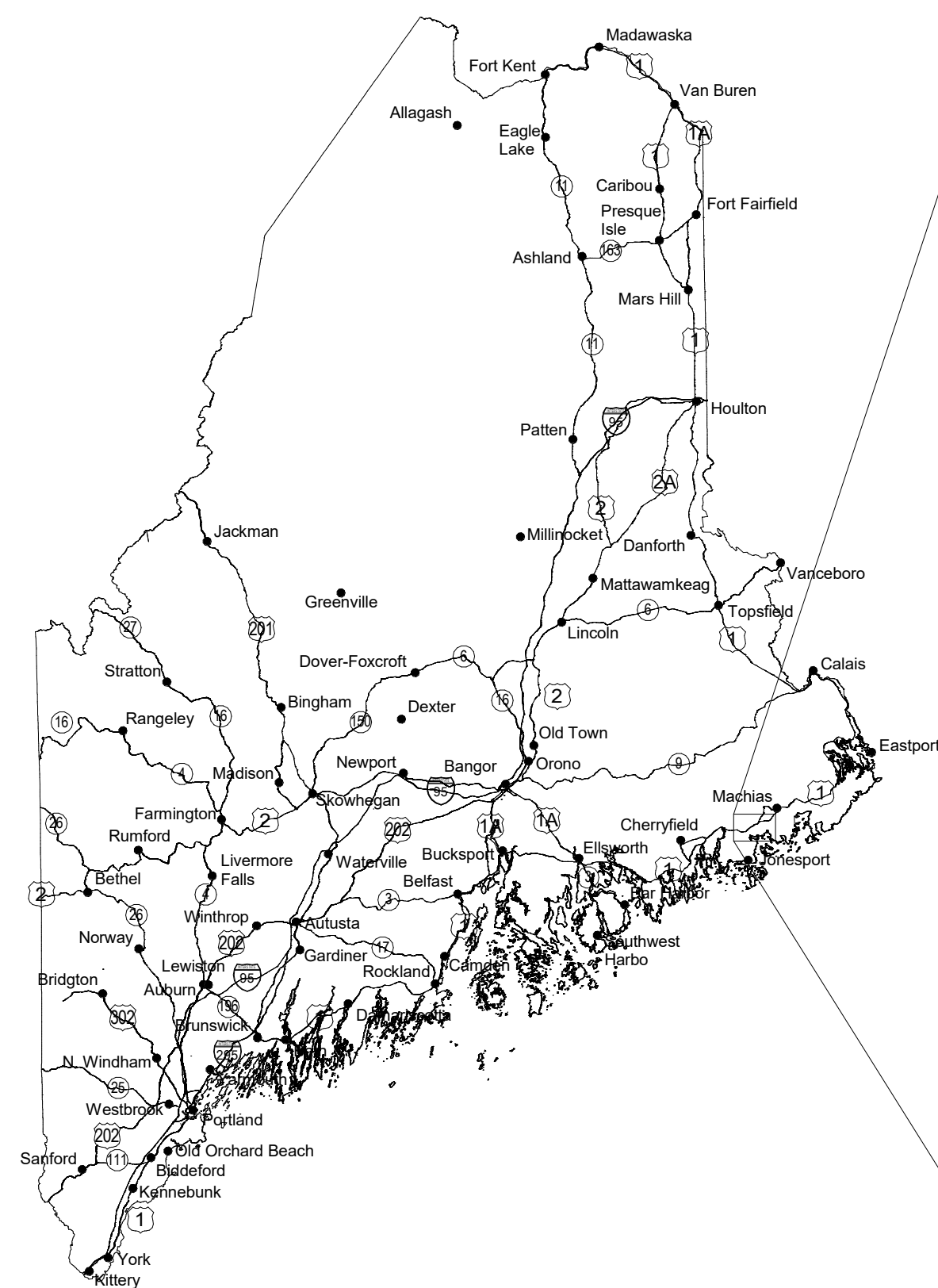


MAINE IF&W HEAT PUMP & ELECTRICAL UPGRADES

JONESBORO, MAINE



DRAWING LIST				
SHEET NUMBER	SHEET TITLE	REVISION	DATE	DESCRIPTION
M-001	MECHANICAL NOTES, SYMBOLS & ABBREVIATIONS			
M-101	MECHANICAL BASEMENT PLAN			
M-102	MECHANICAL FIRST FLOOR PLAN			
M-501	MECHANICAL DETAILS			
M-502	MECHANICAL DETAILS			
M-503	MECHANICAL DETAILS			
M-601	MECHANICAL SCHEDULES			
E-001	ELECTRICAL ABBREVIATIONS, NOTES, DETAILS & SCHEDULES			
E-100	ELECTRICAL SITE PLAN AND ONE-LINE DIAGRAMS			
E-101	ELECTRICAL POWER PLANS			

ISSUED FOR BID

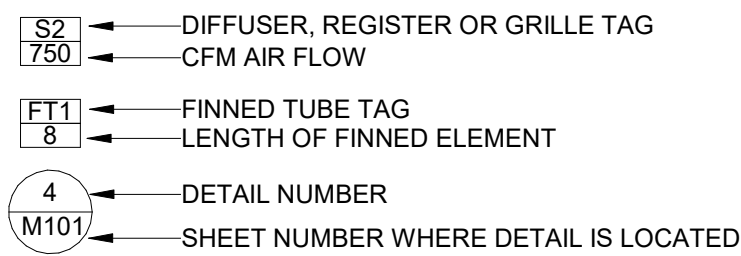
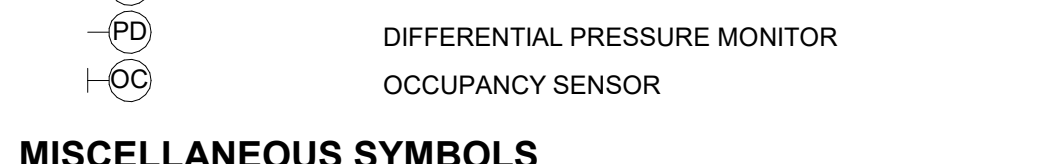
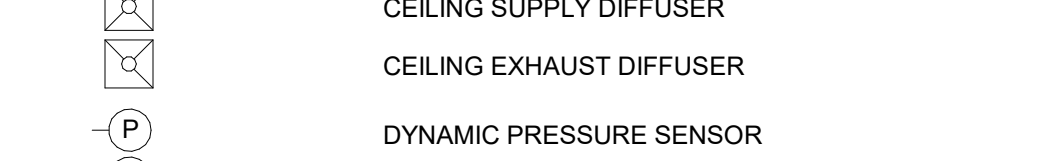
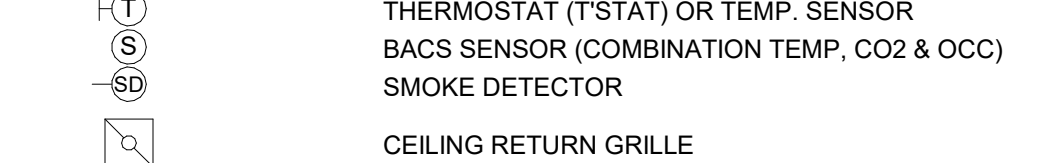
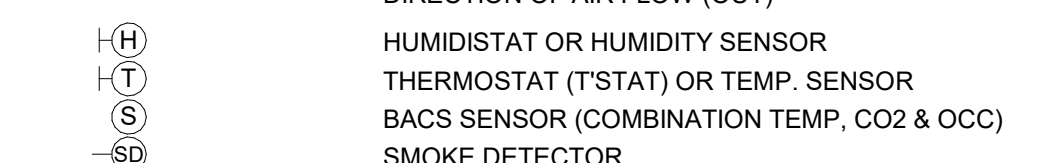
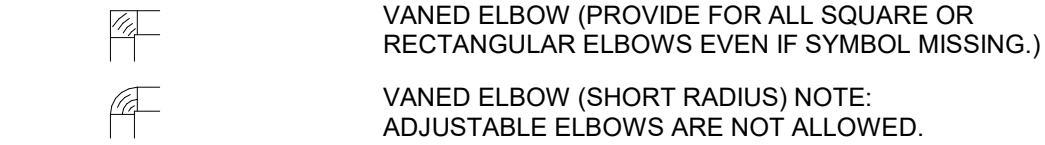
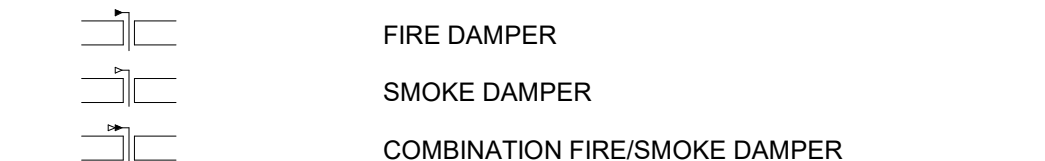
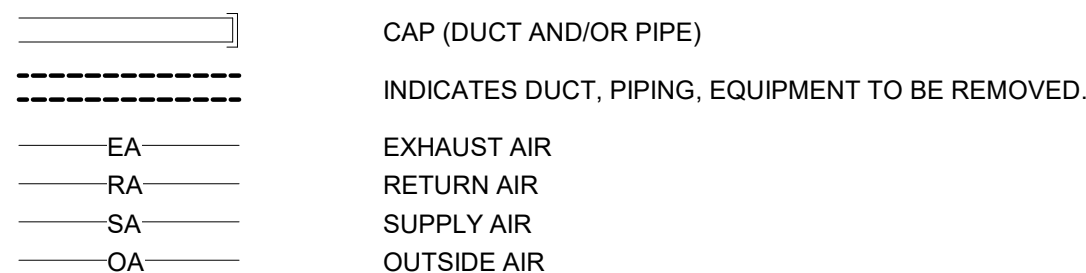
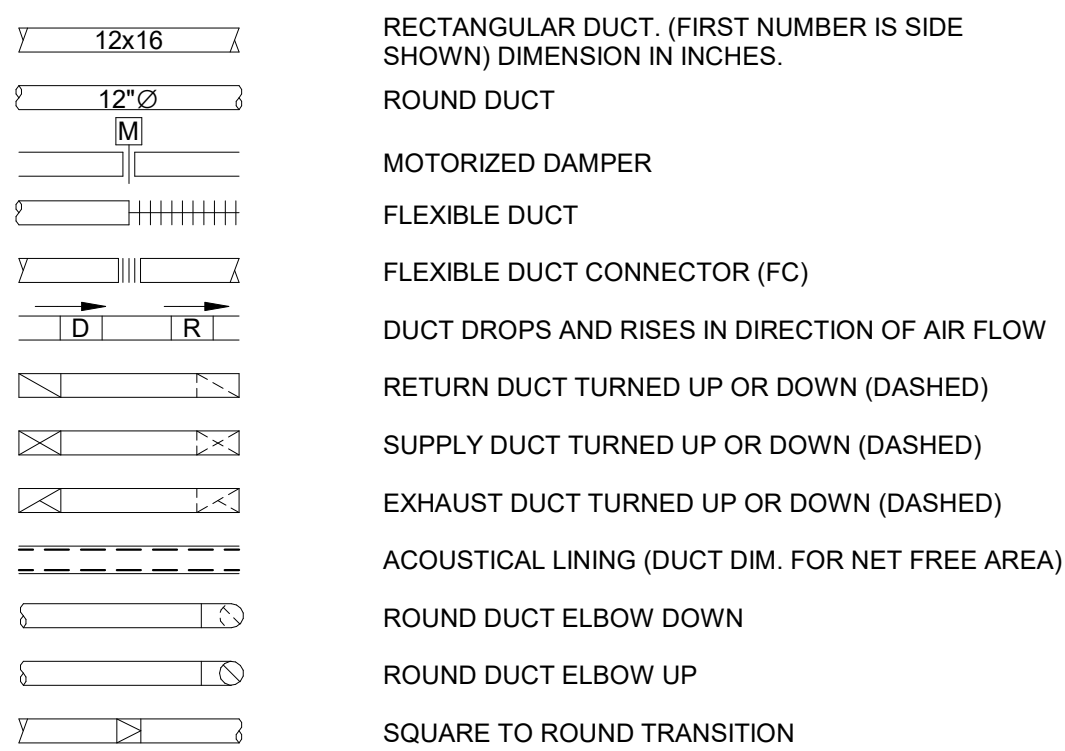
2026.04.23



