NVTC COMMISSION MEETING THURSDAY, JUNE 3, 2004 8:00 P.M.

NVTC CONFERENCE ROOM

AGENDA

1. A. Oath of Office For New Commissioner.

Speaker Howell has written to NVTC informing the commission of his appointment of four members of the House of Delegates to serve on NVTC. Delegates Albo and Reese will continue. Delegate Tim Hugo will join NVTC on July 1, 2004. Delegate Adam Ebbin will be sworn in at this meeting. All will serve through their current terms of office.

<u>Recommended Action:</u> Chairman Euille will administer the oath of office to Delegate Ebbin.

B. Minutes of NVTC's Meeting of May 6, 2004.

Recommended Action: Approval.

2. NVTC By-Laws Amendment.

The commission should amend its by-laws to conform to the new procedures included in HB 1231. Discussion is required at one meeting followed by action at a subsequent meeting.

Discussion Item.

3. NVTC Policy on Prevention of Fraud and Other Improprieties.

NVTC should adopt a policy similar to that being adopted for VRE.

Recommended Action: Approve proposed policy.

4. WMATA Items.

- A. Metro Board Digest for May, 2004.
- B. WMATA FY 2005 Operating and Capital budget.
- C. Pike Transit Initiative.
- D. Railcar Deployment Plan.

<u>Recommended Action:</u> Authorize NVTC's Chairman to submit comments on the WMATA budget to the WMATA Board on behalf of the commission.

5. Legislative Items.

- A. Review of 2004 General Assembly Session and Prospects for 2005.
- B. No Bus Fare Buydown Funds in Six-Year Program.
- C. Federal Legislation

<u>Recommended Action:</u> Authorize a letter to Secretary Clement supporting a continuation of \$800,000 annual funding of bus fare buydowns in Northern Virginia.

6. Additional Funding for Regional SmarTrip Farebox Consulting.

Given the extended delays in installing fareboxes, the provision of an entirely new software package by Cubic and ongoing needs to integrate with ERG's regional clearinghouse work, additional funding for technical consulting is needed. DRPT will be asked to provide it.

Recommended Action: Authorize a contract modification with IBI Group.

7. Forecasts of Yields of NVTC's Two Percent Motor Fuels Tax.

Alternative yields are shown, depending on the price of gas in Northern Virginia.

Discussion Item.

8. Dedicated Sources of Transit Funding in other Jurisdictions.

Commissioners requested further information about sources of dedicated transit revenues.

Discussion Item.

9. Regional Transportation Items.

- A. Status of NVTA Northern Virginia Transportation Plan Update.
- B. Highlights of VTA's Spring Conference.
- C. NVTC Op-Ed Article Re Dulles Corridor Metrorail Extension
- D. Public Transit Favorable Ratings Increase
- E. Transit Investment Worth Its Weight in Real Estate.
- F. Brookings Institution Discussion on Still Stuck in Traffic.
- G. ITS in Transit Wins Thumbs Up.

Discussion Item.

10. NVTC's September 2, 2004 Meeting in Alexandria.

As part of the celebration of NVTC's 40th anniversary, the September 2nd NVTC meeting will be held in the City Council chambers in Old Town Alexandria. The meeting will be formatted to encourage public participation and will feature the 20th anniversary of DASH.

Information Item.

11. NVTC Financial Report for April, 2004.

Also provided is a response letter to NVTC's auditors regarding recommendations for FY 2003 and a schedule for completing NVTC's FY 2004 audit.

Information Item.

12. VRE Items.

- A. Report from the VRE Operations Board (including minutes of the meeting of May 21, 2004) and the Chief Executive Officer -- <u>Information Item.</u>
- B. 25 Millionth VRE Passenger Ceremony -- Information Item.
- C. Prince William County Parking Improvements -- <u>Action Item/</u> <u>Resolution #1019.</u>
- D. Manassas Airport Authority Parking Improvements -- <u>Action Item/</u> <u>Resolution #1020.</u>
- E. Lease of Warehouse for Spare Parts at Manassas Airport -- Action Item/Resolution #1021.
- F. Construction Contract for Quantico Creek Bridge -- Action Item/Resolution #1022.
- G. Quantico Bridge Dominion Virginia Power Agreement -- <u>Action Item.</u> <u>Resolution #1023.</u>
- H. Definition of VRE Operating Ratio -- Action Item/Resolution #1024.
- Additional Contract Authority for Sounder Rolling Stock --Action Item/Resolution #1025.
- J. Qualification and Repair of Gallery Railcars-- <u>Action Item/Resolution</u> #1026.
- K. Phase 2 VRE Strategic Plan -- Action Item/Resolution #1027.
- L. Contract Amendment for Overhaul of Additional Head-End Power Units -- Action Item/Resolution #1028.
- M. Contract for Marketing, Advertising and Public Relations -- Action Item/Resolution #1029.

- N. VRE's 2003 Annual Report Information Item.
- O. VRE Fraud Policy -- Information Item.
- P. Commuter Weekly Feature on NVTC <u>Information Item.</u>
- Q. Extension of Operating Agreement with CSXT -- Action Item/Resolution #1030.
- R. Closed Session on Legal Matters Pertaining to Negotiations of a New Operating Agreement with CSXT (Section 2.2-3711A.7 of the <u>Code of Virginia</u>).

NOTE: NVTC's July 1, 2004 meeting will begin at **6:30** P.M. A barbeque supper will be available beginning at 6:00 P.M. There will be no executive committee meeting.

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Rick Taube

DATE: May 27, 2004

SUBJECT: Oath of Office for New Commissioner

Chairman Euille will administer the following oath to Delegate Adam Ebbin, who was appointed to NVTC by Speaker Howell:

I do solemnly swear that I will support the Constitution of the United States and the Commonwealth of Virginia and that I will faithfully discharge all the duties incumbent upon me as a member of the Northern Virginia Transportation Commission, according to the best of my ability.

Speaker Howell also appointed Delegate Tim Hugo, effective July 1, 2004, as the fourth delegate to serve on NVTC, together with Delegates Ebbin, Albo and Reese. HB 1231, passed in this year's General Assembly session, increased the number of delegates serving on NVTC to four from three.

MINUTES NVTC COMMISSION MEETING – MAY 6, 2004 NVTC CONFERENCE ROOM - ARLINGTON, VIRGINIA

The meeting of the Northern Virginia Transportation Commission was called to order by Chairman Euille at 8:12 P.M.

Members Present

Sharon Bulova
Gerald Connolly
William D. Euille
Paul Ferguson
Jay Fisette
Ludwig Gaines
Catherine M. Hudgins
Dana Kauffman
Elaine McConnell
Karen Rae (DRPT)
David F. Snyder
Mary Margaret Whipple

Members Absent

David Albo
William C. Mims
Gary A. Reese
Scott Silverthorne
Mick Staton
Christopher Zimmerman

Staff Present

Rhonda Gilchrest Scott Kalkwarf Steve MacIsaac (VRE) Adam McGavock Mark Roeber (VRE) Jennifer Straub (VRE) Richard K. Taube Dale Zehner (VRE) Chairman Euille suggested beginning the meeting with discussion items while waiting for a quorum. There were no objections.

Regional Sources of Funding for Metro Matters and VRE Capital Needs

Mr. Taube explained that commissioners asked staff to assemble information about the revenue yield of various sources of funding that might be available to support WMATA's Metro Matters needs as well as those of the other transit systems in the region. The estimates are based on dated materials done by TPB so if the commission wanted it updated, it could ask the TPB consultant to update the information. Chairman Euille stated that in light of the state's budget and the expected funding shortfalls for the region, there should be the understanding that it is important to identify funding for transit as well as other regional transportation needs.

Mrs. Hudgins stated that it would be helpful to compare other major transit systems and their funding sources. Mr. Taube offered to provide this information.

Commissioners talked about the approach NVTC wants to take with this information. Mrs. Bulova stated that local jurisdictions and other regional bodies should be included in a request to TPB to update the earlier estimates of yields from various revenue sources.

Mr. Fisette arrived at 8:20 P.M.

Mrs. Whipple stated that for a regionwide tax, there should be flexibility so that each state wouldn't necessarily need to do the identical tax. Mr. Connolly stated that Maryland is particularly sensitive to this issue.

Mrs. Whipple stated that her bill which would have increased the Northern Virginia gasoline tax from two to four percent passed the Senate during the recent General Assembly session and she expressed her hope that it can get through both Houses next year.

Mr. Kauffman joined the discussion at 8:24 P.M.

Ms. Rae stated that the way state funding flows for transit and transportation funding, the state relies on the local planning documents (TIP's). For VRE and WMATA, since the TIP's are constrained at the local level, the statewide needs do not include all VRE and WMATA needs. She stated that another dynamic is that if these needs are rolled in, the statewide capital program matching ratio drops from a 40 percent state share to 12 percent. This could put smaller transit systems out of business.

Status of NVTC FY 2005 State Grant Requests

Mr. Taube reported that the FY 2005 state budget should be approved tomorrow. Less funds are now projected to be available in the Mass Transit Trust Fund as a result of most FRAN debt service not being paid out of the general fund as was previously thought. In addition, the budget would not provide an additional revenue sources for transit purposes. As a result, operating assistance is expected to be 1.7 percent less than previously projected, although the projected capital matching ratio and special projects assistance should not be affected. Overall, this will mean less funding for VRE and WMATA, including the loss of \$2 million annually for each system for new railcars. An important question is: If VRE is successful in getting federal earmarks, will the state be able to provide the non-federal matching funds?

Mr. Kauffman stated that it would be helpful for staff to compile a summary of the final version of state budget and how it affects the local transit systems.

<u>Updated Northern Virginia Transit System Performance Measures</u>

Mr. Taube explained that this information has been updated to include FY 2003 data as reported to FTA for the National Transit Database. It shows a favorable picture of the performance of transit systems serving Northern Virginia. Despite lingering effects of the economic downturn and severe funding shortages, ridership growth remains well above the national average.

Legislative Items

Mr. Taube reported that there has been a two-month extension of the TEA-21 reauthorization bill. A conference will be needed to reconcile the House version of TEA-21 reauthorization (known as TEA-LU) at \$275 billion over six years (\$51.5 billion for transit), with the Senate version at \$318 billion (\$56.5 billion for transit). The Bush Administration favors \$256 billion (\$45.8 billion for transit) and has threatened a veto.

Mr. Connolly stated that it is his understanding that Congress is unlikely to override a Presidential veto, which puts the legislation in jeopardy. Chairman Euille stated that this is probably because of the war and finances are tight. In response to a question from Mrs. Whipple, Mr. Connolly guessed that it would be extended through next year.

WMATA Items

Rail to Dulles. Mr. Taube reported that the WMATA Board approved DRPT's request to continue WMATA's role in the public-private consortium seeking to extend Metrorail in the Dulles Corridor. Staff has drafted an op-ed piece for the Journal Newspapers talking about the benefits of the project. He stated that NVTC has not gone on record endorsing the Dulles project.

Mrs. Hudgins stated that if the op-ed piece is too long, the paper will edit it. Mr. Connolly expressed his support for sending the article and going on record supporting the Dulles project. He thanked Mr. Zimmerman for his work with the WMATA Board to get a unanimous vote. He thanked Mr. Snyder also.

Regional Transportation Items

Traffic: Why It's Getting Worse, What Government Can Do. In a Policy Brief #128 (January, 2004) the Brookings Institution published a monograph by Anthony Downs. His premise is that traffic congestion is an "inescapable condition in large and growing metropolitan areas across the world." It is an "inherent result of the way modern societies operate." He states that congestion is not actually a problem, but is a solution to the real problem: Too many people want to move at the same time each day. The author lists strategies that will help slow the future rate of increased traffic congestion.

Americans Support Public Transportation Growth and Investment. APTA has released the results of a study conducted by Wirthlin Worldwide. Key findings include 80 percent of respondents see quality of life benefits from transit; 92 percent want federal transportation reauthorization immediately; 76 percent favor public funding for transit improvements; and a majority thinks transportation investment is preferable to tax cuts to stimulate the economy.

Census 2000 Journey to Work Analysis. In March, 2004, the Census issued a "Census 2000 Brief" that reexamines the results of the 2000 Census "Journey to Work" data from the 2000 Census Demographic Profile. Census estimates show that transit work trips in Northern Virginia increased by 5.5 percent from 1990 to 2000. Although the number is far lower than the actual 25 percent increase in transit ridership in Northern Virginia from 1990 to 2000, it is encouraging to see that the Census does show an increase in transit trips in Northern Virginia.

Bike to Work Day. Mr. Taube announced that Bike to Work day is scheduled for May 7th.

NVTC Financial Reports for March, 2004

The financial reports were provided to commissioners. Mr. Taube stated that there is a reporting error on page 10 of the gas tax revenue report. It will be corrected. Mrs. Whipple stated that it would be helpful to have an estimate of projected increased revenues due to the higher gasoline prices. She speculated that it should make a noticeable difference. Mr. Connolly agreed that it would be helpful to have this analysis.

VRE Items

FY 2003 Auditors' Management Letters. Mr. Taube stated that the commission has previously reviewed the FY 2003 VRE financial report. It received a clean audit opinion from the NVTC/VRE independent auditors, PBGH LLP. However, the auditors did provide three management letters setting forth some concerns. VRE staff has responded to these concerns and the VRE Audit and Finance Committee and the VRE Operations Board have been monitoring these issues.

Mr. Connolly expressed his concern that VRE doesn't have clear written policies on issues such as access to the computer room and the use of credit cards. Mr. Zehner responded that VRE has had a policy on credit card usage, although more strict guidelines have recently been implemented. VRE staff will be meeting with the auditors to review the changes made and get their feedback if further improvements are needed. Mrs. McConnell stated that it is important to have written policies on any issue that needs to be enforced.

Mrs. Whipple asked about the integrated financial management software and why it would take so long to acquire it. She wondered if there would be an "off the shelf" version that could be implemented faster. Mr. Zehner stated that the RFP is for "off the shelf" software.

Mrs. Bulova stated that the VRE Audit and Finance Committee talked about the concept of establishing an ethics officer and appointing Steve MacIsaac to that position. Mr. Zehner stated that this will be included.

VRE Fare Restructuring. Mrs. Bulova reported that the VRE Operations Board recommends approval of Resolution #1013, which would authorize VRE staff to implement several changes to VRE's fare structure, including changes to the base fare and zone charges sufficient to yield the six percent increase in fare revenue included in VRE's approved FY 2005 budget. She stated that VRE held public hearings and the comments received were very constructive. VRE staff did a good job of responding to these concerns and as a result of some of these comments, made changes to the proposed fare structure.

Mr. Snyder arrived at 9:04 P.M.

On a motion by Mrs. Bulova and a second by Mr. Connolly, the commission unanimously approved Resolution #1013 (copy attached). The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

Sale and Procurement of VRE Railcars. Mrs. Bulova explained that the VRE Operations Board recommends approval of Resolution #1014, which would authorize VRE's Acting Chief Operating Officer to enter into an agreement to sell VRE's fleet of 38 single-level Mafersa railcars and spare parts to the Connecticut DOT, with an option for five of the trailer cars for DRPT. DRPT is also seeking a right of first refusal for all of the Mafersa cars if and when ConnDOT decides to sell them.

Mrs. Bulova stated that the total price is \$15.2 million. In the meantime, replacements for the 10 Mafersa cab cars are needed and the resolution authorizes staff to issue a RFP for 11 bi-level cab cars (including one to accommodate growth). Further, 50 additional VRE railcars are needed and the RFP would include such an option.

Mrs. Bulova moved, with a second by Mr. Connolly, to approve the resolution. The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple. (A copy of the resolution is attached.)

<u>Facilities Maintenance Contract and Procurement</u>. Mrs. Bulova stated that the VRE Operations Board recommends approval of Resolution #1015. The resolution would authorize VRE's Acting Chief Operating Officer to increase the current facilities maintenance contract with D&L Contractors, Inc. by \$192,500 to accommodate security enhancements, ice removal and painting. Since the contract expires in July, 2004, the resolution would also authorize staff to issue a RFP for future facilities maintenance services.

On a motion by Mrs. Bulova and a second by Mrs. McConnell, the commission unanimously approved Resolution #1015 (copy attached). The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

Contract Award for Mechanical Engineering. Mrs. Bulova stated that Resolution #1016 would authorize award of a contract for mechanical engineering consulting. The term of the contract is five years for a maximum amount of \$5 million. Each task order over \$30,000 will be approved by the VRE Operations Board and by the commissions if over \$200,000. Three proposals were evaluated by VRE staff. The contract will go to STV, Inc. with sub-

contractors including Jas-Tec (DBE), VirginKar and Associates (DBE) and RailPlan International.

Mrs. Bulova moved, with a second by Mrs. McConnell, to approve Resolution #1016 (copy attached). The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

<u>Diesel Fuel Supply Contract.</u> Mrs. Bulova reported that Resolution #1017 would authorize the VRE Acting Chief Operating Officer to execute a contract with Mifco Heating Oil of Manassas for one year, with four additional one-year options. Mifco will supply diesel fuel (currently 1.2 million gallons annually) to VRE at a fixed margin above a wholesale delivery point.

Mrs. Bulova moved, with a second by Mrs. McConnell, to approve Resolution #1017 (copy attached). The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

Minutes of NVTC's Meeting of April 1, 2004

On a motion by Mr. Connolly and a second by Mr. Gaines, the commission unanimously approved the minutes. The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

Action Items

<u>Dulles Corridor Rail Project</u>. On a motion by Mrs. Whipple and a second by Mr. Connolly, the commission unanimously moved that NVTC support the expansion of Metrorail in the Dulles Corridor. The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

Ms. Rae explained that the state is waiting for a letter from FTA giving final approval for preliminary engineering for this corridor project. She suggested either waiting to send the op-ed piece until the letter arrives or changing the wording. Mrs. Whipple suggested taking out the words "as it enters into the preliminary engineering phase." There were no objections.

Sources of Regional Funding for Metro Matters and VRE Capital Needs. Mr. Connolly moved, with a second by Mrs. Hudgins, that NVTC request that TPB update the regional sources of funding for WMATA and VRE capital needs.

The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

Closed Session on a Personnel Matter

Mrs. McConnell made, with a second by Mr. Gaines, the following motion to enter into closed session:

Pursuant to the Virginia Freedom of Information Act (Section 2.2-3711A.1 of the <u>Code</u> of Virginia), the Northern Virginia Transportation Commission authorizes a closed session for the purpose of discussion of personnel matters relating to the selection of a VRE Chief Executive Officer.

The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

The commission entered into closed session at 9:14 P.M. At 9:39 P.M., Mr. Snyder moved, with a second by Mr. Gaines, to return to open session. The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

Mrs. Bulova moved, with a second by Mr. Connolly, to approve the following certification:

The Northern Virginia Transportation Commission certifies that, to the best of each member's knowledge and with no individual member dissenting, at the just concluded closed session:

- Only public business matters lawfully exempted from open meeting requirements under the Freedom of Information Act were discussed; and
- Only such public business matters as were identified in the motion by which the closed session was convened were heard, discussed or considered.

The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

On a motion by Mrs. Bulova and a second by Mr. Gaines, the commission unanimously approved Resolution #1018 (copy attached), which would authorize the VRE Operations Board Chairman, with the assistance of VRE's legal

counsel, to negotiate with the top-ranked candidate and to conclude a mutually acceptable employment agreement within the parameters set by the commission in closed session. The VRE Operations Board Executive Committee would also use the performance objectives discussed during closed session. The vote in favor was cast by commissioners Bulova, Connolly, Euille, Ferguson, Fisette, Gaines, Hudgins, Kauffman, McConnell, Rae, Snyder and Whipple.

<u>Adjournment</u>

Secretary-Treasurer

 	
Without objection, Chairman E	uille adjourned the meeting at 9:40 P.M.
Approved this third day of June, 2004	l.
	William D. Euille Chairman
Gerald Connolly	

Northern Virginia Transportation Commission

Thursday, May 6, 2004

MEETING SUMMARY

- Agreed to ask TPB to update its forecasts of the yield of various regional sources of transportation revenues while involving local government staffs.
- Went on record in support of extending Metrorail in the Dulles Corridor.
- Authorized Chairman Euille to sign an invited op-ed article explaining NVTC's support for the expansion of Metrorail in the Dulles Corridor.
- Requested additional information about the prospective yield of NVTC's two
 percent gas tax given higher gas prices and about the sources of dedicated
 revenue for transit in other major cities.
- For VRE, approved resolutions to:
 - -- Restructure fares:
 - -- Sell 38 Mafersa single-level railcars to ConnDOT and begin to acquire 11 cab cars while exploring options to purchase 50 more railcars;
 - -- Provide additional funds for current facilities maintenance and initiate procurement of a new contract for the future;
 - -- Award a contract to STV Inc. for mechanical engineering over the next five years for up to \$5 million;
 - --Award a contract to Mifco for diesel fuel supply for the next year (with four additional one-year options).
- Considered the selection of a new VRE Chief Executive Officer in closed session and in open session authorized the chair of VRE's Operations Board to negotiate with the top-ranked candidate and to bring the contract to the VRE Operations Board for final approval.

SUBJECT: VRE Fare Restructuring.

WHEREAS: During the FY 2005 VRE budget review by the CAO Task Force, as

well as the staff review and investigation into SmarTrip integration, a number of changes were recommended to the current VRE fare structure that could afford savings or provide operational

efficiencies;

WHEREAS: At the January 16, 2004 meeting of the Operations Board, the

Acting Chief Operating Officer was given the authority to examine

several areas related to fare collection and fare structure;

WHEREAS: Based on research and public comment, staff has developed a set of recommendations that when implemented would increase fare revenue by 6% as required for the FY 2005 VRE Operating and

Capital Budget.

Secretary-Treasurer

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Acting Chief Operating Officer to make the following changes effective in June, 2004 to the VRE tariff according to the proposal recommended by the VRE Operations Board:

- 1. Increase the base fare and the zone increment by 6%
- 2. Change the ticket discount structure
- 3. Institute a five-day pass
- 4. Create a \$1 step-up ticket for VRE passengers using Amtrak trains
- 5. Eliminate Amtrak cross-honor for weekend service
- 6. Increase ticket expiration dates to one year
- 7. Keep the grace period for monthly tickets at a full day.

Approved this 6th day of May, 2004.		
	William Euille Chairman	
Gerry Connolly		

- **SUBJECT:** Sale and Procurement of VRE Railcars.
- **WHEREAS:** VRE has successfully negotiated with Metra for the acquisition of 35 high capacity Gallery railcars;
- **WHEREAS:** Virginia Railway Express currently owns 38 Mafersa railcars (28 trailers and 10 cab cars);
- **WHEREAS:** These Gallery bi-level units will replace the single-level VRE Mafersa railcars, thereby adding to VRE's seating capacity;
- **WHEREAS:** Storage and upkeep of the Mafersa railcars, after they are no longer in revenue service, add costs to VRE;
- WHEREAS: VRE has received a proposal from the Connecticut Department of Transportation (ConnDOT) for the purchase of all 38 Mafersa railcars as soon as July 2004;
- WHEREAS: ConnDOT has agreed to lease back to VRE seven cab cars for two years and to honor an option by the Virginia Department of Rail and Public Transportation (DRPT) to purchase five trailer cars by October, 2004; and
- WHEREAS: DRPT has expressed an interest in obtaining from ConnDOT the right of first refusal for all of the Mafersa railcars if and when ConnDOT decides to sell them.
- NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Acting Chief Operating Officer to execute an agreement with the Connecticut Department of Transportation for the sale of 38 Mafersa railcars for an amount of at least \$15,200,000, including an option for five trailercars for DRPT;

- **BE IT FURTHER RESOLVED** that the commission supports the request of DRPT to ConnDOT that it have a right of first refusal; and
- **BE IT FURTHER RESOLVED** that the VRE Acting Chief Operating Officer is authorized to issue a Request for Proposals (or participate in a procurement of another commuter rail system) for the procurement of 11 bi-level cab cars with an option for 50 additional bi-level railcars (pending review by VRE's legal counsel).

Approved this 6th day of May, 2004.		
	William Euille Chairman	
Gerry Connolly Secretary-Treasurer		

SUBJECT: Facilities Maintenance Contract and Procurement.

WHEREAS: VRE facilities require a high degree of maintenance due to age,

demand and use;

WHEREAS: VRE has entered into a facilities maintenance contract with D&L

Contractors Incorporated;

WHEREAS: These services are essential for a continued state of good repair for

VRE facilities;

WHEREAS: The current facilities maintenance contract is due to expire in July,

2004;

WHEREAS: A procurement must be initiated at this time so that a new contract

can be executed prior to the current contract expiring; and

WHEREAS: Prior to July, 2004, additional funding is needed for maintenance

under the existing contract with D&L.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Acting Chief Operating Officer to increase funding of the facilities maintenance contract with D&L

Services, Inc. by \$192,500, raising the task order option to an

amount not to exceed \$659,098; and

BE IT FURTHER RESOLVED that the VRE Acting Chief Operating Officer is

authorized to issue a Request for Proposals for facilities maintenance services.

Approved this 6th day of May, 2004.

William Euille Chairman

Gerry Connolly Secretary-Treasurer

SUBJECT: Contract Award for Mechanical Engineering.

WHEREAS: VRE requirements for mechanical engineering services include both specific project work (such as Mafersa truck examination and event recorder upgrade) as well as system-wide improvements (such as the Gallery procurement and remodeling);

WHEREAS: Use of a mechanical engineering consultant has proven to be more efficient than numerous, separate procurements;

WHEREAS: Since its inception VRE has relied on professional engineering firms to assist staff in equipment specifications and maintenance standards:

WHEREAS: The new MEC will be tasked with developing standards to maintain existing equipment in a state of good repair and supporting projects which expand capacity;

WHEREAS: Funds to support the MEC services are budgeted for specific capital projects throughout VRE's adopted, federally funded Capital Improvement Program and in the operating budget for technical, safety and reliability task orders; and

WHEREAS: VRE conducted a competitive procurement and the VRE Operations Board selected STV, Inc. from three proposals.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Acting Chief Operating Officer to award a contract to STV, Inc., for Mechanical Engineering Consulting services to include selected mechanical services and professional engineering services with a value not to exceed \$5 million over five years.

Approved this 6th day of May, 2004.

	William Euille Chairman	
Gerry Connolly		
Secretary-Treasurer		

SUBJECT: Diesel Fuel Supply.

WHEREAS: VRE consumes approximately 1.2 million gallons of diesel fuel each

year;

WHEREAS: VRE is capable of purchasing fuel for a reduced price with an

appropriate contract; and

WHEREAS: VRE staff has recommended a vendor to the commissions as a

result of an ongoing competitive procurement.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation authorizes the VRE Acting Chief Operating Officer to award a multi-year contract to Mifco Heating Oil of Manassas for the delivery of diesel fuel to VRE's storage yards using funds budgeted for that purpose, in an amount not to exceed \$752,540 for the first year of the contract.

Approved this 6th day of May, 2004.

Secretary-Treasurer

	•		
		William Euille	
		Chairman	
	_		
Gerry Connolly			

SUBJECT: Selection of VRE Chief Executive Officer.

WHEREAS: The VRE Operations Board is charged in the VRE Master Agreement with recommending to the commissions a VRE rail manager (now to be chief executive officer), with that person serving as a contract employee at the commissions, and reporting to and acting at the direction of the VRE Operations Board to the extent authorized by the commissions.

WHEREAS: The commissions authorized the VRE Operations Board to conduct a nationwide search for a VRE Chief Executive Officer; and

WHEREAS: After considering expressions of interest from approximately 250 candidates, the VRE Operations Board has interviewed the top candidates and recommended one candidate to the commissions.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the chairman of the VRE Operations Board, with the assistance of VRE's legal counsel, to negotiate with the top-ranked candidate and to conclude a mutually acceptable employment agreement within the parameters set by the commission in closed session;

BE IT FURTHER RESOLVED that the commission authorizes the chairman of the VRE Operations Board to reference in the agreement the set of performance objectives discussed in closed session and to use those objectives in evaluating the performance of the new chief executive officer.

BE IT FURTHER RESOLVED that the commission authorizes the VRE Operations Board to approve on behalf of the commission, and for the commission chairman to execute, the employment agreement recommended by the VRE Operations Board chairman, within the parameters set in closed session.

Approved this 6th day of May, 2004.	
	William Euille Chairman
Gerry Connolly Secretary-Treasurer	

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Rick Taube

DATE: May 27, 2004

SUBJECT: NVTC By-Laws Amendment

As shown in the attachment from NVTC's April 1, 2004 meeting, HB 1231 has placed into the Virginia <u>Code</u> several references to NVTC previously contained only in Acts of Assembly, altered NVTC's quorum requirements, redefined the number of votes required to take any action, added another member of the House of Delegates, and allowed electronic participation in NVTC's meetings by General Assembly members during General Assembly sessions. To conform to these legislative changes, NVTC's by-laws must be amended. To accomplish that, the proposed changes need to be discussed at one NVTC meeting before they are adopted at a subsequent meeting.

Accordingly, the commission is asked to review the attached draft changes in NVTC's by-laws. The additions are shaded. The duties of the executive committee, although not addressed in HB 1231, would also be expanded in the by-laws to conform to current practice. Without objection the changes will be presented for approval at the commission's July 1, 2004 meeting.

§ 10.1-1325, Small Business Environmental Compliance Advisory Panel created; membership; terms;

compensation and expenses.

614 615

616

617

618

619

620

 $621 \\ 622$

623 624

625

626

627

628 629

630 631

632

633

634

636

637

638 639

640

641

642

643

644

645

646

647

648 649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

670 671

672

673

674

The Small Business Environmental Compliance Advisory Board Panel (the "Panel") is hereby ereated established as an advisory panel in the executive branch of state government. It shall be composed of seven members appointed for four years or until their successors have been appointed. Any vacancy should be filled for the duration of the term. Vacancies accurring other than by expiration of a term shall be filled for the unexpired term. Vacancies shall be filled in the same manner as the original appointments. Appointments shall be made in compliance with the Clean Air Act pursuant to 42 U.S.C. 7661f, as amended, as follows:

1. Two members, who are not owners, or representatives of owners, of small business stationary

sources, appointed by the Governor to represent the general public;

Two members appointed by the House of Delegates who are owners, or who represent owners, of small business stationary sources (one member each by the Speaker of the House of Delegates and Minority Leader of the House of Delegates);

3. Two members appointed by the Senate who are owners, or who represent owners, of small business stationary sources (one member each by the Majority and Minority Leaders of the Senate); and

4. One member appointed by the Executive Director.

Members of Panel shall receive no compensation for their service, but shall be entitled to reimbursement for all reasonable and necessary expenses incurred in the performance of their duties as provided in §§ 2.2-2813 and 2.2-2825. The costs of expenses of the members shall be paid from such funds as may be available under Subchapter V (42 U.S.C. 7661 et seq.) of the Clean Air Act, as amended.

§ 15.2-4503.1. Northern Virginia Transportation District and Commission.

There is hereby created the Northern Virginia Transportation District comprised of the Counties of Arlington, Fairfax, Loudoun, and the Cities of Alexandria, Falls Church, and Fairfax and such other

county or city contiguous to the District that agrees to join the District.

There is hereby established the Northern Virginia Transportation Commission (the "Commission") as a transportation commission pursuant to this chapter. The Commission shall consist of five nonlegislative citizen members from Fairfax County, three nonlegislative citizen members from Arlington County; one nonlegislative citizen member from the County of Loudoun, two nonlegislative citizen members from the City of Alexandria, one nonlegislative member from the City of Falls Church, one nonlegislative citizen member from the City of Fairfax, and the Chairman of the Commonwealth Transportation Board or his designee to serve ex officio with voting privileges. If a county or city contiguous to the District agrees to join the District, such jurisdiction shall appoint one nonlegislative citizen member to the Commission. Members from the respective counties and cities shall be appointed from their governing bodies. The Commission shall also include four members of the House of Delegates appointed by the Speaker of the House of Delegates for terms coincident with their terms of office and two members of the Senate appointed by the Senate Committee on Rules for terms coincident with their terms of office. Members may be reappointed for successive terms. All members shall be citizens of the Commonwealth. Except for the Chairman of the Commonwealth Transportation Board or his designee, all members of the Commission shall be residents of the localities comprising the Transportation District, Vacancies occurring other than by expiration of a term shall be filled for the unexpired term. Vacancies shall be filled in the same manner as the original appointments

§ 15.2-4507. Members of transportation district commissions.

A. The Any transportation district commission created shall consist of the number of members the component governments shall from time to time agree upon, or as may otherwise be provided by law. The governing body of each participating county and city shall appoint from among its members the number of commissioners to which the county or city is entitled; however, for those commissions with powers as set forth in subsection A of § 15.2-4515, the governing body of each participating county or city is not limited to appointing commissioners from among its members. In addition, the governing body may appoint from its number or otherwise, designated alternate members for those appointed to the commission who shall be able to exercise all of the powers and duties of a commission member when the regular member is absent from commission meetings. Each such appointee shall serve at the pleasure of the appointing body; however, no appointee to a commission with powers as set forth in subsection B of § 15.2-4515 may continue to serve when he is no longer a member of the appointing body. Each governing body shall inform the commission of its appointments to and removals from the commission by delivering to the commission a certified copy of the resolution making the appointment or causing the removal.

In the case of a transportation district, commonly known as the Potomac and Rappahannock Transportation Commission, which was established on or after July 1, 1986, and which includes more than one jurisdiction located within the Washington, D.C., metropolitan area, the such commission shall

§ 15.2-4512. Quorum and action by commission.

A majority of the commission, which majority shall include at least one commissioner from a majority of the component governments, shall constitute a quorum. Members of the commission who are members of the General Assembly shall not be counted in determining a quorum while the General Assembly is in session. The Chairman of the Commonwealth Transportation Board or his designee may be included for the purposes of constituting a quorum. The presence of a quorum and a vote of the majority of the members present, necessary to constitute a quorum of all the members appointed to the commission, including an affirmative vote from a majority of the jurisdictions represented, shall be necessary to take any action. Notwithstanding the provisions of § 2.2-3708, members of the General Assembly may participate in the meetings of the commission through electronic communications while the General Assembly is in xession.

8. Line 1923, engrossed, after House

insert

one each from of Delegates.

Respectfully submitted,

Delegate H. Morgan Griffith

Delegate Leo C. Wardrup, Jr.

Delegate Vivian E. Watts

Conferees on the part of the House

Senator Mary Margaret Whipple

Senator William C. Mims

Senator Emmett W. Hanger, Jr.

Conferees on the part of the Senate

Legislative Information System

NORTHERN VIRGINIA TRANSPORTATION COMMISSION BY-LAWS

Adopted 3 Mar. 66
Revised 4 Aug. 66
Revised 9 Jan. 69
Revised 5 Jun. 75
Revised 6 May. 81
Revised 11 Jul. 85
Revised 3 Oct. 85
Revised 3 Jan. 90
Revised 1 Mar. 90
Revised 1 Jul. 04

1. PARTICIPATING GOVERNMENTS

- A. The following local governments, comprising the Northern Virginia Transportation District (Section 15.2-4503.1 of the Virginia <u>Code</u>) are eligible to participate in the Northern Virginia Transportation Commission, with representatives as noted:
 - (1) Fairfax County -Five members
 - (2) Arlington County -- Three members
 - (3) City of Alexandria --Two members
 - (4) City of Fairfax--One member
 - (5) City of Falls Church -- One member
 - (6) Loudoun County* -- One member
- B. In addition, the chairman of the Commonwealth Transportation Board designates one ex officio member of the commission.

^{*} Loudoun County's membership is governed by the terms of an agreement dated December 14, 1989 between NVTC and the county.

- C. The General Assembly of Virginia is represented by two senators and four delegates.
- Additional counties and cities may be added to the transportation district and shall appoint one representative.

MEETINGS

A. Regular Public Meetings

Regular public meetings will be held on the first Thursday night of each month unless two thirds of the members shall consent to an alternate date. If the meeting night occurs on a holiday, the commission shall designate a substitute night as a matter of business during a prior meeting.

Quorum and Action by Commission

Section 15.2-4512 of the Virginia <u>Code</u> stipulates the requirements of a quorum and action by the commission. A quorum requires eleven members including individuals representing four jurisdictions. However, while the General Assembly is in session, NVTC's General Assembly members shall not be counted in determining a quorum. General Assembly members on the commission represent the Commonwealth of Virginia and not the jurisdictions from which they are elected. The presence of a quorum and a vote of the majority of the members necessary to constitute a quorum of all the members appointed to the commission, including an affirmative vote from at least one commissioner from a majority of the jurisdictions represented at the meeting, shall be necessary to take any action.

Notwithstanding the provisions of Section 2.2-3708, members of the General Assembly may participate in the meetings of the commission through electronic communications while the General Assembly is in session.

RULES OF PROCEDURE

Robert's Rules, as amended shall apply.

OFFICERS

- A. The officers of the commission shall be elected from the membership of the commission and shall serve terms of one year, or until their successors are elected, and may succeed themselves.
- B. The officers and their duties shall be as follows:
 - (1) Chairman: The chairman presides at meetings of the commission, represents the commission before the United States Congress, the Virginia Assembly, and other commissions, and is the commission's spokesman in matters of policy.
 - (2) Vice Chairman: The vice chairman shall, in the absence or disability of the chairman, perform the duties and exercise the powers of the chairman.
 - (3) Secretary-Treasurer: The secretary-treasurer shall monitor the financial administration of the commission including the funds and investment of funds and securities of the commission and monitor

financial records and the issuance of such reports as required by law, i.e., annual audit and other financial statements as determined by the commission. At least quarterly he or she shall present reports of the financial condition of the commission, giving the status and basis for all investments and of all money and other valuable effects in the name or in the credit of the commission.

C. Election of the officers shall take place annually at the January meeting of the commission, and the officers shall serve until their successors are duly elected. Notice of meeting must state that election of officers will be a matter of business at the meeting.

5. EMPLOYEES

- A. The Commission shall employ an executive director who shall hire and direct such other employees as may be necessary to perform the functions of the commission.
 - B. The duties, qualifications, terms, compensation and related benefits of employees shall be prescribed in <u>Personnel Policies</u> as adopted and amended from time to time by the commission.

ACCOUNTS AND RECORDS

- A. The Virginia <u>Code</u> stipulates the types of records to be maintained by the commission.
- B. The annual report of the commission shall be for the fiscal year period.

C. The official minutes of the commission shall be in the custody of the executive director of the commission who shall certify copies and abstracts of the minutes when required.

BONDING OF COMMISSIONERS AND EMPLOYEES

- A. The commission shall secure a public official bond for the faithful performance of duties in the amount of:
 - (1) \$5,000 for each member of the commission except the secretarytreasurer:
 - (2) \$25,000 for the secretary treasurer.

The bonds shall be filed with and preserved by the Comptroller of the Commonwealth.

- B. The commission shall secure a fidelity bond for the faithful performance of duties in the amount of:
 - (1) \$1,000,000 for the executive director, and
 - (2) As directed for other members of the commission staff and officers as appropriate. The executive director's and staff bonds will be held by the commission.

8. FINANCES

A. Fiscal Year

The fiscal year shall begin the first day of July in each year.

B. Budget

- (1) The executive director shall submit a proposed budget for the succeeding fiscal year during the month of January.
- (2) The budget approved by the executive committee shall be submitted to the commission at its February meeting. The notice of this meeting must state that the budget for the coming fiscal year is to be a matter of business at the meeting.
- (3) The administrative expenses of the commission, to the extent funds for such expenses are not provided from other sources, shall be allocated among the component governments on the basis of the relative shares of state and federal transit aids allocated by the commission among its component governments.

C. Audit

The books of the commission shall be audited by a certified public accountant or accountants, and the audit report shall be included in the annual report.

COMMITTEES

A. Executive Committee

(1) Membership: There shall be an executive committee consisting of the chairman, the immediate past chairman if still a member of the commission, the vice chairman, the secretary-treasurer, both of the commission's WMATA representatives and one member of the General Assembly. The legislative commissioner on the executive committee shall be appointed by the senior member of the legislative commissioners in point of service in the General Assembly.

- (2) Duties: The executive committee shall:
 - (a) Review the work program of the commission and advise the executive director on activities within policies set by the commission.
 - (b) Identify and present to the commission policy issues related to transportation improvements and the administration of NVTC.
 - (c) Review the current administration of the commission including the expenditure and investment of commission funds. Information on these matters shall continue to be provided at least quarterly to the commission.
 - (d) Consider and make recommendations to the commission on the substantive program areas for commission activity and for the establishment and disestablishment of subcommittees required for each activity.
 - (e) Regularly report its deliberations to the commission.
 - (f) Regularly review the performance of the executive director.
 - (g) Function as an audit committee by reviewing periodic financial reports, responding to recommendations from NVTC's auditors and meeting with those auditors as needed.

B. Other Committees

The commission shall, at its organizational meeting, or thereafter, establish such committees as it deems appropriate. Such committees shall continue throughout the calendar year unless dissolved. The chairman of the commission shall designate the chairman and membership of each such committee.

10. AMENDMENT TO BY-LAWS

- A. The By-Laws may be altered or amended by the presentation of such proposed alterations or amendments at one meeting with explanations of the proposed changes. Action on the proposed changes shall be taken at the following or subsequent meetings. Notice of proposed action to amend the By-Laws shall be included in the meeting notice.
- B. The enactment of a change of the By-Laws requires a majority vote of the full commission.

NORTHERN VIRGINIA TRANSPORTATION COMMISSION BY-LAWS

Adopted 3 Mar. 66
Revised 4 Aug. 66
Revised 9 Jan. 69
Revised 5 Jun. 75
Revised 6 May. 81
Revised 11 Jul. 85
Revised 3 Oct. 85
Revised 3 Jan. 90
Revised 1 Mar. 90
Revised 1 Jul. 04

1. PARTICIPATING GOVERNMENTS

- A. The following local governments, comprising the Northern Virginia Transportation District (Section 15.2-4503.1 of the Virginia Code) are eligible to participate in the Northern Virginia Transportation Commission, with representatives as noted:
 - (1) Fairfax County -- Five members
 - (2) Arlington County --Three members
 - (3) City of Alexandria -- Two members
 - (4) City of Fairfax--One member
 - (5) City of Falls Church --One member
 - (6) Loudoun County* --One member
- B. In addition, the chairman of the Commonwealth Transportation Board designates one <u>ex officio</u> member of the commission.

* Loudoun County's membership is governed by the terms of an agreement dated December 14, 1989 between NVTC and the county.

- C. The General Assembly of Virginia is represented by two senators and four delegates.
- Additional counties and cities may be added to the transportation district and shall appoint one representative.

2. MEETINGS

A. Regular Public Meetings

Regular public meetings will be held on the first Thursday night of each month unless two thirds of the members shall consent to an alternate date. If the meeting night occurs on a holiday, the commission shall designate a substitute night as a matter of business during a prior meeting.

B. Quorum and Action by Commission

Section 15.2-4512 of the Virginia <u>Code</u> stipulates the requirements of a quorum and action by the commission. A quorum requires eleven members including individuals representing four jurisdictions. However, while the General Assembly is in session, NVTC's General Assembly members shall not be counted in determining a quorum. General Assembly members on the commission represent the Commonwealth of Virginia and not the jurisdictions from which they are elected. The presence of a quorum and a vote of the majority of the members necessary to constitute a quorum of all the members appointed to the commission, including an affirmative vote from at least one commissioner from a majority of the jurisdictions represented at the meeting, shall be necessary to take any action.

Notwithstanding the provisions of Section 2.2-3708, members of the General Assembly may participate in the meetings of the commission through electronic communications while the General Assembly is in session.

3. RULES OF PROCEDURE

Robert's Rules, as amended shall apply.

4. OFFICERS

- A. The officers of the commission shall be elected from the membership of the commission and shall serve terms of one year, or until their successors are elected, and may succeed themselves.
- B. The officers and their duties shall be as follows:
 - (1) Chairman: The chairman presides at meetings of the commission, represents the commission before the United States Congress, the Virginia Assembly, and other commissions, and is the commission's spokesman in matters of policy.
 - (2) Vice Chairman: The vice chairman shall, in the absence or disability of the chairman, perform the duties and exercise the powers of the chairman.
 - (3) Secretary-Treasurer: The secretary-treasurer shall monitor the financial administration of the commission including the funds and investment of funds and securities of the commission and monitor

financial records and the issuance of such reports as required by law, i.e., annual audit and other financial statements as determined by the commission. At least quarterly he or she shall present reports of the financial condition of the commission, giving the status and basis for all investments and of all money and other valuable effects in the name or in the credit of the commission.

C. Election of the officers shall take place annually at the January meeting of the commission, and the officers shall serve until their successors are duly elected. Notice of meeting must state that election of officers will be a matter of business at the meeting.

5. EMPLOYEES

- A. The Commission shall employ an executive director who shall hire and direct such other employees as may be necessary to perform the functions of the commission.
- B. The duties, qualifications, terms, compensation and related benefits of employees shall be prescribed in <u>Personnel Policies</u> as adopted and amended from time to time by the commission.

6. ACCOUNTS AND RECORDS

- A. The Virginia <u>Code</u> stipulates the types of records to be maintained by the commission.
- B. The annual report of the commission shall be for the fiscal year period.

C. The official minutes of the commission shall be in the custody of the executive director of the commission who shall certify copies and abstracts of the minutes when required.

7. BONDING OF COMMISSIONERS AND EMPLOYEES

- A. The commission shall secure a public official bond for the faithful performance of duties in the amount of:
 - (1) \$5,000 for each member of the commission except the secretary-treasurer:
 - (2) \$25,000 for the secretary treasurer.

The bonds shall be filed with and preserved by the Comptroller of the Commonwealth.

- B. The commission shall secure a fidelity bond for the faithful performance of duties in the amount of:
 - (1) \$1,000,000 for the executive director; and
 - (2) As directed for other members of the commission staff and officers as appropriate. The executive director's and staff bonds will be held by the commission.

8. FINANCES

A. Fiscal Year

The fiscal year shall begin the first day of July in each year.

B. Budget

- (1) The executive director shall submit a proposed budget for the succeeding fiscal year during the month of January.
- (2) The budget approved by the executive committee shall be submitted to the commission at its February meeting. The notice of this meeting must state that the budget for the coming fiscal year is to be a matter of business at the meeting.
- (3) The administrative expenses of the commission, to the extent funds for such expenses are not provided from other sources, shall be allocated among the component governments on the basis of the relative shares of state and federal transit aids allocated by the commission among its component governments.

C. Audit

The books of the commission shall be audited by a certified public accountant or accountants, and the audit report shall be included in the annual report.

9. COMMITTEES

A. Executive Committee

(1) Membership: There shall be an executive committee consisting of the chairman, the immediate past chairman if still a member of the commission, the vice chairman, the secretary-treasurer, both of the commission's WMATA representatives and one member of the General Assembly. The legislative commissioner on the executive committee shall be appointed by the senior member of the legislative commissioners in point of service in the General Assembly.

- (2) Duties: The executive committee shall:
 - (a) Review the work program of the commission and advise the executive director on activities within policies set by the commission.
 - (b) Identify and present to the commission policy issues related to transportation improvements and the administration of NVTC.
 - (c) Review the current administration of the commission including the expenditure and investment of commission funds. Information on these matters shall continue to be provided at least quarterly to the commission.
 - (d) Consider and make recommendations to the commission on the substantive program areas for commission activity and for the establishment and disestablishment of subcommittees required for each activity.
 - (e) Regularly report its deliberations to the commission.
 - (f) Regularly review the performance of the executive director.
 - (g) Function as an audit committee by reviewing periodic financial reports, responding to recommendations from NVTC's auditors and meeting with those auditors as needed.

B. Other Committees

The commission shall, at its organizational meeting, or thereafter, establish such committees as it deems appropriate. Such committees shall continue throughout the calendar year unless dissolved. The chairman of the commission shall designate the chairman and membership of each such committee.

10. AMENDMENT TO BY-LAWS

- A. The By-Laws may be altered or amended by the presentation of such proposed alterations or amendments at one meeting with explanations of the proposed changes. Action on the proposed changes shall be taken at the following or subsequent meetings. Notice of proposed action to amend the By-Laws shall be included in the meeting notice.
- B. The enactment of a change of the By-Laws requires a majority vote of the full commission.

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Rick Taube

DATE: May 27, 2004

SUBJECT: NVTC Policy on Fraud and Related Improprieties

VRE's Operations Board has recommended approval of a Fraud Policy (see NVTC Agenda Item #120 below) in response to comments by VRE's auditors. The VRE policy will become part of PRTC's personnel policies since VRE employees technically are PRTC employees. NVTC currently does not itself have such a policy and it is desirable to take advantage of the extensive legal work that was devoted to crafting the VRE policy. Since NVTC is a small organization, the VRE policy has been modified slightly for application to NVTC. The changes to the VRE policy are highlighted in the attachment.

The commission is asked to adopt the attached policy relating to fraud and other improprieties.

Draft: May 14, 2004

NVTC POLICY ON FRAUD AND OTHER IMPROPRIETIES

Deleted: FRAUD

PURPOSE:

NVTC is committed to preventing fraud and similar improprieties in the workplace and in work related matters. All employees must share in this commitment. Employees in management positions are required to be familiar with the instances of fraud and other similar types of improprieties that might occur within their areas of responsibility and be alert for any indication of such. All employees have an obligation to report incidents and suspected incidents of fraud. The purpose of this policy is to define what constitutes fraud and establishes rules and procedures that all departments and employees must follow, in addition to those set forth in other policies, when fraudulent activities occur or are suspected.

Deleted: PRTC and VRE

Deleted: are

POLICY:

The provisions of this policy apply to any instance or suspected instance of fraud or similar impropriety involving not only employees, but also vendors, agents, and external organizations doing business with NVTC. In addition to taking appropriate administrative action, NVTC will, where appropriate, pursue civil and criminal prosecution to the full extent of the law for any fraud by an employee, vendor, agent, or external organization doing business with NVTC. The reporting and investigation procedures of this policy shall also apply to any instance or suspected instance of a violation of other NVTC policies or administrative regulations.

Deleted: PRTC or VRE

Deleted: PRTC\VRE

Deleted: PRTC or VRE

Deleted: the

Deleted: PRTC\VRE

Deleted: or the Rules of Conduct

- I. Definition of Fraud and Prohibited Conduct
 - A. Fraud is any use of falsehood or deception with regard to theft or intentional, reckless, or negligent misuse, destruction, falsification, alteration, concealment, misappropriation, waste or abuse of NVTC funds, property, or time in order to secure direct or indirect financial or material gain, personal advantage, or other benefit, or for other reasons. Fraud shall also include other acts of omission or commission similar in nature to the foregoing.

Deleted: PRTC or VRE

- B. Specific examples of fraud include, but are not limited to:
 - 1. Falsification or alteration of official <u>NVTC</u> records or data;

Malicious damage or deliberate destruction of NVTC property;

Deleted: PRTC or VRE

Deleted: PRTC or VRE

- 3. Theft, misappropriation, or unauthorized removal or misuse of NVTC funds, records or property;
- Seeking or accepting anything of material value from 4. vendors or persons providing services/materials to NVTC(e.g., favors, kickbacks or bribes);
- 5. Neglecting or subverting job responsibilities in exchange for an actual, expected or promised reward.
- C. Violations of this policy shall be a violation of NVTC's administrative regulations and shall be subject to appropriate disciplinary action.
- D. Identification or allegations of acts outside the scope of this policy, including violations of other Rules of Conduct, personal improprieties or irregularities, whether moral, ethical, or behavioral. safety or work environment related, or complaints of sexual or other harassment will be addressed by management in accordance with the <u>administrative regulations</u> and other, applicable <u>NVTC</u>policies.

Reporting Fraud II.

- Α. Any NVTC employee with reason to believe that another employee, vendor or contractor of a company or external entity doing business with NVTC is engaged in fraudulent conduct, will promptly report such information to the NVTC employee's immediate supervisor. The immediate supervisor will report the matter through his or her chain of command to the department director of the reporting employee. That department director will, in turn, report the matter to the director of the department responsible for the oversight of the suspected employee, vendor, or contractor <u>...Before</u>he department director, institutes action, he or she will, promptly report the matter to the NVTC Executive Director who will decide whether to obtain legal counsel,
- В. If the subject of the allegation, is a department director, the employee will report directly to the NVTC Executive Director.
- C. If the subject of the allegation is the NVTC Executive Director the employee will report directly to NVTC's chairman, who will reques assistance from legal counsel of his/her own jurisdiction or elsewhere to conduct an investigation and report the results to the full commission. In any instance in which an employee initially reporting fraudulent or suspected fraudulent conduct, or any employee or manager in the chain of command thereafter responding to the report of such information, is unable or unwilling to report or investigate the information because the fraudulent

Deleted: PRTC or VRE

Deleted: PRTC or VRE

Deleted: the

Deleted: Rules of Conduct

Deleted: Rules of Conduct

Deleted: PRTC\VRE

Deleted: PRTC or VRE

Deleted: who will institute appropriate action to investigate the information.

Deleted: T

Deleted: who

Deleted: also

Deleted: and the results of the investigation, to the PRTC Executive Director if the allegations involve a PRTC employee, vendor, or contractor, or to the VRE Chief Executive Officer if the allegations involve a VRE employee, vendor, or contractor. Thereafter, the Executive Director or the Chief Executive Officer shall, in coordination and consultation with legal counsel, institute an appropriate investigation.

Deleted: investigation

Deleted: either

Deleted: PRTC

Deleted: if the allegations involve a PRTC Department Director or to the VRE Chief Executive Officer if the allegations involve a VRE department director. Thereafter, the Executive Director or the Chief Executive Officer shall, in coordination and consultation with legal counsel, institute an appropriate investigation.

Deleted: investigation

Deleted: PRTC

Deleted:

Deleted: or the VRE Chief Operating Officer.

Deleted: either, with respect to VRE related fraudulent conduct, the legal counsel who represents PRTC in VRE matters or, with respect to PRTC related fraudulent conduct, the legal counsel who represents PRTC in non-VRE matters. In such instances, the legal counsel shall institute an appropriate investigation, and shall report directly to PRTC in the case of the PRTC Executive Director, or to the VRE Operations Board, as ... [1]

Deleted: ¶

conduct involves employees or managers within the chain of command who have responsibility to further report or investigate the information, or if the reporting employee otherwise believes that adverse consequences may occur if the conduct is reported or investigated, then the employee may skip over that level of the chain of command believed to be involved in the fraudulent activity. Alternatively, the employee may directly contact the NVTC chairman. In such cases, the chairman, in consultation with legal counsel from his/her own jurisdiction or elsewhere, shall determine the manner in which an investigation and appropriate action shall be taken, and shall report directly to the full commission.

It is a violation of the administrative regulations to retaliate against

for cooperating, giving testimony, or participating in an investigation

concerning a violation of this policy. Appropriate disciplinary action

will be taken against those found retaliating against the employee.

or penalize any individual for reporting a violation of this policy or

Deleted: either, with respect to VRE

Deleted: related fraudulent conduct, the legal counsel who represents PRTC in VRE matters or, with respect to PRTC related fraudulent conduct, the legal counsel who represents PRTC in non-VRE matters.

Deleted: legal counsel

Deleted: PRTC concerning a non-VRE

Deleted: matter, and to the Operations Board, as well as NVTC and PRTC, concerning a VRE matter.

Deleted: Rules of Conduct

G. Failure to report information indicating a violation of this policy, and refusal to respond to questions or failure to cooperate in an investigation of violations of this policy violate the <u>administrative</u> <u>regulations</u> and are subject to disciplinary action.

Deleted: Rules of Conduct

III. Investigation Procedures

F.

A. Once suspected fraud or <u>a</u> similar impropriety is reported, employees and managers may be advised to take immediate action to prevent the theft, alteration, or destruction of relevant records. Such actions may include, but are not necessarily limited to, removing the records and placing them in a secure location, limiting access to the location where the records currently exist, and preventing the individual suspected of committing the fraud from having access to the records. In the event relevant records may be contained in NVTC computer equipment, such equipment may be removed or otherwise secured, and further access prohibited. There may be a situation where no action is taken to avoid alerting the suspect of an investigation.

Deleted: PRTC or VRE

B. No individual employee, manager, or department will attempt on his, her, or its own to investigate the suspected fraudwithout coordination with NVTC's executive director (or chairman) and the appropriate level of management as determined consistent with this policy. In appropriate cases, law enforcement

Deleted:,

Deleted: and will only do so in

Deleted: legal counsel

authorities may assume primary responsibility for conducting an investigation.

- C. Employees and managers shall not discuss or disclose the facts, suspicions, or allegations with anyone involving fraudulent conduct except as provided in this policy or unless specifically directed to do so by those responsible for the investigation. Allegations will be treated with the highest degree of confidentiality and sensitivity.
- D. It is important that respect be maintained for personal workspaces. However, at times, searches of workspaces may be necessary to thoroughly investigate an allegation or incident. Those responsible for the investigation have the authority to examine, copy and/or remove all or any portion of the contents of computers, files, desks, cabinets, lockers and storage facilities without the prior knowledge or consent of any individual who may use or have custody of such premises or own any such items. Employees have no right or expectation of privacy in any computer, desk, file cabinet, locker or other storage facility used to conduct NVTC business, or located on any premises owned, leased or controlled by NVTC. Review of records the confidentiality of which is protected under state or federal law will be coordinated with those responsible for the investigation.

Deleted: PRTC or VRE

Deleted: PRTC or VRE

E. Every effort will be made to effect recovery of <u>NVTC</u> losses from the responsible person(s) where such effort is in the best interest of <u>NVTC</u>.

Deleted: PRTC\VRE

Deleted: PRTC\VRE

- F. Once an investigation is concluded, the findings will be documented and recommendations for appropriate action will be made by those responsible for the investigation.
- G. All contact with the media and decisions on release of any information to the public will be made through an individual assigned responsibility, at the time of the investigation.

Deleted: for such

Deleted: Legal counsel for PRTC in VRE matters or legal counsel for PRTC in non-VRE matters, as appropriate, will advise on the release of any information to the public.

either, with respect to VRE related fraudulent conduct, the legal counsel who represents PRTC in VRE matters or, with respect to PRTC related fraudulent conduct, the legal counsel who represents PRTC in non-VRE matters. In such instances, the legal counsel shall institute an appropriate investigation, and shall report directly to PRTC in the case of the PRTC Executive Director, or to the VRE Operations Board, as well as PRTC and NVTC, in the case of the VRE Chief Executive Officer.

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Richard K. Taube

DATE: May 27, 2004

SUBJECT: WMATA Items

A. Metro Board Digest for May, 2004.

A copy is attached for your information.

B. WMATA FY 2005 Operating and Capital Budget.

Excerpts are attached. Following a discussion with local jurisdiction staff, NVTC staff prepared the attached letter containing recommended comments. The commission is asked to authorize Chairman Euille to send the comments to WMATA in support of our local jurisdictions.

C. Pike Transit Initiative.

The attached briefing paper was presented to a WMATA Board committee in early May. It describes the results of a year-long study by WMATA of alternative bus and rail investments in the Columbia Pike corridor. That corridor currently supports 12,000 daily transit trips and 50,000 vehicle trips. The public involvement schedule calls for briefings of elected officials, community meetings, a design dialogue workshop and a new website, all to begin this spring. Following evaluation of alternatives in the fall, selection of a locally preferred alternative and completion of a final report would occur this winter.

D. Railcar Deployment Plan.

With the arrival of 42 new railcars, the WMATA Board debated whether they should all be deployed on the Red Line. Discussions at board committee meetings led to a proposal to reallocate railcars to achieve nearly equal average peak passenger loading per car across all lines. However, the policy approved by the board uses cars from gap trains to provide some modest relief to lines other than the Red Line and the situation will be reexamined in a few months. The attached tables show how this railcar deployment will be accomplished.





May 20, 2004

MEMORANDUM FOR:

Chairman and Members of the Board

SUBJECT:

May Board Digest

Metro Preparing for May 29 World War II Memorial Dedication

Next weekend, Metro will play a key role in transporting hundreds of thousands of people to events relating to the dedication of the new World War II Memorial. The memorial is located off 17th Street, NW, between Independence and Constitution avenues. The main event, the official dedication ceremony, takes place on Saturday, May 29 at 2 p.m. Metro has developed a special service plan for Saturday to assist with moving people to and from the dedication. In addition to the dedication, the American Battle Monuments Commission (ABMC) and the Smithsonian Institution have scheduled events throughout the weekend beginning Thursday, May 27, including the National World War II Reunion on the National Mall and Salute to World War II Veterans at the MCI Center.

Metro staff from throughout the Authority has worked closely with the planners of the weekend's events to ensure safe, reliable transportation for participants, many who are elderly and/or in wheelchairs. The average age of World War II veterans is 82. In addition, Metrobus is prepared to contend with numerous street closures in downtown Washington, D.C., due to event logistics and heightened security efforts.

Next Saturday, Metro will set up a special command center to monitor the day's events. Metrorail will operate trains every 10 minutes between 10 a.m. and 8 p.m. on all rail lines, and volunteer Metro Information Persons (MIPs) will be in key rail stations to hand out walking guide brochures, provide assistance at farecard machines, provide directions and answer customer questions.

The ABMC and the Transportation Management Service, (ABMC's transportation adviser) have drawn up a plan to move the thousands of

Washington Metropolitan Area Transit Authority

600 Fifth Sheet, NW Washington, D.C. 20001 202/962-0234

Ey Meharan Idalo'en Eonare-Neo Live Galloy (Nece Chriator) Pep Green arc Fellon Live

A contract of Colombia, Avaigned and Valent Transit Partner for

expected attendees. The organizers have chartered 225 Metrobuses and 80 buses from Ride-On, Fairfax Connector, CUE and other bus companies to provide special shuttle service for event ticket holders from Metro Center, Farragut West, Smithsonian and L'Enfant Plaza stations, and the Pentagon South and RFK Stadium parking lots to the ceremony. In addition, event organizers have paid to retrofit 25 Metrobuses with their seats removed to accommodate wheelchair users who have been directed to RFK Stadium and Pentagon South.

To support these efforts, Metro has developed a comprehensive communications plan, which includes the creation and distribution of a walking guide brochure, information on the Web site, news media releases, station announcements, banners, directional signs and electronic messages. In addition, employees from the Office of the Treasurer will load and sell farecards at key stations; MTPD will cancel vacation leave in order to have the entire force available to help manage crowds; and MetroAccess and the Office of Elevator and Escalator Maintenance have prepared for an increased number of wheelchairs in the system and will have personnel positioned at key locations to respond rapidly to problems.

Work on Largo Extension Will Shut Down Part of the Blue Line

As work on the new Morgan Boulevard and Largo Town Center stations continues, WMATA must upgrade the train control system to prepare the extended portion of the line for passenger service. To perform this technical work, we plan to shut down a portion of the Blue Line between Stadium-Armory and Addison Road-Seat Pleasant on four separate weekends, beginning this weekend.

At 9 p.m. Friday, May 21, Blue Line service will end at Stadium-Armory. Metro will provide shuttle bus service between Stadium-Armory and Addison Road-Seat Pleasant stations with stops at Benning Road and Capitol Heights Metrorail stations. Normal Blue Line service will resume Monday, May 24, at 5:30 a.m.

Additional technical work requiring the partial shut down of the Blue Line is scheduled for June 11-14, June 18-21, and June 25-28.

Newspaper Ads and E-mails Remind Parking Customers To Get SmarTrip Cards

WMATA recently began an advertising campaign in the Express newspaper to remind customers of the impending change to SmarTrip-only parking facilities beginning June 28. Newspaper ads have been running on Tuesdays and Wednesdays, and SmarTrip card applications have been inserted on Thursdays. The ads and inserts appeared during the week of April 26 and May 3, and continue this week and the week of June 7. During the week of June 21, we will run only the ads.

Additionally, we sent the first of three e-mail blast campaigns on April 29 reminding parking customers to get their SmarTrip cards. The e-mail was sent to 4,041 organizations and businesses including SmartBenefits/Metrochek employers, joint partners, and cultural and tourism representatives.

The Authority has taken other measures to get SmarTrip cards into the hands of our customers including holding sales events at key Metrorail stations. We will continue to sell cards at stations through the summer months. Also, during the weeks of May 10 and May 17, parking lot attendants handed out SmarTrip card application forms to customers who paid with cash.

MetroAccess Celebrates 10 Years of Service

Ten years ago, on May 16, 1994, MetroAccess began providing curb-to-curb paratransit service for people with disabilities. The service was implemented as a direct result of the Americans with Disabilities Act of 1990 (ADA) that required public transit agencies to provide complementary paratransit service to people with disabilities who are unable to use accessible fixed route service such as Metrobus and Metrorail because of their disabilities.

MetroAccess is the only ADA-compliant paratransit service operated in the Washington metropolitan region today.

Both demand for the service and operating costs for MetroAccess have risen dramatically in 10 years. For example, in fiscal 1995,

MetroAccess operated 46,774 trips with a budget of \$3.9 million. For fiscal 2005, MetroAccess is projected to operate 1.5 million trips with a budget of more than \$50 million.

In its 10 years of operations, MetroAccess has provided a vital service to its customers. Today, more than 13,000 people are certified and eligible to use MetroAccess. For many of them, MetroAccess is the sole means of transportation to places of employment, educational or health care facilities, as well as social and cultural activities.

Robert Miles Wins 16th Straight Bus Roadeo

The 27th Annual Metrobus Roadeo took place at the Landover Bus Division on Saturday, April 24. Metrobus Operator Robert L. Miles of the Landover Division won his 16th consecutive victory. Miles, of Bowie, MD, demonstrated his excellent driving skills on an obstacle course and scored points for personal appearance, smoothness of operation and safety habits.

The mechanics team from the Bladensburg Heavy Overhaul Facility Team attained its first victory in the maintenance portion of the Roadeo. Team members included Truc Hoang of Centreville, VA, Ruben Ortiz of Woodbridge, VA, and Wendell Warffemius of Waldorf, MD.

This year's closely contested competition featured 65 operators and 10 maintenance teams. Only 35 points separated the first and third place bus operator, and 65 points separated the first and third place maintenance team.

Operator James H. Jennings of Royal Street Division placed second and Operator Thomas Hobbs from Four Mile Run Division placed third. The Montgomery Garage maintenance team of Leonard Makowski, John Epps, Jr. and Michael Harris earned second place and the Western Garage team of James Burrell, Samuel Divers and Chalmers Lowery took third.

Miles and the Bladensburg team will travel to Atlanta to represent WMATA at the International Bus Roadeo in September.

Greenbelt Rail Yard Hosts 10th Annual Rail Rodeo

One week following the bus competition, it was time for Metrorail operators and maintenance teams to showcase their skills at the 10th Annual Rail Rodeo at the Greenbelt Rail Yard. This year, 12 Metrorail operators and eight maintenance teams competed for top honors.

James W. Coleman of the New Carrollton Division won the operator's contest and the Greenbelt team of Royce Wist, William Young, and Sayeed Deen won the maintenance competition.

Operators were tested on appearance, train preparation, announcements, troubleshooting, maneuvering through an obstacle course and safety. Operators Elliot Thomas of Brentwood and Willie Meade of Greenbelt took second and third place

The maintenance team competition included electrical, mechanical, HVAC and inspection tasks. The Shady Grove of Richard Mance, Mike Lipps and Steve Firko, finished in second place. Third place went to Hao Tan, Vincent Hoang and William Janko from Alexandria.

The first and second place operators, and first place maintainers will compete in the International Rail Rodeo next month.

Art in Transit Wins Award and Prepares to Host Arts Convention Workshop

The WMATA Art in Transit Program received a Citation of Excellence as part of the 2004 Addy Awards program organized by the Ad Club of Metropolitan Washington. Each year, the Ad Club receives hundreds of nominations that are judged by a distinguished panel of professionals in the advertising industry. Art in Transit was cited for its excellence in the design and production of its promotional program.

On July 16, Art in Transit will host a workshop and tour titled "Helping to Create Livable Communities through Art in Transit" at the Second Joint Convention of Americans for the Arts and the National Assembly of State Arts Agencies The workshop will explore the benefits and challenges of integrating artwork into transit projects. The Joint Convention has become the country's largest conference of arts advocates and professionals, and approximately 1,500 people are expected to attend this year's conference. The Art in Transit workshop will take place at the Jackson Graham Building followed by a tour of artwork installed in the Metrorail system:

Upcoming Events

May 21

Columbia Pike Transit Initiative Open House; 11:30 a.m. to 1 p.m. at the Goodwin House, 3440 S. Jefferson Street in Falls Church; 6 to 7:30 p.m. at the Sheraton National Hotel Galaxy Room 900 S. Orme Street in Arlington.

May 31

National Moment of Remembrance, 3 p.m.; WMATA to participate in this national observance organized by the White House Commission on Remembrance; Metrobuses will operate with their headlights on and the rail system will broadcast a public announcement; the Moment is a time to honor soldiers and veterans for their service to the country.

June 2

Department of System Safety and Risk Protection's Emergency Management Outreach with Metro Transit Police and the Department of Communications, Vienna Metrorail station, 7:30 to 9 a.m.

June 5

Komen National Race for the Cure begins at 8 a.m. on the National Mall. Metrorail will open at 5 a.m.

June 6 through June 9

APTA Rail Transit Conference, featuring the International Rail Rodeo, Radisson Hotel, Miami, Florida

June 7

Public hearing on late night closing fare adjustment and MetroAccess supplemental fare (time and place not yet determined)

June 8

Public hearing on late night closing fare adjustment and MetroAccess supplemental fare (time and place not yet determined)

June 11

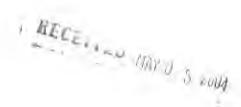
Management Trainee Program graduation; JGB Meeting Room, 10 a.m.

....

If you have any questions, please let me know. Thank you.

Richard A. White

Chief Executive Officer





May 3, 2004

Mr. Richard K. Taube Executive Director Northern Virginia Transportation Commission 4350 North Fairfax Drive, Suite 720 Arlington, Virginia 22203

Dear Mr. Taube

The Budget Committee of the WMATA Board of Directors has directed that the proposed WMATA fiscal 2005 Operating and fiscal 2005-2010 Capital Improvement Program (CIP) Budgets be sent to our funding partners for review and comment before final consideration of the budgets by the Board in June. For the last year, the Budget Committee has worked with staff to review and refine these budgets, which represent a comprehensive approach to addressing operating expenses for next year, and to lay out the six-year capital program for the Metro system. All of us face fiscal constraints; however, we all want to avoid the serious regional consequences of under-investment in the Metro system.

As proposed by the Board Budget Committee, the fiscal 2005 Operating and Capital Budgets total \$1,287B and include the following elements: Operating Budget, \$962.5, including debt service of \$27.5M; Capital Improvement Program, \$319.2; and Reimbursable Operating Projects, \$5.7M

We have also included in this package information on the Strategic Alliances and Risk Assessment Program, which is a money management strategy for implementation of the three unfunded urgent priorities which make up the \$1.5 billion Metro Matters program. Through improved financial planning, management of available funding and the movement of specific CIP program areas to an expenditure schedule, the unfunded programs can be made more affordable and achievable.

The topics covered in this letter are in the form of an executive summary so that you may quickly gain an appreciation of the budgetary matters at hand. Additional materials are provided which allow you and your staff an opportunity for deeper review. These are listed at the close of this letter.

Operating Budget

The Operating Budget includes \$962.5M of expense, offset by \$535.2M of revenue, resulting in an operating subsidy of \$427.2, including \$27.5M in debt service on original construction bonds. The Budget Committee and WMATA staff have worked to reduce costs and increase productivity in order to control subsidy growth in fiscal 2005. Cost containment in fiscal 2002, 2003 and 2004 totals a cumulative \$48M. As

Washington Mutropolitan Area Transit Authority

000 FNN Street NW Westington, NC 20051 200/862 1236

By Mersand Junctory Source—Mod Dis-Gleaty Rings I, stratown— Real Brown and World Lines Realized IV 197, 36 PM (a) 41, 83, 80

A Martin College of Parameter Marting Court Parameter Total of Parameter part of the fiscal 2005 proposed budget, we have added another \$33M in cost containment for a new cumulative total of \$81M. Adjusting for inflation, total operating cost per passenger mile decreased more than 20% over the past nine years. This annual cost productivity improvement of 3%+ is on a par with some of the best corporations in private industry.

The cost containment/reduction items in the fiscal 2005 budget include:

- · \$8.6M from reduced salary and wage growth
- \$5.7M from miscellaneous General & Administrative cuts
- . \$3.8M from lower costs for new service & adjustments
- \$3.5M from enhanced overtime management
- · \$3.0M from constrained insurance premiums
- \$3.0M from a deployment schedule change in our new rail cars
- \$2.0M from a tightly-focused hiring "freeze"
- 51.7M from improved management of paratransit services
- \$1.1M from improved benefits and Worker's Compensation rates
- \$1.0M from productivity with new information systems

We are pleased to note that despite the limited resources available for this budget cycle, there are some service additions that the Budget Committee has voted to undertake. First, later service on Metrorall until 3am on Friday and Saturday evenings, with concurrent bus service, will become part of our basic operating budget. Previously, the District of Columbia funded this service as an 18-month demonstration project. Second, the Committee has voted to modify the previously planned deployment of new rail cars to reduce crowding on all rail lines. Third, the Committee has included funds to install bus route maps at approximately 850 WMATA-owned bus shelters throughout the region. We believe this will make it easier for passengers to use the Metrobus system, and we encourage our regional funding partners to consider this feature as part of their bus shelter improvement program. Lastly, the Committee also voted to provide funding for an enhanced communication and signage initiative. The costs of these enhancements are funded by the fare increase discussed below.

Metro Access

Despite the Authority's hard work on limiting cost growth in our core Bus and Rail services, it must be noted that an expense increase of some \$12M is required for Paratransit service growth as mandated by the Americans with Disabilities Act. The MetroAccess service is once again experiencing unprecedented increases of 20%+ in passenger demand for service. There is a direct relationship between the demand for service and the cost of service, and we are anticipating MetroAccess subsidy to increase from \$37.7M in FY04 to \$47.6M in FY05. The federally mandated MetroAccess service represents 0.3% of our ridership, 4.8% of our operating expenses, and almost 10% of our subsidy. Because of this profile, the WMATA Board convened a Regional Task Force (RTF) on Paratransit to identify ways to make the service more effective

The RTF addressed a number of issues and made some substantial recommendations to the WMATA Board that will result in a \$1.7 million reduction in subsidy. These recommendations include charging a supplemental fare for service outside the MetroAccess ¼ mile service area limit, modifying the ADA eligibility process to provide more consistent functional assessments, providing free fares on Metrobus and Metrorall to a companion or Personal Care Assistant for the ADA eligible person, and introducing a Medicaid Transit Pass to allow local social service agencies to provide accessible regular route transit service to their Medicaid-eligible clients. This last recommendation could reduce transportation costs to social service agencies by more than \$1.5 million annually.

The RTF and WMATA staff also recognized that public transit is being asked to shoulder the responsibility to provide transportation solutions for a national mobility problem without any financial assistance from the federal, state and local governments. As a point in fact, much of the proposed FY05 fare increase on Metrobus and Metrorail will subsidize the operating deficit of MetroAccess service. We cannot continue to ask transit patrons to be the only members of the public to finance this service. Further, we are finding that many social service agencies are directing their clients to MetroAccess because the client pays a one-way fare of \$2.40 rather than the agency paying the full cost of the service that averages \$35.00 per one-way trip. We believe that "...the dollars must follow the person..." in order to ease the financial burden on MetroAccess.

In this regard, the RTF and WMATA staff defined a number of activities that state and local governments and the Metropolitan Washington Council of Governments should undertake to improve mobility options for ADA eligible persons. These include: certifying MetroAccess as a Medicaid provider throughout the region; requiring a sufficient number of accessible taxis in every jurisdiction to allow for implementation of a same day taxi service for ADA eligible persons, with a subsidy provided by the Authority; creating an "Accessible Environment" of sidewalks, safe pedestrian crosswalks, curb cuts and accessible bus stops and bus shelters to allow persons with disabilities to fully utilize the enormous investment made in accessible fixed route bus and Metrorail service without the need for MetroAccess service; identifying a dedicated source of funds for MetroAccess, an "Accessible Environment" and specialized paratransit services, and re-bidding the MetroAccess contract.

WMATA cannot continue to do this alone. If we are not able to obtain more state and local funding for MetroAccess service and other service options, we will be forced either to increase subsidies, to raise passenger fares on Metrobus and Metrorail, or to reduce Metrobus and Metrorail service.

Fare Increases

Overall, despite continued efforts to control costs and recognizing the need to limit subsidy increases, the fiscal 2005 operating budget could not be balanced by depending only on ridership and base revenue growth. With that reality in mind, for fiscal 2005 the Authority is reluctantly proposing to raise various fares and fees to generate \$28.9M to balance the fiscal 2005 budget. The fare increase reflects the comments from the public hearings and represents the collective effort of our Board Budget Committee to provide equity across the region. In brief, in fiscal 2005 the boarding charge for bus would increase by 5 cents to \$1.25 and rail would increase by 15 cents to \$1.35, maximum fare charges for Metrorail would be increased to \$3.90, parking would increase by \$0.75, and Metro Access fares would increase by 10 cents to \$2.50. This fare increase is designed to balance the fiscal 2005 budget only, the Committee did not address funding pressures for FY 2006.

