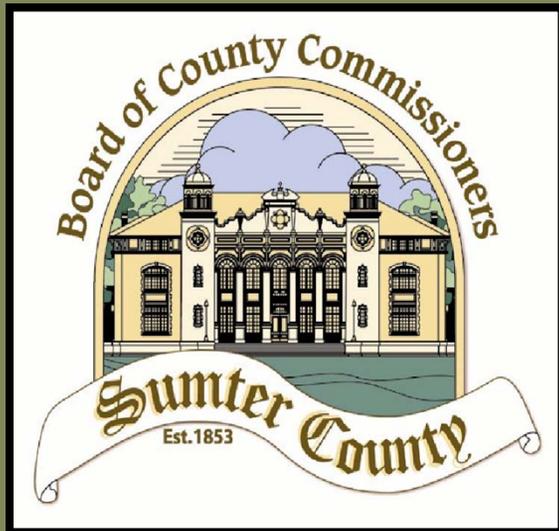


Sumter County, FL 5 Year Pavement Improvement Plan



Presented by: VHB MillerSellen
June 21, 2011

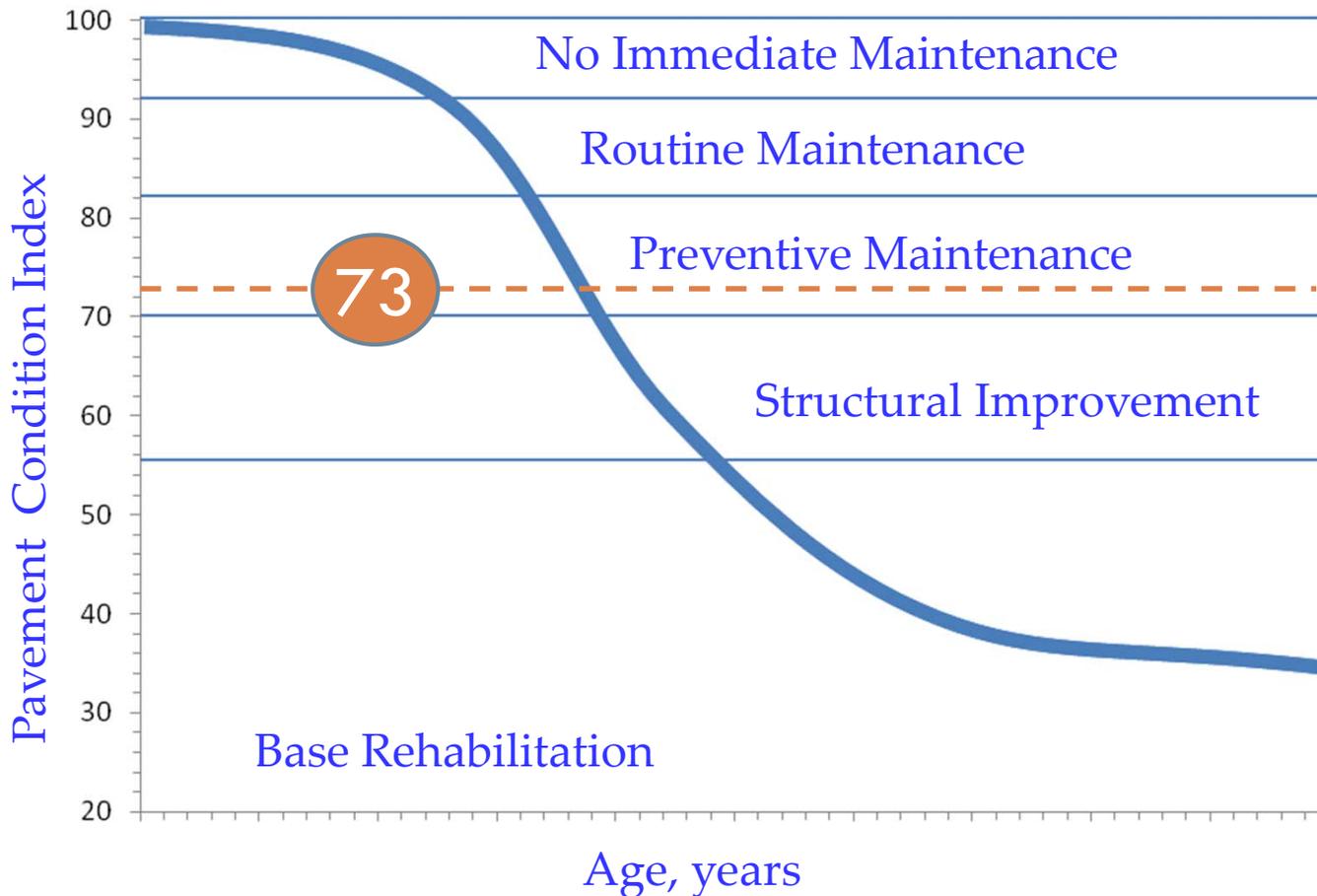


Presentation Overview

- Review Study Results
- Project Prioritization
- Candidate Project List Refinement
- Overview of Plan
- Annual program development

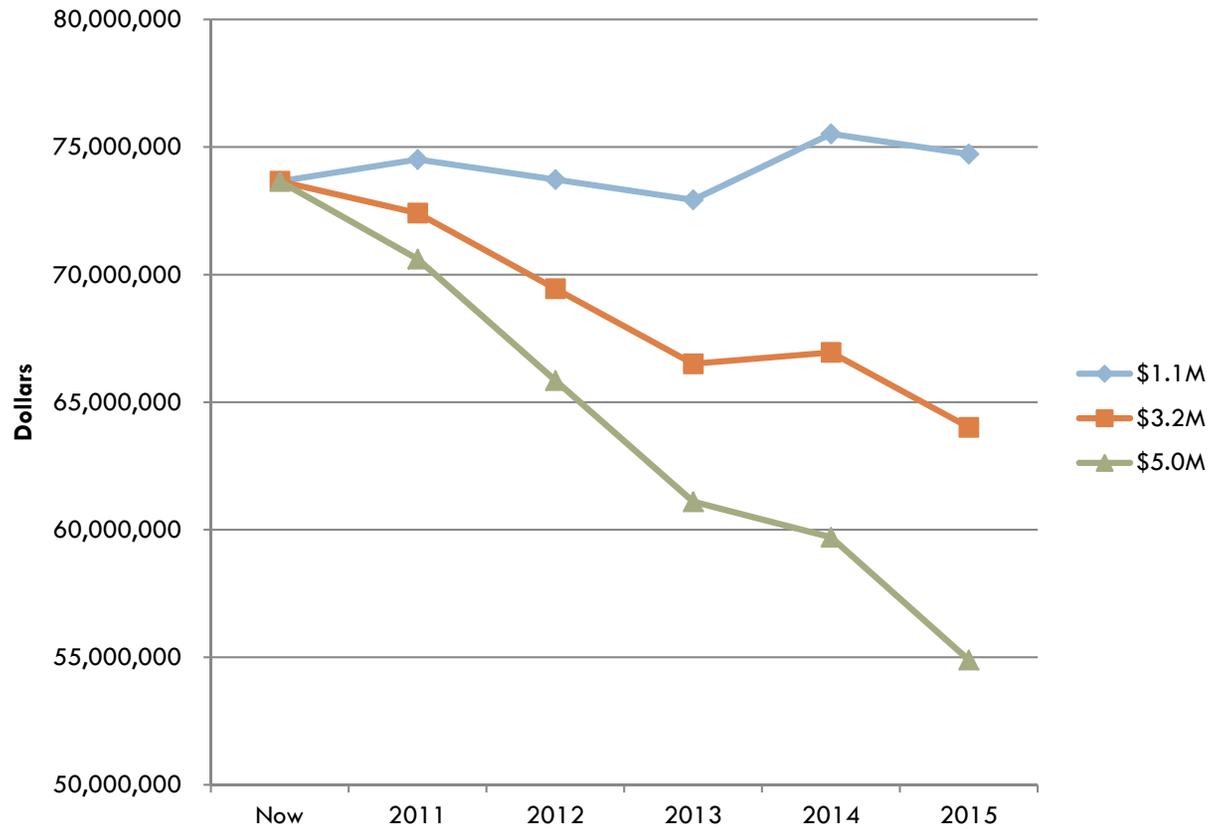
Pavement Management Study Results

Average Weighted Pavement Condition Index = 73



Pavement Management Study Results

Future Pavement Backlog Comparison



Project Prioritization

Benefit Value (BV) = Project Priority

	ADT	x	Life						
BV =	-----			x	Evac Route	x	Land Use	x	Truck
	PCI	x	Unit Cost						

- ADT = Actual or Estimated Average Daily Traffic
- Life = Estimated Life of Treatment
- PCI = Pavement Condition Index
- Unit Cost = Estimated Unit Cost of Treatment (per sy)
- Evac Route Factor = 1.1 for Evacuation Routes, 1.0 for all other Routes
- Land Use Factor (see next slide)
- Truck Factor (see next slide)

