

Route 11, 220, 220A

Access Management Project At I-81, Exit 150

Project Update

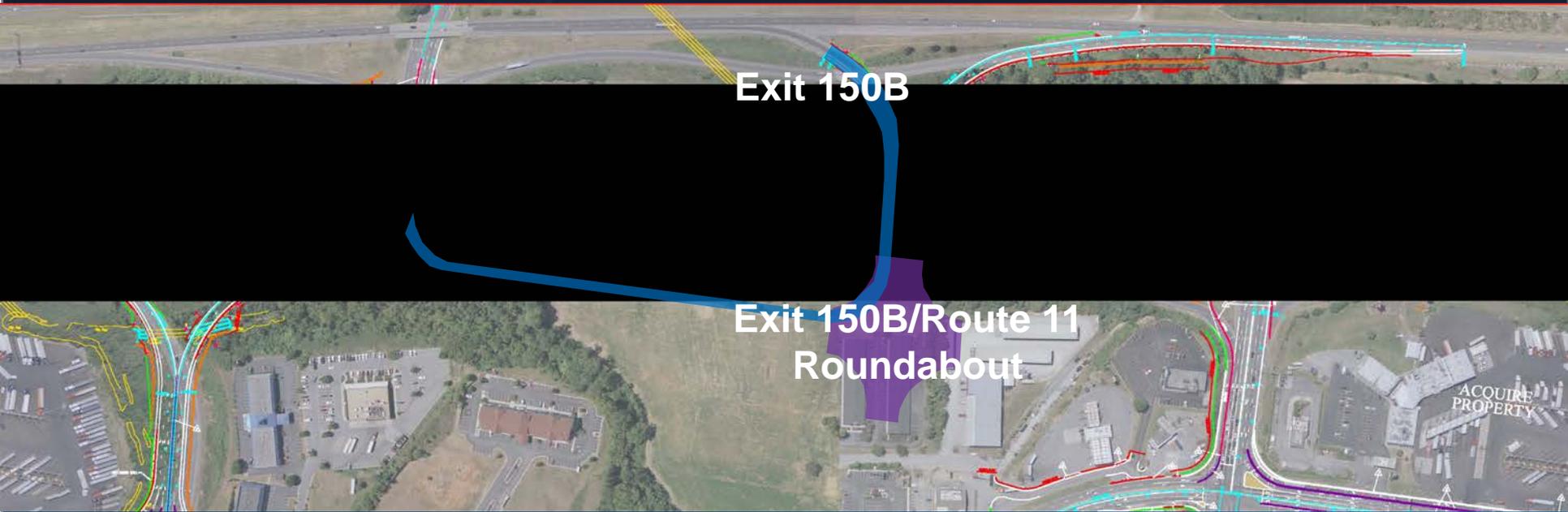
Fall 2014



From: 0.30 Mi. South of Route 220
To: 0.74 Mi. North of Route 220
Botetourt, Virginia

The Final Design





- Provides a roundabout instead of a traffic signal to enhance traffic flow and increase capacity at the Exit 150B/Route 11 intersection.
- Creates a dedicated Exit 150B off-ramp with NB Route 220 to accommodate the heaviest traffic movement at the Route 11/220/220A intersection. This will improve traffic flow.

The Final Design

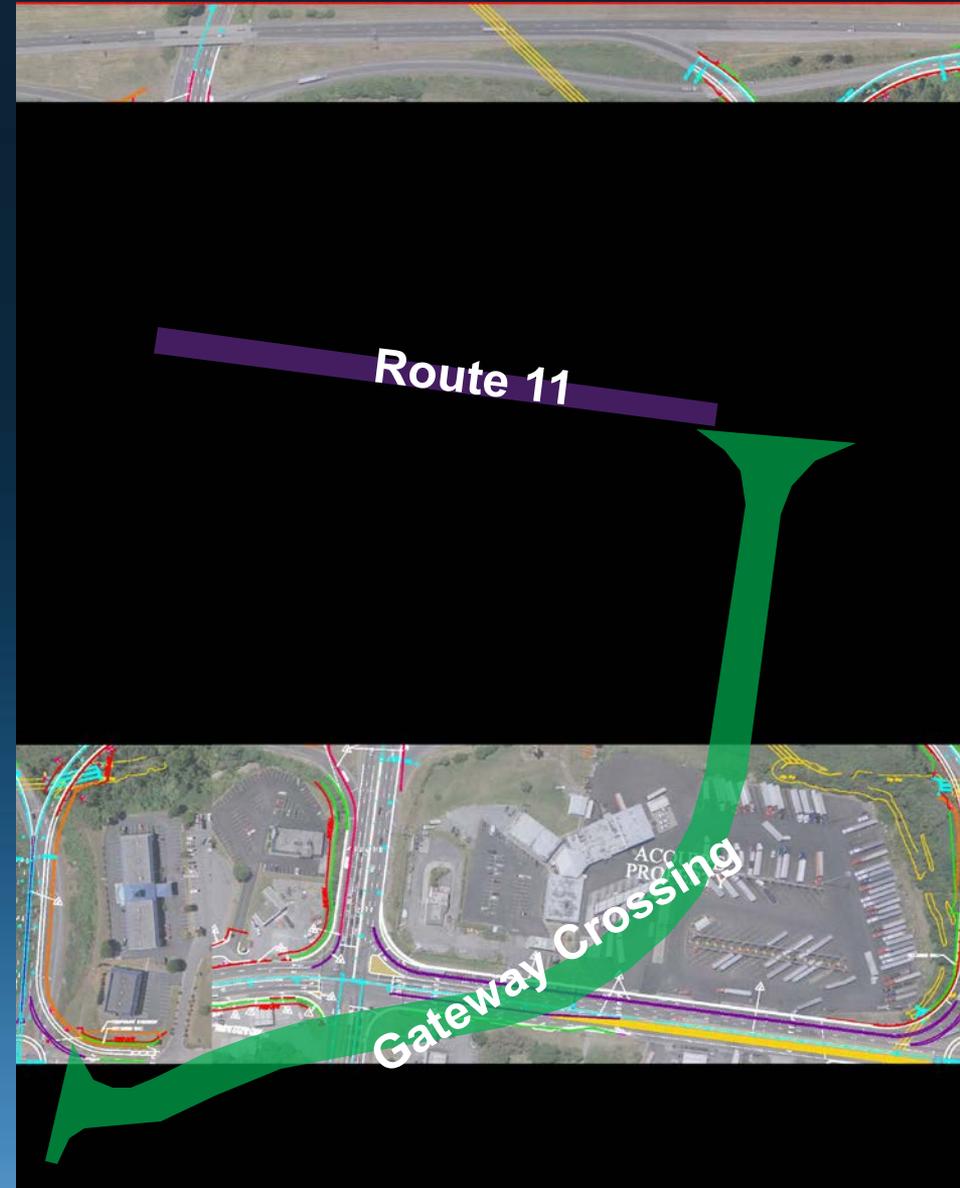


- Modifies Exit 150A to allow right turns onto Route 11 southbound only and eliminate hazardous merge/weaves.
- Creates a new NB I-81 on-ramp adjacent to Exit 150B to provide safer access. Existing NB I-81 on-ramp closed.

