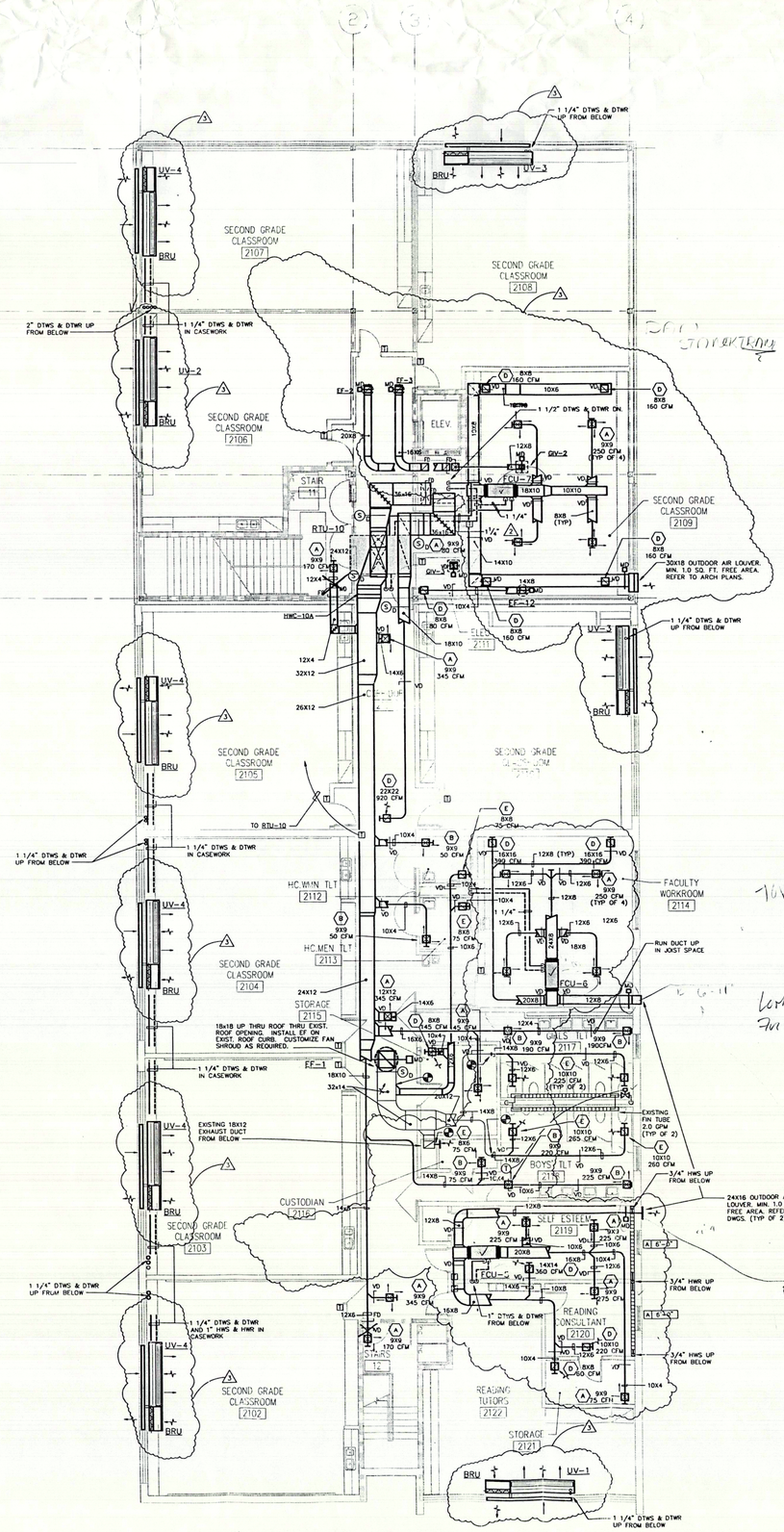
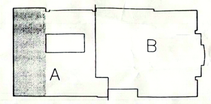


1/M1.03 UPPER LEVEL MECHANICAL FLOOR PLAN - AREA "A"

1/8" = 1'

GENERAL NOTE:

1. REFER TO DRAWING M3.01 FOR MECHANICAL LEGENDS AND ABBREVIATIONS.



KEY PLAN

NORTH

REVISIONS

DATE	MARK	DESCRIPTION
12/11/96		DRAWING ISSUED FOR STATE DEPT. OF EDUCATION REVIEW
2/10/97		DRAWING ISSUED FOR BID AND CONSTRUCTION
3/10/97	1	ADDENDUM #3
8/7/97	2	VALUE ENGINEERING
9/17/97	3	VALUE ENGINEERING BULLETIN #6

ADDITIONS AND RENOVATIONS TO THE

JOHN G. PRENDERGAST ELEMENTARY SCHOOL

59 FINNEY STREET
ANSONIA, CONNECTICUT

STATE PROJECT NO. 002-052 EA

Construction Manager

FUSCO CORPORATION

Long Wharf Maritime Center
555 Long Wharf Drive
Suite 14
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VANZELM HEYWOOD & SHADFORD INC
MECHANICAL AND ELECTRICAL ENGINEERS

VZHS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
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vZHS PROJECT NUMBER: 95241.01

KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

416 Slater Rd. New Britain, Connecticut 06050-2590 (203) 229-0361

Drawn by: FBH

Scale: 1/8"=1'-0"

UPPER LEVEL MECHANICAL FLOOR PLAN AREA "A"