HALEY WARD

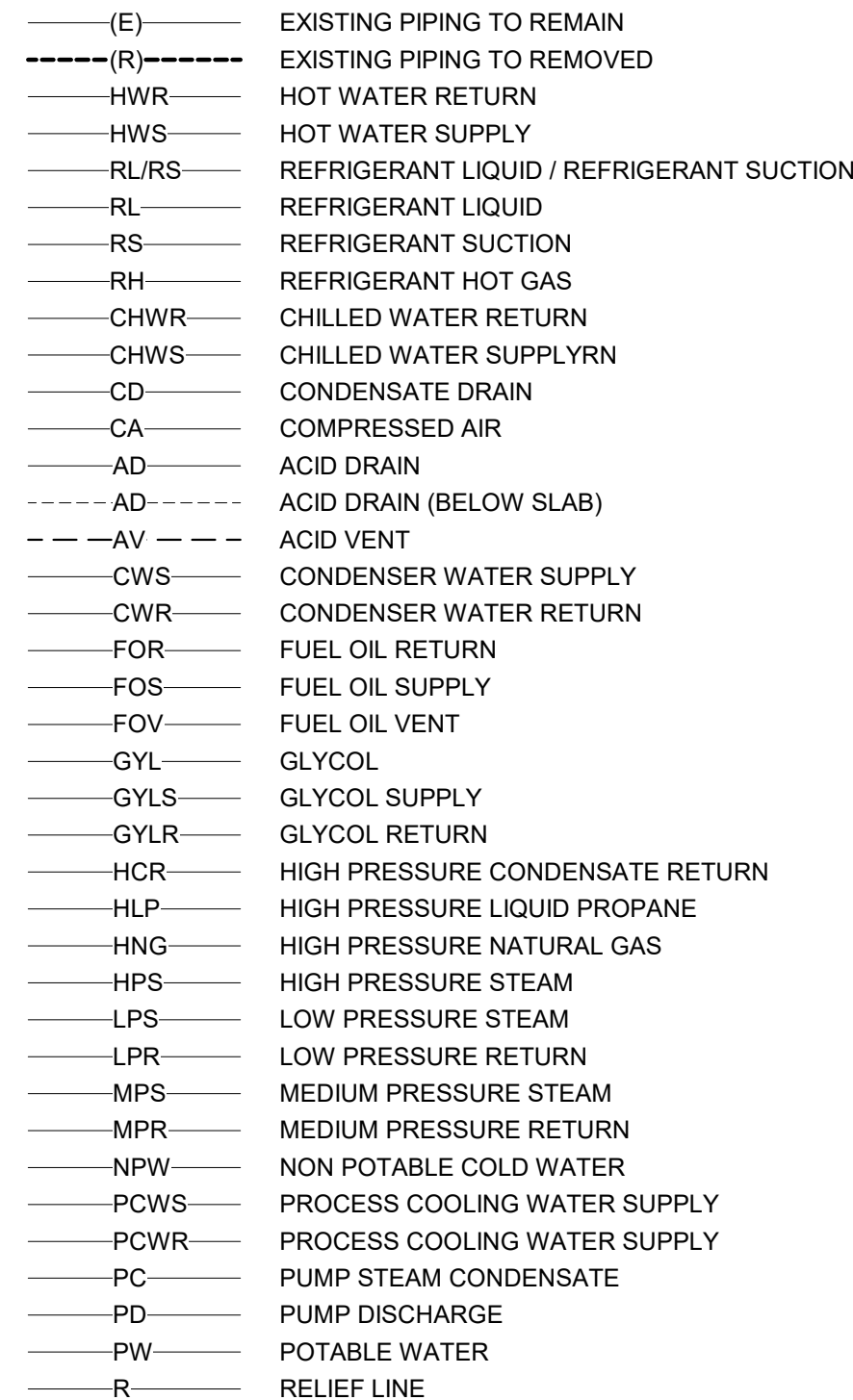
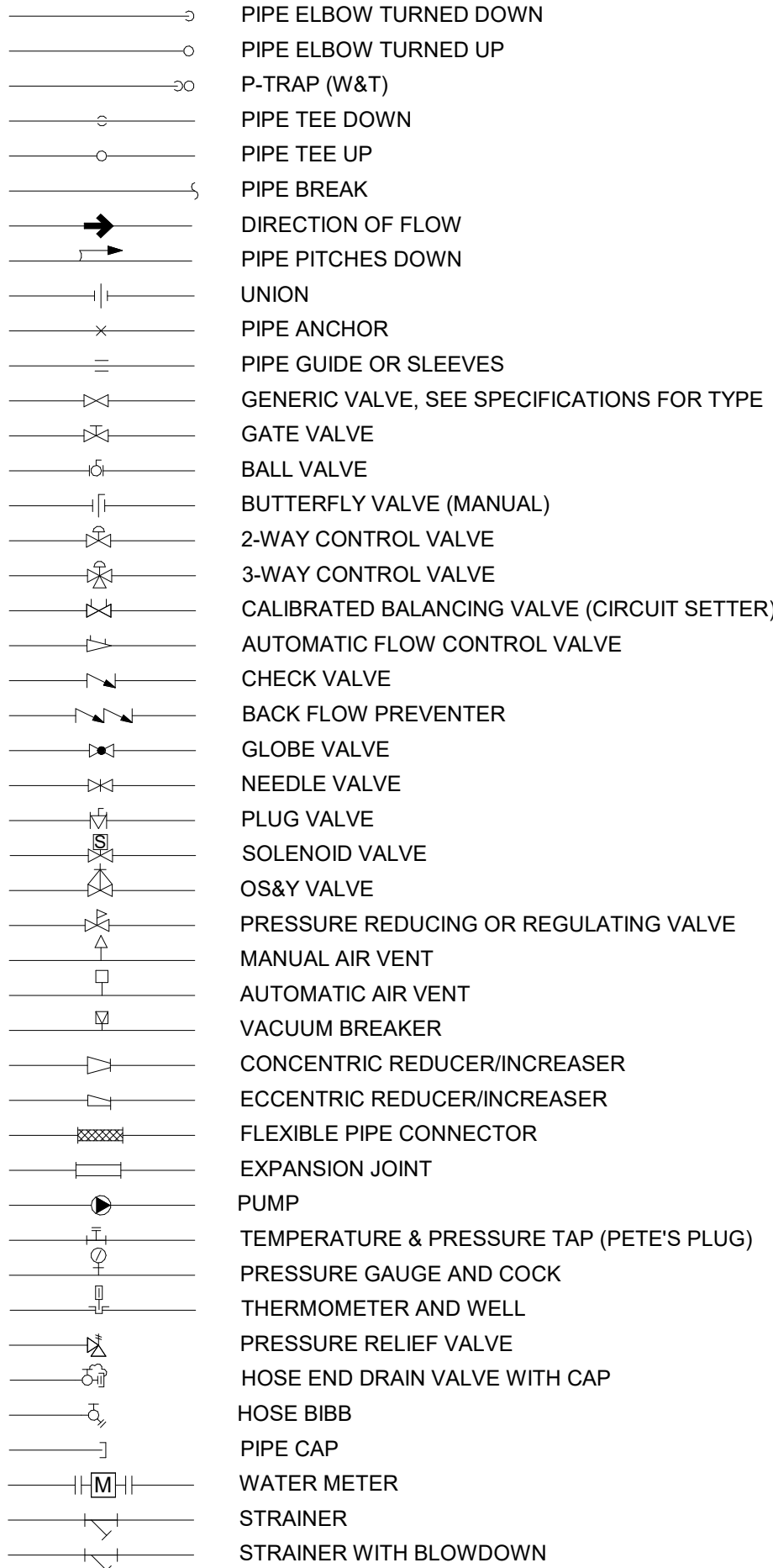
ENGINEERING | ENVIRONMENTAL | SURVEYING

A AT
 A AMP
 ABS ACRYLONITRILE BUTADIENE STYRENE PLASTIC
 ABV ABOVE
 ADD ACCESS DOOR
 ADA AMERICANS WITH DISABILITIES ACT
 AF AIR FILTER
 AFF ABOVE FINISHED FLOOR
 AL AIR FLOW MEASURING STATION
 AL ACoustical LINer
 AMB AMBIENT
 AP ACCESS PANEL
 APD AIR PRESSURE DROP
 APPROX APPROXIMATELY
 ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
 ASSY ASSEMBLY
 ATC AUTOMATIC TEMPERATURE CONTROL
 ATT ACoustical ATTenuATOR
 AUT AUTOMATIC VENT
 BDD BACKDRIFT DAMPER
 BHP BRAKE HORSEPOWER
 BLDG BUILDING
 BOT BOTTOM
 BTU BOTTOM OF DUCT
 BTU PER HOUR
 CL CENTERLINE
 CA COMPRESSED AIR
 CAP CAPACITY
 CC COOLING COIL
 CFM CUBIC FEET PER MINUTE
 CLG CEILING
 COL COLUMN
 CONC CONCRETE
 CHWR CHILLED WATER RETURN
 CHWS CHILLED WATER SUPPLY
 COND CONDENSATE
 CONN CONNECTION
 CONT CONTINUATION
 CP CONTROL PANEL, CONDENSATE PUMP
 CPT CONDENSATE PUMP TRAP
 CV CONTROL VALVE
 Cv CONTROL VALVE RATING
 CW CONSTANT VOLUME AIR TERMINAL
 CWT DOMESTIC COLD WATER
 CWR COLD WATER RETURN
 OWS COLD WATER SUPPLY
 D DRAIN
 D DEPTH
 dB DECIBELS
 DB DRY BULB
 DDC DIRECT DIGITAL CONTROL
 Ø, DIA DIAMETER
 DIFF DIFFERENTIAL, DIFFUSER
 DISCH DISCHARGE
 DOWN DOWN
 DOM DOMESTIC
 DP DIFFERENTIAL PRESSURE
 DWG DRAWING
 DWGS DRAWINGS
 EA EXHAUST AIR
 EAT ENTERING AIR TEMPERATURE
 EC ELECTRICAL CONTRACTOR
 EDR EQUIVALENT DIRECT RADIATION
 EER ENERGY EFFICIENT RATIO
 EFF EFFICIENCY
 ELEC ELECTRIC, ELECTRICAL
 ELEV ELEVATION
 ENT ENTERING
 EPDM ETHYLENE PROPYLENE DIENE MEMBRANE
 EQUIP EQUIPMENT
 ESP EXTERNAL STATIC PRESSURE
 EXP EXPANSION
 F FAN, DEGREES FAHRENHEIT
 FA FRESH AIR
 FAI FRESH AIR INTAKE
 FBG FURNISHED BY GOVERNMENT
 FC FLEX CONNECTION
 FCO FLOOR CRAWLOUT
 FD FIRE DAMPER
 FF FINISH FLOOR
 FIX FIXTURE
 FLA FULL LOAD AMPS
 FLR FLOOR
 FOB FLAT ON BOTTOM
 FOT FLAT ON TOP
 FS FLOAT SWITCH
 FSD FIRE SMOKE DAMPER
 FTR FIN TUBE RADIATION
 FZ FREEZESTAT
 G GAS
 GA GAUGE
 GAL GALLONS
 GALV GALVANIZED
 GC GENERAL CONTRACTOR
 GP GENERAL PURPOSE
 GPM GALLONS PER HOUR
 GPM GALLONS PER MINUTE
 GRH GRAVITY RELIEF HOOD
 GV GATE VALVE
 GSM GALVANIZED SHEET METAL
 GYP GYPSUM WALLBOARD
 H HEIGHT
 HOA HANDS-OFF-AUTOMATIC
 HOR HORIZONTAL
 HP HORSEPOWER, HIGH PRESSURE
 HPC HIGH PRESSURE CONDENSATE
 HPS HIGH PRESSURE STEAM
 HR HOUR
 HT HEIGHT
 HUMID HUMIDIFIER, HUMIDITY
 HVAC HEATING, VENTILATING AND AIR CONDITIONING
 HW DOMESTIC HOT WATER
 HWR HOT WATER RETURN
 HWS HOT WATER SUPPLY
 HZ HERTZ



