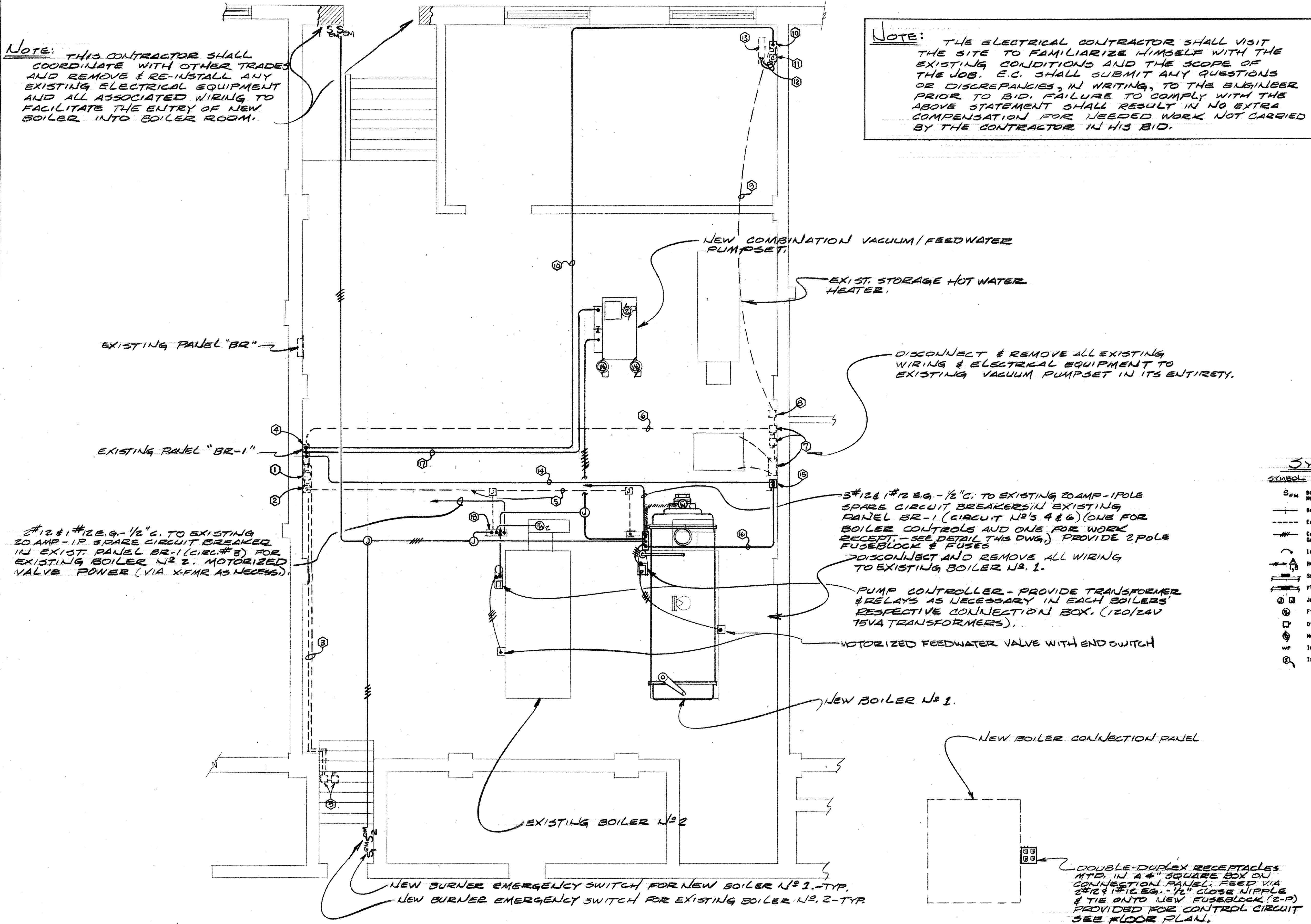


GENERAL NOTES

- 1 Existing 100 Amp, 3P, fusible disconnect switch, fused at 90 Amps, fed from existing panel BR-1 (Item No. 4) circuit No. 18 (100A/3P BR-1) feeding existing boiler No. 1, to be removed.
- 2 Existing 100 Amp, 3P, fusible disconnect switch, fused at 90 Amps - tapped-off line of Item No. 1 - feeds existing boiler No. 2 - to remain and be re-fed - remove "tap" and re-feed from panel BR-1 (Item No. 4) circuit No. 18 - re-feed with 3 #3 (CU) XHHW-1 1/4".
- 3 Remove 2-3/4" conduits, 2-3P disc. switches, and all associated wiring back to source (used as existing burner emergency switches). Take care not to damage feeder to existing boiler No. 2.
- 4 Existing panel BR-1, Westinghouse type MEB, 225 Amp M.L.O., 200Y120V.
- 5 Remove existing feeder for existing boiler No. 1 back to source. (Pull out of existing conduit with feeder for boiler No. 2.) Take care not to damage existing feeder for boiler No. 2. Feeder for boiler No. 2 to remain.
- 6 Remove existing feeders (2) to existing vacuum pumps (2) back to source. (Panel BR-1, Cts. 16 & 17).
- 7 Remove two (2) existing 60 Amp, 3P, non-fused disconnect switches and duplex fused switch/starter combination.
- 8 Existing 30 Amp-2P enclosed circuit breaker tapped-off line side of 60A-3P non-fused disconnect switch (Item No. 7) to be removed.
- 9 2/C #10 with ground romex feeding existing fuel oil return line heater to be removed.
- 10 Existing 30 Amp, 2 Pole, non-fused disconnect switch to remain and be re-fed. Replace existing 20 Amp, 2P spare breaker in existing panel BR-1 (Item No. 4) with new 30 Amp, 2 Pole circuit breaker and re-feed 30A, 2P switch with 2 #10 and 1 #10 E.G. - 3/4 inch conduit.
- 11 Existing 30 Amp, 3P contactor to remain and be re-wired completely.
- 12 Replace existing 2/C #10 romex whips (2) with 2 #10 and 1 #10 E.G. - 1/2 inch sealtight each, and rewire existing fuel oil return line heater (Item No. 13) and controls (Item No. 11).
