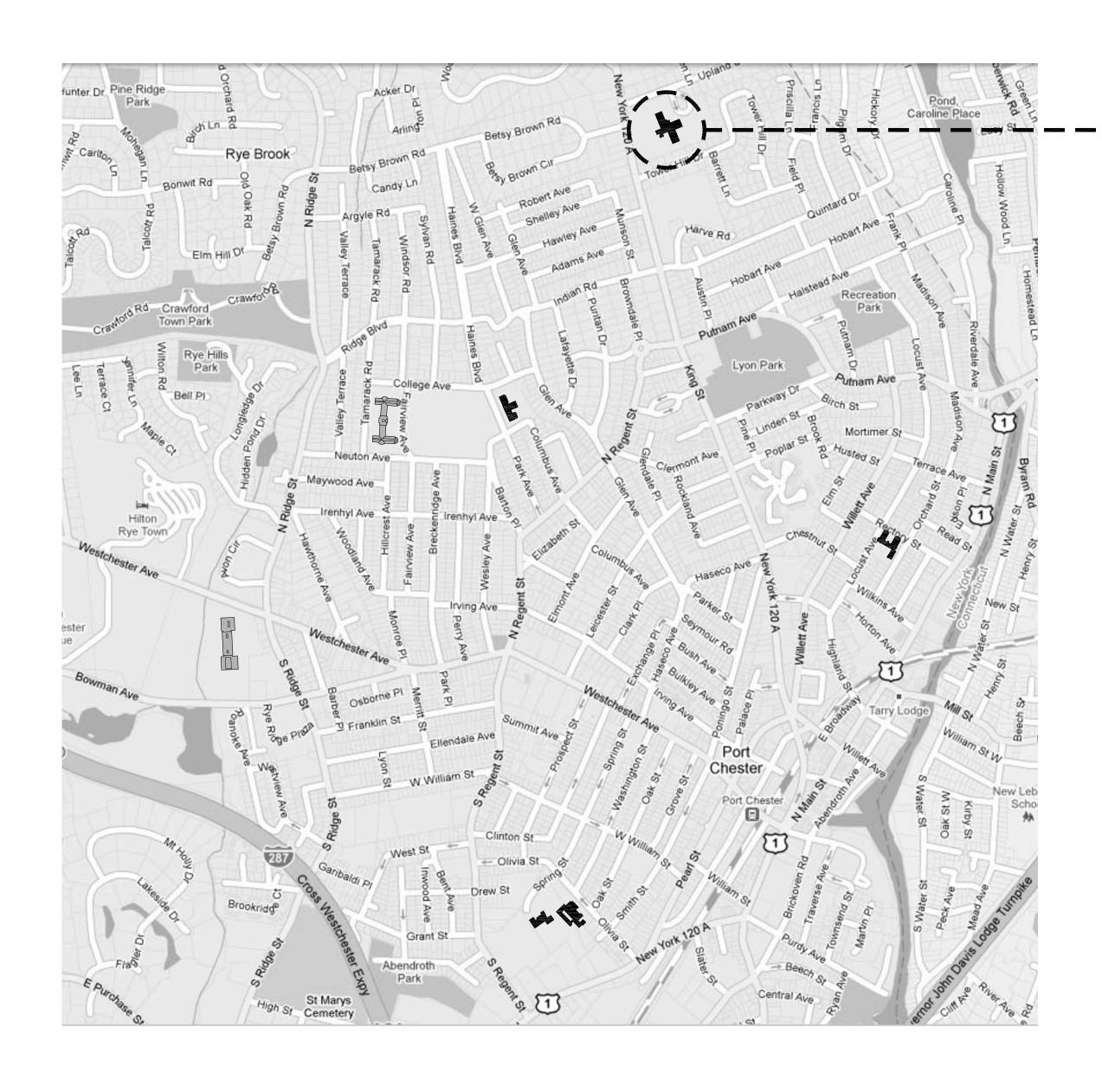
PORT CHESTER - RYE UNION FREE SCHOOL DISTRICT BOILER REPLACEMENT

KING STREET ELEMENTARY SCHOOL

697 KING STREET, PORT CHESTER, NY 10573

SED PROJECT NO. 66-19-04-03-0-007-015







ARCHITECTS PLANNERS

TEL 914.592.4444 FAX 914.592.1717

WWW.FULLERDANGELO.COM

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CONSULTANTS:

MECHANICAL ENGINEERING

BARILE GALLAGHER & **ASSOCIATES** 39 MARBLE AVENUE

PLEASANTVILLE, NY 10570

TEL: (914) 328.6060

FAX: (914) 328.9304

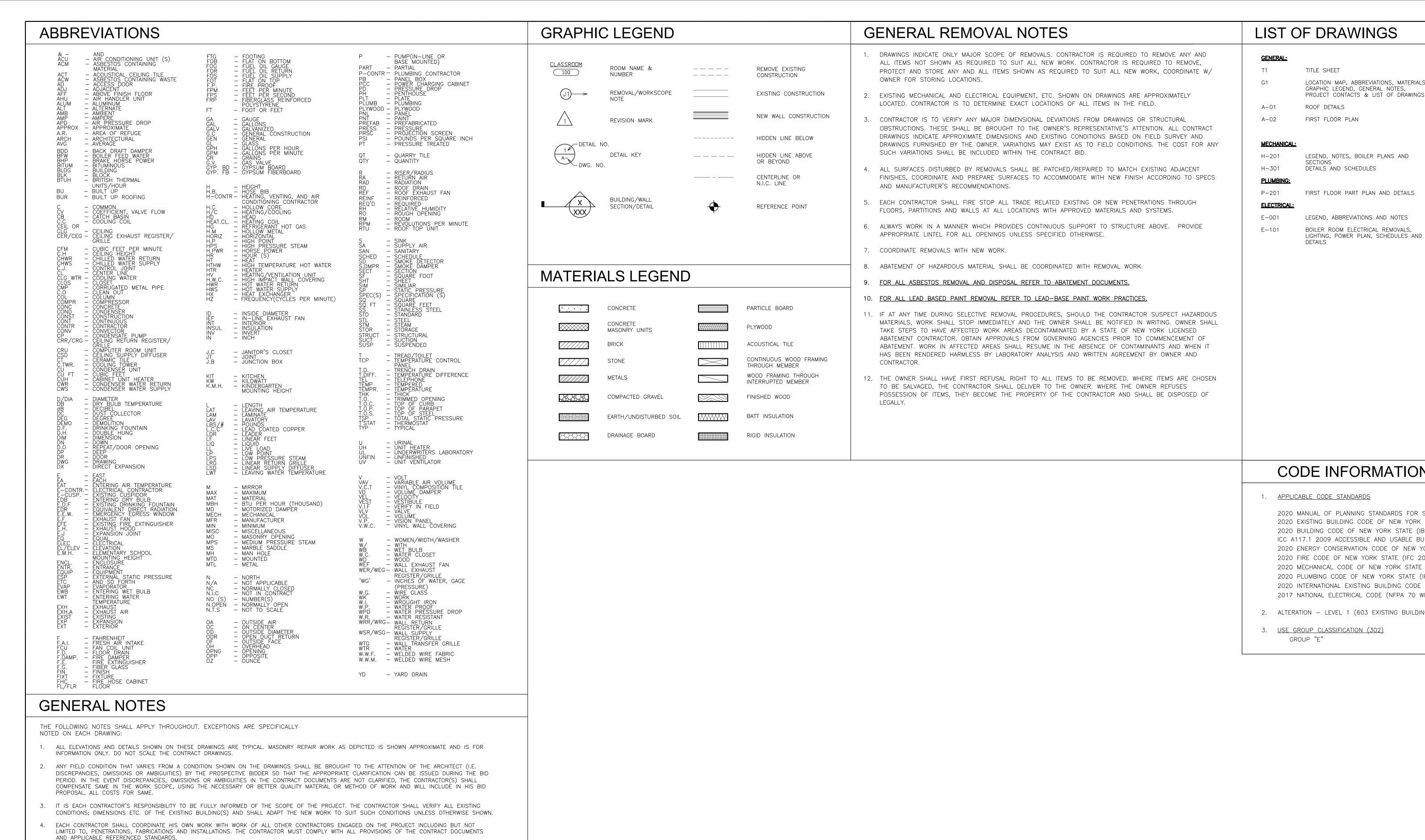
www.damianobarile.com

ENVIRONMENTAL

TOTAL QUALITY ENVIRONMENTAL INC,.

116 BAY 19th STREET BROOKLYN, NY 11214 TEL: (718) 873.1411 www.totalqualityenvironmental.com

BID
ISSUED TO
DRAWING NO.
T-1
FILE NO. 22468.00



LOCATION MAP. ABBREVIATIONS, MATERIALS GRAPHIC LEGEND, GENERAL NOTES, PROJECT CONTACTS & LIST OF DRAWINGS.

ROOF DETAILS FIRST FLOOR PLAN

LEGEND, NOTES, BOILER PLANS AND DETAILS AND SCHEDULES

FIRST FLOOR PART PLAN AND DETAILS

LEGEND, ABBREVIATIONS AND NOTES BOILER ROOM ELECTRICAL REMOVALS,

CODE INFORMATION FOR PROPOSED WORK

1. <u>APPLICABLE CODE STANDARDS</u>

2020 MANUAL OF PLANNING STANDARDS FOR SCHOOLS 2020 EXISTING BUILDING CODE OF NEW YORK STATE 2020 BUILDING CODE OF NEW YORK STATE (IBC 2018 WITH AMENDMENTS) ICC A117.1 2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE (IECC 2018 WITH AMENDMENTS) 2020 FIRE CODE OF NEW YORK STATE (IFC 2018 WITH AMENDMENTS) 2020 MECHANICAL CODE OF NEW YORK STATE (IMC 2018 WITH AMENDMENTS) 2020 PLUMBING CODE OF NEW YORK STATE (IPC 2018 WITH AMENDMENTS)

2020 INTERNATIONAL EXISTING BUILDING CODE OF NEW YORK STATE (IEBC 2018 WITH AMENDMENTS) 2017 NATIONAL ELECTRICAL CODE (NFPA 70 WITHOUT AMENDMENTS)

2. ALTERATION - LEVEL 1 (603 EXISTING BUILDING CODE)

3. <u>USE GROUP CLASSIFICATION (302)</u>

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MAIN THE PRODUCT A
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S.E.D. CONTROL NUMBER: 66-19-04-03-0-007-015

01-20-2023 DATE ISSUED TO SHEET SIZE 30"x42" **G**-' DRAWN BY F&D

CHECKED BY | FILE NO.

F&D 22468.00

FILE: I:\22468.00 Port Chester King Street Boilers\DRAWINGS\CURRENT\1-F&D\22468.00-G-1 A-01.dwg

OTHERWISE SPECIFIED. (SEE PARTITION TYPE DRAWING FOR MORE INFO.)

FINISHES ARE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS.

CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF.

MOVEMENT OF DEBRIS OR EQUIPMENT THROUGH OCCUPIED SPACES OF THE BUILDING.

5. INDICATED DIMENSIONS ARE TO FACE OF MASONRY, CONCRETE, FACE OF FINISH OR CENTERLINE.

7. WHERE REQUIRED, SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE ARCHITECT BEFORE ANY SHOP FABRICATION OR FIELD WORK IS

DEPARTMENT PLANNING STANDARDS. IN THE EVENT OF ANY CONFLICTS, THE MORE STRINGENT CODE OF STANDARD SHALL TAKE PRECEDENCE.

8. EACH CONTRACTOR SHALL BE FULLY INFORMED OF ALL CODES HAVING JURISDICTION OVER ALL THE WORK INCLUDING ALL APPLICABLE STATE EDUCATION

9. USE ONLY NEW AND BEST QUALITY MATERIALS AND EQUIPMENT FOR THE INTENDED PURPOSE, AND THE BEST WORKMANSHIP TO CONSTRUCT THE NEW

10. IN THE EVENT OF A CONFLICT, LARGE SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS WITHOUT OMITTING OTHER PORTIONS OF THE SMALL SCALE DRAWING IN QUESTION. SIMILARITY, NOTES SHALL TAKE PRECEDENCE OVER SCHEDULES, PIPING AND WIRING DIAGRAMS WITHOUT

11. PERFORM ALL NECESSARY DEMOLITION REQUIRED TO INSTALL NEW WORK PER THE CONTRACT DOCUMENTS AND PROVIDE PROTECTION FOR EXISTING

CONSTRUCTION ADJACENT TO THE NEW WORK. THE CONTRACTOR(S) SHALL RESTORE ALL EXISTING CONDITIONS DISTURBED BY ALL THE WORK, ALL TO

13. EACH CONTRACTOR SHALL COLLECT HIS OWN RUBBISH AND CONSTRUCTION DEBRIS EACH DAY, PLACE IT IN APPROPRIATE CONTAINERS AND DISPOSE OF

MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY. IF ANY CONSTRUCTION OPERATION IS DEEMED TO BE DISRUPTIVE BY THE SD TO THE NORMAL OPERATION OF THE SCHOOL BUILDING, THEN THE CONTRACTOR SHALL PERFORM THE WORK ON A PREMIUM TIME BASIS DURING OTHER THAN NORMAL BUSINESS HOURS. ALL COSTS ASSOCIATED WITH PREMIUM TIME WORK SHALL BE INCLUDED IN THE CONTRACTOR'S BID PROPOSAL.

14. ALL OCCUPIED PORTIONS OF SCHOOL BUILDINGS MUST CONTINUE TO OPERATE DURING NORMAL BUSINESS HOURS, AS WELL AS COMPLY WITH THE

15. ALL CONTRACTORS SHALL COMPLY WITH THE FOLLOWING MINIMUM SAFETY AND SECURITY REQUIREMENTS FOR THIS PROJECT; A) ALL MATERIALS SHALL BE STORED IN A SAFE, SECURE AND WEATHER TIGHT ENVIRONMENT; B) MAINTAIN SECURITY FENCES AROUND DEBRIS AND CONSTRUCTION WHERE

16. CONSTRUCTION AREAS WHICH UNDER THE CONTROL OF THE CONTRACTOR AND THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING. PERIODIC INSPECTIONS AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT

a) A SPECIFIC STAIRWELL AND ENTRANCE SHALL BE PROVIDED FOR CONTRACTORS USE DURING WORK HOURS. WORKERS MAY NOT USE

c) ALL OCCUPIED PARTS OF A BUILDING AFFECTED BY CONSTRUCTION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORK DAY.

17. CONSTRUCTION OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES

18. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ITS ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF—GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE SPACE CAN BE OCCUPIED. PRIOR APPROVAL OF PROTECTIVE MEASURES PLAN

19. ALL NEW WALLS, AND PARTITIONS AS NOTED SHALL BE CARRIED UP AN SECURED TIGHTLY TO ROOF DECK FLOOR DECK AND SLAB UNLESS

20. THE CONTRACTOR SHALL PROVIDE THE NECESSARY LEVELING COMPOUNDS TO EXISTING AND NEW SUBSTRATE CONCRETE SLABS SO THAT NEW FLOOR

21. ALL PIPING IN FINISHED SPACES TO BE FURRED-OUT WITH METAL STUDS @ 12" O.C. AND %" GYPSUM BOARD TYPE 'X' AND FINISHED TO

WHEN THE AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN.

b) REMOVAL OF ALL DEBRIS SHALL BE THROUGH DESIGNATED, SEPARATED AND PROTECTED AREAS OF THE BUILDING. THERE SHALL BE NO

6. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.

