Huntingdon County Construction Projects

Michael F. Henry, P.E.
Assistant Construction Engineer
Awarded Contracts
• **Scope:** Box Culvert Replacement
  - Bid with Muddy Run #2 and Muddy Run #3 Culverts
• **Traffic Control:** Detour (Car - 2.1 miles, Truck - 3.1 miles)
• **Construction Timeframe:** June – September 2020
• **Contractor:** HRI, Inc.
• **Current Contract:** $3,053,289
Huntingdon Boro Muddy Run #2 Culvert

• **Scope:** Box Culvert Replacement
  - Bid with Muddy Run #3 & Route 26 over Muddy Run Culverts

• **Traffic Control:** Detour (NB - 0.2 miles, SB - 0.4 miles)

• **Construction Timeframe:** June – September 2021

• **Contractor:** HRI, Inc.

• **Current Contract:** $3,053,289
**Huntingdon Boro Muddy Run #3 Culvert**

- **Scope:** Box Culvert Replacement
  - Bid with Muddy Run #2 & Route 26 over Muddy Run Culverts
- **Traffic Control:** Detour (NB - 0.6 miles, SB - 0.6 miles)
- **Construction Timeframe:** June – August 2020
- **Contractor:** HRI, Inc.
- **Current Contract:** $3,053,289
Muddy Run Culverts

DETOUR LENGTH: NORTHBOUND 0.20 MI & SOUTHBOUND 0.37 MI

DETOUR LENGTH: NORTHBOUND 0.57 MI & SOUTHBOUND 0.64 MI
• **Scope:** Bridge Rehabilitation
  ➢ Bid with 10 local bridges in Bedford and Fulton Counties
• **Traffic Control:** Detour (3.2 miles) (9 weeks maximum)
• **Construction Timeframe:** June – August 2020
• **Contractor:** Cottle’s Asphalt Maintenance, Inc.
• **Current Contract:** $1,792,159
T-358 Covered Bridge Road Bridge

Covered Bridge Road over Shade Creek
Cromwell Township
Great Trough Creek Bridge

• **Scope:** Bridge Replacement
• **Traffic Control:** Phased construction & Detour (0.35 & 0.30 Miles)
• **Construction Timeframe:** April – October 2020
• **Contractor:** Wen-Brooke Contracting, Inc.
• **Current Contract:** $1,188,516
Great Trough Creek Bridge

Route 913 (Main Street) over Great Trough Creek
Wood Township

Robertsdale

MCLAIN
Contracts to be bid
• **Scope:** High Friction Surface Treatment  
  ➢ 1 of 9 locations for the 2020 HFST project across all six counties (Route 305)

• **Traffic Control:** Daylight Flagging

• **Construction Estimate:** $1.0 - $5.0 Million

• **Anticipated Bid Opening:** 2nd Quarter 2020
Route 305 (Greenwood Road) High Friction Surface Treatment
Jackson Township
Route 22 – Old Route 22 to Route 26

- **Scope:** Resurfacing, guide rail and drainage upgrades (3.4 miles)
- **Traffic Control:** Daylight flagging
- **Construction Estimate:** $1.0 - $5.0 Million
- **Anticipated Bid Opening:** 2nd Quarter 2020
Route 22 – Old Route 22 to Route 26

Route 22 (William Penn Highway) – Old Route 22 to Route 26 (Raystown Road)
Porter & Smithfield Township
• **Scope:** Resurfacing, guide rail and drainage upgrades (0.85 miles)
• **Traffic Control:** Daylight flagging
• **Construction Estimate:** Less than $1.0 Million
• **Anticipated Bid Opening:** 2nd Quarter 2020
Route 2025 – Route 747 to Route 522

Route 2025 (Shirley Street) – Route 747 (Division Street) to Route 522 (Croghan Pike)

Mount Union Borough & Shirley Township
Route 35 – Richvale Road to Juniata Co. Line

- **Scope:** Resurfacing, guide rail and drainage upgrades (4.5 miles)
- **Traffic Control:** Daylight flagging
- **Construction Estimate:** $1.0 - $5.0 Million
- **Anticipated Bid Opening:** 2nd Quarter 2020
Route 35 – Richvale Road to Juniata Co. Line

Route 35 (Shade Valley Road) – Route 2008 (Richvale Road) to Juniata Co. Line
Tell Township
Thank You

Questions?
Huntingdon County Maintenance Activities

Nichole McCombie
Acting County Manager
Huntingdon County Staff

Acting County Maintenance Manager
Nichole McCombie

Assistant County Manager
Albert Huey

Assistant County Manager
Kevin Eckenrode

Equipment Manager
Dave Clark

Roadway Programs Coordinator
Kelli Scalia
Who to Contact in Your Area

Kevin Eckenrode
506-1707
keckenrode@pa.gov

Al Huey
506-1706
ahuey@pa.gov
2019 Winter Agreements & 5 Year Dept. History

2 Winter Municipal Service Agreement Routes between
Mount Union Borough & Walker Township

Totaling 22.0 Miles

Avg. Rate - $ 1,010 / mile

<table>
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<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
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<tr>
<td>SALT (tons)</td>
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<td>BRINE (gals)</td>
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<td>COST (000's)</td>
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2020 Department Force Work Summary

