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NORTHERN VIRGINIA TRANSPORTATION COMMISSION
ESTIMATED FINANCIAL REQUIREMENTS FOR PUBLIC TRANSPORTATION

Fiscal Year (1)	NRTC Program and Projects	Metrobus		Metrorail		Total NRTC	
		Operating	Capital	Operating	Capital	Operating	Capital
1969	\$ 85,000	\$ -0-	\$ -0-	\$ -0-	\$ -0-	\$ 85,000	\$ 85,000
1970	93,300	-0-	-0-	16,918,000	16,918,000	93,300	17,011,300
1971	191,400	-0-	-0-	24,658,000	24,658,000	191,400	24,849,400
1972	223,200	-0-	-0-	25,362,000	25,362,000	223,200	25,585,200
1973	513,700	578,000	9,700,000	23,516,000	1,091,700	33,216,000	34,307,700
Subtotal	\$1,106,600	\$ 578,000	\$ 9,700,000 (2)	\$ 90,454,000	\$ 1,684,600	\$100,154,000	\$101,838,600
1974	\$ 496,700	\$ 4,703,900	\$ 785,400	\$ 17,696,000	\$ 5,200,600	\$ 18,481,400	\$ 23,682,000
1975	480,100	9,722,900	1,303,500	29,327,000	10,203,000	30,630,500	40,833,500
1976	484,100	12,995,200	1,158,700	34,239,000	13,479,300	35,397,700	48,877,000
1977	521,500	15,697,900	1,376,400	25,279,000	16,219,400	26,655,400	42,874,800
1978	562,900	18,489,500	897,900	11,619,000	19,052,400	12,516,900	31,569,300
1979	609,000	21,463,600	811,100	-0-	22,072,600	811,100	22,883,700
1980	660,500	24,600,900	383,200	-0-	25,261,400	383,200	25,644,600
Subtotal	3,841,800	107,673,900	6,716,200 (3)	118,160,000	111,488,700	124,876,200	236,364,900
Grand Total	\$4,921,400	\$108,251,900	\$16,416,200	\$208,614,000	\$113,173,300	\$225,030,200	\$338,203,500

Notes:

- (1) Fiscal Year ends June 30.
- (2) Metrobus capital local share based on 2/3-1/3 (Fiscal Year 1973 only).
- (3) Metrobus capital local share based on 80/20 (Fiscal Year 1974-Fiscal Year 1980).

NORTHERN VIRGINIA TRANSPORTATION COMMISSION
COMPARATIVE OPERATING REVENUE AND EXPENSE ANALYSIS

	Fiscal Year (1)			
	1974	1975	1976	1977
Bus Miles Operated	50,980,000	56,475,000	57,163,000	57,510,000
			57,510,000	57,510,000
<u>WMATA Projection:</u>				
Total Operating Revenue		\$1.169	\$1.222	\$1.310
Revenue Per Bus Mile	\$1.23	5.099%	5.833%	7.80%
Percent Change				8.026%
Total Operating Expenses		\$1.73	\$1.90	\$2.03
Cost Per Bus Mile	\$1.52	13.82%	9.83%	6.84%
Percent Change				\$2.16
				6.40%
<u>Stone & Webster Projection:</u>				
Total Operating Revenue		\$1.123	\$1.139	\$1.144
Revenue Per Bus Mile	\$1.187	5.39%	1.43%	0.44%
Percent Change				\$1.148
Total Operating Expenses		\$1.735	\$1.946	\$2.112
Cost Per Bus Mile	\$1.523	13.93%	12.16%	8.53%
Percent Change				\$2.284
				8.14%

Notes:

- (1) Fiscal Year ends June 30.
- (2) Comparable data not available beyond Fiscal Year 1978.