OMITTING OTHER WORK SHOWN OR DESCRIBED THAT ARE NOT IN QUESTION.

12. ALL WORK SHALL BE SET STRAIGHT, PLUMP AND LEVEL OR WITH INDICATED SLOPE.

MATCH THE EXISTING UNLESS INDICATED OTHERWISE.

DISPLAYED IN A VISIBLE PLACE ON THEIR PERSON.

EXPOSURE TO DUST AND CONTAMINANTS.

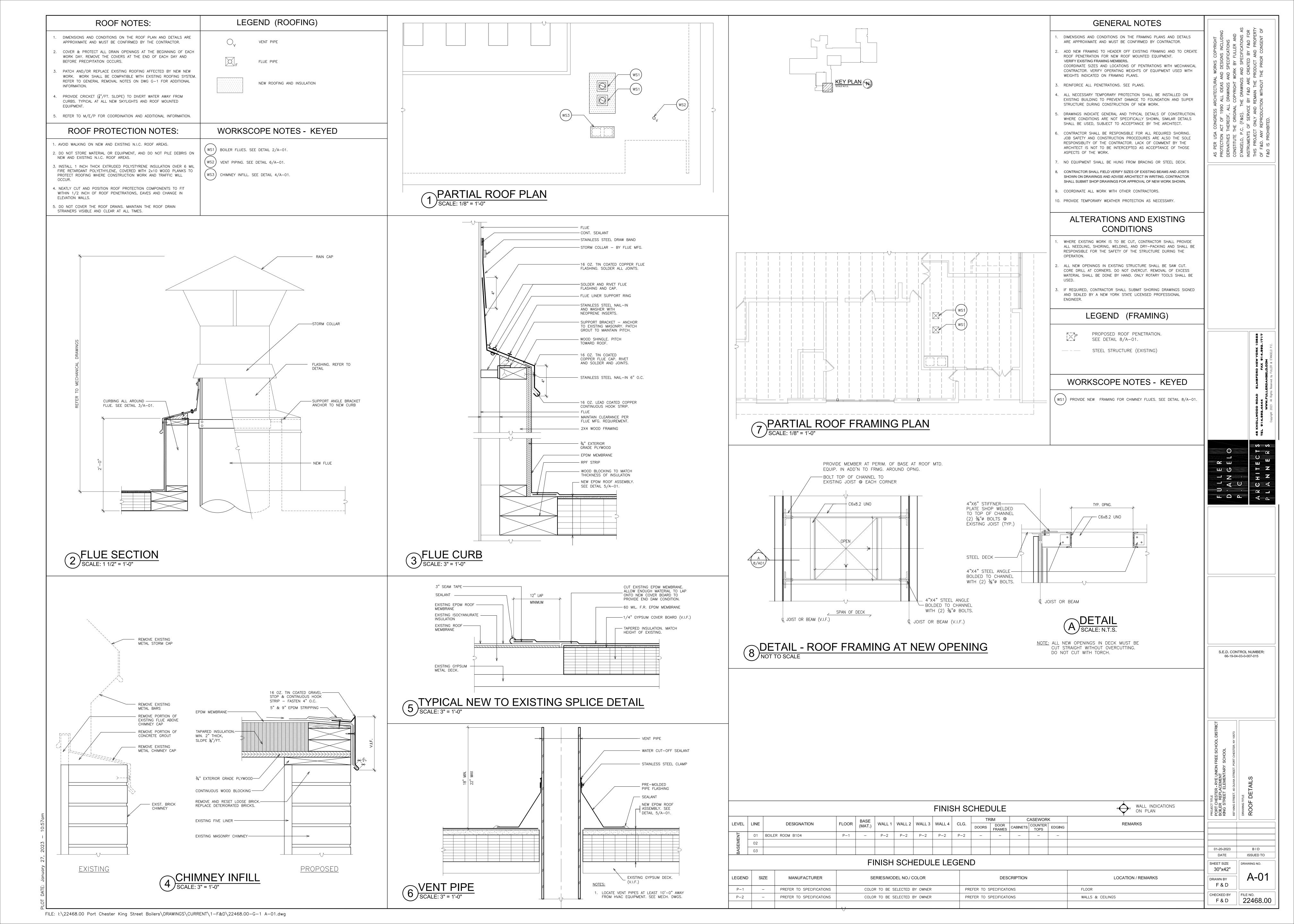
BY SD IS REQUIRED BEFORE PROCEEDING

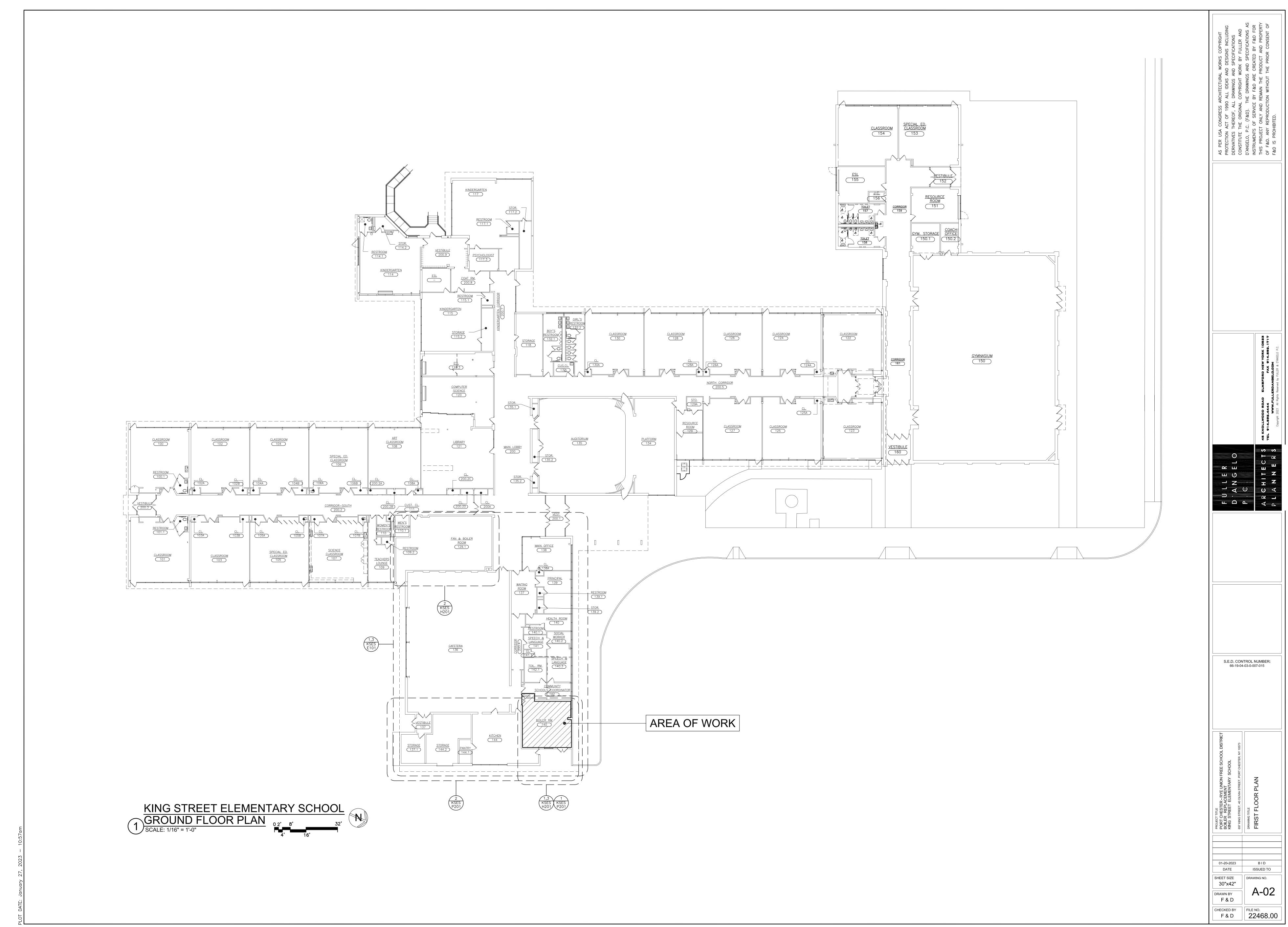
MATCH ADJACENT SURFACES.

PERFORMED.

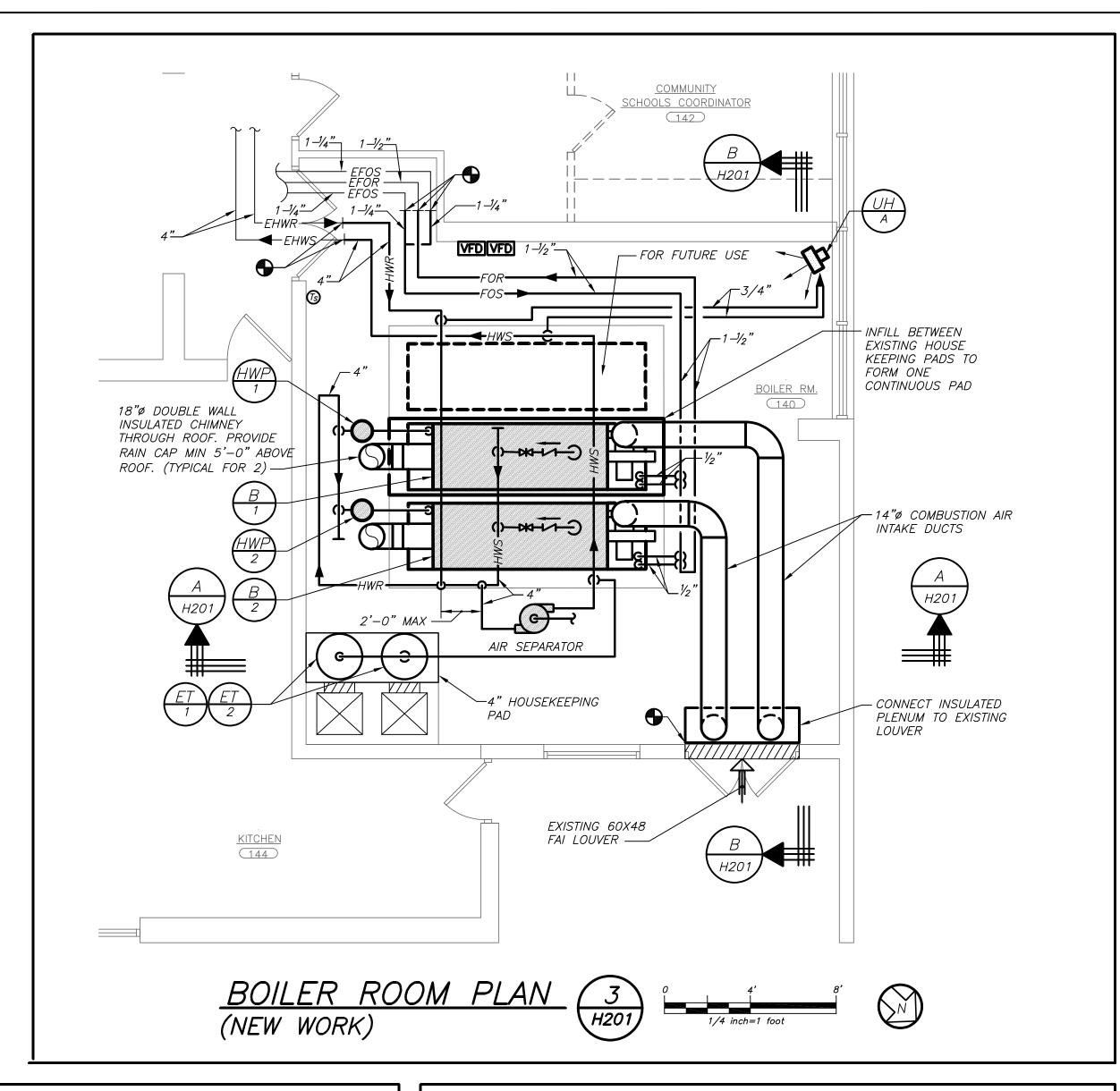
WORK WITHOUT DEFECTS.

IT IN A LEGAL MANNER.





FILE: I:\22468.00 Port Chester King Street Boilers\DRAWINGS\CURRENT\1-F&D\22468.00-G-1 A-01.dwg



REAR DRAIN —

TROUGH DRAIN ---

AIR GAP ON ALL DISCHARGES (TYP.)-

MARK DESCRIPTION

SUCTION DIFFUSER

FLEXIBLE CONNECTION

THERMOMETER

GATE VALVE

TRIPLE DUTY VALVE (SOFT SEAT)

CONCENTRIC REDUCER/INCREASER

(IN CONC. PAD)

NEUTRALIZATION TANK -

~PENETRATIONS, ROOFING, AND STRUCTURAL

LIST OF APPURTENANCES

DIFFERENTIAL PRESSURE GAUGE (WITH SHUT-OFF COCKS)

BOILER ROOM

REINFORCEMENT

— EXISTING ROOF

— FRONT DRAIN

_ 1" COLD WATER FROM

VALVE TO TROUGH DRAIN.

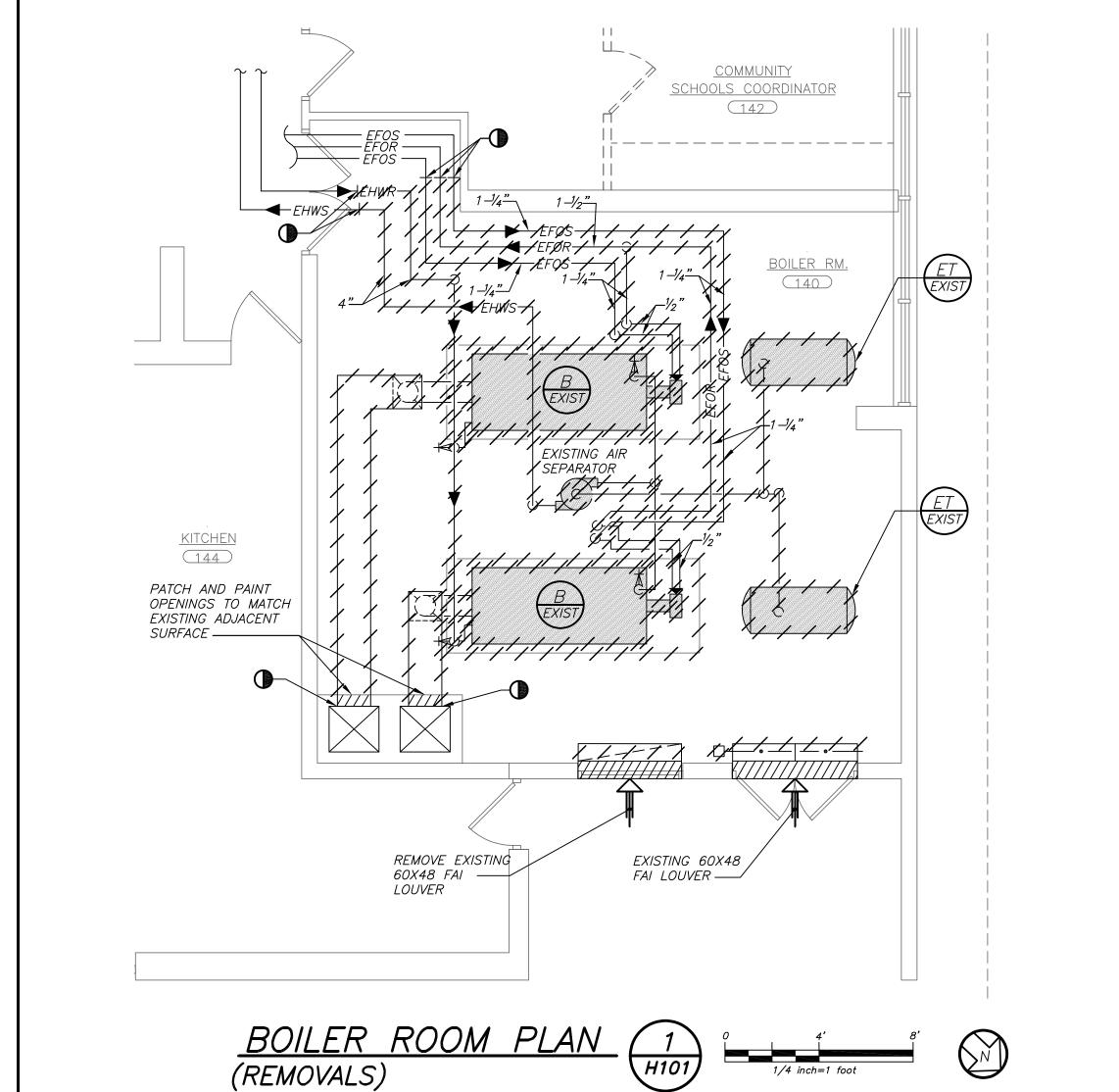
SENSOR IN TROUGH DRAIN TO OPEN SOLENOID VALVE

