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Bureau of Highways

FY 24 Proposed Capital Budget
Anne Arundel County Council Budget Hearing
May 8, 2023, 9:00 a.m.



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Long Range Capital Plans

- Consolidate from (6) staffed Road Operations facilities to (3) staffed facilities: (a) Southern (FY08), (b) Western (FY21), (c) Eastern (future)
- Consolidate all Traffic Engineering & Maintenance into a modern data driven Traffic Operations Facility (FY24).
- Optimize existing multi-year roadway capital projects. Invest in resilient infrastructure, enhanced ADA accessibility, and incorporate Bike/Ped accommodations where possible.
- Ensure investments in County roadways are in accordance with Federal and State regulations, permits, and law.



FY 2024 Project Funding Highlights

Project	Page	Name	FY24 (\$000)	GDP Policy	Program Driver
C589000	53	New - Traffic Maint Fac Upg Relo	\$1,910	BE.15.4	Enhance
C562400	36	Add'l Salt Storage Capacity	\$2,120	BE15.1	Capacity
C580000	45	West County Road Ops Yard	\$496	BE10.1	Enhance
H589700	224	New - Marley Neck Blvd Road Improvements	\$1,051	BE15.1	Safety
H590300	230	New - Shoreham Beach Road Imp	\$445	BE15.1	Safety
H583700	212	Pleasant Plains Rd Safety Imp	\$2,640	BE15.1	Safety
H583900	214	Andover Rd Sight Distance Impr	\$505	BE15.1	Safety
H586700	216	Outing Ave Retaining Walls	\$1,531	BE15.1	Safety / Extend Useful Life

Plus: FY24 Multi-Year Projects For the Masonry Program, Pavement Management Program, and Traffic Control Programs.



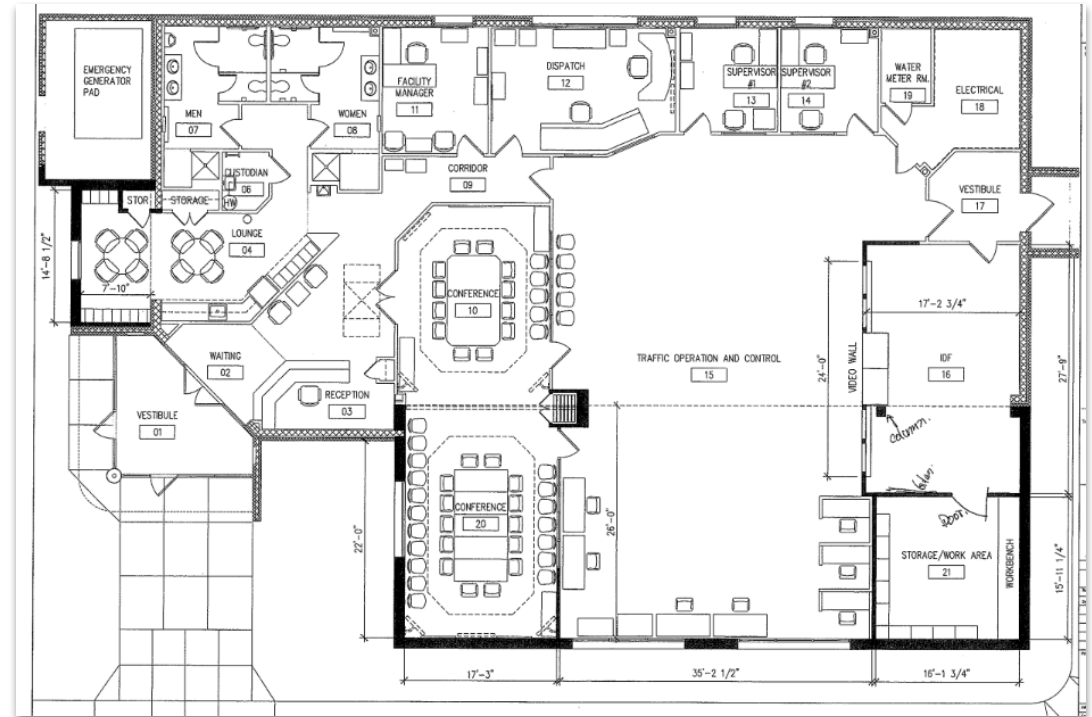
C589000: New - Traffic Maintenance Fac Upg Relo

