Cultivating Avon Street
March 21, 2019 | Engineering Study from 5th Street Station to Cale Elementary
Brief Recap

February 2019
- Review Of Context(s)
- Street Design Elements
- Traffic Volumes and Intersections
- Diagrammatic Corridor Review
- Examples

Concept Design and Preliminary Engineering Considerations
- Meet with Agencies
- Funding Research

March 2019
- RE:Cap
- Stakeholder Meetings

Design
- Function
- Safety
- Character
- Connectivity

Looking Ahead
- Feedback
Presentation Outline

RE:Cap

Stakeholder Meetings

Function
Character
Connectivity
Safety

Design

Looking Ahead

Feedback
Main Concerns:

- Safety
  - Safe pedestrian routes and crossings
  - Safe bicycle routes
- Aesthetic / Character
  - Residential feel
  - Entrance Corridor elements
- Connectivity
  - Pedestrian and bicycle connections to major destinations
  - Alternative transit options
- Functionality
  - Increased intersection efficiency
  - Account for traffic demand increase from future developments
RE:Cap | Funding

HB2 (Smart Scale)
Revenue Sharing
Economic Development Access Grant

HSIP
Transportation Alternatives
(Part of HB2 Application)

HSIP / Transportation Alternatives
Revenue Sharing

City Sponsored Projects

TA Grants (SRTS, RTP)
Recreational Access
Proffered with Future Developments
Already Funded

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Meeting with Cale Elem. Teacher: Amanda Brookman

Summary of 02/26/2019 Meeting Minutes:

- Student Population: 600-650
- Vehicle Traffic
  - Peak Hour: 7:40-8:10
  - Left Turn Into Cale (SB) is difficult due to NB traffic
  - Queue can extend to Mill Creek
- Parking:
  - During School Events parents will park along Avon
- Pedestrians
  - Majority of walkers come from Avinity
  - Lack of walking paths encourages Mill Creek, Reynovia and Foxcroft residents to drive
  - Spur Sidewalks (into neighborhoods) is lacking
- Bikers
  - Many would-be bikers do not ride to school due to inadequate safe crossing options
  - Steep Hills are deterrent as well
  - Large biking community in and around Mill Creek
Meeting with VWCC Kim McMannus

Summary of 02/27/2019 Meeting Minutes:

• Student Access Route
  • Primarily vehicular, utilizing Route 20 entrance
  • Service region: Greene, Louisa, Albemarle, Fluvanna, Charlottesville
  • Service region dictates mode of travel
• PVCC Future Development
  • No plans for west side of campus (Adjacent to Avon St.)
  • No desire to provide vehicular access from Avon St.
• Avon Master Plan Integration
  • Not opposed to proposed ped bridge access
  • PVCC doesn’t desire to be a cut-through for bike/ped access to Monticello
  • No foot traffic permitted on existing dam
  • Vagrant population lives in woods across from jail
RE:Cap

Stakeholder Meetings

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Overview of Design Area (For This Meeting)

Cale Elementary To 5th St. Station Pkwy
Overview of Design Areas

- Avon Street @ Cale
- Avon Street @ Mill Creek
- Avon Street @ Southern
- Avon Street @ Lakeside
- Avon Street @ 5th St. Station Pkwy
- Avon Street @ I-64
Avon St. @ Mill Creek

Existing Conditions:

1. High speeds through intersection
2. Excessive pavement width
3. Intersection congestion
4. Lack of Bike/Ped facilities
5. Dangerous crossing
6. Unconnected Bike/Ped facility
Avon St. @ Mill Creek
Avon St. @ Mill Creek

Safety Improvements:

1. Lower speeds through intersection
2. Buffer strip
3. Fewer conflict points
4. Shorter crossing widths/Higher visibility of non-motorized users
Avon St. @ Mill Creek

Connectivity Improvements:

1. New marked crossing
2. New Bike/Ped facility
3. Open median for left turns
4. Connection to existing Bike/Ped facility
Aesthetic/Character Improvements:

1. Reduced pavement/increased green space
2. Buffer for street trees
3. Centralizing landmark
4. Curbing/edge treatment consistency
Avon St. @ Mill Creek

Function/Efficiency Improvements
Avon St. @ Southern Parkway

Existing Conditions:

1. Extra westbound thru lane/turn lane to nowhere
2. Excessive pavement width and turn lane length
3. Intersection congestion (Left onto Avon)
4. Lack of Bike/Ped facilities
5. No crossings
6. Unconnected Bike/Ped facility
Avon St. @ Southern Parkway

Safety Improvements:

1. Reduce lane widths to shorten crossing distances
2. Traffic calming medians
3. New buffered Bike/Ped facilities
4. Improved buffered Bike/Ped facility
5. New marked crossing
6. Mid-block crossing (higher visibility of non-motorized users)
Avon St. @ Southern Parkway

Connectivity Improvements:

1. New marked crossing
2. New Bike/Ped facility
3. Improved buffered Bike/Ped facility
4. Connection to existing Bike/Ped facility
Avon St. @ Southern Parkway

Aesthetic/Character Improvements:

1. Reduced pavement/increased green space
2. Buffer for street trees
3. Landmark (Viewpoint) 🌞
4. Curbing/edge treatment consistency
5. Further lane reduction dependent on traffic study
Avon St. @ Southern Parkway

Function/Efficiency Improvements
Avon St. @ I-64

Existing Conditions:

1. Major Interstate crossing
2. 2 lane bridge with minimal shoulders
3. Lack of Bike/Ped Facilities
Avon St. @ I-64

Safety Improvements:

1. Separate Bike/Pedestrian bridge options
2. 6’ Buffer
3. SUP Lighting
Avon St. @ I-64

Connectivity Improvements:

1. Direct connection (longer bridge span)
2. Meandering connection (shorter span)
Avon St. @ I-64

Aesthetic/Character Improvements:

1. Structural finishing can add aesthetic
2. Buffer for street trees
3. Centralizing Landmark
4. Curbing/edge treatment consistency
Avon St. @ 5th Street Station

Existing Conditions:

1. Lack of Bike/Ped facilities
2. No Crossing
3. Unconnected Bike/Ped facility
Avon St. @ 5th Street Station

Safety Improvements:

1. New buffered Bike/Ped facilities
2. New marked crossing
3. Reduced crossing width
Avon St. @ 5th Street Station

Connectivity Improvements:

1. New marked crossing
2. New Bike/Ped facility
3. Connection to existing Bike/Ped facility
Avon St. @ 5th Street Station

Aesthetic/Character Improvements:

1. Buffer for street trees
2. Potential Landmark (Viewpoint)
3. Curbing/edge treatment consistency
Avon St. @ Cale Elementary

Existing Conditions:

1. High speeds along roadway
2. Unused pavement
3. Turn lane congestion (unacceptable NB gaps)
4. Lack of Bike/Ped facilities
5. Dangerous crossing
6. Unconnected Bike/Ped facility
Avon St. @ Cale Elementary

Safety Improvements:

1. Traffic calming measure (to be designed)
2. Traffic calming median
3. New Bike/Ped facility (project integration)
4. Potential for improved Bike/Ped facility
5. Mid-block crossing (project integration)
Connectivity Improvements:

1. New marked crossing
2. New Bike/Ped facility
3. Potential for improved Bike/Ped facility
4. Connection to existing Bike/Ped facility
Avon St. @ Cale Elementary

Aesthetic/Character Improvements:

1. Reduced pavement/increased green space
2. Repetitive feature (Midblock crossing)
3. Curbing/edge treatment consistency
Avon St. @ Lakeside

Existing Conditions:

1. Conjoined right turn lanes
2. Excessive pavement width and turn lane length
3. Lack of Bike/Ped facilities
4. No crossing
5. Unused pavement
Aesthetic/Character Improvements:

1. Separation of right turn lanes
2. Traffic calming median
3. New buffered Bike/Ped facility
4. New marked crossing
Avon St. @ Lakeside

Connectivity Improvements:

1. New crossing
2. New Bike/Ped facility
3. Connection to existing Bike/Ped facility
Avon St. @ Lakeside

Aesthetic/Character Improvements:

1. Reduced pavement/increased green space
2. Buffer for street trees
3. Repetitive feature (medians)
4. Curbing/edge treatment consistency
5. Underground utilities
6. Further lane reduction dependent on traffic study
1.2 Miles of Avon Street

RE:Cap

Design Feedback

Safety

Connectivity

Character

Function

Stakeholder Meetings

Meetings

Looking Ahead

Feedback
Looking Ahead
Looking Ahead
Looking Ahead
1.2 Miles of Avon Street

RE:Cap

Stakeholder Meetings

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