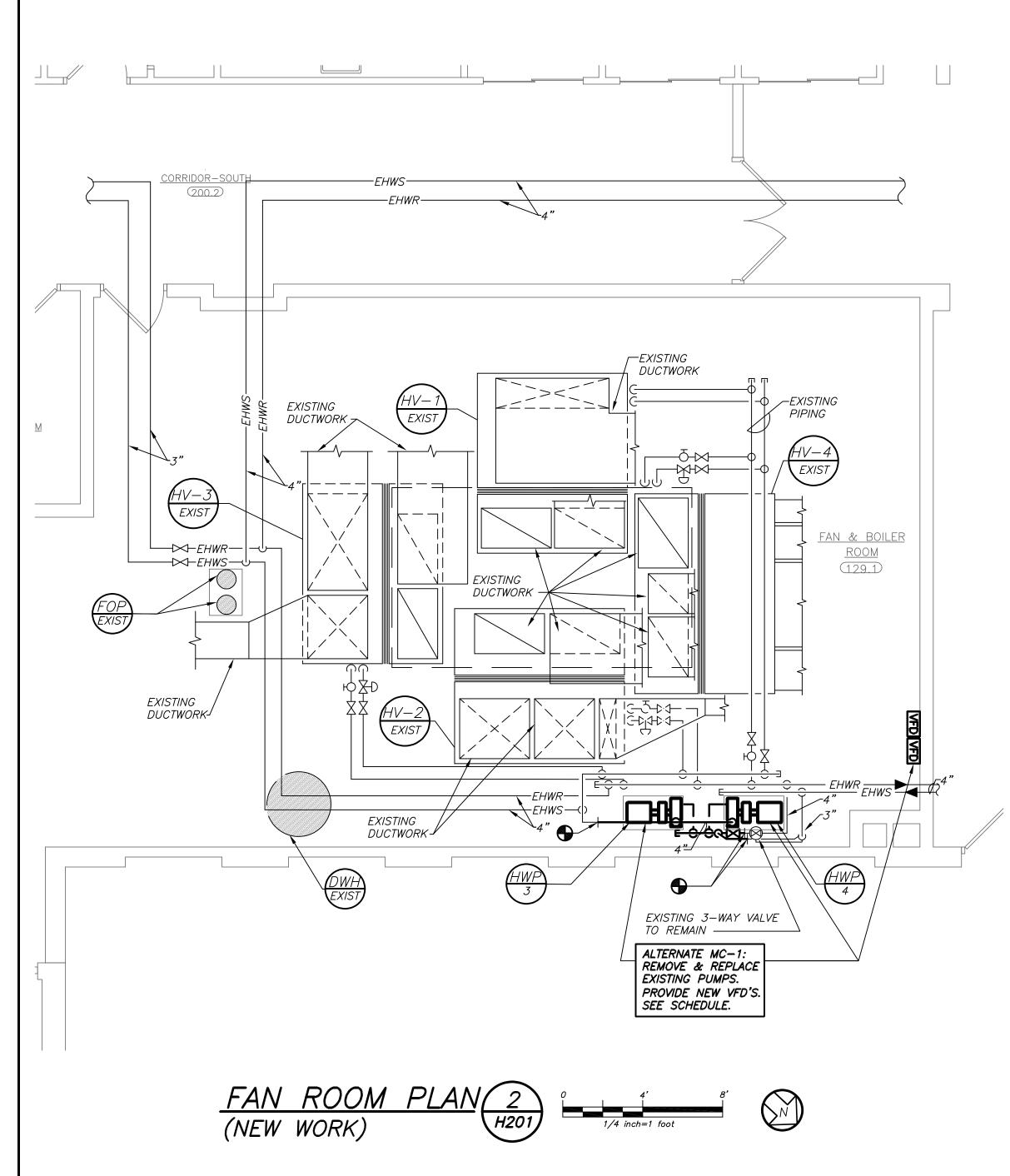
PROVIDE TEMPERATURE

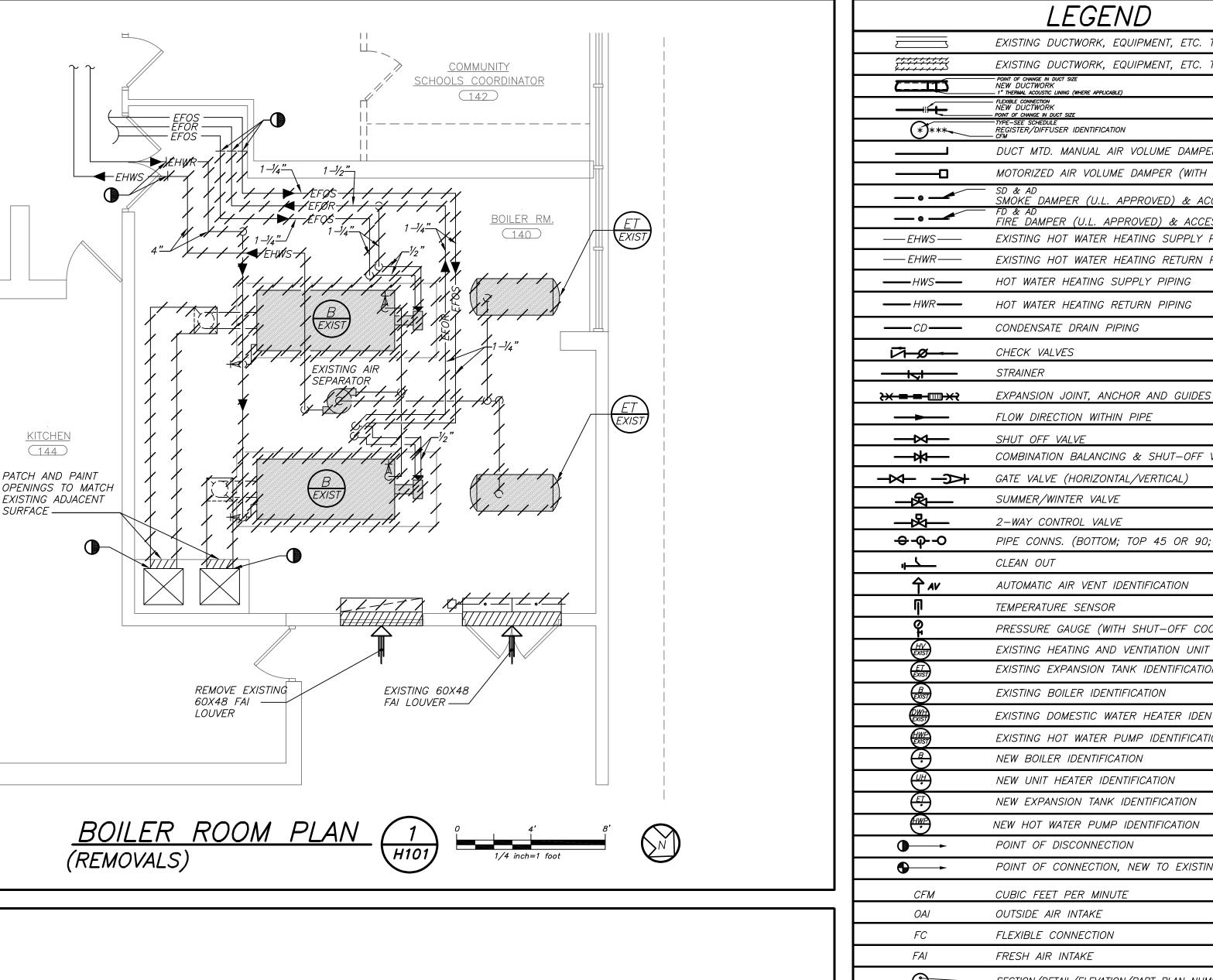
RPZ WITH SOLENOID

WHEN TEMPERATURE

EXCEEDS 120°F.







- OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT E SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL SPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED RAWINGS IN ORDER TO ACCOMMODATE NEW WORK.
- WN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY MOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL CIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCÓRPORATED IN YOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING QUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK VILL BE ALLOWED.
- PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETĆ., SHALL , UNLESS SPECIFICALLY INDICATED.
- O BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED
 ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED ITE AND DISPOSED OF PROPERLY.
- RELOCATE ALL DEVICES LOCATED ON THE EXTERIOR OF THE BUILDING INTERIOR OF EXTERIOR WALLS AS REQUIRED TO ACCOMMODATE ILDING ADDITION OR TO ALLOW THE ADDITION OF DOORWAYS INTO

DILER FILING REQUIREMENTS:

- OR SHALL BE RESPONSIBLE FOR HIRING A LICENSED ENGINEER TO FILE NS, PERMITS AND FILING FEES WITH THE AUTHORITIES HAVING VER THE WORK.
- LIST SERVES AS THE MINIMUM FILING REQUIREMENTS, FAILURE TO LIST NOT RELIEVE THE CONTRACTOR FROM FULFILLING THAT REQUIREMENT. OF RESOLUTION AND LETTER OF AUTHORIZATION FROM OWNER/USER TO CENSED PROFESSIONAL TO EXECUTE FILING.
- SUBMIT (2) ORIGINAL FORM DOH-A, FORM DOH-B2, AND L ASSESSMENT FORM WITH PLANS, PROFESSIONAL ENGINEER'S REPORT, ATIONS WITH ENGINEER'S SEAL.
- PER DEVICE.
- MUST CONFORM TO WITH THE REQUIREMENTS OF PART 227 OF NYCRR.

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	A. THIS CONTRACTOR
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VFD VFD	1. CERTIFICATE OF AUTHORIZE LICE
77	2. PREPARE AND
s # 7 ⁴ "	ENVIRONMENTAL
	AND SPECIFICAT
	3. FILING FEES, F
	4. ALL BOILERS N

EXISTING DUCTWORK, EQUIPMENT, ETC. TO REMAIN EXISTING DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE) MOTORIZED AIR VOLUME DAMPER (WITH ACCESS DOOR) SD & AD SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR FD & AD FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR EXISTING HOT WATER HEATING SUPPLY PIPING EXISTING HOT WATER HEATING RETURN PIPING EXPANSION JOINT, ANCHOR AND GUIDES COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER) PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP) PRESSURE GAUGE (WITH SHUT-OFF COCK) EXISTING HEATING AND VENTIATION UNIT IDENTIFICATION EXISTING EXPANSION TANK IDENTIFICATION EXISTING DOMESTIC WATER HEATER IDENTIFICATION EXISTING HOT WATER PUMP IDENTIFICATION POINT OF CONNECTION, NEW TO EXISTING ------SECTION/DETAIL/ELEVATION/PART PLAN NUMBER ———DRAWING NUMBER (K DENOTES KING ST ES)
———SECTION/ELEVATION IDENTIFICATION

KEY PLAN NO SCALE

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S.E.D. CONTROL NUMBER: 66-19-04-03-0-007-015

01/20/2023	BID
06/01/2022	SED ADDENDUM #1
03/04/2022	PROGRESS SET
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO.
DRAWN BY BGA	H201
CHECKED BY BGA	FILE NO. 22468.00

 $FILE: Y: \PC-RYE UFSD \PC-Rye UFSD - King St. Boiler Replacement (2220.00) \Drawings \HVAC \222000 KSESH201. dwg$

ABOVE ROOF

H201

- STORM COLLAR

- SUPPORT COLLAR

— DOUBLE-WALLED

BOILER ROOM

BASE INTO PAD

— 4" CONCRETE PAD

PUMP STATION
PIPING SCHEMATIC (ALTERNATE)

A NO SCALE
PIPING SCHEMATIC (ALTERNATE)

INSULATED FLUE

UP THROUGH ROOF

– FLASHING

EXISTING

ROOF —

SEPARATOR

PROVIDE CHAIN

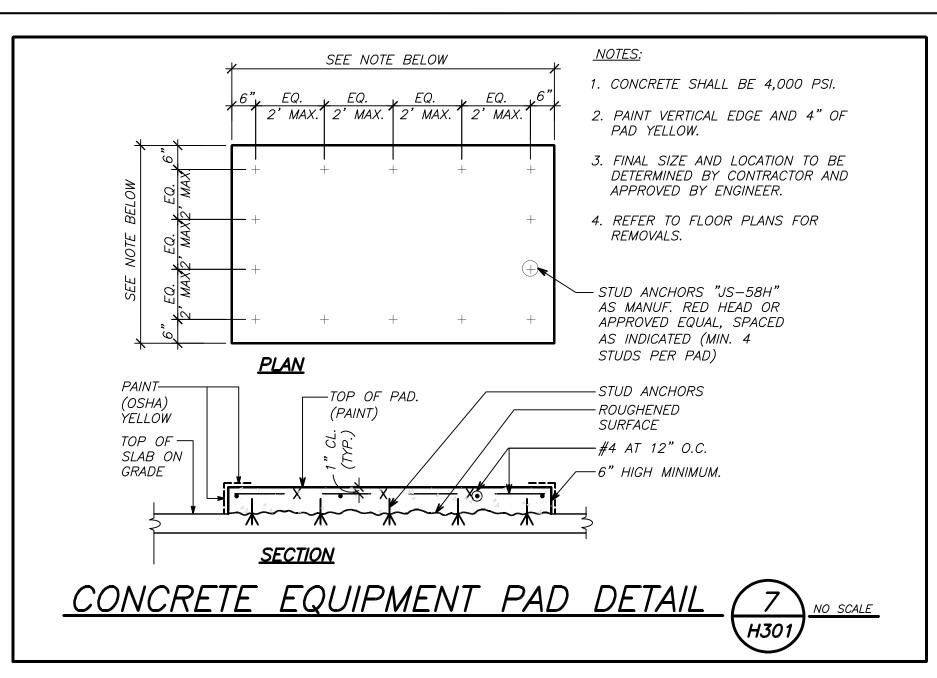
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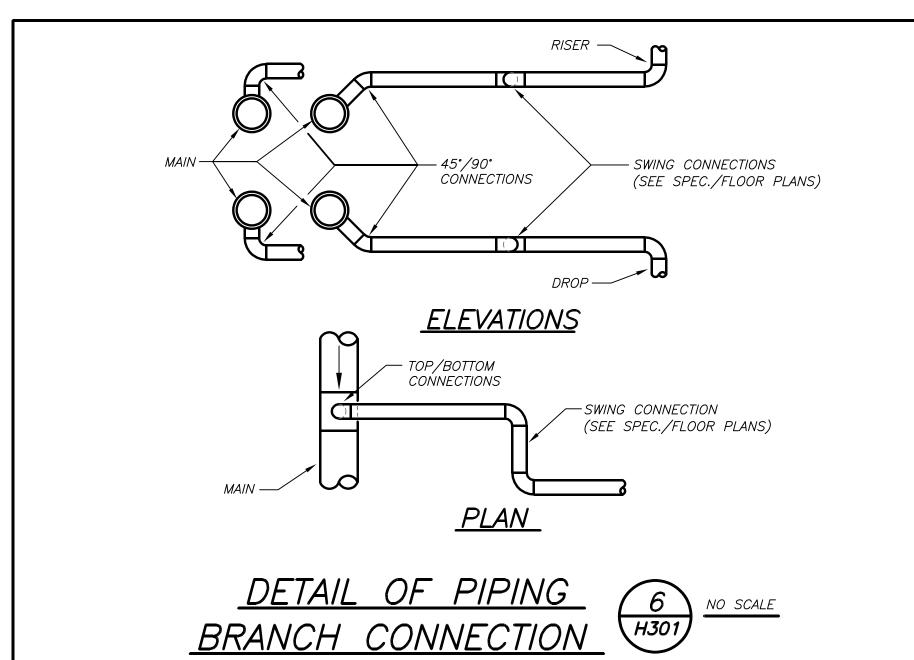
OPERATOR ON

