Agenda item 1: Introductions

Project Delivery Advisory Panel

Technical Team
Agenda item 2: Interaction and Feedback

Live Streaming

<table>
<thead>
<tr>
<th></th>
<th>Sep 8, 2016</th>
<th>Aug 25, 2016</th>
</tr>
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<tbody>
<tr>
<td>Unique Viewers</td>
<td>12</td>
<td>26</td>
</tr>
<tr>
<td>Streams</td>
<td>14</td>
<td>29</td>
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<tr>
<td>Average Minutes per stream</td>
<td>18</td>
<td>47</td>
</tr>
</tbody>
</table>
Agenda item 2: Interaction and Feedback (continued)

For the period Sep 5, 2016 - Oct 2, 2016

Inbox email and phone calls: 9 emails and phone calls

- 1 comment regarding ponding water on Rt. 29 widening
- 3 comments regarding Rt. 29 signal timing
- 1 comment regarding staging of work at Berkmar Bridge
- 1 business person commended project team’s project management
- 1 inquired about improving Rt. 29/I-64 interchange
- 1 inquired about traffic signal impact related to future Woodbrook Elementary School expansion
- 1 commented that final paving at Rio GSI is taking longer than projected
- 1 expressed concern regarding pavement quality in the Rio GSI
Agenda item 2: Interaction and Feedback (continued)

For the period Sep 5, 2016 - Oct 2, 2016 (continued)

Web Provide Input:  1 new posting
• Post removed for inappropriate language
• Suggested need for “Low Clearance” sign at Rio GSI
• Clearance is 16’ 6” and meets all design requirements
• A “Low Clearance” sign is not warranted and will not be installed

Project Hotline 844-220-5540: No calls
Agenda item 3: Report on Panel Feedback

Continuing update on accidents

• May - June 2015 v May - June 2016 included as agenda item 9
Agenda item 4: Panel Feedback and Suggestions for Future Agenda Items

Open Discussion
## Agenda item 5: Construction Milestones

### Status as of Sep 22, 2016

<table>
<thead>
<tr>
<th>Project</th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rio Road GSI</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dec 2, 2016</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Lighting (95%)</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Wall Staining 10%</td>
<td></td>
<td></td>
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<tr>
<td>Landscape &amp; Hardscape 75%</td>
<td></td>
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<tr>
<td>Temp Crossover Removal (60%)</td>
<td>100%</td>
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<tr>
<td>Final Paving (40%)</td>
<td>100%</td>
<td></td>
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<tr>
<td>Punchlist (50%) 80%</td>
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<td></td>
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<tr>
<td><strong>Rt. 29 Widening</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oct 31, 2017</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temporary Signals</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jack &amp; Bore 90%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Gas Relo 100%</td>
<td></td>
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<tr>
<td>Phase 1 paving 100%</td>
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<tr>
<td>Phase 2 Grading, Drainage and Paving (70%)</td>
<td>80%</td>
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<tr>
<td>Phases 3 and 5 Grading, Drainage and Paving (40%)</td>
<td>50%</td>
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</tr>
<tr>
<td><strong>Berkmar</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oct 31, 2017</td>
<td></td>
<td></td>
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<tr>
<td>Pier Construction (95%)</td>
<td>100%</td>
<td></td>
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<tr>
<td>Deck Construction 0%</td>
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<tr>
<td>Steel Girder Erection (33%)</td>
<td>100%</td>
<td></td>
<td></td>
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<tr>
<td>Sanitary Sewer Relocation 100%</td>
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<td><strong>Hillsdale</strong></td>
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<td></td>
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<td></td>
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<td>Oct 31, 2017</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Utility Relocation (85%)</td>
<td>90%</td>
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<td>Partial Building Demolition (70%)</td>
<td>100%</td>
<td></td>
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<tr>
<td>Bridge Substructure 0%</td>
<td></td>
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<tr>
<td>Retaining Wall at Pepsi 0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Roundabout 0%</td>
<td></td>
<td></td>
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</tbody>
</table>

**Under way**

**Complete**

**Late**

( % ) %complete prior reporting period
Rt 29 Solutions

Agenda item 6:  Rt 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection

Work this week
• General punchlist items
• Pavement markings, route shields and raised markers (not able to complete last week due to rain)
• Crosswalk stamping
• Wall staining
• Install electrical service and pull cable at Rio/Berkmar signal
Rio Grade-Separated Intersection (continued)

Significant lane closures this week

- Nighttime lane closures along Route 29 at Rio intersection between 9:00 pm and 6:00 am
Rt 29 Solutions

Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection (continued)

Work next two weeks

• Continue general punchlist items
• Continue crosswalk stamping
• Wall staining
• Pull conductor cable at Rio/Berkmar signal
• Erect signal uprights at Rio/Berkmar signal
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection (continued)

