

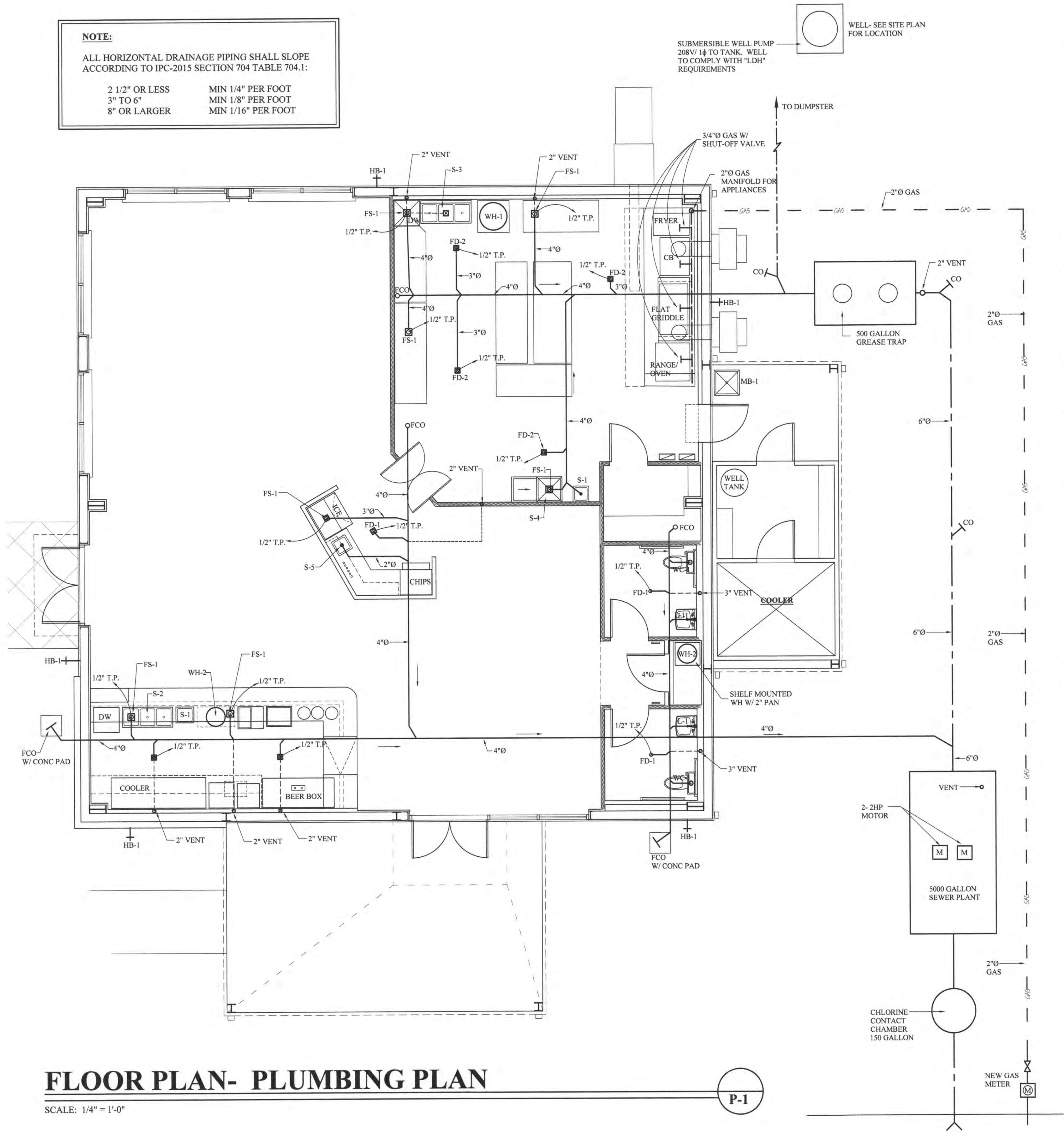
NOTE:

ALL HORIZONTAL DRAINAGE PIPING SHALL SLOPE
ACCORDING TO IPC-2015 SECTION 704 TABLE 704.1:

2 1/2" OR LESS	MIN 1/4" PER FOOT
3" TO 6"	MIN 1/8" PER FOOT
8" OR LARGER	MIN 1/16" PER FOOT

SUBMERSIBLE WELL PUMP
208V/ 14" TO TANK. WELL
TO COMPLY WITH "LDH"
REQUIREMENTS

WELL- SEE SITE PLAN
FOR LOCATION



FLOOR PLAN- PLUMBING PLAN

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

P-1

PLUMBING FIXTURE SCHEDULE

- WC-1** HANDICAPPED WATER CLOSET: TWO-PIECE LOW CONSUMPTION TYPE PRESSURE ASSISTANT HANDICAPPED TOILET MINIMUM 17 1/2" HIGH, 1.5 GPF, COLOR WHITE.
- L-1** LAVATORY - (HANDICAPPED): WALL MOUNTED 10" X 22" ADA LAVATORY WHITE FINISH VITREOUS CHINA WITH CONCEALED ARM CARRIER TO FIT UNIT. PROVIDE WITH 4" CENTER SELF-CLOSING METERED LOW WATTAGE FAUCET SET. PROVIDE WITH GRID DRAIN, ANGLE SUPPLIES WITH STOPS, FLEXIBLE RISERS, "P" - TRAP WITH TRUBRO ADA INSULATION KIT.
- FD-1** 2" DIA. FLOOR DRAIN W/ 1/2" DIA. TRAP PRIMER AND "P" TRAP. PROVIDE WITH DRAIN AND STRAINER WITH BRASS ROUND COVER CAP.
- FD-2** 3" DIA. FLOOR DRAIN W/ 1/2" TRAP PRIMER AND "P" TRAP. PROVIDE WITH DRAIN STRAINER BASKET WITH BRASS SQUARE COVER CAP.
- FS-1** 3" DIA. FLOOR SINK WITH DEEP SEAT BUCKET AND TRAP. PROVIDE WITH STRAINER BASKET AND 1/2 GRATE.
- FD-3** 4" DIA. EXTERIOR FLOOR DRAIN W/ 1/2" TRAP PRIMER. PROVIDE WITH DEEP TRAP AND STRAINER BASKET, SQUARE CAST IRON GRATE, AND REMOVABLE SEAT CAP WHEN NOT IN USE. (EXTERIOR DRAIN FOR DUMPSTER PAD)
- S-1** 17" X 19" STAINLESS STEEL HAND SINK, LEG SUPPORTED. PROVIDE WITH HOT AND COLD WATER, "P" TRAP, ANGLE VALVES, GRID DRAIN, FLEXIBLE RISERS AND STOPS. AND WRIST HANDLES. PROVIDE WITH DIRECT SEWER CONNECTION.
- S-2** BAR SINK - HOT AND COLD WATER, LEG MOUNTED STAINLESS STEEL THREE (3) COMPARTMENT 21" X 48" BAR SINK, LEG SUPPORTED. PROVIDE WITH 8" SWING SPOUT, HOT AND COLD WATER, AND BACK SPLASH. PROVIDE WITH INDIRECT CONNECTION WITH AIR GAP TO FLOOR SINK ON DRAIN HUB. PROVIDE WRIST HANDLES ON FAUCET.
- S-3** DISHWASHER SINK - 24" X 48" THREE (3) COMPARTMENT LEG SUPPORTED STAINLESS STEEL SINK. PROVIDE WITH BACKSPLASH AND DRAIN BOARD. PROVIDE WITH ACCESSORIES AND INDIRECT AIR GAP AS S-2. PROVIDE HOT AND COLD WATER.
- S-4** PROVIDE WASH SINK. 24" X 24" LEG SUPPORTED SINGLE BOWEL STAINLESS STEEL SINK WITH SIDE DRAIN BOARD, 24" X 24". PROVIDE HOT AND COLD WATER, INDIRECT SEWER CONNECTION TO FLOOR SINK OR HUB DRAIN. ACCESSORIES SAME AS S-2.
- S-5** COUNTER MOUNTED RIM STAINLESS STEEL SINGLE BOWL SINK 15" X 15" X 6" DEEP WITH 4" SPREAD LEVER FAUCETS AND 6" SPOUT. PROVIDE DAME ACCESSORIES AS S-1 / S-4 SINK, TO HAVE DIRECT DRAIN CONNECTION.
- MP-1** LEG SUPPORTED 23" X 25" MUSTEE MODEL - "14CP" LEG SUPPORTED MOP BASIN, 33" HIGH, PROVIDE WITH 6" SWING SPOUT FAUCET, FLEXIBLE SUPPLY LINES, "P" TRAP, DRAIN, STOPPER, FLEXIBLE SUPPLY AND SHUT-OFF VALVES.
- HB-1** EXTERIOR FREEZE PROOF ANTI-SIPHON COLD WATER FAUCET WITH 3/4" C.W. CONNECTION.
- HB-2** EXTERIOR FREEZE PROOF SNIT-SIPHON FREEZE PROOF 3/4 C.W. / H.W. CONNECTION BOX.
- WH-1** EQUAL TO 52-GALLON ELECTRIC WATER HEATER WITH UPPER AND LOWER 4,500-WATT HEATING ELEMENTS, 230 V SINGLE PHASE POWER. PROVIDE WITH GALVANIZED 2" DRAIN PAN. PROVIDE WITH WATTS RECIRCULATION PUMP. PROVIDE WITH 3/4 INCH CONNECTION.
- WH-2** EQUAL TO 15-GALLON ELECTRIC WATER HEATER, WITH ONE (1) 2- KW HEATING ELEMENT, 230 V SINGLE PHASE, PROVIDE WITH GALVANIZED 2" DRAIN PAN. PROVIDE WITH 3/4" CONNECTIONS. EQUAL TO A.O. SMITH DEL-15

NOTE: ALL INDIRECT DRAIN AIR BREAKS SHALL COMPLY WITH SECTION 802.2.1 OF 2015 INTERNATIONAL PLUMBING CODE AND SHALL NOT BE LESS THAN TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE AND THE FLOOR RECEPTOR. ALL HAND SINKS SHALL HAVE DIRECT PLUMBING (S-1, MB-1) CONNECTIONS. INDIRECT FIXTURES S-2, S-3, S-4.

MISCELLANEOUS PLUMBING ITEMS:

- A.** VB - 1, VACUUM BREAKER: INSTALL VACUUMS BREAKER ON COLD WATER INLET TO WATER HEATER UNIT SHALL BE EQUAL TO WATTS 36 A.
- B.** WHA, WATER HAMMER ARRESTORS: STAINLESS STEEL, BELLOWS / COMPRESSION CHAMBER TYPE, PRE - CHARGED AND PERMANENTLY SEALED AT THE FACTORY. EQUAL TO SMITH'S HYDROTOL # 5005.
- C.** INTERIOR FINISHED FLOOR CLEANOUT: SERIES 58660 BY JOSAM OR EQUAL. LACQUERED CAST IRON, TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR AND ADJUSTABLE NICKEL, BRONZE STRAINER, ROUND WITH SCORIATED COVER IN SERVICE AREA AND ROUND WITH DEPRESSED COVER TO ACCEPT FLOOR FINISH IN FINISHED FLOOR AREAS.
- D.** CLEANOUTS AND TEST TEES: FLOOR CLEANOUTS SHALL BE JOSAM SERIES 58340, ZURN Z1425 - 3 OR APPROVED EQUAL. WALL CLEANOUTS SHALL BE JOSAM SERIES 58710, ZURN Z1440 - 1 OR APPROVED EQUAL. EXTERIOR CLEANOUTS SHALL BE JOSAM SERIES 58310, ZURN Z1420 - 27 OR APPROVED EQUAL, SET IN 15" X 15" X 6" CONCRETE PAD.
- E.** VALVE BOXES: EACH GATE VALVE SHALL BE PROVIDED WITH AN ADJUSTABLE, TWO PIECE, CAST IRON VALVE BOX OF A SIZE SUITABLE FOR THE VALVE. THE HEAD SHALL BE ROUND AND THE LID SHALL HAVE THE WORD "WATER" CAST ON IT. THE LEAST DIAMETER OF THE SHAFT OF THE BOX SHALL BE 5". EACH BOX SHALL BE GIVEN A HEAVY COAT OF BITUMINOUS PAINT AND SET IN AN 18" X 18" X 6" CONCRETE PAD.
- F.** BP - 1, BACKFLOW PREVENTER: REDUCED PRESSURE EQUAL TO WATTS WITH AIR GAP AND STRAINER. PIPE DRAIN TO FLOOR DRAIN. EQUAL PRODUCTS BY FEBCO, HERSEY, ZURN.
- G.** SHOCK ABSORBERS: SHOCK ABSORBERS SHALL BE INSTALLED ON ALL HOT AND COLD WATER SUPPLIES NEAR THE FAUCET. SHOCK ABSORBERS SHALL BE EQUAL TO PRECISION PLUMBING PRODUCTS, INC. WITH SIZES AS RECOMMENDED BY THE MANUFACTURER.

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REVISIONS	BY



**NEW RESTAURANT FOR
HABANERO'S MEXICAN KITCHEN**
1938 LA HWY 22 WEST
MADISONVILLE, LOUISIANA 70447

**JOSEPH F. SCHNEIDER JR., AIA
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3. IF THE COOKING EQUIPMENT IS FUEL BY GAS, PROVIDE AN AUTOMATIC GAS VALVE TO SHUT-OFF GAS IN THE EVENT OF AN EXTINGUISHING SYSTEM ACTIVATION. (IF APPLICABLE TO PROTECT)
2. HEADROOM SHALL BE NOT LESS THEN 7'-6" IN A MEAN OF EGRESS WITH NO PROTECTION LESS THAN 6'-8" NORMAL HEIGHT FROM THE FLOOR.
3. INSTALLATION OF CHEMICAL SYSTEM FOR APPLIANCE PROTECTION SHALL BE REQUIRED TO MEET THE UL-300 STANDARDS.
4. ALL WET CHEMICAL SYSTEMS, PIPING, AND NOZZLES SHALL COMPLY WITH NFPA 17A.
5. AT LEAST ONE MANUAL CONTROL FOR ACTIVATION SHALL BE LOCATED AT LEAST 42" AND NOT MORE THEN 48" ABOVE THE FLOOR, IN THE PATH OF EGRESS, MECHANICALLY OPERATED, AND DOES NOT RELY ON ELECTRICAL POWER FOR ACTIVATION.
6. THE EXTINGUISHING SYSTEM SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM, IF PROVIDED, SO THAT ACTIVATION OF THE EXTINGUISHING SYSTEM WILL SOUND THE FIRE ALARM. IF A FIRE ALARM SYSTEM IS NOT PROVIDED IN THE BUILDING, AN AUDIBLE ALARM OR VISUAL INDICATOR SHALL BE PROVIDED TO SHOW THE SYSTEM HAS OPERATED.
7. THE CHEMICAL CONTAINER AND EXPELLANT GAS ASSEMBLIES SHALL NOT BE LOCATED WHERE THEY WILL BE EXPOSED TO THE FIRE. A MINIMUM OF THREE FEET FROM APPLIANCES IS REQUIRED.
8. DISCHARGE NOZZLES SHALL BE PROVIDED WITH BLOW-OFF CAPS.
9. ACTIVATION OF ANY EXTINGUISHING SYSTEM THAT PROTECTS COOKING OPERATIONS SHALL AUTOMATICALLY SHUT OFF ALL SOURCES OF FUEL AND ELECTRIC POWER TO ALL APPLIANCES PROTECTED BY THAT SYSTEM AS WELL AS SHUTTING OFF THE SUPPLY AIR FAN (MAKE-UP AIR).
10. THE HOOD EXHAUST FAN MUST CONTINUE TO OPERATE AFTER EXTINGUISHING SYSTEM ACTIVATION.
11. PROVIDE PORTABLE FIRE EXTINGUISHERS IN ALL KITCHEN COOKING AREAS IN ACCORDANCE WITH NFPA-10. CLASS-B "GAS TYPE" PORTABLES, SUCH AS CARBON DIOXIDE AND HALON, SHALL NOT BE PERMITTED IN KITCHEN COOKING AREAS. NFPA-10 REQUIRED FIRE EXTINGUISHERS PROVIDED FOR THE PROTECTION OF COOKING APPLIANCES THAT USE COMBUSTIBLE COOKING MEDIA (VEGETABLE OR ANIMAL OILS) TO BE LISTED FOR CLASS-K FIRES, WET CHEMICAL.
12. PROVIDE A CONSPICUOUSLY PLACED PLACARD NEAR EACH PORTABLE FIRE EXTINGUISHER IN THE COOKING AREA IDENTIFYING ITS USE AS A SECONDARY BACK-UP MEANS TO THE FIXED AUTOMATIC EXTINGUISHING SYSTEM.
13. PROVIDE THE OWNER A COMPLETE OPERATION MANUAL AS-BUILT DRAWINGS UPON COMPLETION AND ACCEPTANCE OF THE SYSTEM. PROVIDE THE OWNER WITH TRAINING IN THE USE AND OPERATION OF SYSTEM.
14. THE SUPPRESSION SUB-CONTRACT SHALL BE LICENSED AND APPROVED THE STATE OF LOUISIANA FIRE MARSHAL'S OFFICE AS QUALIFIED TO FURNISH AND INSTALL SYSTEMS.
15. SUPPRESSION SUB-CONTRACTOR SHALL PROVIDE ALL REQUIRED SHOP DRAWINGS, SUBMITTALS, CALCULATIONS, AND PRODUCT DATA REQUIRED FOR APPROVAL FOR THE STATE FIRE MARSHAL'S OFFICE. INSTALLER SHALL PROVIDE ALL COMPLETED FORMS FOR REVIEW AND PAY FOR ALL APPLICATION AND REVIEW COST AFFILIATED WITH PLAN REVIEW BY THE FIRE MARSHAL'S OFFICE.

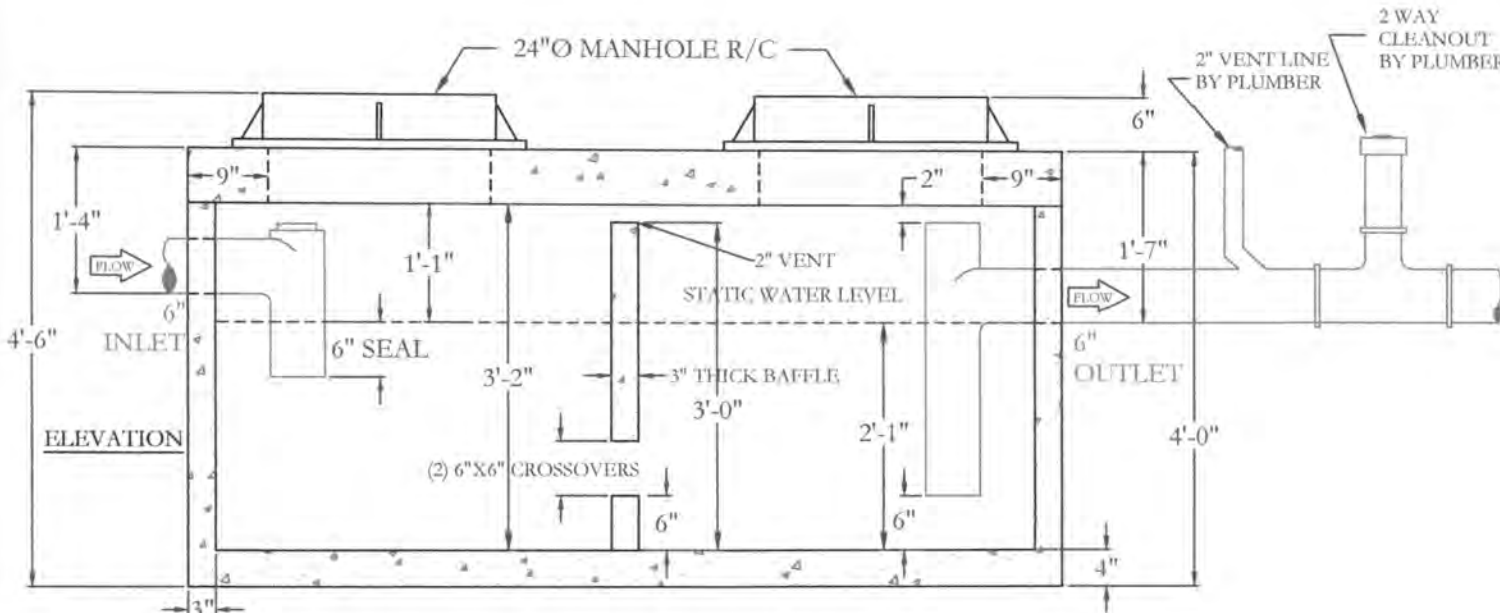
1. THE OWNER WILL FURNISH STAINLESS STEEL HOODS (3"), ROOF CURBS, FANS, AND CONTROLS. INSTALLATION OF THE SYSTEM WILL BE THE GENERAL CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION AGREEMENT, INSTALLATION DRAWINGS SHALL BE PROVIDED BY THE MANUFACTURER.
2. EXHAUST HOODS SHALL BE CONSTRUCTED OF 18 GAUGE STAINLESS STEEL WITH ALL EXTERNAL SEAMS AND JOINTS CONTINUOUSLY WELDED 1600 LB LIQUID TIGHT. EXHAUST HOODS SHALL MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE LOCAL CODES AND SHALL MEET N.E.P. STANDARDS AND ALL CLASSIFICATION STANDARDS.
3. ALL LIGHTS USED IN THE USED SHALL BE U.L. LISTED FOR CANOPY HOOD USE AND THE INCANDESCENT TYPE. WIRING SHALL BE CONCEALED AND CONNECTED TO A FLUSH MOUNTED SWITCH LOCATED AT THE HOOD.
4. THE EXHAUST HOODS SHALL HAVE ALL STAINLESS STEEL BAFFLE, U.L. CLASSIFIED FILTERS. FILTERS SHALL BE FULLY REMOVABLE.
5. ALL HOODS TO HAVE ALL STAINLESS STEEL TRIM PANELS FROM TOP OF CEILING LINE.
6. EXHAUST FANS TO BE CURB MOUNTED, UP BLAST TYPE WITH HINGED ACCESS TO MOTOR. FANS TO BE U.L. LISTED. TO HAVE ADJUSTABLE SHEAVES. MANUAL DISCONNECT SWITCH INCLUDED.
7. THE SUPPLY FAN AND EXHAUST FAN STARTERS, THERMAL OVERLOAD SWITCH, RELAYS AND MOUNTED BOXES SHALL BE FURNISHED BY THE HOOD MANUFACTURER. THE FAN SWITCHES (S) SHALL BE MOUNTED ON THE FACE OF THE HOOD. THE RELAYS AND FAN STARTERS SHALL BE MOUNTED IN THE SURFACE MOUNTED BOXES AT THE ELECTRICAL PANELS. INSTALLATION BY THE ELECTRICIAN GENERAL CONTRACTOR. THE GAS SOLVENT VALVES, IF REQUIRED, SHALL BE INSTALLED AS SHOWN ON THE MANUFACTURER'S DRAWINGS.
8. ALL EXHAUST COLLARS AND EXHAUST DUCTWORK SHALL BE SIZED TO MAINTAIN BETWEEN 1500 FPM AND 2000 FPM EXHAUST AIR VELOCITY. ALL EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED ON ACCORDANCE WITH NFPA-96. EXHAUST DUCTWORK SHALL HAVE ALL SEAMS, JOINTS AND PENETRATIONS CONTINUOUSLY WELDED 1600 LB LIQUID TIGHT. ANY HORIZONTAL RUNS OF EXHAUST DUCT SHALL SLOPE BACK TOWARD THE HOOD AT SLOPE OF 1" PER FOOT. THE DISCHARGE OF THE EXHAUST FANS SHALL BE UPWARD AND A MINIMUM OF 40" ABOVE THE ROOF SURFACE AND A MINIMUM OF 10" FROM ANY OUTSIDE AIR INTAKE.
9. ALL HOOD SUPPLY AIR DUCTS SHALL BE INSULATED FROM THE SUPPLY FAN TO THE EXHAUST HOOD INSTALLATION. ALL ROOF CUTS AND SET CURBS. ALL REQUIRED PIPING (EXCLUDING FIRE PROTECTION).
10. THE GENERAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING FOR THE HOOD INSTALLATION. ALL ROOF CUTS AND SET CURBS. ALL REQUIRED PIPING (EXCLUDING FIRE PROTECTION).
11. IF REQUIRED BY CODE - CHAIN OVEN HOOD (B-649) EXHAUST HOOD SHALL BE ENCASED IN EITHER A ONE (1) HOUR DUCT ENCLOSURE PER NFPA OR SECT 9 COVERED WITH A DUCT WRAP SIMILAR TO THERMAL CERAMICS "FIRE MASTER" BY 3-M CORPORATION.

