

NATURAL GAS CONDENSING BOILER SCHEDULE

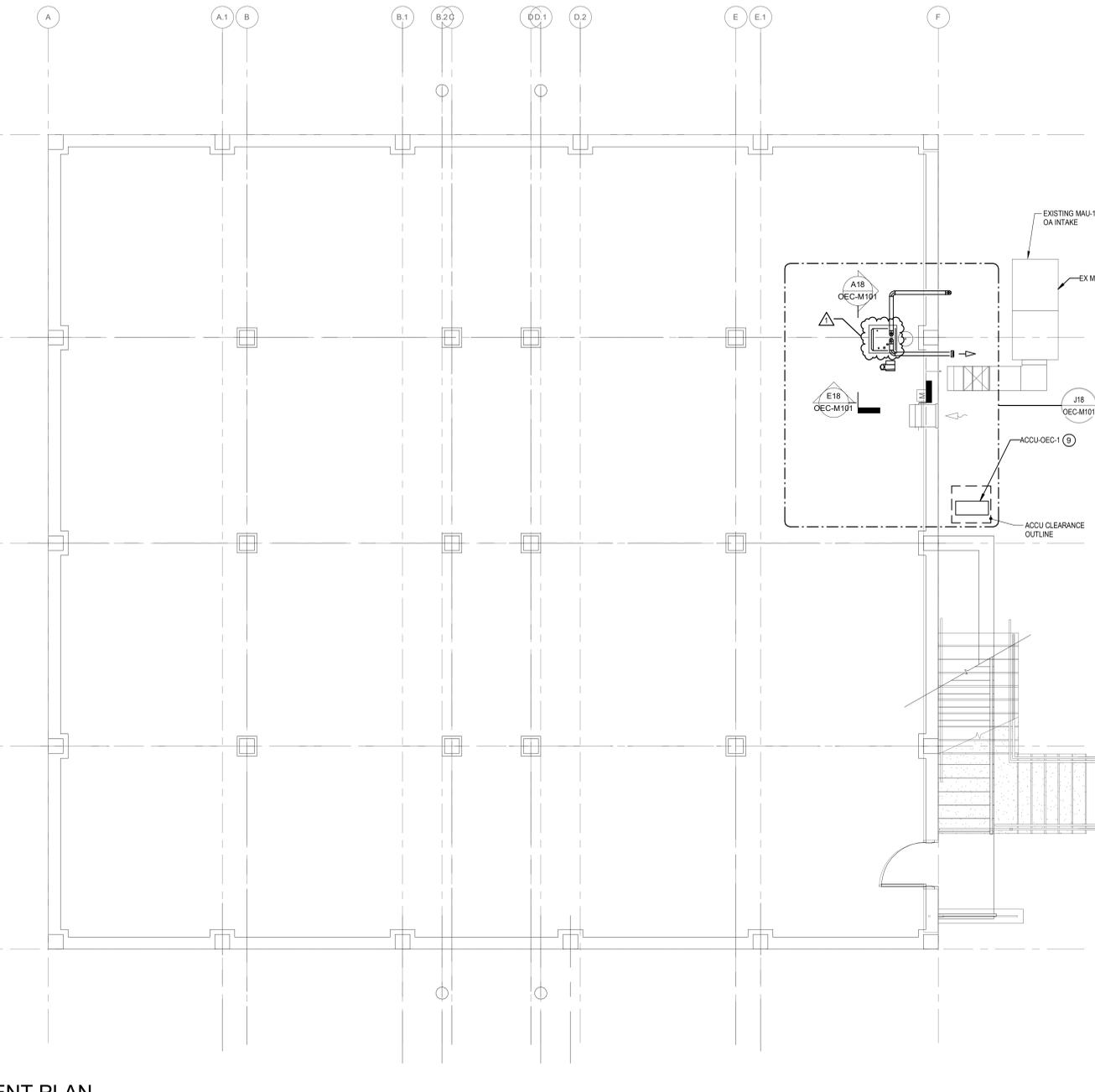
1. PROVIDE BOILER NEUTRALIZER AND PUMP THAT FITS INSIDE AND PLUGS INTO BOILER CABINET. CONDENSATE PUMP HARTELL MODEL KL-1DG OR EQUAL, MAXIMUM 2 AMPS @ 115 VOLT. PROVIDE BOILER WITH FULL MODULATION OF 10:1 TURNDOWN.
 2. AHRF CERTIFIED AFUE RATING TO BE 95.3%.
 3. PROVIDE WITH INTEGRAL BOILER OPERATION CONTROLLER AND LCD PANEL. CAPABLE OF OUTDOOR RESET SCHEDULE AND CIRCULATOR PUMP OPERATION. PROVIDE LOW VOLTAGE WIRING BETWEEN BOILER CONTROL BOARD AND CIRCULATOR PUMP TO ENABLE PUMP ON CALL FOR BOILER FIRING. PROVIDE WIRING BETWEEN OUTDOOR AIR SENSOR AND BOILER OPERATION CONTROLLER AS REQUIRED FOR OUTSIDE RESET OPERATION. FIELD LOCATE OUTDOOR AIR SENSOR PER MANUFACTURER'S RECOMMENDATIONS.

