



Rt 29 Solutions Hydraulic Planning Advisory Panel

February 22, 2018



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Agenda Item 1: Introductions

Hydraulic Planning Advisory Panel members

Technical Team members



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Agenda item 2: Public Interaction and Feedback

YouTube Views (Previous Meeting)

Feb. 8, 2018

- YouTube Views: 34



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Agenda item 2: Public Interaction and Feedback (continued)

For the period February 8 – February 21, 2018

Inbox and Phone

- None



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Agenda item 2: Public Interaction and Feedback (continued)

For the period February 8 – February 21, 2018

Website input

- None



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Agenda item 3: Response to Panel Feedback

- **Draft minimum Comprehensive Plan requirements of City and County for SMART SCALE Application (Agenda Item 5)**
- **Evaluate Hillsdale Extension to US 250 Bypass as Stand Alone Improvement (Future Agenda Item)**
- **Consider SMART SCALE Scoring Potential in “Other Considerations” section of the Evaluation Matrix (Agenda Item 6)**



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Agenda Item 4: Feedback from Neighborhood Meeting #1 and Transit Agencies



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Agenda Item 5: Minimum Comp. Plan Requirements for SMART SCALE Application

- Projects must be consistent with a locality's Comprehensive Plan
 - ✓ *The projects are consistent with the County's and City's Comprehensive Plans;*
- To get the additional .5 point in Economic Development, the project must be referenced in the locality's Comprehensive Plan
 - *Neither Comprehensive Plan currently references the proposed projects and will need to be added by Official Map, or Study by Inclusion or Direct Reference;*
- Other Minimum SMART SCALE requirements: Preferred Alternative, Traffic Analysis, Concept Plan, Cost Estimate, and support from the MPO and the Localities



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Agenda item 6: Transportation Progress Update

Progress since last meeting:

- Conducted Neighborhood Meeting #1
- Received Feedback from Transit Agencies on Scenarios
- Determination of Minimum Comprehensive Plan Requirements for SMART SCALE Application
- Additional Considerations for Evaluation Matrix



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Agenda item 6: Transportation Update (continued)

Other Considerations & Preliminary Recommendation Selection

- Review Study's Supporting Goals and Discuss Scenarios
- Rank Each Scenario Based on Those Goals
- Review Matrix and Updates Based on SMART SCALE
- Discuss and Rank Scenarios Based on Selected Matrix Criteria



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Agenda item 6: Transportation Update – Other Considerations

Study Supporting Goals:

- Establish a highly connected, pedestrian friendly center
 - *Established via the Core Area and Zan Rd. connection*
- Delivers reliable, efficient transit options
 - *Work to date does not adversely impact transit options today or in the future*
- Integrates bicycles and pedestrian amenities including safe and convenient ways to cross roadways
- Balances land use with right-sized transportation systems



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Agenda item 6: Transportation Progress Update – Other Considerations

Ranking of Scenarios Based on These Goals:

- Integrates bicycles and pedestrian amenities including safe and convenient ways to cross roadways.
 - *How well does each scenario provide bike & pedestrian connectivity to all four quadrants of the US 29 & Hydraulic intersection?*
 - *How well does each scenario provide easy and comfortable accommodations to bike and pedestrians?*
- Balances land use with right-sized transportation systems
 - *How well does each scenario facilitate easier vehicle movements between the quadrants around US 29 & Hydraulic Rd.?*
 - *How well does each scenario facilitate easier vehicle movements into and away from the study area?*

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Agenda Item 6: Transportation Update Scenario Evaluation

