This facility is designed to test propellant systems at altitude conditions. Tests have been run here on the NERVA (Nuclear Engine for Rocket Vehicle Application) turbopump. The investigations include turbopump tests, fluid instabilities in the engine flow passages, and equipment performance evaluations. The pipe structure to the right of the facility is a steam ejector which is used to obtain the necessary altitude test condition. This ejector will also be used by two other test facilities in this area.
This facility is designed to test propellant systems at altitude conditions. Tests have been run here on the NERVA (Nuclear Engine for Rocket Vehicle Application) propellant feed system. The investigations include turbopump tests, fluid instabilities in the engine flow passages, and equipment performance evaluations. The pipe structure adjacent to the facility is a steam ejector which is used to obtain the necessary altitude test condition. A nearby steam plant furnishes the required steam for this ejector and also services the ejectors of three other research facilities.
B-1 test stand ground floor plan.
Elevation 352' 0"
Figure 2. - Schematic of simulated nuclear rocket experimental test setup in B-1 facility.