

20Ø

ROUND DUCT

# MECHANICAL AND ELECTRICAL ABBREVIATIONS

RE EXISTING EQUIPMENT TO BE A/AMP AMPERE AC ALTERNATING CURRENT DISCONNECTED AND REMOVED AFF ABOVE FINISHED FLOOR RGS RIGID GALVANIZED STEEL CONDUIT EXISTING EQUIPMENT TO BE DISCONNECTED, AIC AMPS INTERRUPTING CURRENT REMOVED AND RELOCATED AMB AMBIENT ANSI AMERICAN NATIONAL STANDARDS RM ROOM INSTITUTE RPD REDUCED PRESSURE DEVICE AS AIR SEPARATOR RPM REVOLUTIONS PER MINUTE ATC AUTOMATIC TEMPERATURE CONTROL RWL RAIN WATER LEADER AVG AVERAGE AWG AMERICAN WIRE GAUGE S&R SUPPLY AND RETURN AWT AVERAGE WATER TEMPERATURE SP STATIC PRESSURE SPDT SINGLE POLE DOUBLE THROW BTU BRITISH THERMAL UNITS SPEC SPECIFICATION BTUH BRITISH THERMAL UNITS/HOUR SPST SINGLE POLE SINGLE THROW SQ SQUARE STAINLESS STEEL CONDUIT(S) C/B CIRCUIT BREAKER STD STANDARD CI CAST IRON SW SWITCH CKT CIRCUIT SWBD SWITCHBOARD CU FT CUBIC FEET TAG IDENTIFICATION OF EQUIPMENT CW COLD WATER TEMPERATURE DIFFERENCE DEPTH TEMP TEMPERATURE DC DIRECT CURRENT TSP TOTAL STATIC PRESSURE DCV DOUBLE CHECK VALVE TYP TYPICAL DEG or ° DEGREE DIA or Ø DIAMETER UF UNFUSED DN DOWN DWG DRAWING VOLTAGE VA VOLT AMPERE EAT ENTERING AIR TEMPERATURE VEL VELOCITY ELEC ELECTRICAL VIF VERIFY IN FIELD EM EMERGENCY VOL VOLUME EMT ELECTRICAL METALLIC TUBING EXPANSION TANK (HVAC) W WATT

WG WIREGUARD

WPD WATER PRESSURE DROP

WI WIDTH

WTR WATER

EWT ENTERING WATER TEMPERATURE

EXP EXPANSION

FD FLOOR DRAIN

FAHRENHEIT

FOR FUEL OIL RETURN

FOS FUEL OIL SUPPLY

FT FOOT OR FEET

GF GROUND FAULT

HP HORSEPOWERT

HW HOT WATER

IN INCHES

GPM GALLONS PER MINUTE

HVAC HEATING, VENTILATION

HWR HOT WATER RETURN

HWS HOT WATER SUPPLY

INSIDE DIAMETER

(PRESSURE)

IW INDIRECT WASTE

JB JUNCTION BOX

LENGTH

LF LINEAR FEET

MA MILLIAMPERE

MECH MECHANICAL

MFR MANUFACTURER

MAX MAXIMUM

MIN MINIMUM MLO MAIN LUGS ONLY

KVA KILOVOLT AMPERE KW KILOWATT

IN WG NCHES OF WATER, GAUGE

LWT LEAVING WATER TEMPERATURE

MBH BTU PER HOUR (THOUSAND)

NEC NATIONAL ELECTRICAL CODE

PRV PRESSURE REDUCING VALVE

PSI POUNDS PER SQUARE INCH

MC METAL CLAD CABLE

N.C. NORMALLY CLOSED

N.O. NORMALLY OPEN

NIC NOT IN CONTRACT

OD OUTSIDE DIAMETER

PD PRESSURE DROP PF POWER FACTOR

NTS NOT TO SCALE

OA OUTSIDE AIR

P POLE

PH/Ø PHASE PNL PANELBOARD

PRESS PRESSURE

QTY QUANTITY

AND AIR CONDITIONING

HZ FREQUENCY (CYCLES PER SECOND)

GA GAUGE

GAL GALLONS

GND GROUND

H HEIGHT

FMC FLEXIBLE METALLIC TUBING

# MECHANICAL & ELECTRICAL GENERAL NOTES

THE PROJECT DRAWINGS AND SPECIFICATIONS ARE BASED ON THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI) DOCUMENTATION FORMAT. SPECIFICATION AND DRAWING CONTENTS ARE ARRANGED BY TOPIC AND CATEGORY AND ARE NOT INTENDED TO AWARD DIVISION OF WORK. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED HVAC AND ELECTRICAL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, CALIBRATED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER. DIFFERENCES BETWEEN THE DESIGN INTENT AND/OR ACTUAL INSTALLATION LOCATION, MEANS AND METHODS ARE INCLUDED IN THIS CONTRACT AND SHALL NOT CONSTITUTE A CHANGE ORDER ON THE BASIS OF DRAWING, ENGINEERING AND/OR COORDINATION TIME. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE

COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL

PERFORM ALL WORK IN COMPLIANCE WITH THE SPECIFICATIONS, APPLICABLE CODES, ORDINANCES AND THE REGULATORY AGENCIES HAVING JURISDICTION. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION

OF THE ENGINEER. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE PROVIDE THE REQUIRED/SPECIFIED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING INTERIOR WALLS OR FLOOR SLABS.

