

PHASE 1 - FEASIBILITY ANALYSIS

Dedham Street

(Park Ave. to Mountain Ave.)

The condition of Dedham Street is typical for the immediate grouping of side streets between Park Ave. and Mountain Ave. Dedham Street is in need of reconstruction and is in similar condition to Genesee and Essex Streets overall but ranks higher on a need basis due to the condition of curb and sidewalks on the street.

Extensive alligator cracking and differential settlement is observed on the street, note photos 2, 3 and 5, all showing alligator cracking and settlement within different areas. Photo 4 shows multiple pothole repairs where the alligator cracking has broken up. Differential settlement is observed along the majority of the road which questions the condition of the road base as a whole. Exposed macadam road base was observed in one location, see photo 7, in other locations pothole repairs have capped the macadam in place.

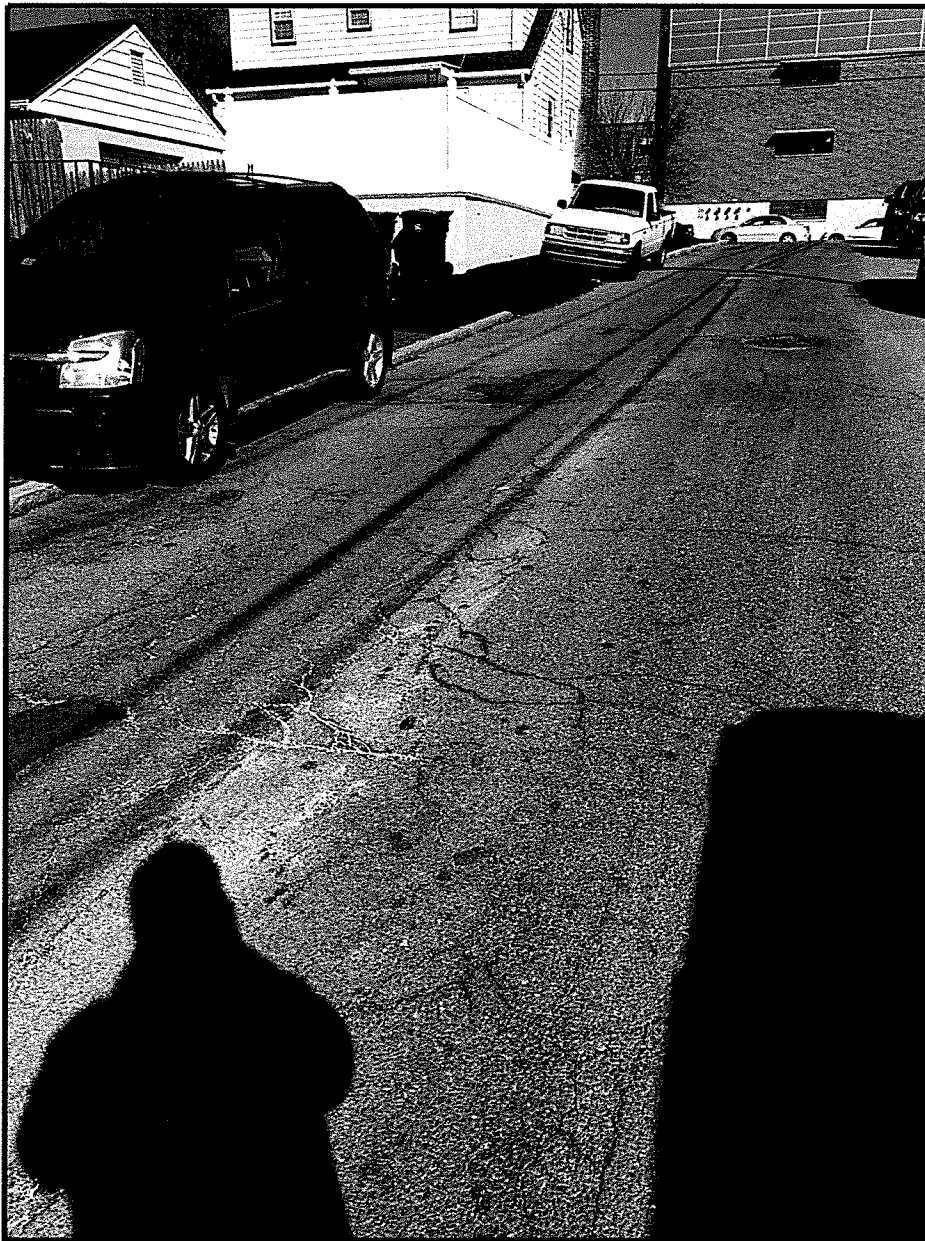
The street has granite curbing throughout but the granite curbing is in poor condition compared to Genesee and Essex Streets. The curbing is settling and is rolling over in multiple locations. The condition of the sidewalks are also slightly worse on Essex Street compared to the other streets in this cluster of streets. This condition is likely worsened by vehicles parking with two wheels on the sidewalk as is true for the entire cluster of side streets. Less curb reveal exists on Dedham Street and the percentage of sidewalks in poor condition is estimated at appx. 30-35%.