- 13 Existing fuel oil return line heater to remain and be re-wired (both, feed and control).
- 14 4 #6 XHHW (CU) and 1 #10 (CU) Grnd. - 1 inch conduit. Tie onto one (1) 60 Amp 3 Pole circuit breaker in panel BR-1 (Item No. 4) left open from Item No. 6.
- 15 60 Amp, 3P and SH, heavy duty, fusible disconnect switch in NEMA 1 enclosure. Fused at 50 Amps with dual element fuses. Square D catalog Number H322N.
- 16 4 #6 XHHW (CU) and 1 #10 (CU) Grnd. - 1 inch conduit - tie into new boiler.
- 17 3 #10 and 1 #10 E.G. - 3/4 inch conduit. Replace 20 Amp, 3P, spare breaker in existing panel BR-1 (Item No. 4) with new 30 Amp, 3P breaker to feed new vacuum/feeder combination pumpset.
- 18 Break into existing boiler No. 2's control circuit and "series" wire new burner emergency switches and fire-O-matic switch.

NOTE: THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND THE SCOPE OF THE JOB. E.C. SHALL SUBMIT ANY QUESTIONS OR DISCREPANCIES, IN WRITING, TO THE ENGINEER PRIOR TO BID. FAILURE TO COMPLY WITH THE ABOVE STATEMENT SHALL RESULT IN NO EXTRA COMPENSATION FOR UNNECESSARY WORK NOT CARRIED BY THE CONTRACTOR IN HIS BID.

NOTE: THIS CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND REMOVE & RE-INSTALL ANY EXISTING ELECTRICAL EQUIPMENT AND ALL ASSOCIATED WIRING TO FACILITATE THE ENTRY OF NEW BOILER INTO BOILER ROOM.



#12 & 1 #12 E.G. - 1/2" C. TO EXISTING 20 AMP - 1P SPARE CIRCUIT BREAKER IN EXIST. PANEL BR-1 (CIRCUIT #3) FOR EXISTING BOILER NO. 2. MOTORIZED VALVE POWER (VIA X-FMR AS NECESSARY).

3 #12 & 1 #12 E.G. - 1/2" C. TO EXISTING 20 AMP - 1POLE SPARE CIRCUIT BREAKERS IN EXISTING PANEL BR-1 (CIRCUIT NO'S 4 & 6) (ONE FOR BOILER CONTROLS AND ONE FOR WORK RECEPT. - SEE DETAIL THIS DWG.) PROVIDE 2 POLE FUSEBLOCK & FUSES
DISCONNECT AND REMOVE ALL WIRING TO EXISTING BOILER NO. 1.

