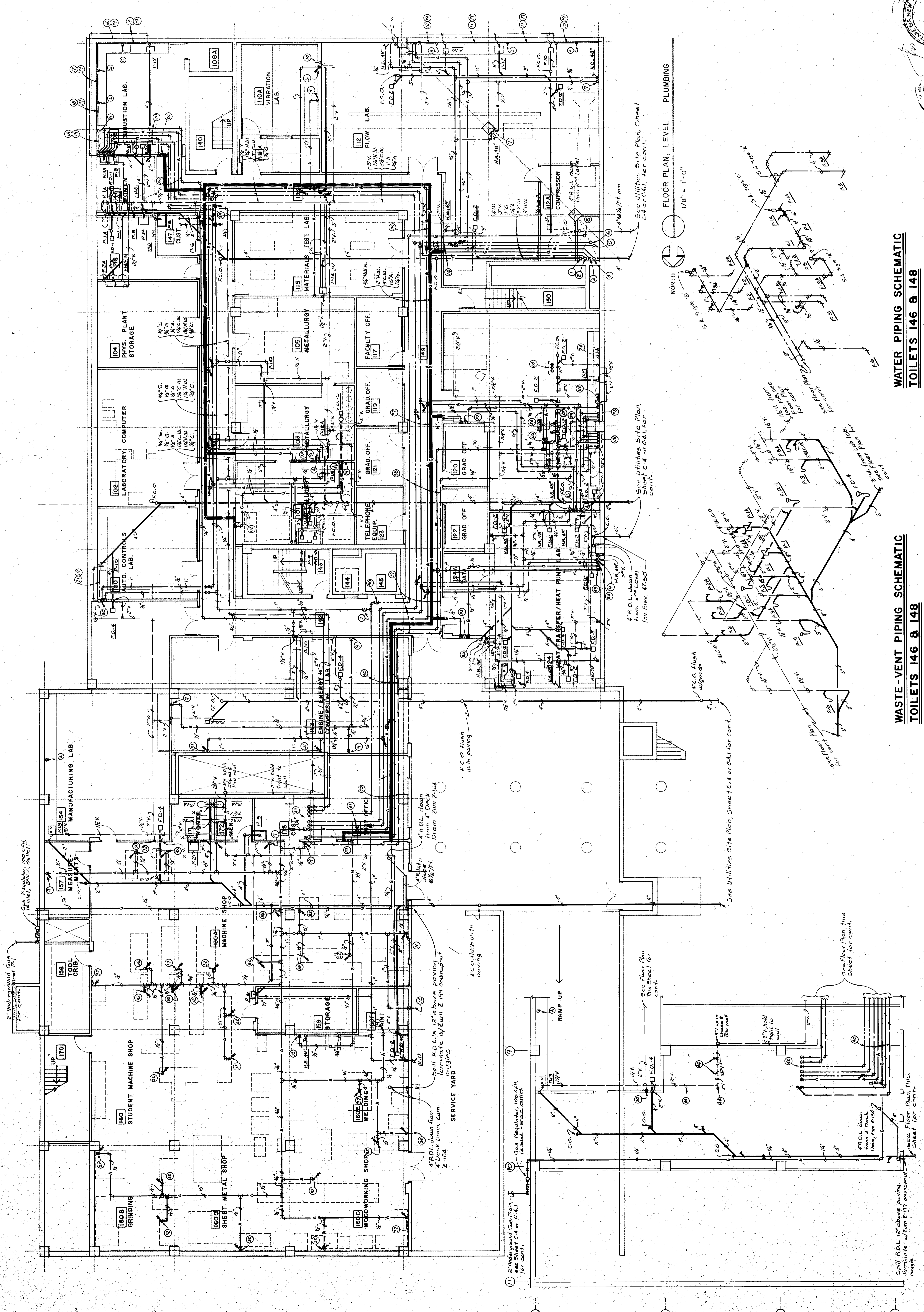


- KEYED NOTES:**
- 1 4" waste down from 2nd Level.
 - 2 4" vent stack up to 2nd Level.
 - 3 1" gas up to 2nd Level.
 - 4 1-1/4" air up to 2nd Level.
 - 5 3" cold water up to 2nd Level.
 - 6 2" hot water up to 2nd Level.
 - 7 Balancing Valve, set @ 1 gpm flow.
 - 8 3/4" hot water return down from 2nd Level.
 - 9 Air outlet, 48" above floor, terminate with 1/2" globe valve and cap.
 - 10 1/2" air piping on wall in bench pipe space.
 - 11 1/2" cold water, 1/2" hot water, 1/2" air and 2" vent.
 - 12 3/4" cold water, 3/4" hot water, 3/4" air and 2" vent.
 - 13 1-1/4" hot water, 2-1/2" cold water, 3" vent, 1" air, and 3/4" gas.
 - 14 3" waste, 3" vent, 1" gas, 1-1/4" air, 3/4" cold water, and 3/4" hot water return.
 - 15 1/2" cold water, 1/2" hot water, and 1-1/2" vent.
 - 16 1/2" cold water, 1/2" hot water, 1/2" gas, and 1-1/2" vent.
 - 17 1/2" cold water, 1/2" hot water, 1/2" gas, 3/4" steam, 3/4" condensate and 1-1/2" vent.
 - 18 1/2" cold water, 1/2" hot water, 1/2" gas, 3/4" steam, 3/4" condensate, 1/2" air and 1-1/2" vent.
 - 19 Rack piping on wall in pipe space behind Base Laboratory Bench.
 - 20 3/4" condensate, 1-1/4" cold water, 1/2" gas, 1/2" hot water, 1/2" air, and 3/4" steam.
 - 21 1/2" cold water, 1/2" hot water and 1-1/2" vent.
 - 22 Laboratory Gas Control Valve, see Detail.
 - 23 3/4" S., 3/4" gas, 3/4" air, 2" cold water, hot water.
 - 24 Bench Lab. outlets at 12" centers; gas, air and steam.
 - 25 Connect 1/2" gas, 1/2" air, 1/2" cold water, 1/2" hot water and 1-1/2" waste to fume hood with service stop. Services shall be piped down on wall and anchored with pipe straps and Unistrut # channels.
 - 26 3/4" steam, 3/4" condensate, 1/2" air, 1/2" gas, 2" vent, 1/2" cold water and 1/2" hot water down to and up from Test Bench piping space.