The Committee has requested staff to take the MetroAccess supplemental fare recommendation to public hearing along with a proposal to charge peak period fares from 12 to 3 AM on Friday and Saturday nights. If either or both of these actions are adopted by the Board of Directors, subsidy levels would decrease below the levels shown in this package of materials.

A table of the full set of fare changes is attached, and the Committee welcomes your comments. Additional materials are provided in separate letters for review by jurisdictional staff.

Capital Improvement Program (CIP)

The CIP is based on a continuing, comprehensive reexamination of the Authority's 25 year requirements and the need to align resources to rehabilitate the system and grow ridership. Recognizing the financial constraints of the region, the proposed program includes only the highest priorities of an adopted 10-year \$12B plan. The proposed CIP budgets \$319.2M for fiscal 2005 and the proposed fiscal 2005-2010 program totals \$1.895B.

During FY2005 — 2010, the amount available for projects is substantially reduced due to the payment of \$600M in expenditures for rehabilitation work advanced through the TIFIA program. The net amount available for projects in FY2005 is \$313.2M and \$1.211B over the six-year program. The CIP contains three programs.

The Infrastructure Renewal Program (IRP) addresses the rehabilitation requirements of the Metrorail and Metrobus system. The fiscal 2005 IRP, as proposed for implementation, totals \$284.1M and the fiscal 2006-2010 program, proposed for planning purposes, totals \$926.5M.

The System Access/Capacity Program (SAP), the second component of the CIP, addresses the needs of ridership growth through fleet expansion and station access

Mr. Richard K. Taube Page 5

improvements. The proposed fiscal 2005 SAP is budgeted at \$9.8M, and the proposed fiscal 2005-2010 SAP totals \$14.8M.

The System Expansion Program (SEP), the third component of the CIP, addresses system expansion requested and funded by sponsoring agencies. The proposed fiscal 2005 SEP is budgeted at \$19.3M, and the proposed fiscal 2005-2010 SEP totals \$33.8M.

Metro Matters

The fiscal 2005-2010 CIP is severely impacted by current and projected funding shortfalls. The Board has defined three urgent priorities - fully funding the IRP, a shortfall of \$524.9M; expansion of the rail fleet and associated support facilities, a shortfall of \$600.7M; and expansion of the bus fleet and facilities, a short fall of \$171.5M.

Recommendations of the Strategic Alliances and Risk Assessment Program are being evaluated and a proposal advanced which would enable the jurisdictional partners to fund the Metro Matters programs in affordable increments, it changes how WMATA manages its capital funds. Implementation of this strategy would initially ease short-term funding burdens and create the ability to fully fund the IRP and portions of the Metro Matters SAP.

Attached to this letter is a separate document, entitled <u>Metro Matters</u>, which describes the importance of obtaining adequate funding for the CIP and the critical nature of immediate investment in the capital program. These include the need to maintain the condition of our facilities and rolling stock to deal with growing levels of overcrowding on our rail and bus systems, and to continue to assure service reliability. This funding is critical to avoid serious degradation of service in the near future and to retain the technical staff at Metro to manage future capital projects.

Conclusion

We continue to live in challenging economic and geopolitical times that have dramatically modified our local and national environments. Despite these pressures, the Authority continues to serve the needs of our region. Our objective in developing the proposed budget is to use the limited resources available as effectively as possible to deliver the greatest return to our passengers and the region for the investment. You may rest assured that the Board of Directors and Authority staff take our responsibility as custodians of this system with the greatest professional seriousness.

On behalf of the Budget Committee of the Board of Directors, I appreciate the opportunity to provide you with the proposed WMATA Operating Budget for fiscal 2005 and the Capital Improvement Program Budget for fiscal 2005 to 2010. I look forward to receiving your comments by May 28, 2004. The Board of Directors is

Mr. Richard K. Taube Page 6

scheduled to take final action on the budgets on June 17, 2004. Thank you for your consideration of this budget request, and for your continued support of WMATA.

Sincerely,

Gladys W. Mack.

Chair, Board Budget Committee

Enclosures

- Original budget proposals by the CEO presented in December, 2003
- Proposal as approved by the Board Budget Committee in April, 2004
- · Table of fare adjustments
- · Table of jurisdictional subsidies
- · Table of FY05 Reimbursable Operating Projects
- Copy of Metro Matters

June 4, 2004

Ms. Gladys W. Mack Chair, WMATA Budget Committee WMATA 600 Fifth Street, N.W. Washington, DC 20001

Dear Ms. Mack:

Thank you for the opportunity to comment on WMATA's proposed FY 2005 operating and capital budget. Our comments, adopted on June 3rd by the full commission, are meant to reinforce the comments of our member jurisdictions. We commend you and your board colleagues, as well as WMATA staff, for producing an operating budget that is cost conscious and that shares the financial burdens with all of WMATA's funding partners, including customers. We recognize that for continued success WMATA and its funding partners will also have to identify funding for its Metro Matters projects that are currently unfunded.

Our specific comments are:

- WMATA must continue efforts to contain costs. Greater use of benchmark indices and peer comparisons is encouraged.
- 2) NVTC endorses WMATA's fare increase proposal;
- NVTC urges continued cooperation with Washington D.C. area transit systems as well as Maryland MTA and its systems to initiate a fully compatible SmarTrip fare collection system as soon as possible;

Ms. Gladys W. Mack June 4, 2004 Page 2

- 4) While discussing funding agreements with the local jurisdictions for Metro Matters projects, WMATA should compile priorities within that list in case local jurisdictions cannot meet the full level of their requested obligations; and
- 5) The WMATA budget schedule is incompatible with local budget cycles and NVTC's deadlines to apply for state assistance for WMATA. NVTC had to apply by February 1, 2004 for FY 2005 state assistance for WMATA's FY 2005 budget. To qualify for that assistance (typically over \$60 million annually) NVTC must provide budgeted WMATA operating and capital costs. Clearly, relying on the General Manager's budget at that early stage results in many discrepancies when the final budget is approved by WMATA in June. A related problem is that NVTC was unable to apply for any state assistance for FY 2005 for Metro Matters projects given their unfunded status in WMATA's budget. NVTC urges WMATA to start its budget cycle much earlier so that local governments can adopt their own budgets each spring with more certainty and NVTC can seek the full amount of state aid for WMATA to which its jurisdictions are entitled.

We appreciate the vital role played by WMATA in this region's mobility, air quality and energy conservation. WMATA faces an ever increasing leadership challenges in helping all of our transit systems develop cooperative approaches to security and emergency response, fare collection, technological innovation and seamless, customer-friendly service.

Please feel free to contact me with any questions about these NVTC comments.

Sincerely,

William D. Euille Chairman

Cc: Hon. Dana Kauffman Hon. Kathy Hudgins Hon. Chris Zimmerman April Proposal



Submission of FY05 Operating and Capital Budgets to Jurisdictions for Comment



Operating Statement Update



Summary of Operating Budget actions...

SM	FY05 Dec. Proposal	Parking	Cmte**	Forecast	Power	3am***	Railcar	Bus	*Comm & Signage	Fare	FY05 Current
Total Revenue	\$502.8	Program \$2.5	Savings \$0.5	Adj's \$0.6	Rates \$0.0	Close \$0.3	Deploy. \$0.0	Maps \$0.0	Initiative (\$0.3)	Actions \$28.9	Proposal \$535.2
Total Expense	\$933.9	\$1,4	(\$4.1)	\$0.0	\$1.3	\$1.3	\$0.4	\$0.8	\$0.0	\$0.0	\$935.0
Gross Subsidy	\$431.1	(\$1,1)	(\$4.6)	(\$0.6)	\$1.3	\$0.9	\$0.4	\$0.8	\$0.3	(\$28.9)	\$399.7
Debt Service	\$27.5										\$27.5
Total Subsidy	\$458.6										\$427.2

^{*} To be addressed as a reimbursable operating project

^{**} Includes \$1.4M of paratransit actions - excludes \$400k for supplemental fares

^{*** 3}am close - excludes \$500k for peak fares



Including all Committee approvals...

	Bus & Rail OP			Pa	Total OP		
	Amended FY2004 Budget	Proposed FY2005 Budget	Revised FY2005 Budget	Amended FY2004 Budget	Proposed FY2005 Budget	Revised FY2005 Budget	Revised FY2005 Budget
Revenue	\$485.4	\$528.4	\$531.6	\$2.4	\$3,2	\$3.7	\$535.2
Expenses	\$832.7	\$881,3	\$883.3	\$40.1	\$52.6	\$51,7	\$935.0
Subsidy	\$347.3	\$352.9	\$351.7	\$37.7	\$49.4	\$48.0	\$399.7
		1.6%	1.3%		31.0%	27.3%	3.8%
Fare Adjustment (included in Revenues above)	\$0.0	\$28.6	\$28.7	\$0.0	\$0.2	\$0.2	\$28.9



FY05 Operating Subsidies

(millions)	Rail* & Bus P	aratransit	Subtotal	Debt Serv.	Total	
DISTRICT OF COLUMBIA	\$140.1	\$11.1	\$151.2	\$10.3	\$161.5	
MONTGOMERY COUNTY	\$57.1	\$14.7	\$71.8	\$4.9	\$76.6	
PRINCE GEORGE'S COUNTY	\$64.3	\$15.0	\$79.3	\$4.9	\$84.1	
MARYLAND TOTAL	\$121.4	\$29.6	\$151.0	\$9.7	\$160.8	
CITY OF ALEXANDRIA	\$15.6	\$0.6	\$16.2	\$1.4	\$17.6	
ARLINGTON COUNTY	\$26.0	\$0.6	\$26.6	\$2.7	\$29.3	
FAIRFAX CITY	\$0.7	\$0.1	\$0.8	\$0.0	\$0.9	
FAIRFAX COUNTY	\$46.7	\$6.0	\$52.7	\$3.2	\$55.9	
FALLS CHURCH	\$1.1	\$0.1	\$1.1	\$0.0	\$1.2	
VIRGINIA TOTAL	\$90.1	\$7.4	\$97.5	\$7.4	\$104.9	
COMPACT TOTAL	\$351.6	\$48.1	\$399.7	\$27.5	\$427.2	



Capital Improvement Program Budget Update



FY 2005	(in \$ millions)	March 11th	Current	
Infrastructure	Renewal Program (IRP)	\$290.1	\$290.1	
	oding reduced by \$3.0m based on appropriations of the state of the sta	fata (4/7/04)		
System Acces	ss/Capacity Program (SAP)	\$9.8	\$9.8	
- Ballston Stat	ion Improvements	\$5.9	\$5.9	
- Bus Enhance	ements	\$1.0	\$1.0	
– Earmark: Bu	s (potential)	\$2.9	\$2.9	
System Expar	sion Program (SEP)	\$11.3 \$9.3	\$19.3 \$9.3	
– Project Deve	lopment	\$2.0	\$2.0	
- Dulles Corrid	lor LPA Phase 1 PE *	N/A	\$8.0	
Total CIP		\$311.2	\$319.2	

^{*} Contingent on FTA approval to advance PE and funding



FY 2005 (in \$ millions)	Ma	rch 11th		Current
Infrastructure Renewal Program (IRP)				
Repayment of Debt				
Vertical Transportation	S	6.0	S	6.0
Liquidate TIFIA Obligations				
Subtotal	\$	6.0	\$	6.0
Project Programming				
Rolling Stock: Bus	5	43.3	\$	43.3
Rolling Stock: Rail		5.4		5.4
Passenger Facilities		67.2		67.2
Maintenance Facilities		34,5		34.5
Systems		74.8		74.8
Track & Structures		19.4		19.4
Information Technology		4.7		4.7
Program Management & Support		14.4		14.1
Preventive Maintenance		20.7		20.7
Financial Transactions				-
Subtotal	\$	284_1	\$	284.1
Total IRP	\$	290.1	5	290.1
System Access/Capacity Program (SAP)				
Ballston Station Improvements	\$	5.9	S	5.9
Bus Enhancements		1.0		1.0
Earmark: Bus (potential)		2,9		2.9
Total SAP	\$	9.8	\$	9.8
System Expansion Program (SEP)				
Largo Extension & Parking	\$	9.3	\$	9.3
Project Development		2.0		2.0
Dulles Corridor LPA Phase I PE *		~		8.0
Total SEP	\$	11.3	\$	19.3
Total CIP	S	311.2	S	319.2

^{*} Contingent on FTA approval to advance PE and funding



Infrastructure Renewal Program (IRP)

- Procure 75 CNG buses and design 3rd CNG Facility
- Continue Escalator and Elevator rehabilitation and maintenance
- Continue Station Enhancements, Tunnel and ROW Track and Structures Rehabilitation
- Continue ATC and Power System Replacement, UPS/Electrical Systems Rehabilitation and Fare Collection Equipment Replacement
- Continue Security Program to support backup operations control center and other initiatives

System Access/Capacity Program (SAP)

- Continue Bus Enhancement Program
- Continue Ballston Station improvements
- Implement Bus Earmark

System Expansion Program (SEP)

- Complete Largo Extension and Parking Project
- Complete New York Avenue In-Fill Station Project
- · Continue Project Development initiative
- Continue Dulles Corridor LPA Phase I Preliminary Engineering (contingent on FTA approval to advance PE and funding)



FY05 Funding Summary

(in millions \$)		IRP		S	AP		,	SEP		1	Total
Budget	\$	290.1		\$	9.8		s	19.3		\$	319.2
Funding:							10				
Federal Grants		159.4	1/		2.4						161.8
District of Columbia		36.5			0.6			0.7			37.8
Maryland											
Montgomery Co.		16.7			0.3			0.3			17.3
Prince George's Co.		19.1			0.3			0.4			19.8
Maryland/Federal								9.3			9.3
Subtotal		35.8			0.6			10.0			46.4
Virginia											- Gran
Alexandria		4.4				21		0.1			4.5
Arlington Co.		8.4			6.0			0.2			14.6
Fairfax Co.		13.8			0.2			0.3			14.3
Fairfax City		0.2				2/			2/		0.2
Falls Church		0.3				2/			2/		0.3
Subtotal		27,1			6.2			0.6			33.9
Other Sources		31.2	3/								31.2
DRPT								8.0	4/		8.0
Total	5	290.1		\$	9.8		\$	19.3		\$	319.2

^{1/} Federal funding reduced by \$3.029M as of 04-07-04 2/ Less than \$100K

^{3/} Reprogrammed funds and interest earnings 4/ Contingent on FTA approval to advance PE and funding



Changes in proposed funding...

Grants and Contributions		FY 2005		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010		Total
Federal Grants 1/	\$	159,4	5	173.3	\$ 183.6	\$ 195.1	\$ 210.2	\$ 227.3	S	1,148.8
Local Match for Federal Grants		39.9		43,3	45.9	48.8	52.5	56.8		287 2
Other Local Contributions		59.6		83.5	69.6	53.9	32.9	28.4		328.0
Other Funding Sources 2/, 3/		31.2		13.7	19.7	6.0	6.0	6.0		82.6
Total	5	290.1	\$	313.9	\$ 318.7	\$ 303.8	\$ 301.6	\$ 318.5	\$	1,846.6

^{1/} FY05 federal funding reduced by \$3.029M as of 04-07-04 appropriations data

^{2/} FY05 balanced by \$1.0M from FY03 rollover, plus \$2.0M from IGF

^{3/} FY06-10 program reduced by \$7.6M to fund design work for Metro Matters (04-15-04 Board Action)



FY05-10 CIP Summary

Infrastructure Renewal Program (IRP)

- Proposed funding at \$1,846 million
 - Liquidate TIFIA obligation of \$600M by end of FY09
 - Repay Vertical Transportation loan by FY10 with designated fare revenue
 - Deferred \$7.6M of FY06-10 work to fund the fast track design of the Metro Matters Second Urgent Priority, rail cars
 - Net \$1,210 million in funds available for projects 66% of Program funds
 - FY04-10 funding shortfall of \$524.8 million 22% of Program (including Metro Matters First Urgent Priority)
- Unfunded security program to support backup operations control center and other initiatives (FY05-10 cost \$143.5M)

System Access/Capacity Program (SAP)

- Continue design work for rail car procurement (Metro Matters Second Urgent Priority)
- Continue Bus Enhancement Program at a rate of \$1.0M per year (part of Metro Matters Third Urgent Priority)
- Unfunded procurement of 120 rall cars to support eight-car trains, necessary for alleviating passenger crowding (Metro Matters Second Urgent Priority) (FY05-10 cost \$600.6M)
- Unfunded procurement of 185 buses and support facility development (Metro Matters Third Urgent Priority) (FY05-10 cost \$171.5M)

System Expansion Program (SEP)

- Complete Largo Extension and Parking project
- Continue Project Development initiative
- Continue Dulles PE (contingent on FTA approval to advance PE and funding) (FY05-10 cost \$12.5M)



SARA Program as presented to Budget Committee on April 22

Baseline Funds Available

Change to an expenditure basis starting in FY 2006

Cash in	Program Year Fiscal Year	2005	2 2006	3 2007	4 2008	2009	6 2010	5-year Total
Funded IRP - Obligations		290.1	313.9	318.7	303.8	301.6	318.5	1,846.6
Unfunded IRP - Expenditures			6.6	27.8	63.7	94.8	114.1	307.0
Total Cash In		290,1	320.5	346.5	367.5	396.4	432.6	2,153.7
Cash Out		- =						
Funded IRP (2005) - Obligations	5	290.1	3. *=-	- 3		4 - 7		290.1
Funded IRP (2006-2010) - Expe	enditures	55	206.0	253.8	339.5	338.2	144.6	1,282.0
Unfunded IRP (2006-2010) - Ex	penditures		6.6	27.8	63.7	94.8	114,1	307.0
Total Cash Out		290.1	212.6	281.6	403.2	433.0	258.7	1,879,1
Surplus/(Gap) ²		Obligation	107.9 Expenditure	64.9	(35.7)	(36.6)	173.9	274.5

SARA Program provides a money management strategy to fully fund the IRP and partially fund the SAP portion of Metro Matters, thus easing the short-term funding burden on state and local jurisdictions.



Funds Available for Projects

(in millions \$)

CIP Program	F	Y 2005	F	Y 2006	F	Y 2007	F	Y 2008	F	Y 2009	F	Y 2010		Total
Infrastructure Renewal Program (IRP)	\$	284.1	9	201.1	9	170 5	9	136.2	Ť			11.07.1	ir.	
System Access/Capacity		204.1	U	201.1	4	179.5	9	130.2	Ф	97.3	Þ	312.5	Þ	1,210.6
Program (SAP)		9.8		1.0		1.0		1.0		1.0		1.0		14.8
System Expansion										7.0		1.0	-	14.0
Program (SEP)		19.3		6.5		2.0		2.0		2.0		2.0		33.8
Total	\$	313.2	S	208.6	\$	182.5	5	139.2	\$	100.3	\$	315.5	\$	1,259.2



→ Approve Transmittal of Operating and Capital budgets with proposed fare increases to jurisdictions review. Request response by 5/28/04



Additional actions...

→ 6/10

- Receive Jurisdictional responses on budgets & fares
- Final Committee mark-ups
- Approve FY05 fare actions
- Approve Multi-year fare action program
- Forward Budgets and approved items to Board of Directors

→ 6/17

Board Adoption of FY05 Operating & Capital Budgets and approved items



Appendix

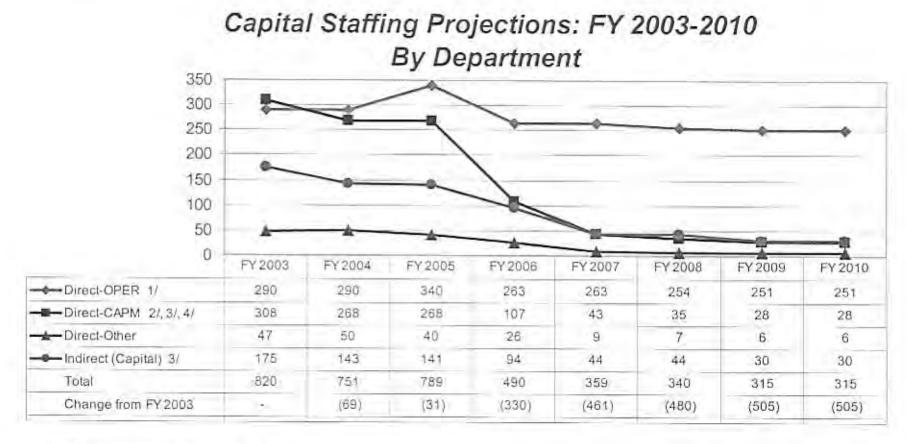
Uses of Funds

IRP		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	Tota
Repayment of Debt				2 - 7552		111 4000	1,1 2010	100
Vertical Transportation		E 000	6.000	6.000	6,000	5,000	6.000	36.00
Liquidate TIFIA Obligations			106 825	133 200	161.600	198.375	0.000	500 00
Suutotai	\$	5,000 \$	112,835 \$	139.200 \$	167,600 \$	204.375 \$	6.000 \$	636,000
Project Programming								
Rolling Stock Bus	S	43.282 5	52.765 5	34,778 \$	23 251 3	14,000 \$	72,620 \$	210.000
Rolling Stock: Rall		5 430	0.814	44419	20201 0	14,000 3	12.020 \$	240,696
Passenger Facilities		67 187	52.027	49 984	31.350	22.557	67.070	6.244
Maintenance Englittes		34 527	21.531	13.625	14.543	8 594	46.070	290.145
Systems		74.784	30 522	40.120	29.243	17.408	64.781	138.890
Track & Structures		19.419	10.295	10.300	9.155	8.995	040000	256.858
Information Technology		4.655	2.000	2.000	1.000	1.000	20.507	78.671
Program Management & Support		14 139	10.431	8.053	6.912		5.000	15.658
Preventive Maintenance		20 700	20.700	20.700		4.000	15,736	59,271
Financial Transactions		267.00	20,100	20,700	20.700	20.700	20.700	124,200
Subtotal	5	284.126 S	201.085 \$	179.530 \$	136,154 \$	97.254 \$	nik in a	
Total	\$	290.126 \$	313.910 5	318.730 \$	303,754 \$	301.629 \$	312.484 S	1,210.633
SAP		EN SAA		all entrette		0.000	. A. J. C.	
Bailston Station Improvements	2	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	Tota
Bus Enhancements	2	5.5	100				5	5.9
Eannark Bus (potential)		1.0	1.6	1.0	1.0	1.0	1.0	6:0
Total	- 1	29	1870					2.9
10141	5	9.8 \$	1,0 \$	1,0 \$	1.0 \$	1.0 \$	1,0 \$	14.8
SEP		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	Total
Largo	5	3.2					S	9.3
Project Development		2.0	2.0	2.0	2.0	2.0	2.0	12.0
Dulles Comdor LPA Priase I PE		8.0	4.5				7100	12.5
Total		19,3	6.5	2.0	2.0	2.0	2,0	33.8
Grand Total	5	319,226 5	321.410 S	321.730 5	306.754 \$	304.629 S	321.484 5	1,895.233
Less Debt Repayment		5.000	112.825	139.200	167.600	204.375	6.000	636.000
Total Available for Projects	5	313.226 5	208.585 \$	182.530 5	139.154 \$	100.254 \$	315.484	1,259.233



FY 2005-2010 CIP

Staffing for Funded Program



Fiscal Year-end changes from March 11th:

^{1/} Added 7 positions for FY05-10 to TRST for Insulator Replacements program

^{2/} Added 7 positions for FY05-10 from TRST reductions in Floating Slab program

^{3/} Added 37direct positions and 2 indirect positions for Metro Matters design work in FY04 and FY05

^{4/} Added 8 positions for FY04 and 52 positions for FY05 Dulles Corridor LPA Phase I PE (contingent upon FTA approval to advance PE, and funding)

Fare Adjustments Table



Proposed FY05 Fare Adjustment

Fare Category	Revenue
Metrorail	\$21.1
Increase peak period boarding charge of \$1.20 to \$1.35	\$11.5
Increase 1st Tier of peak period mileage charges of \$0.21 to \$0.22	\$2.0
Increase 2nd Tier of peak period mileage charges of \$0.185 to \$0.195	\$1.8
Increase the max peak period fare of \$3.60 to \$3.90	-
Increase off peak fares of \$1.20, \$1.70 and \$2.20 to \$1.35, \$1.85, and \$2.35	\$5.8
Increase pass prices proportionally with the Metrorall boarding charge.	-
Metrobus	\$2.0
Increase the boarding charge of \$1.20 by \$0.05 to \$1.25	\$2.0
Increase the boarding charge on express bus from \$2.50 to \$3.00	-
Increase pass prices proportionally with the Metrobus boarding charge.	-
Increase the \$0.85 discount on bus-to-rail transfers by up to \$0.05 to a maximum of \$0.90	-
Parking	\$5.7
Increase parking fee by \$0.75	\$5.2
Increase monthly reserved parking from \$35,00 to \$45,00	\$0.5
MetroAccess	\$0.1
Increase fare from \$2,40 by \$0.10 to \$2.50, double the bus boarding charge	\$0.1
Offer free transit on Metrorail and Metrobus to MetroAccess ADA eligible persons and a companion	-24
Elderly and Handicapped Fares	
Retain Metrobus fares at one-half the boarding charge, rounded down to the nearest \$0.05	-
Retain fares at one-half the peak period fare all day, max fare on Metrorail not to exceed one-	
half the max fare, rounded down to the nearest \$0.05.	-
Subtotal	\$28.9

[•] Ridership Impacts: Metrobus: (- 3,200/day); Metrorail: (-13,900/day)

Jurisdictional Operating and Capital Subsidies Table

FISCAL 2005 APPROVED BUDGET SUMMARY OF STATE/LOCAL OPERATING REQUIREMENTS

	DISTRICT OF COLUMBIA	MONTGOMERY COUNTY	PRINCE GEORGE'S COUNTY	CITY OF ALEXANDRIA	ARLINGTON COUNTY	FAIRFAX	FAIRFAX COUNTY	FALLS CHURCH	TOTAL
METROBUS OPERATING SUBSIDY REGIONAL SUBSIDY NON-REGIONAL	\$82,307,156 \$18,755,371	\$27,976,124 \$5,735,109	\$31,076,102 \$11,874,116	\$9,483,439 \$661,306	\$14,406,842 \$275,000	\$348,966 \$0	\$23,218,684 \$6,215,118	\$751,748 \$0	\$189,569,070 \$43,516,020
TOTAL BUS OPERATING	\$101,062,537 43.4%	\$33,711,233 14.5%	\$42,950,218 18,4%	\$10,144,745	\$14,681,842 6.3%	\$348,966 0.1%	\$29,433,802 12.6%	\$751,746 0.3%	\$233,085,090
METRORAIL OPERATING SUBSIDY	1000								
MAX FARE SUBSIDY	\$38,772,626 \$263,345	\$21,271,778 \$2,107,841	\$20,419,970 \$924,763	\$5,308,876 \$105,512	\$11,275,765 \$72,880	\$346,682 \$40,395	\$16,325,080 \$970,236	\$308,419 \$12,142	\$114,029,195
TOTAL RAIL OPERATING	\$39,035,976 32.9%	\$23,379,619 19.7%	\$21,344,734 18.0%	\$5,414,388 4.6%	\$11,348,645 9.6%	\$387,077 WE.0	\$17,295,316 14,6%	\$320,561 0.3%	\$118,526,310
PARATRANSIT SUBSIDY	\$11,087,387 23.1%	\$14,674,682 30.5%	\$14,990,147 31.1%	\$648,649 1.3%	\$577,111 1.2%	\$86,748 0.2%	\$5,994,362 12,5%	\$67,613 0,1%	\$48,096,700
SUBTOTAL OPERATING SUBSIDY	\$151,185,894	\$71,765,634	\$79,255,098	\$15,207,782	\$26,607,598	\$822,792	\$52,723,480	\$1,139,921	\$399,708,100
DEBT SERVICE	\$10,331,300	\$4,867,500	\$4,872,900	\$1,418,200	\$2,740,200	\$46,700	\$3,168,900	\$38,500	\$27,484,200
TOTAL SUBSIDY	\$161,517,194	\$76,633,034	\$84,127,998	\$17,625,982	\$29,347,798	\$869,492	\$55,892,380	\$1,178,421	\$427,192,300
	37.8%	17.9%	19.7%	4.1%	8.9%	0.2%	13.1%	D:3%	



Washington Metropolitan Area Transit Authority FY05 Funding Summary

(in millions \$)	IRP		S	AP		9	SEP		9	Total
Budget	\$ 290.1		\$	9.8		\$	19.3		\$	319.2
Funding:										
Federal Grants	159,4	1/		2.4						161.8
District of Columbia	36.5			0.6			0.7			37.8
Maryland										
Montgomery Co.	16.7			0.3			0.3			17.3
Prince George's Co.	19.1			0.3			0.4			19.8
Maryland/Federal							9.3			9.3
Subtotal	35.8			0.6			10,0			46.4
Virginia										
Alexandria	4.4				2/		0.1			4.5
Arlington Co.	8.4			6.0			0.2			14.6
Fairfax Co.	13.8			0.2			0.3			14.3
Fairfax City	0.2				2/			2/		0.2
Falls Church	0.3				2/			2/		0.3
Subtotal	27.1			6.2			0.6			33.9
Other Sources	31.2	3/								31.2
DRPT							8.0	4/		8.0
Total	\$ 290.1		\$	9.8		S	19.3		\$	319.2

^{1/} Federal funding reduced by \$3.029M as of 04-07-04 2/ Less than \$100K

^{3/} Reprogrammed funds and interest earnings 4/ Contingent on FTA approval to advance PE and funding

Reimbursable Operating Project Tables

SUMMARY REIMBURSABLE OPERATING PROJECTS FISCAL YEAR 2005

(In millions of dollars)

Service	Expense	Revenue	Subsidy
Laurel - Burtonsville Express	\$0.16	\$0.03	\$0.13
College Park - Bethesda	\$0.56	\$0.10	\$0.47
Crofton - New Carrollton	\$0.23	\$0.02	\$0.21
Comm. & Signage Init.	\$0.34	\$0.34	\$0.00
Greenbelt - BWI	\$1.30	\$0.22	\$1.08
Charles County Service	\$0.77	\$0.07	\$0.70
Hybrid-Electric Bus Service	\$0.58	\$0.03	\$0.56
Springfield Circulator	\$0.52	\$0.06	\$0.46
Metro Park Shuttle	\$0.19	\$0.01	\$0.18
Springfield Shuttle	\$0.20	\$0.08	\$0.12
Tyson's Reverse Commute	\$0.28	\$0.01	\$0.26
Van Pools	\$0.22	\$0.00	\$0.22
Access-to-Jobs	\$0.36	\$0.00	\$0.36
Total	\$5.71	\$0.96	\$4.75



Washington Metropolitan Area Transit Authority

Pike Transit Initiative Columbia Pike/Leesburg Pike Alternatives Analysis Project Overview and Status

Presented to:
Planning, Development and Administration Committee

Department of Planning and Strategic Programs
Office of Business Planning and Project Development
May 6, 2004





Purpose

- Inform the committee of progress related to the Columbia Pike Alternatives Analysis.
- Provide the committee with an update of the corridor definition and modes under consideration.
- Present the committee with the schedule and planned public involvement activities.



Pike Transit Initiative

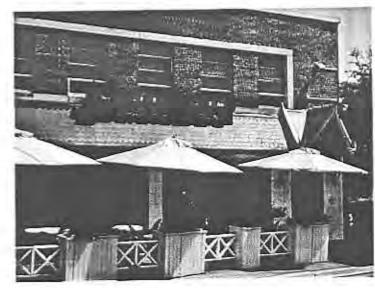
· What is it?

> A year long study of alternative rail and bus investments in the corridor to support ridership demand and corridor vision.

 The study is funded at \$650,000 through the WMATA FY'04 and '05 Project Development Program.

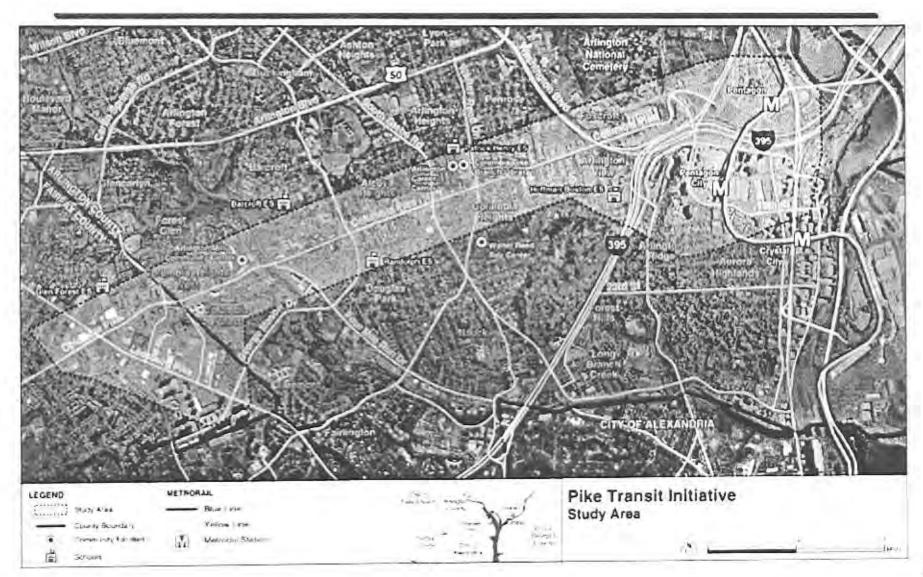
Decisions include mode, alignment and stop locations for light rail or bus rapid transit between Pentagon City and Bailey's Crossroads.







Corridor Definition



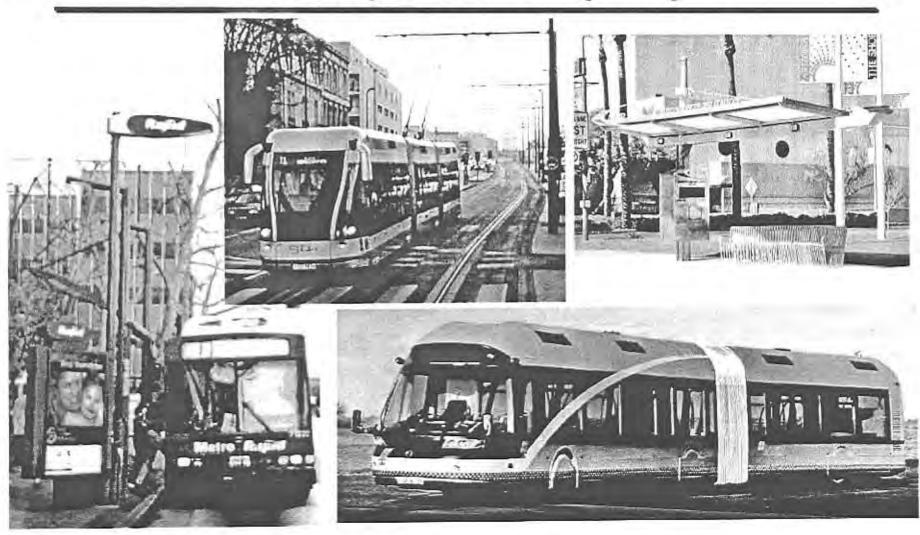


Pike Transit Initiative

- What makes transit investment a high priority in this corridor?
 - This corridor supports nearly 12,000 bus trips and 50,000 vehicles per day.
 - Population and employment are projected to increase significantly.
 - Existing mobility and development pressures have created a need to expand the carrying capacity for intra- and inter-corridor travel.
 - Arlington County recently adopted the Form-based Code, Columbia Pike Initiative, and Streetscape Taskforce Recommendations to define and implement their corridor vision.
 - WMATA recently completed engineering feasibility to identify potential impacts of alternative alignments and modes.

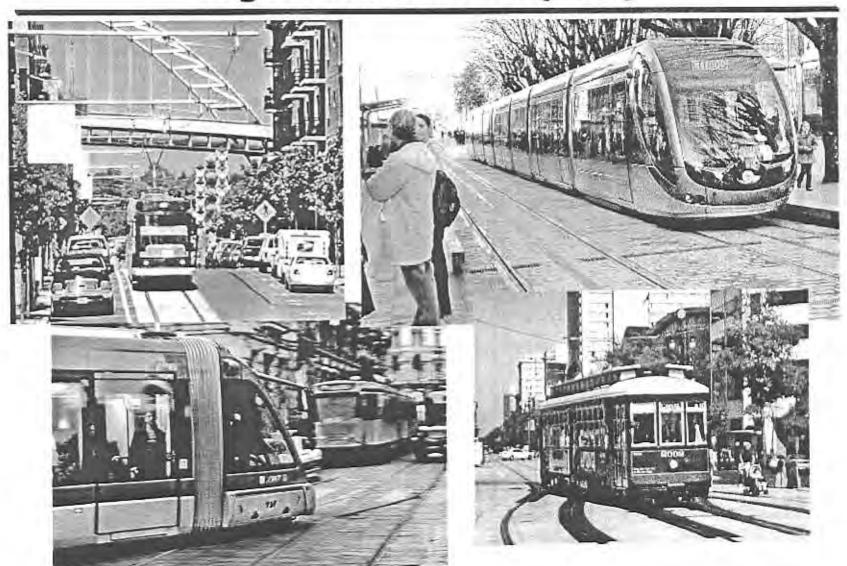


Metro Tomorrow: Bus Rapid Transit (BRT)





Metro Tomorrow: Light Rail Transit (LRT)







Corridor Development Process

DECISIONS	Related Arlington, Fairfax and WMATA Plans					
	Constrained Long Range Plan, 1998					
Does the current system	WMATA Transit Service Expansion Plan, 1999					
work?	Northern Virginia 2020 Plan, 1999					
	10 Year Capital Improvement Plan, 2002					
	Regional Bus Study, 2002					
water a second second second	Columbia Pike Initiative-Revitalization Plan, 2002					
What are the problems	Columbia Pike Phase I Study					
or needs?	Columbia Pike Phase II Study, 2002					
	Baileys Planning District, 2003					



Corridor Development Process

	DECISIONS	Related Arlington, Fairfax and WMATA Plans
WE ARE	Committee (Tage To	Pike Transit Initiative, 2004
	What are the options?	(select preferred mode, alignment, and stops to proceed into NEPA and PE)
	EXPORT THE TOTAL PROPERTY.	Environmental analysis and documentation
	What are the costs and benefits?	Mitigation plan
		Identification of funding sources
	All the second second second	Select NEPA locally preferred alternative (LPA)
1	What is the preferred option?	Environmental finding
		Financial plan
	110	Permits
	How can we get it done?	Funding



Benefits and Challenges (New Starts Criteria)

Criterion	Measure(s)
Mobility Improvements	 Normalized Travel Time Savings (Transportation System User Benefits per Project Passenger Mile) Low-Income Households Served Employment Near Stations
Environmental Benefits	 Change in Regional Pollutant Emissions Change in Regional Energy Consumption EPA Air Quality Designation
Operating Efficiencies	System Operating Cost per Passenger Mile
Cost Effectiveness	 Incremental Cost per Hour of Transportation System User Benefit
Transit Supportive Land Use and Future Patterns	Existing Land Use Transit Supportive Plans and Policies Performance and Impacts of Policies
Other Factors	 Number of optional factors, including economic impact of the project.



Public Involvement

ACTIVITIES	SPRING	SUMMER	FALL	WINTER
Briefings to	PSIARE			
Elected Officials				
Community Meetings	NAME AND ADDRESS OF THE PARTY O		Service Straight W	i i
and Events	用器性实验			
Design Dialogue				
Workshop				
Newsletter				ħ.
Mailings				
Project Website	安全 公司	等 经		
and Hotline	15 20 1	74 T 4=	i	4 yr - 1 ''



Schedule / Next Steps

	SPRING	SUMMER	FALL	WINTER
Alternatives	100			
Development	(18 to 1)			
Design	1700			
Dialogues				
Technical				
Analysis				
Alternatives			- Designation	
Evaluation			一, 一种企业的特别的一种和	
Selection of the Locally				1000
Preferred Alternative				
Final				7
Report				
Public Involvement	•Stakeholder	•Storefront	•Project Newsle	
Program	Outreach	Displays	•Project Website	9



PRESENTED: May 20, 2004

SUBJECT: RAIL CAR DEPLOYMENT PLAN

Proposal

PROPOSED RESOLUTION OF THE BOARD OF DIRECTORS OF THE WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WHEREAS, The Board of Directors on May 17, 2001 approved the Rail Car Deployment Plan outlining the line-by-line deployment of the 5000-Series rail cars; and

WHEREAS, The 5000-Series rail cars were deployed as they were received on the green, yellow, blue and orange lines, as outlined in the approved Rail Car Deployment Plan (May 17, 2001); and

WHEREAS, The service improvement for the red line was scheduled to be implemented after the delivery of the last cars of the 5000-Series rail car procurement; and

WHEREAS, The Staff presented the Red Line Service Improvement (42 rail cars to the red line) at the Operations and Safety Committee Meeting on February 26, 2004, and

WHEREAS, The Staff presented an updated discussion of the Rail Car Deployment at the April 22, 2004 Operations and Safety Committee Meeting; and

WHEREAS, The Operations and Safety Committee desires to ensure near equal and average peak passenger loading across all lines based on the average passengers per car (PPC); and

WHEREAS, The Operations and Safety Committee adopted a revised line-by-line deployment to redistribute assigned peak rail cars and recommended it to the Board; and the Board amended the motion; and

WHEREAS, The Board Budget Committee included \$400,000 in the Proposed FY 05 Budget as an estimate of the increased subsidy plan; now, therefore, be it

RESOLVED, That the Board of Directors reaffirms its approval of the Rail Car Deployment Plan as originally approved on May 17, 2001 and as modified by the attached tables; and be it further

RESOLVED, That the operating subsidy in the Proposed FY 05 Budget be increased by \$298,800 to implement the Revised Rail Car Deployment Plan; and be it further

RESOLVED, That the effective date of this action be June 28, 2004.

Reviewed as to form and legal sufficiency.

Cheryl C. Burke, General Counsel

Table A Revised Rail Car Deployment Plan Originally Approved April 2001

Line	Implemented Service Improvement As Approved	Car D Current Board Approved	eployment Revised Plan	Net
Green	Add 1 6-car tripper train	114	120	+6
Yellow	No Change	56	56	O
Blue	Convert 1 4-car train to a 6-car train	106	108	+2
Orange	Convert 3 4-car tripper trains to 3 6-car tripper trains	184	190	+6
Red	No change 5 minute headway, all 6-car trains	264	264	0
GAP	Reduce desired GAP trains from 6 to 5	36	22	-14
	Daily Rail Car Deployment	760	760	0

TABLE B Revised Rail Car Deployment Plan Passenger Per Car (PPC) Loading Analysis

	Pre April 2004 Peak Hour Peak Hour		With April 2004 Deployment (a) Peak Hour		With Revised Deployment (b) Peak Hour			
Line/Side Deployment	t Ridership	Cars	PPC	Cars	PPC	Cars	PPC	
Green/Branch Ave	7,433	72	103	72	103	78	95	
Green/Greenbelt	4,667	60	78	60	78	60	78	(c)
Yellow/Huntington	5,200	56	93	56	93	56	93	
Blue/FrancSpringfield	5,533	54	102	54	102	56	99	
Blue/Addison	4,111	50	82	50	82	50	82	(c)
Orange/Vienna	11,020	108	102	108	102	114	97	(ct)
Orange/New Carrollton	6,567	74	89	74	89	76	86	(c)
Red/Shady Grove	12,766	120	106	144	89	144	89	7
Red/Glenmont	12,535	120	104	144	87	144	87	

- (a) April deployment was the addition of 42 cars to the Red Line to reduce the headway
- (b) Deployment is the substitute resolution to add 42 cars to Red line; 6 cars to Green Line, 2 cars to Blue Line and 6 Cars to Orange Line
- (c) The number of cars operated on these portions of the line during the peak periods is driven by ridership demand in the opposite direction
- (d) The Orange Line is operating at maximum capacity based on 6 car trains and the present service pattern of 19 train trips in the peak hour

	Table C	
Revised Ra	il Car Deployment Plan	
Su	bsidy Impact	
Line	Cost	
Green	\$206,500	
Yellow	No Change	
Blue	\$186,000	
Orange	\$306,300	
Red	No Change	
Subtotal	\$ 698,800	
Included in Proposed FY 05 Budget	\$400,000	
Net Subsidy	\$298,800	

Subsidy Change Allocation

All jurisdictions share subsidy requirements based on Rail formulas

Jurisdiction	Rail Subsidy Allocation	FY 05 Subsidy Change
District of Columbia	34.0%	\$101,592
Montgomery	18,7%	\$55,876
Prince George's	17.9%	\$53,485
Maryland	36.6%	\$109,361
Alexandria	4.7%	\$14,044
Arlington	9.9%	\$29,581
City of Fairfax	0.3%	\$896
Fairfax County	14.3%	\$42,430
Falls Church	0.3%	\$896
Virginia	29.4%	\$87,847
Total	100.0%	\$298,800

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Rick Taube

DATE: May 27, 2004

SUBECT: Legislative Items

A. Review of 2004 General Assembly Session and Prospects for 2005.

With the General Assembly now adjourned, additional members should be present to offer reactions to the 2004 session and advise about how to advance the commission's agenda in 2005.

B. No Bus Fare Buydown Funds in Six-Year Program.

The final compromise budget adopted by the General Assembly hurt NVTC's financial prospects in several ways discussed at earlier meetings. Now, an administrative decision may also cost NVTC's jurisdictions an additional loss of anticipated future funding.

For FY 2005 and beyond, it appears that VDOT programmers have not honored the commonwealth's long-standing commitment to provide over \$800,000 annually to the region for bus fare buydowns. Former Transportation Secretary Martinez wrote on February 14, 1996 that the commonwealth would provide these funds each year to help defray the revenue impact on Metrorail from a decision to relax HOV restrictions on I-66. NVTC staff assisted the region in deciding on the best use of these funds, which through FY 2004 have helped boost bus and rail ridership in areas such as the I-66 corridor, the Dulles corridor, Franconia/Springfield and the Route 1 corridor.

Staff of the region's transit systems believe the bus fare buydown program is effective and should continue. Local jurisdiction and agency staff are working to develop a new multi-year plan to continue to rotate the funds among corridors and areas that will benefit from bus fare reductions.

Accordingly, the commission is asked to authorize its chairman to send the attached letter to Secretary Clement expressing the commission's request that the commonwealth continue to honor its \$808,000 annual commitment, use funds that would not otherwise be dedicated to the region to live up to the spirit of Secretary Martinez's letter, and program \$808,000 for each year in the commonwealth's six-year program.

C. Federal Legislation.

Currently there is little to report about the reauthorization of TEA-21 (extension expires at the end of June, 2004 with the Senate finally agreeing to name its conferees), FY 2005 appropriations or Amtrak reform. FRA Administrator Rutter, a VRE customer and supporter, has resigned and is returning to Texas. The Senate has passed its "Jobs Opportunity" bill which includes a retroactive prohibition on leveraged transit leases. NVTC opposes that prohibition.

June 4, 2004

The Honorable Whitt Clement Secretary of Transportation Commonwealth of Virginia 202 North 9th Street, Room 523 Richmond, Virginia 23219

Dear Secretary Clement:

On February 14, 1996, former Secretary Martinez wrote to WMATA's General Manager urging the WMATA Board to support a reduction in HOV restrictions on I-66. WMATA and our Northern Virginia jurisdictions were concerned that the new policy would reduce Metrorail revenues and would threaten our air quality. The secretary wrote:

In order to mitigate the air quality impacts and to help offset revenue loss, I have agreed to a total of \$800,000 annually to be spent on transportation control measures, should the decision be made to continue HOV-2 on I-66....These measures, involving bus fare buydowns, would...restore the region's air quality conformity....

Since then the commonwealth has provided \$808,000 annually which this region has applied to bus fare buydowns in various corridors and areas decided with the help of NVTC. Unfortunately, for most of these annual payments, the Commonwealth Transportation Board has programmed a portion of Northern Virginia's own primary allocation for this purpose, which in our view fails to live up to the secretary's promise. And, we are informed that the draft six-year transportation program does not reflect a continuation of bus fare buydowns for FY 2005 and beyond.

The Honorable Whitt Clement June 4, 2004 Page 2

We respectfully ask that you and the Commonwealth Transportation Board restore to the six-year program the annual stream of \$808,000 payments. Local jurisdiction and agency staff are working to develop a new multi-year plan to use the funds effectively in appropriate regional transit corridors. We ask further that you honor the spirit of the commitment made in writing by Secretary Martinez by selecting a source of funding for this state responsibility that does not simply take the money from funds otherwise allocated to this region.

We would be pleased to respond to any questions you may have about our request.

Sincerely,

William D. Euille Chairman

cc: Richard White
Kirby Bowers
Ron Carlee
Anthony Griffin
Dan McKeever
Robert Sisson
Philip Sunderland
Kenny Klinge
Judy Connolly
Tom Farley



George Allen Generale

Robert B. Martines

February 14, 1986

Mr. Lawrence G. Reuter General Manager Washington Metropolitan Area Transit Authority 600 Fifth Street, NW Washington, D.C. 20001-2693

Dear Mr. Reuter.

We are nearing the end of the demonstration project for HOV-2 on I-66 and I am asking WMATA to take an official position in support of continuing HOV-2 at your regular board meeting on February 22, 1996. It is our intention to maintain HOV-2 restrictions on I-66 until either of the project termination thresholds is reached which include an average comdor speed of below 40 miles per hour or a traffic volume above 1,950 vehicles per hour per lane over a period of two consecutive weeks. Strict enforcement of the HOV restrictions will continue. The National Capital Region Transportation Planning Board will be asked to vote on this issue at their February 21 meeting.

In order to mitigate the air quality impacts and to help offset revenue loss, I have agreed to a total of \$600,000 armually to be spent on transportation control measures, should the decision be made to continue HOV-2 on I-66 and to continue until the agreed thresholds are reached. These measures, involving bus fare buy-downs, would meet the technical 'excess emissions' and restore the region's air quality conformity status per the regional modelling used in this paper exercise. Furthermore, the Commonwealth will work with WMATA to construct an additional 1,000 space parking structure at the Vienna Metrorali Station utilizing the Public Private Transportation Act authorizing legislation. I believe this particular effort could be an exciting challenge.

Mr. Lawrence G. Reuter February 14, 1996 Pago Two

You and your staff have been cooperative throughout this process and I hope that your hoard will be able to support the continuation of HOV-2 on I-66. Thank you for your continued assistance.

Sincerely,

Robert E. Martinez

REM/ow

CO: Mr. Leo J. Bevon

Mr. David R. Gehr

Mr. T. F. Farley Mr. W. C. Joifrey

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Rick Taube and Adam McGavock

DATE: May 27, 2004

SUBJECT: Additional Funding for Regional SmarTrip Farebox Consulting

As part of a \$5 million partnership to provide fully compatible SmarTrip fare collection for all of the transit systems in Northern Virginia, IBI Group was originally contracted in January of 2002 to provide technical support services to NVTC. NVTC provided \$200,000 in federal funding with DRPT providing \$50,000 in matching funds. The technical support services included participation in the regional design review process, participation in regional partner meetings, participating in the testing process, assisting with the delivery and installation of equipment, assisting with training, coordinating warranty agreements, arranging the sale of old fareboxes, assisting with marketing and promotions, assisting VRE with integrating SmarTrip with their current fare collection system, and integrating the new fareboxes with existing GPS/AVL systems. This contract was amended in April of 2002 to include Loudoun County. The amended contract added \$34,000 in state funds for a total of \$284,000.

NVTC is now seeking an additional \$36,700 in funds from DRPT to cover the costs of extending this contract until September of 2005. The commission is asked to authorize its executive director to amend the contract with IBI Group for that purpose subject to the availability of funds from DRPT.

The original schedule for this contract was to be complete by May of 2003. At this time, current tasks are approximately two years behind schedule. IBI Group did not affect the delay; the loss of schedule was caused by delays related to the WMATA In Service Qualification Testing (ISQT). The start of ISQT was delayed by several months, and the testing was extended for sixteen months. Instead of being completed in May of 2002, the WMATA ISQT was completed in March of 2004. This delay has caused several problems with NVTC's IBI contract. While the region waited an additional 16 months for the successful completion of the WMATA ISQT, the regional design meetings and regional partner meetings continued to be scheduled. As NVTC's technical

representative, IBI needed to be in attendance at these meetings. The result is that IBI attended an additional sixteen months worth of meetings and design sessions, far more than anticipated in the original scope of Task One of this project. That has resulted in substantial cost overruns for Task One.

In addition, the hourly rates for the consultant team have increased substantially in the two years since the contract was initiated. The lead project manager from the IBI team, Jeremy Siviter, has accepted a position with another consulting firm (Mixon Hill) with a large increase in his hourly rate (\$113 to \$157). Mr. Siviter has been an integral participant in every aspect of this project from the beginning, and his experience and knowledge of the issues would be very difficult to replace at this stage. In order to keep his services for this project, NVTC is requesting additional funding from DRPT. NVTC is also re-arranging several tasks to reduce his hours by focusing his contributions on the most critical areas, while assigning less critical tasks to less costly members of the consultant team. NVTC has also eliminated several tasks that are no longer necessary or feasible, such as the selling of the old fareboxes, the VRE integration tasks (now being performed using federal funds obtained by VRE), the marketing support (now being performed by jurisdictional staff), and the GPS/AVL integration. While NVTC is asking DRPT for some additional funds, the commission staff is making every effort to minimize that request, and get the most out of the funds available.

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Rick Taube

DATE: May 19, 2004

SUBJECT: Forecasts of Yields of NVTC's Two Percent Motor Fuels Tax

In light of the sharp increase in motor fuels prices recently, the commission asked staff to illustrate the likely increase in revenues from the commission's two percent motor fuels tax if these increases persist. Commission staff has not in the past forecast yields from this tax, preferring to use historical averages as benchmarks. Varying prices, different driving habits and vehicle fuel efficiency changes can all influence NVTC's gas tax revenues. Forecasting these variables is perilous.

MSNBC, in an April 8, 2004 feature produced by John Schoen, summed up the accuracy of forecasts of gasoline prices:

And while some spend a fortune developing complex computer models to crunch piles of data, no one has yet come up with a reliable crystal ball.

PRTC staff projects the proceeds of its two percent motor fuels tax twice each year (late fall and early January) to assist local governments with budgeting. These forecasts are for the remainder of the current fiscal year, the next fiscal year and five years. Future prices are taken from Department of Energy sources and gallons of gasoline sold statewide are taken from the Virginia Department of Motor Vehicles. Samples of PRTC's forecasts and methodology are attached for your information. As can be seen, DOE forecasts the FY 2005 price of gasoline at \$1.48 per gallon and for FY 2006 at \$1.45 per gallon.

The Market for Petroleum and Gasoline

Factors influencing the demand and supply for petroleum have driven prices up sharply to over \$41 per barrel. According to a Washington Post story on May 15, 2004, OPEC cut production by four percent in March, 2004.

From a recent low of about \$20 per barrel in January, 2002, oil futures prices on the New York Mercantile Exchange have climbed steadily to reach \$41 a barrel today for June, 2004 delivery. This is the highest level since 1984. U.S. refineries are running at 96 percent of capacity; oil imports are up nearly 135,000 barrels a day since January, 2004; international demand is up 2 million barrels a day since January, 2004; oil reserves are 6 percent below the five-year average; and the U.S. Department of Energy has increased its forecast for future U.S. consumption to 120 million barrels a day by 2025 from 80 million today.

Some believe speculators are driving the demand and the bubble will burst soon. But others believe fundamental economic forces are driving worldwide demand (e.g. China's growing economy) so that prices will trend higher in the future.

Additional factors affecting the price of gasoline include higher freight rates, imports of high-sulfur gasoline are down 2 million gallons a week from Venezuela due to environmental restrictions; and inventories are lower than normal by 200 million barrels. Prices of gasoline show a typical seasonal pattern, reaching a peak around Memorial Day.

A rule of thumb to predict whether refineries have an incentive to increase gasoline production is to multiply the futures price of gasoline for the nearest month by 42 and compare that to the price of crude oil. A difference of \$10 or more is considered high and signals more production is on the way. Gasoline at \$2 per gallon and crude oil at \$41 per barrel today produces a large differential of \$43.

Sources of Gasoline Prices

The American Automobile Association website tracks gasoline prices by metropolitan areas including the District of Columbia, Suburban Maryland and the Washington D.C. metropolitan area (unfortunately not for Northern Virginia). Values are shown each day for unleaded regular gasoline for "current," "yesterday," "month ago" and "year ago." As of May 7, 2004, the values for the D.C. Metropolitan area are \$1.84, \$1.82, \$1.75 and \$1.58 respectively. This is shown as the highest price ever recorded by AAA.

Nationally, the AAA website shows a sharp increase since June 1, 2003 (\$1.48) to the present (\$1.84 per gallon).

To place these values in historical context, the April 8, 2004 MSNBC feature showed the U.S. Department of Energy's historical values for the inflation adjusted price of unleaded regular gasoline in the U.S. (prior to 1979 the volumes shown are for leaded regular):

<u>Year</u>	Cost at the Time	Cost in \$2004
1919	\$0.25	\$2.75
1929	0.21	2.34
1939	0.19	2.52
1949	0.27	2.10
1959	0.31	1.96
1969	0.35	1.77
1979	0.84	2.21
1989	1.02	1.48
1999	1.17	1.27

This shows that gasoline approaching \$2.00 per gallon in today's prices is not out of the ordinary when factoring in inflation.

Gallons of Gasoline Sold in NVTC Jurisdictions

NVTC receives monthly payments from the Virginia Department of Taxation, but the department does not report gallons of gasoline. In the attached table, gallons sold per jurisdiction are imputed from total motor fuel tax revenue by dividing by an assumed average price, in this case the all grades price from the U.S. Department of Energy for the mid-Atlantic region. As can be seen for the year ending in November, 2003, total gallons sold in NVTC's district are about 665 million, producing tax revenue (at two percent of the pump price) of \$21.6 million for that period.

Estimated NVTC Motor Fuels Tax Annual Yields

Using the gallons estimated as just described and assumed prices ranging from \$1.50 to \$2.50 per gallon, the attached table shows how the yield from NVTC's two percent tax varies by jurisdiction. For each 10-cent increase in the average price per gallon, NVTC collects an additional \$1.3 million annually. If gas prices were to rise to \$2.50 and hold for a year, compared to a more typical average of \$1.50 per gallon, NVTC's overall yield would increase by over \$13 million.

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Rick Taube

DATE: May 27, 2004

SUBJECT: Dedicated Sources of Transit Funding in other Jurisdictions

At its May 6th meeting the commission examined information about the yields of various revenue sources that might be used in this region to help fund our transportation systems. Because many of the estimates were derived from 1997 work by a consultant to TPB, the commission asked that Ron Kirby be contacted with the request that TPB update the estimates. The commission's request is attached for your information together with the reply from Gerry Miller of TPB staff.

Also at the May 6th meeting commissioners asked for information about the sources of dedicated funding used in other urban areas to pay for their transit systems. The National Transit Database lists this information and copies are attached. The following are examples of dedicated local and regional sales taxes (\$millions annually) for transit capital expenses:

Phoenix-- \$38
Los Angeles (MTA) -- \$28
Santa Clara -- \$135
San Francisco (Muni) -- \$33
Santa Monica -- \$33
Chicago (CTA) -- \$33
Chicago (Metra) -- \$60
Seattle (Sound Transit) -- \$170
Seattle (King Co.) -- \$75
BART -- \$40
Atlanta -- \$107
Houston -- \$149

Also attached is a summary chart compiled by WMATA from APTA using NTD data. It shows WMATA with a paltry two percent of its operating funding from dedicated funds (NVTC's gas tax). Other systems receive a much greater share of operating revenues from dedicated sources, such as Los Angeles (62 percent), Dallas (87 percent) and Denver (59 percent). On the capital side, WMATA receives none while other systems receive much more, such as Miami (45 percent), Dallas (65 percent), Houston (66 percent) and Denver (69 percent).

Finally, a letter is attached from Ed Tennyson who provides information about shares of state and local funding by transit system.

Ron Kirby
Director, Transportation Planning
MWCOG
777 N. Capital Street, NE
Washington, DC 20002-4239

Dear Mr. Kirby:

At its meeting of May 6, 2004, NVTC reviewed the attached document that contains a compilation of forecasts of the regional revenue yields of various taxes and fees. Some combination of these could be used to begin to meet the funding shortfalls for our region's transportation system.

During the discussion it was noted that TPB's contractors, Price Waterhouse LLP, had produced a comprehensive set of revenue yield estimates in 1997 (attached). Many other estimates we found were subsequently derived from those original estimates. Accordingly, the commission asked me to contact you to request that you update the original estimates.

We believe that the results will be of substantial interest to all of our state, regional and local government agencies with responsibility for funding transportation. Since it is not clear that the same bundle of taxes and fees would ultimately be selected for implementation by Maryland, the District of Columbia and Virginia, we ask further that whenever possible you report the results of your update separately for those three jurisdictions.

Mr. Ron Kirby May 7, 2004 Page 2

Please feel free to contact me with any questions or to request the help of NVTC staff in completing this update.

Sincerely,

Richard K. Taube Executive Director

cc: Hon. Chris Zimmerman

METROPOLITAN WASHINGTON



COUNCIL OF GOVERNMENTS

Local governments working together for a letter metropolism region

MEMORANDUM

District of Columbia

Bowle

Collaga Park

Frederick County

Gailhersburg

Greenbell Montgomery County

Prince George's County

Rockville Telescop Res

Takoma Park Alexandria

Adington County

Foirtax

Faidax County Falls Church

Loudoun County Manassas

Prince William County

May 25, 2004

TO:

Richard Taube

Executive Director

Northern Virginia Transportation Commission

FROM:

Gerald K. Miller

Chief, Program Coordination

Department of Transportation Planning

RE!

Update of Forecasts of Regional Revenue Yields

In response to your letter to Mr. Ronald Kirby of May 7, 2004 requesting that the Transportation Planning Board (TPB) update the 1997 forecasts of regional revenue yields, I recently spoke with Ms. Jana Lynott of your staff regarding what might be involved in conducting such an update. These revenue forecasts were developed by a major consulting firm as a task under the development of the 1997 financial plan for the constrained long-range transportation plan (CLRP). The estimates were based upon a fee, tax, or surcharge implemented uniformly across the region and were illustrative of the gross revenue potential. The revenue estimates required assembling data on the current tax or fee yields by jurisdiction and then forecasting how they changed and grew over a 24-year period from 1997 to 2020. The data and forecasting assumptions were developed in consultation with state and local jurisdiction staff throughout the region.

In order to update the forecasts of potential regional revenues for the current 2003 CLRP which covers the period 2003 to 2030, I would recommend that a request for proposal be prepared to conduct the analysis and that a consulting firm with this type of forecasting experience be selected. I estimate that this type of update for six or so sources of revenues would cost about \$20,000 and could be conducted in about two months. The TPB's basic work program and budget in the FY 2005 Unified Planning Work Program (UPWP), which begins July 1, does not include such an update. However, it is possible that VDOT could fund such an update under its technical assistance work program in the UPWP.

cc: Ron Kirby

	and the second	-
Percent	Dedicated	Funding

	Transit System	Operating	Sources of Funding	Capital	Sources of Funding
2008	1 New York	30%	Tolis: Income, Sales, Gas, and Title Transfer Taxes	0%	None
9154	2 Los Angeles	62%	Sales, Gas, and Income Taxes and Other Sources	17%	Sales and Other Tax and Other Source
5066	3 Chicago	32%	Sales Tax and Other Source	12%	Sales Tax
3019	4 Philadelphia	14%	Other Tax	7%	Other Tax
4034	5 Miami	10%	Gas Tax and Other Source	45%	Other Source
6056	6 Dallas	87%	Sales Tax	65%	Sales Tax
1003	7 Boston	49%	Sales Tax	0%	None
3030	8 Washington DC	2%	Gas Tax	0%	None
5119	9 Detroit	33%	Gas Tax	21%	Gas Tax
6008	10 Houston	56%	Sales Tax	66%	Sales Tax
4022	11 Atlanta	52%	Sales Tax	12%	Sales Tax
9003	12 San Francisco (BART)	48%	Sales and Property Tax	4%	Sales, Gas, and Other Taxes and Tolls
9014	12 Oakland	47%	Sales, Property, and Income Taxes and Other Sources	32%	Tolls and Other Sources
9032	13 Phoenix	11%	Sales Tax	41%	Sales Tax
0004	14 Seattle	61%	Sales and Property Tax	30%	Sales Tax
9054	15 San Diego	19%	Sales Tax	9%	Sales Tax, Property Tax, Tolls, and Other
5027	16 Minneapolis/St Paul	30%	Gas and Property Tax	11%	Property Tax
7006	17 St. Louis	0%	-	11%	Sales Tax and Other Source
3034	18 Baltimore	0%	<u> </u>	0%	None
4041	19 Tampa/St. Petersburg	56%	Property Tax	22%	Property Tax and Other Source
8006	20 Denver	59%	Sales Tax	69%	Sales Tax and Other Source

Source 2001 NTD Data, from APTA

Table 9

Local Taxes Dedicated at Their Source for Transit Capital Funds Applied

State Name	10	Org Type	VOMS	Income Taxes	Sales Taxes	Property Taxes	Gasoline Taxes	Other Taxes	Total
				Agency Detail					
AR For Smith Public Transit (FST)	6086	A	14	0.0	3.4	0.0	0.0	0.0	3.4
AZ City of Mase	9129) (A) (B)	26	0.0	8,331.6	0.0	0.0	0.0	8,331.5
AZ : City of Phoenix Public Transit Department (Valley I	Me(ro) 9032	E E	501	0.0	38,402.2	0.0	0.0	0.0	5 1217 82 38,402.2
AZ City of Tempe Transportation Planning & Transit D	eren en e	C - 1 - 1	62	0.0					法性。
AZ Coconino County Transportation Services		A FUND		以是是唯多型面型	4,529.6	0.0	0.0	0.0	4,529 6
CA Access Services Incorporated (ASI)	0180	A	12	e e	321.8	0,0	D,C	0.0	.321.8
CA Antelope Valley Transit Authority (AVTA)	9157	E COUNTY	465	0.0	1,093.1	0.0	0.0	0.0	1,093.1
CA Central Contra Costa Transit Authority (County Co	9121 noestion):	B SOS NATED	51	0.0	0.0	0.0	306.2	0.0	306.2
CA City of Alamaica Ferry Services	9078	B	149	0.0	202.7	0.0	0.0	0.0	202.7
CA City of Commerce Municipal Busilines (CBL)	∯150 V1	8		0.0	375.0	0.0	0.0	0.0	375.0
OA City of Fairfield Fairfield Transit System (FST)	9043	٨	9	0.0	13.4	0.0	0.0	0.0	13.4
CA City of Lompoc Lompou Transit (CCLT).	9092	B B	21	0.0	3,578 B	0.0	0.0	0.0	3,578.8
	9149	В	10	0.0	0.0	0.0	141.7	0.0	141.7
	9091	8	25	0.0	360.8	0.0	0.0	0.0	380.8
CA Culver City Muslicipal Bus Lines (CilyBus)	9038	A	12 Marie 12	0.0	86.0	0.0	0.0	0.0	86.0
CA Footbill Transit	9146	B	254	0.0	631.2	0.0	0.0	0.0	931.2
CA Golden Empire Transit District (GET)	9004	A A	77	0.0	419.1	0.0	0.0	0.0	419.1
CA Livermore/Amedor Valley Transit Authority (LAVTA)	9144	E S	70	0.0	751,1	0.0	0.0	0.0	751.1
CA Long Beach Public Transportation Company (LBT)		T of the state of	180	0.0	15 4 5 15 15 15 15 15 15 15 15 15 15 15 15 1			41.20 m. Texton Vi	
CA Los Angeles County Metropol/sim Transportation Ab	inorty (LACMTA)			10.70	1,142.6	0.0	0.0	0.0 NG 2 1 - 10 - 10 - 10 - 10 - 10 - 10 - 10	1,142.8
CA Los Angeles County Metropottan Transportation Au		A	2200	0.0	28,553.2	0.0	0.0	0.0	28,553,2
	9168	В	267	0.0	4,563.1	0,0	0.0	0.0	4,563.1

ale Name	ю	Org Type	VOMS	Income Taxes	Sales Taxes	Property Taxes	Gasoline Taxes	Other Taxes	Tota
				Agency Detail					
Monterey-Salinas Transit (MST):	9062	B	109	0.0	156.3	0.0	0.0	0.0	158.
Napa County Transportation Planning Agency (N	CONTRACTOR OF THE PARTY OF THE		Fire Agent			0.0	0.0	0.0	596
North San Diego County Transit Davelopment B	9084 6ard (NCTD)	B COMMONDERS	33	0.0	595.5			With the same	
Norwalk Transit System (NTS)	9030	B	219	00	985.8	0.0	0.0	0.0	985
remak ildist system (413)	P022	B B	22	0.0	296.0	0.0	0.0	0.0	296
Reverside Transit Agency (RTA)	9031	0	153	0.0	2,615.7	0.0	0.0	00	2,615
Sacramento Regional Transit District (Secremen	ilo RT)							5. 生產數別	
San Francisco Bay Area Rapid Transit Ofstrict (E	9019 IARTXO 2007		322 3030 - 362 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 3	0.0	11,557.2	0.0	0.0	0.0 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	11,557
	9003	A	493	0.0	42.0	0.0	0.0	0.0	42.
San Francisco Municipal Raliway (MUNI)	9015	H	833	0.0	39,842.0	0.0	0.0	0.0	39.842
San Joaquin Regional Transit District (SJRTD)		THE TOTAL				WOOD STORY		TO STANDER	G TOTAL
Santa Cara Valley Transportation Authority (VT)	9012	n Constitution	137	0.0	400.0	0.0	0.0	0.0	ACC
	9013	B	812	0.0	135,261.6	0.0	0.0	0.0	135,261
Santa Clarita Yransit (SCT)	9171	В	58	0.0	2,047.0	0.0	0.0	0.0	2,047
Senta Maria Area Transit (SMAT)	9087	Mary Control	17	0.0	35.5	00	0.0	0.0	35
Santa Monica Municipal Bus Lines (Big Blink Bus	CONTRACTOR OF THE PERSON ASSESSMENT ASSESSME					Manual Control			
Sonoma County Transit	9008	В	140	0.0	33,415.2	0.0	0.0	0.0	33,415
Scholar Loundy Clause	9089	B	B1	0.0	£10.0	0,0	0.0	1,345.9	1,965
South Coast Area Transit (SCAT)	9035	D D	51	0.0	338.2	0.0	0.0	0.0	338
SunLine Transit Agency (SunLine)			WITH THE REAL PROPERTY.	CONTRACTOR OF THE PARTY OF THE	表 15元岁2000 E			医	
Victor Valley Transit Authority (VVTA)	9079		61 (4字 *5a(e) *212 *2	0.0	0.0	173.7	0.0	0.0 	173
Sing the Supering Manager and	9148	B	40	0.0	€9.0	0.0	0,0	0.0	69
Mami-Dade Transit (MDT)	4034		672	00	0.0	0.0	147.8	0.0	147
Sarasote County Area Transit (SCAT)					CONTRACTOR SHAPE				
Department of Transportation (Metra)	4046	B	97 19 Val. 15	0.0	17.9	0.0	0.0	10.8	28
	4024	٨	22	0.0	0.0	146.7	0.0	0.0	145
Aznes Transil Agency (CyRide)	7041	A	48	0.0	0.0	25.7	0.0	0.0	25
City of Dubuque (KeyLine)	7011	В	14	0.0	0.0	407,4	0.0	0.0	407

VOMS includes directly operated and purchased transportation vehicles by mode and type of service reported on Service Form (S-10) under the same NTD identification number

Table 9 - Page 2 of 4

Table 9

Local Taxes Dedicated at Their Source for Transit Capital Funds Applied

State Name	OI	Org Type	VOMS	Income Taxes	Sales Taxes	Property Taxes	Gasoline Taxes	Other Taxes	Total
A Davannari Bublic Tesana				Agency Detail					1 (0.00)
A Davenoort Public Transit	7009		20	0.0	0.4	0.0	0.0	E 120	0.4
L Chicago Transit Allthonty (CTA)	5066	Maght.							
Northeast Illinois Regional Commut			3362	0.0	33,087.8	0.0	0.0	0.0	33,087,6
Bloomington Public Transportation (5118 Corporation (BT)	A	987	0.0	60,135.5	0.0	0.0	0.0	60,135.5
711 27 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5110	R	32	0.0	0.0	175.8	0.0	0.0	178.5
Greater Lafayette Public Transporta	aften Corporation (CityBus)). 5051	D	53 SE						
South Bend Public Transportation C				0.0	0,0 = 141.5(10.44) 2	532.4	0.0	0.0	532.4
S City of Lawrence Transit	5052 WSvetim Wawshood Tradel Serie	٨	50	0.0	0.0	1.237.2	0,0	0.0	1.237.2
	7033	В	22	0.0	0.0	11.8	0.0	0.0	11,8
S Topeka Metropolilah Transit Author	tly (Topeka Tracisa - TMTA) - 7014	0	52	0.0				Section 1	
V Jefferson Parish Department of Tran		45/ENRIS			0.0	450.7	0.0	0.0	450.7
Capital Area Transportation Authorit	6088	B	69	0.0	0.0	504.4	0.0	0,0	504.4
	5036	B	150	0.0	0.0	59.9	0.0	0.0	59.9
Dubuh Transil Authority (DTA)	5025	Đ	72	0.0	0.0			AND THE RESERVE	
N Metro Transit			Machen Co.			500.2	0.0	0.0	500.2
O Bi-Stale Development Agency (BSD)	5027 A)	9	841	0.0	0.0	17,618.5	0.0	0.0	17,618.5
	7006	٨	480	0.0	27,560,1	0.0	0.0	0.0	27,560.1
O Kaneas City Area Transportation Au	morely (KCATA) 7005	В	329	0.0	619.3	0.0			
T Billings Metropolitan Transit				Vicinity of the second	33175		0.0	0.0	619.3
C Ashioville Transit System	5004	A CHARLES	31	0.0	0.0	152,3	0.0	0.0	152.3
	4005	а	22	0.0	0.0	0.0	0.0	254.1	254.1
Winston-Salom Transit Authority - Tr.	ans Ald of Forsyth County (WSTA 4012) A	52	g.0	0.0	51.5			
Laketran						51.5	0.0	0.0	51,5
H Southwost Ohlo Regional Transit Aut	5117 thority (SORTA / Metro)	B	99	0.0	657.6	0.0	0.0	0.0	657.6
1000 P 41-10-200-\$-200-200	5012	В	411	13,005.8	0.0	0.0	0.0	0,0	13,005 à
H Stark Area Regional Transit Authority	V(SARTA) 5011		90	0.0					
	-3011	-	33	9.0	275.4	0.0	0.0	0.0	275.4

