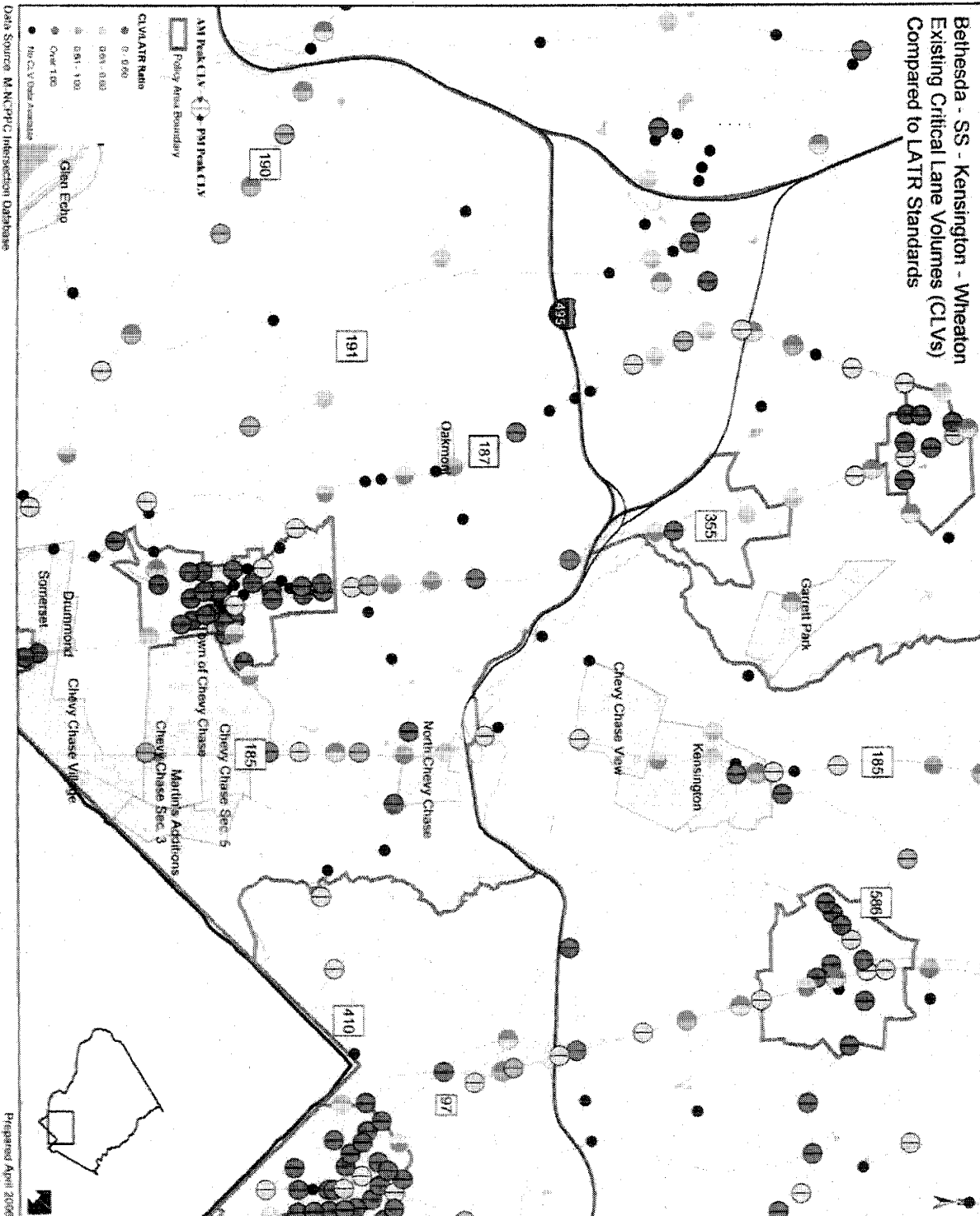
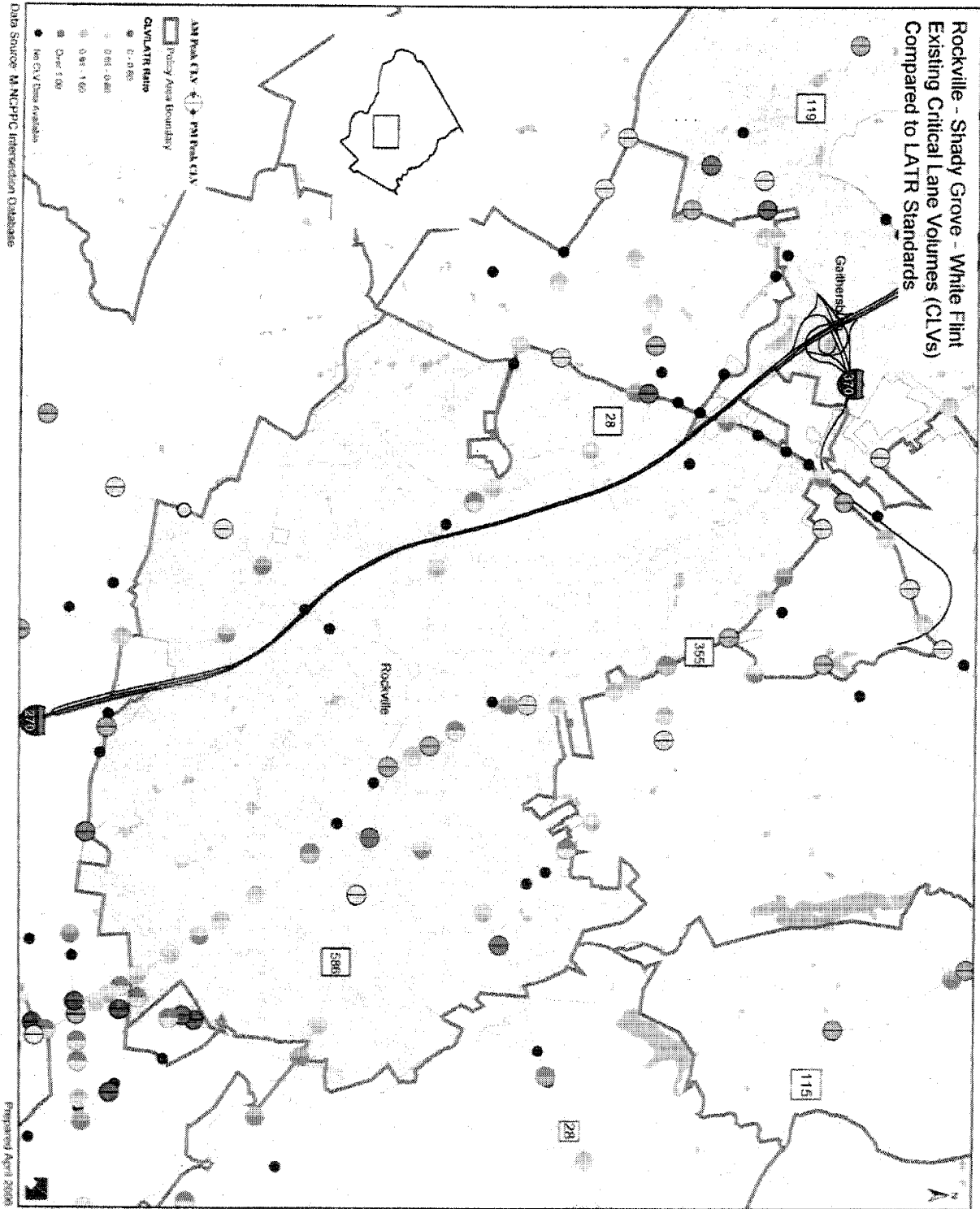


