VIRGINIA RAILWAY EXPRESS CRYSTAL CITY STATION EXPANSION CONTRIBUTES TO ECONOMIC DEVELOPMENT

APTA Rail Conference

VRE

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•	VRE OVERVIEW
	PURPOSE & NEED
	SITE SELECTION
-	STATION DESIGN
	COLLABORATION
	DISCUSSION

VRE OVERVIEW

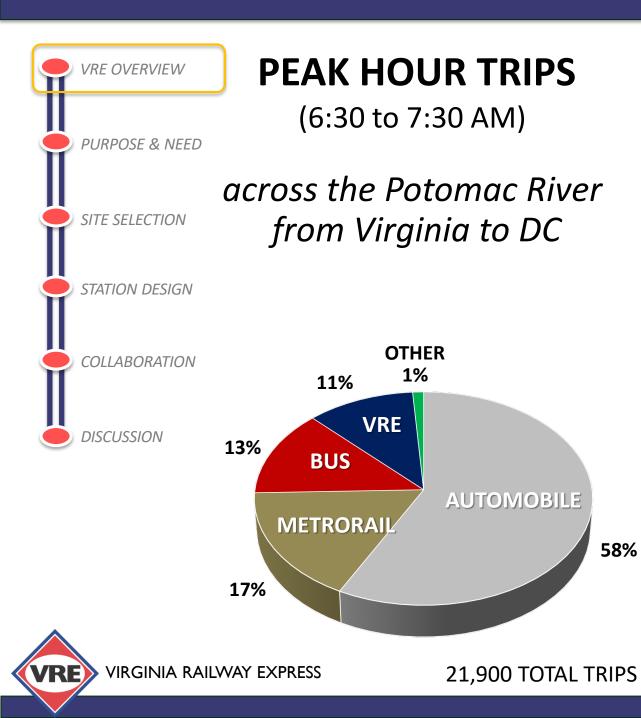
A commuter rail system running on existing railroad tracks

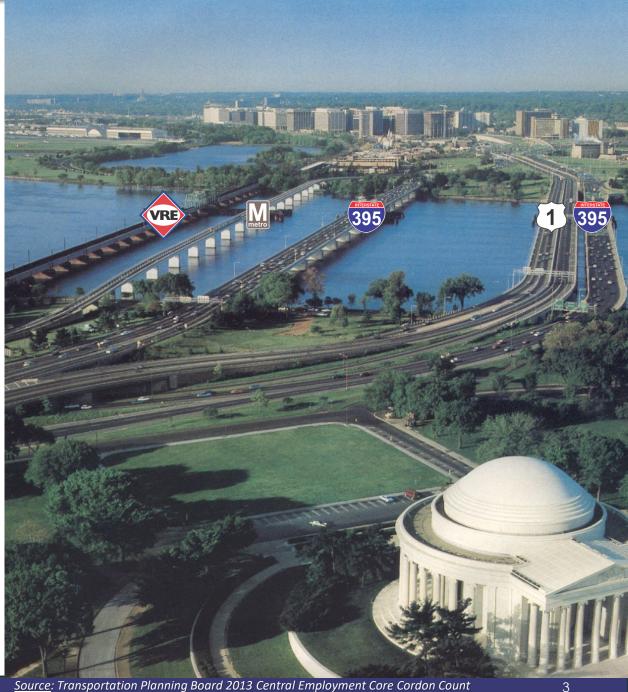
Serving Washington, D.C. and Northern Virginia carrying long-distance commuters to DC, Arlington and Alexandria

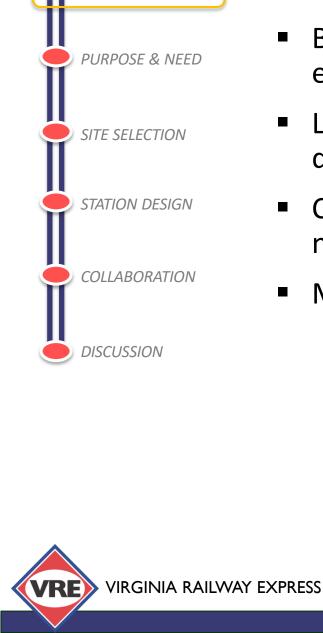
Two lines, 96 miles adding peak capacity to I-95/I-395 and I-66 corridors*