State Name	ю	Org Type	vows	Income Taxes	Sales Taxes	Property Taxes	Gasolino Taxes	Other Taxes	Total
				Agency Detail					
OH Western Reserve Transit Authority (WRTA)	5024				一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	2017年中央10年10日	经产生的		
OR South Metro Area Regid Trensit (SMART)	3445 Marie Marie M	A. ETHERESES	41 5000000000000	0.0	0.0	88.1	0.0	0.0	88.1
() 1 () () () () () () () () (0046	A	12	0.0	0.0	0.0	0.0	138.9	138.9
TX Corpus Christi Regional Transportation Authority	(The B):	Q 100 mg		型 电视器 医毒		PET CHEST STREET			
	6051	В	113	0.0	1,645.5	0.0	0.0	0.0	1,545.5
TX Laredo Municipal Transit System (El Metre)	6009	A	45	0.0					
TX VIA Metropolitan Transif (VIA)			riendo terrantes		136.0	0.0	0.0	0.0	138.0
n in ne. 2 1154	6011	B	582	0.0	1,238.4	0.0	0.0	0.0	1,238.4
UT City of Logan, dba: The Logan Transit District (LTI							HOLDER STATE		
The Total State District Property and the Control of the Control o	8021	В	16	0.0	549.4	0.0	0.0	0.0	549.4
WA Central Puget Sound Regional Transit Authority (\$	0040								15 William
WA Spokene Trensil Authority (STA)		B.	21	0.0	170,001.5	0.0	0.0	0.0	170,001.5
	0002	B	229	0.0	0.0	0.0	0.0	1,252.8	1,252.8
WA Yakima Transit			2027	A STREET, TANK		NAME OF THE OWNER OF THE OWNER.			TOTAL STATE
	9006	B	36	0,0	2,233.7	0.0	0.0	0.0	2,233.7
WI Milwaukela County Transit System (MCTS)	513553				1. Fally T. S. Tay				
WV Kanawha Valley Regional Transportation Authority	5008	В	673	0,0	0.0.	3,440.2	0.0	0.0	3,440.2
The second second second second second second	3001	A	70	0,0	0.0	424.0	0.0	0.0	424.0
AV The Tri-State Transit Authority (TTA)	ROTE SEE	STATUTE OF	N 10 - 31				Lance Series in the series of	AND THE MEANINE	
1,000	3002	A	50	0.0	0.0	674.0	0.0	0.0	874,0
			Nation	nal and Urbanized Area (in	Millions)			10000	
ore of Urbanized Area	5 3 600	A STATE	100000			自己生存者等的 的特殊的	A 100 00 1 1 1 1	Part of the second	在为一次
Under 200,000 population 200,000 - 1 million population	DATE OF THE PARTY	HENCHESTS.	521 1585	0.0	10.0	3.6	0.1	0.0	13.7
Oye/ 1 million population	1 4 1 1 1 A	EGINT IN	15,582	13.0	605.3	21.6	0.1	2.0	9.7
National Totals		53.50 (10.50	17.98A	150			0.1	0.1 September 2000 Transport	640.2
		SVINITES	SHEET HEALTH AND	thicle Group Totals (in Mill	620.1	26.9	0.6	3.0	663,6
Vehicles Operated in Maximum Service				ince Group rotats (in time	ionsj				
1000 & OVer	TEST STEEL		5,568	5,0	61.6	The second second	0.6	P. 12 5 10 0 0 10 10 10 10 10 10 10 10 10 10 10	51.6
500-999		A-SUNDANCE.	5,901	0.0	274.9	21.1	0.1	0,0	296.1
250-499	SAN ASSE		2,026	13.0	46.4	0.0	7 TO 1 TO 1	0,0	59 47
100-249			1,588	0,0	40.6	0.1	0.0	1.3	41.9
50-99		4000	1,208	0.0	9.7	1 39	0.3	14	552
25-49	GI rZmrybahomi		420	0.0	11.8	1,3	0.0	0.0	13.1
10-24			245	. 00	174.8	0.6	0.1	7 0.4	φ (3) 175.9
Under 10			12	0.0	0.4	0.0	0:0	0.0	0.4

VOMS includes directly operated and purchased transportation vehicles by mode and type of service reported on Service Form (S-10) under the same NTD identification number

Table 10

Directly Generated Taxes Dedicated at Their Source for Transit Capital Funds Applied

		N. B.		1500						7
State	Name	ID	Org Type	VOMS	Income Taxes	Sales Taxes	Property Taxes	Gasoline Taxes	Other Taxes	Total
				-	Agency Detail			Vietna C	10,00	
CA	City of Gardena Transportation Department (GMBL)		1000000		Mary Carlot	三天 三世 传统相信				#### SA
74	Merced County Transil (The Bus)	9042	8	48	0.0	106,6	0.0	0.0	0.0	106.6
UA .	wested County Transii (Trig Bus)	9173	E SEE	30					中国大学	
A	Roseville Transil	2010	ाक्षा स्था स्थान	S 10 (State Street)	0.0	442.2	0.0	0.0	0.0	442.2
	1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	9165	В	18	0,0	32.5	0.0	0.0	0.0	32 9
A	San Francisco Bay Area Raylid Transit District (BART	1)474432	N. T. S.	2000年初日10	THE PROPERTY OF THE PARTY OF TH				V.O	102 1000
		9003	A	493	0.0	40,124.9	0.0	0.0	0.0	40,124.9
A	Santa Cruz Metropolitan Transil District (SCMTD).			多点传送					1000	E PE
	Hillsborough Area Regional Transit Authority (HART)	9006	В	151	0.0	997.9	0.0	0.0	0.0	997.9
	Consolitation of the Contract of the Contract of Contr	4D41		207		可是你可能是				
i de	Pinollas Suncount Transit Authority (PSTA)	STATISTICS.	ALC: HELD	Contractor and	0.0	0.0	332.8	0.0 Widemmannenthiaeth seine te	0.0	332.8
		4027	B	229	0.0	0.0	452.7	0.0	0.0	452.7
A	Department of Transportation (Metra) 40	RESERVED.		BUT TO SERVE	THE RESIDENCE OF THE PARTY OF T	The state of the s	The shape the state of the		CONTRACTOR OF THE PARTY OF THE	4327
era andana		4024	A	22	0.0	0.0	146.7	0.0	D Q	146.7
A	Metropolities Allanta Repid Transit Authority (MARTA	And the second second			Control of the second				正 》如果我是有一种	William I
	Madison County Transit District (MCT)	4022	A	853	0,0	107,417.0	0.0	0.0	0.0	107,417.0
	Mindadit Charley (famili Charlet [MC1)	5146	CVERGE	127						Section 2
	Rock Island County Metropolitin Mass Transit District	40000		721 200 July 18700	0.0	306.2	0.0	0.0	0.0	306.2
-	TWY II THE	5057	A	70	0.0	0.0	130.0	0.0		THE PERSON NAMED IN
77.	Springfield Mass Transit District		MEN AND			Visual territory		0.0 5547 (2) 451 (2) 10 (1)	0,0	130 0
		5059	A	60	0.0	0.0	96.6	0.0	0.0	96.6
	Fort Wayne Public Transportation Corporation (Citania						TEN DE MONTO DE LA COMPONIO DE LA C	经国际管制的	THE STATE OF THE STATE OF	TOTAL STATE
	The Add Add to The Table of the Control of the Cont	5044	A	32	0.0	0.0	847.6	0.0	36.6	664.2
	Ann Arbor Transportation Authority (AATA)	5040								
	Bay Metropolitan Transit Authority (Bay Metro)	3040	H Mariana and and and and and and and and and	\$5 7757355 750508	0.0	0.0	1,330.8	0.0	0.0	1,330.6
		5029	A	50	0.0	0.0				
N TO	Metropolitan Council 1		200			S ON STANDARD	7.6	0.0	0.0	7.6
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	5154	E	345	0.0	0.0	15,167.5	0.0	0.0	15,167.5
N desir	St. Cloud Metropolitan Transit Commission (St. Cloud	MTC)				RATION THE W	IN THE RESERVE A			Wall Mark
		5028	A	35	0.0	0.0	710.3	0.0	0.0	710.3
	Great Falls Transit District (GFTD)					真。 有标识		erny a v	西部署開始	
H CENTRAL	Campus Bus Service (CBS)	5012	В	28	0.0	0.0	142.1	0.0	0.0	142.1
Harry	Control ons onlying (CDS)	5097	E B	10					7.18	
TO THE REAL PROPERTY.	Greater Dayton Regional Transit Authority (GDRTA)	5.50)	2301232	12	0.0	0.0	0.0	0.0	113.1	113.1
50003				34 15 5						

		Org		Income	Sales	Property	Gasoline	Other	
State Name	ID	Турв	VOMS	Taxes	Taxes	Taxes	Taxes	Taxes	Total
				Agency Detail					
OH Metro Regional Transit Authority (Metro)	5017	A	239	0.0	2,370.2	0.0	0.0	0.0	2,370.2
On medo regional reason Administry (medo)	5010	A	257	0.0	558.8	0.0	0.0	0.0	558 B
OH Toledo Area Regional Transit Authority (TARTA)									是 。我
Programme and the second secon	5022	8	188	0.0	0.0	933.7	0.0	0.0	933.7
OR Laine Transit District (LTD)	0007	8	120	0.0	0.0	0.0	0.0	1,196.8	1,196.8
OR Rogue Valley Transit District (RVTD)		200	PROTER		9,0	可能用的可能的		THE PERSON NAMED IN PORT OF THE PERSON NAMED IN PARTY OF THE PERSON NAMED	
English Physics Plansking	0034	В	45	0.0	0.0	39.6	0.0	0.0	39,6
OR	2 N 3 N	12.91							
TX: Capital Metropolitan Transportation Atthorny (C)	0025	B	(2 (1) (1) (1) (2)	0.0	0.0	220.7	O.O	0.0	220.7
	6048	В	660	0.0	19,562.0	0.0	0.0	0.0	19,562.0
TX Fort Worth Transportation Authority (The T)		15							in the second
	6007	В	254	0.0	27,780.2	0.0	0.0	0.0	27,780.2
TX Mesa Trensit Department - City of El Page (Sur)	Metro) 6006	A	185	0.0		0.0		0.0	2,558.4
TX Metropolitan Transit Authority of Harris County, T		CONTRACT.	100	U.U	2,558,4		0.0	ON THE STATE OF TH	5,000.e
Control of the Contro	eoca	п	1005	0.0	149,485,9	0.0	0.0	0.0	149,485,9
WA Clark County Public Transportation Benefit Area	71						PROPERTY AND ADDRESS OF		
War William Control for Free State Control	0024	A	135	0.0	555.B	0.0	0.0	0.0	555,6
WA Intercity Transit (I,T.)	0019	A	120	0.0	170.6	0.0	0.0	0.0	170.6
WA King County Department of Transportations Metr				THE RESIDENCE			ELANGER ON COLUMN		5110
With the second	0001	В	2645	0.0	75,050.0	0,0	0.0	0.0	75,050,0
WA Kitanp Tranel1	Fig. 1	LEVE 1					Service Control of the Service		15 (4)
WA Whatcom Transportation Authority (WTA)	0020	В	722	0.0	3,152.2	0.0	0.0	0.0	3,152,2
MA THE STATE OF TH	.0021	В	67	0.0	1,326.1	0.0	0.0	0.0	1,326.1
WV Ohio Valley Resonal Transportation Authority (O	VRTATECRTA)			THE STATE OF THE PARTY OF THE P	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	多用的制度的		ASSESSMENT NEWS	
	3035	٨	16	0.0	0.0	32.4	0.0	0.0	32.4
ize of Urbanized Area			N	ational and Urbanized Area (in	Millions)	The second second			
Under 200,000 population		S. P. S.	£24	0.0	6.1	1,0	0.0	0.0	7.1
-200,000 - 1 million population			1,902	0.0	25.0 0 0	17 17 G 34 C 8 (E)	0.0	20 (F 19/0) 0 (F	7.1
Over 1 million population	The second second	AT SHEET ST	6,909	0.0	400.9	16.0	0.0	0.0	416.6
National Totals			9,755	0.0	432.0	20,4	0.0		453.7
				Vehicle Group Totals (in Mill	lons)				
Vehicles Operated in Maximum Service						and the second second second second			
1000 8 Over			4.250	0.0	127.0	300	0.0	0.0	224.5
500-993 250-499			1,513	0.0	127.0 68.5	0.0 15.2	0.0	0.0	127.0
						AND STREET, ST			00.0

VOMS includes directly operated and purchased transportation vehicles by mode and type of service reported on Service Form (S-10) under the same NTD identification number

Table 10

Directly Generated Taxes Dedicated at Their Source for Transit Capital Funds Applied

Stato	Name	îD.	Org Type	VOMS	Income Taxes	Sales Taxes	Property Taxes	Gasoline Taxes	Other Taxes	Total
					Agency Detail				Tonic Co.	
	100-249	en alemaniana		1,933	0.0	10.1	1.7	0.0	1.2	13.0
10 M	50-39			424	0.01	13	18	0.0	0.0	3.1
	25-49		-3-3-5	218	0.0	0.5	1.5	0.0	0.0	2.1
Treat I	10-24			ta	0.0	0.0	0.2	0.0	0.1	0.3
	Under 10				0.0	0.0	0.0	0.0	0.0	0.0

Table 8
State Taxes Dedicated at Their Source for Transit Capital Funds Applied

State Name	ID	Org Type	VOMS	Income Taxes	Sales Taxes	Property Taxes	Gasoline Taxes	Other Taxes	Total
				Agency Detail					
AR . Fort Smith Public Transit (FST)	E.P. Prints				学说:"如他"				
CA Citico Area Transit System City of Chico (CATS	(086	A	14	0,0	0.0	0.0	0.0	2.0	2.0
	B127		14	0.0	29.5	0.0	0.0	0.0	29.5
CA City of Compositionnois Transit (COLT)					10				UV TOTAL
CA City of Los Angeles Department of Transporters	9149	В	10	0.0	0.0	0.0	73.3	0.0	73.3
on on the Angeles Department of Transporting	0147	0	377	0.0	13,923.2	0.0		此为 有相關法	
CA City of Son Luis Obispo (SLO Trensit)			W. Carlotte	Charles Comment	THE RESERVE THE PARTY OF THE PA		0.0	9.0	13,923.2
	9156	8	11	0.0	251.1	0.0	0.0	0,0	251.1
CA City of Union City Transil Division (UCT)									
CA City of Valle o Transportation Program (Valleio	0161 Transit Budiriyi	B.	70 03/4 (118-118-118-118-118-118-118-118-118-118	0.0	483.0	0.0	0.0	0,0	483.9
	9028	В	56	0.0	0.0	0,0	0.0	54.3	54.3
CA Culver City Municipal Bus Lines (CityBus)		10 PM		APPROPRIEST OF THE PARTY OF THE					
A CHARLES AND THE PART OF THE	9039	A	22	0,0	1,001,9	0.0	0.0	0.0	1,001.9
CA Eastern Contra Costa Transil Authority (Tri Delta	the state of the s				(一) 州学规则等				W. 17 (19 (19 (19 (19 (19 (19 (19 (19 (19 (19
CA Foothill Transit	9162	B	58	0.0	840.1	0.0	0,0	0.0	040.3
The state of the s	9146	B	259	0.0	2,849,1	0.0	0.0	0.0	2,849.3
CA Coguna Blaich Municipal Transit (CLB)			STATE OF STA			A STATE OF STATE OF STATE OF		TAPOUR SAFESSOR	2,040.3
	9119	٨	12	0.0	0.0	0.0	0.0	214.2	214.2
CA Long Beach Public Transportation Company (LE	9023	B	180		W. Yang	18 77 W 1 W 1 W 1 F W		THE PARTY OF THE P	
GA Modesto Area Express (MAX)	ALISTA STATE		180	0,0	1,149.8	0.0	0.0	0,0	1,149.6
	9007	B	58	0.0	234.9	0,0	0.0	0.0	234.9
CA Monterey Salines Transit (MST)			and the second		2000年100日				
CA Omnitrans (OMN)	9062	0.	109	0.0	0.0	0.0	613.3	0.0	613,3
GA CHILIMITHIA (CINIVI)	9029	В	229	0.0	2,054.5			是是 医	
CA Riverside Transif Agancy (RTA)	SHARLISH	B4 00 0 742 0		0,0	2,434.3	0.0	180.6	0.0	2,235.1
months of the state of the stat	9031	8	153	0.0	0.0	0.0	2,5/9.0	0.0	2,579.0
CA Sacramento Regional Transit District (Sacramen			图图 不透图 电		The Thirty Street				
CA San Francisco Bay Area Replid Transit District IB	9019	A	322	0.0	0.0	0,0	3,500.3	0.0	3,500.3
CA San Francisco Bay Area Rapid Transit District (8	9003	A	453	0.0	935.8				
CA San Joequin Regional Transit District (SJRTD)		96.5		The state of the s	400.0	0.0	3,094.2	0.0	4,030.0
2 (1) 2 (1) 1 (1) 2 (9012	B	137	0.0	0.0	0.0	1,395.1	0.0	1,395.1
CA. Santa Barbara Metropolitan Transif District (SBM		The second				是一块 加强 施			
	9020	A	74	0.0	1,358.8	0.0	0.0	0.0	1,358.8

State Name	ID.	Org Type	VOMS	Income Taxes	Sales Taxes	Property Taxes	Gasoline Taxes	Other Taxes	Total
A Logo V Sente Clarita Trensif (SCT)				Agency Detail					
A Sent Colle (false (501)	9171	8	58	0.0	343.5	0.0	0,0	0.0	343.5
A Santa Cruz Metropolitan Transi District (SCMTD)	9005	8	151	0.0	0,0	0.0	1,067.3	0.0	1,067.3
A SunLine Transit Agency (SunLine)	CONTRACTOR OF STREET								
A Victor Velley Fransit Authority (VVTA)	9079	A CONTRACTOR	61	0.0	0.0	0.0	259.6	0.0	259.6
	9148	В	40	0.0	0.0	0.0	22.5	0.0	22.5
L Saresota County Area Transit (SCAT)	4046	B	97	0.0	0.0	0.0	64.2	0.0	64.2
Des Moines Metropolitan Transit Atthorty (Des Moine	7010	A	175	15 to 50m	0.0	0.0	0.0	984.7	964.7
Northern Indiana Commular Transportation District (N							the transfer to the		
A Terrebonne Parish Consolidated Government (Good t	5104 5-46 Tea-(III)	٨	68	0.0	0.0	0.0	0,0	136.1	136.1
A Teleponinal and Consolidated Sovering and Consolidated	6080	A	1	0.0	0.0	0.0	1.7	0.0	1.7
Ann Arbor Transportation Authority (AATA)	5040	B	95	0.0	0.0	0.0	0.0	407.3	407,3
Bay Metropolitan Transit Authority (Bay Metro)	EY S	16 E. S.	NAL SE						30000
Capital Area Transportation Authority (CATA)	5029	A 550 FEET ST	50	0.0	0.0	0.0	699,7	0.0	099.7
1//1	5036	E	159	0.0	0.0	0.0	875.3	0.0	875.3
II City of Detroit Department of Transported on (DDO 1)	5119	à à	586	0.0	0.0	0.0	7,753.1	0.0	7,753.1
City of Jackson Transponation Authority (JTA)	5034	A	51	0.0	0.0	0.0	159.8	0.0	159.8
Clinton Area Transit System	2000				TITAL W				/0.5 (a)
M Interurbury Trenett Partnership (The Rapid)	5168	A	13	0.0	0,0	0.0	0.0	28.9	28.9
	5033	8	156	0.0	0.0	0.0	804.5	0.0	804.5
M Kalamaxod Melro Transit System (Metro Transit)	5035	A	46	0.0	0.0	0.0	170.4	0.0	170.6
M Metropolitan Council	600		66.						
Cumberland County Cifice on Aging (CCOCA)	5154	# 21-32-33-33-33	345	0.0	9,0	0.0	0.0	0.0	0,0
U.F. New Jersey Transit Corporation (K.Transit)	2155	A	23	0.0	0.0	0.0	0.0	3.1	3.1
New Joseph Tieren Carpinsautt (14) Talled C	2080	6	3095	0.0	0.0	0.0	0.0	1,789.4	1,789.4
W	9001	n n	91	0.0	1,472.3	0.0	0.0	0.0	1,472.3
Y New York City Department of Transportation (NYCDO	T)								
The Greater Cleveland Regional Transit Authority (GC	2082 RJAL	B	7	18.000.0	0.0 (av of # 5) = 15	20,000.0	0.0	45,000.0	0,000,08
A. C. Charles and C.	5015	ā	(69G	0.0	12,577.0	0.0	0.0	0.0	12,577.0

/CMS includes directly operated and purchased transportation vehicles by mode and type of service reported on Service Form (S-10) under the same NTD identification number

Table 8
State Taxes Dedicated at Their Source for Transit Capital Funds Applied

State	Namo	Ю	Org Type	Votas	Income Taxes	Sales Taxes	Property Taxes	Gasoline Taxes	Other Taxes	Total
S.			- 31.5	100	Agency Detail	15005		, and	100.5	
OR	Lane Transit District (LTD)	0007	TIVE SA	120	0.0	0.0	0.0	0.0	73.5	73.5
PA	Altoona Metro Transit (AMTran)	3011		41	0.0	0.0	T 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.0	8.3	8.3
PA ·	Berks Area Reading Transportation Authority (BART	A)				2000年中的1980年	经选定的 数据			
PA 1	Cambria County Transit Authority (CamTran)	3024	B SEQUE	ā1	0.0	2,182.6	0.0	0.0	0.0	2,182.6
PA	Centre Area Transportation Authority (CATA)	3012	A STATE OF THE	20	0.0	123.5		0.0 State of the state of	0.0	123.5
PA ///	Erie Metropolitan Transil Authority (EMTA)	3054	B	59	0.0	467.2	0.0	0.0	0.0	467.2
PA	'G G and C Bus Company, Inc.	3013	A	83	0.0	65.4	0.0	682.6	0.0	747.9
		2050	D	29	0.0	31.5	0.0	0.0	0.0	31.5
PA	Lehigh and Northempton Transportation Authority ID	3010	В	156	0.0	340.0	0.0	0.0	0.0	340.0
PA	Southmastern Pennsylvania Transportation Authority	(SEPTA).9	В	2177	0,0	0.0	0.0	0.0	50,885,4	50,885.4
PA	York County Transportation Authority (Rabbit Transit)	3027	30 30 FE	EN ASSE	0.0	635.4	0.0	0.0	0.0	635.4
SC*	Pee Cee Regional Transportation Authority (PORTA)		SECTION A	150	0.0	0.0		A VENEZUE O	Janes In Tolkins	
IX "	Dallas Area Rapid Trensit (DART)		1196		3. 在3. 在4. 20		0.0 (1977)	16.1	0.0 1744-1744-16	16.1
WA	Place County Transportation Banefit Area Authority	Contract to the second	H THE STATE OF	521	0.0	37,463.2	0.0	0.0	0.0	37,463.2
WA THE SE	Snohomish County Transportation Benefit Area Corp	0003 pration (Commu	a intly Transit)	492	0.0	4,641,4	0.0	0.0	0.0	4,641.4
NA THE	Washington State Farries (WSF)	0029	B	473	0.0	39.0	0.0	0.0	0.0	39 0
oranie Made	and the Control of the State of	0035	C	22	0.0	0.0	0.0	50,053.0	0.0	50,053.0
ize of Urba	anizad Area	· 高情扩展		Matient	al and Urbanized Area (in	Allions)		Transfer (1971)	en en en en en en	
Street Street Street	Under 200,000 population 200,000 - 1 milisan population		or we will be	1,107	0.0	3.3	0.0	3.5	0.1	5.6
	Over 1 million population		and Lab	10,594	18.0	77.2	0.0 20.0	5.4 67.2	98.0	260.3
	National Totals			15 (97) Vet	15.6 Icle Group Totals (in Milli	e515	20.0	741	99.6	2912
/nhicles O	perated in Maximum Service			VC	nee Group Totals (in mini	ALS.	-14			- L
177 W. W. W.	1000 & Over 500,999			5,272 1,809	0.0	50.0	0.0	7.8	52.7 0.0	52.7 57.8

State Name	O ID Typ	pe VOMS	Income Taxes	Sales Taxes	Property Taxes	Gasoline Taxes	Other Taxes	Total
			Agency Detail					-
250-499		2,761	0.0	22.A	0.0	6,6	0,0	Jen 9 Hz 29.0
100-249		1,874	0.0	3.5	0.0.	7.5	1.1	12.1
50-99		and the state of the state of	0.0	7.8	0.0	1/9	0.6	10.1
25-49		217	0.0	1.2	0.0	0.2	0.0	1.4
10-24		1139	0.0	O.E.	6.0	50 1	0.2	61.1
Under 10		14	18.0	0.0	20.0	0.0	45.0	83.0

/OMS includes directly operated and purchased transportation vehicles by mode and type of service reported on Service Form (S-10) under the same NTD identification number

E.L. TENNYSON, P.E. RECEIVED WAY 1 0 ZOJA 2233 ABBOTSFORD DRIVE, RFD 55 - VIENNA, VA 22181-3220

HEGISTERED PROFESSIONAL ENGINEER

(703) 281-7533

The Honorable William D. Euille, Chairman of the Commission Northern Virginia Transportation Commission 4350 North Fairfax Drive, suite 720 Arlington, V A. 22203

May seventh 2004

Dear Chairman Euille:

At your May sixth Commission meeting, Commissioners expressed considerable connern about adequate funding for our vital transit system. (Metro Matters, item 2)

This is a severe problem, as most of you agree.

To help Commissioner (Senator) Whipple and other Delegates prove the need for additional funding. I have reviewed the Federal Transit Administration's records for 2001 on local and state Operating Funding. Capital funding comes in lumps and voids, fits and starts, so does not make much sense one year at a time. A six year review (or more) would be necessary to evaluate capital funding support. The vast difference between rail and bus capital also confuses the issue until compared with operating costs.

Based on the dozen largest transit systems in USA, WMATA is one third lower than its peers in receipt of state aid, although the data is skewed by California which provides state gasoline tax money to transit but calls it local, similar to Virginia's two percent gasoline sales tax in local areas. WMATA also gets 23 percent less local support than the peer group. This is the reason Metro Matters. It can not continue to properly maintain its property without more state and local support. Riders already contribute a higher percentage than anywhere else except the New York City subway. We do not want New York's \$ 2 fare and 100-story buildings. Such a high fare would kill off too many transit riders, but there is no where else for most of them to go. More costly congestion, pollution and urban decay would be the result of excessive fares as in Detroit.

The state and local funding sources do not add up to the total aid supplied because special arrangements apply in some systems that are not explained.

BARTD is very similar to WMATA with two major exceptions. BARTD rides are twice as long as MetroRail rides and BARTD operates almost no bus service bringing their unit costs way down.

Hopefully this data will prove to our states that WMATA is underfunded.

Respectfully suggested,

PUBLIC THARSPORTATION

ROUTES + SCHEDULES.

талини всовомия

E.L. TENNYSON, P.E. 2233 ABBOTSFORD DINVE, RFD 55 VIENNA, VA 22181-3220

2001 - FUNDING SUPPORT FOR URBAN TRANSIT

OPESSIONAL ENGIN	REN	in thousands exce			Support 5
SYSTEM	STATE	LOCAL	TOTAL PA	ASSENGER-MILES	/ psgr-mi cents
N.Jer.T.	\$ 482,372.2	\$ 13,915.1	\$ 561,216.8	2,348,838.8	23.9 cts
MassBTA	486,350.3	150,774.3	676,195.9	1,818,140.3	37.2 "
Chic.T.A.	185,389.0	285,728.4	508,257.1	1,770,773.9	28.7
LosA C MT.	A c	474,212.0	501,647.4	1,659.670.7	30.2
SEPTA (Ph	1) 350,715.9	65,093.0	447.527.7	1,332,924.4	33.6
BARTD (Ba	ry) 156.2	160,898.4	161,054.6	1,263,667.8	12.7
MARTA (A	1) 0	207,536.5	251,588.0	849,507.9	29.6
Houston M	etro o	157,096.6	186,626.9	621,650.3	30.0
Md.MTA	211,486.9	0	215,332.6	611,615.1	35.2
Seattle Met	ro 449.5	221,941.8	267,714.3	547,685.9	48.9
NY City bus and ferrie	ses 84,679.2	139,185.3	226,313.2	496,295.0	45.6
SanFricso	65,156.6	236,440.3	310,512.3	452,527.0	68.6
TOTALS \$	1,866,755.9	\$ 2,112,826.7	\$ 4,313,986.	7 13,773,298.1	31.3 c
Percent	43.3 %	49.0 %	100 %		
WMATA	S 141,293.5	\$ 187,568.0	\$ 496,956.1	1,825,314.2	27.2 с
Percent	28.4 %	37.7 %	100 %		

The New York subway system has been excluded as it is equal to 40 percent of the total and distorts the averages in its direction. Its subisdy was 19.9 cents per passenger-mile, 57 percent state and 37 percent local.

Local and state subsidies do not add up to the totals as other unreported sources may be added. Houston and Seattle had no sigificant rail service

SOURCE: FTA NTDB

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Richard K. Taube, Jana Lynott and Kala Quintana

DATE: May 27, 2004

SUBJECT: Regional Transportation Items

A. <u>Status of Northern Virginia Transportation Plan Update.</u>

NVTC is managing the procurement of consulting services for this plan on behalf of the Northern Virginia Transportation Authority. Responses to the request for proposals were due May 27th. At its July 1 meeting, the commission will be asked to recommend to NVTA the award of a contract.

B. <u>Highlights of the Virginia Transit Association's Spring Conference.</u>

VTA is holding its annual conference in Fredericksburg on June 2 and 3, 2004. Staff will provide a summary of highlights, which should include a series of presentations on transit oriented development. Also, Chris Zimmerman has been nominated to be VTA President and DASH has been nominated for an award. A copy of the work program for VTA for the coming year is attached.

C. NVTC Op-Ed Article Re Dulles Corridor Metrorail Extension.

The NVTC article published in the Journal Newspapers is attached.

D. Public Transit Favorable Ratings Increase.

The American Public Transportation Association (APTA) has released the results of polls by Wirthlin Worldwide of over 500 "influentials" in the U.S. and 150 living in the Washington D.C. area. The purpose is to measure the effectiveness of APTA's (PT)² campaign, which has attempted to improve attitudes toward public transit. As shown in the attachment, favorable opinions have risen in the past two years. In the D.C. area, favorable opinions of transit far exceed those elsewhere.

When asked if they favor "the allocation of tax dollars toward the expansion and improvement of public transportation services" in their communities, nationwide 50 percent "strongly support" and 27 percent "somewhat support" as of April 2004. This is up from 43 percent and 28 percent, respectively, as of January, 2002. In the D.C. area those favorable ratings are 62 percent and 25 percent in 2004, down somewhat from 63 percent and 27 percent in 2002, but still well above the national average.

E. <u>Transit Investment Worth Its Weight in Real Estate.</u>

A Masters degree candidate at Columbia University, Juliette Michaelson, has examined the relationship between housing values and proximity to commuter rail service in New Jersey. In 1996, New Jersey Transit spent \$69 million to create a new direct commuter rail connection to Manhattan from northern New Jersey. From 1993 to 2003, residential properties within a half mile of the stations soared in value by 113 percent. Properties between a half or two miles increased in value by 82 percent and houses beyond two miles increased by 65 percent. By 2003 an average house near a station cost \$90,000 more than an otherwise comparable house not near a station.

A description of the results and comments on a failure to plan effectively for the growth spurred by commuter rail service are attached.

F. Brookings Institution Discussion on Still Stuck in Traffic.

Anthony Downs will autograph his new book at a lunchtime discussion on June 14th. Among the speakers will be Chris Zimmerman. Mr. Downs's proposals to relieve congestion (and live with it) were summarized for NVTC commissioners at the May 6, 2004 meeting.

G. ITS in Transit Wins Thumbs Up.

Attached for your information is a description of NVTC's study evaluating transit ITS performance. The article appeared in an ITS industry publication.



Virginia Transit Association Proposed 2004-2005 Work Plan

May 9, 2004

ADVOCACY AND COALITION BUILDING

Advocacy with the Administration

- L. Communicate VTA priorities and positions to the Governor and his staff, the Secretary of Transportation, the Department of Rail and Public Transportation and the Commonwealth Transportation Board
- VTA will seek to make one presentation to CTB to highlight issues of general concern to the transit community.
- Advocate administration actions in public transportation and rail that will create a more balanced transportation system and improve funding and ridership.
- 1V Advocate for transit priorities in the Governor's Reauthorization workgroup.
 - V. Work to implement the transit related recommendations made by the Governor's
 - Urban Policy Advisory Task Force in state policy, laws, or practice:
 - Urge the CTB to develop a plan to reduce local share and funding disparity between transit and highway choices to be implemented when new transportation funding is available.
 - Urge administration to encourage transit access and connections when state incentive funds are used in recruiting or relocating business.
 - Encourage pilots that encourage new transit access to regional employment sites increasing job access, especially for residents of lower income areas.
 - Encourage a state process that places a priority on expending transportation and development funds in areas where infrastructure already exists, and maximizing opportunities for transit.
 - In non-attainment regions allow localities to have voluntary programs to shifting development to higher density areas, and to downzone property under certain conditions.
- VI. Promote a state multimodal plan, and staff with expertise in transit.
 - VII. Organize a meeting with each of the prospective candidates for Governor to highlight transit issues.

Advocacy with the General Assembly

PRE-SESSION

- Host early fall legislative strategy session for VTA members (include CTAV members and other transit friends).
- II. Fall regional transit tour for Transportation committee and Transportation subcommittee members, members of administration. Tours will be developed with assistance from and in coordination with local systems
- III. Continue to send Transit education brochures, monographs etc. to General Assembly members to increase understanding of public transportation benefits and needs.
- IV. Distribute VTA legislative priorities to General Assembly members.
 - V. Cultivate two additional transit advocates in the General Assembly.
- VL Follow-up to Transit Liability interim study
- VII. VTA President and officers will highlight transit needs at budget hearings and other key opportunities to influence legislators

SESSION

- VIII. Advocate VTA legislative positions during the 2003 General Assembly.
 - Increased transit funding
 - Support legislation that reduces the liability of Virginia transit providers
 - Support Employer/Employee Transit Vouchers Initiatives
 - Advocate for legislation pedestrian and land use legislation compatible which is important to safe and efficient operation of public transportation
 - IX. Host 3rd Annual Transit Lobby Day
 - X. Host friends of transit reception or dinner
 - XI. Provide transit related bill and budget updates and analysis to VTA members

POST SESSION

XII. Recognize Legislative Accomplishment through letters and awards at Annual meeting

Coalition Building

- XIII. Build alliances with other organizations to support for transit including;
 VML, the business community through the Commonwealth Transportation Alliance,
 Virginia First Cities Coalition. Public Works Director's Organization, Environmental organizations, rail groups. AARP, Apartment and Building Owners Association and major employers, retail merchants and hospitals.
- XIV. Meet with road builders to discuss legislative strategy for increased transportation funding.
- XV. Continue to provide research & analysis to support additional funding for transit
 - Secure and Compile transit Service ratings from local systems to document needs
 This would complement the information collected for VDOT's maintenance asser
 management program.
 - Transit related charts, graphs, presentations as needed.

Training

[Activities in this category funded by DRPT grant]

- Host education Session on transit in Virginia and compatible land use for local elected official, transit board members.
- Provide one NTI training session targeted to transit professionals.

PUBLIC INFORMATION

[Activities in this category subject availability of DRPT grant funds]

- Provide information on transit and rail contributions to the economy of the state and the impact of transit service on the Virginians.
- A. Disseminate and add to Faces and Places materials gathered in FY04:
 - 2nd mailing of Faces & Places brochure
 - · rotate Faces & Places quotes and photos on VTA website
 - Compile and add to Faces & Places binder/CD
 - I-2 newsletters with vignettes of businesses that rely on transit service for employees or customers. Information to be used on website- compiled in binder/CD
- B. Distribute APTA PT2 Radio and Television ads to transit systems for use in local media
- II. Maintain VTA Website; vatransit.com and vatransit.org
 - VTA will continue to upgrade information resource for the this public and members.
- Build awareness of vatransit.com through rolodex mailers, e-mail updates, etc to transit, rail, rideshare, transportation stakeholders and officials, media, state and local officials and administrators, other organizations

III. Complete Production and distribution of two DRPT newsletters (if the Department chooses to move forward with this project.)

2(4 page two color) pieces to be written for the Department, subject to their approval sent to a mailing list of up to 2000 (list and addresses provided by the Department including media outlets, state and local policy-makers and transit rail and rideshare stakeholders). The intent is to increase basic information and understanding of the Department of Rail and Public Transportation and its enabling role in providing public transportation, rail and rideshare service in Virginia. Newsletter production involves research, phone surveys, interviews and follow-up, copywriting, graphic design and layout, printing, mail distribution, postage, and posting on appropriate websites.

- IV. Complete distribution of APTA monographs to state, local, congressional officials, transportation, planning professionals, media outlets, transit, rail and rideshare stakeholders.
 - · Trolleys and streetears
 - · 10 Ways to unleash the power of Public Transportation in Your Community
 - · Essential support for a strong economy
- V VTA Awards recognize transit best practices, accomplishment and contributions: Given at the VTA annual meeting, recognize transit improvements, effectiveness, best practices/ innovations, business partnerships, successful transit marketing eampaigns, contributions by public officials. Information about award recipients is provided through public information outlets: media releases, on the VTA website, articles in local government, business magazines.
- VI. Update and reprint Transit Directory (grant funded)
- VII. Continue to distribute VTA produced materials and publications.

VTA ADMINISTRATIVE ACTIVITIES

Meeting Coordination and Staffing

- 1. Organize Board and committee meetings:
 - · Fall Strategy Session
 - Legislative Committee meetings, at the call of the chairman
 - Organize Fall Legislative Board Meeting, one day meeting
 - Organize 1 ½ day Spring Annual Meeting
 - Work with host property and program volunteers to develop programs, secure speakers. VTA handles meeting logistics, registration, publicity, vendor participation and exhibits, fundraising finances.
 - 3 Executive committee meetings

 Assist VTA Secretary in preparation and distribution of Board and Executive committee minutes.

Financial

- I. Develop and manage budget
- II. Prepare and Distribute financial reports
- III. Organize documents for Audit
- IV. Coordinate solicitation of special contributions
- IV. Write, administer and implement grants
- IV, Manage grant finances

Membership

- 1. Collect member dues
- Develop and distribute member brochures
- 111. Solicit new members
- IV. Manage VTA contact information and Board files
- V. Attend 3 transit system meetings and visit transit properties upon invitation

Other

- I. Serve as VTA point of contact for the public and members
- II. Handle mechanics of awards, nominations and notification, secure plaques



A defibrillator in every health club?

Montgomery County OUR may lead the way



Across the Potomac River, Montgomery County, Muryland is considering requiring an automatic external defibrillator in every health club in the county.

It seems like such a good idea. The only questions that some to mind are, "What look so long?" "Why Im't every jurisdiction following suit?" And "why just in health clubs?"

An AED is familiar to viewors of TV shows such as "ER." The operator calls out "clear" and administers an electric shock to the failing victim, making the patient jump. involuntarily - and jump-starting his or har stopped hours.

Munityn Praisuer, the Montgomery County councilmember who proposed the measure, says that only about 10 percent of people who suffer heart attacks outside a hospital surviva.

Training is needed to use the equipment she is advecating, but if prempts usins with voice commands, providing a sometimes-lifesaving stopgen until the omergency medical team arrives.

At up to \$2,000 per machine, cost is not a major. obstacle. Virginia jurisdictions should consider following Montgomery's lund.

fir fact, it may not be going too far to have all public buildings equipped with AEDs, and to encourage other places where people assemble to provide them as well.

Should health clubs be required to have defibrillators on hand?

YOUR OPINION



Anthony House, self-employed Sacramento CA

Of course they should. They should also have heart-specific signage about various activities, such as time limits in a hot tub, wherever there's exercise."



Tom Adams, consultant Arlington

"Most certainly. I can't think of a place where there's more potential for cardiac arrest. I used to go to Fun & Fitness, a local gym, until they unexpectedly shut their doors.



Billy Brooks, machinist and mechanic Arlington

That's not a bad idea. I go to the Thomas Jefferson Community Center three times a week. There are a lot of older people there walking the track and using the gym, but

medics and Fire Department personnel are also using the facilities all the time. I lost my dad to heart disease."



Toetotoe **DULLES RAIL**

No savings here

As revealed seconly by the Northern Virginia howeal, the Warner administration has been holding secret segociations with a private sector competition known as Dulley Transit Partorre to design and build Dulles Rail

The administration defends this solts source process as a way to save money. Now it appears the plan has backfired. and taxpayers will pay more

Vincent

Breakthrough Technologies Inst.

for Dulles Rail Dulles Transit Pariners has offered to complete preliminary engineering for Sol multion, roughly

Technologies Inst. 13 percent higher than the \$54 million Metro needs in do the work itself Thus the administration's "cost-saving" procurement will cost the taxpayer \$7 million

more than otherwise.

The apparent failure of secret negotiations to yield the best value is a textbook illustration of why competition is resential in government. contracting. Competition ensures that the public gets the best value because bidders who

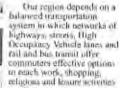
fail in offer reasonable prices pay a stiff penalty, they do not get the contract. The Warner administration's secret, sole source strategy is particularly troubling hecause Buchtal Largeonics as sessional in Dullar Bechtel Corporation is a principal in Dulles Transit Partners. Bechtel was also part of the partnership that built Boston's "Big Dig," a project to hury a couple miles of highway near. Boston's waterfront originally estimated at \$2.5 billion, but wound up costing \$15 billion. This spring Massachuseus filed soit against

This spring Massachuseus tites son again the Bechiel patnership, calling its managemen of the project a financial "shell game." Given Bechiel's track record, the Warner administration's strategy is similar to the soile source scandal involving Vice President Dick. Chemy's furner firm. Hallibuston. It influents the Big Dick and Hallibuston.

Unlike the Big Dig and Halliburton, it is not too late to prevent the Dulles Rail contract

from turning into a raid on the public pure. All
potential hidders should be invoked in submit bids.
To award this contract based upon sevent,
note source negotiations—rather than full and
open composition—is simply not defensible
withventa forbetts.org.

Balancing the costs



Euille

Chairman.

No.Va. Transportation

Just as our transportation system must be balanced, so liso must the means we use to pay for it reflect a reasonable bal-

nice between federal, William D. rinte, regional and local governments, the private sector, users and others who

The Northern

Commission Virginia Transportation Commission is delighted that the Meteorail expansion into the Dulles corrider is being supported by such funding partnerships.

We can't pave our way out of congestion. The Dulles corridor and the Tysona Corner

the bulles corridor and the Tysona Corner area are near gridlock during peak commuting bodes, costing both time and runney for area residents and business. During the peak rush hour, the Metrorail extension will carry the equivalent of four new lanes of traffic on the Dulles Toll Road If these areas are to continue to grow and prosper, we need rail transit to supplement the bus rapid transit service already being

provided in the carridor.

Metrorall is an excellent investment for Virginia A study conducted by KPMG Peat Marwick found that investments in Metrorall yield a sturning 19-2 percent annual rate of return as measured by tax revenues induced through 90,000 new jobs, more hotel mores and other business activities.

On a typical weekday last year, bus and gall trunsit carried over 417,000 trips in Nurthern Virginia, many in the most heavily congested corridors during peak commuting hours. Transit makes algoil contribution to air quality, energy conservation and troffic relief – while creating economic value tround key station locations. www.thinkoutsidethecon.org.

YOUR LETTERS

Admission process isn't the problem

In "Diversity still lacking at premier magnet school" (May Drew Bush seems to think that there is something wrong with Thomas Jefferson H.S. for Science & Technology's admission process since an 'overwhelming majority of white and Asian students were admitted to THIS's 2008

TFs mission is to serve 'sindents with high ability, aptitude and interest in mathematics, science and technology."

If it accomplishes this fairly by using a standardized scodenic entrace exam that is based on merit stone and is blind to tace, the "diversity" of the clien would be consistent with the "diversity" of the colour most qualified among the applicants

One might question whether the effication system is preparing students properly, or if some schools where underrepresented. demographics originate are

not up to pur. Hur artificially contorting the admination process to Til some identized demographic is discrimination itself, and promotes commund discrimination at the lower-level schools that perform

posivly. One would hope that professionals would be able to recognize that the root

nource is not in the unbiased admissions process. I have not looked at the data or a qualified analysis, so Mr Bush may be right, even if his methods are faulty. However, in the past others apparently have, and found discrimination in the opposite direction of what seems to be asserted by Mr. Bush!

Students with high levels of merit were passed over for lesser qualified students in order to artificially create some pre-set definition of "appropriate diversity" would hope that by now the problem has been addressed and the discrimination ended.

Moreover, one would hope that the school system has found the actual source of the phenomenon. Statistics should speak for

themselves, and I don't mean simplistic nonsense too often employed by those with a hidden agenda, but rigorous methods of hypothesis testing whose results are unchallengeable

One would expect that the very school that should be teaching these analytic methods to its students would take the time to apply the same methods to itself, and make sure its admissions process was unhanted.

- LAZLO PENTEK Actuary, D.C. Dept. of Insurance. Securities and Banking



Journal Newspapers Invited Op-Ed

-- May 6, 2004--

NVTC Supports Metrorall in the Dulles Corridor by William D. Euille, NVTC Chairman and Mayor, City of Alexandria

The Northern Virginia Transportation Commission (NVTC) endeavors to provide citizens of the region with a solid factual basis for informed transit decision-making. Based on those facts NVTC supports the expansion of Metrorall in the Dulles corridor.

Our region depends on a balanced transportation system in which networks of highways, streets, High Occupancy Vehicle lanes and rail and bus transit offer commuters effective options to reach work and recreational, shopping, religious, and other leisure activities. Just as our transportation system must be balanced, so too must the means we use to pay for it reflect a reasonable balance between funding partners, consisting of federal, state, regional and local governments, the private sector, users and others who benefit. NVTC is delighted that the Metrorail expansion into the Dulles corridor is being supported by such funding partnerships.

The fact is that we can't pave our way out of congestion. The Dulles corridor and the Tysons Corner area are near gridlock during peak commuting hours, costing both time and money for area residents and business. During the peak rush hour, the Metrorail extension will carry the equivalent of four new lanes of traffic on the Dulles Toll Road. If these areas are to continue to grow and prosper, we need rail transit to supplement the bus rapid transit service already being provided in the corridor.

The reality is that Metrorail is an excellent investment for Virginia. In a study conducted by KPMG Peat Marwick for NVTC, investments by the commonwealth in Metrorail were found to yield a stunning 19.2 percent annual rate of return as measured by tax revenues induced through 90,000 new jobs, more hotel rooms and other business activities.

On a typical weekday in FY2003, Northern Virginia bus and rail transit systems carried over 417,000 trips in Virginia. Annually, Northern Virginia's transit systems carry over 121 million trips. Many of these trips occur in the most heavily congested commuting corridors during peak commuting hours, which is why transit makes such significant contributions to air quality, energy conservation and traffic relief while creating economic value around key station locations.

In a recent study by the Texas Transportation Institute, results indicated that "if not for transit in the D.C. metro area, congestion would be 33 percent worse than it is today." According to the same study, transit saves \$1billion annually in time and fuel for non-transit users.

The bottom line: Where transit investments have been made, they are yielding strong returns. Metro's expansion into the Dulles corridor is the next logical step.

The Northern Virginia Transportation Commission serves over 1.5 million citizens in a 1,000 square mile region including the cities of Alexandria, Fairfax and Falls Church; and Arlington, Fairfax and Loudoun counties. The commission focuses on funding public transportation, among other planning and policy functions, and manages approximately \$100 million annually in state and regional funds for transit. It is a co-owner of the Virginia Railway Express commuter rail system and appoints Virginia's members of the Board of Directors of the Washington Metropolitan Area Transit Authority. For more information about NVTC, visit www.thinkoutsidethecar.org.

Journal Newspapers Invited Op-Ed

-- May 6, 2004--

NVTC Supports Metrorail in the Dulles Corridor by William D. Euille, NVTC Chairman and Mayor, City of Alexandria

The **Northern Virginia Transportation Commission** (NVTC) endeavors to provide citizens of the region with a solid factual basis for informed transit decision-making. Based on those facts NVTC supports the expansion of Metrorail in the Dulles corridor.

Our region depends on a balanced transportation system in which networks of highways, streets, High Occupancy Vehicle lanes and rail and bus transit offer commuters effective options to reach work and recreational, shopping, religious, and other leisure activities. Just as our transportation system must be balanced, so too must the means we use to pay for it reflect a reasonable balance between funding partners, consisting of federal, state, regional and local governments, the private sector, users and others who benefit. NVTC is delighted that the Metrorail expansion into the Dulles corridor is being supported by such funding partnerships.

The fact is that we can't pave our way out of congestion. The Dulles corridor and the Tysons Corner area are near gridlock during peak commuting hours, costing both time and money for area residents and business. During the peak rush hour, the Metrorail extension will carry the equivalent of four new lanes of traffic on the Dulles Toll Road. If these areas are to continue to grow and prosper, we need rail transit to supplement the bus rapid transit service already being provided in the corridor.

The reality is that Metrorail is an excellent investment for Virginia. In a study conducted by KPMG Peat Marwick for NVTC, investments by the commonwealth in Metrorail were found to yield a stunning 19.2 percent annual rate of return as measured by tax revenues induced through 90,000 new jobs, more hotel rooms and other business activities.

On a typical weekday in FY2003, Northern Virginia bus and rail transit systems carried over 417,000 trips in Virginia. Annually, Northern Virginia's transit systems carry over 121 million trips. Many of these trips occur in the most heavily congested commuting corridors during peak commuting hours, which is why transit makes such significant contributions to air quality, energy conservation and traffic relief while creating economic value around key station locations.

In a recent study by the **Texas Transportation Institute**, results indicated that "if not for transit in the D.C. metro area, congestion would be 33 percent worse than it is today." According to the same study, transit saves \$1billion annually in time and fuel for non-transit users.

The bottom line: Where transit investments have been made, they are yielding strong returns. Metro's expansion into the Dulles corridor is the next logical step.

The Northern Virginia Transportation Commission serves over 1.5 million citizens in a 1,000 square mile region including the cities of Alexandria, Fairfax and Falls Church; and Arlington, Fairfax and Loudoun counties. The commission focuses on funding public transportation, among other planning and policy functions, and manages approximately \$100 million annually in state and regional funds for transit. It is a co-owner of the Virginia Railway Express commuter rail system and appoints Virginia's members of the Board of Directors of the Washington Metropolitan Area Transit Authority. For more information about NVTC, visit www.thinkoutsidethecar.org.

AMURICAN FUBLIC TRANSPORTATION ASSOCIATION



(PT)2 Evaluation and Report

Research has been a key element in the development of the (PT)² program and has also been designed to help measure its overall effectiveness. Following completion of the advertising flight pattern in late March, as in years past. Wirthlin Worldwide conducted a research study to monitor campaign success.

The study interviewed 505 Influentials¹ living across the United States and an additional 150 living in Washington, D.C. The interviews were conducted over the telephone between March 29th and April 7th, 2004. A benchmark study was conducted January 7th and 12th, 2002 to provide a baseline measure of attitudes prior to campaign commencement. This report highlights differences in public opinion between these points in time.

Tracking of American attitudes toward public transportation and the impact of (PT)² revealed positive improvement on key campaign measures. The success of the (PT)² campaign is measured on many dimensions, a number of which are evaluated below.

Over the course of the campaign, the key measures that matter most to the campaign have shown significant improvement:

- The level of favorable opinion toward public transportation significant increase;
- A reduced level of positive feelings toward driving your own car and an increased favorability toward taking the bus. While Americans still rate driving their own car very high, it is important to recognize that current conditions and other factors have made the public less enamored with driving than they have been in the past and more interested in other modes of transportation;
- The level of support for allocation of tax dollars toward the expansion and improvement of public transportation services in their community – significant increase;
- The level of awareness of transportation coverage significant increase; and
- The level of awareness of specific benefits centering around freedom and mobility, access, opportunity, community, economy and choice, and traffic congestion reduction – meaningful increase.

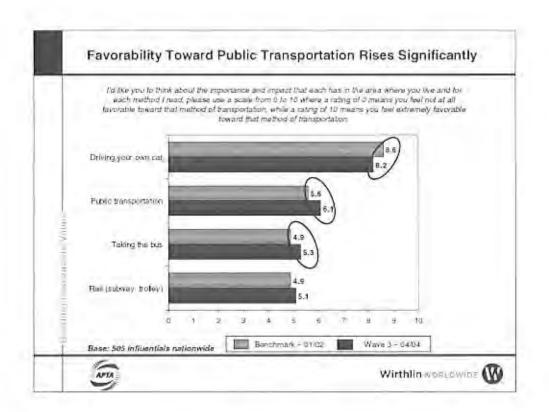
The strong gains/improvements in awareness and favorability for public transportation achieved by the (PT)² program in years one and two have effectively been sustained in year three. While there has not been any statistically significant increase across key measurements since last year's poll, it is clear that the (PT)² program continues to maintain the high levels of awareness and favorability initially generated in the earlier stages of the campaign.

Results of these tracking measurements among Influentials nationwide and inside the Washington DC Metropolitan area are presented on the following pages.

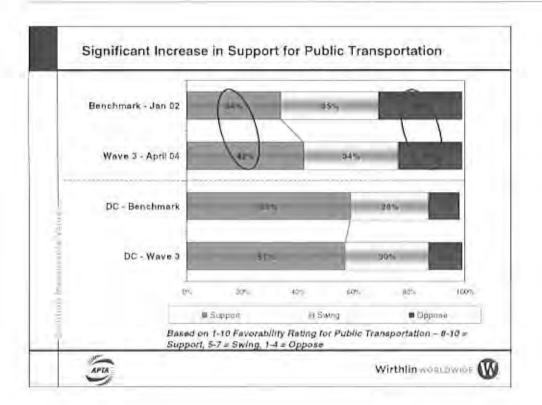
APBII 2004

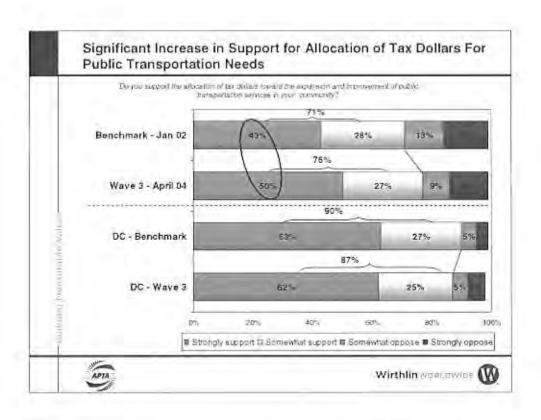
¹ Influentials are activists and opinion leaders and comprise the 15-20% of the population who engage in several activities that make their voice heard: writing a congressperson, calling into a radio talk show, working for a political candidate, speaking in a public meeting, etc.



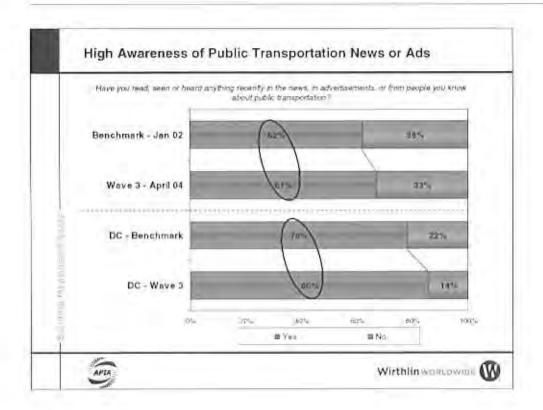


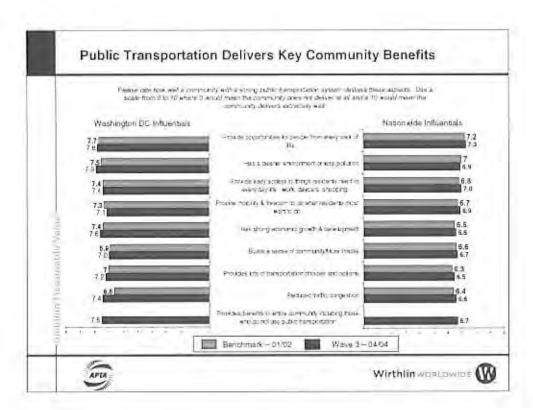














Rick Taube

From: Alfred Harf [aharf@omniride.com]
Sent: Friday, May 14, 2004 12:37 PM

To: Caddigan Maureen, Cavalier Jack (E-mail), Chip Badger (E-mail), Covington, Wally, Gibbons Bob

(E-mail); Greenup Bill (E-mail); Grzejka John (E-mail); Hilda Barg (E-mail); Hill Corey (E-mail); Houck Edward (E-mail); Hughes Lawrence (E-mail), Jenkins John; Lasch Lorraine; Lingamfelter Scott (E-mail); McQuigg Michele (E-mail); Nohe Martin; Painter Dan (E-mail); Pash Gary D. (E-mail); Preli Sorine (E-mail); Rodenberg, Phillip; Rutherford David; Sharmila Samarasinghe (E-mail); Slater Noreen (E-mail), Snellings Gary F. (E-mail); Stewart, Corey; Stirrup John; Turner, David A.

Jr.; Whelan Tom; Wren Bill (E-mail)

Cc: Rick Taube; Dale Zehner (E-mail); 'jstraub@vre.org'; 'tashby@vre.org'; Betsy Massie; Eric Marx,

Joyce Embrey; Sheila Larson

Subject: FW. Spotlight on the Region, vol. #52

FYI

Original Message——

From: alex@rpa.org [mailto:alex@rpa.org] Sent: Friday, May 14, 2004 12:38 PM

To: aharf@omniride.com

Subject: Spotlight on the Region, vol. #52



May 13, 2004 | Vol 3 No 11

In This Week's Issue:

--In New Jersey , Putting Numbers Behind The Transit and Real-Estate Connection.

--Massachusetts Encourages Another Kind Of Marriage: Low Cost Housing And Equitable Education Funding.

-- What's Up: The Calendar

What We Know: Transit Investment Worth its Weight in Real Estate

With a relatively paltry \$69 million investment in 1996, NJ Transit created the MidTown Direct train service, which provided a one-seat ride to Manhattan for thousands of commuters previously forced to transfer at Hoboken.

What did the state get for its money, beside happier commuters? It looks like a dramatic increase in property value around the stations that is producing new taxes that by all odds dwarf the initial project cost. In the long run, the state can expect continuing and positive changes in land use around the stations that curb sprawl and produce pedestrian friendly communities.

All this was shown or suggested in a new study by Juliette Michaelson, a Masters Candidate at Columbia University, Michaelson looked at real estate values around the Morris and Essex lines in Northern New Jersey. Previously, these residents had to transfer in Hoboken to PATH to get to jobs in Manhattan. Constructing the short piece of track that connected the two lines had been contemplated since at least the 1960s.

The report puts dollar figures on something most of us generally believe to be true, but is seldom quantified: that government investment in mass transit can produce big, positive changes in real estate values, as well as in overall land use patterns. The fact that so few studies quantify this points to the still disturbing gap between the professions of transportation planning and land-use planning - something we need to end if either is going to be effective.

Michaelson's study asked a simple question: What is the relationship between proximity to transit and land value? Working under the guidance of faculty advisor Elliott Sclar, she showed results that are exactly what local transit advocates have hoped for - but have seldom fried to calculate with any real precision.

Thanks to excellent bookkeeping by the State of New Jersey (we New Jerseyans are serious about our home values!), Michaelson's analysis shows that from 1993 to 2003, real estate prices in communities served by the new service have soared. That's no surprise – real estate has gone up everywhere. But using time-series modeling and regression analysis, the research also shows that the closer a house is to a train station, the more its value increased. Residential properties within a half-mile of the stations increased by 113%, accounting for inflation, while properties a half-mile to two miles away increased by 82%. And houses more than two miles from train stations only saw their values rise by 65% – a bit more than half the rate of increase for properties close to the station.

Furthermore, being within walking distance of a train station went from being a drag on the value of a house - in 1993, being near a train station would on average decrease the value of a property by \$28,000 - to being a positive factor. In 2003, the difference in value between two comparable houses - the only difference being proximity to transit. - was that the house closer to the train would cost about \$90,000 more than the other. That's a big difference. Even accounting for inflation and general home value increases, homebuyers were willing to pay considerably more to be within walking distance of the train stations in 2003 than they were in 1993.

So now we can place hard numbers on the anecdotal evidence: yes, improved transit does increase home values, by this much, and under these circumstances. Other factors, including the number of trains serving a station, and the relative value of real estate before the improved service, also influence these results.

What It All Means: Little Changes Produce Bigger Ones

This research has many far-reaching implications, for land use, real estate, transportation planning, and Governor McGreevey's goal of promoting Smart Growth in New Jersey. MidTown Direct cost only \$69 million to build. That's pocket change for a big state like New Jersey. Yet it took decades to make it happen. When you consider the thousands of homes that have increased in value, the return on investment is remarkable. Why should this have taken so long? In an era when we don't have enough capital funds to pay for other much-needed transit investments - such as a new commuter rail tunnel under the Hudson River, a connection for the LIRR to Grand Central Terminal, and especially the Second Avenue Subway - It's hard to understand why we haven't figured out a better way to capture some of this value and use it to finance the infrastructure up-front.

The study's conclusion also points to benefits that are harder to quantify: for example, the thousands of acres perhaps saved from sprawl by lessening the pressure on local government to open up more land to development, or the pressure on transportation departments to build more roads. In the areas affected by MidTown Direct, we should see not only a rise in real estate values, but in the total number of homes close to the train stations - If zoning is in place to allow beneficial growth.

The disturbing thing is that there was an ad-hoc quality to the positive results of MidTown Direct. No one really intended to change land use or increase real estate values, or prepared for these changes. Transportation planners in New Jersey admit that they were just trying to improve train service; land use planners were oblivious to the potential effects of this. As far as anyone can tell, even as the new service was

being built out in Kearny, none of the communities along the Morris and Essex lines were plaining for this kind of growth. None of them saw the changes that should have been so predictable, and were thinking about how this would create opportunities, or pressures, that they should anticipate. That would have been making a connection between land use and transportation. It's still something we don't do very well.

That hasn't always been the case. The great Lewis Mumford tells us that the ancient Romans planned their garrisons around a crossroads, and in dimensions and scale that articulated travel times into community plans. In the 19th century, Greater New York City was incorporated as a single municipality by the overwhelming desire of far-flung communities in Brooklyn, Queens and the Bronx to be connected to Manhattan's growing transit and road network. Thus did transportation needs dictate political jurisdictions and nurture the rise of one of humanity's greatest accomplishments, the modern metropolis.

Yet by the mid-20th century, an entire generation of Department of Transportation planners, perhaps inspired by the accomplishments of Robert Moses, rose through the ranks thinking "we don't do land use." Transportation planning, they would argue, is about flows and throughput, minimizing hazards and obstructions (what you and I might call "trees" or "pedestrians") and, most importantly, minimizing appropriate levels of service. That declining service may have nothing to do with transportation itself - the road was just fine, until someone plopped a Wal-Mart on the shoulder - was beside the point.

It seems that some lessons need relearning every generation or so. Institutionally, urban planners lost sight of the dynamics that create successful, living communities. None more so than the simple and direct relationship between land use and transportation; you can't do one without the other. Despite this obvious relationship, the fields of transportation planning and land planning have spent years "decades even" isolated and apart. Why is this?

Some history here. The divergence between these professions appeared in the first part of the 20th century with the rise of social science and the growing false confidence in the ability to quantify and predict social and cultural changes. So universities across America changed their departments of "politics" and "sociology" to "political science" and "sociology" to spolitical science and social science. In a similar change, planners began to look less at the placement of bridges and train lines, and more at housing policies. Gradually, land use planning and transportation planning moved into different departments. Engineers took over the study and design of our roads and transit systems, while planning programs ended up in either schools of design or public policy – never quite sure where they fit in. And the study of real estate or economics – well, forget about it.

So it's no surprise that plainers repeatedly get surprised by the benefits that wise decisions in one field can have on the other. A well planned mixed-use community works best when located next to transit lines. And wise investments in transit can generate positive effects for land use.

Thank goodness New Jersey's leaders found the resources to make this excellent investment. Now where is the money going to come from to pay for the next critical project? Have we learned from the past? The Secaucus Transfer opened a few months ago, providing dramatically improved commutes to Manhattan (although not a one-seat ride) for residents of dozens of communities in Orange, Bergen, Passaic and Rockland counties. Michaelson's thesis should encourage these communities to capitalize on the relationship between land use and transportation, and plan for the benefits of improved transit connections.

They're benefits we can collectively take to the bank.

-- Thomas K. Wright, Executive Vice President, RPA

Massachusetts Encourages Another Kind Of Marriage: Low Cost Housing And Equitable Education Funding.

The two have had an illicit relationship for years. Now it's time they settled down and



THE BROOKINGS INSTITUTION

CENTER ON URBAN AND METROPOLITAN POLICY 1775 Massachusetts Avenue, NW Washington, DC 20036-2188 Tel: 202-797-6139 Fax: 202-797-2965 www.brookings.edu/urban

May 17, 2004

Dear Friend,

The Brookings Institution Center on Urban and Metropolitan Policy would like you to join us for a lunchtime discussion of Anthony Downs' latest book, Still Stuck in Traffic, on June 14.

Many Americans view traffic congestion as the most serious environmental problem facing communities today. While overwhelming public sentiment has forced local governments to employ a variety of anti-congestion strategies, it has been difficult to gauge their efficacy. Only one thing is certain: Most metropolitan residents believe that traffic congestion is getting worse, not better.

In this long-awaited new edition of his landmark 1992 work, *Stuck in Traffic*, Dr. Downs seeks to assess the utility of anti-congestion programs. Drawing on a significant body of research, the book examines the advantages and disadvantages of various strategies, considers the causes of worsening traffic problems, and weighs efforts to remedy or reduce their intensification. This edition contains wholly new chapters on the fundamental cause of congestion, how bad it is across the country, how much is caused by accidents and other incidents, whether expanding transit capacity can help overcome congestion, and the detailed dynamics of how congestion arises on expressways each day.

After Dr. Downs' presentation, two local leaders, Christopher Zimmerman from Arlington County, and Emil Wolanin from Montgomery County, will provide their perspectives on the book in the context of efforts to address traffic congestion in the Washington, D.C. metropolitan area. A question and answer period will follow.

Anthony Downs is a senior fellow at Brookings where he has been since 1977. His specialties are housing, real estate finance, metropolitan planning, demographics, and transportation. He is the author or co-author of 20 books including *An Economic Theory of Democracy, Inside Bureaucracy* and *New Visions for Metropolitan America*. Christopher Zimmerman is a member of the Arlington County Board. He is also on the Board of Directors of the Washington Metropolitan Area Transit Authority and chairs the regional Transportation Planning Board. Emil Wolanin manages Montgomery County's state-of-the-art Advanced Transportation Management System.

The discussion will be held on Monday, June 14th, from 12:00P.M. – 2:00P.M. at the Carnegie Endowment for International Peace, adjacent to Brookings, at 1779 Massachusetts Ave. NW (202-483-7600). Books will be available for purchase and lunch will be served. A book signing will follow.

We hope you can join us for this engaging session. Since seats are limited, please confirm your attendance with our event coordinator, Saundra Honeysett, by June 7th via phone, 202-797-6270, or e-mail, shoneysett@brookings.edu.

Sincerely,

Bruce Katz

Vice President, The Brookings Institution Director, Center on Urban and Metropolitan Policy



ITS in transit wins thumbs up

Northern Virginia transit passengers have given a generally favourable verdict on currently transit ITS applications in their area, regarding them as useful and easy to use

The results come from a study commissioned by the Northern Virginia Transportation Commission to inventory and review transit-related ITS projects in the region. Its results will be detailed this afternoon as part of the Annual Meeting's Session 19 – Surviving or Thriving? The session will ask what will be required to make transit really take off.

The Northern Virginia study included interviews with transit

managers and vendors, and a survey of passengers.

Surveys were distributed to more than 14,000 Northern Virginia transit riders at several large transit stations, including Metrorail and Virginia Railway Express stations where passengers also interlink with Metrobus and local bus routes. Almost 2,300 – approximately 16% - of those receiving the questionnaire responded.

Results included:

 Survey respondents were widely supportive of the current use of technology on transit services in the region and to a large

extent of expanded use of technology.

 Most respondents felt that the most important focus of technology should be on offering time savings to passengers (through improved on-time performance and reduced travel times) and ensuring overall safety and security. Information services were also rated as important.

There was a wide range of familiarity with, and use of, current ITS services.

 Based on their current use of the transit ITS applications, respondents reported some effects on travel behaviour, although half reported no impact. Pittsburgh, Miami, New York,
Washington, Denver, Oakland, Chicago,
Kansas City, Hampton Roads,
Knoxville, Atlanta, Boston, Providence,
New Orleans, Seattle, Tampa, Hartford,
Charleston, Philadelphia, San Diego,
Sacramento, Milwaukee, Raleigh



more than a product, a Solution.

Solutions come from experience and EIS continually ranks as the leading detection solutions provider in the industry.

See a demo at Booth #324



EXCELLENCE • INTEGRITY • SUPPORT

EIS Electronic Integrated Systems Inc. 150 Bridgeland Ave., Toronto, Ontario Canada M6A 1Z5 Tel: (416) 785-9248 Fax: (416) 785-9332 Email: Info@rtms-by-eis.com Web; www.rtms-by-eis.com

from the April 20,2000 ITS litt Daily News

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Richard K. Taube and Kala Quintana

DATE: May 27, 2004

SUBJECT: NVTC's September 2, 2004 Meeting in Alexandria

To continue NVTC's commemoration of its 40th anniversary, the September 2nd NVTC business meeting will be held in the City Council Chambers in Old Town Alexandria. The meeting will encourage public participation and will also emphasize the 20th anniversary of DASH.

More details will be provided prior to the event.

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Scott Kalkwarf and Colethia Turner

DATE: May 27, 2004

SUBJECT: NVTC Financial Reports for April, 2004

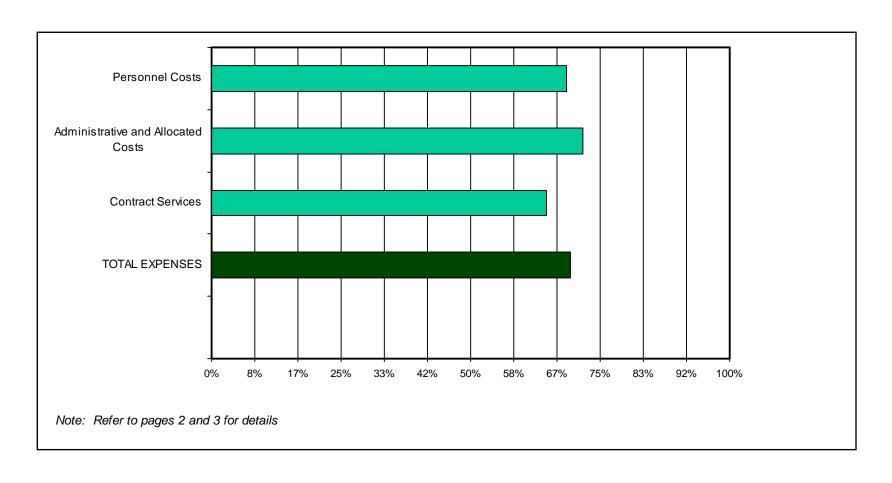
The April, 2004 financial reports are attached for your information.

Attached for your information is a response letter to NVTC's auditors regarding their recommendations to NVTC management as a result of the FY 2003 audit. Representatives of PBGH, LLP are scheduled to meet with NVTC's executive (audit) committee on June 3rd to review this response and to discuss the committee's responsibilities for the audited financial statements. The auditors were at NVTC's offices during the week of May 10th performing preliminary field work and planning for the FY 2004 audit. Final field work is scheduled for the week of August 23rd with the audited financial statements expected to be presented at the October 7th commission meeting.