This project will study, identify and develop design alternatives for improvements to the Traffic Maintenance shop campus and incorporation of a Traffic Management Center

FY23 Study = \$150,000; FY24 Req = \$1.91M - Design



Current Facility



New Facility With Traffic Management Center



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C562400: Additional Salt Storage Capacity

Current Capacity: 4.25 Tons/Lane Mile Goal: 5.0+ Tons/Lane Mile

Fiscal Year Request	Total Capacity, tons	Capacity, tons/lane mile	Location of Added Capacity
FY24 - \$2.12M (Updated Project Estimate)	21,000 tons	5.27 tons/lane mile	<ul style="list-style-type: none"> ➤ Mountain Rd Yard Addition ➤ Broadneck Rd Replacement ➤ Broadneck Rd Demolition - FY23 ➤ Dover Rd Demolition - FY23 ➤ Dover Rd Replacement - FY23 ➤ W. Central Ave Demolition - FY24 ➤ W. Central Ave Replacement - FY24



DPW is making extensive use of environmentally friendly strategies to include use of salt brine to “anti-ice” before an event and to “pre-wet” salt during an event, as a part of the Department’s overall Salt Management Plan.



C580000: West County Road Ops Yard

Replace and relocate ca. 1950s Odenton Yard due to functional obsolescence, incompatibility with residential area, and Transit Oriented Development (TOD) at the Odenton MARC Station.

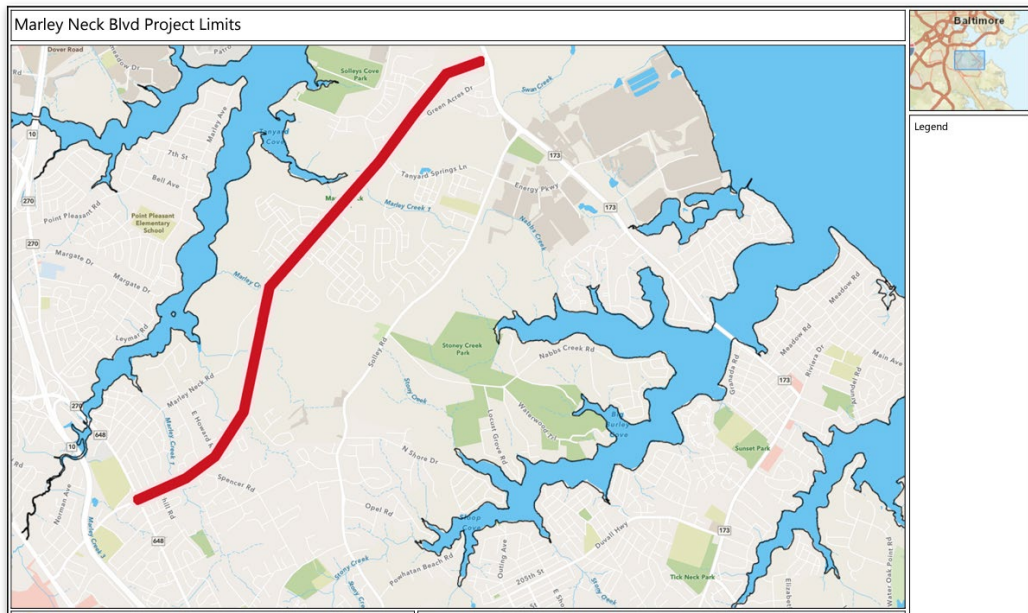
FY24 Request = \$496,000 - Updated project estimate; FY25 Request = \$450,000 - Furniture/Fixtures



H589700: New - Marley Neck Blvd Road Improvements

This project will identify and develop sketch design for locations along Marley Neck Blvd where existing cross sections do not match the ultimate cross section of the corridor.