1. PER NFPA 96, ALL EXHAUST DUCT SEAMS AND JOINT SEAMS SHALL HAVE A CONTINUOUS LIQUID TIGHT EXTERNAL WELD: EXCEPTION WOULD BE LISTED FACTORY BUILT GREASE DUCT.
2. ALL DUCTS WITHIN 18" OF ANY COMBUSTIBLE MATERIAL, SHALL BE COVERED IN DUCT WRAP SIMILAR TO THERMAL CERAMICS "FIRE MASTER" BY 3-M PRODUCTS, 2-LAYERS OF 1-1/2" MATERIAL EQUAL TO 2-HOURS RATED SEPARATION.
3. ROOF TOP FANS SHALL BE MOUNTED MINIMUM 3'-4" ABOVE HIGHEST POINT OF THE ROOF.
4. INSTALL DUCT ACCESS PANELS WHERE ANY DUCTWORK CHANGES DIRECTION. INSTALL PER NFPA 96

INSTALL ONE (1) LAYER 1-1/2" THICK 3M FIRE BARRIER RATED DUCT WRAP AT ALL MAKE-UP AIR SYSTEM DUCTWORK.

INSTALL TWO (2) LAYERS 1-1/2" DUCT WRAP AT ALL EXHAUST DUCTWORK AT HOOD EXHASUT SYSTEM.

Where water service piping is located the same trench with the *building sewer*, such *sewer* shall be constructed of materials listed in Table 702.2. Where the *building sewer* piping is not constructed of materials listed in Table 702.2, the water service pipe and the *building sewer* shall be horizontally separated by not less than 5 feet (1524 mm) of undisturbed or compacted earth. The required separation distance shall not apply where a water service pipe crosses a *sewer* pipe, provided the water service is sleeved to a point not less than 5 feet (1524 mm) horizontally from the *sewer* pipe centerline on both sides of such crossing. The sleeve shall be of pipe materials listed in Table 605.3, 702.2 or 702.3. The required separation distance shall not apply where the bottom of the water service pipe, located within 5 feet (1524 mm) of the *sewer*, is not less than 12 inches (305 mm) above the highest point of the top of the *building sewer*.



Technical drawing of a 53-gal/VF Norweco Chlorinator Model LP2000. The drawing includes a top view of the circular tank and a side elevation view.

Top View Details:

- Overall diameter: 3'-6"
- Wall thickness: 2"
- Flange thickness: 4"
- Base thickness: 4"
- Inlet: 4"
- Outlet: 4"
- Tab welded equal length on both sides: 2" x 11 1/2"
- Support tabs: 4" x 2"

Side Elevation Details:

- Overall height: 3'-7"
- Base width: 3"
- Top width: 3"
- Side width: 3"
- Inlet: 4"
- Outlet: 4"
- Tab welded equal length on both sides: 2" x 11 1/2"
- Support tabs: 4" x 2"

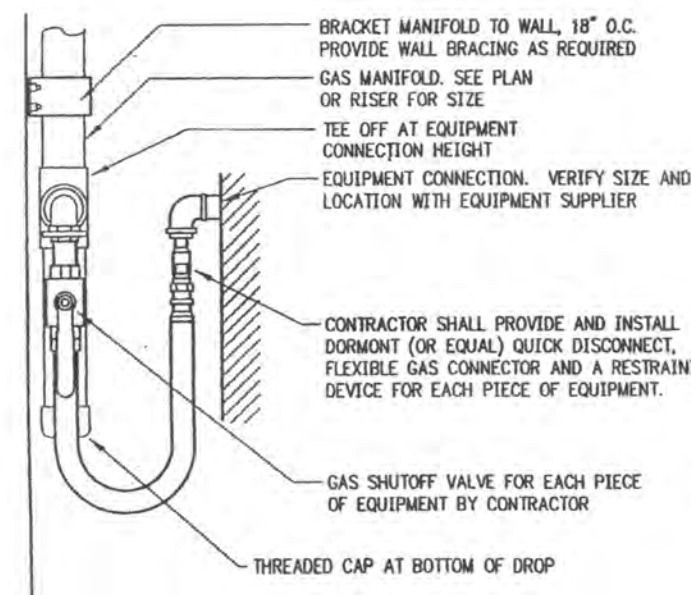
Material and Construction:

- 0.35% GALV. GRATING
- 4" x 2" TABS TO SUPPORT GRATING

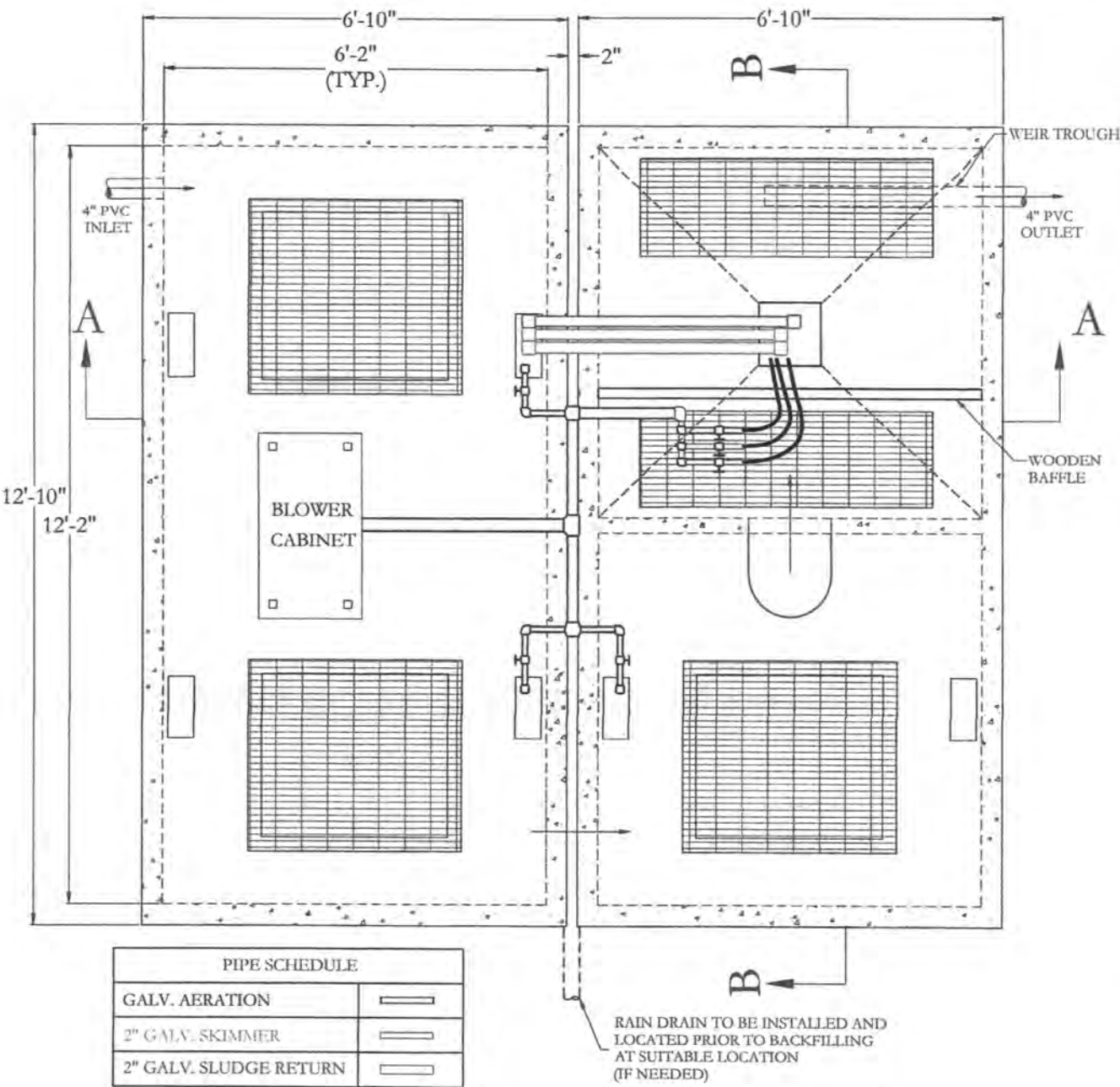
Note:

- 53 GAL/VF

A line drawing of a mobile air conditioning unit on wheels. A flexible duct is connected to the unit and runs horizontally through a wall, then turns vertically to connect to an exhaust pipe on the roof. The unit has a control panel on top and a large air intake/exhaust grille on the front.



NO SCALE



The illustrations below demonstrate several options to indirectly plumb a sink. Although they are shown only on a three compartment sink the same modifications can also be made at an one compartment or two compartment sink.

A cross-sectional diagram of a 3-compartment sink. The sink is supported by legs. A drain line runs from the sink to the floor. An air break is shown where the drain line enters the floor. A drain board is attached to the side of the sink. The floor level is indicated by a horizontal line.

Diagram illustrating the components and connections of a sink trap assembly:

- Drain Board
- Sink Leg
- Floor Level
- Drain Lines from Sink
- Air Breaks*
- Minimum 4" diameter funnel
- To Sewer
- 3-Compartment Sink

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**NEW RESTAURANT FOR
HABANEROS MEXICAN
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31938 LA HWY 22 WEST
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1. ALL MECHANICAL WORK SHALL COMPLY WITH THE 2015 EDITION OF THE INTERNATIONAL MECHANICAL CODE AND ALL REFERENCED STANDARDS.
2. ALL PLUMBING WORK SHALL COMPLY WITH THE 2015 EDITION OF THE INTERNATIONAL PLUMBING CODE.
3. ALL SEWER, DRAIN, AND VENT LINES SHALL BE SCHEDULE 40 PVC.
4. ALL COPPER LINES ABOVE GROUND SHALL BE TYPE "L" HARD COPPER.
5. ALL COPPER LINE BELOW GRADE SHALL BE SOFT COPPER TYPE "K".
6. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC 2014 EDITION.

IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE (IMC) -2015-606.4.3 AND 2015 NFPA 90A, ACTIVATION OF A SMOKE DETECTOR SHALL ACTIVATE A VISUAL AND AUDIBLE SIGNAL IN AN APPROVED LOCATION. DUCT SMOKE DETECTORS TROUBLE CONDITIONS SHALL ACTIVATE A VISUAL AND AUDIBLE SIGNAL IN AN APPROVED LOCATION AND SHALL IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. PROVIDE WITH REMOTE TEST STATION AND RESET CAPABILITY. PROVIDE SMOKE DETECTORS ON BOTH SUPPLY AND RETURN AIR DUCT LOCATIONS.

1. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC 2011 EDITION.
2. ALL ELECTRICAL MECHANICAL COMPONENTS SHALL BE INSTALLED AT ESTABLISHED BFE ELEVATIONS ESTABLISHED BY THE LOCAL GOVERNMENT JURISDICTION OF AUTHORITY.
3. ALL ELECTRICAL DISTRIBUTION SYSTEM COMPONENTS SHALL BE RATED FOR FAULT AMPERAGE INTERRUPTING CAPACITY, OR KAIC RATING COMPLYING WITH NEC 2011 ARTICLES 110.9, 110.10, 225.52(B), 230.208, 240.12, AND 240.92 (C)(1). ALL PANELS AND SUB-PANELS SHALL BE MARKED AS REQUIRED BY NEC 2011, ARTICLE 110.24A. ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE LOCAL UTILITY COMPANY THE EXISTING FULL LOAD CURRENT ENTERING THE NEW MAIN SERVICE FOR DETERMINATION OF THE REQUIRED KAIC RATING OF THE MAIN AND SECONDARY PANELS.

1. HOT WATER PIPE INSULATION SHALL BE 1" THICK FOR PIPING LESS THEN 1-1/2" THICK. FOR PIPING GREATER THEN 1-1/2" THICK PIPING INSULATION SHALL BE 2" THICK. COLD WATER PIPE INSULATION SHALL BE 1/2" THICK FOR PIPING LESS THEN 1-1/2" AND 1" FOR PIPING GREATER THEN 1-1/2" THICK.
2. LAVATORY FAUCET OUTLET TEMPERATURE LIMITED TO 110° F. IN PUBLIC RESTROOMS.
3. R-6 INSULATION FOR ALL SUPPLY DUCTWORK LOCATED OUTSIDE THE BUILDING, IN VENTILATED ATTICS AND IN NON-VENTED ATTICS ABOVE INSULATED CEILINGS R-3.5 FOR SUPPLY AIR DUCTS IN NON-VENTED ATTIC WITH ROOF INSULATION, UNCONDITIONED AND UNDERGROUND SPACES R-3.5 FOR RETURN AIR DUCTS LOCATED OUTSIDE THE BUILDING, IN VENTILATED ATTICS AND IN NON-VENTED ATTIC ABOVE INSULATED CEILING.
4. PROVIDE HVAC BALANCING REPORT TO OWNER AFTER HVAC IS COMPLETED.
5. PROVIDE METAL PAN AT HVAC ATTIC HORIZONTAL UNITS. PROVIDE "P" TRAP AND 1"Ø CONDENSE DRAIN LINE TO HOUSE WASTE LINE. PROVIDE WITH FLOAT SHUT-DOWN SWITCH AT PAN. PROVIDE SMOKE DETECTOR AT BOTH ATTIC AC UNIT AND RETURN AIR SIDE. PROVIDE WITH RE-SET SWITCH.
6. PROVIDE OVERFLOW PAN W/ 1"Ø DRAIN LINE AT ATTIC WATER HEATERS.
7. PROVIDE 220V/1Ø FOR EXTERIOR UNITS AND ELECTRICAL HEAT. MECHANICAL CONTRACTOR TO PROVIDE LOAD CALCULATIONS TO VERIFY HEATING AND COOLING QUANTITIES AND COMPLIANCE TO LOCAL ENERGY CODES.
8. ALL ELECTRICAL SWITCHES AND POWER OUTLETS LOCATED IN RATED FIRE PARTITIONS SHALL BE FIRE CAULKED PER UNDERWRITERS LABORATORY REQUIREMENTS.

1. MECHANICAL SUBCONTRACTS SHALL PROVIDE A DUCTWORK DESIGN FOR BOTH HVAC UNIT LAYOUTS. PROVIDE HVAC AT EQUIPMENT ROOM AND TOILET ROOM IN WAITING AREA. SUBMIT TO ARCHITECT SHOP DRAWING INDICATING ALL DUCTWORK, SIZE, CFM, AND OUTSIDE FRESH AIR INTAKES. ALL WORK SHALL COMPLY WITH LATEST INTERNATIONAL MECHANICAL CODE, ENERGY, CODES, AND ASHRAE REQUIREMENTS AND RECOMMENDATIONS.
2. OUTSIDE VENTILATION AIR (OSA) SHALL CONFORM TO TABLE 403.3 OF IMC 2015.



EXHAUST FANS.

EF-1, EF-2 Wall mounted kitchen hood exhaust fans. Refer to Captive-Air Hood Drawings and Specifications.

MUA Kitchen hood wall mounted Make-Up Air fan. Refer to Captive-Air Hood Drawings and Specifications.

EF-3 Ceiling mounted exhaust fan 100 cfm with 6" diameter insulated duct to exterior wall. Provide with wall cap, insect screen, backdraft , damper, wall cap, and insect screen.. Insulation minimum R-3.5

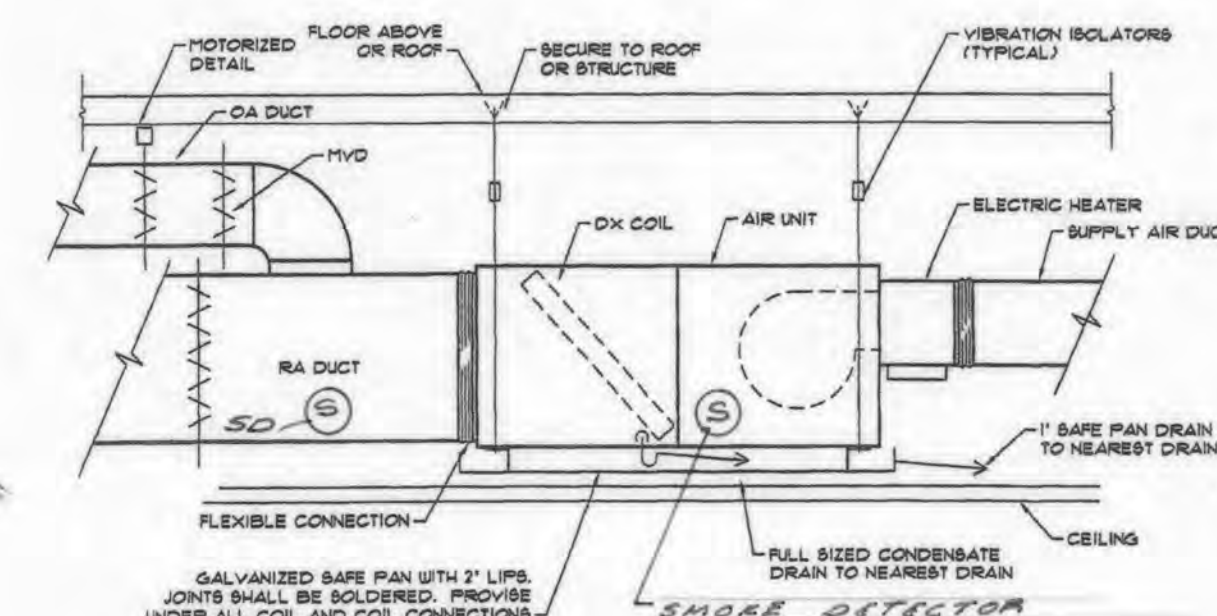
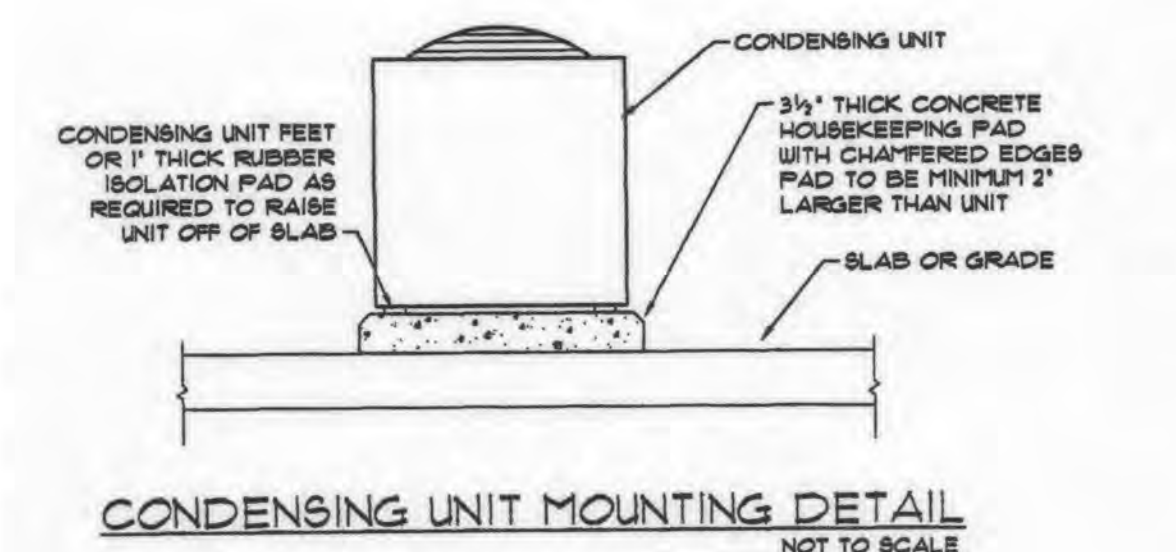
AC-1, AC-2 16 seer horizontal all electric split system R-410A refrigerant 2,000 cfm (5) ton cooling, 15 kw electric heat. Provide with smoke detectors at both supply and return air sides. Provide with audible alarm with remote reset panel controller. Provide with 2" high metal pan and overflow switch and rest control, "P" trap for condensate 1" piping and air gap.

AC-3 Equal to Mitsubishi wall mounted two(2) zone 24,000 BTU outdoor unit with two(2) 12,000 BYU indoor units, 18 seer, R-410A, cooling refrigerant only. Outdoor unit 208/230 single phase. Wall mounted interior 12,000 BTU units maximum 399 cfm / minimum 145 cfm. Weight of wall unit 22 pounds. Provide with remote controls, drain hose, nump, condensate control and wall bracket.

AIR CURTAIN

Equal to Mars door air curtain 1/6 hp, 36" wide, 120V single phase, 900 cfm, color-black. LoPro Series ETL Sanitation Certified, un-heated model.

EXPOSED DUCTWORK EQUAL TO FABRIC AIR DISPERSION
DUCT EQUAL TO "DUCTSOX" ROUND "SKEELE-CORE" FTS
POURS FABRIC 0% DEFLATION WITH SEDONA FABRIC MODEL
"CF" 1,200 FPM AIR SPEED. PROVIDE WITH GALVANIZED
CABLE AND NYLON SNAP CLIPS. COLOR SELECTED BY OWNER.



NOTES:

1. ON UNITS UNDER 5 TONS PROVIDE FIRESTAT IN THE RETURN AIR WIRED TO SHUT DOWN THE UNIT WHEN TEMPERATURE IS EXCEEDED.
2. ON UNITS 5 TONS AND LARGER PROVIDE A SMOKE DETECTOR IN THE SUPPLY AND THE RETURN AIR DUCTS WIRED TO SHUT DOWN THE UNIT WHEN SMOKE IS DETECTED.