Northern Virginia Transportation Commission

Financial Reports April, 2004

Percentage of FY 2004 NVTC Administrative Budget Used April, 2004 (Target 83.33% or less)



NORTHERN VIRGINIA TRANSPORTATION COMMISSION G&A BUDGET VARIANCE REPORT April, 2004

	Current <u>Month</u>	Year <u>To Date</u>	Annual <u>Budget</u>	Balance <u>Available</u>	Balance <u>%</u>
Personnel Costs					
Salaries	\$ 39,647.56	\$ 437,717.24	\$ 636,400.00	\$ 198,682.76	31.2%
Temporary Employee Services			1,000.00	1,000.00	100.0%
Total Personnel Costs	39,647.56	437,717.24	637,400.00	199,682.76	31.3%
<u>Benefits</u>					
Employer's Contributions:					
FICA	2,804.30	29,151.59	45,700.00	16,548.41	36.2%
Group Health Insurance	3,848.50	41,683.99	69,000.00	27,316.01	39.6%
Retirement	4,298.00	44,205.00	57,000.00	12,795.00	22.4%
Workmans & Unemployment Compensation	804.66	2,835.72	2,000.00	(835.72)	-41.8%
Life Insurance	291.31	3,089.04	3,300.00	210.96	6.4%
Long Term Disability Insurance	229.39	2,276.74	3,450.00	1,173.26	34.0%
Total Benefit Costs	12,276.16	123,242.08	180,450.00	57,207.92	31.7%
Administrative Costs					
Commissioners Per Diem	1,350.00	10,500.00	15,500.00	5,000.00	32.3%
Rents:	11,911.80	124,507.12	157,300.00	32,792.88	20.8%
Office Rent	11,911.80	117,620.77	145,300.00	27,679.23	19.0%
Parking	-	6,886.35	12,000.00	5,113.65	42.6%
Insurance:	25.70	2,741.00	3,700.00	959.00	25.9%
Public Official Bonds	-	1,413.00	2,000.00	587.00	29.4%
Liability and Property	25.70	1,328.00	1,700.00	372.00	21.9%
Travel:	1,821.42	12,039.19	26,500.00	14,460.81	54.6%
Conference Registration	(55.00)	195.00	3,000.00	2,805.00	93.5%
Conference Travel	551.33	1,950.43	7,000.00	5,049.57	72.1%
Local Meetings & Related Expenses	1,325.09	8,983.32	12,000.00	3,016.68	25.1%
Training & Professional Development	-	910.44	4,500.00	3,589.56	79.8%
Communication:	389.86	7,355.49	13,950.00	6,594.51	47.3%
Postage	42.82	3,468.82	7,000.00	3,531.18	50.4%
Telephone - LD	-	581.04	1,950.00	1,368.96	70.2%
Telephone - Local	347.04	3,305.63	5,000.00	1,694.37	33.9%
Publications & Supplies	1,411.01	14,859.15	24,500.00	9,640.85	39.4%
Office Supplies	417.89	2,710.52	5,300.00	2,589.48	48.9%
Duplication	993.12	10,630.23	13,200.00	2,569.77	19.5%
Public Information	-	1,518.40	6,000.00	4,481.60	74.7%

NORTHERN VIRGINIA TRANSPORTATION COMMISSION G&A BUDGET VARIANCE REPORT April, 2004

	Current	Year	Annual	Balance	Balance
	<u>Month</u>	To Date	<u>Budget</u>	<u>Available</u>	<u>%</u>
Operations:	4,907.95	12,923.96	23,150.00	10,226.04	44.2%
Furniture and Equipment	4,581.00	7,409.75	8,250.00	840.25	10.2%
Repairs and Maintenance	-	214.70	1,000.00	785.30	78.5%
Computers	326.95	5,299.51	13,900.00	8,600.49	61.9%
Other General and Administrative	2,827.45	9,503.65	6,350.00	2,408.75	37.9%
Subscriptions	-	48.00	750.00	702.00	93.6%
Memberships	-	974.00	1,100.00	126.00	11.5%
Fees and Miscellaneous	201.55	2,410.41	2,000.00	(410.41)	-20.5%
Advertising (Personnel/Procurement)	402.84	508.84	2,500.00	1,991.16	79.6%
40th Anniversary	2,223.06	5,562.40			0
Total Administrative Costs	24,645.19	194,429.56	270,950.00	82,082.84	30.3%
Contracting Services					
Auditing	-	10,345.00	14,000.00	3,655.00	26.1%
Consultants - Technical	-	-	1,000.00	1,000.00	100.0%
Legal	-	-	1,000.00	1,000.00	100.0%
Total Contract Services	-	10,345.00	16,000.00	5,655.00	35.3%
Total Gross G&A Expenses	\$ 76,568.91	\$ 765,733.88	\$1,104,800.00	\$ 344,628.52	31.2%

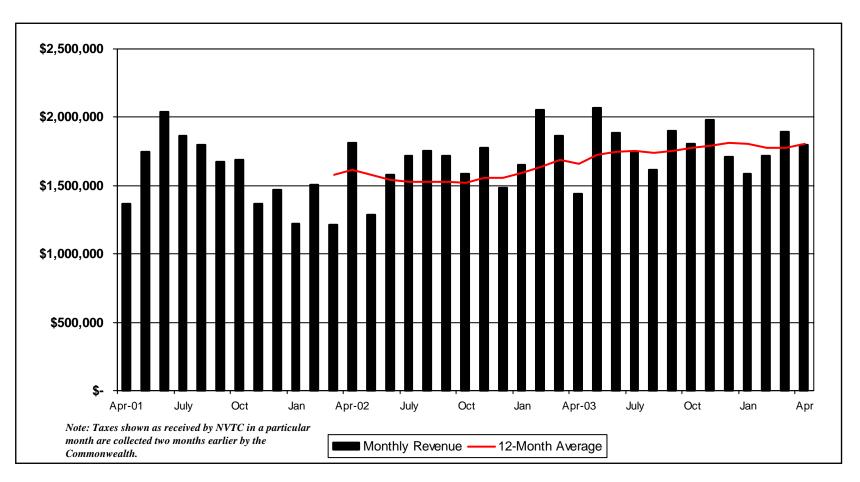
NVTC RECEIPTS and DISBURSEMENTS April 2004

Date	Payer/ Payee	Purpose	Wachovia (Checking)		/achovia Savings)	VA LGIP	VA SNAP
	RECEIPTS						
6	Arlington County	G&A contribution		\$	18,918.00		
6	Staff	Expense reimbursement		,	16.47		
9	DRPT	Code Red grant receipt				420.00	
13	Dept. of Taxation	Motor Vehicle Sales Tax receipt				1,794,803.23	
16	FTA	SmarTrip grant receipt				2,672.00	
19	DRPT	FTM/Admin grant receipt				4,267,394.00	
21	DRPT	Marketing grant receipt				570.00	
23	DRPT	Capital grant receipt				2,870,644.00	
28	Arlington County	Farebox procurement receipt				198,293.00	
30	Staff	Expense reimbursement			22.90		
30	City of Fairfax	Expense reimbursement			14.00		
30	APA	Registration refund			55.00		
30	Banks	April interest income			53.66	40,533.77	
					19,080.03	9,175,330.00	
	DISBURSEMEN	ITS					
1-30	Various	NVTC project and administration	(70,360.01)				
1	WMATA	Debt service				(1,853,125.00)	
1	WMATA	Bus operating				(4,421,207.00)	
1	WMATA	Rail operating				(6,305,029.00)	
1	WMATA	Bus capital				(1,458,939.00)	
1	WMATA	Rail capital				(1,351,237.00)	
14	G. Hoyt Assoc.	Bus Data consulting	(8,046.80)				
14	IBI Group	SmarTrip consulting	(3,339.68)				
30	Banks	April service fees	(70.44)		(3.16)		
			(81,816.93)		(3.16)	(15,389,537.00)	
	TRANSFERS a	nd Adjustments					
2	Transfer	From LGIP to checking	42,000.00			(42,000.00)	
14	Transfer	From LGIP to checking	10,000.00			(10,000.00)	
19	Transfer	From LGIP to checking	30,000.00			(30,000.00)	
30	Transfer	From LGIP to checking	38,000.00			(38,000.00)	
			120,000.00		-	(120,000.00)	-
	NET INCREASE	(DECREASE) FOR MONTH	\$ 38,183.07	\$	19,076.87	\$ (6,334,207.00)	\$ -

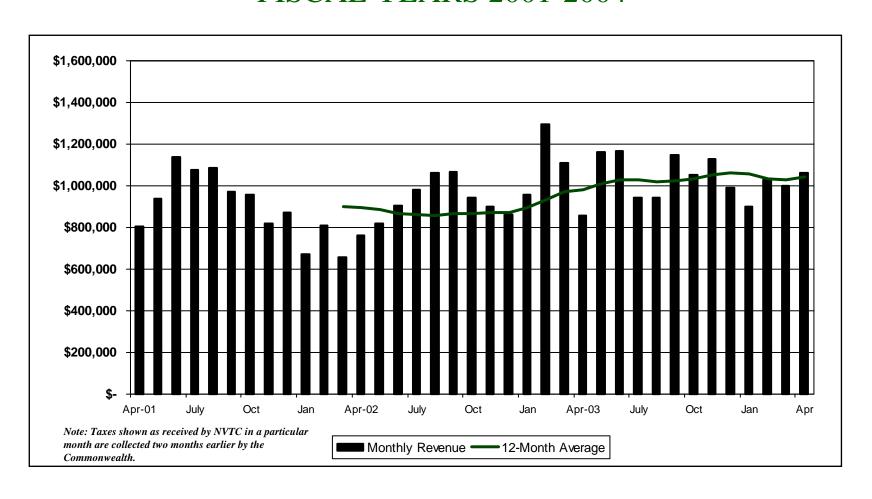
NVTC INVESTMENT REPORT April 2004

Туре	Rate	Balance 3/31/2004	Increase (Decrease)	Balance 4/30/2004	 NVTC G & A	Jurisdictions Trust Fund	Loudoun County
Cash Deposits							
1st Union: NVTC Checking	N/A	\$ 6,055.24 \$	38,183.07	\$ 44,238.31	\$ 44,238.31	\$ -	\$ -
1st Union: NVTC Savings	0.28%	218,027.84	19,076.87	237,104.71	237,104.71	-	-
Investments - State Pool Nations Bank - LGIP	1.08%	57,377,386.15	(6,334,207.00)	51,043,179.15	363,065.62	33,713,244.74	16,966,868.79
		\$ 57,601,469.23 \$	6 (6,276,947.06)	\$ 51,324,522.17	\$ 644,408.64	\$ 33,713,244.74	\$ 16,966,868.79

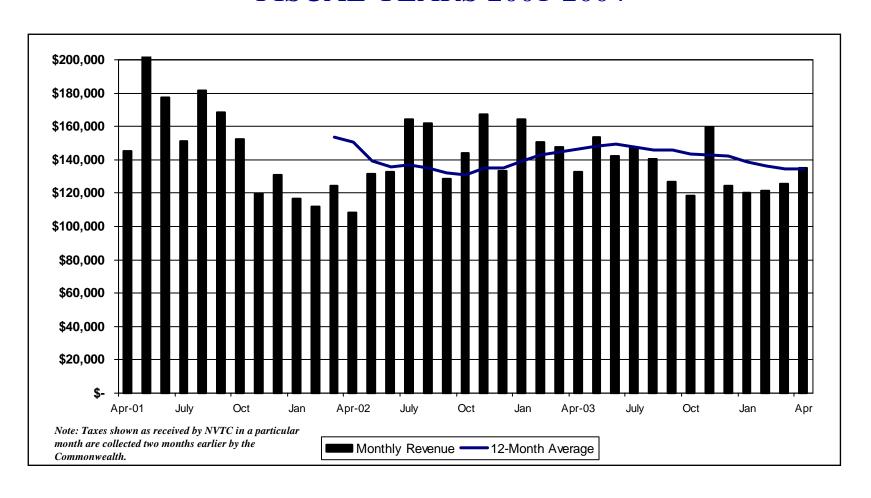
NVTC MONTHLY GAS TAX REVENUE ALL JURISDICTIONS FISCAL YEARS 2001-2004



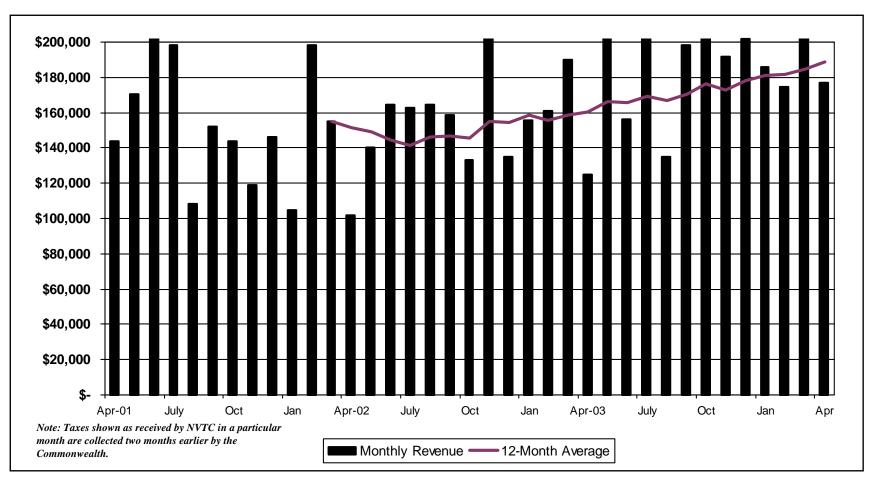
NVTC MONTHLY GAS TAX REVENUE FAIRFAX COUNTY FISCAL YEARS 2001-2004



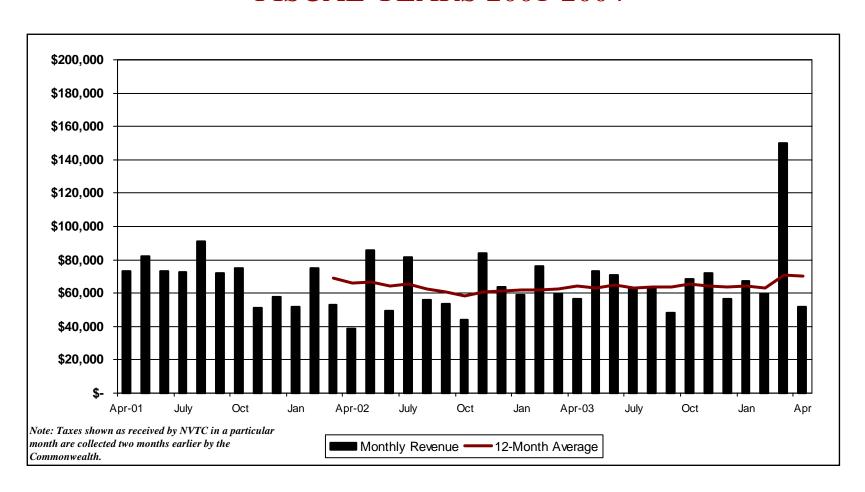
NVTC MONTHLY GAS TAX REVENUE CITY OF ALEXANDRIA FISCAL YEARS 2001-2004



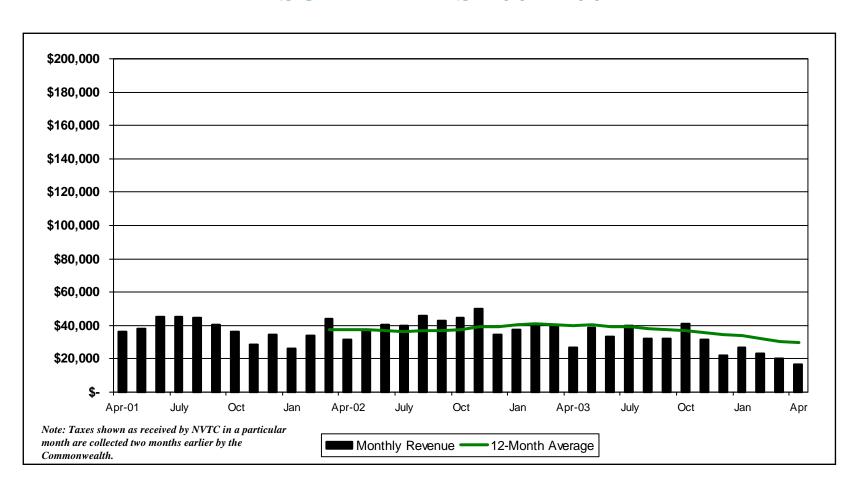
NVTC MONTHLY GAS TAX REVENUE ARLINGTON COUNTY FISCAL YEARS 2001-2004



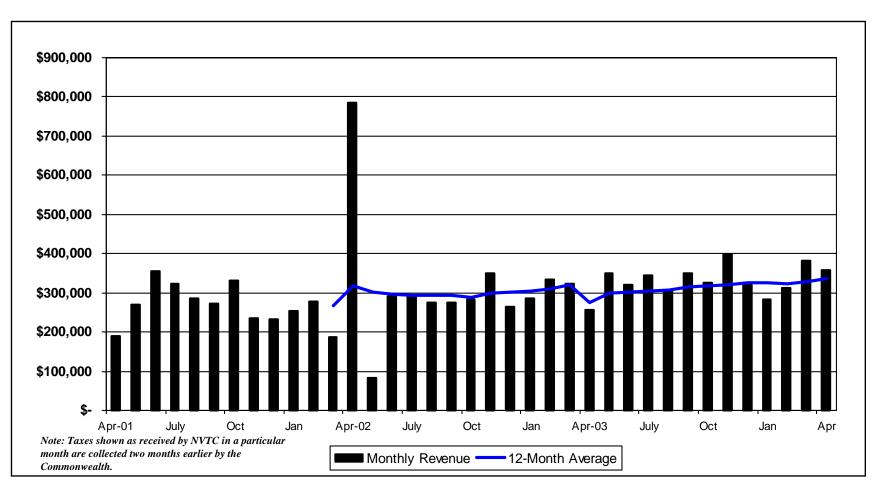
NVTC MONTHLY GAS TAX REVENUE CITY OF FAIRFAX FISCAL YEARS 2001-2004



NVTC MONTHLY GAS TAX REVENUE CITY OF FALLS CHURCH FISCAL YEARS 2001-2004



NVTC MONTHLY GAS TAX REVENUE LOUDOUN COUNTY FISCAL YEARS 2001-2004





May 18, 2004

Mr. Mensel D. Dean, Partner PBGH, LLP PO Box 1226 Harrisonburg, VA 22803

Dear Mr. Dean:

In connection with the planning of NVTC's fiscal year 2004 audit, I would like to take this opportunity to provide in writing the actions we have taken in response to the fiscal year 2003 management letter. We previously discussed these actions with you before NVTC's December commission meeting and recently with your staff while performing preliminary fieldwork for the 2004 audit.

Payroll Processing

<u>Recommendation</u>: We believe controls could be enhanced if the reports provided by Paychex each pay period are received and reviewed by the DFA before being provided to the AFO. Implementing this additional control will help ensure information being provided by Paychex has not been altered before being processed by the AFO.

<u>Action:</u> NVTC immediately adopted this recommendation when it was suggested in September 2003. Previously, the AFO would receive the report directly from Paychex and provide it to the DFA for detailed review. NVTC's Financial Policy and Procedures manual has been updated to reflect this additional step which strengthens the internal controls relating to the payroll process.

Segregation of Duties

Recommendation: Currently, the DFA is charged with the responsibility of maintaining the accounting function as well as the computer network and related duties. Since the separation of these duties is not feasible at this time, we recommend that the Executive Director review a network activity log noting any failed log-on attempts and times and types of log-ons by employees. This review of the activity log may indicate log-on attempts at unusual times or by unauthorized personnel.

Action: With the assistance of NVTC's network consultant, the software utility program Event Analyst has been installed on the server to filter and create reports using the operating system's security event log. The reports show certain logon and attempted logon activity in a web-based format and are emailed automatically by the exchange server to the Executive Director for review. The Event Analyst has also been programmed to provide reports showing logon and attempted logon activity for the accounting system software. NVTC's Financial Policy and Procedures manual has been updated to include this additional computer security measure.

Audit/Finance Committee

<u>Recommendation:</u> We recommend that the Commissioners discuss the benefits of creating an audit committee, or discuss its involvement in the responsibilities listed above. Procedures and controls can exist that are the functional equivalent of an audit committee. Although there are no requirements for an audit committee, it is clear that internal control is strengthened by its presence.

Action: At the December Commission meeting, the Executive Committee agreed to act in the capacity of an audit committee. The committee members understand that among their responsibilities is the ability to speak directly with the auditors. We have requested that members of your staff meet with the Executive Committee in June, before the 2004 audit has been fully planned, to further discuss this role as appropriate for NVTC.

We have scheduled the week of August 23rd for final fieldwork, and look forward to having your staff on site. Please let me know if there is any additional assistance we may provide to make the audit process as efficient as possible.

Sincerely,

Scott Kalkwarf, CPA
Director of Finance and
Administration

cc: Richard K. Taube, Executive Director Betsy Hedrick, PGBH

MEMORANDUM

TO: Chairman Euille and NVTC Commissioners

FROM: Rick Taube

DATE: May 27, 2004

SUBJECT: VRE Items

A. Report from the VRE Operations Board (including minutes of the meeting of May 21, 2004) and from the Chief Executive Officer -- <u>Information Item.</u>

- B. Ceremony for VRE's 25th Millionth Passenger -- <u>Information Item.</u>
- C. Prince William County Parking Improvements -- <u>Action Item/Resolution</u> #1019.
- D. Manassas Airport Authority Parking Improvements -- <u>Action Item/Resolution</u> #1020.
- E. Lease of Warehouse for Spare Parts at Manassas Airport -- Action Item/Resolution#1021.
- F. Construction Contract for Quantico Creek Bridge -- Action Item/Resolution #1022.
- G. Quantico Bridge Dominion Virginia Power Agreement -- <u>Action Item/Resolution #1023.</u>
- H. Definition of VRE Operating Ratio -- Action Item/Resolution #1024.
- I. Additional Contract Authority for Sounder Rolling Stock --<u>Action</u> Item/Resolution #1025.
- J. Qualification and Repair of Gallery Railcars-- Action Item/Resolution #1026.
- K. Phase 2 VRE Strategic Plan -- Action Item/Resolution #1027.

- L. Contract Amendment for Overhaul of Additional Head-End Power Units -- Action Item/Resolution #1028.
- M. Contract for Marketing, Advertising and Public Relations -- <u>Action Item/Resolution #1029.</u>
- N. VRE's 2003 Annual Report Information Item.
- O. VRE Fraud Policy -- Information Item.
- P. Commuter Weekly Feature on NVTC <u>Information Item.</u>
- Q. Extension of Operating Agreement with CSXT -- <u>Action Item/Resolution</u> #1030.
- R. Closed Session on Legal Matters Pertaining to Negotiations of a New Operating Agreement with CSXT (Section 2.2-3711A.7 of the Code of Virginia).

Report from the VRE Operations Board and from the VRE Chief Executive Officer

Minutes of the Board's May 21st meeting are attached for your information, together with the Chief Executive Officer's report and ridership charts.

Dale Zehner's employment contract as Chief Executive Officer of VRE was approved by the VRE Operations Board.



CHIEF OPERATING OFFICER'S REPORT

May 2004

VRE RIDERSHIP REMAINS STRONG

VRE ridership continued to increase during April 2004, as VRE made 19,000 more passenger trips during the month than in April 2003. The monthly daily average was 14,744. Though the average is below the 15,000 threshold posted for the past several months, it is more a reflection of the month than a dip in ridership. April is a month filled with distractions for our ridership since the Easter and Passover holidays coincide with the Spring Break holiday for the local schools. This also is consistent with April 2003, when ridership was less than March 2003.

To clearly see the positive growth of our system, one needs only to look at the fact that we posted almost 325,000 passenger trips during the month. That ridership number is the highest one-month total ever for the month of April. We operated trains with over 15,000 daily riders (including Amtrak numbers) 13 days during the month, and trends in May show us that ridership is back to previous highs of earlier months.

MONTHLY REVIEW OF RIDERSHIP	AVERAGE DAILY RIDERS
VRE April 2004 Average Daily Riders	14,744
VRE April 2003 Average Daily Riders	13,904
PERCENTAGE INCREASE	6%

With only two months remaining in the fiscal year, VRE has already posted nearly 2.9 million passenger trips. There are still two months remaining in the fiscal year, and if ridership continues to track at its current level, ridership for the year should come in around 3.6 million. Again, putting this in context, VRE has provided 415,000 more passenger trips this year than last; staggering numbers when you think about that equales to nearly a month and a half of people riding VRE.

ON-TIME PERFORMANCE

For the first time in a long while, I was disappointed with on-time performance for April. Though it was still very respectable, holding at 90%, I had hoped that the ongoing communications with CSX would have positioned us to make some improvements in train performance in the corridor.

On-time performance is one of my main objectives for our service. I believe it is a benchmark by which customers judge the value of our product, and I want to do everything in my power to make sure their commute is a timely one. That is why I continue talking with CSX about finding a discernable common ground on the recent heat restrictions that have cropped up much earlier this year than in years past. Several days already this year we've had heat restrictions imposed on the service and that has a ripple effect on the entire system and on-time performance.

Another area of concern for me is the growing number of delays related directly to train interference; we've encountered a total of 69 delays during the month with 38 of them being linked to train interference. I will continue to keep working with CSX to bring their dispatchers to the region so that they become more accustomed to the territory. I believe a better understanding of the territory will ultimately lead to improved dispatching.

MONTHLY ON-TIME PERFORMANCE	ON-TIME PERCENTAGE	
VRE April 2004 Fredericksburg OTP Average	87%	
VRE April 2004 Manassas OTP Average	93%	
VRE APR 2004 OVERALL ON-TIME PERFORMANCE	90%	

The table below really illustrates what I addressed in the above-paragraphs. Delays shows that we continue to have reoccurring residual problems in three primary areas - train interference, signal problems, and mechanical issues.

REASON	TOTALS	PERCENT
Signal/Switch Fail	ure 13	19%
Slow Orders	2	3%
M/W	1	1%
Train Interference	e 38	55%
AMTRAK	11	29%
Freight	16	42%
VRE	- 11	29%
Mechanical Failu	re 6	9%
Late Turn	2	3%
PAX Handling	2	3%
Weather	3	4%
Crew Related	0	0%
Other	2	3%
TOTAL	69	100%

NARP PRESENTATION

Several weeks ago I was asked to make a presentation at the annual meeting of the National Association of Railroad Passengers in Baltimore. With about 200 attendees present, I spoke about the demands of a rapidly growing system such as the VRE. Much of the presentation centered on the past work that was done in the Strategic Plan, and how current ridership numbers have even outpaced those initial ridership projections.

Since many of the attendees were familiar with VRE, I was able to cite recent actions by the VRE Operations Board to address needs (seating and parking) that had not existed only a few short years ago. A case in point is the most recent acquisition of the 35 Metra Gallery railcars as a short-term solution to address passenger growth within the system.

VRE CONDUCTS CUSTOMER SURVEY

On May 13, 2004, various members VRE, NVTC, and PRTC staff were on every morning VRE train and the select Amtrak trains to solicit insight from our riding public on the service that we are providing. Reception was supportive, yet somewhat reserved given the fact that only a week or so ago riders learned their fares would be going up as of June 28th.

Even so, staff looks forward to this opportunity to go out and meet with VRE riders. I, too, find it a very rewarding experience and had many engaging conversations with the riders on my train. I firmly believe in the way we embrace our riders and listen to what concerns them is one of the unique things about VRE and one of the things that makes us special.

RAILTIME

In an attempt to provide riders with the most accurate information possible for their commute, last week VRE rolled out *RailTime*, a new and innovative real time train tracking system for our system.

RailTime is a state-of-the-art GPS based tracking system that uses satellite triangulation to track trains. Accuracy of the current system will provide VRE with real time information on train locations within seconds.

We partnered with two companies, Verizon and Microsoft, to put all of the pieces together. Additionally, Turnkey Technologies worked hand-in-hand with VRE staff to build the system from the ground up so that it can do the things necessary to provide real time information to the staff and the public.

25TH MILLIONTH RIDER CELEBRATION

On June 3rd, VRE will commemorate 25 million riders since our inception back in 1992. To mark the occasion, we have partnered with Starbucks and are planning a special celebration at the Alexandria Station. The celebration will be from 10:30 am to 12 noon.

Joining us on this very special day will be Governor Mark Warner. Senator John Warner is also planning on attending, schedule permitting. We're hopeful that many others will join us that day as well. And, not to forget the riders who helped us reach this milestone, we have something planned for them as well. We will promote a special giveaway lottery where passengers can enter to win various donated prizes and giveaways.

OUTREACH WITH NEW PWC ELECTED OFFICIALS

Given the number of newly elected members to the Prince William County Board of Supervisors, I have been going through the County individually meeting with each new member to welcome them into the VRE family, and introduce them to our service.

To-date, I have had the pleasure of sitting down with Wally Covington, whose district could be dramatically impacted by expanded VRE service. Mr. Covington was recently appointed as an alternate on the VRE Operations Board and is a member of PRTC. Mr. Covington was already up to speed on the pressing issues facing VRE. I also met with Martin Nohe, and we had a stimulating conversation on the basis of ridership demand and supply-side economics.

In the coming weeks I will be sitting down with John Stirrup and Corey Stewart,

REAUTHORIZATION STALLED IN CONGRESS

At the end of April, Congress approved a two-month extension for transportation funding that originally expired last September. It is the third time that TEA-21 has been extended, while Congress struggles to reauthorize transportation in the face of competing funding levels from the House, Senate and Administration.

At stake is billions of dollars for transportation, of which a portion would be directed to public transportation to fund certain objectives set forth by the Governor to help VRE. The Senate proposal remains the most ambitious plan with \$318 billion for transportation and \$56.6 billion for public transportation over a six-year period. The House version, after much compromise, was reduced to \$275 billion with \$51.6 billion for public transportation.

The White House remains steadfast in their veto threat that if Congress sends over a bill at a level higher than \$256 billion, the President will reject it. The new extension expires on June

30th, and word on the Hill is that if a compromise cannot be worked out by then, the bill will be put on hold until after the election.

TRANSIT SECURITY LEGISLATION

Because of concerns about transit and rail security, heightened by the recent events in Spain, Congress has recently been very active on examining what can be done to shore up security for public transportation. Out of a series of hearings in the Senate came two separate measures that form the backbone of the public transportation security position.

Back in March, the Senate Commerce Committee, with jurisdiction over intercity passenger and freight rail, moved Senate Bill 2273, the "Rail Security Act of 2004." The bill would authorize \$1.3 billion in funding to improve security on passenger and freight rail systems. The right benefactors of this legislation would be Amtrak and freight railroads, though a case could be made that we'd see some residual benefit if, for example CSX or NS made security enhancements along our corridor.

Many of us in public transportation felt that more needed to be done to address needs of the systems that were carrying tens of thousands of people each day. Last week we got our wish when the Senate Banking Committee, which oversees federal transit programs, approved the "Public Transportation Terrorism Prevention Act," which, if authorized, would appropriate \$5.2 billion for enhanced security for transit. A component of the measure that I believe is necessary is the separation of grant programs into capital and operational. As I stated before, its one thing to give money for all of this highly sophisticated security systems, but with it comes the demands for upkeep and monitoring, which are operational expenses not previously borne by many of the public transportation agencies.

The next expected step is for the Senate Commerce Committee and the Senate Banking Committee to join their respective measures on the Senate floor. Though everyone expects this, there is no definitive timeframe when that might happen.

RUTTER LEAVING AS ADMINISTRATOR OF FRA

Allan Rutter, Administrator of the Federal Railroad Administration and a loyal VRE rider, announced last week that he would be leaving his current post in mid-June to pursue another opportunity in his home state of Texas.

As VRE can attest, under his leadership the FRA saw measurable improvements in a whole host of areas, but the most pronounced was rail safety. His initiatives helped reduce both passenger and freight train accidents and a continued decline in highway rail crossing fatalities.

He will become the new Deputy Executive Director of the North Texas Tollway Authority, and we wish him well in this new endeavor.

Mr. Rutter will be replaced with Betty Monro, who on occasion also rides VRE. Mrs. Monro is currently the Deputy Administrator for the FRA and has extensive years of service on the Hill.

I am setting up a meeting with Mr. Rutter and Mrs. Monro in early June so I can acquaint Mrs. Monro with the VRE operations. I will report back to the Board after this meeting.

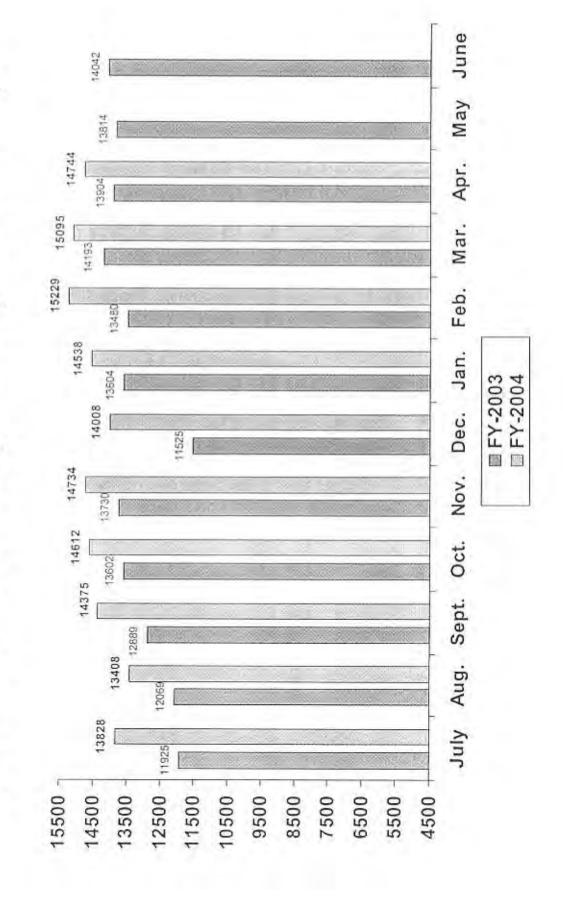
FY 2005 APPROPRIATIONS UPDATE

With Congress and the Administration unable to reach agreement on the FY 2005 Budget Resolution, appropriations committees have not yet made allocations to the 13 appropriations subcommittees in each chamber. That is the first step in writing any of the appropriations bills.

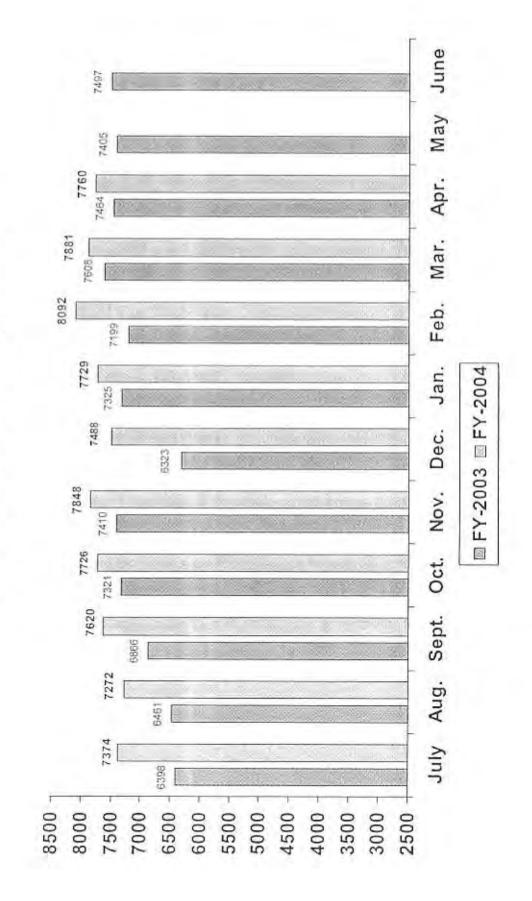
VRE has been working with others to bring to light the fact that the public transportation component of the FY 2005 proposal, as submitted by the President, freezes funding at \$7.26 billion. Any incremental increase will certainly position VRE better in the appropriations scoring process.

With that respect, VRE has been informed that all three of our stand-alone earmark requests (mid-day storage, railcars and security) have been embraced in the Senate and have the backing of Senator Warner and Senator Allen. On the House side, a new policy by Representative Istook limiting individual member submissions has made this more of a challenge, but we remain confident that the NOVA Congressional delegation will come through for us in the end.

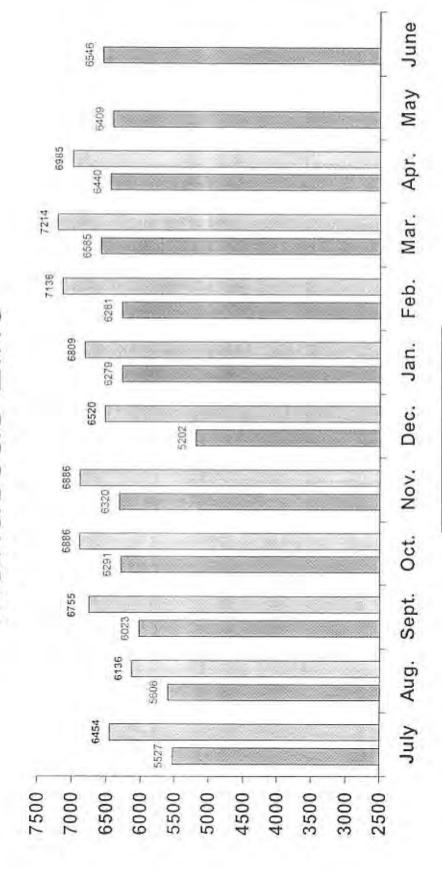
VRE Total Average Daily Ridership



VRE Average Daily Ridership Fredericksburg Line

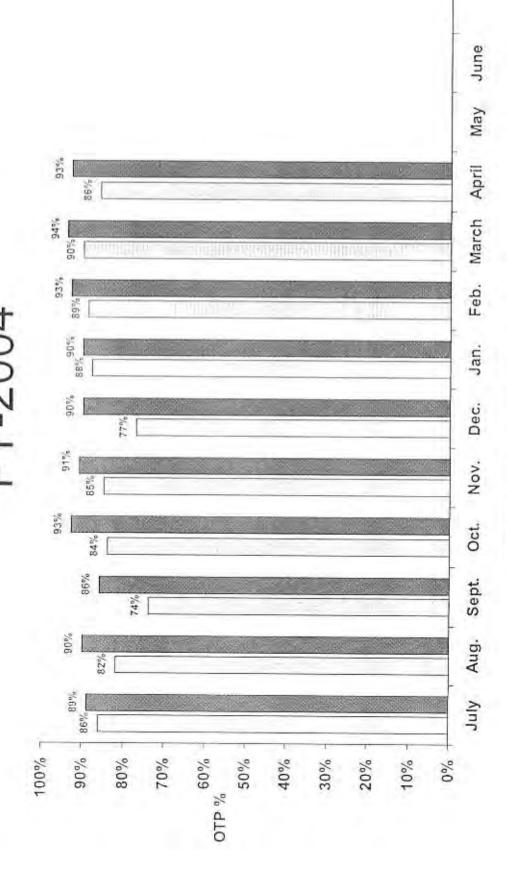


VRE Average Daily Ridership Manassas



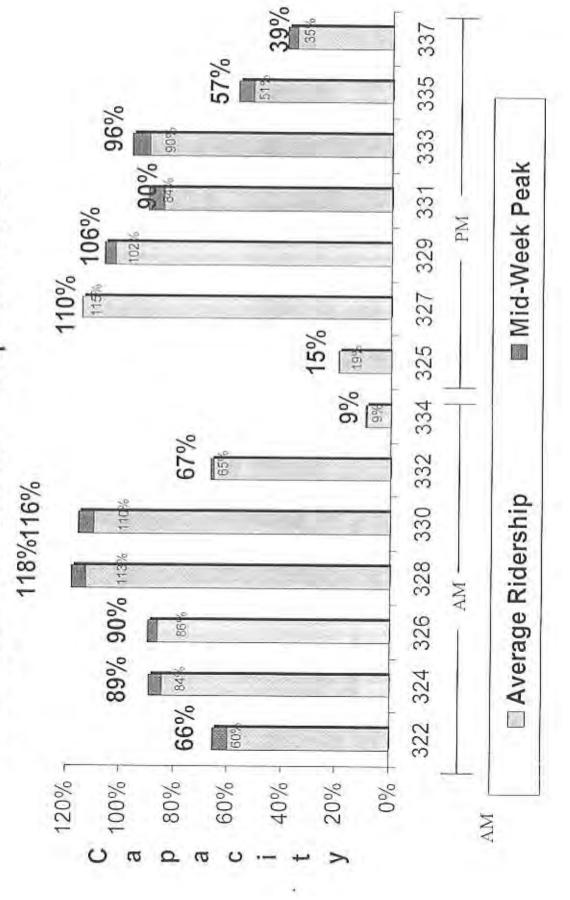
■ FY-2003 ■ FY-2004

Average On-Time Performance FY-2004

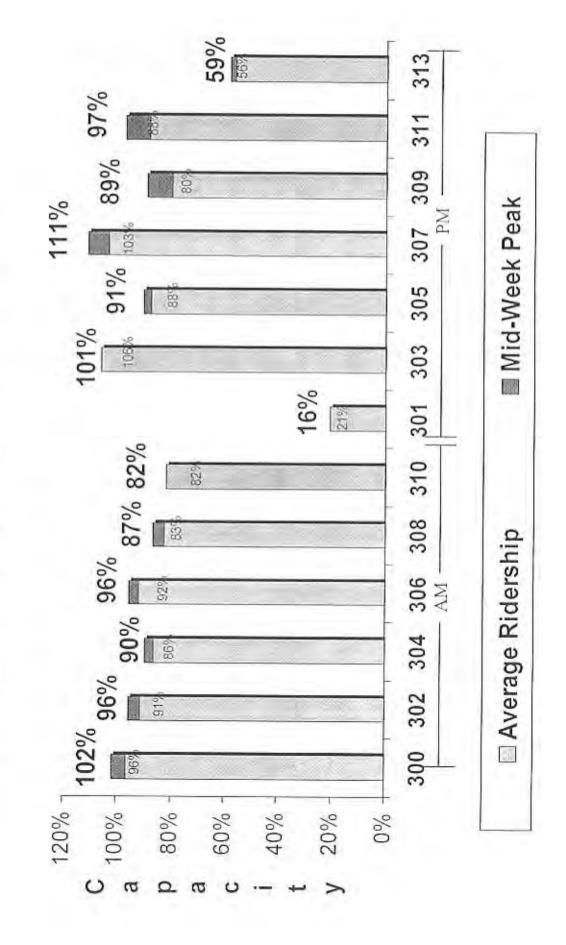


□ Fredericksburg OTP
 ■ Manassass OTP

Manassas Line - April 2004 Train Utilization:



Fredericksburg Line - April 2004 Train Utilization:



Search

Key Word Back Issue

Tools

Custom Folders

Shared Folders

Custom Reports

Options & Info

Log Out

Subscriber Profile

How to Use

Who We Are

Contact Us

Privacy Statement

Copyright

Service Terms

The Associated Press article 57/2004



Virginia Railway Express raising fares again.

By CANDACE SMITH

Associated Press Writer

WASHINGTON (AP, May 6) - Fares are going up on the Virginia Railway Express for the second year in a row.

The Northern Virginia Transportation and Potomac and Rappahannock Transportation Commissions, which own VRE, each approved the increases Thursday night.

Beginning June 28, fares are going up 4 percent to 11 percent, based on the rider's destination. It will cost a rider going from Fredericksburg to Washington, D.C., \$227 a month, up from \$213. Riders traveling from Manassas to D.C. would pay \$185, or \$9 more for a monthly pass, according to VRE spokesman Mark Roeber. The discount monthly ticket holders receive will grow from 30 percent to 33 percent.

VRE riders who use 10-trip tickets will be getting a 10 percent discount instead of the current 15 percent. But Roeber said that is better than the 5 percent that was originally proposed.

"We saw that there were a lot of people through the public hearing process that were now doing telecommuting and we felt that that still warranted a good discount for their patronage," he added.

VRE hopes more of the 10-trip ticket riders will migrate to a new pass in which passengers would pay for four consecutive days and get a fifth day free. It would be sold at a 20 percent discount, with the added lure of only having to validate it once, rather than before each use.

Roeber said the commuter line raised fares because of a lack of extra government funding to

AP Associated Press

0

TOP AP HEADLINES

Rumsfeld Apologizes to Iraqi Prisoners Companies Add 288,000 Jobs to Payrolls

Powell, Rice to Meet With Mideast Leaders Bremer First Heard of Abuse in January Spain Links American to Madrid Bombings New Security Weighed for Nuclear Sites

John Kerry Dismisses Rumsfeld's Apology 51 Million Tune in for 'Friends' Finale Interest Rate Worries Weigh on Investors New Orleans Hornets Fire Coach Tim Floyd read all...

updated: 5/7/2004 4:10:23 PM (eastern) make up about a \$1 million shortfall in its \$54 million 2005 operating budget. The fare increases will raise about \$800,000, Roeber said.

To make up the difference, VRE tickets will no longer be valid on weekend Amtrak trains beginning June 28, while weekday VRE customers will have to pay to board Amtrak trains.

"If you're a VRE rider and you have your monthly pass, you now have to buy a \$1 ticket that you'll give to the conductor on the Amtrak train," Roeber said. He estimates that will save the railway at least \$100,000 in costs it pays Amtrak to give its commuters a ride.

In February, VRE eliminated the partial service it operated on Martin Luther King Day, Columbus Day, Presidents Day and Veterans Day. There is no service on the biggest holidays, such as Christmas.

"Our core business really is serving the business district Monday through Friday, the workweek," Roeber said.

VRE fares last went up 4 percent on July 1. The railway has 16,000 daily riders on its Fredericksburg and Manassas lines.

Metro also is considering fare increases. Base subway could increase by 15 cents, to \$1.35, with the highest rush-hour subway fare climbing to \$3.90.

-30-

Log Out | Subscriber Profile | How to Use | Who We Are | Contact Us | Copyright









A publication of The Erre Classifieds | Newspaper

Home | Automotive | Coupons | Dintery Guide | Employment | FredTalk (Real Estate | Star Directory | Contact Us (Sile In About Us Features, Classifieds, Community Entertainment En Espanol Shopping The From Lance-Star, 93.3 WFLS, WYSK 99.3 C

SUBSCRIBE TODAY!

The Free Lance-Star

WEATHER

Critics railing at VRE

VRE customers not exactly pleased with fare increases, decreasing services.

By EDIE GROSS

Date published: 5/2/2004

Service drops as fares go up

Letters, e-mails and faxes poured into Virginia Railway Express after train officials announced their ticket prices would rise this summer.

If you were a government body, I would be working on a petition to have you removed from office, wrote one angry rider.

Unnecessary, Unwarranted. Baseless, added another.



A conductor steps out onto the platform of the Leeland Road VRE commuter station one evening last week as the train makes its southbound run. Click for larger photo.

At least one, aimed at interim chief operating officer Dale Zehner, was slightly less tactful.

Dale Zehner should rot in hell.

"Some were very crass like that," sald VRE spokesman Mark Roeber, "Such a visceral reaction to a fare increase."

Passengers say their frustration is less about the fare increase than the timing of the fare increase.

The decision to bump prices up an average of 6 percent—and as high as 18 percent in some areas—comes after several recent reductions in service.

VRF stopped running trains on federal holidays.

Local news updates

- The Governor Goes Back to School (Tuesday, 09:01, WFLS News)
- House, Senate negotiators close to a deal

(Tuesday, 08:32, WFL5 News)

 Road rage incident gets driver arrested

(Tuesday, 06:48, WFLS News)

- Orange report cites rescue delays (Tuesday, 01:10, The Free Lance-Star)
- Faster cleanup for Bay? (Tuesday, 01:09, The Free Lance-Star)
- Graduation week mixes celebration with uncertainty

(Tuesday, 01:08, The Free Lance-Star)

- Stafford man stabbed in altercation (Monday, 16:58, fredericksburg.com)
- Read all of today's stories from The Free Lance-Star newspaper.
- View the latest local news updates from the WFLS News team.
- Search the news story Archives of The Free Lance-Star (through 3/2001).

News from the Associated Press

- Pentagon Examined Iraq Detention Centers
- Doctor: Iraqis Treated Hostage's Wound
- Interest Rates Not Expected to Change
- Gaza Missile Strike Kills 2 Palestinians
- Bush Bus Tour to Hit Four Ohio Stops
- AP: U.S. Set for Long Haul in Afghanistan
- Donald Trump Publishes Life Advice Book
- Airline Passenger Finds Frog in Her Salad
- · Stock Futures Are Barely Changed
- Pistons Clamp Down on Nets to Win Game 1.

If you with frederi click ti to cha our sta



All T Oil Ch Schec Maint \$200

Only Include Chang

Bare Seaf And VRE passengers stopped getting free bus rides from the Crystal City and Alexandria stations.

VRE trains are crowded, and one out of every 10 runs is late.

And starting June 28, when the fares climb for the second year in a row, access to Amtrak trains will be limited.

"People are very disgruntled," said Fredericksburg resident Elizabeth Treadwell. "The service doesn't improve. In fact, they keep diminishing the service. It just doesn't wash."

VRE officials say they know riders are frustrated, but increases in operating expenses forced the agency to cut costs and increase prices.

When ridership was growing 18 percent a year, the added fares covered rising expenses, VRE officials say. Now that ridership grows at a much slower rate--mostly because there isn't much room for new passengers--operating costs are outpacing fare revenues.

"To think that we sat around and thought, 'How can we make people's lives bad?' is ridiculous. We didn't want to cut out service and raise prices," Roeber said. "We looked at the numbers—what's it going to cost to run next year—and realized we're \$1 million short.

"We looked here, and they said, 'No.' We looked to the General Assembly, and they said, 'No.' We looked to the feds, and they said, 'No.' What options did we have left?"

More for less

Last year, when VRE rates rose 4 percent, only nine riders showed up to public hearings to protest the increase.

Though ridership was increasing, seats were still plentiful and springtime trains were on schedule 92 percent of the time.

This year—when some trains offer standing-room only--10 times that amount attended the hearings. And more than 1,000 riders sent comments to VRE.

Development south of Washington has pushed ridership to 15,000 a day. And older equipment on the trains and tracks means more delays.

"The E in Express has fallen by the wayside," Fredericksburg resident Mike McVeigh said at a March 24 hearing in the city. "If you're going to charge more, find a way to reduce my commute time."

Commuters say VRE's fare increase is really just the latest in a string of decisions that have chipped away at service.

In January, VRF decided to stop running trains on several federal

Virginia news from the AP

- House, Senate negotiators unable to close a deal
- Long before accusations, Pentagon was looking suspected abuse
- Community questions DNA testing of black men in search for rapist
- Moran introduces bill to ban highpowered rifles

Offbeat news from the AP

- Airline Passenger Finds Frog In Her Salad
- Barge Capsizes Approaching Nude Beach
- Policewoman Wins Tussle Over Dyed Hair
- Deer Crashes Through Iowa Party HQ Window

\$2.00 Of Ra (Any

Qual Auto FREE Comp Repai Lst A

Apply

Some



holidays, leaving some nongovernmental workers looking for alternative ways to the office.

In February, the agency stopped subsidizing bus rides for VRE passengers who transferred to buses in Alexandria and Crystal City.

The outcry over those cuts wasn't overwhelming. The number of riders using the DASH and ART buses is minimal. And government workers, who usually don't need the train on federal holidays, outnumber their private-industry counterparts 2-to-1 on the VRE.

But riders frustrated over the more recent changes at VRE say those early decisions are part of a pattern of less service for more money.

Commuters complain that the trains are too often late, either because of mechanical problems or slower-moving freight trains that get in the way.

In reality, trains were late only slightly more often in 2003 than they were in 2002. This year, they're running on time about 90 percent of the time.

But crowded conditions likely make the rides seem longer, Rodber said.

Those boarding at Crystal City in the evenings say it's not unusual to stand for a half hour until the train clears out enough for them to grab a seat.

"Going home is ridiculous," said one of those riders, Army Ma), Ernest Parker of Spotsylvania, "Normally, unless you're one of the first guys in line, you're going to be standing."

To avoid the crowds, commuters sometimes ride Amtrak trains, something they can do at no extra cost if they hold a monthly pass or 10-trip ticket from VRE. That deal is also good on weekend Amtrak trains.

But in June, VRE pass-holders will need to buy a \$1 "step-up" ticket to ride the Amtrak trains. And VRE passes are no longer good on weekend Amtrak trains.

Treadwell, who sometimes works on Saturdays at the Library of Congress, said she hasn't decided how she'll get to work those days.

"This tyranny of the bottom line is not serving the ridership," she said.

'Late is late'

VRE officials say many of the problems with the service are out of their hands. Delays caused by freight trains or malfunctioning signals are controlled by track-owner CSX,

"I think many of the people who express these concerns are frustrated with things we can't control," said John Jenkins, chairman of the VRE operations board and a Prince William County supervisor. "We are victims of not being able to own the rail we operate on."

But that explanation hasn't impressed commuters.

Fredericksburg resident John Conner said he understands that VRE doesn't run the ralls, but he gets tired of missing meetings in the morning or home-cooked meals with his family in the evening.

"The riders don't really care whose fault it is," he said. "Late is late."

Pete Sklannik, VRE's former chief operating officer, was known for firing off scathing letters to CSX officials every time the track company delayed VRE trains. Passengers say they miss having a feisty advocate. Sklannik resigned in October after what he terms "an employment dispute" with the VRE board.

"If they are advocating for us with CSX, they are not letting us know they're doing it," Conner said. "A lot of riders are kind of hoping when they get a new director, they'll take a firmer stand with CSX."

Both Roeber and Jenkins say VRE officials have been firm with CSX without publicly chastising them. As a result, they say, projects that once couldn't get CSX cooperation are moving forward.

Shortly after Sklannik left, CSX signed off on the long-awaited Quantico bridge project, which will add an extra track and rid the Fredericksburg line of arguably its worst bottleneck.

"I think we're making a lot more progress. There was a lot of bashing going on that did not produce the long-range results we were looking for," Jenkins said. "A more reasoned approach is being pursued."

Sklannik, now the chief operating officer of the Trinity Railway Express in Texas, said he stands by his approach.

"If I don't mouth off for the customer, who will? In this business, you have to be a pain in the ass," he said. "When you start accepting that you're going to have delays almost every day, that is the beginning of the end of having customer satisfaction."

Grin and bear it

The increased fares and some other changes in service are expected to generate about \$1 million in extra revenue for VRE next year.

Riders using 10-trip passes—about 60 percent of VRE's customers—will see the steepest price increases. So will

passengers who board at the outlying stations in Fredericksburg and Stafford.

For instance, a 10-trip ticket for a commuter who travels from Fredericksburg to Union Station is increasing by \$11.30, or 18 percent. A 10-trip ticket for someone going from Alexandria to Union Station will go up \$5.55, or 15 percent.

Monthly tickets are increasing at a much slower rate to reward those who ride every day, Roeber said. And those who ride the farthest are expected to pay the largest share.

"Remember, that engine is chewing up diesel fuel every mile," said Jenkins. "Big-time diesel fuel. And diesel fuel is expensive."

VRE has touted its new five-day pass, but riders don't seem happy with it. It's heavily discounted but must be used five consecutive days, making it useless for those with flexible schedules.

And those who routinely work five days a week get a better deal with the monthly pass, unless they're going on a long vacation.

Bill McGrath of Spotsylvania said the price increases and lack of seats have convinced him to find another way to Washington.

"I'm going to try the slug line," said McGrath, an employee at the Federal Aviation Administration. "I may keep a 10-trip in my pocket for emergencies, but I'm not going back to the train."

Most riders say they'll grin and bear the changes,

"If you've gotta pay, you've gotta pay," said Stafford resident Liz Montalvo, who likes the convenience of the trains.

McVeigh said the late trains bother him, but it's still cheaper to take VRE than to drive in and look for parking.

"On the whole, it only ever seems to be late when my wife cooks a nice dinner," he said.

In the end, said Conner, passengers will feel a lot better about it all if VRE service improves.

"We're kind of joking now, saying, 'Well, in June they're going to be on time and everybody will have a seat,' because we know when you pay more, it's going to get better," Conner said. "But it's all in jest."

To reach EDIE GROSS: 540/374-5428 egross@freelancestar.com

Date published: 5/2/2004

- . Start a discussion in FredTalk on this story.
- · Get a printer-friendly version of this page
- . Tell a friend about this story

25 Millionth VRE Passenger

At a ceremony to be attended by Governor Warner, VRE will honor its 25 millionth passenger at King Street Station beginning at 10:30 A.M. on June 3rd. Details of the ceremony will be provided.



You are cordially invited to attend

VRE's 25 Millionth Rider Celebration

At the Alexandria VRE Station

Thursday, June 3, 2004 10:30 am — 12 noon

Starbio ks beverages and light refreshments will be served.

RSVP to 703-838-5416 703-838-5434 mtocher@vtc.org

RESOLUTION #1019

SUBJECT: Prince William County Parking Improvements.

WHEREAS: VRE received funding from the Governor's Congestion Relief

Program to complete parking expansion projects and access

improvements in Manassas and Broad Run; and

WHEREAS: Prince William County has the ability to complete three of these

initiatives with its own forces.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Chief Executive Officer to enter into an agreement between VRE and Prince William County, following approval from VRE legal counsel, for parking improvements in an amount not to exceed \$397,150, plus a 15%

contingency of \$59,572, for a total of \$456,722.

Approved this 3rd day of June, 20

William Euille	
Chairman	

Gerry Connolly Secretary-Treasurer

Prince William County Parking Improvements

The VRE Operations Board recommends approval of Resolution #1019. This resolution authorizes VRE's CEO to enter into an agreement with Prince William County for parking improvements at Manassas and Broad Run in an amount not to exceed \$456,722, including a 15 percent contingency. Funding is provided from the Governor's Congestion Relief Program.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site: http://www.vre.org • E-Mail: gotrains@vre.org

AGENDA ITEM 8-A CONSENT AGENDA ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION TO ENTER INTO AN AGREEMENT WITH

PRINCE WILLIAM COUNTY FOR PARKING IMPROVEMENTS

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to enter into an agreement between VRE and Prince William County, following approval from VRE legal counsel, for parking improvements in an amount not to exceed \$397,150, plus a 15% contingency of \$59,572, for a total of \$456,722.

BACKGROUND:

VRE was awarded funding this past year through the Governor's Congestion Relief Program to complete parking expansion projects and access improvements in Manassas and Broad Run. Three of the initiatives are located at the Broad Run VRE station or adjacent to Prince William County property and are subsequently proposed to be completed by Prince William County forces. These initiatives include the following:

- Removal of a barn adjacent to the Broad Run parking and yard facility
- Construction of a parking facility in place of the barn (approximately 120 spaces)
- Construction of a temporary parking facility on Manassas Regional Airport Authority property adjacent to the existing platform (approximately 98 spaces)

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairlax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Potomac and Rappaharinock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782 Design of the barn parking lot is underway and design of the airport parking lot has been completed. Lease of the airport parking lot property is included as part of a separate VRE Operations Board item. Execution of this MOU will allow the County to initiate construction. A schedule will be developed in conjunction with the County prior to execution.

FISCAL IMPACT:

Funds for these initiatives are included in VRE's Capital Improvement Program (CIP) as part of the projects included in the Governor's Congestion Relief Program. No local match is required.

Manassas Airport Authority Parking Improvements

The VRE Operations Board recommends approval of Resolution #1020. This resolution authorizes VRE's CEO to execute an agreement with the Manassas Regional Airport for a property lease for expanded parking at an annual cost not to exceed \$78,408. The term is up to five years. Funding is from the Governor's Congestion Relief Program.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site: http://www.vre.org • E-Mail: gotrains@vre.org

AGENDA ITEM 8-B CONSENT AGENDA ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION TO ENTER INTO A LEASE AGREEMENT WITH THE

MANASSAS REGIONAL AIRPORT AUTHORITY FOR PARKING

IMPROVEMENTS

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to enter into an agreement between VRE and the Manassas Regional Airport Authority, following approval from VRE legal counsel, for a property lease in an amount not to exceed \$78,408 over a period of five-years.

BACKGROUND:

VRE was awarded funding this past year through the Governor's Congestion Relief Program to complete parking expansion projects and access improvements in Manassas and Broad Run. As part of this project, property was identified adjacent to the Broad Run VRE station that is currently owned by the Manassas Regional Airport Authority. The Airport has proposed a lease for 40 cents per square foot, per year for a total cost of \$78,408. The lease term will be for up to five years. This price is based on a constant lease price offered by the Airport for unused property and is consistent with the property appraisal commissioned by VRE. Sale or a lease beyond five years was unavailable due to FAA procedures regarding disposal of property.

A temporary lot holding approximately 98 spaces is planned for this property. The Prince William County Public Works department is being authorized to construct this lot as part of a separate VRE Operations Board item.

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairfax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782

FISCAL IMPACT:

Funds for the project are included in VRE's Capital Improvement Program (CIP) as part of the projects included in the Governor's Congestion Relief Program. No local match is required.

RESOLUTION #1020

SUBJECT: Manassas Airport Authority Parking Improvements.

WHEREAS: VRE received funding from the Governor's Congestion Relief Program to complete parking expansion projects and access

improvements in Manassas and Broad Run;

WHEREAS: Property adjacent to the Broad Run VRE station owned by the

Manassas Regional Airport has been identified for the construction of a temporary parking facility holding approximately 98 parking

spaces; and

WHEREAS: The Manassas Regional Airport is willing to lease this property for

the construction of the parking lot.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Chief Executive Officer to enter into a property lease between VRE and the Manassas Regional Airport, following approval from VRE legal counsel, in an amount not to exceed \$78,408 annually, with a term of up to five years.

Approved this 3rd day of June, 2004.

	William Euille Chairman	
Gerry Connolly		
Secretary-Treasurer		

Lease of Warehouse for Spare Parts at Manassas Airport

The VRE Operations Board recommends approval of Resolution #1021. This resolution authorizes VRE's CEO to execute a five-year lease agreement with KAO Manassas Airpark LLC for warehouse space near the Broad Run VRE yard. The total cost of the lease over five years is \$295,586.14 plus a 10 percent contingency. It will allow VRE's Gallery railcar spare parts to continue to be stored there when the facility used currently is demolished to make room for expanded VRE parking.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site: http://www.vre.org • E-Mail: gotrains@vre.org

AGENDA ITEM 9-J ACTION ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION TO AWARD A CONTRACT TO KAO MANASSAS

AIRPARK, LLC FOR LEASE TO WAREHOUSE VRE SPARE PARTS

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to execute a contract with KAO Manassas Airpark, LLC for warehouse space near the Broad Run yard.

The contract has a three-year term with a three percent escalator per year. The first year of the contract will not exceed \$56,675. Total value of the three-year contract is \$172,086. This contract is for rental of the site only and does not include costs for insurance, utilities, improvements, and management.

BACKGROUND:

As VRE's fleet maintenance shifts from the central location at Ivy City to the VRE yards, the need for parts and material storage at those outlaying yards becomes more important. Much of this is predicated on Amtrak's recent decision to not participate in the maintenance of any portion of VRE's Gallery fleet. As a result, these railcars will have to be maintained in VRE's yards.

Currently, the majority of VRE's Gallery spare parts are stored in containers at the Broad Run yard. However, this is becoming less of an option with the continued demand for parking at the Broad Run station. VRE, in conjunction with Prince William County, plans to demolish the barn adjacent to the storage containers so that a parking lot can be constructed. It will require the removal of these storage containers.

- A Transportation Partnership -

Northern Virginia
Transportation Commission
4350 North Fairfax Drive, Suite 720
Artington, Virginia 22203
(703) 524-3322

Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782 Since relocation of the spare parts is inevitable, VRE conducted thorough assessments of warehouse rental prices throughout Prince William County and the City of Manassas to determine a "fair market value". The aggregate range for warehouse space on a per square foot rate ran from \$9 to \$14.50. Another factor in the decision process was accessibility of those parts to the Broad Run yard. It will be imperative that VRE be able to retrieve any and all parts quickly to make repairs to the units as necessary.

With these two factors as the criteria for consideration, VRE located a suitable site within a quarter-mile of the yard. Subsequent negotiations allowed VRE to bring the per square foot price in at the low figure of \$9 per square foot, well below average market price.

The warehouse has 6,550 square feet of usable space, including two offices. A warehouse this size will allow VRE to move its entire Gallery spare parts inventory out to the yards, as well as increase the parts inventory for other VRE railcars and locomotives at this central location.

VRE will have to make some improvements to this facility to maximize the storage of all parts; however, until a lease has been signed we will not be able to assess the space to determine what improvements are necessary, such as shelves and so forth. This information will be brought back to the Operations Board at its next meeting.

Moreover, staff is recommending this lease option as an acceptable solution rather than acquisition of an off-site building based upon defined needs addressed in the VRE Phase 2 Strategic Plan that call for the construction of a permanent structure at the yard(s) by 2010. Thus, this termed lease satisfies the immediate need of VRE to consolidate Gallery and other railcar spare parts at a central location for use by VRE until such time that a permanent structure can be built at VRE yard(s).

FISCAL IMPACT:

Funding will be drawn from the FY 2004 – 2007 Operating Budgets over the period of the three-year lease.

RESOLUTION #1021

SUBJECT: Lease of Warehouse for Spare Parts at Manassas Airport.

WHEREAS: Amtrak prefers to not maintain VRE's Gallery car fleet;

WHEREAS: VRE requires a large inventory of Gallery car spare parts;

WHEREAS: VRE staff has located a warehouse near the Broad Run facility that

is able to store the entire parts inventory as well as other materials

needed to support the Gallery car fleet; and

WHEREAS: There is no other space at the outlying yards to store this material.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Chief Executive Officer to enter into a lease agreement, subject to review by VRE legal counsel, with KAO Manassas Airport, LLC for a warehouse near the Broad Run facility at a five-year lease cost not to exceed \$295,586.14 plus a 10% contingency of \$29,560 for a total expenditure authorization of \$325,146.14, plus utilities and insurance.

Approved this 3rd day of June, 2004.

	William Euille Chairman
Gerry Connolly Secretary-Treasurer	

Construction Contract for Quantico Creek Bridge

The VRE Operations Board recommends approval of Resolution #1022. This resolution authorizes the competitive award of a construction contract for the bridge to Abernathy Construction Corporation of Glen Allen, Virginia, in the amount of \$16,892,541, including a 10 percent contingency. Five bids were received ranging up to \$20.5 million. State and federal grant funds are available with no local funds being spent.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site: http://www.vre.org • E-Mail: gotrains@vre.org

AGENDA ITEM 9-B ACTION ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT

FOR THE QUANTICO CREEK BRIDGE PROJECT

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to award a construction contract for the Quantico Creek Bridge Project to Abernathy Construction Corporation in the amount of \$15,356,856, plus a 10% contingency of \$1,535,685, for a total of \$16,892,541.

BACKGROUND:

As required in the MOU with CSX Transportation, and in order to alleviate the railroad bottleneck at Quantico Creek, a new mainline track bridge over Quantico Creek must be constructed. In January 2004, the Virginia Railway Express, in collaboration with CSXT and VDRPT, completed the design for a new double mainline track bridge over Quantico Creek. Although the new bridge will be able to accommodate two mainline tracks, only one track will be constructed as part of this project scope. Once this project is completed, two mainline tracks will cross Quantico Creek, including the existing single mainline track bridge.

Due to the multifaceted nature of the Quantico Creek Bridge project, it should be noted that the following Operations Board Action Items are forthcoming in the next several months:

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairlax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782

- Authorization to award a contract for construction support services to assist VRE staff in the overall management of the Quantico Bridge project
- Authorization to execute an agreement with CSX Transportation for force account services for the Quantico Bridge project
- Authorization to solicit bids and award a contract for wetland mitigation resulting from impacts caused by construction of the Quantico Bridge project

At the January 16, 2004, Operations Board meeting, authorization to solicit construction bids was granted. Following the competitive procurement process, bids were received and opened on April 30, 2004. Five bids were received from contractors in amounts ranging from \$15.36 million to \$20.47 million. After reviewing the bids, staff is recommending award to the lowest responsive and responsible bidder – Abernathy Construction Corporation of Glen Allen, Virginia. Authorization is being sought in the amount of \$15,356,856, plus a 10% contingency of \$1,535,685, for total of \$16,892,541. Construction is scheduled to begin in July 2004 and be completed in 2006.

FISCAL IMPACT:

Funds for the construction phase of this project are included in VRE's Capital Improvement Program (CIP) as part of the Quantico Bridge project. Funding is made up of FY 2001, 2002 and 2003 federal and state grants. Local match is being provided by the Virginia Department of Rail and Public Transportation.

SUBJECT: Construction Contract for Quantico Creek Bridge.

WHEREAS: Per the MOU with CSXT and in order to alleviate the railroad

bottleneck at Quantico Creek, a new mainline track bridge over

Quantico Creek must be constructed;

WHEREAS: Virginia Railway Express in collaboration with CSXT and VDRPT,

has completed the design for a new double track bridge over

Quantico Creek; and

WHEREAS: VRE conducted a competitive construction procurement with five

proposers.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Chief Executive Officer to award a construction contract for the Quantico Creek Bridge Project to Abernathy Construction Corporation in the amount of \$15,356,856, and to reserve a 10% contingency of \$1,535,685, for total of

\$16,892,541.

Approved	this 3rd	day of c	June,	2004.
----------	----------	----------	-------	-------

Secretary-Treasurer

	William Euille
	Chairman
Serry Connolly	

Quantico Bridge Dominion Virginia Power Agreement

VRE's Operations Board recommends approval of Resolution #1023. This resolution authorizes VRE's CEO to execute an agreement with Dominion Virginia Power for access and disposal of dredging spoils during construction of the bridge. The disposal fee for use of a pond at the Possum Point Plant is \$5 per cubic yard up to a maximum of \$315,000. Access is free. State and federal grants will cover the cost with no local funds required.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site: http://www.vre.org • E-Mail: gotrains@vre.org

AGENDA ITEM 9-C ACTION ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION TO ENTER INTO AN AGREEMENT WITH DOMINION VIRGINIA POWER TO ALLOW ACCESS AND

DISPOSAL DURING CONSTRUCTION OF THE QUANTICO

CREEK BRIDGE PROJECT

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to enter into an agreement with Dominion Virginia Power to allow access and disposal of dredging spoils during construction of the Quantico Creek Bridge Project. This agreement commits VRE to fees of no more than \$315,000 for disposal of dredging spoils.

BACKGROUND:

As required in the MOU with CSX Transportation, and in order to alleviate the railroad bottleneck at Quantico Creek, a new mainline track bridge over Quantico Creek must be constructed. Design for the bridge has been completed and a construction contract is being recommended for award as part of a separate Operations Board action item. Construction is scheduled to begin in July 2004.

As part of construction, dredging operations must be performed in order to gain access to the construction site and perform work utilizing barges. The resulting dredging spoils must be disposed of in compliance with Federal, State and Local regulatory environmental policies. The closest and most cost effective disposal

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairfax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782 location, identified during the design process, is a pond at the Possum Point Dominion Virginia Power plant. Staff negotiated a disposal fee of \$5.00 per Cubic Yard for solids to be placed in the pond for a total amount of up to \$315,000.

This agreement also includes provisions for access through the power plant, which is required to reach one of the designated construction staging areas and the railroad right-of-way. Dominion Virginia Power is providing this access at no cost to VRE.

Board action is required at this time to enter into an agreement with Dominion Virginia Power to allow for dredging disposal, access, and staging on Dominion Virginia Power's property. Legal review is currently underway and will be completed prior to execution of the agreement.

FISCAL IMPACT:

Funds for the construction phase of this project are included in VRE's Capital Improvement Program (CIP) as part of the Quantico Bridge project. Funding is made up of FY 2001, 2002 and 2003 federal and state grants. Local match is being provided by the Virginia Department of Rail and Public Transportation.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site: http://www.vre.org • E-Mail: gotrains@vre.org

AGENDA ITEM 9-C ACTION ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION TO ENTER INTO AN AGREEMENT WITH DOMINION VIRGINIA POWER TO ALLOW ACCESS AND

DISPOSAL DURING CONSTRUCTION OF THE QUANTICO

CREEK BRIDGE PROJECT

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to enter into an agreement with Dominion Virginia Power to allow access and disposal of dredging spoils during construction of the Quantico Creek Bridge Project. This agreement commits VRE to fees of no more than \$315,000 for disposal of dredging spoils.

BACKGROUND:

As required in the MOU with CSX Transportation, and in order to alleviate the railroad bottleneck at Quantico Creek, a new mainline track bridge over Quantico Creek must be constructed. Design for the bridge has been completed and a construction contract is being recommended for award as part of a separate Operations Board action item. Construction is scheduled to begin in July 2004.

As part of construction, dredging operations must be performed in order to gain access to the construction site and perform work utilizing barges. The resulting dredging spoils must be disposed of in compliance with Federal, State and Local regulatory environmental policies. The closest and most cost effective disposal

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairfax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782 location, identified during the design process, is a pond at the Possum Point Dominion Virginia Power plant. Staff negotiated a disposal fee of \$5.00 per Cubic Yard for solids to be placed in the pond for a total amount of up to \$315,000.

This agreement also includes provisions for access through the power plant, which is required to reach one of the designated construction staging areas and the railroad right-of-way. Dominion Virginia Power is providing this access at no cost to VRE.

Board action is required at this time to enter into an agreement with Dominion Virginia Power to allow for dredging disposal, access, and staging on Dominion Virginia Power's property. Legal review is currently underway and will be completed prior to execution of the agreement.

FISCAL IMPACT:

Funds for the construction phase of this project are included in VRE's Capital Improvement Program (CIP) as part of the Quantico Bridge project. Funding is made up of FY 2001, 2002 and 2003 federal and state grants. Local match is being provided by the Virginia Department of Rail and Public Transportation.

Definition of VRE Operating Ratio

VRE's Operations Board recommends approval of Resolution #1024. This resolution confirms current practice by providing a complete definition of VRE's ratio of operating revenues to operating costs. VRE's auditors asked for the commissions to approve a more complete definition of this calculation that was initially authorized in 1999. The calculation excludes track leases, other access costs and liability costs paid from the insurance trust. As a result of this required calculation, NVTC is meeting the terms of the Master Agreement by achieving a ratio at the close of FY 2003 of 61.9 percent.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site: http://www.vre.org • E-Mail.gotrains@vre.org

AGENDA ITEM 9-G ACTION ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION TO CLARIFY THE CALCULATION METHODOLOGY OF THE VRE OPERATING RATIO

RECOMMENDATION:

The VRE Operations Board recommends that the Commissions authorize the Acting Chief Operating Officer to adopt a calculation formula for computing the VRE operating ratio. The calculation of the ratio excludes track leases, associated Washington Union Terminal (WUT) access costs, and liability expenses paid from other operating expense and includes all operating revenues.

BACKGROUND:

The Master Agreement establishing VRE called for an initial cost recovery ratio of not less than 50%. Although maintaining that ratio is not mandatory, Section III (3) of the Master Agreement states that maintaining this ratio is a "shared objective". In December 1999, the VRE Operations Board adopted a formula that excluded track leases from operating expenses; however, this did not address the formula calculation as a whole. VRE's independent auditors have suggested that the Board adopt a calculation formula that specifies the elements of both revenue and expense used to derive the cost recovery ratio.

The "operating revenues", under the generally accepted accounting principles applied to VRE, include fare revenue and revenues derived from the operation of the railroad such as advertising, sale of VRE retail items, rental of equipment and similar types of income. Interest on bank accounts and investments and proceeds from the sale of equipment are not considered "operating revenues".

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairfax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782 For purposes of computing the ratio, all operating expenses included under the generally accepted accounting principles applied to VRE will be used, with the exception of the track leases and associated costs for access, which are 80% funded by the Commonwealth and the insurance expenses paid out of the Insurance Trust Fund. These are excluded due to the dedicated funding associated with these expenses. Including insurance and access expenses does not affect the level of other subsidies received by VRE and is not useful in the process of setting fares or local subsidy

Using the audited figures from the VRE financial statements for the period ending June 30, 2003, the cost recovery ratio computation would appear as follows:

	Per Financials	Used for Ratio
5	15,048,262	15,048,262
	292,086	292,086
	15,340,348	15,340,348
	13,095,504	13,095,504
	4,741,041	4,741,041
	7,307,905	
	2,429,993	
	1,482,131	1,482,131
	5,462,768	5,462,768
S	34,519,342	24,781,444
		\$ 15,048,262 292,086 15,340,348 13,095,504 4,741,041 7,307,905 2,429,993 1,482,131 5,462,768

Using the elements outlined above, the operating ratio is 61.9%.

FISCAL IMPACT:

There is no financial impact.

SUBJECT: Definition of VRE Operating Ratio.

WHEREAS: The VRE Master Agreement sets a goal for the operating ratio of

not less than 50%; and

WHEREAS: VRE's independent audit firm has recommended clarifying the

methodology for computing the operating ratio.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Chief Executive Officer to compute the VRE operating ratio to include all operating revenues and all operating expenses with the exception of track leases and other access costs, as well as liability insurance expenses paid for out of the Insurance Trust Fund.

Approved this 3rd day of June, 2004.

William Euille Chairman

Gerry Connolly Secretary-Treasurer

Additional Contract Authority for Sounder Rolling Stock

The VRE Operations Board recommends approval of Resolution #1025. This resolution increases the current authorization limit for Sounder trainset leases by \$1,662,960, above the current limit of \$4.6 million. This will allow three such trainsets to be kept here for another year until additional Gallery cars can be placed into service. State funds are available with no local funds needed.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site: http://www.vre.org • E-Mail: gotrains@vre.org

AGENDA ITEM 9-H ACTION ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION FOR ADDITIONAL SOUNDER AUTHORITY

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to increase the authorization limit by \$1,662,960 for the lease of three sets of high capacity rail cars from Sound Transit.

BACKGROUND:

VRE currently has three sets of equipment in service under a lease agreement with Sound Transit. Combined authorization approved in July, October and December of 2001, and August of 2003, total nearly \$4,600,000 toward these leases. The current authorization limit for this equipment will be reached in August. As a result, staff is recommending the continuation of the lease so that these vehicles can continue serving VRE's growing demand for train capacity.

Staff is requesting authority to retain the vehicles for an additional year, coincident with the time the last of the Gallery III cars will be put into service. While VRE may not elect to retain the vehicles for this entire period, this authorization request reflects the option of keeping all three sets for one additional year.

FISCAL IMPACT:

Funds for the project are included in VRE's Capital Improvement Program (CIP) as part of the Sounder Lease project. Funding for this project is from the VTA 2000 state grant. No local match is required.

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairfax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Polomac and Rappahannock Transportation Commission 14700 Polomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782

SUBJECT: Additional Contract Authority for Sounder Rolling Stock.

WHEREAS: VRE currently has three train sets in service under a lease

agreement with Sound Transit;

WHEREAS: Nearly \$4,600,000 has been authorized toward these leases and

the limit will be reached in August 2004; and

WHEREAS: VRE recommends increasing the authorization limit to continue the

lease of three sets of high capacity rail cars from Sound Transit.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation

Commission authorizes the VRE Chief Executive Officer to incur an additional \$1,662,960 in expenditures toward this equipment leased

from Sound Transit.

Approved this 3rd day of June, 2004.

William Euille Chairman

Gerry Connolly Secretary-Treasurer

Qualification and Repair of Gallery Railcars

The VRE Operations Board recommends approval of Resolution #1026. This resolution authorizes award of a contract for the qualification and repair of newly acquired Metra Gallery Cars. The recommended firm is Kawasaki Rail Car, Inc. and the amount of the contract is \$4,815,452, including a 15 percent contingency. No local funds are required.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site: http://www.vre.org • E-Mail: gotrains@vre.org

AGENDA ITEM 9-E ACTION ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION TO AWARD CONTRACT FOR QUALIFICATION AND

SPECIFIED REPAIR TO GALLERY RAILCARS

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to award a contract for the qualification of and specified repair to the newly acquired Metra Gallery cars in the amount of \$4,187,428, plus a 15% contingency of \$628,114, for a total of \$4,815,542.

BACKGROUND:

Recently, VRE acquired 35 Pullman-Standard Gallery cars from Chicago's Metra. Thirty railcars will be placed into service with the remaining five serving as ready-reserve cars. While these cars were rebuilt between 1996 and 2001, work to some of the cars is required before they enter into VRE service. This contract will facilitate the qualification of and repair to 20 of the cars with optional additional work to the ten cars already in service.

A Request for Proposals was issued on March 19, 2004, and proposals were due May 12, 2004. Two proposals were received by VRE. On May 18 and May 19, 2004, a selection committee ranked the proposals based upon the selection criteria and is recommending award to Kawasaki Rail Car, Inc. of Yonkers, New York.

Under the proposal, VRE would immediately award the contract after approval by the Commissions. Once completed, shipment of the railcars to the vendor could begin. This process could take upwards of 30 days for all railcars to make their way onto the contractor's property. Once Kawasaki Rail Car, Inc. is in receipt of the railcars work will

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairfax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782 begin with the project duration lasting approximately one year from the actual initiation date, which could be late June to mid July.

FISCAL IMPACT:

Funds for the project are included in VRE's Capital Improvement Program (CIP) as part of the Gallery III project. Funding for this project is made up of FY 2003 federal grants and the VTA 2000 state grant, where no local match is required.

SUBJECT: Qualification and Repair of Gallery Railcars.

WHEREAS: VRE recently acquired 35 used Gallery railcars from Chicago's Metra with the intent of placing 30 of these cars into daily revenue

service;

WHEREAS: Twenty of these railcars require repair work and may require additional optional work;

WHEREAS: The 10 railcars already placed into service may also require additional optional repair work;

WHEREAS: A Request for Proposals was issued on March 19, 2004, to solicit competitive proposals for the qualification and specified repair work; and,

WHEREAS: Responses for this project were due on May 12, 2004; and

WHEREAS: Based on the RFP evaluation criteria, the selection committee recommends award of the contract to Kawasaki Rail Car, Inc. of Yonkers, New York.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Chief Executive Officer to award a contract for the qualification and repair of the newly acquired Metra Gallery cars in the amount of \$4,187,428, plus a 15% contingency of \$628,114, for total of \$4,815,542 to Kawasaki Rail Car, Inc.

Approved this 3rd day of June, 2004.

	William Euille Chairman
Gerry Connolly Secretary-Treasurer	

Phase 2 VRE Strategic Plan

VRE's Operations Board recommends approval of Resolution #1027. This resolution approves the latest VRE strategic plan document, which projects ridership through 2025 (ranging from 21 to 40,000 each weekday); estimates costs of potential expansion (e.g. Gainesville \$55 to \$70 million); and compiles VRE capital needs for rolling stock, parking, mid-day storage and station improvements, among others (e.g. \$40 to \$70 million annually 2005-9, \$34 to \$98 million annually 2010-15 and \$19 to \$35 million annually 2015-25).

The plan provides a long term vision for VRE assuming that there will be significant increases in funding from all of VRE's partners. The plan does not provide clear guidance regarding how to prioritize projects to reach reasonable ridership goals within the constraints of foreseeable financial resources. Accordingly, the resolution directs staff to start immediately in the FY 2006 budget process to identify such priorities using this document as a resource.

