



Making a difference, together

Bureau of Engineering Bridge Projects

FY 24 Proposed Capital Budget
May 8, 2023



DPWandYOU.com | *Making a difference, together*



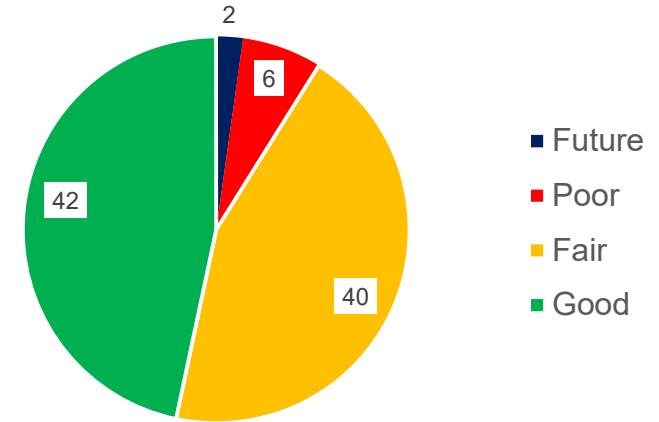
Bridge Program

- **County Bridges:** Inventory currently = 88; 2 under construction by development, to be added to the County's bridge inventory once accepted

- **Federal Bridge Program**

- **Minimum Requirement:** biennial inspections of various bridge elements (*decking; foundation; structure*) that result in a rating
- **Bridges rated poor or fair are eligible for 80% construction funding**
- **Currently six (6) bridges have a "Poor Rating"**
 - Hospital Drive over Marley Creek, AA2014, Performance, H478733
 - Harwood Road over Stocketts Run, AA1009, Construction, H535100
 - Hidden Brook Drive over Marley Creek, AA3014, Construction, H478733
 - O'Connor Road over Deep Run, AA5009, Design, H561000
 - McKendree Road over Lyons Creek, AA5019, Design, H566800
(*approved for 100% federal funding*)
 - Town Center Boulevard over tributary to Severn Run, AA4020, FY24 Request, H001824

Bridge Condition



FY24 New Projects

- H590000 – Culvert Invert Paving
- H590100 – Town Center Boulevard over tributary of Severn Run
- H590200 – Patuxent Road over Little Patuxent River



H590000 – Culvert Invert Paving (pg. 227)

- This project will provide culvert invert paving for five county owned metal pipe culverts identified through scheduled inspections.
- This project is needed to address the deteriorating conditions of the culvert inverts and increase their service life.
- Culverts included are:
 - AA5017 - 8th Avenue NW over Sawmill Creek
 - AA3009 - Oakwood Road over Marley Creek
 - AA4031 - Duvall Hwy over tributary to Stony Creek
 - AA5018 - Crofton Parkway over tributary to Little Patuxent River
 - AA2013 - Hospital Drive over Marley Creek
- FY24 funding - \$135,000 for Design



H590000 – Culvert Invert Paving



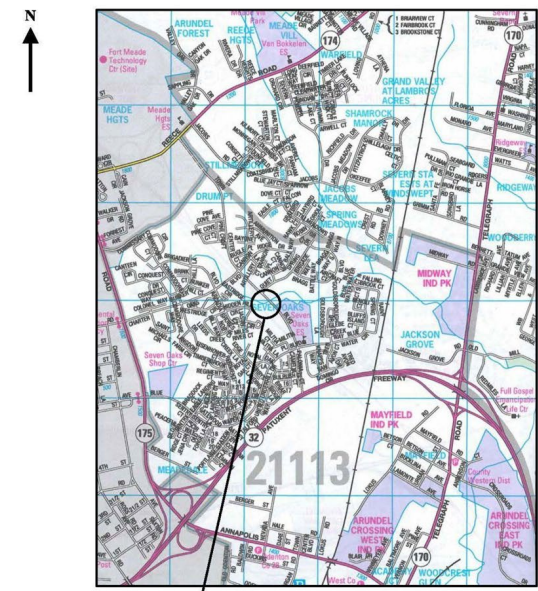
Photo 10 - Area of 100% Section Loss in the North Side of the Invert at the Upstream End of Cell 1 (Approximately 5ft into the Cell Shown)