AHU	AIR HANDLING UNIT
EF	EXHAUST FAN
ERV	ENERGY RECOVER VENTILATOR
EBH	ELECTRIC BASEBOARD HEATER
HP	HEAT PUMP
DHC	DUCT HEATING COIL
DBF	DRYER BOOSTER FAN
IU	HEAT PUMP INDOOR UNIT
OU	HEAT PUMP OUTDOOR UNIT
UH	UNIT HEATER
ET	EXPANSION TANK
VAV	VARIABLE AIR VOLUME

(E) EXISTING TO REMAIN
(R) EXISTING TO BE DISCONNECTED AND REMOVED
(RL) EXISTING TO BE DISCONNECTED AND RELOCATED
(ER) EXISTING IN NEW LOCATION
(RP) EXISTING TO BE REPLACED



1. IT IS THE INTENT OF THESE DRAWINGS TO SHOW COMPLETE AND FUNCTIONAL SYSTEMS THAT ARE IN COMPLIANCE WITH ALL INDUSTRY STANDARDS AND APPLICABLE CODES. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ENGINEER'S ATTENTION.
2. ALL MECHANICAL SYSTEMS WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION AND ALL APPLICABLE CODES. ALL WORK SHALL CONFORM TO EQUIPMENT MANUFACTURER'S INSTRUCTIONS AND INDUSTRY STANDARDS.
3. ALL WORKMANSHIP SHALL BE OF THE HIGHEST STANDARDS. INSTALL ALL WORK IN A NEAT, SYSTEMATIC AND ORDERLY ARRANGEMENT. ALL MATERIAL SHALL BE NEW AND OF THE BEST QUALITY AVAILABLE; FREE FROM DEFECTS. THE CONTRACTOR SHALL GUARANTEE THE MATERIALS AND INSTALLATION FOR ONE YEAR FROM THE PROJECT ACCEPTANCE DATE AGAINST ANY DEFECTS DUE TO FAULTY MATERIALS, EQUIPMENT, WORKMANSHIP, OR INSTALLATION. UPON NOTICE OF THE DEFECT, THE CONTRACTOR SHALL REPLACE OR REPAIR THE DEFECTIVE ITEM AT NO ADDITIONAL COST.
4. THE CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY ALL EXISTING FIELD CONDITIONS, DIMENSIONS AND OBSTRUCTIONS.
5. ALL PIPING AND DUCTWORK IS SHOWN DIAGRAMMATICALLY. PIPING AND SYSTEMS SHALL FOLLOW ARRANGEMENT AS MUCH AS POSSIBLE, HOWEVER, ACTUAL FIELD CONDITIONS SHALL DICTATE. CAREFULLY COORDINATE THE SPACE REQUIREMENTS AND LOCATIONS OF ALL DUCTWORK WITH ALL OTHER TRADES, GIVEN PRIORITY TO GRAVITY DRAINAGE PIPING.
6. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE WORK OF ALL OTHER TRADES. SHOULD ANY DISCREPANCIES BE DISCOVERED IN ANY OF THE BID DOCUMENTS, (INCLUDING ALL OTHER DIVISIONS) THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER BEFORE PROCEEDING ANY FURTHER WITH THE WORK, OTHERWISE THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COST INVOLVED WITH THE CORRECTION OF THE CONSTRUCTION INSTALLATION.
7. ALL EQUIPMENT, DUCTWORK, PIPING, ETC. SHALL BE SUPPORTED FROM THE BUILDING'S STRUCTURAL FRAME AND MEMBERS. ALL DUCT SIZES ARE NET DIMENSIONS AND DO NOT INCLUDE AND INSULATION, SUPPORT OR REINFORCEMENT DIMENSIONS. ALL WORK SHALL BE NEW UNLESS OTHERWISE NOTED AS EXISTING.
8. THE CONTRACTOR SHALL PERFORM TESTS ON ALL MECHANICAL SYSTEMS AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS. ALL TEST SHALL BE WITNESSED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL PROVIDE ALL SERVICES AND MATERIALS REQUIRED BY THE TEST AND CERTIFY IN WRITING THAT ALL WORK HAS PASSED ALL REQUIRED TESTS.
9. THE MECHANICAL SYSTEMS SHALL BE BALANCED, COMPLETE WITH A WRITTEN REPORT BY AN INDEPENDENT AIR BALANCE FIRM WITH A MINIMUM OF 3 YEARS EXPERIENCE.
10. WHERE PIPES AND DUCTS PENETRATE WALLS OR FLOOR, THE SPACE BETWEEN THE STRUCTURE AND THE DUCT OR PIPE SHALL BE SEALED AIRTIGHT WITH AN APPROVED MATERIAL. PROVIDE FIRE STOPS AND/OR SEALANT AROUND ALL PENETRATIONS THAT HAVE A FIRE RATING GREATER THAN OR EQUAL TO THE FIRE RATING OF THE WALL, FLOOR OR ENCLOSURE.
11. PROVIDE ACCESS PANELS FOR ALL VALVES, DAMPERS, CLEANOUTS, ETC. THAT REQUIRE ACCESS.

SHEET LIST - MECHANICAL	
M-001	MECHANICAL NOTES, SYMBOLS & ABBREVIATIONS
M-101	MECHANICAL BASEMENT PLAN
M-102	MECHANICAL FIRST FLOOR PLAN
M-501	MECHANICAL DETAILS
M-502	MECHANICAL DETAILS
M-503	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES

REV.	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				

ISSUED FOR BID



HALEY WARD

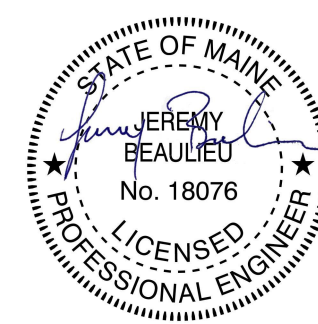
One Merchants Plaza, Suite 701
Bangor, Maine 04401
207.989.4824

PROJEC

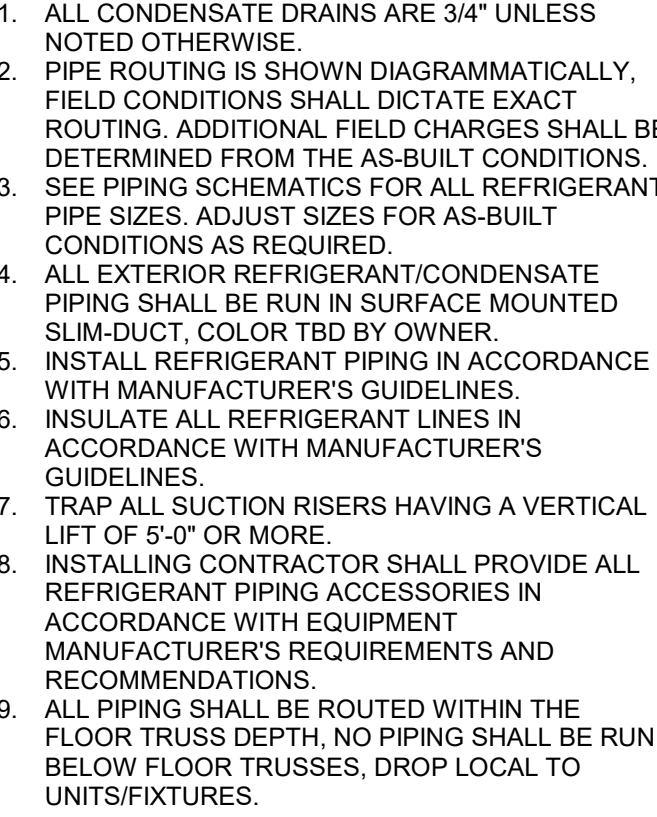
**MAINE IF&W HEAT PUMP & ELECTRICAL
UPGRADES
JONESBORO, MAINE**

TITLE

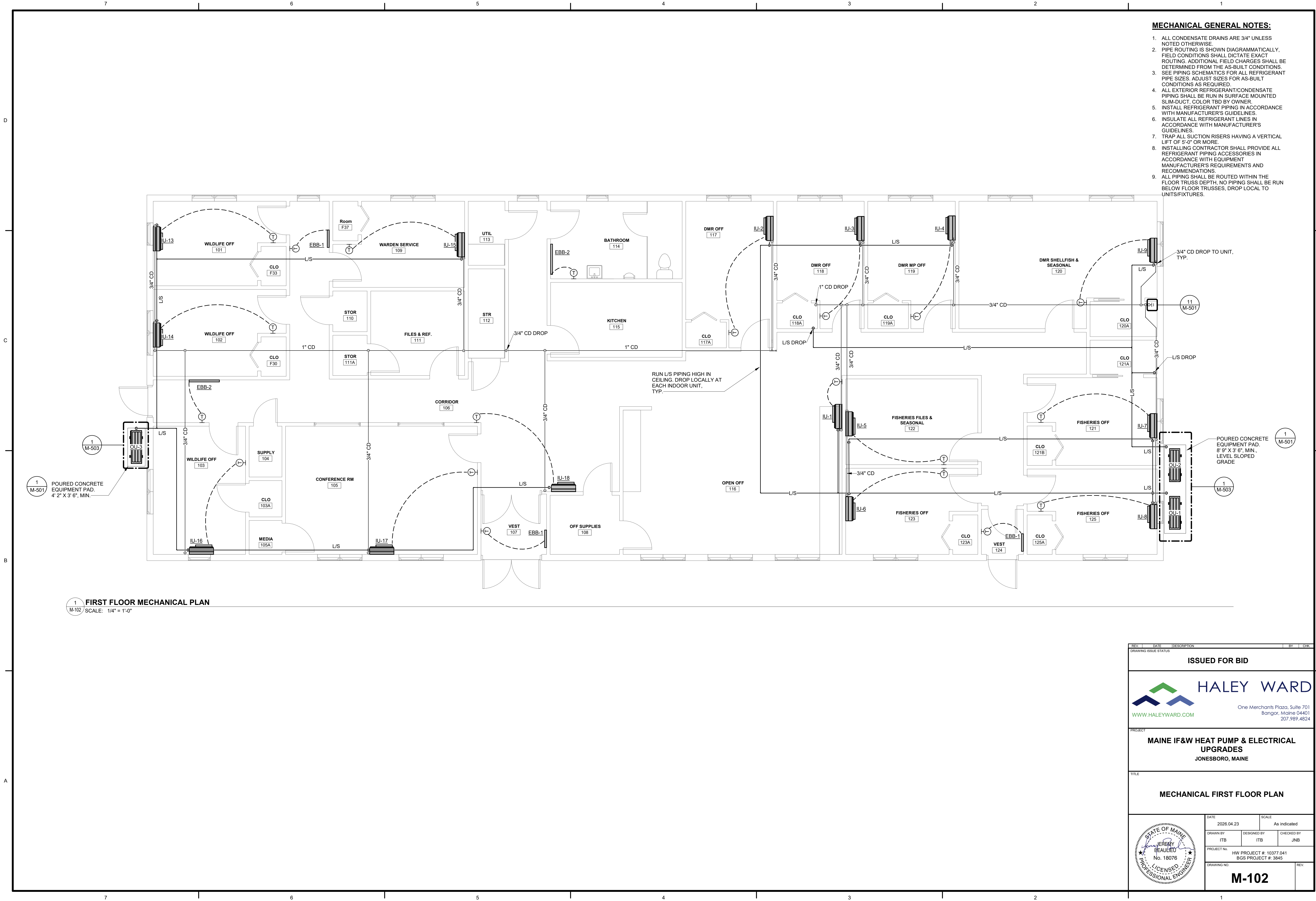
MECHANICAL NOTES, SYMBOLS & ABBREVIATIONS



DATE 2026.04.23		SCALE 12" = 1'-0"	
DRAWN BY ITB	DESIGNED BY ITB	CHECKED BY JNB	
PROJECT No. HW PROJECT #: 10377.041 BGS PROJECT #: 3845			
DRAWING NO. M-001			REV.