SUBJECT: VRE Strategic Plan

WHEREAS: In May 2002, the VRE Operations Board authorized VRE to provide a comprehensive plan for VRE service within a long-term strategic

needs assessment;

WHEREAS: This process has been performed by Parsons, Brinckerhoff, Quade and Douglas (PBQ&D) in conjunction with jurisdictions, commissions, and VRE staff to provide comprehensive capital needs and cost estimates for various VRE levels of service through 2025:

WHEREAS: The scope of work for the Phase 2 Strategic Plan also asked for findings on rider origins and destinations to evaluate VRE mode share;

WHEREAS: The scope of work also asked for the consultants to develop travel demand models, identify mid-day storage requirements and alternative site evaluations, provide a detailed system parking study, and provide a detailed planning study on the possible extension of VRE service to Bealeton, Gainesville-Haymarket and Spotsylvania;

WHEREAS: The VRE Operations Board has held two planning sessions with VRE/Commissions/jurisdictional staff and PBQ&D to review preliminary findings and identify areas of concern for follow up;

WHEREAS: Many such revisions have been incorporated and reviewed by jurisdictional staff; and

WHEREAS: The plan provides a vision for future decision making by identifying a range of capital investment options within a number of alternative operating scenarios which support a ridership goal up to 40,000 daily trips by 2025.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission approves the VRE Phase 2 Long-Term Strategic Plan document as a vision for VRE and directs that VRE staff start immediately within the FY 2006 budget process to use this plan as a resource for developing priorities for implementation and financing of VRE's CIP and related needs within the constraints of funding reasonably expected to be available.

Approved this 3rd day of June, 2004.		
	William Euille Chairman	
Gerry Connolly Secretary-Treasurer		

SUBJECT: Contract Amendment for Overhaul of Additional Head-End Power

Units.

WHEREAS: A contract currently exists to rebuild all but three of VRE's HEP

units;

WHEREAS: The last three HEP's are showing signs of premature failure;

WHEREAS: The current contractor has demonstrated a high degree of reliability

and professionalism; and

WHEREAS: VRE needs to keep all of its locomotives in serviceable condition,

especially the higher horsepower ones that contain the last three

HEP units.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Chief Executive Officer to amend

the existing contract with Transportation Technology, Inc. to include the overhaul of an additional three HEP units and to increase the authorization on this contract by \$166,298 to cover the cost of this

additional work, making the new contract total \$885,329.

Α	pproved	l this 3r	d day c	of June	, 2004.
---	---------	-----------	---------	---------	---------

Secretary-Treasurer

	William Euille
	Chairman
Gerry Connolly	

Contract Amendment for Overhaul of Additional Head-End Power Units

The VRE Operations Board recommends approval of Resolution #1028. This resolution amends the existing contract with Transportation Technology, Inc to provide for the overhaul of three additional HEP units and increase funding by \$166, 298 to a total of \$885,329. Legal counsel has approved the contract amendment providing for this order.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site; http://www.vre.org • E-Mail; gotrains@vre.org

AGENDA ITEM 9-F ACTION ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION TO AMEND THE CONTRACT WITH

TRANSPORTATION TECHNOLOGY, INC. (TTI) FOR THE ADDITION OF THREE HEP UNITS AND INCREASE SPENDING AUTHORITY

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to amend the existing contract with Transportation Technology, Inc. (TTI) for the overhaul of three additional HEP units and increase the contract by \$166,298, for a contract total value of \$885,329.

BACKGROUND:

On October 17, 2003, the Operations Board authorized a contract with TTI for the rehabilitation of ten HEP units on VRE's GP-39 locomotives. As with the earlier 10 HEP's, this rebuild is a much less expensive option than to purchase new HEP's or locomotives. Work is currently underway and expected to be completed this fall.

VRE's GP-40 units are now showing signs of failure associated with and reflective of the age of these HEPs. Due to critical service issues, VRE staff is recommending a change order to the existing contract with TTI to incorporate three GP-40 units. Based on the limited scope of this change order, legal counsel has approved this contract amendment.

FISCAL IMPACT:

Funding for this project is available in VRE's Capital Improvement Program (CIP) as

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairfax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782 part of the locomotive overhaul project. Funding for this project is from FY 2001 and FY 2002 federal grants. The local match is previded for using state and local funds.

SUBJECT: Contract Amendment for Overhaul of Additional Head-End Power

Units.

WHEREAS: A contract currently exists to rebuild all but three of VRE's HEP

units;

WHEREAS: The last three HEP's are showing signs of premature failure;

WHEREAS: The current contractor has demonstrated a high degree of reliability

and professionalism; and

WHEREAS: VRE needs to keep all of its locomotives in serviceable condition,

especially the higher horsepower ones that contain the last three

HEP units.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Chief Executive Officer to amend

the existing contract with Transportation Technology, Inc. to include the overhaul of an additional three HEP units and to increase the authorization on this contract by \$166,298 to cover the cost of this

additional work, making the new contract total \$885,329.

Α	pproved	l this 3r	d day c	of June	, 2004.
---	---------	-----------	---------	---------	---------

Secretary-Treasurer

	William Euille
	Chairman
Gerry Connolly	

Contract for Marketing, Advertising and Public Relations

The VRE Operations Board recommends approval of Resolution #1029. This resolution approves a competitive contract with Williams Whittle Associates of Alexandria. The term is three years with options for two additional two-year extensions which is the same structure as the previous contract. The first year cost will not exceed \$450,000. Three firms submitted proposals, including the incumbent (LM&O).



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313

Web Site: http://www.vre.org • E-Mail: gotrains@vre.org

AGENDA ITEM 9-I ACTION ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

RE:

AUTHORIZATION TO AWARD A CONTRACT TO WILLIAMS WHITTLE

ASSOCIATES FOR MARKETING, ADVERTISING AND PUBLIC

RELATIONS SERVICES

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to execute a contract with Williams Whittle Associates of Alexandria, Virginia for professional Marketing, Advertising and Public Relations services.

The contract has a three-year term commencing July 1, 2004, to June 30, 2007, with the option of two, two-year contract renewals as quoted in RFP # 04-010. The first year of the contract shall not exceed \$450,000.

BACKGROUND:

VRE advertised and received three responsive proposals for informational/promotional graphics, marketing and public relations services as specified in VRE RFP # 04-010. Staff has reviewed the proposals, queried references, and interviewed and rated all three firms on both oral and written presentations.

LM&O Advertising (incumbent), Williams Whittle Associates, and Pulsar Advertising made presentations for purposes of evaluation.

Now that the trains are at capacity and parking is at a premium at most VRE stations, VRE's requirements from an advertising agency must be adjusted. Although we have been very satisfied with the work that has been produced thus far, we now require an

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairfax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782 agency that can adapt and assist us with the present challenges. New revenue sources and partnerships need to be identified, targeted and tapped, and riders need to be made to feel more secure in a world that has changed drastically from that of seven years ago.

VRE stipulated under this new contract that the agency would be responsible for identifying new sources of non-fare revenue through promotional opportunities, as well as to broaden the scope of support for public relations. Williams Whittle Associates best demonstrated the broad scope of expertise as called for in this contract.

Based upon the oral and written presentation, VRE staff recommends that Williams Whittle Associates be awarded the contract. The contract has a three-year term commencing July 1, 2004, to June 30, 2007, with the option of two, two-year contract renewals as quoted in RFP # 04-010. The first year of the contract shall not exceed \$450,000.

FISCAL IMPACT:

Funds are available within the FY 2005 operating budget.

SUBJECT: Contract for Marketing, Advertising and Public Relations.

WHEREAS: VRE issued a request for proposals and received three responsive proposals for informational/promotional graphics, marketing and public relations services under RFP #04-010;

WHEREAS: VRE staff has conducted intensive interviews, rated and reviewed both oral and written presentations from all three submitters, and has queried references for all;

WHEREAS: The term of the incumbent agency (LM&O) will expire on June 30, 2004; and

WHEREAS: First-year funding is provided in the FY 2005 operating budget.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Chief Executive Officer to execute a contract following review by legal counsel with Williams Whittle Associates of Alexandria, Virginia for professional marketing, advertising and public relations services.

BE IT FURTHER RESOLVED THAT the contract has a three-year term commencing July 1, 2004, to June 20, 2007, with the option of two, two-year contract renewals, with the cost of the first year of the contract not to exceed \$450,000.

Approved this 3rd day of June, 2004.		
	William Euille Chairman	
Gerry Connolly		

Secretary-Treasurer

VRE's 2003 Annual Report

Commissioners will receive copies at the meeting of the attractive annual report, designed in a playbill format.

VRE Fraud Policy

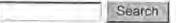
In response to concerns expressed by VRE's auditors, VRE's Operations Board has recommended a new policy for VRE that will become part of PRTC's personnel policies (VRE employees are PRTC employees). In acting on the Operations Board's recommendation, PRTC is expected to make its approval contingent on any concerns that NVTC may have. Accordingly, the proposed policy is attached. Without objection from NVTC, it is expected that PRTC will approve the recommended policy as presented.

Commuter Weekly Feature on NVTC

Attached is a copy of an extensive feature on NVTC for VRE's riders.



Service Information



Meet NVTC

Commuter Weekly, May 18, 2004

Service Information

Special Programs

About the VRE

Just for Fun

Feedback

Safety and Security

Regular readers of Commuter Weekly will surely recognize the name "Northern Virginia Transportation Commission (NVTC)." As a co-owner of VRE (Potomac & Rappahannock Transportation Commission (PRTC) is the other), NVTC has been in VRE's news a lot lately, particularly as VRE seeks additional funding for more equipment and examines the fare structure to better meet budgetary realities: As co-owners, things like railcar acquisitions must first be approved by NVTC and PRTC boards.

VRE is in fact a joint project of the two commissions. Each commission appoints several of its members to serve on the VRE Operations Board. The commissions delegate many important responsibilities to the VRE Board (such as spending decisions of \$200,000 or less) but reserve major decisions for themselves (e.g. approving annual budgets, issuing bonds, setting fare policy)

Since VRE serves both jurisdictions, NVTC and PRTC cooperate fully with VRE staff and share some important administrative functions. For example, NVTC helps VRE manage state financial assistance (which in FY 2004 amounts to about \$10 million). PRTC focuses on federal grants (about \$22 million). Together, local jurisdictions that are part of NVTC and PRTC contribute over \$6.4 million annually to support VRE. An important difference is that PRTC jurisdictions use the proceeds of a two percent motor fuels tax to defray their VRE costs, while NVTC jurisdictions supporting VRE (Arlington and Fairfax counties and the city of Alexandria) must use general funds, since their two percent gas tax is pledged to support Metrorail and Metrobus.

Okay, so NVTC is a VRE owner, and their board approves VRE's big decisions. But beyond that, who are they and what do they do? Basically, NVTC was established to manage and control the functions, affairs and property of the Northern Virginia Transportation District—which was created by the 1964 Acts of Assembly of the Commonwealth of Virginia. The commission now includes six local jurisdictions covering 1,000 square miles with a population of 1.5 million. The purpose of the commission is to facilitate "planning and developing a transportation system for Northern Virginia for the safety, comfort and convenience of its citizens and for the economical utilization of public funds." NVTC's motto. Think outside the carl

Nineteen dedicated commissioners govern NVTC: 13 are locally elected officials from its six member jurisdictions [ArlIngton (3), Fairfax (5) and Loudoun (1) counties, and the cities of Alexandria (2), Fairfax (1) and Falls Church (1)] Five of the 19 commissioners are appointed from the General Assembly (2 senators and 3 delegates). The other commissioner, currently the director of the Virginia Department of Rail and Public Transportation (VDRPT), represents the Virginia Secretary of Transportation, Beginning in July, 2004 an additional General Assembly delegate will be appointed. Bill Euille, the mayor of Alexandria, is NVTC's current chairman.

NVTC is a strong advocate of adequate, stable and reliable funding to finance public transit and also supports improved efficiency of the region's transportation system. NVTC provides a policy forum for its region and allocates about \$100 million in state, regional and federal transit assistance each year among its member jurisdictions. For example, NVTC has issued and refinanced bonds for VRE, with \$76 million currently outstanding.

NVTC's budget is funded primarily by the commonwealth of Virginia and by local governments. NVTC also appoints Virginia's two principal and two alternate members to the Board of Directors of the Washington Metropolitan Area Transit Authority (WMATA or Metro). As a co-owner of VRE, it also appoints three voting members and an alternate to VRE's Operations Board Currently those voting representatives are Sharon Bulova (Braddock District), Dana Kauffman (Lee District) and Elaine McConnell (Springfield District), all members of the Fairfax County Board of Supervisors. Chris Zimmerman (Arlington County Board) is the alternate.

NVTC has played an integral role in the development of the transit systems that serve Northern Virginia today. Just take a look...

- 1964. General Assembly of Virginia creates the Northern Virginia Transportation District. Begins to study commuter rail options.
- 1966 Interstate compact forms the Washington Metropolitan Area Transit Authority (WMATA)
- 1969 NVTC's \$6 million Shirley highway bus project gets its start with 90 new buses on an exclusive bus-way.
- 1974 Five General Assembly members are added to NVTC, which then goes on record to support Metrorail extension to Dulles.
- 1975: Federal transit operating assistance becomes available to supplement local and state resources and NVTC secures \$4 million.
- 1976. Metrorall opens for business.
- 1980 The General Assembly provides a two percent motor fuels tax within NVTC's district for Metrorail operating funds.
- 1984: NVTC seriously pursues commuter rail service in the I-95 corridor (Fredericksburg) and the I-66 corridor (Manassas).
- 1990. Loudoun County joins NVTC
- . 1992: VRE begins service.
- 1994 NVTC completes a study documenting a 19.2 percent return on state investments in Metrorali through 2010.
- 1996: NVTC is named by the American Public Transportation Association as the outstanding government agency in North America supporting transit.
- 2000. NVTC begins to manage Northern Virginia's program for free bus fares on forecast Air Quality Code Red days.
- 2001: NVTC manages a regional farebox initiative that will make local bus systems and VRE compatible with WMATA using SmarTrip card technology.
- 2002: NVTC sponsors a Transit & Technology Expo highlighting the latest technologies being implemented within the region's transit systems
- 2003: NVTC helps to establish the city of Falls Church's GEORGE bus service and updates its comprehensive Northern Virginia Transit Funding Resource Guide.

 2004: NVTC celebrates its 40th Anniversary while leading the region's transit systems in contingency planning for emergency responses at key transit stations. NVTC also is contracting to update Northern Virginia's transportation plan.

Most recently, NVTC compiled a comprehensive analysis of average weekday and annual public transportation trips, showing that FY2003 annual passenger trips on public transit in Northern Virginia increased by nearly 4.6 million trips compared to FY2002, an increase of 3.9 percent.

VRE, the report showed, has more than doubled its ridership since FY 1998 and is virtually at capacity, carrying nearly 16,000 passengers daily. Throughout FY2003, Metrorall also broke one record after another, carrying an ever-increasing volume of passengers. And six local and express bus systems showed solid gains.

All told, NVTC reported that the transit systems serving Northern Virginia carried over 121 million annual passenger trips in Virginia. Many of these trips occur in the most heavily congested commuting corridors during peak commuting hours, which is why transit makes such significant contributions to air quality, energy conservation and traffic relief while creating economic value around key station locations.

The Texas Transportation Institute stated in a recent survey that "if not for transit in the D.C. metro area, congestion would be 33 percent worse than it is today." According to the same study, transit saves \$1 billion in time and fuel for non-transit users.

For more information about NVTC, visit their Web site. The Web site includes a search feature and allows visitors to view and download NVTC's many financial and planning research studies and board materials.

Next week, Commuter Weekly will take a closer look at the Potomac & Rappahannock Transportation Commission (PRTC)

A TOP OF PAGE A

C Copyright 2000 - Virginia Railway Express

Extension of Operating Agreement with CSXT

The VRE Operations Board recommends approval of Resolution #1030. This resolution extends to January 31, 2005, the existing operating agreement with CST which is due to expire on June 30, 2004. The last extension was approved in June, 2003. Progress in negotiations for a new agreement has been very limited, due primarily to divergent positions on insurance.



Virginia Railway Express Operations Board

1500 King Street • Suite 202 • Alexandria, Virginia 22314-2730 • (703) 684-1001 • FAX (703) 684-1313 Web Site: http://www.vre.org • E-Mail; gotrains@vre.org

AGENDA ITEM 9-K ACTION ITEM

TO:

CHAIRMAN JENKINS AND THE VRE OPERATIONS BOARD

FROM:

DALE ZEHNER

DATE:

MAY 21, 2004

SUBJECT:

EXTENSION OF AMENDED OPERATING/ACCESS AGREEMENT WITH

CSXT

RECOMMENDATION:

The VRE Operations Board is being asked to recommend that the Commissions authorize the Acting Chief Operating Officer to execute an extension of the existing Amended Operating/Access Agreement with CSXT to January 31, 2005.

BACKGROUND:

The VRE has an Operating/Access Agreement with CSXT relating to VRE operations in the Fredericksburg to Washington corridor. That agreement, entered into in 1994, has been amended and extended several times, most recently this past June 2003, with an agreed upon extension to June 30, 2004.

Since then, numerous negotiation sessions have been held with CSXT representatives on the terms of a new, long-term agreement. Progress has been slowed because of insurance related issues. Recent discussions have led to agreement on some of the insurance matters, which will permit an opportunity to address other provisions of a new agreement. The six-month extension will be needed to bring these issues to a conclusion.

FISCAL IMPACT:

Funding for CSXT track access fees have been budgeted within the FY 2005 budget.

- A Transportation Partnership -

Northern Virginia Transportation Commission 4350 North Fairfax Drive, Suite 720 Arlington, Virginia 22203 (703) 524-3322 Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, Virginia 22192 (703) 583-7782

RESOLUTION #1030

SUBJECT: Extension of Operating Agreement with CSXT.

WHEREAS: The commissions currently have an amended operating agreement with CSXT relating to VRE operations in the Fredericksburg to Washington corridor, with the agreement extension ending on June 30, 2004;

WHEREAS: Staff is currently engaged in ongoing discussions with CSXT concerning a new agreement and does not anticipate conclusion of these discussions prior to the expiration of the amended operating agreement;

WHEREAS: A proposal to extend the existing agreement to January 31, 2005, without any changes to the basic agreement, is expected from CSXT;

WHEREAS: The purpose of the extension is to allow time to negotiate and resolve the issues relating to a new agreement; and

WHEREAS: Necessary funding for the extension has been incorporated into the VRE FY 2005 budget.

NOW, THEREFORE BE IT RESOLVED that the Northern Virginia Transportation Commission authorizes the VRE Chief Executive Officer to execute an extension of the amended operating agreement with CSXT through January 31, 2005, subject to review by legal counsel.

Approved this 3rd day of June, 2004.

	William Euille	
	Chairman	
Gerry Connolly		
Secretary-Treasurer		

Closed Session on a CSXT Contract Matter

To enter closed session:

Pursuant to the Virginia Freedom of Information Act (Section 2.2-3711A.7 of the <u>Code of Virginia</u>), the Northern Virginia Transportation Commission authorizes discussion in closed session concerning matters relating to the negotiation of a new access agreement with CSXT.

After the closed session:

The Northern Virginia Transportation Commission certifies that, to the best of each member's knowledge and with no individual member dissenting, at the just concluded closed session:

- Only public business matters lawfully exempted from open meeting requirements under the Freedom of Information Act were discussed; and
- Only such public business matters as were identified in the motion by which the closed session was convened were heard, discussed or considered.

VRE STRATEGIC PLAN



Contents

EXECUTIVE SUMMARY	V
Current State of the Railroad	<i>ν</i>
The Strategic Planning Process	vi
The VRE Ridership Market	vii
Strategic Plan Scenarios and Recommendations	viii
Core Network Needs	ix
Potential Network Expansion	x
Phased Service Improvement and Capital Investment Plan	xii
Financial, Institutional and Organizational Issues	
VRE Moving Forward	xiv
1. CURRENT STATE OF THE RAILROAD	1
VRE System Overview	1
The Existing VRE Network	1
History	
Organizational and Financial Structure	2
THE STRATEGIC PLANNING PROCESS	4
EXISTING CONDITIONS – VRE AT CAPACITY	6
2. THE VRE RIDERSHIP MARKET	10
Market Overview	10
VRE PATRONAGE FORECASTING METHODOLOGY	11
REGIONAL DEMOGRAPHIC AND TRIP-MAKING TRENDS	14
Population and Employment	14
Work Trips to Central Business District	
VRE Share of the Work Trip Market to CBD Destination Zones	
PROJECTED RIDERSHIP GROWTH THROUGH 2025	20
3. VRE IN THE FUTURE	26
What's Possible by 2025?	28
How Can We Get There from Here?	30
What's Achievable by 2010?	32
4. CORE NETWORK NEEDS	
EXISTING SUBURBAN STATIONS	34
Fredericksburg Line	
Manassas Line	
New Suburban Stations	
CBD Stations	47
Washington Union Station	
L'Enfant Station	
Crystal City Station	
Alexandria Station	



i



ROLLING STOCK	51
Coaches	52
Locomotives	59
STORAGE YARDS AND MAINTENANCE FACILITIES	63
Mid-Day Storage Requirements	63
Overnight Storage Requirements	65
Equipment Maintenance Options	
RAIL INFRASTRUCTURE	71
TRAIN DISPATCHING AND OPERATIONAL CONTROL	73
5. POTENTIAL NETWORK EXPANSION	75
GAINESVILLE-HAYMARKET	75
FAUQUIER COUNTY	81
SPOTSYLVANIA COUNTY	85
RICHMOND AND CHARLOTTES VILLE	87
Run-Through Service to Maryland	87
6. PHASED SERVICE IMPROVEMENT PLAN	97
7. PHASED CAPITAL INVESTMENT PLAN	102
8. INSTITUTIONAL AND ORGANIZATIONAL ISSUES	105
9. FINANCIAL CHARACTERISTICS OF THE PLAN	107
ANNUAL OPERATIONS AND MAINTENANCE COSTS	
REQUIRED SURSIDY LEVEL	109





Tables

$TABLE\ 2.1\ PROJECTED\ POPULATION\ AND\ EMPLOYMENT\ GROWTH\ WITHIN\ VRE\ CATCHMENT\ AREAS\\ 15$
TABLE 2.2 WORK TRIPS FROM VRE ORIGIN CATCHMENT AREAS TO CENTRAL BUSINESS DISTRICT DESTINATIONS
TABLE 2.3 VRE SHARE OF WORK TRIPS FROM VRE ORIGIN CATCHMENT AREAS TO CENTRAL BUSINESS DISTRICT DESTINATIONS – YEAR 2000
TABLE 2.4 ESTIMATED DAILY VRE RIDERSHIP BY SCENARIO
TABLE 2.5 CBD COMMUTE MARKET SIZE AND ESTIMATED VRE SHARES IN 2025, BY STRATEGIC PLAN SCENARIO
TABLE 4.1.1 VRE SYSTEM STATION PARKING REQUIREMENTS THROUGH 2025 – EXISTING SERVICE TERRITORY
TABLE 4.4.1 VRE PASSENGER COACH FLEET
TABLE 4.4.2 VRE COACH REQUIREMENTS THROUGH 2025
TABLE 4.4.3 VRE COACH PROCUREMENT THROUGH 2025, By Strategic Plan Scenario
TABLE 4.4.4 EXISTING VRE LOCOMOTIVE FLEET
TABLE 4.4.5 VRE LOCOMOTIVE REQUIREMENTS THROUGH 2025
TABLE 4.4.6 VRE LOCOMOTIVE PROCUREMENT THROUGH 2025, By Strategic Plan Scenario 62
Table 4.5.1 Projected VRE Mid-Day Storage Requirements at Washington Terminal Through 2025
TABLE 4.5.2 PROJECTED VRE FREDERICKSBURG LINE OVERNIGHT STORAGE REQUIREMENTS AT CROSSROADS YARD THROUGH 2025
${\it Table 4.5.3\ Projected\ VRE\ Manassas\ Line\ Overnight\ Storage\ Requirements\ Through\ 2025.\ 67}$
TABLE 4.5.4 STORAGE AND MAINTENANCE FACILITY ESTIMATED CAPITAL COSTS
TABLE 4.6.1 RAIL INFRASTRUCTURE CAPITAL COST ALLOWANCES
TABLE 5.1 CAPITAL PROJECTS REQUIRED FOR VRE START-UP SERVICE TO GAINES VILLE
TABLE 5.2 ADDITIONAL CAPITAL PROJECTS REQUIRED FOR FULL VRE SERVICE TO HAYMARKET
TABLE 5.3 CAPITAL PROJECTS REQUIRED FOR VRE SERVICE TO FAUQUIER COUNTY
TABLE 5.4 CAPITAL PROJECTS REQUIRED FOR VRE SERVICE TO SPOTSYLVANIA COUNTY
TABLE 5.5 PREREQUISITES FOR VRE-MARC RUN THROUGH SERVICE
TABLE 6.1 OPERATING PLAN CHARACTERISTICS OF VRE PHASED SERVICE IMPROVEMENT PLAN
Table 7.1 Estimated Capital Costs of VRE Strategic Plan— Mid-Range—Targeted Growth
TABLE 7.2 ESTIMATED CAPITAL COSTS OF VRE STRATEGIC PLAN— HIGH END OF RANGE—AGGRESSIVE GROWTH
Table 7.3 Estimated Capital Costs of VRE Strategic Plan— Low End of Range—Deferred Growth
TABLE 9.1 PROJECTED VRE OPERATIONS AND MAINTENANCE COSTS
TABLE 9.2 ESTIMATED RECOVERY RATIO AND REQUIRED NON-FEDERAL SUBSIDY – TARGETED GROWTH SCENARIO





TABLE 9.3	ESTIMATED	RECOVERY	RATIO ANI	REQUIRED	Non-Federal	Subsidy -	AGGRESSIVE
Grow	TH SCENARIO)					113
					N-FEDERAL SUBS		

Maps

MAPS ARE PROVIDED AT THE BACK OF THE DOCUMENT

MAP 1 EXISTING VRE NETWORK

MAP 2 EXISTING VRE TRIP ORIGINS

MAP 3 EXISTING VRE TRIP DESTINATIONS

MAP 4 VRE ORIGIN CATCHMENT AREAS

MAP 5 VRE CENTRAL BUSINESS DISTRICT DESTINATION ZONES

Figures

FIGURE 1-1 VRE ORGANIZATIONAL STRUCTURE
FIGURE 1-2 THE STRATEGIC PLAN PROCESS
Figure 1-3 VRE Ridership, 1997-2002
FIGURE 2-1 HISTORICAL VRE RIDERSHIP TREND
FIGURE 2-2 PROJECTED POPULATION GROWTH WITHIN VRE ORIGIN CATCHMENT AREAS 1
FIGURE 2-3 PROJECTED EMPLOYMENT GROWTH WITHIN VRE CENTRAL BUSINESS DISTRIC DESTINATION ZONES
FIGURE 2-4 TOTAL DAILY WORK TRIPS TO CBD FROM THE VRE SERVICE AREA – CURRENT, PROJECTE 2025 BASELINE, AND 2025 WITH TRANSIT-ORIENTED DEVELOPMENT AND VRE INDUCED DEMAN
FIGURE 2-5 PROJECTED VRE RIDERSHIP GROWTH THROUGH 2025
FIGURE 3-1 VRE STRATEGIC PLAN SCENARIOS (ILLUSTRATIVE)
FIGURE 4-4-1 VRE RIDERSHIP DEMAND VERSUS SEAT AVAILABILITY (HYPOTHETICAL) – COAC REQUIREMENTS TO MEET TARGETED GROWTH SCENARIO
FIGURE 4-4-2 VRE RIDERSHIP DEMAND VERSUS SEAT AVAILABILITY (HYPOTHETICAL) – COAC REQUIREMENTS TO MEET AGGRESSIVE GROWTH SCENARIO
FIGURE 4-4-3 VRE RIDERSHIP DEMAND VERSUS SEAT AVAILABILITY (HYPOTHETICAL) – COAC REQUIREMENTS TO MEET DEFERRED GROWTH SCENARIO
Figure 5-1 Potential VRE Service Extensions West of Manassas





EXECUTIVE SUMMARY

Current State of the Railroad

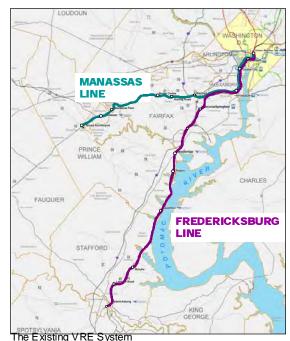
Today, the Virginia Railway Express (VRE) stands at an important junction: in the typical weekday peak period, many trains and parking lots are full, yet the demand for VRE service continues to grow. The service is "a victim of its success." All the performance measures—ridership, customer satisfaction, on time performance—indicate a successful operation, yet nine of the 13 station parking lots are full, and ten of the 24 peak trains are crowded to capacity or beyond. Core system requirements are increasing. Station maintenance costs are rising as the system ages. There is an immediate need for new bi-level railcars and locomotives. Parking is inadequate—whether its parking for commuters at the station or parking for the equipment sets in Washington, DC. There is substantial local interest in extensions of VRE service to Spotsylvania and Fauquier Counties and the I-66 corridor to Gainesville and Haymarket, as well as for run-through service at Washington, DC with MARC, the Maryland commuter railroad, yet the available funding is inadequate to meet even the core requirements.

VRE is faced with large capital investment needs at a time when public funds for transportation projects are scarce. By most accounts, VRE continues to deliver a high quality service to its customers. VRE's greatest challenge moving forward will be obtaining the funding necessary to increase the size of its operation to meet increasing demand while maintaining service quality.

At its founding in 1992, VRE's vision was to provide a safe, convenient, energy-efficient public transportation alternative to driving congested highways from the Northern

Virginia suburbs to the business districts of Alexandria, Crystal City and Washington, DC. Each weekday, VRE now operates 32 trains over two branch lines, covering 90 route miles and serving 18 stations in eight Northern Virginia jurisdictions, and carrying upwards of 15,000 passenger trips.

Organizationally, the Virginia Railway Express is a joint project undertaken by two commissions – the Northern Virginia Transportation Commission (NVTC) and the Potomac and Rappahannock Transportation Commission – which represent the Northern Virginia counties and municipalities in the VRE service area. Members of both entities sit on the VRE Operations Board, which governs VRE. Daily operations and capital projects are financed from a combination of federal, state and local grants, and through the sale of tickets.





MAY 2004



The Strategic Planning Process

In 2001, the Commissions authorized the VRE Chief Operating Officer to prepare a Strategic Plan to guide the future growth and development of the VRE system. Specifically, the Strategic Plan was to estimate future ridership demand, identify the extent, quantity and type of service that VRE would need to provide to meet its future market potential, determine the required capital projects and associated costs, and identify potential implementation and funding strategies. The plan was progressed in two steps. The Phase 1 Strategic Plan was completed in May 2002, focusing on the VRE core network and short-term needs through 2010. The VRE Operations Board subsequently directed a more comprehensive Phase 2 analysis to formulate a long-range vision and Strategic Plan for the railroad through 2025. The principal topics and issues addressed in the Phase 2 work effort included:

- Determining the ultimate size and extent of the VRE network, and the frequency and type of train service, that is consistent with regional travel projections through 2025
- Quantifying the magnitude of capital investment required in the core network through 2025 for stations and station parking, rolling stock (coaches and locomotives), train storage and maintenance facilities, and railroad infrastructure.
- Estimating the potential ridership benefits, capital costs and other impacts of potential extensions of VRE service
- Formulating alternative strategies for achieving long-term ridership objectives
- Prioritizing capital investment needs and service expansion options.

VRE retained the firm of Parsons Brinckerhoff, Inc. to prepare the Strategic Plan, working cooperatively with VRE Staff and the three operating railroads (CSX, Norfolk Southern, and Amtrak). Woodside Consulting Group, Inc. provided additional assistance, preparing a study of operational and infrastructure requirements to support extension of VRE service beyond Manassas to Bealeton and/or Haymarket.

This report documents the results of Phase 1 and Phase 2 strategic planning efforts. This document was not intended to prescribe budget or policy decisions, but rather to:

- Establish the overall direction in which VRE should head.
- Provide the technical basis on which the VRE Board can make policy decisions about investment priorities,
- Inform the development of VRE's out-year Capital Improvement Plan (CIP) and Six-Year Financial Plan.

Drafts of this report were reviewed by VRE staff and other stakeholders, and a VRE Board workshop was held on February 6, 2004 to discuss the Phase 2 Strategic Plan. Board members indicated that they would like VRE to meet its core needs for 2025, explore potential expansion of VRE service to Gainesville/Haymarket and Spotsylvania, and work with the counties to implement Transit Oriented Development (TOD).





The Strategic Plan is fundamentally market-driven, and shows where regional development and travel patterns are leading VRE over the next 20 to 25 years. The plan recognizes, but is not constrained by, the current federal, state and local municipal budget limitations and the current funding climate in which money for large capital projects is difficult to obtain.

This document is intended to identify and clarify the relevant issues and provide insight to the VRE Board, the staff, and the stakeholders, as they wrestle with the decisions that will determine the direction and vision of VRE in the short term and the years to come. Implementing the plan will require difficult tradeoffs and critical decisions with regard to the specific steps VRE should take to respond to both market forces and fiscal and political realities.

The VRE Ridership Market

In the first half of 2003, VRE ridership grew to a new record of approximately 15,000 riders per day. Over the past four years, ridership growth has averaged 16 per cent per year, and VRE now carries twice as many riders as it did in 1999. VRE's principal market is the journey-to-work or commuter trip from the Northern Virginia suburbs to the central business district (CBD), which is defined as the downtown areas of Washington, DC as well as employment centers in Crystal City and Alexandria.

The strategic planning process included an investigation of regional travel patterns and the primary issues that are determining factors for VRE ridership. This includes historical ridership trends, demographic trends and existing and projected future regional travel patterns. The VRE ridership forecasting model, used over the past several years for annual projections of VRE ridership and revenue, was updated and re-calibrated to the most recently available round of regional travel data from the Metropolitan Washington Council of Governments (MWCOG) and incorporated the factored results of the Fall 2002 VRE survey with respect to trip-making on VRE.

The population and employment trends in VRE's core service area show strong growth through 2010 and long-term growth at a somewhat slower rate through 2025. Currently, the fastest rate of suburban growth is at and beyond the outer edges of the VRE service area – in the counties of Prince William, Stafford, Spotsylvania and Fauquier – as residential construction and population continue to thrust outward.

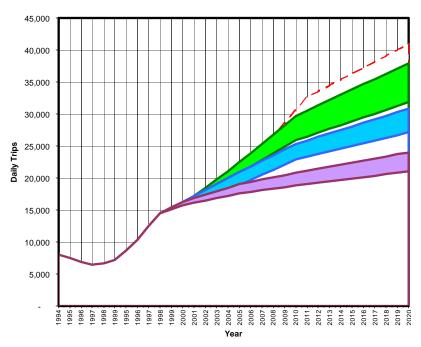
In VRE's principal travel market—work trips from the Northern Virginia suburbs to destination zones surrounding the four innermost stations—future increases in ridership will be a function of two factors in combination:

- Increasing market size, fueled by population growth in the outlying areas and employment growth in the central business district
- Increasing VRE market share, driven by improvements in the level of service offered by VRE, and the cost of that service, relative to those provided by alternative modes of transportation.



- VII - MAY 2004

A good general rule of thumb emerging from the Strategic Plan analysis is that VRE ridership potential the approximately double between 2004 and 2025, with a program of steady investment in the capacity of the rail system. A target level of 30,000 daily VRE trips by the year 2025 is appropriate as a guide for future planning. With proactive leadership and strong, early investment in the railroad, daily ridership as high as 40,000 trips is achievable, but the level of investment necessary over the next decade may not financially feasible. If funding remains severely constrained, or if suburban growth in the region happens in a more scattered fashion, then VRE ridership demand might taper off between 20,000 and 25,000 daily trips.



VRE Daily Ridership—Historical and Range of Future Projections

Strategic Plan Scenarios and Recommendations

Using VRE's future market potential as a guide, the strategic planning process has attempted to define a vision for the railroad in the year 2025 – in terms of its physical extent, the number of trains and the type of schedule operated, and its organizational structure. Three illustrative scenarios were developed for the prioritized staging of service improvements, line extensions and capital investment through 2025, representing the range of potential strategies from a relatively unconstrained, market-driven strategy at the high end (the Aggressive Growth Scenario) to a financially-constrained strategy (the Deferred Growth Scenario) at the low end. The third strategy (the Targeted Growth Scenario) falls in-between, focusing early and medium-term investments on the most productive service improvements and expansions.

A range of ridership estimates were developed that cover the spectrum offered by these three scenarios and also represent the realistic high and low ends of the range of potential future VRE ridership through 2025.

The Strategic Plan study treated the three scenarios equivalently and did not evaluate them against one another or take a position in favor or against any one of them. In effect, each option represents a potentially feasible and rational way to proceed – at three significantly different rates of capital expenditure. The higher cost Aggressive scenario is able to deliver greater benefits sooner. In the lower cost Deferred scenario, commuter rail investment lags behind suburban population growth, resulting in





development patterns that are less favorable with respect to rail travel and a lower overall level of VRE ridership.

However, each of the scenarios has common elements and the same set of near term priorities. The Strategic Plan recommends that VRE's service strategy should have the following three key elements:

- Develop the core network in order to build up capacity in available parking, station facilities, and railroad infrastructure. Then, capital and operating funds permitting, extend the service beyond the core network
- 2. Improve the service and expand the coverage within the territory encompassed by VRE's two commissions. Extend the service first in the territory encompassed by the Commissions
- In coordination with local jurisdictions, proactively seek development partnerships for funding that would enable VRE to grow beyond its boundaries. Such partnerships should support the growth of freight and intercity rail as well as commuter rail in the region.

Core Network Needs

The principal short-term needs for VRE to keep pace with its ridership growth are in the areas of station parking, rolling stock and train storage and maintenance capacity. These basic needs must be met before serious consideration can be given to increasing the quantity of VRE train service or extending VRE service beyond its current service limits. Capital investments must be made in each of these core areas together, as part of a coordinated program, in order for VRE to continue to deliver a high-quality commuter rail service. Under-investing in any one facet of the core network would create a capacity constraint that could render other elements of the system less than fully usable.

The Strategic Plan recommends the following short-term investments, to address the urgent need for additional system capacity and to replace rolling stock assets

- Immediate procurement of 11 cab cars, using available funding, with delivery in the 2006-2007 timeframe, to replace the Mafersa and Sounder cab cars
- Procurement of 50 additional coaches, including a mix of cab cars and trailer units, with delivery in the 2007-2009 period, to provide for growth and to replace the Sounder and older Gallery coaches
- Procurement of 21 new, high-powered Tier II locomotives to haul longer trainsets more efficiently and with reduced emissions.
- Expansion of mid-day storage capacity for VRE trains in the Washington Terminal area, to permit VRE to run longer trains and/or more trains into Washington
- Development of basic equipment maintenance facilities at the VRE Crossroads and Broad Run yard locations



- iX - MAY 2004



- Identification and acquisition of property to satisfy medium to long term train storage and maintenance needs in the Manassas-Gainesville-Haymarket corridor
- Continuation of the program to expand station parking and offer improved alternative station access options for VRE riders at locations where parking demand is at or reaching capacity, in cooperation with the affected counties and local municipalities (e.g., Woodbridge, Rippon, Brooke, Fredericksburg, Burke Centre, Manassas and Broad Run)
- Lengthening of station platforms where necessary to accommodate longer trains.

The Strategic Plan also includes the following recommendations with respect to long-range investment in core network facilities through 2025, to support VRE ridership in the range of 25,000 to 40,000 daily trips:

- The addition of 6,000 to 8,000 parking spaces on the Fredericksburg Line and 6,000 to 9,000 spaces on the Manassas Line by 2025.
- Capital improvements at each of the four major CBD stations The lengthening
 of existing platforms and improvements to CBD stations in order to
 accommodate longer trains and increasing passenger loads.
- Staged acquisition of coach equipment, resulting in a total VRE fleet of standardized, modern bi-level coaches that numbers between 110 at the low end and 170 at the high end by the year 2025
- Construction of an intermediate maintenance facility, as well as sufficient yard storage space to accommodate the increased fleet size, both overnight in Northern Virginia yards or mid-day at Washington Terminal, to enable the implementation of more independent, reliable maintenance practices.
- Second side platforms, rail infrastructure improvements and dispatching changes for better operational flexibility.
- In addition to the parking, fleet and storage needs identified in Phase 1, VRE will need to invest in fleet maintenance facilities, because the existing facilities in Washington do not have sufficient capacity to satisfy VRE's needs over the long term, as the size of the fleet grows and mandated fleet maintenance requirements increase.

Potential Network Expansion

The growth of the northern Virginia suburbs and the availability of affordable new housing are pushing the demand for commuter rail service beyond the boundaries of the current VRE network. The Strategic Plan study analyzed potential extensions of VRE service on existing rail freight lines in Virginia – southward from Fredericksburg into Spotsylvania County, southwestward from Manassas into Fauquier County, and westward from Manassas to Gainesville and Haymarket. The table below summarizes the costs and potential ridership associated with each expansion route.





Potential VRE Expansion							
	Capital Cost, including fleet (In Millions of 2003 Dollars)	2025 Ridership Projections (New Riders/Day)					
Gainesville	\$54.6 – \$69.6	3,100 – 5,500					
Haymarket	\$53.3 – \$68.3						
Fauquier	\$40.6 – \$60.6	1,100 – 2,000					
Spotsylvania	\$16.6 – \$19.1	1,000 – 1,500					

These are not mutually-exclusive expansion options. In fact, the long-range growth projections and strong station-area development potential in each of these corridors support the eventual extension of VRE service. However, phased implementation of extended service is likely to be the way that service evolves, given the intensive capital needs. The Strategic Plan has identified the following priorities:

- Gainesville or Haymarket very strong current growth and station development opportunities, strong ridership potential, able to be implemented within VRE Master Agreement. Service could be implemented in stages to save initial capital costs and dovetail with a major State highway grade crossing elimination project, starting with an interim 8-mile extension to Gainesville, followed ultimately by a 3 mile extension to Haymarket
- 2. Spotsylvania relatively low incremental cost since VRE trains already use a yard facility in Spotsylvania, strong current demand for VRE service, provides relief for overcrowded Fredericksburg station
- 3. Fauquier lesser current demand, more limited land development potential, longer-range opportunity to implement in tandem with improved intercity passenger service on the same route.

In all cases, service extensions are only viable if VRE's core network needs also are being funded and addressed. These projects, therefore, are additive to VRE's basic needs for station parking, rolling stock and train storage and maintenance facilities.

During the course of the development of the VRE Strategic Plan, there has been interest expressed in the possibility of extending VRE service even further than Spotsylvania and Fauquier Counties – to Richmond on the CSX RF&P Line and to Charlottesville on the NS Piedmont mainline. Consideration of Richmond and Charlottesville service was outside the scope of the strategic plan study, but investment decisions by VRE emanating from the strategic plan, particularly those affecting service to Spotsylvania and Fauquier, will need to account for the possibility of future longer-distance service – so that VRE investments are made wisely and cost-effectively.

The notion of integrating the commuter rail services of VRE and MARC and running commuter trains through Union Station to destinations on the far side of the region is a compelling one and has the potential to significantly increase the number of travel markets that the regional commuter rail network can serve. There are many hurdles, however – physical, operational, financial and institutional – that will need to be





resolved before run-through service can become a reality. Run-through service is not an alternative to investment in the core VRE network and should only be considered as an incremental improvement over and above full investment in the core network.

Phased Service Improvement and Capital Investment Plan

At the present time, VRE is limited in the number of trains in can run – by agreement with CSX and because of train storage yard constraints. In the short term, VRE will look to increase its passenger-carrying capacity by lengthening its existing trains and making the necessary investments in rolling stock, storage yards and railroad capacity. As the VRE ridership market continues to grow and the committed rail infrastructure projects are completed, VRE will be able to start increasing the number of trains it operates. The pace at which VRE increases service, and the type of service it operates, will depend upon which of the three Strategic Plan scenarios is being followed, and the rate at which VRE is able to make capital investments.

The Deferred Growth Scenario would retain the existing 11 trainsets for an extended period. The Targeted and Aggressive scenarios would increase VRE service incrementally – first to 13 trainsets, then 16 (offering the potential for peak 20-minute headways, express service and service to Haymarket), and ultimately 19 (full service with line extensions on both the Fredericksburg and Manassas lines).

The VRE Strategic Plan includes a three-phase program of capital investments to support and enable the planned steps in increased service and to respond to increasing levels of demand. The projects and dollar value of investments in each phase vary for each of the three potential Strategic Plan scenarios: Targeted Growth, Aggressive Growth, and Constrained Growth. The table below presents the estimated average annual capital expenditures on VRE infrastructure and rolling stock projects that are necessary to accommodate the full range of projected future demand, roughly corresponding to the three scenarios.

As a point of reference, VRE's FY 2004 capital budget includes \$11.5 million in capital projects. These figures exclude debt service, lease costs and access fees, which in FY2004 are estimated to generate an additional \$18.3 million in costs. The future costs also exclude current projects for which funding already has been committed, such as the CSX MOU rail infrastructure capacity projects and the current parking lot expansion projects at Manassas and Woodbridge.



- Xii - MAY 2004



Annual Capital Investment Needs (in Millions of 2003 Dollars)									
	2005 - 2010 - 2015 2004 2009 2015 2025								
		Low	Infrastructure Rolling Stock	\$10.6 <u>\$29.0</u>	\$21.1 <u>\$13.0</u>	\$14.3 <u>\$4.6</u>			
		(Deferred)	Total	\$39.6	\$34.1	\$18.9			
Infrastructure	\$10.5		Infrastructure	\$22.7	\$55.8	\$25.7			
Rolling Stock	<u>\$1.0</u>	Medium	Rolling Stock	<u>\$29.0</u>	<u>\$19.7</u>	<u>\$10.0</u>			
Total	\$11.5	(Targeted)	Total	\$51.7	\$75.4	\$35.7			
			Infrastructure	\$40.2	\$71.2	\$24.6			
		High	Rolling Stock	<u>\$29.0</u>	<u>\$27.1</u>	<u>\$10.5</u>			
		(Aggressive)	Total	\$69.2	\$98.3	\$35.0			

All three scenarios require additional funding significantly above current levels. In all three scenarios, between FY2005 and FY2009, average annual capital expenditures for rolling stock will need to increase to almost \$30 million, as VRE acquires new locomotives, cab cars and trailer coaches to replace obsolete existing equipment and prepare for continued ridership growth.

Of the three scenarios, the low-end, or Deferred Growth, scenario is more responsive to the financial constraints that currently affect transportation investment in the region, keeping VRE capital expenditures on infrastructure (stations and facilities) at approximately existing levels through FY2009. Rolling stock needs, however, will drive total capital investment well above the current level. This scenario limits early investment to core needs and both expends capital funds and improves VRE service at a slower pace than either of the other two scenarios. As a result, the VRE network would be capacity-constrained through the early years of the plan, with demand for service exceeding the supply that VRE is able to offer. Within this scenario, VRE could choose to use pricing strategies (involving rail fares and potentially station parking fees) to dampen the rate of ridership growth, keeping demand for rail service in line with the supply that VRE can deliver, and generating a higher level of per capita revenue that could be used to partially fund ongoing capital investment and minimize local subsidies. With much of the planned suburban growth occurring before VRE has the ability to serve it well, this scenario is not likely to generate induced demand or transit-oriented development to the extent that either of the other two scenarios can so the long-term level of VRE ridership and market share will be lower.

Financial, Institutional and Organizational Issues

VRE is showing signs of outgrowing its original organizational framework – both in terms of the size and complexity of its operation, and its geographic extent. It has reached and surpassed the level of ridership for which it was originally designed. As an entity of the two Commissions, VRE relies heavily on the member jurisdictions for funding support.





If the level of required annual capital investment increases as provided for in the Strategic Plan under any of the scenarios, and if the amount of required operating subsidy also increases as expected as VRE adds new trains, then VRE in its current form would look to the local jurisdictions to contribute at least their historical share of the railroad's capital and operating subsidy. In the current budget climate, this will be difficult to do.

As a result, the VRE member jurisdictions have an incentive to modify VRE's current funding mechanisms and relationships to permit the higher future costs to be spread among a greater number of benefiting parties, thereby reducing the share (but not the total quantity) of costs to the member jurisdictions. Changes to VRE's organizational structure, or changes to the institutional relationships among VRE's existing and prospective future stakeholders, may be necessary to accomplish the funding goals.

The scope of the Strategic Plan study did not include a comprehensive analysis of organizational and financing alternatives. The study's technical work has concluded that the status quo, in terms of VRE's operations, its performance, and its financing structure, is not sustainable over the long term. Consequently, as the VRE Operations Board and the Commissions set the course for VRE's future growth, begin implementing the Strategic Plan, and explore partnerships with other prospective stakeholders, consideration of institutional and organizational alternatives and innovating financing options will be an important part of the way forward.

VRE Moving Forward

Doubling VRE ridership by 2025 is achievable based on the market projects and a reasonable target for VRE's future planning. Moving towards that goal requires action on the part of the VRE Operations Board with respect to specific investment decisions and overall policy-making. This report has presented three possible strategies which could be followed - Targeted Growth, Aggressive Growth and Deferred Growth. These options are illustrative, and the VRE Board may choose a different route or combine aspects of each of them. However, adopting and then following an overall strategy or "game plan" is important - to guide short-term and tactical decision-making and help ensure that VRE invests cost-effectively and proceeds towards its long-range objectives in the most efficient way possible. Many of the decisions made by VRE in the short term - affecting rolling stock, infrastructure, operating agreements, organizational and institutional relationships, and financing - will lay the groundwork for commuter rail service in Northern Virginia over the next 50 years. Those decisions are likely to involve difficult tradeoffs, as most of the easy and inexpensive options have already been explored.

The ridership market benefits of the Aggressive Growth Scenario are desirable, as are its ability to help shape the way future development occurs in the region and its ability to offer VRE commuter rail service to a larger geographic area. However, the money to pursue aggressive growth, at least in the short term, just isn't available. Fiscal realities point towards the Deferred Growth Scenario, which itself requires a significant step up in terms of annual capital and operating subsidy just to preserve VRE's existing share of the CBD commute market within the territory it now serves. A realistic and achievable strategy, therefore, could be for VRE to proceed with the short term investments required to support the Deferred Growth Scenario, while actively pursuing increased public funding for beneficial growth projects and seeking partnerships with the freight railroads, other passenger rail interests, the adjoining counties, and station





area developers to minimize the overall funding support for VRE that will be necessary from its local member jurisdictions.

Based on the technical work of the study, as well as input from the Board at its February, 2004 workshop, the Strategic Plan recommends that VRE pursue the following initiatives:

- Work towards a ridership goal of 26,000 30,000 trips per day
- Improve the core VRE network and expand its capacity to carry VRE riders
 - Acquire additional rolling stock and locomotives
 - Construct storage and maintenance facilities
 - Improve parking and station access
- Pursue expansion to Gainesville and Spotsylvania
- Explore opportunities for partnerships, including transit oriented development
- Update the plan in three to five years.





1. CURRENT STATE OF THE RAILROAD

VRE System Overview

The Existing VRE Network

The Virginia Railway Express (VRE) operates passenger trains on an 89 route-mile system connecting Washington, DC with Fredericksburg and Manassas, Virginia. From Union Station in the District of Columbia, the Fredericksburg and Manassas lines share the same right-of-way for approximately 9.6 miles, to just south of Alexandria, Virginia, where they diverge.

The Fredericksburg Line roughly follows Interstate 95 and the Potomac River, using the CSX-owned mainline between Washington and Richmond. The line passes through the District of Columbia, Arlington County, the city of Alexandria, Fairfax County, Prince William County, Stafford County and the city of Fredericksburg.

The Manassas Line runs in a westerly direction from Alexandria, roughly paralleling Interstate 66 approximately five miles to the south of the interstate. After leaving Alexandria, the line serves Fairfax and Prince William counties, passing to the south of the city of Fairfax and going through the cities of Manassas Park and Manassas. The right-of-way is owned by the Norfolk Southern Corporation.

The primary mission of the Virginia Railway Express is to transport commuters between outlying suburbs and the Washington-Arlington urban core. The service is heavily oriented towards the central business district in the morning peak and in the opposite direction in the evening peak. Some tourists and "day-trippers" also ride the trains, but there are limited opportunities for non-commuters and people who work non-traditional hours to ride VRE. The only non-peak service is an early-afternoon return trip from Washington on each line, and two limited-stop reverse-direction trains on the Manassas Line in each peak period. There is no service on weekends and holidays.

VRE serves 18 stations. The two lines share four stations: Washington Union Station and L'Enfant in the District of Columbia, and Crystal City and Alexandria in Virginia. Union Station and Alexandria are also Amtrak stations for intercity passenger trains as well as VRE. MARC commuter trains to Maryland also use Union Station. There are four additional stations that have both Amtrak and VRE service: Woodbridge, Quantico and Fredericksburg on the Fredericksburg Line, and Manassas on the Manassas Line. The rest of the stations serve VRE trains exclusively. Most VRE stations have free parking lots.

VRE is an integral part of the greater Washington region's public transportation network and is linked to all of the other modes that operate in the region. There are connections to Amtrak at six stations. Moreover, certain Amtrak trains honor VRE tickets and become, in effect, additional frequencies between the stations served by the Amtrak train. VRE connects with the Washington Metrorail system at five stations (Union Station, L'Enfant, Crystal City, Alexandria and Franconia/Springfield). Local

1



MAY 2004



bus routes of several operators provide service to and connections with VRE at many stations, often with free transfer to local buses. Connecting service information generally is readily available to the public through the VRE website or by telephone. Every station except Broad Run, Brooke, Leeland Road and Rippon has a connection to some form of public transportation.

A map of the existing VRE network showing the extent of service and the location of stations is shown in Map 1. VRE is a tenant on three railroads (CSX Transportation, Norfolk Southern, and Amtrak) and contracts with Amtrak to operate the trains. The VRE territory is a busy, mixed-traffic environment, which VRE shares with intercity passenger and freight trains. VRE owns rail yards at the two southern ends of its system (Broad Run at Manassas Airport, and Crossroads south of Fredericksburg) for overnight storage of equipment. The Amtrak operating agreement provides for mid-day storage of VRE trainsets at Ivy City in Washington, D.C. During this time, Amtrak also does some light servicing and maintenance. Amtrak maintains VRE locomotives and cars at its Ivy City yard and shops. At Broad Run and Crossroads, a contractor does overnight cleaning, and contractors fuel the locomotives. None of these facilities is equipped for major overhauls or heavy repairs.

VRE operates a total of 32 trains each weekday, primarily inbound to Washington, DC during the morning peak period and outbound from Washington in the afternoon peak, requiring 11 different equipment sets of varying length. The existing VRE fleet, including equipment currently on order but excluding short-term leased equipment, consists of 15 locomotives and 96 coaches. The Washington Terminal Coach Yard, however, can accommodate only 69 VRE units for mid-day storage – 11 locomotives with 58 coaches – which poses a severe capacity constraint for VRE.

History

Unlike most commuter rail operations, VRE was not the direct descendent of a freight railroad's passenger service. The vision for the Virginia Railway Express was born out of the relentless growth of the Northern Virginia suburbs in the Seventies and Eighties and the desire for convenient, energy-efficient, public transportation as a viable alternative for commuters from Virginia to Washington, DC. Commuter service commenced in 1992, superimposed on a railroad infrastructure with already long established traffic patterns for freight and intercity passenger trains.

In 1992, VRE operated 16 trains on a \$21 million operating and capital budget; in 2003, VRE operated 32 trains on a \$55 million operating and capital budget.

Over the first ten years of its existence, VRE's capital needs have been concentrated on stations and rolling stock, taking advantage of the existing railroad infrastructure and the initial construction of its two outlying train storage yards. As the system has begun to reach its capacity, VRE has accommodated ridership growth primarily by expanding parking at its stations and expanding its rolling stock fleet, through a combination of short-term leases of equipment and acquisition of available second-hand coaches from other commuter rail properties.

Organizational and Financial Structure

The Virginia Railway Express (VRE) is a joint project undertaken by the Northern Virginia Transportation Commission (NVTC) and the Potomac and Rappahannock

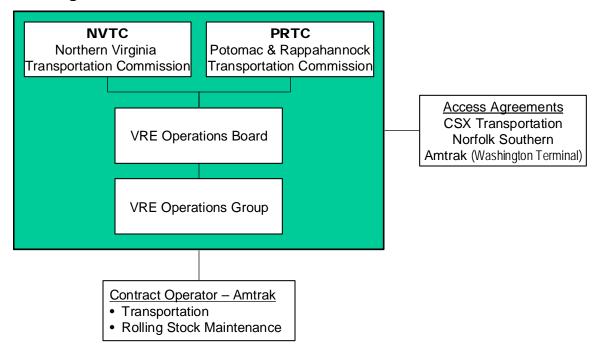


- 2 - MAY 2004



Transportation Commission (PRTC). NVTC is a state-created entity of Arlington, Fairfax, and Loudon counties and the cities of Alexandria, Fairfax and Falls Church. PRTC's member jurisdictions are Prince William and Stafford counties and the cities of Fredericksburg, Manassas, and Manassas Park. The geographic boundaries of the two commissions and member jurisdictions are highlighted in Map 1. Figure 1-1 presents a simplified chart of VRE's organizational structure and relationships with its contract operator and host railroads.

Figure 1-1 VRE Organizational Structure



Under the Master Agreement, NVTC and PRTC jointly own and operate the VRE. Service started on both the Manassas and the Fredericksburg lines in 1992. Currently, VRE operates 32 trains per weekday, primarily in the morning and evening commuter peak periods.

Amtrak operates the VRE trains over its own lines in Washington Terminal and over the existing lines of CSX Transportation, Inc. (CSXT) and Norfolk Southern Corporation (NS) pursuant to individual operating and access agreements with the freight railroads. An Operating Agreement between VRE and Amtrak covers the use of Amtrak operating crews, facilities, and maintenance of equipment employees.

An Operations Board governs VRE with delegated authority from the commissions. This board was established under the Master Agreement to coordinate the development and operation of VRE. The Operations Board consists of seven appointed members: three commissioners from NVTC, three commissioners from PRTC, and an *ex officio* representative from the Virginia Department of Rail and Public Transportation. The Board serves as an advisory body to the NVTC and PRTC commissioners and oversees the development and operation of VRE. It is responsible, within the scope of approved budgets, for the management of all monies attributable to VRE, including federal and commonwealth grant funds as well as local contributions.





The Master Agreement makes the Operations Board responsible for the annual preparation and revision of VRE's budget, as well as a six-year financial plan for approval by the commissions.

The Operations Board established the Operations Group in 1991 to oversee day-to-day operations and to participate in strategic and financial planning for the system. Currently, the Operations Group consists of approximately 30 full-time professional/technical staff. VRE is financed with bond proceeds, federal and Commonwealth of Virginia grants, appropriations from participating and contributing jurisdictions, and with the revenue derived from ridership. VRE currently spends an average of \$13-\$15 million per year on capital projects. Many of these projects receive federal funding, which can cover up to 80 percent of the total cost, with the remainder comprising the "non-federal share."

VRE's direct operating expenses were approximately \$24.8 million in FY03, of which approximately 62% is covered by passenger fares. The bulk of the non-federal share for VRE capital projects falls primarily to local jurisdictions. The overall level of local financial support remained stable at approximately \$5.8 million annually for several years, with VRE able to fund a portion of its annual expenses from its debt service reserve. With overall annual costs increasing and the debt service reserve funds fully expended, the level of local financial support in FY 2004 increased to \$6.4 million.

The Strategic Planning Process

The fundamental objectives of the VRE Strategic Plan are as follows:

- Enable the service owners to establish a future vision for the VRE system.
- Define the future extent and level of VRE service that is supportable by projected ridership demand.
- Define the appropriate level of long term public investment in VRE commensurate with the ridership and mobility benefits realized.
- Identify capital investment requirements, both in terms of short-term priorities and long-term needs.
- Identify opportunities for funding partnerships and organizational changes that can help enable the vision to be achieved.

A strategic plan is needed now because VRE has been very successful in accomplishing its primary mission, and that success has brought ridership growth beyond the original vision of 10,000 trips per day. Ridership has been growing steadily since FY 1999 and is projected to reach or exceed 18,000 riders by 2010, which is almost twice the level of ridership envisioned in the original VRE planning. Without a comprehensive strategic plan and the actions that result from it, constraints in railroad line capacity, train storage capacity, rolling stock equipment ownership, and station parking availability will severely dampen or limit projected growth.



- 4 - MAY 2004



Key elements of the strategic plan include:

- A vision for the future role of VRE in the region's transportation system
- An operating plan (in other words, a description of the proposed service)
- Tabulation of infrastructure and rolling stock fleet requirements
- Estimates of projected ridership and fare revenue
- Estimates of capital costs and annual operations and maintenance costs
- An evaluation of alternative network, service and investment scenarios, including lower-cost and higher-cost options
- A program of phased capital investments, service growth and expansion.

The planning process has been a two-phase effort. The **Phase 1 Preliminary Plan** was documented in a report dated June 2002 and addressed immediate short-term needs and identified early action items prior to the completion of the full comprehensive long-range plan. Its focus was on the existing VRE service territory – identifying and prioritizing projects that were deemed essential for maintaining a high level of service quality while accommodating increasing ridership demands through 2010.

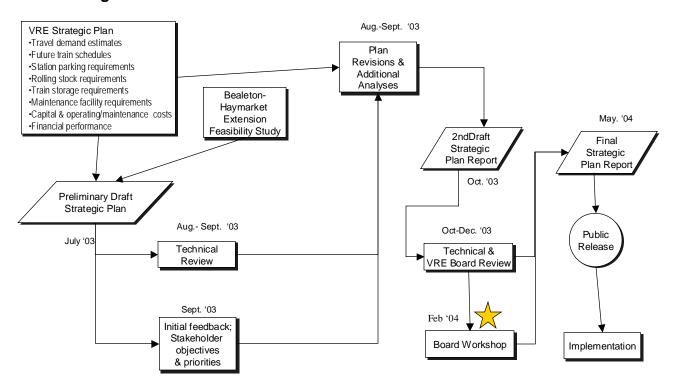
The **Phase 2 Full Strategic Plan**, diagrammed in Figure 1-2, addresses service improvement alternatives and associated capital investment requirements and operational and institutional issues over a longer horizon period – through 2025. This system plan provides a blueprint for shaping the extent of the VRE network, the frequency and type of service to be offered, and the most cost-effective strategies for procuring and maintaining the rolling stock fleet. Service designs and operating plans have been developed for a range of alternative scenarios.



- 5 - MAY 2004



Figure 1-2
The Strategic Plan Process



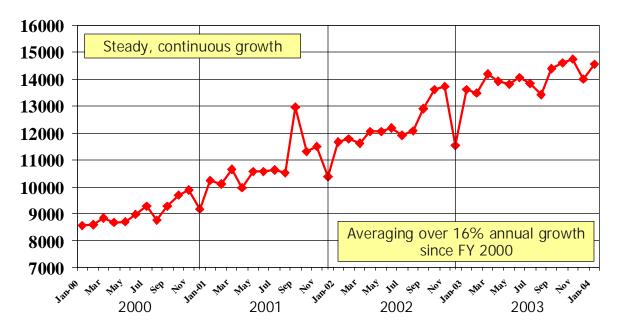
Existing Conditions – VRE at Capacity

From a modest beginning of 16 trains and 1,800 riders per day in 1992, VRE now operates 32 trains carrying approximately 15,500 daily riders on a service that was designed and sized for 10,000 riders a day. VRE's ridership has been steadily increasing at an average rate of about 16 percent per year over the past four years (Figure 1-3), which places VRE near the top of all U.S. commuter railroads in terms of the rate of ridership growth. A total of over 3 million passenger trips per year are made on the VRE. Ridership demand continues to grow, despite fare increases and increasingly crowded trains and station parking lots.



- 6 - MAY 2004

Figure 1-3 VRE Ridership, 1997-2002



Overall, on-time performance (OTP) is above 90 percent. Through the first three quarters of FY 2004, monthly Fredericksburg Line OTP ranged from 74 to 89 percent. The Manassas Line achieved a higher level of OTP than the Fredericksburg Line – between 86 and 93 percent. The Fredericksburg line, owned and operated by CSX, has a greater traffic density and presents a greater operating challenge because of the relatively heavy mix of commuter, intercity passenger and freight traffic, when compared with the Manassas Line. The Manassas Line is owned and dispatched by Norfolk Southern west of the junction of the two lines at Alexandria and has a lower level of freight and overall traffic than the Fredericksburg Line.

One factor contributing to the VRE's recent success has been its strong focus on customer service and the one-on-one relationship that it has built with many of its riders. Some original VRE riders continue to ride today, a notable achievement in an area as product sensitive as Northern Virginia where there are alternative transportation choices. The underlying VRE philosophy that drives VRE's excellent relationship with its riders is that VRE is committed to make commuting on its trains as efficient, reliable, and stress free as possible-- safe transportation on time. Without investment, however, the traditionally high level of customer satisfaction offered by VRE will gradually erode as increasing numbers of commuters have difficulty finding available parking and seats on the trains.

Rail Infrastructure. Over the first ten years of its existence, VRE has focused its capital investment primarily on stations and rolling stock, taking advantage of the existing railroad infrastructure. VRE trains operate in a mixed traffic environment, with commuter, intercity passenger and freight trains sharing the same tracks and rights-of-way. By their very nature, commuter rail operations such as VRE consume a major share of the available railroad line capacity during weekday peak commute hours, and relatively less at other times. Demand for rail freight is increasing in the Northeast





U.S., with the need to maintain high levels of performance and reliability to enable rail to compete with the over-the-road mode, and increasing pressure to operate passenger and freight trains in mixed traffic during the weekday commuter peak periods. This in turn will drive the need for additional capacity improvements to ensure that all rail operators are able to offer reliable service to their customers.

VRE participated in the recent \$12.5 million upgrade to the CSX railroad infrastructure at AF Interlocking in Alexandria, the junction where the Fredericksburg and Manassas Lines converge. This was VRE's first public-private partnership in cooperation with CSX, the Commonwealth of Virginia, and the two Commissions. The agreement that fostered this project also committed other line capacity improvements over the next five years that provide the framework for VRE expansion up to as many as 40 trains per day, as is discussed in Phase I of the Strategic Plan.

Rolling Stock. Throughout most of VRE's history, capacity growth was met by a significant amount of equipment leased for relatively short terms to supplement the equipment VRE owned. Most recently, VRE took advantage of the excess equipment owned by Sound Transit (the new-start commuter rail system in the Seattle region) to lease 18 high capacity bi-level cars, enough for three train sets. In addition, a number of bi-level Gallery cars formerly in service on Chicago commuter lines have been refurbished and put into VRE service. Even so, the practical carrying capacity of the existing fleet and system has effectively been reached, with several peak period trains having standees approaching Washington Union Station and a number of station parking lots filled to capacity.

Although VRE has been able to accommodate its ridership demand up until now, the continued dependence on borrowed or leased equipment means that available seats will peak by 2006, and then drop off unless VRE invests in additional new rolling stock. VRE's lease on the three sets of Sounder cars is short term and relatively costly, so it will make sense to return this equipment to Seattle as soon as sufficient other rolling stock is available. Putting the full complement of 45 Gallery cars in service will compensate for the loss of the Sounders and the prospective sale of the Mafersa single level cars, but the Gallery cars themselves are just a stop-gap measure. They have only a limited life-expectancy and will need to be replaced in the 2010-to-2015 timeframe.

VRE must acquire additional railcars and locomotives to maintain its current operation and sustain growth. Without a new procurement, the combination of increasing ridership demand and an aging existing fleet will lead to VRE seat shortages by the end of the decade. As a start, \$100 million is urgently needed to acquire approximately 50 bi-level railcars. In addition, the entire diesel locomotive fleet will need to meet new Federal clean air standards, which recently have become more restrictive, and VRE will have to either upgrade its existing fleet or acquire new clean, high-horsepower locomotives.

Station Parking. As of March, 2004, eight of VRE's 13 rail station parking lots reach or exceed their practical capacity (85% or better utilization) before the end of the morning peak period, This is the case despite a steady program of parking expansion at VRE stations over the past several years. In response, many passengers are now arriving for earlier trains, or parking illegally, or circling in vain to find a parking spot.

The end of the line stations, Fredericksburg and Broad Run, continue to see parking demand well in excess of the available supply, with recently-expanded parking lots



-8-



almost immediately filling to capacity. Woodbridge, currently at 90 percent utilization, is scheduled to have additional surface parking capacity added in 2004, with a second parking garage to follow. Plans are underway for new parking structures at Burke Centre and Manassas, both of which are at or over full capacity. The only three stations with substantial quantities of available parking, Manassas Park, Rippon and Lorton, have all seen a recent doubling of available surface parking – and at the first two locations the expansion lots are rapidly filling up. Seven existing stations, divided between the two lines, are of concern with respect to parking capacity in the short to medium term. Analysis of VRE ridership survey data indicates that passengers are quite willing to drive from five to ten miles to reach the rail station. In the near future, no further parking expansion will be possible without additional capital funding.

Train Storage. After the morning peak period, all 11 VRE train sets end up at Amtrak's Ivy City Coach Yard where they are stored and serviced until they are required for the afternoon trains. Midday storage has become critical since there is no additional space for passenger car storage. The VRE area of Ivy City can accommodate 69 units (locomotives and coaches), which is exactly how many units are currently operated and stored.

To accommodate additional trains for ridership growth, or even additional cars on existing trains, more storage space will have to be created in or near Washington Terminal. This requires capital investment and new construction. VRE is working with Amtrak and CSX on a plan for increasing train storage capacity at Washington.

Addressing these capital needs will directly benefit VRE's riders, but it also will have an impact on the entire region. VRE's commuter rail service is part of the larger Northern Virginia transportation network and provides a travel option for commuters throughout Northern and Central Virginia, including approximately 4,200 government and military workers. Passengers who use VRE create capacity on other modes such as highway and Metrorail.

In addition, VRE is a critical part of the region's transportation infrastructure for regional mobility and for evacuation in the event of an emergency. As an energy efficient mode, VRE also helps address critical air quality and congestion issues in a metropolitan region that has been designated as a severe non-attainment area for ground level ozone and is consistently ranked as one of the nation's most congested regions.

In general, the current VRE system is stretched to the limit of its available capacity and must expand that capacity in the near term if it is going to satisfy growing ridership demand. The pressure of increasing population, poor air quality, and rising traffic congestion, coupled with employer subsidies of public transportation fares, will continue to push VRE beyond the limits of its capacity. The VRE Operations Board and Commissions are now faced with having to justify and obtain the level of investment in infrastructure and operating subsidy necessary to sustain growth and maintain high-quality service. This will be a challenge, since these decisions will extend VRE beyond its historical level of funding commitments.



- 9 - MAY 2004

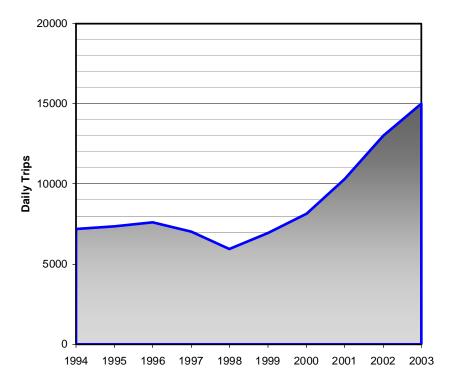


2. THE VRE RIDERSHIP MARKET

Market Overview

VRE daily ridership in the first half of 2003 grew to the record high level approaching 15,000 trips per day (see Figure 1-1). Over the past four years, ridership growth has averaged 16 percent per year, and VRE now carries twice as many riders as it did in 1999. Factors contributing to the recent growth spurt include continued suburban residential development and population growth in the suburban and exurban communities served by VRE, strengthening of the job market in downtown Washington, DC, increasing congestion on the principal highways serving the Washington business district, the lack of convenient and affordable parking downtown, and expansion and more widespread use of the available Federal transit subsidy programs (MetroChek).

Figure 2-1
Historical VRE Ridership Trend







Train schedules have remained relatively constant over the past three years. Early afternoon trains returning to the suburbs from Washington have been added on both the Manassas and Fredericksburg Lines, but rush hour service headways have remained at approximately 30 minutes. The recent growth in ridership has been accommodated by the acquisition of bi-level coaches with a higher seating capacity than VRE's original single level cars.

VRE's principal market is journey-to-work or commuter travel from northern Virginia suburbs to the Washington, DC central business district and employment centers in Crystal City and Alexandria, VA. The service provided by VRE is concentrated during weekday rush hours and is strongly focused on the peak direction of travel – inbound towards Washington in the morning and outbound in the afternoon. As a result, other travel markets and trip purposes are not served very well by VRE.

Ridership is relatively evenly split between the two branch lines, with the Fredericksburg Line carrying slightly more riders. VRE ridership tends to peak in the Spring and Fall months (April through June and September-October). Within the workweek, travel tends to be heavier in the middle of the week than on Mondays and Fridays. As a result, typical mid-week, Spring or Fall traffic levels are used as the basis for service, fleet and facility planning.¹

Maps 2 and 3 show the distribution of home origins and workplace destinations of VRE riders, based on survey responses from October 2002. Clusters of demand are evident along the VRE service corridors and in proximity to VRE stations, but there are a significant number of commuters from all across the northern Virginia region who ride the VRE, generally residing south of I-66 and outside the Beltway. Rolling Road and Burke Centre present the highest concentration of VRE riders. Passenger origins tend to be more dispersed along the Fredericksburg Line, where the average rail commuter has to drive a longer distance to reach a VRE station.

Most VRE riders drive to a suburban station, park their car, and take the train to the central business district. Approximately 15 percent use other means to get to the station – they walk, carpool, get dropped off, bike, or take a feeder bus at one of the few stations that offers feeder service.

VRE Patronage Forecasting Methodology

The strategic planning process included an investigation of regional travel patterns and the primary issues that are determining factors for VRE ridership. This includes historical ridership trends, demographic trends and existing and projected future regional travel patterns. The regional travel demand estimates prepared by the Metropolitan Washington Council of Governments (MWCOG) were formatted into a large database. The resulting set of origin-destination trip tables provides a comprehensive picture of trip making characteristics of commuters in the corridors served by VRE trains. Also, the results of a VRE passenger survey in October 2002 provide specific geographic information about the current origins and destinations of VRE customers (see Maps 2 and 3).

¹ The same principle applies in assessing freight traffic. The line capacity has to accommodate the peaks and not just the weekly or seasonal averages.



- 11 - MAY 2004



Forecasts of future demographic growth in the region through 2025, and the effects of that growth on trip-making patterns, were prepared independently by MWCOG and have been used to estimate the effects of projected population and employment growth on the size of the travel markets in which VRE service competes. MWCOG travel analysis zones (TAZs) were aggregated into VRE origin catchment areas, based on the distribution of home origin locations associated with each VRE station. In the area surrounding and to the west of Manassas, where extension of the VRE network is contemplated, several additional catchment areas were defined to enable travel patterns and existing VRE mode shares to be estimated, and future shares projected. Map 4 shows the boundaries of the various VRE origin catchment areas.

A similar aggregation of TAZs was performed for VRE destinations. Four relatively large destination zones were identified, associated with each of the major VRE destination stations: Union Station, L'Enfant, Crystal City and Alexandria. Together, these zones are defined and classified for purposes of this study as the "VRE Central Business District." Within these zones, smaller aggregations of TAZs also were identified so that the differences in VRE mode share for workplace destinations within walking distance of the four stations could be captured. The destination zone boundaries are shown in Map 5.

The VRE ridership forecasting model, used over the past several years for annual projections of VRE ridership and revenue, was updated and re-calibrated to the most recent available round of regional travel data from MWCOG, (Round 6.2), plus the factored results of the Fall 2002 VRE survey, with respect to trip-making on VRE. This model then was used to predict the future level of ridership under various alternative rail service plans, including changes in service frequency and the geographic extent of rail service.

Future updates of the ridership projections will account for the changes contained in the Round 6.3 regional demographic and travel forecasts, and also will use the results of the 2000 Census journey-to-work data to refine the model. Neither the Round 6.3 MWCOG data nor the 2002 Census data were available in time for use in the Phase 2 VRE strategic planning effort.

The regional projections present one view of future demographic growth and travel patterns within the region. Following several decades of suburbanization and the increasing dispersion of population and jobs – the regional models and projections tend to forecast the general continuation of these historical trends. While useful for general transportation planning and as for the evaluation of a wide array of transportation issues and projects across the entire region, the projections may not capture the full effect on land development and trip-making patterns of making significant improvements in rail access between the city and suburbs. In particular, these data do not fully account for the ability of major transit investments to induce a higher level of overall travel in the corridors they serve, or the complementary effects of relatively intensive, well-designed development in the immediate vicinity of rail stations on both the quantity of travel and the share of those trips using transit.