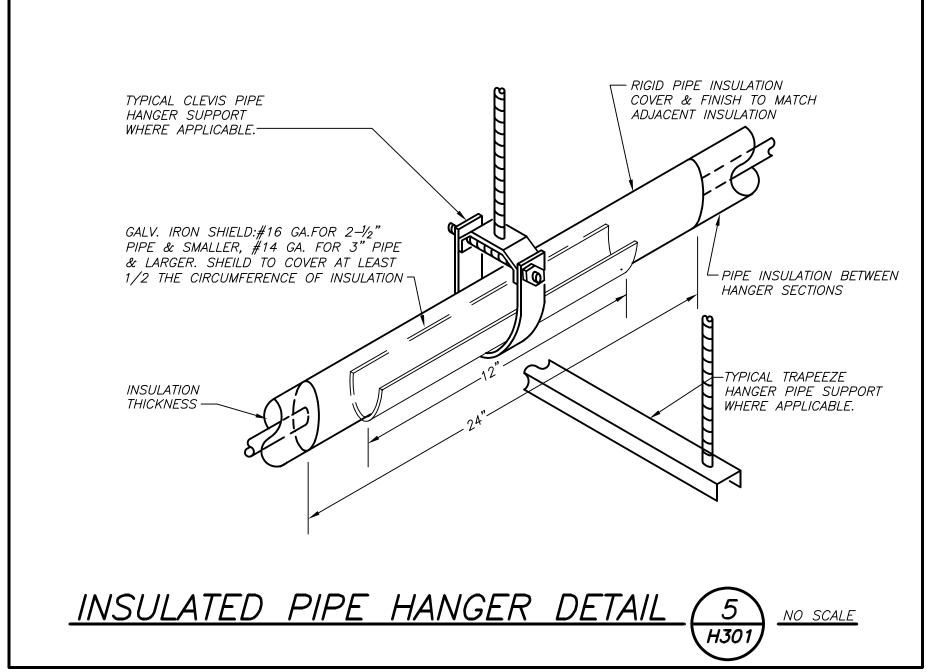
6' A.F.F

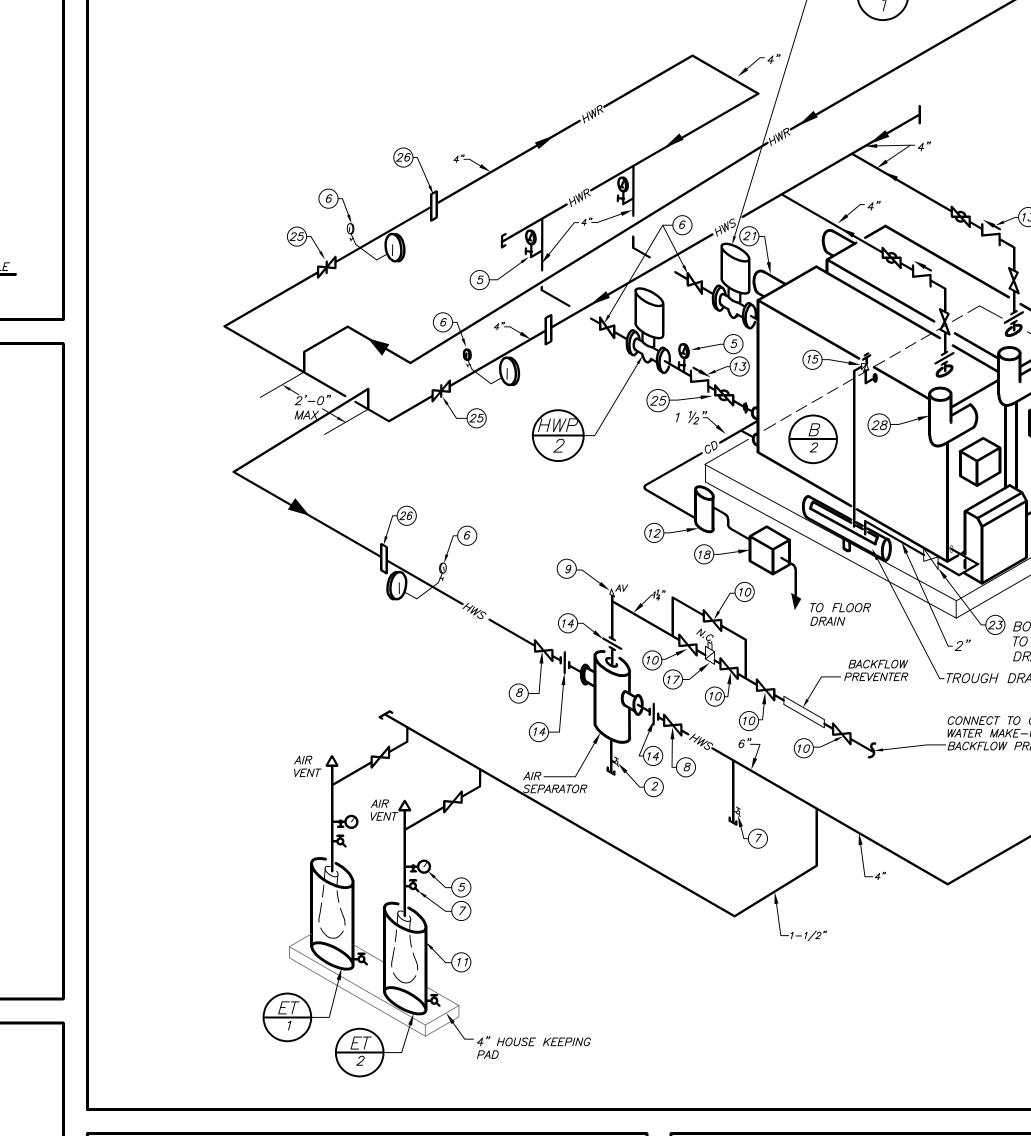
TROUGH

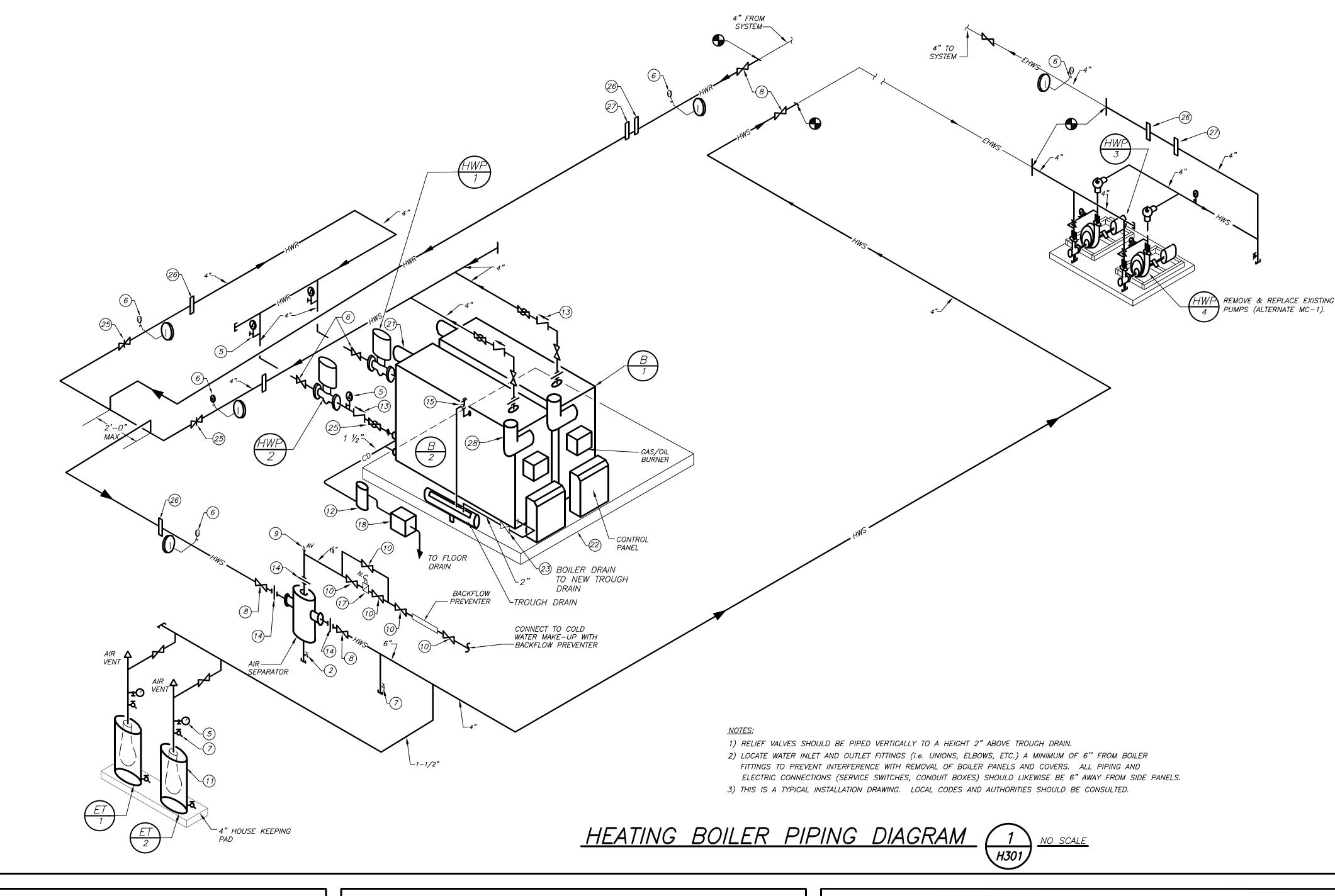
BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.

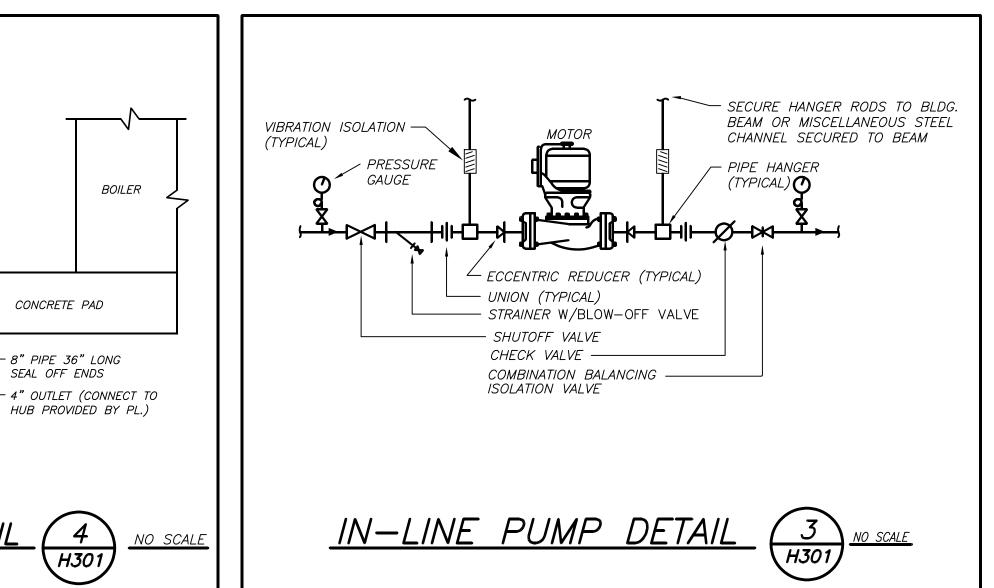


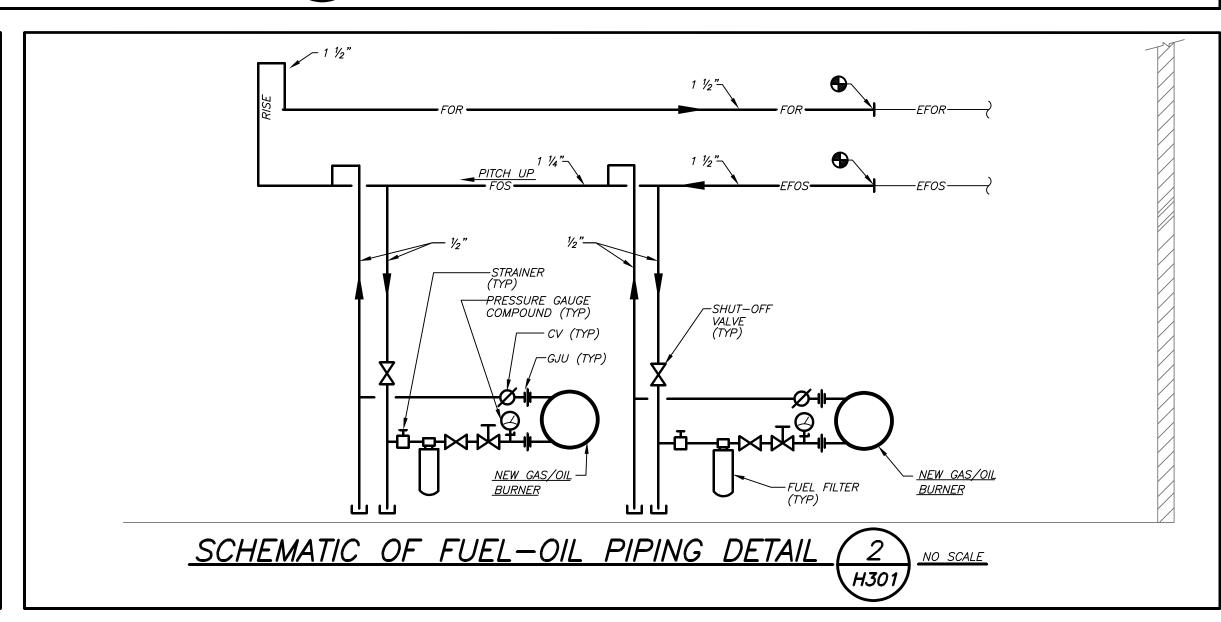












		9	SCHEDULE	= ()F	PU	MPS	5	
MARK	SERVICE	LOCATION	MODEL N <u>O</u>	GPM	HEAD FT. H ₂ O	RPM	MOTOR HP	ELECTRIC V/PH/HZ	REMARKS
HWP 1	BOILER #1 PRIMARY	BOILER ROOM	SERIES 80 5X5X7	290	25	1770	3.0	208/3/60	REFER TO 123
HWP 2	BOILER #2 PRIMARY	V		V	, ,	V		· ·	
HWP 3	BLDG HOT WATER PRIMARY	FAN ROOM	SERIES e-1510 2BD	185	<i>75</i>	1750	5.0	208/3/60	REFER TO 1234
HWP 4	BLDG HOT WATER STAND—BY	•		+	•	↓	\	,	\downarrow

- $egin{array}{c} N @ O \\ O & O \\ O &$
- S 3 PROVIDE PUMPS WITH VARIABLE FREQUENCY DRIVES WITH
- DIFFERENTIAL PRESSURE SENSORS INTERLOCKED WITH BOILER MOD-SYNC CONTROLS. 4 ALTERNATE MC-1. PROVIDE VARIABLE FREQUENCY DRIVES.

