

ROCKFORD BOARD OF EDUCATION INVITATION FOR BID ON SUPPLIES, MATERIALS, EQUIPMENT OR SERVICES FOR SCHOOL DISTRICT NO. 205 ROCKFORD, ILLINOIS

IFB No. 16-44 Roosevelt Community Education Center Boiler Replacement

DATE: Tuesday, March 22, 2016

RE: ADDENDUM NO. 1

To All Bidders:

Attached are modifications, clarifications and/or corrections for the Project Manual and are hereby made a part of the contract documents. Please attach this addendum to the Project Manual(s) in your possession. Please note the receipt of this addendum on the bid form. Bidders shall review changes to all portions of this work as changes to one portion may affect the work of another.

Refer all questions relative to the business aspect, Instructions to Bidders, Special Conditions, and questions concerning the technical aspect of the documents to the Purchasing Process Manager by email at tamara.pugh@rps205.com.

ROOSEVELT HIGH SCHOOL BOILER REPLACEMENT ROCKFORD PUBLIC SCHOOLS 205 ROCKFORD, ILLINOIS

LARSON & DARBY GROUP

ARCHITECTS-ENGINEERS-PLANNERS

4949 Harrison Avenue, Suite 100 815/484-0739 P. O. Box 5207, Rockford, IL 61125-0207 FAX 815.229.9867

TO: ALL BIDDERS

RE: ADDENDUM #1

Changes to Bidding Documents Dated March 10, 2016

PROJECT:

ROOSEVELT HIGH SCHOOL

BOILER REPLACEMENT

ROCKFORD PUBLIC SCHOOLS 205

ROCKFORD, ILLINOIS

PROJECT NO .:

25227

DATE:

March 22, 2016

Please attach this Addendum to the Project Manual and Drawings for the referenced project. Take the changes to the Project Manual and Drawings into consideration in preparing your Bid.

Bidders shall make note in writing on Bid Form that this Addendum has been taken into consideration. Failure to do so may be sufficient cause to reject the Bid.

LARSON & DARBY GROUP

Alephen M. Nelson (JWO)
Stephen M. Nelson

This Addendum consists of 1 page, plus materials itemized herein.

I. ADDITIONS OR CHANGES TO THE DRAWINGS:

DRAWINGS:

- A. The Project Drawings, which were issued March 10, 2016, but inadvertently not posted to bid document distribution offices, are issued herewith:
 - CS Cover Sheet
 - MD1.1 Mechanical Demolition Plans
 - M1.1 Mechanical New Work Plans
 - M1.2 Mechanical Ventilation Plan.
 - E1.0 Electrical Lighting Plan
 - E2.0 Electrical Power Plan

END OF ADDENDUM #1

L&D #25227 ADDENDUM #1 Page-1

On & Darby Group Bots Engineers Interiors Harrison Ave., Sulte 100, P.O.Box 5207 Rockford, IL. 61125 Tel (815) 484-0739 Fox (815) 229-9867

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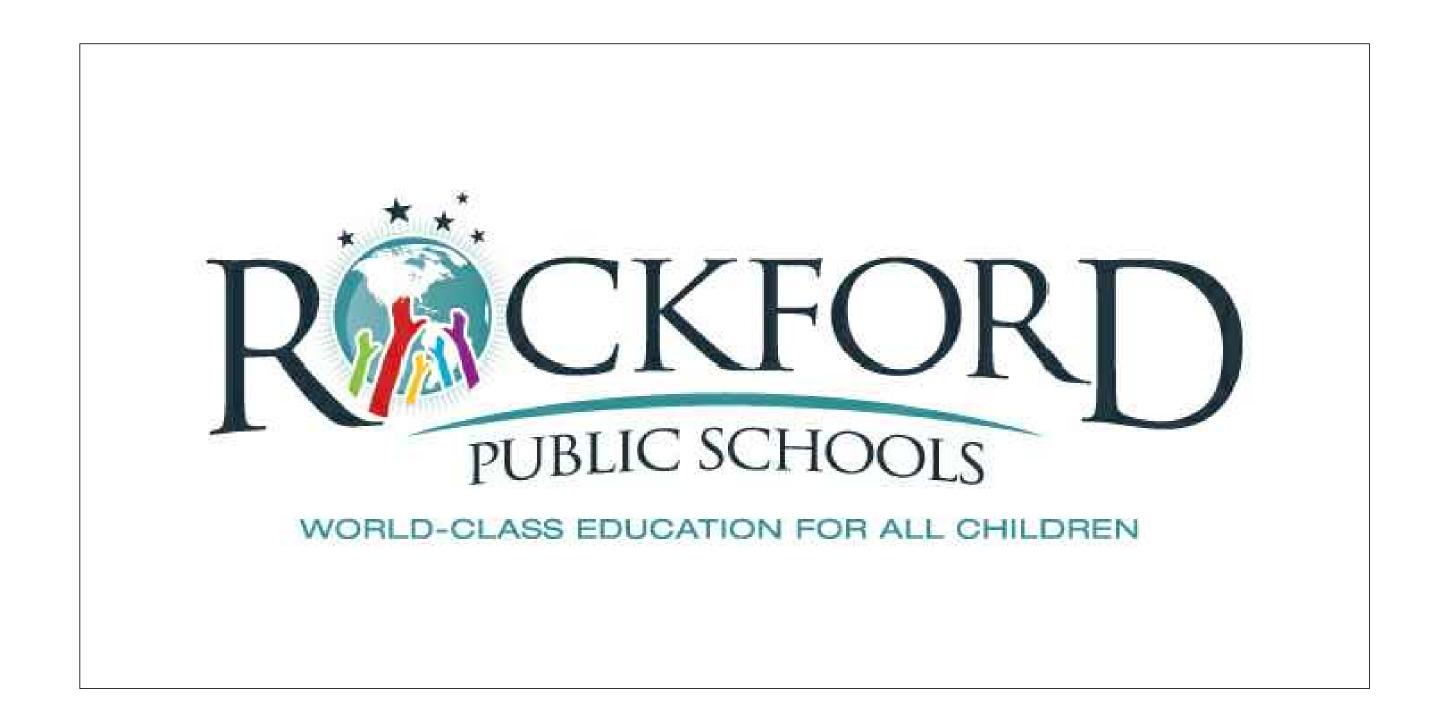
OOSEVELT HIGH SCHOOL DILER REPLACEMENT - ROCKF

