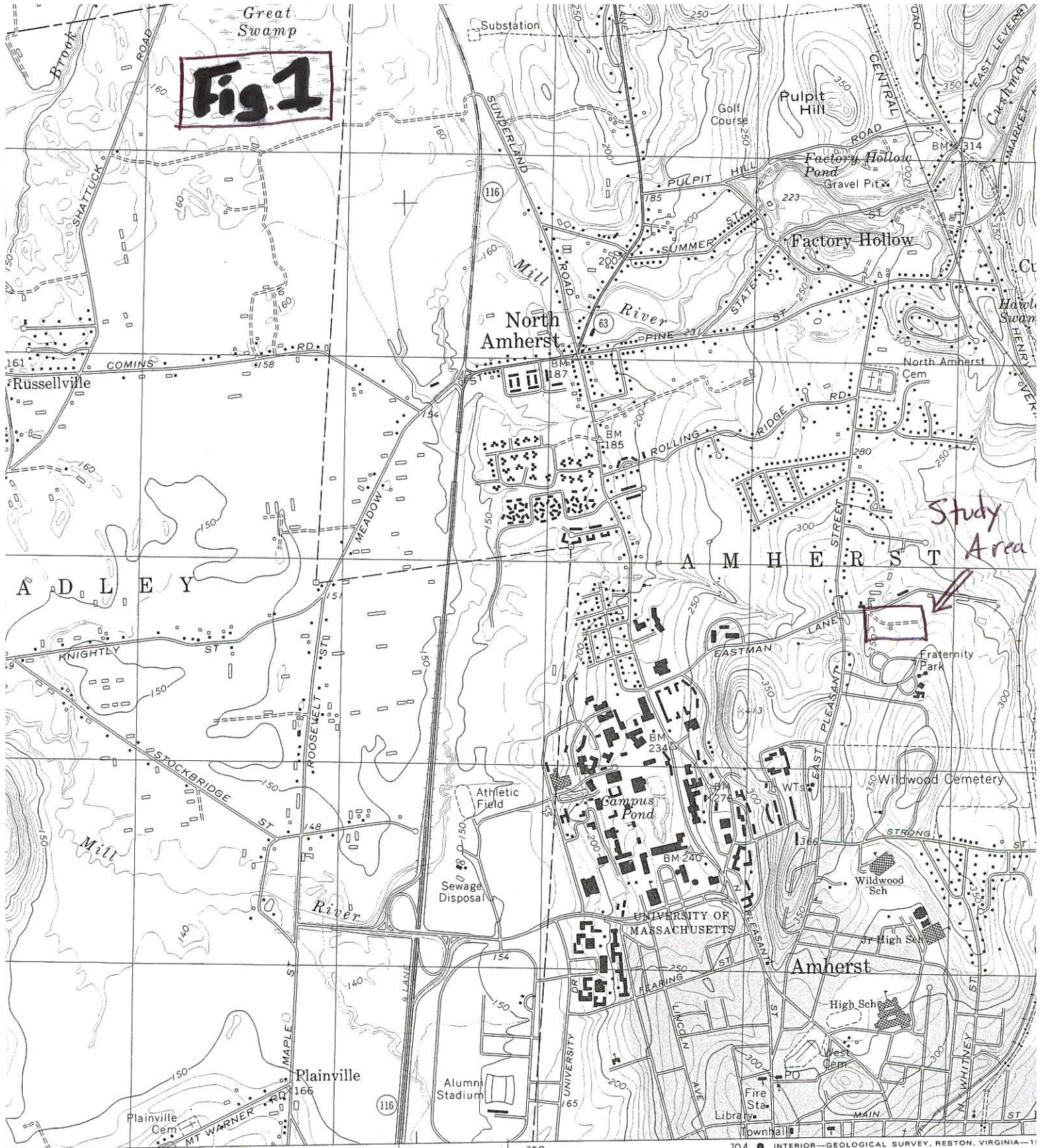
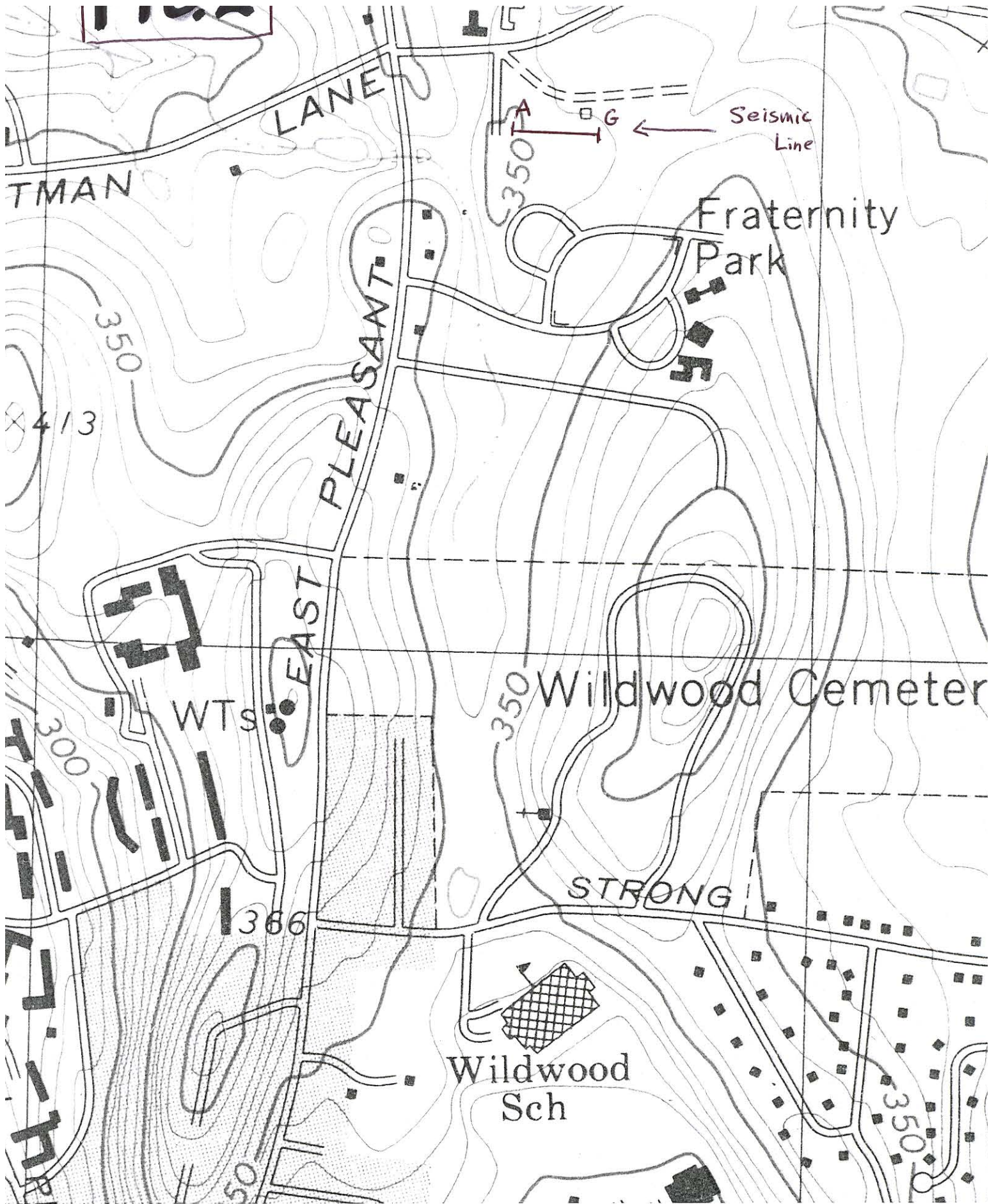


