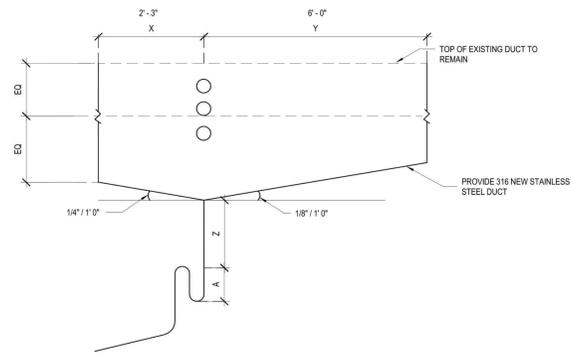
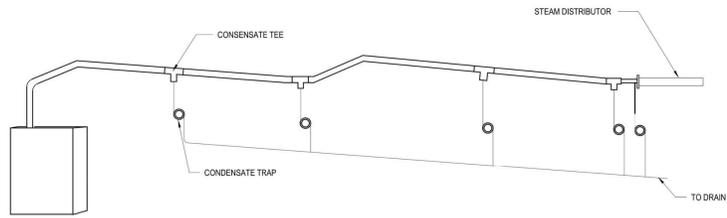


X = DISTANCE FROM LINED DUCT TO NOZZLE
 Y = DISTANCE FROM NOZZLE TO END OF UNLINED DUCT
 Z = 12" MINIMUM DROP TO TOP OF P-TRAP
 A = 6" MINIMUM P-TRAP

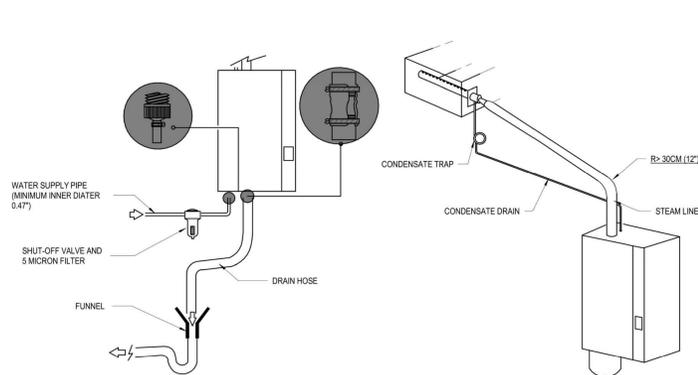


12 HUMIDIFIER DUCT
 SCALE: NTS



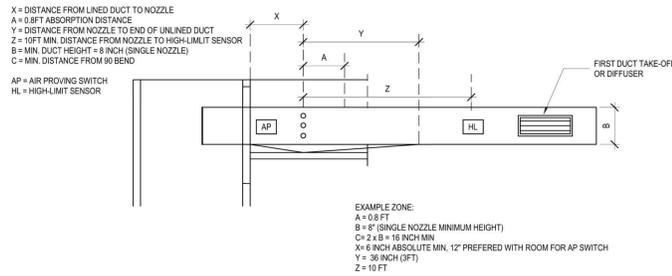
- CONDENSATE TEE
 - NEED A CONDENSATE TEE EVERY 15FT
 - INSTALL CONDENSATE TEE AT LOW POINTS
 - INSTALL CONDENSATE TEE BEFORE DISTRIBUTOR

11 LONG STEAM LINE WITH LIMITED CEILING SPACE
 SCALE: NTS



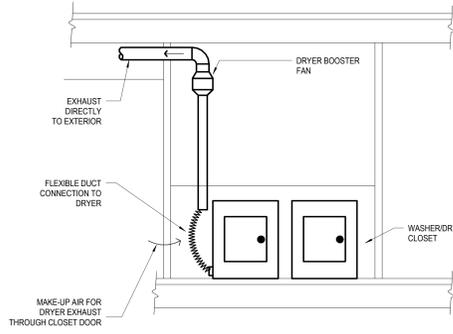
- NOTES:
- CONDENSATE
 - CONDENSATE TRAP DIAMETER MINIMUM 6 IN. AND LOCATED MINIMUM 12 IN. BELOW CONDENSATE PORT OR "TEE" FITTING
 - CONSTANT DRAIN MUST HAVE A MINIMUM DOWNSLOPE OF 1:2"
 - STEAM LINE
 - MUST HAVE A MINIMUM OF 1FT BEFORE A TURN. THE TURN MUST HAVE A RADIUS OF 12IN MINIMUM
 - MUST HAVE A CONSTANT MINIMUM UPSLOPE OF 10', OR CONSTANT MINIMUM DOWNSLOPE OF 2"
 - DRAIN HOSE
 - MUST BE LED TO THE LEFT AND HAVE A CONSTANT DOWNSLOPE MINIMUM OF DEGREE TO FUNNEL
 - USING DI OR RO WATER, USE SUPPLIED DRAIN HOSE OR STAINLESS STEEL PIPE ONLY ABLE TO WITHSTAN MAX TEMPERATURE OF 140°F
 - DRAIN HOSE MUST NOT TOUCH THE FUNNEL

