



HAMPTON ROADS TOLL FEASIBILITY STUDY

Work-in-Progress
Presentation #5

Baker



April 20, 2005

Project Packages

Package #1

**Hampton Roads Third
Crossing¹**

Midtown Tunnel & MLK²

**Southeastern Parkway
and Greenbelt**

Route 460

Package #2

**Hampton Roads Bridge
& Tunnel (HRCS Alt.1)³**

Midtown Tunnel & MLK²

**Southeastern Parkway
and Greenbelt**

Route 460

1 – Tolls on projects plus James River Bridge and Hampton Roads Bridge-Tunnel

2 – Tolls on projects plus Downtown Tunnel

3 – Tolls on projects plus James River Bridge and Monitor Merrimac Bridge-Tunnel

Funding Summary

Package #1

- A. Project Toll Revenues (maximized)
- B. Existing Facilities Toll Revenues
- C. 13.15 cent Gas Tax or 0.94% Sales Tax
- D. NHS, Primary & RSTP Funding

Package #2

- A. Project Toll Revenues (maximized)
- B. Existing Facilities Toll Revenues
- C. 3.80 cent Gas Tax or 0.27% Sales Tax
- D. NHS, Primary & RSTP Funding

Traffic Impacts

Location	No Project		Project Package #1						Project Package #2					
	Demand	LOS	Revenue-Maximized Tolls			Reduced Tolls			Revenue-Maximized Tolls			Reduced Tolls		
			Demand	Toll	LOS	Demand	Toll	LOS	Demand	Toll	LOS	Demand	Toll	LOS
MMMBT	66,000	D	44,000	\$0.14/mi.	A	82,000	\$0.05/mi.	B	58,000	\$0.50	C	49,000	\$0.50	B/C
HRBT	101,000	F	67,000	\$1.30	D	67,000	\$0.75	D	64,000	0.15/mi.	B	88,000	0.07/mi.	B/C
James River Bridge	41,000	A/B	19,000	\$1.30	A	24,000	\$0.75	A	29,000	\$0.50	A	29,000	\$0.50	A
Midtown Tunnel	54,000	F	25,000	\$1.35	A	42,000	\$0.56	B	25,000	\$1.35	A	42,000	\$0.56	B
Downtown Tunnel	120,000	F	45,000	\$1.45	B	77,000	\$0.60	E	45,000	\$1.45	B	77,000	\$0.60	E
SE Parkway & Greenbelt														
Dominion Boulevard	40,000	F	26,000	\$0.76/mi.	A	73,000	0.06/mi.	E	26,000	\$0.76/mi.	A	73,000	0.06/mi.	E
Oak Grove Connector	73,000	E/F	40,000	\$0.51/mi.	B	77,000	0.06/mi.	C	40,000	\$0.51/mi.	B	77,000	0.06/mi.	C
Great Bridge-VA Beach	N/A	N/A	35,000	\$0.06/mi.	A	43,000	0.06/mi.	B	35,000	\$0.06/mi.	A	43,000	0.06/mi.	B
US 460	N/A	N/A	21,000	\$0.10/mi.	A	38,000	0.02/mi.	B	21,000	\$0.10/mi.	A	38,000	0.02/mi.	B

Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

Traffic Impacts

Location	No Project		Project Package #1						Project Package #2					
	Demand	LOS	Revenue-Maximized Tolls			Reduced Tolls			Revenue-Maximized Tolls			Reduced Tolls		
			Demand	Toll	LOS	Demand	Toll	LOS	Demand	Toll	LOS	Demand	Toll	LOS
MMMBT	66,000	D	44,000	\$0.14/mi.	A	82,000	\$0.05/mi.	B	58,000	\$0.50	C	49,000	\$0.50	B/C
HRBT	101,000	F	67,000	\$1.30	D	67,000	\$0.75	D	64,000	0.15/mi.	B	88,000	0.07/mi.	B/C
James River Bridge	41,000	A/B	19,000	\$1.30	A	24,000	\$0.75	A	29,000	\$0.50	A	29,000	\$0.50	A
Midtown Tunnel	54,000	F	25,000	\$1.35	A	42,000	\$0.56	B	25,000	\$1.35	A	42,000	\$0.56	B
Downtown Tunnel	120,000	F	45,000	\$1.45	B	77,000	\$0.60	E	45,000	\$1.45	B	77,000	\$0.60	E
SE Parkway & Greenbelt														
Dominion Boulevard	40,000	F	26,000	\$0.76/mi.	A	73,000	0.06/mi.	E	26,000	\$0.76/mi.	A	73,000	0.06/mi.	E
Oak Grove Connector	73,000	E/F	40,000	\$0.51/mi.	B	77,000	0.06/mi.	C	40,000	\$0.51/mi.	B	77,000	0.06/mi.	C
Great Bridge-VA Beach	N/A	N/A	35,000	\$0.06/mi.	A	43,000	0.06/mi.	B	35,000	\$0.06/mi.	A	43,000	0.06/mi.	B
US 460	N/A	N/A	21,000	\$0.10/mi.	A	38,000	0.02/mi.	B	21,000	\$0.10/mi.	A	38,000	0.02/mi.	B

Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

Toll Revenue Yield

PROJECTS	% COVERAGE OF COSTS	
	Revenue-Maximized Tolls	Reduced Tolls
Third Crossing (w/ Parallel Tolls)	72%	46%
HRBT (w/ Parallel Tolls)	100%	76%
Midtown Tunnel (w/ Parallel Tolls)	270%	182%
SE Parkway & Greenbelt ¹	71%	34%
US 460 ²	40%	16%

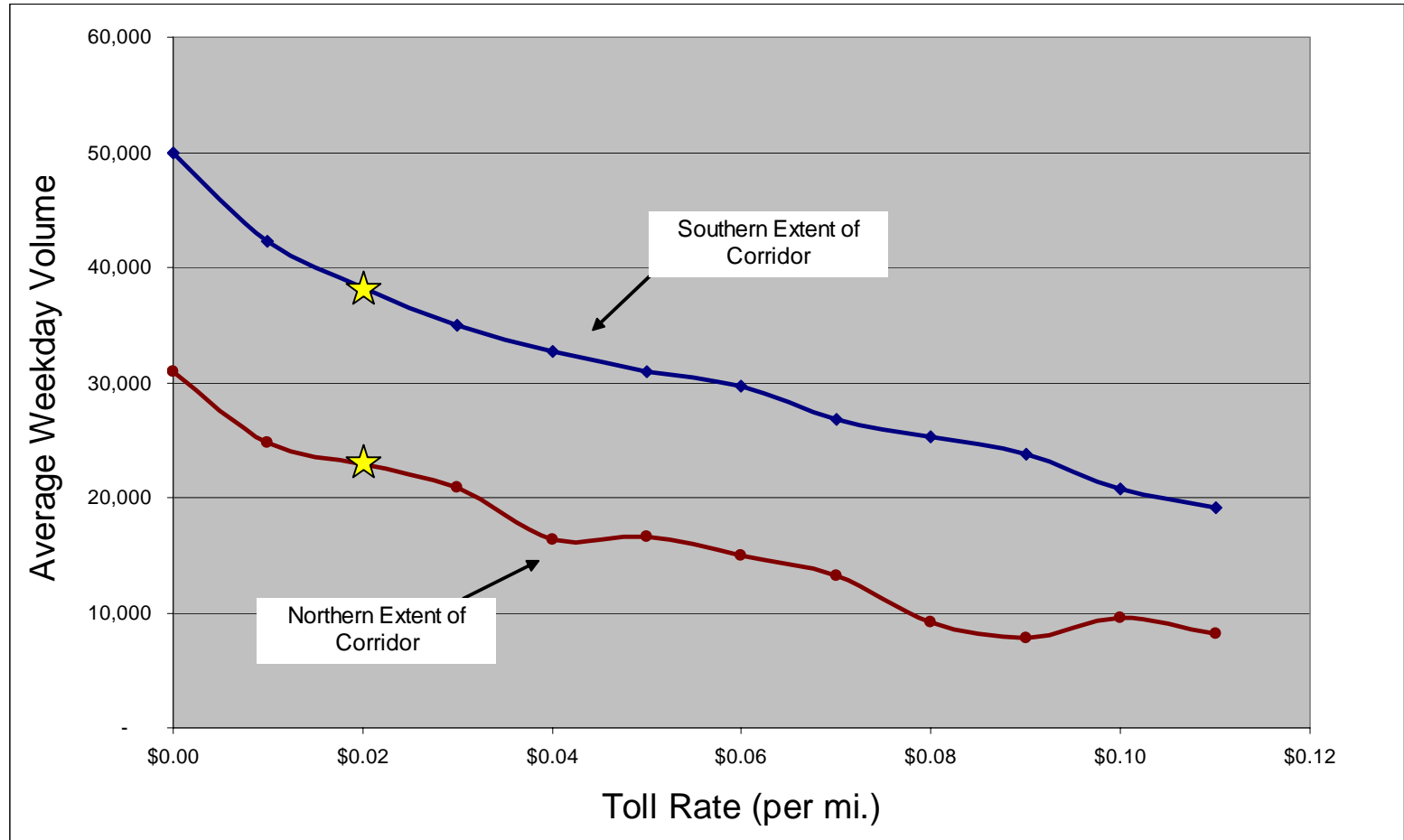
1 - NHS and RSTP funds (\$520M) included in revenue