Project no. 96026

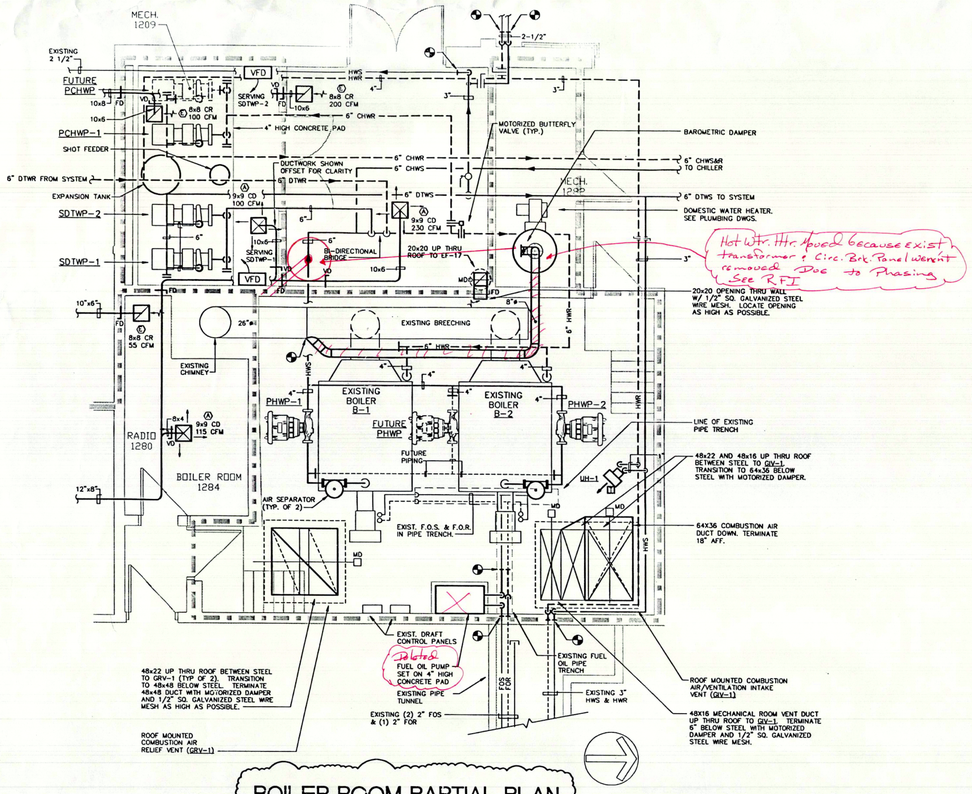
Drawing no. M1.03

Date: NOVEMBER 26, 1996

DRAWING NAME: M2A2
PLOT SCALE: 1/8" = 1'

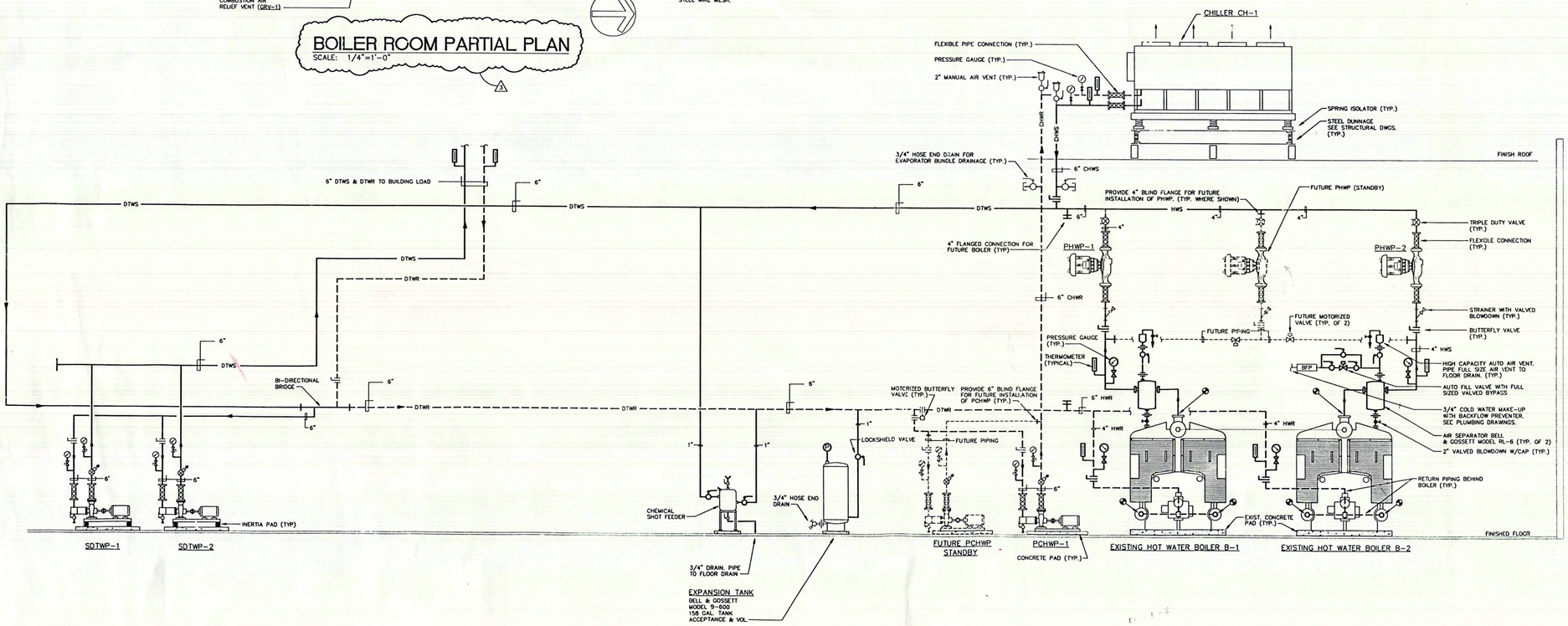
DRAWN BY: GJD
PLOT DATE: 09-16-97, at 15:53 by JMC

