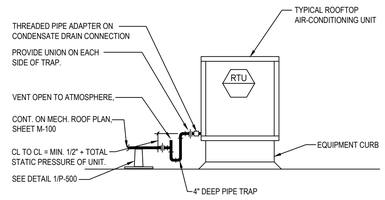
NOT USED 19

Scale: NO SCALE P-500

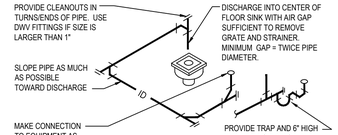
NOTE: IF ROOF DRAIN DOES NOT DRAIN TO PARKING/DRIVE SURFACE, THEN CONDENSATE TO DRAIN TO ROOF DRAIN. IF ROOF DRAINS TO PARKING/DRIVE SURFACE, THEN CONDENSATE TO DRAIN TO FLOOR SINK INSIDE STORE.
MIN. TRAP DEPTH 4"; CENTERLINE OUTLET TO CENTERLINE DRAIN 1/2" PLUS UNIT TOTAL STATIC PRESSURE AS A MINIMUM. DISTANCE FROM OUTLET TO TRAP NOT LESS THAN 2 PIPE DIAMETERS.



NOTE:
1. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. DO NOT PROVIDE TRAP ON UNITS WHICH HAVE AN INTERNAL TRAP.
2. DRAIN LINES TO BE TYPE L COPPER.
3. FOR BLOW-THROUGH TYPE EQUIPMENT, ADJUST PTRAP DEPTH TO 1/2" PLUS TOTAL STATIC PRESSURE OF UNIT.

A.C. UNIT CONDENSATE DRAIN 16

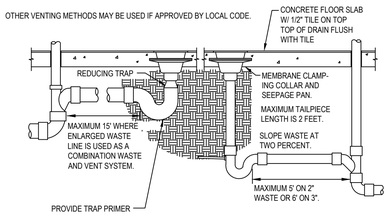
Scale: NO SCALE P-500



NOTE:
1. ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY.
2. HANG PIPE AS REQUIRED.
3. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

INDIRECT DRAIN 12

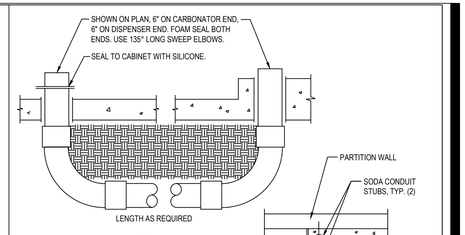
Scale: NO SCALE P-500



NOTE:
1. LOCATE FLOOR DRAIN/SINK WHERE SHOWN ON DIMENSIONED ARCHITECTURAL PLAN. IF FLOOR STRUCTURE INTERFERES WITH FLOOR SINK, MOVE SIDEWAYS IF POSSIBLE, OTHERWISE MOVE BACK. ALWAYS LOCATE WHERE EASILY ACCESSIBLE, BUT NOT IN FOOT TRAFFIC.
2. IF SITUATION IS FLOOR SLAB ON GRADE, PROVIDE BACKFILL PER SPECIFICATIONS. IF CONCRETE FLOOR IS NOT EXISTING, SET DRAIN IN PLACE AND POUR AROUND IT, OR BLOCK OUT AND POUR LATER.
3. IF CONCRETE FLOOR IS EXISTING, SAW CUT OR CORE DRILL IT. SET DRAIN BODY IN PLACE AND POUR AROUND IT.
4. TOP OF THE FLOOR SINK / DRAIN SHOULD BE SET AT THE SAME ELEVATION AS THE SLAB AND THEN DISHED OUT ½" AT THE DRAIN SLOPING TO NOTHING AT THE 2' RADIUS POINT.
5. IF SITUATION IS FLOOR NOT ON GRADE, REFER TO "FLOOR PENETRATION" DETAIL FOR VENTS.
6. PROVIDE TRAP PRIMER FOR FLOOR DRAINS IN RESTROOMS.

FLOOR DRAIN/SINK 8

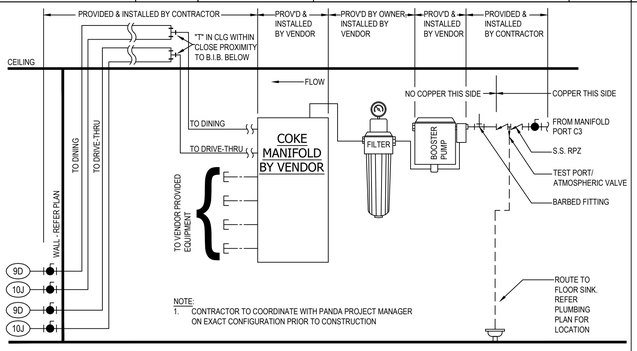
Scale: NO SCALE P-500



NOTE:
1. USE FOUR INCH PVC, FITTINGS AND COUPLINGS.
2. USE MINIMUM QUANTITY OF COUPLINGS REQUIRED, SEALED WATER-TIGHT.
3. USE LONG SWEEP ELBOWS AT BOTH ENDS, MINIMUM TWENTY FOUR INCH RADIUS.
4. AVOID ELBOWS IN HORIZONTAL RUN IF AT ALL POSSIBLE.
5. DO NOT USE 45° ELBOWS.