Project Prioritization

Land Use Factors:

Industrial	1.2
Commercial	1.2
Suburban	1.1
Residential	1.1
Rural Residential	1.0
Agricultural	1.0

Truck Factors:

% Trucks	Factor
0 - 5	1.0
6 - 10	1.2
11 - 15	1.4
>= 16	1.8

Treatments

Microsurface	8	3.25
Thin Overlay	12	6.00
Structural Overlay	18	25.00
Base Rehabilitation	25	40.00

Estimated Life

Unit Cost (per sy)

Candidate Project List Refinement

- ❑ MicroPAVER software was used to develop prioritized list of “candidate” projects
 - ❑ Pavement Condition Index (PCI) provided first cut
 - ❑ Benefit Value (BV) provides adjusted recommendation
- ❑ System generated project list was refined to group projects on adjacent road sections
- ❑ Road sections planned for State or Impact Fee funding considered separately
- ❑ Some projects moved from one year to next to fit projected budget
- ❑ Amount reserved each year for design, survey, & geotech
- ❑ “Neighborhood Pavement Preservation Supplemental Funds” set aside to allow logical pavement preservation treatments to be applied throughout a neighborhood
- ❑ Projects listed in later years of program may change if funding or conditions change

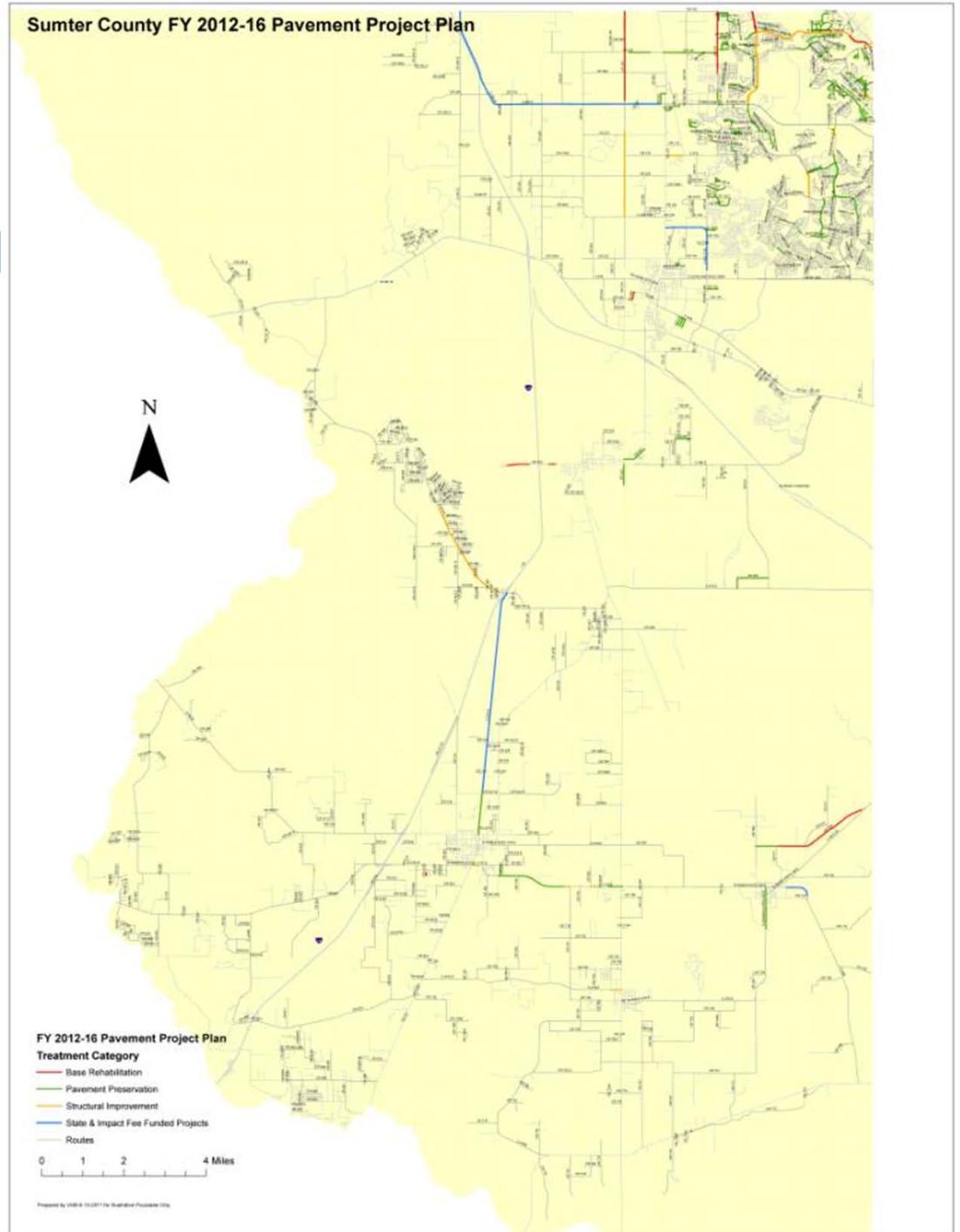
Candidate Project List Refinement



Overview of Plan

Fiscal Year	Programmed Projects	Design, Survey, Geotech	Pvmt Pres Supplement	Total
2012	\$ 2,757,874	\$ 184,893	\$ 257,233	\$ 3,200,000
2013	\$ 2,850,371	\$ 136,208	\$ 213,421	\$ 3,200,000
2014	\$ 2,914,786	\$ 144,842	\$ 140,372	\$ 3,200,000
2015	\$ 2,452,588	\$ 204,328	\$ 143,084	\$ 2,800,000
2016	\$ 2,225,995	\$ 120,686	\$ 153,319	\$ 2,500,000

Overview of Plan



State and Impact Fee Project Funding

- ❑ C-470 @ I-75 Interchange mill & resurface (SCRAP)
- ❑ CR-673 from US 301 to 4500' west mill & resurface (SCRAP)
- ❑ C-462 from CR 209 to C-466A to 3 lanes (Dev & Impact fees)
- ❑ C-466W from I-75 to CR 209 mill & resurface (CIGP)
