



*Woodrow
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Woodrow Wilson Bridge Project

REVIEW OF NOISE ABATEMENT PLAN

June 25, 2007



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Partnership





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General Engineering Consultant Potomac Crossing Consultants

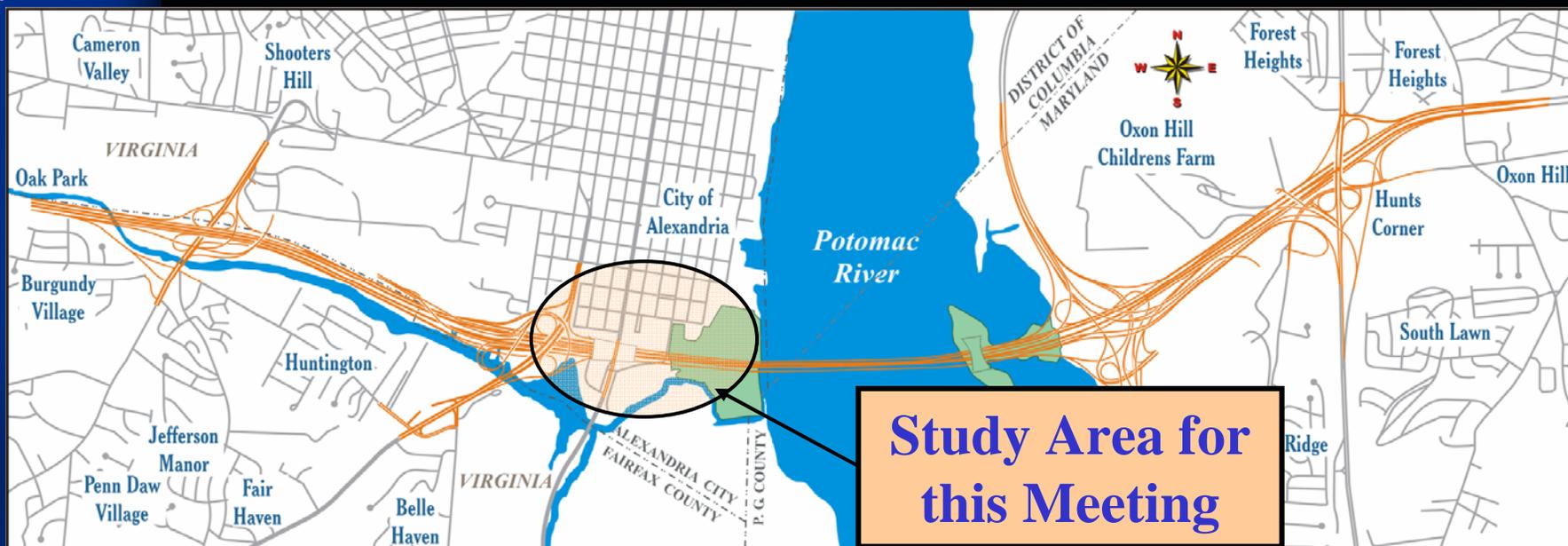
General Engineering Consultant (GEC) Joint Venture

- **Parsons Brinckerhoff**
- **URS Corporation**
- **Rummel Klepper & Kahl**
- **13 Active Subconsultants (8 DBE's)**



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Overall Project Limits



Telegraph
Road

US Route 1

River Crossing

I-295

MD-210



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**View of the Virginia Approach Spans, looking east
from Washington Street Deck, July 17, 2006**



