### Locally Administered - City of Harrisonburg
#### Interstate 81 - Exit 245

**SMART SCALE Applicant:**
City of Harrisonburg

**SMART SCALE Funding:**
$3,923,707

**Estimated Cost:**
$3,923,707

**Estimated Ad Date:**
Early 2019

**Project Manager:**
John-Allen Ennis, P.E., 540-332-7891

This project consists of the relocation of the Interstate 81, exit 245 northbound off-ramp to align with the existing signalized intersection between Port Republic Road (Route 253) and Forest Hills Road. The project will enhance access to James Madison University and improve traffic operations along Route 253 between the Forest Hills Road signal and the I-81 northbound on-ramp signal.

### Interstate 81 Exit 247 - Interchange Improvements
(No Bridge Replacements)

**SMART SCALE Applicant:**
City of Harrisonburg

**SMART SCALE Funding:**
$6,708,150

**Estimated Cost:**
$6,708,146

**Estimated Ad Date:**
Late 2021

**Project Manager:**
John-Allen Ennis, P.E., 540-332-7891

This project provides modifications to the northbound acceleration and deceleration ramps on Interstate 81 at exit 247. The project benefits include improved traffic flow, with goals of reduced congestion and crash reduction. Work includes relocation of the northbound deceleration ramp and the addition of a lane to the northbound deceleration ramp. On Route 33 there will be expansion of the left-turn lane to Linda Lane and construction of a median between the left-turn lane and through lanes.

Specific design elements include:
- Construct new spur ramp from northbound I-81 deceleration ramp onto eastbound Route 33. This spur would be dedicated for traffic turning left onto Linda Lane.
- Extend Route 33 dual left-turn lanes and construct a raised median between turn lanes and through lanes on Route 33 to eliminate weave between existing I-81 deceleration ramp and left-turn lanes.
- Remove eastbound Route 33 to northbound I-81 loop acceleration ramp.
- Construct left-turn lane and ramp connection from eastbound Route 33 to other northbound I-81 acceleration ramp.
- Extend northbound I-81 deceleration lane for westbound Route 33 deceleration ramp.
Interstate 81 Exit 247 - Bridge and Interchange Improvements

**Estimated Cost:**
- $1,350,000 (UPC 111097)
- $12,900,164 (UPC 104177)
- $16,705,886 (UPC 100781)

This project reconstructs four structures on East Market Street (Route 33) and provides interchange modifications at Interstate 81, exit 247.

**Estimated total cost:**
$31 million

**Estimated Ad Date:**
Fall 2021

**Project Manager:**
John-Allen Ennis, P.E., 540-332-7891

Specific design elements include:
- Replace westbound and eastbound bridges along Route 33 over I-81.
- Replace westbound and eastbound bridges along Route 33 over Norfolk Southern Railway.
- Reconstruct all bridge approaches and tie in existing ramps.
- Extend left-turn lanes across the bridges over I-81.
- Construct a sidewalk, curb and gutter and a raised median along Route 33.

Route 11 (Lee Highway) - Bridge over I-81, Exit 257 at Mauzy

**Estimated Cost:**
$16,382,997

This project is located on Route 11 (Lee Highway) in Rockingham County. The bridge over Interstate 81 at exit 257 will be replaced with a new structure. The current bridge was built in 1963 and has reached the end of its service life.

**Estimated Ad Date:**
Early 2019

**Project Manager:**
Ronald Tabor, P.E., 540-332-7887

The proposed bridge will be constructed approximately 60 feet to the south of the existing bridge. The project includes realigning the bridge approaches. The new structure will have two lanes with left-turn lanes at about the same elevation as the existing crossing.

Additionally, the intersection of the northbound I-81 exit and entrance ramps with Route 11 will be signalized to improve the traffic operations of the interchange.
**Route 11 (South Valley Pike)**

**UPC 108810**

**SMART SCALE Applicant:** Rockingham County

**SMART SCALE Funding:** $18,296,217

**Estimated Cost:** $18,296,217

**Estimated Ad Date:** Fall 2021

The Route 11 (South Valley Pike) project consists of widening Route 11 from two lanes to a four-lane divided highway. The project extends from 0.1 mile south of the Route 704 East intersection to the southern corporate limits of Harrisonburg.

Route 11 will be widened on its western side utilizing as much of the existing roadway as possible. Six-foot paved shoulders will be included in the widening to accommodate bicycles along the corridor. The proposed median will vary in width. Narrow median areas will have a raised median including curbs. Wide median areas will be graded with a ditch.