2 BASEMENT MECHANICAL ROOM DEMO PLAN
M-101 SCALE: 1/4" = 1'-0"

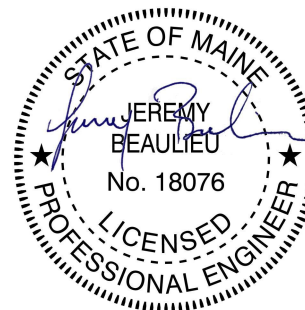


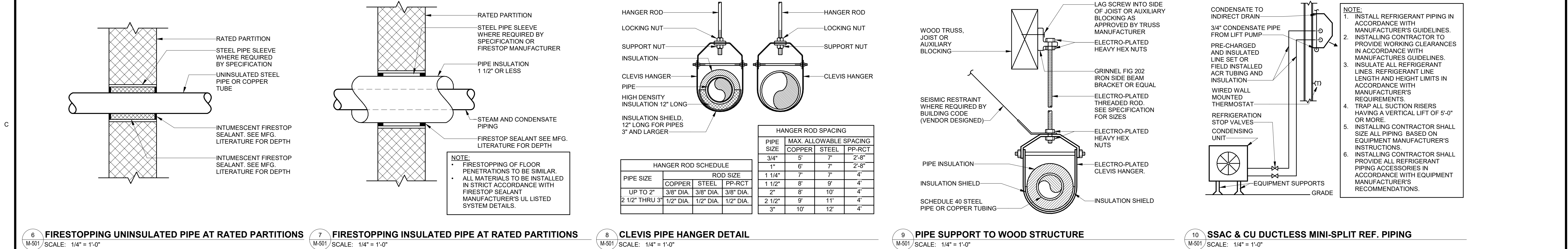
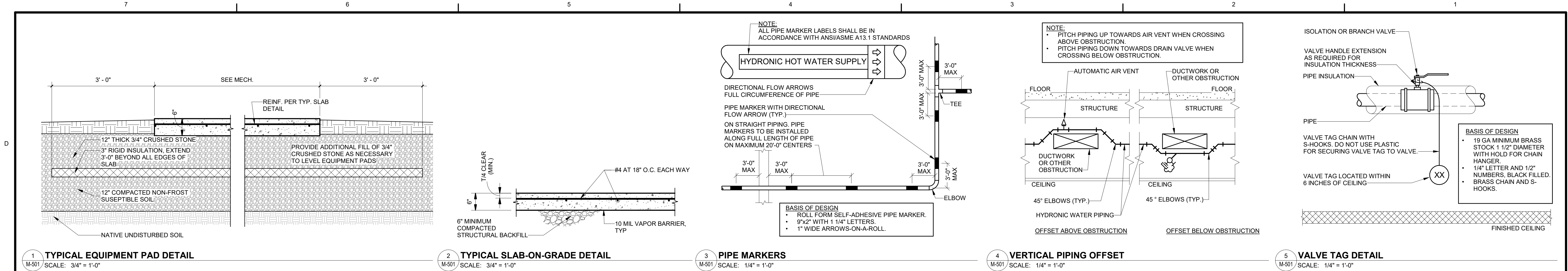
MECHANICAL GENERAL NOTES:

1. ALL CONDENSATE DRAINS ARE 3/4" UNLESS NOTED OTHERWISE.
2. PIPE ROUTING IS SHOWN DIAGRAMMATICALLY, FIELD CONDITIONS SHALL DICTATE EXACT ROUTING. ADDITIONAL FIELD CHARGES SHALL BE DETERMINED FROM THE AS-BUILT CONDITIONS.
3. SEE PIPING SCHEMATICS FOR ALL REFRIGERANT PIPE SIZES. ADJUST SIZES FOR AS-BUILT CONDITIONS AS REQUIRED.
4. ALL EXTERIOR REFRIGERANT/CONDENSATE PIPING SHALL BE RUN IN SURFACE MOUNTED SLIM-DUCT, COLOR TBD BY OWNER.
5. INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
6. INSULATE ALL REFRIGERANT LINES IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
7. TRAP ALL SUCTION RISERS HAVING A VERTICAL LIFT OF 5'-0" OR MORE.
8. INSTALLING CONTRACTOR SHALL PROVIDE ALL REFRIGERANT PIPING ACCESSORIES IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
9. ALL PIPING SHALL BE ROUTED WITHIN THE FLOOR TRUSS DEPTH, NO PIPING SHALL BE RUN BELOW FLOOR TRUSSES, DROP LOCAL TO UNITS/FIXTURES.

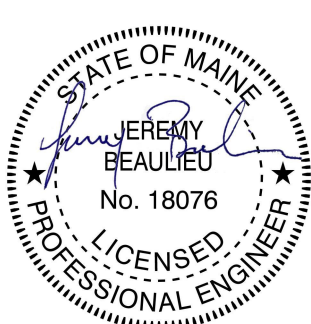
1 FIRST FLOOR MECHANICAL PLAN
M-102 SCALE: 1/4" = 1'-0"

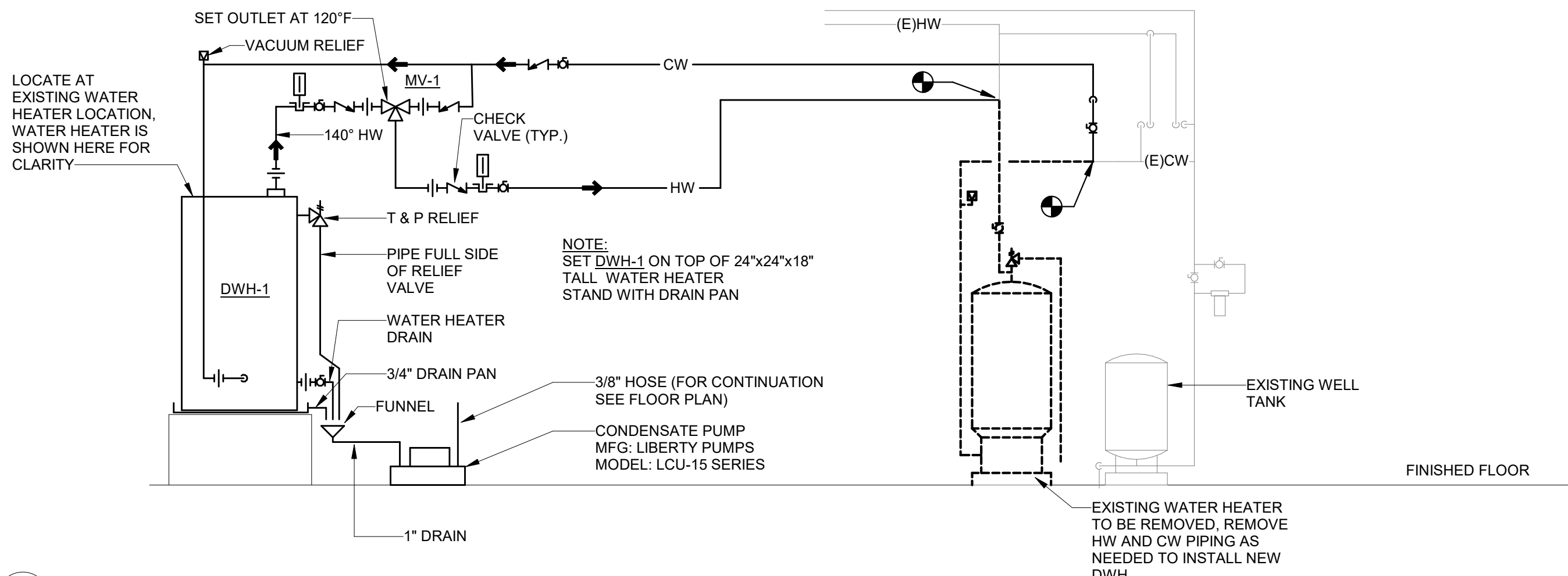
REV.	1	DATE	2026.04.23	DESCRIPTION	ISSUED FOR BID	BY	CHK.
DRAWING ISSUE STATUS							
HALEY WARD One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM							
PROJECT MAINE IF&W HEAT PUMP & ELECTRICAL UPGRADES JONESBORO, MAINE							
TITLE MECHANICAL FIRST FLOOR PLAN							
DATE 2026.04.23		SCALE As indicated					
DRAWN BY ITB		DESIGNED BY ITB		CHECKED BY JNB			
PROJECT No. HW PROJECT #: 10377.041 BGS PROJECT #: 3845							
DRAWING NO. M-102		REV.					



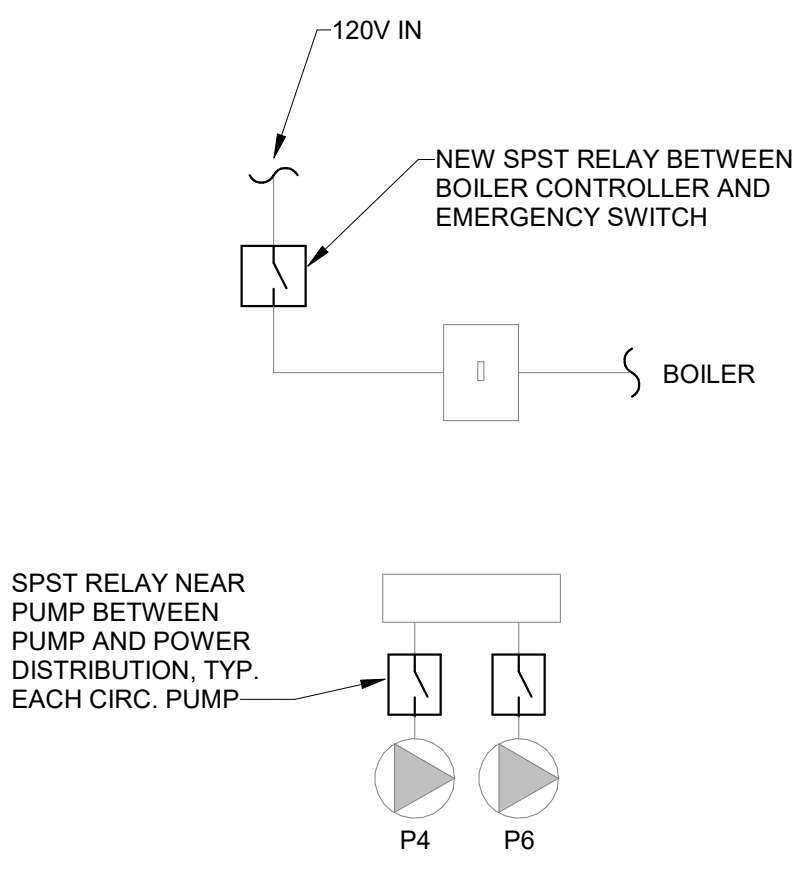


REV.	DATE	DESCRIPTION	BY	CHK.
DRAWING ISSUE STATUS				
ISSUED FOR BID				
 HALEY WARD One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM				
PROJECT MAINE IF&W HEAT PUMP & ELECTRICAL UPGRADES JONESBORO, MAINE				
TITLE MECHANICAL DETAILS				
DATE 2026.04.23		SCALE As indicated		
DRAWN BY ITB	DESIGNED BY ITB	CHECKED BY JNB		
PROJECT NO. HW PROJECT #: 10377.041 BGS PROJECT #: 3845				
DRAWING NO. M-501		REV.		