INSTALL FLOOR-MOUNTED EQUIPMENT ON A CONCRETE HOUSEKEEPING PAD. ENCLOSED CONTROLLERS SHALL BE PROVIDED BY THE CONTRACTOR PROVIDING THE EQUIPMENT REQUIRING AN ENCLOSED CONTROLLER. REQUIREMENTS ARE SPECIFIED UNDER DIVISION 26: "ENCLOSED CONTROLLERS". MOTOR EFFICIENCIES SHALL BE AS INDICATED IN THE SPECIFICATIONS. PROVIDE PIPING, CONDUIT AND ALL OTHER ACCESSORIES AS REQUIRED FOR PROPER AND

PROFESSIONAL SYSTEMS INSTALLATION. TEST AND BALANCE ALL MECHANICAL AND ELECTRICAL SYSTEMS. PROVIDE ADDITIONAL TESTS AS REQUIRED BY THE SPECIFICATIONS.

DO NOT INSTALL PIPING OR DUCTWORK OVER ELECTRICAL PANELS, OR TRANSFORMERS. PROVIDE ADDITIONAL TRANSITIONS AND OFFSETS IN ALL PIPING, OR CONDUIT FOR COORDINATION WITH BUILDING STRUCTURE AND CONSTRUCTION.

THIS PROJECT INVOLVES THE RENOVATION OF AN EXISTING FACILITY; BEFORE SUBMITTING THE BID, CONTRACTORS SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING

CONDITIONS UNDER WHICH THE PROJECT IS TO BE COMPLETED. CONTRACTORS SHALL BE HELD RESPONSIBLE FOR ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW EVERY DEVICE, APPURTENANCE, PIPE, WIRE OR CONDUIT TO BE REMOVED. MEP EQUIPMENT, UNITS, AND SYSTEMS NOT BEING REUSED, SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ASSOCIATED HANGERS, SUPPORTS, BASES, PADS, PIPES, CONDUITS, WIRES, INSULATION, AND CONTROLS BACK TO THE POINT OF ORIGIN. EQUIPMENT, PIPING, OR CONDUIT SHALL NOT BE ABANDONED IN-PLACE UNLESS SPECIFICALLY SO

PROPERLY DISPOSE OF DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES, REGULATIONS, AND DEP STANDARDS. TURN OVER TO THE OWNER EQUIPMENT SO INDICATED. RELOCATE EXISTING EQUIPMENT, DEVICES, PIPING, WIRING, AND RELATED SYSTEMS AS REQUIRED FOR CONSTRUCTION PURPOSES. ALL EXISTING SYSTEMS SHALL BE FULLY OPERATIONAL, INCLUDING RECONNECTION TO SERVICES AND UPGRADED SYSTEMS. ALL RELOCATED EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION. REBALANCE NEW AND EXISTING MECHANICAL AND ELECTRICAL SYSTEMS ASSOCIATED WITH THE

RENOVATION, INCLUDING RENOVATED AREAS AND AREAS AFFECTED BY SYSTEM MODIFICATIONS. SYSTEMS REQUIRING TO REMAIN IN OPERATION DURING DEMOLITION SHALL BE CAREFULLY PROTECTED FROM DAMAGE AND CONTAMINATION BY THE CONSTRUCTION PROCESS.

INDICATED ON THE DOCUMENTS. PIPING SHALL BE SUPPORTED FROM STRUCTURE ABOVE. TO MAXIMIZE HEAD ROOM, INSTALL TIGHT TO BOTTOM OF BEAMS WHEN RUNNING PERPENDICULAR TO BEAM. INSTALL PIPING TIGHT TO FLOOR SLAB WHEN RUNNING PARALLEL TO BEAM. PROVIDE ALL NECESSARY FITTINGS AND TRANSITIONS. 3. PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS.

PROVIDE THROTTLING VALVES AND SHUT-OFF VALVES AS SPECIFIED IN ADDITION TO THOSE

ELECTRICAL

1. IT IS NOT THE INTENTION TO SHOW EVERY FITTING, WIRE, OR DEVICE. ALL SUCH ITEMS SHALL BE FURNISHED AND INSTALLED AS NECESSARY FOR A COMPLETE SYSTEM. DO NOT INSTALL CONDUIT IN CONCRETE SLABS, UNLESS SPECIFICALLY APPROVED BY THE

STRUCTURAL ENGINEER. EACH INDIVIDUAL ELECTRICAL HOMERUN SHOWN ON FLOOR PLANS, DETAILS, OR SCHEDULES SHALL BE PROVIDED IN A DEDICATED RACEWAY.

PROVIDE POWER TO MECHANICAL EQUIPMENT SHOWN ON MECHANICAL PLANS, RISERS, SCHEDULES, OR IN SPECIFICATIONS. MECHANICAL EQUIPMENT IS NOT NECESSARILY SHOWN ON ELECTRICAL PLANS. REFER TO MECHANICAL PLANS AND SCHEDULES ON MEP DRAWINGS FOR LOCATIONS AND SPECIFIC ELECTRICAL REQUIREMENTS. COORDINATE EXACT LOCATION AND ORIENTATION OF EQUIPMENT WITH OTHER TRADES

CODES LISTED BELOW APPLY TO ALL DRAWINGS AND SPECIFICATIONS ON THIS PROJECT

2016 CONNECTICUT STATE BUILDING CODE

• 2016 CONNECTICUT STATE FIRE SAFETY CODE • THE FOLLOWING AS REFERENCED BY THE ABOVE CODES AND AMENDMENTS:

 2012 INTERNATIONAL BUILDING CODE (IBC) • 2012 INTERNATIONAL MECHANICAL CODE (IMC) • 2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) o 2015 CONNECTICUT STATE FIRE PREVENTION CODE ○ NFPA 70 - NATIONAL ELECTRICAL CODE (NEC), 2014