2 - NHS and Primary funds (\$321M) included in revenue

Next Steps

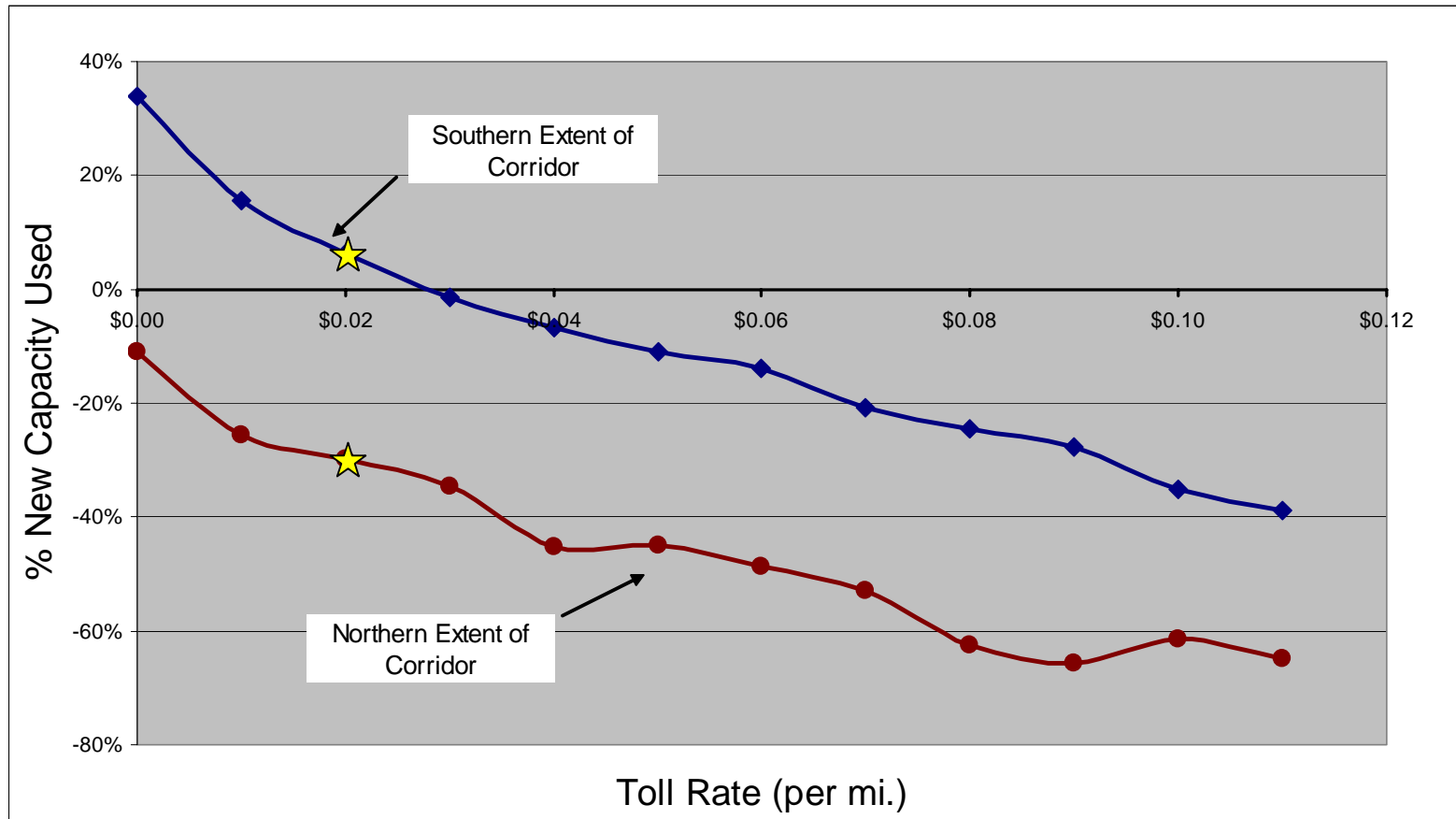
**Additional
Slides**

Route 460- Demand



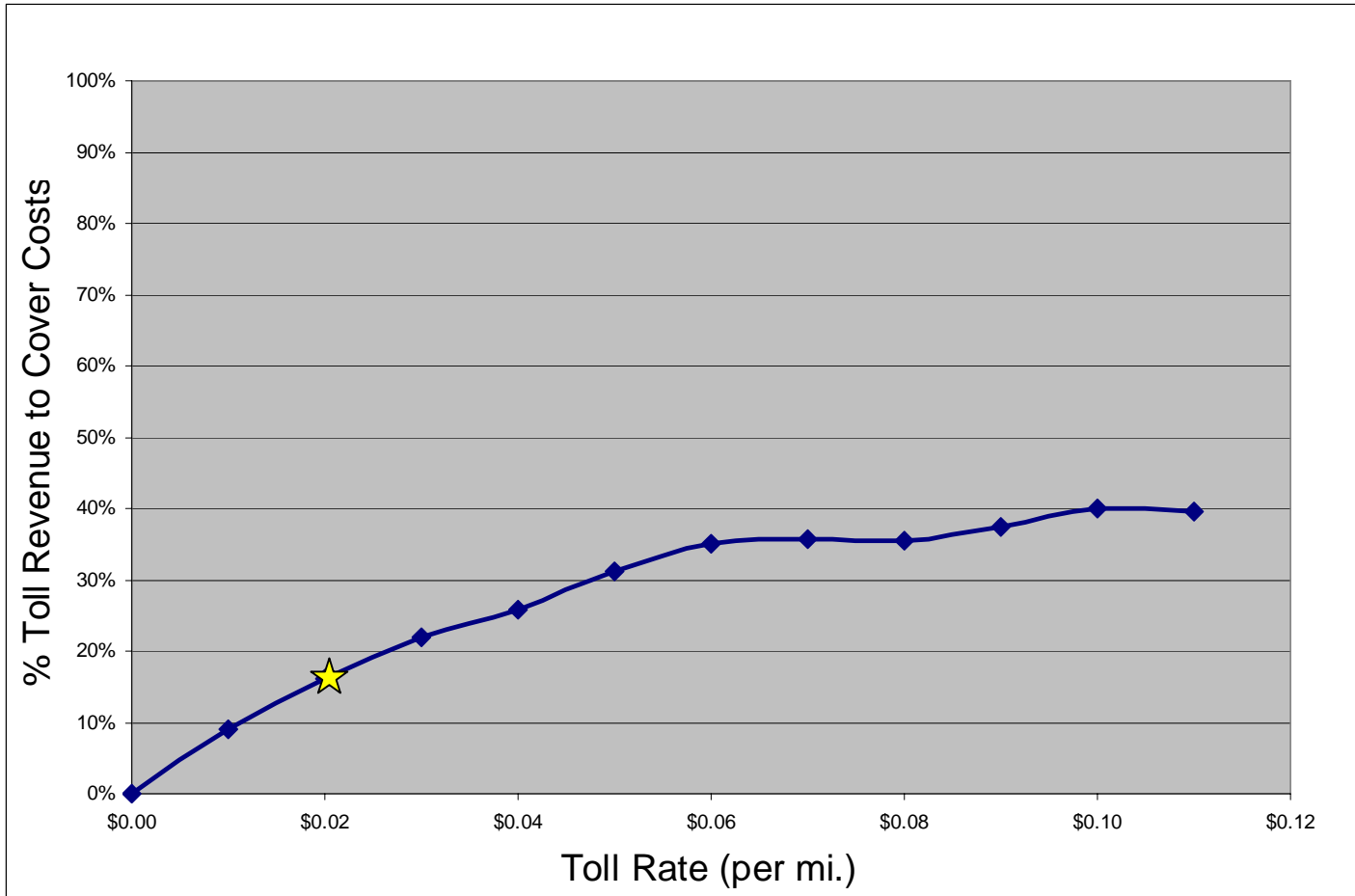
Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