PUMP CONTROLLER - PROVIDE TRANSFORMER & RELAYS AS NECESSARY IN EACH BOILER'S RESPECTIVE CONNECTION BOX. (120/24V 15VA TRANSFORMERS).

MOTORIZED FEEDWATER VALVE WITH END SWITCH

NEW BOILER NO. 1.

NEW BOILER CONNECTION PANEL

DOUBLE-DUPLEX RECEPTACLES MTD. IN A 4" SQUARE BOX ON CONNECTION PANEL. FEED VIA 2/C #12 E.G. - 1/2" CLOSE NIPPLE & TIE ONTO NEW FUSEBLOCK (2-P) PROVIDED FOR CONTROL CIRCUIT SEE FLOOR PLAN.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
S.E.M.	Burner emergency switch with red plate marked "Burner Emergency Switch" - Mtd. 6'-0" A.F.F. to G.
---	Branch circuit wiring run exposed.
- - -	Existing branch circuit wiring.
---	Crosshatching indicates number of conductors required if more than two. Ground conductor not indicated.
⌋	Indicates branch circuit turning down or tie into equipment.
---A---	Home run to panel - "A" indicates panel - 1, 3 indicates circuit numbers.
⌋	Surface mounted panelboard - Mtd. 6'-6" A.F.F. to top.
⌋	Flush mounted panelboard - Mtd. 6'-6" A.F.F. to top.
⊠	Junction box size as required or as noted.
⊠	Fire-O-Matic switch - Mtd. over burner.
⊠	Disconnect switch - size and configuration as noted.
⊠	Motor with rating in horsepower.
w.p.	Indicates weatherproof item.
Ⓝ	Indicates note number - see general notes.

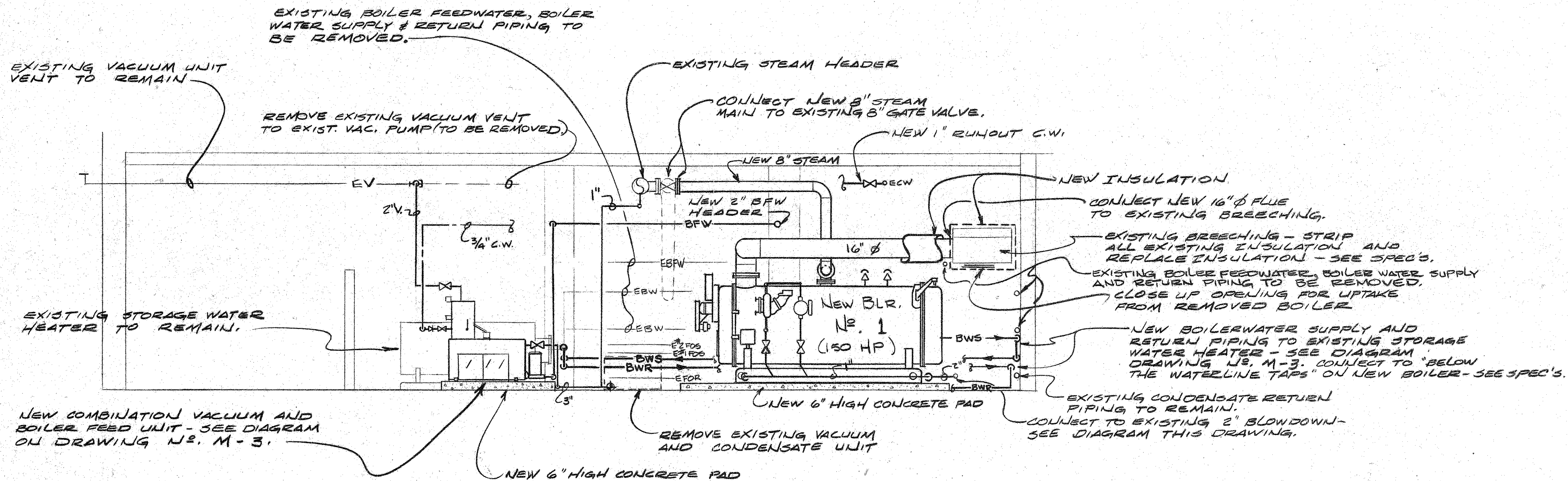
FLOOR PLAN - BOILER ROOM - ELECTRICAL
SCALE: 1/4" = 1'-0"

