#### **Pavement Preservation**

Town of Providence, NY
George Whitney
Highway Superintendent

#### Introduction

- George Whitney
  - Highway Superintendent
    - Started Jan, 2010
  - Town Board Member 16 years
  - Town highway involvement 20 years
  - Lifelong Town of Providence resident

#### Outline

- Existing conditions
- Need to change
- Changes made
- Expected results



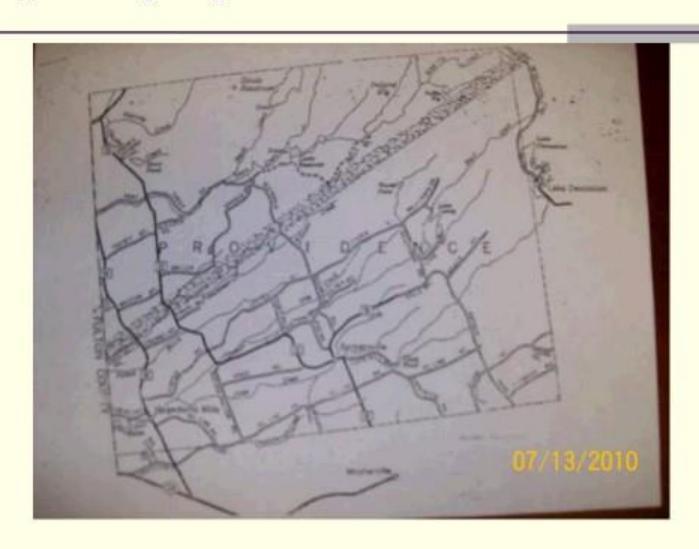
### **Existing Conditions**

- 90 Lane Miles including 20 gravel
- Minimal road histories
- No Pavement Management System
- Worst first philosophy
- No condition ratings
- No traffic volumes
- System generally in fair condition

# Staffing, Equipment & Budget

- 6 employees + Highway Superintendent
- 4 10 wheel dump trucks
- Grader, Gradall, loader, excavator, roller, tractor mower
- Total budget \$870,000
  - Pavement Projects \$240,000
  - Snow and Ice \$238,000

# **Highway System**



#### Actions taken

- Met with employees
- Met with peers
- Met with Town Board
- Attended Pavement Preservation meeting
- Met with local vendors
  - Asked for advice



#### **Adopt Pavement Preservation Policy**

- Worst First has not worked
- Keep good roads good
- Concentrate on higher volume roads first
  - Chip away at poor roads over time



### Inventory

- Search available records to establish road history
- Complete field inventory
  - Lengths
  - Widths
  - Physical features
  - Logical termini

### **Establish Rating System**

- Keep it simple
  - Town Board
  - Town voters
- Rate roads

# **Grading Scale**

| 10 | Absolutely perfect, road done this year  |
|----|--|
| 9  | Road needs nothing   |
| 8  | Light to medium cracking - crack sealing needed  |
| 7  | Moderate cracking, few bad spots – crack sealing – micropaving or other overlay possible |
| 6  | Heavy cracking, rutting beginning to take place – possible paving or reclaiming          |
| 5  | Heavy cracking and rutting - reconstruction needed                                       |
| 4  | Road beginning to break up, rocks coming through, rutting badly                          |
| 3  | Road broken up very badly  |
| 2  | Road impassable by vehicle traffic   |
| 1  | Road impassable by even 4 by 4   |

# Inventory/Condition Rating Tool

Example

### Develop Highway Program

- Funding Constraints
  - Crack seal vs reconstruct
  - Concentrate on highest volume road



# Summary

- Existing conditions
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### Questions