 - 27 2" vents up into Bench piping space with 2" header, 3/4" steam, 1/2" cold water.
 - 28 1/2" air, 1/2" gas and 2" vent. Services for Lab. Bench piping space. In furrowed space at Column from Grout pipe space.
 - 29 End of main drip station. See Detail.
 - 30 Rough-in 3" waste with 3" P-trap, 17" above floor.
 - 31 Terminate in 1" cold water, 48" above floor and terminate with 1" globe valve and cap.
 - 32 Terminate 1/2" air 78" above floor with 1/2" globe valve and pipe cap.
 - 33 Terminate 1/2" gas 48" above floor with gas cock and cap.
 - 34 1/2" quick couple air connector mounted 24" above grade.
 - 35 1" air outlet with pipe cap, 24" above grade.
 - 36 4" waste down from 2nd Level toilets.
 - 37 3/4" hot water return, 2" hot water, 3" cold water, 1-1/4" air and 1-1/4" gas.
 - 38 3/4" hot water return, 2" hot water, 3" cold water, 1-1/4" air, 1-1/4" gas, 3/4" steam and 3/4" condensate.
 - 39 3/4" hot water return, 2" hot water, 3" cold water, 1-1/4" air, 1-1/4" gas, 1" steam and 3/4" condensate.
 - 40 1" hot water return, 3" cold water, 1-1/4" air, 1-1/4" gas and 1" steam and 3/4" condensate.
 - 41 1" hot water return, 3" cold water, 1-1/4" air, 1-1/4" gas, 1" steam and 3/4" condensate.
 - 42 Piping to and from Basement Level.
 - 43 Terminate 3/4" steam with gate valve mounted 48" above floor.
 - 44 Cap 2" vent for future.
 - 45 Plug 4" waste for future.
 - 46 Plug 3" waste for future.
 - 47 Plug 2" waste for future.
 - 48 Cap 1" C. W. for future.
 - 49 Cap 1/2" gas for future.
 - 50 Balancing Valve, set @ 5 gpm.



ALTERNATE BID PLAN
 SEE PARTIAL FLOOR PLAN
 BELOW FOR BASE BID PIPING

BASE BID PLAN
 SEE PARTIAL FLOOR PLAN
 ABOVE FOR ALTERNATE BID PIPING

WATER PIPING SCHEMATIC
 TOILETS 146 & 148
 SCALE: NONE

WASTE-VENT PIPING SCHEMATIC
 TOILETS 146 & 148
 SCALE: NONE

PARTIAL FLOOR PLAN, LEVEL I, PLUMBING
 1/8" = 1'-0"