PROJECT No.: 95241.03



BOILER ROOM PARTIAL PLAN

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



DUAL TEMPERATURE WATER RISER DIAGRAM

NOT TO SCALE

Hot Wtr. Htr. moved because existing transformer & Circ. Brk. Panel were removed Due to Phasing See RFI

REVISIONS

DATE	MARK	DESCRIPTION
12/11/96		DRAWING ISSUED FOR STATE DEPT. OF EDUCATION REVIEW
2/10/97		DRAWING ISSUED FOR BID AND CONSTRUCTION
3/10/97	1	ADDENDUM #3
3/11/97	2	ADDENDUM #4
9/17/97	3	VALUE ENGINEERING BULLETIN #6

ADDITIONS AND RENOVATIONS TO THE

JOHN G. PRENDERGAST ELEMENTARY SCHOOL

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vZHS PROJECT NUMBER: 95241.01

KAESTLE BOOS ASSOCIATES, INC.
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Drawn by: rBH Scale: AS NOTED

MECHANICAL BOILER ROOM FLOOR PLAN AND RISER DIAGRAMS

Project no. 95026 Drawing M2

Date: NOVEMBER 26, 1996

HOT WATER BOILER SCHEDULE

UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	BOILER TYPE	OUTPUT (MBH)	AHRI EFFICIENCY (ETS-2000) (%)	WATER DATA								BURNER DATA			ELECTRICAL DATA		BURNER MOTOR HP	DIMENSIONS L x W x H (IN)	UNIT OPERATING WEIGHT (LBS)	APPROVAL	REMARKS
								MEDIA	BOILER CAPACITY (GAL)	RELIEF VALVE PRESSURE SETTING (PSIG)	BOILER PRESSURE RATING (PSIG)	EWT/LWT (DEG F)	DESIGN FLOW (GPM)	MIN./MAX. WATER FLOW (GPM)	PRESSURE DROP	FUEL	GAS INPUT (CFH)	MIN-MAX GAS INLET PRESSURE (IN W.C.)	VOLT/PHASE/HZ	FLA				
✳B-1	AERCO	BMK-3000	BOILER ROOM	BUILDING HEATING	CONDENSING FIRETUBE	2610-2880	93.5	WATER	55	50	160	157/180	240	25/350	3.0 PSIG @ 261 GPM	NATURAL GAS	3000	4 – 14	460/3/60	5	3.0	56 x 28 x 78	2580	UL/FM	ALL
✳B-2	AERCO	BMK-3000	BOILER ROOM	BUILDING HEATING	CONDENSING FIRETUBE	2610-2880	93.5	WATER	55	50	160	157/180	240	25/350	3.0 PSIG @ 261 GPM	NATURAL GAS	3000	4 – 14	460/3/60	5	3.0	56 x 28 x 78	2580	UL/FM	ALL

NOTES:
1. VENTLESS GAS TRAIN
2. MINIMUM TURNDOWN: 15:1
3. MAX NOX: 20 PPM, 3% O2 CORRECTED
4. COMBUSTION O2 LEVELS SHALL NOT EXCEED 7% THROUGHOUT ENTIRE FIRING RANGE
5. PROVIDE BOILER SEQUENCING WITH HW RESET
6. BOILER STAGING POINT NOT TO EXCEED 40%
7. BOILER MANUFACTURE TO PROVIDE 10-YEAR NON-PRORATED HEAT EXCHANGER WARRANTY
8. BOILER MANUFACTURE TO PROVIDE 2-YEAR NON-PRORATED CONTROLLER WARRANTY
9. BOILER MANUFACTURE TO PROVIDE LETTER OF GUARANTEE FOR AS BUILT FLUE AND COMBUSTION AIR INSTALLATION
10. PROVIDE CONDENSATE NEUTRALIZER FOR EACH BOILER AND COMMON FLUE DRAINS
11. ALTERNATE MANUFACTURES MUST COMPLY WITH ALL BASIS OF DESIGN PERFORMANCE, SAFETY, DURABILITY WARRANTY AND SYSTEM DESIGN REQUIREMENTS
12. SINGLE POINT POWER CONNECTION

✳ NEW BOILER SHALL BE PURCHASED BY OWNER; MECHANICAL CONTRACTOR SHALL COORDINATE DELIVERY TO SITE & RIGGING OF BOILER PLACEMENT. SEE NOTE M3 ON NEW WORK PLAN

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE/ CONFIG.	LOCATION	TANK WEIGHT (LBS)	MIN.TANK VOLUME (GAL)	MIN. ACCEPTANCE VOLUME (GAL)	SIZE (DIA x H)
ET-1	THE JOHN WOOD COMPANY JBER-25-011	D/V	BOILER PUMP ROOM	380	158	158	30"x 58"

TYPES:
C = COMPRESSION
D = DIAPHRAGM

CONFIGURATION:
H = HORIZONTAL
V = VERTICAL

PUMP SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	SYSTEM SERVING	MEDIA	FLOW RATE (GPM)	TDH (FT)	FLUID TEMP (°F)	PUMP EFF (%)	IMPELLER DIAMETER (INCHES)	BHP	MOTOR DATA				REMARKS
												HP	RPM	VOLTS	PHASE	
PHWP-1	TACO KV4007	IL	MECHANICAL ROOM	BUILDING HEATING SYSTEM	W	240	50	180	74	7.2	4.1	5.0	1760	460	3	ALL
PHWP-2	TACO KV4007	IL	MECHANICAL ROOM	BUILDING HEATING SYSTEM	W	240	50	180	74	7.2	4.1	5.0	1760	460	3	ALL