NORTHERN VIRGINIA TRANSPORTATION COMMISSION

TOTAL OPERATING EXPENSES PER VEHICLE MILE - SELECTED CITIES

	<u>1969</u>	<u>1970</u> (Cents per Vehicle Mile)	<u>1971</u> (Cents per Vehicle Mile)	<u>1972</u>
<u>Privately Owned Transit Systems</u>				
Buffalo	97.58¢	105.16¢	118.02¢	128.10¢
Cincinnati	85.03	91.01	100.12	107.17
Columbus	86.37	90.25	93.26	100.40
Jacksonville	64.45	69.42	73.27	76.98
Milwaukee	80.32	87.36	92.37	98.77
New Orleans	108.46	99.93	107.34	114.02
<u>Publicly Owned Transit Systems</u>				
Baltimore	105.48¢	105.39¢	108.39¢	115.55¢(1)
Chicago	125.46	137.56	148.56	N.A.
Cleveland	N.A.	73.66	117.44	83.99
Dallas	74.25	79.14	81.51	86.88
Los Angeles	87.05	95.96	106.64	121.30
Miami	105.48	82.43	90.04	98.70
New York	166.94	193.86	217.94	211.96(1)
Oakland	78.15	86.19	91.16	98.87
Pittsburgh	N.A.	118.37	128.24	N.A.
San Diego	82.42	89.84	92.51	108.90(1)
Rochester	85.83	101.94	111.94	118.68

Notes:

(1) - Fiscal Year 7/1/71 through 6/30/72.

N.A. - Not Available.

NORTHERN VIRGINIA TRANSPORTATION COMMISSION

TOTAL OPERATING REVENUE PER VEHICLE MILE - SELECTED CITIES

	<u>1969</u>	<u>1970</u> (Cents per Vehicle Mile)	<u>1971</u> (Cents per Vehicle Mile)	<u>1972</u>
<u>Privately Owned Transit Systems</u>				
Buffalo	94.90¢	106.34¢	118.64¢	124.95¢
Cincinnati	89.37	94.37	102.75	113.91
Columbus	89.43	96.41	101.86	101.93
Jacksonville	66.39	69.20	71.90	72.54
Milwaukee	81.62	90.19	93.38	100.40
New Orleans	58.14	77.73	79.38	77.66
<u>Publicly Owned Transit Systems</u>				
Baltimore	110.78¢	112.92¢	112.97¢	114.18¢(1)
Chicago	132.45	137.71	146.68	142.72 (2)
Cleveland	N.A.	108.13	123.64	126.04
Dallas	74.26	78.03	84.12	83.51
Los Angeles	87.89	85.05	82.58	80.43
Miami	N.A.	82.11	84.84	86.40
New York	141.18	189.60	188.42	194.36 (1)
Oakland	63.69	62.73	62.06	60.85
Pittsburgh	N.A.	87.72	91.33	N.A.
San Diego	68.91	65.90	67.88	66.21 (1)
Rochester	90.79	87.48	100.47	111.53

Notes:

(1) - Fiscal Year 7/1/71 through 6/30/72.

(2) - Passenger miles only.

N.A. - Not Available.

NORTHERN VIRGINIA TRANSPORTATION COMMISSION
COMPARISON OF REVENUE AND COST PER PASSENGER (1972) - SELECTED CITIES

	Revenue (1) Per <u>Passenger</u>	Cost (2) Per <u>Passenger</u> (Cents per Passenger)	Gain (Loss) Per <u>Passenger</u>
<u>Privately Owned Transit Systems</u>			
Buffalo	24.18¢	24.05¢	0.13¢
Cincinnati	41.34	40.28	1.06
Columbus	N.A.	N.A.	N.A.
Jacksonville	32.58	33.20	(0.62)
Milwaukee	23.90	23.52	0.38
New Orleans	9.69	14.22	(4.53)
<u>Publicly Owned Transit Systems</u>			
Baltimore	22.36¢ (3)	22.62¢ (3)	(0.26)¢ (3)
Chicago	48.98	N.A.	N.A.
Cleveland	N.A.	N.A.	N.A.
Dallas	32.88	31.86	1.02
Los Angeles	25.20	38.53	(13.33)
Miami	22.98	26.25	(3.27)
New York	33.77 (3)	36.83 (3)	(3.06) (3)
Oakland	24.44	39.71	(15.27)
Pittsburgh	N.A.	N.A.	N.A.
San Diego	34.72 (3)	57.10 (3)	(22.38) (3)
Rochester	30.86	34.39	(3.53)

Notes:

- (1) - Total revenue to total passengers.
 - (2) - Total cost to total passengers.
 - (3) - Fiscal Year 7/1/71 through 6/30/72.
- N.A. - Not Available