206 West Newberry Road South Bloomfield, CT 06002 Tel: (860) 286-9171 www.bvhis.com

**CONSTRUCTION SET** 04.04.2018

**KEY PLAN** 

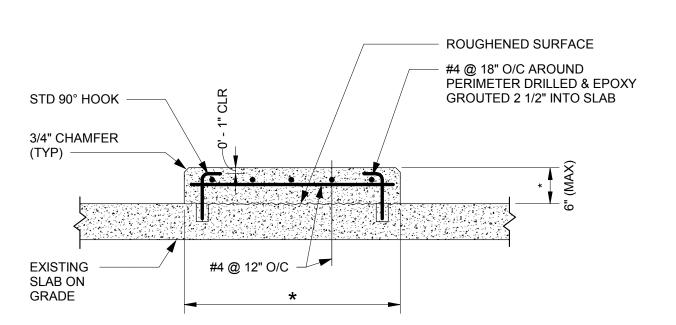
	REVISIONS										
NO.	DATE	ISSUE									
DATE	0	04.04.2018									
	1	/8" = 1'-0"									
SCALE											
DRAWN	M	EL / JCK									
	-5 A	RA									

JOB NO. **21-18-024** 

MECH. & ELEC. **GENERAL NOTES, ABBREVIATIONS** & SYMBOL LIST

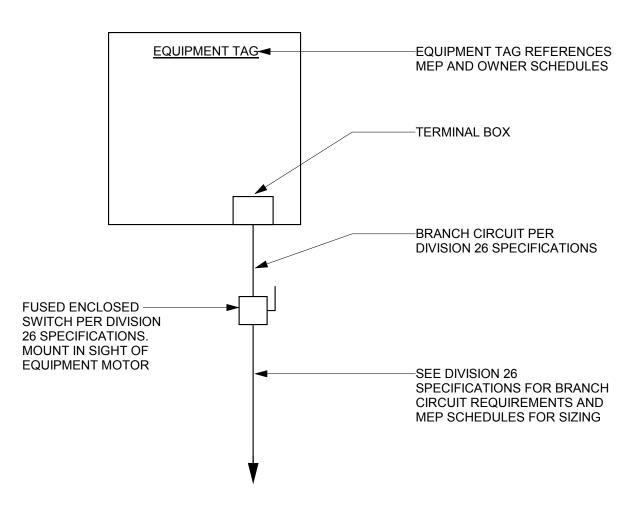
**ME-001** 

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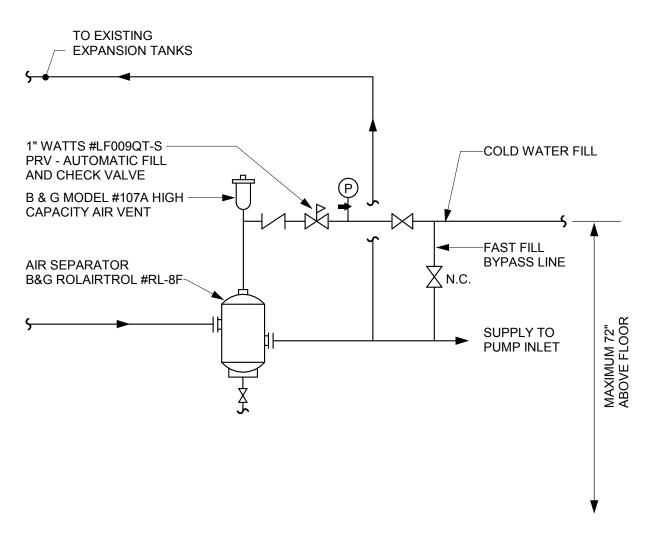
\* INDICATES CONTRACTOR TO COORDINATE QUANTITY, SIZE, AND LOCATION OF ALL MECHANICAL HOUSEKEEPING PADS WITH MECHANICAL DRAWINGS AND MECHANICAL EQUIPMENT SUPPLIERS.

TYPICAL HOUSEKEEPING PAD SECTION NOT TO SCALE

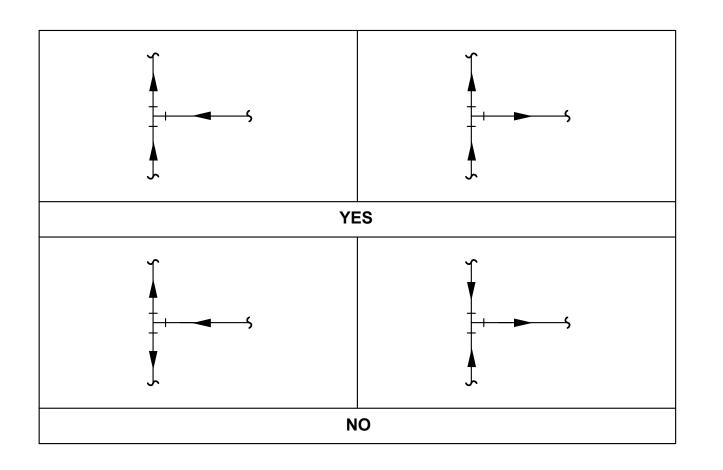


NOTE:
THIS DETAIL IS FOR ALL EQUIPMENT WHERE EQUIPMENT REQUIRES POWER AND WHERE THERE ARE NO MOTORS INVOLVED OR WHERE SPECIFICATIONS OR SCHEDULES FOR MULTIPLE MOTOR EQUIPMENT SPECIFICALLY INDICATE ONE POINT POWER CONNECTION. CONTRACTOR TO PROVIDE WIRING BETWEEN REMOTE DISCONNECTS, STARTERS AND MOTORS. SEE EQUIPMENT SCHEDULES AND SPECIFICATIONS.