- 12 - MAY 2004



Analysis of travel patterns and mode choices within the VRE service area at the TAZ level yielded information that shows these effects at work, with respect to the existing VRE system. Based on these observations, a sensitivity analysis was undertaken to develop an estimate of the potential effects on VRE ridership of transit-oriented development (TOD) — providing concentrations of new residential or commercial development in close proximity to rail stations — and the potential effect of the presence of VRE service on regional trip-making patterns within growing portions of the region. The potential change in ridership demand was estimated discretely for each existing and potential new VRE station. The results were checked at the destination end to make sure in the high range forecasts that the proportion of trips into the CBD destination zones from the VRE service area was not out of proportion.

These two sets of potential ridership estimates then were used to define the limits of a range of projected future ridership — with the COG projections on the low end representing the historical trend projection, and the alternative estimates indicating the up-side potential for VRE ridership of proactively engaging local jurisdictions and developers in an aggressive program to plan for and implement TOD projects and other rail-friendly development. Actual future performance should fall somewhere inbetween.

The analysis focused on defining and understanding the work trip market. Other trip purposes are reflected in the estimated daily ridership totals through factoring up of work trips, based on historical experience.



- 13 - MAY 2004



Regional Demographic and Trip-Making Trends

Population and Employment

VRE is situated in a region that is growing at a relatively fast pace — in terms of both population and employment. That growth is projected to continue into the future, with household population within the VRE catchment areas estimated to increase by 36 percent, and total employment projected to increase by 41 percent, between 2001 and 2025. However, the rate of growth will start slowing after 2010 as many of the outlying suburban counties become built-out and the pace of new residential construction slows. Figures 2-2 and 2-3 illustrate these anticipated trends.

Figure 2-2
Projected Population Growth Within VRE Origin Catchment Areas

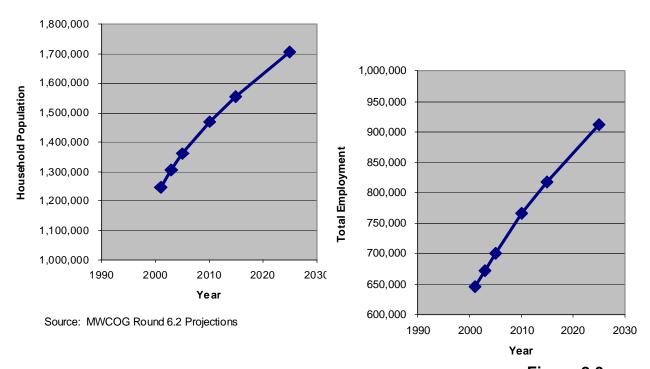


Figure 2-3
Projected Employment Growth Within
VRE Central Business District Destination Zones





Table 2.1 shows projected population and employment growth by VRE catchment area. There are some interesting differences by area. The highest rates of population growth are projected to occur in the outlying portions of the study area, particularly along the I-66 corridor in Gainesville, Haymarket and Loudoun County. With respect to employment, the projections indicate strong growth in the Fredericksburg area (including Spotsylvania and Stafford Counties), and in the industrial corridor between Manassas and Gainesville.

Overall population within the VRE suburban service area is projected to grow by 400,000 between 2001 and 2025. However, total employment is projected to grow by only 200,000 – in the identical geographic area over the same time period. While not every person is a worker, and other demographic, economic and social factors also affect where people choose to live and work, these data indicate that the VRE service area will likely be a significant net *exporter* of workers to elsewhere in the region over the next 25 years. The central business district will be the recipient of a significant number of these work trips from the suburbs.

Table 2.1
Projected Population and Employment Growth Within VRE Catchment Areas

		Household Population			Total Employment			
Origin Catchment Area	2001	2025	Growth	Pct.Change	2001	2025	Growth	Pct.Change
Lorton	56,563	73,813	17,250	30.5%	39,171	51,391	12,220	31.2%
Woodbridge	95,613	104,812	9,199	9.6%	32,504	43,579	11,075	34.1%
Rippon	66,352	82,056	15,704	23.7%	10,665	17,078	6,413	60.1%
Quantico	74,397	111,780	37,383	50.2%	26,887	33,845	6,958	25.9%
Brooke	7,337	9,873	2,536	34.6%	2,369	3,581	1,212	51.2%
Leeland Road	46,883	66,503	19,620	41.8%	16,821	29,422	12,601	74.9%
Fredericksburg	81,675	111,299	29,624	36.3%	47,751	81,112	33,361	69.9%
Backlick Road	98,083	111,983	13,900	14.2%	51,597	57,917	6,320	12.2%
Rolling Road	67,248	73,674	6,426	9.6%	7,278	7,564	286	3.9%
Burke Centre	60,652	72,809	12,157	20.0%	11,192	12,838	1,646	14.7%
Fairfax Station	23,943	29,758	5,815	24.3%	2,402	2,624	222	9.2%
Fairfax City	21,485	24,008	2,523	11.7%	31,029	32,695	1,666	5.4%
Centreville/Chantilly	75,921	101,100	25,179	33.2%	75,375	120,609	45,234	60.0%
Clifton	2,650	3,101	451	17.0%	451	412	(39)	-8.6%
Manassas Park	91,054	111,149	20,095	22.1%	12,233	16,101	3,868	31.6%
Manassas	30,370	33,277	2,907	9.6%	15,878	18,145	2,267	14.3%
Sudley Manor	30,866	41,772	10,906	35.3%	19,512	45,304	25,792	132.2%
Gainesville	12,372	36,787	24,415	197.3%	4,261	11,421	7,160	168.0%
Haymarket	10,910	35,554	24,644	225.9%	1,520	2,917	1,397	91.9%
South Loudoun	12,994	84,966	71,972	553.9%	4,437	9,646	5,209	117.4%
Delaplane/Hume	11,509	18,729	7,220	62.7%	1,613	2,419	806	50.0%
The Plains	2,673	4,346	1,673	62.6%	593	892	299	50.4%
Warrenton/New Baltimore	20,528	32,676	12,148	59.2%	11,987	23,034	11,047	92.2%
Broad Run	21,817	31,468	9,651	44.2%	8,375	12,937	4,562	54.5%
Nokesville	2,332	4,373	2,041	87.5%	905	906	1	0.1%
Calverton/Bealeton	25,033	39,822	14,789	59.1%	3,479	5,813	2,334	67.1%
Total VRE Service Area	1,051,260	1,451,488	400,228	38.1%	440,285	644,202	203,917	46.3%

Source: MWCOG Round 6.2 Forecasts



- 15 - MAY 2004



Work Trips to Central Business District

Table 2.2 looks at the work trip characteristics of the VRE catchment areas, as well as the destination zones surrounding the four innermost VRE stations – Union Station, L'Enfant, Crystal City and Alexandria. VRE's principal travel market comprises journey-to-work trips from the origin catchment areas to the downtown central business district destination zones. The table illustrates the current magnitude of these trips and the extent to which they are projected to change through 2025.

In 2001, about 20 percent of all workers in the VRE catchment areas commuted to jobs in the central business district. MWCOG projects that the VRE catchment areas will generate an additional 40,000 daily work trips to the central business district by 2025. However, the percentage of all workers commuting to the business district is projected to decline, from 20 percent to 17 percent, reflecting the expected continuation of strong suburban employment generation in the region.

Looking at the same data from the point of view of the CBD destination zones highlights the same general trend. In 2001, the northern Virginia communities and areas served by VRE furnished 12.6 percent of all workers within the central business district as defined for this study. By 2025, the VRE areas' share of all work trips into the CBD is projected to decline slightly, to 12.2 percent, as a higher percentage of downtown jobs are assumed to be filled by residents of the inner urban areas and from other suburban regions such as Loudoun County.

Overall, the work trip market from the VRE service area to the central business district is projected by MWCOG to grow by 28 percent. The rate of growth is projected to be greatest in the outer portion of the VRE service area.



- 16 - MAY 2004



Table 2.2 Work Trips from VRE Origin Catchment Areas to Central Business District Destinations

	2001				2025	Percent Growth		
	Total to 4	Total to	Pct. to 4	Total to 4	Total to	Pct. to 4	To 4	То
Origin Catchment Area	CBD Zones	All Dests	CBD Zones	CBD Zones	All Dests	CBD Zones	CBD Zones	All Dests
Lorton	10,089	37,743	26.7%	12,849	50,459	25.5%	27.4%	33.7%
Woodbridge	11,611	64,473	18.0%	12,616	77,545	16.3%	8.7%	20.3%
Rippon	6,931	43,960	15.8%	8,656	59,974	14.4%	24.9%	36.4%
Quantico	8,629	55,806	15.5%	12,246	89,133	13.7%	41.9%	59.7%
Brooke	650	5,625	11.6%	746	7,982	9.3%	14.8%	41.9%
Leeland Road	1,967	34,856	5.6%	2,379	52,839	4.5%	20.9%	51.6%
Fredericksburg	3,559	58,821	6.1%	3,818	85,424	4.5%	7.3%	45.2%
Backlick Road	21,776	74,912	29.1%	25,110	88,818	28.3%	15.3%	18.6%
Rolling Road	12,392	49,141	25.2%	13,062	54,401	24.0%	5.4%	10.7%
Burke Centre	8,682	44,596	19.5%	9,982	52,954	18.9%	15.0%	18.7%
Fairfax Station	2,660	17,083	15.6%	2,922	19,956	14.6%	9.8%	16.8%
Fairfax City	3,508	16,725	21.0%	3,957	18,777	21.1%	12.8%	12.3%
Centreville/Chantilly	8,974	60,941	14.7%	10,961	81,594	13.4%	22.1%	33.9%
Clifton	239	1,943	12.3%	247	2,003	12.3%	3.3%	3.1%
Manassas Park	7,747	67,764	11.4%	9,119	86,352	10.6%	17.7%	27.4%
Manassas	1,517	21,269	7.1%	1,905	26,190	7.3%	25.6%	23.1%
Sudley Manor	2,072	18,978	10.9%	2,906	30,331	9.6%	40.3%	59.8%
Gainesville	761	8,716	8.7%	1,903	26,023	7.3%	150.1%	198.6%
Haymarket	650	7,345	8.8%	1,848	24,905	7.4%	184.3%	239.1%
South Loudoun	249	5,305	4.7%	3,500	66,892	5.2%	1305.6%	1160.9%
Delaplane/Hume	342	9,220	3.7%	545	16,387	3.3%	59.4%	77.7%
The Plains	106	1,989	5.3%	166	3,537	4.7%	56.6%	77.8%
Warrenton/New Baltimore	723	15,300	4.7%	1,144	27,685	4.1%	58.2%	80.9%
Broad Run	976	13,722	7.1%	1,502	21,932	6.8%	53.9%	59.8%
Nokesville	111	1,612	6.9%	196	3,161	6.2%	76.6%	96.1%
Calverton/Bealeton	623	20,441	3.0%	1,048	36,366	2.9%	68.2%	77.9%
Total from VRE Svc. Area	117,544	758,286	15.5%	145,333	1,111,620	13.1%	23.6%	46.6%
Total from All Origins	929,748	•	•	1,190,497	•		28.0%	
% from VRE Svc. Area	12.6%			12.2%		•		





VRE Share of the Work Trip Market to CBD Destination Zones

Table 2.3 presents the proportion of all work trips from the VRE origin catchment areas to the central business district destination zones that used VRE in the year 2000, the last year of available detailed data. These percentages represent VRE's "mode split" in the corridors and travel markets that VRE serves. From VRE's overall northern Virginia service area, excluding the zones close to Washington, DC where convenient Metrorail and bus service to the core is offered, the railroad in 2000 captured only 9.3 percent of all work trips to and from the central business district. With continued rapid growth in VRE ridership, the current (2004) VRE mode share is considerably higher, estimated to be close to 14 percent.

Were that volume of people to attempt to drive to their workplaces during rush hours, the region's highways – including I-95, I-667 and the Capital Beltway –would experience a marked increase in traffic congestion. Similarly, were they to all attempt to take the Metro, they would significantly worsen already crowded conditions.

The year 2000 data show that VRE share tends to increase with distance from the CBD. In the areas with the greatest concentration of VRE riders, such as in the vicinity of the Woodbridge or Burke Centre stations, VRE captured 8-to-9 percent of all CBD work trips. Closer in (say, around Lorton or Backlick Road), VRE captured a much smaller share, on the order of 1-to-3 percent.

As one moves further outward, though, VRE's mode shares increase significantly. In Fredericksburg and the surrounding areas of Stafford and Spotsylvania Counties, VRE's mode share in 2000 was in the 35-to-41 percent range. In the Manassas and Broad Run area, VRE captured in 2000 was over 30 and 50 percent, respectively, of all CBD work trips.

The VRE share also was significantly higher for trips to workplaces in the vicinity of Washington Union Station (approximately 17 percent), which is a difficult location to reach by car and requires an intermediate transfer to reach on the Metrorail Red Line. VRE shares dropped to the 9 percent range for trips to workplaces near L'Enfant and Crystal City, which are reachable directly by Metro for many northern Virginia residents. VRE captured only about 5 to 6 percent of all trips to Alexandria, reflecting that driving to Alexandria is relatively easier than driving into Washington, DC.

The relationship of increasing VRE share to increasing distance from the CBD is assumed to have remained similar to that experienced in 2000, even though overall VRE shares of work trips have increased across-the-board, because commuter rail service tends to be more time and cost-competitive with other transportation modes for longer-distance work trips.



- 18 - MAY 2004



Table 2.3
VRE Share of Work Trips from VRE Origin Catchment Areas to Central Business District Destinations – Year 2000

Destination Zone:

	Union		Crystal	Alex-	Total to 4
Origin Catchment Area	Station	L'Enfant	City	andria	CBD Zones
4 Lorton	7.6%	3.7%	1.3%	0.3%	2.6%
5 Woodbridge	14.9%	6.1%	9.2%	6.0%	8.1%
6 Rippon	8.2%	5.2%	6.5%	7.2%	6.2%
7 Quantico	16.3%	7.9%	12.3%	10.2%	10.6%
8 Brooke	31.9%	19.1%	17.7%	8.3%	18.1%
9 Leeland Road	70.3%	48.1%	39.8%	17.0%	41.4%
10 Fredericksburg	90.0%	4.7%	39.3%	39.5%	35.1%
11 Backlick Road	7.8%	3.3%	1.4%	0.0%	2.7%
12 Rolling Road	0.9%	5.8%	2.1%	0.6%	3.0%
13 Burke Centre	21.9%	15.2%	1.7%	1.0%	8.7%
14 Fairfax Station	20.6%	15.0%	0.4%	0.0%	8.2%
15 Fairfax City	3.5%	1.7%	0.0%	8.8%	2.0%
16 Oakton	0.0%	0.0%	0.0%	0.0%	0.0%
17 Centreville/Chantilly	2.4%	1.1%	1.1%	0.0%	1.2%
18 Clifton	96.0%	32.2%	3.0%	0.0%	22.2%
19 Manassas Park	12.5%	8.7%	8.7%	3.4%	8.7%
20 Manassas	42.7%	33.2%	30.5%	11.7%	31.7%
21 Sudley Manor	12.6%	5.8%	12.8%	15.0%	9.4%
22 Gainesville	17.0%	15.9%	25.7%	26.1%	19.6%
23 Haymarket	18.8%	8.8%	25.7%	14.5%	15.6%
24 South Loudoun	5.2%	1.8%	2.9%	0.0%	2.6%
25 Delaplane/Hume	7.2%	6.3%	1.3%	5.4%	4.2%
26 The Plains	0.0%	5.0%	0.0%	19.5%	3.2%
27 Warrenton/New Balt	15.4%	13.8%	6.5%	0.0%	10.1%
28 Broad Run	51.0%	54.9%	68.1%	42.4%	57.0%
29 Nokesville	90.0%	25.7%	31.4%	0.0%	36.6%
30 Calverton/Bealeton	38.1%	14.8%	13.6%	8.5%	16.3%
Total from VRE Svc. Area	16.8%	8.9%	8.8%	5.6%	9.3%





Projected Ridership Growth Through 2025

In VRE's principal travel market – work trips from the northern Virginia VRE service to the destination zones surrounding the four innermost stations – future increases in ridership will be a function of the combination of two factors:

- Increasing market size, fueled by population growth in the outlying catchment areas and employment growth in the central business district – and also influenced by the level and convenience of rail service offered to the CBD and the specific patterns of land development that occur in the vicinity of rail stations
- Increasing VRE market share, driven by improvements in the level of service offered by VRE, relative to those provided by alternative modes of transportation.

The historical data on trip-making and modal choice patterns for the VRE service area, including small sub-zones within the service area, indicate two ways in which the presence of commuter rail service affects travel patterns. First, those zones that are situated in close proximity to rail stations have a higher-than-average percentage of total work trips going to work destinations within the central business district. Second, VRE's share of total work trips to the central business district is higher for zones in proximity to VRE stations, compared with zones located further away from the station.

Figure 2-4 illustrates the extent to which the number of work trips from VRE catchment areas to CBD destination zones might increase as a result of VRE service being extended to new stations or significantly improved at existing stations where future transit-oriented station area development is proposed or possible.

Reasonable estimates were made of the percentage of workers commuting to downtown jobs and the share of those commuters who would potentially take the train – for selected zones in close proximity to existing or new VRE stations where new or additional future development is possible. These estimates adjust upwards the average percentages that are applied to wider geographic areas in the MWCOG projections and provide an indication of the up-side ridership potential for VRE associated with transit oriented development and the induced demand for travel to the CBD that the presence of a commuter rail link can generate.

These effects represent the high end of the range of possible increased demand and would only be realized at those locations where VRE service is provided or extended, and where a proactive partnership with developers and local jurisdictions results in the development of transit-friendly land uses and densities.

VRE market share – the percentage of work trips attracted to the VRE mode – is a function of the relative convenience and attractiveness of VRE relative to other transportation modes. Several underlying factors will tend to favor VRE over time, including:

- Increasing highway congestion and limited or no investment in more capacity once the Springfield interchange project is completed, in routes to and from the CBD
- Limited capacity of Metrorail service out of Vienna without major new investment



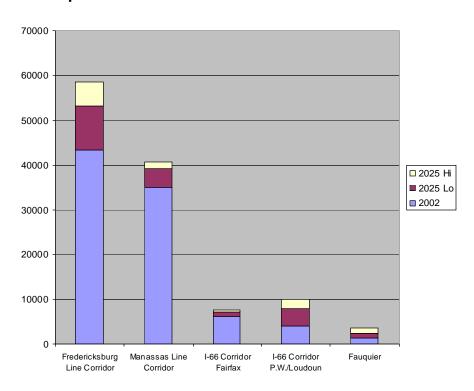
- 20 - MAY 2004



 Limited anticipated future growth in inventory of parking, downtown and at Vienna Metro

Some factors go the other way, such as the capacity boost that the completion of the Springfield interchange will provide, CLRP projects such as I-66 widening, and HOV lane extensions in I-66 corridor and along the Capital Beltway. Most important for VRE's mode share, however, will be the VRE level of service – peak frequency of service and running time – as well as the reliability and predictability of that service for commuters.

Figure 2-4
Total Daily Work Trips to CBD from the VRE Service Area –
Current, Projected 2025 Baseline, and 2025 with Transit-Oriented
Development and VRE Induced Demand



Potential future ridership in the year 2025 was estimated for several alternative service scenarios, including:

- Baseline existing service
- Improved service within core network
- Shorter headways and extended peak operating window
- Zone express service
- Service extension options



- 21 - MAY 2004



- Gainesville—Haymarket, Start-up service to Gainesville
 - Three round trips to Gainesville each day in addition to service to Broad Run. One Broad Run round trip would be diverted to Gainesville and two new trains added.
- o Gainesville-Haymarket, Full Gainesville service
 - Six Round trips to Gainesville, three from Broad Run, 15 minute headways from Manassas, some skip-stop trains.
- Gainesville–Haymarket, Full Haymarket service
 - Extend the Gainesville Service described above to Haymarket
- Fauquier County (extension to Bealeton-Remington area)
 - Gainesville/Haymarket Service as above. Extend the three Broad Run round trips to Bealeton or Remington
- Spotsylvania County (new station at Crossroads site)
 - to provide some relief to Fredericksburg parking and attract more riders from south of Fredericksburg.

Interim year ridership was derived based on selected ridership model runs using the MWCOG interim year trip tables for 2005 and 2015, with results Interpolated for other years and for all other scenarios.

The incremental daily ridership associated with expanding off-peak service also was estimated, including mid-day service (with either bi-hourly or hourly service frequencies) and additional evening trains leaving Washington between 7:30 and 10:30 pm. Potential ridership associated with service on weekends was not explicitly analyzed.

A separate analysis was undertaken to estimate the potential ridership associated with extending selected VRE trains through Washington, DC to destinations in Maryland, which concluded that up to 3,000 daily trips could be added to VRE's ridership totals if run-through service were instituted.

Assessing the potential size of the travel market for VRE service extended to Richmond and Charlottesville was outside the scope of this study, and data on the magnitude of existing and potential future trip-making in these long-distance corridors were unavailable.

The analysis to date has not included estimates of potential reverse commute ridership on VRE to workplaces in the northern Virginia suburbs. On commuter rail systems that provide reasonable reverse commute service, commuter rail shares of the reverse-peak trip market fall in the 1 to 2 percent range. Volumes of riders are small relative the size of the peak direction market and do not drive the level of required investment in rolling stock, although serving this market may require significant additional rail infrastructure and on VRE would most likely trigger the installation of additional station platforms so that trains could serve both directions of travel simultaneously.

The analysis to date has also excluded explicit estimates of ridership associated with trip purposes other than work trips, although the factors in the ridership model that estimate the increases in ridership associated with adding off-peak service are based





on data from the MARC Penn Line and elsewhere-- data that include trips other than work trips.

Airport trips are another potential market that commuter rail can serve. Though VRE will not have a station within convenient walking distance of the terminals at Ronald Reagan National Airport, a relatively convenient transfer to Metrorail at Alexandria could be provided to facilitate airport-related trips, and extension of VRE operations to a bi-directional, all-day long service would make the railroad a more attractive option for air travelers. Subsequent studies will need to quantify the potential magnitude of VRE's share of non-work travel markets such as airport access or travel to special cultural or sporting events in Washington, DC.

Figure 2-5 and Table 2.4 present an amalgamation of these forecasts, organized according to the three scenarios for future VRE growth and investment, which are described later in this report. The three scenarios – targeted growth, aggressive growth and constrained growth – represent the range of potential future strategies that VRE could pursue. Within each scenario, a range of potential future demand is shown. The constrained scenario retains the current train schedule and service territory, although investment in station parking and rolling stock capacity is assumed to be provided at sufficient levels to sustain growth. The targeted and aggressive scenarios increase the level of VRE service over time and extend VRE service in phases – initially in the Gainesville-Haymarket corridor and ultimately to Spotsylvania and Fauquier Counties. Capital investment and service expansion is assumed to occur more rapidly in the aggressive scenario than in the targeted scenario.

Table 2.5 presents the year 2025 market size and VRE share estimates for the work trip market from VRE station catchment areas to central business district destination zones, for each of the three scenarios.



- 23 - MAY 2004



Figure 2-5
Projected VRE Ridership Growth Through 2025

VRE Daily Ridership

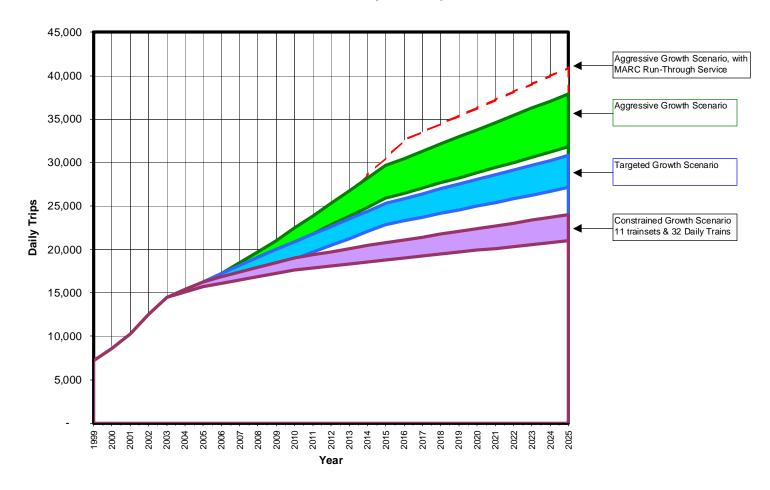


Table 2.4 Estimated Daily VRE Ridership by Scenario

Strategic Plan Scenario		<u>1999</u>	2000	<u>2003</u>	<u>2010</u>	<u>2015</u>	<u>2025</u>
Constrained Growth	Low	7,200	8,600	14,500	17,600	18,800	21,000
	High	7,200	0,000	14,500	19,000	20,800	24,000
Targeted Growth	Low				18,900	22,900	27,100
	High				20,900	25,300	30,800
Aggressive Growth	Low				20,900	25,900	31,800
	High				22,400	29,700	37,900
	High w/ MD				-	30,600	40,900
	Run-Through						



MAY 2004



Table 2.5 CBD Commute Market Size and Estimated VRE Shares in 2025, by Strategic Plan Scenario

		Home-Based Work Trips to CBD	VRE Share of CBD Work Trips	Daily Work Trips via VRE	Daily Total Trips via VRE
Existing Condition*		93,700	15.2%	14,200	14,500
2025 Constrained Growth	Low	117,900	17.5%	20,600	21,000
	High	118,800	19.6%	23,300	24,000
2025 Targeted Growth	Low	119,700	22.1%	26,400	27,100
-	High	124,000	23.6%	29,300	30,800
2025Aggressive Growth	Low	120,800	24.5%	29,600	30,500
	High	127,500	27.8%	35,400	37,900

^{*}Based on 2003 VRE daily ridership and 2001 estimate of CBD work trips.





3. VRE IN THE FUTURE

Using VRE's future market potential as a guide, the strategic planning process has attempted to define a vision for the railroad in the year 2025 – in terms of its physical extent, the number of trains and the type of schedule operated, and its organizational structure.

The market assessment and regional forecasts make clear that demand for VRE's services will continue to grow into the future. The readily-observable current pace of new land development, particularly residential development, in the areas surrounding many of VRE's stations provides strong supporting evidence.

Since the railroad is currently operating at or a little above its practical capacity, VRE either will have to invest in more capacity or start turning away potential customers. In a strong growth environment, maintaining the *status quo* is not a realistic option. If the entities that now fund the VRE – the Federal government, the Commonwealth of Virginia, and the jurisdictions that comprise the NVTC and PRTC – are unable to increase capital and operating support for VRE and sustain it at high enough levels to allow the service to grow to keep up with demand, VRE will be faced with difficult choices:

- Maintain the current operation, managing scarce resources as effectively as possible and making small incremental investments to increase capacity and the quantity of service,
- Raise the fare substantially in an effort to curb the growth in demand and generate sufficient income to preserve a premium quality of service, in effect rationing the service to those willing to pay a premium for it, or
- 3. Find additional sources of funds to support VRE's growth, lessening the financial burden on the VRE's member jurisdictions.

Following the first path will gradually lead to a deterioration in the traditionally high quality of service experienced by VRE passengers, as demand for rail service increases faster than the available supply. Trains would become more crowded with standees, station parking lots would fill up earlier in the morning rush hour, trip times would get longer as the passenger boarding and alighting process at stations takes longer. Reliability and on-time performance would start to decline as the rolling stock and infrastructure age and show the effects of chronically underfunded maintenance and capital renewal. Without the prospect of significant public investment in the betterment of the railroad, VRE's relationship with its host railroads also could become more strained, negatively affecting customer service.

The second path – fare policy – is a tool that VRE can use to help manage both the demand for service and the level of operating subsidy and capital required to support the service. Discussion of the fare and rate of increase of fares is carried out in the context of the annual process of setting the next fiscal year's VRE budget and six-year budget projections. Raising or adjusting fares can be an appropriate tactical response to current financial mandates and directives. Increasing fares, parking fees, and non-transportation revenue could help VRE defray rising costs and help fund a portion of its



ongoing capital needs, while helping to keep required local subsidies as low as possible. At the same time, a significantly higher fare structure would drive the most fare-sensitive customers away from the railroad – which could help ease the rush hour parking and standee problem. In the context of long-range strategic planning, however, discussion of fare policy relates directly to VRE's role and objectives as a public transportation provider. Dramatically increasing the fares that VRE customers pay, relative to inflation and the cost of travel by other modes, will fundamentally change VRE's place in the spectrum of regional transportation choices – tending to make it more of an exclusive or "high end" service than a mode of public transit between the city and suburbs. Though the trips of many VRE riders are subsidized, in part and in some cases entirely by Federal transit subsidy programs, a significant share of VRE's customers do not participate in such programs. In general, as fares rise relative to the cost of other modes, VRE's share of the suburb-to-central business district commuting market will decline. To the extent that a premium-fare VRE remains a viable commuting choice for a diminishing segment of the population working in the CBD, VRE's broad base of support as a regional public transportation service may become undermined and diminished, putting at risk at least some of its current public sources of funding support. Predicting all of the economic and public policy factors affecting VRE's budgeting and finances over a 25 year period is not possible with any precision in the strategic planning process. As a result, fundamental fare policy issues are not directly considered in this document and are left to the annual budget process and subsequent analyses once the VRE Operations Board has established a strategic direction. The financial performance estimates that are presented in Section 9 of this report attempt to cover a range of possible future conditions within which VRE's actual performance might fall.

The third option listed above – seeking partners and additional sources of funds – is a potentially appealing way to broaden the base of support for VRE, spread costs, and recognize its broadening geographic appeal. However, following this path will require VRE to re-think itself and could lead toward a significant change in the transportation mission, geographic coverage, organizational structure, and even the day-to-day management and operation of the VRE. As with fare policy, analysis of such changes is beyond the scope of the Strategic Plan, which focuses on technical issues: the ridership market, railroad operations, and required transportation system investments.

Clearly, difficult policy choices will need to be made by the VRE Board, informed both by the Strategic Plan and by the political and economic climate and other factors that the plan is unable to address definitively. The most appropriate short-term policy may entail some combination of all three options described above. As policy direction is established and conditions change over time, this Strategic Plan will need to be updated and refined – including specific elements such as the scope and timing of capital projects and changes to the VRE train schedule. For the time being – in the Spring of 2004 – the VRE Strategic Plan focuses on answering the question originally asked of VRE staff by the VRE Operations Board: What type and level of service should the VRE provide, and what investments will be required, to meet the VRE region's projected commuter rail demand in the year 2025?

Since VRE's mission is based on customer service, and since the region's overall plans for growth and economic development depend in part upon the ability of public transportation modes to carry an increasing share of rush hour commuter trips across the region, the VRE Strategic Plan is a plan for growth – increasing the quantity and extent of VRE service as the population, employment and economic activity in the





corridors it serves also grow. The Plan identifies a long-range vision and also a short-term action plan that is targeted at actions that VRE and its stakeholders should take to address capacity issues of immediate concern and also to build a foundation upon which future expansion can be undertaken cost-effectively.

What's Possible by 2025?

VRE has the potential to at least double its current ridership by 2025. That implies more trains, longer trains, bigger parking lots and garages at many existing stations, and expansion of VRE to new stations and areas beyond its current service territory.

Maintaining VRE's traditionally strong customer service focus will become increasingly difficult as the size of the system grows, and investment in both infrastructure and equipment will be needed to ensure that operations remain reliable.

Many in the greater Washington region have envisioned a future where commuter rail service is run in a coordinated, integrated fashion, instead of having two entirely separate systems for Virginia and Maryland. This vision includes offering travelers the ability to ride commuter trains from one side of the region to the other. Better integration of VRE and MARC service will help mitigate congestion on some of the most crowded portions of Washington's Metro system and will establish the railroad as a key link in the overall regional transit system.

The increase in peak period service and expansion of VRE service into off-peak hours will require investment in additional railroad infrastructure – to preserve the ability of the freight railroads to meet their own customers' demands for reliable on-time service.

Both the passenger and freight business in the region are growing enough to warrant increased rail service. There is the need to operate passenger and freight trains at the same time of day. Freight trains, therefore, will not be able to avoid sharing the track network with passenger trains. To facilitate shared operations, additional tracks will need to be built at strategic locations to allow train dispatchers to keep the train movements flowing smoothly. These investments in rail capacity will provide wide ranging benefits to multiple constituencies, including:

- Improved through freight capacity for CSX and Norfolk Southern
- Capacity for increased intercity passenger service high-speed rail, and intercity service within Virginia
- Capacity for increased commuter service for Federal government workers and other commuters
- Easier public transportation access to Reagan National Airport
- Faster, more reliable and more cost-effective local freight service for shippers in the region.

All of these beneficiaries should share in the costs of creating the necessary infrastructure.

A realistic target for daily VRE ridership by 2025 lies somewhere between 25,000 and 35,000 trips – or an approximate doubling of current ridership. The range is a wide one, because there are a number of factors that will affect future ridership. Some are



- 28 - MAY 2004

able to be influenced by VRE and its stakeholders, such as fare policy, the pace and extent of capital investment, and decisions that directly affect VRE's operations, capacity and service quality. Many factors external to VRE and beyond its control also can affect both the regional transportation network as well as land development patterns in the corridors served by VRE. These factors include:

- The state of the local and regional economy, with respect to housing development, job creation, and the strength of the central business district
- Local zoning decisions relative to land available for new housing at the extremities of the VRE service area
- The extent of transit oriented development at and around existing and potential new VRE stations
- The ability of VRE to negotiate the necessary railroad operating and access agreements to allow for expansion
- The level to which commuter rail fares are subsidized through Federal or other programs, and the rate of participation among commuters
- The extent to which major investments are made for other transportation modes in the corridors served by VRE, including any further extension of the Metrorail Orange or Blue lines, or the extension of HOV lanes on I-95 and I-66 beyond what is included in the region's current long-range plan.

Recognizing the uncertainties associated with predicting the future, the strategic plan must be flexible enough to allow VRE to be successful no matter how these factors, particularly the external ones, play out over time. A good example is provided by the last bullet point above. Regional transportation investment decisions with respect to Metrorail and regional high-occupancy vehicle (HOV) lanes could yield two significantly different future visions for VRE's role in providing regional commuter service:

- Assuming that HOV lane extensions proceed as planned and that funding limitations and extensive capital needs in other corridors prevent or considerably delay beyond 2025 extension of Metrorail in the I-66 and I-95 corridors, then VRE would become the preferred long-distance regional transit mode in portions of the I-66 and I-95 corridors beyond the reach of the current Metro system.
- 2. Or, if plans were to be advanced to extend Metrorail westward to Centreville and southward to Woodbridge, and HOV lanes also were extended westward to Haymarket and southward into Stafford County, then VRE's long-term share of the commuter market to the central business district would be smaller and more focused on the outer portions of the network.

In both cases, VRE will retain a significant role and ridership base and will serve the market for longer-distance commuting, including territory beyond the direct reach of the Metro. Both cases therefore support the vision of VRE extending its service southward into Fauquier and Spotsylvania counties. The fundamental difference is that, in the second case with extensions of Metro and HOV lanes, the inner portion of the existing Fredericksburg Line and the corridor along I-66 within Prince William County would be





served predominantly by Metro and the HOV lanes, with VRE focusing its service in the other territory it serves, such as Burke Centre, Manassas and Fredericksburg.

In the latter case, at the time when major investments in other modes are made along the inner portions of the VRE network, VRE will be able to redeploy its rolling stock to the fast-growing outer portions of its territory, modify its schedules to provide express commuter rail service to the CBD for these longer-distance trips, and more aggressively pursue expansion beyond its current terminal points. In this way, VRE will be able to make productive use over the long term of the projects that are expected to be constructed and the equipment that will be acquired in the near term.

Capital funds for both highway and transit projects are likely to be severely constrained for the foreseeable future, and the Federal contribution may diminish. Other corridors throughout the region may have higher priorities than the I-95 and I-66 corridors. If Metrorail and HOV extensions are deferred either for lack of funds or in response to priorities elsewhere, VRE is well positioned to offer a cost-effective, fundable option in developing the I-95 and I-66 corridors. In that case, daily VRE ridership at the level of 35,000 daily trips or above is potentially achievable.

How Can We Get There from Here?

VRE faces the same fiscal constraints as all the other transportation providers and agencies in the region. Extensive capital needs within the core network to increase capacity, and a compelling argument for extension of the network to serve the rapidly-developing outer portions of the region, create a significant funding challenge for VRE moving forward.

Recognizing the tradeoffs that exist, and not knowing the extent to which VRE will be able to successfully make the case for increased investment, the Strategic Plan has identified three illustrative scenarios for meeting its demand and realizing its long-range potential, consistent with the vision outlined above. These scenarios are not the only available options, but they show three possible paths that VRE could follow in terms of prioritizing its investments and growth in service. They are intended primarily to illustrate what is possible in terms of VRE system growth at different levels of capital investment and operating support – particularly in the early years through 2009. Shown in Figure 3-1, these scenarios are labeled Targeted Growth, Aggressive Growth and Deferred Growth.

The Targeted Growth scenario represents a middle-of-the-road approach that focuses early investment on core needs and a phased expansion of service in the Gainesville-Haymarket corridor, with additional network expansion in later years. It has formed the baseline for development of the Strategic Plan assumptions about facility, infrastructure and fleet requirements, and the phasing of capital projects and improvements to the VRE operating plan. It is driven primarily by the market for commuter travel, aimed at VRE increasing over time its share of work trips from its catchment areas to the central business district, while facilitating VRE's ability to influence patterns of new development in the vicinity of existing and new stations in a way that reinforces the advantages of travel by rail. It requires a significant increase in the level of capital and operating funding support for VRE but ramps up that investment over time.

The Aggressive Growth scenario represents a more unconstrained approach to meeting VRE's market potential. By investing in service extensions earlier than in the



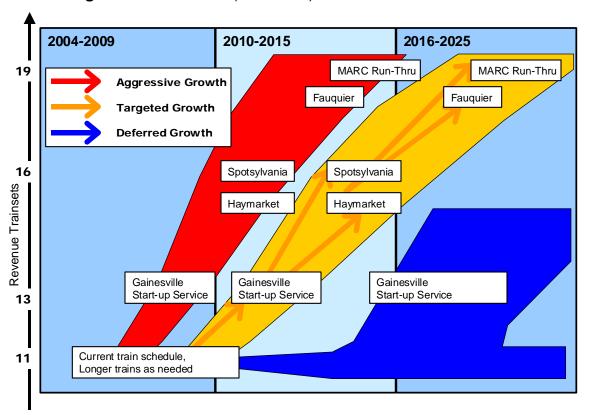
- 30 - MAY 2004



targeted scenario, this scenario has a greater potential to induce future increases in travel demand to and from the CBD and to facilitate transit-oriented development at multiple locations along the VRE network. It front-loads much of the required capital investment, simultaneously addressing core needs and expansion opportunities, which may not be realistic given the region's current fiscal environment.

The third scenario, Deferred Growth, is more responsive to the financial constraints that currently affect transportation investment in the region. It limits early investment to core needs and both expends capital funds and improves VRE service at a slower pace than either of the other two scenarios. As a result, the VRE network would be capacity-constrained through the early years of the plan, with demand for service exceeding the supply that VRE is able to offer. Within this scenario, VRE could choose to use pricing strategies (involving rail fares and potentially station parking fees) to dampen the rate of ridership growth, keeping demand for rail service in line with the supply that VRE can deliver, and generating a higher level of per capita revenue that could be used to partially fund ongoing capital investment and minimize local subsidies. With much of the planned suburban growth occurring before VRE has the ability to serve it well, this scenario is not likely to generate induced demand or transitoriented development to the extent that either of the other two scenarios can – so the long-term level of VRE ridership and market share will be lower.

Figure 3-1
VRE Strategic Plan Scenarios (Illustrative)







All three scenarios allow for VRE to monitor the progress and performance of its initial investments – and adjust the pace of growth and development thereafter either upward or downward in response to demand pressures, external economic or political factors, and funding availability.

What's Achievable by 2010?

In the near term, VRE can support any of the three possible growth scenarios by adopting an investment strategy and taking actions with three major thrusts:

- Build a strong core network foundation, focused on maintaining the highest level of service quality and providing sufficient capacity for growth in areas where VRE currently provides service
- Extend and/or increase VRE service within the jurisdictional limits of NVTC and PRTC, in response to a growing commuter market
- Establish strategic partnerships to tap new sources of funds, encourage railfriendly development, and enable VRE to serve markets beyond its traditional boundaries.

Build a strong core network foundation.

VRE and its stakeholders can take several actions in the short term to set it on a course for growth that is consistent with the potential futures outlined above, focusing on the territory covered by the two governing commissions and making decisions and taking actions that are under VRE's control.

The required near-term investments in rolling stock, suburban station parking, CBD station capacity, and train storage and maintenance facilities are the same regardless of the vision of the future. Decisions about whether or not VRE should aim for the high end of its projected range of demand or aim more for a middle-of-the-road outcome can be deferred until after core needs are met and do not need to be made now.

Extend and increase VRE service within NVTC/PRTC territory.

Strong market potential exists for extension of VRE service within the VRE's existing territory, including:

- More frequent service in the peak periods
- Longer peak windows (earlier morning trains, earlier and later evening trains)
- Faster run times, taking advantage of investments in rail system capacity, basic rail infrastructure and more efficient passenger downtown station configurations, and including introduction of peak express service from the outlying portions of the network
- Increased off-peak service, including mid-day, evening and eventually weekends.

In order to meet growing demand in western Prince William County VRE should consider extending service within Prince William County to Gainesville and eventually Haymarket (once the US 29/I-66 interchange project is completed). New stations



- 32 - MAY 2004



should be implemented where warranted by local development and opportunities to improve regional park and ride access.

Establish strategic partnerships.

VRE should consider seeking partnerships with entities that can help it achieve its long-range vision, including:

- The freight railroads (Norfolk Southern and CSX)
- Amtrak
- The Commonwealth of Virginia
- The State of Maryland, District of Columbia, and the Federal government
- Coalitions and Groups that Support and advocate for investment in the regional railroad system
- Counties and municipalities
- Developers, employers and landowners.

Potential goals of these partnerships should be to:

- increase the level of funding available to VRE or to help VRE tap into new or non-traditional sources of funding
- encourage development that creates or reinforces travel markets that VRE can serve well
- enable VRE to productively serve markets outside its traditional territory.

In partnership with others, VRE can then take steps towards extending service to Gainesville/Haymarket and other projects such as extending service into Fauquier and Spotsylvania Counties, instituting run-through service with MARC at Washington, and perhaps expanding VRE's role in serving the longer-distance travel markets in the Washington-Richmond and Washington-Charlottesville corridors. The costs and benefits of many of these projects are discussed later in this plan.

4. CORE NETWORK NEEDS

The principal short-term needs for VRE to keep pace with its growth are in the areas of station parking, rolling stock and train storage capacity at Washington, DC. Capital investments must be made in each of these core areas together, as part of a coordinated program, in order for VRE to continue satisfying the demand for commuter rail service. Under-investing in any one facet of the core network will create a capacity constraint that could render other elements of the system less than fully usable. For instance, new rail cars can only be operated if there is space to store them mid-day in Washington. They will be filled with passengers only to the extent that parking and other modes of station access can be expanded to accommodate additional commuters.



- 33 - MAY 2004



In addition to the parking, fleet and storage needs identified in Phase 1, VRE will need to invest in fleet maintenance facilities, because the existing facilities in Washington do not have sufficient capacity to continue to satisfy VRE's needs over the long term, as the size of the fleet grows and mandated fleet maintenance requirements increase.

At a minimum, to maintain its high levels of service quality and preserve or increase its share of the journey-to-work travel market in the corridors it serves, VRE must continue to invest in critical core facilities. These investments are the bedrock upon which the future growth and expansion of VRE service can be built. Promoting expansion without satisfying core needs would be counterproductive — an inefficient use of scarce resources, as well as potentially damaging to VRE's overall quality of service.

Core network projects will tend to be the most cost-effective investments for VRE to make. There also will be relatively little risk that investments in the core network made in the short term to support projected demand through 2010 will be rendered obsolete in the future either by changes in demand or improvements or expansion of other transportation modes and facilities in the corridors served by VRE.

Core network needs for VRE are summarized below for the following categories of investments:

- Existing suburban stations
- New Suburban Stations
- CBD Stations
- Rolling Stock
- Storage Yards and Maintenance Facilities
- Rail Infrastructure.

Existing Suburban Stations

Keeping up with the growth in demand for parking and access is the greatest challenge currently facing VRE at its 14 suburban stations. VRE has stepped up to this challenge by working in partnership with the local jurisdictions, as well as with station area landowners, to increase parking capacity in a way that is consistent with the character of local communities, is environmentally sound and supports station area development plans and opportunities.

For the foreseeable future, VRE's capital program will need to include projects to expand parking at existing VRE stations. As the readily available land fills up, these projects will become more difficult and expensive. An increasing percentage of VRE's station parking needs will need to be accommodated in parking structures, which typically cost about three times as much per space as surface parking. Where station area development is occurring or is possible, VRE should seek to partner with developers and the local jurisdictions to enable station-area transit oriented development (TOD), which can boost the size of VRE's travel market and create development value that can be tapped to help offset the construction cost of additional station parking. In addition, TOD facilitates and encourages the use of non-automobile modes of access to rail stations, such as walking or bicycling. Lorton is an example of where this approach has been implemented successfully. Rippon, Brooke and





Backlick Road are stations where joint development opportunities have been the subject of preliminary discussions. Future potential also exists at stations such as Woodbridge, Leeland Road... Manassas Park, , and Broad Run.

At all stations, alternatives to the single-occupant automobiles and the parking demand they generate, must be accommodated and encouraged where possible. These other modes may include walking, cycling, kiss-and-ride, buses and paratransit vans. Each of these modes, when present, needs to be accommodated in the design of a station and the access to it through the surrounding neighborhood. Since each transportation mode has specific circulation and operational requirements, individual modes must be carefully addressed in the station and parking lot design process. In all cases, station designs shall promote safety, minimize conflicts between modes, and ensure accessibility for persons with disabilities.

Parking is not the only capital need at stations, however. As VRE ridership grows, so will train lengths – even if VRE increases the number of trains operated. Based on the projected future demand, maximum train lengths (known as "consists") are expected to grow from six cars today to eight by 2010 and to as many as nine or ten in the 2015 to 2025 timeframe. This will require lengthening platforms and canopies at stations. Based on the Phase I Strategic Plan, the current capital program provides for this need on an ongoing annual basis.

As a new-start commuter rail system looking to minimize capital costs, VRE elected early on to build platforms and most of its parking lots on one side of the right-of-way. As ridership builds and the number of trains increases, this configuration will constrain capacity and limit the ability of VRE to meet its goals for reliability and maximize its market potential. Putting additional platforms on the opposite side of the tracks will be a costly proposition, however, since grade-separated pedestrian access from one side of the right-of-way to the other also will be required.

On the Fredericksburg Line, off-side platforms already exist or are planned at four of the eight stations. So, universal access to both main tracks can be achieved by adding platforms and building grade-separated pedestrian crossings at the remaining four stations: Lorton, Rippon, Brooke and Leeland Road. The estimated capital cost of the off-side platform projects at these stations is approximately \$18 million. Completing these projects relatively soon in the capital program could be a cost-effective near-term option for increasing railroad capacity and improving service reliability. Additional mainline tracks will still be required over the long-term. Any future station improvement projects should allow for the future addition of a third mainline track wherever possible...

Compared to the costs of building new rail infrastructure, installing off-side station platforms can be a cost-effective solution. An ADA-compliant platform connected across the tracks by an overpass or underpass has an order of magnitude cost of between \$2 and \$5 million, depending upon local conditions. Building a mile of new track, or installing a new interlocking with universal crossovers to enable dispatchers to route trains to any available track, fall within the same general price range.

On the Manassas Line, only the Manassas station has a platform on both main tracks. For VRE to have access to both tracks along the entire line, platforms and grade-separated pedestrian access would need to be constructed at Backlick Road, Rolling Road, Burke Centre and Manassas Park. The estimated cost of the off-side platform projects at these stations is approximately \$17 million or a little under \$6 million each on average. This line has less freight traffic than the Fredericksburg Line, so the



- 35 - MAY 2004



decision to add the off-side platforms would be driven by VRE service objectives and the improved reliability of the operation in the event of a delay or blockage along the one track that currently has VRE platforms.

The ability of VRE's ridership forecasting model to forecast passenger boardings and parking demand at each individual station out to 2025 is limited. The available ridership estimation tools give a good picture of projected demand for the system as a whole and at the branch line level, but they become considerably less precise at the individual station level. Nevertheless, a look at growth trends and the range of future potential utilization at individual stations is appropriate as part of the overall strategic plan.

BY 2025, a total of 6,000 to 8,000 parking spaces will be needed on the Fredericksburg Line, and between 6,000 and 9,000 will be needed on the Manassas Line. Table 4.1.1 summarizes the range of anticipated future parking space requirements at each existing VRE station. A range of values is provided for two horizon years, 2010 and 2025. The range of projected demand covers the three strategic investment scenarios. In addition, parking demand will be affected by the timing and extent of parking expansion at adjacent stations, and the possible implementation of new stations or line extensions. The table also shows the existing inventory of parking at each station, and the capacity of each station's parking lot(s) once currently funded or otherwise committed projects have been completed.

Table 4.1.1 VRE System Station Parking Requirements Through 2025 – Existing Service Territory

	PARKIN	G SUPPLY	PARKING DEMAND			
	2004	Committed	Demand	Demand	Demand	Demand
		by	Low	High	Low	High
	<u>Spaces</u>	<u>2010</u>	<u>2010</u>	<u>2010</u>	<u>2025</u>	2025
FREDERICKSBURG LINE	<u> </u>					
Existing Stations						
Fredericksburg	923	923	850	1,050	950	1,250
Leeland Rd.	652	652	600	850	800	1,100
Brooke	300	500	400	550	650	1,000
Quantico	258	258	240	300	260	400
Rippon	600	600	550	900	850	1,300
Woodbridge	588	738	850	1,020	1,250	1,550
Lorton	250	250	320	400	450	600
Franconia-Springfield	200	200	200	200	200	200
Fredericksburg Line Total	3,771	4,121	4,010	5,270	5,410	7,400
MANASSAS LINE						
Existing Stations						
Broad Run	696	696	600	1,000	800	1,150
Manassas	374	694	500	600	650	850
Manassas Pk	677	677	600	725	780	1,100
Burke Centre	543	1,043	750	880	950	1,460
Rolling Rd.	370	370	370	600	370	670
Backlick	200	200	175	230	250	370
Manassas Line Total	2,860	3,680	2,995	4,035	3,800	5,600
SYSTEM TOTAL	6,631	7,801	7,005	9,305	9,210	13,000





A brief review of each of the 14 existing suburban stations follows. For each station where VRE parking is provided, a graph is provided, comparing parking demand with the available or potential supply – for the current (2004) situation as well as projections for 2010 and 2025. Currently funded or planned parking projects are shown, along with the anticipated parking expansion potential at each location, which depends upon local site conditions and estimated 7property availability. The range of projected demand covers the three strategic investment scenarios. In addition, parking demand will be affected by the timing and extent of parking expansion at adjacent stations, and the possible implementation of new stations or line extensions.



- 37 - MAY 2004



Fredericksburg Line

Franconia/Springfield

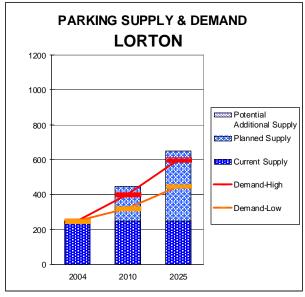
This is the terminal station of the Metrorail Blue Line. A large majority of the users of this station take Metro, which provides less expensive and more frequent transit service to the central business district. VRE provides a more convenient alternative for a relatively small number of passengers — mainly those going to the area of Washington, DC surrounding Union Station or transferring to MARC trains for trips to Maryland.

The existing station has two side platforms; both are accessible from Metrorail and the Metro parking garage and bus bays via an overhead concourse equipped with elevators and stairs. The east side platform is much more heavily used by VRE than the west side platform. Future plans call for a three-track configuration of the railroad at this location. In the current state of plans, the platform adjoining number 2 track becomes a center platform serving tracks number 1 and 2 and VRE would have access to all three tracks.

Lorton

Lorton is a success story as a commuter rail station for transit-oriented development. It has been identified as a model that can be applied to other stations to develop and market land in a way that encourages use of VRE, creates value for land developers, reduces public capital investment requirements by having developers share in the costs of building and expanding station facilities, and helps implement County land use plans that emphasize smart growth and efficient development.

This station was part of the original VRE system plan but was implemented later so as to coordinate with extensive residential development of large tracts of land surrounding the station site. The station platform and facilities were constructed by VRE, and the construction and expansion over time



of the station parking has been the responsibility of the developer of the adjoining residential community. The parking lot has been expanded once and now holds 250 cars. The developer is committed to building additional parking at the station as additional residential units are completed. A village center with retail and community facilities is being developed immediately adjacent to the station. The development plan has concentrated the densest residential concentrations closest to the rail station to maximize the potential for pedestrian access, and the developer has indicated that the convenient VRE access to Washington, DC, Crystal City and Alexandria has been a strong selling point for potential home buyers.

Although the development closest to the station has not been built yet, survey numbers indicate that eight percent of the riders access this station by walking, as opposed to three percent who walk system-wide. This supports the idea that transit-oriented development will work at other existing and new stations along the system, when it is



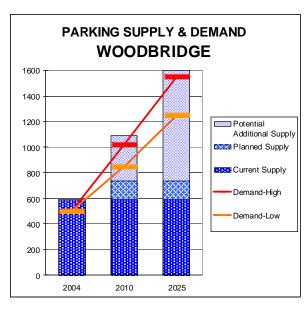
- 38 - MAY 2004



compatible with local comprehensive plans. 400 spaces exist today at Lorton. Can you give a range for the projected # of spaces needed under each scenario that corresponds with the chart?

Woodbridge

The station at Woodbridge has VRE's sole existing parking garage and the most elaborate new station building. It is VRE's third busiest suburban station (after Fredericksburg and Broad Run). Woodbridge draws customers from a wide geographic area, because of its excellent regional highway access. It is the VRE station on the Fredericksburg Line located closest to both US Route 1 and Interstate 95. VDOT has plans to make access to Woodbridge station even better, by extending Route 123 across Route 1 and the railroad via a new bridge, with more direct access to the station parking lots. In addition, a second passenger platform will be added on the west side of the 2track right-of-way.

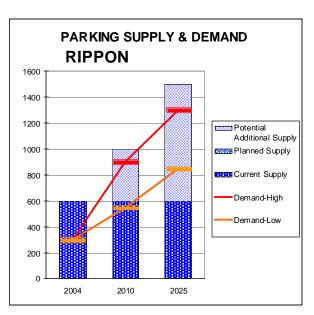


At Woodbridge, a 150-space surface parking lot is

being developed adjacent to the existing parking garage, scheduled for completion in 2004. This will provide an interim solution for the lack of parking at Woodbridge, but demand is expected to outstrip the capacity of this lot within a few years. Plans call for further parking expansion at this station by constructing a 500-space parking structure similar to and adjacent to the existing garage. With the second garage in place, the inventory of parking spaces at Woodbridge will be between 1,100 and 1,200 spaces.

Rippon

This station has seen explosive growth over the past couple of years. When the developer of the land adjacent to station opened up a direct access road to the station in the summer of 2002, the driving route into the station became much less circuitous, and the 300-space surface parking lot quickly filled to capacity. roadway now runs from the station site to Route 1 and an interchange with I-95. The developer of the adjacent homes and townhouses agreed to lease VRE a new temporary 320-space surface lot adjacent to the existing lot, which opened in March 2004.. Over the long term, however, construction of a parking garage will be warranted at this location, despite its unstable soil conditions and relatively high cost of construction.



There is strong potential for transit-oriented development at Rippon, with the developer of adjacent residential properties expressing interest in creating higher-density



- 39 - MAY 2004

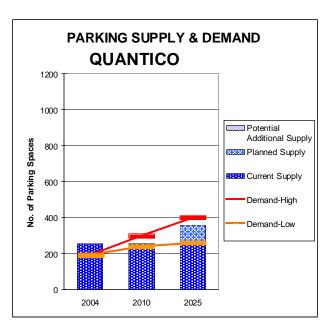


residential development within walking distance of the VRE station and helping to increase the inventory of commuter parking at the station.

Rippon has been identified in past studies as a potential location at which to turn back inner zone VRE trains, at such time as demand warrants and capacity investment enables the operation of zone express service on the Fredericksburg Line. As at Franconia-Springfield, a third mainline track would be added outboard of the existing platform track, with the existing side platform converted to an island platform. A second side platform on the most westerly track (Track 3) would be added to give VRE universal access to all three tracks. VRE trains would stop and change direction using the center track, enabling through traffic to use the outer tracks in either direction while the train is laying up at the station.

Quantico

Quantico is one of the few former stations of the RF&P Railroad that VRE currently uses. station is located within the town of Quantico, which is totally surrounded by the Marine Corps base. The only external vehicular access to both the town and station is through one of the base's checkpoints, which can result in driving delays during periods of high alert making the drive from the surrounding areas to the station more unpredictable than would otherwise be the case. A significant share of the VRE passengers who live off-base but in the vicinity of Quantico actually use the stations either upstream or downstream (Brooke and Rippon), because of easier and more predictable highway access. On the other hand, a limited number of Amtrak regional trains stop at Quantico each day, offering an "express" service



to Washington for VRE monthly and weekly ticket holders.

VRE's plans call for rehabilitation of the existing historic station building. No significant increase in the station's limited parking capacity is contemplated, however. The station has platforms on both main tracks, but virtually all VRE trains use only the east side platform and track.

Brooke

Situated to the east of Stafford, near the Potomac River, Brooke Station is located within a small hamlet, in an area that is zoned primarily for low-density residential use. Over the years, it has had a reputation as a sleepy, out-of-the-way station, but over the past year its 300-space parking lot has become 100 percent full.

Access to the station from I-95 and Route 1 is relatively direct, but the station is over three miles from Route 1. Part of the access is via an improved arterial roadway. The remainder is via relatively narrow two-lane rural roads. Even so, VRE riders drive to this station from a wide area of the region, including many riders who live in Aquia Harbour, Garrisonville and other communities along and to the west of US 1 and I-95.

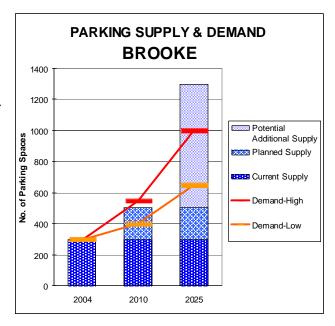


- 40 - MAY 2004



Stafford County has indicated that it is planning to eventually extend the improved arterial roadway to the railroad, extend water and sewer service and develop a neighborhood village center at Brooke. This opens up the potential for even better highway access to the VRE station and offers the future possibility of higher-density transit-oriented development in the immediate station vicinity. The commuter rail station can become the focal point of the village center development.

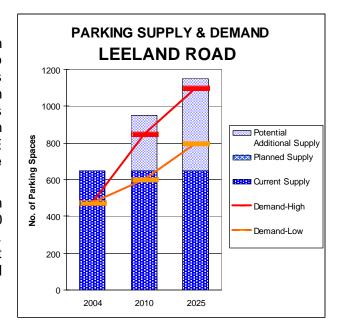
However, this kind of development is not imminent, and the parking capacity at Brooke should be expanded immediately. Several parcels of land adjacent to the station are potentially available for expansion of station parking and also could be part of a future village center and transit-oriented development plan.



Leeland Road

Leeland Road is the other VRE station within Stafford County. Situated closer to Fredericksburg, the area around the station has seen more intense residential development than the area around Brooke. The station draws riders from the increasingly built-up northern edges of Fredericksburg and is the easiest VRE station to reach for commuters from King George County to the east.

The original surface parking lot has been expanded once, and its current capacity of 650 spaces is sufficient to handle the demand. However, over the next decade, the current parking lot will reach capacity and additional expansion will be required.

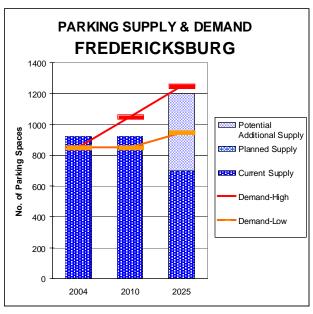




- 41 - MAY 2004

Fredericksburg

Fredericksburg Station, like Quantico, is an original station on the RF&P Railroad and is situated at one end of Fredericksburg's historic downtown. The railroad is elevated as it crosses the Rappahannock River and passes through town, and there are two side platforms with stair and elevator access to street level. The historic station building is now a restaurant. Parking is scattered among several urban sites in the station vicinity, with the newest lots located several city blocks from the station. The total inventory of available parking space is just shy of 1,000 spaces, including parking lots leased by VRE on a short-term basis. The parking at Fredericksburg is heavily utilized.



Many riders using Fredericksburg Station live in Spotsylvania County, with lesser numbers coming from Caroline County and King George County as well. Future parking demand at Fredericksburg is uncertain and depends upon whether or not a new VRE station is built in Spotsylvania County. Such a station has been discussed between VRE and Spotsylvania County officials, and the most likely site for such a station has been identified in consultation with the property owner, but a decision about whether to build this station, and if so, when, has not yet been made. This potential project is discussed in greater detail in the "Potential Network Expansion" section of this report.

If a new Spotsylvania station is built, the existing parking at Fredericksburg will be sufficient over the long term. If the Spotsylvania station is not built or its implementation is deferred for an extended period of time, then parking demand at Fredericksburg will rise above the current supply. In that case, either a parking structure would have to be constructed near the train station in Fredericksburg.



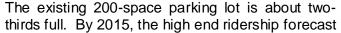
- **42** - MAY 2004



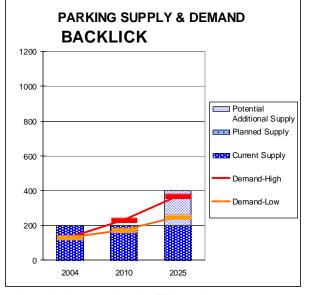
Manassas Line

Backlick Road

Backlick Road is the VRE origination station situated closest to the Washington Beltway and the central business district. It is situated in the part of VRE's service territory where a high share of commuters from the surrounding area work within the central business districts served by VRE, but only a very small share of those trips currently use VRE, because automobile drive times are relatively short and both Metro rail and bus routes offer other public transportation choices for these commuters. A relatively small swing in the VRE share percentage – driven either by traffic congestion or changes in rail service – can have a significant effect on ridership over time.

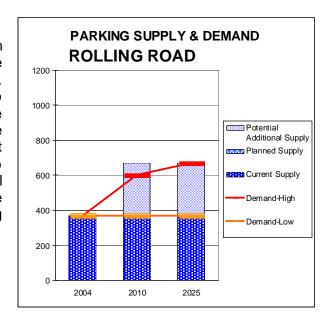


shows current parking capacity being filled and expansion being required. There is a potential development project for the immediate station vicinity that offers the possibility for transit-oriented development and could offer the possibility for future parking expansion, perhaps through construction of a parking deck above a portion of the existing surface lot. There is also a possibility for joint development at this location. Alternative modes of access to this station should also be considered, as the zoning around the station makes parking expansion difficult.



Rolling Road

The Rolling Road station sits amidst an established residential area. Its 370-space surface parking lot is filled to capacity on a daily basis. Fairfax County has commissioned a study to explore alternatives for expanding parking at the Burke Centre and Rolling Road stations on the Manassas Line. This study has concluded that Rolling Road is a difficult location at which to expand parking, given the proximity of residential areas, and local concerns that a parking structure would be incompatible with the surrounding neighborhood.



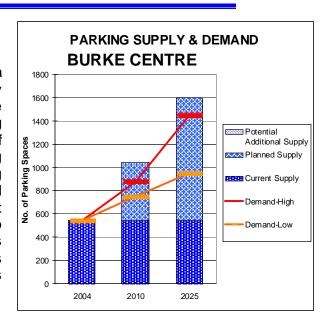


- 43 - MAY 2004



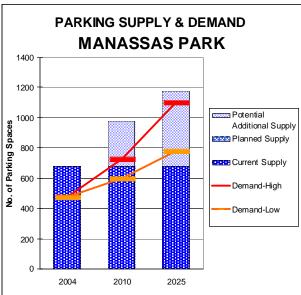
Burke Centre

Burke Centre Station is located in the middle of a relatively densely-developed residential community with a significant volume of commuters to the central business district. The 543-space existing parking lot fills to capacity well before the end of the morning peak. The Fairfax County parking study determined that construction of a parking garage at Burke Centre is feasible and could yield a total of approximately 1,600 parking spaces at the station, which is estimated to be sufficient to meet projected long-range needs. Fairfax County is currently operating a neighborhood feeder bus network that is coordinated with VRE's schedules and offers alternatives to the drive-and-park mode.



Manassas Park

VRE customers drive from a relatively wide area to reach Manassas Park, which contrasts with the relatively compact catchment areas for Burke Centre and Rolling Road. The surface parking lot at Manassas Park was recently doubled in size to approximately 680 spaces, and the platform has been extended to provide a direct pedestrian connection to the new parking lot, which already is more than a third full on most days. Based on projected residential development and population growth in the area, demand for parking is expected to exceed the capacity of the current facility by 2015. No plans to expand parking further at the been proposed at this station have additional surface Opportunities for contiguous to the existing lot are limited based on site topography and local development plans. A



parking deck could be considered in the future, or additional surface parking could be contemplated on the north side of the tracks at such time as the station is expanded to provide platforms on both main tracks.



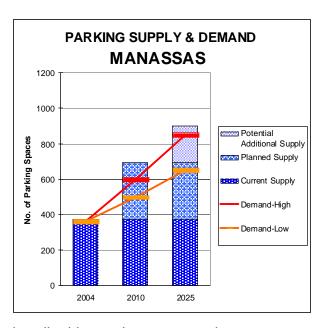
- 44 - MAY 2004



Manassas

The existing station sits in the heart of the downtown area of the City of Manassas. It includes an historic station building and is the only station on this line with platforms on both main tracks. The platforms are sandwiched in between multiple street grade crossings. Pedestrians looking to cross the tracks do so at one of the grade crossings. Commuter parking is fragmented among several lots.

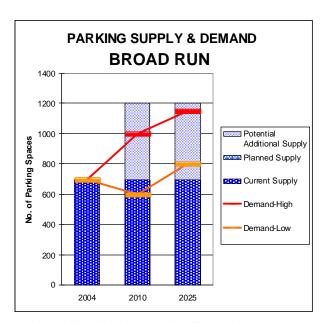
At Manassas, the city has selected a site for a new parking structure, which is currently under design and which will add approximately 300 spaces, immediately adjacent to the station. There are no current plans for additional parking expansion. The existing station at Broad Run and potential new stations such as Sudley Manor and



Gainesville on the proposed line to Haymarket (as described in a subsequent section of this report) could provide some relief of parking demand at both Manassas and Manassas Park.

Broad Run/Airport

Broad Run is VRE's second most heavily-used suburban station. The surface parking lot was recently doubled in size from 300 to 600 spaces. and the larger lot is now completely full. Broad Run is the VRE station closest to the rapidly developing residential corridor along Linton Hall Road in Prince William County. The newlyopened Route 234 Bypass provides relatively fast regional highway access to the area from the north and south, and there are a significant and growing number of VRE commuters who come from Fauguier County and drive to the station at Broad Run. The VRE origin scatter diagram (Map 2) shows the relatively wide area served by this station.



Parking expansion projects are underway and will

add up to 250 spaces. Over the longer-term, however, the ridership demand at Broad Run will be a function of VRE's plans for extending service. An extension of VRE either in the direction of Gainesville and Haymarket or into Fauquier County would divert riders from Broad Run, negating the need for a larger parking lot. In that case, the existing parking lot would have sufficient capacity to accommodate projected demand through 2025.



- 45 - MAY 2004



New Suburban Stations

New commuter rail stations will also help relieve parking constraints at nearby adjacent stations where expansion of parking is not possible or very expensive. New stations also should be considered where they can generate new ridership or satisfy markets that are not well served by existing stations. One potential station, Cherry Hill, meets these criteria and is described below.

However, new stations should not be built indiscriminately. They add to the running time for passengers who board "upstream" of the new station – making the railroad marginally less time-competitive relative to other transportation modes in the same corridor. Adding station stops also decreases the average speed of commuter trains relative to other non-stop trains that also are operating on the rail network, such as Amtrak regional trains or high-priority intermodal freight trains. Wider discrepancies in average speeds make it more difficult for train dispatchers to operate mixed traffic on a busy main line. Consequently, the owners of the rail lines (CSX and NS) generally do not favor the introduction of new commuter stations on their main lines without also simultaneously addressing line capacity needs.

The advantages of building a new intermediate station generally outweigh the disadvantages when the station will allow commuter rail to grow the business by at least 200 or 300 morning boardings, can be constructed with less capital expense than modifications to existing stations and parking facilities, and where there is either significant transit-oriented development potential or regional highway access that is superior to existing stations – provided that sufficient rolling stock is able to be obtained to accommodate the projected growth in ridership.

Cherry Hill

Cherry Hill is located in Prince William County, on the Fredericksburg Line between Rippon and Quantico, on a broad peninsula of land between Powells Creek and Quantico Creek, to the east of Dumfries. The Cherry Hill area has relatively low densities compared to nearby areas, but there are plans for extensive development, including several thousand new residential dwelling units, and a proffer agreement for a new VRE station with surface parking. A station at this location, in addition to serving the immediate neighborhood, would help relieve the heavy demand for parking at Rippon and offer convenient access to VRE from the Dumfries area along U.S. Route 1.

The station site and parking would sit on a bluff overlooking the rail line. To reach the track most commonly used by VRE trains, a bridge across the right of way would need to be built, with a stair and elevator down to the platform, similar to what exists today at Rippon. The station also includes provision for the construction of a second platform on the west side main track, with a ramp or second elevator, to increase the railroad's operating flexibility and enable future bi-directional VRE operations.

Based on the MWCOG travel data, Cherry Hill would serve a base number of 300 to 400 morning boardings. When the potential for transit-oriented development and VRE induced demand effects are taken into consideration, ridership by 2025 in the range of 400 to 800 boardings is possible. Initial parking of 200 to 300 spaces will be sufficient for the short term, allowing for potential future expansion to a 600 space lot.





The estimated cost to construct this station is in the \$6.5 to \$9.5 million range, depending upon the extent of parking provided and including the construction of two platforms, a pedestrian bridge and associated facilities.

Other Potential New Stations

Other potential new stations were considered but are not recommended in the Strategic Plan for near term action, primarily because: (1) they do not appear to be able to generate sufficient incremental VRE ridership demand to offset their implementation cost and the impact of adding a stop on journey times for riders from "upstream" stations, or (2) local impacts and issues associated with new station development have not yet been fully articulated and analyzed. In all cases, planning for new commuter rail stations must be a cooperative partnership among local municipalities, affected communities, and the VRE.

CBD Stations

VRE's "downtown" stations include the four stations where a high majority of its riders disembark in the morning and board their trains in the evening: Washington Union Station, L'Enfant, Crystal City and Alexandria. As with the rest of the system, these stations were designed originally to handle a passenger load less than VRE carries today. As VRE ridership grows, these stations will no longer be able to provide VRE passengers with an acceptable quality of service, unless investment is made to upgrade them and increase their capacity. In addition, improvements at these locations would be required if VRE and MARC decide to pursue run-through service. Improvements at all four stations should be made by 2010 to facilitate overall ridership growth. The projects described below are incremental in the current capital program and are assumed in the strategic plan to be implemented in the first six-year phase of capital investments.

Washington Union Station

Union Station serves MARC and Amtrak in addition to VRE and has a total of 20 usable platform tracks, 14 on the upper level and six on the lower level. Only the lower level tracks are accessible to VRE trains going to and from northern Virginia. VRE now generally uses a single island platform on the lower level of Union Station. In the morning, VRE trains discharge their passengers and then proceed to the Coach Yard for storage during the mid-day (except for the two Manassas Line trains that turn at the platform and return to Virginia for second trips and then end up eventually at the Coach Yard). The Fredericksburg and Manassas Line trains are spaced sufficiently apart so that it is rare for two VRE trains to be occupying a platform track simultaneously. This will change as VRE ridership grows and VRE adds new peak trains and shortens its peak headways.

To accommodate future growth, commuter rail services may require as many as two island platforms and four station tracks on the lower level during the morning and evening peak periods. This would allow for both peak direction and reverse-peak trains – with reverse-peak service provided either by VRE trains turning at the platform at Union Station or by MARC trains running through to Virginia. Amtrak also uses the



- 47 - MAY 2004



lower level platforms for its regional and long distance services that run through Washington, as well as for some Northeast Corridor trains that originate or terminate in Washington. And, Amtrak uses those tracks in the station area for changing between electric and diesel locomotives on some of its through trains — a maneuver that requires the use of multiple tracks and a station dwell time of 20 minutes or more.

The limited capacity of the lower level will need to be preserved and allocated carefully in the future to accommodate planned increases in VRE, MARC and intercity passenger services. Capital investment in both station facilities and rail infrastructure can help stretch the capacity of the lower level to its maximum. Adding new platform tracks to the lower level probably is not possible given the existing physical constraints.

The air rights above the platform area at Union Station were recently sold to a developer who is looking to construct a large office development atop the station on a new deck structure one level above the track/platform level. The project, called Burnham Place, will result in 8,500 to 10,000 additional workers at the site. The project intends to reconstruct and greatly improve the passenger concourse above the lower level platforms used by VRE, to provide better passenger loading, improved connectivity between the various modes at Union Station, centralized ticketing, and enhanced security. The project will include new elevators, escalators and stairs to the platforms, including the platforms on the station's lower level used by VRE.

The Burnham Place project will provide good pedestrian connections to the north of Union Station, which is a district slated for extensive new commercial development in the near future. Ideally, this project also will be able to make more convenient the pedestrian access between the lower level concourse and the Metro Red Line station, a need that must be met for MARC run-through service to proceed. VRE will need to participate actively in the development and monitoring of this project to ensure that it satisfies VRE's requirements. Because the design has not yet been finalized, the VRE Strategic Plan cost projections include \$5 million in the near term for additional VRE station improvements at Union Station (in 2003 dollars), which could cover ticket vending equipment and passenger circulation facilities not provided by the Burnham Place project. The plan also includes a longer-term project line item for future capacity-related needs at an estimated \$10 million. Although specific needs and solutions are as yet undefined, and depend in part on factors beyond VRE's control, it is appropriate for VRE to anticipate ongoing investment in facilities at Washington Terminal over the life of the strategic plan.

The Burnham Place improvements will force the issue of platform height on the lower level of Union Station, because the project will likely construct new platform escalators and elevators. The lower level currently has exclusively low platforms, with the upper level having a mix of high and low platforms. Amtrak long distance intercity trains will most likely continue to use low platforms. Amtrak regional trains could use either low or high platforms, but passengers would be better served by high platforms. Future high-speed intercity trains to Virginia and North Carolina will likely use high-level platforms at Washington Union Station. Any MARC trains using the lower level (including any future run-through trains) will require high platforms — to facilitate efficient boarding and alighting of relatively high volumes of peak passengers while keeping dwell times reasonably short. VRE at present is exclusively a low platform railroad. The Mafersa and Kawasaki coaches can platform at either height, but the Gallery and Sounder cars can only serve a low platform. With VRE likely to remain a low platform railroad, at least in the short term, the Union Station lower level should be



- 48 - MAY 2004



configured to permit low platform boarding for VRE and also to accommodate a possible increase in high-level boarding in the longer-term future.

L'Enfant Station

This is VRE's busiest station, situated on the south side of the Washington, DC business district, and used by almost 40 percent of VRE's customers. Within walking distance of the station is a large office district, where several Federal agencies are headquartered. The VRE station also is a one-block walk from the L'Enfant Plaza Metrorail station, one of the Metrorail's three major downtown transfer stations, with access to four of the five Metrorail lines. The downtown Washington office district is relatively easily accessible from L'Enfant via a transfer to the Metrorail. The majority of VRE riders at L'Enfant transfer to and from the subway. Employment in downtown Washington is projected to continue to grow, while the area in the immediate vicinity of L'Enfant Station is almost fully built-out. So, the subway transfer will become increasingly important and serve a higher percentage of VRE riders in the future.