10 HUMIDIFIER
 SCALE: NTS



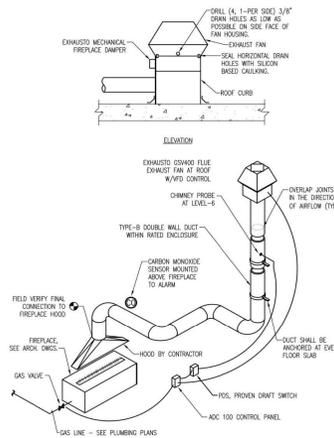
EXAMPLE ZONE:
 A = 0.8 FT
 B = 8" (SINGLE NOZZLE MINIMUM HEIGHT)
 C = 2 x B = 16 INCH MIN
 X = 6 INCH ABSOLUTE MIN, 12" PREFERRED WITH ROOM FOR AP SWITCH
 Y = 36 INCH (8FT)
 Z = 10 FT

8 HUMIDIFIER DISTRIBUTOR
 SCALE: NTS



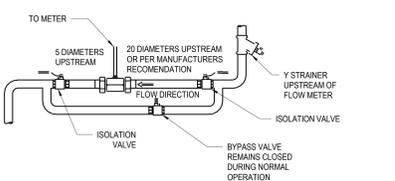
NOTE: WASHER-DRYER CLOSET IS VENTILATED USING THE DRYER EXHAUST AND BOOSTER FAN AS AGREED WITH JOHN TURCOTTE FROM THE CITY OF SCOTTSDALE.

7 DRYER EXHAUST CONFIGURATION
 SCALE: NTS

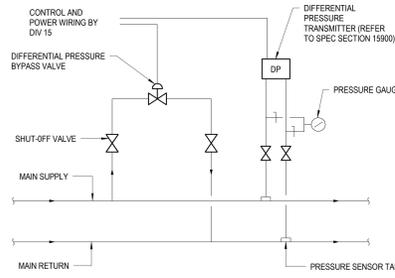


- OPERATION:
- FINAL FIREPLACE EXHAUST ENGINEERING TO BE CONFIRMED FOLLOWING RECEIPT OF WORK-UP DATA FROM FIREPLACE MANUFACTURER. FIREPLACE CONSULTANT SHALL REVIEW ALL DRAWINGS, SPECIFICATIONS, AND PRODUCT SUBMITTALS REGARDING FIREPLACE INSTALLATION AND OPERATION FOR COMPLIANCE WITH PRECEDING CODES.
 - FACE AREA OF FIREPLACE AND INPUT SIZE SHALL BE CONFIRMED WITH FIREPLACE CONSULTANT AND ARCHITECT FOR SELECTION OF FUELE AND FUELE EXHAUST FAN SIZING.
 - PROVIDE EXHAUST FAN OR APPROVED EQUAL WITH ROOF CURB. MANUFACTURER OF FUELE EXHAUST FAN SHALL ALSO PROVIDE AUTOMATED FIREPLACE SAFETY SYSTEM WITH CONTROL RELAY PER NFPA/IFCC/UL/ULC, PROVEN DRIFT SWITCH, SWITCH, DUCTWORK, HOSE, AND SEALED CONTROL. SEQUENCE OF OPERATION WHICH WILL BE REVIEWED BY FIREPLACE CONSULTANT AND F.A.K.
 - GAS VALVE AND FUELE EXHAUST PERFORMANCE TO BE INTERLOCKED TO PREVENT THE FLOW OF GAS UNLESS EXHAUST FAN IS IN FUELE OPERATING MODE AS REQUIRED BY PROVEN DRIFT SWITCH.
 - WHEN GAS SENSOR IS ACTIVATED, FUELE EXHAUST FAN WILL INCREASE TO OPERATING SPEED, AFTER A PRESET TIME AND PROVIDED THE POS IS SATISFIED, FLOW OF GAS AT THE GAS VALVE WILL BE ALLOWED BY THE CONTROL RELAY.
 - IF PROVEN DRIFT IS NOT MAINTAINED THE CONTROL RELAY WILL INCREASE FAN SPEED AND SHUT OFF GAS FLOW.
 - WHEN GAS IS OFF, FAN WILL CONTINUE TO OPERATE FOR A SET TIME TO REMOVE ANY REMAINING PRODUCTS OF COMBUSTION AFTER WHICH THE FAN WILL SHUT OFF.
 - IN CASE OF MECHANICAL OR ELECTRICAL FAILURE THE CONTROL RELAY WILL SHUT OFF THE FLOW OF GAS.
 - FUELE EXHAUST FAN SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