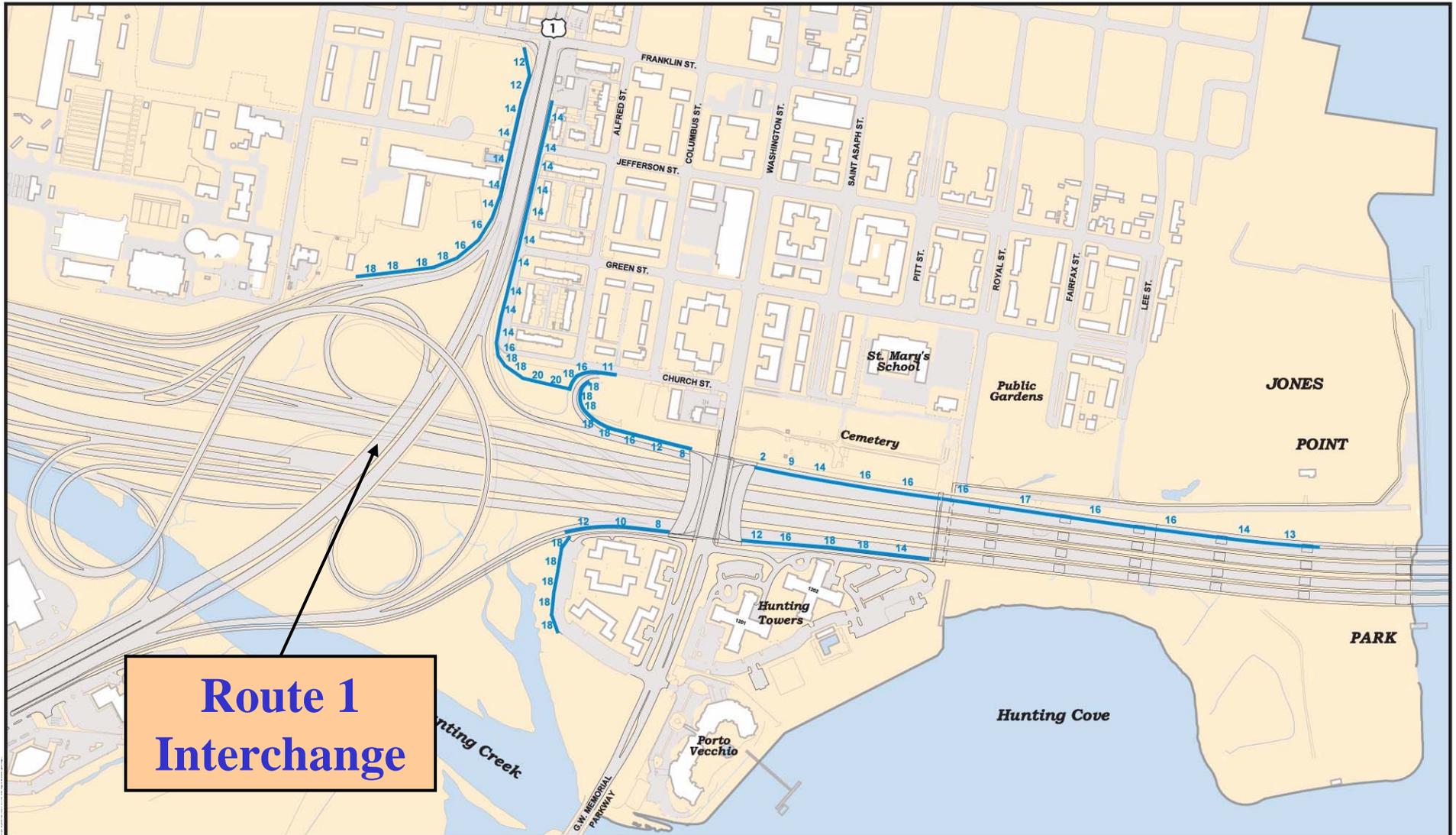
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View looking south at the U.S. Route 1 Interchange



