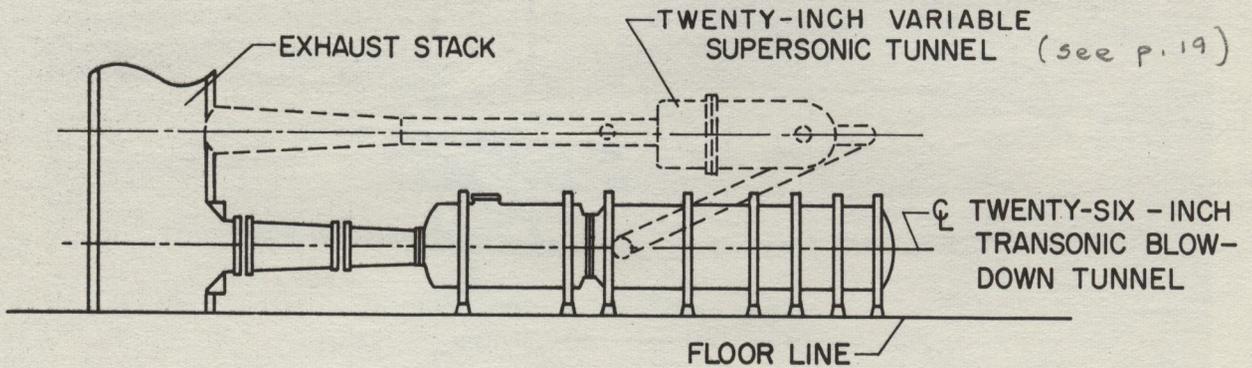


LANGLEY 26-INCH TRANSONIC BLOWDOWN TUNNEL



The Langley 26-inch transonic blowdown tunnel is located in Building 583 and is under the direction of the Full-Scale Research Division. The tunnel is primarily used for flutter tests of model configurations of aircraft components. The test medium is air. Model mounting consists of sting with circular-arc strut. Long fixed sting support is available for flutter investigations. Intermittent blowdown tunnel exhausts into atmosphere with independent control of Mach and Reynolds numbers. Octagonal slotted test section is 26 inches between flats. Examples of operating conditions are as follows:

Mach number	0.6 to 1.45
Stagnation pressure, psia	20 to 75
Stagnation temperature, °R	510 to 550
Reynolds number per foot	2.0×10^6 to 27.0×10^6
Running time (depending on Mach number and stagnation pressure), sec	20 to 50