An innovative intersection design known as Restricted Crossing U-Turn (RCUT) is being proposed throughout the corridor. The RCUT is an intersection design where all side street movements begin with a right turn. Side street left-turn and through vehicles turn right and make a U-turn at a dedicated downstream median opening to complete the desired movement. By limiting crossing conflicts, RCUTs improve overall safety and increase efficiency for the mainline roadway. The benefits of RCUT intersections include:

- **Improved safety:** Reduces the number of conflict points where vehicles cross paths and eliminates the potential for head-on crashes
- **Increased efficiency:** Each direction of the major street can operate independently, creating two one-way streets and increasing the overall intersection capacity
- **Shorter wait times:** Fewer traffic signal phases means less stopping for arterial vehicles and allowing only right turns from side streets means less waiting
- **Cost-effective:** An RCUT can be more cost effective than adding lanes to improve capacity

**Project Manager:**
John-Allen Ennis, P.E., 540-332-7891

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**Route 704 (Cecil Wampler Road) at Route 11 (South Valley Pike) Realignment**

**UPC 111053**

**SMART SCALE Applicant:** Rockingham County

**SMART SCALE Funding:** $1,475,108

**Estimated Cost:** $3,475,108

**Estimated Ad Date:** Fall 2021

The Route 704 (Cecil Wampler Road) project realigns Route 704 to intersect with Route 11 across from the Route 704 (Oakwood Drive) intersection. The realigned portion of Route 704 will remain two lanes and will include an additional turn lane at the Route 11 intersection. Minor improvements to Route 11 including a right-turn lane and modifications to the existing signal are included in the project. A new bridge over Blacks Run will be constructed as part of the project.
**Route 33 West (Rawley Pike)**

**SMART SCALE Applicant:**
Rockingham County

**SMART SCALE Funding:**
$9,366,944

**Estimated Cost:**
$9,366,944

**Estimated Ad Date:**
Fall 2020

**Project Manager:**
Ronald Tabor, P.E., 540-332-7887

This project is located on Route 33 (Rawley Pike) in western Rockingham County. This 1.83-mile long project extends from 0.05-mile west of Switzer Lake Road to Laurel Wood Lane. This location is near the West Virginia border in mountainous terrain with several sharp curves. Widening will be done to improve safety.

Route 33 is a two-lane roadway with shoulder width ranging from two feet to none. The existing roadway has a winding alignment typically found in mountainous terrain.

The proposed project will provide two 12-foot lanes and two four-foot paved shoulders. A 1000-foot long truck-climbing lane will be constructed on a straight section of roadway. Several curves will be widened and flattened to help with vehicle navigation.

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**Route 33 (East Maret Street)**

**Bridges over Norfolk Southern Railroad**

**Bridge Replacement**

**Estimated Cost:**
$16,705,886

**Estimated Ad Date:**
Fall 2021

**Project Manager:**
John-Allen Ennis, P.E., 540-332-7891

This project replaces two bridges on Route 33 (East Market Street) in the Harrisonburg area. These are the Route 33 eastbound and westbound bridges over the Norfolk Southern Railroad.

The project will also construct an additional lane on Route 33 between the Interstate 81 interchange at Exit 247 and Martin Luther King Way.
**Route 257 (Ottobine Road) - Dry River Bridge**

**Contract Value:**
$4,188,264

**Estimated Completion Date:**
Late 2018

**Project Manager:**
Mitch Ball, P.E., 540-332-9047

This project is located on Route 257 (Ottobine Road) at the bridge over Dry River in Rockingham County. The project is 0.178 mile long with its limits extending from 0.112-mile west of Route 738 to 0.066-mile east of Route 738. The proposed project will replace the deteriorated Dry River bridge. The existing bridge has two 11-foot lanes with narrow shoulders. The bridge is on a crest that limits sight distance at the Route 738 intersection.

The new bridge will be 225-feet long and have two 12-foot lanes. The shoulder width will be eight-feet wide. Sight distance will be improved at the Route 257 and Route 738 intersection. Route 738 will be on the same alignment as the existing roadway. Bridge construction will be in staged phases. During construction one lane of traffic will be maintained with a traffic signal on Route 257. Route 738 will be closed and a detour will be put in place.

A contract valued at $4,188,264 was awarded in February 2017 to Fairfield-Echols LLC, of Fishersville, Virginia.

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**Route 682 (Friedens Church Road) - Intersection Realignment**

**SMART SCALE Applicant:**
Rockingham County

**SMART SCALE Funding:**
$1,116,434

**Estimated Cost:**
$1,616,434

**Estimated Ad Date:**
Fall 2021

**Project Manager:**
Joseph Seaman, 540-332-9908

This project will realign the sharp curve on Rt. 682 (Friedens Church Road), where Route 988 (Scholars Road) and Friedens Church Road intersect, by expanding the curve in the road to move Friedens Church Road away from the rock wall and church cemetery.
Route 720 (Smithland Road) Bridge over Interstate 81

Estimated Cost: $10,220,470

This project is located on Route 720 (Smithland Road) in Rockingham County. The bridge over Interstate 81 will be replaced with a new structure. The current bridge was built in 1960 and has reached the end of its service life.