Noise Barriers from Route 1 to the River





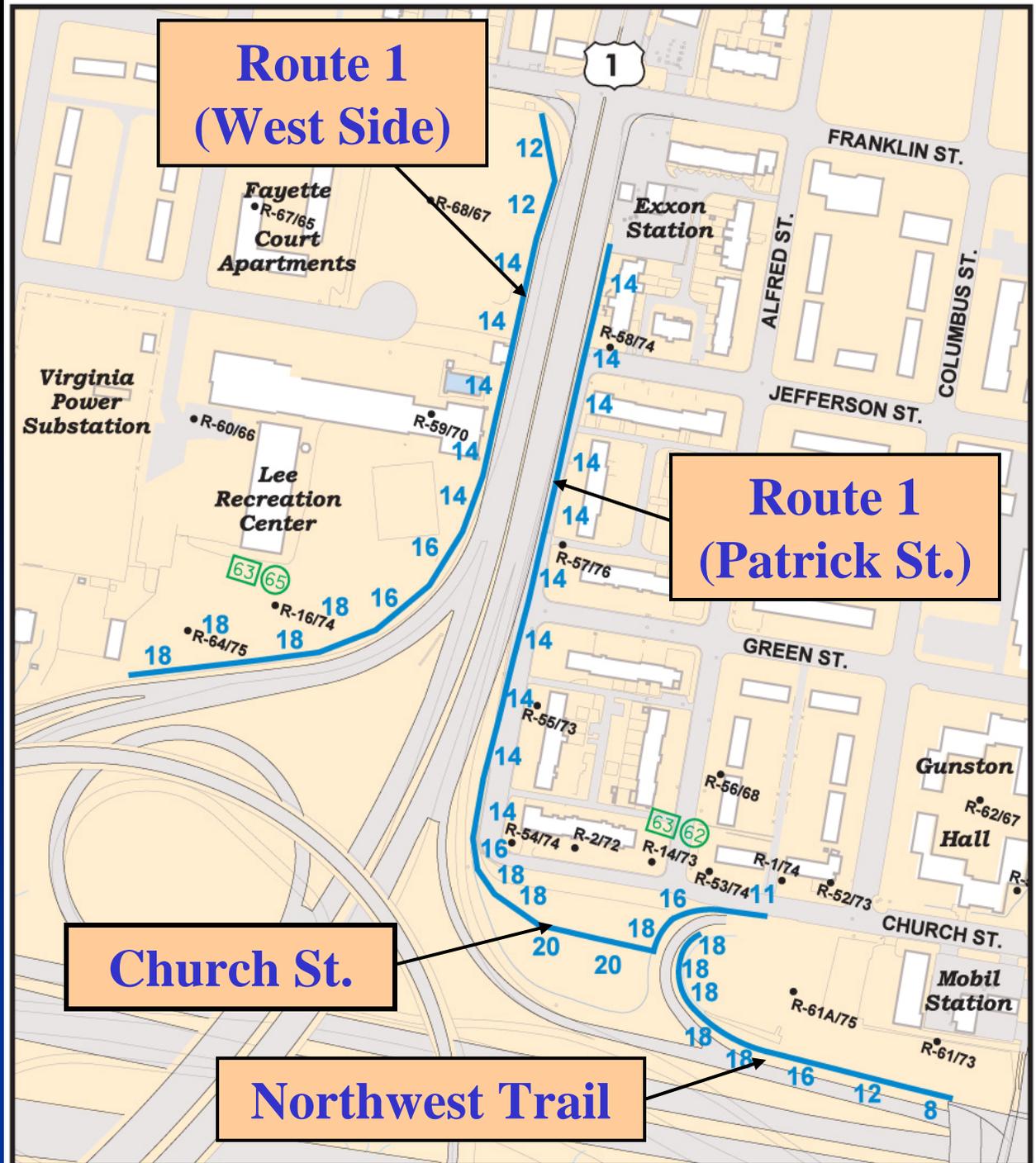
Noise Analysis Process

- **Verify land use and potential noise sensitive areas**
- **Establish noise measurement locations**
- **Complete ambient noise measurements**
- **Use FHWA Traffic Noise Model (TNM) computer modeling to establish the Existing, No-build and Build conditions**
- **Determine traffic noise impacts – 66 dBA or 10 dBA increase over existing**
- **If impacts exist, determine if there are feasible and reasonable measures that will abate the impacts**
- **Present results to VDOT Noise Abatement Committee**
- **Incorporate recommended abatement into construction documents**