H590100 – Town Center Boulevard over tributary of Severn Run (pg. 228)

- This project will replace/rehabilitate the existing two-cell culvert located on Town Center Blvd over Tributary to Severn Run to address the deteriorating condition of the structure.
- FY24 funding - \$206,000 for Design

BRIDGE No. AA4020001 – TOWN CENTER BOULEVARD over TRIBUTARY TO SEVERN RUN



BRIDGE No. AA4020001 TOWN
CENTER BOULEVARD over
TRIBUTARY TO SEVERN RUN

ADC Street Grid Location: 5171-G4
Old ADC Street Grid Location: 6-G-12

LOCATION MAP

Map Copyright ADC the Map People Used with Permission
Permitted Use Number. 20113600
Expiration Date: 10/10/2023
Bridge No. AA4020001



H590100 – Town Center Boulevard over tributary of Severn Run



BRIDGE NO. AA4020001
TOWN CENTER BLVD.
OVER
TRIBUTARY TO SEVERN RUN



Photo 12 - Area of Section Loss in Pipe 1 on West Side of South End



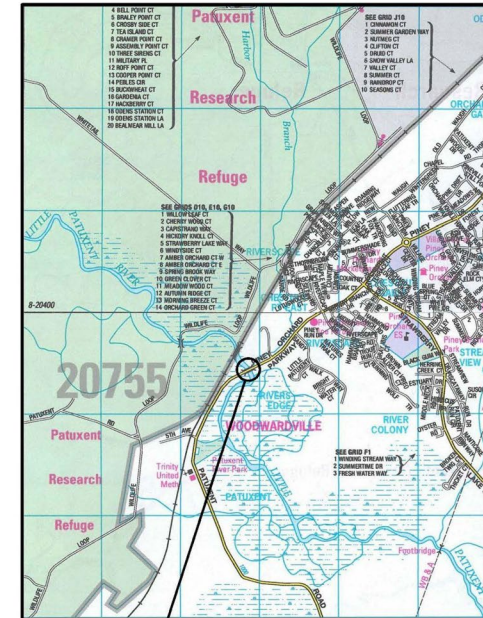
Photo 16 - Area of Section Loss in Pipe 2 in West side of South End



H590200 – Patuxent Road over Little Patuxent River (pg. 229)

- This project will rehabilitate the existing bridge located on Patuxent Rd over Little Patuxent River to replace the deteriorating bridge deck and perform repairs on the bridge superstructure and substructure.
- FY24 funding - \$221,000 for Design

BRIDGE No. AA4004001 – PATUXENT ROAD over LITTLE PATUXENT RIVER



Bridge No. AA4004001
PATUXENT ROAD over
LITTLE PATUXENT RIVER

ADC Street Grid Location: 5291-C1

LOCATION MAP

Map Copyright © ADC The Map People
Used with Permission. Permit No: 20113600
Expiration: 10/10/2022



H590200 – Patuxent Road over Little Patuxent River



BRIDGE NO. AA4004001
PATUXENT ROAD
OVER
LITTLE PATUXENT RIVER



Photo 18 - Spall with Exposed Corroded Reinforcement at West End of North Abutment



Photo 9 - Spalling with Exposed Corroded Reinforcement in West Safety Curb at Mid-Span of Span 2



Additional Bridge Project Changes

H478700 - Major Bridge Rehab - Multi-Year Added FY29 funding

H535200 - Furnace Avenue over Deep Run - Increase per current design and right of way cost estimates - \$27,000

H561000 – O’Connor Road over Deep Run - Increase per current design and right of way cost estimates - \$124,000

H566800 - McKendree Road over Lyons Creek - Increase per current construction cost estimate - \$195,000

H569500 - Governors Bridge Road over Patuxent River – Funding shifted to anticipate FY27 construction per PG County

H580800 - Hanover Road over Deep Run - Increase per current design estimate - \$64,000



Additional Bridge Project Changes

H580900 - Conway Road over Little Patuxent River - Increase per current design estimate - \$80,000

H581000 - Jacobs Road over Severn Run - Increase per current design estimate - \$69,000

H583400 - Bridge Program Management - Multi-Year Added FY29 funding

