

PHASE 1 - FEASIBILITY ANALYSIS

Arlington Ave.

(Centennial Ave. to Dead End)

Arlington Ave. is overall in very poor condition. Curbing exists on the east side of the street but not on the west side of the street. Asphalt sidewalks exist where there is no curb and the condition of the concrete sidewalks elsewhere is very poor bordering on failed. Note the condition of the sidewalks in pictures 4 & 5. Snow removal from such walks is impossible. The walks are uneven and plagued with tripping hazards. No curbing exists on the dead end portion of the road south of James Street and has asphalt sidewalks that blend into the road. The road itself suffers the full gamut of pavement failures but shows evidence of an existing thickness of pavement required to support milling and paving. Note photo 7 & 8 showing sound pavement at pothole failures. Conversely, due to the extensive alligator cracking and settlement seen on the road, the condition of the base of the road is questionable. Settlement may be accelerated due to multiple asphalt overlays thus increasing the load on the road base and increasing settlement. Multiple pothole repairs have been completed and such repairs themselves are starting to fail. On the plus side, the dead end of Arlington Ave. has adequate drainage controls, see photo 14. It is unclear if Arlington's drain system can be connected to Walnut Ave. by grade, more investigation is needed.

Another plus for Arlington is the lack of water main issues, since 2006, no water main breaks have been reported. During the summer of 2014, the water main on Florence, Walnut and James was replaced. The existing 8" main on James Street was found to be thick walled and strong, opposed to the existing pipe on Walnut and Florence which was thinner walled and broke apart very easily during excavation. The water work tied into Arlington at James and the pipe on Arlington seemed to be the same as the ex. pipe on James, which was very strong in comparison to Walnut and Florence. Despite that, the condition of the water main overall is poor. While the pipe is sound, the pipe is very choked by tuberculation (the buildup of mineral deposits on the inside of cast iron water pipes) thus drastically reducing flow and water quality. The main on Arlington does not require full replacement, but does require cleaning and cement lining. Unfortunately the cost difference between cleaning and lining vs. full replacement at 8" pipe size is minimal, thus the decision of full replacement vs. cleaning and lining is a difficult decision. Ideally new water main should be installed to match the surrounding streets, such work should be completed prior to addressing the street itself.

Ideally, Arlington Ave would see new water main installed to match the new installation of the adjacent streets, this would give the City of Revere confidence that a complete section, be it a small section of the city, does has new water pipes and will be problem free for many years to come. After the water main is installed, ideally the street would be reclaimed, new curbing installed where none exists, curb reset where it already exists and concrete sidewalks installed everywhere.

Arlington Street

Looking north towards Centennial Ave.

Asphalt sidewalk shown in poor condition. No curbing exists.



Arlington Street

Looking north towards Centennial Ave.

Photo shows concrete sidewalk section
breaking up and multiple
pothole repairs of the roadway
over the years.



Arlington Street

Heading south on Arlington Ave.

Photo shows roadway deteriorating and inconsistent sidewalk materials on the street.



Arlington Street

At Park Ave. looking north.