The Final Design



- Replaces Route 11 center turn lane with a raised median with no left turns allowed between Exit 150B and the Route 11/220/220A intersection. Right in/right out access improves safety and traffic flow.
- Constructs Gateway Crossing, a new connection between Route 11 and 220A that will enhance traffic flow.



The Final Design



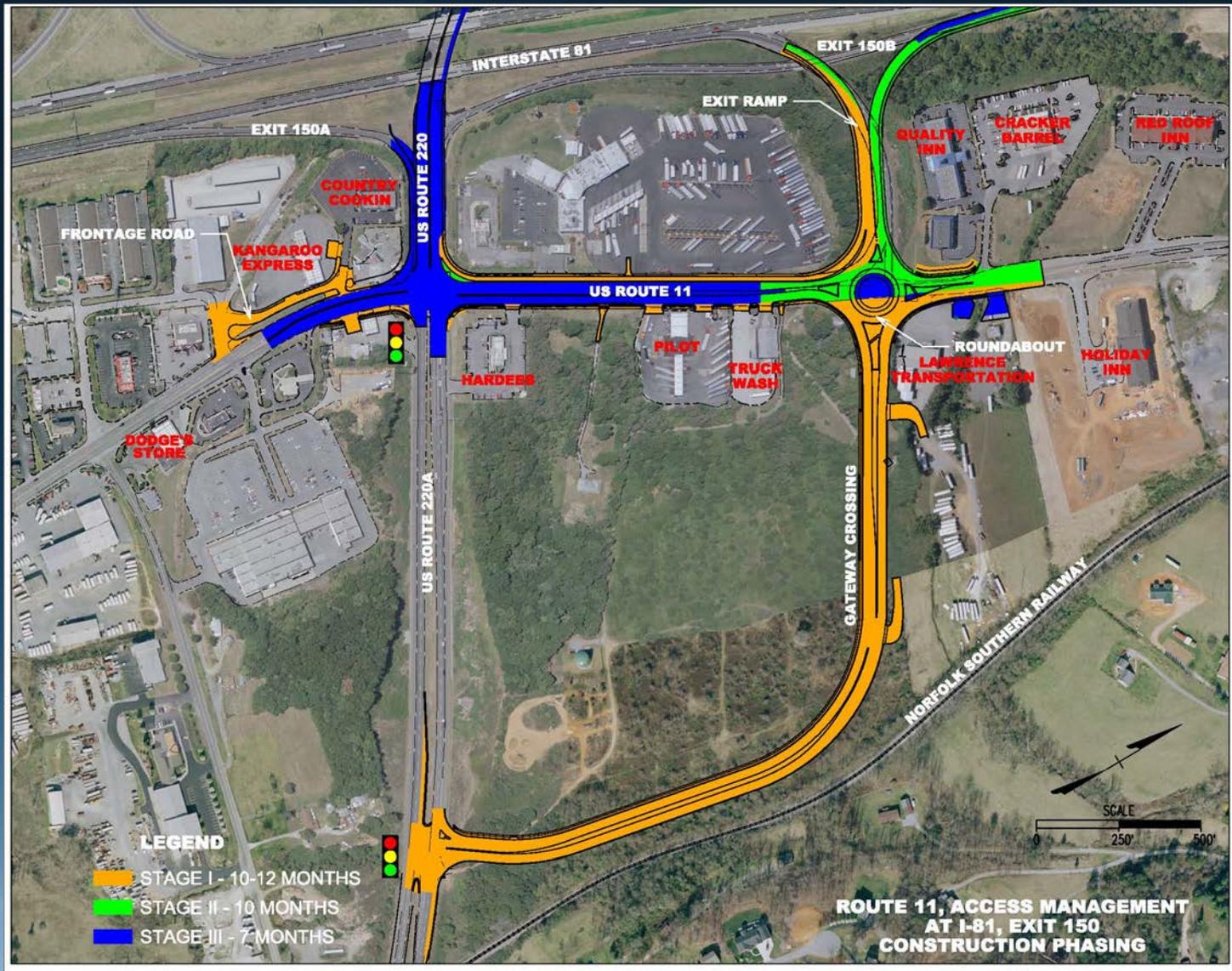
- Provides landscaping opportunities within the roundabout to serve as a gateway into Botetourt County.
- Allows access to additional area of approximately 21 acres of property for future development.