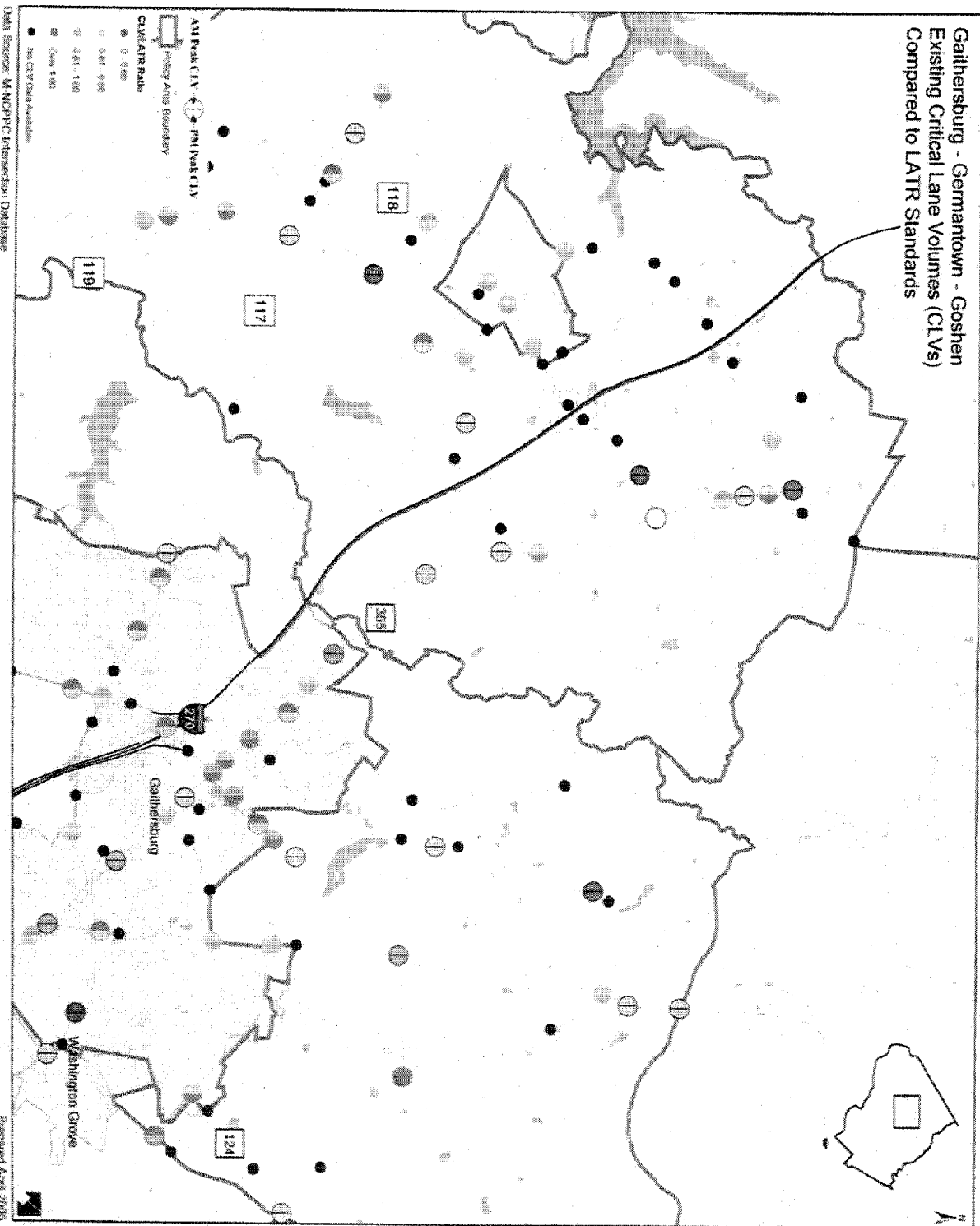
Appendix 5.1B: Map of CLVs for