Contour Interval
10'

704 • INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—11
705000m E

ROAD CLASSIFICATION	
Primary highway, hard surface	Light-duty road, hard surface
Secondary highway, hard surface	Unimproved road



SEISMIC VELOCITIES OF SHALLOW EARTH MATERIALS

<u>MATERIAL</u>	<u>METERS/SEC</u>	<u>FEET/SEC</u>
Weathered layer	300 - 900	1000 - 2950
Soil	250 - 600	900 - 2000
Alluvium	500 - 2000	1650 - 6550
Clay	1100 - 2500	3600 - 8200
Sand - unsaturated	200 - 1000	650 - 3300
Sand - saturated	800 - 2200	2600 - 7200
Sand & Gravel - unsaturated	400 - 500	1300 - 1650
Sand & Gravel - saturated	500 - 1500	1650 - 4900
Glacial Till - unsaturated	400 - 1000	1300 - 3300
Glacial Till - saturated	1700	5575
Glacial Till - compacted	1200 - 2100	3950 - 7000
Sandstone, Shale	2000 - 4500	6550 - 14,750
Limestone	2000 - 6000	6550 - 19,700
Granite	5000 - 6000	16,440 - 19,700
Basalt	5400 - 6400	17,700 - 21,000
Metamorphic rocks	3500 - 7000	11,500 - 23,000