TYPE:
ES = END SUCTION
CC = CLOSE COUPLED
HSC = HORIZONTAL SPLIT CASE
IL = IN-LINE
VSC = VERTICAL SPLIT CASE

MEDIA:
EG = 30% ETHYLENE GLYCOL/WATER SOLUTION
W = WATER
PPG = 30% PROPYLENE GLYCOL/WATER SOLUTION

REMARKS:
1. VERTICAL CLOSE COUPLED.
2. ANSI CLASS 125 FLANGE.
3. PREMIUM EFFICIENCY MOTOR.
4. CAST IRON HOUSING.
5. BRONZE IMPELLER.
6. CARBON STEEL SHAFT.
7. BRONZE SHAFT SLEEVE.
8. CERAMIC /EPT MECHANICAL SEAL.
9. COPPER & BRASS SEAL FLUSH LINE.
10. 4"x4" SUCTION DIFFUSER WITH DUCTILE IRON BODY, COVER & VANES & 304 STAINLESS STEEL PERMANENT STRAINER

WATER TREATMENT PROCESS

STEPS TO CLEAN AND TREAT AN EXISTING HYDRONIC SYSTEM:

1. Flush the system
   - Sentinel X400 system flush should be dosed at 1% of the system's water volume.
     - Systems older than six months should be cleaned and flushed with X400
   - Sentinel X400 system restorer should be circulated, preferably at normal operating temperature, with all valves open and the pump turned to the maximum allowable system flow for a minimum period of 2 hours or until satisfactory performance is restored.
     - Where systems are badly fouled, a longer period of circulation is recommended, up to four weeks. This product will not clear a completely blocked pipe.
2. Add Sentinel X100 inhibitor
   - Systems should be dosed at 1% of its total water volume.
   - Feeding - If the system is empty, add to any convenient point before filling. If full, use a dosing vessel to inject via the filling loop or other access point.

INSTALLING WATER TREATMENT IN A NEW HYDRONIC SYSTEM:

1. Flush the system
   - Sentinel X300 system flush should be dosed at 1% of the system's water volume.
   - The water should be circulated at normal operating temperature for between 1-2 hours with a maximum of 24 hours.
     - If it is not possible to heat the system water, extend the circulation time to a minimum of 24 hours but no longer than one week.
   - X300 actually passivates the metal surfaces in the system, which prevents copper deposits from forming. This is a common cause of pinhole corrosion.
2. Add Sentinel X100 inhibitor
   - Systems should be dosed at 1% of its total water volume.
   - Feeding - If the system is empty, add to any convenient point before filling. If full, use a dosing vessel to inject via the filling loop or other access point.

X300 is a neutral formulation so it is safe for all system metals.

MECHANICAL GENERAL DEMOLITION NOTES

1. PRIOR TO SUBMITTING BID, VISIT SITE & IDENTIFY EXISTING CONDITIONS & DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ANY ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY BY EXPERIENCED OVERSEERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
2. REMOVE & DISPOSE OF MECHANICAL EQUIPMENT, DUCTWORK, & PIPING TO EXTENT INDICATED. REMOVAL SHALL BE COMPLETE INCLUDING HANGERS, BRACKETS, VALVES FITTINGS, & APPURTENANCES UNLESS OTHERWISE INDICATED.
3. DUCTWORK DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.
4. THESE PLANS ARE DIAGRAMMATIC & NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF MECHANICAL DEMOLITION WORK. ADDITIONAL DEMOLITION WORK NOT SHOWN SHOULD BE ANTICIPATED.

MECHANICAL GENERAL NOTES

1. PRIOR TO SUBMITTING BID, VISIT SITE & IDENTIFY EXISTING CONDITIONS & DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ANY ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY BY EXPERIENCED OVERSEERS. INCLUDE IN THE BID ALL NEW WORK REQUIRED.
2. BOILER BREECHING SHALL BE MOUNTED AS HIGH AS POSSIBLE, EXCEPT THAT BREECHING HEIGHT SHALL BE ADJUSTED AS NECESSARY FOR PROPER COORDINATION WITH EXISTING CONDITIONS.
3. CONTRACTOR SHALL COORDINATE WITH THE OWNER & SCHEDULE ANY INTERRUPTIONS OF THE EXISTING MECHANICAL SYSTEMS SYSTEM SERVICE 48 HOURS IN ADVANCE
4. DUCTWORK DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.
5. THESE PLANS ARE DIAGRAMMATIC & NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF MECHANICAL NEW WORK. ADDITIONAL NEW & MODIFICATION TO EXISTING WORK NOT SHOWN SHOULD BE ANTICIPATED.

TEMPERATURE CONTROL LEGEND

SYMBOLS	DESCRIPTION
A	AQUASTAT
T	TEMPERATURE SENSOR
T	THERMOSTAT
H	RELATIVE HUMIDITY SENSOR
C	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
CSR	CURRENT SENSING RELAY
ES	EMERGENCY SWITCH
VFD	VARIABLE FREQUENCY DRIVE
DP	DIFFERENTIAL PRESSURE

HVAC DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	REMOVE EXISTING DUCTWORK/EQUIPMENT
PIPE	REMOVE EXISTING PIPING/EQUIPMENT
ETR	EXISTING TO REMAIN
RE	REMOVE EXISTING
RL	RELOCATE EXISTING
NL	NEW LOCATION