US 460 – Usage of Capacity



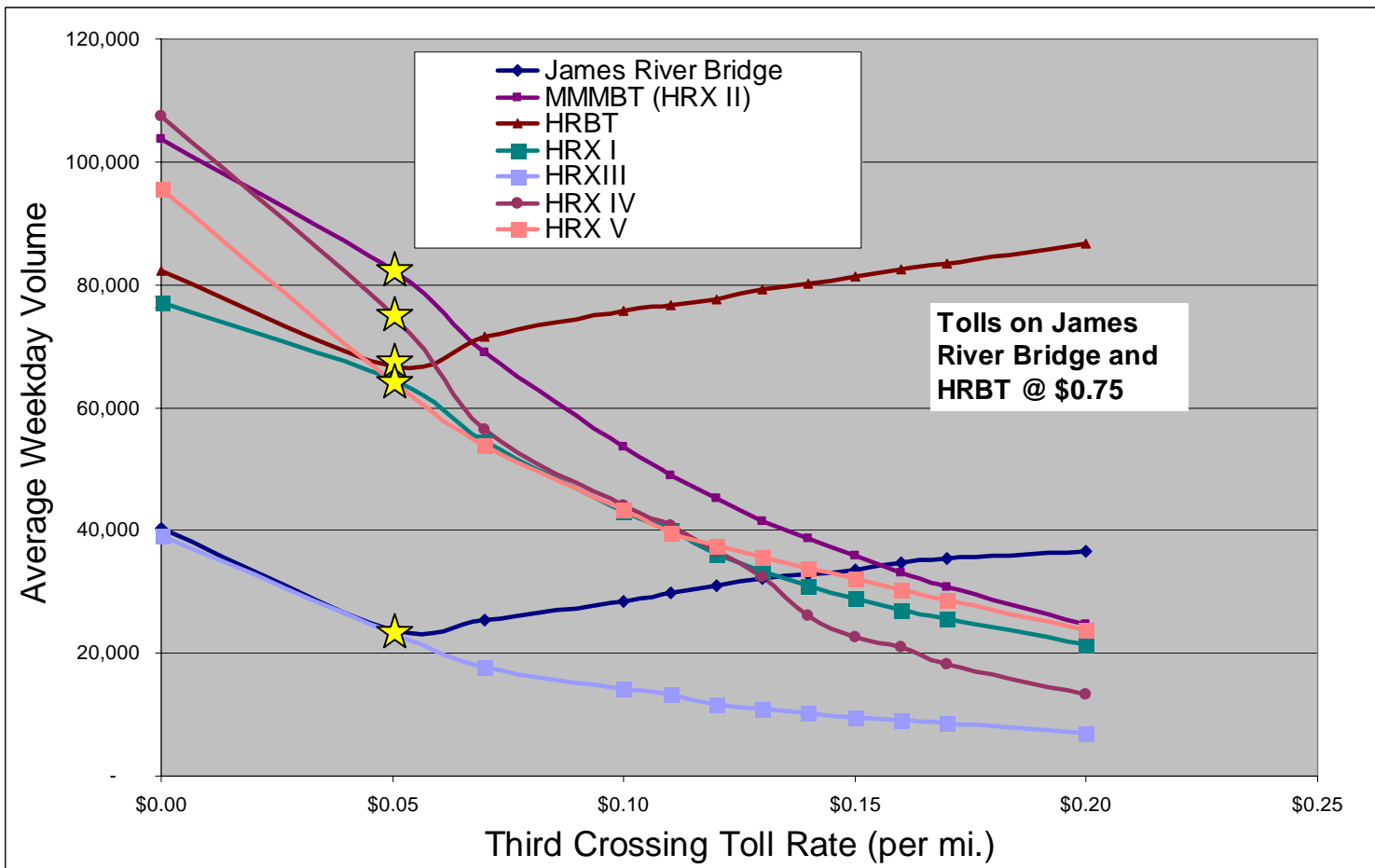
Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

US 460 – Revenue Yield



Reflects 2026 demand; off-peak tolls in Year 2000 US dollars
NHS, Primary & RSTP funds included in revenue