FY24 Request = \$1,051,000; FY27 = \$15.692M



Location Map



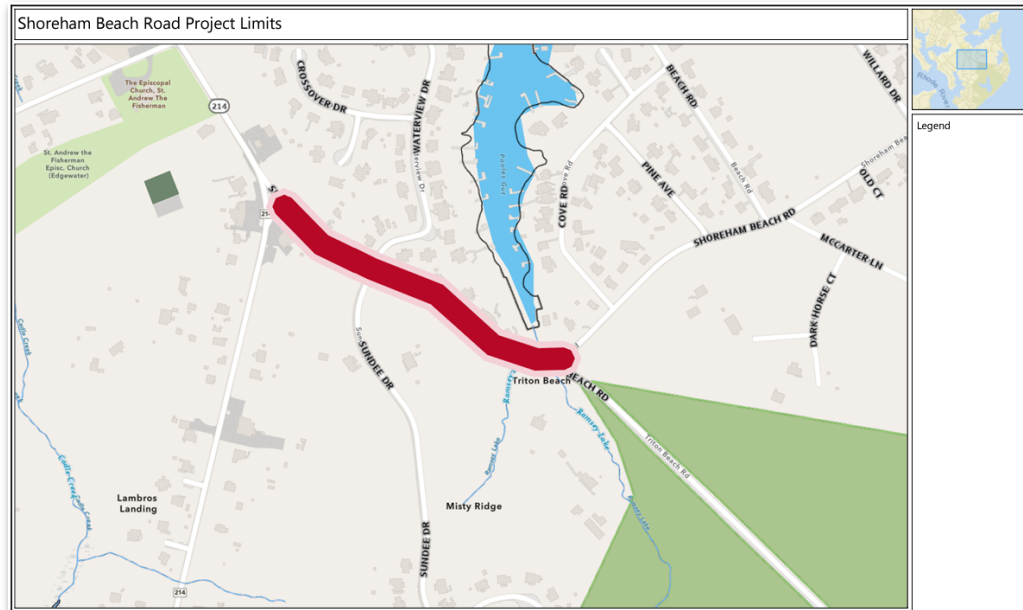
Existing Conditions



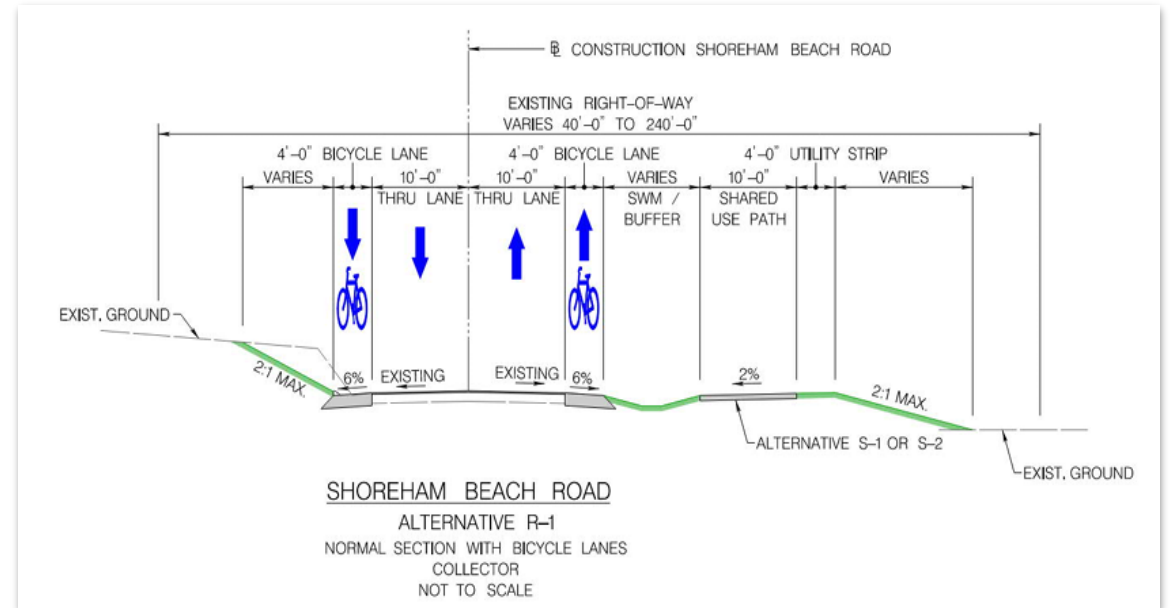
H590300: New - Shoreham Beach Road Improvements