Staged Construction

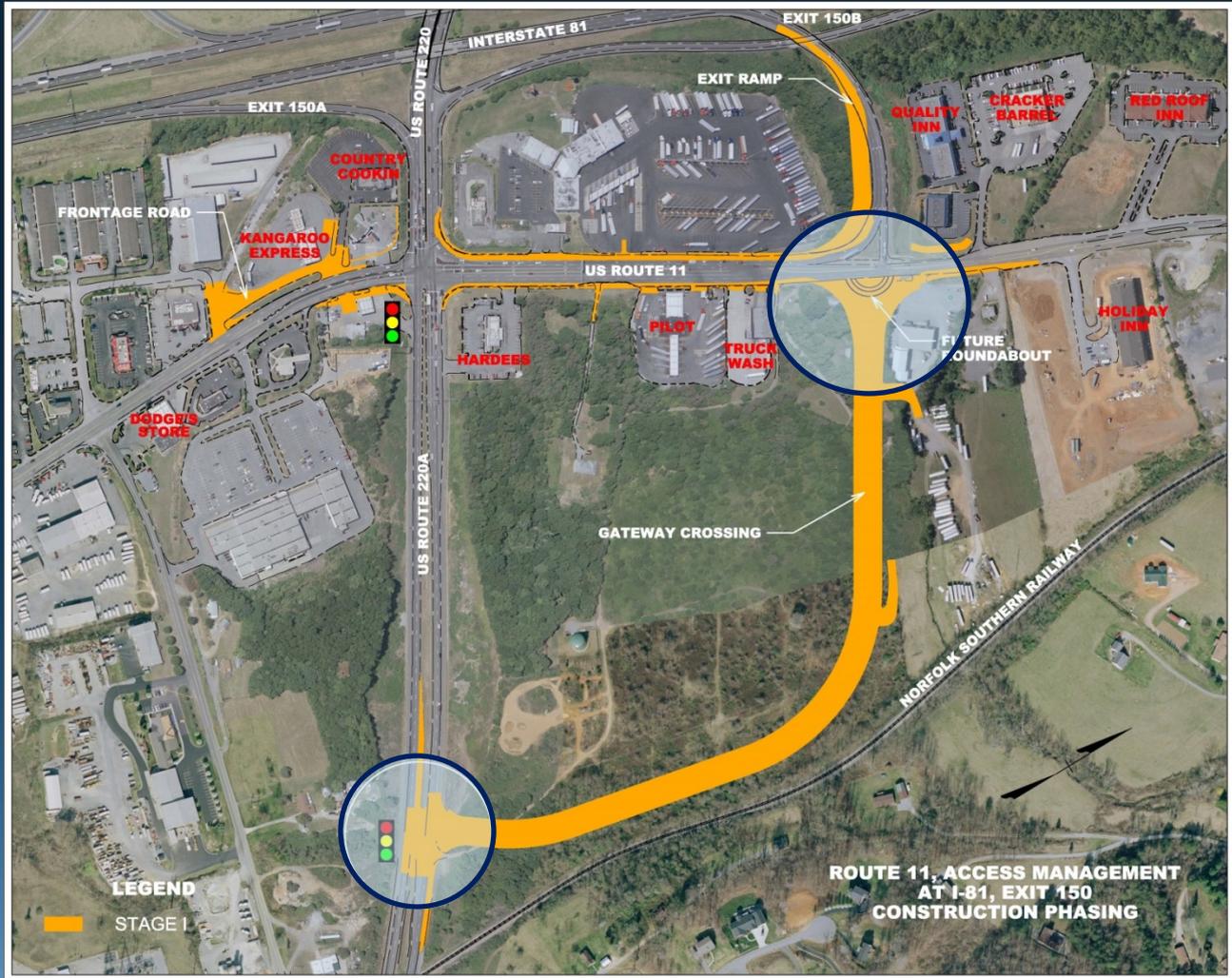
- Right of Way acquisition Complete – Fall 2014
- Project advertisement – Winter 2014
- Begin construction – Spring 2015
 - ✓ Stage I – 10-12 months
 - ✓ Stage II – 10 months
 - ✓ Stage III – 7 months
- Estimated project completion (open to all traffic) – Fall 2017
- Remaining incidental work completed – Summer 2018