Project Scenarios	Criteria										
	Total US 29 Travel Time AM / PM (Min) ¹	Potential R/W & Utility Needs	High Level Project Construction Cost	Connectivity Across US 29	Environmental Impacts	Business Access Impacts	Bike/Ped & Transit Mobility	Vehicle Safety Benefit ²	Bike / Ped Safety Benefit ²	Initial Driver Familiarity	Other Considerations
2045 "No-Build"	11.0 / 12.7	None	N/A	Limited	Higher Emissions from Congestion	None	Limited	None	None	N/A	See "Other Considerations Table"
Scenario 1 "Grade-Sep Intersection"	5.0 / 5.3 -55% / -58%	Some R/W & High Utility Impacts	\$63M To \$80M	Significant Increase but Some Limitations	Reduced Emissions. Minimal Adverse Impacts.	Moderate	Significant Increase but Some Limitations	Up to 42% reduction in all crashes.	Limited conflict points. Barrier separation from traffic.	Includes Most Familiar Concepts	See "Other Considerations Table"
Scenario 2 "CFI"	7.5 / 6.9 -32% / -46%	Some R/W but Lower Utility Impacts	\$44M To \$67M	Significant Increase but Minor Limitations	Reduced Emissions. Minimal Adverse Impacts.	Limited	Significant Increase	25% dec. in all crashes. 19% for serious crashes.	No definitive data. Similar to traditional intersection.	No CFIs Currently Exist in VA (1 Under Const.)	See "Other Considerations Table"
Scenario 3 "Grade-Sep Roundabout"	5.3 / 5.5 -52% / -57%	Highest R/W & High Utility Impacts	\$74M To \$93M	Significant Increase	Reduced Emissions. Minimal Adverse Impacts.	Limited	Significant Increase	Increase in crashes but decrease in injury crashes.	General dec. in ped accidents. May not show benefit for bikes.	Roundabouts Becoming More Prevalent	See "Other Considerations Table"

Positive Impact (Varying Degrees)
 Negative Impact

Both Positive & Negative or Limited in Positive / Negative Impact

- 1) Total of an avg. NB & SB US 29 trip through study area
- 2) Exclusive to the Intersection Improvements at US 29 & Hydraulic



Agenda Item 6: Transportation Update Preliminary Recommendation Selection

Project Scenarios	Criteria						
	Total US 29 Travel Time AM / PM (Min) ¹	Potential R/W & Utility Needs	High Level Project Construction Cost	Business Access Impacts	Vehicle Safety Benefit ²	Initial Driver Familiarity	Other Considerations
2045 "No-Build"	11.0 / 12.7	None	N/A	None	None	N/A	See "Other Considerations Table"
Scenario 1 "Grade-Sep Intersection"	3 Points	2 Points	2 Points	Panel Ranking	2 Points	3 Points	See "Other Considerations Table"
Scenario 2 "CFI"	1 Point	3 Points	3 Points	Panel Ranking	1 Point	1 Point	See "Other Considerations Table"
Scenario 3 "Grade-Sep Roundabout"	2 Points	1 Points	1 Point	Panel Ranking	3 Points	2 Points	See "Other Considerations Table"

Scoring Method
 1 – Lowest
 2 – Middle
 3 – Highest

Omitted Columns

- "Connectivity Across US 29" & "Bike / Ped Safety Benefit" – These items are included in the rankings based on the supporting goals.
- "Environmental Impacts" – Each Scenario appears to have comparable benefits.
- "Bike / Ped & Transit Mobility" – This item is included in the rankings based on supporting goals. Transit impacts are anticipated to be similar for all scenarios.

Positive Impact (Varying Degrees)
 Both Positive & Negative or Limited in Positive / Negative Impact
 Negative Impact

1) Total of an avg. NB & SB US 29 trip through study area
 2) Exclusive to the Intersection Improvements at US 29 & Hydraulic



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Agenda item 6: Transportation Progress Update – Other Considerations

Final Discussion of Scenarios and Determination of Preliminary Recommendation



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Agenda item 6: Transportation Update (continued)

Next Steps:

- **Conduct Neighborhood Meeting #2 (this evening)**
- **Update Project Scheduling**
- **Conduct Community Meeting (March 8th)**
- **Relay Feedback from Meetings to Panel**
- **Determine Preferred Recommendation**



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Agenda Item 7: Phase 2 Upcoming Tasks

To be complete by:

- | | |
|--|-------|
| 1) SMART SCALE Application Intake Opens | MAR 1 |
| 2) Present Preliminary Recommendation at Community Meeting | MAR 8 |
| 3) Determine Preferred Recommendation | APR |
| 4) Submit Initial List of Projects to SMART SCALE | APR |
| A) Identify the Needs Met by Submitted Projects | |
| B) Initiate Evaluation of SMART SCALE Criteria | |
| 5) City / County Approval of SMART SCALE Projects | MAY |
| 6) SMART SCALE Application Creation Deadline | JUN 1 |
| 7) Complete SMART SCALE Applications | JUL |
| 8) SMART SCALE Submission Deadline | AUG 1 |



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Agenda Item 8: Panel Open Discussion and Requests for Future Items



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Agenda Item 9: New business and wrap up

Agenda item 10: Adjourn



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