This project will study the Shoreham Beach Road and Triton Beach Road intersection, and include bicycle and pedestrian facilities as recommended in the H478854 project.

FY22 = HSI Study; FY24 Request = \$445,000 (Design Development)



Location Map



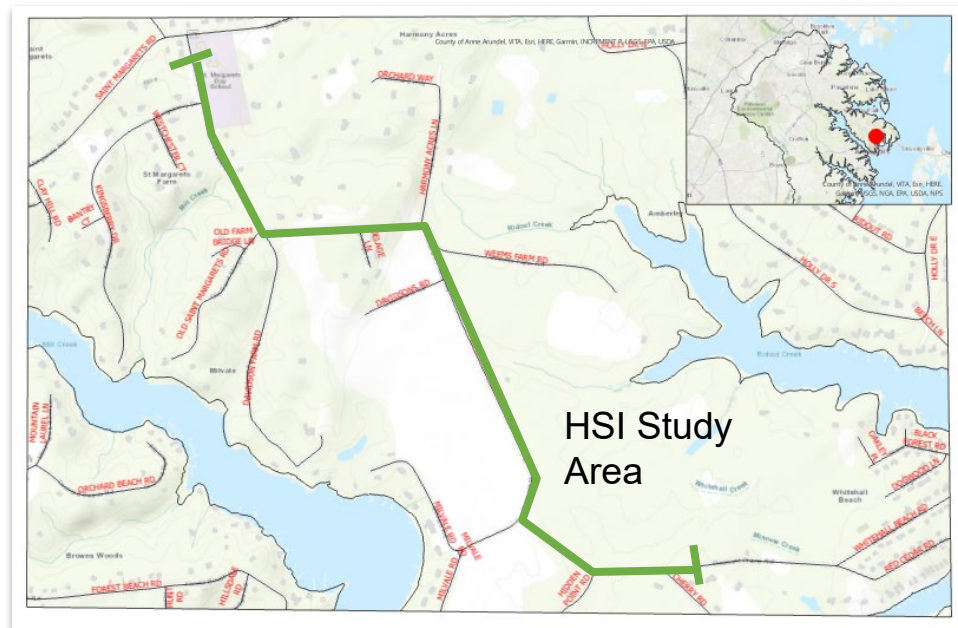
Proposed Alternative



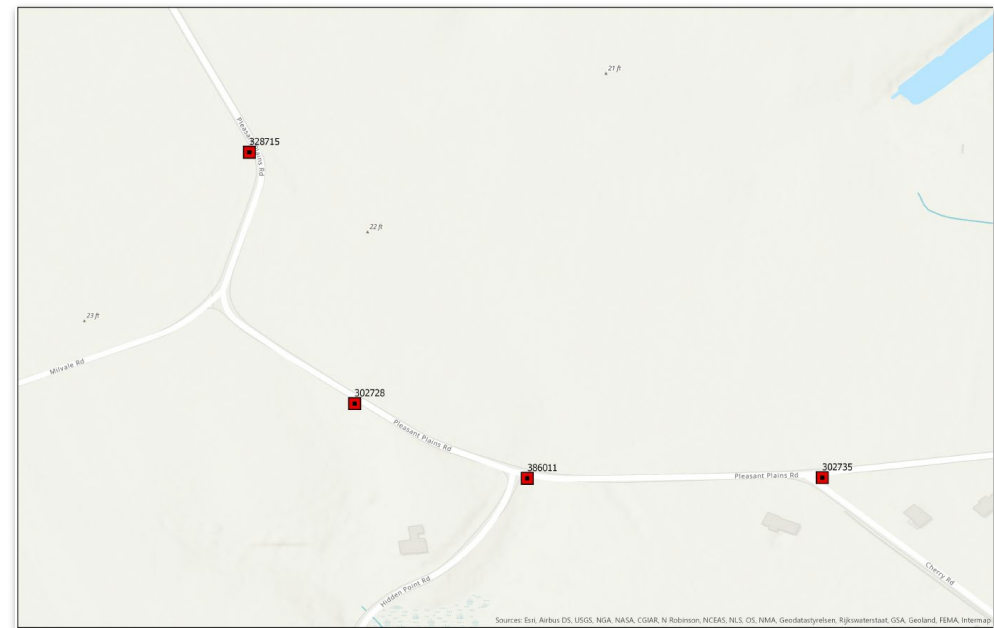
H583700: Pleasant Plains Road Safety Improvements

This project will address the running off the road crashes along Pleasant Plains Road. This project will address the existing