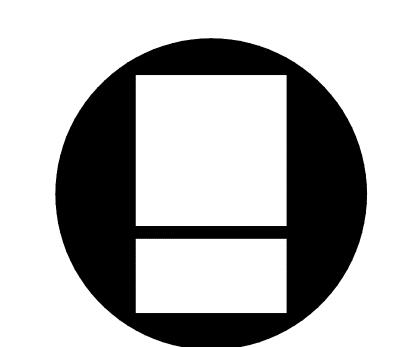
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NUMBER ISSUED FOR: BID IUMBER DRAWN APF

ROOSEVELT HIGH SCHOOL

BOILER REPLACEMENT ROCKFORD, ILLINOIS





Larson & Darby Group

4949 Harrison Avenue Suite 100

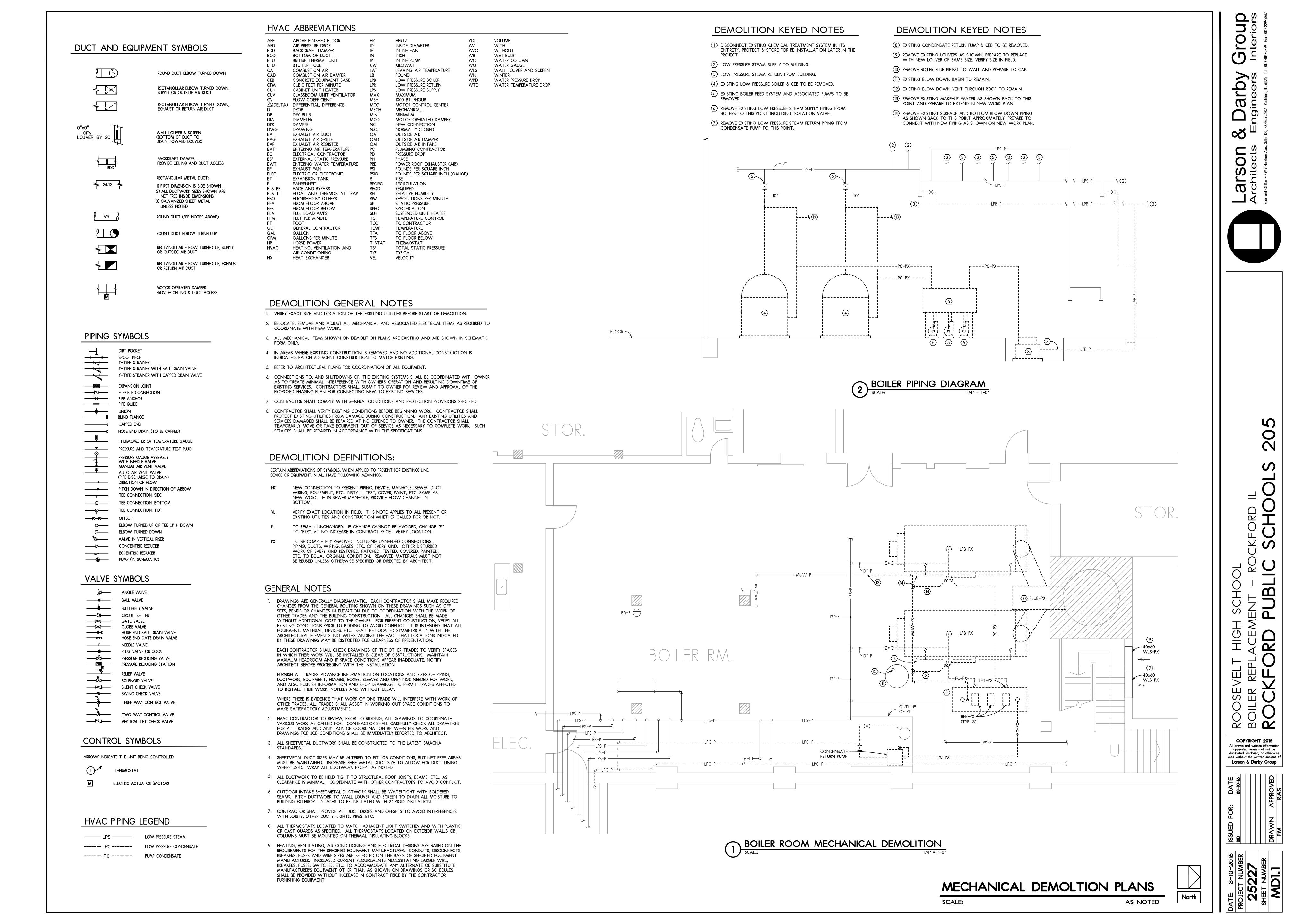
Architects Engineers Interiors

Rockford, Illinois

ISSUED FOR: BID

MARCH 10, 2016

ABBREVIATIONS			SH	IEET INDEX		
	NO.	DESCRIPTION NO. DESCRIPTION		CODE SUMMARY	COMPLIANCE STATEMENT	SITE LOCATION MAP
ALUM. ALUMINUM ACOUST. ACOUSTICAL CLG. CEILING CONT. CONTINUOUS	CS	COVER SHEET SHEET INDEX		Building Code: 2012 International Building Code (IBC)	I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN	
BTM. BOTTOM DTL. DETAIL DWG. DRAWING EA. EACH F.B.O. FURNISHED BY	MD1.1	MECHANICAL MECHANICAL DEMOLITION PLANS		Other Codes: 2012 International Mechanical Code 2001 NFPA National Electrical Code 2004 Illinois Plumbing Code 2012 International Fire Prevention Code	COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT [410 ILCS 25] AND THE ILLINOIS ACCESSIBILITY CODE, (71 IL. ADM. CODE 400). ADA HAS NEITHER A SUBMITTAL REVIEW, NOR AN INSPECTION PROCESS TO INTERPRET DISABILITY LAWS. AS PART OF THE CIVIL RIGHTS ACT	
F.B.O. FURNISHED BY OWNER GALV. GALVANIZED HDWR. HARDWARE HR. HOUR	M1.1 M1.2	MECHANICAL NEW WORK PLANS MECHANICAL VENTILATION PLAN		Accessibility Code: 1997 Illinois Accessibility Code (IAC) Type of Project: Renovation Use & Occupancy Class: E (Educational)	AND NOT A CODE, ADA COMPLIANCE CAN NOT BE CERTIFIED TO. TO THE BEST OF MY ABILITY AND KNOWLEDGE, I HAVE INTERPRETED AND ATTEMPTED TO COMPLY WITH ALL ADA STANDARDS, 42 U.S.C. SECTION 12101 ET SEQ. THIS IS PERCEIVED COMPLIANCE, NOT CERTIFICATION.	