AIR HANDLING UNIT INSTALLATION DETAIL
NOT TO SCALE

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**NEW RESTAURANT FOR
HABANERO'S MEXICAN KITCHEN**
1938 LA HWY 22 WEST
MADISONVILLE, LOUISIANA 70447

JOSEPH F. SCHNEIDER JR., AIA
ARCHITECT

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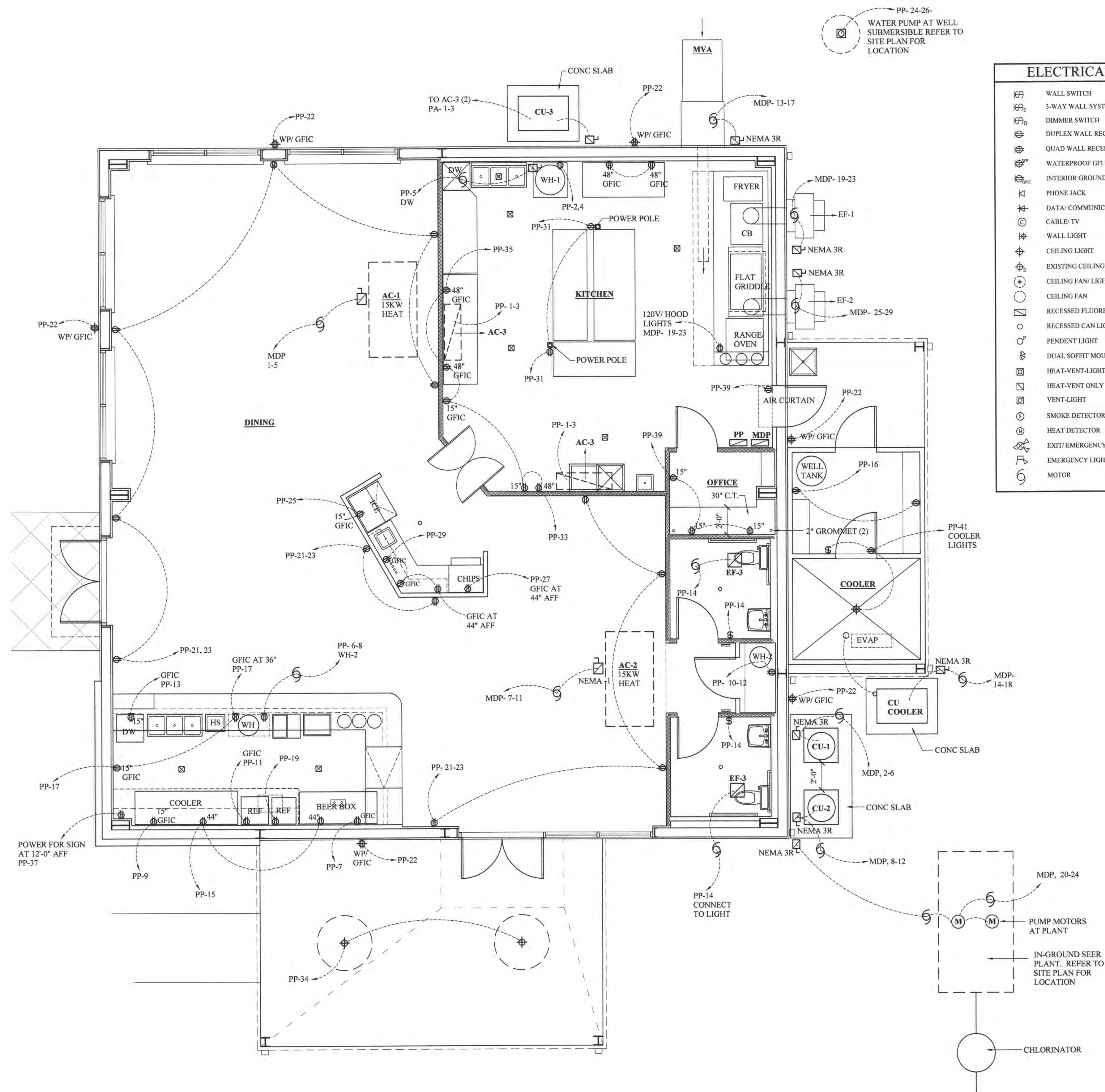
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H. SCHNEIDER

CHECKED
J. SCHNEIDER

DATE
08/29/2019
SCALE
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JOB NO.

SHEET
M-1
SHEETS

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



ELECTRICAL SYMBOLS	
	WALL SWITCH
	3-WAY WALL SYSTEM
	DIMMER SWITCH
	DUPLEX WALL RECEPTACLE
	QUAD WALL RECEPTACLE
	WATERPROOF GFI WALL DUPLEX RECEPTACLE
	INTERIOR GROUND FAULT WALL RECEPTACLE
	PHONE JACK
	DATA/COMMUNICATION WALL BOX
	CABLE/TV
	WALL LIGHT
	CEILING LIGHT
	EXISTING CEILING LIGHT
	CEILING FAN/LIGHT
	CEILING FAN
	RECESSED FLUORESCENT LIGHT
	RECESSED CAN LIGHT
	PENDENT LIGHT
	DUAL SOFFIT MOUNTED EXTERIOR FLOOD LIGHTS
	HEAT-VENT-LIGHT
	HEAT-VENT ONLY
	VENT-LIGHT
	SMOKE DETECTOR
	HEAT DETECTOR
	EXIT/EMERGENCY LIGHT
	EMERGENCY LIGHT
	MOTOR

ELECTRICAL NOTES:

1. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, STATE AND CITY REGULATIONS AND ORDINANCES.
2. MATERIALS SHALL BE NEW AND U.L. APPROVED, EXCEPT AS INDICATED.
3. CONTRACTOR SHALL APPLY FOR PERMITS AND PAY INSPECTION FEES. NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTOR UPON COMPLETION, FURNISH CERTIFICATE OF APPROVAL FROM DIVISION OF REGULATORY INSPECTION AS APPLICABLE.
4. CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION, AND SHALL BE # 12 AWG OR LARGER.
5. WIRING INSTALLED OUTDOORS SHALL BE CONTAINED IN PVC CONDUIT OR ELECTRIC METALLIC TUBING WITH SET SCREW FITTINGS, UNLESS INDICATED OTHERWISE.
6. WIRING INSTALLED EXPOSED IN DRY LOCATIONS SHALL BE CONTAINED IN ELECTRIC METALLIC TUBING WITH SET SCREW FITTINGS, UNLESS INDICATED OTHERWISE.
7. RACEWAYS SHALL BE CONCEALED UNLESS INDICATED OTHERWISE.
8. OUTLET BOXES SHALL BE GALVANIZED STEEL 4" SQUARE X 1 1/2" DEEP, OR LARGER BOX WITH RAISED DEVICE COVER, CEILING BOXES SHALL BE 4" OCTAGONAL X 1 1/2" DEEP OR LARGER, BOXES IN WALLS SHALL NOT BE INSTALLED BACK-TO-BACK.
9. OUTLET BOXES FOR EXPOSED WORK AT DRY LOCATIONS IN MECHANICAL AND ELECTRICAL ROOMS (WHERE EXPOSED RACEWAYS ARE INSTALLED) SHALL BE 4" SQUARE X 1 1/2" DEEP OR LARGER WITH APPLETON 1/2" DEEP RAISED SURFACE METAL COVERS TO ACCOMMODATE THE DEVICES INDICATED. OUTLET BOXES FOR EXPOSED WORK EXPOSED TO WEATHER OR IN DAMP LOCATIONS SHALL BE OF CAST OR MALLEABLE IRON, SIMILAR TO CROUSE-HINDS TYPE FS OR FD CONDUITS, BOXES SHALL HAVE METAL COVERS TO ACCOMMODATE THE DEVICES INDICATED.
10. EACH BRANCH CIRCUIT AND FEEDER SHALL BE PROVIDED WITH A GROUND CONDUCTOR INSTALLED WITH THE CIRCUIT CONDUCTORS. EACH GROUND CONDUCTOR SHALL BE GREEN INSULATED BOPPER CONDUCTOR, SIZED IN ACCORDANCE WITH TABLE 250.122 OF THE NATIONAL ELECTRICAL CODE NFPA 70. THESE GROUNDING CONDUCTORS ARE NOT SHOWN ON THE DRAWINGS.
11. AFTER COMPLETION OF BRANCH CIRCUIT WORK, NEW CORRECTED TYPEWRITTEN DIRECTIONS SHALL BE PROVIDED IN PANEL BOARDS AND LOAD CENTERS SERVING THE AREA.
12. ELECTRICAL CONTRACTOR SHALL INSTALL POWER WIRING REQUIRED FOR MECHANICAL SYSTEMS. CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR.
13. CONNECTION TO MOTORS SHALL BE MADE WITH A SHORT PIECE OF FLEXIBLE METAL CONDUIT BETWEEN RIGID CONDUIT SYSTEM AND MOTOR TERMINAL BOX.
14. PROVIDE BONDING AROUND CONCENTRIC AND ECCENTRIC KNOCKOUTS ON EQUIPMENT.
15. PROVIDE ADDITIONAL BOXES IN RACEWAYS AS NECESSARY, LOCATIONS SHALL MEET NFPA 70.

BREAKER SIZE	WIRE SIZE Based on copper THHN wire -Increase one size when using aluminum conductors 75°C
15 AMP	#14
20 AMP	#12
30 AMP	#10
40 AMP	# 8
50 AMP	# 6
*60 AMP	# 6
70 AMP	# 4
100 AMP	# 2
125 AMP	#1/0
150 AMP	#2/0
200 AMP	#3/0

Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc., Not Exceeding (Ampere)	SIZE (AWG or kcmil)	
	Copper	Aluminum or Copper-Clad Aluminum*
15	14	12
20	12	10
30	10	8
40	10	8
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250
1600	4/0	350
2000	250	400
2500	350	600
3000	400	600
4000	500	800
5000	700	1200
6000	800	1200

NOTE: Where necessary to comply with 250.4(A)(5) or (B)(4), the equipment grounding conductor shall be sized larger than given in this table.
*See installation restrictions in 250.120.

FLOOR PLAN- POWER PLAN

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

E-1

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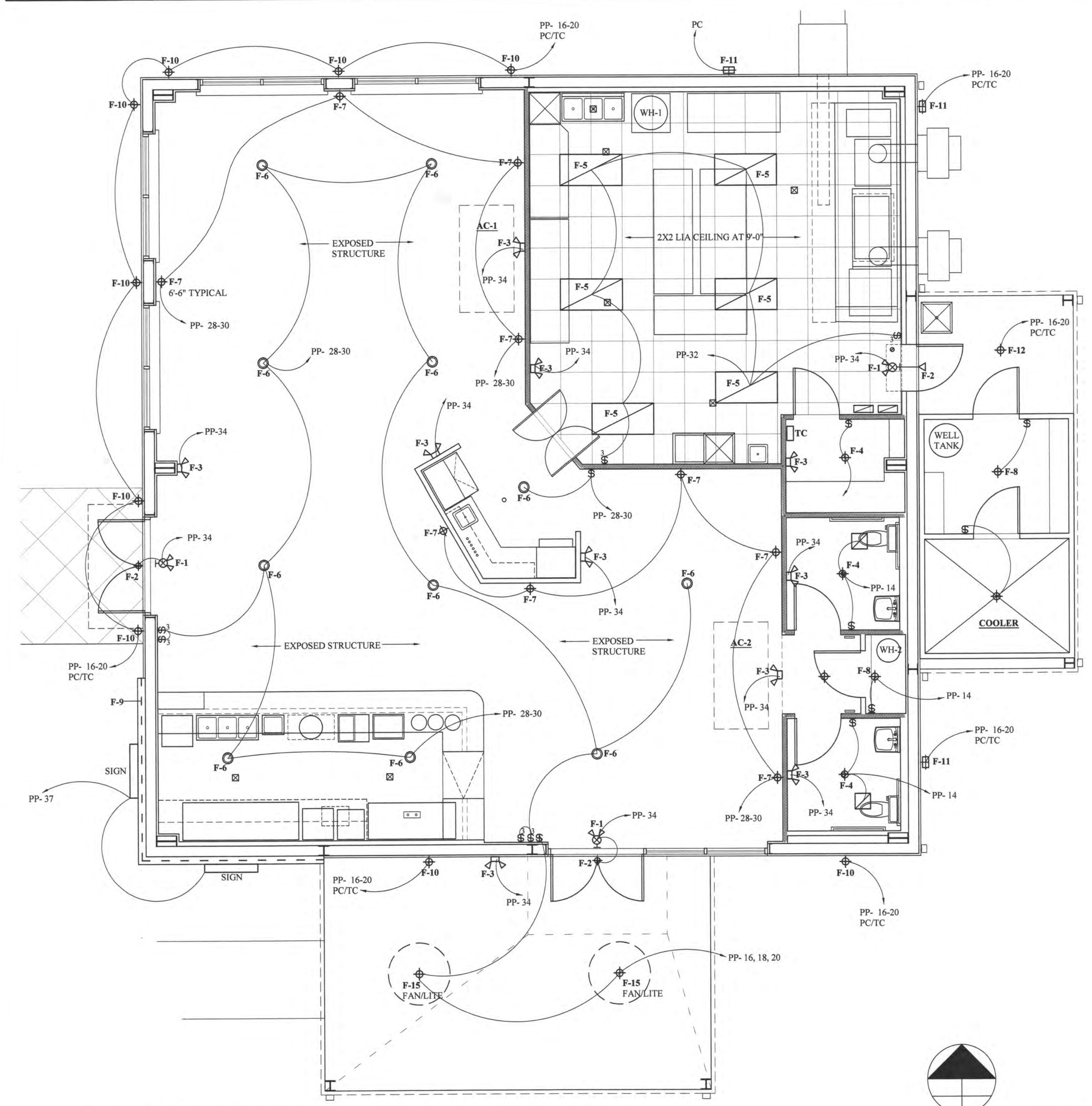
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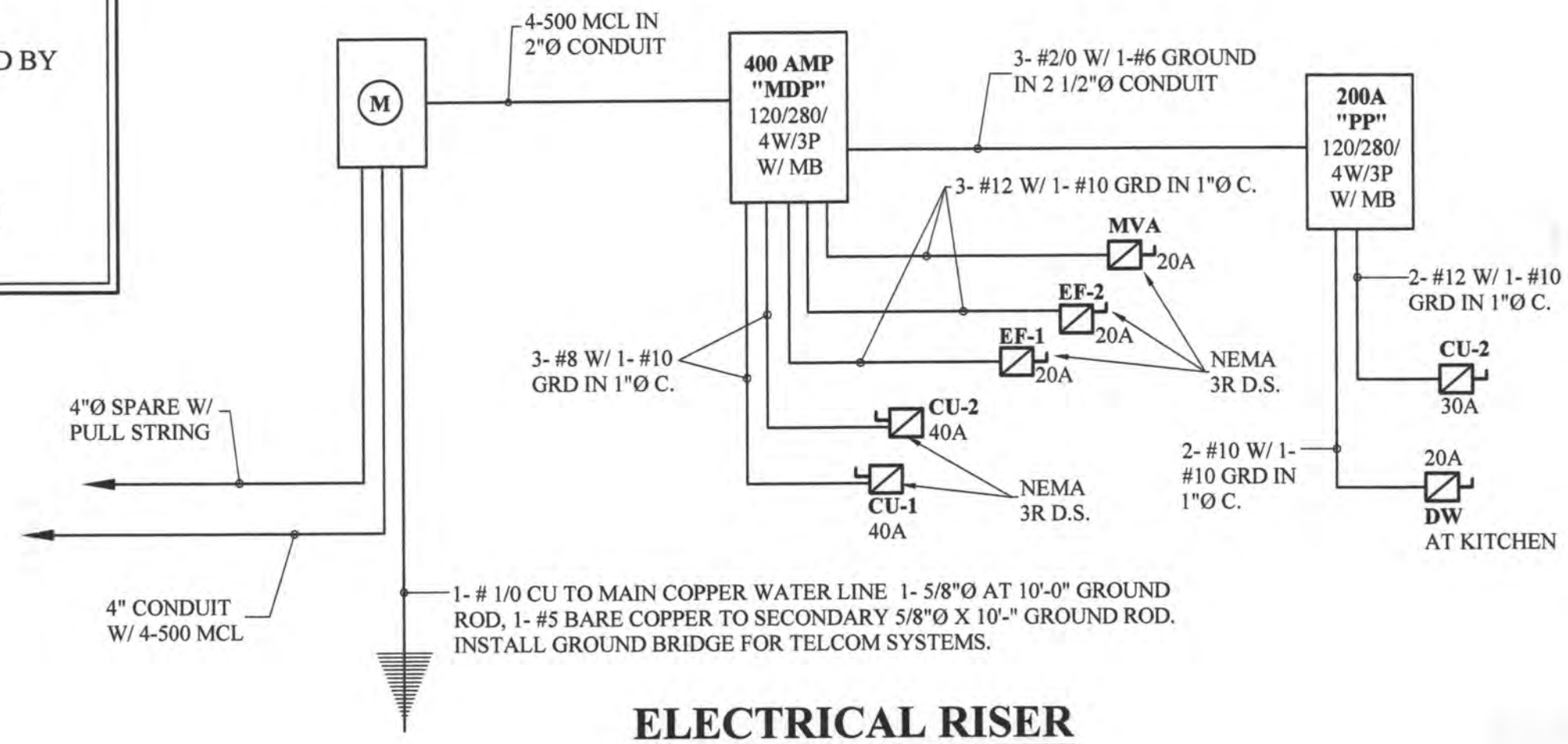
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LIGHT FIXTURE SCHEDULE			
F-1	LED COMBO EMERGENCY/EXIT FIXTURE WITH 90 MINUTE BACKUP EMERGENCY BATTERY-120V	F-6	120V SUSPENDED LED PENDENT FIXTURE SELECTED BY OWNER.
F-2	LED EMERGENCY 120V REMOTE SINGLE HEAD WALL MOUNTED CONNECTED TO F-1 FIXTURE.	F-7	WALL MOUNTED INTERIOR DECORATIVE 120V FIXTURE SELECTED BY OWNER. MOUNT AT 6'-6" ABOVE FLOOR
F-3	LED DUAL HEAD WALL MOUNTED EMERGENCY FIXTURE WITH 90 MINUTE ACKUP EMERGENCY BATTERY.	F-8	INTERIOR LED STORAGE ROOM CEILING MOUNTED 120V FIXTURE SELECTED BY OWNER.
F-4	SURFACE MOUNTED LED 120V FIXTURE SELECTED BY OWNER.	F-9	EXTERIOR LED 120V STRIP LIGHTING AT ACCENT WALL.
F-5	LED 2X4 LAY-IN TROFFER 120V WITH PRISMATIC LENS .	F-10	EXTERIOR WALL MOUNTED 120V LED DECORATIVE FIXTURE MOUNTED AT 7'-6" ABOVE FLOOR, SELECTED BY OWNER.
		F-11	EXTERIOR WALL MOUNTED 120V LED SECURITY LIGHT FIXTURE MOUNTED AT 7'-6" ABOVE FLOOR, SELECTED BY OWNER.
		F-12	SURFACE MOUNTED (CEILING) 120V LED SECURITY FIXTURE SELECTED BY OWNER.
		F-13	EXTERIOR BOLLARD LED 120V LIGHTING FIXTURE SELECTED BY OWNER.
		F-14	EXTERIOR POLE MOUNTED LED 208V LIGHT FIXTURE.
		F-15	EXTERIOR 120V COMBO CEILING MOUNTED FAN AND LIGHT SELECTED BY OWNER



FLOOR PLAN- LIGHTING PLAN

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

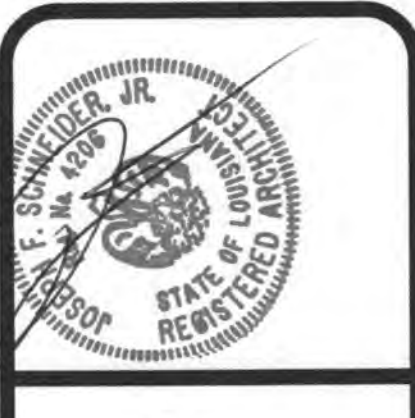


42 CIRCUIT PANEL LISTING					
PANEL - PP			AMPS: 200	VOLTAGE: 120/208	PHASE: 3Ø
			WIRE: 4W	CAT. NO:	
CRK. NO.	DESCRIPTION	BREAKER	CRK. NO.	DESCRIPTION	BREAKER
		AMP POLE			AMP POLE
1	AC-3/CU-3	30 2	2	WH-1	30 2
3	-	-	4	-	-
5	DW. KITCHEN	20 1	6	WH-2/BAR	20 2
7	BAR KEG BOX	20 1	8	-	-
9	BAR COOLER	20 1	10	WH-2/TOILETS	20 2
11	BAR AB FRIG.	20 1	12	-	-
13	BAR POWER/DW	20 1	14	TOILET EF/LITES	20 1
15	BAR POWER	20 1	16	EXT. STA.	20 1
17	BAR POWER	20 1	18	EXT. LITES	20 1
19	BAR POWER	20 1	20	EXT. LITES	20 1
21	DINING POWER	20 1	22	EXT. POWER	20 1
23	DINING POWER	20 1	24	WELL/PUMP	20 2
25	STATION- ICE	20 1	26	-	-
27	STATION- CHIPS	20 1	28	DINING LITES	20 1
29	STATION POWER	20 1	30	DINING LITES	20 1
31	KITCHEN POWER	20 1	32	KITCHEN LITES	20 1
33	KITCHEN POWER	20 1	34	EMER/EXIT/NO SWITH	20 1
35	KITCHEN POWER	20 1	36	-	-
37	EXT SIGN	20 1	38	-	-
39	OFFICE POWER	20 1	40	SPARE	20 1
41	COOLER LITES	20 1	42	SPARE	20 1

42 CIRCUIT PANEL LISTING					
PANEL - MDP			AMPS: 400	VOLTAGE: 120/208	PHASE: 3Ø
			WIRE: 4W	CAT. NO:	
CRK. NO.	DESCRIPTION	BREAKER	CRK. NO.	DESCRIPTION	BREAKER
		AMP POLE			AMP POLE
1	AC-1/15 RW HEAT	60 3	2	CU-1	40 3
3	-	-	4	-	-
5	-	-	6	-	-
7	AC-2/15 RW HEAT	60 3	8	CU-2	40 3
9	-	-	10	-	-
11	-	-	12	-	-
13	MUA - HOOD	20 3	14	WALK-IN COOLER	30 3
15	-	-	16	-	-
17	-	-	18	-	-
19	EF-1 HOOD	20 3	20	SEWER PLANT	20 3
21	-	-	22	-	-
23	-	-	24	-	-
25	EF-2 HOOD	20 3	26	PARKING LITES	20 2
27	-	-	28	-	-
29	-	-	30	PARKING LITES	20 2
31	-	-	32	-	-
33	-	-	34	-	-
35	PANEL - PP	200 3	36	-	-
37	-	-	38	-	-
39	-	-	40	-	-
41	-	-	42	-	-

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OF SHEETS

PLUMBING EQUIPMENT, METHODS AND MATERIALS PRODUCTS

1. GENERAL:
ALL PRODUCTS USED SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE LOUISIANA STATE PLUMBING CODE, 2015 EDITION.