crash pattern on Pleasant Plains Road by relocating existing utility poles outside the clear zone. This project will also address a drainage issue near the Cherry Road intersection.

FY24 Request = \$2.64M; \$645,000 increase provides funding needed for utility relocations



Location Map



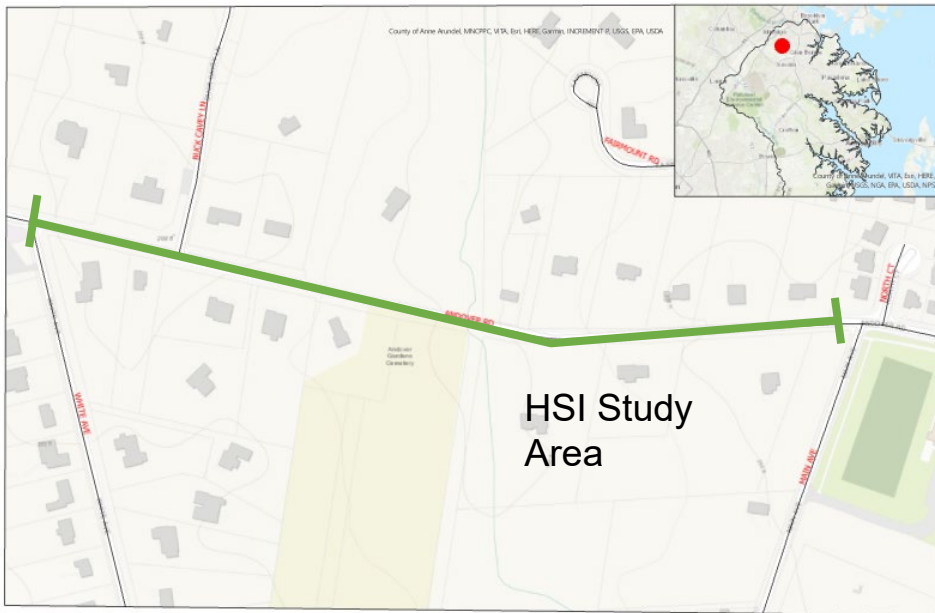
Locations Of Poles To Relocate



H583900: Andover Road Sight Distance Improvements

This project will improve the sight distances for all residential driveways from White Avenue to Main Avenue.