TYPICAL EQUIPMENT CONNECTION DETAIL



AIR SEPARATOR AND MAKE-UP WATER ASSEMBLY DETAIL NOT TO SCALE



**ALLOWABLE FLOW CONFIGURATIONS IN PIPING TEES - HVAC SYSTEMS** 

		MODEL		I-B-R	MBH	FUE	L OIL	POWER	BLOWER	BLOWER	
TAG	MFR			MODEL GROSS NET		GPH TYPE		FLAME MODEL	MOTOR HP	MOTOR RPM	
B-1	SMITH	LO28RTS-H	HE-W-9	2249	1956	18.8	#2	C2-0B	1 1/2	3450	
B-2	SMITH	LO28RTS-H	HE-W-9	2249	1956	18.8	#2	C2-0B	1 1/2	3450	
B-3	SMITH	LO28RTS-H	HE-W-9	2249	1956	18.8	#2	C2-0B	1 1/2	3450	
TAG	WORKING PRESSURE (PSIG)		RELIEF VALVE (PSIG)	EWT (°F)		LWT (°F)		WATER CONTENT (GAL)	MAX. WPD (PSIG)	FLUE SIZE (IN)	
B-1	3	30	40	160		200		257.9	2.0	14	
B-2	3	30	40	16	160		200		2.0	14	
B-3	3	80	40	160		200		257.9	2.0	14	
				ELECT	RICAL						
TAG	VOLTS / PHASE		HOME RUN		BRA	NCH CIRCUI	SW / FUSE		FUSE		
B-1	208/3	20A-	3P LLP-BURNER	3/4"C - 3 #12 & 1 #12 GND					30 / 15		
B-2	208/3	20A-	3P LLP-BURNER		3/4"C - 3 #12 & 1 #12 GND					/ 15	
B-3	208/3	20A-	3P LLP-BURNER		3/4"C -		30 / 15				

1. EACH BOILER TO BE BALANCED TO 200 GPM

	*****AL	TERNATE	*****CAST IRON B	OILER SCI	HEDULE	(HOT WA	TER)****	*ALTERNA	\TE****			
				I-B-R MBH		FUE	L OIL	POWER	BLOWER MOTOR HP	BLOWER MOTOR RPM		
TAG	MFR		MODEL	GROSS	NET	GPH TYPE		FLAME MODEL				
B-1	SMITH	GO28RTS-I	HE-W-9	2249	1956	18.8	#2	C2-GO-20B	1 1/2	3450		
B-2	SMITH	GO28RTS-I	∃E-W-9	2249	1956	18.8	#2	C2-GO-20B	1 1/2	3450		
B-3	SMITH	GO28RTS-I	HE-W-9	2249	1956	18.8	#2	C2-GO-20B	1 1/2	3450		
	1		I			I			I			
TAG	WORKING PRESSURE (PSIG)		RELIEF VALVE (PSIG)	EWT (°F)		LWT (°F)		WATER CONTENT (GAL)	MAX. WPD (PSIG)	FLUE SIZE (IN)		
B-1	8	30	40	160		200		257.9	2.0	14		
B-2	8	30	40	160		200		257.9	2.0	14		
B-3	8	30	40	160		200		257.9	2.0	14		
				ELECT	RICAL							
TAG	VOLTS / PHASE		HOME RUN		BRAN	CH CIRCUIT SIZE			SW / FUSE			
B-1	208/3	20A-	3P LLP-BURNER		3/4"C - 3#12 & 1 #12 GND					30 / 15		
B-2	208/3	20A-	3P LLP-BURNER		3/4"C - 3#12 & 1 #12 GND					30 / 15		
B-3	208/3	20A-	3P LLP-BURNER		3/4"C -	30 / 15						

1. EACH BOILER TO BE BALANCED TO 200 GPM.

2. I-B-R BURNER CAPACITY GAS MBH: 2718

# **GENERAL NOTES:**

- 1. SEE SPECIFICATION SECTION "PANELBOARDS" FOR FEATURES OF PANELBOARDS
- 2. VERIFY SIZE, QUANTITY AND TYPES OF CIRCUIT BREAKERS IN PANELBOARDS WITH PLANS, RISERS, SCHEDULES AND SPECIFICATION. 3. ALL PANELBOARDS ARE LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS UNLESS LISTED OTHERWISE.

- A. NEW PANELBOARD REPLACING EXISTING.
- B. DISTRIBUTION PANELBOARD.
- C. PROVIDE PANELBOARD WITH ISOLATED EQUIPMENT GROUND BUS BAR. D. PROVIDE PANELBOARD WITH STAINLESS STEEL TRIM AND DOOR.
- E. PROVIDE PANELBOARD WITH INTEGRAL LIGHTING CONTACTOR.
- F. PROVIDE PANELBOARD WITH AUXILIARY GUTTER.
- G. PROVIDE 30 MA GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKERS. H. PROVIDE 5 MA GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKERS.
- PROVIDE PANELBOARD WITH NEMA 4X ENCLOSURE.
- J. LIGHTING CONTROL PANEL WITH ABILITY TO TAKE INPUT FROM LOW VOLTAGE DEVICES (SWITCHES, OCCUPANCY SENSORS, ETC.).

