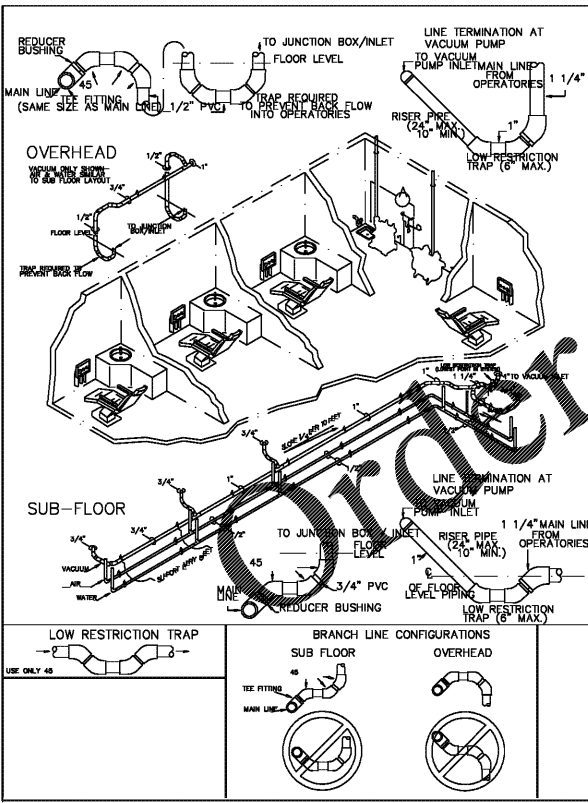


1 PLUMBING PLAN - AIR AND VAC
1/4" = 1'-0"



VACUUM NOTES:

THE VACUUM PIPING LAYOUT HAS A LARGE EFFECT ON THE EFFICIENCY AND RELIABILITY OF THE DENTAL VACUUM SYSTEM. REFER TO MANUFACTURERS PRE-INSTALLATION GUIDE PROVIDED BY DENTAL EQUIPMENT SALES SPECIALIST (ESS) FOR SPECIFIC SIZING OF STUB-UP, TRUNK AND BRANCH LINES.

IT IS HIGHLY RECOMMENDED THAT VACUUM LINES RUN UNDERNEATH DENTAL EQUIPMENT BY MEANS OF UNDERNEATH SLAB, ABOVE CLOSET FIRST FLOOR. ALL LINES ARE TO BE DESIGNED WITH PVC PIPING UNLESS DICTATED BY LOCAL CODES TO USE COPPER OR CAST IRON.

TO ENSURE OPTIMUM VACUUM PERFORMANCE, INSTALL MAIN LINE DIRECTLY BELOW THE DENTAL CHAIR, CABINET, OR WORKSTATION. TO REDUCE OR ELIMINATE BRANCH LINE RUNS WHERE POSSIBLE.

1. STUB-UP
TERMINATE VACUUM TRUNK LINE IN MECHANICAL ROOM. W/VERTICAL STUB-UP 3" A.F.F. FROM OPERATOR. PROVIDE FPT ADAPTER ON END OF STUB-UP. SIZE OF ADAPTER TO BE DETERMINED BY TRUNK AND PUMP INTAKE PIPE SIZES. IN THE CASE OF DUAL TRUNK LINE SYSTEM, PROVIDE SHUTOFF VALVE BETWEEN STUB-UPS TO INSTALL TEES ON BOTH ENDS.

2. TRUNK LINE(S)
VACUUM TRUNK LINE(S) TO BE SUPPORTED EVERY 6'-0" TO PREVENT SAG AND MAINTAIN A MINIMUM OF 1/4" PER 10'-0" TOWARD THE VACUUM PUMP.

3. BRANCH LINE(S)
BRANCH LINES ARE TO BE "SWEEPING" 90 DEGREE TURNS TO AVOID VACUUM LOSS. A "Y" TEE FITTING SHOULD BE USED WHEN AVAILABLE TO JOIN LINES TOGETHER.

