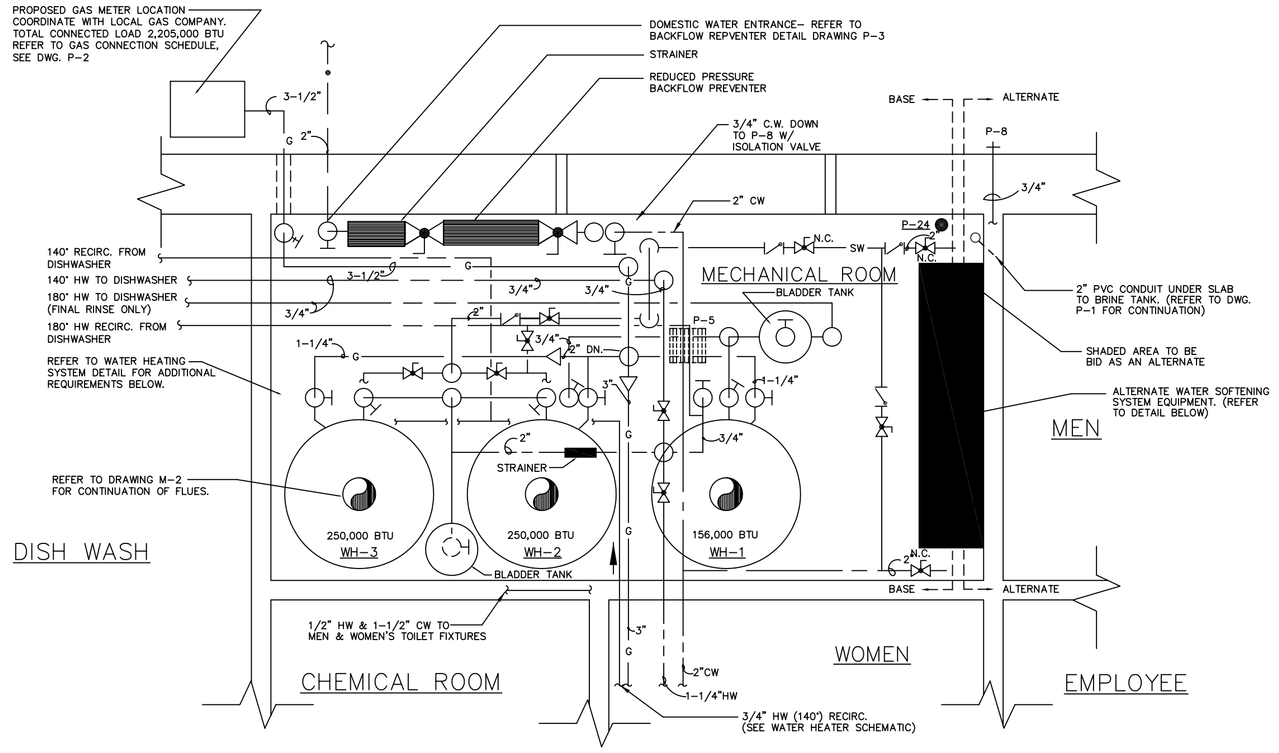
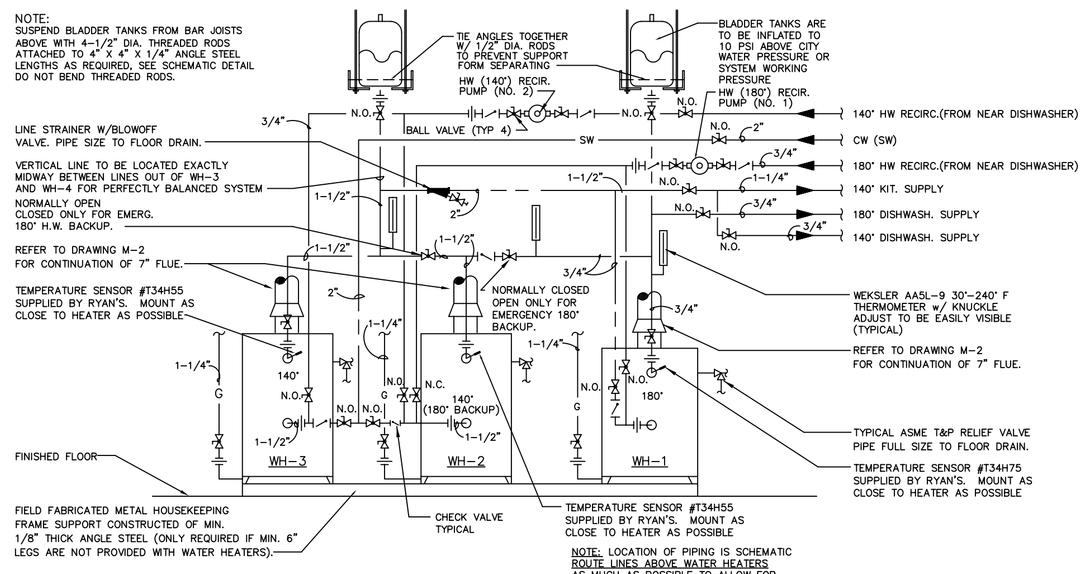