Staged Construction – All Stages



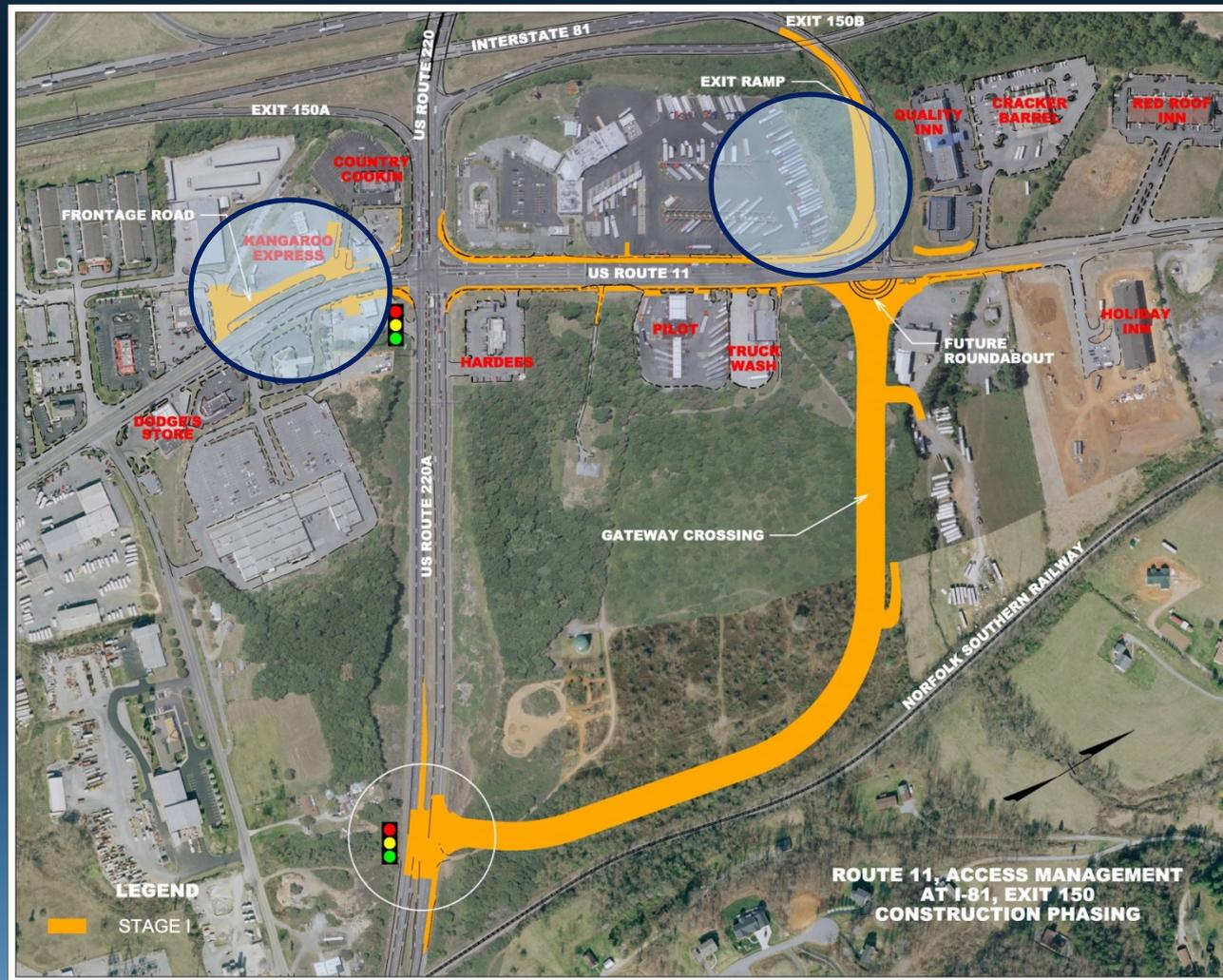
Stage I Phases and Impacts

- Construction of the new intersection of Gateway Crossing with Route 220A to include turn lanes and a traffic signal
 - *Shoulder closures on Route 220A with short-term nighttime lane closures, Sunday-Thursday, 10 pm-6 am*
- Construction of Gateway Crossing and half of new roundabout
 - *No traffic impacts on new location*
 - *Shoulder closure and short-term nighttime right lane closures on NB Route 11 for new intersection tie-in*



Stage I Phases and Impacts

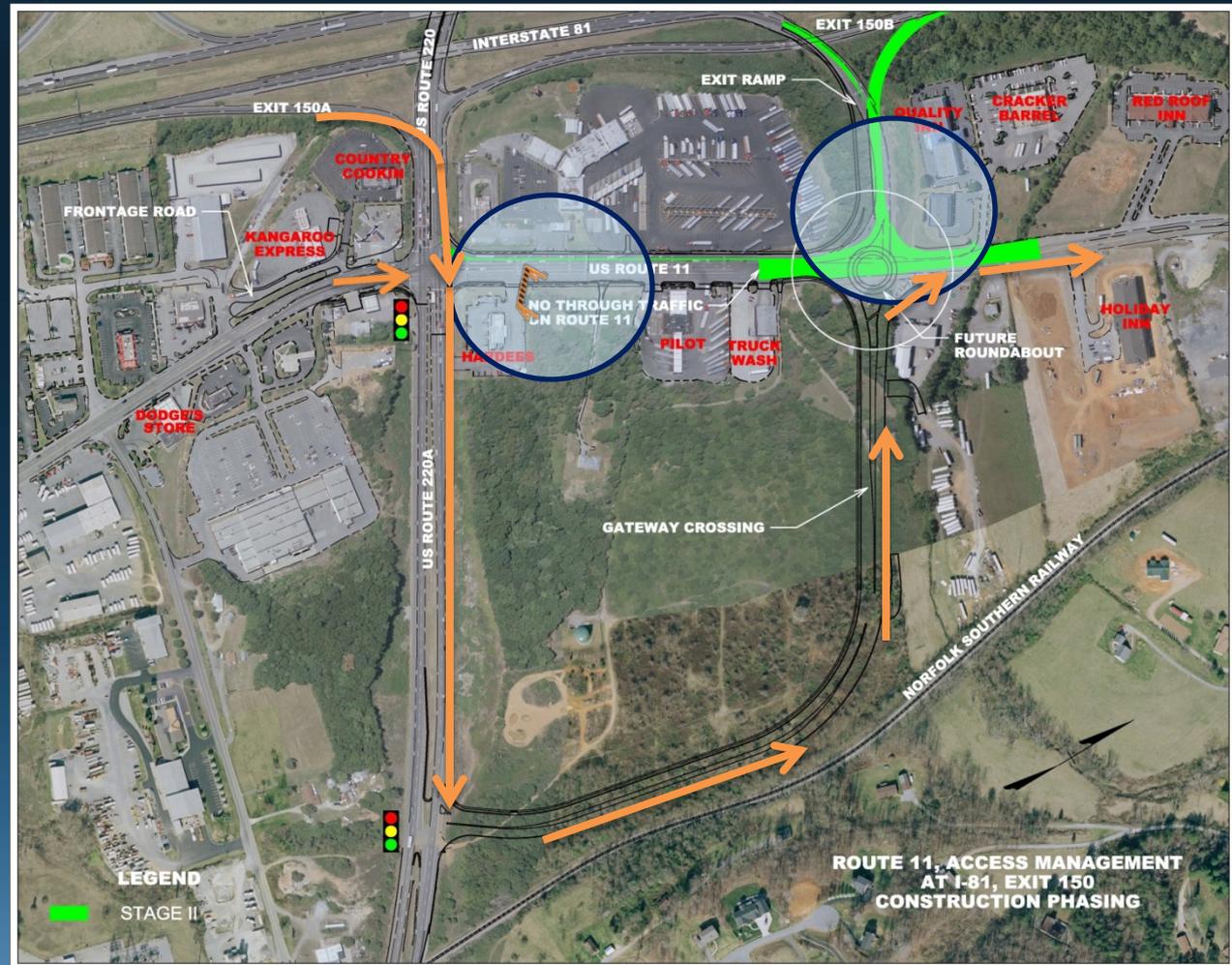
- Construction of the majority of the new NB 150B off-ramp and widening along Route 11
 - *Short-term, nighttime right lane closures on SB Route 11 for new intersection tie-in*
 - *Possible narrowing during nighttime hours on NB 150B off-ramp*
- Construction of 500 feet of new frontage road along Route 11 at Kangaroo Express and Country Cookin'
 - *Flaggers to control traffic on SB Route 11 during night time hours*