9 FIREPLACE CONTROLS AND DETAILS
 SCALE: NTS

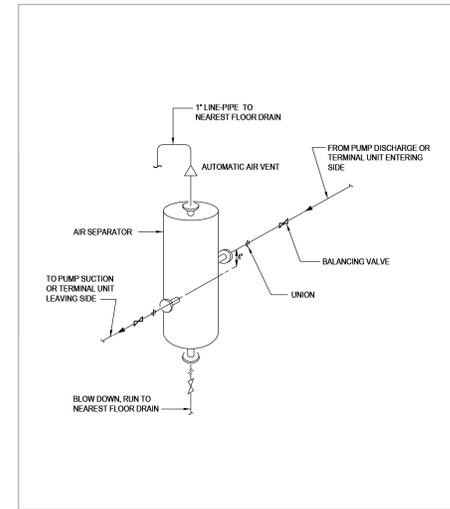


6 WATER FLOW METER INSTALLATION
 SCALE: NTS

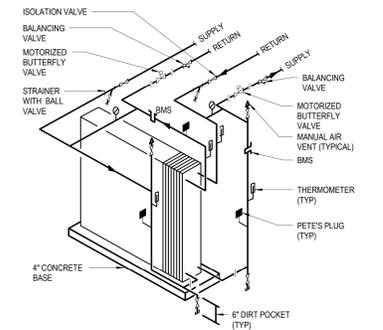


NOTE:
 PROVIDE FOR ALL CONSTANT VOLUME CLOSED-PUMPING SYSTEMS
 SIZED FOR MIN 75% OF LARGEST CHILLED OR HOT WATER PUMP.
 LOCATE APPROXIMATELY MID-POINT OF PIPING DOWNSTREAM OF PUMP IN ACCESSIBLE LOCATION, OR REFER TO DWG FOR LOCATION.

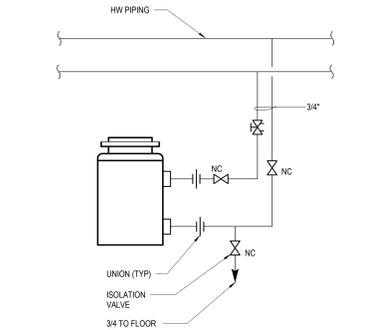
5 DIFFERENTIAL PRESSURE SENSOR
 SCALE: NTS



4 BYPASS AIR SEPARATOR
 SCALE: NTS

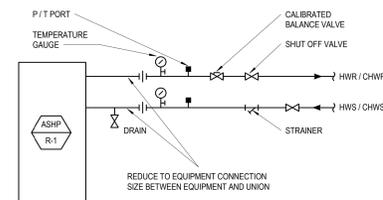


3 WATER TO WATER PLATE TYPE HEAT EXCHANGER PIPING
 SCALE: NTS



NOTES:
 1. PROVIDE 5 GALLON POT FEEDER FOR HEATING WATER SYSTEM

2 POT FEEDER
 SCALE: NTS



1 ASHP PIPING
 SCALE: NTS

Reserved for permit stamp

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principal architect _____
 project manager _____
 drawn by _____
 checked by _____
 job no. _____
 date 5/17/2024

revisions:

no. date by

IFC Set 2 of 3
 5/17/2024

MECHANICAL DETAILS

M5.04