Improvements to the station in the near term are necessary to accommodate the growing passenger volumes at this station. The railroad in the vicinity of the VRE L'Enfant Station currently is configured with two main tracks – with a side platform for VRE passengers on the northernmost track. The railroad right-of-way, which varies from 4 to 5 tracks wide in this area, can include an enlarged station that incorporates the following elements:

- Center island platform serving two tracks, enabling trains operating in both directions to stop at the station
- Primary street access at Sixth Street, with a secondary access point at Seventh Street
- Improved passenger connections to and from the Metrorail station at L'Enfant Plaza, including:
 - A below-ground passageway beneath Sixth Street providing a direct, weather-protected transfer path between the VRE station and the mezzanine level of the L'Enfant Plaza Metrorail station.
 - Provision for escalators and elevators to facilitate passenger access and meet the standards of the Americans with Disabilities Act (ADA)
 - Sufficient pedestrian circulation capacity to simultaneously handle two full trainloads of passengers

A conceptual design study for the L'Enfant station improvement has been completed and a draft report issued in November, 2001. The island platform would have an average width of 33 ft. (widening to 43 ft. in the center and tapering at the ends to accommodate the alignments of the adjacent tracks). The platform would be 900 feet long, capable of platforming 10-car trains.

The Strategic Plan cost estimates include \$60 million for the station (and the underground connection to Metrorail. An additional \$30 million allowance for possible additional waiting room and headhouse facilities also is included. These additional



- 49 - MAY 2004



facilities would provide retail concessions and amenities for VRE passengers that area appropriate and typical for a major downtown commuter rail terminal.

Crystal City Station

Crystal City is VRE's second busiest station, serving a large office employment center and also offering a transfer to Metrorail (via a two-block walk) for trips to the Pentagon, Rosslyn, Falls Church and the western edge of downtown Washington.

Crystal City Station currently has a single side platform and is located in a two-track stretch of railroad as it approaches the Potomac River crossing. Future plans call for installation of a third track in the near term and eventually a fourth track – to help separate passenger and freight train movements in the area. There are two primary reasons for VRE to consider enlargement, re-construction or even relocation of the Crystal City station:

- 1. To provide an island platform accessible from two passenger tracks
- 2. To provide better pedestrian and local transit connections for VRE passengers.

An island platform station can be constructed without negatively affecting freight capacity once the third track project is built. An island platform will permit passenger trains operating in either direction to stop at the station, which is a requirement for northern Virginia reverse-commute service or for effective Maryland run-through service.

The VRE Crystal City station could be kept at its existing location or moved to a nearby site that perhaps:

- better serves the adjoining office employment districts (existing Crystal City and the proposed new development at Potomac Yard)
- improves connections to pedestrian pathways
- offers convenient transfers between VRE and the proposed Route 1 corridor light rail line and other local transit services
- provides improved pedestrian or connecting transit access to Reagan National Airport.

The project is not currently funded, and the long-term station location and configuration remain to be determined. Wherever the new station is built, a grade-separated pedestrian crossing (either bridge or tunnel) with elevators will be required.

VRE's SAFTEA authorization request includes approximately \$14 million for platform and circulation improvements at Crystal City. The Strategic Plan cost estimates include an allowance for a total of \$50 million, which would cover development of a new station at a different location, with pedestrian connections to adjacent development and links to feeder transit services. Though not an urgent need for VRE, rebuilding the Crystal City station is an important part of the overall plan to increase the railroad's share of work trips from the VRE service are to the central business district.

Alexandria Station

Alexandria is becoming an increasingly important destination station for VRE. In the year 2000, about 8 percent of VRE's peak period riders detrained at Alexandria. That



- 50 - MAY 2004



percentage will increase as extensive new local office development projects are completed, such as the US Patent Office complex.

VRE's station facilities are on the westerly side of the railroad right-of-way. The vast majority of workplace destinations, as well as the Old Town Alexandria cultural district, are located to the east of the station. Most VRE passengers have to walk to the King Street sidewalk and use the street/sidewalk underpass beneath the railroad to reach their desired destinations.

To minimize walking distances to adjacent employment and improve the transfer between VRE and Metrorail, the Strategic Plan recommends a capital project to construct a new pedestrian connection – directly linking the VRE and Metrorail stations and shortening the walk route to the developed areas of Alexandria.

A stair, escalator and elevator would descend from each of the two rail station platforms to a underground concourse that would tie directly into the southern portion of the Metrorail station mezzanine, within the free zone. From this point, there would be direct access up to the Metrorail platform or out to the bus bays and street. A minimum of two to three minutes of time would be saved by passengers transferring between VRE and Metro or walking to points east of the station. The elevator access and weather-protected walking path would offer a much more convenient transfer to Metro – for VRE passengers heading either to destinations along the Metro Blue or Yellow lines or air passengers heading to Reagan National Airport.

The east side platform also would need to be lengthened as needed to accommodate full-length VRE trains. The main platform on the west side has ample existing length.

Concept plans and design studies have not yet been prepared for these improvements, but a capital cost allowance of \$10 million (in 2003 dollars) has been assumed in the Strategic Plan.

Rolling stock

The pressure of increasing ridership demand is being felt not only at VRE's station parking lots, but on their rolling stock fleet as well. Standees on peak trains are a routine occurrence. Over the past year, VRE ridership growth at the suburban stations closest to Washington has tapered, at least in part in response to the fact that seats on board peak period trains are increasingly hard to come by. VRE's ability to add service in response to this demand is constrained by the CSX operating agreement and the Memorandum of Understanding among CSX, VRE and the Commonwealth of Virginia, which allow for incremental increases in VRE service linked to the completion of certain infrastructure projects. Another constraint is the available train storage capacity for VRE in Washington Terminal, which has been stretched to its limit. Until these constraints are lifted, VRE service will be limited to 11 trainsets, 32 daily trains, and the mid-day storage of 69 pieces of equipment (58 coaches and 11 locomotives) at the lvy City Coach Yard in Washington Terminal.

VRE's response to this constraint has been to transition to a higher-capacity fleet of coaches, substituting recently-acquired bi-level cars for the original single-level, lower capacity Mafersa coaches. Given the long lead time for new coach procurement, VRE has taken advantage of opportunities to acquire surplus existing equipment from other properties, including the Seattle Sounder and Chicago Metra systems. As a result, the VRE coach fleet currently comprises four different types of coaches, with different





seating arrangements and capacities, door configurations and operational and maintenance characteristics.

VRE recognizes that the current situation, while expedient in the short term, is not optimal with respect to either customer service or long-term operations and maintenance costs. The VRE Strategic Plan, therefore, identifies a rational fleet procurement strategy that ultimately will provide a standardized fleet of modern, high-capacity bi-level coaches for the VRE system, with seating capacity sufficient to accommodate projected ridership growth.

VRE's existing locomotives are under-powered for the heavy, long bi-level trains that VRE intends to operate. They also are in need of a substantial overhaul, they do not meet current air quality standards, and there are not enough of them to operate the full VRE service into the future. As a result, the Strategic Plan calls for replacement of the diesel locomotive fleet with standardized, modern, high-horsepower units that comply with Tier II air quality standards.

To the extent that funding can be obtained for a large, near-term coach procurement and replacement of the existing diesel locomotives, the transition to a standardized VRE fleet can be substantially in place by 2010, at costs that are expected to be extremely competitive.

Coaches

The current VRE fleet, as the table below indicates, comprises four types of coaches – three different bi-level configurations (the Kawasaki cars, Pullman Gallery cars and the Sounder cars), plus the original fleet of Mafersa single-level coaches.

Table 4.4.1 VRE Passenger Coach Fleet

No.	Manufacturer	Туре	Seats	Single/ Bi-Level	Boarding Level	Remarks
10	Mafersa	Cab Car	100	Single	High/Low	
28	Mafersa	Trailer Coach	109	Single	High/Low	To be sold, 2004
4	Kawasaki	Cab Car	135	Bi-Level	High/Low	
9	Kawasaki	Trailer Coach	144	Bi-Level	High/Low	
15	Pullman	Trailer Coach	157	Bi-Level Gallery	Low only	FIRST AND SECOND ORDER Delivery completed in 2003
28	Pullman	Trailer Coach	157	Bi-Level Gallery	Low only	THIRD ORDER Delivery to be
2	Pullman	Cab Car	153	Bi-Level Gallery	Low only	completed in 2004
4	Bombardier	Cab Car	134	Bi-level	Low only	Sounder lease –
14	Bombardier	Trailer Coach	144	Bi-level	Low only	to be terminated by end of CY 2007

The shaded area indicates coaches that are being leased from the Seattle Sounder commuter rail system on a short-term basis. This equipment is expected to be returned to Seattle once replacement Gallery equipment has been received and placed in service.





In response to continuing growth in ridership demand beyond the capacity of the fleet that was in place in the late 1990s, VRE has expanded its fleet of coaches and is now running longer trains than at any time in its history. Because of the scarcity of train storage capacity at VRE's yard facilities and the cost of lengthening station platforms, all recently-acquired coach equipment has been in a bi-level configuration, with higher seating capacities than the original Mafersa single-level cars.

Funding constraints, coupled with the long lead time required for procuring new rail cars, have led VRE to the short term lease of surplus rail equipment from the Seattle Sounder system (three train sets comprising 18 Bombardier bi-level cars) and purchase and rehabilitation of a total of 45 Gallery coaches from the Metra commuter rail system in Chicago. Were all of this equipment to be available on the VRE property simultaneously, the fleet would comprise a total of 114 coaches, 76 of them bi-levels, with a total seating capacity of approximately 15,500. However, as the Gallery cars are rehabbed and received, the lower-capacity Mafersa cars will be sold (later in 2004, with some of the cab cars retained until 2006-2007), and the three Sounder trainsets will be returned to Seattle (by the end of 2007 at the latest). The VRE coach fleet in 2007, therefore, is expected to comprise 69 vehicles - the 13 Kawasaki bi-levels, 45 Gallery cars, plus 11 new cab cars needed to replace the Mafersa cab cars. This all-bi-level fleet will have more seating capacity than the current mixed fleet of 74 vehicles operated by VRE in 2003, although the limited train storage capacity at Washington Terminal and the need to hold some equipment in reserve for maintenance and repair limit the number of cars and seats that VRE can operate on any given day.

Short Term Fleet Program

VRE initially acquired 15 Gallery cars from Metra's Chicago service between 2001 and 2003 and within the past two years has purchased 35 additional Gallery cars from Metra, which as of the writing of this report are in the process of being overhauled, both mechanically and cosmetically, and introduced into VRE service. Thirty of these cars will be used in revenue service with five cars held as a "ready reserve" – bringing the total number of usable Gallery cars to 45.

The 45 Gallery coaches currently being acquired by VRE have a limited life span and represent only a temporary, stop-gap solution to VRE's seating capacity problem. The 15 original Gallery coaches are projected to be serviceable only through 2009. The 30 units acquired more recently are of a slightly newer vintage, and some are projected to last through 2015.

The Mafersa coaches, manufactured in 1992, are in generally good mechanical condition but have reached the point in their life cycle where a mid-life overhaul is due. Given the steady increase in peak ridership and the lack of mid-day train storage space at Washington Terminal, the Mafersas are significantly less efficient than the bi-levels, because their seating capacity is 25 to 30 percent lower than any of the bi-level coach configurations. Consequently, VRE was faced with two fundamental options with respect to the Mafersas:

- Retain them and put them through an overhaul program, or
- Dispose of them (e.g., sell them to another commuter rail property) and accelerate the transition to an all bi-level fleet.



- 53 - MAY 2004



VRE elected to pursue the latter option and has agreed to the sale of all 38 Mafersa units to the Connecticut Department of Transportation. As part of this agreement, VRE will retain the use of seven of the Mafersa cab cars through 2006. As a consequence of the sale, VRE will obtain funds that can be used to make needed short-term capital improvements, as well as to establish a reserve fund that was recommended in the last audit. VRE also will be able to avoid incurring the overhaul costs for the Mafersa fleet.

Strong ridership growth, the pending sale of the Mafersas, and the relatively short expected life span of the Gallery cars reinforce the need for VRE to proceed immediately with the procurement of new high-capacity bi-level coaches. The procurement process for new commuter rail coaches typically requires three to four years from the initial purchase decision to delivery and commissioning of the initial units. VRE's intent is to expedite the procurement process so that approximately 50 new coaches will start to be delivered in 2007. VRE expects to be able to obtain a competitive price for this equipment, based on coach production capacity that is expected to be available in the industry later this decade, as well economies of scale that will be available with a large order. Funding for this coach procurement has been included in Virginia's request for the SAFTEA Federal transportation reauthorization legislation.

Even with a fast-track procurement, there is a risk that the first new vehicles will not be able to be received and accepted for service before the time that the seven Mafersa cab cars will need to be released to Connecticut and the Sounder trainsets returned to Seattle. To protect against a potential shortage of both coach seats and cab control cars, VRE plans to advance the immediate procurement of 11 cab cars, using available sources funds that do not require Federal legislative approval. Each VRE train is required to have one cab control car, positioned at the end of the train opposite the locomotive, so that the train can operate either in "push" mode (cab car in front) or traditional "pull" mode (locomotive in front). The 11 cab cars preferably would be new units, but other options also could be considered, such as leasing cab cars from another property, acquiring and retrofitting additional Metra Gallery cars as cab cars or converting existing VRE Gallery trailer coaches to cab cars. In any case, the 11 cab cars need to be available for service in the 2006-2007 timeframe. This will bring the number of cab cars in VRE fleet up to 17, including the four Kawasaki bi-level cab cars and two Gallery cars that currently are equipped as cab cars.

Medium to Long-term Coach Requirements

Building upon the short-term actions to replace the Mafersa cars with Gallery bi-levels, and working towards the objective of operating a standardized, all-bi-level fleet, the VRE fleet strategy identifies coach procurement through 2025, for each of the three strategic plan scenarios and the full range of projected future ridership levels.

The recommended short-term actions with respect to the VRE fleet, as described above, are common to all three of the strategic plan scenarios. The scenarios vary, however, with respect to the number and timing of future coach acquisitions in the 2010-2025 period.

The chart in Figure 4-4-1 shows VRE's coach fleet plan through 2025 based on the mid-range ridership forecast, which roughly corresponds with the Targeted Growth Scenario. The chart illustrates the relationship between the aggregate peak period seating capacity of the available equipment and the range of projected daily ridership



- 54 - MAY 2004

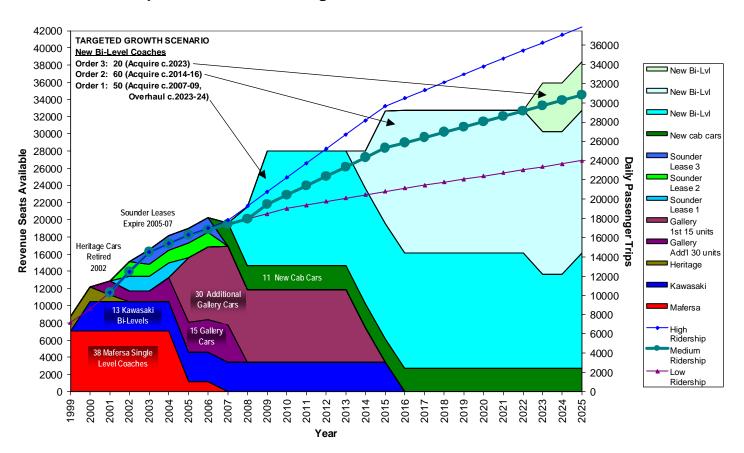


levels, annually through 2025. Seating capacity and ridership are plotted on different scales to reflect the fact that fleet planning is based on average peak car occupancies in the 85 to 90 percent range. Revenue seat numbers assume trips in both the morning and evening peak periods but exclude additional trips made during the midday period. Although figures for the current year show available seats exceeding projected ridership, some trains operating during the high mid-week period have passenger loads in excess of capacity, with no ability to add cars because of the limited train storage available in Washington.

In the Targeted Growth Scenario, the oldest 15 Gallery cars would be retired as the first order of 50 new coaches (including a mix of trailer coaches and cab cars) is received in the 2007-2009 period.

A second order of approximately 60 coaches in the 2014-2016 period will be needed to support projected ridership growth and to enable the remaining Pullman Gallery cars to be retired. At this point in time, the 13 Kawasaki coaches could be sold, prior to their mid-life overhaul, and VRE would have a standardized fleet of modern bi-level equipment. Standardizing and modernizing the fleet will enable VRE to achieve long term maintenance cost savings, improve the availability of the coach fleet for revenue service, and thereby keep spare fleet requirements to a minimum.

Figure 4-4-1
VRE Ridership Demand Versus Seat Availability (Hypothetical) –
Coach Requirements to Meet Targeted Growth Scenario







In the post 2015 period, still more coach equipment will be needed to accommodate ridership growth and network expansion. For the Targeted Growth Scenario, this supplemental coach order is projected to occur in the 2023 timeframe and comprise approximately 20 additional vehicles. The additional equipment also will enable VRE to conduct a mid-life overhaul program on its original set of new bi-level coaches in the 2023-2024 period.

Total VRE coach requirements for various years through 2025, for each type of equipment and for the high, medium and low levels of projected ridership, are presented in Table 4.4.2, including allowances for spare equipment. By 2025, the coach fleet will range from 100 vehicles (for the low end of the ridership range at 24,000 daily trips) up to 160 vehicles (for the high end of the ridership range at approximately 40,000 daily trips). The Targeted Growth Scenario, corresponding to the mid-range ridership forecast, provides for a 140-coach fleet by 2025.

Table 4.4.3 indicates the size and projected timing of new coach acquisition for each of the three strategic plan scenarios. All three scenarios are based on selling the Mafersa coaches, acquiring 11 cab cars as soon as possible (to replace the Mafersa and Sounder cab cars) and acquiring an additional 50 coaches in the 2007-2009 timeframe to replace the leased Sounder trainsets and the oldest of the Gallery cars. All three scenarios dispose of the Kawasaki bi-levels and achieve a standardized bi-level coach fleet in the 2015 timeframe. The other two scenarios diverge from the Targeted scenario only after 2009 – in terms of the size and timing of additional coach purchases through 2025 to meet ridership demands.

Figure 4-4-2 shows the equipment needs in response to the Aggressive Growth Scenario and the high end of the range of projected ridership. To stay ahead of ridership demand, a supplemental coach order would need to placed to enable an additional 75 coaches to be available for service in the 2013-2015 period, followed by an additional increase of 25 coaches in the 2019-2020 period – bringing the total coach fleet to 160 units. Figure 4-4-3 shows that a significantly lower quantity of coach equipment would be required for the Deferred Growth Scenario to meet the low end of the projected ridership range.

In the 2009-2015 period, if ridership tracks at or towards the low end of the range, it would be possible to retire a portion of the Gallery fleet sooner, though some of the Gallery equipment would need to be retained through 2015. In the 2014-2016 period, approximately 39 additional bi-level coaches would be acquired to permit the current Gallery fleet to be retired and the Kawasaki bi-levels to be sold prior to their mid-life overhaul.



- 56 - MAY 2004



Table 4.4.2 VRE Coach Requirements Through 2025

							<u>2010</u>	<u>2017</u>	<u>2025</u>
				VE 1	Ь	New Bi-Level Coach	61	135	160
				SSI	표등	Gallery Coach	30		
	Existing	Planned	Planned	GROWTH	HIGH RIDERSHIP	Kasasaki Coach	13		
	<u>2003</u>	<u>2005-06</u>	<u>2007</u>	AGGRESSIVE GROWTH	RI	Total	104	135	160
New Bi-Level Cab Ca			11		İ	New Bi-Level Coach	61	120	140
Gallery Coach	5	45	45		ша	Gallery Coach	30		
Sounder Coach	18	12		TARGETED GROWTH	MID-RANGE RIDERSHIP	Sounder Coach			
Kasasaki Coach	13	13	13	RGE 70V	4. H	Kasasaki Coach	13		
Mafersa Coach	38	7		TAI		Mafersa Coach			
Total	74	77	69			Total	104	120	140
					:	N. Bilandonal	04	100	100
				요포	₽	New Bi-Level Coach	61	100	100
				R ×	LOW	Gallery Coach	15		
				DEFERRED GROWTH	LOW RIDERSHIP	Kasasaki Coach	13		
				3 S	₽	Total	89	100	100

Total coach fleet, including car cars and trailer coaches. Includes allowances for protect, spare and out of service equipment.

Table 4.4.3 VRE Coach Procurement Through 2025, By Strategic Plan Scenario

New Bi-Level Coaches to be Acquired... Cumulative <u>2006-07</u> <u>2007-09</u> <u>2013-15</u> <u>2014-16</u> <u>2019-20</u> <u>c. 2023</u> **Total** Cab Cars Aggressive Growth Trailers Total Cab Cars Targeted Growth Trailers Total Cab Cars Deferred Growth Trailers Total



MAY 2004

Figure 4-4-2 VRE Ridership Demand Versus Seat Availability (Hypothetical) – Coach Requirements to Meet Aggressive Growth Scenario

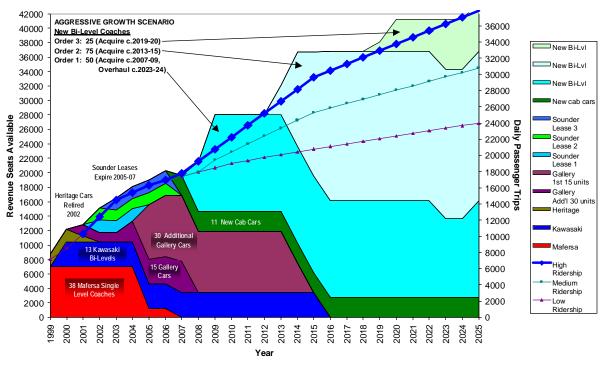
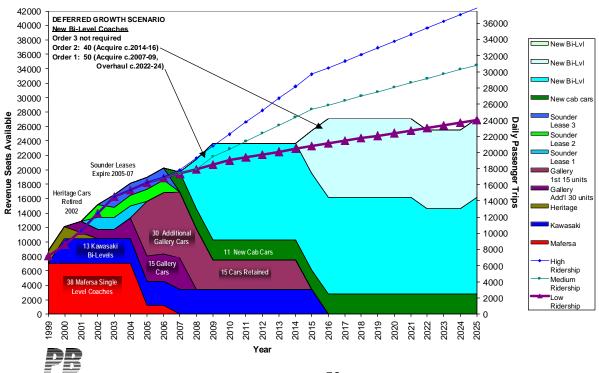


Figure 4-4-3 VRE Ridership Demand Versus Seat Availability (Hypothetical) – Coach Requirements to Meet Deferred Growth Scenario





The High Boarding-Versus-Low Boarding Issue

All current VRE station platforms are low-level. This configuration is not only cheaper to construct and maintain but also the low level platforms pose no clearance problems for the freight operation. The current design concept for the new L'Enfant station incorporates a high level platform as an alternative to replacing a bridge. VRE prefers the low-level option. Amtrak has put forth several plans that call for some of the lower level tracks at Washington Union Station to have high-level platforms. Run through service to Maryland would bring VRE trains to stations with high-level platforms on two of the three MARC lines -- the Penn and Camden lines to Baltimore.

In the current fleet, the Mafersa and Kawasaki cars are suitable for either high or low platform operation. The Gallery and Sounder cars can operate at low platforms only. This issue affects ridership, coach configuration, and capital investment needs. Timing and pricing considerations in the short term most likely dictate the use of an off-the-shelf configuration for the coach order, perhaps procuring in tandem with another property. While the greatest long-term operating flexibility would be achieved by acquiring a high and low boarding vehicle, ideally with remote control door and trap operation to facilitate a one-person operation and allow the fastest possible loading and unloading, overall cost considerations and the availability of production line capacity for low boarding cars may dictate that VRE evolve in the direction of an all-low platform operation. Run through service, should it occur, would be with MARC equipment if the run-through involved high-level platforms.

Locomotives

Table 4.4.4 lists the existing fleet of VRE locomotives, including 15 units owned by VRE and six leased units.

Table 4.4.4
Existing VRE Locomotive Fleet

Manufacturer	Model	Ownership	Built/Reblt	HP	Road Nos.	Total
GM-EMD-MK	GP39-2C	VRE	1991	2300	V01-V10	10
GM-EMD-MK	GP40-2C	VRE	1995	3000	V20-V24	5
GM-EMD	F40PH	Amtrak	1985-87	3000	V30-V31	2
			2003	3000	V32-V33	2
GM-EMD	F59P	Sound Transit	2001	3000	V40-V41	2

The shaded area indicates locomotives that are being leased – the F40-PH units from Amtrak and the F59P units from the Seattle commuter rail system.



- 59 - MAY 2004



While these 21 existing locomotives adequately serve VRE's existing operation, none of them is suitable over the long term for meeting VRE's needs. The six leased locomotives will need to be replaced in the near-term future:

- Two of the F-40s are rapidly approaching the end of their useful lives and will need to be rebuilt or replaced. The other two should be serviceable through 2010.
- The two Sounder F-59s will need to be returned to Sound Transit in Seattle along with the leased Sounder coaches.

The 15 VRE-owned GP-39 and GP-40 locomotives are also now in need of replacement. These locomotives were logical choices for VRE when it was a start-up operation. They could be acquired relatively inexpensively as re-manufactured units that at the time were in plentiful supply from locomotive suppliers. Their capacity and performance were adequate for the short trains, with relatively small passenger loads, that VRE initially carried.

However, in order to add more seats to accommodate ridership today, some VRE trainsets will need to be lengthened from six to eight cars in the not-too-distant future. In addition to requiring a larger coach fleet, this also will trigger an upgrade to VRE's locomotive fleet to locomotives with higher horsepower and greater head end power (HEP) capacity for running the train's lighting, heating and air conditioning.

The number of required locomotives through 2025 is a function of the pace at which new train service is added, which in turn depends upon plans for line extensions, completion of rail infrastructure capacity projects, and agreements between VRE and its host railroads concerning the pace of service growth.

A summary of VRE's projected locomotive requirements is shown in Table 4.4.5. Future growth needs are based on service expanding ultimately to between 16 and 19 trainsets, reflecting closer peak hour headways, mid-day and evening service, and expansion of the route network. For estimating future requirements, one locomotive per train is assumed, for trainsets with up to ten coaches.

Table 4.4.5 VRE Locomotive Requirements Through 2025

	Present (2003) Equipment on Roster	Phase 1 (2010)	Phase 2 (2015)	Phase 3 (2025)
Number of Revenue Trainsets	11	13	16	19
Protect Engines	3	3	3	3
Shop Spares	7	5	5	5
Shop Margin	33%	24%	21%	19%
TOTAL LOCOMOTIVES*	21	21	24	27

^{*} includes Protect, Spare and Out of Service locomotives



- 60 - MAY 2004



The overall locomotive requirements assume that a protect unit (extra locomotive) is maintained at three locations, Crossroads, Broad Run, and Ivy City, so that a locomotive or cab car failure at the start of a run will not necessarily result in cancellation of the train. In addition, an allowance is made for five spare locomotives that are assumed to be in the shop for maintenance work, repairs of overhaul or otherwise are out of service. This allowance, known as the shop margin, currently represents 26 percent of the fleet. As more modern locomotive equipment is acquired and VRE's maintenance capabilities improve, the shop margin as a percentage of the total fleet should be able to be reduced to 20 percent or less, given the current maintenance regimen of programmed federal inspections and reactive maintenance (fixing problems as they occur). The shop margin could conceivably be reduced even further, should VRE decide in the future to adjust its maintenance philosophy to incorporate a strict regimen of progressive maintenance.

The Phase 1 preliminary plan, prepared in the spring of 2002, advanced two possible strategies for the locomotive fleet. One called for the gradual replacement of the entire locomotive fleet by 2010; the other was predicated on overhauling and continuing to use the existing 15 VRE-owned units. As Phase 2 of the Strategic Plan progressed, and the strong future growth potential of VRE has become clearer, several factors have combined to render the latter overhaul option unworkable:

- The existing locomotives do not have enough horsepower to continue to meet performance requirements for acceleration and top speed as VRE's trains get both longer and heavier. This is especially true for the 2,300 HP GP-39 units. The bi-level coaches that have become the staple of VRE's operation are significantly heavier than their single-level Mafersa counterparts. In addition, today's six-car trains could grow to eight or even10 cars as ridership continues to grow over the next five to ten years.
- New clean air regulations now make it desirable for VRE to align with the railroad emissions requirements that will be introduced in 2005. Only newly built Tier II locomotives will meet these requirements. In a region that is designated as a severe non-attainment area, VRE can thus contribute to better air quality twice over, once by enticing people away from automobiles and again by reducing the level of emissions generated by its locomotives.
- Continuing growth in ridership demand will push VRE in the direction of increasing the number of trains it operates, which, in turn, will increase the required size of the locomotive fleet well beyond the current 15 VRE-owned units. If VRE is able to procure on the order of 20 new locomotives as part of a single order, the opportunity will exist to obtain a competitive unit price, modernize and standardize the locomotive fleet, and realize in the near term the benefits cited above.

The Strategic Plan recommendation for VRE's locomotive fleet is to convert to a modern, standardized fleet as soon as practically possible – conceivably in the 2007 timeframe. The intent is to initially acquire 20 new locomotives, which will satisfy VRE's locomotive requirements for revenue trainsets and shop margin through at least 2015 and most likely beyond. The requirement for protect engines can be met either by assigning three of the new units or by retaining a limited number of the existing



- 61 - MAY 2004



3,000 horsepower units, which also would allow for a more rapid than predicted increase in revenue train service.

VRE has requested that the Governor of Virginia add \$41 million to VRE's SAFTEA reauthorization request to fund 20 new Tier II locomotives. The specification for new locomotives will incorporate the following minimum design standards:

- Tier II compliant (meets new Federal emissions standards)
- Horsepower sufficient to haul consist of up to ten stainless steel bi-level coaches
- Top speed of at least 80 mph.

The total capital cost of acquiring 20 new locomotives is expected to fall in the range of \$40 to \$60 million.

In the short term, selected existing units will receive HEP upgrades and undergo a limited overhaul program, to keep the fleet running until new equipment is received. In addition, VRE will lease additional locomotives on a short-term basis as needed to enable the GP units to be retired in advance of the receipt of new units and to permit the Sounder locomotives to be returned to Seattle by the end of 2007.

Table 4.4.6 VRE Locomotive Procurement Through 2025, By Strategic Plan Scenario

	<u>2005-09</u>	<u>2010-15</u>	<u>2016-25</u>	<u>Total</u>
Aggressive Growth	20	4	3	27
Targeted Growth	20		4	24
Deferred Growth	20	-1	-1	20



Cumulative



Storage Yards and Maintenance Facilities

Storage yards and maintenance facilities are important components of the VRE operation and are just as much a constraint on future growth as the availability of rail cars. Even if VRE had unlimited rolling stock, the current yard constraints would prevent VRE from deploying significantly more or longer trains. Additional mid-day storage space for VRE trains is urgently needed in or around Washington, requiring capital investment. At a minimum, space for 20 additional coaches is needed in the immediate near term to allow VRE to lengthen trains to address the current standee situation. An additional 10 to 20 spaces are estimated to be required by 2010 to accommodate additional trainsets or a lengthening of the current trainsets. In order for VRE ridership growth to continue, construction of additional train storage and maintenance facilities must occur in tandem with the acquisition of additional railcars and expansion of station parking capacity.

Mid-Day Storage Requirements

VRE's mid-day storage facility at the Washington Terminal Coach Yard comprises seven storage tracks of varying lengths, with a total capacity for storing 69 pieces of equipment (including locomotives and coaches). VRE's current operation manages to fit all 11 of its revenue trainsets into this yard by the end of the morning weekday peak period, by doubling up trains on two of the tracks and storing three trains end-to-end on the longest track. VRE occupies all 69 available storage positions (with 58 coaches and 11 locomotives). Despite the regular presence of standees on some peak VRE trains, and the current availability of additional coaches as a result of recent equipment purchase and lease activity, VRE cannot add a single coach to any train that has to lay over in the Coach Yard.

Strong projected VRE ridership growth driven by demographic trends, coupled with the push to improve the level of VRE service and extend the reach of the VRE network, will require VRE to lengthen its trains – initially to eight car consists and perhaps ultimately to ten cars – and increase the number of trains it operates. This will quickly and dramatically increase the requirements for VRE train storage at Washington, as Table 4.5.1 indicates.

Table 4.5.1
Projected VRE Mid-Day Storage Requirements at Washington Terminal Through 2025

Existing (2003)		Phase 1	Phase 2		Phase 3	
Capacity Utilization		(by 2010)	(2010 - 2015)		(by 2025)	
			Low	High	Low	High
11	11	13	16	16	19	19
69	69	100	118	127	137	157
55		.50	. 10	121	107	107
	Capacity	Capacity Utilization 11 11	Capacity Utilization (by 2010) 11 11 13	Capacity Utilization (by 2010) (2010) Low 11 11 13 16	Capacity Utilization (by 2010) (2010 - 2015) Low High 11 11 13 16 16	Capacity Utilization (by 2010) (2010 - 2015) (by 2010) Low High Low 11 11 13 16 16 19

Note:

Future requirements based on mid-day storage of 100% of revenue trainsets at Washington Terminal.

Operating plans that provide for reverse-peak and/or mid-day service will reduce mid-day storage requirement at Washington.



- 63 - MAY 2004



Various schemes have been proposed over the years to increase storage. Both the Wedge Yard and the Crescent Track have been proposed and studied, and these were identified in the Phase 1 VRE Strategic Plan as the preferred near term locations for expanded mid-day storage. While both projects are physically feasible, neither has progressed significantly towards implementation. The real estate negotiations among VRE, CSX and Amtrak have been difficult and have not yet achieved a favorable outcome or agreed-upon solution. One or both of these facilities may yet prove to be workable short to medium term solutions. However, finding additional space for VRE midday storage is imperative and urgent, so VRE has expanded its focus to include other potential locations within the terminal area, including the former B&O Eckington Yard, the former Penn Central Ivy City Team Track, also known as the Hecht site, and a possible side track within the existing right-of-way adjacent to L'Enfant Station. Either of the first two sites would have the distinct advantage that a relatively small but independent maintenance facility, separate from the existing Ivy City shops, could be constructed to service VRE equipment during the mid-day layover period. This would provide needed additional shop capacity that would be difficult or impossible to provide within the constrained boundaries of the existing Amtrak Ivy City Shop. It also would more readily facilitate maintenance activities were VRE to decide to engage a maintenance operator other than Amtrak at some point in the future.

Significant disadvantages include the property acquisition costs and uncertainty about the owner's willingness to sell. Moreover, in the case of the Hecht site, it would be necessary to extend the current 'Avenue' interlocking north of the New York Avenue bridge and construct track connections to enable VRE trains to get to the Hecht site while minimizing interference with Amtrak's Northeast Corridor Operations. The Hecht site also is encumbered by an existing lease and would in all likelihood not be ready for VRE's use until at least 2007. While the Hecht site may be viable as a longer term solution to a VRE dedicated yard and mid-day maintenance facility in Washington, it will not be an easy solution, nor can it be quickly achieved.

The L'Enfant side track is a possible interim solution for increasing VRE's effective storage capacity while plans and designs for a permanent long-term solution within the terminal are finalized. The track would be placed on an existing but currently unoccupied track "slot" on the elevated embankment between the north end of the VRE station platform at L'Enfant and the interlocking at Virginia Avenue. The track would be accessed by means of a hand-throw, electric lock turnout north of the station platform and would have room for the storage of two 8-car trainsets. The benefit of this location is its location off of the mainline and north of VRE's heaviest station (L'Enfant). It would not impact freight operations through the L'Enfant area or across the Long Bridge. There would be two possible ways of operating this side track: the simplest operation would be to take two VRE trains and skip the last stop at Union Station. instead ducking the trains into the side track upon discharging passengers at L'Enfant. This would require Union Station-bound passengers on these trains to either transfer to the subsequent VRE train or transfer to the Metro. The other approach would be to deadhead two trains back from Union Station and into the side track. This would consume additional line capacity in the First Street Tunnel and at Virginia Avenue Interlocking and might result in an increase in congestion and delays. As a temporary interim measure, however, the disadvantages could be tolerated in exchange for the ability to operate more and longer VRE trains before the time when new permanent storage facilities north of Union Station could be constructed.



- 64 - MAY 2004



Another potential short-term method for increasing VRE peak period capacity to Washington would be to take one trainset that currently is stored at the Coach Yard and instead couple it to the late morning peak VRE train that currently returns to Broad Run on the Manassas Line. The two trainsets would run as a single train back to Broad Run, so as not to consume additional train slots on the CSX line, which are regulated by the agreement between VRE, CSX and the Commonwealth of Virginia. The trains would be uncoupled at Broad Run, with one of the trains stored there during the mid-day and the other returning to Washington on its regular late morning schedule. The early afternoon VRE train from Washington to Broad Run would retrieve the stored trainset and return it to Washington for service in the evening peak. Since only ten trainsets would need to be stored at the Coach Yard instead of eleven, two of these trains could be made longer (as could the train that would be stored at Broad Run). This scheme would consume some additional platform track capacity on the lower level of Union Station during the peak period, which is expected to be available in the short term.

Overnight Storage Requirements

The present overnight storage locations, Crossroads on the Fredericksburg Line and Broad Run on the Manassas Line, each have eight tracks. They are adequately sized to handle the present day equipment sets but offer only limited potential for future growth – either by lengthening trainsets or adding new trainsets.

As ridership grows, the decision about whether to add new trains, lengthen existing trains, or both, will be made as a result of many interrelated market, financial and political factors. Over the long term, the capacity and configuration of VRE's storage yards should not dictate how the service is operated. The Strategic Plan, therefore, provides for a phased program of capital investments at outlying yards to permit VRE maximum flexibility in growing its service cost-effectively.

In order to flexibly accommodate future needs, storage yards should be planned and designed to be able to accommodate either smaller numbers of long trains, or a higher number of shorter trains. Specifically, yards should be planned for up to ten-car VRE train lengths. The maximum length trains that can be stored in the existing yards are nine cars at Crossroads and eight cars at Broad Run. These maximum lengths are available on only a single track at each yard. All other tracks are shorter and offer less storage capacity. Yard sites also should be planned to be able to store sufficient numbers of trainsets to permit future VRE service at 20-minute headways, with zone express service offering improved running times from the fast-growing outer portions of the VRE service area.

The additional property required to accommodate these long-term requirements should be identified and either purchased or otherwise protected for future rail use immediately – to prevent its prior development for other purposes.

Where possible, yard expansion projects should be undertaken incrementally in phases, to minimize wasted investment and permit VRE to tailor its facilities to its specific needs as the system evolves. Projects at existing and potential future yard locations should simultaneously address storage and equipment maintenance needs, taking advantage of economies of scale where possible.



- 65 - MAY 2004



At Crossroads, the Strategic Plan calls for an increase in the number of trainsets from six to as many as nine by 2025, as shown in Table 4.5.2. Near term investment at Crossroads, to support growth to 2015, ideally should create sufficient storage for eight trainsets up to eight cars long. Extension of any of the existing storage tracks to permit 8-10 car train lengths is problematic, given the steeply sloping topography and the concerns of nearby property owners about locomotive noise. A large parcel of industrial property, situated immediately adjacent to and at the same elevation as the existing yard, is available for acquisition and could be better suited to yard and maintenance facility expansion.

At Broad Run, the ultimate function and size of the yard facility is less certain, given the possibility of extensions of VRE service in the Gainesville-Haymarket corridor and/or beyond Broad Run into Fauquier County and beyond. Were VRE Manassas Line service to continue to terminate exclusively at Broad Run through 2025, the projected operating plan would include eight revenue trainsets, which could include several sets with 8-to-10 cars. On the other hand, if full VRE service ultimately is extended to Haymarket and Remington (or beyond), Broad Run might cease to be an overnight storage location altogether. In this scenario, it might become the preferred location for a VRE equipment maintenance facility and for storage of any equipment that is not in revenue service. A few of these potential medium and long-range overnight storage scenarios for the Manassas Line are presented in Table 4.5.3, including Broad Run as well as other potential sites on the Gainesville-Haymarket Line and in Fauquier County. These scenarios illustrate the range of possible future yard configurations.

The wide range poses a dilemma for short-term capital investment planning at Broad Run. Major expansion of the property is difficult given site topography and adjacent property uses. Limited expansion of the yard to provide additional tracks, and to lengthen at least some existing tracks, would be consistent with its potential long-term use either for overnight storage or as a maintenance shop. Expansion projects should be limited to those that can be made cost-effectively, with the objective of being able to accommodate eight trainsets up to eight cars long.

If the decision is made by VRE to extend service to Gainesville or Haymarket, a site for a train storage facility should be selected now and reserved or acquired. The site should be large enough to accommodate overnight storage of up to eight 10-car trainsets, providing some future expansion capacity beyond the six trainsets envisioned in the 2025 operating plan. A separate analysis would be required to determine if it makes sense for VRE to build this new facility as part of the first phase of a line extension, perhaps reducing capital investment needs at Broad Run, or for VRE to defer construction of a Gainesville-Haymarket yard in lieu of near-term investment and expansion of Broad Run, with VRE trains being deadheaded to their starting point on the Gainesville-Haymarket line. Either option is a potentially feasible interim solution with VRE traffic at relatively low levels.

Similarly, if VRE decides to extend service to Fauquier County, a site for outlying train storage should be identified along the NS Piedmont mainline. This site selection needs to take into account any potential for further extension of VRE service to Culpeper or further south.



- 66 - MAY 2004



Table 4.5.2 Projected VRE Fredericksburg Line Overnight Storage Requirements at **Crossroads Yard Through 2025**

	Existing (2003) Capacity Utilization		Phase 1	Phase 2 (2010 - 2015)		Phase 3 (by 2025)	
	Сараспу	apacity Utilization (by 2010) (2010 - 2015) Low High		Low High			
Trainsets / Tracks Total units (cars & locomotives)	8 64	6 38	7 56	8 63	8 69	9 71	9 81

Table 4.5.3 Projected VRE Manassas Line Overnight Storage Requirements Through 2025

	Existing	(2003)	Phase 1	Pha	se 2	Pha	se 3
	Capacity	Utilization	(by 2010)	(2010 - 2015)		(by 2025)	
				Low	High	Low	High
Total Manassas Line							
Trainsets / Tracks	8	5	6	8	8	10	10
Total units (cars & locomotives)	58	31	44	55	58	66	76
Broad Run/Fauquier Branch							
Trainsets / Tracks	8	5	6	3	3	4	4
Total units (cars & locomotives)	58	31	44	24	25	26	28
Gainesville-Haymarket Branch							
Trainsets / Tracks				5	5	6	6
Total units (cars & locomotives)				31	33	40	48

Note:

Phase 1 - For Gainesville start-up service, trains assumed to be stored overnight at Broad Run.

Phase 2 -- Assumes VRE service to Haymarket and Broad Run.

Phase 3 -- Assumes VRE service to Haymarket and Fauquier County (e.g., Remington).





Equipment Maintenance Options

Currently Amtrak is the contract operator and equipment maintainer for VRE, and virtually all significant maintenance activities are centralized at the Amtrak shop at Ivy City, within Washington Terminal.

The size of the VRE fleet is growing beyond the capacity of the existing maintenance facilities. Starting from the original 38 Mafersa coaches, which satisfied VRE's requirements through the late 1990s, VRE's coach fleet has grown steadily over the past several years and will exceed 100 vehicles within the next six months. When the three leased Sounder trainsets are returned to Seattle and the full complement of 45 Gallery cars has been received, VRE will have a total coach fleet of 96, comprising three distinct types of vehicle.

The number of locomotives has not grown as rapidly, but with the planned addition of trains following completion of programmed rail capacity projects and the extension of service on the Gainesville-Haymarket branch, VRE's locomotive fleet is expected to increase from 21 to as many as 27.

In addition to its lack of expansion capacity, another problem for VRE with the existing arrangements for rolling stock maintenance is the lack of a dedicated facility and staff for the inspection, maintenance and repair of VRE equipment. At the lvy City facility in Washington Terminal, VRE must compete for resources with MARC and with Amtrak itself, and the mid-day maintenance window can be rather short. Continued reliance on lvy City as the sole maintenance location necessarily presumes that Amtrak continues to be the contract maintainer. The size of the VRE operation and the contemplated future equipment needs indicate that VRE will have outgrown the original concepts of equipment maintenance, which was essentially an "add on" to Amtrak's lvy City mission. VRE also is not satisfied with the length and unpredictability of the turnaround time for maintenance and repair of its equipment at lvy City.

The anticipated growth in the size of the VRE fleet, coupled with an increasingly large MARC commuter rail fleet also being maintained by Amtrak in Washington, and expected growth in Amtrak's own intercity passenger rail business, will severely tax the existing facilities. Safety will always come first, and the highest priority for the equipment maintenance function will continue to be the safe operation of the trains and the timely repair of safety-critical defects. In a capacity-constrained facility, this will push other maintenance and non-safety critical repair work to the back burner. The result could be longer maintenance turnaround times, which would negatively affect equipment availability and have the effect of requiring VRE to invest in additional rolling stock to ensure that sufficient equipment is available for daily peak service. Amtrak's ability to regularly wash each train set at Washington Terminal, which is difficult to accomplish today, will become more difficult as the fleet expands. Similarly, preventive maintenance and minor repairs work will become more difficult to schedule, with the likely result that an increasing number of coaches over time may need to be operated a something less than the high standard that VRE desires and expects.

Without investment in new maintenance facility capacity, and greater control over its equipment maintenance functions, VRE's prospects are for increasing delays and costs associated with equipment maintenance and repair, a decline in the overall





quality of the fleet, and additional rolling stock acquisition to support the required shop margin.

As a result, VRE's strategy moving forward is to begin performing routine maintenance and inspection functions at VRE's own facilities. The long range Strategic Plan includes a combination of new facilities at the two existing outlying yards, plus additional intermediate maintenance facilities at a site that has yet to be determined. In the short term, a relatively low level of investment in maintenance facilities at both Crossroads and Broad Run will give VRE additional maintenance capacity and flexibility to perform more routine inspection and maintenance activities during the overnight layover. Construction of a pit track at Broad Run to permit underbody coach inspections will complement the capability that already exists at Crossroads, is essential for meeting VRE's immediate needs given new Federal vehicle inspection requirements, and should be progressed as rapidly as possible. In addition, the near-term plan calls for about \$2 million of capital investment in equipment maintenance at each of the two outlying yard locations – including Butler-type support buildings, an indoor facility for performing basic maintenance with a capacity of two cars using forklifts, and car wash equipment.

These facilities will permit but do not require VRE to obtain a contractor, separate from Amtrak, to perform the maintenance functions. Over time, a programmed maintenance strategy could be devised that would transfer some or most of the routine inspection, maintenance and running repair functions from Ivy City at Washington to the VRE facilities in Northern Virginia. Heavy repairs, overhauls, and longer-term programmed work could be handled on a contract basis at off-site facilities, or by Amtrak at Washington. Implementing these relatively modest near-term facility improvements at Crossroads and Broad Run will afford VRE some flexibility in the development of a maintenance philosophy and selection of a contractor that are optimal for VRE.

VRE's capital needs with respect to fleet storage and maintenance are summarized in Table 4.5.4. VRE's five-year plan includes a \$40 million medium maintenance facility, which could result in the creation of up to 60 jobs at a new maintenance location in Virginia.



- 69 - MAY 2004



Table 4.5.4 Storage and Maintenance Facility Estimated Capital Costs

Costs in million	s of 2003 dollars	2004- 2009	2010- <u>2015</u>	2016- <u>2025</u>	Cumulative <u>Total</u>
	Washington Terminal	\$10	\$50	\$0	\$60
AGGRESSIVE	Crossroads Facilities	\$5			\$5
GROWTH	Broad Run Facilities	\$5			\$5
	Haymarket Line Yard		\$7		\$7
HIGH	Fauquier Yard			\$5	\$5
RIDERSHIP	Intermediate Maintenance Facility	\$25	\$50		\$75
	Total	\$45	\$107	\$5	\$157
	Washington Terminal	\$10	\$50	\$0	\$60
	Crossroads Facilities	\$5			\$5
GROWTH	Broad Run Facilities	\$5			\$5
MID-RANGE	Haymarket Line Yard		\$7		\$7
	Intermediate Maintenance Facility		\$50		\$50
	Total	\$20	\$107	\$0	\$127
_					
DEFERRED	Washington Terminal	\$5	\$0	\$0	\$5
GROWTH	Crossroads Facilities	\$3			\$3
	Broad Run Facilities	\$4			\$4
LOW RIDERSHIP	Intermediate Maintenance Facility		\$25	\$25	\$50
RIDERSHIP	Total	\$12	\$25	\$25	\$62





Rail Infrastructure

Rail infrastructure projects are included in the Strategic Plan in order to provide sufficient capacity on the railroad for the simultaneous growth of passenger and freight traffic.

On the CSX RF&P Line, a plan has been developed for improving speeds and line capacity to support the anticipated future growth of commuter, high-speed intercity and freight traffic on the line. The following projects, which have been identified in a memorandum of understanding (MOU) signed by CSX, the Commonwealth of Virginia and VRE, and for which \$66 million of capital funding was established, represent the highest-priority initial phase projects that were identified in this plan and are in the process of being designed and implemented:

- AF Interlocking reconfiguration (completed in late 2001)
- New bridge across Quantico Creek (estimated completion 2006).
- L'Enfant freight bypass track and interlocking reconfiguration
- Third track, RO to SRO Interlocking (Arlington-Crystal City area)
- Crossovers at Arkendale (Aquia)
- Third track, Franconia Hill (AF to Ravensworth Interlockings)
- Crossovers at Ellett
- Third track, Fredericksburg to Crossroads.

The timing of these projects has slipped from the original schedule outlined in the MOU, but they continue to be fully funded and remain the highest-priority rail infrastructure improvements on the CSX RF&P Line.

Other future projects that are included in the long-range plan for the Targeted and Aggressive Growth Scenarios entail constructing portions of a third mainline track in areas that are not constrained by major physical obstacles such as river crossings:

- 3rd track, Ravensworth to Colchester (Occoquan), 6.7 mi.
- 3rd track, Powells to Aquia (via Quantico), 12.0 mi.
- 3rd track, Aquia Creek to Dahlgren Jct., 8.7 mi.

This additional track capacity will enable VRE to run additional Fredericksburg Line trains beyond those provided for in the MOU – either to reduce peak headways, extend the duration of the peak period, initiate zone express service from the outermost stations on the line, or increase the amount of VRE service at off-peak times.

On the NS Line, the capacity of the two-track line between Alexandria and Manassas is expected to be sufficient to accommodate projected future levels of train operations. Any new construction within or adjacent to the right-of-way, however, should allow for the future addition of a third mainline track should traffic require one in the future. Significant off-peak or reverse-peak service may trigger the need for some additional future capacity investment.



- 71 - MAY 2004



Estimated capital costs for rail infrastructure improvements are presented in Table 4.6.1 for each of the three Strategic Plan scenarios. Cost estimates for the mainline track projects were obtained from previous engineering studies of these potential projects. The estimated costs for signal system upgrades and for Washington Terminal capacity enhancements are allowances, for initial planning purposes only, and are not based on concept plans or a definitive scope of work.

Table 4.6.1
Rail Infrastructure Capital Cost Allowances

Costs in million	s of 2003 dollars	2004- 2009	2010- <u>2015</u>	2016- <u>2025</u>	Cumulative <u>Total</u>
AGGRESSIVE	Miles of Additional Mainline Track	0	6	24	30
GROWTH	Rail Infrastructure (beyond MOU)	\$0	\$37	\$163	\$200
	Signal System Upgrade	\$0	\$20	\$0	\$20
HIGH	Washington Terminal Capacity	\$0	\$25	\$25	\$50
RIDERSHIP	Total	\$0	\$82	\$188	\$270
TARGETED	Miles of Additional Mainline Track	0	0	15	15
GROWTH	Rail Infrastructure (beyond MOU)	\$0	\$7	\$81	\$88
	Signal System Upgrade	\$0	\$0	\$20	\$20
MID-RANGE	Washington Terminal Capacity	\$0	\$0	\$25	\$25
RIDERSHIP	Total	\$0	\$7	\$126	\$133
DEFERRED	Miles of Additional Mainline Track	0	0	0	0
GROWTH	Rail Infrastructure (beyond MOU)	\$0	\$0	\$0	\$0
	Signal System Upgrade	\$0	\$0	\$0	\$0
LOW	Washington Terminal Capacity	\$0	\$0	\$25	\$25
RIDERSHIP	Total	\$0	\$0	\$25	\$25

Within the territory between Alexandria and Washington, DC, the only major projects beyond those already included in the MOU are a new Potomac River bridge, and installing the fourth main track on existing right-of-way between the Potomac River and AF Interlocking in Alexandria. These projects together would provide for two side-by-side double-track railroads – one for passengers and the other for freight – all the way from Virginia Avenue Tower in Washington to the mixing bowl at AF Interlocking. This improvement offers the greatest long-term flexibility to VRE and the other passenger operators in designing their service plans to best meet their market objectives. It also is a requirement for unencumbered run-through service. The VRE commuter rail service is only one of many potential stakeholders in this set of capacity projects. As a result, the costs of these long-term capital projects are not included in the VRE Strategic Plan.





Train Dispatching and Operational Control

Historically, the operation and supervision of rail traffic in the greater Washington, DC region, including Northern Virginia and Maryland, has been fragmented – controlled by at least three different organizations, from five different dispatching locations:

- Washington Terminal, including C, K and A Interlockings controlled by Amtrak, from K Tower at Union Station
- Northeast Corridor, from New York Avenue to Trenton, NJ dispatched by Amtrak, from its Centralized Electrification and Traffic Control (CETC) facility, in Philadelphia
- MARC Camden and Brunswick Lines (CSX Capital and Metropolitan Subdivisions, including F and QN Interlockings at Washington), Alexandria Extension from CP-Virginia to Hyattsville, and the RF&P Subdivision from RO Interlocking south to Richmond and beyond – dispatched by CSX, from its control center in Jacksonville, Florida
- CP-Virginia via the Virginia Avenue Tunnel, Anacostia Jct. and Benning Yard to Landover, including L'Enfant Station and the Long Bridge – formerly controlled by Conrail (now CSX) from its control center in Selkirk (Albany), New York.
- AF Interlocking to Manassas and beyond dispatched by Norfolk Southern, from its control center in Greenville, South Carolina.

CSX, since the breakup of Conrail, has acted to consolidate its dispatching functions in Jacksonville, which reduces the number of locations from five to four – which still is an awkward arrangement for passenger trains that have to traverse multiple territories.

The increased volume of train movements in the region, particularly on the line from CP-Virginia to Alexandria, and the necessary mixing or interleaving of freight and passenger trains on the Long Bridge prior to the construction of additional rail capacity across the Potomac River, will increase the density of train movements in this territory, especially during the weekday commuter peak periods. This will create a situation where careful attention is required on the part of train dispatchers to make the most productive use of the capacity that will exist following the proposed infrastructure improvements.

Consolidation of the dispatching functions at Washington Terminal and on the commuter lines emanating from Washington would provide for integration and closer control of rail operations in the Washington area. It also provides the opportunity to bring day-to-day operational decision-making closer to the affected stakeholders, including decisions about the response to delays, breakdowns or other incidents on the line, the imposition of slow orders or other actions in response to inclement or extreme weather conditions, or the coordination and handling of emergency situations, including the possible evacuation of the capital as happened on September 11, 2001. Maintaining safe operations would continue to be of paramount importance, and the organization, management and operating procedures of the new facility would need to be structured in a way that protects business interests of the freight railroads and the transportation objectives of all of the affected operators: CSX, NS, Amtrak, MARC and VRE.



- 73 - MAY 2004



Such an investment in a Washington-area control center may be economically justifiable, based on the increased dispatching workload, the fact that the Washington commuter area will require a method of operation and dispatching different from the rest of the CSX and NS network, and the limited expansion capacity at existing control center facilities, such as the CSX Dufford Center in Jacksonville.

Ideally, from the standpoint of passenger service, the limits of the territory to be incorporated in a new control facility should include the full extents of the Washington region's commuter service. It could include the CSX RF&P Line, Alexandria Extension and freight/commuter lines in Maryland, the NS line from Alexandria to Manassas, and the Washington Terminal complex. If the benefits are shown to outweigh the costs, the territory could be extended further to include the southern portion of the Amtrak Northeast Corridor and additional pieces of the CSX and NS networks.

The scope of such a project has not yet been developed, nor have sources of funding been identified. The potential benefits of such a project to VRE service will not, by themselves, be sufficient to make the case for such a major change in the existing ownership and control of train dispatching functions. Similar benefits also would accrue to the region's other passenger operators – MARC and Amtrak. However, the project would also have to represent a win-win situation for both CSX and NS. In order for either railroad to cede some measure of its independence with respect to train dispatching and control, they will have to receive substantial compensating benefits. Therefore, the project probably only makes sense in the context of a bigger plan, agreed to and funded by multiple stakeholders, that fundamentally addresses and relieves the bottlenecks in the existing regional rail freight network and gives each of the freight railroads substantially more capacity, greater clearance and weight allowances, and greater flexibility in scheduling their own traffic through the region.

VRE would not proceed unilaterally to implement such a project. However, the potential benefits of such a project in terms of VRE's ability to offer the highest level and quality of service to its customers make it entirely consistent with VRE's goals and a logical initiative to include in its long-range plan. The Strategic Plan, therefore, includes a capital line item and an allowance of \$25 million for the facility and associated systems and equipment costs of establishing a regional control center in the Washington area.

The ramifications of this potential change are extensive and require careful consideration, analysis, design, negotiation and agreement among the interested parties prior to implementation. Such analysis and discussion is outside the scope of this strategic plan study.



- 74 - MAY 2004

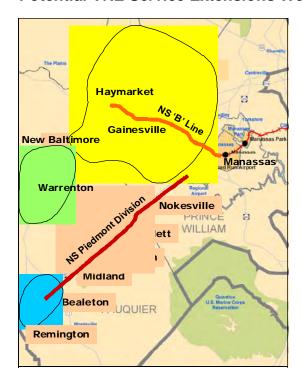


5. POTENTIAL NETWORK EXPANSION

Gainesville-Haymarket

The growth of the northern Virginia suburbs and the availability of affordable new housing are pushing the demand for commuter rail service beyond the boundaries of the current VRE network. Two possible routes for a westward service extension exist, as shown in Figure 5-1. Both are Norfolk Southern (NS) rail freight lines – one heading west generally paralleling Interstate Route 66 through Gainesville to Haymarket, and the other heading southwest into Fauquier County. These are not mutually exclusive alternatives, and, in fact, the long-range demand projections support VRE service on both lines. However, phased implementation of extended service is likely to be the way that service evolves.

Figure 5-1
Potential VRE Service Extensions West of Manassas







A strong case can be made for an extension of the VRE Manassas Line westward along the Norfolk Southern freight line towards Gainesville and Haymarket. The western portion of Prince William County, centered on Gainesville, is one of the fastest-growing residential areas in the region, and job growth in the corridor also is projected to be strong. Rail service is consistent with county growth plans. Institution of commuter rail in this area would expand VRE's core business of transporting relatively long haul commuters to the Central Business District. VRE will be competitive with highway-based modes for trips from this area to the Central Business District, because of the ever-growing highway congestion. Development in this corridor is rapid enough already that one issue of concern is that potential land for stations could face short-term development pressure.

Future incremental daily ridership from this area could be in the range from 3,100 to 5,500 trips, with the higher level of demand associated with full peak service at 30 minute headways, coupled with aggressive but reasonable assumptions about transit-oriented development adjacent to station sites and VRE's ability to induce increased demand for work trips to the CBD. Between 1,400 and 2,200 parking spaces would need to be constructed at the three potential station locations. Effective transit-oriented development can help reduce but not eliminate the need for parking. Much of the rapidly-developing area of western Prince William County will be within convenient driving distance of potential rail stations along this line.

In the winter of 2002-3, Parsons Brinckerhoff undertook a rail operations and engineering study in cooperation with Norfolk Southern and the Woodside Consulting Group to determine the impacts of potential VRE commuter trains on the operations both of NS freight trains and Amtrak passenger trains. The study, completed in the spring of 2003² identified specific railroad capacity needs and estimated construction costs to mitigate the impacts of rail commuter service. The study concluded that the proposed expansion to Bealeton/Haymarket was physically and operationally feasible, and that investments in railroad system capacity would be required to enable both passenger and freight services to grow and operate reliably in the future.

Significant capital improvements to the current railroad infrastructure are required to accommodate a mixed passenger and freight operation as well as taking into account future growth in VRE, freight, and intercity passenger service. The line west from Manassas through the Gainesville/Haymarket corridor (The B Line) is a single track, dark (unsignaled) railroad with a maximum authorized speed of 45 mph with 25 mph speed restrictions at some locations. Access to the line is through the Norfolk Southern yard at Manassas, which is controlled by hand-throw turnouts and which trains are now able to traverse only at a speed of 10 mph. No passenger trains currently operate over the line.

The 'B' Line originally was a minor branch line for the Southern Railway. However, as Norfolk Southern's network has evolved and the availability of the Amtrak Northeast Corridor for freight traffic has declined, the 'B' Line has become a strategically important link in Norfolk Southern's primary north-south route along the east coast – linking Virginia and the Southeast with Pennsylvania, New Jersey and New York. The line carries several time-sensitive, high-priority intermodal trains, and the level of freight traffic is projected to increase in the future.

² "Virginia Railway Express Service Extension Study," Woodside Consulting Group, Palo Alto, April 2003 Included as an appendix to this report.





In order to provide for the efficient movement of both passenger and freight trains, NS will require at a minimum a double-track railroad and a signal system with centralized traffic control for any new territory over which VRE commuter trains will run. On the 'B' Line, this means building the second track and adding the entire signal system. Straightening the existing line or adding superelevation to curves to increase the speed of the line also would be desirable for both freight and passenger operations.

Norfolk Southern is in the process of upgrading a similar line for passenger service in North Carolina and has found that main line curves maintained for passenger train speeds require higher elevation of the outside rail than curves in freight-only territory. The effect is that the inside rail wears out more quickly, and more frequent timber-and-surface work is required because of passenger train speeds. Most of the upgrading on the B Line will increase the maintenance costs for the right-of-way, and VRE should budget to absorb those increases.

Capital upgrades to rail infrastructure on the Norfolk Southern B Line that are necessary for the extension of passenger service include:

- Double track
- Traffic Control signaling
- Special electronics and circuitry for highway warning devices
- Power turnouts on all legs of Manassas wye and on all crossovers and station tracks
- 30 mph on both legs of upgraded Manassas wye
- 60 mph maximum freight train speed; 79 mph passenger speed where feasible.

The 'B' Line has several grade crossings between Manassas and Haymarket; two are particularly problematic, and VDOT has plans for their grade separation:

- State Route 28—Nokesville Road at Manassas, and
- US Route 29—Lee Highway at Gainesville.

The former project is expected to be completed within the upcoming six year capital program period. A preliminary design exists for the latter project, which includes a new interchange with Interstate 66 and the relocation of State Route 55. This will be a massive project, however, and it currently is unfunded, so the timing of its implementation is uncertain. When built, the highway overpasses will allow for a three-track right of way underneath. Both safety considerations and good railroad operating practice would keep passenger operations away from this site, however, until the grade separation project is complete.

Both the nature of the market and the railroad infrastructure improvements required lend themselves to a phased approach to implementation. A workable initial phase could include service to Gainesville, with an interim terminal station stopping short of the US 29 grade crossing. A second phase would expand the service on the branch from three peak trains to six and shorten peak headways from 50 to 30 minutes – either retaining the terminus at Gainesville or extending the line three miles to Haymarket if the US 29 grade separation project moves ahead.





The US Route 15 grade crossing at Haymarket is another major railroad grade crossing that will deserve consideration for grade separation as the local area develops, particularly if VRE service is extended to Haymarket. As is the case with the other crossings, there is no State or Federal funding currently allocated for this project.

Gainesville Start-Up Service

A logical starting point for Gainesville service would include three morning peak trains to Washington, at approximately 50 minute headways, returning to Gainesville in the afternoon peak. There would be an intermediate station stop near the point where the extension of Sudley Manor Road would cross over the rail line. A hypothetical train schedule for this "Phase 1" service is presented in the Appendix. The Gainesville trains would alternate with trains originating at Broad Run, also at 50 minute headways, resulting in train service between Manassas and Washington at 25 minute peak headways, slightly better than today's schedule. Supplemental bus service could be provided from Gainesville and Sudley Manor to Manassas, to connect with the Broad Run trains to reduce the effective headway of the service. Similarly, buses could connect Broad Run station with the Gainesville trains as they pass through Manassas.

The capital improvements recommended in the feasibility study included double tracking and signaling the line where passenger trains operate, raising the authorized speed and upgrading the access to the line through Manassas Yard. Table 5-1 presents the requirements for initial start-up service to Gainesville. A range of costs is presented, between \$55 and \$70 million, reflecting the existence of issues that require further analysis and which might affect the terms of the agreement that will need to be reached between NS and VRE concerning VRE's use of the 'B' Line. That agreement, which has yet to be negotiated, will determine the extent and cost of capacity improvements on the line that will be required for VRE to begin service to Gainesville.

The high end of the cost range includes all capital projects that NS has identified as being required to support the start-up service. It also includes a cost allowance for a VRE storage yard facility along the 'B' Line route. The low end of the cost range assumes that the new yard facility is deferred to a later phase of development, and it also assumes that the construction of a third mainline track from Manassas to Broad Run can be deferred. The actual mix of projects that will need to be constructed for the start-up phase as well as any subsequent phase will need to be determined cooperatively by NS and VRE. For purposes of the Strategic Plan, the start-up cost for Gainesville service is expected to fall somewhere within the range of costs presented in Table 5.1.

Support facilities on the Manassas Line will need to be expanded to accommodate the increased equipment and ridership. If a new yard is not built at Gainesville as part of the initial project, the existing Broad Run facility is adequately sized to accommodate the extra VRE trainset. The three morning Gainesville trains could deadhead (run empty in non-revenue service) between the overnight storage point at Broad Run and the start of revenue service at Gainesville.

Startup service to Gainesville (Phase 1) will add one equipment set (locomotive and six cars, at a cost of approximately \$15 million) to VRE's daily equipment requirements, bringing the daily total up to six sets of equipment.



- 78 - MAY 2004



Table 5.1
Capital Projects Required for VRE Start-Up Service to Gainesville

(All capital costs expressed in millions of 2003 dollars) Not sure about the last column.

		Capital Co	st Range	Potential Cost
Category	Project	Low	High	Sharing
Rail Infrastructure	Extend Springfield Runaround Track	\$0.6*	\$0.6*	No
Rail Infrastructure	Upgrade 'B' Line connection track on north leg of Manassas Wye	\$4.9*	\$4.9*	No
Rail Infrastructure	Extend 2 nd main track, install signal system, Manassas to Gainesville, approx. 8 mi.	\$20.4*	\$20.4*	No
Rail Infrastructure	Side track for local freight use in Gainesville vicinity	\$2.3*	\$2.3*	No
Rail Infrastructure	Construct 2 nd main track, South leg of Manassas Wye	\$1.4*	\$1.4*	No
Rail Infrastructure	Construct 3 rd main track, Manassas to Broad Run		\$8.0*	No
Stations	Two commuter stations, with double side platforms, surface parking	\$10.0	\$10.0	Yes (Developers)
Yards	Potential storage yard at Gainesville		\$7.0	No
Rolling Stock	One additional 6-car trainset	\$15.0	\$15.0	No
TOTAL COST		\$54.6	\$69.6	

^{*} Source: Woodside Consulting Group, Inc.

Full Service to Haymarket

As a second phase of development, service could be extended on the 'B' Line from Gainesville to Haymarket, a total of about three miles, and the quantity of train service could be expanded to approximate the level of service provided to VRE's existing territory. The number of peak trains would be increased from three to seven, permitting peak headways of 30 minutes. Hypothetical schedules are presented in the Appendix. Reverse-peak VRE service also could be instituted at this time, providing opportunities for inner city and suburban residents to use VRE to travel to workplaces in the I-66 corridor. Limited off-peak service between Washington and Haymarket also could be considered.

The overall level of train service at Broad Run would be reduced to two or three peak trains. Feeder bus connections from Broad Run to Haymarket trains at either Manassas or Sudley Manor could provide additional service frequency at other times of day. Supplemental feeder buses would be more cost-effective than adding more trains but still would require operating subsidies over and above the core VRE service.

The capital investments associated with extending service to Haymarket are presented in Table 5.2. As with the initial start-up phase, a range of capital costs is presented – with the incremental cost of extending VRE service to Haymarket (over and above the cost of the start-up service) in the range of \$38 to \$68 million, depending upon how much infrastructure work is done in the first phase and how much new rolling stock is





required. Double track and signals with centralized traffic control will be extended to the Haymarket area, at around Milepost 11.5 on the 'B' Line. The logical time at which to extend VRE service to Haymarket is when the major US29/SR55/I-66 highway improvement is made. This project includes grade separating both US29 and SR55 over the railroad at Gainesville, and a portion of the second main track and industrial siding could be constructed as part of or simultaneously with this project.

Depending upon when service is extended to Haymarket and what other service improvements have been made by VRE to support the core network, one to two additional trainsets (capital cost between \$15 and \$30 million) will likely need to be placed in service at the time full VRE service (e.g., 30 minute peak headways) to either Gainesville or Haymarket is instituted.

Table 5.2
Additional Capital Projects Required for Full VRE Service to Haymarket

(All capital costs expressed in millions of 2003 dollars)

		Capital Co	ost Range	Potential Cost
Category	Project	Low	High	Sharing
Rail Infrastructure	Extend 2 nd main track, install signal system, Gainesville to west end of Haymarket, approx. 3 mi.	\$11.5**	\$11.5**	Partial (US29 / SR55 / I-66 interchange project)
Rail Infrastructure	Haymarket station track	\$1.8*	\$1.8*	No
Rail Infrastructure	'B' Line siding extensions between Haymarket and Front Royal (including Allison and potentially additional locations)	\$6.0	\$6.0	Yes (NS)
Rail Infrastructure	Projects to improve operating speed for passenger and freight trains***	\$TBD	\$TBD	No
Stations	Haymarket station, with single side platform, surface parking	\$4.0	\$4.0	Yes (Developer)
Yards	Storage yard for 6 VRE trainsets at Haymarket, if not provided at Gainesville in Phase 1		\$7.0	No
Rail Infrastructure	Construct 3 rd main track, Manassas to Broad Run, if not provided in Phase 1***		\$8.0*	No
Highway	US 29 and SR 55 grade crossing elimination	n.a.	n.a.	Yes (VDOT)
Rolling Stock	Two additional 6-car trainsets	\$15.0	\$30.0	No
TOTAL COST		\$38.3+	\$68.3	

Source: Woodside Consulting Group, Inc.

When full VRE service is instituted to Haymarket, an overnight train storage and light maintenance facility will need to be built for the six VRE trainsets that will operate on the branch. This facility should be situated on the 'B' Line, in order to avoid time and



- 80 - MAY 2004

^{**} Scope and cost modified from original Woodside estimate based on NS comments, 7/03.

^{***}Scope and cost of these improvements to be determined during design, subject to cost-effectiveness analysis.



capacity-consuming deadhead moves from Broad Run for large numbers of trains and to ensure the reliability of both passenger and freight service on the line. A preferred site for this facility has not yet been selected, but several candidate locations have been identified in the area between Gainesville and Haymarket.

In progressing this service extension, there are several strategic partnerships that VRE could form as a source of support and funding. Potential implementation and funding partners include:

- Prince William and Fauquier counties, local municipalities, and private sector developers, for the coordinated transit-oriented development of station areas and station facilities
- Commonwealth of Virginia, in light of support of increased intercity service to Charlottesville, Roanoke, and Bristol. Many of the same capital improvements would benefit both services
- Norfolk Southern, because railroad capacity projects in this corridor dovetail
 with Norfolk Southern's broader initiative to increase capacity for north-south
 freight service and upgrade the 'B' line route to a major, strategic main line
- I-66 Corridor Project because the proposed VRE service offers the potential to mitigate the negative impacts of highway construction and provide over the long term a productive transportation option for people seeking to travel to the central business district.

Fauquier County

There is another choice for VRE expansion beyond Manassas – into Fauquier County along the Norfolk Southern Piedmont main line from the current VRE terminus at Broad Run to either Bealeton or Remington. Bealeton is 17 miles from Broad Run, and Remington is another 3 miles distant.

In contrast to the Gainesville-Haymarket corridor, the rail corridor through Fauquier corridor represents a smaller market and there is less evidence of current development. There are, however, strong growth prospects. There is available water and sewer capacity in the Bealeton-Remington zone, and there is excellent station area development potential. The County master plan supports growth in the Bealeton-Remington zone, and 8,000 new dwelling units of housing are proposed within the growth area.

Full VRE service to both Haymarket and Bealeton-Remington would require a total of ten Manassas Line equipment sets, along with associated overnight storage and maintenance facilities.

There are six potential station locations on the route between Broad Run and Remington, formerly stops on the Southern Railway – including Nokesville in Prince William County and Catlett, Calverton, Midland, Bealeton and Remington in Fauquier County.

Most of the countryside through which the rail line passes between Broad Run and Bealeton is land planned for rural and agricultural preservation by Prince William and Fauguier Counties. Though some infill and limited subdivision development is





inevitable in this corridor, and would be magnified were commuter rail service to be introduced, the density of development in close proximity to the rail line will never be heavy enough to generate significant numbers of commuter rail riders, particularly given the low percentage of Fauquier County residents with workplaces in the central business districts served by VRE.

The areas surrounding the communities of Bealeton and Remington, on the other hand, are a different story. They lie within an already-established water and sewer district and are targeted as a growth area by Fauquier County. A total of 8,000 new dwelling units are planned for the Bealeton-Remington growth area. There also are active planned development projects at both potential stations locations. At Bealeton, the development will be primarily focused on employment, while at Remington, the station area proposal calls for a more mixed-use development. Both locations have considerable transit-oriented development potential. Because of the potential for transit-oriented development at Remington, this is likely to be the preferred terminus for VRE service extended in Fauquier County.

The operational and engineering feasibility study looked at Bealeton as the terminus, because of a known development project at that location, and did not address the potential extension of service for an additional three miles to Remington, where the local station area development proposal only became known during the course of the study.

Incremental operating costs for Fauquier County service will be reasonable, because some of the Fauquier service will be extensions of trains that would otherwise start out at Broad Run. The operating plan for the Fauquier County service assumes four peak trains operating towards Washington in the morning and returning in the afternoon peak period. The trains would be spaced 30-45 minutes apart. One or more trains at the height of the peak could operate as express trains, skipping some stations on the inner portion of the line in order to shorten as much as possible the journey time by rail.

Three stations are assumed along the extension: Remington, Bealeton and one intermediate park and ride station that could pick up commuters driving from the Warrenton/New Baltimore area. Daily ridership by 2025 is projected to be in the range of 1,100 to 2,000 daily trips, with the higher figure representing more aggressive assumptions with respect to transit-oriented development and induced demand. A total of 600 to 800 parking spaces would need to be developed at the three station locations. Demand would be slightly higher at the intermediate park-and-ride station without a VRE extension to Gainesville-Haymarket, with a greater share of Warrenton-New Baltimore riders using the Fauquier service.

The highest VRE mode shares will be achieved with service on both extensions, offering more choices to commuters from Fauquier County. Table 5.3 lists the projects that would have to be implemented in order to initiate VRE service to Fauquier County. The principal rail infrastructure requirement is to restore the second mainline track between Nokesville and Calverton, for a distance of 7 miles. Construction of the second track will be relatively straightforward and less expensive on a per-mile basis than constructing a new track in the Gainesville-Haymarket corridor, since the Piedmont mainline used to be a double track line.

An additional capital project would create a separate side track for the terminal station, whether it is located in Bealeton, Remington or another location, so that VRE trains at



- **82** - *MAY 2004*



the end-of-the-line can dwell and lay over off of the two-track mainline. The cost estimate assumes three new commuter stations.

In addition to the above projects, Fauquier service should help bear the cost of one or two additional VRE trainsets (\$15 to \$30 million total cost), which will be required to operate a split VRE service west of Manassas. The overall incremental cost of a VRE line extension to Remington is estimated to be in the range of \$40 to \$60 million, including new rolling stock.

Table 5.3
Capital Projects Required for VRE Service to Fauquier County

(All capital costs expressed in millions of 2003 dollars)

		Capital Co	st Range	Potential Cost	
Category	Project	Low	High	Sharing	
Rail Infrastructure	Extend 2 nd main track, Nokesville to Calverton, 7.0 mi.	\$16.0*	\$16.0*	Yes (Intercity service)	
Rail Infrastructure	Station track at Fauquier terminal station	\$1.1*	\$1.1*	No	
Stations	Three commuter stations, with single side platforms, surface parking	\$8.5	\$8.5	Yes (Developers)	
Yards	Storage yard for 3-4 VRE trainsets		\$5.0	No	
Rolling Stock	1-to-2 additional 6-car trainsets	\$15.0	\$30.0	No	
TOTAL COST		\$40.6	\$60.6		

^{*} Source: Woodside Consulting Group, Inc.