INSUL. INSULATION MATL. MATERIAL		ELECTRICAL		Type of Construction: IB Fire Suppression: Non-Sprinklered		
MTL. METAL N.I.C. NOT IN CONTRACT O.C. ON CENTER OPNG. OPENING	E1.0 E2.0	ELECTRICAL LIGHTING PLAN ELECTRICAL POWER PLAN		Allowable Height: 5-Stories at 160' (Table 503) Actual Height: ? (at tallest point)	SEALS	
OPNG. OPENING RTG. RATING SPEC. SPECIFICATION STD. STANDARD STL. STEEL U.N.O. UNLESS NOTED OTHERWISE W/ WITH				Allowable Area: Unlimited (Table 503) Actual Area: ? s.f. Exit Access Travel Distance (1016.1) without Sprinkler System: 200' Fire-resistance Rating Requirements: (Table 601) Structural Frame: 2 hr. Bearing Walls - Exterior: 2 hr.	STEPHEN M. NELSON NELSON ACTUAL DEL DARCHITICALINA NELSON ACTUAL DEL DARCHITICAL NELSON ACTUAL DEL DARCHITICAL NELSON NEL	
MATERIALS				Bearing Walls – Interior: 2 hr. Non-bearing Walls & Partitions – Exterior: 1 hr. Non-bearing Walls & Partitions – Interior: 0 hr. Floor Construction – Beams & Joists: 2 hr. Roof Construction – Beams & Joists: 1 hr.	EXPIRES:	
CMU CONCRETE EARTH				Exterior Wall Ratings base on Separation Distance (Table 602) X < 5', IB, Group E: 1 hr. 5' \(\leq \text{ X < 10'}, \text{ Group E:} 1 hr. 10' \(\leq \text{ X < 30'} \), Group E: 1 hr. X > 30', Group E: 0 hr.	STEPHEN M. NELSON LICENSED ARCHITECT	
GRAVEL (GRANULAR FILL)				Corridor Fire-resistance Ratings (1018.1) without Sprinkler System: 1 hr.	DATE	
STEEL WOOD BLOCKING (LUMBER)				Elevator Machine Room (3006.4): N/A Shaft Ratings (708.4): Elevator shaft: N/A Stair shafts: N/A	Larson & Darby Group Design Firm Registration Number: 184–000280 (1–012449) (62–031399)	
FINISHED WOOD TRIM PLYWOOD				Incidental Use Areas (509): Furnace rooms: 1 hr.		
GYP. WALLBOARD				Boiler Rooms: 1 hr. Incinerator Rooms: 2 hr.		
BATT INSULATION				- -		
RIGID INSULATION						