Ultimately the curbing should be removed and reset and the sidewalks be reconstructed in concrete. Due to the fact that macadam is exposed beneath the top layer of asphalt and that differential settlement is observed, the integrity of the base of the road as a whole is questionable. It is recommended that full depth reclamation of the road ultimately be completed concurrently with the resetting of the granite curb and reconstruction of the sidewalks in concrete.

Dedham Street

Mid-Block looking north towards Mountain Ave.

Photo shows alligator cracking of street
and vehicles parked on sidewalk



2/1/2016

Dedham Street

Photo shows typical alligator cracking of roadway and mediocre condition of sidewalks, curb and driveway aprons



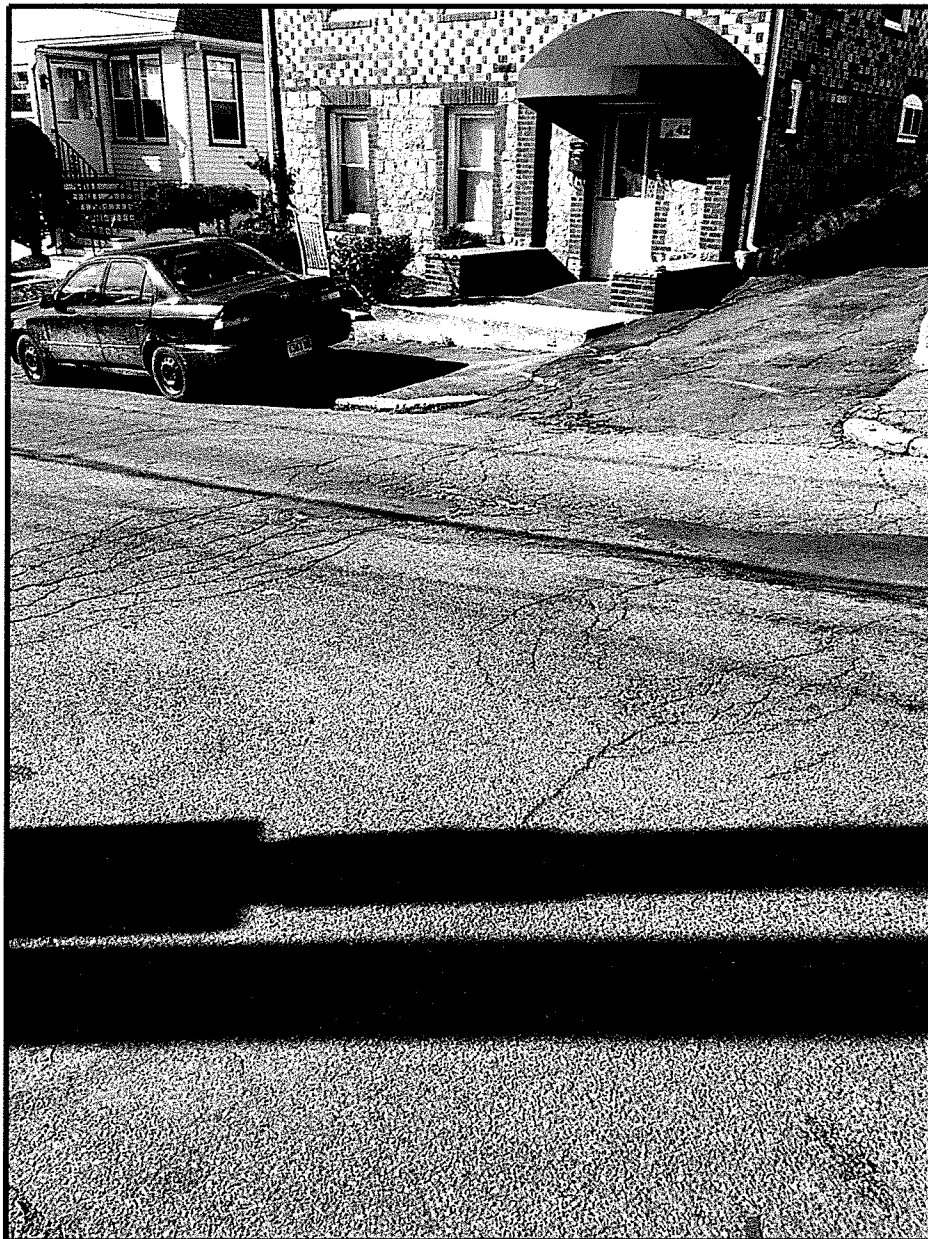
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Dedham Street