	SCHEDULE OF CONDENSING BOILERS																	
	BOILER D.	ATA							BURNER	P DATA			DON ED	DIMENCIONS	UNIT	ELECTRICAL	DATA	
MARK	LOCATION	MODEL N o	BOILER MAX/MIN WATER FLOW (GPM)	GAS INPUT (CFH)	FUEL OIL INPUT (GPH)	OUTPUT (MBH)	FUEL	BURNER MOTOR HP	FUEL OIL MOTOR HP	CONTROL TYPE	APPROVAL	MIN/MAX GAS INLET PRESSURE (IN W.C.)	BOILER TYPE	DIMENSIONS LxWxH (IN)	OPERATING WEIGHT (LBS)	VOLT/PHASE/HZ	FLA	REMARKS
<u>B</u> 1	BOILER ROOM	<i>VANTAGE</i> <i>VTG3000DF</i>	0/290	3000	21.4	2889	#2 OIL AND GAS	3.0	3/4	LO-HI-LO	UL/FM(/IRI)	14.0–42.0	HW CONDENSING FIRE TUBE	132X34.5X72.3	7100	208/3/60	19.0	REFER TO 12345
<u>B</u> 2				 			· ·			•		•						
N O A	S MANUFACTURED BY "	FULTON".																

TROUGH DRAIN DETAIL

BOILER DRAINS — AND DISCHARGES

2" AIR GAP —

- $\begin{bmatrix} 0 \\ T \end{bmatrix}$ Install per manufacturer's recommendations.
- E 3 MINIMUM TURNDOWN 5:1.
- BOILER INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF THE PORT CHESTER-RYE UNION FREE SCHOOL DISTRICT,
- INSURANCE UNDERWRITERS, NFPA AND ALL AUTHORITIES HAVING JURISDICTION.
- 5 PROVIDE 120 VOLT CONTROL TRANSFORMER IN BURNER CONTROL PANEL WITH MOD-SYNC CONTROLS FOR CONNECTION TO

	SCI	HEDUL	LE C	F E	LEC	CTRIC	UNIT	HEATER	75	
MARK	MODEL No. 🚺	CAPACITY . BTU/HR	DATA AMP	MOTOR HP	MCA			DATA WEIGHT (LBS)	MTG.	REMARKS
UH A	HS-125A	24,800	1.2	25W	1.5	115/1/60	6X16X18	50	CEILING	REFER TO 2 3 4

- N (1) AS MANUFACTURED BY "STERLING". 2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 4 PROVIDE ALL POWER RELAYS AND BACNET 3 PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND

		SCHEDU	JLE OF	EXPANSIC	N TANKS
S	MARK	MODEL N≗	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
)	ET 1	B-400	106	106	REFER TO ①②③
	ET 2		,		
	N (1)	AS MANUFACTURED	BY "BELL & GOSSE	TT".	

 $\frac{1}{7}$ (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

E 3 ASME RATED, HORIZONTAL MOUNTING.

06/01/2022 SED ADDENDUM # PROGRESS SET DATE ISSUED TO SHEET SIZE 30"x42" DRAWN BY BGA CHECKED BY FILE NO. 22468.00 BGA

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S.E.D. CONTROL NUMBER: 66-19-04-03-0-007-015

LIST OF APPURTENANCES

TRIPLE DUTY VALVE (SOFT SEAT)

PRESSURE GUAGE(W/SHUT-OFF COCK)

DRAIN VALVE WITH HOSE END CONNECTION

(WITH CHAIN OPERATOR FOR UNREACHABLE LOCATIONS

DESCRIPTION

UCTION DIFFUSER

FLEXIBLE CONNECTION

CONCENTRIC REDUCER

AUTOMATIC AIR VENT

PRESSURIZED EXPANSION TANK

PRESS./TEMP. RELIEF VALVE GROUT PUMP BASE INTO PAD

REGULATOR W/ BUILT IN CHECK VALVE CONDENSATE PH NEUTRALIZER

CONDENSATE DRAIN TRAP

BALL VALVE

CHECK VALVE

UNION CONNECTION

MANUAL GAS COCK BUTTERFLY VALVE

4" HOUSEKEEPING PAD

GAS PRESSURE REGULATOR

HEADER TEMPERATURE SENSOR

COMBUSTION AIR FAN INTAKE

DIFFERENTIAL PRESSURE SENSOR (VFL

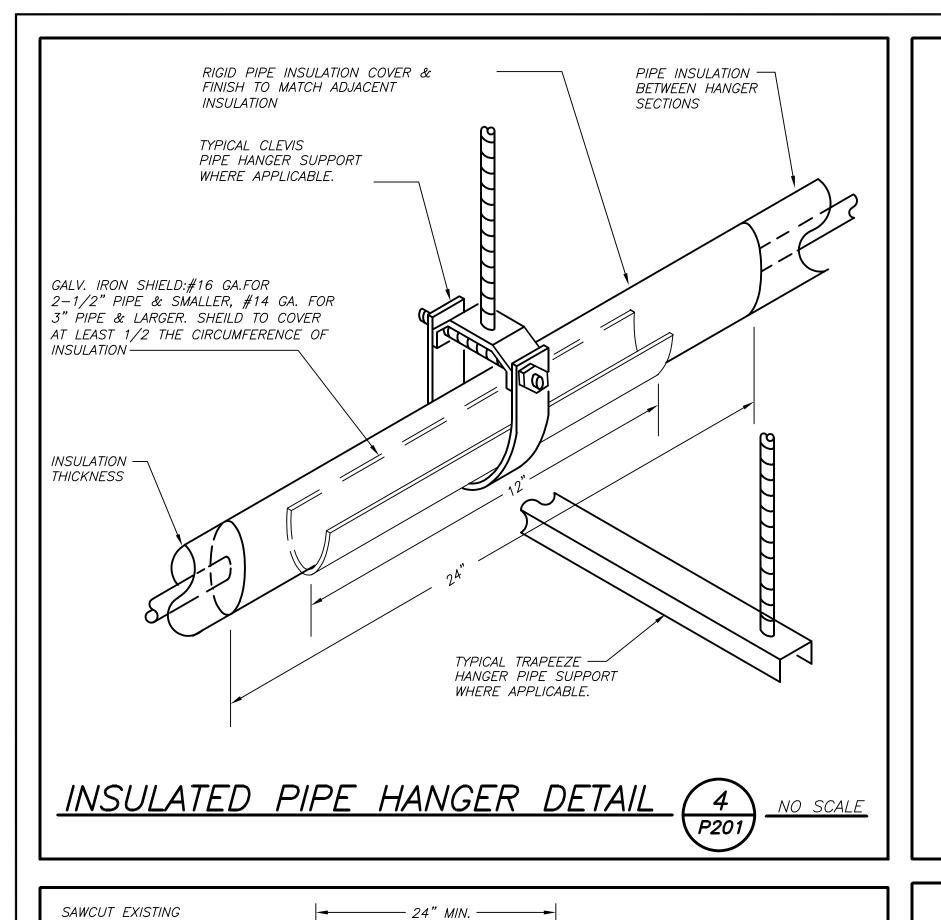
FLUE OUTLET

BOILER DRAIN

BALANCE VALVE

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.

FILE: Y:\PC-RYE UFSD\PC-Rye UFSD - King St. Boiler Replacement (2220.00)\Drawings\HVAC\222000KSESH301.dwg



- EXISTING FLOOR

VAPOR RETARDER "

SEAL OVERLAP WITH APPROVED TAPE.

- PEA GRAVEL FROM TOP OF SAND TO UNDERSIDE

UTILITY PIPING WHERE

UNDISTURBED SOIL OR

COMPACTED SUB-GRADE.

INDICATED ON PLANS.

iglup EXIST. SUBGRADE.

OF SLAB.

#4X18" LONG @ 12" O.C.

OVERLAP JOINTS 6" MIN.

SET IN EPOXY AT EXISTING

SLAB EACH SIDE OF TRENCH.