20,000 daily passenger trips that commuters otherwise would have taken alone in cars*









VRE OVERVIEW

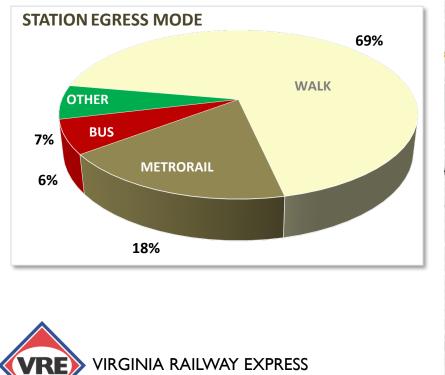
VRE OVERVIEW

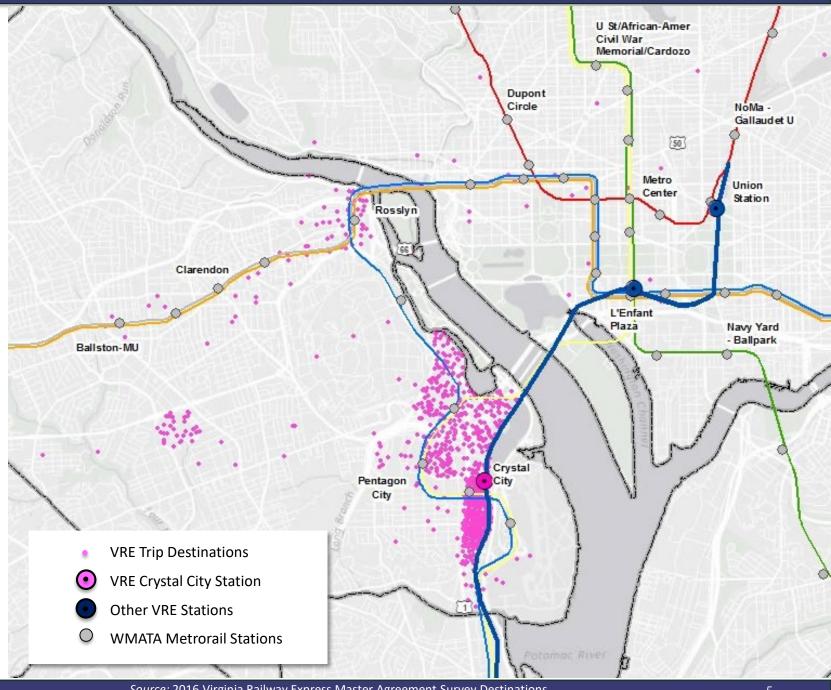
- Busiest origin stations are at the end of the lines
- L'Enfant Station is our busiest destination station
- Crystal City and Union Station are next busiest destination stations
- Most VRE riders:
 - Work for the government
 - Ride five days per week

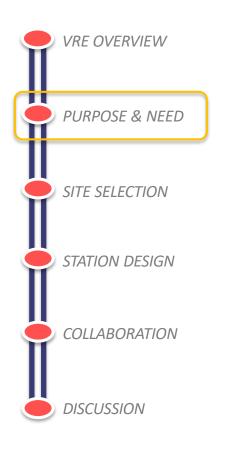


CRYSTAL CITY RIDER DESTINATIONS

- Crystal City
- Pentagon City & Pentagon
- Arlington & DC







PURPOSE AND NEED

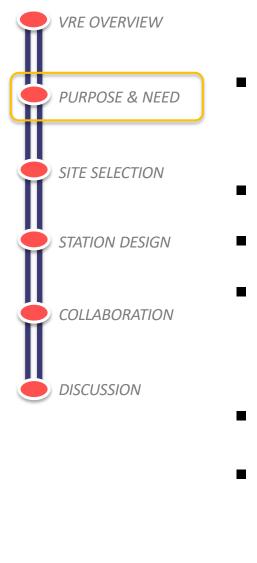
- One of our **busiest** stations with the **shortest** platform and **one** entrance
- Reduce platform crowding and train dwell time
- Improve passenger safety & convenience
 Side platform served by one track
- Improve operational flexibility
- Support future bidirectional service
- Declining ridership and hidden location
- Improve visibility & multimodal connectivity
- Support Crystal City sector plan
- Potential walkway to airport