Photo showing typical alligator cracking and differential settlement, evidence of a failed road base is apparent.

Driveway aprons breaking up and in poor condition.

Curbing has settled and has minimal reveal.



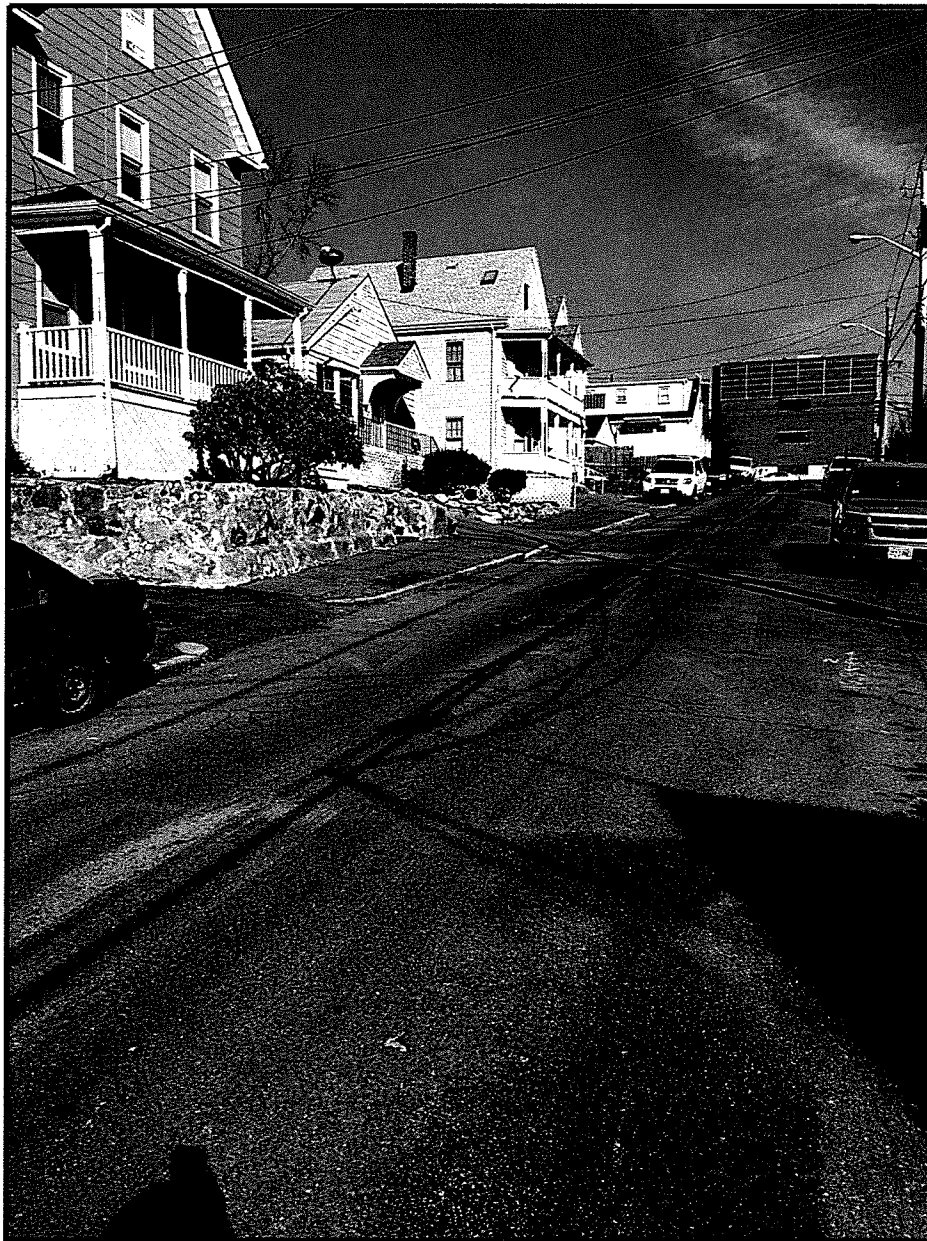
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Dedham Street

Mid-Block looking north towards Mountain Ave.