NORTHERN VIRGINIA TRANSPORTATION COMMISSION

SHIRLEY HIGHWAY PROJECT
ASSUMING PURCHASE BY WMATA

	<u>Date in Service</u>	<u>Original Cost</u>	<u>Estimated Life (Years)</u>	<u>Annual Depreciation Rate - Percent</u>	<u>Annual Depreciation</u>	<u>Monthly Depreciation</u>	<u>Months to 1/1/75</u>	<u>Depreciation to 1/1/75</u>	<u>Net Value 1/1/75</u>
30 Buses @ \$40,124	June 1971	\$1,203,700	14	7.143	\$85,980	\$7,165	43	\$308,100	\$ 895,600
20 Buses @ \$45,849	February 1972	917,000	14	7.143	65,500	5,458	35	191,000	726,000
10 Buses @ \$45,142	June 1972	451,400	14	7.143	32,244	2,687	31	83,300	368,100
16 Buses @ \$44,745	September 1972	715,900	14	7.143	51,137	4,261	28	119,300	596,600
<u>16 Buses @ \$44,091</u>	February 1973	<u>617,300</u>	14	7.143	44,094	3,675	23	84,500	532,800
90		3,905,300							
4-Bay Maintenance Facility	September 1973	187,700	50	2.000	3,754	313	16	786,200	3,119,100
								5,000	182,700
								<u>\$791,200</u>	<u>\$3,301,800</u>

NORTHERN VIRGINIA TRANSPORTATION COMMISSION

SHIRLEY HIGHWAY PROJECT
ASSUMING PURCHASE BY WMATA

Work Sheet

Purchase by WMATA:

Total Requirement	\$3,301,800
80% from UMTA	<u>2,641,440(4)</u>
20% from D.C., Md. & Va.	<u>\$ 660,360</u>
Va. Portion @ 28.3%	<u>\$ 186,882(2)</u>

NVTC Cost:

5% of \$3,905,300
33.33% of \$187,700

\$ 195,265
<u>62,567</u>
<u>257,832</u>

NVTC Net Value 1/1/75:

5% of \$3,119,100	\$ 155,955
33.33% of \$182,700	<u>60,900</u>
	<u>216,855(1)</u>

UMTA Grant:

95% of \$3,905,300
66.67% of \$187,700

3,710,035
<u>125,133</u>
<u>3,835,168</u>

UMTA Net Value 1/1/75:

95% of \$3,119,100	2,963,145
66.67% of \$182,700	<u>121,800</u>
	<u>3,084,945(3)</u>

\$4,093,000

\$3,301,800

NVTC Position at 1/1/75:

Due from WMATA	\$ 216,855(1)
Due to WMATA	<u>186,882(2)</u>
Net to NVTC	<u>\$ 29,973</u>

UMTA Position at 1/1/75:

Due from WMATA	\$3,084,945(3)
Due to WMATA	<u>2,641,400(4)</u>
Net to UMTA	<u>\$ 443,505</u>