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Noise Barriers: Route 1 (West Side and Patrick Street), Church Street, and Northwest Trail (Freedmen's Cemetery Park)





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View looking northwest across Route 1 toward Lee Center



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View looking south down Patrick Street



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Close-up of Patrick Street wall showing brick coloring process



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View looking west along Church Street



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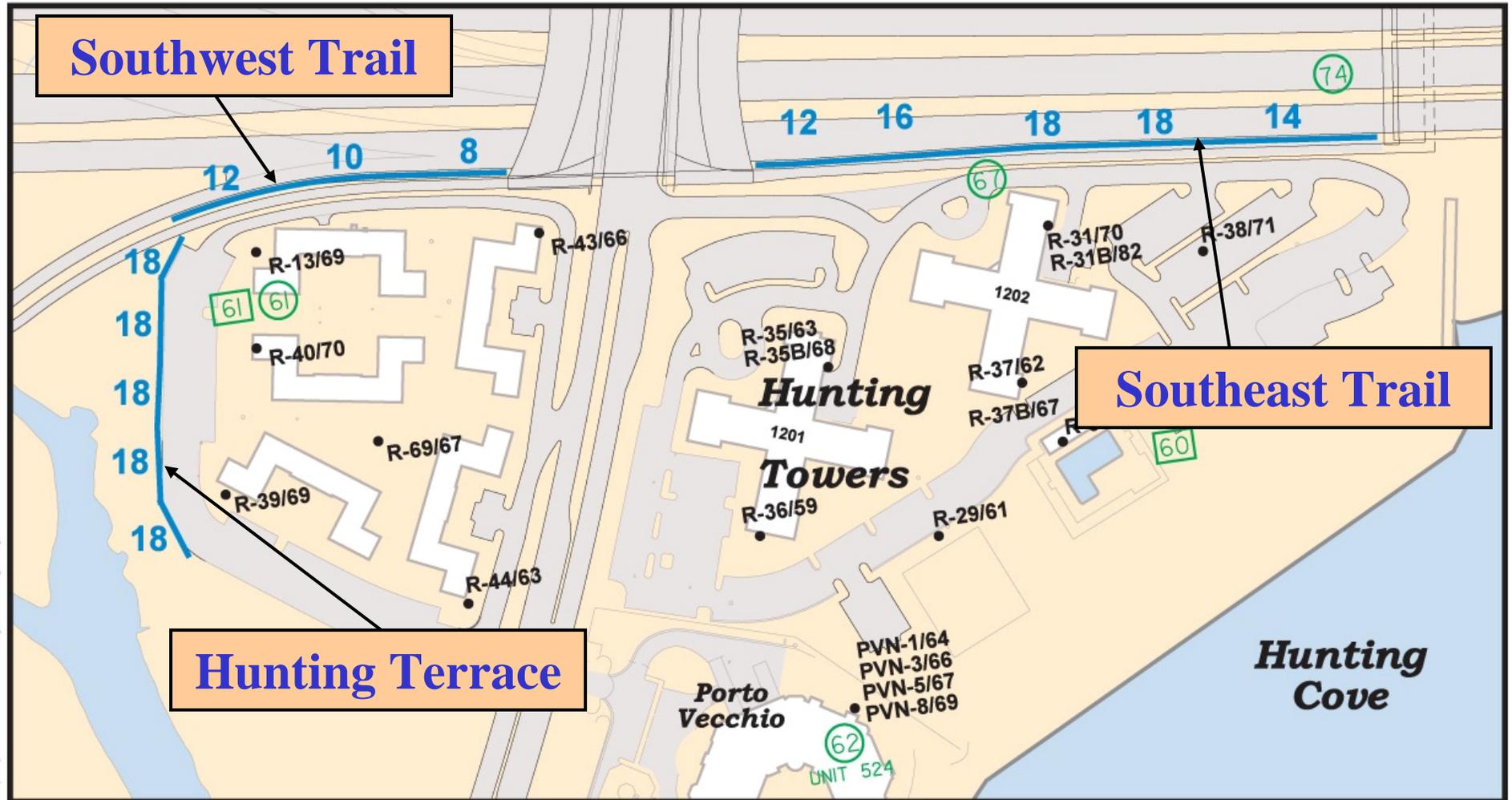