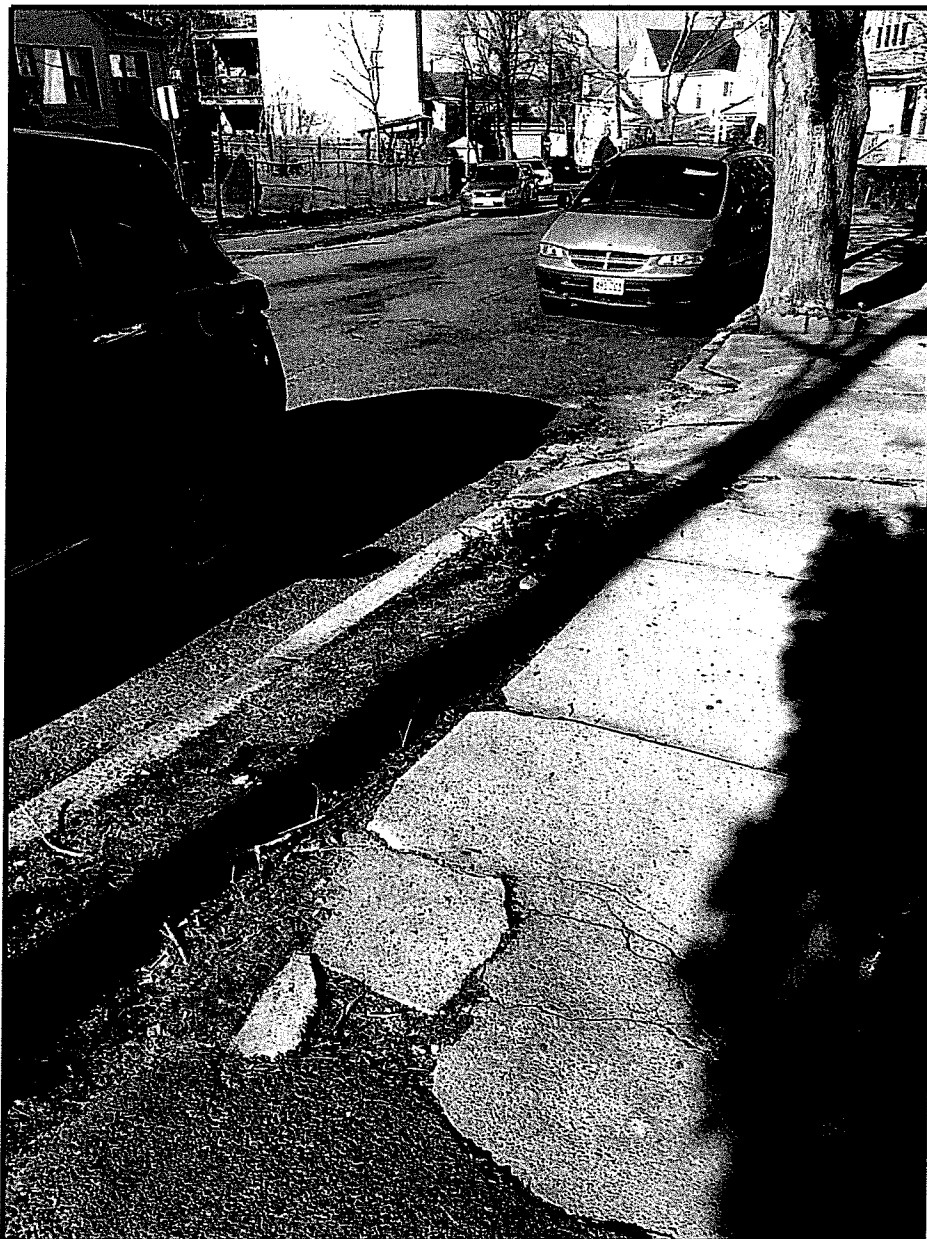
Photo shows roadway and concrete sidewalk breaking up. Curbing settling and rolling over, curbing in poor condition as well.



Arlington Street

At Park Ave. looking north.