PANELBOARD NAME	VOLTAGE	MAIN OCPD SIZE	MAIN BUS SIZE	MOUNTING	POLE CAPACITY	MIN. AISC RATING	NOTES	CIRCUITS							
IVAIIL		OIZE	JIZE		OAI AOITT	IVATINO		AMPS	POLES	BRANCH	FEEDER	SPARE	NOTES		
LLP-BURNER	208/120	MLO	125A	SURFACE	24	10,000		20	3		3	1			
								20	1	1		4			

PANELBOARD SCHEDULE

206 West Newberry Road South Bloomfield, CT 06002 Tel: (860) 286-9171 www.bvhis.com

**CONSTRUCTION SET** 04.04.2018

KEY PLAN

04.04.2018 As indicated JOB NO. **21-18-024** 

**MECHANICAL AND ELECTRICAL DETAILS & SCHEDULES** 

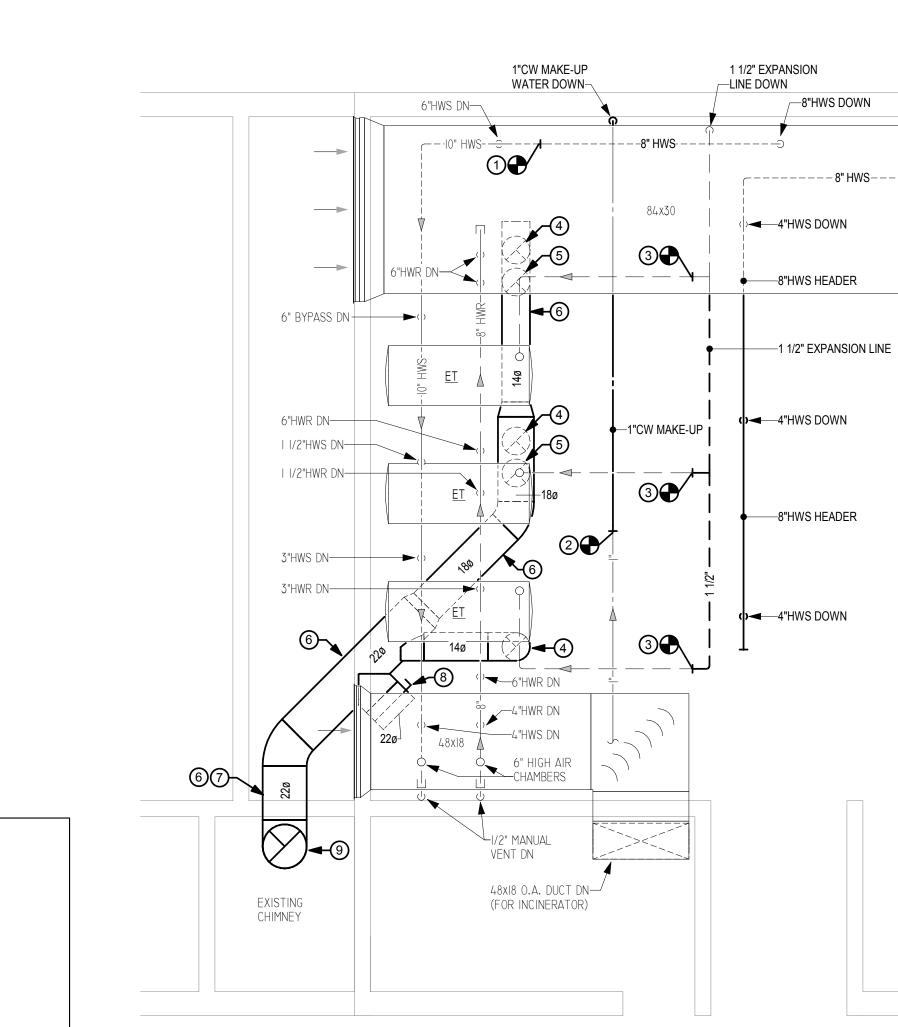
**ME-002** 

04.04.2018

JOB NO. **21-18-024** SHEET TITLE: **BOILER ROOM 207** 

**MECHANICAL PLANS** 

DRAWING NO.



/—8"HWS DOWN

84x30 O.A. DUCT DN-

(FOR BOILERS)

# **UPPER LEVEL DEMOLITION NOTES**

- 1 REMOVE HOT WATER SUPPLY PIPING INCLUDING OS&Y VALVE.
- 2 REMOVE BREECHING.

84x30 O.A. DUCT DN────

(FOR BOILERS)

— **→ ••••** I" EXPANSION LINE DN

3/4"CW MAKE-UP DN

√1/2" MANUAL

48x18 O.A. DUCT DN—

(FOR INCINERATOR)