Stage II Phases and Impacts



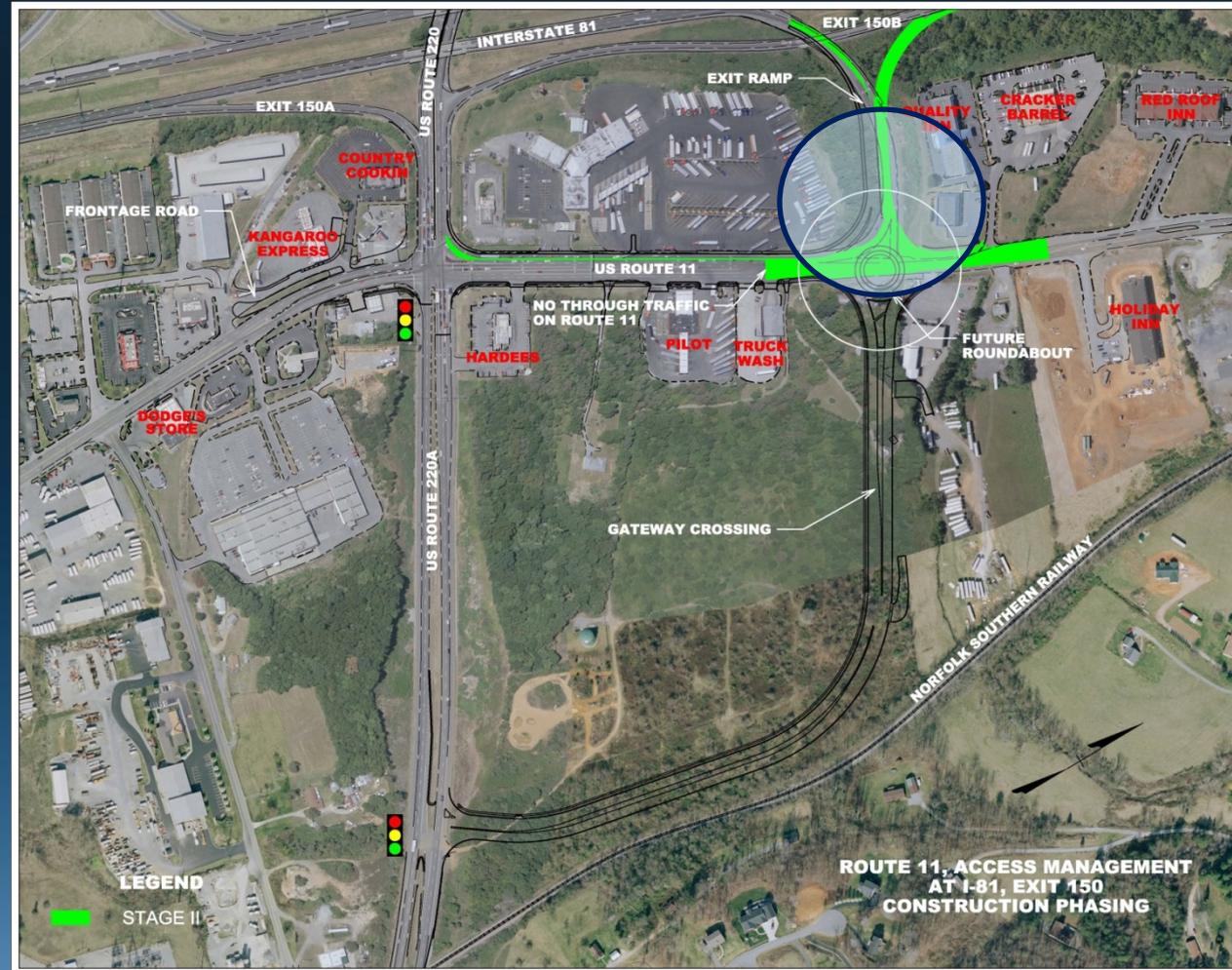
- Exit 150B with access to NB Route 11 (left turn onto Route 11) will be closed to through traffic.
- NB I-81 traffic exiting to NB Route 11 will be detoured through exit 150A during the project for the majority of Stage II.
- NB Route 11 starting at the 220/220A intersection will be closed to through traffic. NB Route 11 will be reduced to one lane to local traffic only. NB Route 11 through traffic will be re-routed to Route 220A onto Gateway Crossing to return to NB Route 11.



Stage II Phases and Impacts



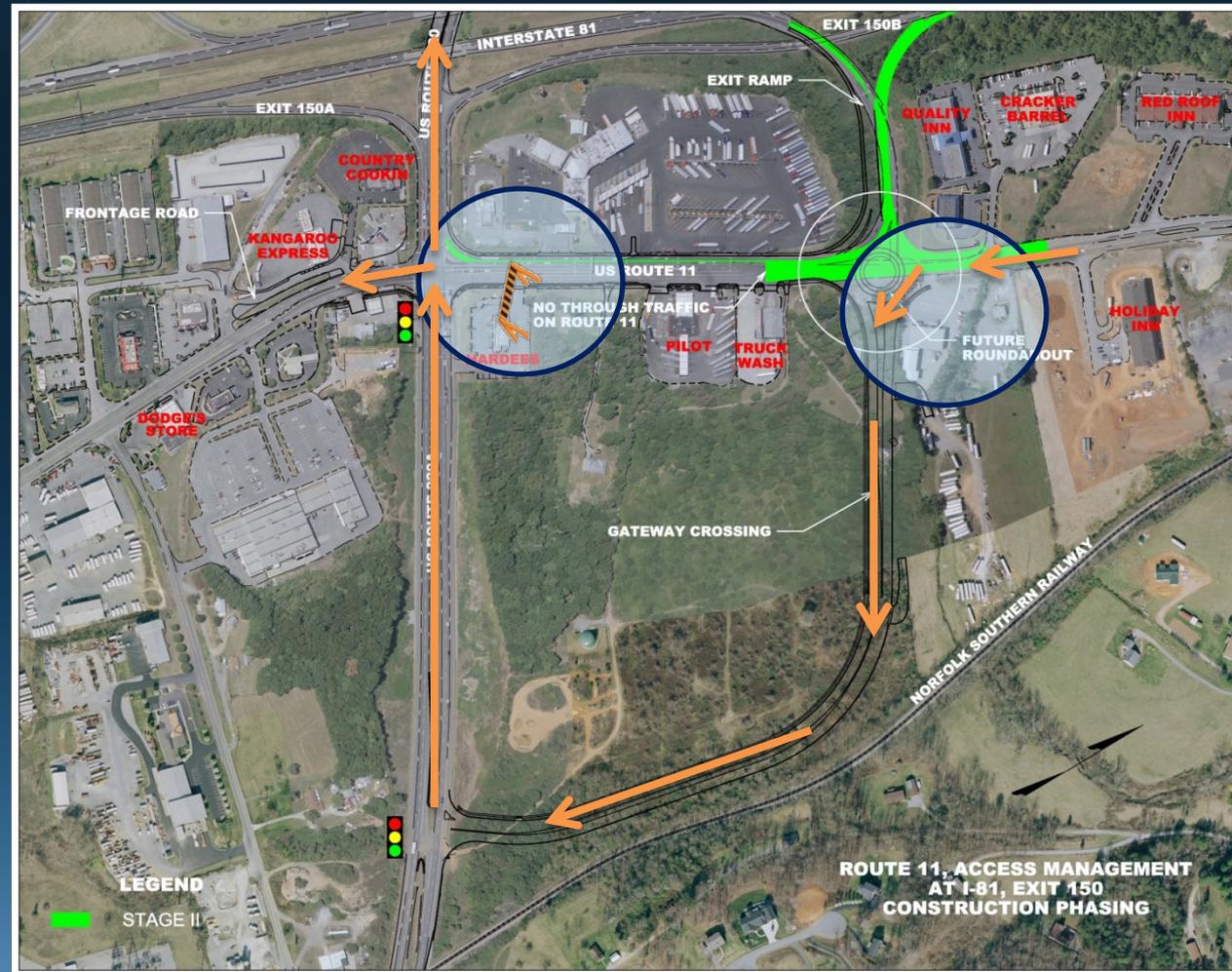
- Construction of the remainder of new NB 150B off-ramp and construction of the majority of the NB 150B on-ramp.
- Construction of approximately half of the roundabout.



