



Pavement Management Program

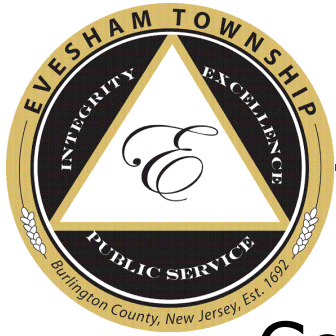
Presented By:

Timothy R. Staszewski, P.E., C.M.E., C.P.WM

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REMINGTON
& VERNICK
ENGINEERS



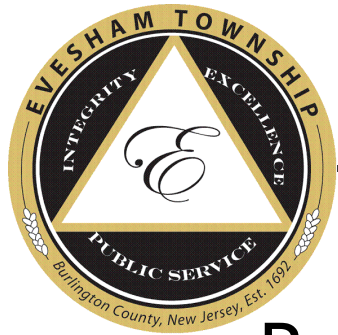
Overview

■ Goal

- Develop a Township-wide inventory
- Organize Maintenance Priority List
- Promote efficient roadway investment

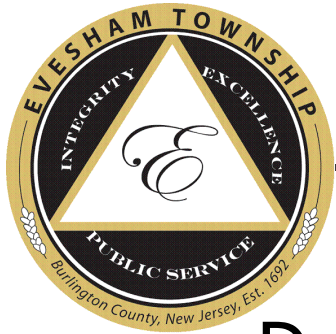
■ Uses

- Projections for yearly maintenance plans
- Recommends treatment types for roadways
- Maximizes return on investment



Rating System

- Roadways rated on a 1-100 scale
 - Individually field rate each road based on AASHTO and/or ASTM standards
 - Mobile reports are programmed to derive ratings based on inputted data
- Mobile device-based data collection
 - New mobile reports completed for each roadway
 - Only 2 engineers were used to ensure consistency
- Spreadsheet developed to organize data
 - Sorts roadways by rating
 - Factors in cost of treatment and township budget



Rating System

Deficiency Categories

- Alligator Cracking
- Potholes
- Drainage Issues
- Polishing
- Pavement Distortion
- Longitudinal Cracking
- Ride Quality

Client: Evesham Date of Inspection: 2021-01-15
 Municipality: Evesham RVE Job # 0313T182 Inspector: Normandy Drive

Street :	From:	To:	Previous Treatment	Year	Length	Width	Square Yards
Normandy Road	Britney Boulevard	Britney Boulevard			3660	34	13826.67

Curbing: Drainage:

Material:	Comments	Type	Quantity	Comments
Type: <u>Belgian Block</u>		B-Inlet	13	
Condition: <u>Vertical</u>		A-Inlet		
<u>1</u>		E-Inlet		
		Other		
		Other		

Curb Ramps (C.R.): C.R. Delineation:

Traffic Markings/Stripes: Shoulder Single Yellow Double Yellow Stop Bars Ped. X-Walks Pavement Markings

Roadway: Treatment: Color Condition:
 Type: Type: Type:

Summary of Defects:




Alligator Cracks	Potholes	Drainage / Ponding Issues	Polishing	Pavement Distortions	Transverse / Longitudinal Cracks	Riding Quality
4	0	1	0	1	3	3
x 2	x 2	x 2	x 1	x 1	x 1	x 1
Sum of Defects =		17				

Note: Conditions for curb and pavement are rated as follows:
 (0 - 5) 0 = Very Good , 5 = Very Poor

Road Condition Rating = 100 - (Sum of Defects * 2) 66

Field Comments:

PHOTOS:



Deficiency Examples

- Alligator Cracking – Posterity Place

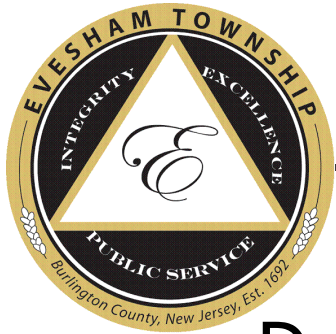




Deficiency Examples

- Potholes – Elmwood Road

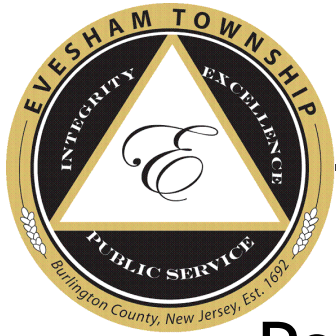




Deficiency Examples

- Drainage Issues – Blue Anchor Street





Deficiency Examples

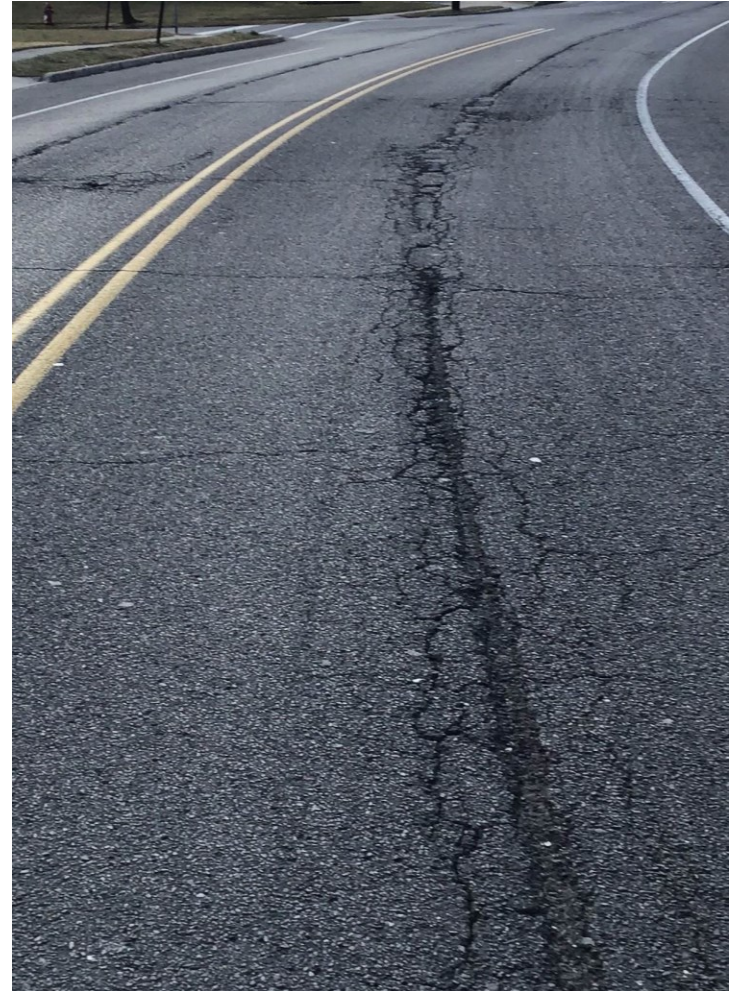
- Polishing – Prestwoud Court

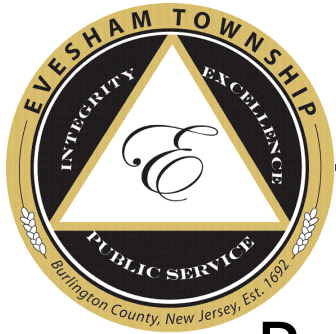




Deficiency Examples

- Longitudinal Cracking -
Plymouth Drive





Treatments

- **Reconstruct**

- Complete reconstruction of roadway
- For roads with limited structural integrity

- **Milling and Resurfacing**

- Roads with decayed surface
- Base of the road structurally sound
- HMA base repair included for small areas in need

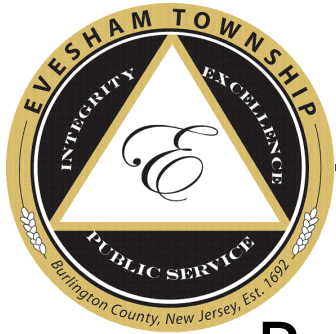
- **Microsurfacing**

- Prolongs the life of roads in good condition
- Very cost effective



Priority List

STREET NAME	FROM	TO	LENGTH	WIDTH	SQUARE YARDS	ROADWAY CONDITION RATING	TREATMENT	ESTIMATED PROJECT TOTAL
Arrowhead Drive	Flintstone Drive	Terminus	160	35	622	34	Reconstruct	\$37,209
Blue Anchor Street	Entire length		520	18	1040	36	Reconstruct	\$62,192
Oak Avenue	Evesham Avenue	South Locust Avenue	365	24	973	38	Reconstruct	\$58,205
Nottingham Road	Iron Gate Road	Willow Ridge Road	575	32	2044	40	Reconstruct	\$122,258
Paragon Avenue	Tuckerton Road	Terminus	445	26	1286	42	Reconstruct	\$76,876
Dutch Road	Clifford Lane	Tomlinson Mill Road	4360	20	9689	46	Reconstruct	\$579,396
Country Farms Road	Meadowview Circle	Shari Court	2370	38	10007	48	Reconstruct	\$598,399
Sunbird Drive	Route 73	Borough Limits	615	44	3007	48	Reconstruct	\$179,799
Tenth Street	Old Marlton Pike East	Terminus	1300	24	3467	48	Reconstruct	\$207,307
Apple Way	Lincoln Drive	Orchard Lane	1480	32	5262	50	Reconstruct	\$314,681
Cottage Street	Entire Length		335	24	893	50	Reconstruct	\$53,421
Fifth Street	Old Marlton Pike East	Terminus	445	20	989	50	Reconstruct	\$59,136
Greenbrook Drive	North Elmwood Road	Evesboro-Medford Road	3980	37	16362	50	Reconstruct	\$978,461
Posterity Place	Preamble Drive	Cul-de-sac	410	34	1549	50	Reconstruct	\$92,624
Thornwood Drive	Greenbrook Drive	Thornwood Drive	2570	32	9138	50	Reconstruct	\$546,439
Woodthrush Court	Smallwood Court	Cul-de-sac	495	31	1705	50	Reconstruct	\$101,959
Birchwood Drive	Greenbrook Drive	Greenbrook Drive	1335	31	4598	52	Reconstruct	\$274,980
Hopewell Road	Deerfield Avenue	Kettle Run Road	4300	25	11944	52	Reconstruct	\$714,278
Hopewell Road	Bortons Road	Deerfield Avenue	6300	25	17500	52	Reconstruct	\$1,046,500
Hopewell Road	Township Line	Bortons Road	6075	25	16875	52	Reconstruct	\$1,009,125
Lincoln Drive West	Greentree Road	Route 73	2425	42	11317	52	Reconstruct	\$676,737
Wescott Road	Waverly Road	Marlton Parkway	675	42	3150	52	Reconstruct	\$188,370
Laurel Road	Tuckerton Road	Terminus	575	20	1278	54	Reconstruct	\$76,411
Smallwood Court	Greenbrook Drive	Cul-de-sac	690	31	2377	54	Reconstruct	\$142,125
Valley Forge Road	Brandywine Drive	Charter Oak Lane	665	28	2069	54	Reconstruct	\$123,720



Deliverables

■ Report

- In depth description of rating methodology
- Defines rating conditions
- Explains treatment types and provides unit cost
- Includes valuation of all recommended repairs

■ Appendices

- Data sorted by rating, proposed year of repair, and alphabetically
- Color coded township road map

Questions?