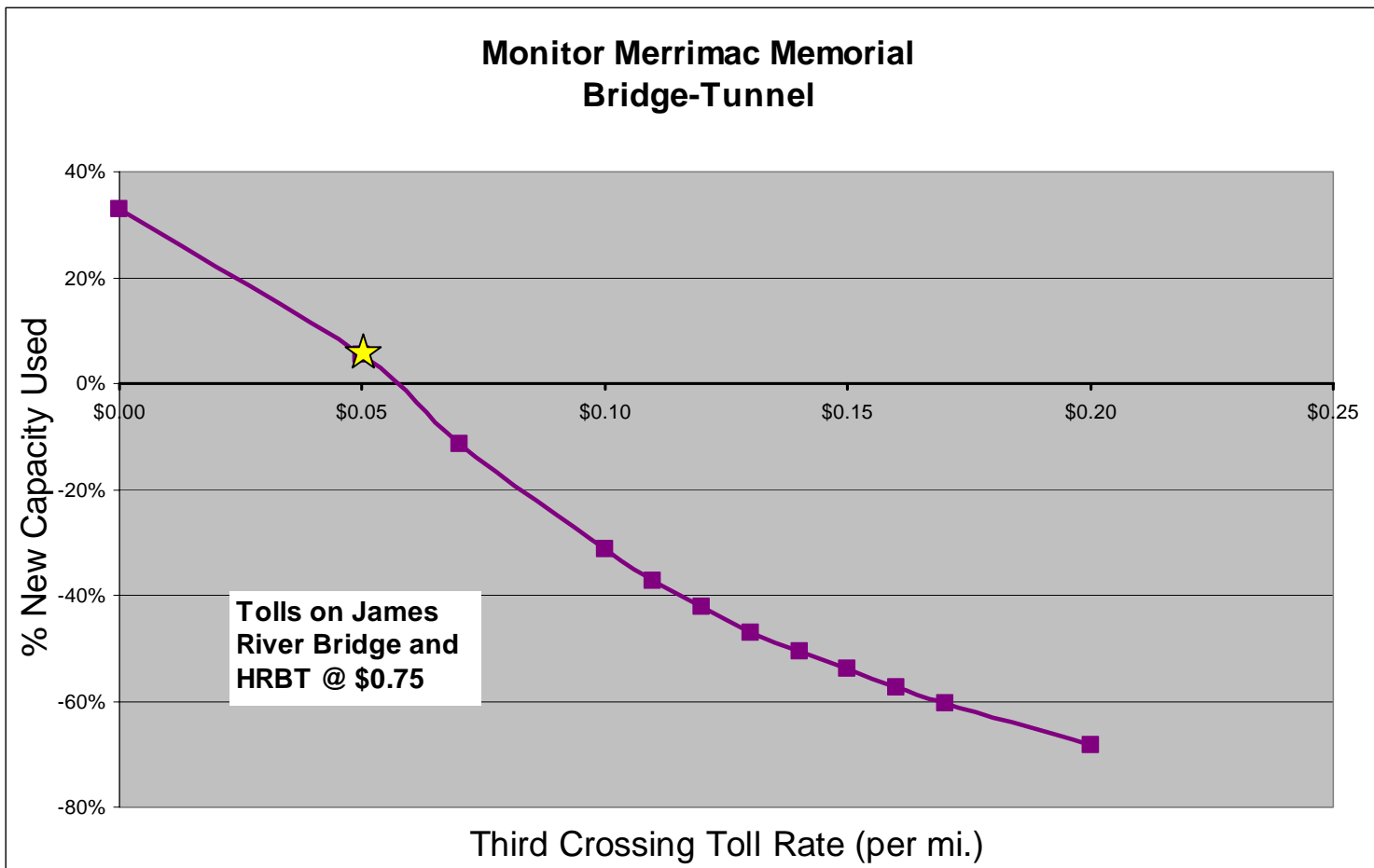
Third Crossing - Demand



Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

No Tolls on James River Bridge and HRBT when Third Crossing toll rate is zero

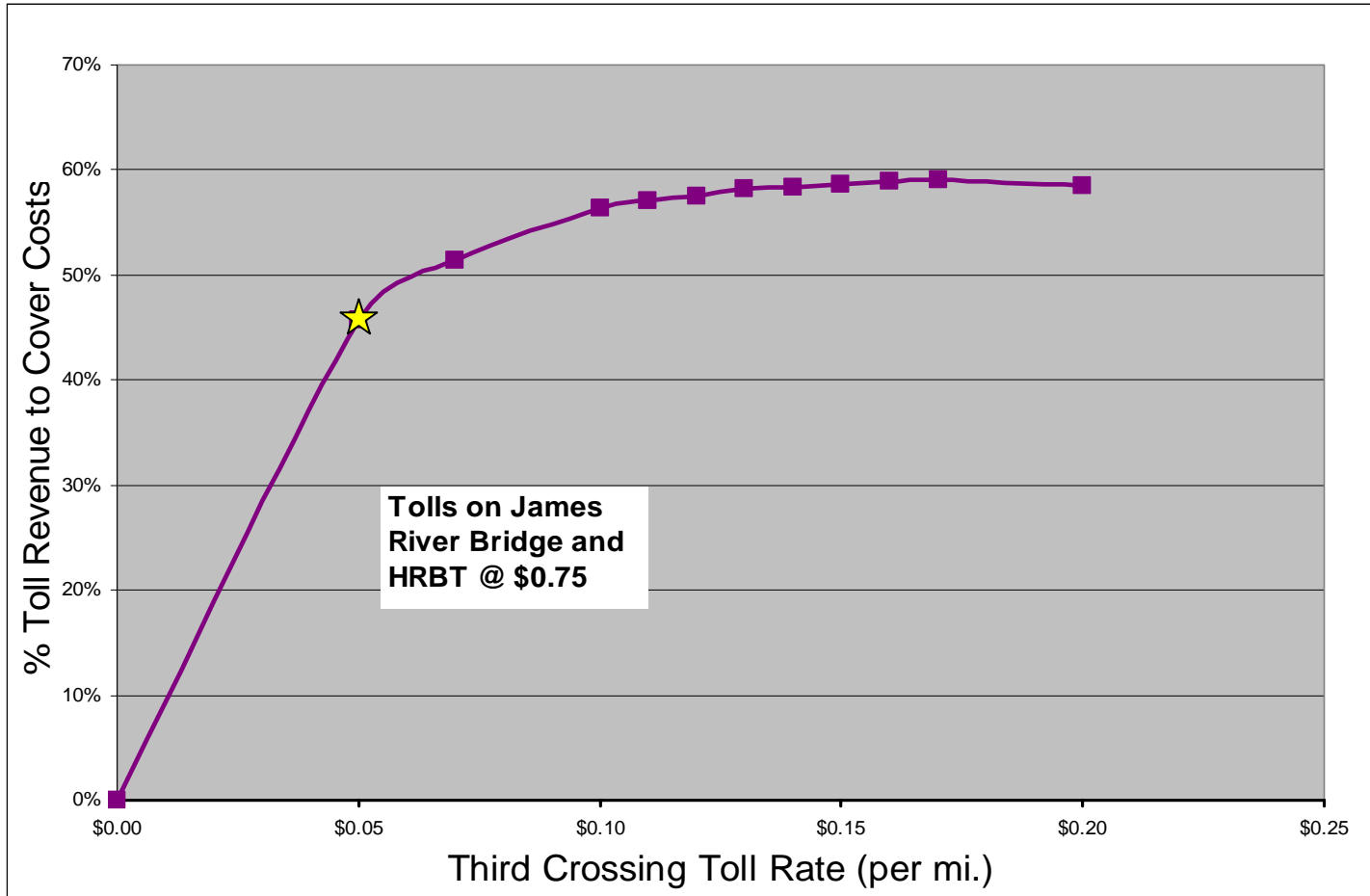
Third Crossing – Usage of Capacity



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No Tolls on James River Bridge and HRBT when Third Crossing toll rate is zero