ENLARGED MECHANICAL ROOM PLAN

SCALE: 3/4" = 1'-0"

PLUMBING CONTRACTOR IS RESPONSIBLE FOR BOILER INSPECTIONS AND CERTIFICATE COSTS

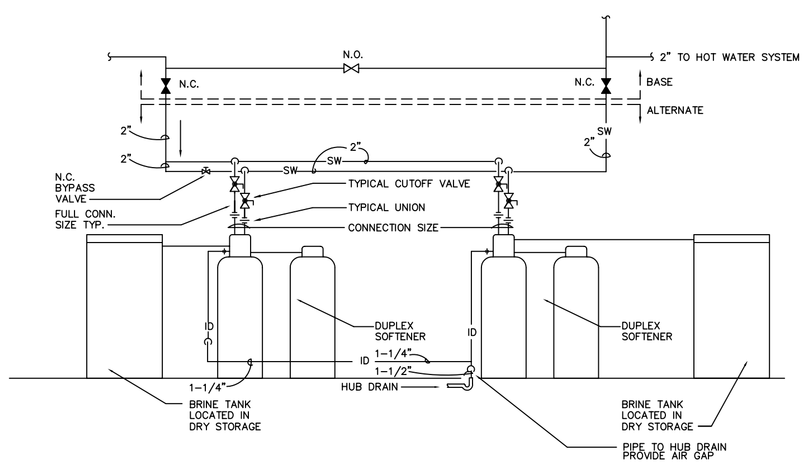
WATER HEATING SYSTEM EQUIPMENT
WATER HEATER: (140° SYS) WH-2 & WH-3 TWO-RHEEM MDL G-72-250 (A), 72GAL., 250,000BTU (WITH ELECTRONIC IGNITORS)
WATER HEATER: (180° SYS) WH-1 ONE-RHEEM MDL G-82-156, 82GAL., 156,000BTU (WITH ELECTRONIC IGNITOR)
WATER HEATER: (120° SYS) ONE-RHEEM MDL EGSP-30-6, 30GAL., 6kW 208/1/60
BLADDER TANK: (180° SYS) ONE-AMTROL/EXTROL MODEL ST-80V
BLADDER TANK: (140° SYS) ONE-AMTROL/EXTROL MODEL ST-30V
THERMOMETER: THREE- 0° TO 200° THERMOMETER W/ ISOLATION COCKS
RECIRCULATING PUMPS: B&G MODEL SLC-25B (180°) BRONZE CONSTRUCTION, 4 STEP SPEED ADJUSTMENT, 4 GPM @ 10FT. TDH, 120/1/60, 1/25 HP MOTOR, 3/4" FLANGED CONNECTIONS. FIELD ROUTE PIPING AS REQUIRED TO MOUNT PUMPS MAX 5'-0" A.F.F. (NO. 1 & NO. 2)
REMARKS: 1. EQUIPMENT SUPPLIER SHALL PROVIDE STARTUP OF WATER HEATER SYSTEM. 2. CONTRACTOR TO REMOVE DAMPERS IN HOT WATER HEATER FLUES 3. WATER HEATERS WH-2 AND WH-3 SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASME BOILER AND PRESSURE VESSEL CODE, SECTION IV PART NLW FOR A WORKING PRESSURE RATING OF 150 PSI.