CONTRACTOR SHALL SUPPLY ONLY THOSE PRODUCTS APPROVED IN WRITING PRIOR TO PROCUREMENT.

2. WATER DISTRIBUTION PIPE:
ALL POTABLE WATER PIPING SHALL BE COPPER TYPE "L", WITH SOLDERED JOINTS FOR 4" OR SMALLER. PROVIDE VALVE STEM EXTENSIONS OF 2" LENGTH FOR ALL VALVES IN INSULATED PIPING.

DIELECTRIC UNIONS SHALL BE INSTALLED WHEREVER ANY DISSIMILAR METALS ARE USED.
CONTRACTOR SHALL SUPPLY OPTIONAL PRICING FOR PEX OR CPVC FOR WATER DISTRIBUTION PIPING.

3. SANITARY SOIL, WASTE AND VENT SYSTEMS:
ALL SANITARY DRAIN, WASTE AND VENT SEWER PIPING SHALL BE CAST IRON SERVICE WEIGHT. PROVIDE NO-HUB COUPLINGS FOR ABOVE GROUND INSTALLATION AND BELL AND SPIGOT JOINTS FOR UNDERGROUND INSTALLATION. PROVIDE 2X GRADE (1/4" PER FT) SLOPE FOR ALL GRAVITY WASTE AND VENT.

CONTRACTOR SHALL SUPPLY OPTIONAL PRICING FOR TYPE "DMV" PVC FOR DRAIN, WASTE AND VENT PIPING.

INSULATE EXPOSED P-TRAPS W/ 1 1/2" THICK FIBERGLASS BLANKET INSULATION. SECURE TO PIPING W/ 304 5/8 12 GA. WIRE.

4. SLEEVES AND ESOUTCHONS:
PROVIDE GALVANIZED SHEET METAL SLEEVES FOR ALL PIPE PENETRATIONS AT FLOORS, CEILINGS, AND PARTITIONS. PROVIDE PIPE SLEEVES TWO PIPE SIZES LARGER THAN PIPE AND/OR INSULATION. CAULK AND INSTALL ESOUTCHONS AS SPECIFIED.

PROVIDE NICKEL PLATED BRASS ESOUTCHONS WITH SPRING LOCK S OR SET SCREWS AT CEILINGS, FLOORS, AND WALLS FOR ALL PIPES. DO NOT USE CHROME PLATED FERROUS METAL ESOUTCHONS.

5. VALVES:
VALVES SHALL BE SOLID BRONZE THROUGH 2" AND BRONZE FITTED FOR LARGER SIZES. PROVIDE FULL-PORT BALL VALVES WITH SOLDER CONNECTIONS.

VALVES SHALL BE RATED AT 125 PSI SWP/200 PSI WOG NIBCO, STOCKHAM, CRANE OR APPROVED EQUIVALENT.

6. ACCESS DOORS:
PROVIDE ACCESS TO ALL PARTS REQUIRING SERVICE SUCH AS VALVES, REGULATORS, TRAPS, ETC. WITH ACCESS DOORS OF THE SIZE REQUIRED TO PROPERLY SERVICE THE ITEM, BUT GENERALLY NOT SMALLER THAN 12" X 12". WHERE ACCESS DOORS CANNOT BE PROVIDED FOR STRUCTURAL OR ARCHITECTURAL REASONS, NOTIFY THE ARCHITECT.

ACCESS DOORS IN PAINTED AREAS SHALL BE PRIME COATED WITH FINISH PAINTING AS SPECIFIED IN OTHER DIVISIONS.

IN WET AREAS OR AREAS WITH CERAMIC TILE FLOORS OR WALLS, THE ACCESS DOORS SHALL BE STAINLESS STEEL OR NICKEL BRASS.

ACCESS DOORS SHALL BE PROVIDED WITH A CONCEALED, KEY-OPERATED LOCK, AND CONCEALED HINGES. ALL LOCKS SHALL BE KEYS ALIKE.

7. CLEANOUTS AND COVERS:
PROVIDE CLEANOUTS AT THE BASE OF EACH STACK AND AS SHOWN ON THE DRAWINGS. SPACING SHALL NOT BE GREATER THAN 50 FEET APART. PROVIDE A CLEANOUT AT EACH CUMULATIVE CHANGE OF DIRECTION OF THE WASTE LINE OF 135 DEGREES, AND AS REQUIRED TO PROPERLY ROD THE SYSTEM.

8. ROOF FLASHING FOR VENT STACKS:
FLASHING SHALL BE LEAD OF NOT LESS THAN FOUR POUNDS PER SQUARE FOOT AND SHALL BE TALL ENOUGH TO TURN INTO THE TOP OF THE VENT PIPE, WHICH SHALL BE 12" ABOVE THE ROOF AND EXTEND OUT FROM THE STACKS AT LEAST 12" ON EACH SIDE.

9. PIPE HANGERS AND SUPPORTS:
HANGERS FOR HORIZONTAL PIPES IN BUILDING SHALL BE ADJUSTABLE AND SUPPORTED BY THREADED RODS EQUIVALENT TO FEE AND MASON #235 OR #400. HANGERS ON BARE COPPER LINES SHALL BE COPPER PLATED. INSULATED LINES SHALL BE PROVIDED WITH A 20 GAUGE MINIMUM SADDLE 12" LONG FOR PIPES 2" AND SMALLER AND 18" LONG FOR LARGER PIPES.

SUPPORT ALL PIPING BELOW THE BUILDING WITH 3/8" STAINLESS STEEL RODS 4'-FOOT ON CENTER AND AT EACH SIDE OF EACH FITTING. FOR EXISTING CONCRETE SLABS, USE THREADED STAINLESS STEEL RODS AND 3/8" CONCRETE TIEBARS. TWIST THE RODS AROUND THE PIPING WITH THREE COMPLETE TURNS AROUND THE VERTICAL ROD. PROVIDE 1'-FOOT LONG, SCHED. 40 PVC SADDLES FOR ALL COPPER AND PVC PIPING. THE SADDLES SHALL BE THE SAME DIAMETER AS THE PIPE.

10. UNIONS:
UNIONS 2" AND SMALLER SHALL BE GROUND JOINT TYPE.

11. FIXTURES AND EQUIPMENT GENERAL:
FURNISH ALL PLUMBING FIXTURES, DRAINS AND EQUIPMENT AS SHOWN ON THE DRAWINGS. IF THE ARCHITECTURAL DRAWINGS DIFFER FROM THE PLUMBING DRAWINGS, THE ARCHITECT SHALL BE NOTIFIED PRIOR TO PROCUREMENT. FURNISH FIXTURES AND OTHER EQUIPMENT COMPLETE WITH ALL REQUIRED AND NECESSARY TRIM, FITTINGS, AND OTHER DEVICES FOR A COMPLETE FINISHED PROJECT.

FIXTURES AND EQUIPMENT SHALL HAVE THE MANUFACTURER'S NAME OR TRADEMARK IMPRINTED ON OR ATTACHED BY METALLIC NAME PLATE. ALL FIXTURES AND ALL TRIM SHALL BE BY THE SAME MANUFACTURER UNLESS NOTED OTHERWISE. TRIM MAY BE OF DIFFERENT MANUFACTURER THAN FIXTURES, BUT EQUIVALENT TO THAT SPECIFIED.

ALL EXPOSED TRIM SHALL BE CHROME-PLATED. TOPS OF ALL FLOOR DRAINS SHALL BE CHROME OR NICKEL BRONZE UNLESS OTHERWISE NOTED.

12. PLUMBING FIXTURES:
GENERAL: THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING FIXTURES WITH ALL ASSOCIATED VALVES, TRIM, CONNECTORS, ETC., SHOWN ON THE CONTRACT DRAWINGS. ALL FIXTURES MUST BE DELIVERED TO THE BUILDING PROPERLY CRATED. ESOUTCHONS SHALL BE CHROME-PLATED BRASS OR STAINLESS STEEL. TRAPS SHALL BE 17-GAUGE AND SHALL HAVE A COUNTERSINK CLEANOUT PLUG.

EXECUTION

13. GENERAL:
ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL GOVERNING CODES AND ACCORDING TO BEST PRACTICES AND ALL PRODUCTS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER THROUGH THEIR WRITTEN INSTRUCTIONS.

GENERAL PLUMBING NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL GOVERNING CODES AND IN ACCORDANCE WITH BEST PRACTICES. ALL PRODUCTS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AS DIRECTED IN THEIR WRITTEN INSTRUCTIONS.
2. ALL PRODUCTS USED SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE LOUISIANA STATE PLUMBING CODE, 2015 EDITION.
3. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING FLOOR AND WALL SLEEVES IN THEIR PROPER LOCATIONS AND FOR INFORMING OTHER TRADES OF THE LOCATION AND SIZE OF CHASES, STACKS, CLEANOUTS, ETC.; THAT WILL RELATE TO THEIR WORK; AND IS RESPONSIBLE FOR PROVIDING ACCESS TO ALL ITEMS REQUIRING ROUTINE MAINTENANCE.
4. PLUMBING CONTRACTOR SHALL INSTALL TEST PLUGS, WOOD PLUGS OR CAPS IN ALL OPEN PIPES AT TIME OF INSTALLATION AND NOT REMOVE UNTIL PIPE IS CONNECTED.
5. PLUMBING VENT RISERS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL BE ALLOWED AND IS ENCOURAGED TO MANFOLD PLUMBING VENTS IN ATTIC IN ORDER TO MINIMIZE ROOF PENETRATIONS. VENT MANFOLDS SHALL COMPLY WITH ALL REQUIREMENTS OF THE LOUISIANA STATE PLUMBING CODE, 2015 EDITION.
6. ALL WATER LINES SHOWN ON DRAWINGS SHALL BE RUN ABOVE CEILING, U.N.C.

14. DISINFECTION:
DISINFECT NEW WATER PIPING (AND EXISTING WATER PIPING AFFECTED BY THE CONTRACTOR'S OPERATIONS) IN ACCORDANCE WITH ANMA C601. FILL PIPING SYSTEMS WITH SOLUTION CONTAINING A MINIMUM OF 50 PARTS PER MILLION OF AVAILABLE CHLORINE AND ALLOW SOLUTION TO STAND FOR A MINIMUM OF 24 HOURS. FLUSH SOLUTION FROM SYSTEMS WITH CLEAN WATER UNTIL MAXIMUM RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION.

15. EXCAVATION AND BACKFILLING:
PERFORM ALL EXCAVATION AND BACKFILLING AS REQUIRED. TRENCHES SHALL BE WIDE ENOUGH FOR PROPER INSTALLATION OF THE PIPE. GRADE THE DITCH BOTTOM FOR PROPER SLOPE AND PROVIDE BELL HOLES TO ALLOW THE FULL BEARING OF THE BARREL. COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS RELATING TO DITCHING.

EXCAVATE 6" BELOW THE PIPE AND FILL WITH COMPACTED OR WETTED SAND TO PIPE GRADE. NO EXCAVATION SHALL BE UNDER OR NEAR FOOTINGS.

16. CONTRACTOR'S RESPONSIBILITIES:
THE CONTRACTOR'S RESPONSIBILITIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: SETTING FLOOR AND WALL SLEEVES IN PROPER LOCATIONS. INFORMING OTHER TRADES OF LOCATION AND SIZE OF CHASES, STACKS, CLEANOUTS, ETC., THAT WILL RELATE TO THEIR WORK. PROVIDING ACCESS TO ALL ITEMS REQUIRING ROUTINE SERVICE.

17. WATER DISTRIBUTION PIPING:
EXTEND FROM THE WATER TIE-IN TO EVERY FIXTURE OR OUTLET REQUIRING HOT OR COLD WATER. PROVIDE A STOP VALVE AND A DRAIN FOR THE PIPING SYSTEM.

PIPE SIZES SHOWN ON THE DRAWINGS ARE NOMINAL DIAMETER. EVERY FIXTURE CONNECTION SHALL BE PROVIDED WITH A STOP VALVE AND AN 3/4" VERTICAL AIR CHAMBER AT THE FIXTURE CONNECTION. (WATER CLOSETS DO NOT REQUIRE AIR CHAMBERS.)

18. BUILDING SANITARY DRAIN, WASTE AND VENTS:
THE SANITARY DRAIN, WASTE AND VENT SYSTEM SHALL BE AS SHOWN ON THE DRAWINGS, AND SHALL INCORPORATE ANY FIELD CHANGES AS REQUIRED TO MEET JOB CONDITIONS. ANY MAJOR CHANGES FROM WHAT IS SHOWN ON THE DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE ARCHITECT.

A FIXTURE SHALL WASH THE BOTTOM OF ALL STACKS. THERE SHALL BE NO HORIZONTAL OFFSET IN VENTS LESS THAN 6" ABOVE THE FLOOR RIM OF THE HIGHEST FIXTURE IN THE GROUP.

19. TESTING:
CONTRACTOR SHALL NOTIFY THE ARCHITECT AT LEAST THREE WORKING DAYS BEFORE ANY TESTS ARE CONDUCTED. NO JOINTS OR FITTINGS SHALL BE CONCEALED UNTIL THEY HAVE BEEN TESTED AND APPROVED. REPEAT TESTS AS NECESSARY UNTIL PROVEN SATISFACTORY. THE FOLLOWING TEST AS DESCRIBED IN THE LOUISIANA STATE PLUMBING CODE, 2015 EDITION, SECTION 5.11, SHALL BE PERFORMED:

SANITARY PIPING SYSTEM

WATER TEST - FILL SYSTEM WITH WATER AND HOLD FOR 45 MINUTES WITHOUT DROP IN WATER LEVEL.

POTABLE WATER SYSTEM

APPLY 150 PSI (WATER PRESSURE) AND HOLD FOR FOUR HOURS WITH NO ALLOWABLE PRESSURE DROP.

IN FREEZING WEATHER ONLY, USE 150 PSI AIR PRESSURE AND HOLD FOR 8 HOURS WITHOUT DROP IN PRESSURE BEYOND THAT EXPECTED FROM TEMPERATURE CHANGES.

INSTALL PRESSURE GAUGE FOR TEST PROCEDURE, AND LEAVE IN PLACE UNTIL WATER SUPPLY IS CONNECTED.

20. SOLDERED PIPE FITTINGS:
CUT THREADS TO FULL DEPTH AND MAKE UP LISTING TEFLON TAPE. USE DRAINAGE PATTERN FITTINGS FOR WASTE AND VENT SYSTEMS.

21. CAST IRON PIPE FITTINGS:
FITTINGS MAY BE NO-HUBS, PUSH TYPE, OR LEAD AND OAKUM. INSTALL AS RECOMMENDED BY THE MANUFACTURER USING TOOLS AS RECOMMENDED. CARE SHALL BE TAKEN TO PREVENT SHIFTING OR SETTLING OF PIPE.

22. SOLDER TYPE FITTINGS:
BRAZE USING A.W. HARRING "DYNALOW" 85 SILVER BRAZING ALLOY. CLEAN PIPE AND FITTINGS BRIGHT WITH SAND PAPER OR WIRE BRUSH AND APPLY PASTE FLUX (LIQUID FLUX IS NOT ACCEPTABLE) AND ASSEMBLE JOINT. APPLY HEAT EVENLY TO THE PIPE FITTINGS AND APPLY SOLDER TO FILL THE JOINT BY CAPILLARY ACTION. CLEAN JOINT OF EXCESS SOLDER BEFORE IT COOLS. FITTINGS DISCOLORED BY HEAT SHALL BE REMOVED AND THE JOINT REMADE.

23. PIPE SLEEVES:
TIGHTLY CAULK ALL ANNUAL SPACES BETWEEN PIPES (FOR INSULATION) AND SLEEVES WITH SILICONE TYPE SEALANT. SLEEVES PASSING THROUGH FLOORS SHALL EXTEND 2" ABOVE THE FLOOR LEVEL TO PREVENT WATER PENETRATION AROUND PIPE. THE SLEEVE SHALL BE SEALED TO THE FLOOR.

24. INSTALLATION OF PIPES:
ALL THREADED PIPES SHALL BE REAMED TO REMOVE ALL CUTTING LIPS FROM THE INSIDE EDGE AND SHALL BE THREADED WITH CLEAN DIES TO THE PROPER DEPTH. CUTS SHALL BE CLEAN AND NOT COUSED OR ROUGH. APPLY LUBRICANT TO MALE THREAD ONLY.

ALL COPPER PIPES SHALL BE REAMED TO REMOVE ALL CUTTING LIPS FROM INSIDE EDGE. PIPE SHALL BE LAID OR SUPPORTED IN A STRAIGHT AND TRUE MANNER WITH FITTING USED TO MAKE ALL CHANGES IN DIRECTION.

ALL PIPES SHALL BE CUT CLEAN AT PRECISE ANGLE. HAND CUTTING OF PVC PIPE IS NOT ACCEPTABLE.

25. PIPE HANGERS AND SUPPORTS:
SUPPORT ALL SUSPENDED PIPE WITH PROPERLY ADJUSTABLE SWIVEL HANGERS WITH MAXIMUM SPACING AS FOLLOWS: TRACT
CAST IRON - ONE HANGER FOR EACH SECTION OF CAST IRON PIPE.

SOLDERED AND SOLDER PIPE - 6'-FOOT SPACING FOR PIPE 1 1/2" AND SMALLER, AND 10-FOOT SPACING FOR 2" AND LARGER.

ALL THREADED HANGER RODS SHALL BE USED AS FOLLOWS:
PIPE 2" AND SMALLER - 3/8"
PIPE 2 1/2" TO 4" - 1/2"
PIPE ABOVE 4" - 5/8"

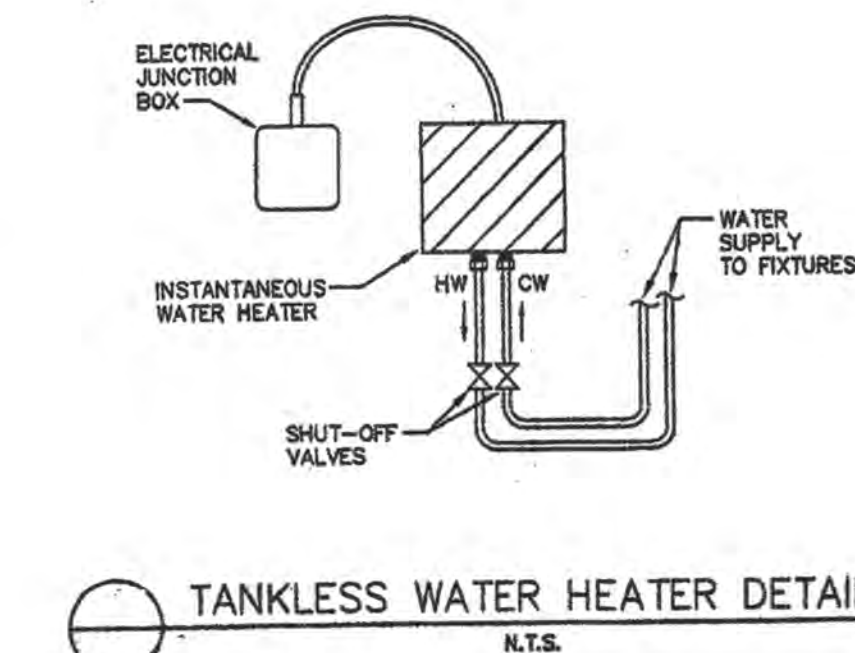
SUPPORT ALL VERTICAL PIPES WITH KNEE ANCHORS OR FLOOR CLAMPS AND BRACE AS REQUIRED. CLAMPS AND HANGERS ON INSULATED PIPE SHALL BE PROVIDED WITH A HEAVY GALVANIZED BEARING PLATE NOT LESS THAN FOUR INSULATION DIAMETERS LONG.

BARE COPPER PIPES SHALL BE SUPPORTED WITH COPPER PLATED HANGERS. SUPPORT HANGERS FROM BEAM CLAMPS, INSERTS IN CONCRETE, JOIST CLAMPS, ETC., AS NECESSARY TO SUPPORT THE WEIGHT. NO WIRE OR STRAPS ARE TO BE USED FOR HANGERS. POWER-ACTIVATED ANCHORS ARE NOT ALLOWED.

26. INSULATION:
INSULATE ALL PIPING SYSTEMS AS FOLLOWS:
HOT WATER PIPING - INSULATE ALL HOT WATER PIPING WITH 1" FIBERGLASS INSULATION WITH ALL SERVICE JACKET.

COLD WATER PIPING - INSULATE ALL COLD WATER PIPING WITH 1/2" THICK CLOSED CELL FOAM INSULATION OR FIBERGLASS INSULATION WITH ALL SERVICE JACKET.

27. PROTECTION DURING CONSTRUCTION:
INSTALL TEST PLUGS, WOOD PLUGS OR CAPS IN ALL OPEN PIPES AT TIME OF INSTALLATION AND DO NOT REMOVE UNTIL PIPE IS CONNECTED. DRAIN ALL WATER FROM LINES TO PREVENT FREEZING. PROTECT ALL FINISHED SURFACES OF FIXTURES AND BRASS FROM ANY DAMAGE. FIXTURES OR BRASS OF ANY TYPE THAT ARE DAMAGED, SCRATCHED OR DISCOLORED SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.



GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, STATE AND CITY REGULATIONS AND ORDINANCES.

2. ALL MATERIALS SHALL BE NEW AND U.L. APPROVED.

3. CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY ALL INSPECTION FEES. NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTOR UPON COMPLETION.

4. ALL CUTTING SHALL BE DONE BY THIS CONTRACTOR. NO CUTTING OF STRUCTURAL MEMBERS SHALL BE DONE WITHOUT PERMISSION OF THE ARCHITECT. ANY DAMAGE TO FINISHED SURFACES TO BE REPAIRED BY THIS CONTRACTOR AT HIS OWN EXPENSE.

5. ALL SERVICES IN EXISTING BUILDING ARE TO BE KEPT IN OPERATION AT ALL TIMES, EXCEPT WHEN SPECIFIC PERMISSION IS GIVEN TO DO OTHERWISE. BEFORE ANY SERVICES ARE INTERRUPTED, ARRANGEMENTS SHALL BE MADE WITH THE OWNER TO DO THIS WORK AT A TIME MOST CONVENIENT TO THE OCCUPANTS.

6. THE BIDDER SHALL VISIT THE SITE OF PROPOSED WORK SO THAT HE MAY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS INVOLVED IN THE EXECUTION OF THE CONTRACT. HE WILL BE ALLOWED NO ADDITIONAL COMPENSATION FOR FAILURE TO BE SO INFORMED.

7. ALL NEW WORK CONNECTING TO THE EXISTING FIRE ALARM SYSTEM SHALL BE DONE AS WORK OF THIS CONTRACT IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 72.

