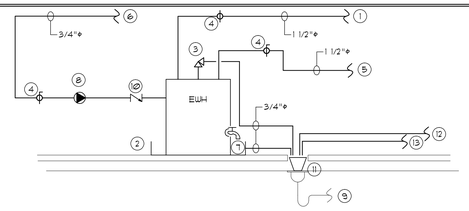
1 ELECTRIC WATER HEATER

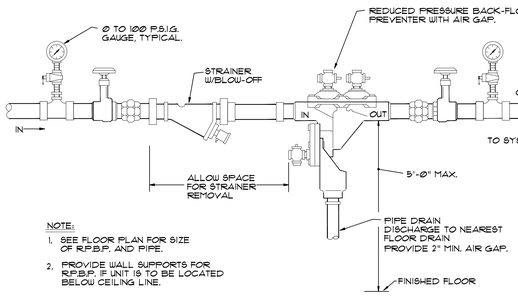
NO SCALE



1. HOT WATER SUPPLY
2. 2" DEEP SAFE PAN
3. ASME T&P RELIEF VALVE. ROUTE FULL SIZE TO HUB DRAIN.
4. BALL VALVE TYPICAL
5. CW TO WATER HEATER
6. HOT WATER RETURN
7. POSITION DRAIN PAN SO DRAIN VALVE IS ACCESSIBLE.
8. HOT WATER RECIRCULATION PUMP - 15 GPM @ 20' WG: BELL AND GOSSETT MODEL PL-30 W/ 3/4" NPT FLANGES (2650 RPM, 115V, 1/12 HP)
9. WASTE FOR HUB DRAIN
10. SWING CHECK VALVE
11. FUNNEL
12. SECONDARY DRAIN LINE
13. DRAIN LINE FROM AHU'S

2 BACKFLOW PREVENTER

NO SCALE



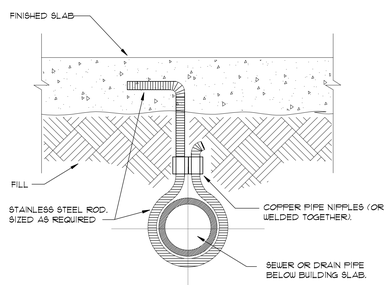
NOTE:

1. SEE FLOOR PLAN FOR SIZE OF R.P.B.P. AND PIPE.
2. PROVIDE WALL SUPPORTS FOR R.P.B.P. IF UNIT IS TO BE LOCATED BELOW CEILING LINE.

REDUCED PRESSURE BACK-FLOW

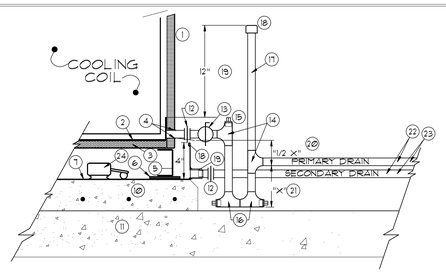
3 PIPE HANGING DETAIL

NO SCALE



4 COOLING COIL CONDENSATE TRAP DETAIL

NO SCALE



SPECIFIC NOTES:

