WHERE HEATER HAS VERTICAL STEEL SUPPORT COLUMNS, THE HEADER MAY BE FAR ENOUGH AWAY FROM SHELL TO ALLOW BURNER SUPPLY LINES TO RUN DOWN BETWEEN HEADER AND SHELL. ( SEE NOTE 4 AND 7 ) 1 FUEL GAS PILOT GAS ATOMIZING STEAM 4 FUEL OIL ( TRACED ) OBSERVATION DOOR. VALVING, INSULATION, TRACING, ETC. MUST BE CONSIDERED IN SPACING REGULATING VALVES-TO HEADERS. BE WITHIN REACH, FOR INSULATED LINES AT BOTTOM. OPERATION, WHILE OBSERVING FLAME THROUGH DOOR. -MINIMUM TO TRAP LOCATED BURNER AT GRADE. ASSEMBLY. HEADER DRAINS, ROUTE IN FIELD TO GRADE AND AWAY FROM HEATER TO PREVENT IGNITION. MINIMUM, BUT ALLOW ROOM TO OBSERVE USE FLEXIBLE HOSES. FLAME THROUGH DOOR. ALTERNATE: USE PIPE WHEN SPECIFIED BY CLIENT. FULL 360 PLATFORM OR INDIVIDUAL PLATFORM AND UNIONS OR FLANGES ( PER LADDER AT EACH OBSERVATION MATERIAL CLASS ) FOR PLUGGED TEE. DOOR.DEPENDING ON SPECIFIC EASE OF BURNER REMOVAL. JOB REQUIREMENTS. ALL LINES TO BE ABOVE HEAD ROOM AND PILOT GAS SHUT OFF VALVE WHERE CLEAR OR BURNERS AND SIGHT PORTS.

CONTINUOUS HEADERS SHOULD BE INSTALLED AS CLOSE AS POSIBLE TO HEATER SHELL.

## TYPICAL FOR COMBINATION BURNER WITH STACK ATOMIZATION AND GAS PILOT

( SEE NOTE 1 )

## NOTES:

- 1. HEIGHT OF HEATER ABOVE GRADE SHOULD NOT BE ARBITRARILY SET. AMPLE HEAD ROOM UNDER FLOOR SHOULD BE PROVIDED BY ADJUSTING HEATER LEGS OR BY INCREASING HEIGHT OF PIERS.
- 2. AUTOMATIC CONTROLS SHOULD BE ACCESSIBLE FROM GRADE AND ADJACENT TO HEATER.
- 3. IN FLUEL OIL SYSTEM, THE CIRCULATING LOOP SHOULD BE CARRIED IN AS CLOSE AS POSSIBLE TO HEATER, TO MINIMIZE DEAD END.
- 4. SMALL DIAMETER HEATER WITH MINIMUM NUMBERS OF BURNERS WOULD NOT REQUIRE HEADER COMPLETELY ENCIRCLING HEATER.

MANUAL LIGHT OFF IS REQUIRED.

- 5. USE THIS ARRANGEMENT AS A GENERAL GUIDE ONLY. DIAGRAMS WILL DETERMINE SPECIFIC JOB REQUIREMENTS. ACTUAL PHYSICAL LAYOUT DEPENT ON FUELS CONTROL, PILOT SYSTEMS, BURNER GROUPINGS, LIGHTING OFF METHODS, BURNER ADJUSTEMENTS ETC.
- A FINE HAND SKETCH FOR EACH JOB SHOULD BE SUBMITTED, FOR PROJECT APPROVAL PRIOR TO FINAL DESIGN LAYOUT.
- 7. THE BEND RADIUS OF THE PIPE SHALL NOT BE LESS THAN THE MINIMUM SPECIFIED IN THE FABRICATION SPEC. C2.

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