├---LPS-P ---

MECHANICAL NEW WORK PLANS

SCALE:

AS NOTED

2" LPR — 1

+-----

<u>BFS-1</u>

STEAM BOILER (SB) SCHEDULE							
PLAN NO.	SB-1	SB-2					
LOCATION	BOILER PLANT	BOILER PLANT					
MANUFACTURER	CLEAVER BROOKS	CLEAVER BROOKS					
MODEL	CBLE-150	CBLE-150					
TYPE	FIRE TUBE	FIRE TUBE					
OPERATING PRESSURE (PSI)	10	10					
FIRING INPUT (MBH)	6,123	6,123					
STEAM CAP. (LBS/HR)	5,175	5,175					
BOILER HP	150	150					
FUEL	N. GAS	N. GAS					
FIRING STAGES	FULL MOD.	FULL MOD.					
ELECTRICAL	208/3/60	208/3/60					

1, 2, 3

NOTES: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. 1. PROVIDE STANDARD TRIM AS SPECIFIED. 2. PROVIDE FORCED DRAFT BURNER AND 5 PSI GAS TRAIN. 3. MOUNT ON 4" CEB.

1, 2, 3

	VCP) SCHED	E VACUUM PUMP ULE
	PLAN NO.	VCP-1
Ī	LOCATION	BOILER RM
	SERVICE	BUILDING
₩ [MANUFACTURER	B&G
SENERAL	MODEL	50VCD
	TYPE	DUPLEX
	CAPACITY (EDR)	45,000
咒	MATERIAL	CAST IRON
RECIEVER	VOL (GAL)	100
₩ [INLET SIZE (IN)	3
	QUANTITY	2
	MOUNTING	VER
ا ہے	GPM	60
PUM	DISCH. PRESS. (PSI)	25
	HP/BHP	2
	VOLTS/PHASE	208/3
	RPM	3500
<u>₹</u>	QUANTITY	2
VACUUM	CFM	18
≯│	Hg (IN)	5.5
NOTES		1, 2, 3

NOTES: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. PROVIDE WITH WATER LEVEL GAUGE & COMPOUND GAUGE.

2. PROVIDE WITH INLET STRAINER, SOLENOID VALVE, DISCHARGE VALVE, VACUUM. SWITCH, AND ANGLE THERMOMETER.

3. PROVIDE WITH CONTROL PANEL-SEE SPECS FOR REQUIREMET.

BOILER FEED WATER SYSTEM (BFS) SCHEDULE LOCATION BOILER RM BUILDING SERVICE MANUFACTURER MODEL 2.05-CMHD-2.0-C35 CAPACITY (EDR) STEEL MATERIAL VOL (GAL) 1306 INLET SIZE (IN) QUANTITY 3 MOUNTING DISCH. PRESS. (PSI) VOLTS/PHASE 208/3 RPM 3,500 NOTES 1, 2, 3, 4, 5

- NOTES: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

 1. PROVIDE WITH 3 VALVE BY-PASS AROUND MAKEUP VALVE.

 2. PROVIDE WITH AIR GAP FITTING ON MAKEUP ASSEMBLY.

 3. PROVIDE WITH LOW WATER CUTOFF, GUAGE GLASS, DIAL THERMOMETER &
- DISCHARGE PRESSURE GAUGE. 4. PROVIDE INLET BASKET STRAINER AND BUTTERFLY SUCTION VALVE. 5. PROVIDE WITH CONTROL PANEL-SEE SPECS FOR REQUIREMENT.