WORK RECEPTACLE DETAIL
NO SCALE

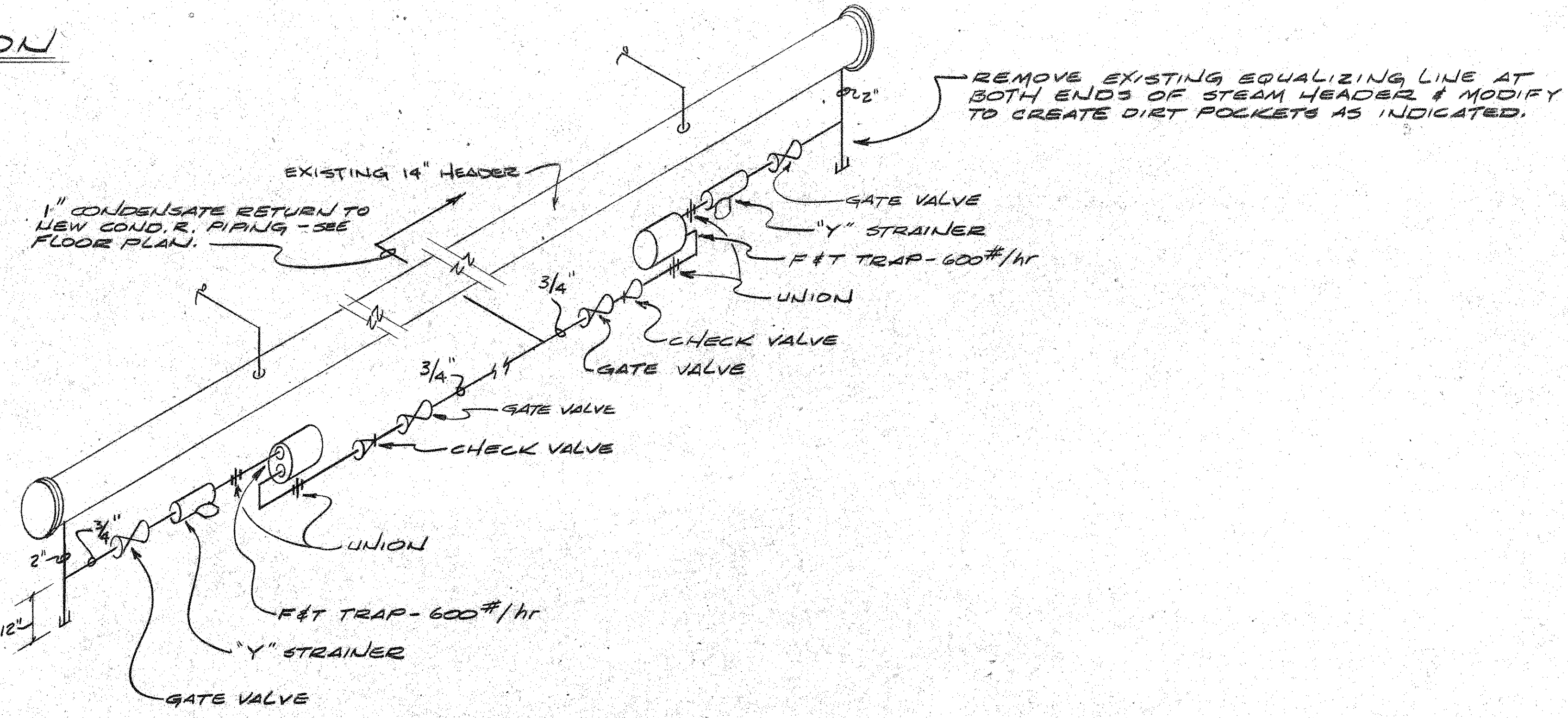
FLOOR PLAN AND DETAILS - ELEC.