FLOOR SLAB. —

APPLY BONDING -AGENT @ EDGE

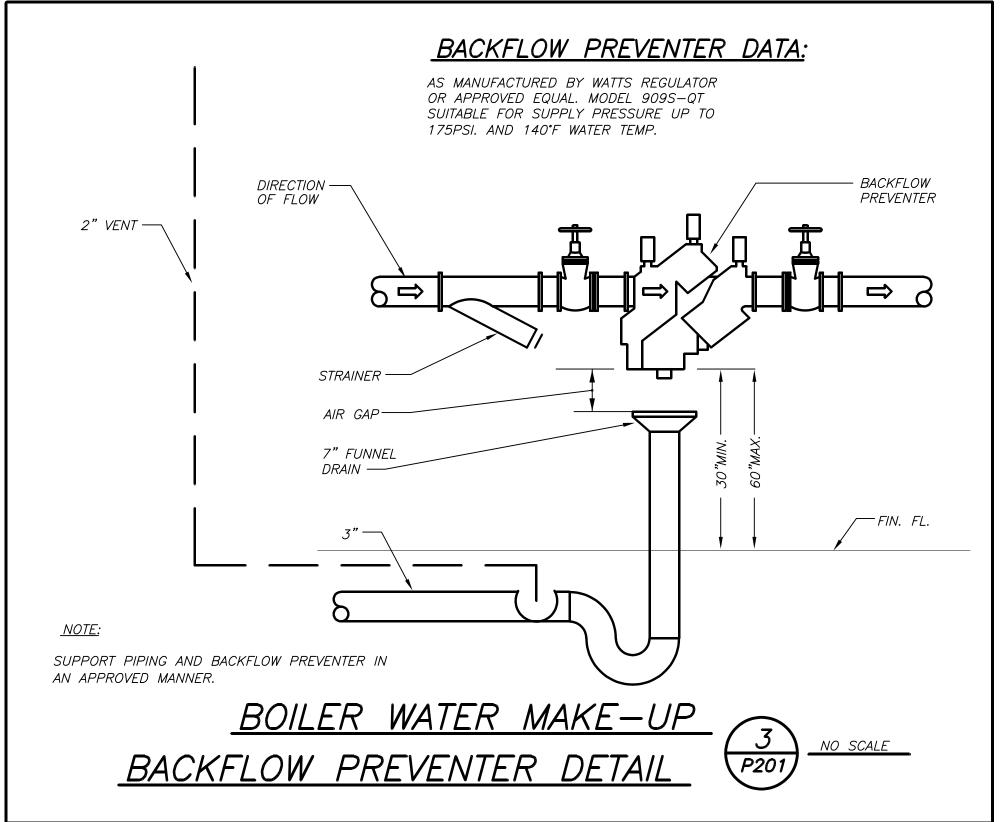
OF EXIST. SLAB

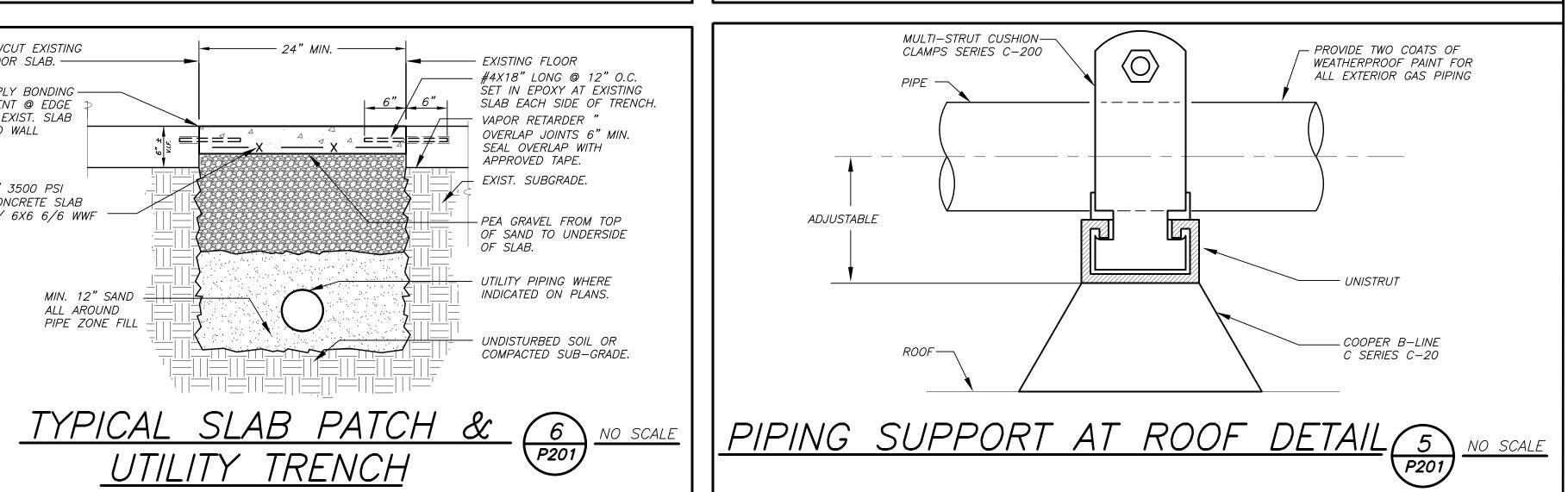
4" 3500 PSI CONCRETE SLAB

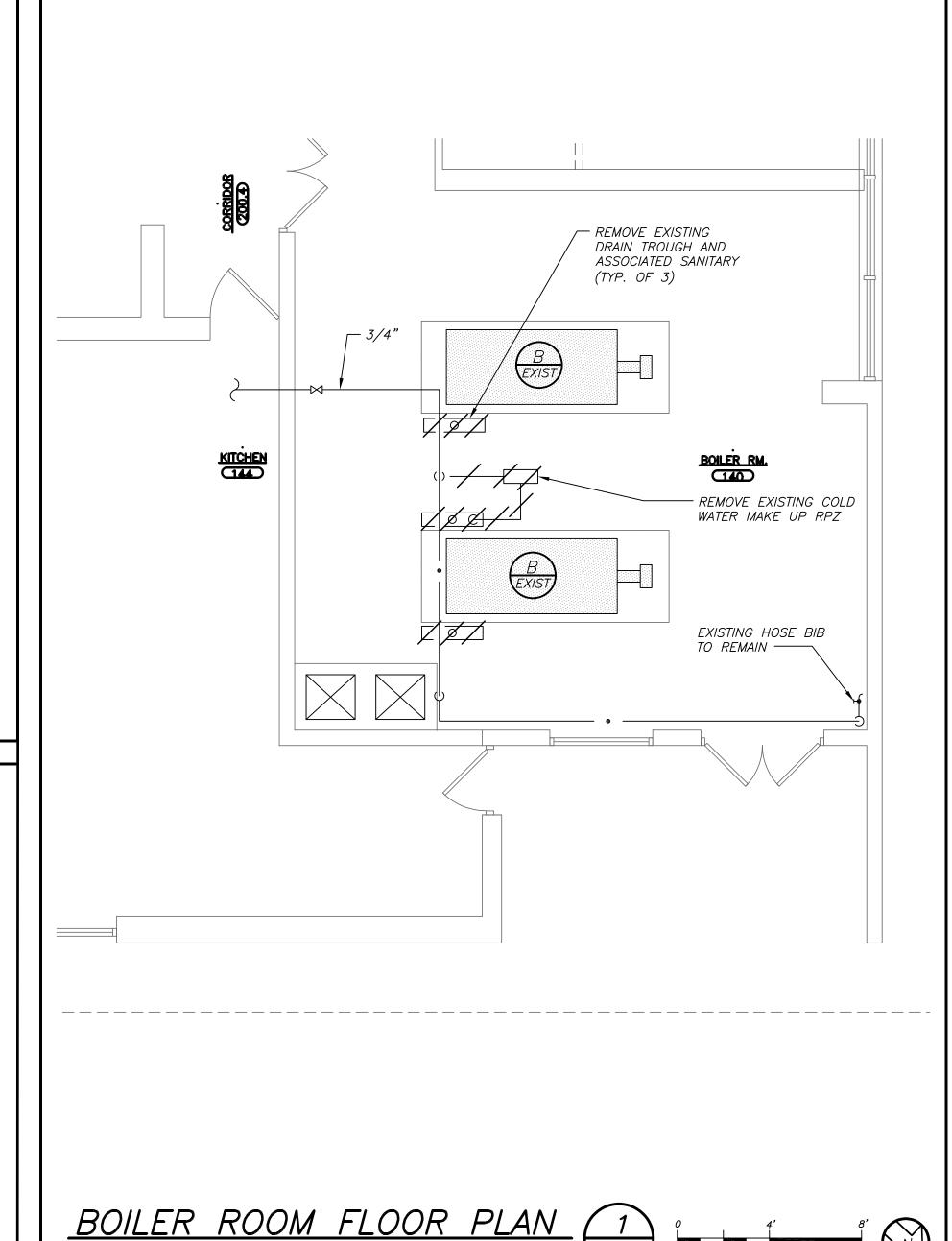
W/ 6X6 6/6 WWF

ALL AROUND PIPE ZONE FILL

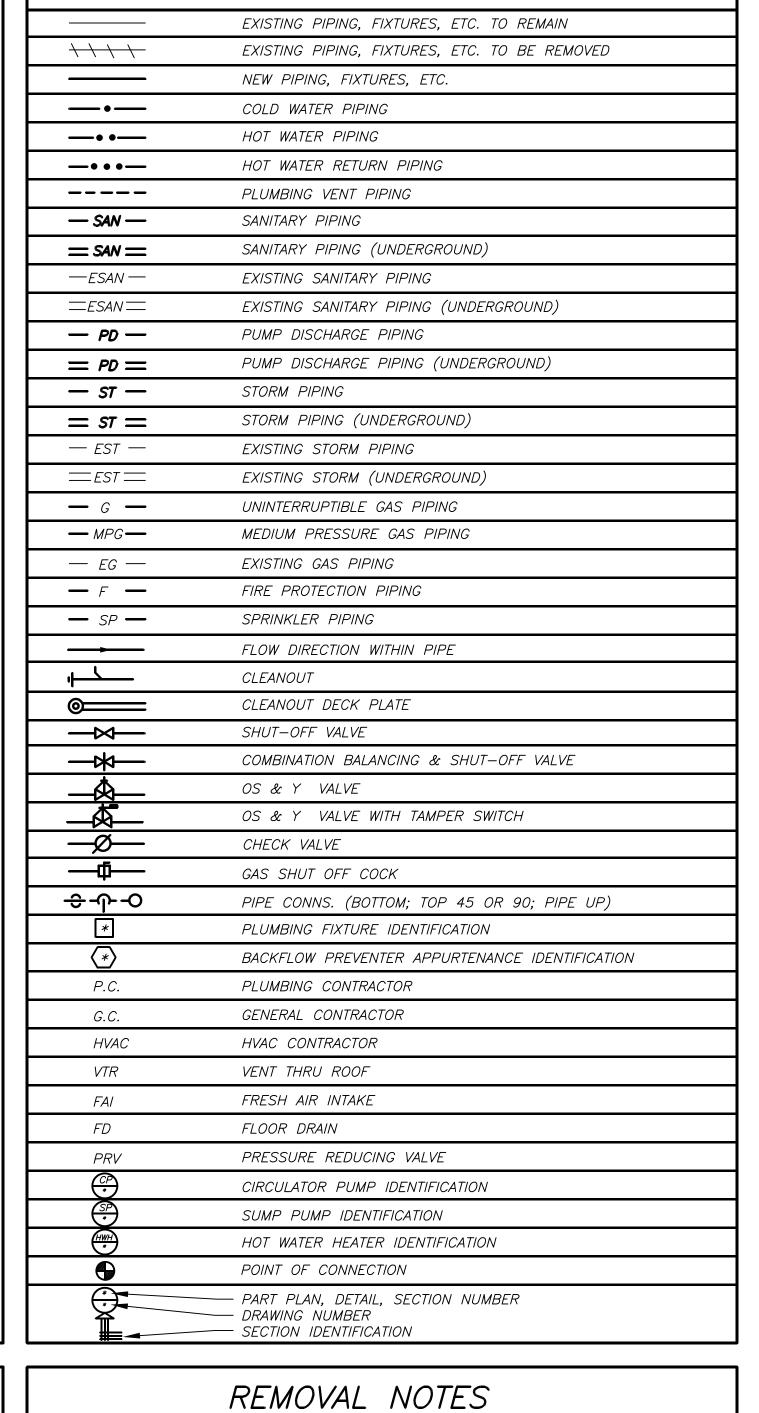
AND WALL

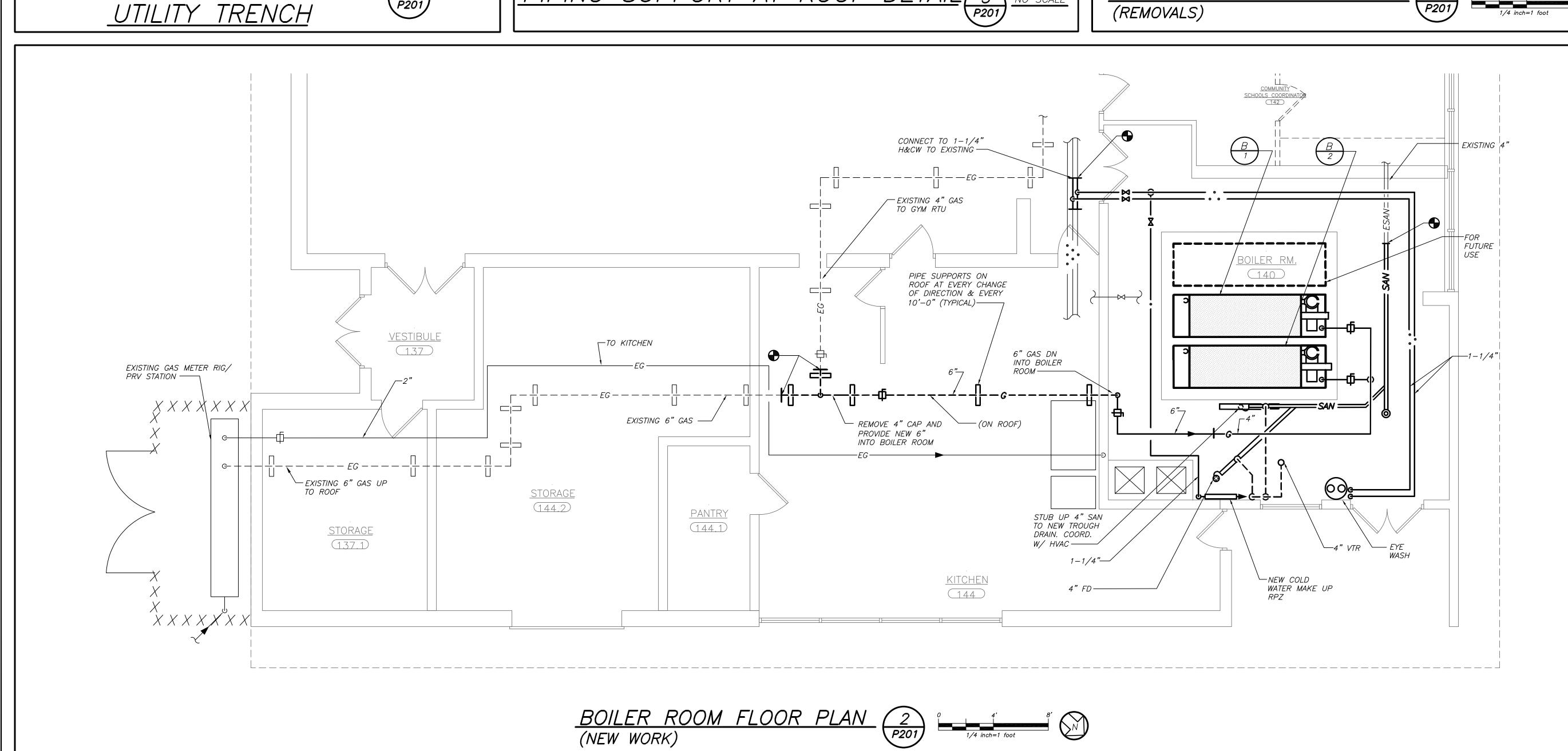




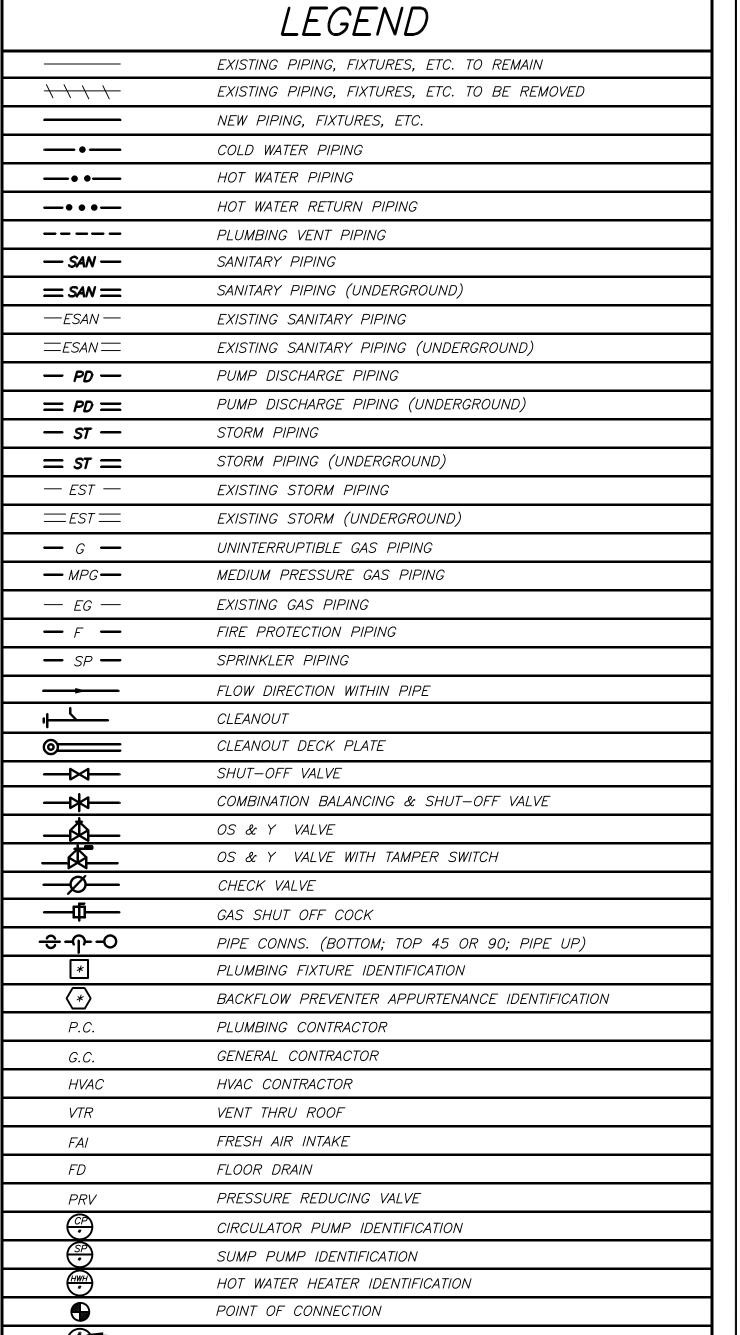


(REMOVALS)



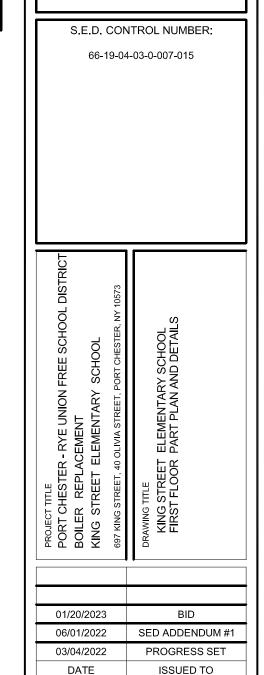


- HANGERS, BASES, SUPPORTS, PIPING, VALVES, TUBING AND PLUMBING ACCESSORIES THAT ARE NOT INCORPORATED IN THE NEW LAYOUT.
- WHERE REMOVAL IS INDICATED OR IMPLIED OR NOT INCORPORATED IN THE NEW LAYOUT, THE ITEM ITSELF IS TO BE REMOVED COMPLETELY TOGETHER WITH ALL CONNECTING PIPING, SPECIALTIES, SUPPORTS, CONTROLS, ETC. CONNECTING PIPING IS TO BE REMOVED BACK TO MAINS WHERE THEY ARE TO BE CAPPED OR DISCONNECTED. THIS INCLUDES ALL GAS, SANITARY, VENT, WATER, COMPRESSED AIR, ACID WASTE, VACUUM, AND PUMP DISCHARGE PIPING. REFER TO DIVISION I OF SPECIFICATION FOR CUTTING AND PATCHING
- CEILINGS INSIDE THE EXISTING BUILDING, IT SHALL BE CUT BACK AT LEAST 2" INTO SUCH INACCESSIBLE SPACES AND SHALL BE SUITABLY CAPPED AND SEALED BY THE
- THE CONTRACTOR SHALL EXERCISE NORMAL CAUTION TO PREVENT UNNECESSARY CUTTING AND DAMAGE TO THE EXISTING BUILDING. ANY EXCESSIVE DAMAGE AS DETERMINED BY THE OWNER SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR CAUSING THE DAMAGE.
- PREMISES, AND DISPOSED OF LEGALLY.