STEAM TRAP SCHEDULE				
PLAN NO.	ST-1 & 2			
SERVICE	S. HEADER			
MANUFACTURER	SPIRAX SARCO			
MODEL	FT-15			
TYPE	F&T			
CONNECTION SIZE	1-1/2"			
MAX PRESSURE PSI	15			
CAPACITY (LBS/HR)	910			

NOTES: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. 1. CAPACITY IS MEASURED IN # / HOUR AT 1/2 PSI PRESSURE DIFFERENTIAL.

SWING SHOWN FOR REFERENCE. COORDINATE EXACT BOILER LOCATION TO ALLOW FOR PROPER SERVICE CLEARANCE PER MFR $\overline{\langle 2 \rangle}$ terminate automatic surface blow down system

1) OUTLINE OF SERVICE CLEARANCE, TUBE PULL OUT, AND DOOR

KEYED NOTES

(PROVIDED BY BOILER MFR) AT EXISTING BLOW DOWN BASIN.

(3) EXTEND BOTTOM AND SURFACE BLOW DOWN AS SHOWN AND CONNECT TO EXISTING BLOW DOWN SEPARATOR PIPING.

TERMINATE SLOW & QUICK OPEN BOTTOM BLOW DOWN PIPING AT EXISTING BLOW DOWN BASIN.

roof 🦳

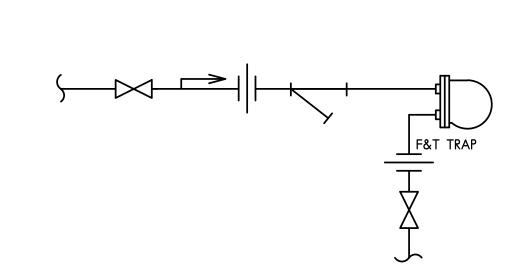
5 EXISTING CONCRETE HOUSE KEEPING PAD. MODIFY AS REQUIRED TO MATCH NEW BOILER FOOT PRINT.

6 PROVIDE & INSTALL NEW STEAM TRAP AT EXISTING HEADER AS SHOWN. (TYP.2)

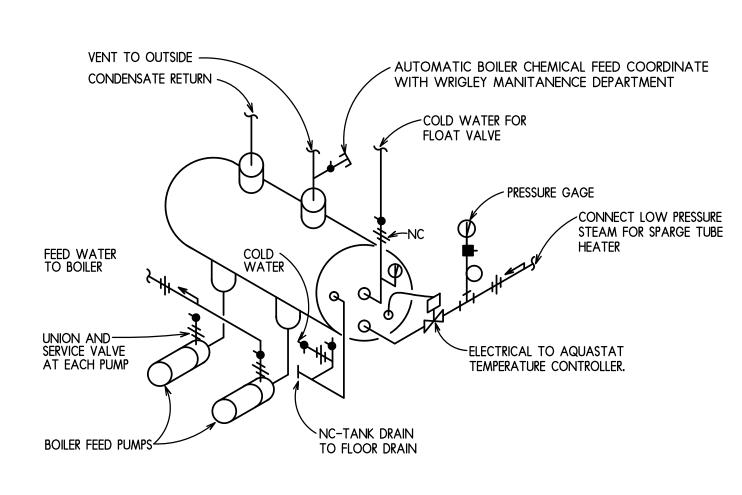
 $\overline{\text{Z}}$ existing in floor blow down basin and vent piping thru roof.

 $raket{8}$ BOILER WATER LEVEL (VERIFY WITH BOILER MANUFACTURER). (9) BOILER FEED WATER CONTROL VALVE.

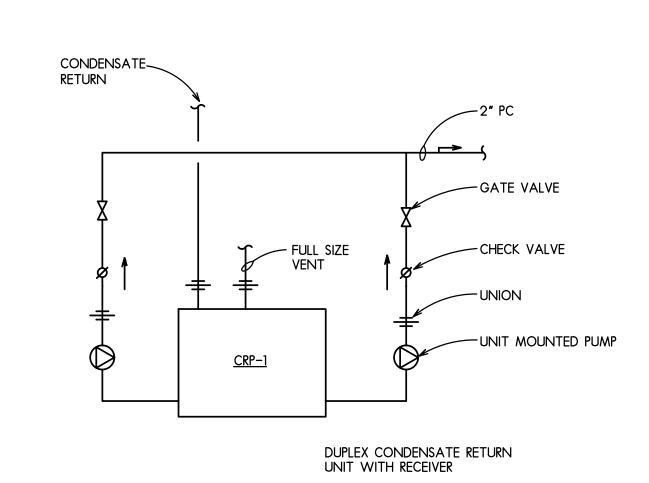
(10) BOILER EMERGENCY SHUT OFF SWITCH LOCATED AND WIRED PER AHJ REQUIREMENT.