Stage II Phases and Impacts



- SB Route 11 is reduced to one lane and re-routed onto the new Gateway Crossing to connect to 220A. SB Route 11 closed to through traffic (approximately an 8-month duration). Additional turn lanes will be provided as needed for entry into businesses.



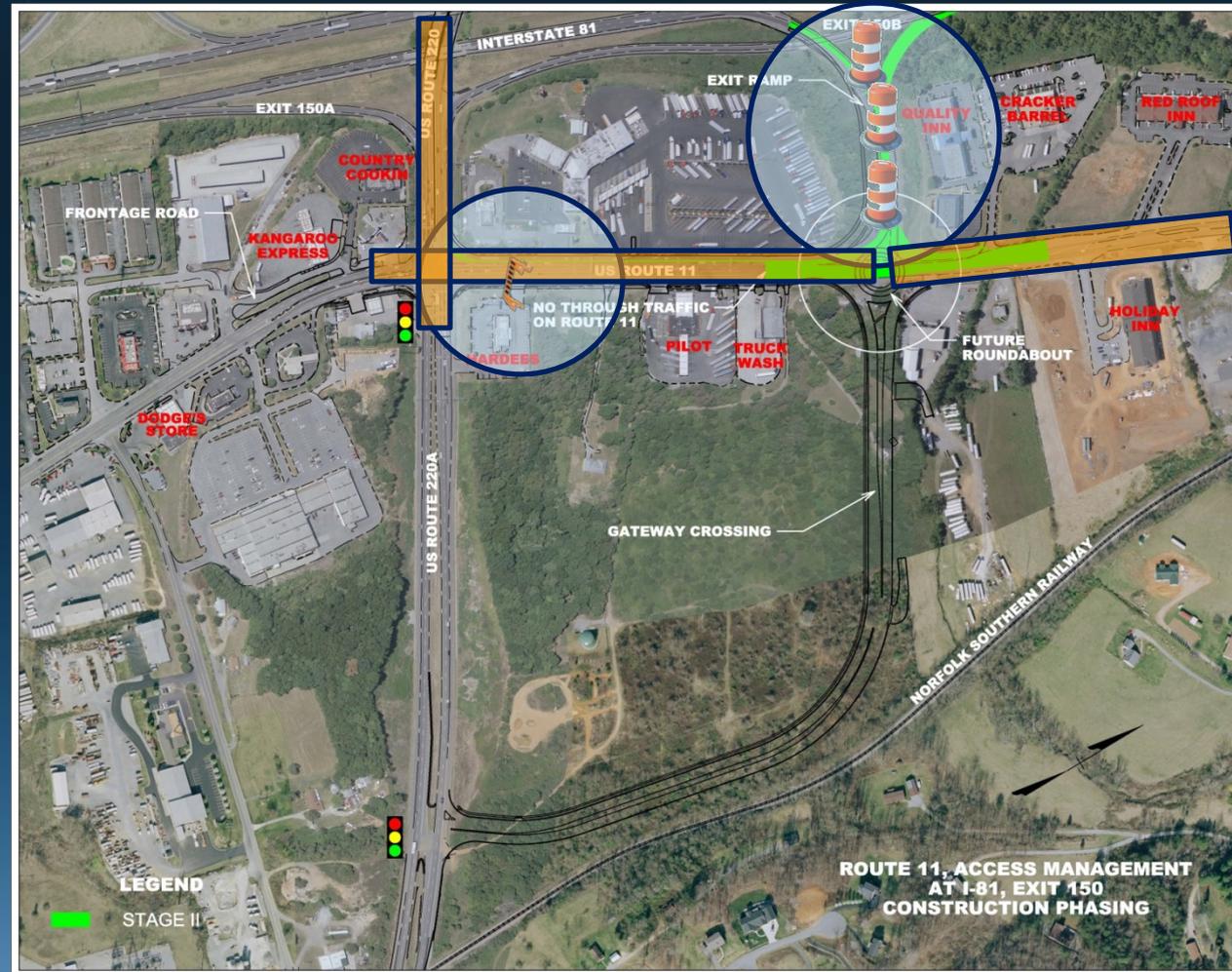
Stage II Phases and Impacts



- Although there will be impacts to local business traffic, access to businesses will remain open. Businesses along Route 11 between the roundabout and the Route 220 intersection will have access from the 220/220A intersection.

- Periodic short-term lane and shoulder closures during nighttime hours Sunday – Thursday, 10pm-6am may occur on Route 11 and 220/220A.