F.N. ZAINO & ASSOCIATES
Consulting Engineers 1040 Cranston Street, Cranston, Rhode Island 02920

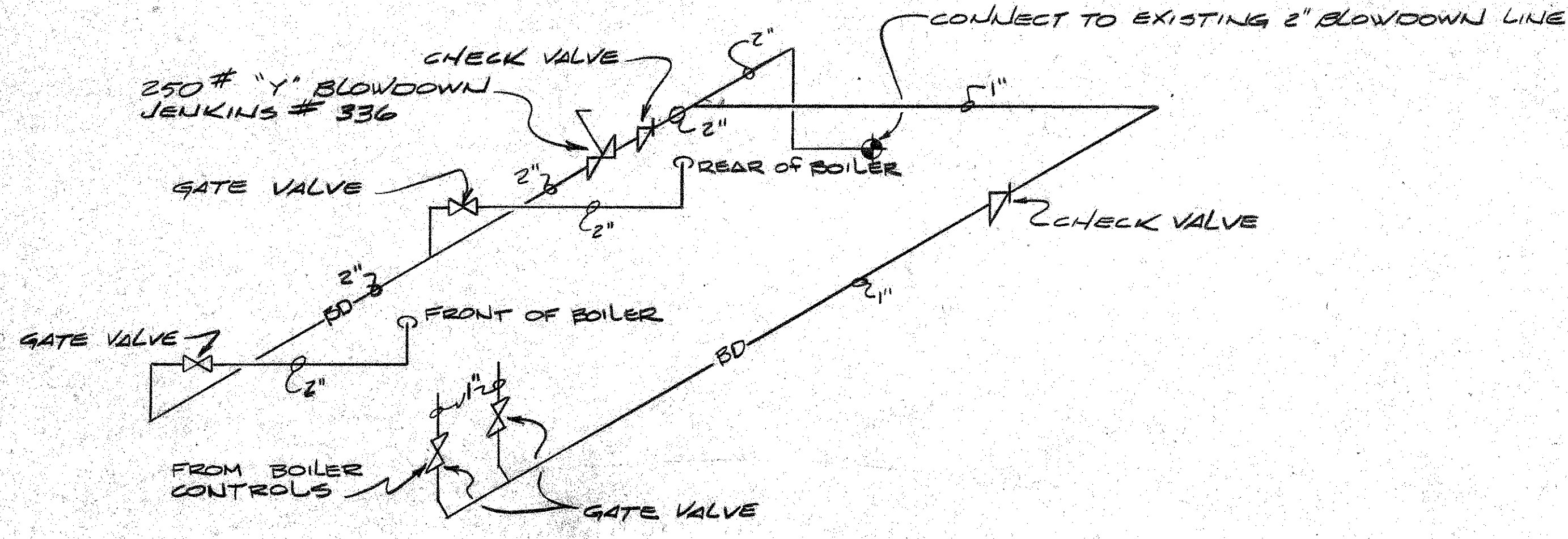
	BOILER REPLACEMENT - at the - ALDRICH JUNIOR HIGH SCHOOL WARWICK SCHOOL DEPARTMENT WARWICK, RHODE ISLAND	
	Date SEPT. '85 Scale AS NOTED	Drawn by JFP Job No. 102-4



RIGHT SIDE OF BOILER - ELEVATION
 SCALE: 1/4" = 1'-0"