VR



DESIGN OBJECTIVES

- New island platform between Tracks 2 & 3
 - Serve 8-10 cars
 - Two grade-separated access points
- Not preclude a new 4th mainline track
- Stay within existing railroad right-of-way
- Enhance local & regional connectivity
 - Metrorail, Metroway, Buses, Shuttles
 - Bicycle and walk access
- Support Crystal City's vision for growth
- Build a sustaining relationship with the community

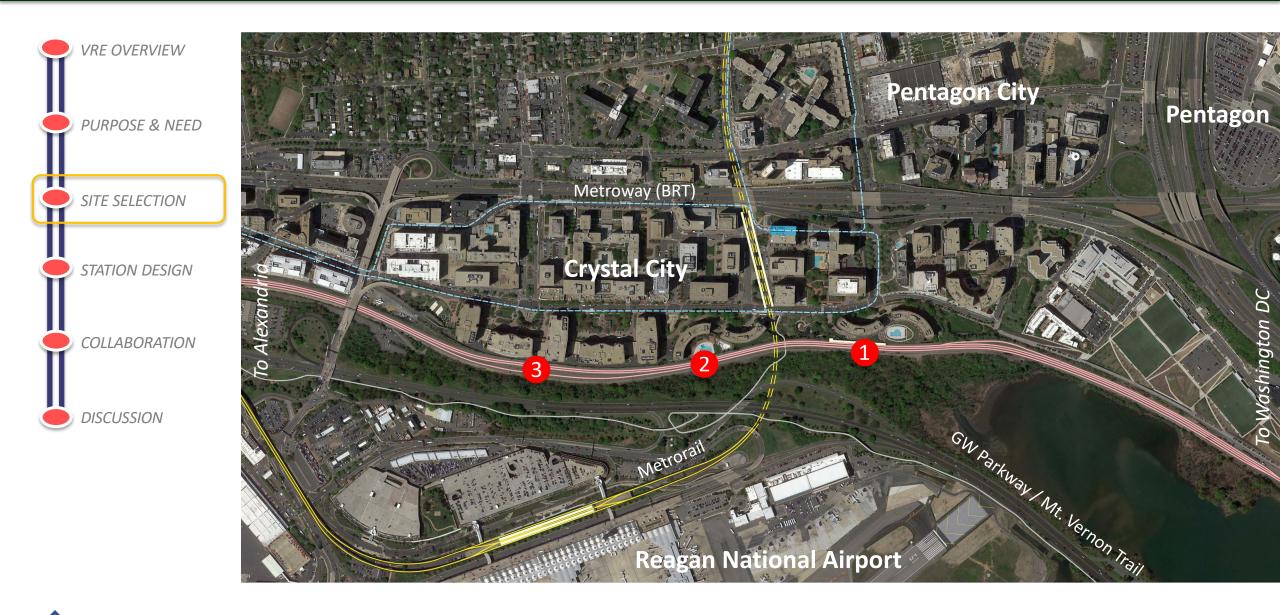


FACTOR	DEFINITION	MEASURES
Local Transportation Connections	Proximity to jobs, residences, and bicycle network	 Jobs within 1/2 mile from center of platform VRE rider destinations within 1/2 mile from center of platform Residents within 1/2 mile from center of platform Distance to bicycle network from closest point on station platform
Regional Transportation Connections Community and Environmental Impacts	Proximity to Metrorail and Metroway Changes to Existing Conditions (Built and Natural environment)	 Distance to existing Metrorail station entry from closest point on platform Distance to expected new Metrorail station entry from closest point on platform Number of street crossings to existing Metrorail station Distance to Metroway station from closest point on station platform Noise and Vibration impacts to sensitive receptors Property acquisition impacts to residential property Impacts to Historic, Cultural, and/or Recreational resources Impacts to Visual Resources Impacts to water resources and floodplains
Major Cost Elements	Anticipated cost relative to other options	 Length of track relocation Grade-separated Access to the local roadway network Construction Sequencing Impacts to Railroad Infrastructure No. of Culverts