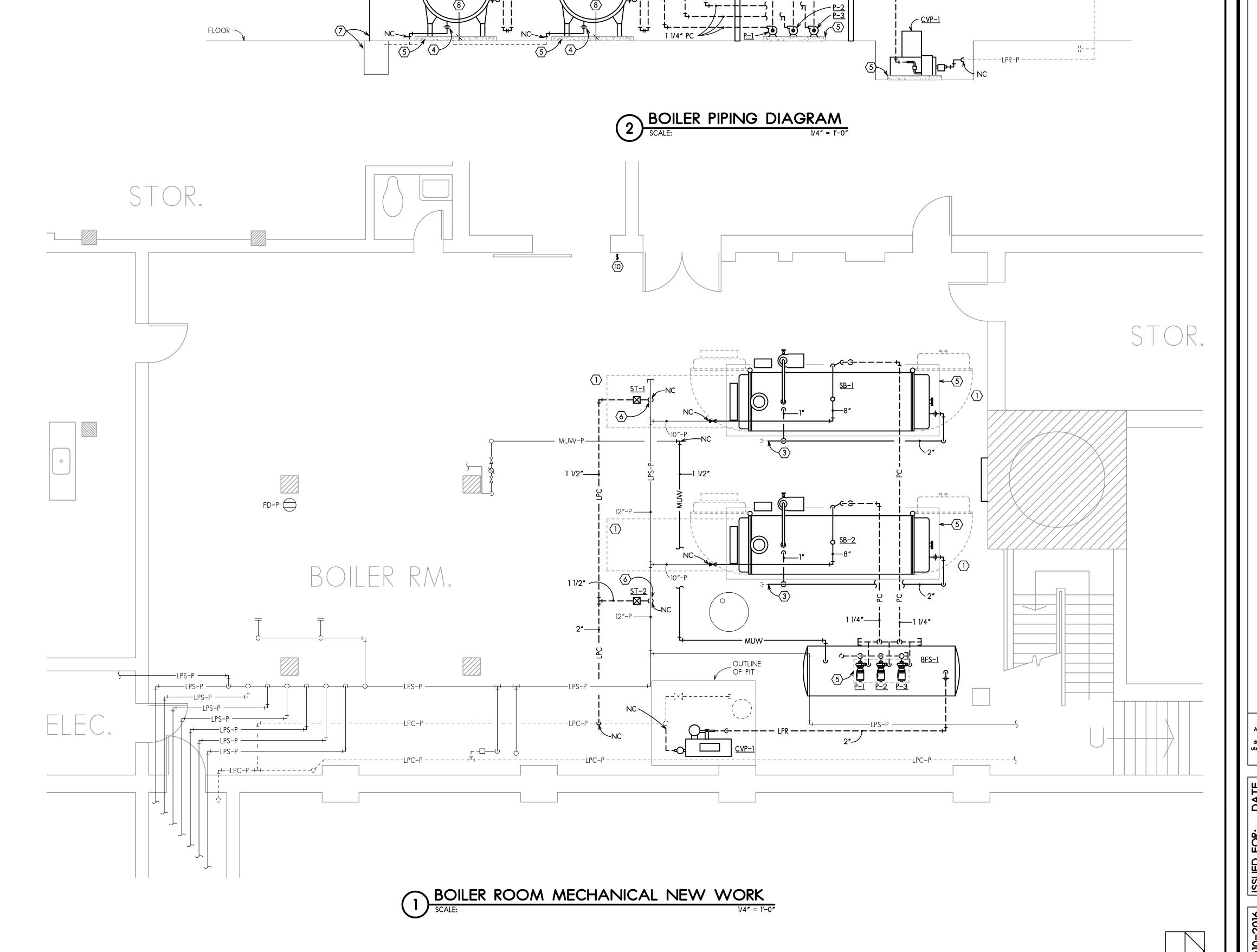
3 STEAM TRAP CONNECTION DETAIL



BOILER FEED TANK AND PUMPS



CONDENSATE RECEIVER PIPING DETAIL



 $\frac{1}{ST-2}$

1- 1/2" /

10" LPS-

1 1/2" /

____10" LPS

(1) 12" BOILER FLUE STACK WITH MOD. SEE DETAIL FOR TERMINATION. (2) 36"x36" OUTSIDE AIR DUCT DROP TO 24" ABOVE BOILER.