• **Paving**
  • 1.9 miles on Route 2003
  • Estimated Cost - $ 380,000

• **Seal Coating**
  • 63.5 miles on 17 routes
  • Estimated Cost - $ 950,000

• **Bridge Construction**
  • 1 Structure – Box Culvert on Route 1013
    • Estimated Cost - $ 200,000
  • 1 Deck Overlay – Route 4015
    • Estimated Cost - $ 10,000
2020 Department Force Paving

Route 2003
Fort Littleton Road
Fulton County Line to PA 475
1.9 miles
2020 Department Force Seal Coating

Route 35
Shade Valley Road
12.84 miles
2020 Department Force Seal Coating

Route 103
Beacon Lodge Road
4.15 miles
2020 Department Force Seal Coating

Route 1019
East Branch Road
5.62 miles
2020 Department Force Seal Coating

Route 2003
Fort Littleton Road
1.88 miles
2020 Department Force Seal Coating

Route 3003
Power Plant Road
3.7 miles

Route 3007
Weaver Falls Road
0.35 miles
2020 Department Force Seal Coating

Route 3051
Hawns Bridge Road
1.97 miles

Route 3049
Polecat Hollow Road
1.24 miles

Route 3029
Callohill Street/Smith Valley Road
11.45 miles

Route 3020
Zinobile Road
1.26 miles
2020 Department Force Bridge Project

Route 1013 over Henry’s Run

- Segment 120
- Barree Township
- Box Culvert
  - May-June 2020
- $200,000
- 8.0 mile Detour
2020 Department Force Bridge Project

- 8.0 miles

Route 1023 Bridge over Henry’s Run Detour Map
2020 Department Force Bridge Project

- Segment 40
- Franklin Township
- Concrete Deck Overlay
  - August 2020
  - $10,000
  - Half-Width Construction

Route 4015
over Warrior’s Mark Run
Agility Agreements

No active work plans are in place at this time

Possible Activities

- Sign Replacements
- Crack Sealing
- Line Painting
- Shoulder Cutting
- Pipe Replacement & Flushing
Additional County Activities

- Patching
- Guiderail Repairs and Upgrades
- Sign Replacements
- Crack Sealing
- Shoulder Cutting
- Bridge Maintenance
- Drainage Improvements
- Mowing
QUESTIONS?

THANK YOU FOR YOUR ATTENTION!
Huntingdon County Design Overview

Vince Greenland, P.E.
Assistant District Executive - Design
• State DOTs are no longer just held accountable for the transportation system; they are also held accountable for how the system supports and improves quality of life for communities.
PennDOT Connects

- Identify needs of communities and related issues early in project planning
- Consider community transportation needs
  - Bicycle and pedestrian accommodations
  - Transit access
  - Stormwater management
  - Freight
  - Utilities
  - Green infrastructure
• **For bike lanes on state owned roadways**
  Municipalities interested in creating Bike facilities shall indicate so during the PennDOT Connects process. The PennDOT District Bicycle/Pedestrian (BP) Coordinator during the project scoping process can advise in the conceptual stage of the project. As the Bike Lane plan develops, at some point it will be necessary for the Municipality to accept maintenance responsibility.
• Progress since Fall of 2016
  – (2017, 2019, and 2021 TIP’s)
    • 545 Projects
    • 192 Municipalities

• Additional Planned 2021 TIP (Summer 2020)
  • 21 Candidate Projects
  • 22 Municipalities

**NOTE:** If project spans more than one municipality, multiple interview forms are generated
### Implementation Progress since Fall 2016

#### Projects

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<th>Considered</th>
<th>Bid</th>
<th>Underway</th>
<th>Unfunded</th>
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<tr>
<td>79*</td>
<td>26</td>
<td>28</td>
<td>25</td>
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*Outreach for 2 projects is planned for this summer

#### Municipalities

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<tr>
<th>Contacted</th>
<th>Met With</th>
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<tbody>
<tr>
<td>36</td>
<td>32</td>
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ALTERNATE SOURCES
Overview

- Award must be matched with local funding by not less than 30%
- Improve freight and passenger mobility
- Maximize the benefits of capital investment
- Promote safety
- Spur economic development through transportation improvements
- Multimodal Transportation Fund application window for FY 2020-21 currently closed
- Award announcements for FY 2020-21 projects have not been announced yet
Transportation Alternatives Set-Aside

Overview

• Award must be matched with local funding for pre-construction costs
• Introduced as part of Moving Ahead for Progress in the 21st Century (MAP-21) in July 2012
• Combines Transportation Enhancements, Safe Routes to School, Scenic Byways, and Recreational Trails Programs
• Project and sponsor eligibility criteria are different than Transportation Enhancements
• Transportation Alternatives Set-Aside application window currently closed
• Next TA Set-Aside funding round anticipated in summer 2020
Eligible Projects

