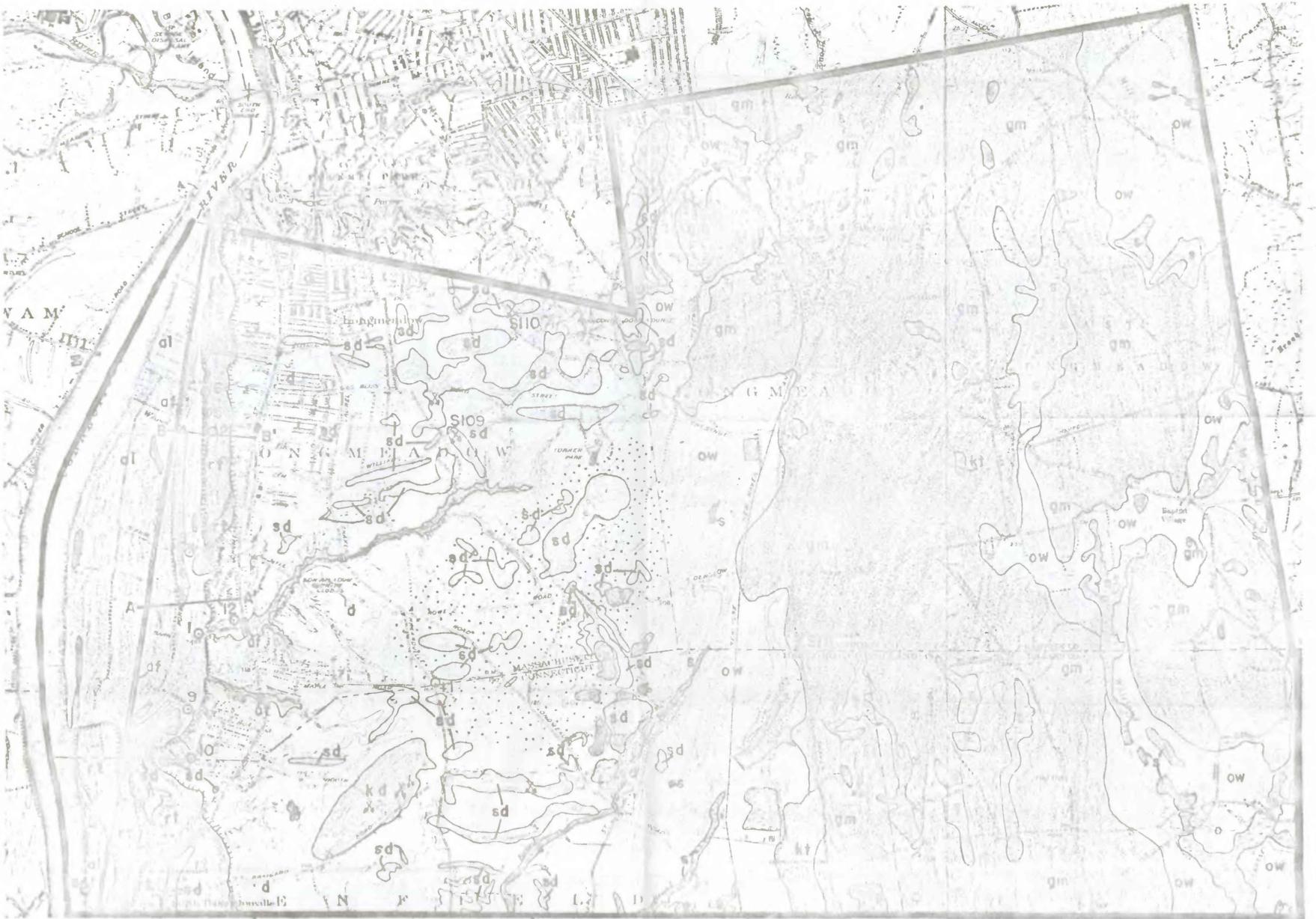
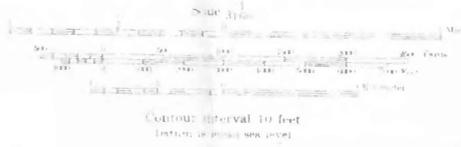


PLATE I
SURFICIAL GEOLOGIC MAP
OF
LONGMEADOW AND EAST LONGMEADOW, MASS.
AND
ADJACENT PARTS OF CONNECTICUT
SHOWING DISTRIBUTION OF SOIL MATERIALS AND SAND AND GRAVEL PITS
GEOLOGY BY JOSEPH H. HARTSHORN



SCALE



EXPLANATION

<p>Generally unsuitable as sources of granular material</p>	<p style="text-align: center;"><u>PEAT, MUCK, AND ALLUVIAL AREAS</u></p> <p>s - peat and silty to sandy peat and muck in swamps; underlain by clay, silt, sand, gravel, or till generally similar to surrounding area.</p> <p>al - silty and sandy alluvium, chiefly recent flood deposits, restricted mostly to lowlands along the Connecticut River.</p> <p>rt - mostly sand, some silt, in river terraces about 65' and 80' above the Connecticut River.</p>	<p>Areas of granular material of variable texture</p> <p>203 (214) 8M3952</p>	<p style="text-align: center;"><u>TILL AREAS</u></p> <p>gm - till (ground moraine); a heterogeneous deposit of mixed boulder to clay sizes, known locally as "hardpan", red to reddish brown in color, generally covered by yellowish to buff colored wind-blown sand.</p>
<p>Chief areas of fine-grained granular material</p>	<p style="text-align: center;"><u>AREAS IN WHICH SAND PREDOMINATES</u></p> <p>sd - sand of uniform texture, deposited by wind action as elongate sand dunes, but in part as irregular forms (dotted overprint).</p> <p>d - sand of variable texture, deposited as a delta in glacial Lake Hitchcock, now dissected by modern streams. Underlain by varved clays at depths of 15' to 50'+.</p> <p>ow1 - sand of variable texture, including subordinate pebbles gravel, deposited as outwash plains by glacial meltwaters.</p>		<p>af - Artificial fill</p> <p>○ - Approximate unit boundary</p> <p>▲ - Edge of terrace (hachures point upslope)</p> <p>✕ - Sand and gravel pits active and inactive</p> <p>○3 - Location of drill hole</p> <p>S109 - Location of sample</p> <p>A ——— A' - Line of cross-section</p>
<p>Chief areas of coarse granular material</p>	<p style="text-align: center;"><u>AREAS IN WHICH GRAVEL PREDOMINATES</u></p> <p>ow2 - gravel and sand, deposited as outwash plains by glacial meltwaters; generally kettled.</p> <p>kt - gravel and sand deposited as kame terraces (at Osborn Prison Farm, and west of Lee Street, East Longmeadow).</p> <p>kd - gravel and sand in topset and foreset beds of a kame delta (east of North Thompsonville, Connecticut).</p> <p>e - gravel and sand, extremely variable texture, including large boulders, in short esker segment (west of Kibbe Road, East Longmeadow).</p>		

This report has been prepared for open file and has not been edited for conformity with U.S. Geological Survey standards and procedures.

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