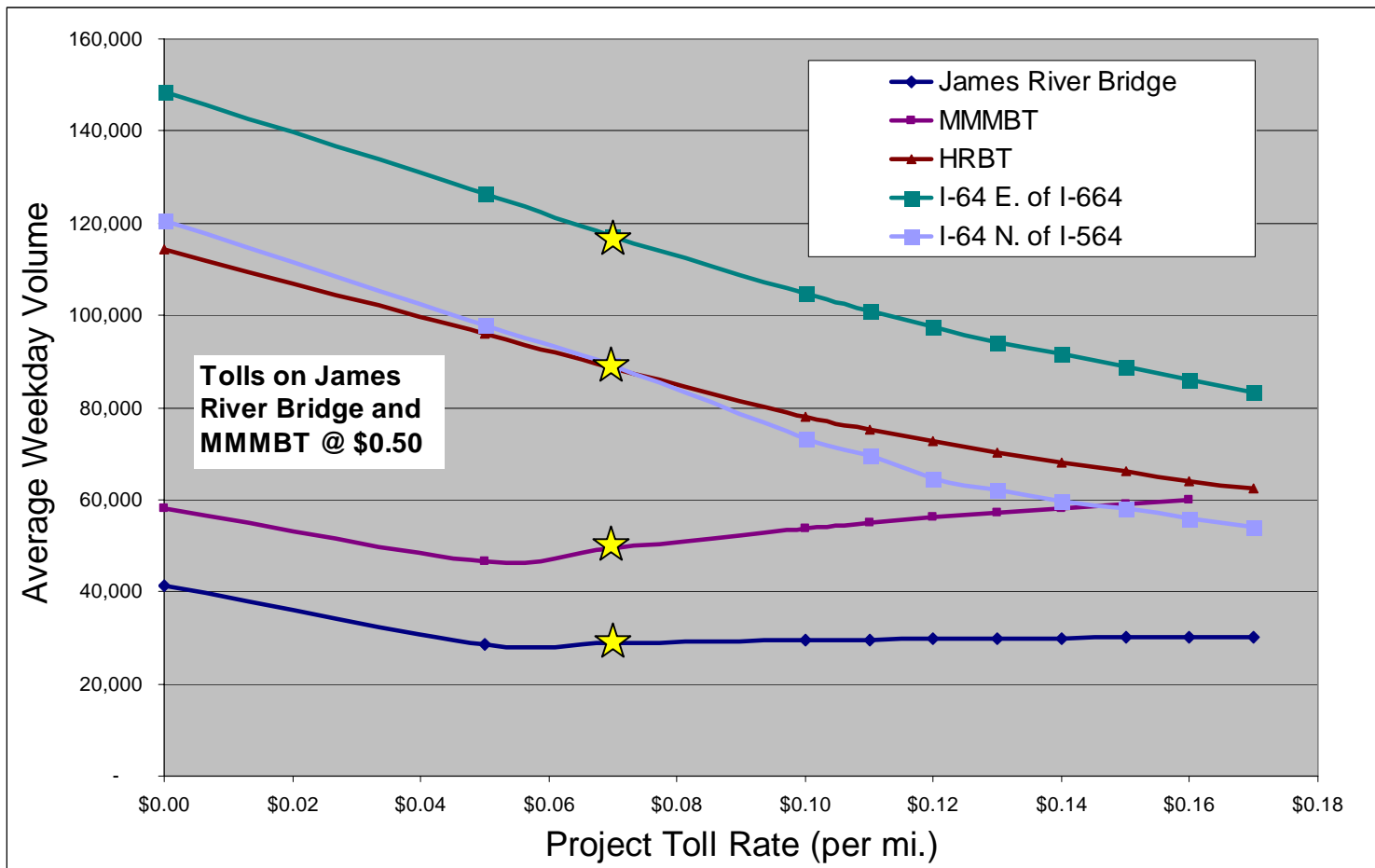
Third Crossing – Revenue Yield



Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

No Tolls on James River Bridge and HRBT when Third Crossing toll rate is zero

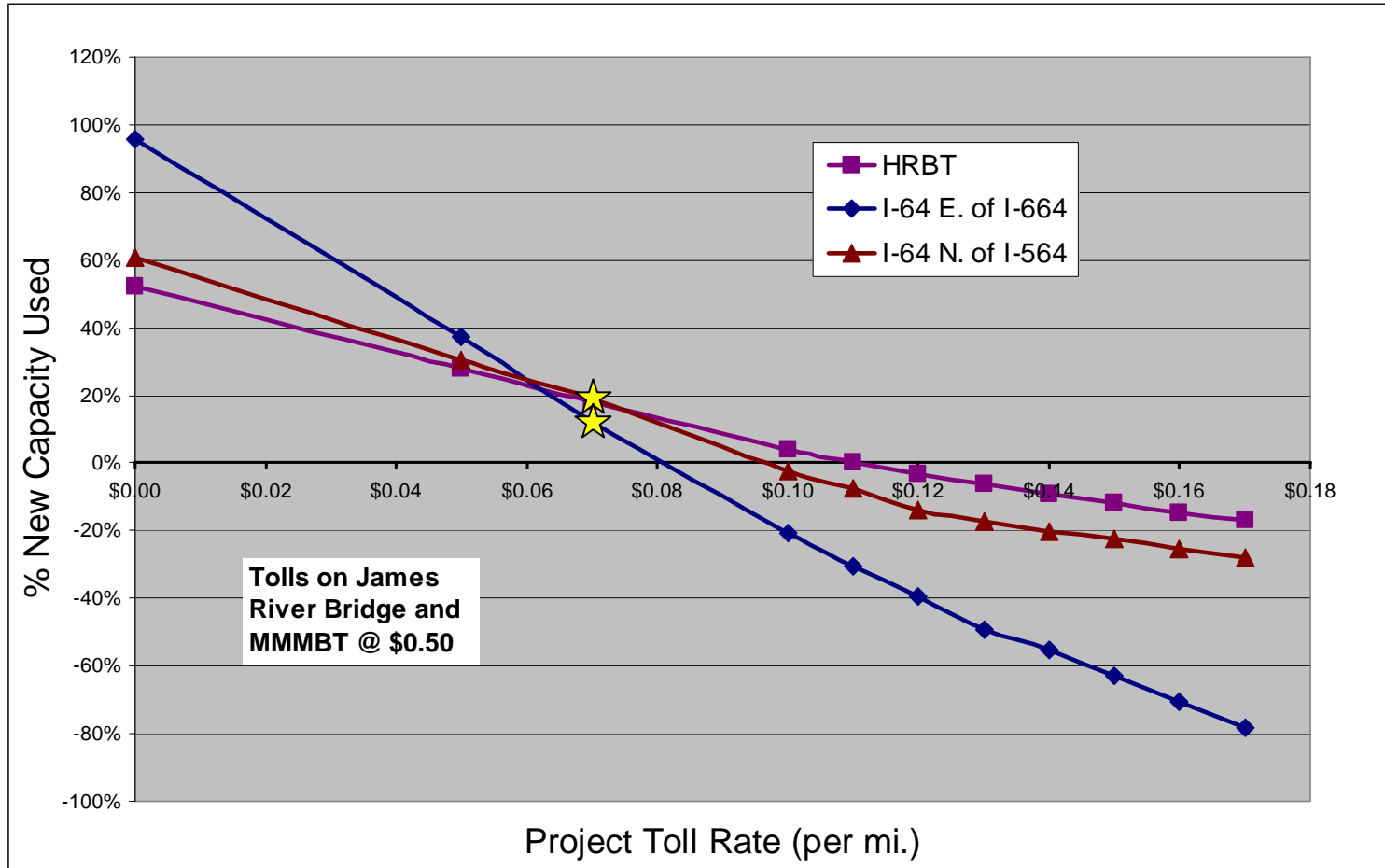
HRCS, Alt. 1 – Demand



Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

No Tolls on James River Bridge and MMMBT when Project toll rate is zero

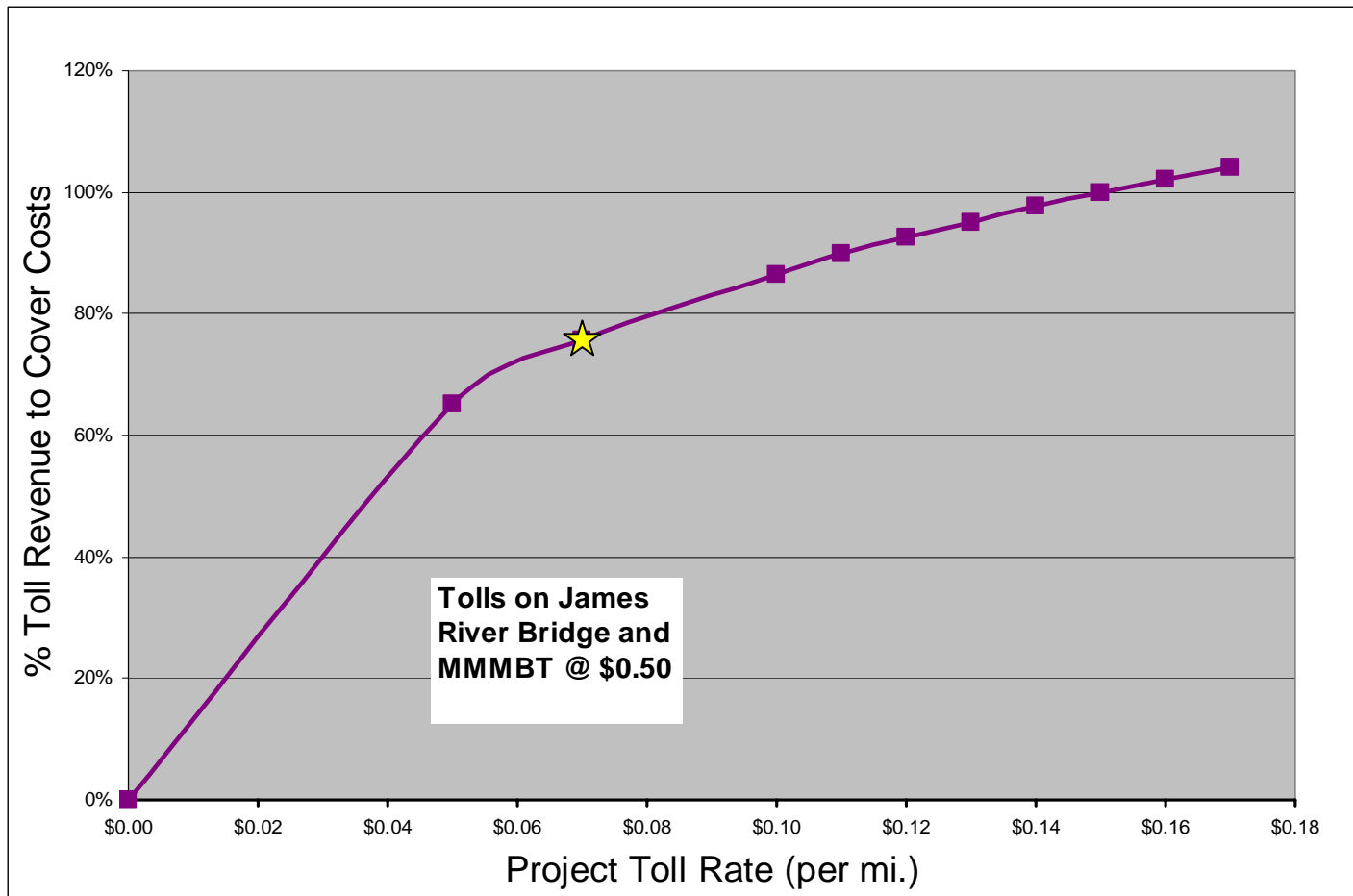
HRCS, Alt. 1 – Usage of Capacity



Tolls on James River Bridge and MMBT @ \$0.50

Reflects 2026 demand; off-peak tolls in Year 2000 US dollars
No Tolls on James River Bridge and MMBT when Project toll rate is zero

