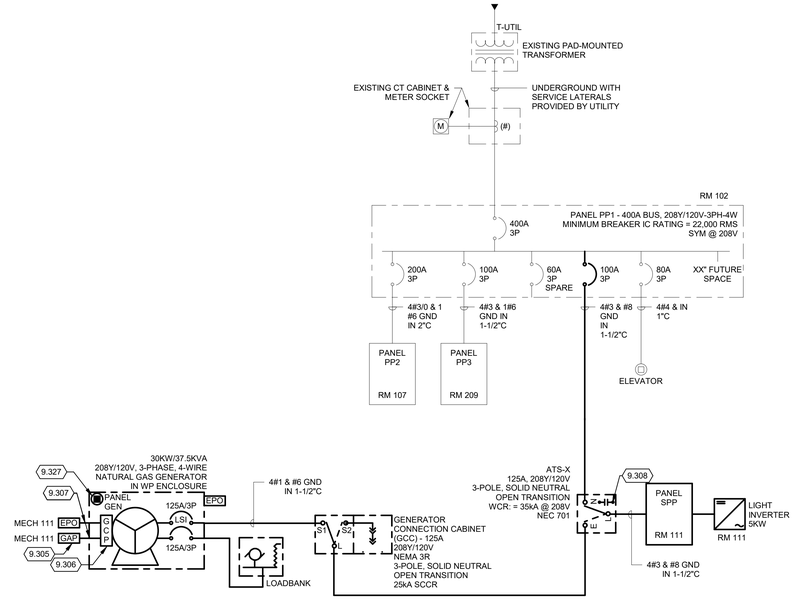
9.307 PROVIDE WIRING IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS IN 1"C.

9.308 PROVIDE 2 #12 AWG BETWEEN START CONTACTS ON TRANSFER SWITCH AND GENERATOR CONTROL PANEL.

9.327 PROVIDE (3) #8 AWG CONDUCTORS AND (1) #10 AWG EQUIPMENT GROUNDING CONDUCTOR IN 1-1/4" CONDUIT FROM PANEL SPP IN MECHANICAL ROOM 111 TO GENERATOR-INTEGRAL LOAD CENTER.



1 **ONE-LINE POWER DIAGRAM - DEMOLITION**
NO SCALE



2 **ONE-LINE POWER DIAGRAM**
NO SCALE

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SHEET CONTENTS
ONE-LINE DIAGRAM

SHEET NO.:

E-701