8. COORDINATE WORK WITH OWNER'S REPRESENTATIVE FOR OWNER FURNISHED AND/OR OWNER INSTALLED EQUIPMENT.

9. ALL EXISTING RACEWAYS, JUNCTION BOXES, ETC., OR OTHER ELECTRICAL EQUIPMENT NOT TO BE REUSED SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

10. ALL ELECTRICAL EQUIPMENT REMOVED AND NOT TO BE REUSED SHALL BE STORED IN ONE LOCATION ON THE SITE. ANY EQUIPMENT AND MATERIAL WHICH THE OWNER DOES NOT WISH TO RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY HIM.

11. CONTRACTOR SHALL VERIFY WITH THE OWNER, PRIOR TO ROUGH-IN, THE EXACT LOCATION OF ALL WALL SWITCHES, NEW RECEPTACLES, TELEPHONE AND DATA, ETC. WHERE NOW OUTLETS ARE TO BE INSTALLED IN EXISTING WALLS, CONTRACTOR SHALL CHASE EXISTING WALLS AS REQUIRED. PATCH AND REFINISH EXISTING WALLS.

12. ALL CONDUCTORS SHALL BE TYPE #12 AWG OR LARGER AND SHALL BE COPPER WITH TYPE THW/THHN INSULATION AND SHALL BE CONTAINED IN MINIMUM 1/2" SIZE ELECTRIC METALLIC TUBING EXCEPT THAT, WHERE PERMITTED BY THE NATIONAL ELECTRICAL CODE AND THE LOCAL BUILDING CODE, TYPE MC METALLAD CABLE MAY BE USED FOR 120-VOLT BRANCH CIRCUITS CONCEALED IN THE STUD PARTITIONS AND FURRED CEILING. CONDUCTORS INCLUDING METALLIC-SHEATHED CABLES SHALL BE COPPER #2 AWG OR LARGER AS REQUIRED BY THE LOAD OR AS NOTED. ALL WIRE SIZE SHALL BE SIZED ACCORDING TO THE NATIONAL ELECTRICAL CODE. SIZE OF TUBING SHALL BE AS REQUIRED BY NUMBER OF CONDUCTORS.

13. UP TO FIVE CONDUCTORS (#12S) AND ONE DEVICE WILL BE PERMITTED IN A STANDARD (2" H X 2" W 2-3/4" D) SWITCH BOX. WHERE MORE CONDUCTORS ARE SHOWN AND FOR POWER AND TELEPHONE OUTLETS, USE A 4" SQUARE X 1-1/2" DEEP, OR LARGER WITH RAISED DEVICE COVER. ALL CEILING BOXES TO BE 4-1/16" SQUARE X 1-1/2" DEEP OR LARGER.

14. PROVIDE BONDING AROUND CONCENTRIC AND ECCENTRIC KNOCKOUTS ON EQUIPMENT.

15. THE INSTALLATION OF ALL NEW FIRE ALARM DEVICES SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A QUALIFIED (Q.A.C.E.T.) FIRE ALARM TECHNICIAN. AFTER ALL WIRING AND CONSTRUCTION IS COMPLETED, SYSTEM SHALL BE CERTIFIED BY THE EQUIPMENT SUPPLIER OR LOCAL FACTORY AUTHORIZED EQUIPMENT REPRESENTATIVE IN WRITING AS BEING COMPLETE AND PROPERLY OPERATING. THE CERTIFICATION LETTER SHALL INDICATE THAT EACH DEVICE HAS BEEN INDIVIDUALLY TESTED. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO THE START OF THE WORK.

16. THE CONTRACTOR SHALL COORDINATE THE ROUTING OF THE RACEWAYS AND THE LOCATION OF THE JUNCTION BOXES WITH THE DUCTWORK AND SPRINKLER PIPING, EXISTING STRUCTURES, ETC.

17. CIRCUIT CONTINUITY FOR EXISTING BRANCH CIRCUITS WHICH ARE INTERRUPTED BY THE NEW WORK SHALL BE MAINTAINED. CONTRACTOR SHALL PROVIDE ALL WIRING, RACEWAYS, JUNCTION BOXES, ETC., AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY.

18. CONTRACTOR SHALL PROTECT EXISTING EQUIPMENT THAT MIGHT BE DAMAGED DURING CONSTRUCTION.

19. RECESSED MEMBERS BY APPROVED FIXTURE SUPPORT CLIPS (4 REQUIRED PER FIXTURE) PROVIDED BY THE CONTRACTOR FOR THE NEW LIGHTING FIXTURES. THE CEILING SHALL BE SUPPORTED AT EACH CORNER OF EACH OF THE RECESSED MOUNTED LIGHTING FIXTURES.

20. PROVIDE A MINIMUM OF ONE OUTLET BOX FOR EVERY TWO RECESSED FLUORESCENT FIXTURES. PROVIDE A 6-FOOT LONG FLEXIBLE METAL CONDUIT (#12 AWG TYPE THHN CONDUCTORS) FOR CONNECTION TO EACH RECESSED FLUORESCENT FIXTURE.

21. UNLESS OTHERWISE INDICATED, NEW FLUORESCENT LAMPS SHALL BE T-8 COOL WHITE RAPID STAR, MANUFACTURED BY GE, PHILIPS, WESTINGHOUSE, OR SYLVANIA.

22. WHERE RACEWAYS PENETRATE FIRE RATED OR SMOKE PARTITIONS, FIRE CAULK WITH U.L. RATED SEALANT.

23. EACH BRANCH CIRCUIT FOR CONVENIENCE RECEPTACLES AND/OR RECEPTACLES FOR DATA EQUIPMENT SHALL HAVE A PHASE CONDUCTOR. A SEPARATE NEUTRAL CONDUCTOR SHALL BE INSTALLED FOR EACH PHASE CONDUCTOR.

24. TELEPHONE AND/OR DATA CABLES SHALL BE FURNISHED AND INSTALLED BY OTHERS. PROVIDE JUNCTION BOXES, CONDUIT, AND PULL-STRINGS.

25. MOUNTING HEIGHTS OF ELECTRICAL BOXES FROM FINISHED FLOOR LINES.

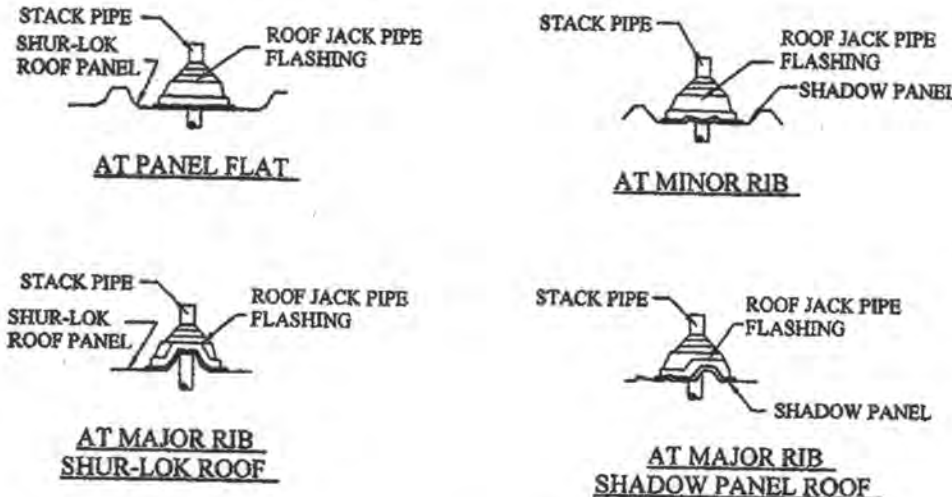
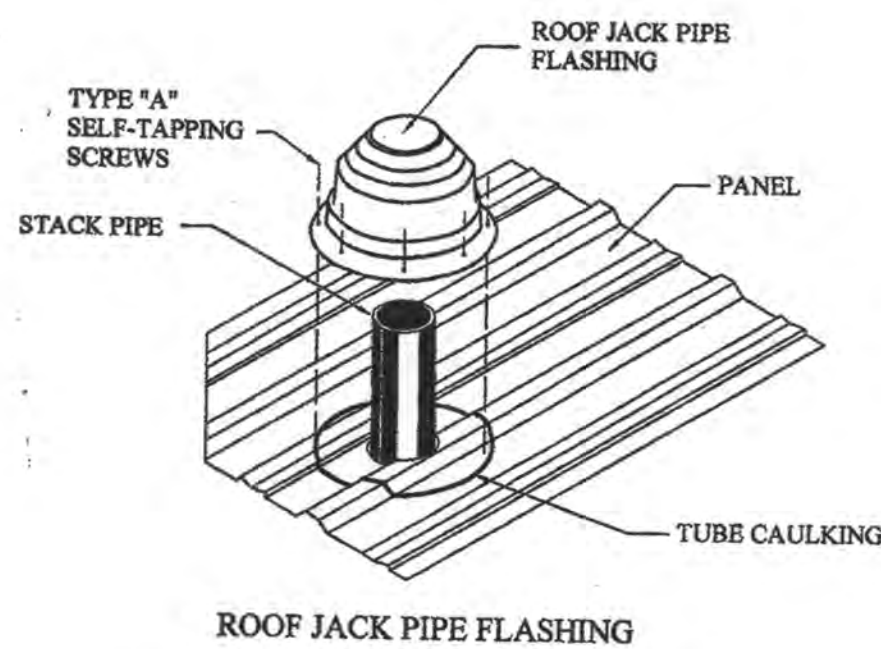
- A. RECEPTACLES: 18" OR 6" ABOVE WORKING SURFACES SUCH AS CABINETS, COUNTERS, ETC.
- B. SWITCHES: 48" ABOVE FLOORS OR AS NOTED.
- C. CLOCK OUTLETS: 12" BELOW CEILING OR AS NOTED
- D. THERMOSTATS: 48"
- E. TELEPHONE OUTLETS: SAME AS RECEPTACLES
- F. WALL SCONCES: 72" TO CENTER LINE OF JUNCTION BOX
- G. BRACKETS ABOVE LAVATORIES: 8" ABOVE MIRROR TO CENTERLINE OF OUTLET.
- H. DATA LINE OUTLET: 18"
- I. PANELBOARD: 6'-6" TO TOP
- J. GROUND FAULT INTERRUPTER: 18" OR AS NOTED.
- K. GREAT EXTERIOR: 18"
- L. DOOR BELL (CHIME) 90"
- M. DOOR BELL (BUTTON) 48"
- N. DISCONNECT SWITCH: 48"
- O. FIRE ALARM STATION: 48"
- P. HORN/STROBE DEVICE: 72"

26. ALL FIRE/SMOKE ALARM SYSTEMS SHALL BE INSTALLED ACCORDING TO THE LATEST NFPA 72. COMPLY WITH STATE OF LOUISIANA FIRE MARSHAL REQUIREMENTS.

27. ALL ELECTRICAL WORK SHALL COMPLY TO LATEST ACCEPTED EDITION ON THE NATIONAL ELECTRICAL CODE AND NFPA.

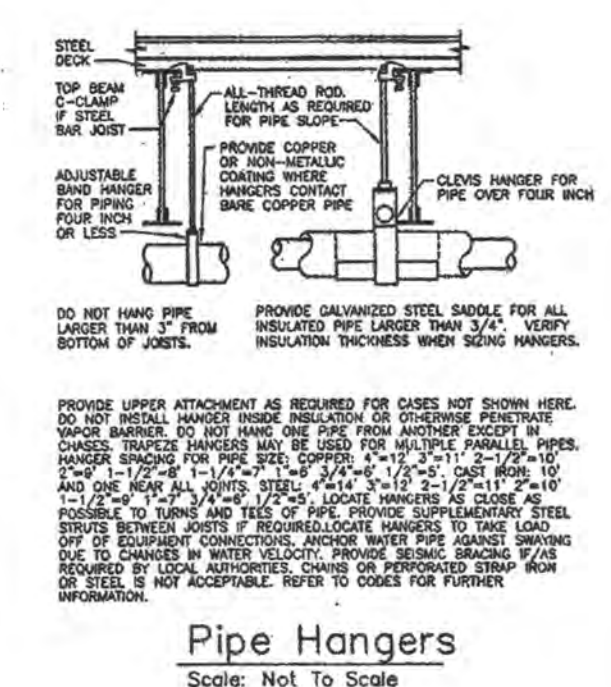
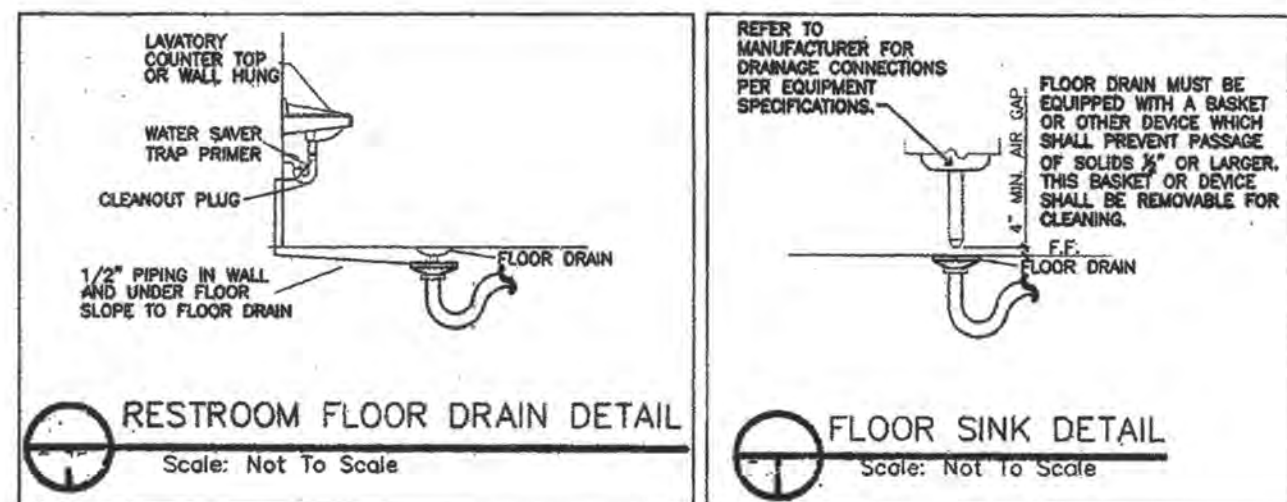
MISCELLANEOUS PLUMBING ITEMS

- A. VB - 1, VACUUM BREAKER: INSTALL VACUUMS BREAKER ON COLD WATER INLET TO WATER HEATER UNIT SHALL BE EQUAL TO WAITS 36 A.
- B. WHA, WATER HAMMER ARRESTORS: STAINLESS STEEL, BELLOWS / COMPRESSION CHAMBER TYPE, PRE - CHARGED AND PERMANENTLY SEALED AT THE FACTORY. EQUAL TO SMITHS HYDROLITE # 5005.
- C. INTERIOR FINISHED FLOOR CLEANOUT: SERIES 58660 BY JOSAM OR EQUAL. LAQUERED CAST IRON, TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR AND ADJUSTABLE NICKEL, BRONZE STRAINER, ROUND WITH SCORIATED COVER IN SERVICE AREA AND ROUND WITH DEPRESSED COVER TO ACCEPT FLOOR FINISH IN FINISHED FLOOR AREAS.
- D. CLEANOUTS AND TEST TEES: FLOOR CLEANOUTS SHALL BE JOSAM SERIES 58340, ZURN Z1425 - 3 OR APPROVED EQUAL. WALL CLEANOUTS SHALL BE JOSAM SERIES 58710, ZURN Z1440 - 1 OR APPROVED EQUAL. EXTERIOR CLEANOUTS SHALL BE JOSAM SERIES 58310, ZURN Z1420 - 27 OR APPROVED EQUAL, SET IN 15" X 15" X 6" CONCRETE PAD.
- E. VALVE BOXES: EACH GATE VALVE SHALL BE PROVIDED WITH AN ADJUSTABLE, TWO PIECE, CAST IRON VALVE BOX OF A SIZE SUITABLE FOR THE VALVE. THE HEAD SHALL BE ROUND AND THE LID SHALL HAVE THE WORD "WATER" CAST ON IT. THE LEAST DIAMETER OF THE SHAFT OF THE BOX SHALL BE 5". EACH BOX SHALL BE GIVEN A HEAVY COAT OF BITUMINOUS PAINT AND SET IN AN 18" X 18" X 6" CONCRETE PAD.
- F. BP - 1, BACKFLOW PREVENTER: REDUCED PRESSURE EQUAL TO WATTS WITH AIR GAP AND STRAINER. PIPE DRAIN TO FLOOR DRAIN. EQUAL PRODUCTS BY FERCO, HERSEY, ZURN.
- G. SHOCK ABSORBERS: SHOCK ABSORBERS SHALL BE INSTALLED ON ALL HOT AND COLD WATER SUPPLIES NEAR THE FAUCET. SHOCK ABSORBERS SHALL BE EQUAL TO PRECISION PLUMBING PRODUCTS, INC. WITH SIZES AS RECOMMENDED BY THE MANUFACTURER.



- RECESSION PROCEDURE
1. FIELD CUT HOLE IN ROOF PANELS.
 2. FIELD CUT HOLE IN TOP OF ROOF JACK.
 3. STRETCH ROOF JACK OVER PIPE AND SLIDE DOWN TO ROOF PANEL (WET PIPE IF NECESSARY)
 4. BEND ROOF JACK BASE TO FIT PANEL AND ATTACH WITH TYPE A SELF-TAPPERS.

TYPICAL ROOF FLASHING BOOT



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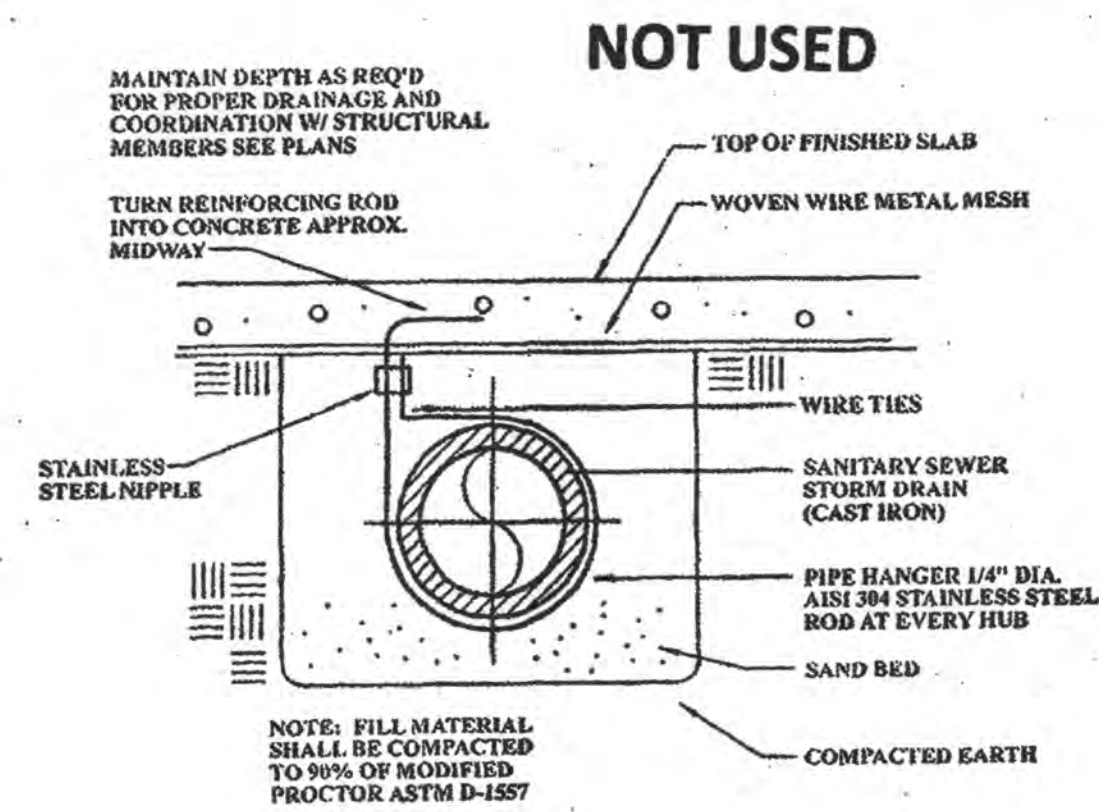