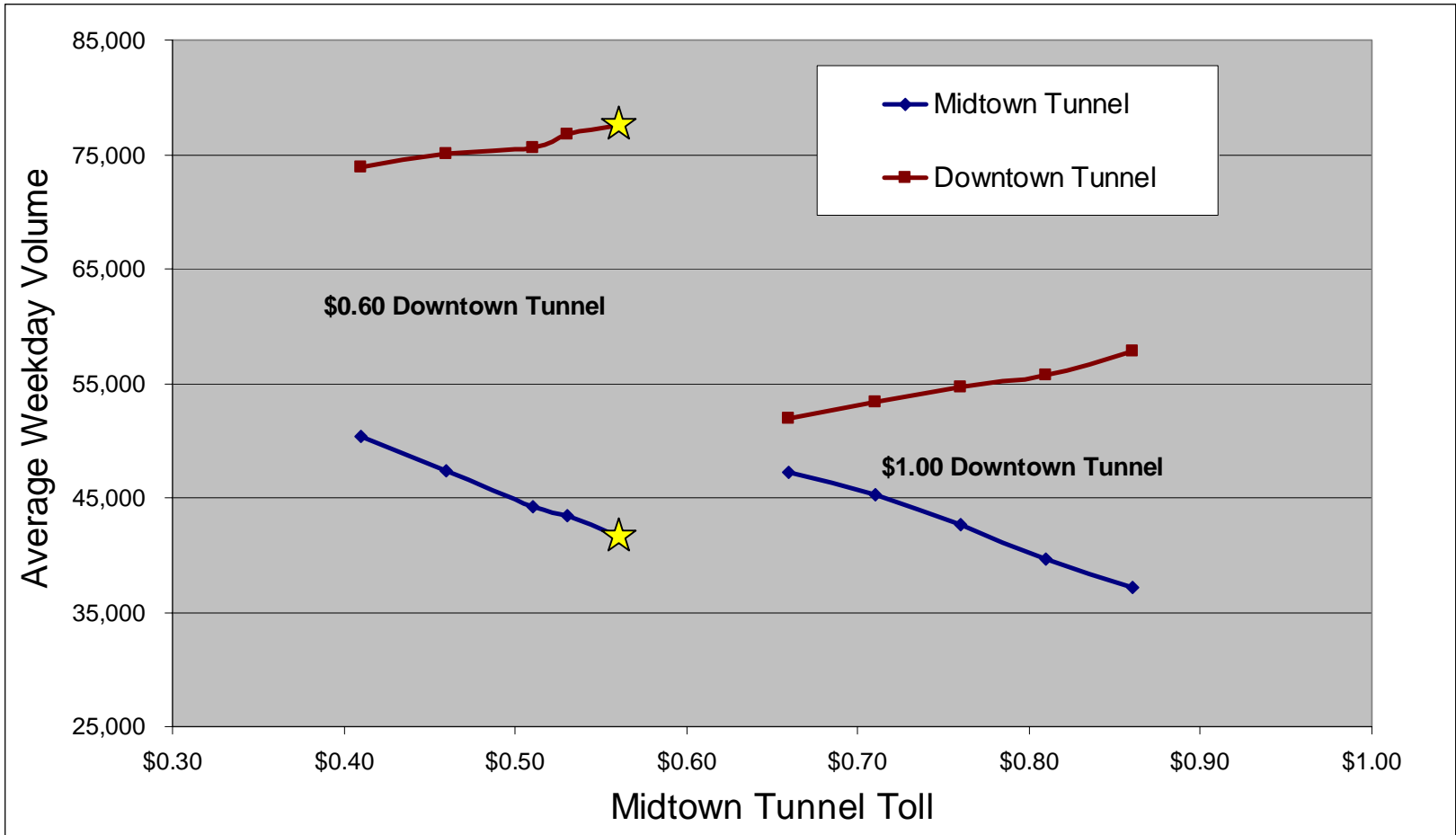
HRCS, Alt. 1 – Revenue Approximation



Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

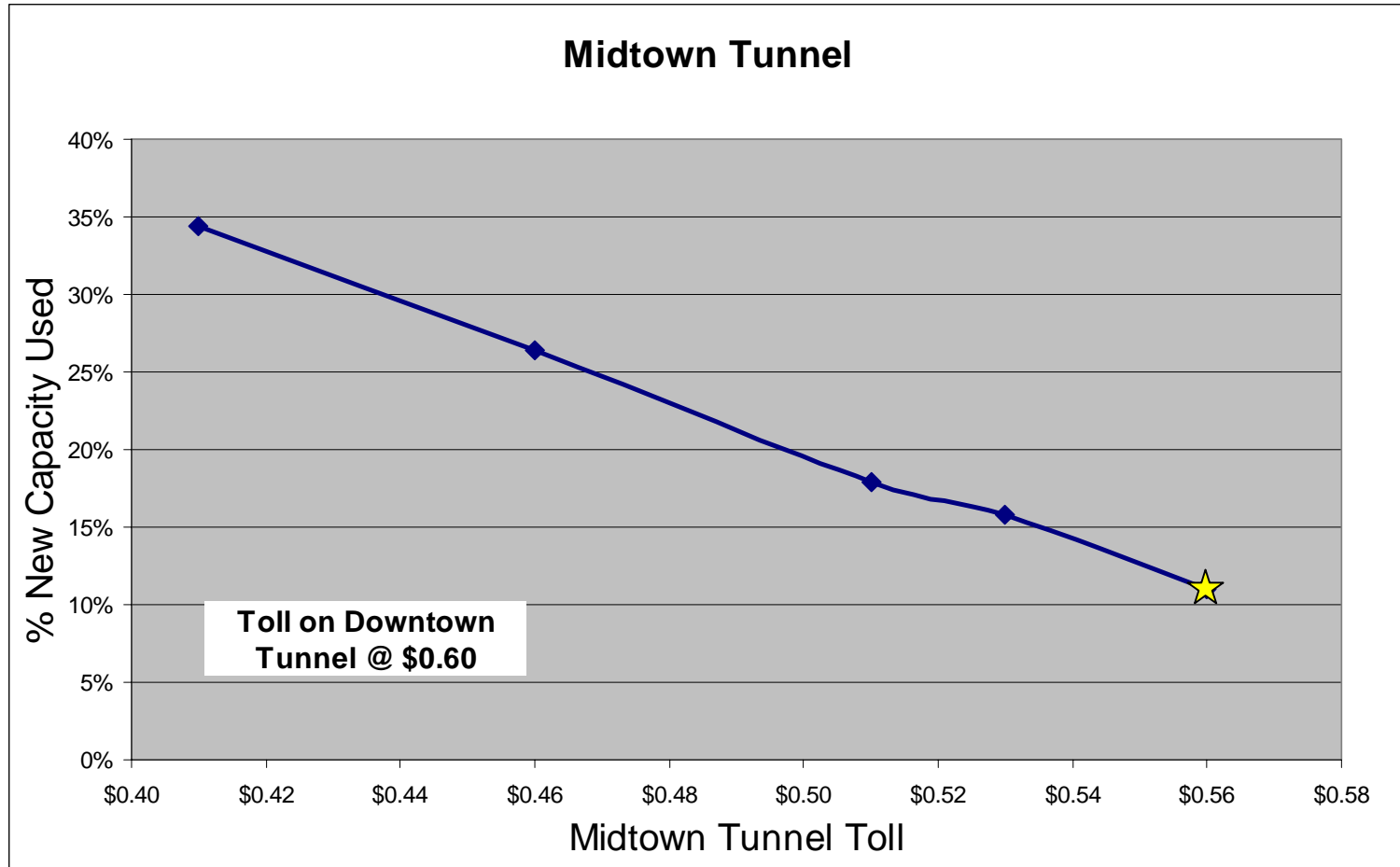
No Tolls on James River Bridge and MMMBT when Project toll rate is zero