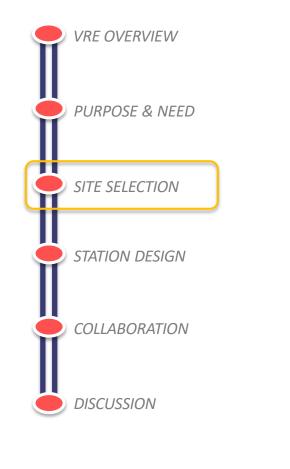
NOTE: Economic Development and Land Use Benefits were not Ranked



EVALUATION FACTORS



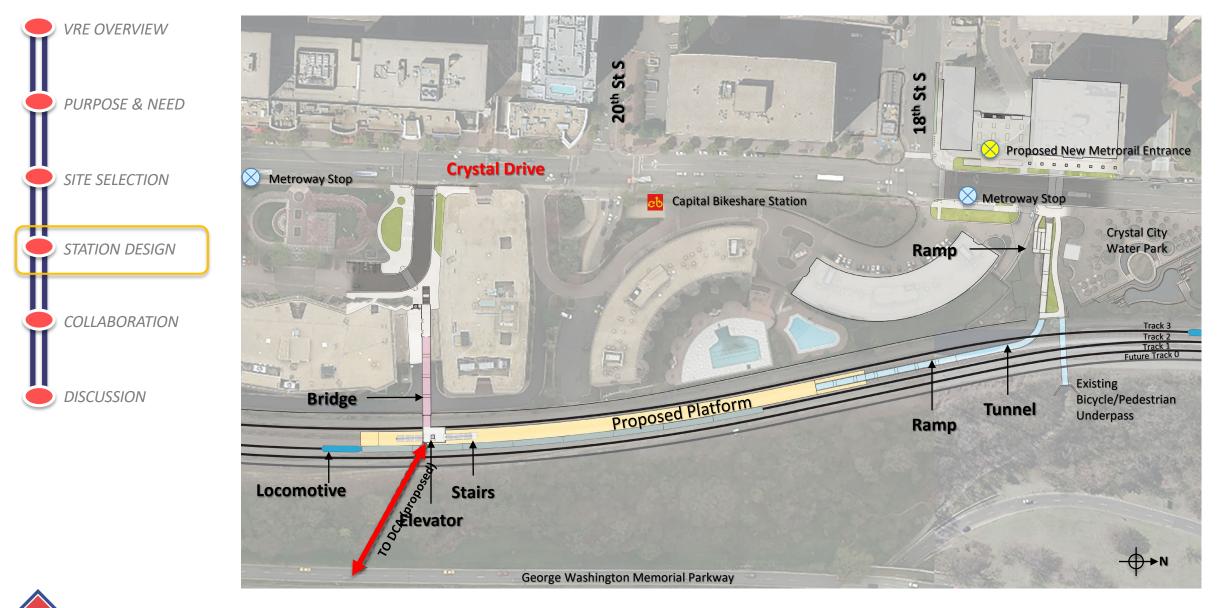




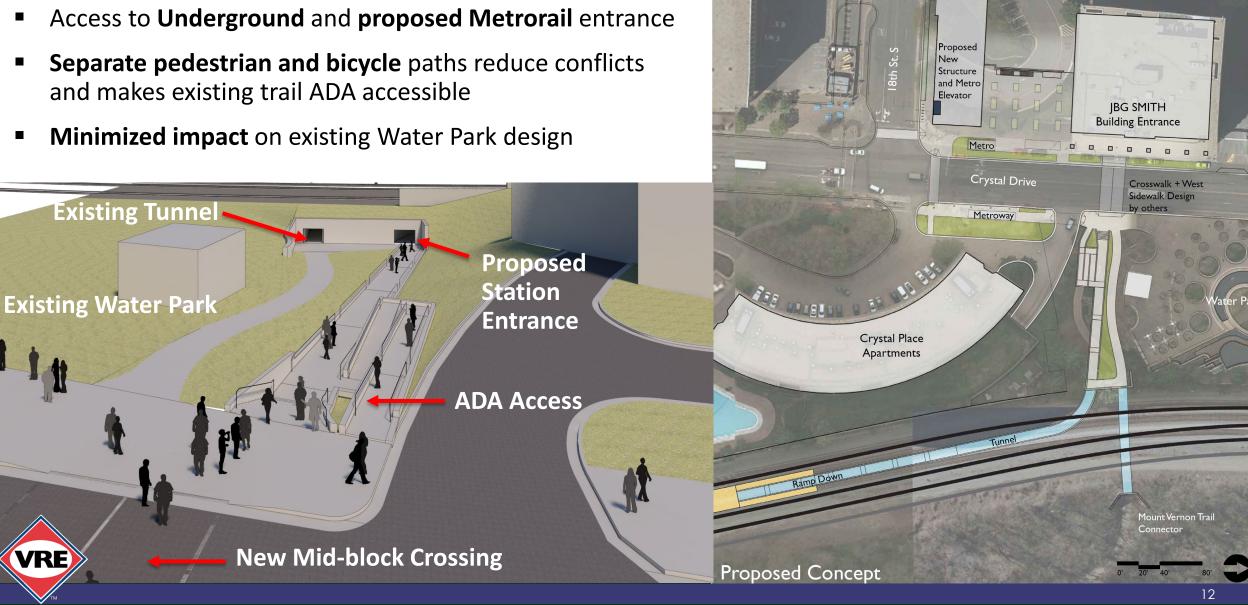
SUMMARY OF RANKINGS

EVALUATION FACTOR	OPTION 1	OPTION 2	OPTION 3
Local Transportation Connections	0	•	ſ
Regional Transportation Connections		•	0
Community and Environmental Impacts		(ſ
Major Cost Elements	•	(0
OVERALL RATING			0
Legend:	High	Medium	O Low





CONCEPT DESIGN – PREFERRED SITE



NORTH ENTRANCE

- Proposed mid-block crossing across Crystal Drive aligns with paths to VRE station and Mount Vernon trail
- Access to **Underground** and **proposed Metrorail** entrance
- Separate pedestrian and bicycle paths reduce conflicts and makes existing trail ADA accessible
- **Minimized impact** on existing Water Park design