Overnight train storage for the equipment that will provide the Fauquier County service is an issue that will need to be worked out as plans for the line extension are developed. One option would be to build a new yard at Remington for a cost of about \$5 million. This would eliminate the need for deadhead mileage on the NS mainline, reduce potential operating conflicts between passenger and freight trains, and offer the most train scheduling flexibility to VRE. The Broad Run facility then could be converted for another use, such as a VRE maintenance shop. There is a risk, however, that Remington might not prove to be the optimal VRE yard location – if VRE service someday is extended to Culpeper or further south.

The second option would be to avoid investing in a Remington yard – or at least defer such investment until a firm decision is made about where the "end-of-the-line" will be located. With only a relatively small number of peak period trains to Washington, the Remington service could be operated by storing the equipment overnight at Broad Run and deadheading the trainsets out to the end of the line. Such an option should be feasible, as long as sufficient time is allotted in the deadhead schedules for NS to fit these trains around other freight trains that might be operating at the same time. This option would save some capital cost but increase day-to-day operating costs.

This work effort did not consider requirements for the extension of service beyond Fauquier County – to Culpeper, Charlottesville or any point in between. The previous study by VDOT and NS of potential additional intercity passenger trains did look at requirements to support limited increases in intercity service but did not specifically



- 83 - MAY 2004



look at requirements for commuter rail service, which has significantly different operating characteristics. No significant additional major investments were identified between Culpeper and Charlottesville, but the earlier plan will need to be re-visited, if additional VRE extensions are contemplated.

As the Bealeton and Remington area develops, particularly if the development concentrates higher-density residential uses in proximity to rail stations, there will be sufficient demand to support commuter rail service. The overall demand will be lower than in the Gainesville-Haymarket corridor and will take longer to materialize, so Fauguier service is envisioned as a later phase in the expansion program.

One additional obstacle to near-term implementation is the fact that Fauquier County currently is not a participating jurisdiction in VRE, being a member of neither the Potomac and Rappahannock Transportation Commission (PRTC) or the Northern Virginia Transportation Commission (NVTC). In order for an extension of VRE service to Fauquier County to be considered for implementation, VRE's core network needs will need to be fully funded, and Fauquier County will need to arrange to join the governing structure of VRE or otherwise contribute its appropriate share of VRE's capital investment costs and ongoing operating subsidies.

Commuter bus service in the Route 28 and Route 29 corridors should be considered, connecting with VRE at Broad Run or Gainesville and perhaps also serving other workplace destinations – both as an interim measure to build ridership and offer a long-haul public transportation option in advance of the ultimate extension of VRE service, and as a possible permanent alternative to extended VRE service. The efficacy of commuter bus service will depend in part upon extent of peak traffic congestion in the main highway corridors, as well as the size of the travel market to be served. Based on experience elsewhere, bus service with a transfer to the train will capture a significantly lower market share than direct service, but it offers a potentially cost-effective option. Station facilities and parking lots could be developed in advance of the rail extension and served initially by buses. Operating subsidies for a bus service would need to be borne by the jurisdictions served.

Even after extended VRE service is started, peak train service can be supplemented by buses meeting peak shoulder hour trains at Manassas (either starting there or originating on the Gainesville-Haymarket branch). The peak shoulders are the periods just before and after the heaviest part of the peak period, at times when both rail ridership and highway congestion are at lower levels than at the height of the peak.

One way to cut costs attributable to VRE would be to partner with the interests at the State level seeking to develop enhanced intercity passenger train service in the Washington-Charlottesville-Roanoke-Bristol corridor. The Nokesville-to-Calverton double tracking project would benefit intercity trains as well as commuter and freight trains and was identified as a required capital project in an earlier study of long-distance rail passenger service. A joint program by the Commonwealth of Virginia and VRE to introduce both VRE commuter service and longer-distance train service in this corridor would increase the number of trains and travel markets benefiting from the capital investments.



- 84 - MAY 2004



Spotsylvania County

Commuters from Spotsylvania County on VRE already number in the hundreds. They come from a relatively widely scattered set of origins within the county and mostly drive and park at the station in Fredericksburg. As is the case in other counties that lie at the current fringes of the greater Washington metropolitan area, the pace of residential development is accelerating, and rural areas inexorably are being transformed into suburbs.

Only 6 percent of work trips from the Fredericksburg/Spotsylvania catchment area are destined for the central business district (CBD). However, more than one third of those trips currently are made on VRE – even with relatively long drive access from much of Spotsylvania County to the Fredericksburg station. MWCOG projects that the number of work trips made by residents of Spotsylvania and Fredericksburg will increase by 45 percent between now and 2025, but only a relatively small number of these new commuters are projected to head to the CBD.

There are a couple of strong arguments in favor of the creation of a new station in Spotsylvania County. It would be a relatively low-cost option for VRE and involve very little change to the current railroad operating plan, since VRE Fredericksburg trains already operate to and from the Crossroads storage yard in Spotsylvania. Building this station also would relieve pressure for additional station parking in downtown Fredericksburg, which would be expensive to construct and at odds with the City's plans for the station area. Early implementation of a Spotsylvania station could enable VRE to give up one or more of the parking lots it currently leases at Fredericksburg. A complete new station with 500 surface parking spaces could be built at Route 17 in Spotsylvania County, excluding any required rail infrastructure improvements, for about the same cost as a 500-car garage in downtown Fredericksburg – approximately \$7 million. A VRE line extension to Spotsylvania could be implemented in the near term, without a lot of investment beyond the cost of the station facilities and track and signaling modifications in the immediate vicinity of the station.

The logical location for a VRE station within Spotsylvania County is where US Route 17 crosses over the railroad, at the Crossroads Industrial Park. No other potential station locations within Spotsylvania County were considered in this analysis, and options are limited. Heading southward from Crossroads, the rail right-of-way moves further away from the concentrations of new development along Route 1 and passes into Caroline County. Route 17 offers excellent local and regional highway access, from Route 1, Spotsylvania and Massaponax to the west and from New Post and Caroline County to the east.

The station would be located to the south of the Route 17 overpass, where the lead track diverges from the CSX mainline and heads up hill to the VRE Crossroads Yard. The turnout from the mainline to the lead track would be moved and the lead track extended approximately 1,000 feet to the north to make room for a station platform alongside the extended lead track. For VRE service, a relatively simple station with a single side platform would be sufficient to accommodate projected passenger demand and anticipated future train operations. The platform location off of the CSX mainline would minimize any impacts of this station on mainline freight operations.

Should VRE service be extended south to Richmond, with Richmond trains seeking to stop at the Spotsylvania station, an additional side platform could be constructed along mainline Track 2, which passengers could access by crossing the VRE lead track at a





pedestrian grade crossing. This is the same solution as proposed for the Broad Run station with VRE service extended into Fauquier County.

Station plans also should allow for the future possibility of a regional intercity passenger rail station at this location – either in addition to or in lieu of the current Amtrak stop at Fredericksburg.

The Crossroads site offers an excellent opportunity for transit-oriented development. Though the property in the immediate station vicinity is zoned for industrial use, much of the property currently is vacant and could conceivably be partially re-zoned for relatively dense mixed uses.

This would be a relatively low-cost extension of VRE service. Total capital costs are projected to be in the range of \$16.6 to \$19.1 million, including the station, parking lot, required trackwork and signal system modifications in the station area, and an allowance for an additional four VRE coaches to handle increased passenger loads. At least a portion of the station costs could be borne by private development in the station area, particularly if it is done as part of a coordinated transit-oriented development.

Despite relatively high cost-effectiveness, the Spotsylvania station is not included in the core VRE network because Spotsylvania, like Fauquier County, currently is not a participating jurisdiction in VRE. At this time, expansion obstacles include not having permission from CSXT to expand farther south, and the counties below Fredericksburg are not participants in either of the commissions that own, operate and arrange funding for VRE.

If the necessary operating authority is acquired and the required capital investment needs are determined, then VRE can prepare operational plans for expansion. This project could advance in a relatively timely manner if Spotsylvania County joins the governing structure of VRE or otherwise contributes its appropriate share of VRE's capital investment costs and ongoing operating subsidies.

Table 5.4
Capital Projects Required for VRE Service to Spotsylvania County

(All capital costs expressed in millions of 2003 dollars)

Category	Project	Capital Cost Range		Potential Cost
		Low	High	Sharing
Rail Infrastructure	Extend VRE Crossroads Lead Track, new turnout to mainline Track 2	\$1.5	\$1.5	Yes (Intercity service)
Rail Infrastructure	Two main line crossovers north of station to provide universal capability	*	\$2.5	No
Stations	Side platform station on Crossroads Lead Track	\$6.3	\$6.3	Yes (Developers)
Yards	No additional projects			No
Rolling Stock	Additional coaches (4)	\$8.8	\$8.8	No
TOTAL COST		\$16.6	\$19.1	

^{*} New crossovers not required if already provided as part of Fredericksburg to Crossroads triple tracking.



- 86 - MAY 2004



Richmond and Charlottesville

During the course of the development of the VRE Strategic Plan, there has been interest expressed in the possibility of extending VRE service even further than Spotsylvania and Fauquier Counties – to Richmond on the CSX RF&P Line and to Charlottesville on the NS Piedmont mainline.

Consideration of Richmond and Charlottesville service was outside the scope of the strategic plan study, but investment decisions by VRE emanating from the strategic plan, particularly those affecting service to Spotsylvania and Fauquier, will need to account for the possibility of future longer-distance service – so that VRE investments are made wisely and cost-effectively.

Data on potential travel demand in the Richmond-Washington and Charlottesville-Washington corridors were not available for consideration in the strategic plan, and requirements for investment in rail infrastructure beyond Crossroads and Remington are not known with certainty.

Comprehensive, quantitative analysis of the feasibility, market potential and costeffectiveness of VRE Richmond and Charlottesville service will need to the be subject of subsequent study – to define the context within which Richmond and Charlottesville service can be considered, identify the prerequisites for such service, and ensure that design concepts for extended service to Spotsylvania and Fauquier enable or at least do not preclude future further extensions of VRE.

Run-Through Service to Maryland

The notion of integrating the commuter rail services of VRE and MARC and running commuter trains through Union Station to destinations on the far side of the region is a compelling one and has the potential to significantly increase the number of travel markets that the commuter rail networks can serve. There are many hurdles, however – physical, operational and institutional – that will need to be resolved before runthrough service can become a reality.

Preliminary projections indicate that run-through would generate greater ridership benefits for MARC than VRE. Run-through service would generate approximately 3,000 additional daily trips on VRE, while MARC daily ridership at the L'Enfant, Crystal City and Alexandria stations could be in the range of 10,000 to 20,000 trips. This estimate includes some riders that already take MARC and transfer to the Metro at Union Station.

Other potential benefits of VRE-MARC run-through service – to the Washington metropolitan region as well as two the two commuter railroads – include:

- Potential alleviation of mid-day storage constraints by reducing demand for storage at Washington Terminal
- Potential VRE access to the proposed MARC maintenance facility in Baltimore
- Mitigation of Metrorail's core capacity constraint, through diversion of some passengers from the most heavily congested segment of the Metro Red Line
- Increasing ridership for both systems
- Removing longer-distance commute trips from the Beltway and river crossings



- 87 - MAY 2004



 Improved airport access (potential VRE to BWI Airport, and MARC to Reagan National Airport).

An initial start-up service could consist of up to four run-through trains in each direction in the peak hour, with a total of eight over the course of the full peak period – both morning and afternoon. Initially, the number of trains will be limited by the need to share track capacity with freight traffic across the Potomac River on the 2-track Long Bridge.

The first prerequisite project for run-through service – the reconfiguration of AF Interlocking in Alexandria, Virginia – was completed in mid-October, 2001, using Commonwealth of Virginia funds.

The following additional projects need to be completed, or conditions met, prior to implementing MARC run-through service to northern Virginia – in order for the service to be viable and sufficiently convenient to attract significant numbers of commuters. Given the required lead time for some of these items, a 4-5 year minimum timeframe for implementation is realistic.



- 88 - MAY 2004



Table 5.5
Prerequisites for VRE-MARC Run Through Service

		Sponsorship and funding status	Estimated Additional Capital Cost		
			Capital Cost		
Prerequisites for Start-Up Service					
1.	L'Enfant freight bypass track	Funded under VDOT-VRE- CSX MOU	None		
2.	L'Enfant Station – Island platform and METRO connection		\$60-\$90m		
3.	Third track and interlocking reconfiguration – RO to SRO	Funded under VDOT-VRE- CSX MOU	None		
4.	CSX Alexandria Extension Improvements	Funded under MD MTA-CSX Agreement	None		
5.	Additional VRE and MARC rolling stock		TBD		
6.	Modified Operating Agreements		TBD		
7.	Crystal City Station reconfiguration		\$14-\$50m		
8.	Washington Union Station – High-Level Platforms & Concourse Improvements		\$5m		
9.	Washington Union Station – Improved Concourse and Pedestrian Connection to METRO		\$30m		
	OTAL ESTIMATED COST, clusive of rolling stock		\$109-\$175m		
Prerequisites for Full Run-Through Service					
10	. Train Storage and Servicing Facilities		\$10-\$30m		
11	. Line Capacity Improvements – Maryland		TBD		
12	. Washington Terminal Interlocking Improvements		\$25m*		
13	. VRE Cab Signal Equipment for Northeast Corridor Operation		\$3m		
14	. Centralized Washington Area Train Operations and Dispatch Center		\$25m*		
15	. New Potomac River Rail Bridge and Improved Freight Route Through Washington, DC		TBD		
	OTAL ESTIMATED COST		TBD		

^{*} Cost allowances. Further concept development, feasibility analysis and design required. TBD – cost to be determined.

The nine prerequisites for start-up run-through service are described below.

1. L'Enfant freight bypass track

This project is funded as one of the high-priority rail capacity improvements listed in the memorandum of understanding (MOU) signed by VDOT, VRE and CSX. It will provide a third track through the L'Enfant station area to permit





CSX through trains to bypass any passenger activity at the station and minimize the length of the 2-track bottleneck across the Potomac River.

2. L'Enfant Station island platform

The L'Enfant station project, described previously, provides an island platform, accessible from both tracks leading to and from Union Station. It would enable the station to be served at peak periods by trains operating in both directions. The station project is separate from the bypass track project and currently is unfunded. Both the station project and the bypass track are critical for runthrough service and both must be completed before run-through service can be started.

3. Third track and interlocking reconfiguration – RO to SRO

This project is located in Virginia, in the vicinity of Crystal City. RO Interlocking is located immediately south of the Long Bridge across the Potomac River. At SRO Interlocking, just south of the existing Crystal City VRE station, the 2-track line divides into 3 tracks. The planned project will extend the 3-track line from SRO to RO, as close as possible to the river crossing. The RO-SRO project, coupled with the L'Enfant project described above, will create a separate mainline track for freight trains for almost the entire distance from Virginia Avenue Tower to AF Interlocking in Alexandria – except for a distance of about one mile across the Potomac River on the 2-track Long Bridge. This will minimize the distance over which passenger and freight trains will have to share a 2-track right-of-way within the busy stretch of railroad. Like the L'Enfant project, this project is funded and included in the CSX MOU.

4. CSX Alexandria Extension Improvements

The Alexandria Extension is the railroad route for CSX trains through Washington, DC - connecting the Virginia Avenue Tunnel and the RF&P Subdivision on the south with CSX's two main lines in Maryland running to the north (Baltimore. Philadelphia) and west (Brunswick, Cumberland). Improvements are needed to increase the capacity of this largely single-track line and maximize the ability of CSX to maintain a smooth flow of trains in both directions. Double-tracking the line has been identified as a high-priority need. A portion of the line is being double tracked and improved through a project funded by the State of Maryland through an agreement with CSX. In addition, CSX has made improvements to allow freight trains to operate at higher speeds through the Virginia Avenue Tunnel and at the point where the Alexandria Extension connects with the main line in Hyattsville, MD. Together, these initiatives will increase the throughput capacity of this line for CSX, provide them with more train dispatching flexibility, and reduce potential conflicts between freight and passenger train movements in the territory between Alexandria and Virginia Avenue.

5. Additional VRE and MARC Rolling Stock

Both VRE and MARC are operating close to the practical capacity of their respective rolling stock fleets. Any significant incremental ridership attracted by run-through service in either direction will require the acquisition of additional coaches to accommodate the increased passenger loads at acceptable levels of coach occupancy.



- 90 - MAY 2004



6. Modified Operating Agreements

Even a relatively modest start-up operation of run-through service (including both VRE to Maryland and MARC to northern Virginia) will likely push the number of daily commuter train movements beyond the limits provided for in the MOU. To permit more flexible operations planning south of Washington, and to enable the full capacity benefits of proposed infrastructure improvements to be realized by all users of the rail system, the CSX operating agreements with VRE and the Maryland Transit Administration (MTA) should be modified to incorporate the following assumptions:

- During weekday peak periods, exclusive use of one track between AF Interlocking and Washington Union Station for passenger trains in the peak direction of flow (mostly VRE commuter trains, but also including Amtrak and Southeast Corridor high-speed trains or other passenger trains sponsored by the State of Virginia) northward towards Washington in the morning peak, southward in the evening peak.
- Shared use of the second track across the Long Bridge for all other traffic:
 - o northbound and southbound freight trains
 - reverse-direction passenger trains, including Amtrak trains, Southeast Corridor high-speed trains, VRE reverse-peak trains, and MARC run-through trains (southward in the morning, northward in the evening)
 - "slots" on this track would be allocated and reserved for each user
- Shared use of both tracks across the Long Bridge for all users during non-peak periods, with increased capacity for freight movements and reduced (perhaps capped) volumes of passenger trains

An operating agreement also will be required between VRE and the Maryland MTA, which owns and contracts with Amtrak and CSX to operate the MARC system.

7. Crystal City Station reconfiguration

Crystal City Station currently has a single side platform, which can only be accessed during peak periods by passenger trains operating in the peak direction of flow. Run-through service will generate demand at this station for trains operating in both directions, which can only be accommodated if the station is reconstructed to include an island platform fronting on two tracks. The VRE Strategic Plan project to relocate and rebuild this station to provide better access to local employment (currently unfunded) would put the facilities in place that are needed for future run-through service.

Stopping peak period MARC or VRE reverse-peak trains at Crystal City requires prior completion of this project, however, initial run-through service initially could be provided to L'Enfant Plaza and Alexandria prior to completion of the Crystal City station project.



- 91 - MAY 2004



8. Washington Union Station – High-Level Platforms & Concourse Improvements

The lower level of Union Station, which includes all of the tracks that connect to the First Street tunnel heading towards Virginia (tracks numbered 22 through 29), currently has only low-level platforms. To minimize the required dwell times of MARC trains operating through Union Station to and from Northern Virginia, and to maximize passenger convenience, all MARC run-through trains should stop on tracks with high-level platforms.

VRE low-boarding equipment (the recently acquired Gallery and Bombardier cars) requires low platforms, as do the Amtrak long-distance trains operating with Superliner equipment (e.g., the Cardinal). Selected tracks are assumed to remain with low-level platforms and would be used by VRE trains.

The Burnham Place project will develop the air rights above the station's lower level. The development will replace the vertical circulation elements to the lower level platforms. The configuration of platform heights and vertical circulation elements that this project provides should be designed to support the future introduction of VRE-MARC run-through service with minimal additional changes. VRE, while neither project manager nor financier, is nevertheless a key stakeholder since the portion of the station most affected by the project is the portion most used by VRE.

9. <u>Washington Union Station - Improved Concourse and Pedestrian Connection to</u> Metrorail

In concert with the escalator, stair and elevator replacements noted above, the Burnham Place project plans to upgrade and reconfigure the concourse that sits above the lower level tracks and platforms, to provide an improved level of amenity and comfort for commuters and intercity passengers who use the lower level platforms.

MARC run-through service to northern Virginia will shift some peak MARC trains from the upper level of Union Station to the lower level, which will significantly increase the walking distance from the platform to the Metrorail station at Union Station for riders who exit these trains in Washington.

Since approximately half of MARC's Union Station customers transfer to or from Metrorail, the initiation of run-through service may lengthen commute times and inconvenience a large number of existing MARC riders.

To mitigate this condition, a direct pedestrian link could be constructed between the lower level Union Station platforms and the north mezzanine of the Metro station, including a moving walkway. Such a project is not included in any current plans for Union Station, and feasibility studies and conceptual plans have not yet been undertaken. It would be logical and desirable to add such a project to the scope of the Burnham Place air rights development project for Union Station that is now being initiated.

Both the concourse improvements and an improved Metrorail connection would benefit VRE customers, and those Amtrak customers boarding or alighting from trains on the lower level tracks – in addition to MARC customers who board or alight at Union Station on run-through trains that platform at the lower level. Sharing of any incremental capital costs among the three railroads, therefore, would be appropriate.





Additional Improvements

Even with the improvements listed above, passenger and freight trains will continue to share the 2-track line across the Potomac River – the Long Bridge. Though it is likely that passenger trains can be given priority during the weekday commuter rush hours, it is also likely that CSX will seek to operate some freight service in both directions during the peak periods, which will limit the number of passenger trains that can be operated in the VRE reverse-peak direction.

In the assumed start-up operation of VRE-MARC run—through service, it is assumed that VRE will no longer operate reverse-peak trains (either turnback trains for second peak trips or deadhead trains for storage). These slots are assumed to be occupied by MARC run through trains. Some of these trains will make the VRE second turns (there is only one such turn in the current schedule, on the Manassas Line). Conversely, VRE trains can be used to make some of the MARC second turns, facilitating the return of this equipment to Virginia. The number of second turn opportunities will depend upon the base schedule and operating plan. It also would be possible in certain run-through scenarios for VRE equipment to make either revenue or deadhead moves to Baltimore for equipment maintenance at the MARC facility there.

On the Long Bridge, between RO Interlocking and the new interlocking west of L'Enfant Station, freight trains are assumed to occupy a slot of approximately 10 minutes, in either direction of travel. Passenger trains, which accelerate more quickly, are assumed to transit this distance in approximately five minutes. These time intervals are based on trains starting from a stopped position and include time for the signals to clear up behind them. The capacity of this track to accommodate mixed traffic is governed by these "slot" occupancy assumptions and the number of slots allocated among the various types of trains within the peak period. The resulting plan allocates capacity for four passenger trains per hour in the VRE reverse-peak direction, at least three of which are assumed to be available for MARC run-through service. CSX will have sufficient capacity "slots" to run a freight train in either direction every half hour, though only a few such slots would normally be occupied each rush hour period. Multiple freight slots are reserved, because the arrival time of freight trains varies considerably day to day.

The maximum number of peak period run-through trains will be constrained by available capacity over the Long Bridge and at Washington Terminal – until such time as additional capacity is created (i.e., a new parallel bridge, or modified terminal interlockings).

The following additional projects are not required in advance of implementing a relatively modest start-up service, but they would be necessary to support a full, reliable, high-quality operation with more than four run-through trains per hour. Unimpeded run-through service will be possible only once separate routes through Washington, DC for freight and passenger trains are created.

10. Train Storage and Servicing Facilities

As with rolling stock, VRE and MARC have limited capacity for train storage and servicing, both at outlying yards and within Washington Terminal. To the extent that run-through service may affect the locations where commuter rail trains are stored and maintained, new facilities may need to be built or existing



- 93 - MAY 2004



facilities expanded to accommodate future run-through service requirements. In some instances, run-through service may actually reduce investment needs or at least improve the utilization of facilities at outlying points, such as VRE's Broad Run yard, or MARC's existing and planned facilities at Baltimore and Brunswick, MD.

11. Line Capacity Improvements - Maryland

The number of peak run-through trains to Maryland destinations that VRE will be able to operate will be constrained by available line capacity for what would be "reverse-peak" trains in MARC territory. At a minimum, VRE should be able to replace in-kind the reverse-peak trains that MARC now operates (1-2 trains per hour on the Camden Line, and 1-2 trains per hour on the Penn Line). Increasing that number of trains, or enabling the running of VRE trains on the Brunswick Line to Silver Spring or Rockville, may require investment in rail infrastructure to provide sufficient capacity for both passenger and freight trains. The extent of required investment needs to be determined through more detailed operations and simulation analysis and appropriate agreements reached with CSX and/or Amtrak.

12. Washington Terminal Interlockings

For volume of through traffic proposed initially (up to 4 through commuter trains per hour in each direction, with a total of 8 through commuter trains in each direction per peak period), no changes to the configuration of K or C Interlockings are assumed. Significantly higher level of traffic are likely to require investments in additional K-C lead tracks or additional parallel crossovers at K and/or C Interlockings.

13. Cab Signal Equipment

Any VRE locomotives and cab cars that will operate on the Amtrak Northeast Corridor (NEC) as part of a run-through scenario will need to be retrofitted with cab signal and related equipment to support the 9-aspect signal system and automatic train stop system that is being implemented on the corridor. The Gallery and Bombardier bi-level cab cars may be excluded, because they will be unable to serve the high-platform stations on the NEC (Penn Line). All other VRE equipment (diesel locomotives, and Kawasaki bi-level cab cars) are assumed to be equipped for NEC operation.

14. Centralized Washington Area Train Operations and Dispatch Center

At the present time, rail traffic in the Washington, DC area is controlled by multiple dispatching centers, stretching from Jacksonville, FL to Philadelphia, PA. In the current environment, monitoring and control of a VRE run-through train from Manassas to Baltimore would be handed off among four different traffic control centers – all in different cities. If the scheduled running time for run-through trains is to be minimized, and the potential for train delays reduced, then consolidation of the train dispatching functions at a single Washington area location makes sense. While not an absolute prerequisite for run-through service, consolidated dispatching would make both the scheduling and operation of run-though trains more straightforward. This was discussed earlier in the report and would improve other aspects of VRE's service as well.



- 94 - MAY 2004



15. New Potomac River Rail Bridge

The number of VRE and MARC run-through trains that can be operated in any hour is constrained by available line capacity on the 2-track Long Bridge, which crosses the Potomac River at Washington. Plans for constructing a new rail crossing of the Potomac and creating a dedicated double-track route through Washington, DC for freight trains have been proposed and discussed at various times in the past – most recently as part of the Mid-Atlantic Rail Operations (MAROPS) initiative on the part of the freight railroads, Amtrak and the mid-Atlantic states. A preferred route and concept plan has not yet been selected; no funding has yet been allocated, nor has a timetable for implementation been established. The combination of a new 2-track bridge over the Potomac and a new or expanded freight route through Washington, DC that bypasses or otherwise relieves the bottleneck of the single-track Virginia Avenue Tunnel would simultaneously improve freight service in both Maryland and Virginia as well as free up the existing rail route for the exclusive use of passenger services.

Several issues will need to be explored further before a specific implementation plan can be recommended and the full costs of implementing run-through service are known:

- Operational Capacity of Long Bridge
- Operational Capacity of Washington Terminal Interlockings
- Train storage and maintenance requirements, by location
- Train crew issues, including:
 - the handling of equipment at Washington, through operation vs. hand-off from one crew to another
 - labor agreements, depending upon who holds the operating contract(s)
 - cross-qualification of crews on expanded crew territory
 - common, single contract operator for MARC and VRE versus multiple operators
 - impact on crew requirements and costs for MARC and VRE.
- Institutional issues, including:
 - renegotiation of existing operating agreements or creation of new agreements among MTA, VRE, Amtrak, CSX Transportation, Norfolk Southern & possible future third-party contractors
 - capital spending and project management responsibilities
 - ticketing & fare collection joint or common ticketing, possible conversion of MARC to proof-of-payment system, and compatibility with planned regional universal farecard system
 - revenue & cost sharing
 - liability and insurance
 - customer service procedures.



- 95 - MAY 2004



Many of the prerequisite projects for run-through service make sense to support the overall growth of VRE service and are included as recommended projects in the VRE Strategic Plan. Others require partnering with other stakeholders, including Amtrak and the freight railroads. The total required capital cost to implement even a relatively modest start-up run-through service could approach \$100 million, including railroad and station infrastructure as well as rolling stock.

MARC, and most-likely VRE as well, will incur incremental operating costs to support run-through service. To the extent that both railroads implement run-through service in a manner consistent with each railroad's planned growth, these costs can be minimized. Elements of railroad operations and maintenance costs include train and engine crews, maintenance of equipment, railroad access fees, operator performance incentives, and management/administrative costs.

Potential cost savings are possible, associated with equipment maintenance and operations at Washington Union Station, however, such savings are not expected to be substantial. A more detailed study will have to be undertaken in coordination with MARC and the District of Columbia in order to fully understand the costs and benefits associated with run-through service.



- 96 - MAY 2004



6. PHASED SERVICE IMPROVEMENT PLAN

VRE is running very close to its practical capacity on both the Fredericksburg and Manassas Lines, with some peak trains having standees on a regular basis. VRE ridership has grown to the point where demand warrants an increase in the number of trains. The decision by VRE to acquire available Gallery coaches from the Chicago commuter rail system will provide sufficient rolling stock for VRE to meet its needs through about 2007. However, there remain constraints in the immediate near term which limit VRE's ability to add trains to its schedule:

- The memorandum of understanding (MOU) among VRE, VDOT and CSX limits VRE to 32 daily train movements until such time as additional capital projects to increase line capacity are completed. The next projects to be implemented the L'Enfant third track and the Arkendale crossovers are delayed beyond their originally anticipated 2003 completion date.
- Lack of mid-day train storage space in Washington Terminal effectively precludes the operation of additional trains that would need storage in Washington during the day. The Coach Yard, where VRE stores its 11 trainsets during the mid-day period, is filled to its absolute maximum.

Absent the ability to increase the number of trains, the logical goal for VRE would be to increase the number of coaches as needed on the existing peak trains to provide enough seating capacity for those who wish to ride. VRE currently possesses enough equipment to be able to add coaches to the peak trains, but they are precluded from doing so by the lack of any additional capacity for mid-day train storage. Equipment assignments already have been juggled to ensure that the peak trains are operated with bi-level coach equipment, which have a higher seating capacity than the single-level Mafersa cars. Therefore, VRE will be constrained to its existing operating plan and existing consists (train lengths) until:

- additional mid-day storage capacity is created, or
- VRE is able to bring some of its equipment back to Manassas for mid-day storage, freeing up space in the Coach Yard to lengthen the remaining ten trains.

When the next round of CSX capacity-related capital projects is completed (including the construction of third main tracks on Franconia Hill and through the Crystal City area), VRE will be able to increase the number of trains it operates. Until these projects are completed, VRE will not be able to add trains – even including deadhead (non-revenue) or reverse-peak trains back to Manassas for mid-day storage.

One possibility that would give VRE the opportunity to increase the length of some of its peak trains would be to couple the last two morning peak trains together at the platform in Union Station and run them together as the 8:30 am Manassas train. One of the two trains would be uncoupled at Broad Run station and stored in the yard, returning to Washington coupled up with the return trip of the early afternoon Manassas train. This would enable VRE to reduce the number of trains stored during





the mid-day at the Washington Coach Yard from 11 to 10, enabling additional coaches to be placed on at least two other peak trainsets.

Another potential short-term remedy for the lack of storage capacity at Washington Terminal would be to construct an interim storage track in available right-of-way adjacent to the L'Enfant Station. Two VRE trainsets up to eight cars long could be stored at this location during the mid-day period, reducing the number of trains that would have to be stored in the Coach Yard and enabling some of those trains to be lengthened.

Aside from these or other possible short-term measures to increase train lengths, the Strategic Plan assumes that VRE will generally maintain its existing pattern and frequency of service until at least the 2006-2007 timeframe, when the first order of new coaches will have been received and the next round of MOU capital projects will have been completed.

From that point forward, the Strategic Plan provides a three-step plan for incrementally increasing the quantity of VRE service in response to ridership demand. These improvements in service are assumed to be implemented in phases and coordinated with capital investments that provide sufficient capacity for the increased service. This three-step plan depicts a more simplified process than will likely be the case in actuality, but it is useful as a means of envisioning the evolution of rail service and analyzing the effects of improved service on ridership, costs and financial performance.

Three hypothetical schedules and operating plans have been developed for three periods of time, roughly corresponding to increasing levels of ridership demand:

- 1. Phase 1: Adding one trainset to each line (prior to 2010 in the Targeted and Aggressive Growth scenarios)
- Phase 2: Growing to eight trainsets on each line and initiating service to Gainesville (in the 2010-2015 period for the Targeted and Aggressive Growth scenarios)
- Phase 3: Service extensions to Haymarket and Spotsylvania and Fauquier Counties, with nineteen total trainsets (post-2015 for Targeted Growth Scenario and by 2015 in Aggressive Growth Scenario).

Sample timetables for each of these three phases, on each VRE line, are included in an appendix to the report. These timetables are illustrative rather than definitive and were used as the basis for estimating ridership potential, evaluating infrastructure needs, and calculating operating costs. Table 6.1 summarizes their key characteristics and illustrates the anticipated growth in train service over the course of the three phases.

The **Phase 1** plan adds one trainset to each line in the 2006-2007 timeframe, or when sufficient rolling stock becomes available and additional MOU capital projects are completed.

On the Fredericksburg Line, the new schedule will respond to demand patterns by starting service earlier in the morning. At the height of the peak, the interval between trains will be shortened from 30 minutes to between 20 and 25 minutes. Seven trains will be stored overnight at Crossroads Yard, each making a round trip to Washington





and back – northbound in the morning peak and southbound in the afternoon peak. The Cherry Hill station is assumed to be in operation.

On the Manassas side, adding a trainset will enable the start-up of VRE service to Gainesville, along the Norfolk Southern 'B' Line west of Manassas. New stations are assumed at Gainesville, to the east of the US 29 grade crossing, and at the proposed extension of Sudley Manor Road. Three morning peak trains originate at the Broad Run storage yard, deadhead to Gainesville, and then run as revenue trains to Washington spaced about 50 minutes apart. The remaining three trainsets would originate at Broad Run and operate directly to Washington. The current reverse-peak and mid-day trains would operate to Broad Run as they do today.

Table 6.1
Operating Plan Characteristics of VRE Phased Service Improvement Plan

	Current Schedule	Phase 1	Phase 2 Low	Phase 2 High	Phase 3
		2007- 2010	2010- 2015	2010- 2015	by 2025
Fredericksburg Line					
Revenue trainsets	6	7	8	8	9
Daily train movements	14	16	18	28	34
Coaches in revenue service	32	49	55	61	70
Manassas Line					
Revenue trainsets	5	6	8	8	10
Daily train movements	18	20	28	36	42
Coaches in revenue service	26	38	47	50	66
TOTAL					
Revenue trainsets	11	13	16	16	19
Daily train movements	32	36	46	64	76
Coaches in revenue service	58	87	102	111	136

Sometime in the 2010-2015 period, a **Phase 2** schedule is assumed to be implemented which increases the total number of trainsets in revenue service from 13 to 16, with 8 trainsets operating on each line. For purposes of this analysis, VRE service is assumed to remain within the existing VRE service territory. In this phase, VRE will be able to offer on the Fredericksburg Line either peak headways reduced to 20 minutes (the "Low" case in Table 6-1) or the start of a zone express service at 30 minute headways (the "Phase 2 "High" case). In the latter case, peak trains serving the stations beyond Rippon would skip the innermost stations. The stations between Rippon and Franconia-Springfield would be served by different trains. The first two early morning trains arriving in Washington would turn and head back to Rippon for a





second peak period trip serving the inner zone. The high case also assumes additional mid-day and evening service. The "high" case operates a higher number of daily trains on the line (28) versus the "low" case (18). Infrastructure projects beyond the MOU will likely be required to support the high level of operations.

On the Manassas Line, The US 29 grade separation project is assumed to be completed, and commuter service extended another three miles to Haymarket. Two additional trainsets will enable VRE to provide improved peak headways (30 minutes) for each of the two branch lines beyond Manassas (Haymarket and Broad Run). The largest quantity of service in this phase is allocated to the Gainesville-Haymarket branch, with more limited rush hour only service from Broad Run. During off-peak and peak shoulder hours, train service out of Broad Run can be supplemented by a feeder bus service Between Broad Run and Manassas (where Broad Run passengers could transfer to and from other Gainesville-Haymarket trains), provided the incremental operating cost is supportable.

The split service at rush hours will enable some peak trains to operate as expresses or partial expresses east of Manassas, without having to lengthen headways at the inner stations. The number of daily Manassas Line trains will increase to between 28 and 36. The high end of this range assumes that bi-hourly mid-day service and later evening service is added. Operations analysis of projected passenger and freight train activity during the off-peak periods will need to be undertaken to determine any additional rail infrastructure requirements. However, off-peak service should be easier to add on the Manassas Line, than on the Fredericksburg Line, because the level of freight traffic is lower, at least on the part of the railroad between Alexandria and Manassas.

In total, the number of daily VRE trains is projected to grow to between 46 and 64 well beyond the 40 train limit provided by the current memorandum of understanding (MOU) with CSX. This will require modifying or extending this agreement, which should become a high priority for VRE. As the capital improvement projects listed in the MOU are completed between Virginia Avenue in Washington, DC and AF Interlocking in Alexandria, the railroad will have received virtually all of the capacity enhancement that is possible without a new bridge across the Potomac River. One main track in this area will be effectively dedicated to carrying nothing but peak direction VRE (and a limited number of Amtrak) trains. The remaining railroad will effectively be a double-track line that carries freight traffic in both directions and any reverse-peak direction commuter or Amtrak trains - with a relatively short single-track section in the middle across the Long Bridge over the Potomac River. In this scenario, it would be logical for CSX to closely control access by reverse-peak and off-peak passenger trains, as well as all VRE service on the CSX RF&P Subdivision, but VRE should not be limited in the number of trains it is permitted to operate from the Manassas Line to Washington, as long as they can fit comfortably in-between other VRE trains and operate single-file on a single track between AF and Virginia Avenue.

The **Phase 3** schedule in effect represents full VRE service in the years approaching 2025, incorporating multiple line extensions to enable VRE to fully tap potential ridership markets in the outlying counties of the region. A third new trainset is added to the Fredericksburg Line (bringing the total to 9), which will permit *both* zone express service and 20-minute peak headways at all stations. A new VRE station at Spotsylvania (Crossroads) is assumed. On the Manassas side, VRE service is assumed to be extended to Fauguier County (Bealeton and Remington). The



- 100 - MAY 2004



operating plan provides for a total of 10 trainsets, six on the Gainesville-Haymarket branch and four on the Fauquier branch. Additional off-peak service and weekend service is assumed to be provided on both lines as warranted by demand, with sufficient capacity improvements to permit reliable freight and passenger operations.

Though not shown in the appended timetables, the Phase 3 operating plans are compatible with extensions of VRE service to Richmond and/or Charlottesville, as well as run-through service to Maryland. For example:

- One or two of the outer zone express trains on the Fredericksburg line could be stored overnight and originate at Richmond instead of Crossroads. This would provide basic Washington commuter service from Richmond, Ashland and other communities in the I-95 corridor. One or more VRE trains could provide a late morning, mid-day and early afternoon service from Washington to Richmond and back in part duplicating Amtrak's service but offering a greater number of station stops. This can be accomplished without additional equipment (but perhaps requiring additional train crews). Adding rush hour commuter service to Richmond, however, would require the acquisition of additional trainsets.
- Similarly, one or two of the Remington trains could be stored overnight and originate at Charlottesville instead of Remington providing Washington commuter service from Charlottesville, Culpeper and points in-between. As in the Richmond corridor, Washington commute and mid-day service could be provided with the same fleet of equipment, but providing a morning peak train from Washington that would arrive in Charlottesville at the start of the work day and return in the afternoon peak would require an additional trainset.
- Given the relatively long distances involved, it might be desirable from a passenger comfort point of view to use coaches for this service that have a seating type, configuration and amenities comparable to intercity trains.
- The increased number of reverse-peak trains included in the Phase 3 VRE schedule provide a greater number of opportunities for these slots to be filled by run-through MARC trains instead of VRE trains. (An equivalent number of VRE trains would fill the MARC reverse-peak slots.).

This high level of service in Phase 3 would be greatly facilitated by the construction of a new 2-track Potomac River railroad bridge, which would completely separate freight and passenger traffic north of AF Interlocking and greatly improve VRE's scheduling flexibility. Without a new bridge crossing, the extent of MARC run-through service to Virginia and intercity service to Richmond, Charlottesville or points further south (both of which generate passenger traffic across the Potomac in the reverse-peak direction) would be restricted during weekday peak periods.

Though service extensions are shown in the Phase 3 long-range plan, it would be possible to advance some or all of these extensions within the timeframe of Phase 2, provided the required core network investments are fully funded and the overall level of capital investment can be increased to provide the necessary supporting infrastructure.

On the other hand, financial constraints could conceivably reduce the level of capital funding available to VRE or spread capital projects, including line extensions, over a longer period of time. In this case, the level of VRE service would grow more slowly,



- 101 - MAY 2004



and, consequently, VRE would capture a smaller share of the CBD work trip market, and development in the locations beyond the reach of the VRE network would tend to be less transit-focused than if VRE expansion progressed more rapidly.

7. PHASED CAPITAL INVESTMENT PLAN

The VRE Strategic Plan includes a three-phase program of capital investments to support and enable the planned steps in increased service and to respond to increasing levels of demand. The planned investment program corresponds with the three-phase evolution of the VRE operating plan described in the preceding section and attempts to keep pace with projected ridership demand. These costs exclude current projects for which funding already has been committed, such as the CSX MOU rail infrastructure capacity projects and the current parking lot expansion projects at Manassas and Woodbridge.

Three illustrative scenarios have been developed for the phased implementation of VRE capital projects, corresponding to the three potential strategies outlined in Section 3:

- 1. Targeted Growth
- 2. Aggressive Growth
- Deferred Growth

These scenarios bracket the low and high ends of the range of investment levels that will achieve VRE's long-term objectives. All three fully invest in VRE's core network needs – providing for parking expansion, new rolling stock, yard storage and fleet maintenance facilities. They vary with respect to the pace of investment and service expansion.

Through 2025, total required capital investment is projected to average in the range of \$35 million to as high as \$100 million per year in the case of the Aggressive Growth scenario (in constant 2003 dollars). Approximately \$10 million per year is currently available for discretionary capital projects. Unfortunately, Federal funds available to support the capital program are not keeping pace with ridership growth. This gap will need to be closed and the level of funding increased if VRE is to satisfy the increasing demands for its service and maintain its high standards of service quality.

The first scenario – Targeted Growth – spends capital money at an increasing rate through 2015 and focuses investment on the core network. It includes a phased program of line extensions that is limited in the early years, while core network needs are being addressed, However, it targets initial expansion into the Gainesville corridor, where the early presence of VRE can encourage transit-oriented development and provide a viable public transportation option for commuters to the central business district as well as reverse commuters. This is the "middle-of-the-road" scenario that matches the phased service improvement plan outlined in the previous section. Estimated capital costs by category of projects for this scenario are presented in Table 7-1. Capital needs are approximately \$47 million per year through the first six-year period (2009), and grow to approximately \$76 million per year in the 2010-2015 period. This program defines the investment that will be required, even in a fiscally-constrained





environment, to maintain a high level of service quality and improve VRE's market share as the region continues to develop and expand.

The second scenario – Aggressive Growth – front loads more of the investment, with the intent of bringing on line the service extension projects sooner, taking full advantage of the opportunity for VRE to influence regional development and travel patterns in a way that maximizes VRE's market potential. In this scenario, service extensions to Spotsylvania and Fauquier Counties, as well as run-through service to Maryland, are in place by 2015. This high-end plan requires investment over the next six years at an average of \$64 million per year, increasing to \$100 million per year between 2010 and 2015, as shown in Table 7-2.

The third scenario – Deferred Growth – is at the other end of the spectrum. It responds to today's financially-constrained environment and builds up the VRE service more slowly. Core network needs are still addressed, but projects are phased over a longer period of time, and line extensions are deferred until after 2015. Table 7-3 presents a summary of capital costs by time period. The plan estimates the minimum level of capital investment that will be necessary to preserve VRE's historical market share and maintain its level of service. Because the market for work trips to the business district continues to grow, the average annual level of capital expenditure in the early years will still need to increase to approximately \$35 million per year, significantly above the current level of \$10 to \$13 million per year. Over the long term, the lower level of investment in this scenario will make it difficult for the VRE to have a positive impact on development and travel patterns. In addition, in this scenario VRE will have greater difficulty staying ahead of the demand for its service, which will mean more crowded conditions on trains and in stations, greater reliance on modes other than drive-andpark for station access, and perhaps a lowering of overall service quality as perceived by VRE's riders, compared with the other two scenarios.

A more detailed breakdown of the major line items of capital investment requirements is provided in the Appendix. Each of the Strategic Plan scenarios assumes that station parking will have to be continually expanded over the 20-25 year period to keep pace with growing demand. New coaches and locomotives also will need to be acquired in stages over the next 20 years, initially to replace leased equipment and ultimately to keep pace with growing ridership and replace the single-level Mafersa cars.



- 103 - MAY 2004



Table 7-1
Estimated Capital Costs of VRE Strategic Plan
Mid-Range -- Targeted Growth

(All costs expressed in millions of 2003 dollars)

		2004-		2010-		2016-	Total
Project Category		2009		2015		2025	Cost
Station Parking Expansion	\$	47.3	\$	13.4	\$	9.0	\$ 69.7
Suburban Station Improvements	\$	19.7	\$	33.1	\$	39.6	\$ 92.4
Central Business District Stations	\$	5.0	\$	120.0	\$	40.0	\$ 165.0
New Suburban Stations	\$	-	\$	7.2	\$	11.0	\$ 18.2
VRE Network Expansion	\$	38.2	\$	19.8	\$	30.6	\$ 88.6
Train Storage and Maintenance Facilities	\$	20.0	\$	107.0	\$	-	\$ 127.0
Rail Infrastructure	\$	6.0	\$	34.1	\$	126.4	\$ 166.5
Rolling Stock	\$	174.1	\$	118.0	\$	100.2	\$ 392.3
							 = 1
TOTAL CAPITAL COST	\$	310.3	\$	452.6	\$	356.8	\$ 1,119.7

51.7 \$

69.2 \$

75.4 \$

98.3 \$

35.7 \$

35.0 \$

61.6

50.9

Table 7-2 Estimated Capital Costs of VRE Strategic Plan High end of Range -- Aggressive Growth

(All costs expressed in millions of 2003 dollars)

Average Annual Capital Cost

	2004- 20			2010-	2016-		Total
Project Category	:	2009		2015	2025		Cost
Station Parking Expansion	\$	57.1	\$	13.3	\$ 11.1	\$	81.5
Suburban Station Improvements	\$	19.7	\$	45.6	\$ 28.7	\$	94.0
Central Business District Stations	\$	75.0	\$	90.0	\$ -	\$	165.0
New Suburban Stations	\$	-	\$	16.9	\$ 4.1	\$	21.0
VRE Network Expansion	\$	38.2	\$	45.4	\$ 5.0	\$	88.6
Train Storage and Maintenance Facilities	\$	45.0	\$	107.0	\$ 5.0	\$	157.0
Rail Infrastructure	\$	6.0	\$	109.1	\$ 191.6	\$	306.7
Rolling Stock	\$	174.1	\$	162.5	\$ 104.8	\$	441.4
TOTAL CAPITAL COST	\$	415.1	\$	589.8	\$ 350.3	\$	1,355.2

Table 7-3 Estimated Capital Costs of VRE Strategic Plan Low End of Range -- Deferred Growth

(All costs expressed in millions of 2003 dollars)

Average Annual Capital Cost

an occid criprococa an manierio en 2000 denare,								
	2004-		2010-		2016-		Total	
Project Category		2009		2015		2025	Cost	
Station Parking Expansion	\$	30.1	\$	20.0	\$	12.8	\$ 62.9	
Suburban Station Improvements	\$	19.2	\$	15.5	\$	18.1	\$ 52.8	
Central Business District Stations	\$	2.0	\$	60.0	\$	60.0	\$ 122.0	
New Suburban Stations	\$	-	\$	6.2	\$	1.8	\$ 8.0	
VRE Network Expansion	\$	-	\$	-	\$	-	\$ -	
Train Storage and Maintenance Facilities	\$	12.0	\$	25.0	\$	25.0	\$ 62.0	
Rail Infrastructure	\$	-	\$	-	\$	25.0	\$ 25.0	
Rolling Stock	\$	174.1	\$	78.0	\$	45.8	\$ 297.9	

TOTAL CAPITAL COST Average Annual Capital Cost \$ 237.4 \$ 204.7 \$ 188.5 \$ 630.6 \$ 39.6 \$ 34.1 \$ 18.9 \$ 28.7





8. INSTITUTIONAL AND ORGANIZATIONAL ISSUES

VRE is outgrowing its original organizational framework – both in terms of the size and complexity of its operation, and its geographic extent. It has reached and surpassed the level of ridership for which it was originally designed. Normally, institutional and organizational issues would not be addressed directly in a plan such as this, which is intended primarily to address technical issues of ridership demand, railroad operations, infrastructure requirements and costs. However, part of the task assigned to VRE staff by the VRE Operations Board was to examine alternative funding sources for capital and operating requirements as well as alternative reporting structures for the operation of VRE. The study's technical work has led to the conclusion that the *status quo*, both in terms of VRE's operations and its financing structure, cannot be sustained into the future. Consequently, as the VRE Operations Board and the Commissions evaluate the Strategic Plan and set the course for VRE's future growth, they will need to engage in parallel discussions about how to fund that growth.

As the VRE continues to grow, it will evolve in several ways from a relatively modest start-up operation into a mature commuter railroad. If it is to preserve its excellent relationship with its customers and maintain the high quality of service that those customers have come to expect, the jurisdictions that fund VRE will need to step up to a significantly higher level of ongoing annual investment — both in terms of capital projects and operating subsidies. In the current environment, the local jurisdictions that make up VRE's governing commissions contribute a significant share of the annual capital and operating support for the VRE, but their ability to absorb a major increase in funding support for VRE is limited.

A general fact about public transportation service is that as ridership grows, so does the total subsidy required to cover the system's operating costs, since passenger fares cover less than two-thirds of the cost of running the trains. VRE outperforms most other commuter railroads in terms of the share of operating costs that it recovers from fares and other revenues. Carrying additional riders may create some economies of scale that can decrease the average subsidy per passenger trip, but the total annual subsidy dollars required still tends to increase as both ridership and the quantity of service increase.

Most of the easy and inexpensive capital projects to increase VRE's capacity have already been done. The next generation of projects will be more difficult and costly than those in the past – including parking structures, new station platforms with pedestrian bridges and elevators, new track construction, new and expanded train storage yards requiring acquisition of costly downtown property, and new facilities for VRE rolling stock maintenance. Compared with the cost of new highway or HOV lane construction (\$10+m/mi.), or the cost of adding/extending Metrorail lines (\$100+m/mi.) or building light rail lines (\$30+m/mi.), as estimated from recent projects in the region that have been either implemented or studied, VRE expansion at about \$5m/mi. can be considered relatively cost-effective. By investing in the VRE, the region will receive a tangible benefit in terms of rush hour people-moving capacity and mobility choice in the corridors served by VRE.

Many of the required projects will be eligible for Federal funding, and the costs of some projects will be able to be shared with other entities that benefit from them.



- 105 - MAY 2004



Nevertheless, the participating jurisdictions could be faced with securing the local match for a capital program in the range of \$60 to \$70 million or more per year. Making the financial commitments necessary to support higher levels of both capital and operating support for VRE will be a large challenge for the counties and municipalities that have become used to a total annual capital and operating subsidy that has remained under \$6 million for the last several years. Policy decisions will need to be made concerning the extent to which local support can be increased, the extent to which the pace of investment will need to be slowed in response to constrained funding, and the extent to which alternative sources of funding can be tapped.

Among the many possible ideas for alternative funding are several that could have an impact on the way VRE is organized, governed and financed. Travel demand pressures and local political pressures to extend and expand VRE service to new markets offers an opportunity for VRE to change the way in which it receives funds and increase the number of entities with a financial stake in VRE. The extension of VRE service to Virginia counties beyond the boundaries of the VRE commissions – such as Fauquier and Spotsylvania – will drive the need to find ways for these counties to become formal stakeholders and funding participants. One option is working within the existing commission structure – either changing the make-up of the existing commissions or creating one or more additional commissions.

It may be appropriate to adjust the role of the Commonwealth of Virginia in funding the expansion and ongoing operation of VRE, depending upon VRE's potential role in providing longer-distance passenger rail services in the Richmond and Charlottesville corridors or commuter rail services elsewhere in Virginia. Even within the existing VRE territory, several of the rail capacity projects included in the VRE Strategic Plan would have economic benefits for Virginia that extend beyond VRE's core commuter rail business – including benefits for long-distance high-speed rail service, and benefits for the freight railroads and shippers within Virginia that use the railroads.

Many in the region have advocated integrating or better coordinating the two independent commuter rail operations serving Washington, VRE and the MARC system in Maryland. Run through service is possible with capital investment, new track and terminal agreements with the host railroads, and an agreement between the two operating agencies at a minimum. Commuter service integration across state boundaries also raises broader institutional and organizational issues, posing constraints and creating opportunities that are beyond the scope of this work effort to explore — but which must be investigated before informed policy decisions can be made about run-through service. In any case, a strong partnership will be needed between Virginia and Maryland to advocate, fund and implement necessary and mutually-beneficial improvements to regional rail infrastructure.

The Federal government also has a strong interest in the service that the VRE provides and has a legitimate role to play in guiding its future – above and beyond the Federal Transit Administration's traditional role as regulator and conduit for Federal funds. Over half of VRE's customers work for agencies of the Federal government. The commuter rail network also links many Federal facilities – both military and civilian, such as Quantico Marine Base and Fort Belvoir in Virginia, Fort Meade and the Aberdeen Proving Ground in Maryland, the US Patent Office complex in Alexandria, and the Internal Revenue Service in New Carrollton, MD. The mobility offered by the regional rail system also has a role to play with respect to homeland security in the



- 106 - MAY 2004



nation's capital. On September 11, 2001, the commuter rail system was limited in its ability to aid the evacuation of the Capital. The Federal Government's interests in VRE should be explored as the rail system expands and evolves.

The proposed Washington-area train dispatching and operational control center is a project that offers significant benefits to all stakeholders in the region's rail system, including the states of Maryland and Virginia, the Federal Government, the freight railroads, and freight shippers in the region. Such a project will likely be linked to other major capital investment initiatives and would be more difficult to implement by a fragmented group of disparate agencies working independently than by a regional rail consortium or authority acting on behalf of the full range of rail-related interests in the region.

Regardless of the path chosen, VRE's future organization and governance structure should emphasize protecting perhaps one of its greatest assets – and the strong personal relationship that VRE management has forged with its riders, and a commitment to customer service of the highest quality.

9. FINANCIAL CHARACTERISTICS OF THE PLAN

Annual Operations and Maintenance Costs

For each phase of increased VRE service through 2025, annual operations and maintenance costs were estimated. Table 9.1 presents these estimates, in year 2003 dollars. These estimates include all operating costs, including access fees paid to the host railroads, but they exclude estimated annual debt service and operating reserve funding. The financial and subsidy calculations in the next section incorporate these factors. A range of estimates is presented for the Phase 2 and Phase 3 plans. The low end of the range corresponds to a rush-hour focused service with limited off-peak service (similar to today's operation) and ridership towards the low end of the spectrum. The high end of the cost range includes additional off-peak services and ridership towards the high end of the projected range.

The estimates assume a contract operation similar to that currently provided by Amtrak. One or more contracts are assumed to cover operation of the trains, on-board ticket inspection and maintenance of equipment. These estimates were based on historical experience, adjusted to reflect the likelihood of future increased costs in some areas and potential economies of scale in other areas as the overall volume of service and passenger traffic grows.

Costs for train and engine crews were factored up from historical rates based on the projected increase in number of train crews required. This number does not necessarily rise linearly with the number of trainsets in service in Phase 2 and Phase 3, since increasing levels of reverse-peak and off-peak service are assumed to be provided, and several (but not all) trainsets will require both a morning and an afternoon/evening crew, in cases where the trainset makes multiple round trips over the course of a day. Labor and material costs for maintenance of equipment are



- 107 - MAY 2004



assumed to grow proportionally to the size of the fleet. Historical average unit costs for servicing, inspection, maintenance and repair activities are assumed.

Table 9.1
Projected VRE Operations and Maintenance Costs

Cost Line Item	F	hase	1		Phase 2			Р	2 3	
	20)4 - 2	2009	9	201	0 - 2	2015	201	2025	
Contract Operator										
Operations	\$ 83.5	to	\$	88.4	\$113.0	to	\$147.4	\$212.9	to	\$286.6
Materials	\$ 4.7	to	\$	5.0	\$ 6.3	to	\$ 8.3	\$ 12.0	to	\$ 16.1
Incentives	\$ 3.8	to	\$	4.1	\$ 5.2	to	\$ 11.4	\$ 9.8	to	\$ 13.2
Management	\$ 15.6	to	\$	16.4	\$ 19.9	to	\$ 21.9	\$ 44.6	to	\$ 54.7
Other	\$ 10.8	to	\$	11.5	\$ 14.7	to	\$ 19.2	\$ 27.7	to	\$ 37.2
Railroad Access										
Amtrak Fees	\$ 6.0	to	\$	6.0	\$ 7.8	to	\$ 10.2	\$ 14.6	to	\$ 19.8
CSX Fees	\$ 23.4	to	\$	27.0	\$ 29.4	to	\$ 42.0	\$ 55.0	to	\$ 81.0
NS Fees	\$ 13.8	to	\$	13.8	\$ 20.2	to	\$ 25.9	\$ 38.4	to	\$ 50.4
Station Maintenance	\$ 9.9	to	\$	10.6	\$ 12.5	to	\$ 13.8	\$ 27.7	to	\$ 34.4
Ticketing Costs	\$ 5.0	to	\$	5.3	\$ 6.3	to	\$ 7.0	\$ 14.1	to	\$ 17.5
Administrative	\$ 1.4	to	\$	1.6	\$ 1.8	to	\$ 2.1	\$ 2.5	to	\$ 3.4
TOTAL OPERATIONS & MAINTENANCE COST	\$177.9	to	\$	189.7	\$237.1	to	\$309.2	\$ 459.3	to	\$614.3
Average Annual O&M Cost	\$ 29.7	to	\$	31.6	\$ 39.5	to	\$ 51.5	\$ 45.9	to	\$ 61.4

On-time performance incentive payments are assumed to be paid to the contract operator, based on current contract rates, assuming that the system achieves an average level of 95 percent on-time performance.

Access fees are assumed to be paid to Amtrak as the owner of Washington Terminal and to CSX and Norfolk Southern (NS), owners of the railroad lines over which VRE trains operate. The CSX and NS fees are assumed to be calculated on a train-mile basis, using the current rate, adjusted by the increased number of train miles projected to be operated in each phase. Washington Terminal access fees are calculated based on current contract costs per train, factored up to account for increasing numbers of trains operated and stored at the terminal. As the level of VRE traffic grows, assessing track access costs on a train-mile basis may not be the most appropriate method, particularly if VRE or the State has invested in substantial increased line capacity. Alternatives that cover the railroads' maintenance of way costs and provide for a reasonable fee and be explored during the process of negotiating updated operating and access agreements.

Station maintenance costs, ticketing and ticket processing costs and general administrative costs are factored up from historical rates, based on projected passenger volume growth.



- 108 - MAY 2004



Required Subsidy Level

Two key financial performance indicators have been estimated for VRE through 2025, derived from estimated future ridership and operating costs, and based on a number of underlying assumptions. These indicators are:

- Recovery ratio
- Non-Federal annual capital and operating subsidy.

The recovery ratio is defined to be the percentage of annual operating costs that are covered by passenger fares. VRE historically has been able to achieve recovery ratios in the range of 60 percent. Moving forward, as ridership builds and average train passenger loads increase, economies of scale will tend to lower the unit cost per passenger of operating trains. On the other hand, increasing the total number of trains operated, particularly the expansion of off-peak and reverse commute service and also peak zone express service, will tend to increase operating costs faster than revenue.

The non-Federal subsidy is an estimate of the costs that will need to be generated by the VRE participating jurisdictions and major stakeholders such as the Commonwealth of Virginia – to cover VRE's annual operating deficit and capital investment program. Since commuter rail is not a profitable venture, these subsidies will inevitably increase as the size of VRE operations and its base of ridership increases. This will require the entities that now provide funding support for VRE to increase the level of that support. However, the potential exists to mitigate these effects on the local participating jurisdictions by seeking additional new sources of funding, increasing the level of State funding because of the wider benefits of rail system investment, and/or finding private sector funding partners.

Many variables, including many not directly addressed in the Strategic Plan, will affect these indicators as well as the overall financial performance of VRE in the future. Among these variables are:

- Fare policy
- External economic and other factors influencing ridership demand
- The pace and extent of required capital investment
- The number of trains operated by VRE
- The level of Federal funding
- The level of State and third-party funding.
- Level of debt financing undertaken.

To determine the relative financial characteristics and subsidy requirements of the three strategic plan scenarios, a common set of assumptions was applied to the factors affecting the local and other non-Federal share of the overall subsidy, including both capital and operating components:

- Inflation of access fees at 4 percent per annum
- Inflation of other operating costs at 3 percent per annum



- 109 - MAY 2004



- Ridership levels midway between the high and low ends of the range
- Fares increasing on average at 2 percent per annum
- Federal share of CIP capital costs at 80 percent.

VRE financing is a delicate balance of federal funding, state funding, local government funding, and the farebox. There is no stable, replenishable source of dedicated funds, so the various levels of government involved in sponsoring the VRE will need to agree among themselves on the apportionment of funding responsibility. There are several options open to VRE's stakeholders, which are not all able to be thoroughly evaluated in the context of this study.

Tables 9-2 through 9-4 present estimates of the financial performance indicators, for each of the three growth scenarios that are consistent with VRE's Strategic Plan objectives: Targeted Growth, Aggressive Growth and Deferred Growth. For purposes of presentation, Federal funds are assumed to cover 80 percent of all capital costs for infrastructure and rolling stock projects, and the level of committed state and local capital and operating funding support is carried forward at FY2004 levels, increasing only by the rate of inflation. After these assumptions are made, the remaining estimated funding shortfall is calculated – by year through 2009 and averaged for the 2010-2015 and 2016-2025 periods. The magnitude of the shortfall varies by scenario and is projected to increase over time.

Within any given scenario, changes to any of the above variables could significantly affect the level of local subsidy. Further analysis, outside the scope of this strategic planning effort, will be required to determine the sensitivity of local subsidy estimates to fare policy and other factors.

On balance, to the extent that VRE increases fares over time at a rate generally in line with cost inflation, the VRE recovery ratio is projected to remain at or above the 60 percent level in each scenario. Growing ridership demand will tend to increase average train loads, which can be carried by VRE more efficiently on a per capita basis. This will tend to offset projected higher costs with respect to railroad access fees and service expansion.

The funding shortfall in future years will need to be covered by some combination of the following funding sources:

- Increased Federal funding
- Increased State funding
- Increased funding from existing local VRE member jurisdictions
- Local funding contributions from potential new VRE member jurisdictions
- Funding from other sources (e.g., freight railroads, developers)
- Creative financing mechanisms to defer or spread expenditures (e.g., equipment leases)
- Additional revenue (e.g., increased fares, parking fees).



- 110 - MAY 2004



Required non-Federal subsidy levels are shown to increase significantly in connection with increased levels of investment in the higher-growth scenarios. Even in the most financially conservative scenario, Constrained Growth, the estimated level of non-Federal subsidy will increase from \$14.6 million in FY2002 to the range of \$23 to \$28 million between FY2004 and FY2009, reflecting the increase in required capital investment in fleet, parking and train storage, as well as the loss of about \$3 million per year in debt service reserve funds that were available in 2002 and prior years. If the State were to contribute to funding these costs at its historical 60 percent level, and no new sources of funds were identified, the subsidy from the local jurisdictions would increase from the historical \$5.6 million level to the \$9 to \$11 million range over the next 5-6 years.

The Targeted Growth scenario requires annual non-Federal capital plus operating subsidies in the \$26 to \$36 million range through 2009, or between \$3 and \$8 million more per year than the Constrained Growth scenario – driven primarily by the higher rate of capital expenditures. The Aggressive Growth scenario requires even more non-Federal investment and subsidy – in the \$29 to \$41 million range over the next six years. This may very well put this strategy beyond the reach of the current organizational and funding structure of VRE. However, opportunities for funding partnerships also are greater in the higher growth scenarios. To the extent that there are VRE stakeholders interested in pursuing aggressive near-term expansion of the VRE network, this analysis shows that long-term sources of funding in the range of \$5 to \$7 million per year, over and above the level of funding required for the Targeted Growth scenario will need to be found.

The local participating jurisdictions historically have funded approximately 40 percent of the non-Federal capital and operating subsidy. As the total required subsidy increases in the future, the local jurisdictions will not necessarily have to cover the same proportion of the subsidy. Third party contributions, particularly to the local share of capital costs, will be able to be obtained from developers and the freight railroads. Financial contributions are also anticipated on the part of the counties where VRE service is added, such as Fauquier and Spotsylvania, to help offset the incremental costs of extending and operating the service. Also, increasing the level of State participation is a possibility, to the extent that VRE capital projects will generate wider benefits to the State (including the benefits of improved intercity passenger rail service and improved freight service to shippers) than just those realized by the VRE commuter market.

Both fare policy and the level of funding support from other sources, for either capital requirements or operations, are crucial issues with respect to establishing the level of subsidy that will need to be generated from the VRE participating jurisdictions.

The scope of the Strategic Plan does not encompass the setting of fare policy or budgets for VRE, although information from the Strategic Plan can be used to inform these activities. The VRE Audit and Finance Committee can use the results of this analysis to develop budget alternatives for future fiscal years.



- 111 - MAY 2004



Table 9.2
Estimated Recovery Ratio and Required Non-Federal Subsidy – Targeted Growth Scenario

Costs in Thousands of Dollars, Year of Expenditure

Costs III Thousands of Dollars, Teal of Expericiture	PHASE 1						P	HASE 2	PH	IASE 3
							/	Average	Α١	/erage
	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	F)	[′] 2010-15	FY:	2016-25
OPERATIONS										
Annual Operating Cost										
Track and Terminal Access Fees	\$ 7.045	\$ 8,112	\$ 8,436	\$ 9,749	\$ 11,153	\$ 12,653	\$	18,144	\$	25,958
Operating Expenses	\$ 21.564	\$ 25.482	\$ 27.244	\$ 29,088	\$ 31.019	\$ 33.039	\$	49.497	\$	67,864
Other Expenses	\$ 11,260	\$ 11,598	\$ 11,946	\$ 12,304	\$ 12,673	\$ 13,053	\$	14,476	\$	18,338
Total	\$ 39,869	\$ 45,192	\$ 47,626	\$ 51,141	\$ 54,845	\$ 58,746	\$	82,117		112,160
Income										
Fare Revenue	\$ 16.305	\$ 18,972	\$ 20,256	\$ 21,601	\$ 22,992	\$ 24,430	\$	30,256	\$	42,740
Other Income, including Federal grants	\$ 8.323	\$ 7,275	\$ 7.275	\$ 7,275	\$ 7,275	\$ 7,275	\$	7,275	\$	7,275
Total	\$ 24,628	\$ 26,247	\$ 27,531	\$ 28,876	\$ 30,267	\$ 31,705	\$	37,531	\$	50,015
Annual Operating Deficit	\$ 15,241	\$ 18,945	\$ 20,096	\$ 22,265	\$ 24,578	\$ 27,040	\$	44,586	\$	62,144
CAPITAL										
Annualized Capital Cost	\$ 11,327	\$ 55,512	\$ 57,177	\$ 58,893	\$ 60,659	\$ 62,479	\$	98,222	\$	61,724
Federal Contribution	\$ 9,584	\$ 44,409	\$ 45,742	\$ 47,114	\$ 48,527	\$ 49,983	\$	78,578	\$	49,379
Debt Service Reserve Fund (unavailable after '03)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	· -	\$	-
Non-Federal Contribution	\$ 1,743	\$ 11,102	\$ 11,435	\$ 11,779	\$ 12,132	\$ 12,496	\$	19,644	\$	12,345
Non-Federal Capital+Operating Subsidy	\$ 16,984	\$ 30,048	\$ 31,531	\$ 34,044	\$ 36,709	\$ 39,536	\$	64,231	\$	74,489
State Contribution at FY 2004 Level*	\$ 11,176	\$ 11,511	\$ 11,856	\$ 12,212	\$ 12,578	\$ 12,955	\$	14,367	\$	18,200
Local Contribution at FY 2004 Level*	\$ 6,353	\$ 6,544	\$ 6,740	\$ 6,942	\$ 7,150	\$ 7,365	\$	8,168	\$	10,347
Capital+Operating Funding Shortfall**	\$ (545)	\$ 11,993	\$ 12,935	\$ 14,890	\$ 16,981	\$ 19,216	\$	41,696	\$	45,943
Operating Cost Recovery Ratio	75.6%	74.5%	74.3%	74.3%	74.1%	73.9%		61.1%		63.0%

^{*}Adjusted for inflation at 3 percent per annum.

**Note:

The funding shortfall in future years will need to be covered by some combination of the following funding sources:

- > Increased Federal funding
- > Increased State funding
- > Increased funding from existing local VRE member jurisdictions
- > Local funding contributions from potential new VRE member jurisdictions
- > Funding from other sources (e.g., freight railroads, developers)
- > Creative financing mechanisms to defer or spread expenditures (e.g., equipment leases)
- > Additional revenue (e.g., increased fares, parking fees).



- 112 - MAY 2004



Table 9.3
Estimated Recovery Ratio and Required Non-Federal Subsidy – Aggressive Growth Scenario

Costs in Thousands of Dollars, Year of Expenditure

Costs III Modsands of Dollars, Tear of Experioliture	PHASE 1						П	PHASE 2	İ	PH	IASE 3
								Average	Ī	A۱	/erage
	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		Y 2010-15		FY 2	2016-25
OPERATIONS											
Annual Operating Cost											
Track and Terminal Access Fees	\$ 7,045	\$ 8,112	\$ 8,436	\$ 9,936	\$ 11,543	\$ 13,262	\$	19,539		\$	28,842
Operating Expenses	\$ 21,564	\$ 25,791	\$ 27,880	\$ 30,072	\$ 32,370	\$ 34,778	\$	52,711		\$	75,404
Other Expenses	\$ 11,260	\$ 11,598	\$ 11,946	\$ 12,304	\$ 12,673	\$ 13,053	\$	14,476		\$	18,338
Total	\$ 39,869	\$ 45,501	\$ 48,263	\$ 52,312	\$ 56,585	\$ 61,093	\$	86,726		\$ 1	122,584
<u>Income</u>											
Fare Revenue	\$ 16,305	\$ 18,972	\$ 20,815	\$ 22,582	\$ 24,411	\$ 26,305	\$	34,003		\$	50,475
Other Income, including Federal grants	\$ 8,323	\$ 7,275	\$ 7,275	\$ 7,275	\$ 7,275	\$ 7,275	\$	7,275		\$	7,275
Total	\$ 24,628	\$ 26,247	\$ 28,090	\$ 29,857	\$ 31,686	\$ 33,580	\$	41,278		\$	57,750
Annual Operating Deficit	\$ 15,241	\$ 19,254	\$ 20,172	\$ 22,455	\$ 24,899	\$ 27,513	\$	45,448		\$	64,834
CAPITAL											
Annualized Capital Cost	\$ 11,327	\$ 77,101	\$ 79,414	\$ 81,796	\$ 84,250	\$ 86,777	\$	128,949		\$	74,427
Federal Contribution	\$ 9,584	\$ 61,681	\$ 63,531	\$ 65,437	\$ 67,400	\$ 69,422	\$	103,159		\$	59,542
Debt Service Reserve Fund (unavailable after '03)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-		\$	-
Non-Federal Contribution	\$ 1,743	\$ 15,420	\$ 15,883	\$ 16,359	\$ 16,850	\$ 17,355	\$	25,790		\$	14,885
Non-Federal Capital+Operating Subsidy	\$ 16,984	\$ 34,674	\$ 36,055	\$ 38,814	\$ 41,749	\$ 44,869	\$	71,238		\$	79,720
State Contribution at FY 2004 Level*	\$ 11,176	\$ 11,511	\$ 11,856	\$ 12,212	\$ 12,578	\$ 12,955	\$	14,367		\$	18,200
Local Contribution at FY 2004 Level*	\$ 6,353	\$ 6,544	\$ 6,740	\$ 6,942	\$ 7,150	\$ 7,365	\$	8,168		\$	10,347
Capital+Operating Funding Shortfall**	\$ (545)	\$ 16,619	\$ 17,459	\$ 19,660	\$ 22,021	\$ 24,549	\$	48,703		\$	51,173
Operating Cost Recovery Ratio	75.6%	73.6%	74.7%	75.1%	75.4%	75.6%		64.5%			66.9%

^{*}Adjusted for inflation at 3 percent per annum.

**Note:

The funding shortfall in future years will need to be covered by some combination of the following funding sources:

- > Increased Federal funding
- > Increased State funding
- > Increased funding from existing local VRE member jurisdictions
- > Local funding contributions from potential new VRE member jurisdictions
- > Funding from other sources (e.g., freight railroads, developers)
- > Creative financing mechanisms to defer or spread expenditures (e.g., equipment leases)
- > Additional revenue (e.g., increased fares, parking fees).



- 113 - MAY 2004



Table 9.4
Estimated Recovery Ratio and Required Non-Federal Subsidy –
Deferred Growth Scenario

Costs in Thousands of Dollars, Year of Expenditure

	PHASE	1] [PHASE 2	Ì	Р	HASE 3
									Average		P	verage
	FY 20	04	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		FY 2010-15		FY	2016-25
OPERATIONS												
Annual Operating Cost												
Track and Terminal Access Fees	\$ 7,0	-	\$ 8,112	\$ 8,436	\$ 9,651	\$ 10,037	\$ 10,439		\$ 13,172		\$	19,830
Operating Expenses	\$ 21,5		\$ 24,514	\$ 25,249	\$ 27,307	\$ 28,126	\$ 28,970		\$ 35,341		\$	48,695
Other Expenses	\$ 11,2	60	\$ 11,598	\$ 11,946	\$ 12,304	\$ 12,673	\$ 13,053		\$ 14,476		\$	18,338
Total	\$ 39,8	69	\$ 44,224	\$ 45,632	\$ 49,263	\$ 50,837	\$ 52,463		\$ 62,989		\$	86,863
Income												
Fare Revenue	\$ 16.3	05	\$ 18,972	\$ 19,910	\$ 20,879	\$ 21,878	\$ 22,909		\$ 26,199		\$	34,080
Other Income, including Federal grants	\$ 8,3	23	\$ 7,275	\$ 7,275	\$ 7.275	\$ 7,275	\$ 7.275		\$ 7,275		\$	7,275
Total	\$ 24,6	28	\$ 26,247	\$ 27,185	\$ 28,154	\$ 29,153	\$ 30,184		\$ 33,474		\$	41,355
Annual Operating Deficit	\$ 15,2	41	\$ 17,977	\$ 18,446	\$ 21,109	\$ 21,684	\$ 22,278		\$ 29,516		\$	45,509
CAPITAL												
Annualized Capital Cost	\$ 11,3	27	\$ 40,556	\$ 41,773	\$ 43,026	\$ 44,317	\$ 45,646		\$ 83,823		\$	101,462
Federal Contribution	\$ 9,5	84	\$ 32,445	\$ 33,418	\$ 34,421	\$ 35,454	\$ 36,517		\$ 67,059		\$	81,169
Debt Service Reserve Fund (unavailable after '03)	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -		\$ -		\$	-
Non-Federal Contribution	\$ 1,7	43	\$ 8,111	\$ 8,355	\$ 8,605	\$ 8,863	\$ 9,129		\$ 16,765		\$	20,292
Non-Federal Capital+Operating Subsidy	 \$ 16.9	84	\$ 26.088	\$ 26.801	\$ 29.714	\$ 30.547	\$ 31.408		\$ 46,280		\$	65.801
State Contribution at FY 2004 Level*	\$ 11,1		\$ 11,511	\$ 11,856	\$ 12,212	\$ 12,578	\$ 12,955		\$ 14,367		\$	18,200
Local Contribution at FY 2004 Level*	\$ 6,3		\$ 6,544	\$ 6,740	\$ 6,942	\$ 7,150	\$ 7,365		\$ 8,168		\$	10,347
Capital+Operating Funding Shortfall**	\$ (5	45)	\$ 8,033	\$ 8,205	\$ 10,560	\$ 10,819	\$ 11,088		\$ 23,746		\$	37,254
Operating Cost Recovery Ratio	75.	6%	77.4%	78.9%	76.5%	77.8%	79.1%		74.1%			70.0%

^{*}Adjusted for inflation at 3 percent per annum.

**Note:

The funding shortfall in future years will need to be covered by some combination of the following funding sources:

- > Increased Federal funding
- > Increased State funding
- > Increased funding from existing local VRE member jurisdictions
- > Local funding contributions from potential new VRE member jurisdictions
- > Funding from other sources (e.g., freight railroads, developers)
- > Creative financing mechanisms to defer or spread expenditures (e.g., equipment leases)
- > Additional revenue (e.g., increased fares, parking fees).



- 114 - MAY 2004