VENT DN

6" BYPASS DN

EXISTING CHIMNEY

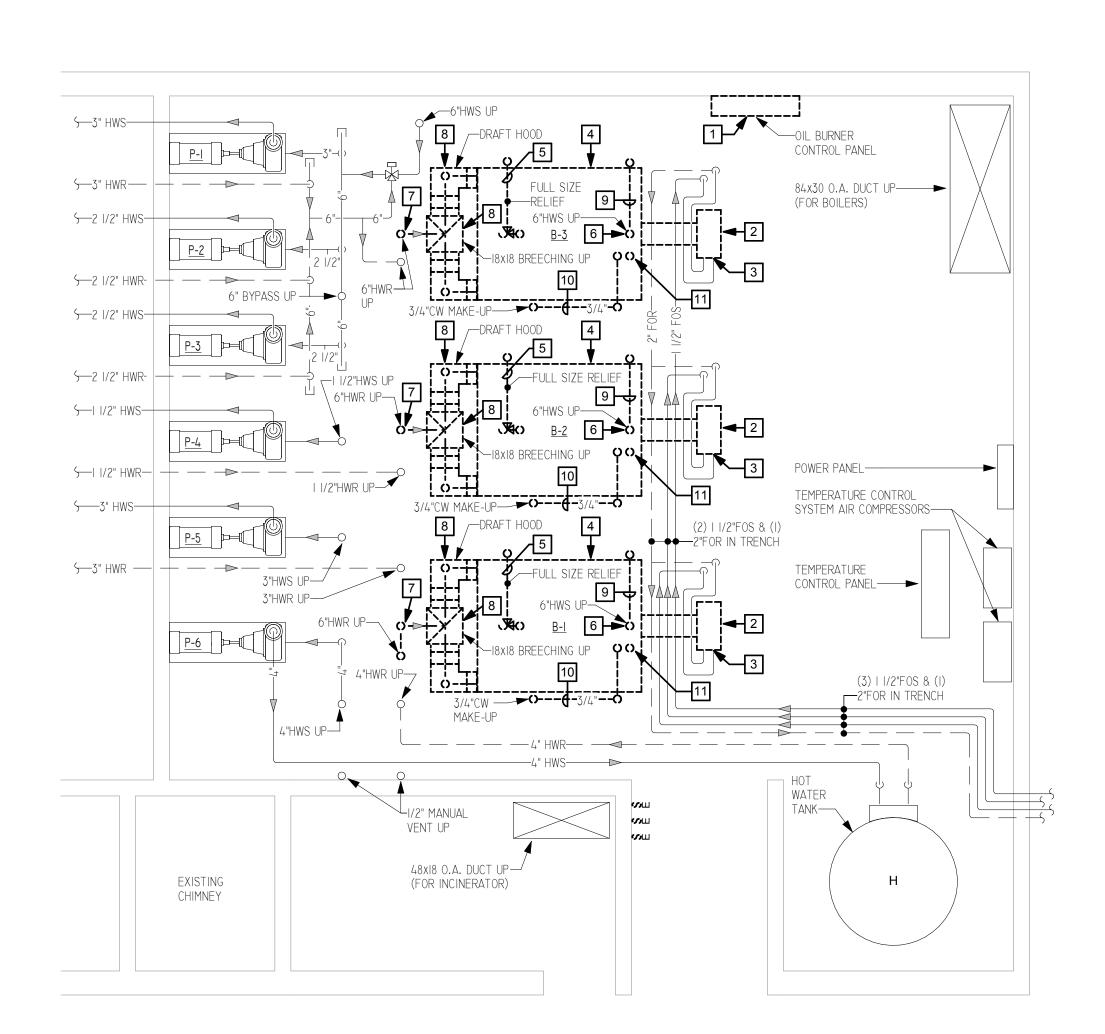
1 UPPER LEVEL MECHANICAL DEMOLITION PLAN 1/4" = 1'-0"

3 REMOVE HOT WATER SUPPLY HEADER TO LIMIT SHOWN.

REMOVE COLD WATER MAKE-UP HEADER PIPING TO LIMIT SHOWN.

- 4 REMOVE COLD WATER MAKE-UP PIPING TO BOILER.
- 6 REMOVE EXPANSION LINE PIPING TO LIMIT SHOWN.

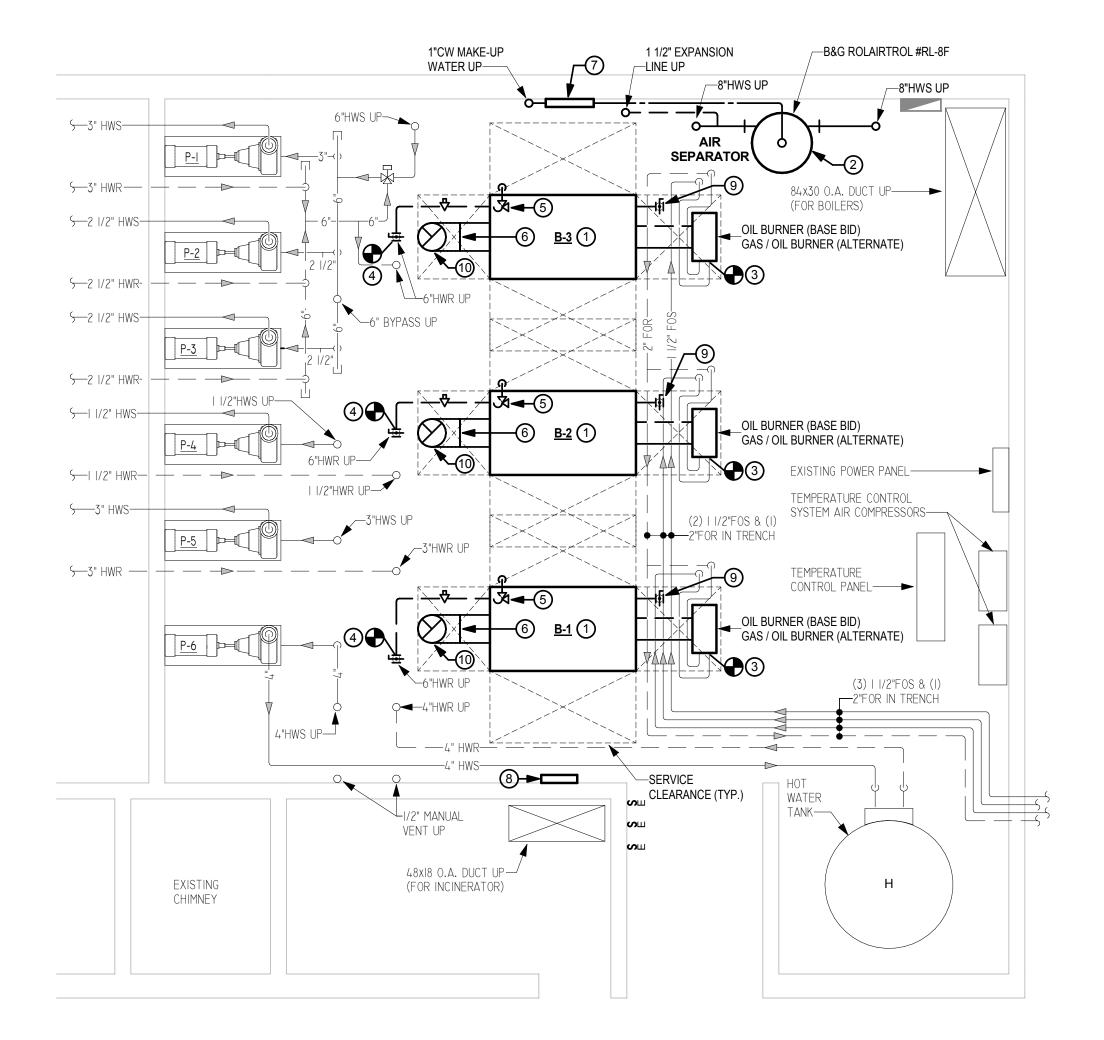
# 3 UPPER LEVEL MECHANICAL PLAN 1/4" = 1'-0"