WATER HEATER AND STORAGE TANK SCHEMATIC

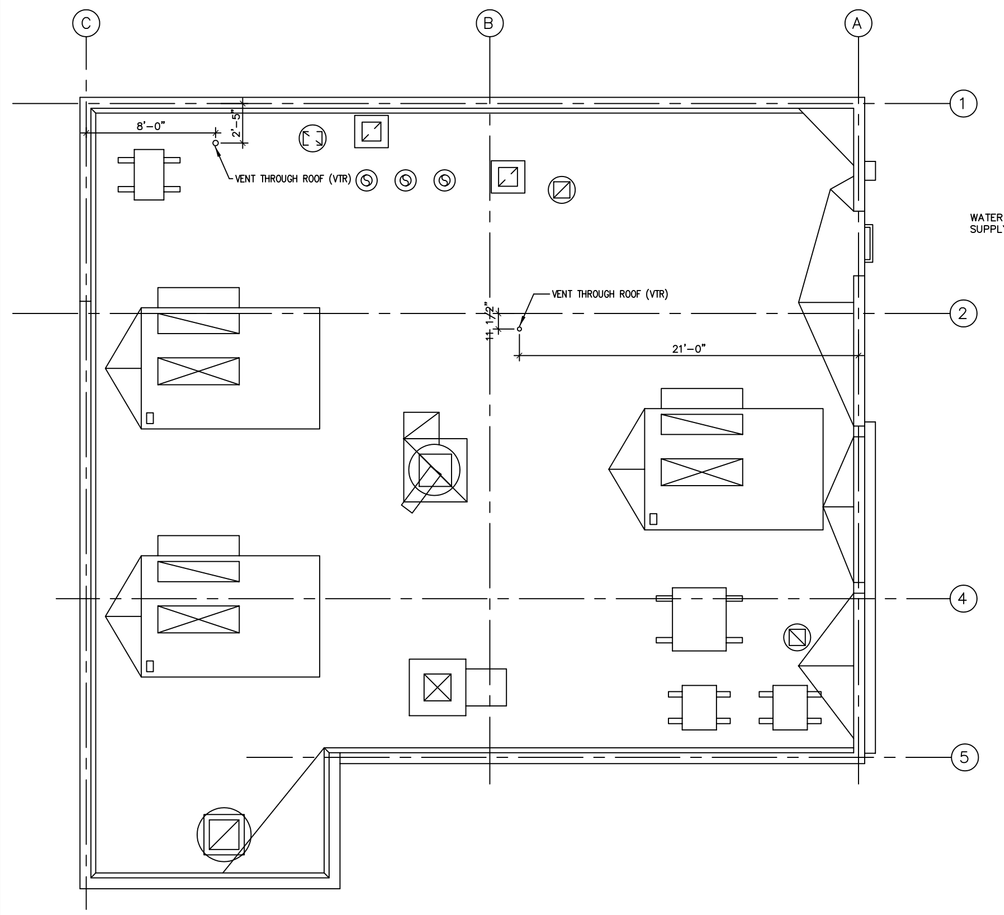
N.T.S.

WATER SOFTENER EQUIPMENT SCHEDULE	
(2) KINETICO MULTI-UNIT MODEL #7111 WITH (2) SOFTNER TANKS AND ONE BRINE DRUM EACH. REFER TO DETAIL FOR DUPLEX SYSTEM INSTALLATION.	
KINETICO INCORPORATED 10845 KINSMAN ROAD NEWBURY, OHIO 44065 1-800-321-5022	GEORGE F. HOHMAN NATIONAL ACCOUNTS SALES MANAGER 1-216-564-9111 (PHONE) 1-216-564-9541 (FAX)



ALTERNATE WATER SOFTENER SYSTEM DETAIL

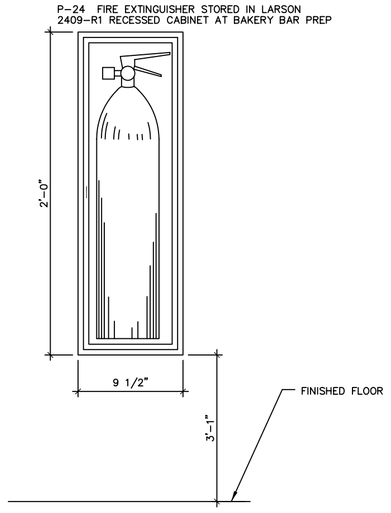
N.T.S.