**View looking northwest across deck toward Freedmen's Cemetery
Park noise barrier**



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Southeast Trail, Southwest Trail, and Hunting Terrace Barriers





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View looking northwest at barrier along Hunting Terrace parking lot



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View looking west along Southwest Trail barrier for Hunting Terrace



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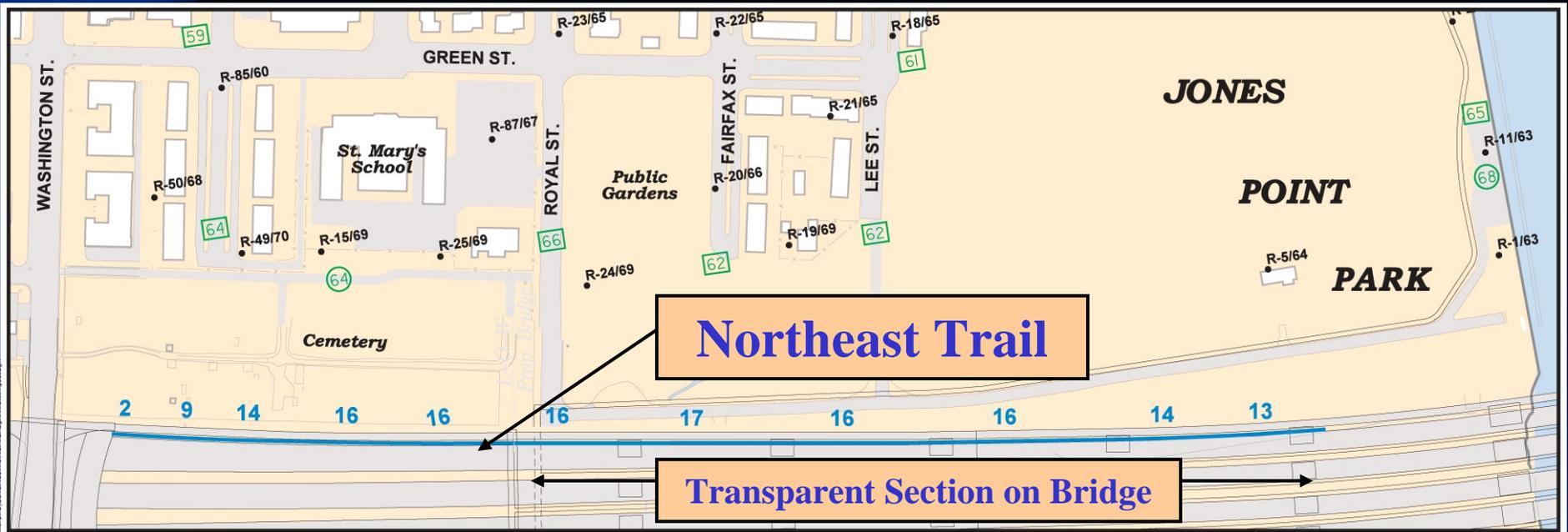


View looking east at Southeast Trail barrier for Hunting Towers



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Northeast Trail Barrier





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View looking southeast at Northeast Trail barrier by St. Mary's



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Artist's rendering looking west along transparent barrier on bridge