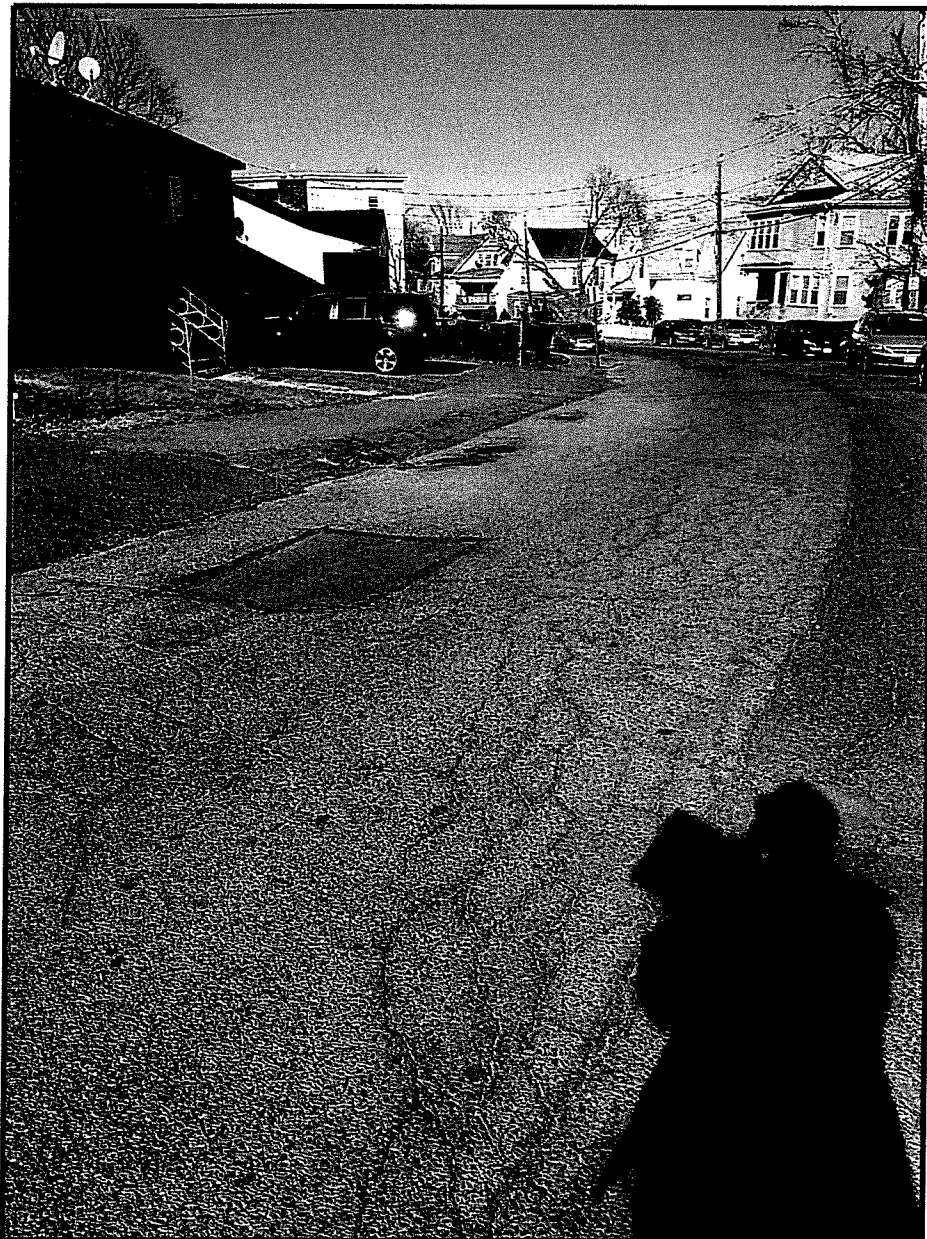
Continuing south on Arlington, the condition of the road, curb and sidewalk is consistent. Note asphalt sidewalks on far side of road. Sidewalks inconsistent.



Arlington Street

Continuing south on Arlington Ave.

Alligator cracking of roadway continues. Utility trench shown. Roadway will begin to fall apart in near future thus requiring extensive pothole repairs.



Arlington Street

Continuing south on Arlington Ave.