2 LOWER LEVEL MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"

# **LOWER LEVEL DEMOLITION NOTES**

- 1 REMOVE OIL BURNER CONTROL PANEL AND ALL ASSOCIATED CONTROLS. 2 REMOVE OIL BURNER AND ASSOCIATED CONTROLS.
- REMOVE FUEL OIL SUPPLY AND RETURN PIPING CONNECTIONS TO OIL BURNER. PIPING TO REMAIN.
- 4 REMOVE BOILER AND BRICK BASE.
- 5 REMOVE BOILER RELIEF VALVE AND ALL ASSOCIATED PIPING.
- REMOVE HOT WATER SUPPLY PIPING.
- 7 REMOVE HOT WATER RETURN PIPING UP TO, AND INCLUDING OS&Y VALVE. REMOVE ADDITIONAL HOT WATER RETURN PIPING IF REQUIRED.
- 8 REMOVE BREECHING. 9 REMOVE LOW WATER CUT-OFF PIPING.
- 10 REMOVE COLD WATER MAKE-UP PIPING ASSEMBLY AND PIPING TO BOILER.
- 11 REMOVE EXPANSION LINE PIPING TO BOILER.



# **LOWER LEVEL DRAWING NOTES**

- BOILER TO BE MOUNTED ON 6" HIGH CONCRETE HOUSEKEEPING PAD. SEE DETAIL ON DWG #ME-002.
- 2 AIR SEPARATOR TO BE MOUNTED ON 6" HIGH CONCRETE HOUSEKEEPING PAD. SEE DETAIL ON DWG #ME-002.

**UPPER LEVEL DRAWING NOTES** 

2 CONNECT NEW 1"CW MAKE-UP PIPING TO EXISTING CW MAKE-UP PIPING.

TUB BREECHING INTO EXISTING CHIMNEY. (BASE BID) PATCH AND REPAIR

9 22"Ø CHIMNEY LINER. (ALTERNATE) TERMINATE AT 2'-10" ABOVE EXISTING BRICK CHIMNEY WITH RAIN CAP.

6 BREECHING AT APPROXIMATELY 9'-9" A.F.F. TO CENTERLINE.

PIPING. ADAPT TO EXISTING 10" PIPING.

4 14"Ø BREECHING DOWN.

8 BAROMETRIC DAMPER.

5 14"Ø BREECHING WITH 45° OFFSET.