TAG	SERVICE	HP	GROSS INPUT (MBH)	AHRF CERTIFIED HEATING CAPACITY (MBH)	NET AHRF RATING (MBH)	VENT DIAMETER	ASME RELIEF VALVE SETTING	GPM	EWT	LWT	AFUE EFFICIENCY	OPERATING WEIGHT	ELECTRICAL DATA				BASIS OF DESIGN MFG. AND MODEL	REMARKS
													VOLTS	PH	AMPS	MOP		
B-OEC-1	BUILDING HEAT	5.4	199	182	158	3"	30 psi	15.8 GPM	180 °F	180 °F	95.3%	130 lb	120	1	4	15	LAARS FTH199	1,2,3

PUMP SCHEDULE

Mark	TYPE	FLOW	HEAD	RPM	IMPELLER DIAMETER	SUCTION X DISCHARGE (IN. X IN.)	FLUID TEMP	FLUID TYPE	WIRE TO WATER EFFICIENCY	ELECTRICAL FLA	MAXIMUM ELECTRICAL WATTS	ELECTRICAL DATA				BASIS OF DESIGN MFG. AND MODEL	REMARKS	
												BRAKE HP	NOL HP	HP	PH			
P-OEC-1	HIGH EFFICIENCY LARGE WET ROTOR CIRCULATOR WITH EC MOTOR	15.8 GPM	30 ft	3,588		1.5"x1.5"	180 °F	WATER	93.3%	2.0 A	500 W			1/2	208	1	BELL&GOSSETT ecooro XL 55-45	

- #### KEYED NOTES:
- ROUTE 1-1/2" HWR FROM EXISTING HWR PIPING AT CONNECTION POINT SHOWN TO TOP HEATING WATER INLET CONNECTION ON BOILER.
 - ROUTE 1-1/2" HWS FROM EXISTING HWS PIPING AT CONNECTION POINT SHOWN TO TOP HEATING WATER OUTLET CONNECTION ON BOILER. PROVIDE INLINE CIRCULATOR PUMP WITHIN HWS RISER AS SHOWN.
 - CONNECT TO EXISTING NATURAL GAS PIPING AT LOCATION SHOWN AND ROUTE 1" GAS PIPING TO TOP GAS INLET CONNECTION ON BOILER.
 - TERMINATE 3" ROUND BOILER VENT WITH VENT SCREEN APPROXIMATELY 36" ABOVE GRADE AND 12" FROM EXTERIOR WALL PENETRATION.
 - TERMINATE 3" ROUND BOILER INTAKE AIR DUCT WITH ELBOW FACING DOWN AND INTAKE SCREEN.
 - ROUTE CONDENSATE FROM BOILER CONDENSATE PUMP OUTLET OUT THROUGH EXTERIOR WALL AND TERMINATE OPEN-ENDED FACING DOWN TOWARDS GRADE WITH MITER CUT OUTLET.
 - REFER TO FIRST FLOOR PLAN FOR CONTINUATION OF REFRIGERANT LIQUID AND SUCTION PIPE RISERS.
 - MOUNT BOILER B-OEC-1 ON 4" HIGH CONCRETE HOUSEKEEPING PAD SIZED 4" WIDER THEN BOILER IN ALL DIRECTIONS.
 - MOUNT ACCU SUPPORT STAND ON 4" HIGH EXTERIOR CONCRETE HOUSEKEEPING PAD.



J18 ENLARGED BOILER PLAN
1/2" = 1'-0"

E18 BOILER SECTION VIEW - LOOKING SOUTH
1/2" = 1'-0"

A18 BOILER SECTION VIEW - LOOKING WEST
1/2" = 1'-0"

A11 BASEMENT PLAN
1/4" = 1'-0"

ARCHITECT
ksqdesign
NEW YORK OKLAHOMA
KSQ Design
215 W 40th Street 15th Floor
New York, NY 10018
646.435.0660 office
www.ksqdesign.com

Owner
Nanuet Union Free School District
101 Church Street
Nanuet, NY 10954
845.627.9880
www.nanuetusd.org

Structural Engineer
Clapper Structural Engineering
160 Partition Street
Saugerties, NY 12477
845.943.9801
www.clappersstructural.com

MEP Engineer
Sage Engineering Associates, LLP
9 Columbia Circle
Albany, NY 12203
518.453.6091
www.sagegrp.com

Environmental Engineer
Quest Environmental Solutions
1376 Route 9
Wappingers Falls, NY 12590
845.298.6251
www.qualityenv.com

Construction Manager
Jacobs
One Penn Plaza
24th Floor, Suite 2400
New York, NY 10119
646.906.6550
www.jacobs.com



NUFSD BOND PROJECT PHASE 5 - OEC

- SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
- SED#50-01-08-03-7-001-002 (Maintenance)
- SED#50-01-08-03-7-012-004 (OEC)
- SED#50-01-08-03-0-001-028 (MILLER ES)
- SED#50-01-08-03-0-004-022 (BARR MS)

- Highview Elementary School**
24 Highview Ave
Nanuet, NY 10954
- OEC Building**
135 Convent Rd
Nanuet, NY 10954
- Maintenance Building**
103 Church St.
Nanuet, NY 10954
- Miller Elementary School**
50 Blauvelt Rd Unit 1
Nanuet, NY 10954
- A MacArthur Barr Middle School**
143 Church St
Nanuet, NY 10954

KEY PLAN

REVISIONS

No.	Description	Date
1	BID ADDENDUM #4	02/05/25

ISSUED: BID SET
DATE: 06/21/2024
SCALE: As indicated
SHEET NAME: BASEMENT PLAN

SHEET NUMBER:
OEC-M101

ISSUE FOR BID SET