TYPICAL PLUMBING NOTES

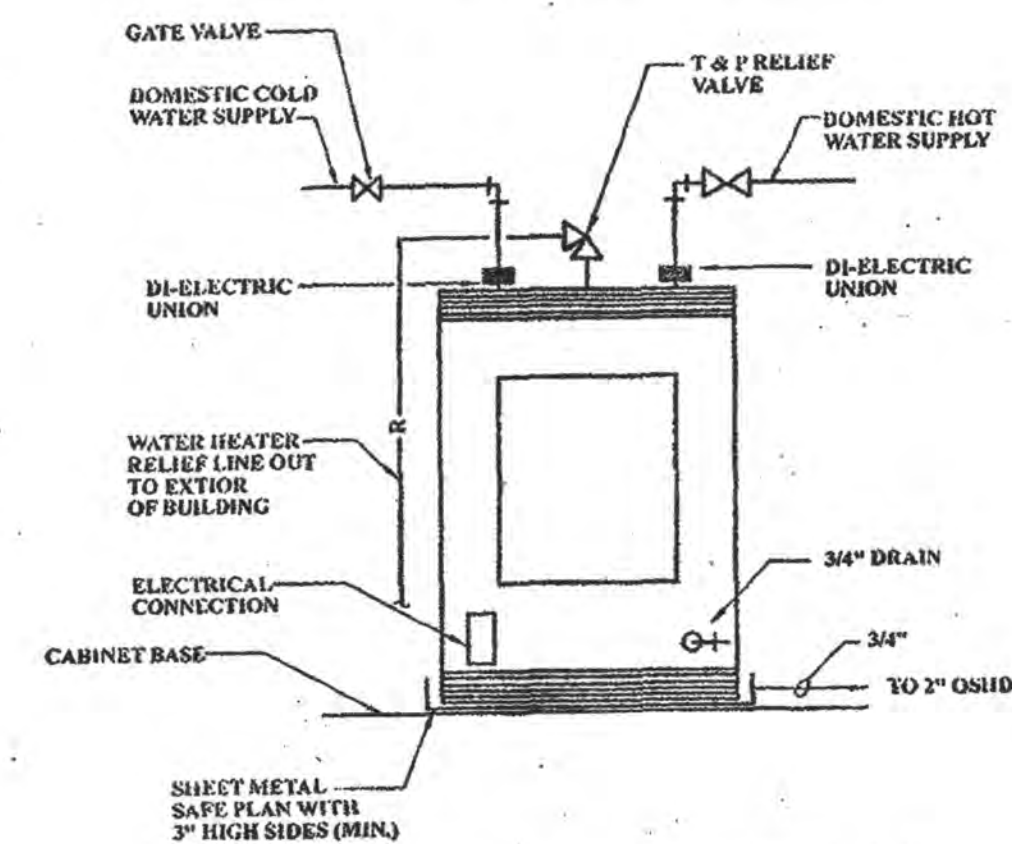
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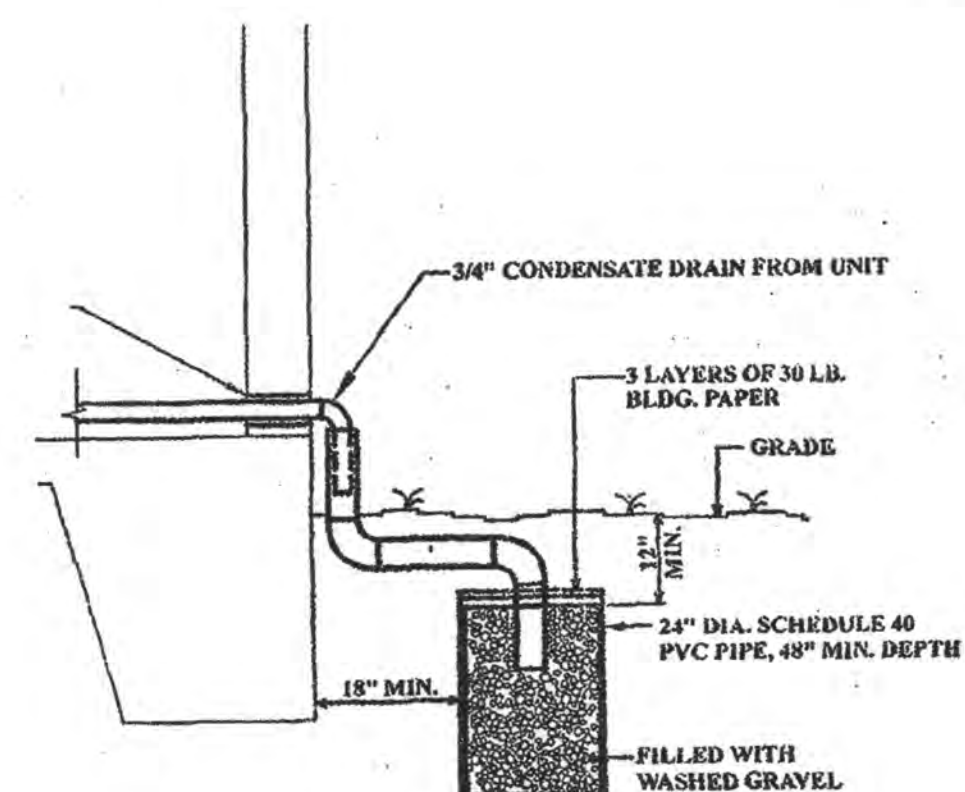
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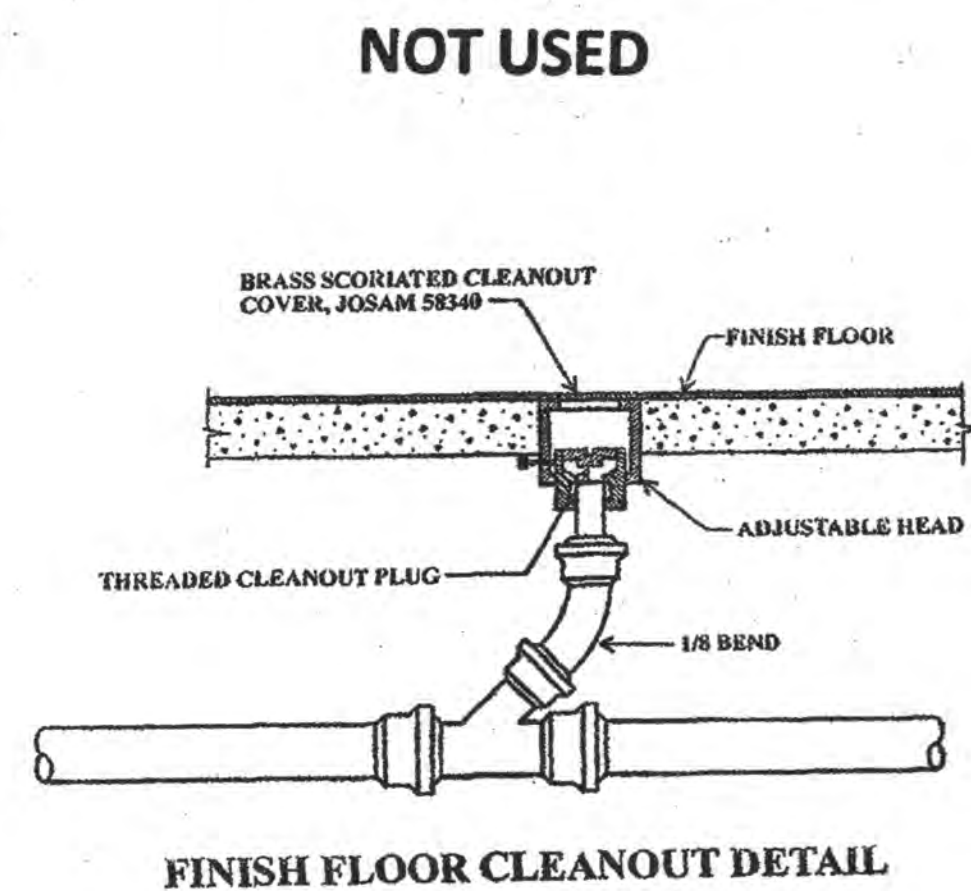
SEWER LINE SUPPORT DETAIL