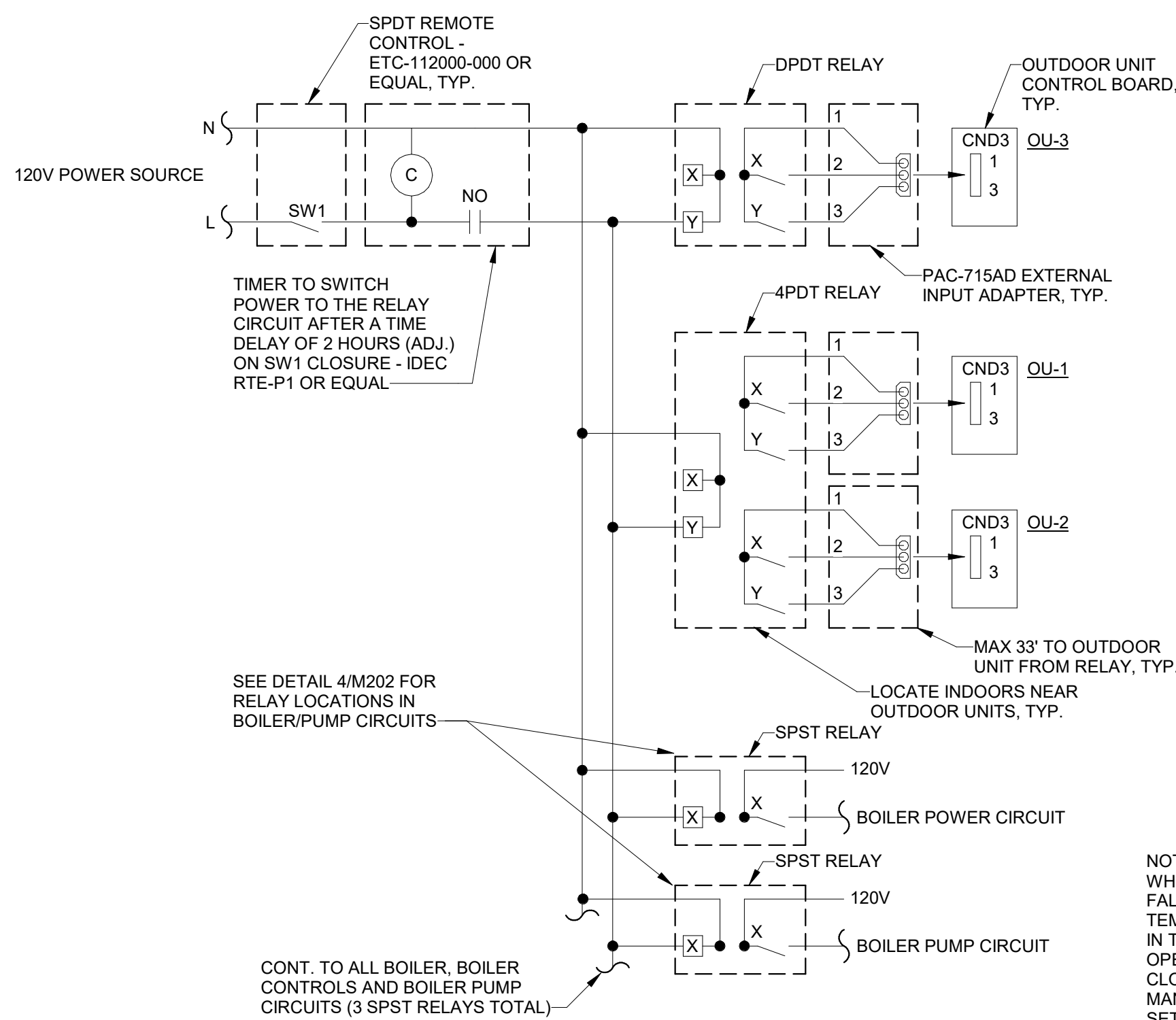




2 DOMESTIC WATER HEATER DETAIL
M-502 SCALE: 1/4" = 1'-0"

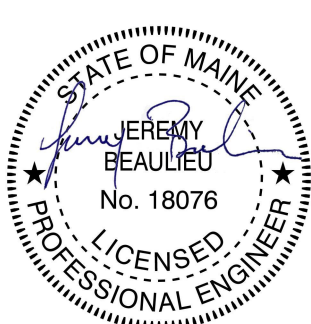


3 BOILER AND PUMP RELAY LOCATIONS
M-502 SCALE: 12" = 1'-0"



1 VRF OUTDOOR UNIT DEMAND CONTROL WIRING
M-502 SCALE: 12" = 1'-0"

NOTE:
WHEN OUTDOOR TEMP
FALLS BELOW THE
TEMPERATURE INDICATED
IN THE SEQUENCE OF
OPERATIONS SW1 SHALL
CLOSE, SEE EQUIPMENT
MANUAL FOR DIP SWITCH
SETTINGS.

REV.	DATE	DESCRIPTION	BY	CHK.
DRAWING ISSUE STATUS				
ISSUED FOR BID				
 HALEY WARD One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 www.haleyward.com				
PROJECT MAINE IF&W HEAT PUMP & ELECTRICAL UPGRADES JONESBORO, MAINE				
TITLE MECHANICAL DETAILS				
DATE 2026.04.23		SCALE As indicated		
DRAWN BY ITB		DESIGNED BY ITB		CHECKED BY JNB
PROJECT No. HW PROJECT #: 10377.041 BGS PROJECT #: 3845				
DRAWING NO.		REV.		
		M-502		

Autodesk Civil/10377.041 - R26 - Jonesboro IF&W Heat Pump Upgrade/10377.041 - Jonesboro Heat Pumps_MEP.rvt

DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
---	POWER WIRE
---	CONTROL WIRE
---	REF. PIPE

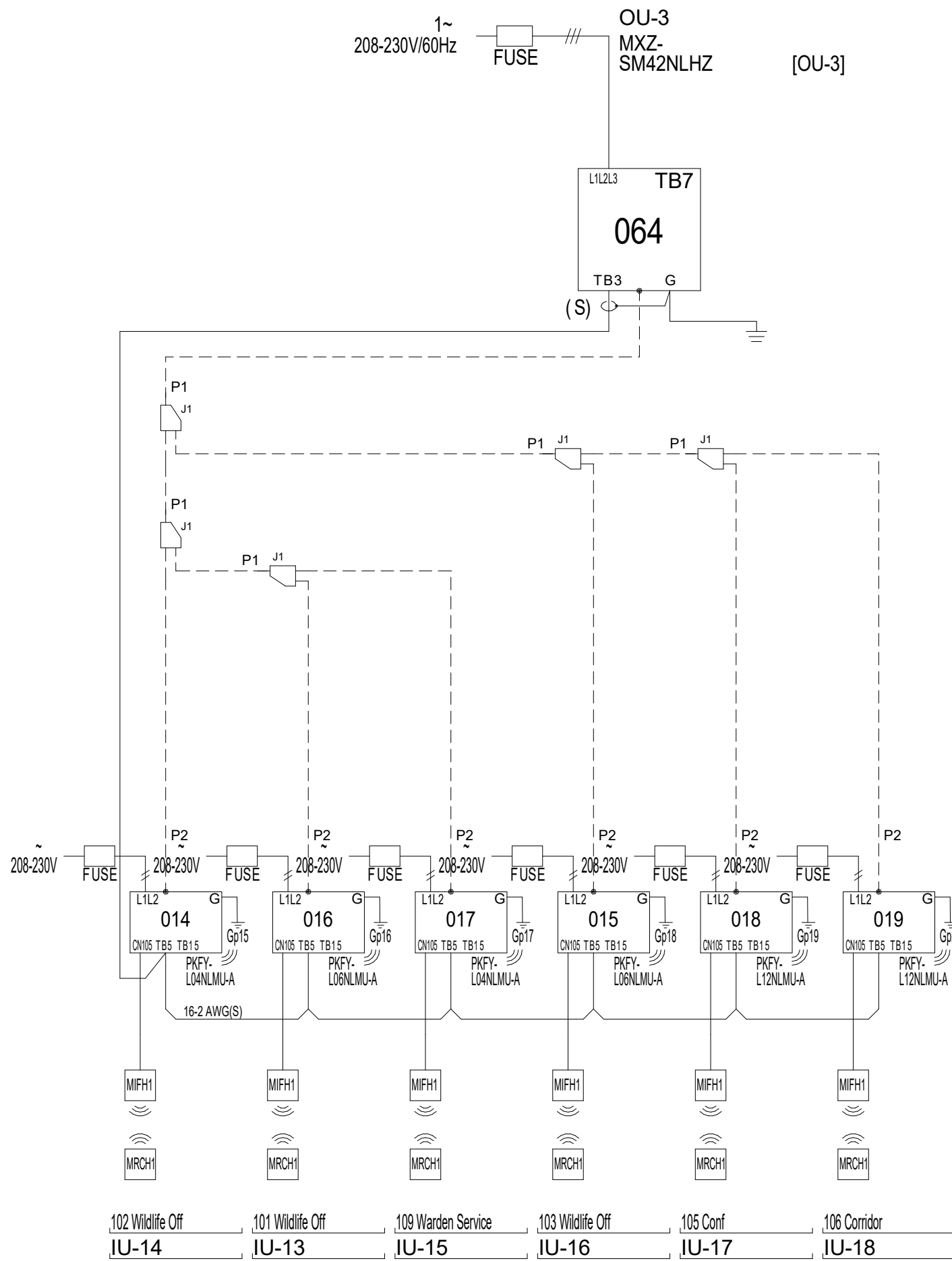
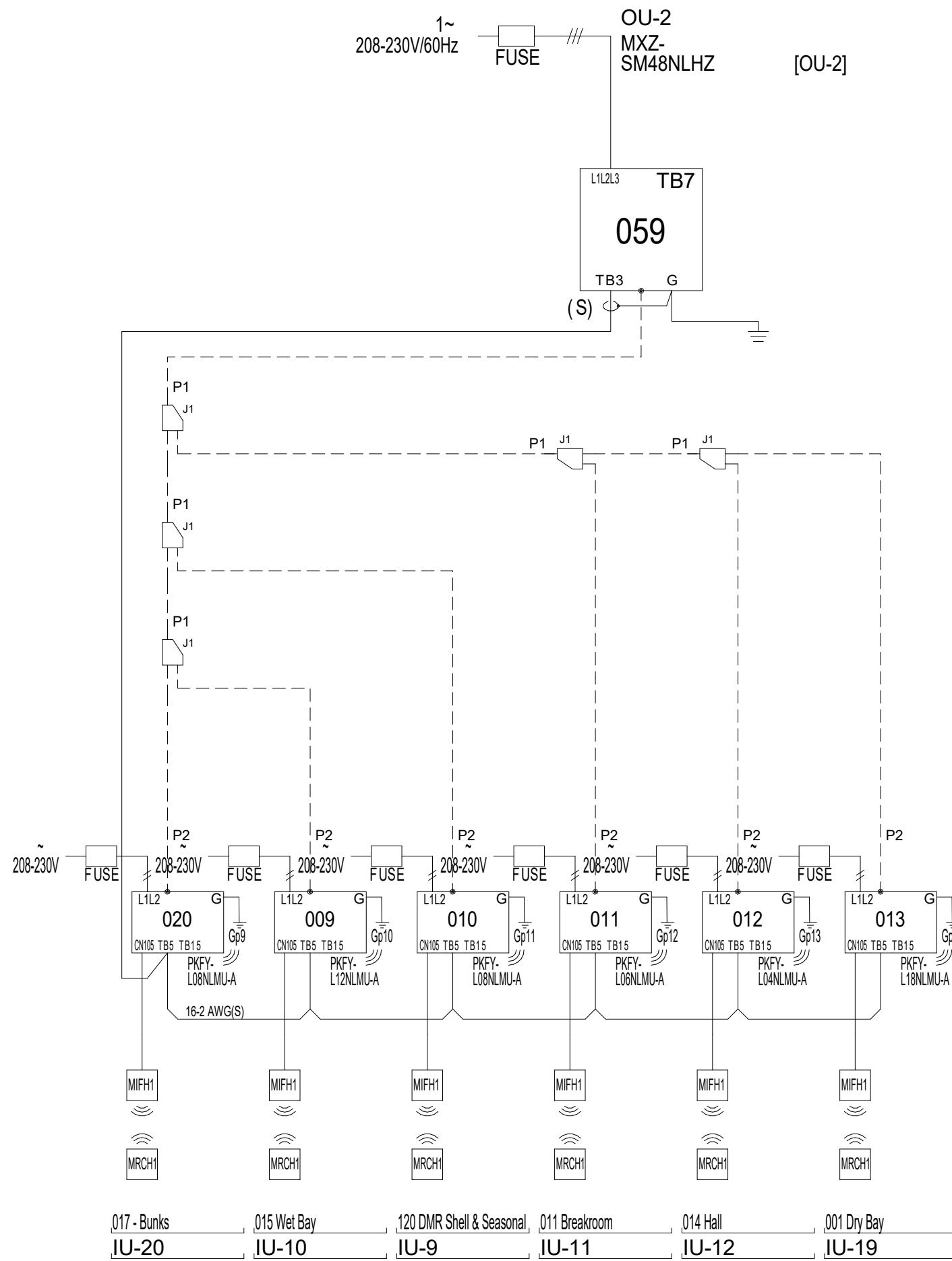
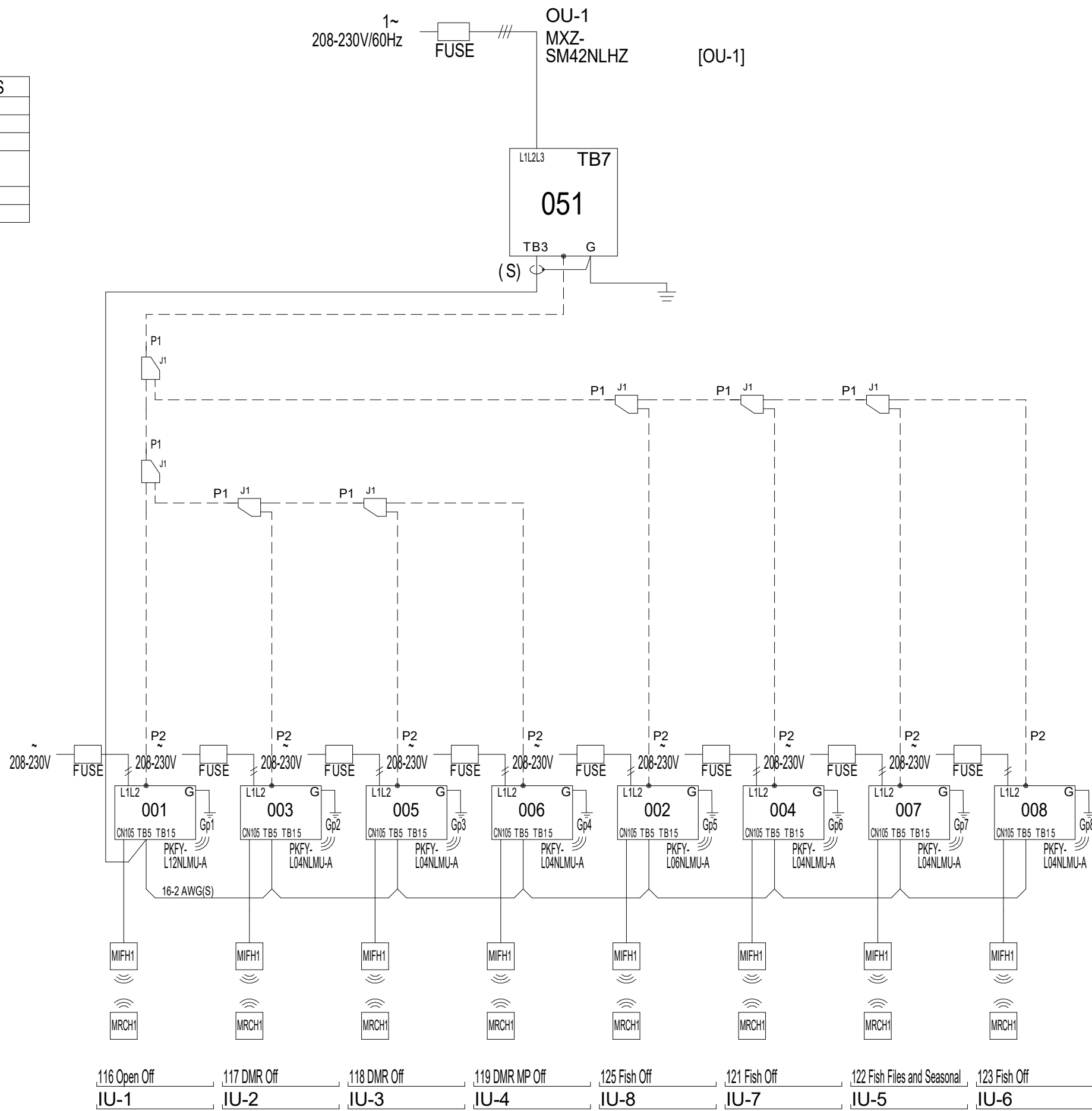
PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMV-Y62-G-E
P1	3/8" 156
P2	1/4" 112
SYMBOL	MODEL NUMBER
MFH1	MRCH1