Estimated Ad Date: Fall 2020

The proposed bridge will be constructed approximately 30 feet to the west of the existing bridge and will be 5.5-feet higher. The project includes realigning the bridge approaches.

Project Manager: Ronald Tabor, P.E., 540-332-7887

The new bridge will have two through lanes and one turn lane. A five-foot wide sidewalk will be located on the west side of the project.

Additionally, the intersections of Route 720 (Smithland Road) and Route 718 (Old Furnace Road) will be improved to make Route 720 the through street. Dedicated turn lanes will also be constructed on Route 720.

Route 921 (Lairs Run Road) - North Fork Shenandoah River Bridge

Estimated Cost: $2,518,000

The project replaces the low-water bridge over the North Fork of the Shenandoah River on Route 921 (Lairs Run Road) in Rockingham County. The existing single-lane bridge built in 1974 has reached the end of its service life. This project is about 0.2-mile long, extending from Route 259 (Brockway Gap Road) to 0.2-mile west of Route 259.

Estimated Ad Date: Fall 2018

The old bridge has a fourteen-foot, five inch wide single lane and is 114-feet long. The new low-water bridge will be located approximately 50-feet north of the old bridge and will have a fifteen-foot, eight inch wide single-lane, and will be 120-feet long.

Project Manager: Amedebhran Aslaw, 540-332-9541
## Locally Administered - Rockingham County
### Route 687 (Massanetta Springs Road)

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This project is 0.52-mile long and extends from Route 33, heading south on Route 687. Safety will be improved along this roadway by reducing several hills, widening the road, and adding curb and gutter. Turn lanes will also be added at the Route 33 intersection.

Rockingham County will be administering the project, which is funded with Revenue Sharing allocations.

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<td>Michael Fulcher, 540-332-2243</td>
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## Locally Administered - Rockingham County
### Route 710 (Reservoir Street) - Widen

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This project will widen Reservoir Street from two lanes to four lanes with sidewalk, median and bike facilities. The project is 0.35-mile long and extends from the Harrisonburg City and Rockingham County line to the Southeast Connector (Route 280).

A contract was awarded in May 2017 to A&J Development and Excavation, Inc. of Mount Crawford, Virginia.

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The Rural Rustic Road program provides paving to qualifying secondary roads. All work to be completed within the existing right of way. The road surface is generally widened to 16 to 18 feet, drainage is improved and the road receives a surface treatment pavement.

Route 681 (North Whitsel Church Road)  UPC: 111594
This project is 1.6-mile long and paves Route 681 from Route 988 to Route 679.
Estimated Cost: $525,000
Estimated Ad Date: Summer 2019
Project Manager: Kenneth Wakeman, 540-434-2587

Route 708 (Ore Bank Road)  UPC: 111593
This project is 0.55-mile long and paves Route 708 from Route 663 to 0.55-mile north of Route 663.
Estimated Cost: $200,000
Estimated Ad Date: Summer 2019
Project Manager: Kenneth Wakeman, 540-434-2587

Route 747 (Mossy Creek Road)  UPC: 111590
This 0.8-mile long project paves Route 747 from Route 835 to Route 727.
Under Construction: $200,000
Estimated Completion: Late Summer 2018
Project Manager: Kenneth Wakeman, 540-434-2587

Route 765 (Cromer Road)  UPC: 111596
This project is 1.1-mile long and paves Route 790 from Route 910 to Route 42.
Estimated Cost: $450,000
Estimated Ad Date: Summer 2020
Project Manager: Kenneth Wakeman, 540-434-2587

Route 790 (Vetters Road)  UPC: 103117
This project is approximately 1.3-mile long and paves Route 790 from Route 613 to 1.3 miles east of Route 613.
Under Construction: $552,603
Estimated Completion: Late 2018
Project Manager: Kenneth Wakeman, 540-434-2587
Rural Rustic Roads

The Rural Rustic Road program provides paving to qualifying secondary roads. All work to be completed within the existing right of way. The road surface is generally widened to 16 to 18 feet, drainage is improved and the road receives a surface treatment pavement.

Route 798 (Hillyard Drive)  UPC: 107149
This project is 1.1 miles long and paves Route 798 from Route 1419 to Route 619
Estimated Cost: $450,000
Estimated Ad Date: Summer 2019
Project Manager: Kenneth Wakeman, 540-434-2587

Route 955 (Jacksons Way)  UPC 107148
This 1.64 mile long project paves Route 955 from Route 1603 to Route 340, and also includes paving Route 1604 (Tiger Camp Road) from Route 955 to Route 253, a 0.36 mile length. Total length of both projects is 2.0 miles.
Under Construction $500,000
Estimated Completion: Late 2018
Project Manager: Kenneth H. Wakeman, 540-434-2587