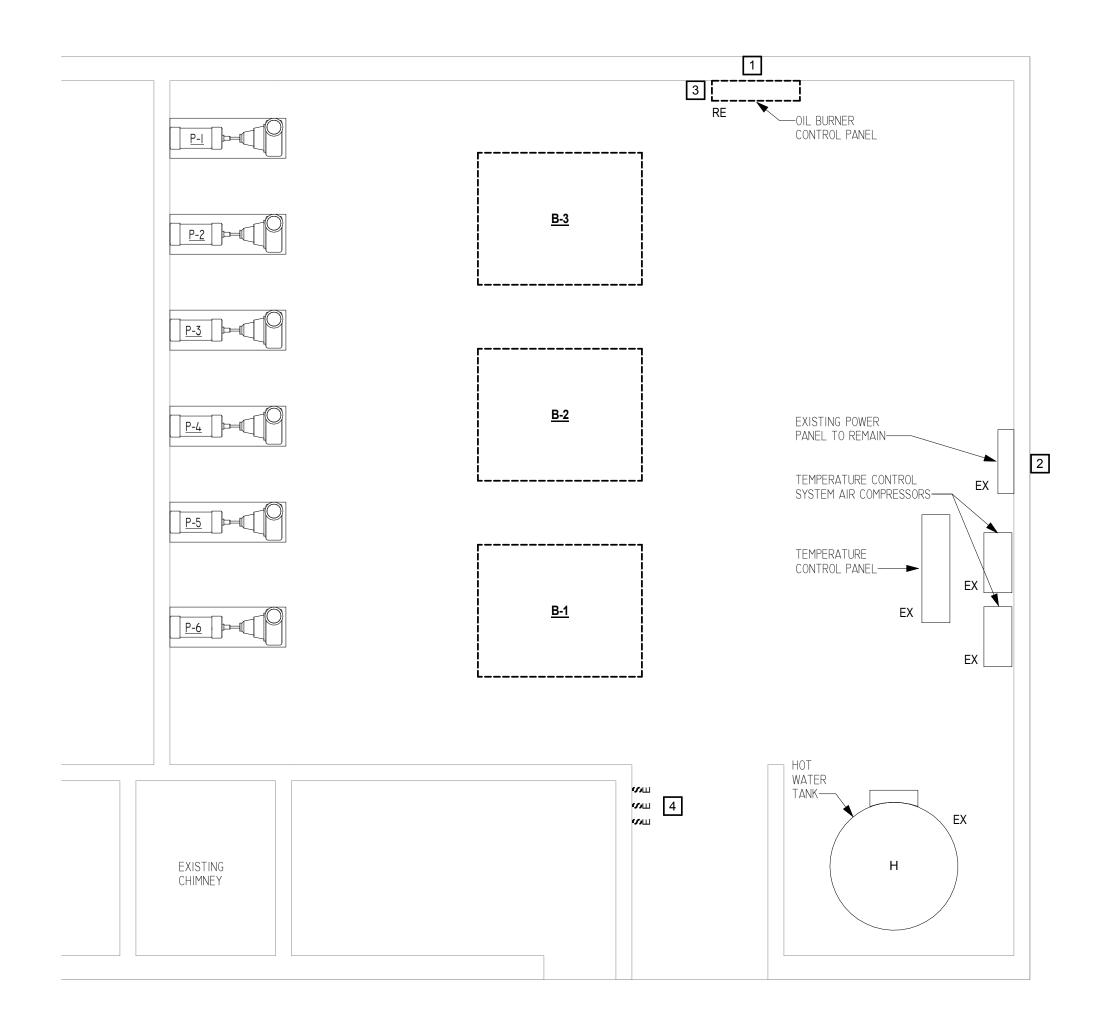
1 CONNECT NEW 8" HOT WATER SUPPLY PIPING TO EXISTING HOT WATER SUPPLY

(3) CONNECT NEW EXPANSION LINE PIPING TO EXISTING 1" EXPANSION LINE PIPING.

- CONNECT NEW 4" HOT WATER RETURN PIPING WITH BUTTERFLY VALVE TO EXISTING HOT WATER RETURN PIPING. ADAPT TO EXISTING 6" PIPING.
- TELIEF VALVE AND FULL SIZE PIPING. TERMINATE AT 6" A.F.F.
- 6 14"Ø BREECHING CONNECTION.
- OCLD WATER MAKE-UP ASSEMBLY. SEE DETAIL ON DWG #ME-002. LOCATE A MAXIMUM OF 6'-0" A.F.F.
- 8 "TEKMAR" CONTROLLER #284 OR "HEAT-TIMER" EQUIVALENT. TIE INTO EXISTING
- "BMS". COORDINATE WITH OWNERS REPRESENTATIVE.
  JEFF HAMMICK SNE BUILDING SYSTEMS 860-653-5095.
- 9 4" HOT WATER SUPPLY UP WITH BUTTERFLY VALVE. 10 14"Ø BREECHING UP.

4 LOWER LEVEL MECHANICAL PLAN 1/4" = 1'-0"

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1 ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

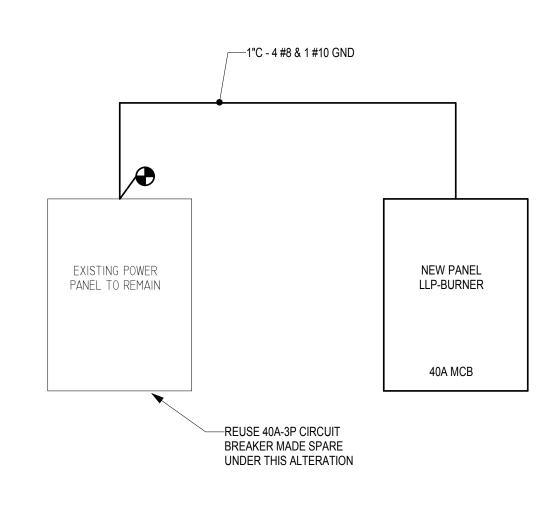
# DEMOLITION NOTES

- 1 EXISTING OIL BURNER CONTROL / POWER PANEL TO BE DISCONNECTED AND REMOVED WITH ASSOCIATED FEEDER BACK TO EXISTING POWER PANEL.
- 2 EXISTING CIRCUIT BREAKER FEEDING OIL BURNER CONTROL PANEL BEING REMOVED SHALL REMAIN AND BE REUSED TO FEED NEW PANEL LLP-BURNER.
- EXISTING CONDUITS FROM PANEL TO BURNERS SHALL REMAIN AND BE REUSED.

   EXISTING EMERGENCY SHUT-OFF SWITCHES FOR BOILERS SHALL BE DISCONNECTED AND REMOVED.

BASING TOWAR PARE TO REPARE TO STAND TOWAR ON THE MARK CONTROLLER ON TOLL THE LAND ON THE MARK CONTROLLER ON TOLL THE LAND ON

2 ELECTRICAL PLAN 1/4" = 1'-0"



3 PARTIAL POWER RISER DIAGRAM N.T.S.

# DRAWING NOTES

- 1) NEW WIRE TROUGH TO INTERSECT EXISTING CONDUITS TO BURNER LOCATIONS.
- 2 NEW BOILER EMERGENCY SHUT-OFF SWITCH. INTERFACE WITH BURNER CONTROLS.

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Bloomfield, CT 06002
Tel: (860) 286-9171 www.bvhis.com

# Boiler Replacement Project East Windsor Middle School

CONSTRUCTION SET
04.04.2018

REVISIONS

NO. DATE ISSUE

DATE

04.04.2018

CHECKED ARA

JOB NO. 21-18-024

SHEET TITLE:

As indicated

BOILER ROOM 207 ELECTRICAL PLANS

DRAWING NO.

E-101