Photo shows settlement of sections of curbing and pothole repairs of roadway surface.

Typical cracking of roadway shown.

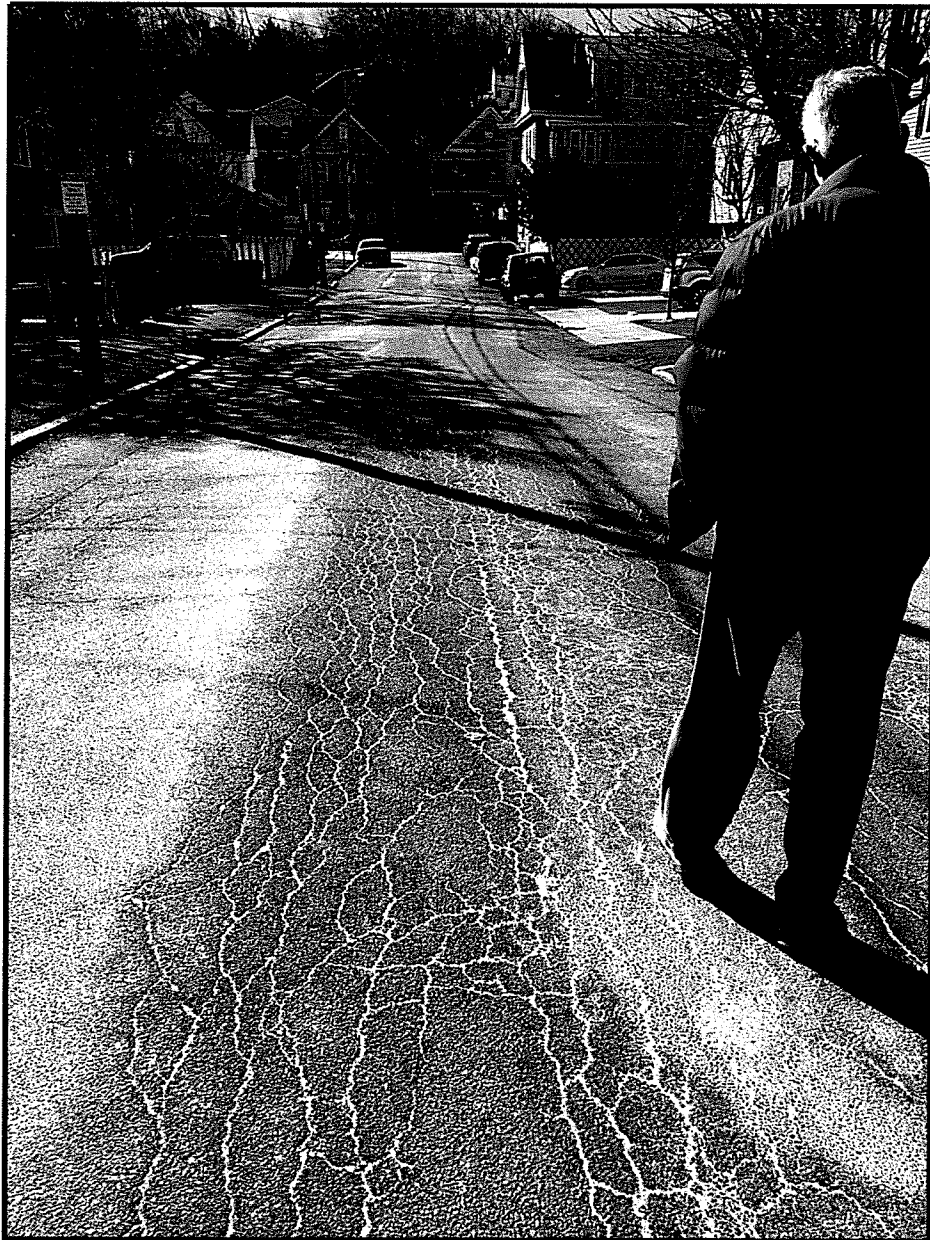


Dedham Street

Mid-Block looking south towards Park Ave.