HVAC DUCTWORK LEGEND

SYMBOL	DESCRIPTION
	ACOUSTICAL LINED DUCTWORK (DOUBLE LINED)
	ACOUSTICAL LINED DUCTWORK (SINGLE LINED)
	EXISTING DUCTWORK
	NEW DUCTWORK (DOUBLE LINE)
	NEW DUCTWORK (SINGLE LINE)
	RETURN DUCT DROP (DOUBLE LINE)
	RETURN DUCT DROP (SINGLE LINE)
	RETURN DUCT RISE (DOUBLE LINE)
	RETURN DUCT RISE (SINGLE LINE)
	SUPPLY DUCT DROP (DOUBLE LINE)
	SUPPLY DUCT DROP (SINGLE LINE)
	SUPPLY DUCT RISE (DOUBLE LINE)
	SUPPLY DUCT RISE (SINGLE LINE)
MD	MOTORIZED DAMPER
	RETURN/EXHAUST/OUTSIDE AIR ARROW
	SUPPLY ARROW
UD	UNDERCUT DOOR
	ROOF MOUNTED EQUIPMENT
	POINT OF CONNECTION TO EXISTING
	POINT OF DEMOLITION OF EXISTING

PIPING LEGEND

SYMBOL	DESCRIPTION
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CW	DOMESTIC COLD WATER PIPE
CD	CONDENSATE DRAIN PIPE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
DTWS	DUAL TEMPERATURE WATER SUPPLY
DTWR	DUAL TEMPERATURE WATER RETURN
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
NG	NATURAL GAS PIPE
VTR	VENT TO ROOF
	GATE VALVE
	BALL VALVE
	BALANCE VALVE
	BUTTERFLY VALVE
	NON-SLAM CHECK VALVE
	UNION
	STRAINER WITH VALVED BLOWDOWN
	PRESSURE REGULATING GAS VALVE
	BOILER PRESSURE RELIEF VALVE
	PIPE RISE
	PIPE MOUNTED WATER THERMOMETER (IN THERMAL WELL)
T	PIPE MOUNTED DIGITAL WATER TEMP. SENSOR (IN THERMAL WELL)

DECARLO & DOLL, INC.
DeCarlo & Doll, Inc.
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CES
Consulting Engineering Services, Inc.
811 Middle Street
Middletown, CT 06457
Tel. (860) 632-1682
Fax. (860) 632-1768
CES #2018168.00

REVISIONS		
NO.	DATE	DESCRIPTION

PRENDERGAST SCHOOL HOT WATER BOILER REPLACEMENT

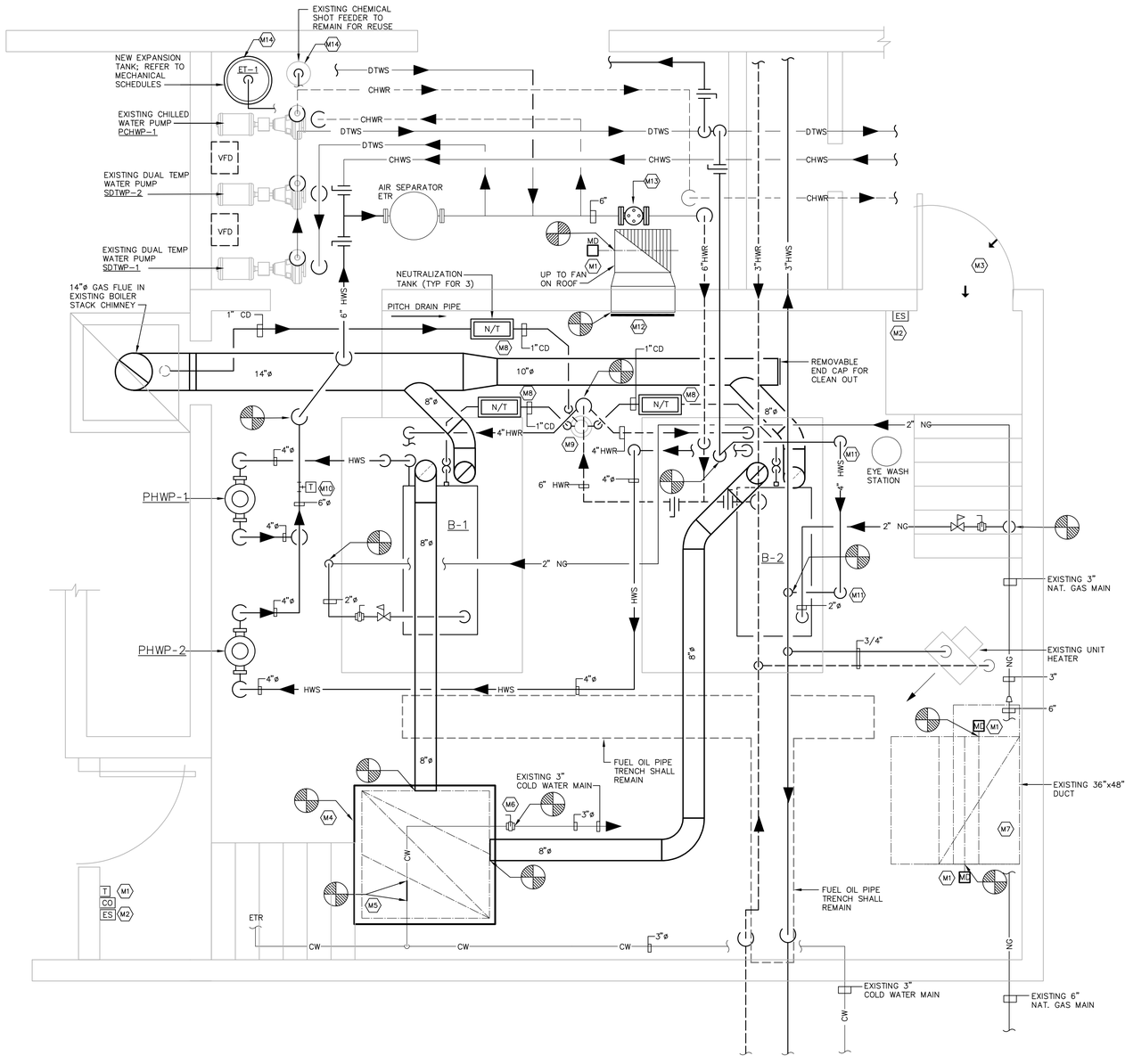
ANSONIA, CT

MECHANICAL LEGENDS & SCHEDULES

DATE: 4/1/2020
PROJECT NO: 2018168.00
DRAWN: ADC
CHECKED: OHA
ISSUED FOR:
REVISIONS:

SHEET NO.