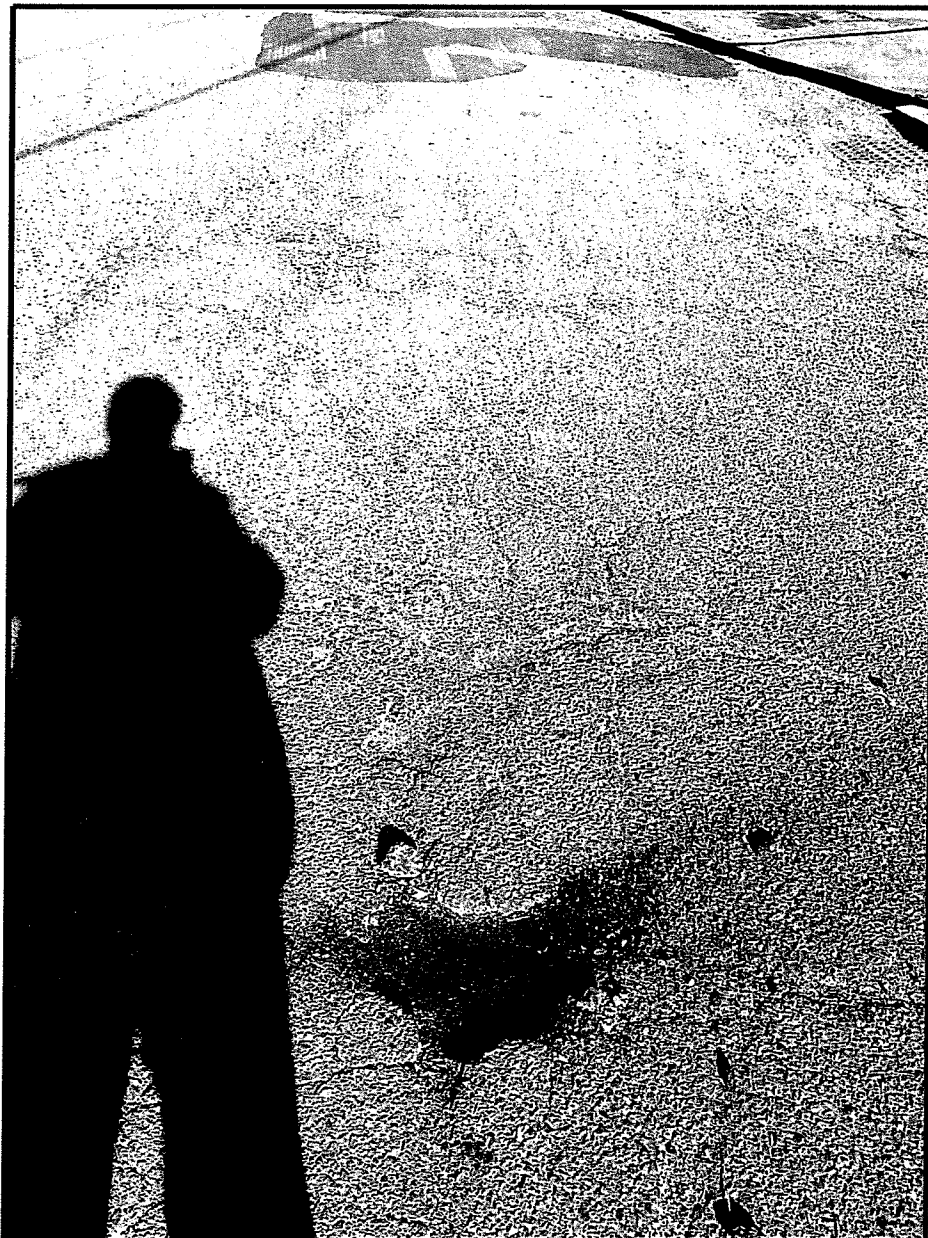
Top layer of asphalt broken away at utility casting. Solid asphalt exists below top layer. Road should support milling and paving.



Arlington Street

Another photo of a pothole on Arlington.

Solid asphalt exists beneath the top layer, therefore the road should support milling and paving.