SYSTEM SCHEMATIC DWG.

This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.

$1.25mm(16\text{ AWG}) > 1.25mm(16\text{ AWG})$ or more. $0.75mm(20\text{ AWG})$ between $0.5mm(24\text{ AWG})$ and $0.75mm(20\text{ AWG})$.



1 MECHANICAL PIPING DIAGRAM
M-503 / NTS

CONTROL SYSTEM NOTES & SEQUENCE OF OPERATIONS

GENERAL

THE OCCUPIED AND UNOCCUPIED SCHEDULE AND SETPOINTS SHALL BE DETERMINED BY THE FACILITIES MANAGEMENT. COORDINATE SCHEDULED OCCUPIED AND UNOCCUPIED HOURS WITH MANAGEMENT AND SET THEM IN THE VRF SYSTEM CENTRAL CONTROLLER.

SPACE SETPOINTS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

UNOCCUPIED:
HEATING: 64°F (ADJ.)
COOLING: 80°F (ADJ.)

OCCUPIED:
HEATING: 70°F (ADJ.)
COOLING: 74°F (ADJ.)

TYPICAL VRF HEAT PUMP SYSTEMS

- GENERAL
 - THE SYSTEMS SHALL OPERATE AS A CHANGEOVER VRF HEATPUMP SYSTEM.
 - ALL INDOOR UNITS SHALL CONDITION A SINGLE ZONE THROUGH A SINGLE WALL MOUNTED CONTROLLER EXCEPT WHERE MULTIPLE INDOOR UNITS ARE SHOWN OPERATING FROM ONE THERMOSTAT ON THE MECHANICAL PLANS. WHERE MULTIPLE UNITS ARE SHOWN OPERATING FROM ONE CONTROLLER THEY SHALL CONDITION THE SPACE AS A SINGLE ZONE.
 - INDOOR AND OUTDOOR UNITS SHALL BE CONTROLLED BY THE MANUFACTURER'S CONTROLLERS:
 - PROVIDE AND CONNECT ALL INDOOR AND OUTDOOR UNITS TO A SINGLE CENTRAL CONTROLLER.
 - PROVIDE WALL MOUNTED ZONE CONTROLLERS AS INDICATED ON THE MECHANICAL PLANS.
- CYCLES/MODES:
 - THE CYCLE/MODE OF THE ZONE EQUIPMENT AND OUTDOOR UNIT SHALL BE DETERMINED AND SET BY THE MANUFACTURER'S HEAT PUMP CONTROLS.
 - ALL SETPOINTS SHALL BE FIELD ADJUSTABLE FROM THE UNIT ZONE CONTROLLERS AND CENTRAL CONTROLLER.

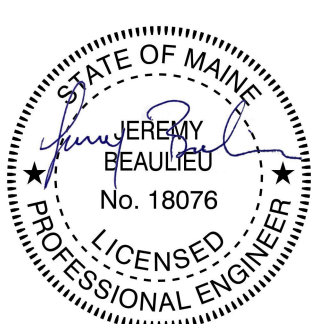
ELECTRIC BASEBOARD HEATERS

- THE ELECTRIC BASEBOARD HEATERS SHALL RESPOND TO A WALL MOUNTED WIRED THERMOSTAT.
- WHEN THE ROOM TEMPERATURE FALLS BELOW 70°F (ADJ.) THE BASEBOARD SHALL ENERGIZE.
- WHEN THE THERMOSTAT IS SATISFIED THE BASEBOARD SHALL BE OFF.

COLD WEATHER SYSTEM CHANGEOVER

- WHEN THE OUTDOOR AIR TEMPERATURE FALLS BELOW 25°F (ADJ.) THE HEATING SYSTEM SHALL CHANGE FROM VRF TO THE EXISTING BOILER SYSTEM.
- WHEN THE OUTDOOR TEMPERATURE SENSOR SENSES A TEMPERATURE FALL BELOW 25°F (ADJ.) IT'S CONTACT SHALL CLOSE TO SEND POWER TO THE VRF SHUT DOWN RELAYS VIA THE ON-DELAY TIMER AFTER A TIME DELAY OF 2 HOURS (ADJ.) (SEE DETAIL 2/M202).
- COIL Y SHALL ENERGIZE AND CLOSE CONTACT Y CAUSING THE VRF OUTDOOR UNITS TO SHUT DOWN.
- THE SAME OUTDOOR TEMPERATURE SENSOR SHALL SEND POWER TO THE BOILER AND CIRCULATOR START-UP RELAYS VIA THE ON-DELAY TIMER TO START THE BOILER AND CIRCULATORS AT THE SAME TIME AS THE VRF SYSTEM IS SHUTTING DOWN.
- ANY TIME THE OUTDOOR AIR TEMPERATURE IS ABOVE THE COLD WEATHER CHANGEOVER TEMPERATURE SETPOINT THE ENTIRE OIL HOT WATER SYSTEM SHALL BE DE-ENERGIZED TO INCLUDE THE BOILER AND CIRCULATORS.

REV.	DATE	DESCRIPTION	BY	CHK.
DRAWING ISSUE STATUS				
ISSUED FOR BID				
 HALEY WARD One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM				
PROJECT MAINE IF&W HEAT PUMP & ELECTRICAL UPGRADES JONESBORO, MAINE				
TITLE MECHANICAL DETAILS				
DATE 2026.04.23		SCALE 12" = 1'-0"		
DRAWN BY ITB		DESIGNED BY ITB		CHECKED BY JNB
PROJECT No. HW PROJECT #: 10377.041 BGS PROJECT #: 3845				
DRAWING No. M-503				
REV.				