- REMOVE ALL PLUMBING FIXTURES, EQUIPMENT, SPECIALTIES, DRAINS, CONTROLS,
- WHERE EXISTING PIPING ENTERS INACCESSIBLE TRENCHES, TUNNELS, SHAFTS, WALLS AND
- (5) ALL DEMOLISHED EQUIPMENT ETC. EXCEPT THOSE ITEMS SPECIFICALLY REQUESTED BY THE OWNER SHALL BECOME THE CONTRACTORS PROPERTY, SHALL BE REMOVED FROM THE



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KEY PLAN NO SCALE

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK

OF ALL OTHER CONTRACTORS. $FILE: Y: \PC-RYE UFSD \PC-Rye UFSD - King St. Boiler Replacement (2220.00) \Drawings \Plumbing \222000 KSESP201. dwg$

30"x42" DRAWN BY FILE NO. 22468.00

BGA CHECKED BY BGA

GENERAL NOTES:

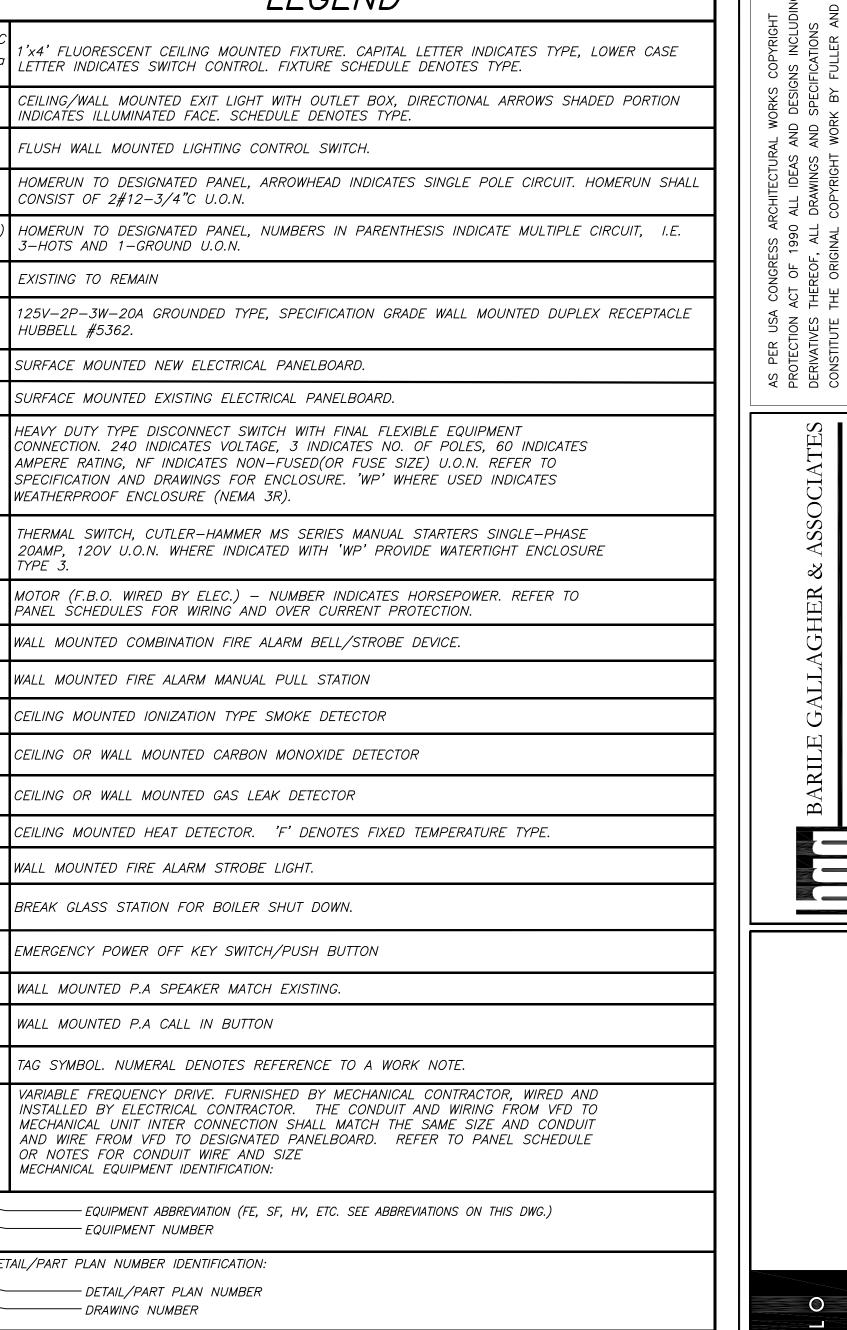
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS. SUPPORTS. FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
- 2. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
- WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER.
- 4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
- . ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. WHERE SHOWN DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED, WITH LETTER (ER) IS EXISTING RELOCATED, WITH LETTER (RN) IS EXISTING TO BE REPLACED WITH NEW AND WITH LETTER (RR) IS REMOVED, SALVAGED AND RELOCATE.
- CIRCUIT NUMBERS TO EXISTING PANELS ARE SHOWN FOR INTENT ONLY. ACTUAL CIRCUIT NUMBERS TO BE USED SHALL BE AS PER FIELD CONDITIONS BY UTILIZING SPARE CIRCUITS, BREAKERS OR SPACES IN EXISTING PANEL, SIZE AS INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL BALANCE LOAD OF CIRCUITS EVENLY ON ALL PHASES.
- FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN CONDUIT MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE DONE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREA CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
- PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT.
- 9. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
- 10. THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOXES IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'-0".
- 11. EXACT LOCATION AND MOUNTING HEIGHTS OF ALL WIRING DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
- 12. WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.,) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS.
- 13. CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
- 14. PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
- 15. CONTRACTOR SHALL COORDINATE WITH THE FIRE DEPARTMENT AND F.A. VENDOR BEFORE PROCEEDING WITH WORK INVOLVING FIRE ALARM SYSTEM.
- 16. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE.
- 17. THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.
- 18. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
- 19. THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE CONFIGURATION TYPE FOR ALL SPECIAL RECEPTACLES FOR COPIERS, DATA PROCESSING EQUIPMENT. ETC. WITH OWNER AND ENGINEER PRIOR TO ORDERING.
- 20. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.
- 21. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
- 22. PRIOR TO ANY CHASING, CHOPPING OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE ALL WORK TO ENSURE THAT IT WILL BE IN HARMONY AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING OWNER PRIOR TO PROCEEDING.
- 23. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
- 24. ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK.
- 25. PREPARE 'AS-BUILT' DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.

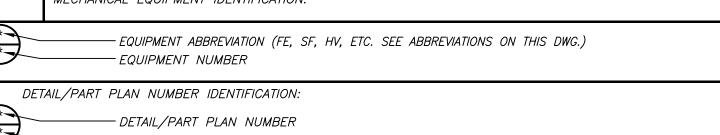
REMOVAL NOTES:

- BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK.
- 2. BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF THE SPACE BEFORE SUBMITTAL OF BID.
- 3. ALL ELECTRICAL EQUIPMENT IS EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 - CIRCUIT BREAKERS AND DISCONNECT SWITCHES. RECEPTACLES, OUTLETS AND DEVICES.
- 4. ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH THE ELECTRICAL EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF POWER AND DISCONNECTED.
- 5. ALL POWER CONDUCTORS. CONTROL WIRING AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SUCH AS FANS, AIR CONDITIONING UNITS, PUMPS, ETC. DESIGNATED FOR REMOVAL ON THE HVAC AND PLUMBING REMOVAL DRAWINGS SHALL BE REMOVED CLEAR BACK TO THE SOURCE OF POWER AND DISCONNECTED. ALL MOTOR STARTERS, DISCONNECT SWITCHES, CONTROL DEVICES, ETC. SHALL BE REMOVED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 6. CIRCUIT BREAKERS AND/OR SWITCHES IN PANELBOARD(S) OR DISTRIBUTION BOARD(S) MADE SPARE DUE TO REMOVAL SHALL BE DESIGNATED AS SUCH ON THE EQUIPMENT SCHEDULE.
- 7. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO TRACE AND RELOCATE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING WHICH PASSES THROUGH THE REMOVAL AREA THAT SERVE EXISTING OCCUPIED SPACES TO REMAIN. COORDINATE WITH BUILDING MANAGER PRIOR TO ANY SHUTDOWNS OR DISRUPTIONS THAT MAY BE REQUIRED TO ACCOMPLISH THIS
- 8. DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE REUSED. PRIOR TO DISPOSAL, CONTACT BUILDING MANAGER TO DETERMINE IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK.
- 9. ALL FIRE ALARM DEVICES ARE EXISTING TO BE REMOVED UNLESS OTHERWISE
- 10. EXISTING EQUIPMENT DESIGNATED FOR REUSE SHALL BE CLEANED, REFURBISHED AND RESTORED TO OPTIMUM PERFORMANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO CLEANING OF LIGHT FIXTURES, REPLACEMENT OF INOPERABLE BALLASTS AND LAMPS, RESISTANCE TESTING OF BRANCH CIRCUITRY AND FEEDERS, ETC.

ABBV.	DESCRIPTION
A	AMP/AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AIC	AMP INTERRUPTING CURRENT
AWG	AMERICAN WIRE GAUGE
С	CONDUIT
C.B.	CIRCUIT BREAKER
CKT	CIRCUIT
(E)	EXISTING TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
EM	EMERGENCY
(ER)	EXISTING RELOCATED
EXIST.	EXISTING
G,GRD	GROUND
HWP	HOT WATER HEATING PUMP
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
Ν	NEUTRAL
NTS	NOT TO SCALE
P.A.	PUBLIC ADDRESS
PNL	PANEL
(R)	REMOVE EXISTING
RECPT	RECEPTACLE
(RN)	REPLACE EXISTING W/NEW
(RR)	REMOVED, SALVAGED AND RELOCATE
TYP.	TYPICAL
W	WATT

/	ABBREVIATIONS		LEGEND						
ABBV.	DESCRIPTION	1							
Α	AMP/AMPERE		1'x4' FLUORESCENT CEILING MOUNTED FIXTURE. CAPITAL LETTER INDICATES TYPE, LOW LETTER INDICATES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.						
A.F.F.	ABOVE FINISHED FLOOR	1 ├ ──							
AIC	AMP INTERRUPTING CURRENT		CEILING/WALL MOUNTED EXIT LIGHT WITH OUTLET BOX, DIRECTIONAL ARROWS SHADED INDICATES ILLUMINATED FACE. SCHEDULE DENOTES TYPE.						
AWG	AMERICAN WIRE GAUGE	1 <u> </u>							
С	CONDUIT	S	FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH.						
C.B.	CIRCUIT BREAKER	3	HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOME						
CKT	CIRCUIT		CONSIST OF 2#12-3/4"C U.O.N.						
(E)	EXISTING TO REMAIN	2,(4,6)	HOMERUN TO DESIGNATED PANEL, NUMBERS IN PARENTHESIS INDICATE MULTIPLE CIRC						
E.C.	ELECTRICAL CONTRACTOR		3-HOTS AND 1-GROUND U.O.N.						
EM	EMERGENCY]	EXISTING TO REMAIN						
(ER)	EXISTING RELOCATED		125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED DUPLEX R						
EXIST.	EXISTING	_	HUBBELL #5362.						
G,GRD	GROUND		SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.						
HWP	HOT WATER HEATING PUMP		SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.						
KVA	KILOVOLT AMPERE		SURFACE MOUNTED EXISTING ELECTRICAL PANELBOARD.						
KW	KILOWATT	240/3	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT						
LTG	LIGHTING	60 40	CONNECTION. 240 INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES						
MCB	MAIN CIRCUIT BREAKER		AMPERE RATING, NF INDICATES NON—FUSED(OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. 'WP' WHERE USED INDICATES						
MLO	MAIN LUGS ONLY	WP	WEATHERPROOF ENCLOSURE (NEMA 3R).						
MTD	MOUNTED	<u> </u>	THERMAL SWITCH, CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE						
Ν	NEUTRAL	」 S _⊤	20AMP, 120V U.O.N. WHERE INDICATED WITH 'WP' PROVIDE WATERTIGHT ENCLOSURE						
NTS	NOT TO SCALE	4	TYPE 3.						
P.A.	PUBLIC ADDRESS	/5/	MOTOR (F.B.O. WIRED BY ELEC.) — NUMBER INDICATES HORSEPOWER. REFER TO						
PNL	PANEL	 	PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.						
(R)	REMOVE EXISTING		WALL MOUNTED COMBINATION FIRE ALARM BELL/STROBE DEVICE.						
RECPT	RECEPTACLE		WALL MOUNTED FIRE ALARM MANUAL PULL STATION						
(RN)	REPLACE EXISTING W/NEW] "	The strict of th						
(RR)	REMOVED, SALVAGED AND RELOCATE	<u>S</u>	CEILING MOUNTED IONIZATION TYPE SMOKE DETECTOR						
TYP.	TYPICAL	©/©	CEILING OR WALL MOUNTED CARBON MONOXIDE DETECTOR						
W	WATT	J <u> </u>	OFWING OR WALL MOUNTED OAS LEAK DETECTOR						
		<u>©/©</u>	CEILING OR WALL MOUNTED GAS LEAK DETECTOR						
		\bigoplus_{F}	CEILING MOUNTED HEAT DETECTOR. 'F' DENOTES FIXED TEMPERATURE TYPE.						
		ST	WALL MOUNTED FIRE ALARM STROBE LIGHT.						
		B/G	BREAK GLASS STATION FOR BOILER SHUT DOWN.						
		EPO	EMERGENCY POWER OFF KEY SWITCH/PUSH BUTTON						
		HS	WALL MOUNTED P.A SPEAKER MATCH EXISTING.						
		СІ	WALL MOUNTED P.A CALL IN BUTTON						





S.E.D. CONTROL NUMBER: 66-19-04-03-0-007-015

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03/04/2022 PROGRESS SET ISSUED TO SHEET SIZE 30"x42" DRAWN BY BGA