1. UNIT CASING WITH INSULATION.
2. UNIT PRIMARY DRAIN PAN.
3. DRAIN PAN INSULATION.
4. SEAL DRAIN LINE AIR TIGHT WITH NEOPRENE GROMMET OR SILICON CAULKING.
5. UNIT SUPPORT.
6. NEOPRENE ISOLATION PAD.
7. SECONDARY DRAIN PAN.
8. ROLLED SAFETY HEMMED EDGE, ALL FOUR SIDES.
9. WELDED PIPE NIPPLE.
10. HOUSEKEEPING PAD.
11. FLOOR
12. DIELECTRIC UNION.
13. LINE SIZE, FULL PORT, BALL VALVE.
14. PIPE TEE.
15. SCREW CLEAN OUT PLUG, TYPICAL.
16. TWO (2) TEES CLOSE FIT WITH CLEAN OUT PLUGS.
17. LINE SIZE AIR VENT. ROUTE AIR VENT TO SIDE OF UNIT. DO NOT BLOCK ACCESS TO UNIT.
18. AIR VENT WITH REMOVABLE CAP WITH THREE (3) 1/4 INCH HOLES DRILLED IN CAP.
19. RUN TOP OF AIR VENT 12 INCHES ABOVE TOP OF PRIMARY DRAIN PAN.
20. PRIMARY DRAIN LINE MUST DROP 1/2 TIMES "X" BELOW PRIMARY DRAIN PAN BEFORE ANY HORIZONTAL RUN.
21. "X" IS DEPTH OF WATER SEAL AND SHALL BE EQUAL TO 1.5 TIMES THE UNIT'S TOTAL SYSTEM STATIC PRESSURE. REGARDLESS OF SYSTEM STATIC PRESSURE, "X" SHALL HAVE MINIMUM DEPTH OF 2 INCHES.
22. SLOPE HORIZONTAL DRAIN LINES 1/4 INCH PER FOOT TO DRAIN OR STACK.
23. CONNECT TO DRAIN STACK OR TURN DOWN INTO HUB DRAIN WITH AIR GAP.
24. AUTOMATIC HIGH WATER CUT-OFF SWITCH. MOUNT IN SECONDARY DRAIN PAIN. SWITCH SHALL SHUTDOWN UNIT WHEN SENSING WATER IN SECONDARY DRAIN PAN.

CONDENSATE TRAP DETAIL GENERAL NOTES:

ALL DRAIN LINES SHALL BE TYPE "M" COPPER WITH BRAZED FITTINGS, FULL SIZE OF PRIMARY DRAIN PAN CONNECTION, BUT NOT LESS THAN 3/4 INCHES IN DIAMETER. PRIMARY AND SECONDARY DRAIN LINES SHALL BE THE SAME DIAMETER.

INSULATE ALL CONDENSATE DRAIN LINES PER THE SPECIFICATIONS.

PROVIDE FOUR INCH HIGH, MINIMUM, HOUSEKEEPING PAD WITH STEEL REINFORCING RODS AND/OR MESH. SEE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION DETAILS.

MOUNT UNIT ON HOUSEKEEPING PAD SO THAT TRAP IS ABOVE FINISHED FLOOR. FLOOR MOUNTING SHOWN. MODIFY DETAIL FOR STRUCTURAL SUPPORT OR UNIT SUSPENSION.

MOUNT SECONDARY DRAIN PAN UNDER THE COMPLETE FOOT PRINT OF THE UNIT. CONSTRUCT THE DRAIN PAN 4 INCHES LARGER, IN EACH DIRECTION, THAN THE UNIT FOOT PRINT.

CONSTRUCT THE SECONDARY DRAIN PAN FROM 16 GAUGE STEEL WITH WELDED CORNERS AND SEAMS, ROLLED SAFETY HEMMED EDGES WITH A PIPE NIPPLE WELDED TO THE LOW POINT. HOT DRIP GALVANIZE THE ENTIRE DRAIN PAN AFTER FABRICATION OR FABRICATE THE ENTIRE DRAIN PAN FROM STAINLESS STEEL, INCLUDING PIPE NIPPLE.

MOUNT THE SECONDARY DRAIN PAN DEAD LEVEL ON THE HOUSE KEEPING PAD, STRUCTURAL SUPPORT, OR SUSPEND THE PAN BELOW THE UNIT, HIGH AS POSSIBLE.

SECONDARY DRAIN PANS DO NOT REQUIRE A TRAP.

PROVIDE CONDENSATE DRAIN BALL VALVE TO FACILITATE BLOWING OUT DRAIN LINE. WIRE OR CHAIN IN THE VALVE IN OPEN POSITION. PROVIDE ENGRAVED PLASTIC LABEL 1/4" LETTERING STATING THAT VALVE SHALL REMAIN OPEN AT ALL TIMES.

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Checked By: EDA

Revisions:

ST. TAMMANY PARISH SHERIFF'S OFFICE

BROWNSWITCH ROAD
SLIDELL, LOUISIANA

CONSTRUCTION DOCUMENTS

MECHANICAL DETAILS

Sheet Number:
M4.1

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