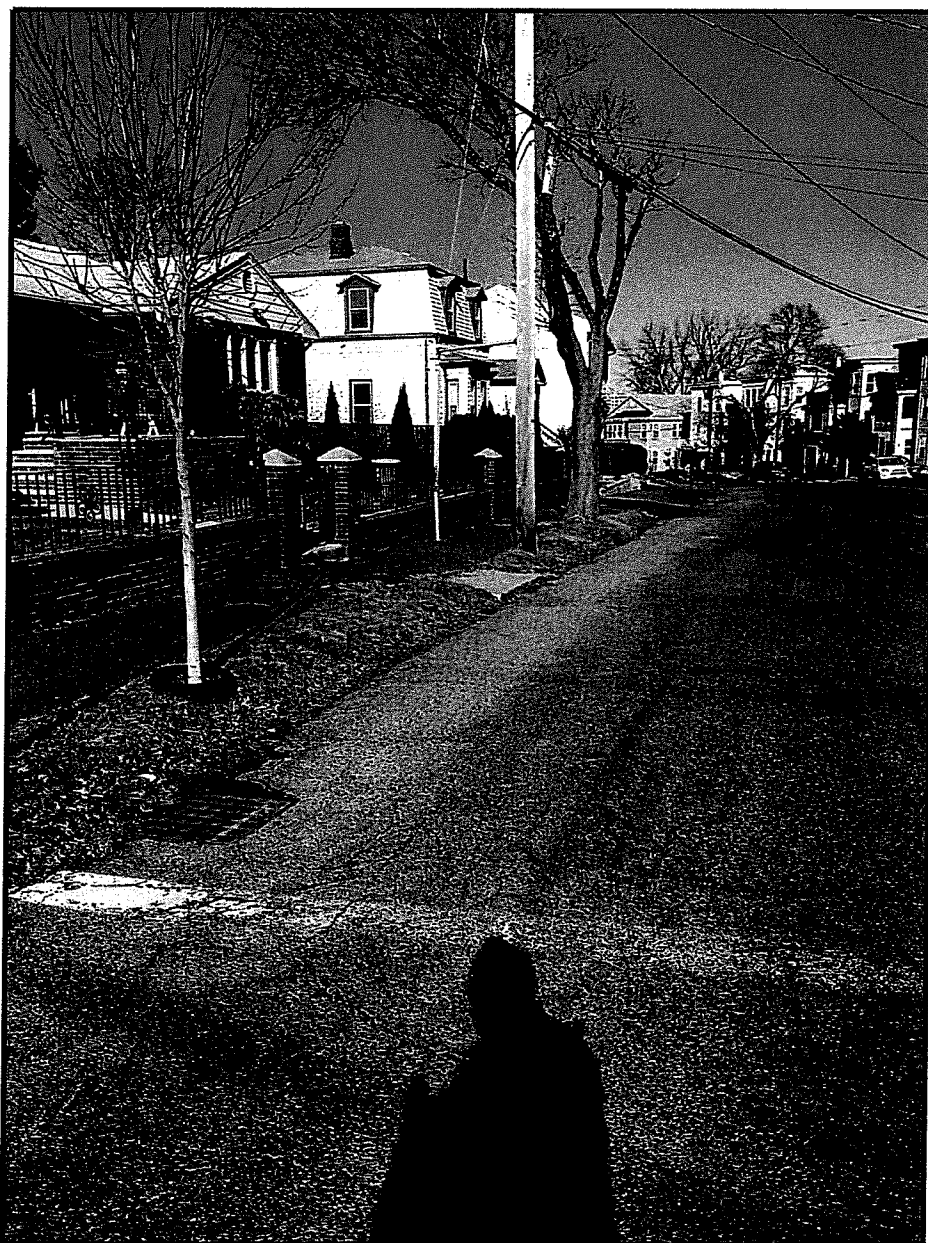


Arlington Street

At James St. looking north

Asphalt sidewalks in decent condition at brick wall, but in poor condition beyond that house.

Cracking of roadway is consistent along the road.