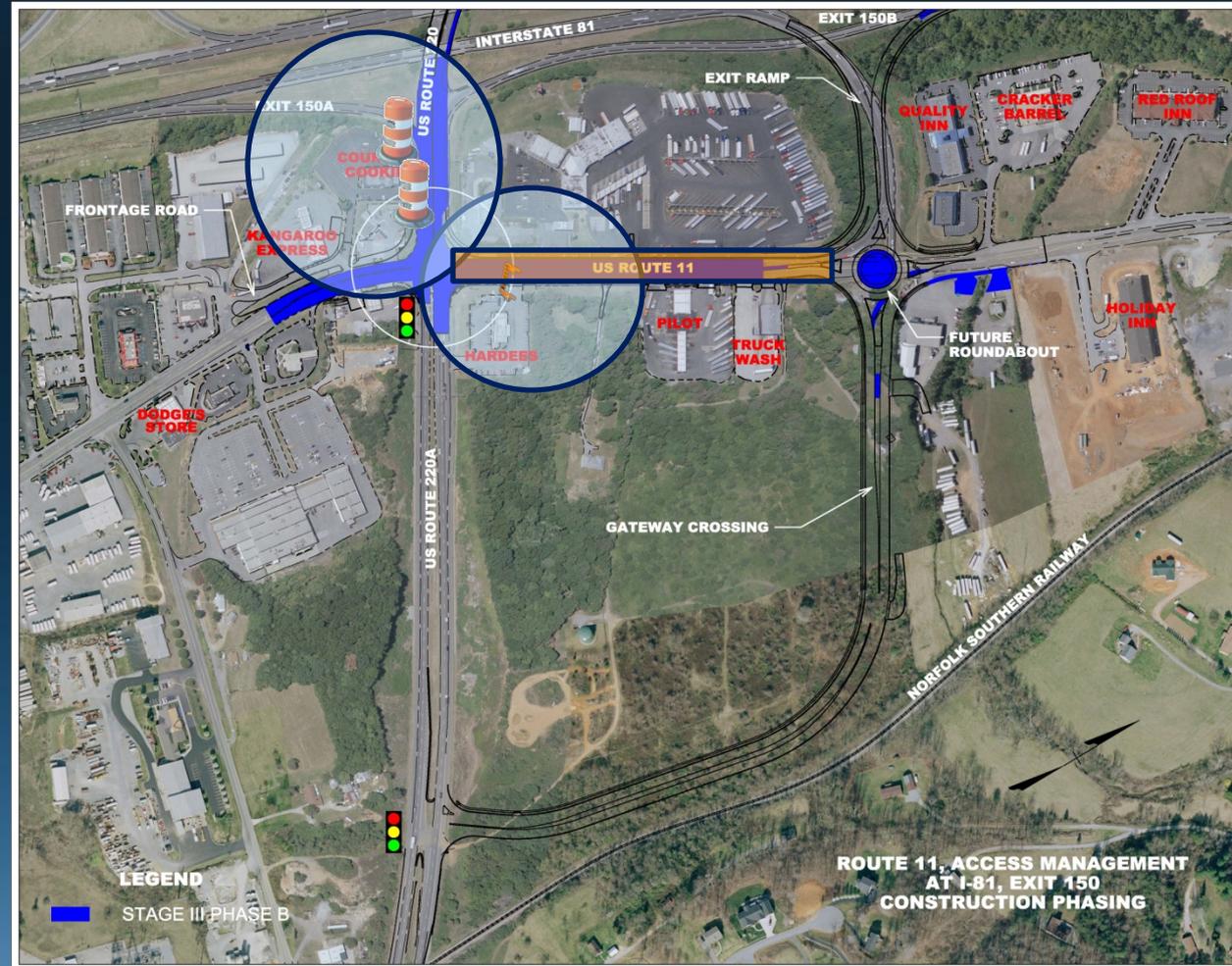
- Concrete traffic barrier and barrels will be used to narrow 150B off-ramp. A vehicle width restriction of 12 feet will be in place for approximately two months. Wider vehicles will be re-routed to either exit 146 or exit 156.



Stage III Phases and Impacts



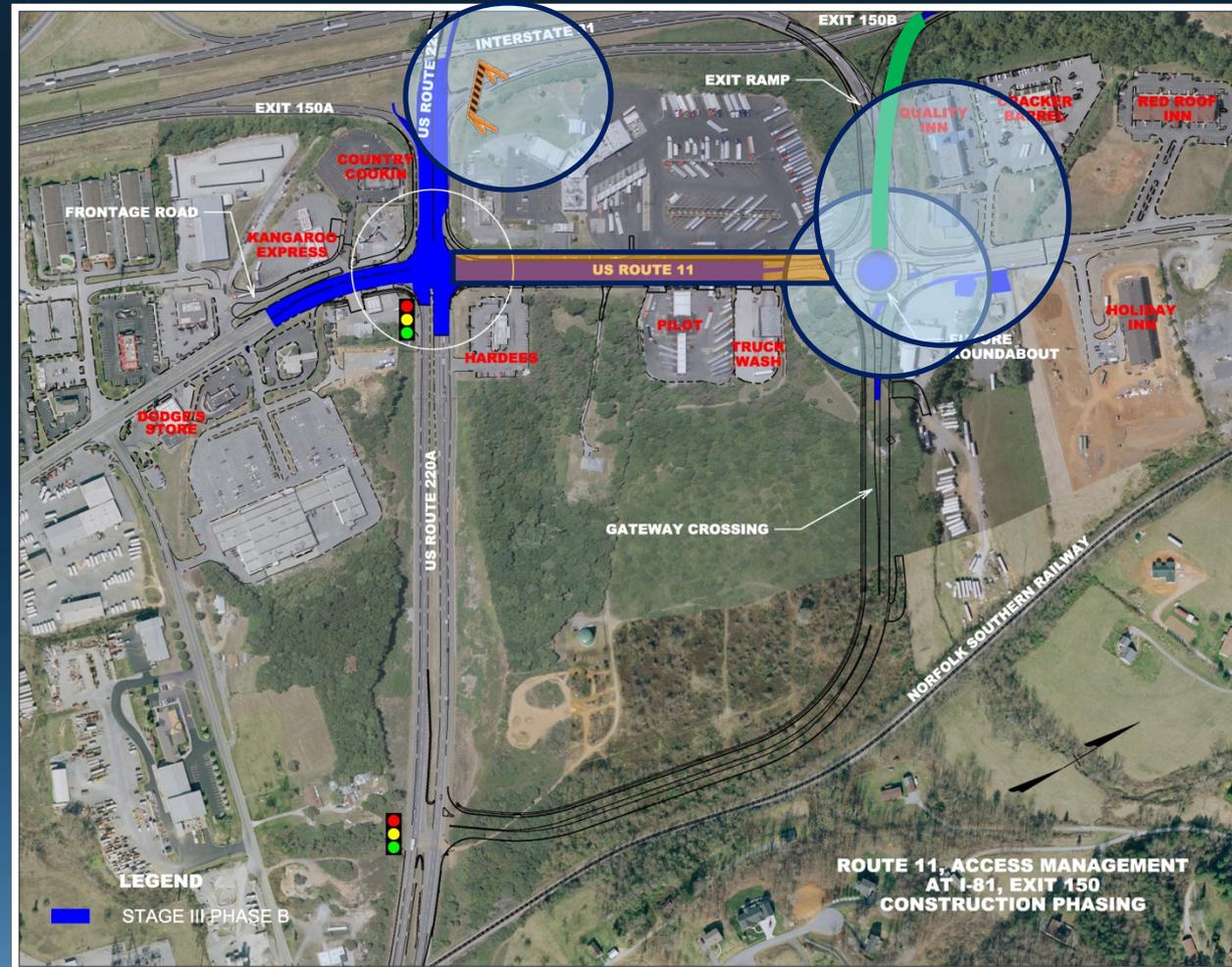
- Installation of new barrier wall on exit 150A off-ramp to allow right turn only onto SB Route 11
 - *Nighttime SB Route 220 right lane closures and exit 150A off-ramp narrowed*
 - *Current SB Route 220 through lane reconfigured as shared through and right lane to SB Route 11.*
- Construction of raised right-in/right-out raised median along Route 11 between the Route 11/220/220A intersection and the roundabout
 - *Nighttime lane closures on NB or SB Route 11 for work in current center turn lane*
 - *SB Route 11 left turns into businesses on Route 11 will be prohibited.*