Anticipated significant upcoming lane closures (nighttime)
• Nighttime lane closures along Route 29 at Rio intersection between 9:00 pm and 6:00 am
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening

Work this week

- Slope finishing and seeding
- Grade subgrade
- Base stone installation
- Preparatory grading at Ridgewood Drive
- Asphalt demolition at Towncenter Drive
- Wedging and buildup at Towncenter Drive
- Finalize 8-1, 12-20 jack and bores
- Culvert installations
- Drop inlet top installations
- Jack and bore 11-1, 14-3 to 16-2 (mobilization)
- Underdrain installations
- Curbing
- Signal pole foundations at Ashwood and Hollymead
Rt 29 Solutions

Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening (continued)

Significant lane closures this week (nighttime)

• Route 29 left or right lane closure NB and SB as necessary
Rt 29 Solutions

Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening (continued)

Work next two weeks

• Finalize pond 5
• Complete structures 12-20 and 8-1
• Jack and bore structures 11-1 and 9-2
• Install curb backup material
• Subgrade preparation and undercuts
• Place and grade base stone
• Various culvert installations
• Curb and gutter and median strip concrete
• Install electrical service poles at Ashwood and Hollymead
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening (continued)

Anticipated significant upcoming lane closures (nighttime)
• Route 29 left or right lane closure NB and SB as necessary
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended

Work this week

• Erosion control maintenance
• Box out grading
• Spillways for ponds 6, 7, 8
• Construct access road for abutment A
• Fine grading and placing stone north of river
• Continue overhang installation
• Fabricate edge forms
• Abutments A backwall pour
• Abutment B MSE panel installation
• Pond 5 outfall
• Complete ponds 7 and 8 structure installation
• Seeding
• Trenching and light pole foundations at Hilton Heights and Towncenter
• Electrical service foundations at Hilton Heights and Towncenter
Berkmar Stormwater Management Basin
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Significant lane closures this week

- Flagging operation along Rio Mills Road as necessary
Rt 29 Solutions

Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Work next two weeks

- Erosion control maintenance
- Box out grading
- Fine grading
- Stone placement for sub-base
- Sort form liners
- Abutment A diaphragms and backwall pour
- Abutment B MSE panel installations
- Permanent seeding
- Ponds 7 and 8 drainage structures
- Begin stay-in-place form installation
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Anticipated upcoming significant lane closures

• Flagging operation along Rio Mills Road as necessary
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended

Work this week

• Storm drain work at Seminole Square
• Complete sanitary main at Abutment A
• Abutment A bridge grading
• Stormwater basin excavation just north of Greenbrier

Significant lane closures this week

• None
Rt 29 Solutions

Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended (continued)

Work next two weeks

• Dominion VA Power scheduled to splice new connections
• Comcast to begin splicing after Dominion completes
• Various drainage structure installations
• Pile installations for Abutment A
• Stormwater basin excavation just north of Greenbrier

Anticipated upcoming significant lane closures

• None
## Agenda item 7: Project Safety

### OSHA Recordable Log

<table>
<thead>
<tr>
<th>Number</th>
<th>Segment</th>
<th>Type</th>
<th>Employee Name</th>
<th>Craft</th>
<th>Incident Date</th>
<th>Supervisor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yard</td>
<td>Recordable</td>
<td>Foreman</td>
<td></td>
<td>2015.09.15</td>
<td>Foreman</td>
<td>Torn right forearm supinator while moving message board</td>
</tr>
<tr>
<td>2</td>
<td>Rio Road</td>
<td>Recordable</td>
<td>Foreman</td>
<td></td>
<td>2015.12.06</td>
<td>Foreman</td>
<td>Altercation, employee fell hitting his head on pavement</td>
</tr>
<tr>
<td>3</td>
<td>Berkmar</td>
<td>Recordable</td>
<td>Foreman</td>
<td></td>
<td>2015.12.30</td>
<td>Skilled Laborer</td>
<td>Slipped on slope causing a sprained ankle</td>
</tr>
<tr>
<td>4</td>
<td>Rio Road</td>
<td>Recordable</td>
<td>Skilled Laborer</td>
<td></td>
<td>2016.02.23</td>
<td>Skilled Laborer</td>
<td>Slipped on fin board, fell on his knee</td>
</tr>
<tr>
<td>5</td>
<td>Yard</td>
<td>Recordable</td>
<td>Boom Truck Operator</td>
<td></td>
<td>2016.04.13</td>
<td>Skilled Laborer</td>
<td>Pinched finger between H-Pile</td>
</tr>
<tr>
<td>6</td>
<td>Rio Road</td>
<td>Recordable</td>
<td>Laborer</td>
<td></td>
<td>2016.06.16</td>
<td>Laborer</td>
<td>Struck in neck by a 4x4x1 that fell approx. 20'</td>
</tr>
<tr>
<td>7</td>
<td>Berkmar</td>
<td>Recordable</td>
<td>Carpenter</td>
<td></td>
<td>2016.06.24</td>
<td>Laborer</td>
<td>Pulled muscle while carrying tools and walking up slope</td>
</tr>
<tr>
<td>8</td>
<td>29W</td>
<td>Recordable</td>
<td>Laborer</td>
<td></td>
<td>2016.09.01</td>
<td>Laborer</td>
<td>Pinched finger between jack hammer and shoring</td>
</tr>
</tbody>
</table>