BELOW-GROUND SODA CONDUIT 4

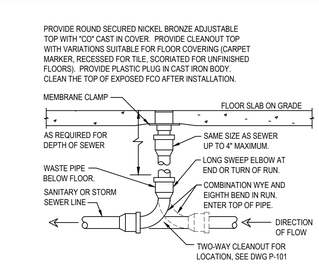
Scale: NO SCALE P-500



NOTE:
1. CONTRACTOR TO COORDINATE WITH PANDA PROJECT MANAGER ON EXACT CONFIGURATION PRIOR TO CONSTRUCTION

BAG-N-BOX DETAIL 15

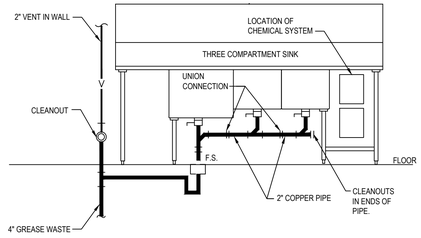
Scale: NO SCALE P-500



NOTE:
1. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS.
2. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS.
3. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND.
4. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

FLOOR CLEANOUT 11

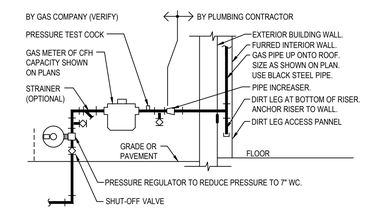
Scale: NO SCALE P-500



NOTE:
1. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS.
2. PROVIDE COPPER PIPE, FITINGS AND CONNECTORS ALL AROUND SINK AND TRAP.
3. CONNECT TRAP FROM CENTER COMPARTMENT.

UTILITY/SINK 7

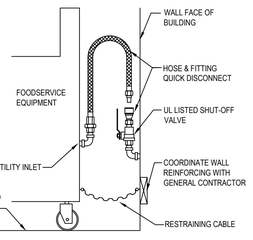
Scale: NO SCALE P-500



NOTE:
1. VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY.
2. INSTALL OTHER UTILITIES MINIMUM TEN FEET FROM GAS LINE.
3. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR INSTALLATION.
4. USE WELDED OR SCREWED PIPE AND FITTINGS PER PLUMBING SPECS.
5. GAS COMPANY SHALL EXCAVATE, BACKFILL, AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING.
6. PAINT EXPOSED METAL GAS PIPE, FITTINGS AND ITEMS SAFETY YELLOW.

GAS SERVICE 3

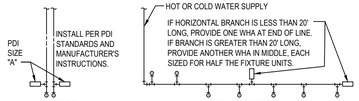
Scale: NO SCALE P-500



NOTE:
1. IF UTILITY IS NOT AT FULL HEIGHT SHOWN, PROVIDE PIPING WITH ELBOWS TO RAISE INLET

QUICK DISCONNECT 18

Scale: NO SCALE P-500



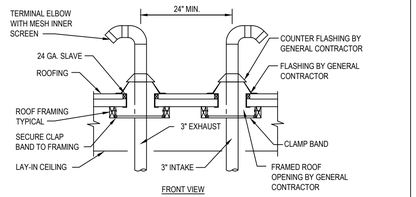
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

NOTE:
1. DO NOT PROVIDE AIR CHAMBERS.
2. PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION.
3. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN.
4. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE.
5. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

WATER HAMMER ARRESTERS 14

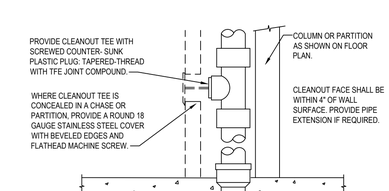
Scale: NO SCALE P-500



NOTE:
1. INSTALLATION SHALL BE PER MANUFACTURER'S INSTALLATION GUIDELINES AND INSTRUCTIONS.
2. THE INTAKE AND VENT TERMINALS MUST BE ORIENTED FACING DOWNWARD IN THE SAME DIRECTION, AND USING THE SAME PROCEDURE.
3. LAYOUT OF VENT SYSTEM TO USE A MINIMUM OF VENT PIPE AND ELBOWS. MAXIMUM EQUIVALENT LENGTH OF 3" VENT PIPE SHALL BE 65' TOTAL, AND EACH 90° ELBOW HAS THE EQUIVALENT LENGTH OF 5'.
4. INTAKE AND EXHAUST VENT TERMINALS SHALL BE 24" MINIMUM ABOVE ROOF OR SNOW ACCUMULATION LEVEL.
5. THE FLASHING AND COUNTER FLASHING DETAIL SHOWN HERE ARE GENERIC. THESE ONLY APPLY TO BUILT-UP ROOF. FOR PANDA PROJECT WITH SINGLE PLY ROOFING. REFER PLUMBING VENT DETAIL ON A-107.