(3) INTERLOCK MOTOR OPERATED DAMPER WITH BOILER OPERATION.

(4) CUT NEW 30"x30" OPENING IN EXISTING ROOF TO INSTALL NEW POWER ROOF EXHAUSTER AND CURB. FLASH AROUND NEW CURB AS REQUIRED. FIELD COORDINATE AND LOCATE EXACT LOCATION WITH EXISTING STRUCTURE.

(5) CUT NEW 36"x36" OPENING IN EXISTING ROOF TO INSTALL NEW C/A INTAKE HOOD AND CURB. FLASH AROUND NEW CURB AS REQUIRED. FIELD COORDINATE AND LOCATE EXACT LOCATION WITH EXISTING STRUCTURE.

(6) CONNECT NEW DUCTWORK TO NEW LOUVERS, PROVIDE MOTORIZED DAMPER IN DUCTWORK INTERLOCKED TO PRE-1 FOR SUMMER VENTILATION.

POWER ROOF EXHAUSTER (PRE) SCHEDULE PLAN NO. BOILER ROOM SUMMER VENTILATION SERVICE MANUFACTURER MODEL 270C9B CFM 7,200 ESP (IN WC) 0.5 HP/BHP 2.0/1.6 13.9 MAX SONES VOLTS/PH 208/3 365 WEIGHT (LBS) NOTES 1, 2, 3

NOTES: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. 1. PROVIDE MANUFACTURER'S INSULATED PREFAB ROOF CURB. MIN. 14" HIGH 2. CONTROL WITH T-STAT.

3. PROVIDE BACKDRAFT DAMPER.

TYPE B, DOUBLE WALL, AGA AND UL LISTED, GAS VENT. ACCEPTABLE MANUFACTURERS: DURA-VENT, SELKIRK, METALABESTOS, VAN PACKER. METALBESTOS MODEL QC.

— gas vent $\langle 1 \rangle$

/ INSULATION

SHEET METAL COLLAR AT CLG.

- CONE ROOF FLASHING (COORDINATE WITH

SPECIFIC ROOFING SYSTEM)

(SEE STRUCTURAL DRAWINGS)

- NON-COMBUSTIBLE CEILING (WHERE APPLICABLE)

2 SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTE: ENTIRE INSTALLATION

OF NFPA AND APPLICABLE

BUILDING CODE.

STORM COLLAR -

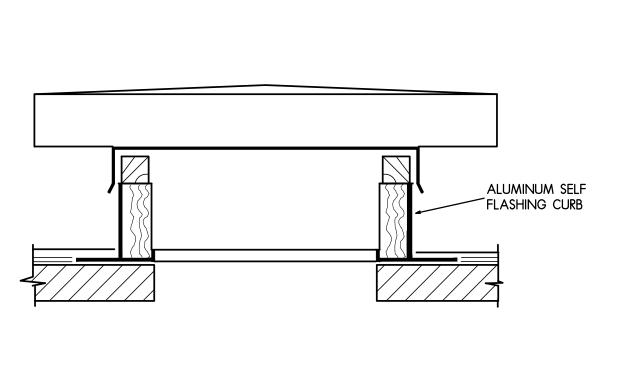
WELDED TO STACK

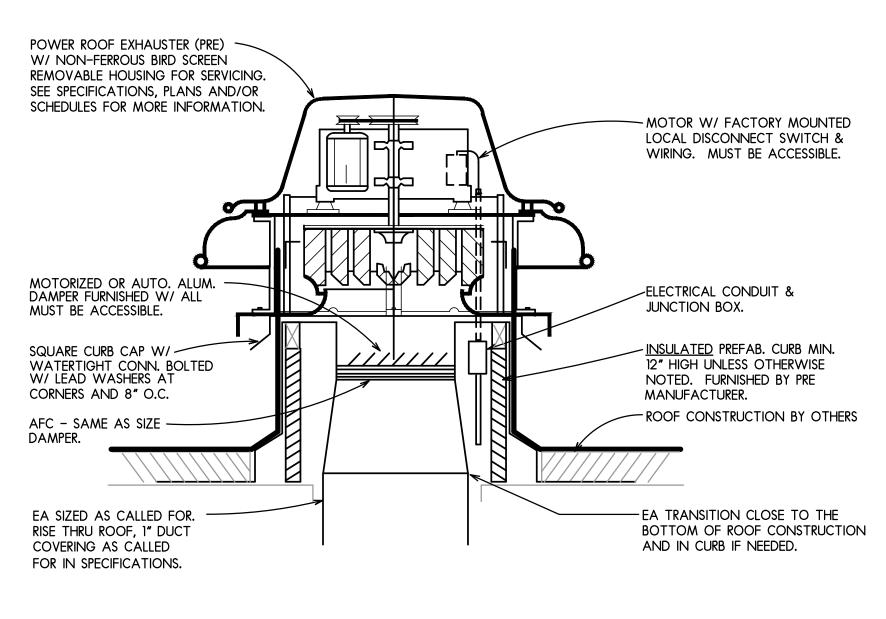
ROOFING MATERIALS —

STACK (FLUE) DIAMETER 1 (SEE FLOOR PLAN AND HEATER DETAILS)