- ❑ C-466E from CR 209 to US 301 (SCRAP)
- ❑ C-469 from Center Hill to SR50 mill & resurface (CIGP)
- ❑ C-475S from C-470 to CR 542W mill & res (GRSC & SCOP)
- ❑ C-468 from US 301 to SR44 to 4 lanes (Dev & Impact fees)
- ❑ C-466A from US 301 to Powell Road to 3 lanes (Impact fees)

Aggressive pursuit of alternative funding has resulted in benefits to Sumter County

Annual Program Development

- Managed by Engineering Branch of Public Works.
- A 5 year program that is updated every year (after year 1 is executed, then year 2 becomes the new year 1, and a new year is added as the 5th year)
- The entire network of County roads is driven again over a 4 year period and new PCI's and BV's derived
- Each year the annual funding includes money for design, survey and geotech needs of that year's program, and "up-front" funds to start design of longer lead/complex treatments in the next year

Annual Program Development

Each year the PWD will submit the updated 5 year program to the BOCC

- ▣ For review in June and for approval NLT 31 August.
- ▣ PWD will hold Community meetings in the North and South County in September each year, to inform the Public of the pending efforts in their areas
- ▣ Design, survey and geotech will be conducted via consultants, bids solicited, and contracts awarded from 1 Sep to 28 February.
 - Multiple contracts will be awarded, lumping similar treatments, and/or for specialty treatment requirements
- ▣ Construction will occur from 1 January to 30 June.
 - Contractors will be required to place door hangars in the areas to receive a treatment at least 1 week in advance
 - PWD will submit newspaper notice in advance
 - PWD will conduct CEI in house, with geotech support from contract labs

Sumter County, FL Pavement Management Study



Questions and Answers

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