Arlington Street

At James Street looking north

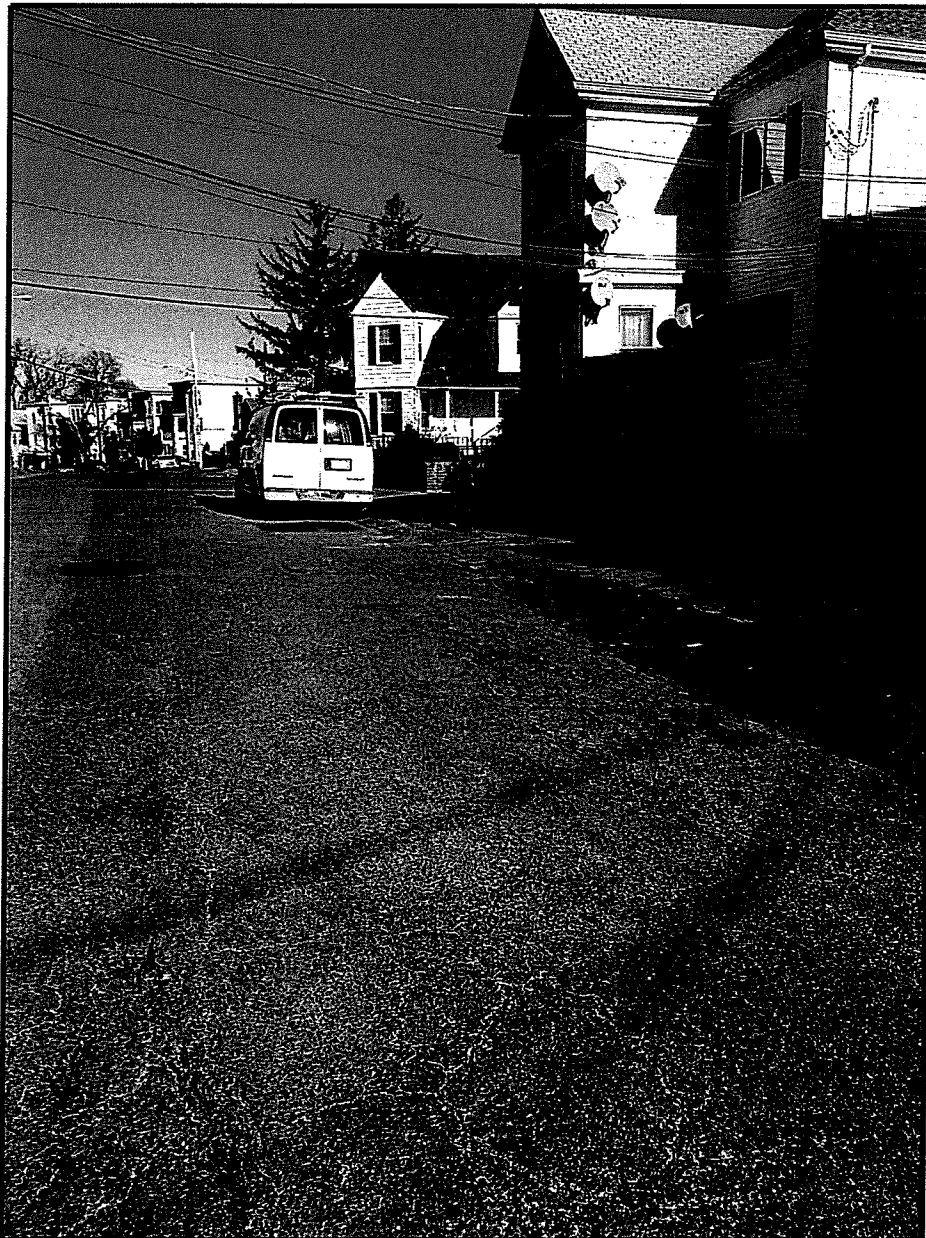
Photo highlights multiple pothole repairs as alligator cracking breaks away. Note inconsistent nature of curbing and sidewalk materials and poor condition of asphalt sidewalks.



