Blair County Construction Projects

Michael F. Henry, P.E.
Assistant Construction Engineer
Awarded Contracts
T-310 Friesville Bridge

- **Scope**: Bridge Replacement
- **Traffic Control**: Detour (1.9 miles)
- **Construction Timeframe**: June – October 2020
- **Contractor**: Wen-Brooke Contracting, Inc.
- **Current Contract**: $739,999
T-310 Friesville Bridge

- T-310 (Evergreen Road) over South Poplar Run
- Detour (1.9 miles)
- Greenfield Township
Contracts to be bid
2020 HFST District Wide Contract

- **Scope:** High Friction Surface Treatment
  - 1 of 9 locations for the 2020 HFST project across all six counties (Route 36)
- **Traffic Control:** Daylight Flagging
- **Construction Estimate:** $1.0 - $5.0 Million
- **Anticipated Bid Opening:** 2nd Quarter 2020
2020 HFST District Wide Contract

Route 36 (Col Drake Highway)
High Friction Surface Treatment
Logan Township
Route 1002 – Route 764 to Route 22

- **Scope:** Resurfacing, guide rail, drainage & signal upgrades (2.5 miles)
- **Traffic Control:** Daylight & nighttime flagging & detour (3.0 miles)
- **Construction Estimate:** $1.0 - $5.0 Million
- **Anticipated Bid Opening:** 2nd Quarter 2020
Route 1002 – Route 764 to Route 22

Route 1002 (Municipal Drive & North Juniata Street) – Route 764 (6th Avenue) to Route 22 (William Penn Highway)

Allegheny Township and Hollidaysburg Borough
Route 1001 – Route 4004 to Route 764

• **Scope:** Resurfacing, guide rail, drainage & signal upgrades (9.5 miles)
• **Traffic Control:** Daylight and nighttime flagging
• **Construction Estimate:** $5.0 - $10.0 Million
• **Anticipated Bid Opening:** 2nd Quarter 2020
Route 1001 (Pleasant Valley Boulevard) – Route 4004 (Goods Lane) to Route 764
Logan Township and City of Altoona
**Scope:** Resurfacing, guide rail and drainage upgrades (1.3 miles)
- To be bid with Route 2010 – Route 164 to Route 36, Route 2014 – Bedford St to Reservoir Rd and Route 4025 – Route 4023 to Route 4027

**Traffic Control:** Daylight flagging

**Construction Estimate:** Less than $1.0 Million

**Anticipated Bid Opening:** 2nd Quarter 2020
Route 2002 – Main Street to Route 36

Route 2002 (Cabbage Creek Road) – Main Street to Route 36 (Woodbury Pike)
Roaring Spring Borough and Taylor Township
• **Scope:** Resurfacing, guide rail and drainage upgrades (1.0 mile)
  ➢ To be bid with Route 2002 – Main St to Route 36, Route 2014 – Bedford St to Reservoir Rd and Route 4025 – Route 4023 to Route 4027

• **Traffic Control:** Daylight flagging

• **Construction Estimate:** Less than $1.0 Million

• **Anticipated Bid Opening:** 2nd Quarter 2020
Route 2010 – Route 164 to Route 36

Route 2010 (Freedom Street) – Route 164 (Dunnings Highway) to Route 36 (Woodbury Pike)

Freedom Township
**Scope:** Resurfacing, guide rail and drainage upgrades (2.2 miles)
- To be bid with Route 2002 – Main St to Route 36, Route 2010 – Route 164 to Route 36 and Route 4025 – Route 4023 to Route 4027

**Traffic Control:** Daylight flagging

**Construction Estimate:** Less than $1.0 Million

**Anticipated Bid Opening:** 2nd Quarter 2020
Route 2014 – Bedford Street to Reservoir Road

Route 2014 (Plank Road) – Bedford Street to Route 2007 (Reservoir Road)
Hollidaysburg Borough and Frankstown Township
**Scope:** Resurfacing, guide rail and drainage upgrades (2.7 miles)

- To be bid with Route 2002 – Main St to Route 36, Route 2010 – Route 164 to Route 36 and Route 2014 – Bedford St to Reservoir Rd

**Traffic Control:** Daylight flagging

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

**Anticipated Bid Opening:** 2nd Quarter 2020
Route 4025 (Grazierville Road) – Route 4023 (Tipton Road) to Route 4027 (Old US 220)
Antis and Snyder Township
• **Scope:** Bridge rehabilitation, resurfacing, guide rail, drainage and signal upgrades (2.1 miles)
  ➢ To be bid with Route 4006 – Route 4004 to Route 764

• **Traffic Control:** Daylight & nighttime flagging & detour (1.2 miles)

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

• **Anticipated Bid Opening:** 3rd Quarter 2020
Route 4004 – Route 764 to Route 36

Route 4004 (California Ave., 58th St., Goods Lane, Orchard Ave.) – Route 764 (6th Avenue) to Route 36 (Logan Blvd)

Allegheny and Logan Township and City of Altoona
• **Scope:** Resurfacing, guide rail, drainage and signal upgrades (0.4 miles)
  ➢ To be bid with Route 4004 – Route 764 to Route 36
• **Traffic Control:** Daylight and nighttime flagging
• **Construction Estimate:** $1.0 - $5.0 Million
• **Anticipated Bid Opening:** 3rd Quarter 2020
Route 4006 – Route 4004 to Route 764 (6th Avenue)

City of Altoona
US22/North Juniata Street Intersection

- **Scope:** Intersection realignment, bridge rehabilitation, ADA ramps, sidewalks and signal upgrades, (0.5 miles)
- **Traffic Control:** Phased and Detour (2.7 miles)
- **Construction Estimate:** $1.0 to $5.0 Million
- **Anticipated Bid Opening:** 3rd Quarter 2020
Thank You