NORTHERN VIRGINIA TRANSPORTATION COMMISSION
METROBALL CAPITAL CONTRIBUTIONS PAYMENT SCHEDULE BY JURISDICTION

	Prior Years (1970-1973)	Fiscal Year 1974	Fiscal Year 1975	Fiscal Year 1976	Fiscal Year 1977	Fiscal Year 1978	Fiscal Years (2) 1978-1980 Totals	Fiscal Years 1970-1980 Totals
Alexandria:								
Unallocated Costs	\$ -0-	\$ -0-	\$ -0-	\$ -0-	\$ -0-	\$ -0-	\$ -0-	\$ -0-
50% Match: Subs. Bonds	-0-	-0-	3,068,000 (1)	5,061,000	1,170,000	-0-	9,299,000	9,299,000
Facilities for Handicapped	-0-	-0-	187,000 (1)	132,000	93,000	33,000	715,000	715,000
			270,000					
Subtotal	-0-	-0-	3,255,000	5,193,000	1,263,000	33,000	10,014,000	10,014,000
(ARS-68) Capital Contribution Agreement	18,472,000	3,614,000	2,489,000	1,874,000	3,210,000	261,000	12,128,000	30,600,000
Total	18,472,000	3,614,000	6,014,000	7,067,000	5,113,000	274,000	22,162,000	40,614,000
Arlington:								
Unallocated Costs	-0-	-0-	-0-	-0-	-0-	4,911,000	4,911,000	4,911,000
50% Match: Subs. Bonds	-0-	-0-	5,675,000	9,361,000	2,165,000	-0-	17,201,000	17,201,000
Facilities for Handicapped	-0-	-0-	360,000 (1)	255,000	180,000	64,000	1,378,000	1,378,000
			519,000					
Subtotal	-0-	-0-	6,554,000	9,616,000	2,345,000	4,975,000	27,690,000	27,690,000
(ARS-68) Capital Contribution Agreement	12,298,000	6,375,000	4,392,000	3,806,000	6,903,000	9,326,000	21,612,000	21,612,000
Total	12,298,000	6,375,000	10,946,000	12,422,000	9,248,000	5,411,000	46,982,000	49,302,000
Fairfax County:								
Unallocated Costs	-0-	-0-	198,000	326,000	-0-	-0-	-0-	-0-
50% Match: Subs. Bonds	-0-	-0-	16,000 (1)	9,000	75,000	-0-	599,000	599,000
Facilities for Handicapped	-0-	-0-	20,000	7,000	2,000	2,000	52,000	52,000
Subtotal	-0-	-0-	232,000	335,000	82,000	2,000	651,000	651,000
(ARS-68) Capital Contribution Agreement	1,576,000	308,000	212,000	160,000	333,000	11,000	1,024,000	2,600,000
Total	1,576,000	308,000	444,000	495,000	515,000	13,000	1,675,000	3,251,000
Falls Church:								
Unallocated Costs	-0-	-0-	-0-	-0-	-0-	5,311,000	5,311,000	5,311,000
50% Match: Subs. Bonds	-0-	-0-	5,774,000	9,525,000	2,203,000	-0-	17,501,000	17,501,000
Facilities for Handicapped	-0-	-0-	401,000 (1)	283,000	201,000	71,000	1,334,000	1,334,000
			578,000					
Subtotal	-0-	-0-	8,753,000	9,807,000	2,404,000	5,382,000	24,346,000	24,346,000
(ARS-68) Capital Contribution Agreement	37,349,000	7,307,000	5,033,000	3,789,000	7,910,000	512,000	24,551,000	61,900,000
Total	37,349,000	7,307,000	11,786,000	13,596,000	10,314,000	5,894,000	48,897,000	86,246,000
Total Program:								
Unallocated Costs	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-
50% Match: Subs. Bonds	-0-	-0-	66,000	109,000	25,000	-0-	200,000	200,000
Facilities for Handicapped	-0-	-0-	3,000 (1)	2,000	2,000	1,000	13,000	13,000
			5,000					
Subtotal	-0-	-0-	74,000	111,000	27,000	1,000	213,000	213,000
(ARS-68) Capital Contribution Agreement	469,000	92,000	63,000	48,000	102,000	26,000	331,000	800,000
Total	469,000	92,000	137,000	159,000	129,000	27,000	544,000	1,013,000
Total Program:								
Unallocated Costs	-0-	-0-	-0-	-0-	-0-	10,222,000	10,222,000	10,222,000
50% Match: Subs. Bonds	-0-	-0-	14,781,000	24,381,000	5,628,000	-0-	44,800,000	44,800,000
Facilities for Handicapped	-0-	-0-	2,357,000	681,000	483,000	171,000	3,692,000	3,692,000
Subtotal	-0-	-0-	17,138,000	25,062,000	6,111,000	10,393,000	58,714,000	58,714,000
(ARS-68) Capital Contribution Agreement	90,454,000	17,696,000	12,189,000	9,172,000	19,158,000	1,275,000	59,546,000	149,900,000
Grand Total	90,454,000	17,696,000	29,327,000	25,239,000	25,273,000	11,618,000	118,160,000	208,614,000

Notes:
(1) Facilities for Handicapped Payment for Fiscal Year 1974 - Payment due July 1, 1974; effectively due in Fiscal Year 1975.
(2) No Capital Payments due in Fiscal Year 1979 or Fiscal Year 1980.