PLUMBING VENT LINES ROOF PLAN

SCALE: 3/16" =1'-0"

NOTE:
MAINTAIN 10'-0" MIN CLEARANCE BETWEEN ANY VENT LINE AND AIR INTAKE

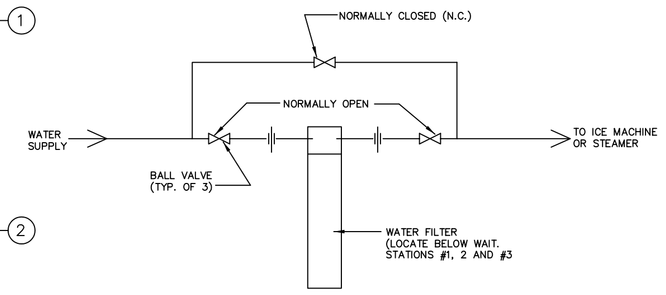


P-24, P-25

FIRE EXTINGUISHER MOUNTING HEIGHT

N.T.S.

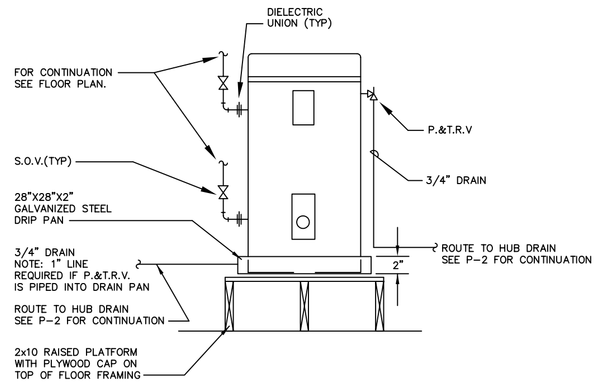
PROVIDE A THREE-VALVE BYPASS INSTALLATION AT WATER FILTERS (EQUIPMENT #201) FOR ICE MACHINES (#96) LOCATED AT WAIT STATIONS 1, 2 AND 3 AND FOR STEAMER (#49)



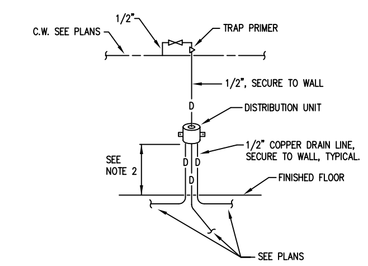
THE NORMALLY CLOSED VALVE WILL ONLY BE OPENED, AND THE OTHER TWO BALL VALVES CLOSED, WHEN THE WATER FILTER BECOMES FULL AND A REPLACEMENT FILTER CANNOT BE IMMEDIATELY INSTALLED. THE THREE-VALVE BYPASS WILL PREVENT WATER SHUT-OFF, WHICH OCCURS AUTOMATICALLY WHEN THE WATER FILTER BECOMES FULL.

WATER FILTER DETAIL

N.T.S.



WATER HEATER DETAIL



TRAP PRIMERS WITH DISTRIBUTION UNIT

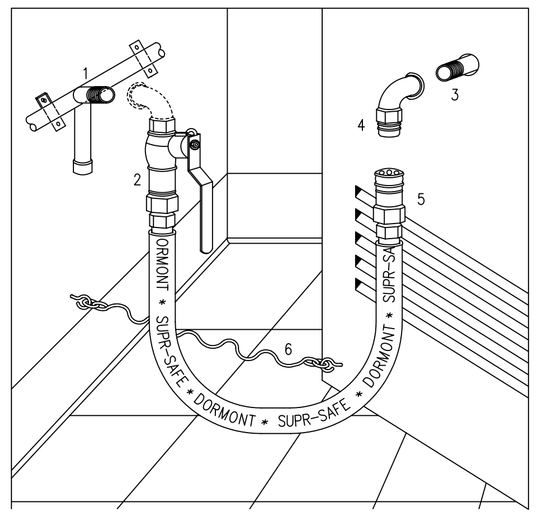
N.T.S.

NOTES:
1. DISCHARGE FROM TRAP PRIMER RUN IN CONCRETE FLOOR FILL SHALL BE TYPE L, SOFT COPPER.
2. MOUNT DISTRIBUTION UNIT A MINIMUM OF 12" ABOVE THE FINISHED FLOOR FOR EVERY 20' LENGTH OF HORIZONTAL DRAIN LINE RUN. UNIT SHALL BE ACCESSIBLE THRU STAINLESS STEEL COVER PLATE ON WALL. ALTERNATE LOCATION CAN BE AN ACCESSIBLE LOCATION ON THE MECHANICAL PLATFORM AT PUBLIC TOILETS.