Photo shows extensive alligator cracking
(highlighted by salt within cracks)

Pavement failing and will begin to fall apart
in coming years. Failures beyond preservation
methods. Condition of base questioned.



Dedham Street

Looking north towards Mountain Ave.

Extensive alligator cracking and settlement observed.

Alligator cracking will continue and pothole repairs will become necessary in the near future.



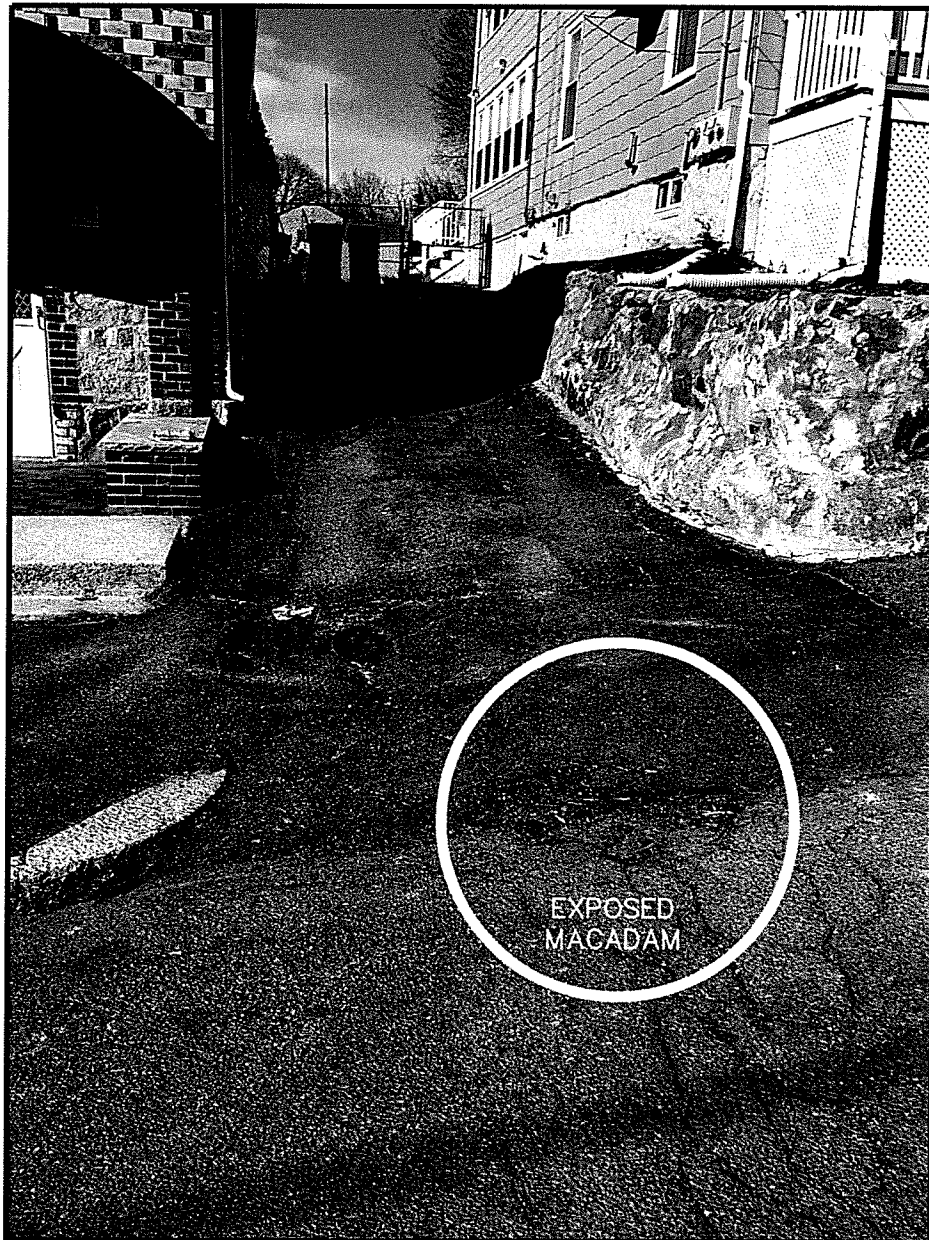
2/1/2016

Dedham Street

Photo shows condition of road and driveway.