FY24 Request = \$505,000; Provides funding for utility relocations



Location Map

Andover Rd
Sight Distance Measurements

Location	MB	Sight Distance From Driveway		Left from Main Road	AASHTO		SD from Driveway	Left From Main Road
		Looking Left	Looking right		ISD	Left from Main Rd		
1	812	180	281	306	518	380	Not Adequate	Not Adequate
2	808	167	270	745	518	380	Adequate	Adequate
3	724	450	452	544	518	380	Not Adequate	Adequate
4	722	120	471	413	518	380	Not Adequate	Adequate
5	718	166	867	432	518	380	Not Adequate	Adequate
6	716	104	628	362	518	380	Not Adequate	Not Adequate
7	712	395	314	530	518	380	Adequate	Adequate
8	710	363	109	606	518	380	Not Adequate	Adequate
9	706	443	400	478	518	380	Not Adequate	Adequate
10	704	613	225	482	518	380	Adequate	Adequate
11	703	280	209	466	518	380	Not Adequate	Adequate
12	711	523	205	471	518	380	Adequate	Adequate
13	715	655	285	1141	518	380	Not Adequate	Adequate
14	725	256	645	399	518	380	Adequate	Not Adequate
15	805/809	338	596	338	518	380	Adequate	Adequate
16	813	815	1000	N/A	518	380	Adequate	Adequate

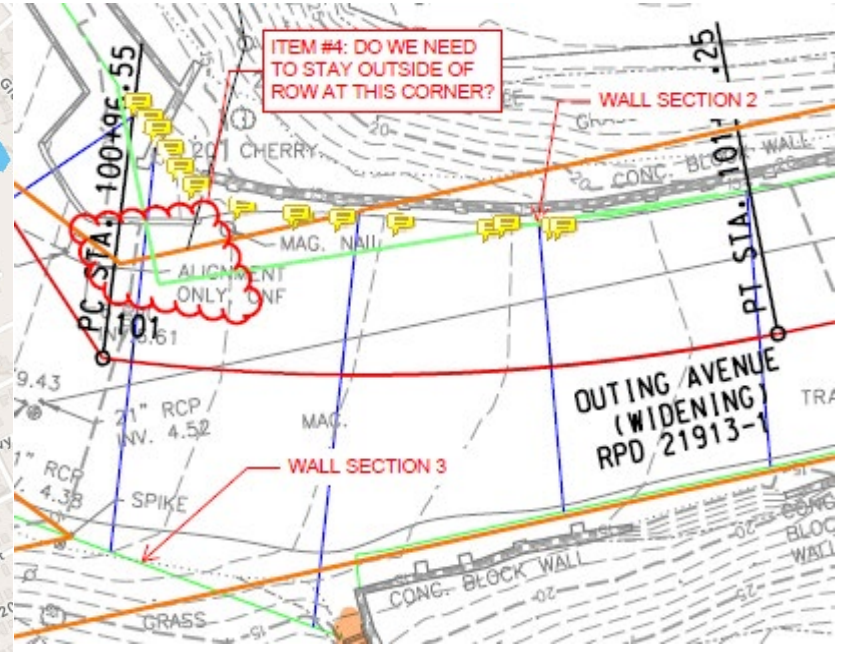
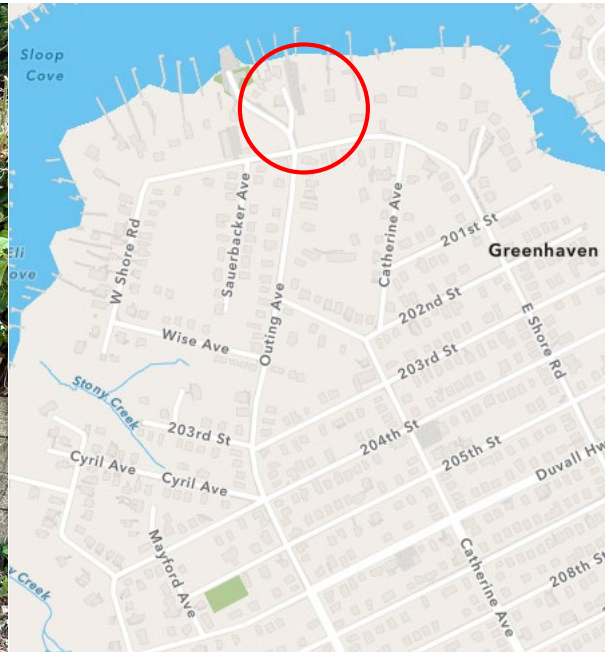
Sight Distance Measurements