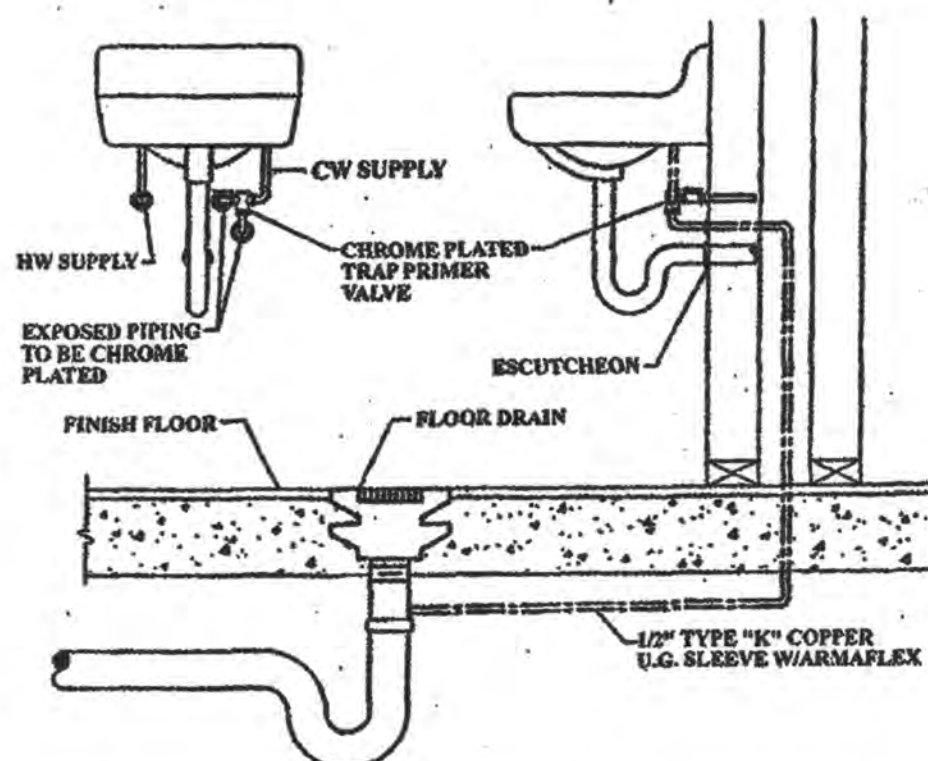
TYPICAL ELECTRIC W/H DETAIL



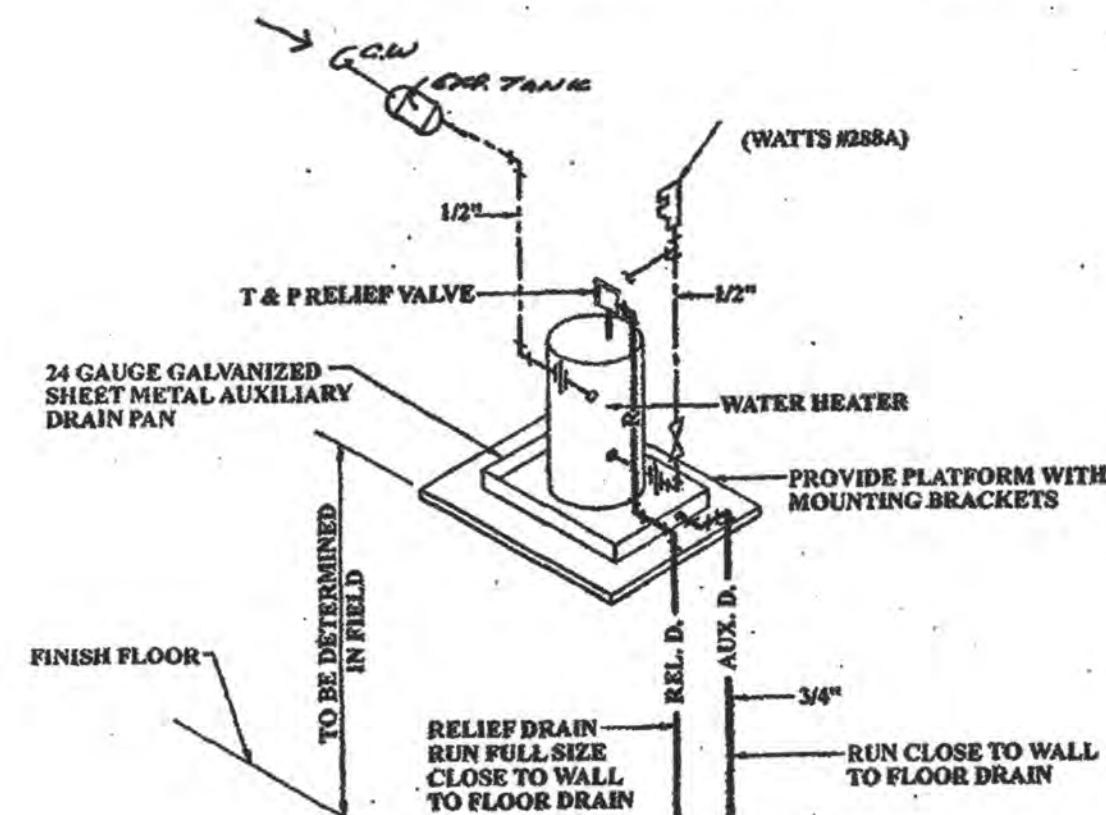
CONDENSATE SHELL DRAIN DETAIL



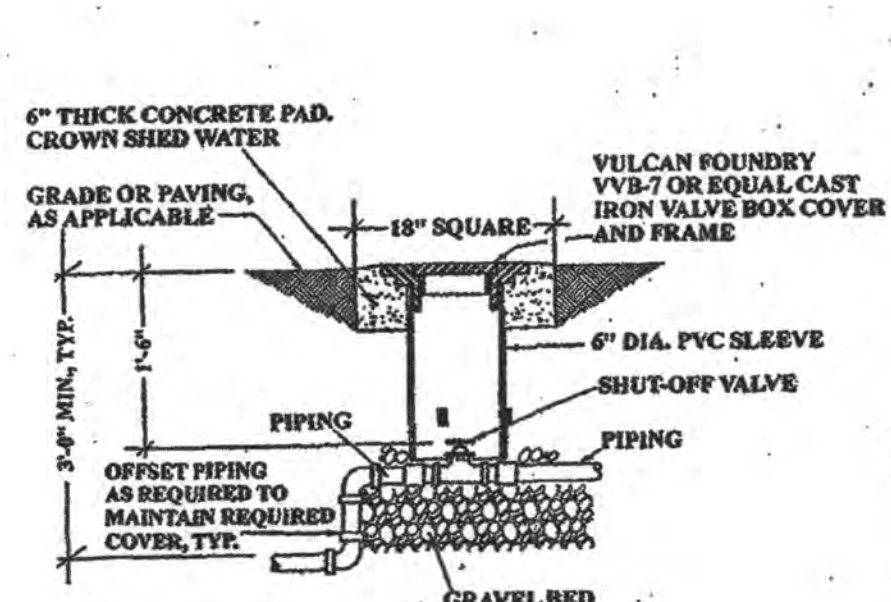
FINISH FLOOR CLEANOUT DETAIL



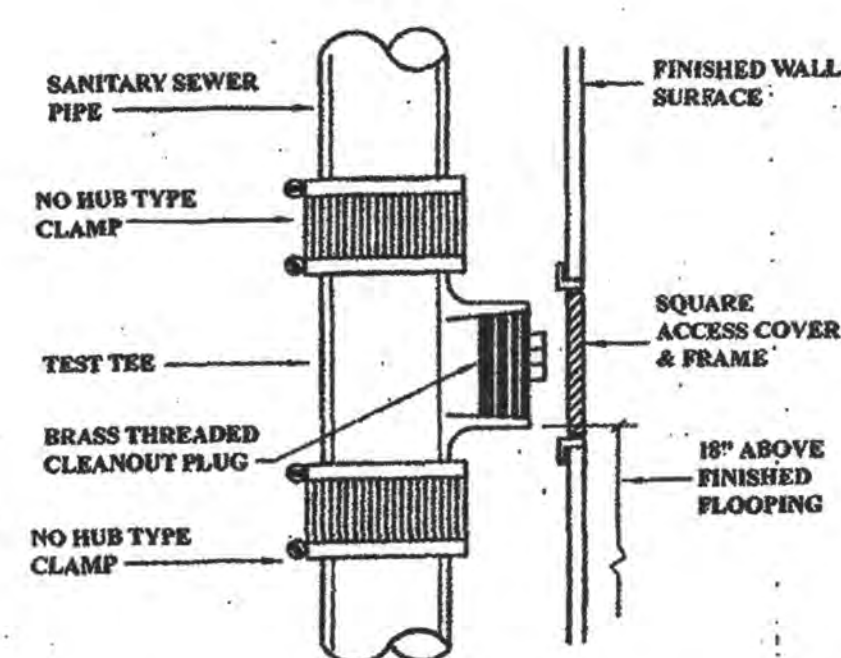
TRAP PRIMER INSTALLATION DETAIL



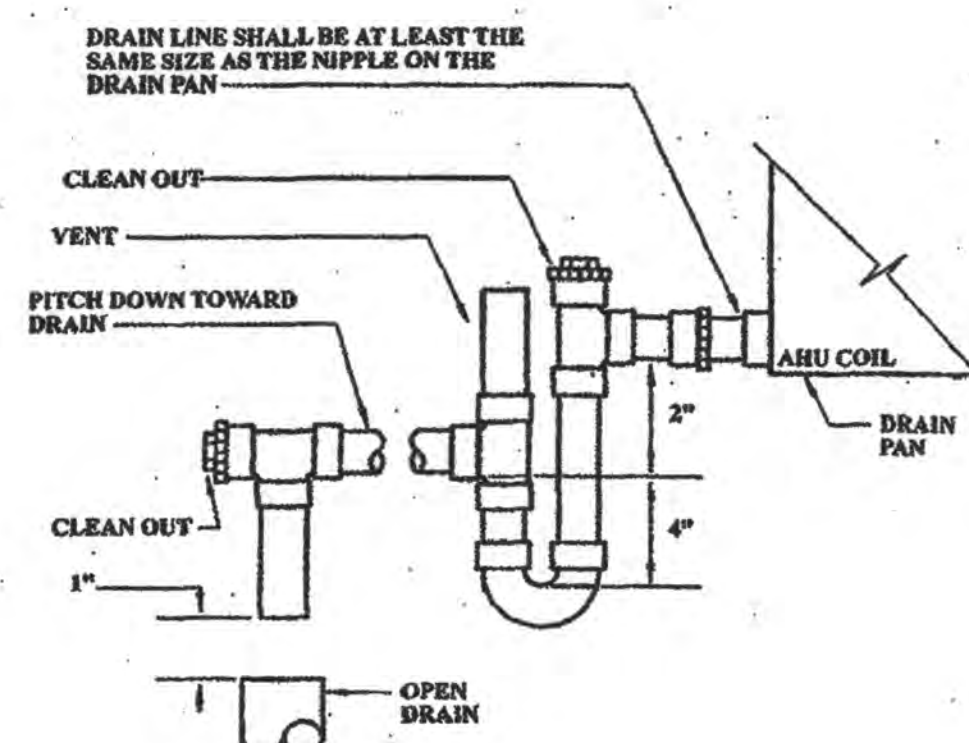
SHELF MOUNTED WATER HEATER DETAIL



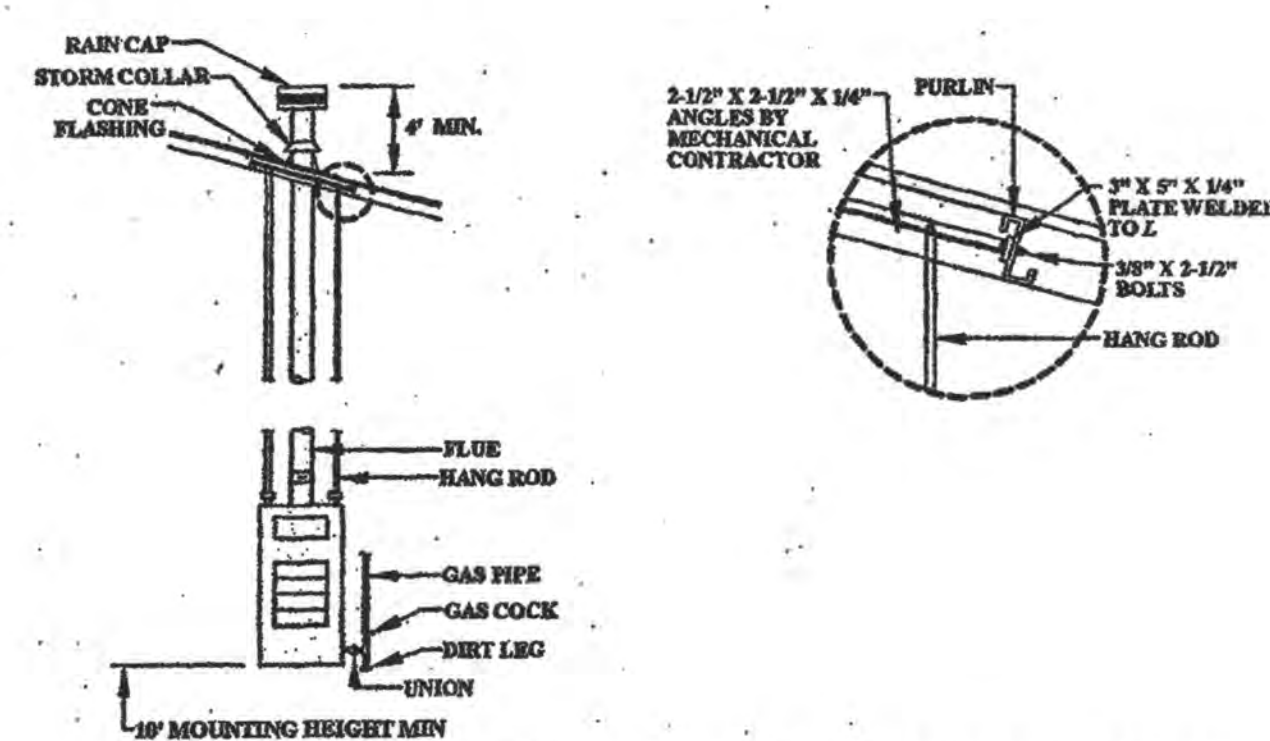
DOMESTIC CW VALVE BOX DETAIL



WALL CLEANOUT DETAIL

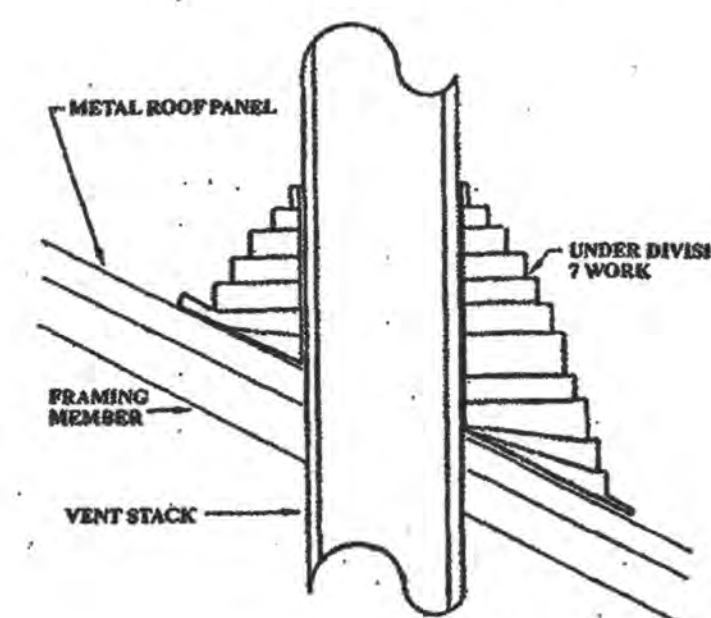


AIR HANDLING UNIT DRAIN TRAP

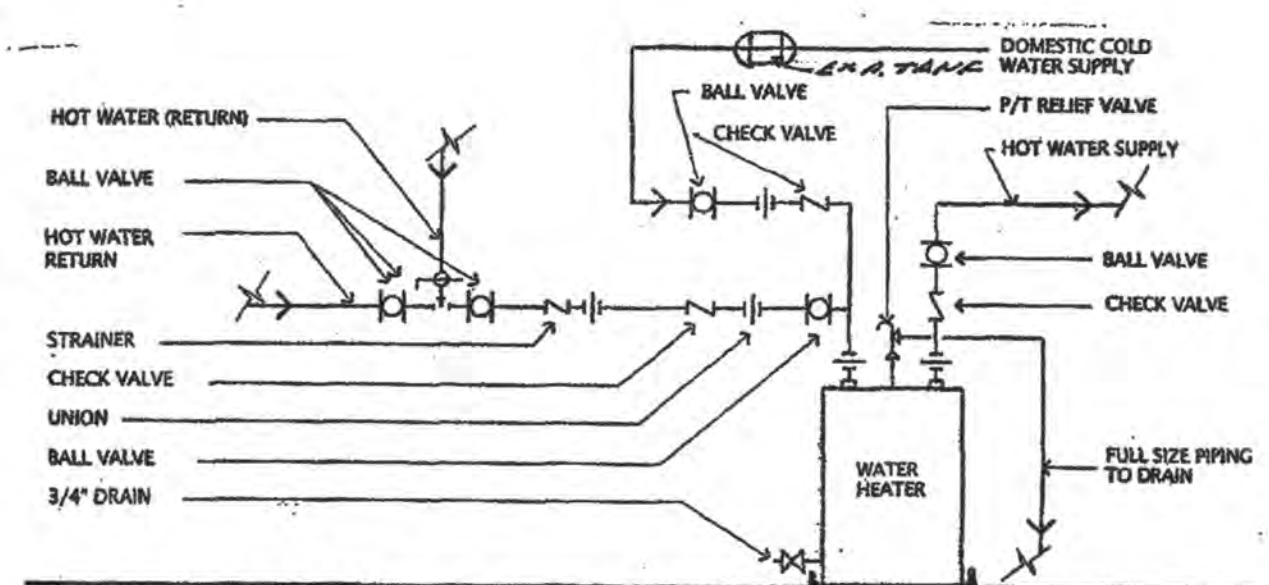


SUSPENDED GAS HEATER DETAIL

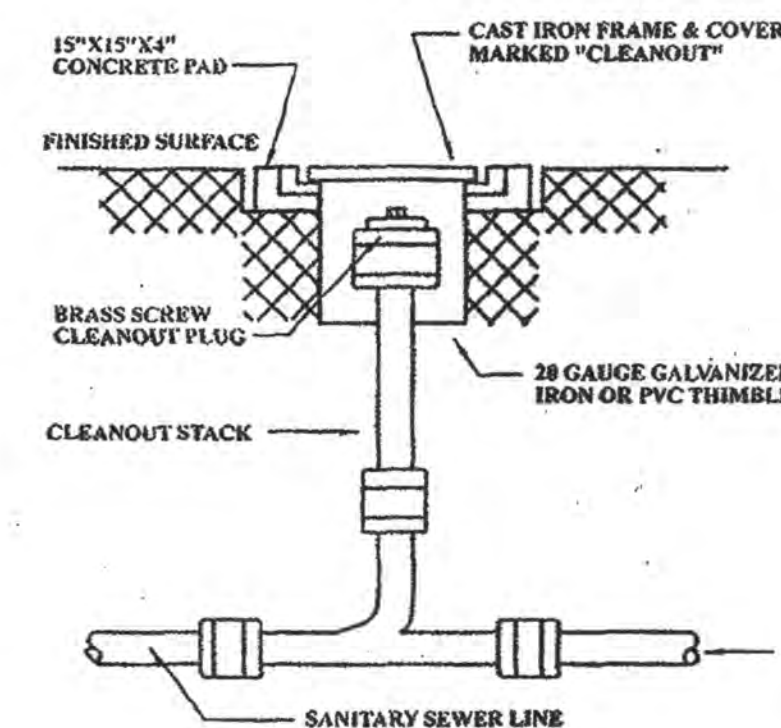
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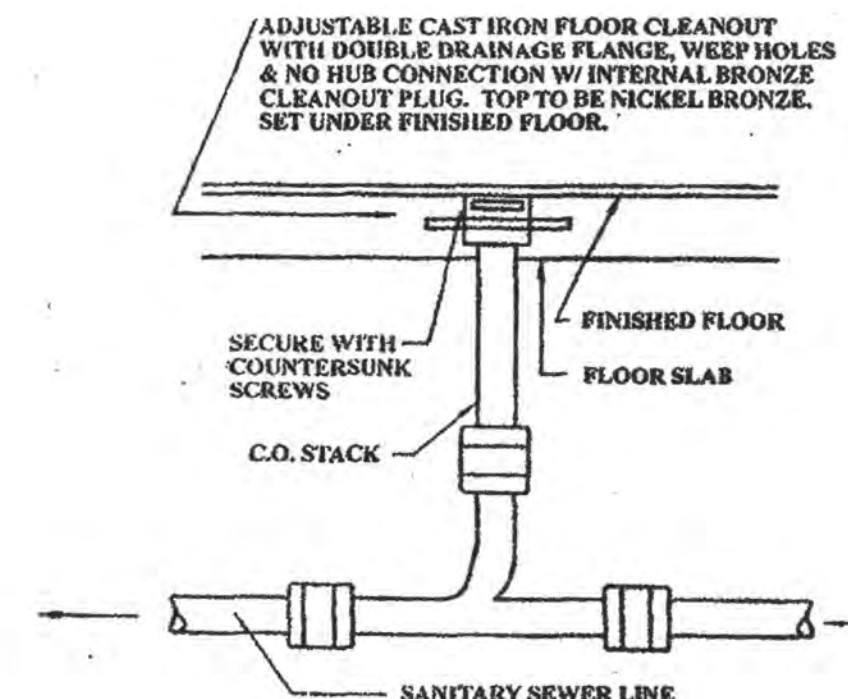
VENT FLASHING DETAIL



WATER HEATER SCHEMATIC



OUTSIDE C.O. DETAIL



INSIDE C.O. DETAIL

FIXTURE CONNECTION SCHEDULE								
MARK	DESCRIPTION	TRAP SIZE	WASTE	VENT	COLD WATER	HOT WATER	MAX. FLOW GPM	REMARKS
	WATER CLOSET	INTEGRAL	4"	2"	1"	-	-	WALL HUNG-FLUSH VALVE
	WATER CLOSET		4"	2"	1"	-	-	HANDICAP
	LAVATORY *	1 1/4" x 1 1/2"	2"	1 1/2"	1/2"	1/2"	-	WALL HUNG-HANDICAP
	LAVATORY *	1 1/4" x 1 1/2"	2"	1 1/2"	1/2"	1/2"	-	WALL HUNG
	SINK *	1 1/4" x 1 1/2"	2"	1 1/2"	1/2"	1/2"	-	STAINLESS STEEL
	SERVICE SINK *	3"	3"	1 1/2"	1/2"	1/2"	-	FLOOR MOUNTED
	E.W.C.	1 1/4" x 1 1/2"	2"	1 1/2"	1/2"	-	-	HANDICAP
	URINAL	INTEGRAL	2"	1 1/2"	3/4"	-	-	WALL HUNG-HANDICAP
	WATER CLOSET	INTEGRAL	4"	2"	3/8"	-	-	TANK-TYPE, ELONG.
WH	WATER HYDRANT	-	-	-	3/4"	-	-	FREEZEPROOF W/VACUUM BREAKER
FD	FLOOR DRAIN	-	-	-	1/2"	-	-	SEE FLOOR PLAN FOR SIZES
WHA	WATER HAMMER ARRESTOR	-	-	-	1"	-	-	SEE FLOOR PLAN FOR SIZES

* INSTALL TRUEBRO INC. "HANDI LAV-GUARD" ON PIPING BENEATH LAVATORIES AND SINKS.

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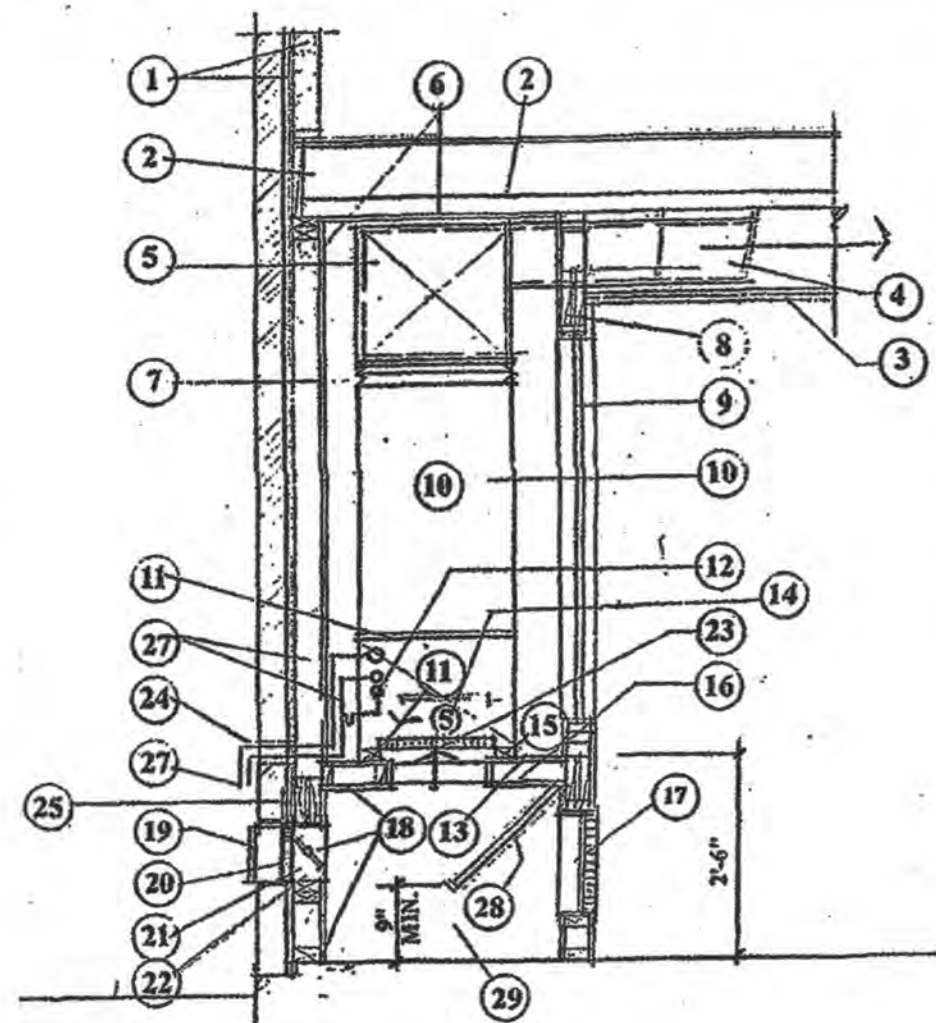


TYPICAL PLUMBING DETAILS

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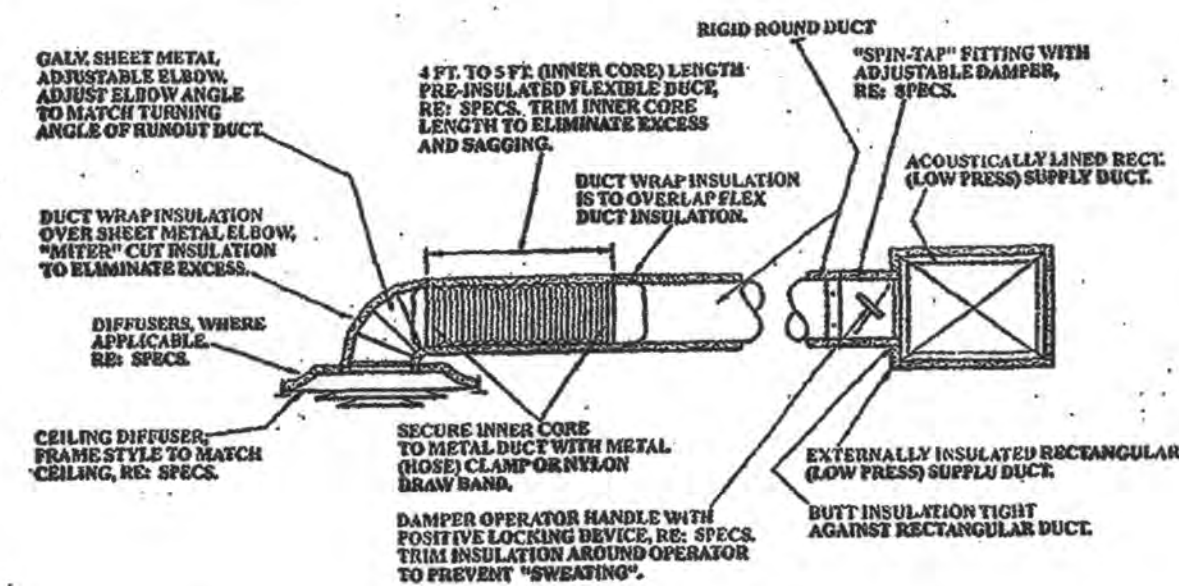


HVAC DETAIL NOTES:

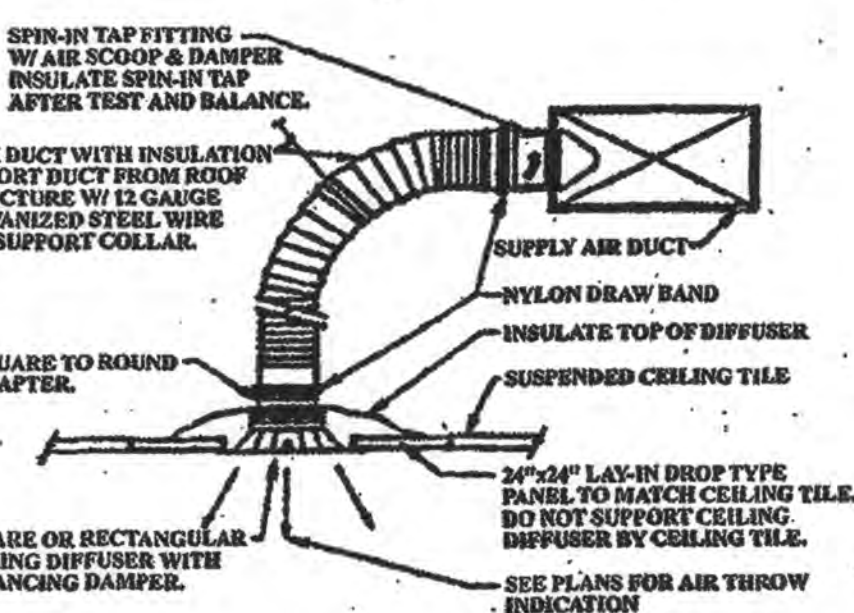
- EXISTING EXTERIOR WALL.
- EXISTING FLOOR SYSTEM.
- FURNISHED CEILING REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHTS.
- INSULATED SUPPLY DUCT.
- INSULATED SUPPLY DUCT MAIN DUCT.
- 5/8" FIRE RATED OFFSHORE BOARD ALL WALLS AND CEILINGS OF HVAC CLOSET.
- FLEXIBLE CONNECTION.
- FRAMED DOOR OPENING OF HVAC CLOSET.
- HVAC CLOSET DOOR.
- VERTICAL AIR HANDLER.
- COIL UNIT-FULL CASED MULTI-POSITION TYPE.
- 3/4" CONDENSATION DRAIN LINE WITH 1/2" TRAP. CONNECT TO EITHER ROUSE.
- 20 GA. GALV. SHEET METAL OVER PLYWOOD PLATFORM.
- SMOKE DETECTOR OR FIRESTAT AS SPECIFIED.
- 2"x4" BLOCKING UNDER UNIT TO ALLOW TRAPPING FOR CONDENSATE DRAIN.
- 2"x4" PLATFORM FRAMING WITH 1/2" PLYWOOD FOR.
- RETURN AIR WALL GRILL-REFER TO DRAWINGS FOR SIZE.
- LINE RETURN AIR FLEXIBLE WITH 1" ACOUSTIC DUCT LINER.
- 8"x16" OUTSIDE AIR (OSA) ALUMINUM WALL GRILL WITH INSECT SCREEN EQUAL TO RUSKIN MODEL EL-211 OR EQUAL.
- AUTOMATIC FIRE DAMPER (AFD).
- MANUAL DAMPER.
- SHEET METAL SLEEVE.
- FLTER.
- METAL WALL SLEEVE WITH SEALANT.
- ANGLE 3"x4"x1/4" OVER LOUVER OPENING WITH THRU-WALL FLASHING.
- SEAL ALL WALL PENETRATIONS BY DUCTWORK.
- REFRIGERANT LINES-SIZE PER MANUFACTURER'S SPECIFICATION. INSULATE ALL LINES.
- NOISE Baffle-1/2" PLYWOOD WITH 1" DUCT LINER BOTH SIDES.
- RETURN AIR PLENUM.

TYPICAL HVAC VERTICAL UNIT ON EXTERIOR WALL DETAIL

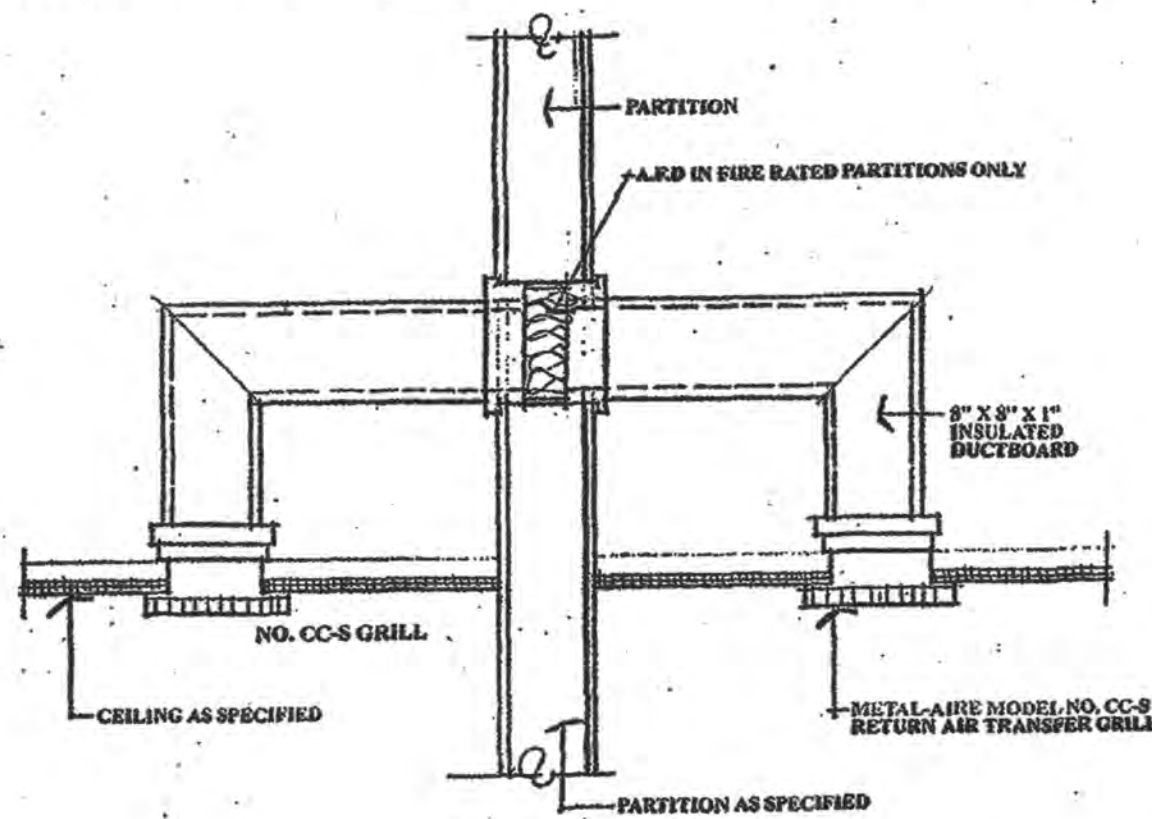
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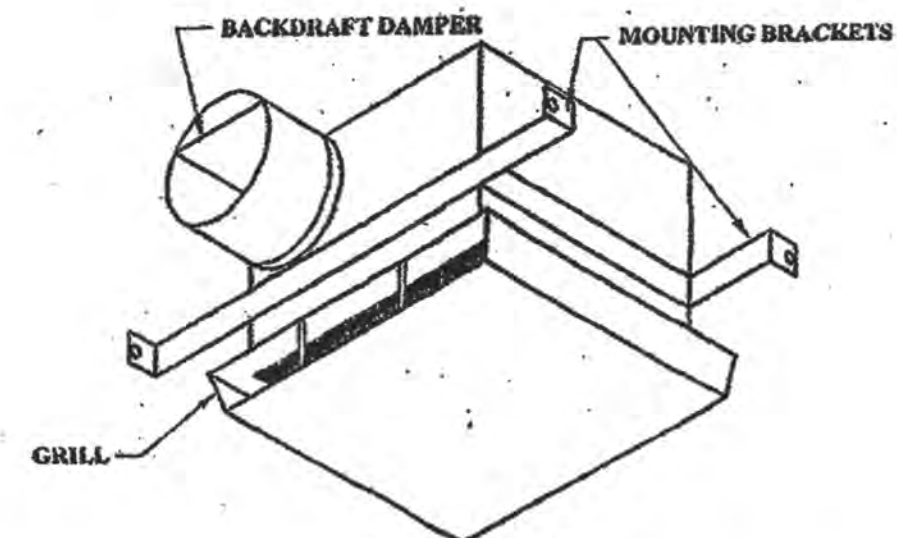
ROUND DUCT BRANCH RUNOUT CONNECTION DETAIL