Note exposed macadam (road base).
Milling of road will take road surface
down to the macadam base.
If road is milled, binder and wearing
course should be applied.

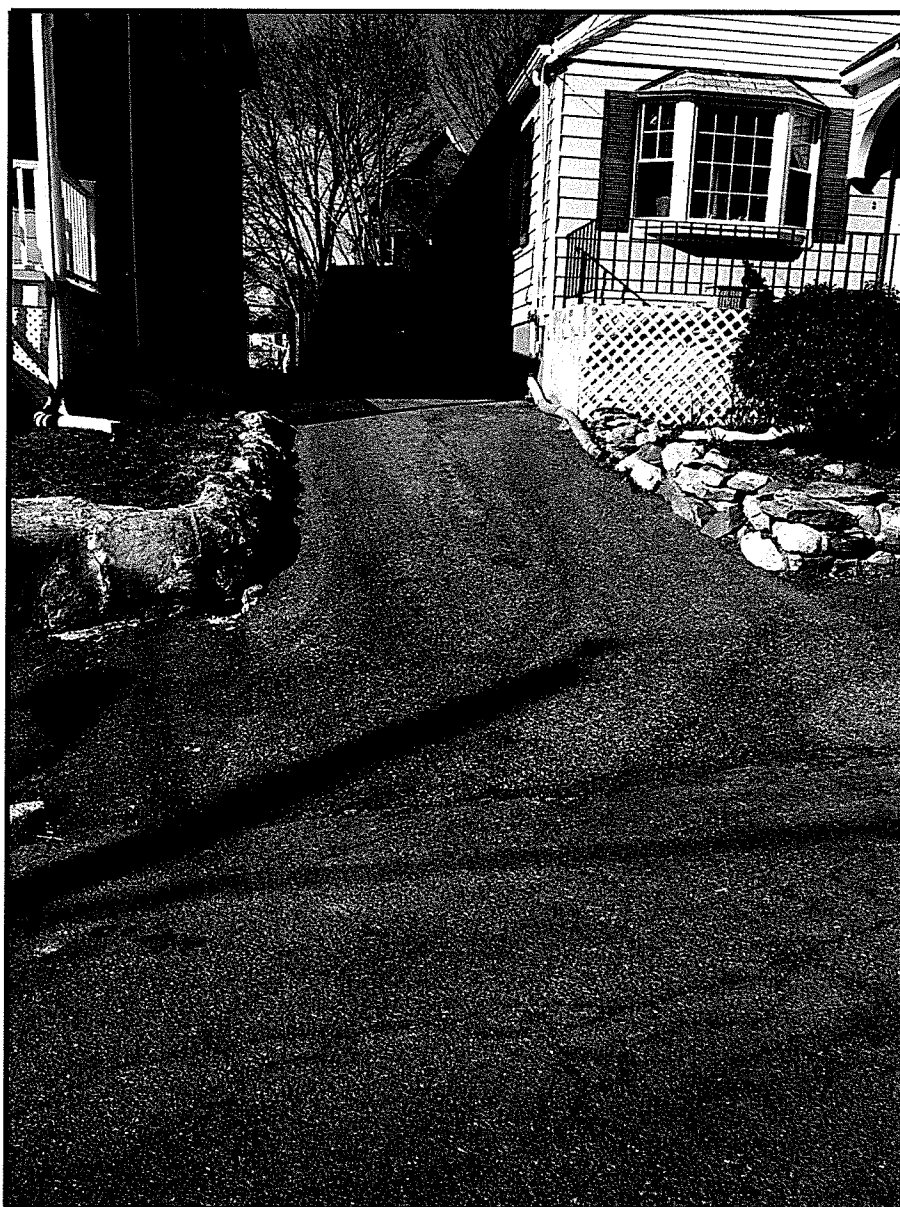
Extensive evidence of this condition indicates
roadway reclamation is warranted.



Dedham Street

Photo showing slope of driveway continuing to roadway surface. Cross slopes of existing sidewalks in areas such as this do not meet ADA cross slope requirements.

Bringing walks into ADA compliance may required dropping grade at the backs of effected sidewalks thus exposing the bottoms of retaining walls shown. Raising curb to full 6" reveal alleviates this, but does not eliminate the issue.



Dedham Street

Photo looking north towards Mountain Ave.

Shows vehicles parked on sidewalks and poor condition of driveway apron & unpaved driveway on private property.

Pothole repairs shown, catch basin shown requires adjustment, possibly needs to be re-built.