Midtown Tunnel & MLK Extension - Demand



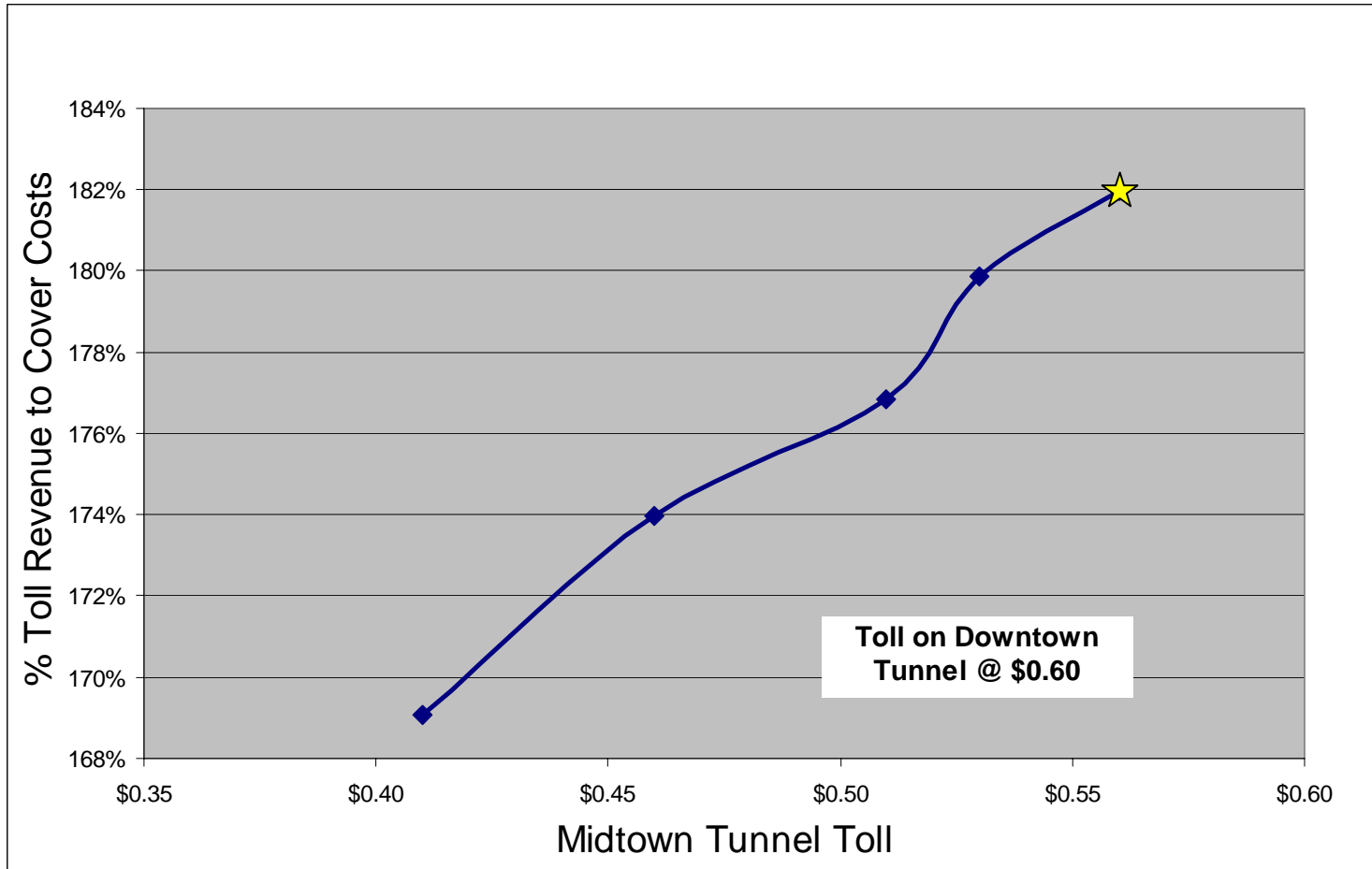
Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

Midtown Tunnel – Usage of Capacity



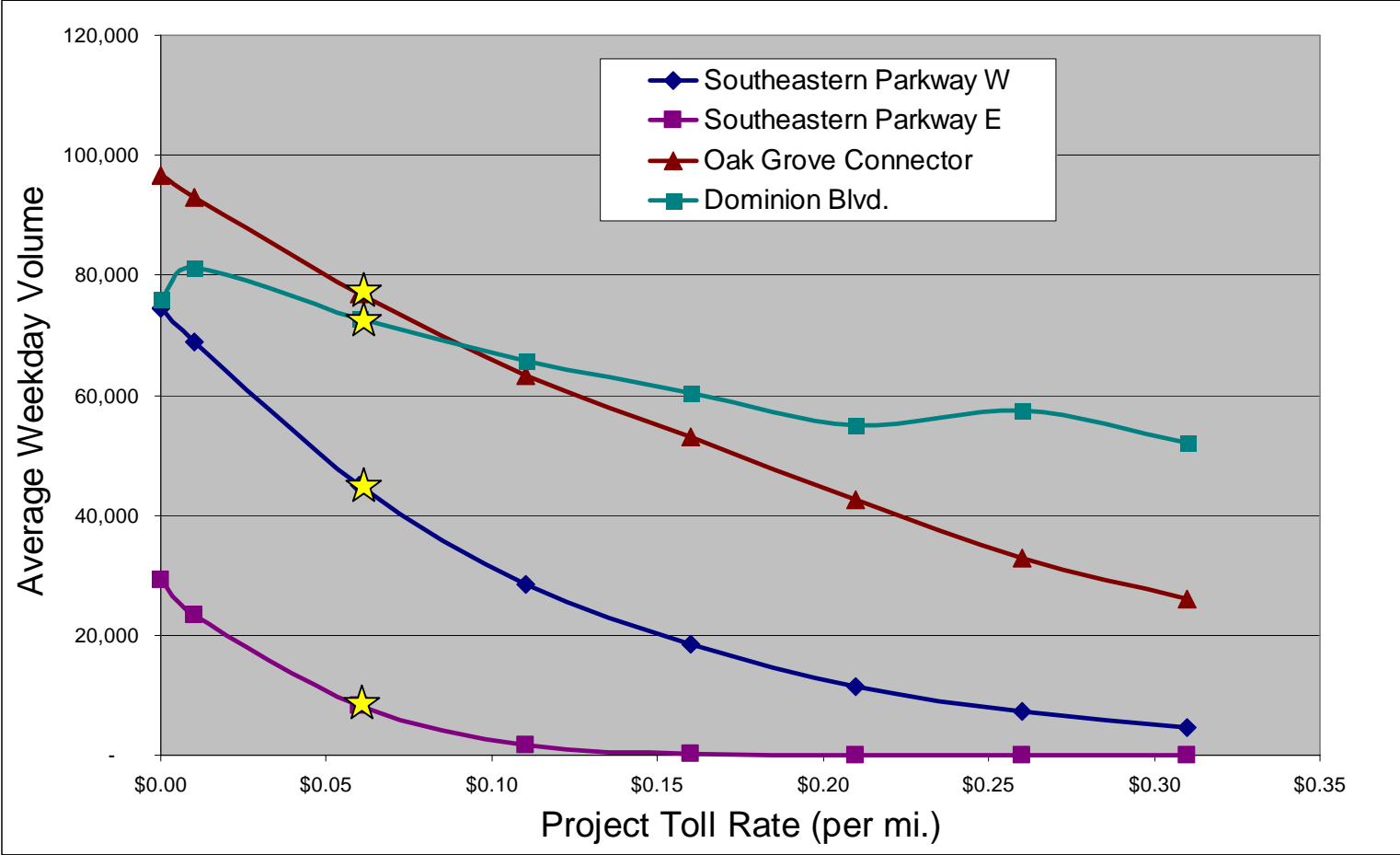
Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