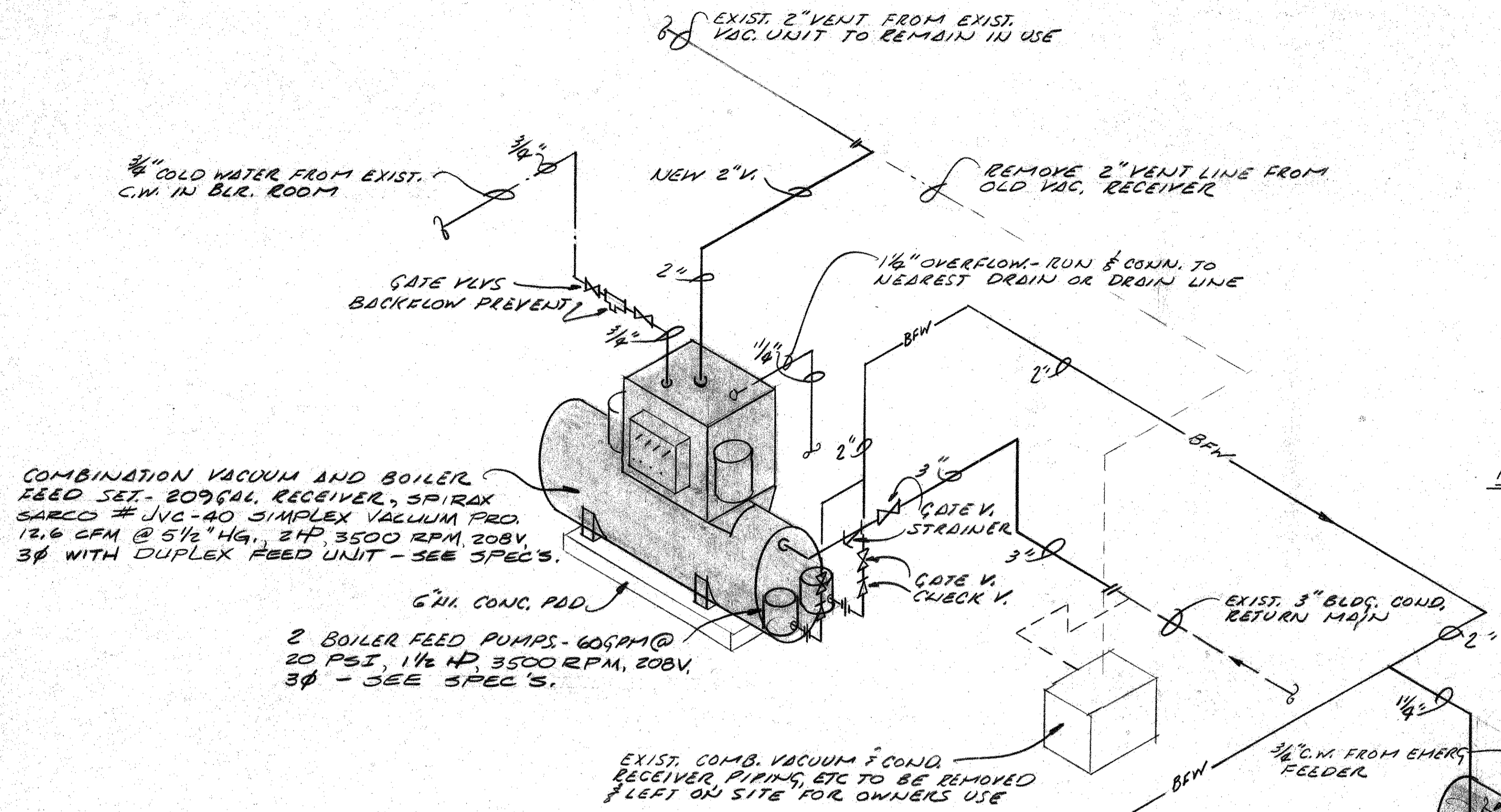
CONDENSATE RETURN PIPING DIAGRAM
 (AT EXISTING 14" STEAM HEADER)
 NO SCALE



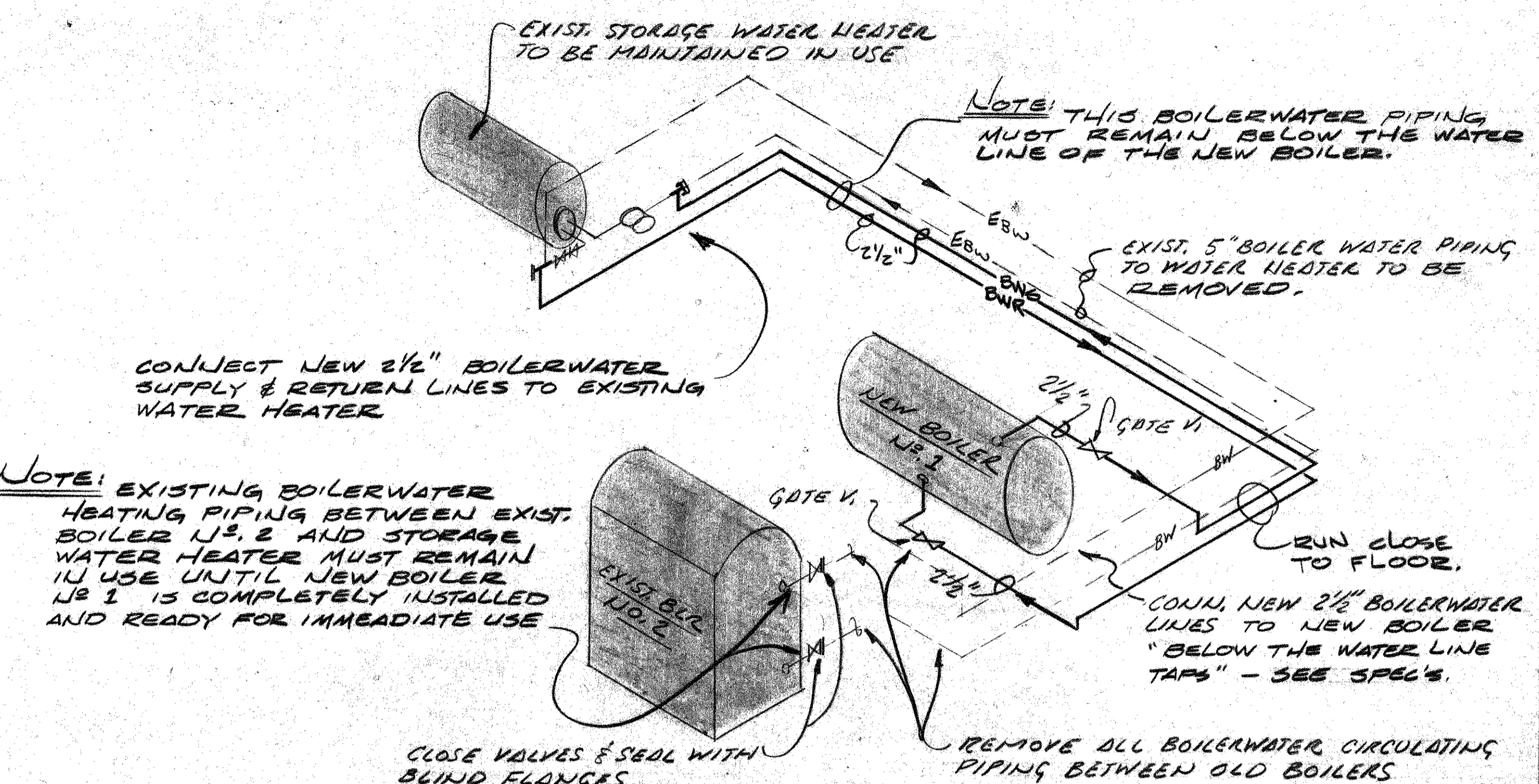
BOILER BLOWDOWN PIPING DIAGRAM
 NO SCALE

DETAILS AND DIAGRAMS-MECH.

 F.N. ZAINO & ASSOCIATES Consulting Engineers 1040 Cranston Street, Cranston, Rhode Island 02920		
 FRANK N. ZAINO 2847 REGISTERED PROFESSIONAL ENGINEER	Boiler Replacement at the ALDRICH JUNIOR HIGH SCHOOL WARWICK SCHOOL DEPT. WARWICK, RHODE ISLAND	
	Date SEPT. 85	Drawn by JFP
Scale AS NOTED	Job No. 1812-4	


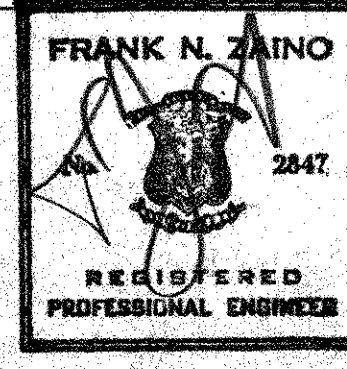


CONDENSATE-VACUUM & BOILER FEED SYSTEM PIPING DIAGRAM
No SCALE



BOILERWATER & WATER HEATER PIPING DIAGRAM
No SCALE

DETAILS AND DIAGRAMS-MECH.

 F.N. ZAINO & ASSOCIATES Consulting Engineers 1040 Cranston Street, Cranston, Rhode Island 02920	
 FRANK N. ZAINO 2847 REGISTERED PROFESSIONAL ENGINEER	Title BOILER REPLACEMENT at the ALDRICH JUNIOR HIGH SCHOOL WARWICK SCHOOL DEPART. WARWICK, RHODE ISLAND
	Date SEPT. '85 Scale AS NOTED