- Bicycle and pedestrian facilities
- Bicycle and pedestrian education (grades k-8 only)
- Conversion of abandoned railway corridors to trails
- Construction of turnouts, overlooks, and viewing areas
- Outdoor advertising management
- Historic preservation and rehabilitation of historic transportation facilities
- Vegetation management
- Archeological activities
- Storm water management
- Wildlife mortality mitigation
- Safe Route to School – Infrastructure Projects
Community Conservation Partnerships Program (C2P2)

Overview

• Administered by DCNR: Bureau of Recreation & Conservation
• Award must be matched with local funding for 50%

Types of Funded Projects

• Planning, Acquisition, and development of public parks
• Recreation areas
• Motorized and non-motorized trails
• River conservation and access
• Conservation of open space

Grants also support regional and statewide partnerships that build capacity to better develop and manage resources
Recessed pavement markings are markings that are mechanically depressed/cut into a pavement surface to a point that snow plow blades cannot erase them from the pavement surface.

- This installation method was developed to extend the life of the durable and more expensive pavement markings
- Markings are kept safe, allow for greater retro-reflectivity, and limit replacement cycles
Full Depth Reclamation (FDR)

- Thin Asphalt Layer
- Deterioration beyond point of “patching” to Repair
Full Depth Reclamation (FDR)

3 Step Process
- Grind existing pavement structure
- Stabilize
  - Use additive (typically cement)
  - Grade and compact
- Resurface

Equipment Required
- Reclaimer
- Grader
- Sheepsfoot roller
- Smooth vibratory drum roller
- Paver
Full Depth Reclamation (FDR)
Full Depth Reclamation (FDR)

Completed FDR

Binder Course
Full Depth Reclamation (FDR)

Benefits

• End product is essentially a new road
• Considerable service life
• Eliminates the need for base repair and overlaying, which typically results in reflective cracking of the pavement
• Exceptional ride quality
District 9 Recent FDR Locations:

- Huntingdon Co., Blacklog Valley Rd, Shirley Twp
- Bedford Co., Riddlemoser Rd, Juniata Twp
- Cambria Co., Tower Rd/Ott Rd, East Carroll Twp, West Carroll Twp, Elder Twp and Susquehanna Twp
- Somerset Co., Wilkow Rd, Stonycreek Twp
Current Design Projects
**Scope:** Resurfacing on Croghan Pike (US 522) in Dublin Township, Fulton Co. and on Great Cove Rd (US 522) in Dublin Township, Huntingdon Co. The project extends from the PA Turnpike bridge in Fulton Co. to Shade Valley Rd (PA 35) in Huntingdon Co.

**Construction Estimate:** $1.0 to $5.0 Million

**Anticipated Bid Opening:** 1st Quarter 2021
**Scope:** Resurfacing and Upgrade to the 1000 Steps Trail Parking Area in Henderson & Brady Townships and Mill Creek Borough

**Construction Estimate:** $10.0 - $15.0 Million

**Anticipated Bid Opening:** 1st Quarter 2021
US 22 - Mifflin Co. Line to Million Dollar Bridge

US 22 William Penn Highway – Penn St to Mifflin Co Line
Henderson & Brady Twps, Mill Creek Borough

1,000 Steps Parking Lot
PennDOT Connects: Brady Township is willing to enter into maintenance agreement, therefore Design and Construction of access improvements from the Parking Area to Thousand Steps will be included in the project.
Trail access from Parking Lot
Scope: Stabilization of roadway embankment on Standing Stone Rd just north of Jackson Corner

Construction Estimate: $1 to $5 Million

Estimated Bid Opening: 4th Quarter 2020
Detour Routes

NOTES:
1. HUNTINGDON TO McALEVYS FORT VIA PA ROUTE 26 = 17.1 MILES
2. HUNTINGDON TO McALEVYS FORT VIA DETOUR ROUTE = 24.5 MILES
Shade Creek Bridges

**Scope:** Resurfacing and two Bridge replacements over Trib to Shade Creek & Shade Creek, guiderail, signage & delineation upgrades on Neelyton Rd (PA 641) in Dublin Twp.

**Construction Estimate:** $1.0 - $5.0 million

**Anticipated Bid Opening:** 4th Quarter 2021
Shade Creek Bridges

Neelyton Rd over Shade Creek
Dublin Township

Neelyton Rd over Tributary of Shade Creek
Dublin Township
**Scope:** Bridge improvement on Hill Valley Rd over Hill Valley Creek approximately ¼ mile south of intersection of Christoff Avenue (T-505) in Shirley Twp.

**Construction Estimate:** $1.0 - $5.0 million

**Anticipated Bid Opening:** 4th Quarter 2021
Hill Valley Rd over Hill Valley Creek
Shirley Township
Thank You

Questions?