Autodesk Docs/10377.041 - R20 - Jonesboro IF&W Heat Pump Upgrades/10377.041 - Jonesboro Heat Pumps_MEP.rvt

HEAT PUMP/VRF OUTDOOR UNIT SCHEDULE															
TAG	MANUFACTURER	MODEL	COOLING CAPACITY	CORRECTED COOLING CAPACITY	DESIGN COOLING OUTDOOR DB	HEATING CAPACITY	CORRECTED HEATING CAPACITY	DESIGN HEATING OUTDOOR DB	COOLING EFFICIENCY (SEER)	HEATING EFFICIENCY (COP)	ELECTRICAL				NOTES:
											VOLTS	RLA	MCA	MOCP	
OU-1	Mitsubishi Electric Corporation	MXZ-SM42NLHZ	42000.0 Btu/h	39768.4 Btu/h	86 °F	48000.0 Btu/h	44620.5 Btu/h	-11 °F	19.75	3.7	208 V	30 A	45 A	80 A	ALL
OU-2	Mitsubishi Electric Corporation	MXZ-SM48NLHZ	48000.0 Btu/h	46272.8 Btu/h	86 °F	54000.0 Btu/h	51073.1 Btu/h	-11 °F	19.5	3.6	208 V	30 A	45 A	80 A	ALL
OU-3	Mitsubishi Electric Corporation	MXZ-SM42NLHZ	42000.0 Btu/h	40872.0 Btu/h	86 °F	48000.0 Btu/h	45087.0 Btu/h	-11 °F	19.75	3.7	208 V	30 A	45 A	80 A	ALL
NOTES: 1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DBWB) OUTDOOR OF 95°F (DB). 2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB). 3. FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING. 4. CORRECTED CAPACITIES SHOWN ARE BASED ON LOWEST GUARANTEED OUTDOOR TEMPERATURE, TEMPERATURES BELOW THIS ARE NOT GUARANTEED. 5. PROVIDE AND CONNECT ALL OUTDOOR UNITS TO A SINGLE CENTRAL AE-200A CONTROLLER. 6. PROVIDE WITH 24" QUICK-SLING STAND KIT, OR EQUIVALENT. 7. PROVIDE WITH SNOW HOOD/HAIL GUARD. 8. PROVIDE WITH APPROPRIATELY SIZED CONCRETE PAD FOR OUTDOOR UNITS. SEE DETAILS FOR REINFORCEMENT. 9. PROVIDE WITH MANUFACTURER'S REFRIGERANT DETECTION AND LEAK MITIGATION SYSTEM.															

HEAT PUMP/VRF INDOOR UNIT SCHEDULE														
TAG	Space: Number	Space: Name	OUTDOOR UNIT	MANUFACTURER	MODEL NUMBER	HEATING CAPACITY	COOLING CAPACITY	SUPPLY CFM	ELECTRICAL					NOTES:
									VOLTAGE	FLA	POWER	MCA	MOCP	
IU-1	116	OPEN OFF	OU-1	Mitsubishi Electric Corporation	PKFY-L12NLMU-A	13500.0 Btu/h	12000.0 Btu/h	297 CFM	208 V	0.20 A	40.0 W	0.24 A	15 A	ALL
IU-2	117	DMR OFF	OU-1	Mitsubishi Electric Corporation	PKFY-L04NLMU-A	4500.0 Btu/h	4000.0 Btu/h	148 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-3	118	DMR OFF	OU-1	Mitsubishi Electric Corporation	PKFY-L04NLMU-A	4500.0 Btu/h	4000.0 Btu/h	148 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-4	119	DMR MP OFF	OU-1	Mitsubishi Electric Corporation	PKFY-L04NLMU-A	4500.0 Btu/h	4000.0 Btu/h	148 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-5	122	FISHERIES FILES & SEASONAL	OU-1	Mitsubishi Electric Corporation	PKFY-L04NLMU-A	4500.0 Btu/h	4000.0 Btu/h	148 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-6	123	FISHERIES OFF	OU-1	Mitsubishi Electric Corporation	PKFY-L04NLMU-A	4500.0 Btu/h	4000.0 Btu/h	148 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-7	121	FISHERIES OFF	OU-1	Mitsubishi Electric Corporation	PKFY-L04NLMU-A	4500.0 Btu/h	4000.0 Btu/h	148 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-8	125	FISHERIES OFF	OU-1	Mitsubishi Electric Corporation	PKFY-L06NLMU-A	6700.0 Btu/h	6000.0 Btu/h	191 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-9	120	DMR SHELLFISH & SEASONAL	OU-2	Mitsubishi Electric Corporation	PKFY-L08NLMU-A	9000.0 Btu/h	8000.0 Btu/h	237 CFM	208 V	0.10 A	30.0 W	0.24 A	15 A	ALL
IU-10	015	WET BAY	OU-2	Mitsubishi Electric Corporation	PKFY-L12NLMU-A	13500.0 Btu/h	12000.0 Btu/h	297 CFM	208 V	0.20 A	40.0 W	0.24 A	15 A	ALL
IU-11	011	BREAK	OU-2	Mitsubishi Electric Corporation	PKFY-L06NLMU-A	6700.0 Btu/h	6000.0 Btu/h	191 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-12	014	HALL	OU-2	Mitsubishi Electric Corporation	PKFY-L04NLMU-A	4500.0 Btu/h	4000.0 Btu/h	148 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-13	101	WILDLIFE OFF	OU-3	Mitsubishi Electric Corporation	PKFY-L06NLMU-A	6700.0 Btu/h	6000.0 Btu/h	191 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-14	102	WILDLIFE OFF	OU-3	Mitsubishi Electric Corporation	PKFY-L04NLMU-A	4500.0 Btu/h	4000.0 Btu/h	148 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-15	109	WARDEN SERVICE	OU-3	Mitsubishi Electric Corporation	PKFY-L04NLMU-A	4500.0 Btu/h	4000.0 Btu/h	148 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-16	103	WILDLIFE OFF	OU-3	Mitsubishi Electric Corporation	PKFY-L06NLMU-A	6700.0 Btu/h	6000.0 Btu/h	191 CFM	208 V	0.10 A	20.0 W	0.24 A	15 A	ALL
IU-17	105	CONFERENCE RM	OU-3	Mitsubishi Electric Corporation	PKFY-L12NLMU-A	13500.0 Btu/h	12000.0 Btu/h	297 CFM	208 V	0.20 A	40.0 W	0.24 A	15 A	ALL
IU-18	106	CORRIDOR	OU-3	Mitsubishi Electric Corporation	PKFY-L12NLMU-A	13500.0 Btu/h	12000.0 Btu/h	297 CFM	208 V	0.20 A	40.0 W	0.24 A	15 A	ALL
IU-19	001	DRY BAY	OU-2	Mitsubishi Electric Corporation	PKFY-L18NLMU-A	20000.0 Btu/h	18000.0 Btu/h	438 CFM	208 V	0.20 A	50.0 W	0.24 A	15 A	ALL
IU-20	017	BUNKS	OU-2	Mitsubishi Electric Corporation	PKFY-L08NLMU-A	9000.0 Btu/h	8000.0 Btu/h	237 CFM	208 V	0.10 A	30.0 W	0.24 A	15 A	ALL
NOTES: 1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) OUTDOOR OF 95°F (DB). 2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB). 3. SEE OUTDOOR UNIT SCHEDULE FOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES. 4. PROVIDE ALL ZONES WITH A SINGLE WALL MOUNTED SIMPLE MA THERMOSTAT. 5. PROVIDE AND CONNECT ALL INDOOR UNITS TO A CENTRAL AE-200A CONTROLLER. 6. PROVIDE WITH MANUFACTURER'S GOBI II CONDENSATE PUMP POWER PUMP FROM HEAT PUMP POWER CONNECTIONS PER MANUFACTURER INSTALL GUIDE. 7. PROVIDE WITH MANUFACTURER'S REFRIGERANT DETECTION AND LEAK MITIGATION SYSTEM.														

ELECTRIC BASEBOARD SCHEDULE										
TAG	MANUFACTURER	MODEL	UNIT LENGTH	BTUH/LIN FT.	ELECTRICAL					NOTES
					VOLTAGE	PHASE	FLA	MCA	POWER	
EBB-1	STELPRO	AB03029W	1' - 10"	850	240 V	1	1.3 A	1.6 A	300 W	ALL
EBB-2	STELPRO	AB0752W	3' - 2"	850	240 V	1	3.1 A	4.0 A	750 W	ALL
NOTES: 1. COLOR TO BE DETERMINED BY OWNER. 2. PROVIDE WITH MANUFACTURER'S ELECTRONIC LOW VOLTAGE RELAY WITH TRANSFORMER (RE153T) AND WALL THERMOSTAT - STE241.										

WATER HEATER SCHEDULE														
TAG	MANUFACTURER	MODEL	APPROXIMATE GAL	FUEL TYPE	HEATING CAPACITY	EWT (°F)	LWT (°F)	ELCTRICAL					NOTES:	
								VOLTS	PHASE	FLA	WATTS	MCA		MOCP
DWH-1	AO SMITH	HPTU-50N	50	ELEC	15355.0 Btu/h	45 °F	120 °F	240 V	1	19	4500 W	24 A	30 A	ALL
NOTES: 1. PROVIDE WITH DUCT ADAPTER KIT AND WALL CAPS FOR EXTERIOR DUCT PENETRATIONS. ALL DUCTING SHALL BE INSULATED HARD DUCT, SIZE AND MAKE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.														