Arlington Street

South of James St. looking north

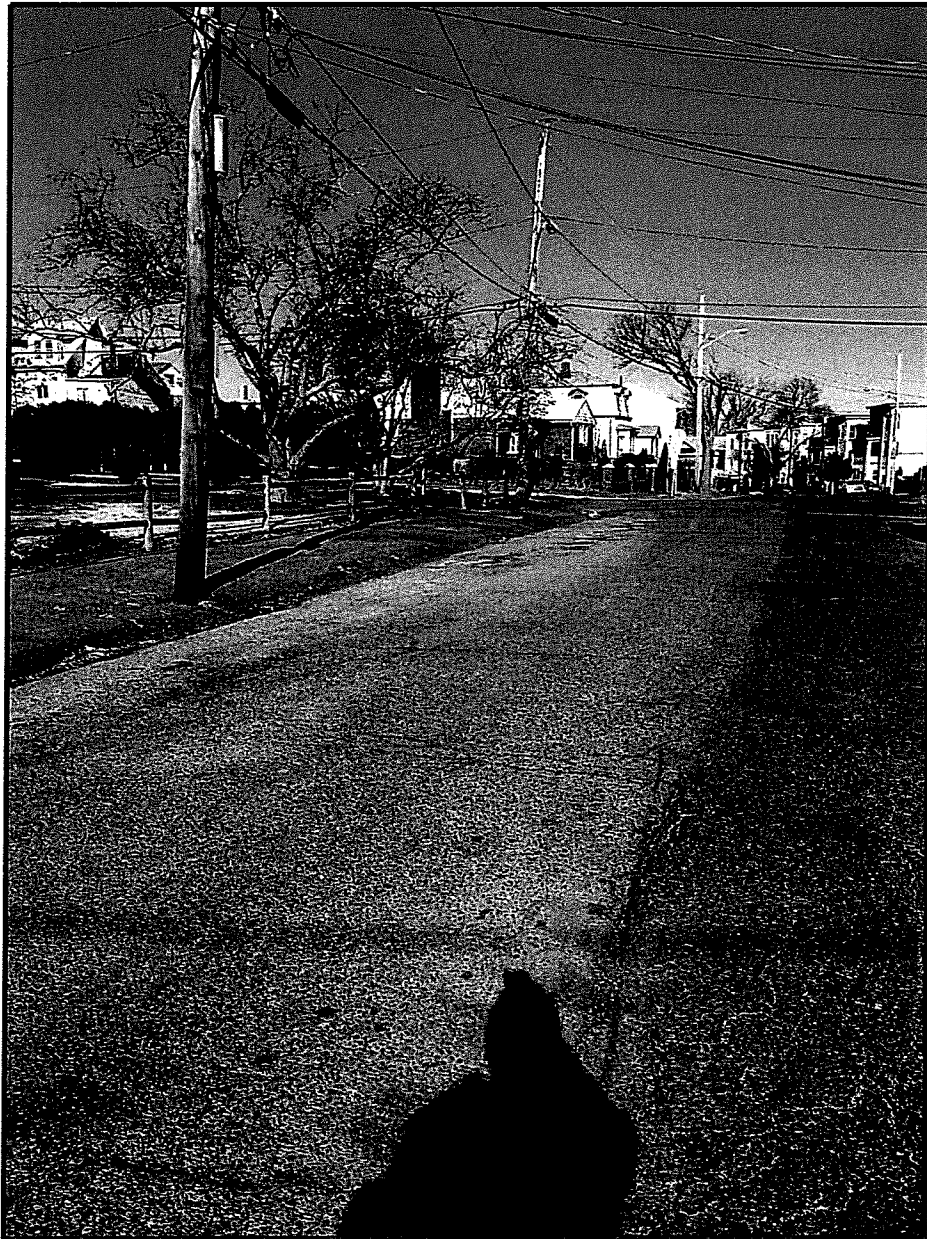
The dead end block of Arlington lacks curbing.
Condition of roadway and asphalt sidewalks poor.
Roadway beginning to break up, note pothole
repair.