- 0 Lost time accidents
- 368,700 Manhours thru 8.31.16
- 4.34 Incident rate
- 0.00 Lost time rate
Agenda item 8: Rt 29/250 Enhanced Landscaping Contract

- Oct 20, 2016: Open bids
- Oct 22: Complete bid evaluation
- Oct 24 (week of): Award contract (without protest period)
- Nov 7 (week of): Award contract (with protest period)
- Spring 2017: Install landscaping
Agenda item 9: Accident Report Update (based on reported accidents)

- **May - June 2015**: 9 crashes; 3 injuries
- **May - June 2016**: 16 crashes; 2 injuries
Agenda item 9: Accident Report Update (based on reported accidents)

May - June 2015: General accident locations
Agenda item 9: Accident Report Update (based on reported accidents)

May - June 2016: General accident locations
# Route 29 Solutions

## Agenda item 10: Budget Update

<table>
<thead>
<tr>
<th>Construction Contracts</th>
<th>Original Construction Contract Value</th>
<th>Expended (Invoiced)</th>
<th>Approved Change Orders</th>
<th>Exposure (Anticipated COs)</th>
<th>Remaining CV</th>
<th>Total Anticipated Construction Expenditures at Completion</th>
<th>Total SYIP Allocations for Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rt. 29 Solutions</td>
<td>$116,746,000</td>
<td>$86,789,028</td>
<td>$10,067,180</td>
<td>$1,300,000</td>
<td>$40,024,152</td>
<td>$128,113,180</td>
<td>$155,775,000</td>
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<tr>
<td>Change from Aug</td>
<td>$6,042,278</td>
<td>$8,316,230</td>
<td>($6,883,696)</td>
<td>$2,273,952</td>
<td>$1,432,534</td>
<td>$0</td>
<td>$0</td>
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<tr>
<td>Rt. 29/250 Interchange (2)</td>
<td>$11,121,078</td>
<td>$12,117,184</td>
<td>$168,283</td>
<td>$800,320</td>
<td>($827,823)</td>
<td>$12,089,681</td>
<td>$14,632,000</td>
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<td>Change from Aug</td>
<td>$297,200</td>
<td>$59,067</td>
<td>($59,067)</td>
<td>($238,133)</td>
<td>$0</td>
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<td>Adaptive Signals</td>
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<td>$2,349,605</td>
<td>$125,000</td>
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<td>$1,495,395</td>
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<tr>
<td>Change from Aug</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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<tr>
<td>Hillsdale Extended</td>
<td>$11,451,492</td>
<td>$315,915</td>
<td>$0</td>
<td>$573,000</td>
<td>$11,135,577</td>
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<td>Change from Aug</td>
<td>$16,219</td>
<td>$0</td>
<td>$0</td>
<td>($16,219)</td>
<td>$0</td>
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<tr>
<td><strong>Totals</strong></td>
<td><strong>$143,038,570</strong></td>
<td><strong>$101,571,732</strong></td>
<td><strong>$10,360,463</strong></td>
<td><strong>$2,723,320</strong></td>
<td><strong>$51,827,301</strong></td>
<td><strong>$156,122,353</strong></td>
<td><strong>$185,025,000</strong></td>
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<td>Change from Aug</td>
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<td><strong>$8,375,297</strong></td>
<td><strong>($6,942,763)</strong></td>
<td><strong>$2,019,600</strong></td>
<td><strong>$1,432,534</strong></td>
<td><strong>$0</strong></td>
<td><strong>$0</strong></td>
</tr>
</tbody>
</table>

1. Rt. 29 Solutions Design-Build Exposure includes $1,300,000 potential incentive for overall DB program on-time completion.
2. Rt. 29/250 Interchange Exposure includes anticipated final payment.
Agenda item 11: Signal Timing Adjustments Update

Left turn, Rio WB to Rt 29 SB

• 4 seconds added to AM peak
• Mid-day peak period unchanged
• 2 seconds added to PM peak
• 5 seconds added to off-peak period
Plan for collecting Rt 29 traffic counts

- **Schedule:** Oct 11 - 13  
  Oct 18 - 20 (backup dates)

- **Locations:**  
  Mainline Rt 29, through counts  
  Rio - Rt 29 local lanes, all turning movements  
  Woodbrook - Rt 29, all turning movements  
  Fashion Sq (29th Place) - Rt 29, all turning movements
Agenda item 13: Adjourn
Rt 29 Solutions Project Delivery Advisory Panel

October 6, 2016