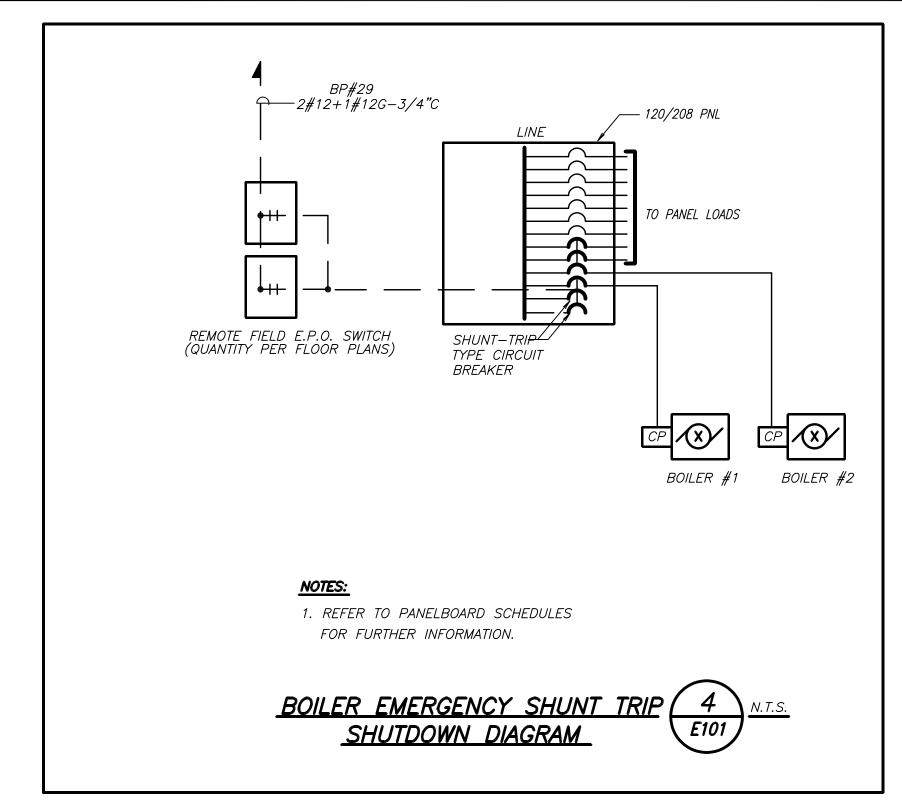
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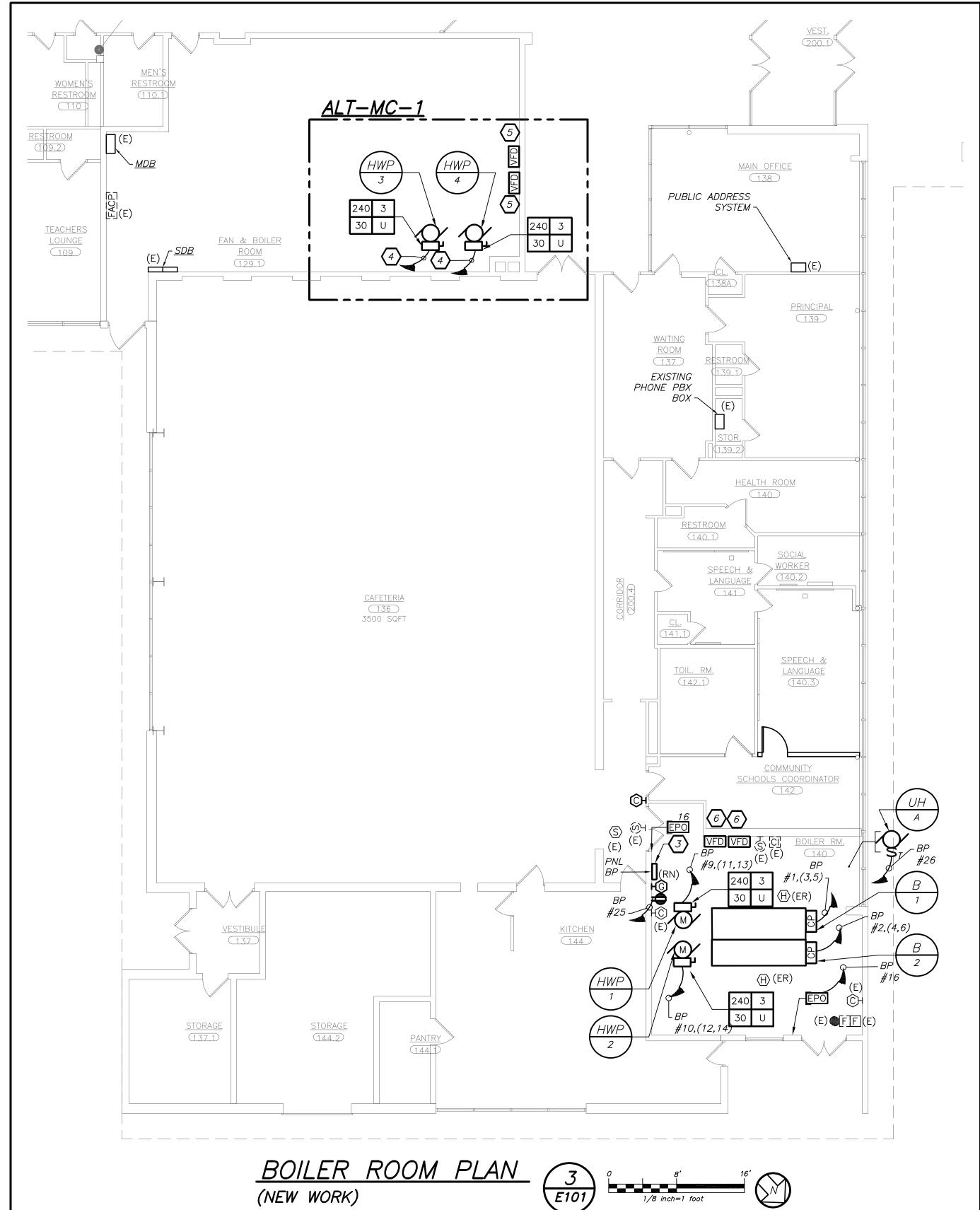
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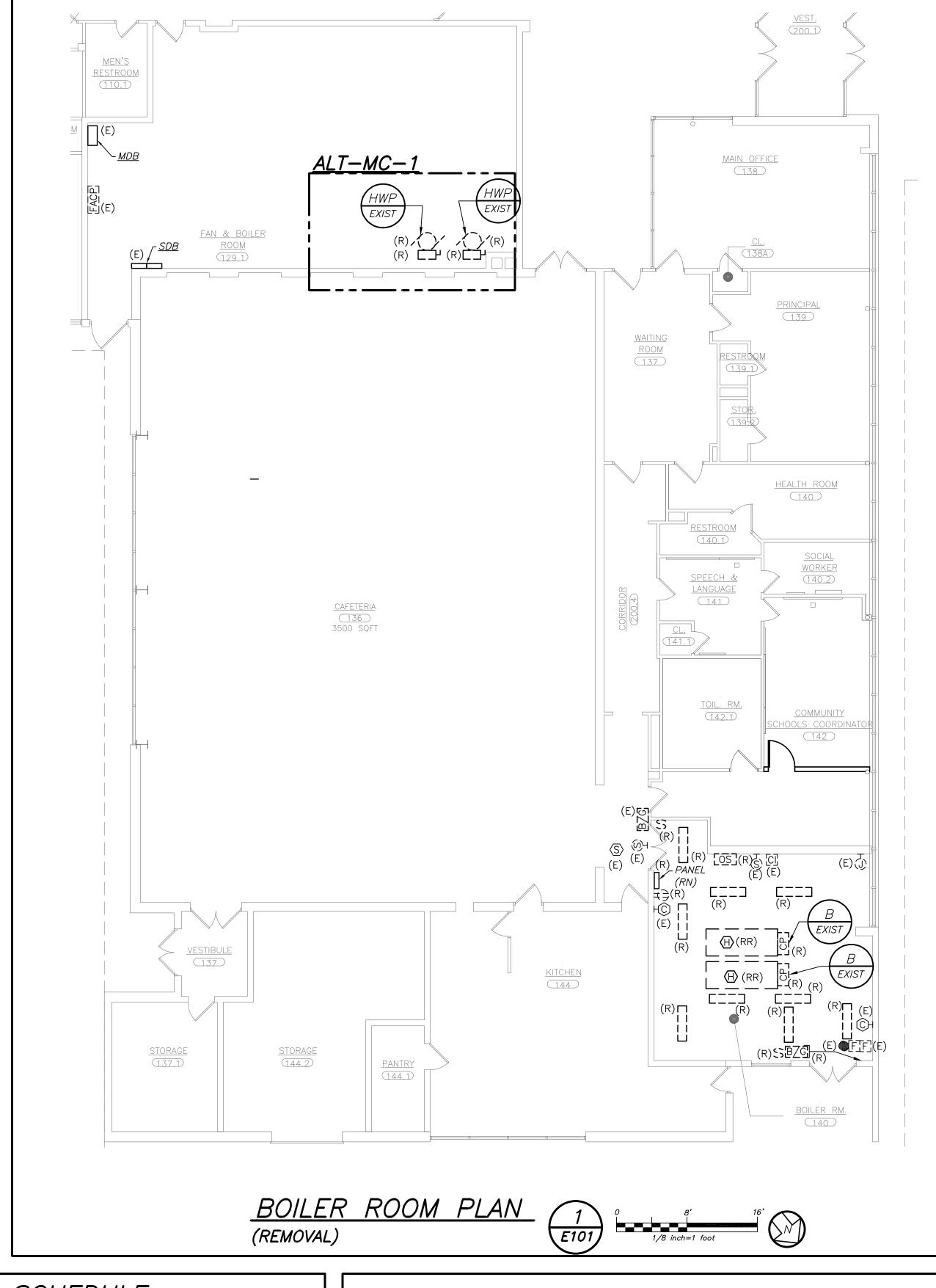
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BGA

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.

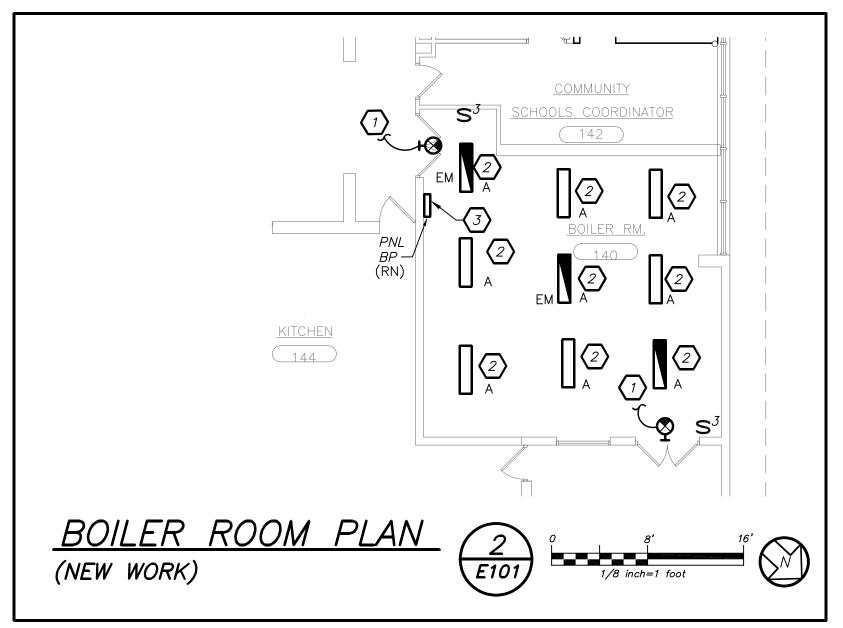






<u>(</u> \	(NEW) ELE			LECTRICAL PANEL SCHEDULE												
PA	NEL:	BP	MOUNTING:	SUR	FACE	<u>X</u>	N	IAIN L	.UGS (ONLY		MAIN	I C BKR-	GROUND	BUS:	
2	08Y/1	20, 3 PHASE, 4 WIRE	(NEMA 1)	F	LUSH			DOL	JBLE I	LUGS		1	00A/3P	ISOLATED GROUND	BUS:	
22	,00	OMIN A.I.C. SYM		IN	IN MCC		F		THRU	LUG		MAIN BUS -		7	VSS:	
NE	UTRA	<u>: 100%</u>					Si	HUNT	TRIP	MAIN			100 A	NUMBER OF PO	DLES:	
СКТ	TRI	P LOAD	WIRE	CND.	KVA	A / PH/	ASE		KVA	A / PHA	ASE	CND.	WIRE	LOAD	TRIP	С
No.	(АМ	?)		(IN.)	А	В	С		Α	В	С	(IN.)			(AMP)	۸
1	3	/	<u> </u>	-	2.30				2.30			·	-		3 /	1
3	1 /	BOILER 1	3#10+1#12G	3/4		2.30				2.30		3/4	3#10+1#12G	BOILER 2		
5	√з	o	-	-			2.30				2.30	-	-		/30	
7		SHUNT TRIP												SHUNT TRIP		
9	3		-	-		1.30				1.30		-	-		3 /	1
11] /	HWP-1	3#12+1#12G	3/4			1.30				1.30	3/4	3#12+1#12G	HWP-2		
13	2	o	-	-	1.30				1.30			-	-		20	
15	20	EXISTING	-	-						0.42		3/4	2#12+1#12G	<i>EPO</i>	20	7
17	20	EXISTING	-	-								-	-	EXISTING	20	1
19	20	EXISTING	-	-								-	-	EXISTING	20	2
21	20	EXISTING	-	-								-	-	EXISTING	20	2
23	20	EXISTING	-	-								-	-	EXISTING	20	1
25	20	GAS DETECTOR	3#12+1#12G	3/4	0.20				1.70			3/4	2#12+1#12G	UH-A	20	Ľ
27	20	SPARE	-	-								-	-	SPARE	20	1
29	20		2#12+1#12G	3/4			0.30					-	-	SPARE	20	3
		SUBTOTALS					3.90		5.30	4.02	3.60			SUBTOTALS		
		TOTAL LOADS			KVA								LIGHTING:	0.00 KVA		
				7.6 KVA PHA								RE	CEPTACLE:			
						PHA:			KITCHEN					0.00 KVA		
		TOTAL CONN. LOAD			KVA		A .						23.30 KVA			
		TOTAL DEMAND LO	DAD	24.2	KVA	67	Α						POWER:	0.92 KVA		
													TOTAL:	24.22 KVA		

LIGHTING FIXTURE SCHEDULE											
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#							
A	PENDENT CEILING MOUNTED	31W LED 120V	CHAIN HUNG 1'x4' LED LIGHTING WITH NORMAL LENS AND (2) 5' CHAINS AND "V" HOOKS.	<i>MANUFACTURER:</i> PHILIPS DAYBRITE LBX-40L-835-UNV-FXR-126-UD							
EM	PENDENT CEILING MOUNTED	31W LED 120V	SAME AS FIXTURE "A" EXCEPT WITH INTEGRAL BATTERY PACK.	MANUFACTURER: PHILIPS DAYBRITE LBX-40L-835-UNV-FXR-126-UD EMLED							
H ⊘ ⊘ <i>EXIT</i>	WALL/ CEILING SURFACE	1 – 5W UNV.	6" L.E.D. TYPE EXIT LIGHT, STEEL HOUSING, GREEN LETTERS. NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SELF POWERED MODEL WITH 90 MINUTE EMERGENCY BATTERY PACK.	ASTRALITE CAT.# ST-1/1C/U-G-W-EM							



WORK NOTES:

- 1) CIRCUIT EXIT LIGHTS AHEAD OF ANY SWITCHING.
- WIRE LIGHT FIXTURE CIRCUIT MADE SPARE BY DEMO WORK. COORDINATE FIXTURE LOCATIONS WITH MECHANICAL/PLUMBING CONTRACTOR.
- REPLACE EXISTING 18 POLE PANELBOARD WITH NEW 120/208V, 100 AMP. 3 PHASE, 4 WIRE, PANEL WITH A 100 AMP MAIN CIRCUIT BREAKER WITH 30 POLE PANEL. CONTRACTOR SHALL EXTEND ALL CIRCUITS WHICH REMAIN ACTIVE AFTER DEMOLITION WORK TO NEW PANEL.
- 4 ALT -MC-1: PROVIDE 3#12+1#12G IN 3/4"C TO SBD CIRCUIT MADE SPARE BY DEMO WORK. PROVIDE A 3-POLE 30 AMP BREAKER AT THE PANEL.
- (5) <u>ALT -MC-1:</u> WIRE AND INSTALL VFD TO HWP-3,4
- 6 WIRE AND INSTALL VFD TO HWP-1,2

KEY PLAN (F101) 66-19-04-03-0-007-015 06/01/2022 SED ADDENDUM #1 03/04/2022 PROGRESS SET DATE ISSUED TO SHEET SIZE DRAWING NO. 30"x42" DRAWN BY BGA CHECKED BY FILE NO. 22468.00 BGA