Arlington Street

Continuing south, looking north

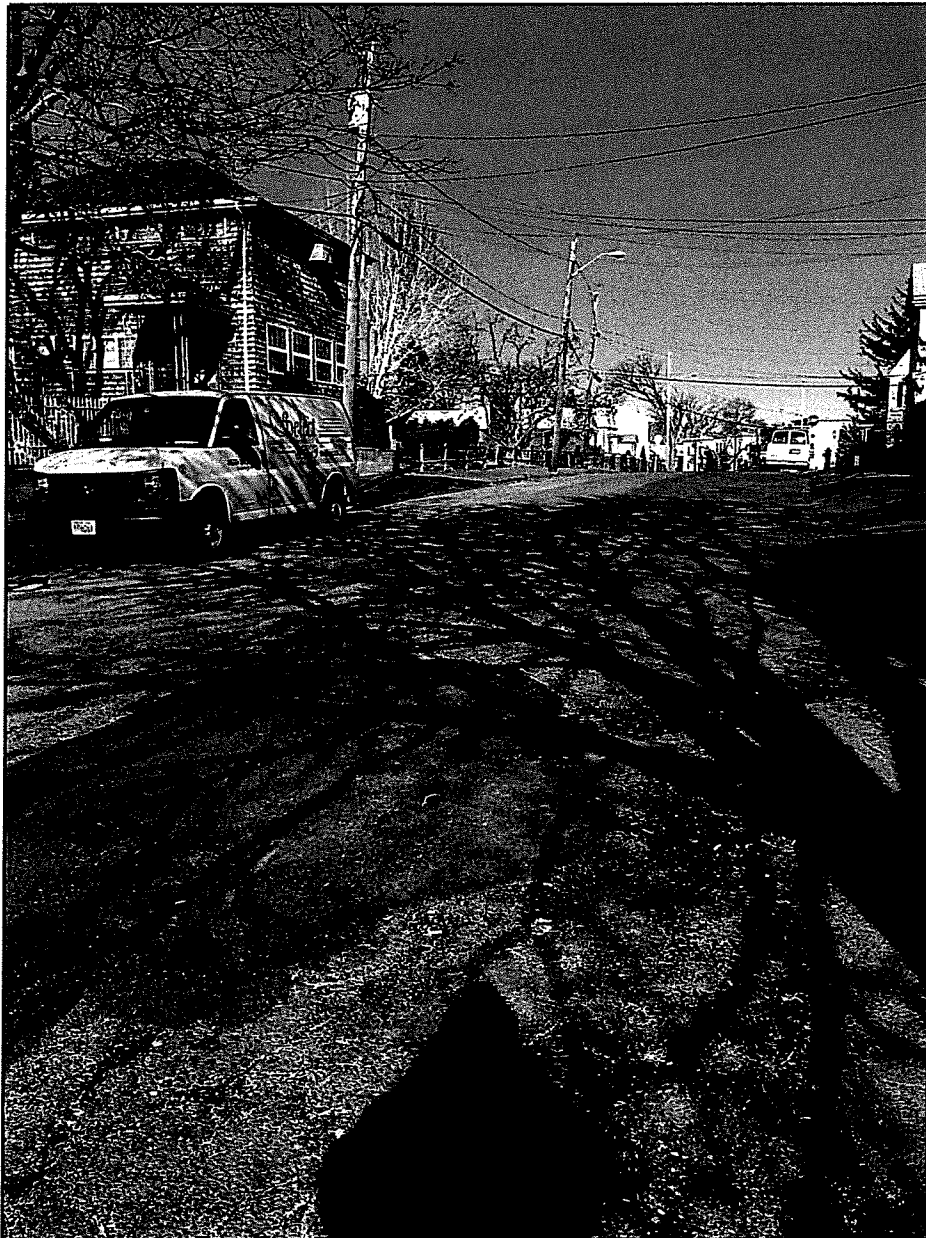
Condition of roadway and sidewalks
continues consistently



Arlington Street

Continuing south, looking north

Large pothole repair shown.
Roadway breaking up in area surrounding pothole
repair. Deterioration will continue into the
future thus requiring more pothole repairs.



Arlington Street

Looking south at dead end

Dead end of Arlington has drainage installed.

No downstream erosion conditions have been mentioned, opposed to dead end of Walnut Ave. where no drainage exists and erosion of the downstream sloped hill is extremely apparent.