Midtown Tunnel – Revenue Yield



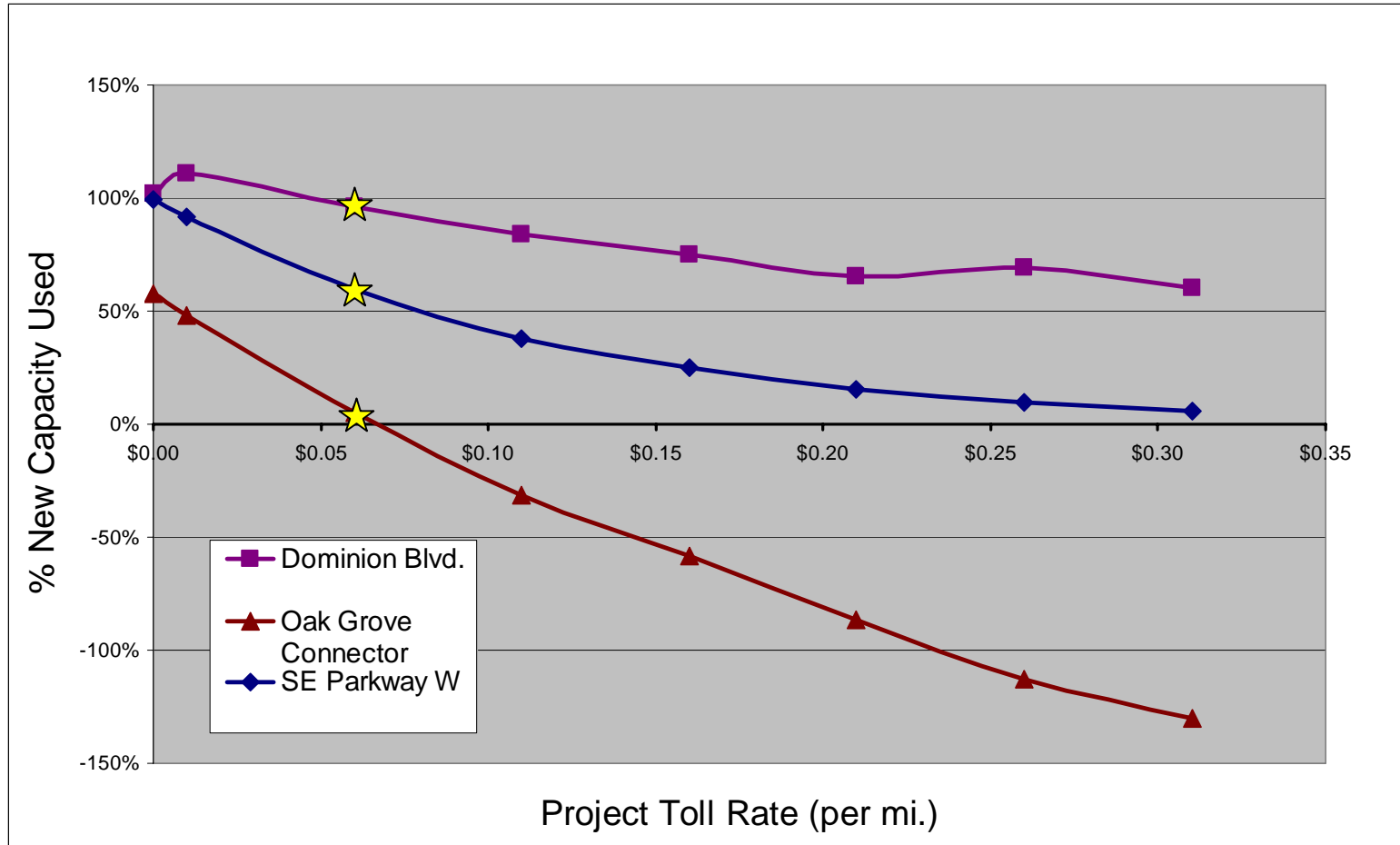
Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

SE Parkway & Greenbelt - Demand



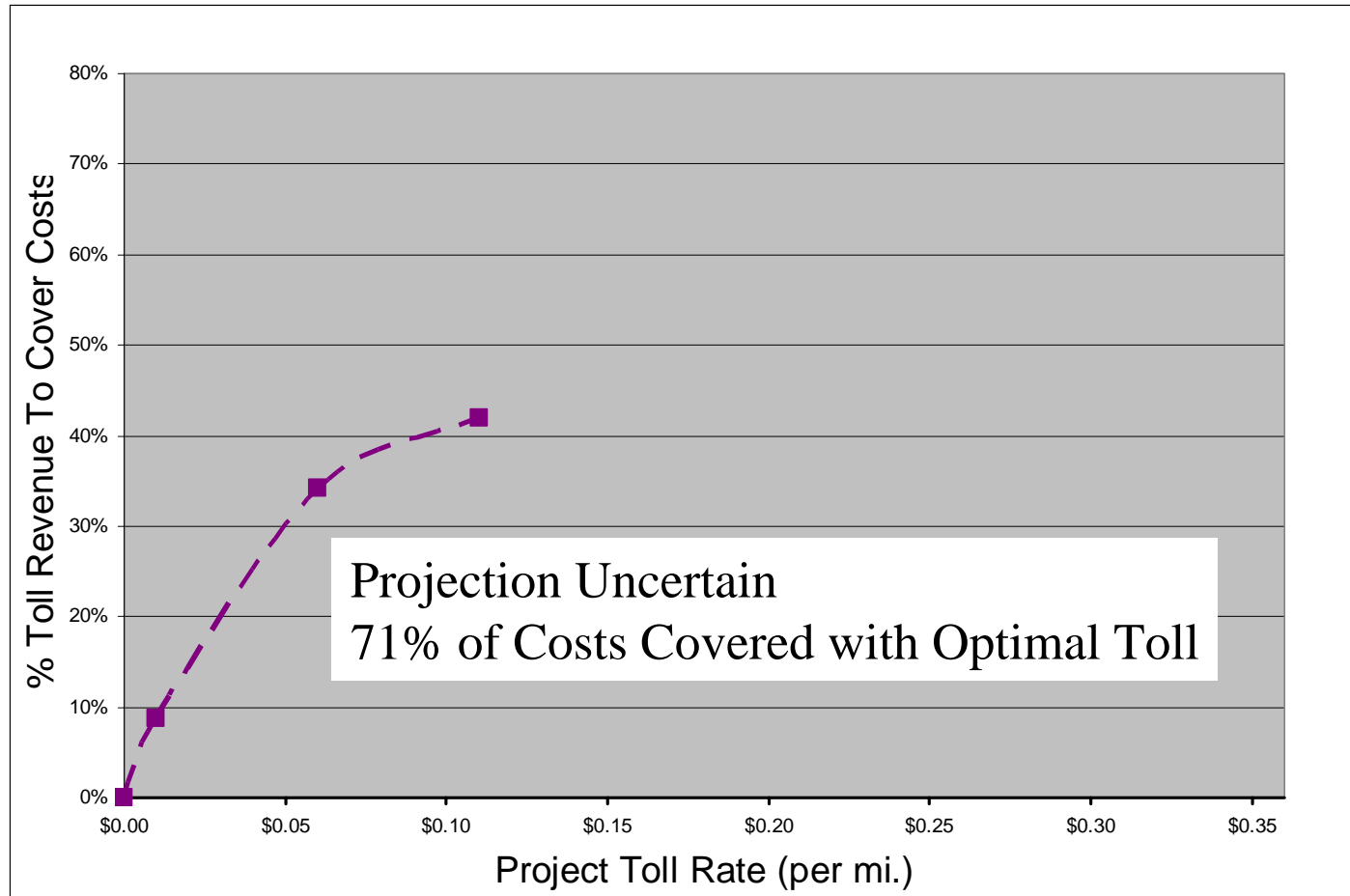
Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

SE Parkway & Greenbelt – Usage of Capacity



Reflects 2026 demand; off-peak tolls in Year 2000 US dollars

SE Parkway & Greenbelt – Revenue Yield



Reflects 2026 demand; off-peak tolls in Year 2000 US dollars
NHS, Primary & RSTP funds included in revenue