VRE

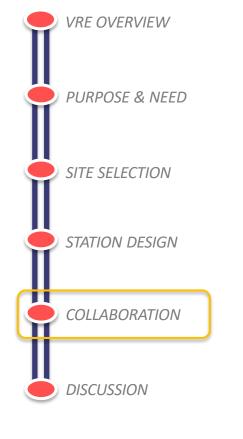
- Elevated covered walkway to terrace
- **Stairs** to street/platform level; **ADA** accessible by elevators;
- Path aligns with existing crosswalk across Crystal Drive
- Parking removed and driveway narrowed for wider walkway





ADA Access

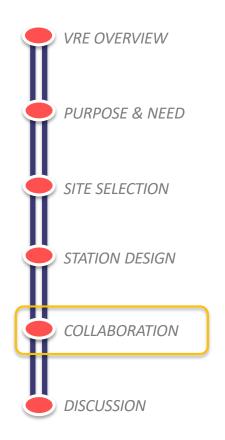
Station Entrance







PROPOSED WALKWAY TO AIRPORT





Community Outreach:

- Public Events 2017 and 2018
- VRE Rider Survey
- VRE Operations Board
- Arlington County Board and Commissions

Technical Advisory Group:

- ✓ Arlington County Staff
- ✓ JBG-Smith / Vornado
- ✓ Equity Residential
- ✓ Crystal City Civic Association
- ✓ Crystal City BID
- ✓ MWAA
- ✓ National Park Service
- ✓ WHS Transportation (Pentagon)
- ✓ CSXT (host railroad)
- ✓ FRA & FTA
- ✓ VA Dept. of Rail & Public Transportation



