Rt 29 Solutions Hydraulic Planning Advisory Panel

May 10, 2018
Agenda Item 1: Introductions

Hydraulic Planning Advisory Panel members

Technical Team members
Agenda item 2: Public Interaction and Feedback

YouTube Views (Previous Meeting)

April 26, 2018

• YouTube Views: 27
Agenda item 2: Public Interaction and Feedback (continued)

For the period April 26 – May 9, 2018

- None
Agenda item 2: Public Interaction and Feedback (continued)

For the period April 26 – May 9, 2018 Website input

• None
Agenda item 3: Response to Panel feedback

- Provide support to City on Hillsdale Drive access to Kmart site
- Show shared use path accommodations to existing and proposed City trail network
- Explore potential bus stop/pullout locations
- Have VDOT RW review estimates for reasonableness
- Review RW estimates for Scenario 1
- Include proposed Zan Rd grade separation (project D) in Package 3
- Investigate potential benefit of selling abandoned RW
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Agenda item 4: Transportation Progress Update

Progress since last meeting:

• Reviewed Additional Bike/Ped Material from City
• Updated Cost Estimates for all Projects
• Finalized SMART SCALE Packaging
Agenda item 4a: Transportation Progress Update

Transit Update
Agenda item 4a: Transportation Update – Transit

- Proposed statement of intent for Smart Scale application:
  
  “In coordination with CAT and JAUN, the project will seek to include transit improvements such as new or relocated stops, bus shelters and / or route modifications.”

- The technical team will re-engage local transit agencies to discuss opportunities for transit improvements.
Agenda item 4b: Transportation Progress Update

Bicycle and Pedestrian Update
Agenda item 4b: Transportation Update – Bike and Ped
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Agenda item 4b: Transportation Update – Bike and Ped

Hydraulic Road area Trail Plans

GREEN is existing or in process
ORANGE has not yet been designed
Agenda item 4b: Transportation Update – Bike and Ped

Hydraulic Road area Trail Plans

- GREEN is existing or in process
- ORANGE has not yet been designed

- Explore opportunities to enhance current bike/ped offerings between Hillsdale and US 250 with Hillsdale Dr. roundabout project and WB Hydraulic Rd. reconfiguration.
- City proposed ped. connection through culvert under Hydraulic Rd.
- Provide new connection from Hydraulic Rd. to Rivanna Trail and New Ped culvert under Hydraulic Rd.
- Portions of the planned trail system could be included in Angus grade-sep/Hillsdale Extension/WB US 250 ramp relocation project.
Agenda item 4c: Transportation Progress Update

Cost Estimate Updates
Agenda item 4c: Transportation Update – Cost Estimates

Updated Construction Costs
A - (US 29 & Hydraulic Rd.)
$35M - $43M
B - (Roundabout at District Ave.)
$2.9M - $3.5M
C - (Roundabout at Hillsdale Rd.)
$3.6M - $4.4M
Agenda item 4c: Transportation Update – Cost Estimates

Estimated R/W and Utility Cost
R/W – 70,000 sq ft Total: $2.4M - $3M
Utility - $10M - $12M

R/W estimate based on $/sq ft assessment value of each potentially affected parcel.
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Agenda item 4c: Transportation Update – Cost Estimates

Estimated R/W and Utility Cost
R/W Area: 42,000 sq ft
Total: $700K - $800K
Utility: $1.5M - $2M

Estimated R/W and Utility Cost
R/W Area: 43,000 sq ft
Total: $750K - $950K
Utility: $2.5M - $3.5M

R/W estimate based on $/sq ft assessment value of each potentially affected parcel.
Agenda item 4c: Transportation Update – Cost Estimates

**Estimated Construction Cost**
- **D**: $12.5M - $15M
- **E+F+G**: $23M - $28M

**Estimated R/W Cost**
- **D**: $7.5M - $9M
- **E+F+G**: $7.2M - $8.7M

R/W estimate based on $/sg ft assessment value of each potentially affected parcels. Includes estimates of total takes.