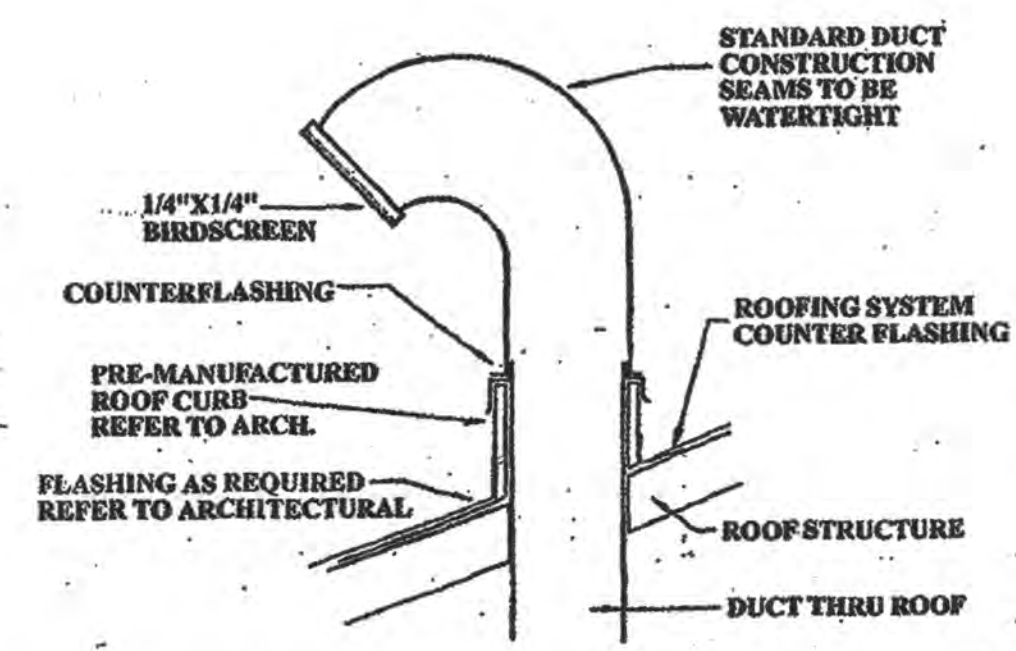
TYPICAL LAY-IN CEILING DIFFUSER DETAIL



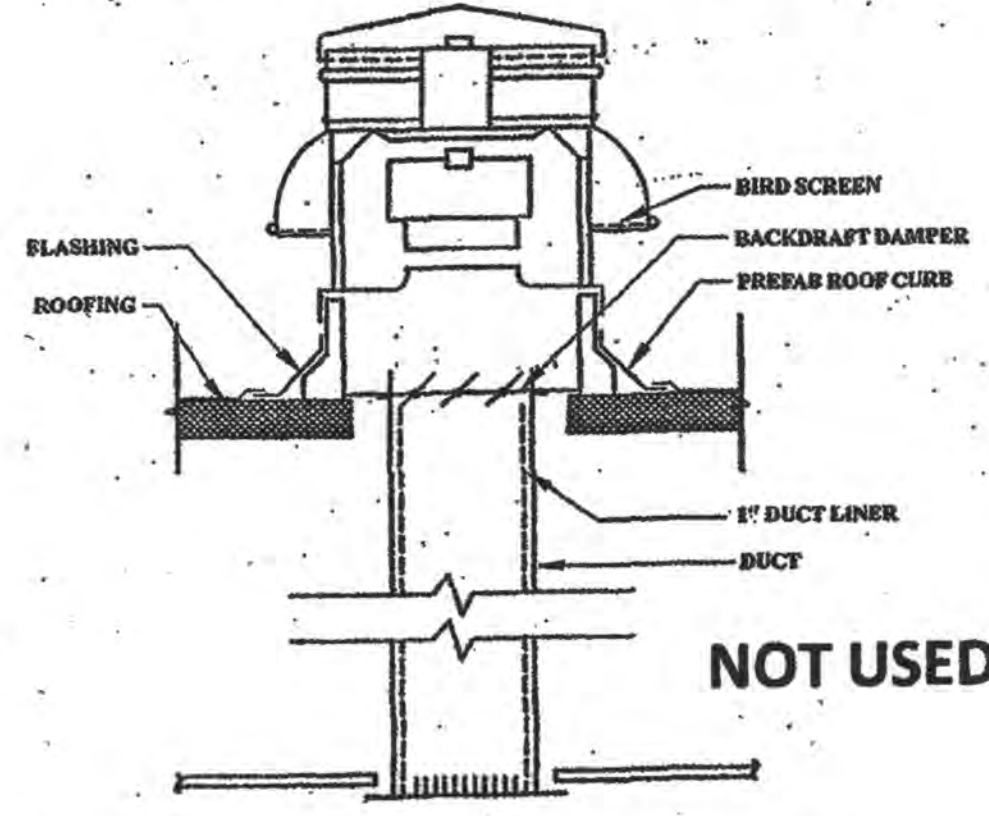
CEILING RETURN-AIR TRANSFER DETAIL



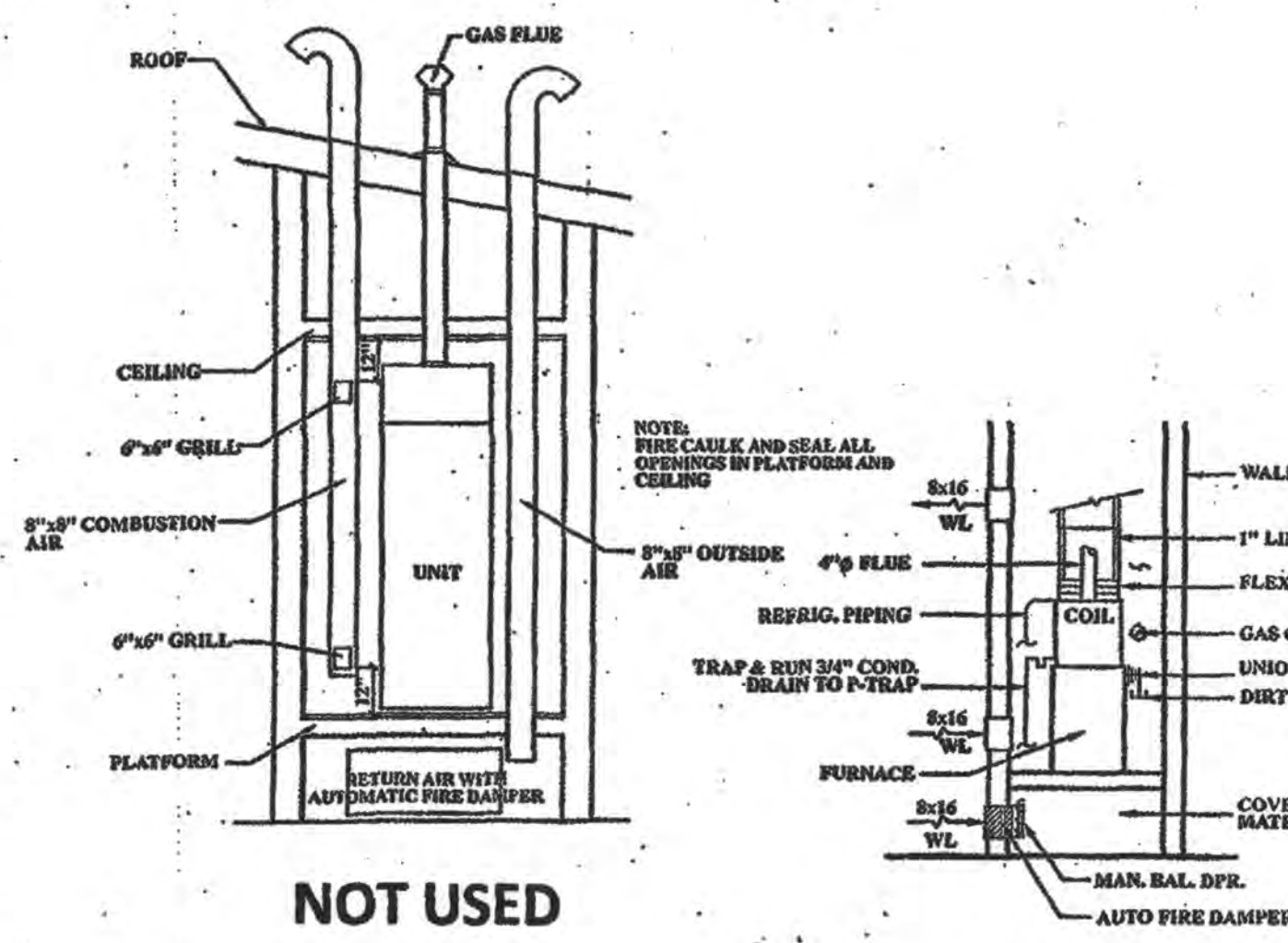
CEILING MOUNTED EXHAUST FAN



GOOSENECK DETAIL - SLOPED ROOF

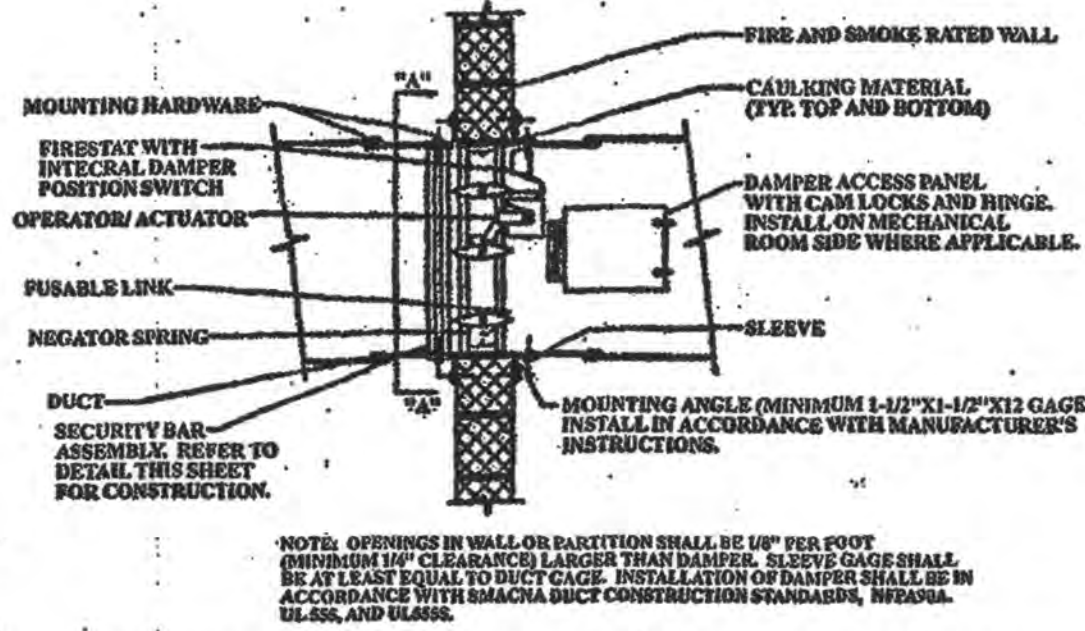


ROOF MOUNTED EXHAUST FAN DETAIL



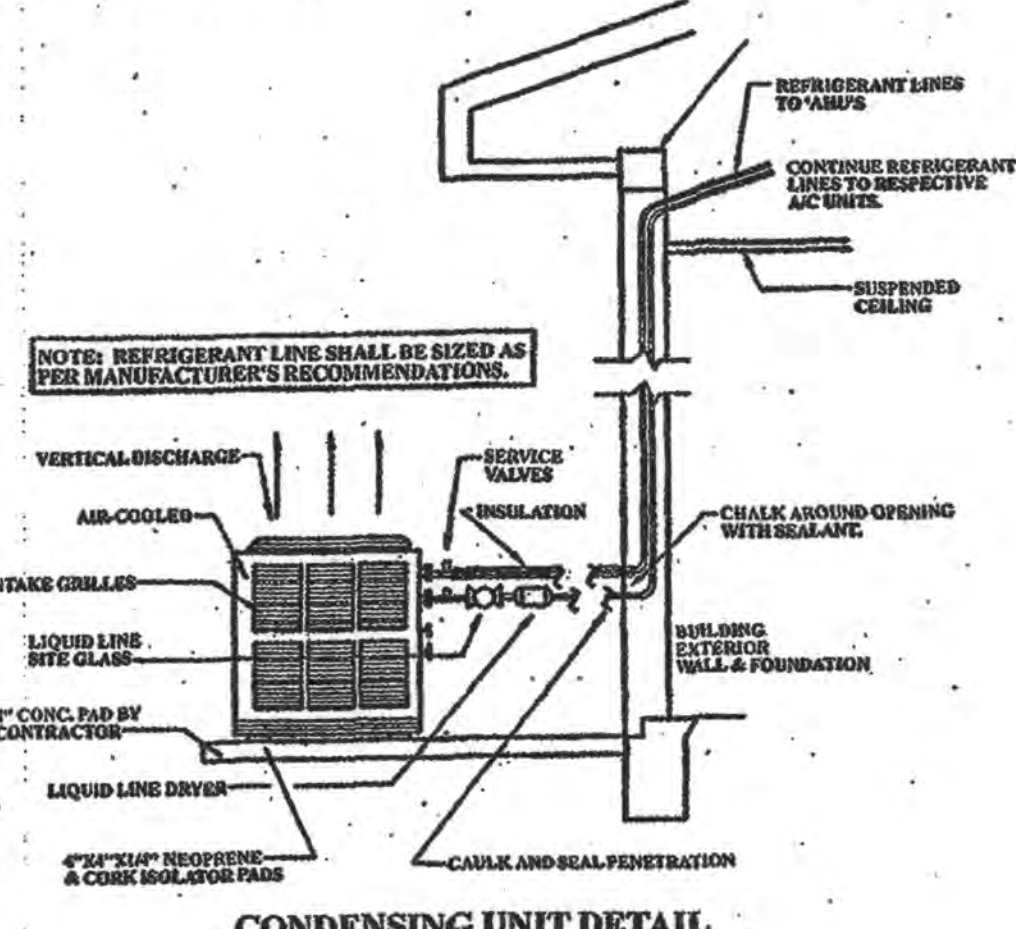
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TYPICAL GAS FIRE CLOSET UNIT DETAIL

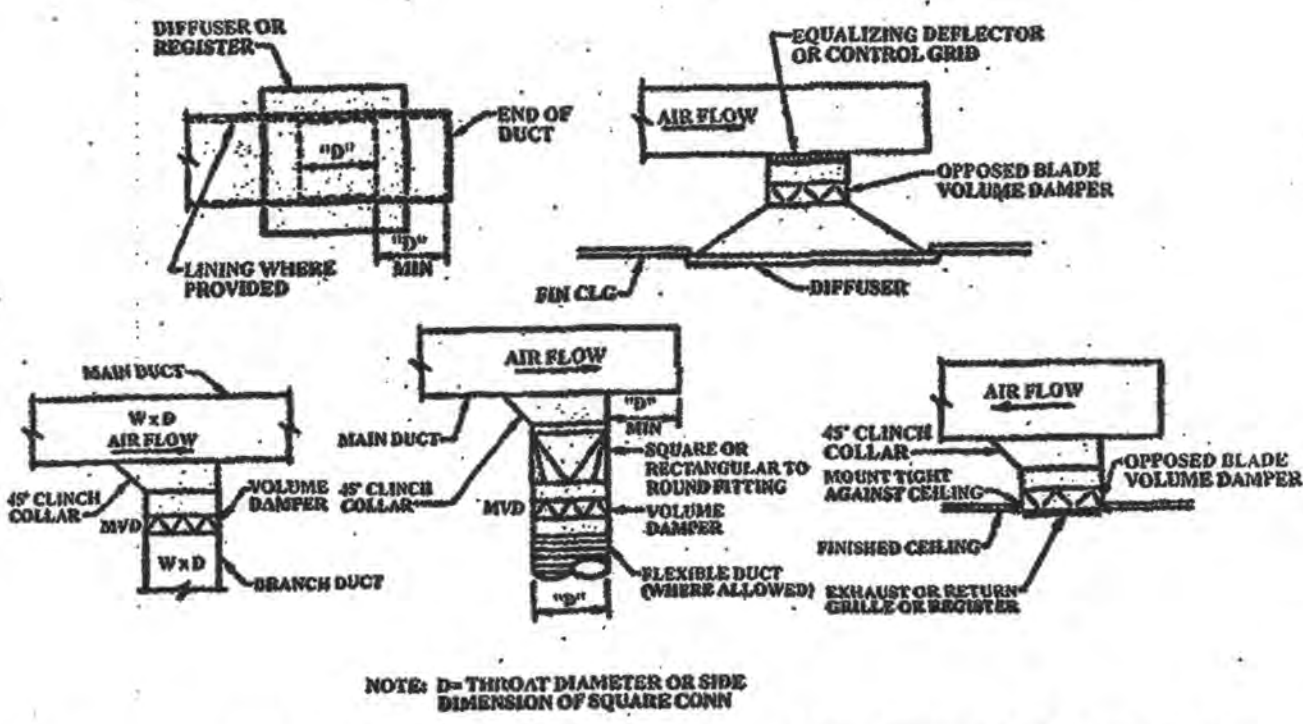


COMBINATION FIRE/SMOKE DAMPER DETAIL

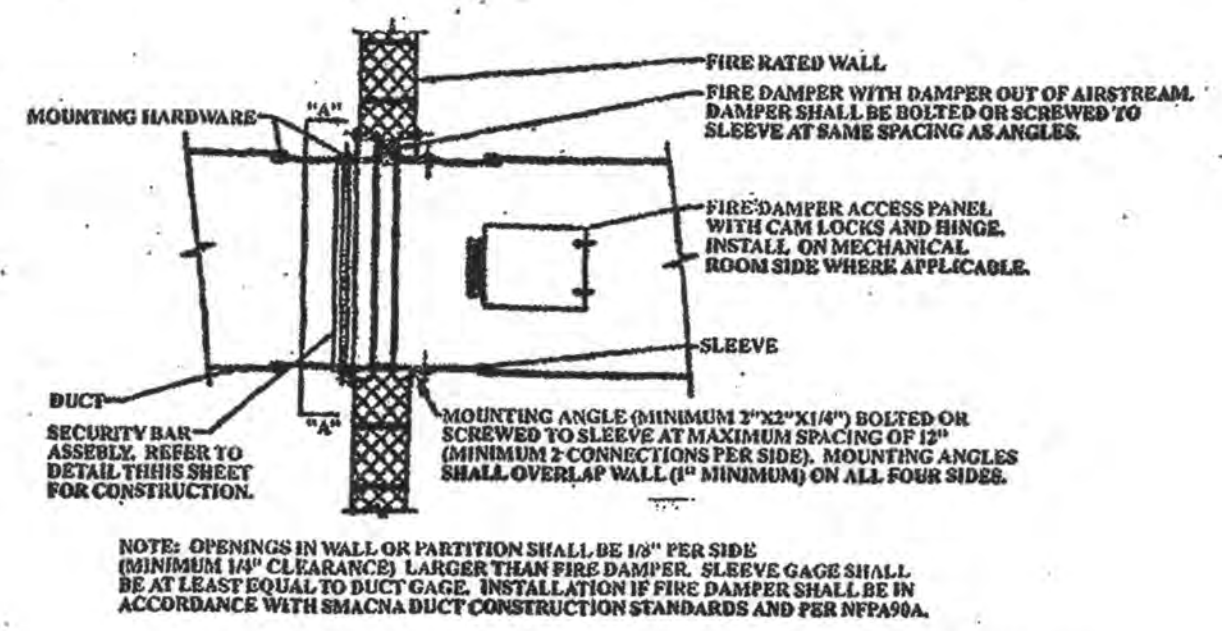
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CONDENSING UNIT DETAIL

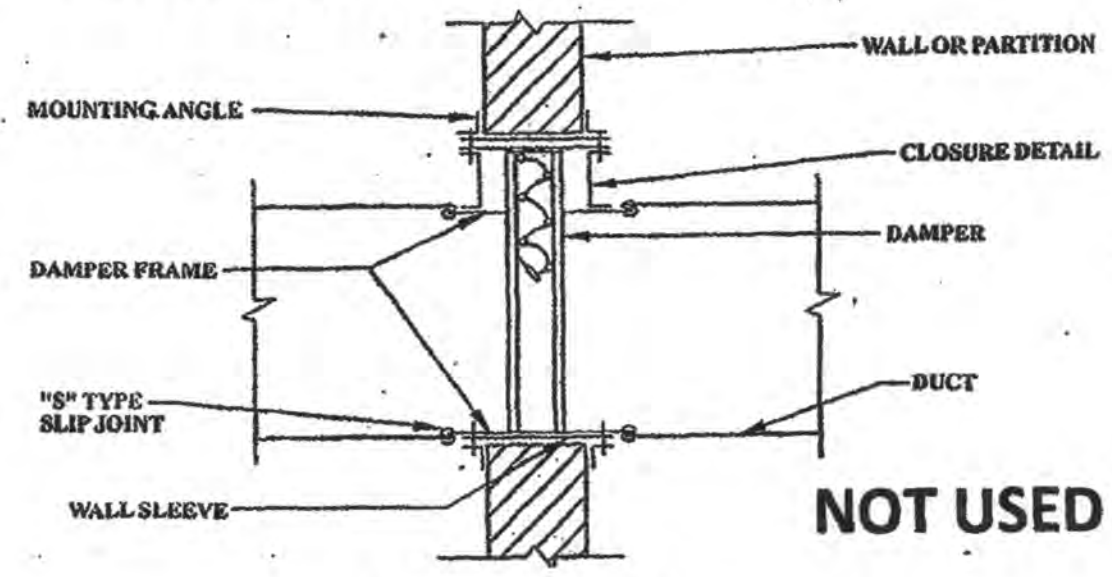


TYPICAL HARD DUCT TO AIR DEVICE CONNECTION DETAILS



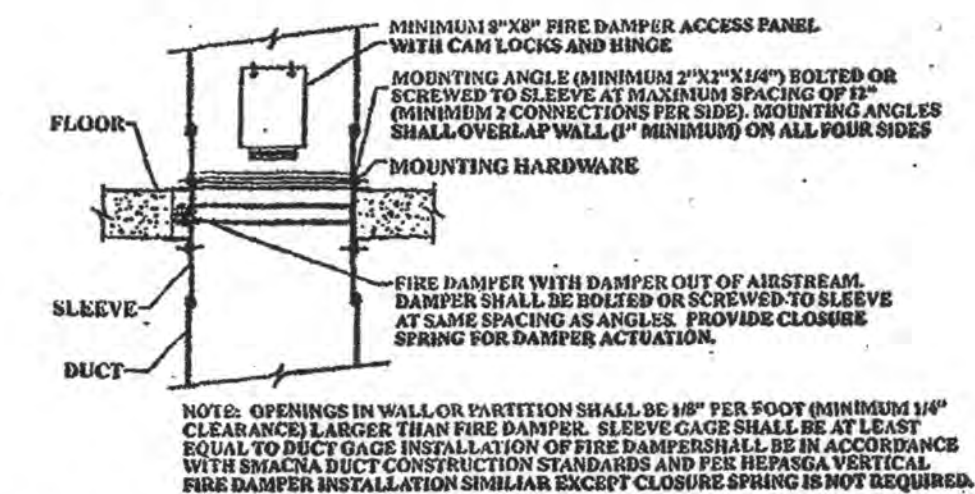
TYPICAL VERTICAL FIRE DAMPER DETAIL

NOT USED

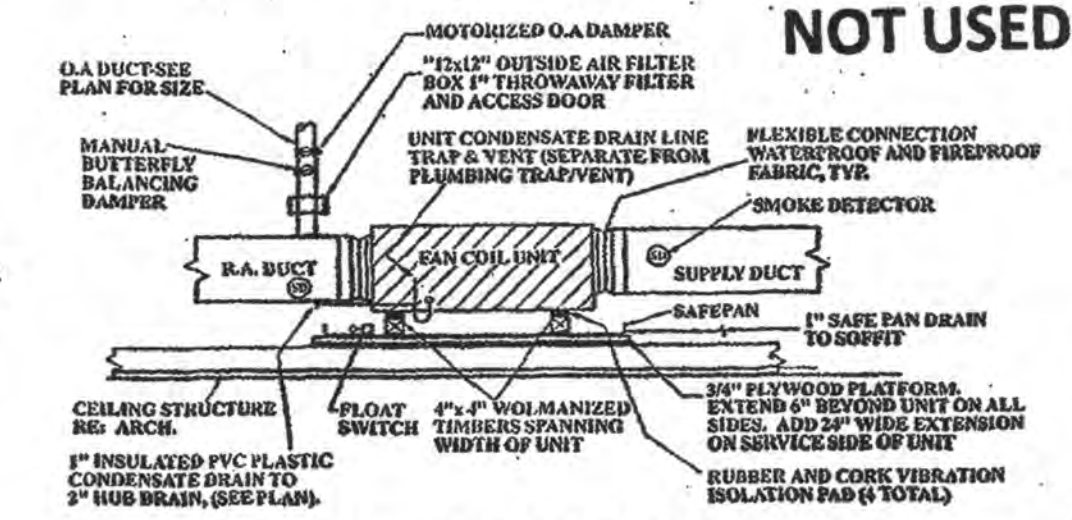


NOT USED

TYPICAL VERTICAL FIRE DAMPER DETAIL



TYPICAL VERTICAL FIRE DAMPER DETAIL



NOT USED

HORIZONTAL FAN COIL UNIT DETAIL

REVISIONS	BY



TYPICAL MECHANICAL DETAILS

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DRAWN	SEAN P. HALL
CHECKED	SCHNEIDER
DATE	11/18/06
SCALE	AS NOTED
SHEET	ME-3

ME-3