M-000



1 **MECHANICAL BOILER ROOM NEW WORK PLAN**
SCALE: 1/2" = 1'- 0"

MECHANICAL NEW WORK KEY NOTES

M1 PROVIDE NEW JOHNSON CONTROLS DDC THERMOSTAT TO OPEN/CLOSE THE EXISTING MOTORIZED DAMPERS & START/STOP THE EXISTING EXHAUST FAN TO MAINTAIN BOILER ROOM TEMPERATURE AT 80Y (ADJUSTABLE). PROVIDE CONTROL WIRING AND SPRING RETURN ACTUATORS.

M2 EMERGENCY SWITCH BY ELECTRICAL CONTRACTOR; EXISTING BMS SHALL GENERATE AN ALARM UPON ACTIVATION OF THE EMERGENCY SWITCH.

M3 BRING HOT WATER BOILERS THROUGH ADJACENT CORRIDOR & ENTER BOILER ROOM THROUGH EXISTING DOOR; BOILER SHALL BE BROUGHT DOWN THE BOILER ROOM STAIR & PLACE ON NEW 7"HT. REINFORCED CONCRETE PADS; REMOVE & REINSTALL EXISTING STAIR STEEL RAILING AS TO ACCOMMODATE NEW BOILER ENTRY.

M4 CLEAN EXISTING 48"x48" COMBUSTION AIR INTAKE LOUVERS, BIRD SCREENS & DUCT; EXTEND DUCT TO 3" ABOVE THE EXISTING COLD WATER PIPING; CAP ENTIRE PLENUM & INSULATE WITH 2" RIDGED BOARD INSULATION; PROVIDE NEW 8"Ø COMBUSTION AIR INTAKE DUCTS TO CONNECT TO BOILERS; REFER TO BOILER MFR'S INSTRUCTIONS.

M5 PROVIDE NEW SECTION OF 3"CW PIPING AS SHOWN.

M6 PROVIDE NEW 3" ISOLATION VALVE ON EXISTING 3" CW PIPE; FIELD VERIFY EXACT SIZE.

M7 CLEAN EXISTING INTAKE AIR LOUVERS, BIRD SCREENS & DUCTWORK. PROVIDE 1"x1"x1/2" GALVANIZED MESH SCREEN IN REMOVABLE TRAY AT BOTTOM OF THE EXISTING 36"x48" DUCT.

M8 PROVIDE CONDENSATE NEUTRALIZER TANK & CONDENSATE PIPING; INSTALL NEUTRALIZER TANK & CONDENSATE PIPING IN STRICT ACCORDANCE WITH TANK MANUFACTURE'S RECOMMENDATIONS.

M9 CLEAN THE EXISTING FLOOR DRAIN & ASSOCIATED DRAIN PIPE. INSPECT DRAIN FOR PROPER OPERATION.

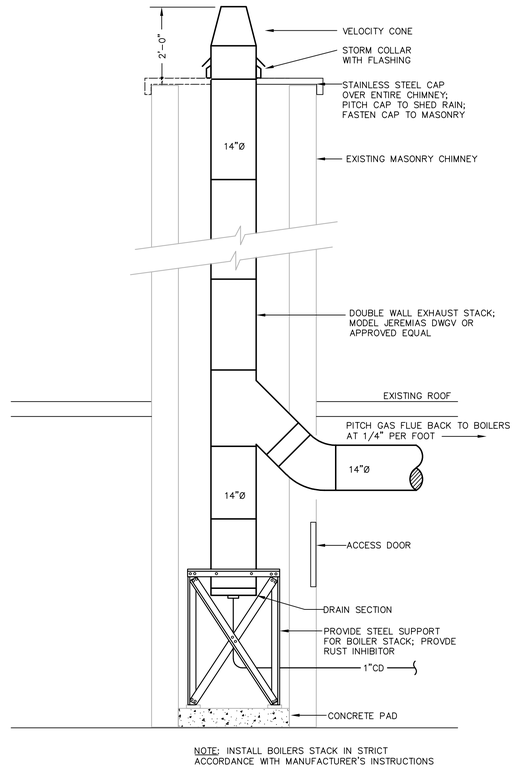
M10 NEW WATER TEMPERATURE SENSOR IN PIPE THERMO-WELL FURNISHED BY BOILER MANUFACTURER AND INSTALLED BY ATC CONTRACTOR.

M11 PROVIDE 4"HWS PIPING. COORDINATE PIPING WITH EXISTING CONDITIONS AND PROVIDE FINAL CONNECTIONS TO EXISTING PIPING.

M12 PROVIDE 1"x1"x1/2" GALVANIZED MESH SCREEN IN REMOVABLE TRAY; FIELD VERIFY EXACT SIZE.

M13 PROVIDE IN-LINE 6" HEATING HOT WATER MAGNETIC FILTER; BOILERMAG XT MODEL NO.BMXT/6 PART. NO.BMXT300HF OR APPROVED EQUAL FOR A MAXIMUM FLOW OF 440 GPM.