WATER SUPPLY LINE

PLUMB VACUUM WATER INLET FROM WATER FILTER BYPASS UNIT, WHEN USED. USE 1/2" COPPER WATER SUPPLY LINE TERMINATED WITH 1/2" FPT. CONNECT TO VACUUM UNIT WITH THE 8 FOOT PIECE OF HIGH PRESSURE WATER HOSE AND CONTROL VALVES PROVIDED.

IMPORTANT: WATER IS ESSENTIAL FOR THE OPERATION OF THE PUMP. THE WATER SUPPLY CANNOT BE INTERRUPTED DURING OPERATION.

NOTE: PROVIDE REDUCED PRESSURE (RP) BACKFLOW PREVENTER MAY BE REQUIRED BY LOCAL CODE.

AIR EXHAUST TO OUTSIDE

VENT WITH 2" PVC TO OUTSIDE OF BUILDING. TO BE PUT AT LEAST 15FT AWAY FROM ANY AIR INTAKE.

EXHAUST TO SEWER

USE APPOLO P/N SV495775 1" P-TRAP (WITH 1" AIR GAP) OR FLOOR SINK. USE OPEN DRAIN ONLY IF REQUIRED BY LOCAL CODE.

BRANCH LINE FROM MAIN LINE

ALWAYS BRANCH PIPE OFF THE MAIN LINE ABOVE THE CENTERLINE OF THE MAIN LINE. THIS PREVENTS BACKFLOW FROM THE MAIN LINE INTO THE OPERATORIES.

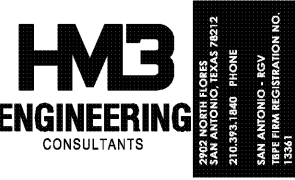
BRANCH TEES ARE THE SAME SIZE AS MAIN LINE AND ARE REDUCED TO 3/4" FOR SUB-FLOOR SYSTEMS, AND 1/2" FOR OVERHEAD SYSTEMS.

PLUMBING KEYED NOTES:

- CONTRACTOR TO ROUTE 2" VACUUM EXHAUST THRU ROOF AND TERMINATE WITH FLUE CAP W/ BUG SCREEN. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER AND ARCHITECT. REFER TO DETAIL 8/P001.
- 1/2" VACUUM, 1/2" AIR, AND 1/2" NITROUS OXIDE (SEE PLAN) TO 12-O-CLOCK CABINETS. STUB UP 4" APART AND 4" FROM FINISHED WALL. PROVIDE SHUTOFF VALVE AT TERMINATION OF AIR AND VAC LINES FOR FUTURE SYSTEM MAINTENANCE. REFER TO DETAIL 10/P001.
- APPROXIMATE LOCATION FOR NEW AIR COMPRESSOR.
- APPROXIMATE LOCATION FOR NEW VACUUM. ROUTE DRAIN TO FLOOR DRAIN.
- CONTRACTOR TO ROUTE NEW 2" PVC SCH. 40 THRU ROOF AND TERMINATE WITH FLUE CAP W/ BUG SCREEN FOR AIR COMPRESSOR AIR INTAKE. COORDINATE EXACT LOCATION WITH COMPRESSOR SUPPLIER AND ARCHITECT. REFER TO DETAIL 9/P001. LOCATE INTAKE AT LEAST 10' FROM MECHANICAL EQUIPMENT AND EXHAUST.
- 1/2" AIR LINE TO LAB EQUIPMENT.
- COORDINATE WITH G.C. FOR FINAL LOCATION OF AMALGAM SEPARATOR PRIOR TO INSTALLATION.

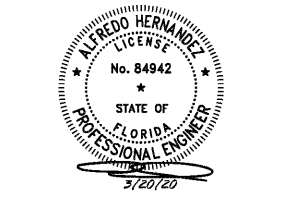


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