H586700: Outing Ave Retaining Walls

Replacement of deteriorated timber and masonry retaining walls along Outing Ave between Tiernan Dr and the Green Haven Wharf that have surpassed the available service life and are exhibiting signs of failure.

FY24 Request = \$1,531,000; \$86,000 increase as a result of updated project estimate.



Existing legacy wall segments exist both within and without the road right-of-way



Masonry Management Program: H479000, H566600, H589900 Funding Level Summary

Replacement of existing sidewalk, curb/gutter, curb ramps, and APS	FY24 Request:	Increase:
H589900 State Road Sidewalk M&R (<i>New Request</i>)	\$75,000	\$75,000
H479000 Masonry Reconstruction	\$1,225,000	\$110,000
H566600 ADA ROW Compliance	\$1,225,000	\$110,000
Total:	\$2,540,000	\$310,000

County Maintained Asset	Qty
Sidewalk along county roads (miles)	1,047
Sidewalk along state roads (miles)	77
Path along county roads (miles)*	16
Path along state roads (miles)*	8
Curb/Gutter along county roads (est. mi.)	1,687

ADA ROW Compliance Program	Qty
Curb Ramps - compliant	5,313
Curb Ramps - non-compliant	9,506
Barrier curbs	1,641
APS-equipped signals	48
Non-APS signals	67

*within road right-of-way



Pavement Management Program: H478600, H478900, H564100, H575400 Funding Level Summary

Stasis = \$30.5 million/year invested in roadway pavements Backlog = \$154 million, current estimate	FY23 Approved (one-time):	FY24 Request (one-time):	Increase:
H478600 Road Resurfacing	\$16,363,000	\$16,400,000	\$37,000
H478900 Road Reconstruction	\$13,101,000	\$13,100,000	(-1,000)
H564100 Arundel Mills LDC	500,000	\$500,000	\$0
H575400 Alley Reconstruction - <u>Completing project two years early.</u>	558,000	\$558,000	\$0
Total:	\$30,522,000	\$30,558,000	\$36,000