DORMONT INSTALLATION INSTRUCTIONS

1. CONNECT DORMONT SUPR-SAFE GAS BALL VALVE TO HOUSE PIPING. (AN ADDITIONAL STEEL ELBOW MAY BE NECESSARY DEPENDING ON THE LOCATION OF THE HOUSE PIPING.)
2. CONNECT DORMONT SUPR-SAFE GAS APPLIANCE CONNECTOR TO GAS BALL VALVE. (NOTE – DO NOT USE PIPE DOPE, TEFLON TAPE OR ANY OTHER SEALING COMPOUND IN FLARE SEAT OF GAS CONNECTOR.)
3. JOIN FURNISHED STEEL ELBOW TO APPLIANCE NIPPLE. ELBOW SHOULD BE FACING DOWNWARD.
4. ATTACH SUPR-QUIK QUICK DISCONNECT (NIPPLE PORTION) TO STEEL ELBOW.
5. CONNECT BOTH PORTIONS OF SUPR-QUIK QUICK DISCONNECT DEVICE (NIPPLE AND COUPLER) TO SUPR-SAFE GAS CONNECTOR. TIGHTEN ALL CONNECTIONS. PERFORM LEAK TEST WITH LEAK TEST SOLUTION. IMPORTANT: LEAK TEST SOLUTIONS MAY CAUSE CORROSION – WATER RINSE AFTER TEST, THEN THOROUGHLY DRY.
6. RESTRAINING CABLE:
   A. RESTRAINING CABLE LENGTH MUST BE SHORTER THAN GAS CONNECTOR.
   B. ATTACH EYELET FASTENERS TO BOTH WALL STUD AND EQUIPMENT.
   C. ATTACH SPRING HOOKS OF RESTRAINING CABLE TO EYELET FASTENERS ON WALL AND EQUIPMENT.

NOTE: AN ALTERNATIVE INSTALLATION TO THAT SHOWN ABOVE WOULD BE TO REVERSE THE GAS CONNECTOR SO THAT THE QUICK DISCONNECT IS NEAR THE HOUSE INLET GAS PIPE (COUPLER PART OF QUICK DISCONNECT ATTACHES TO GAS BALL VALVE WHILE NIPPLE PART ATTACHES TO CONNECTOR). IN BOTH INSTALLATIONS, THE MANUAL GAS BALL VALVE MUST BE POSITIONED UPSTREAM FROM THE GAS CONNECTOR AND THE QUICK DISCONNECT DEVICE.



TYPICAL GAS CONNECTION TO KITCHEN EQUIPMENT DETAIL

N.T.S.

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GENERAL NOTES:

1. ALL FLUES THRU ROOF SHALL BE MINIMUM 10'-0" FROM NEAREST OUTDOOR AIR INTAKE.
2. FURNISH AND INSTALL LINE SIZE PRV IN MECH ROOM FOR INCOMING CW SERVICE. IF CITY WATER PRESSURE AT THE BUILDING EXCEEDS 65 PSIG. USE THREE(3) VALVE(BALL) BYPASS ARRANGEMENT.
3. CONTRACTOR SHALL BRACE EACH WATER HEATER FLUE AT ROOF STEEL USING FOUR(4) 1 1/4" X 1 1/4" X 1/8" PIECES OF ANGLE IRON TO BOX FLUES. BOXING SHALL ALLOW FOR RECD. FLUE EXPANSION. SUBMIT SHOP DWGS. FOR REVIEW PRIOR TO FABRICATION.
4. MAX. HEIGHT FOR H.W. RECIR. PUMPS NO. 1 & NO. 2 SHALL BE 4'-6" AFF.

REVISIONS

REV.	DESCRIPTION	DATE	BY

RYAN'S FAMILY STEAK HOUSES, INC.
199 HUNT STREET - GREER, S.C. 29650 - (864) 879-1000

Ryan's® FAMILY STEAK HOUSE

ENLARGED PLAN, SCHEMATICS DETAILS

DESIGNED: R.A.D. DATE: 07-29-99

STORE TYPE PT9L

DRAWING NO. P – 4