**Estimated Utility Cost**
- **D**: $2.5M - $3.2M
- **E+F+G**: $8.5M - $11M

Utility estimates based on percentages of construction cost due to limited available information. 20% - 25% for Zan Rd.
35% - 45% for E+F+G.
Agenda item 5

Proposed SMART SCALE Packaging
Agenda item 5 – SMART SCALE Package 1

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Smart Scale Submission Package 1

<table>
<thead>
<tr>
<th>Projects</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Const.: $78M - $94M</td>
</tr>
<tr>
<td>B</td>
<td>P.E.: $8M - $9M</td>
</tr>
<tr>
<td>C</td>
<td>R/W: $19M - $23M</td>
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<tr>
<td>D</td>
<td>Util.: $25M - $32M</td>
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Package would include remaining funding (approx. $18M) from US 29 / Hydraulic P.E. budget and Hillsdale Ext. project.

Note: Largest Smart Scale project from 2017 in Culpeper District was $27M.

A. US 29 & Hydraulic Rd. Intersection Improvement
B. Hydraulic Rd. & District Ave. Roundabout
C. Hydraulic Rd. & Hillsdale Ave. Roundabout
D. Zan Rd. Grade-Separated Connection
E. Angus Rd. Grade-Separated Intersection and Signalized U-Turn
F. Hillsdale Dr. Connection to Holiday Dr.
G. Relocation of WB US 250 Ramps to Hillsdale Extension
**Agenda item 5 – SMART SCALE Package 2**

**Smart Scale Submission Package 2**

<table>
<thead>
<tr>
<th>Projects</th>
<th>Cost</th>
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<tbody>
<tr>
<td>A Const.</td>
<td>$42M - $51M</td>
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<tr>
<td>B P.E.</td>
<td>$4M - $5M</td>
</tr>
<tr>
<td>C R/W</td>
<td>$4M - $5M</td>
</tr>
<tr>
<td>Util.</td>
<td>$14M - $18M</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>$64M - $79M</strong></td>
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- To include remaining funding (aprx. $8M) from US 29 / Hydraulic PE budget.

*Note: Largest Smart Scale project from 2017 in Culpeper District was $27M.*

A. US 29 & Hydraulic Rd. Intersection Improvement
B. Hydraulic Rd. & District Ave. Roundabout
C. Hydraulic Rd. & Hillsdale Ave. Roundabout
Agenda item 5 – SMART SCALE Package 3

Smart Scale Submission Package 3

Projects               Cost
D                      Const.: $36M-$43M
E                      P.E.: $4M-$5M
F                      R/W: $15M-$18M
G                      Util.: $11M-$14M

TOTAL: $66M-$80M

-To include additional funding (aprx. $10M) remaining from Hillsdale Extension.

Note: Largest Smart Scale project from 2017 in Culpeper District was $27M.

D. Zan Rd. Grade-Separated Connection
E. Angus Rd. Grade-Separated Intersection and Signalized U-Turn
F. Hillside Dr. Connection to Holiday Dr.
G. Relocation of WB US 250 Ramps to Hillside Extension
Agenda Item 5: Phase 2 Upcoming Tasks & Combined Schedule

Next Steps:

• Continued Development of Other Long Term Project Ideas
• Initiate Material Creation for June 1st SMART SCALE Applications
Agenda Item 5: Phase 2 Upcoming Tasks & Combined Schedule

To be complete by:

1) City Council CPA Adoption/SMART SCALE Endorsement — May 7
2) County BOS CPA Adoption/SMART SCALE Endorsement — May 9
3) MPO resolution to support and LRTP Amendment (if req’d) — May 23
4) SMART SCALE Application Creation Deadline — June 1
5) Complete SMART SCALE Applications — July 1
6) SMART SCALE Submission Deadline — August 1
Agenda Item 6: Panel Open Discussion and Requests for Future Items

Agenda Item 7: New business and wrap up

Agenda item 8: Adjourn
Rt 29 Solutions Hydraulic Planning Advisory Panel

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