WH DIRECT VENT DETAIL 10

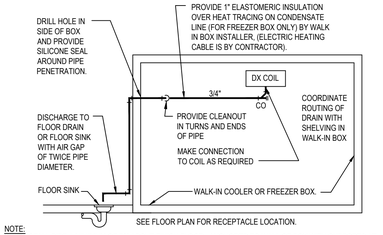
Scale: NO SCALE P-500



NOTE:
1. PROVIDE WCO WHERE SHOWN ON PLAN. LOCATE ABOVE FIXTURE FLOOD RIM .
2. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

WALL CLEANOUT 6

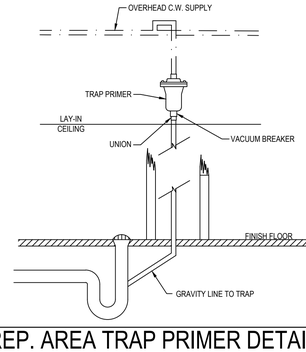
Scale: NO SCALE P-500



NOTE:
1. INSTALL PIPE A MINIMUM OF 76" ABOVE FINISH FLOOR , ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS.
2. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS.
3. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT.
4. KEEP DRAIN LINE FROM EVAPORATOR AS HIGH AS POSSIBLE UNDER THE EVAPORATOR BACK TO THE WALL TO MAXIMIZE SHELF SPACE UNDER THE COIL.
5. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.
6. INDIVIDUAL CONDENSATE LINES FROM EACH EVAPORATOR TO BE ½" UNTIL JOINED. CONDENSATE LINE TO BE 1" AFTER UNION.

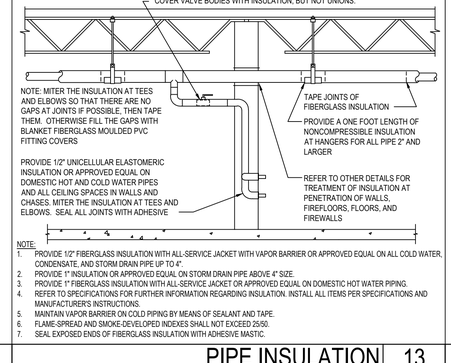
WALK - IN BOX CONDENSATE DRAIN 2

Scale: NO SCALE P-500



PREP. AREA TRAP PRIMER DETAIL 17

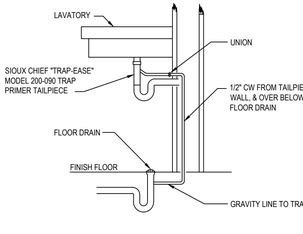
Scale: NO SCALE P-500



NOTE:
1. PROVIDE 1/2" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER OR APPROVED EQUAL ON ALL COLD WATER, CONDENSATE, AND STORM DRAIN PIPE UP TO 4".
2. PROVIDE 1" INSULATION OR APPROVED EQUAL ON STORM DRAIN PIPE ABOVE 4" SIZE.
3. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET OR APPROVED EQUAL ON DOMESTIC HOT WATER PIPING.
4. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS.
5. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE.
6. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50.
7. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

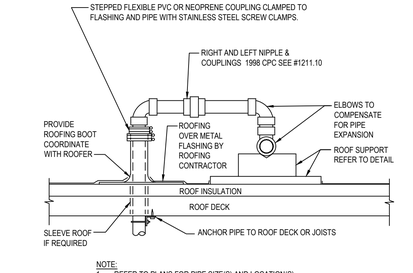
PIPE INSULATION 13

Scale: NO SCALE P-500



RESTROOM TRAP PRIMER DETAIL 9

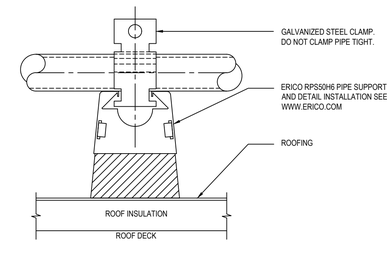
Scale: NO SCALE P-500



NOTE:
1. REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S).
2. WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE.
3. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS.

GAS PIPE ROOF PENETRATION 5

Scale: NO SCALE P-500



NOTE:
1. LOCATE AT TURNS OF PIPE, AT 4' SPACING FOR PLASTIC PIPE, AND AT THIS SPACING FOR METAL PIPE: 5"=16' 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1-1/4"=8' 1"=7' 3/4"=6'. PLACE BASE SHEETS ON ROOFING BEFORE GRAVEL IF ANY. SET BLOCKS FREE ON BASE SHEETS. STACK BLOCKS AND NAIL THEM TOGETHER WHERE REQUIRED TO ELEVATE PIPING.
2. PRIMER COAT AND PAINT EXTERIOR GAS PIPE SAFETY YELLOW COLOR.
3. 18"x18"x1/2" THICK ROOF WALKWAY MATERIAL FOR BASE SHEET. ("CAREY-TRED" OR PER ARCHITECTURAL SPECIFICATIONS.)

ROOF PIPE SUPPORT 1

Scale: NO SCALE P-500

PANDA EXPRESS CHINESE KITCHEN

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2	04.23.2020 ISSUE FOR BID

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PLUMBING DETAILS