CONTINUOUSLY

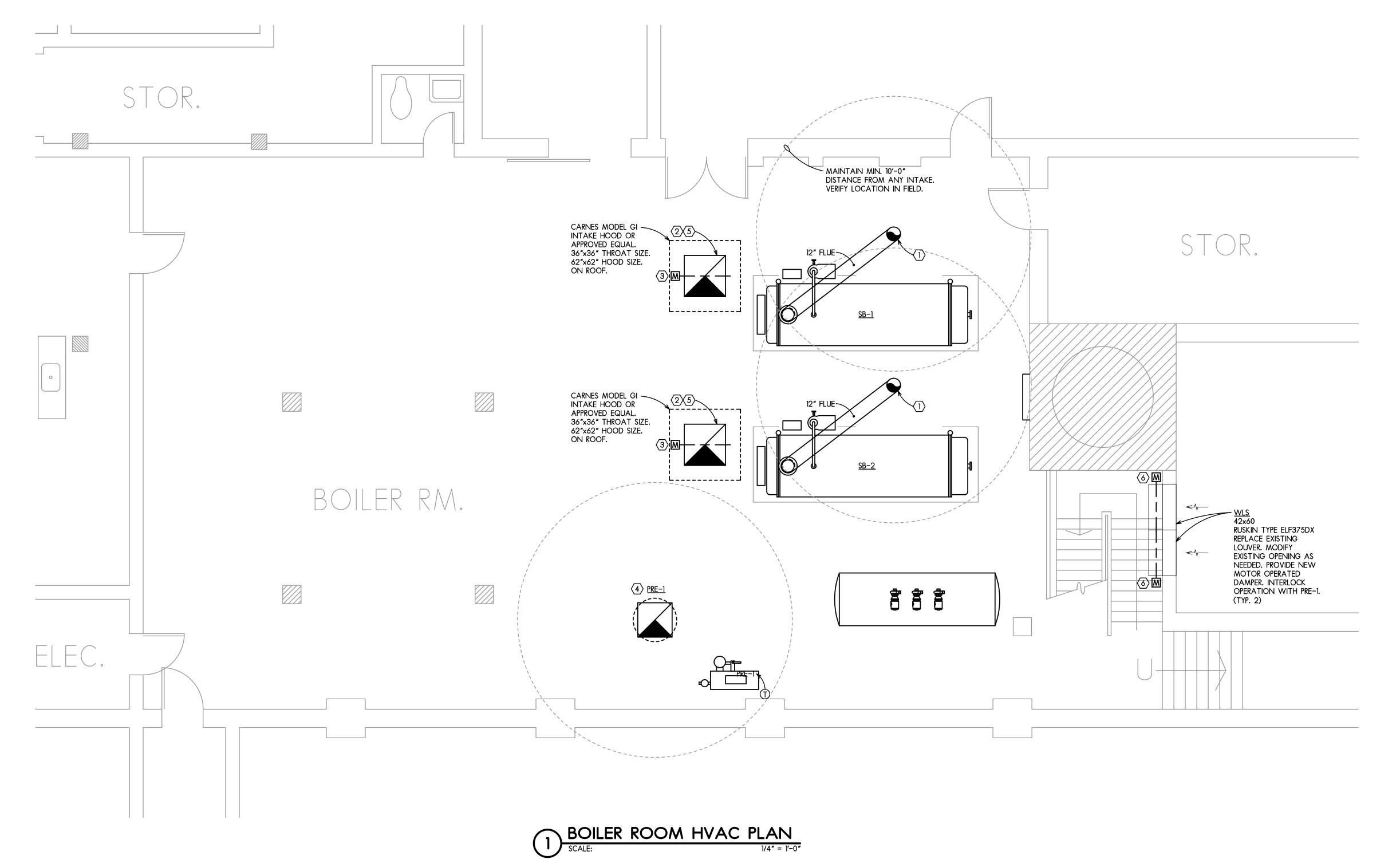
SHALL MEET THE REQUIREMENTS





POWER ROOF EXHAUSTER (PRE) DETAIL

NTS



SCALE:

1/4" = 1'-0"

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KEY PLAN

ELECTRICAL LIGHTING PLAN