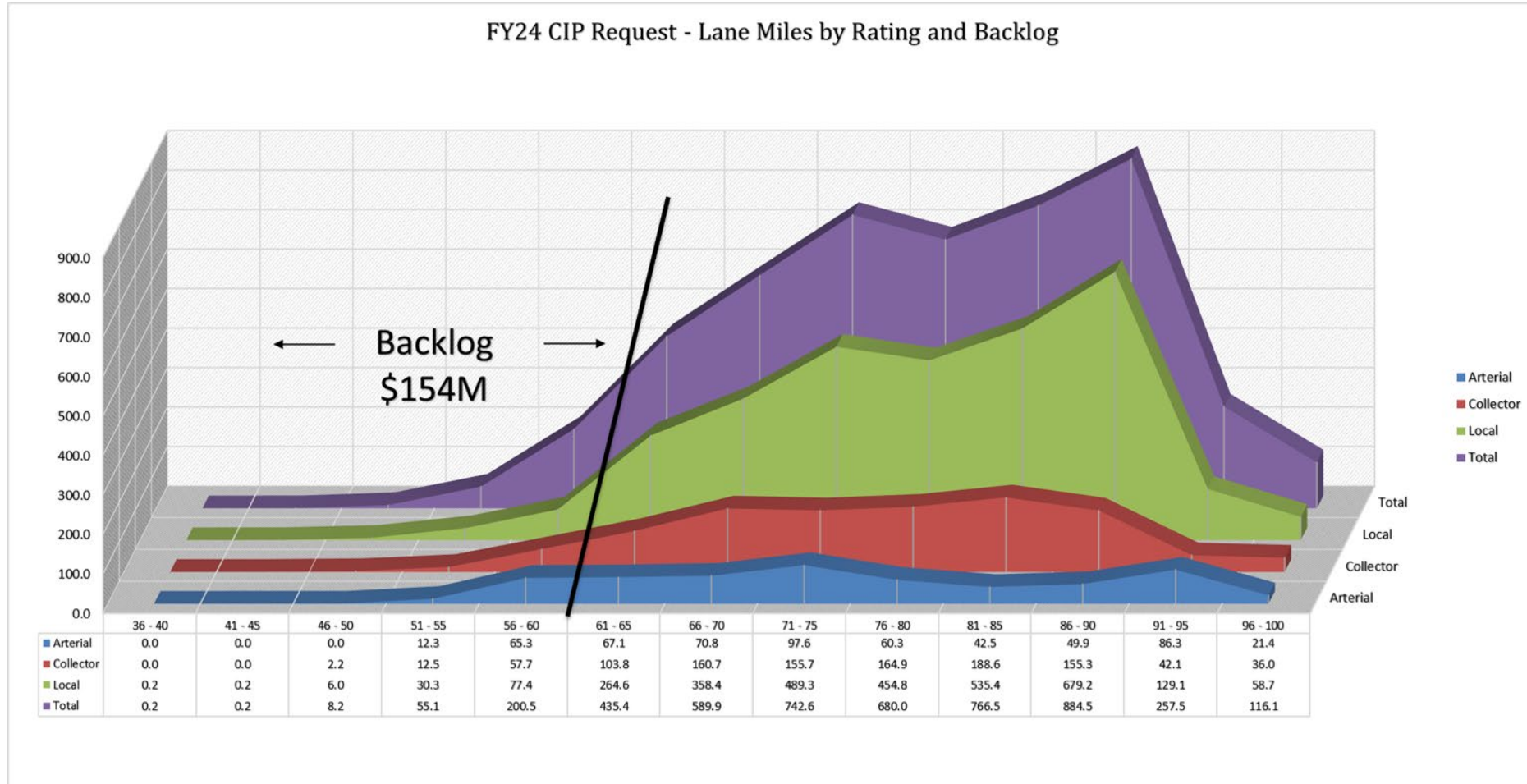
Number of County Road Segments	7,254
Asphalt Pavement, centerline miles	1,835
Asphalt Pavement, lane miles (10' wide)	4,736
Curb/Gutter along county roads (est. mi.)	1,686

Number of County Owned Alleys	99
Alley Pavement, centerline miles	15.7
Alley Pavement, lane miles (10' wide)	21.01
Average Alley width (ft)	13



Pavement Management Program: H478600, H478900, H564100, H575400

Pavement Network Rating Distribution



Traffic Control Program Funding Level Summary

Traffic Engineering	FY24 Request:	Increase:
H479100: Guardrail	\$300,000	175,000
H479200 Traffic Signal Mod	\$300,000	\$0
H479400 New Traffic Signals	\$350,000	\$0
H479500 Nghborhd Traf Con	\$150,000	\$0
H542100 New Streetlighting	\$150,000	\$0
H550700 Streetlight Conversion	\$500,000	\$0
H563600 SL Pole Replacement	\$500,000	\$0
H564200 Developer Streetlights	\$1,500,000	\$0
Total:	\$3,450,000	\$0