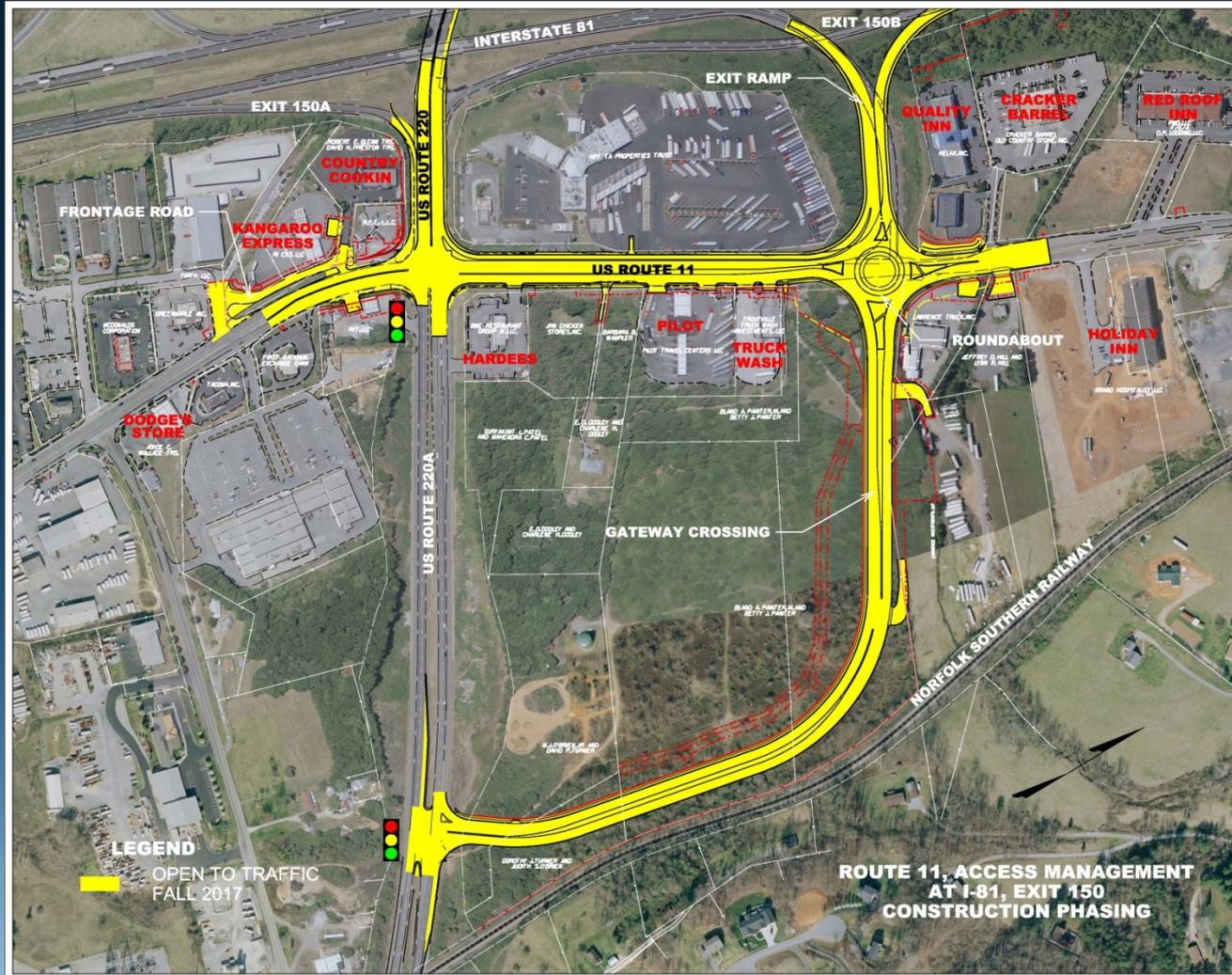
Stage III Phases and Impacts



- Roundabout open to traffic and Route 11 through traffic closure removed.
- New NB I-81 from Route 11 on-ramp open. Old NB I-81 on-ramp from Route 220 closed. Extend NB Route 220 right lane to access SB I-81
 - *Nighttime lane closures on NB Route 220, Sunday – Thursday, 10 pm-6 am*
- Mill and overlay Route 11, 220, and 220A
 - *Nighttime lane closures on Route 11 and Route 220 for final paving Sunday – Thursday, 10pm-6am.*



Completed Project
Open to traffic in fall 2017



Discussion

Route 11, 220, 220A

Access Management Project At I-81, Exit 150

Project Update

Fall 2014



From: 0.30 Mi. South of Route 220
To: 0.74 Mi. North of Route 220
Botetourt, Virginia

Anatomy of the Proposed Roundabout



- Two lanes from 150B Exit Ramp to Gateway Crossing
- Geometry designed for truck traffic
- Enhanced safety
- Easy access to and from I-81
- Additional lighting and landscaping
- Gateway into Botetourt County