M14 PROVIDE NEW PIPING & ALL REQUIRED PIPE FITTINGS FOR NEW FLOOR MOUNTED EXPANSION TANK & CHEMICAL SHOT FEEDER; CONNECT INTO HEATING WATER SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS.



NOTE: INSTALL BOILERS STACK IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

2 **BOILER FLUE & STACK SECTION**
SCALE: N.T.S.

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CES #2018168.00

REVISIONS		
NO.	DATE	DESCRIPTION

PRENDERGAST SCHOOL HOT WATER BOILER REPLACEMENT

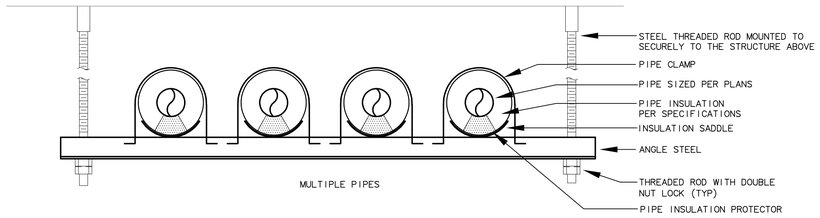
ANSONIA, CT

MECHANICAL BOILER ROOM NEW WORK PLAN

DATE:	4/1/2020
PROJECT NO:	2018168.00
DRAWN:	ADC
CHECKED:	OHA
ISSUED FOR:	
REVISIONS:	

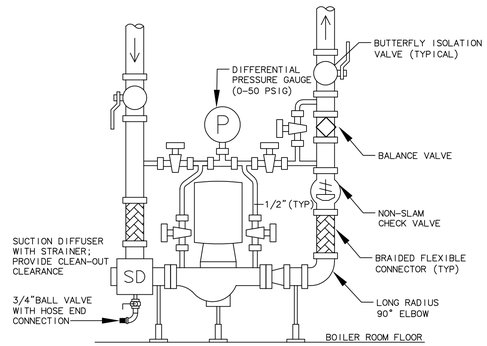
SHEET NO.