REV: 1DATE: 2026.04.23DESCRIPTION: ISSUED FOR BIDBY: JCK

HALEY WARD

One Merchants Plaza, Suite 701
Bangor, Maine 04401
207.989.4824

WWW.HALEYWARD.COM

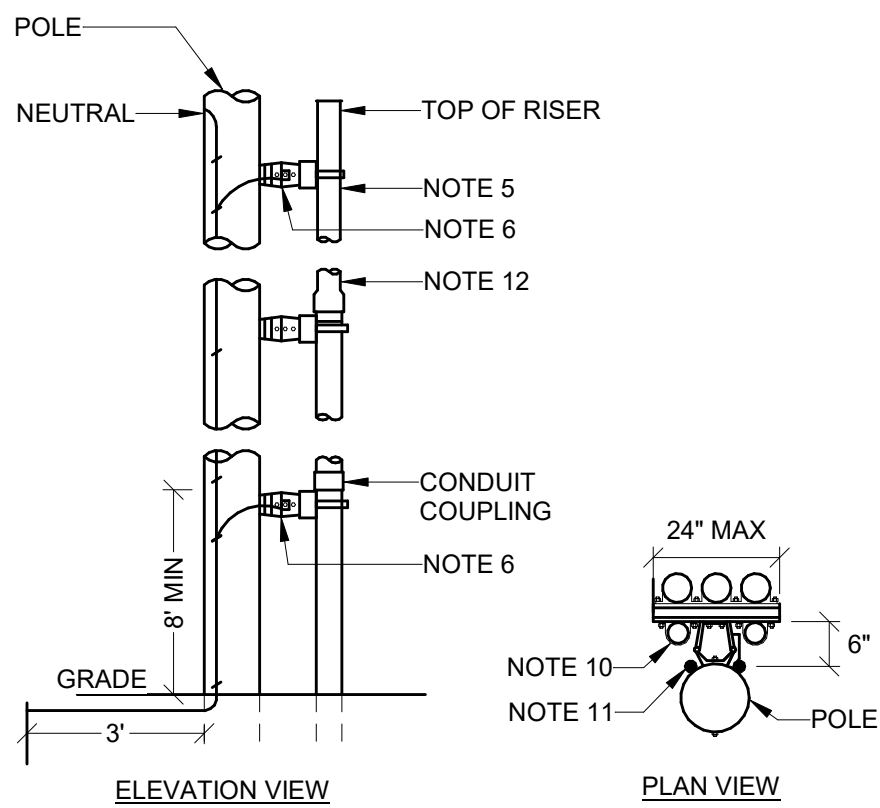
PROJECT: MAINE IF&W HEAT PUMP & ELECTRICAL UPGRADES
JONESBORO, MAINE

TITLE: MECHANICAL SCHEDULES

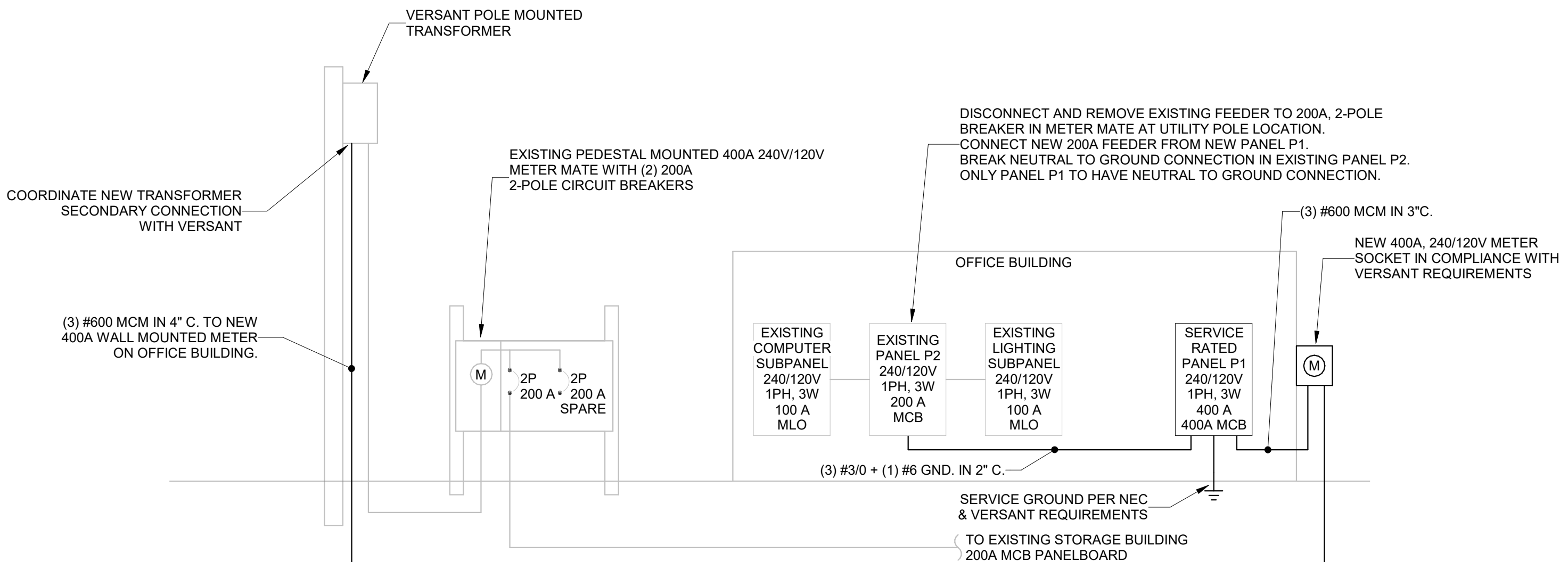
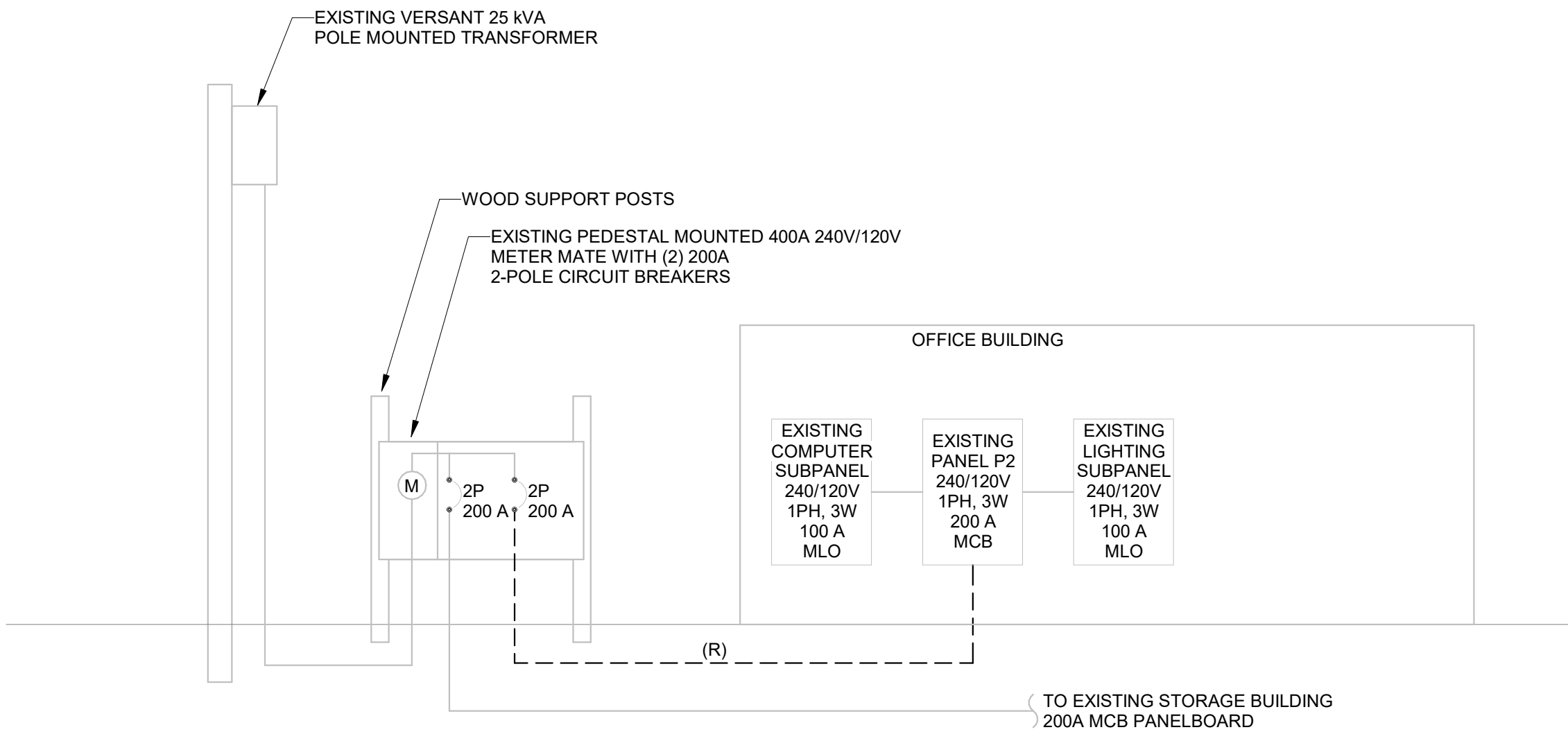
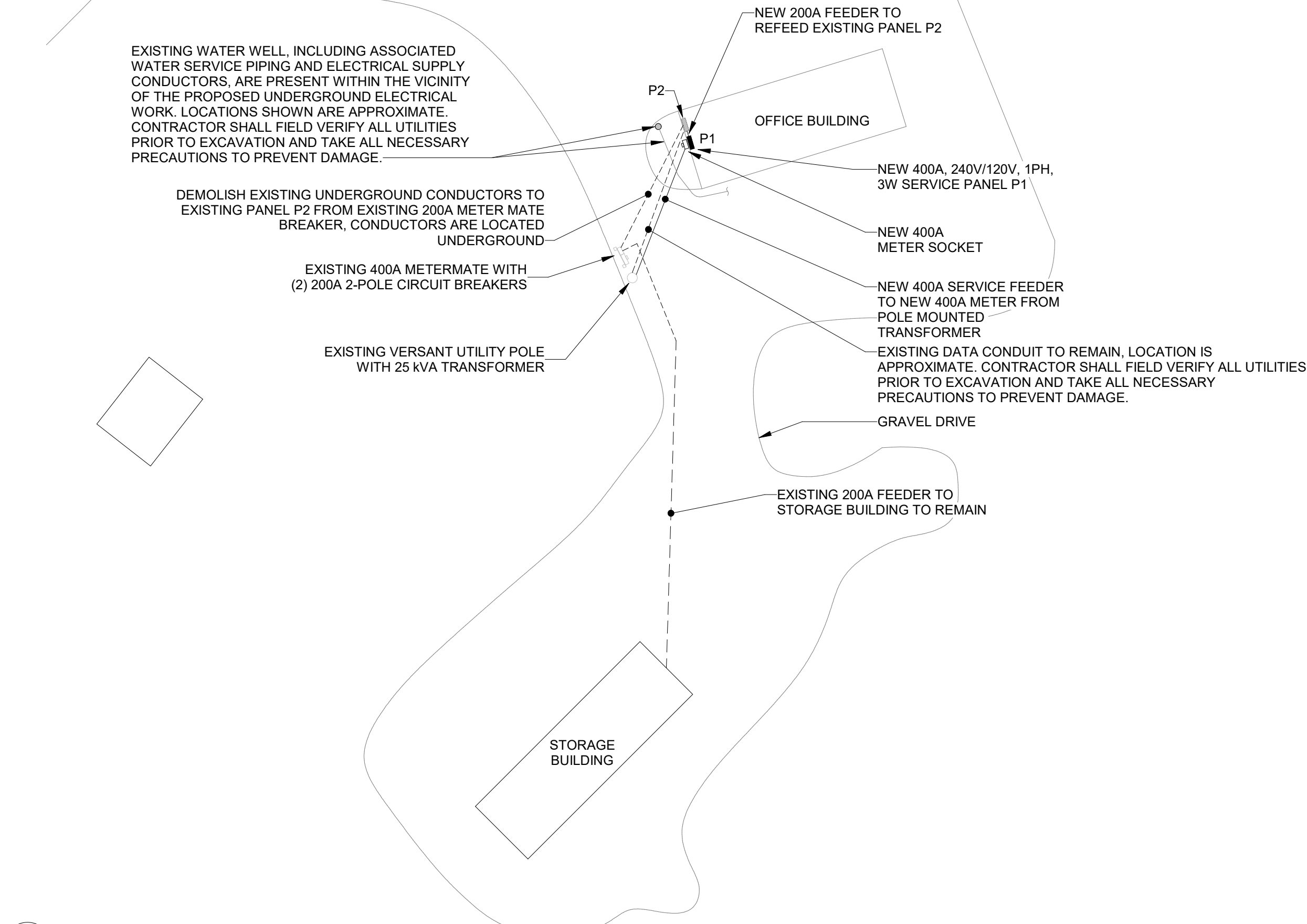
STATE OF MAINE
JEREMY BEAULIEU
No. 18076
LICENSED PROFESSIONAL ENGINEER

DATE: 2026.04.23
SCALE:
DRAWN BY: ITB
DESIGNED BY: ITB
CHECKED BY: JNB
PROJECT No.: HW PROJECT #: 10377.041
BGS PROJECT #: 3845
DRAWING NO.:
REV:

M-601



- GENERAL NOTES:**
1. STANDOFF BRACKETS ARE REQUIRED WHEN MORE THAN ONE CONDUIT PER UTILITY IS TO BE INSTALLED ON A POLE.
 2. ALL THREE PHASE PRIMARY RISERS, WHETHER STAND OFF BRACKETS ARE USED OR NOT, SHALL BE RIGID STEEL FOR THE FIRST SECTION.
 3. ON SINGLE PHASE PRIMARY, SECONDARY AND SERVICE URD RISERS USING STAND OFF BRACKETS, RIGID STEEL OR SCHEDULE 80 MAY BE USED.
 4. WHERE RIGID STEEL OR SCHEDULE 80 PVC IS USED FOR THE RISER, ONE BRACKET SHALL BE USED TO SUPPORT EACH SECTION OF CONDUIT UP TO 10 FEET IN LENGTH. EACH BRACKET IS TO BE PLACED JUST BELOW THE RISER CONDUIT COUPLING.
 5. CONDUIT SECTIONS FOR SINGLE PHASE OR TREE PHASE RISERS USING STAND OFF BRACKETS SHALL BE RIGID STEEL OR SCHEDULE 80 PVC CONDUIT ONLY (SEE NOTE 2), WITH THE EXCEPTION THAT SCHEDULE 40 PVC SUNLIGHT RESISTANT CONDUIT MAY BE USED FOR THE TOP SECTION FO THE RISER (NOT LONGER THAN 10'). IF THE TOP SECTION IS LONGER THAN 24\"/>



REV.	DATE	DESCRIPTION	BY	CHK.
DRAWING ISSUE STATUS				
ISSUED FOR BID				
 HALEY WARD One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM				
PROJECT MAINE IF&W HEAT PUMP & ELECTRICAL UPGRADES JONESBORO, MAINE				
TITLE ELECTRICAL SITE PLAN AND ONE-LINE DIAGRAMS				
DATE 2026.04.23		SCALE As indicated		
DRAWN BY TJA		DESIGNED BY TJA		CHECKED BY APG
PROJECT No. HW PROJECT #: 10377.041 BGS PROJECT #: 3845				
DRAWING No. E-100				