Questions?
Blair County Maintenance Activities

Jacob Decker
County Manager
Who to Contact in Your Area

Sean Homan
696-7289
sehoman@pa.gov

Todd Homan
696-7274
thoman@pa.gov
2019 Winter Agreements & 5 Year Dept. History

10 Winter Municipal Service Agreement Routes Between Altoona, Bellwood & Roaring Spring Boroughs, and Blair, Catharine, Huston, N. Woodbury, Snyder, Tyrone, & Woodbury Townships

Totaling 62.3 Miles

Avg. Rate - $ 987 / mile

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<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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<td>COST (000’s)</td>
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<td>$ 2,491</td>
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2020 Department Force Work Summary

- **Seal Coating**
  - 29.8 miles on 9 routes
  - Estimated Costs - $447,000
2020 Department Force Seal Coating

Route 1019
Seven Stars Road
0.43 miles

Route 350
Seven Stars Road/Sandy Ridge Mountain Road
1.6 miles
2020 Department Force Seal Coating

Route 1015
Quarry Road/ Golf Course Road
6.88 miles

Route 1017
Silver Barn Road
2.91 miles

Route 1008
Hileman Road/ Skelp Mountain Road
7.46 miles
2020 Department Force Seal Coating

Route 1010
Union Furnace Road
0.23 miles

Route 1013
Kettle Road/ Kettle Street/ Pemberton Road
6.28 miles
2020 Department Force Seal Coating

Route 3009
Valley Forge Road
3.38 miles
Agility Agreements

7 Agreements with Blair County, Altoona and Antis, Catharine, Huston, N. Woodbury, & Taylor Townships

Mowing, Vacuuming, and Sweeping
For Line Painting, Pipe Flushing, Spray Patching, Crack Sealing and Salt Brine

Other Possible Activities
• Sign Replacements
• Shoulder Cutting
• Pipe Replacement
• Paving
Additional County Activities

- Patching
- Sign Replacements
- Crack Sealing
- Shoulder Cutting
- Bridge Maintenance
- Pipe Replacement & Flushing
- Drainage Improvements
- Mowing
QUESTIONS?

THANK YOU
FOR YOUR ATTENTION!
Blair 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.
PennDOT Connects

- 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
PennDOT Connects

• Progress since Fall of 2016
  – (2017, 2019, and 2021 TIP’s)
    • 545 Projects
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**NOTE:** If project spans more than one municipality, multiple interview forms are generated
Blair County PennDOT Connects Implementation Summary

Implementation Progress since Fall 2016

Projects

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<thead>
<tr>
<th>Considered</th>
<th>Bid</th>
<th>Underway</th>
<th>Unfunded</th>
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<td>22</td>
<td>53</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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</thead>
<tbody>
<tr>
<td>22</td>
<td>22</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
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
Transportation Alternatives Set-Aside

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
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

FDR Candidate Road
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: Study of the 10th and 12th Avenue corridors through downtown Altoona. The study will consider potential alterations of traffic flow to attract commerce to the downtown.
10th and 12th Avenues Study Area

Study area
Purpose of Study

- To provide adequate vehicular access and mobility to revitalize continued growth and economic health to Downtown Altoona
- To promote and create a walkable and safe downtown Altoona area
- To provide a truly multi-modal roadway system in Downtown Altoona that considers:
  - Cars / Trucks
  - Transit
  - Pedestrians
  - Bicyclists
6th & 7th Ave Intersection Improvements

- Safety Improvement
- On PA 764 (6th Avenue) from 31st Street to the intersection with 7th Street and the intersection of 7th Street and Chestnut Avenue in City of Altoona
- **Construction Estimate:** Less than $1 Million
- **Anticipated Bid Opening:** 2024
Scope of Work

• Installation of a 75’ northbound left turn lane on 6th Avenue at 7th St and traffic signal replacement

• Timing optimization of signals:
   6th Avenue at 8th St and 7th St
   7th Avenue at 7th St and 8th St
   Chestnut Avenue at 7th St and 4th St

• Lane reassignment and overhead signage changes across the 7th St Bridge and at Chestnut Avenue
6th & 7th Ave Intersection Improvements
6th & 7th Ave Intersection Improvements

LEGEND
- PROPOSED IMPROVEMENTS
- PROPOSED WIDENING
- PROPOSED SIDEWALK

pennsylvania
DEPARTMENT OF TRANSPORTATION
6th & 7th Ave Intersection Improvements

Overhead signs will be replaced to balance lane utilization
6th & 7th Ave Intersection Improvements

Overhead signs will be replaced
Short term Detour (one night)
Vehicles and Pedestrians

Detour Route
Evaluate safety and congestion/mobility improvements:

- Limits: PA 36 from I-99 to Closson Road
- Goal: Identify fundable, prioritized list of projects for consideration on future TIPs
- Study is underway
- Cost of Study: $200,000

Issues Identified from PennDOT Connects Process:

- Congestion - Summer Lake Raystown traffic
- Speeding
- Corridor is heavily used by freight/economic activity/ manufacturing generators and farming equipment
PA 36 Corridor Study
Freedom & Taylor Twps and Roaring Spring Borough
• **Scope:** Highway Safety Improvement Program
• **Construction Estimate:** $1.0 - $3.0 Million
• **Anticipated Bid Opening:** 4th Quarter 2023
PA 36/PA 164 Intersection
Taylor Township & Roaring Spring Borough
Scope: Bridge improvement on Union Avenue (PA 36) over Mill Run at intersection with 31st St. in City of Altoona

Construction Estimate: $1.0 to $5.0 Million

Anticipated Bid Opening: 4th Quarter 2023
PA 36 Mill Run Bridge

PA 36 Logan Blvd over Mill Run
City of Altoona
Thank You!