M-100



NOTE: PIPING SHALL NOT BE SUPPORTED FROM EXISTING ROOF DECK; PROVIDE ADDITIONAL STEEL/UNISTRUT FOR PIPE SUPPORT

1 TYPICAL PIPE SUPPORT DETAILS
N.T.S.

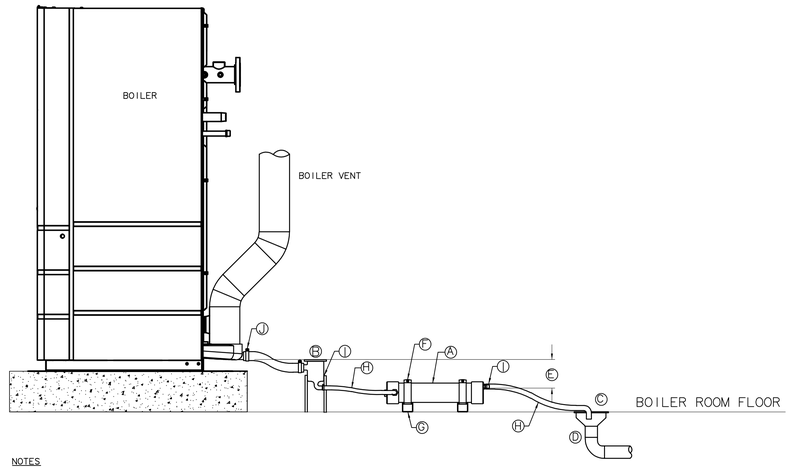


NOTE: INSTALL HEATING HOT WATER PUMP 4'-0" ABOVE BOILER ROOM FLOOR

2 VERTICAL IN-LINE PUMP DETAIL
N.T.S.

HEATING HOT WATER PIPING DIAGRAM KEY NOTES

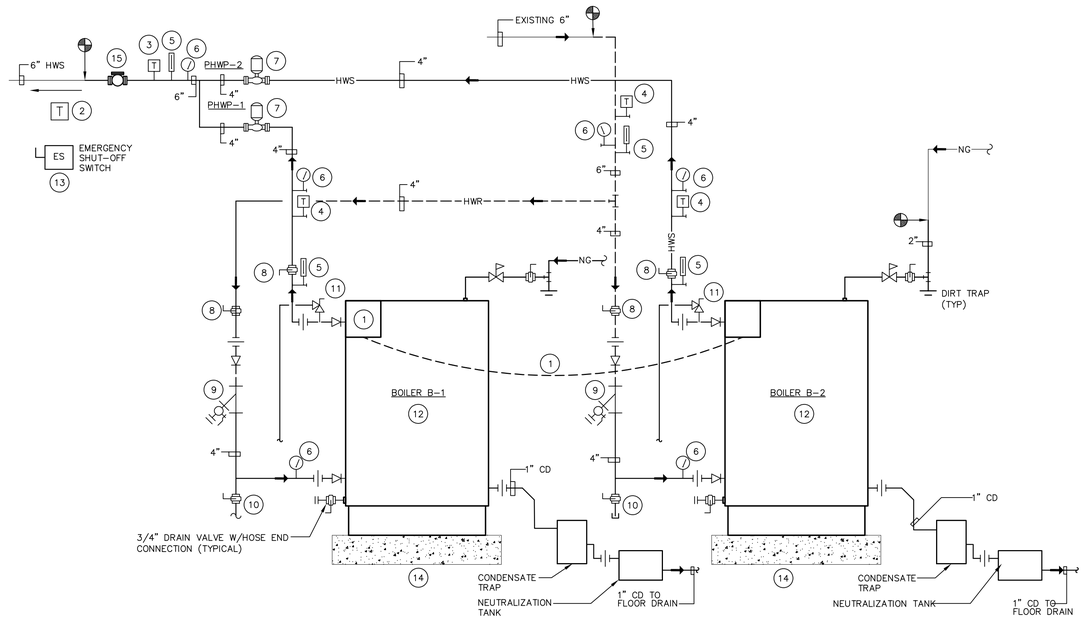
1. BOILER CONTROL PANEL PROVIDED BY BOILER MANUFACTURER; BACNET INTERFACE TO THE EXISTING BUILDING MANAGEMENT SYSTEM & CONTROL WIRING BY ATC CONTRACTOR; INTERLOCKING CONTROL WIRING BETWEEN BOILERS, CONTROL PANELS BY ATC CONTRACTOR.
2. OUTSIDE AIR TEMPERATURE SENSOR FURNISHED BY BOILER MANUFACTURER & INSTALLED BY ATC CONTRACTOR ON NORTH WALL IN ULTRA-VIOLET SENSOR ENCLOSURE; 7'-0" ABOVE FINISHED GRADE.
3. HOT WATER SUPPLY TEMPERATURE SENSOR IN PIPE THERMO-WELL SHALL BE FURNISHED BY BOILER MANUFACTURER & INSTALLED BY ATC CONTRACTOR. CONTROL WIRING BY ATC CONTRACTOR;PROVIDE THERMO-WELL FITTINGS.
4. HOT WATER TEMPERATURE SENSORS SHALL BE PROVIDED BY ATC CONTRACTOR; PIPE THERMO-WELL FITTINGS FURNISHED BY ATC CONTRACTOR & INSTALLED BY MECHANICAL CONTRACTOR.
5. THERMOMETER (0° F – 200° F RANGE) IN PIPE THERMO-WELL BY MECHANICAL CONTRACTOR (TYPICAL)
6. HEATING HOT WATER PRESSURE GAUGE (0 – 50 PSIG RANGE) BY MECHANICAL CONTRACTOR.
7. HEATING HOT WATER PUMP BY MECHANICAL CONTRACTOR. REFER TO "VERTICAL IN-LINE PUMP DETAIL" FOR ADDITIONAL REQUIRED VALVES, FITTINGS & ACCESSORIES.
8. ISOLATION & SHUT-OFF BUTTERFLY VALVE BY MECHANICAL CONTRACTOR.
9. WYE STRAINER WITH 3/4" BALL VALVE WITH HOSE END CONNECTION BY MECHANICAL CONTRACTOR.
10. 3/4" BALL VALVE WITH HOSE END CONNECTION BY MECHANICAL CONTRACTOR.
11. PRESSURE RELIEF VALVE (SET FOR 50 PSIG) BY MECHANICAL CONTRACTOR. TERMINATE PIPING FROM PRESSURE RELIEF VALVE 18" ABOVE FINISHED FLOOR.
12. GAS FIRED HEATING HOT WATER BOILER BY MECHANICAL CONTRACTOR.
13. EMERGENCY SHUT-OFF SWITCH & WIRING BY ELECTRICAL CONTRACTOR.(TYPICAL FOR 2)
14. PLACE NEW BOILER(S) ON NEW 7" Ht. REINFORCED CONCRETE HOUSEKEEPING COORDINATE EXACT SIZE IN FIELD.
15. PROVIDE IN-LINE 6" HEATING HOT WATER MAGNETIC FILTER; BOILERMAG XT MODEL NO.BMXT/6 PART. NO.BMXT300HF OR APPROVED EQUAL FOR A MAXIMUM FLOW OF 440 GPM.



NOTES

A. CONDENSATE NEUTRALIZING TUBE
B. FACTORY SUPPLIED CONDENSATE TRAP. PROVIDE FIELD FABRICATED SUPPORTS AS REQUIRED.
C. CONDENSATE DRAIN TERMINATION AT FLOOR DRAIN. SECURE IN PLACE AS REQUIRED.
D. FLOOR DRAIN.
E. BOTTOM OF BOILER CONDENSATE OUTLET MUST BE ABOVE THE THE BOTTOM OF THE CONDENSATE OUTLET.
F. UNISTRUT CLAMPS, SECURE TUBE IN POSITION AND SECURELY. CONDENSATE OUTLET MUST BE ORIENTED UP, WITH CONDENSATE INLET TO THE SIDE.
G. C-CHANNEL BASE, BOLT TO FLOOR OR MOUNTING PAD.
H. PLASTIC TUBING OR PVC PIPE.
I. USE HOSE CLAMPS AT ALL CONNECTIONS WHEN USING FACTORY SUPPLIED RUBBER HOSE.
J. PROVIDE 316 STAINLESS STEEL TUBING FROM BOILER/FLUE OUTLET TO CONDENSATE TRAP.

3 HEATING HOT WATER BOILER & FLUE STACK CONDENSATE PIPING DETAIL
N.T.S.



4 HEATING HOT WATER BOILER PIPING DIAGRAM
N.T.S.

DECARLO & DOLL, INC.
DeCarlo & Doll, Inc.
89 Colony Street
Meriden, Connecticut 06451

CES
Consulting Engineering Services, Inc.
811 Middle Street
Middletown, CT 06457
Tel. (860) 632-1682
Fax. (860) 632-1768
CES #2018168.00

REVISIONS		
NO.	DATE	DESCRIPTION

PRENDERGAST SCHOOL HOT WATER BOILER REPLACEMENT

ANSONIA, CT

MECHANICAL DETAILS & DIAGRAMS

DATE:	4/1/2020
PROJECT NO:	2018168.00
DRAWN:	ADC
CHECKED:	OHA
ISSUED FOR:	
REVISIONS:	

SHEET NO.

M-200