Bethesda – Silver Spring - Kensington



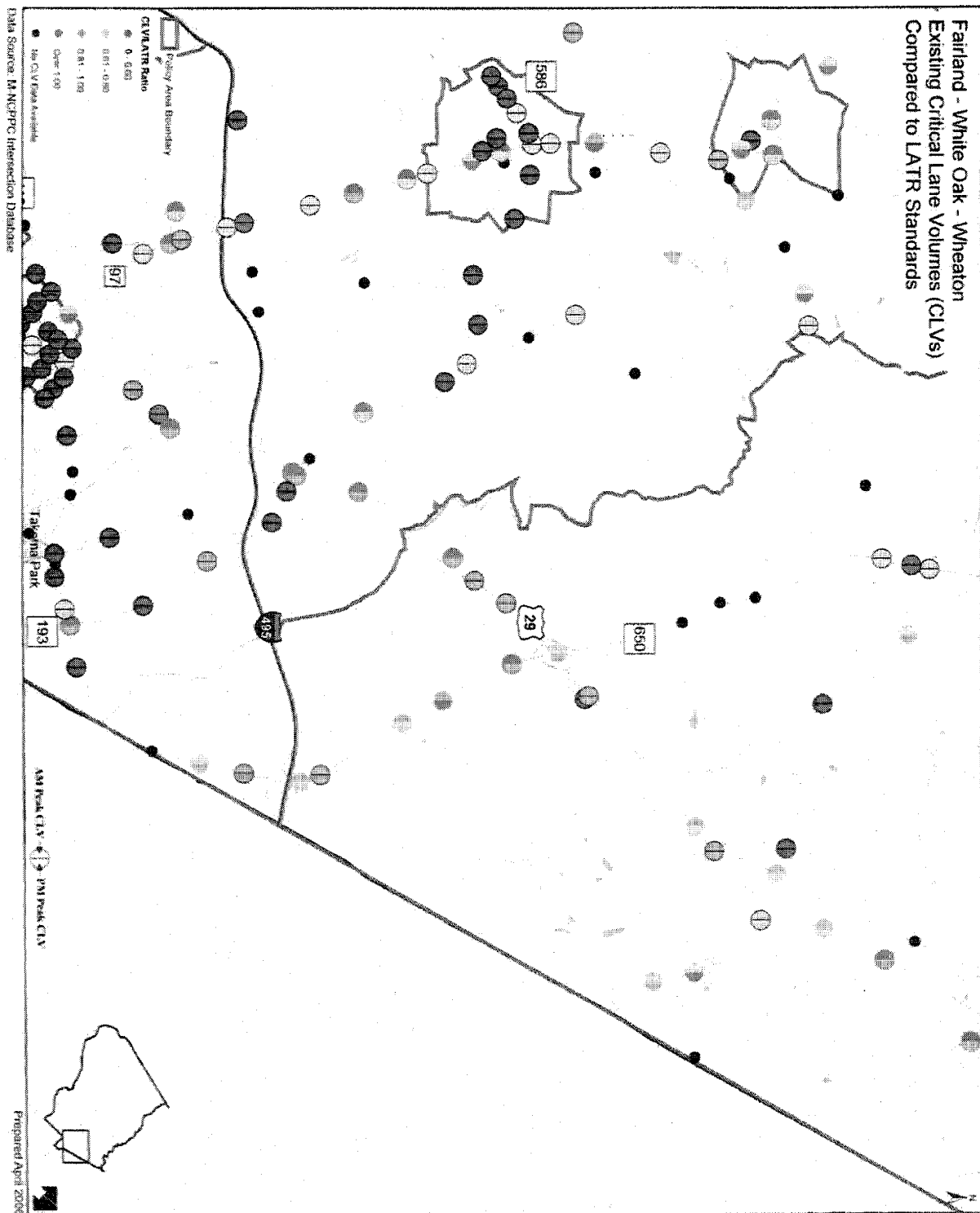
Appendix 5.1C: Map of CLVs for Rockville – Shady Grove – White Flint



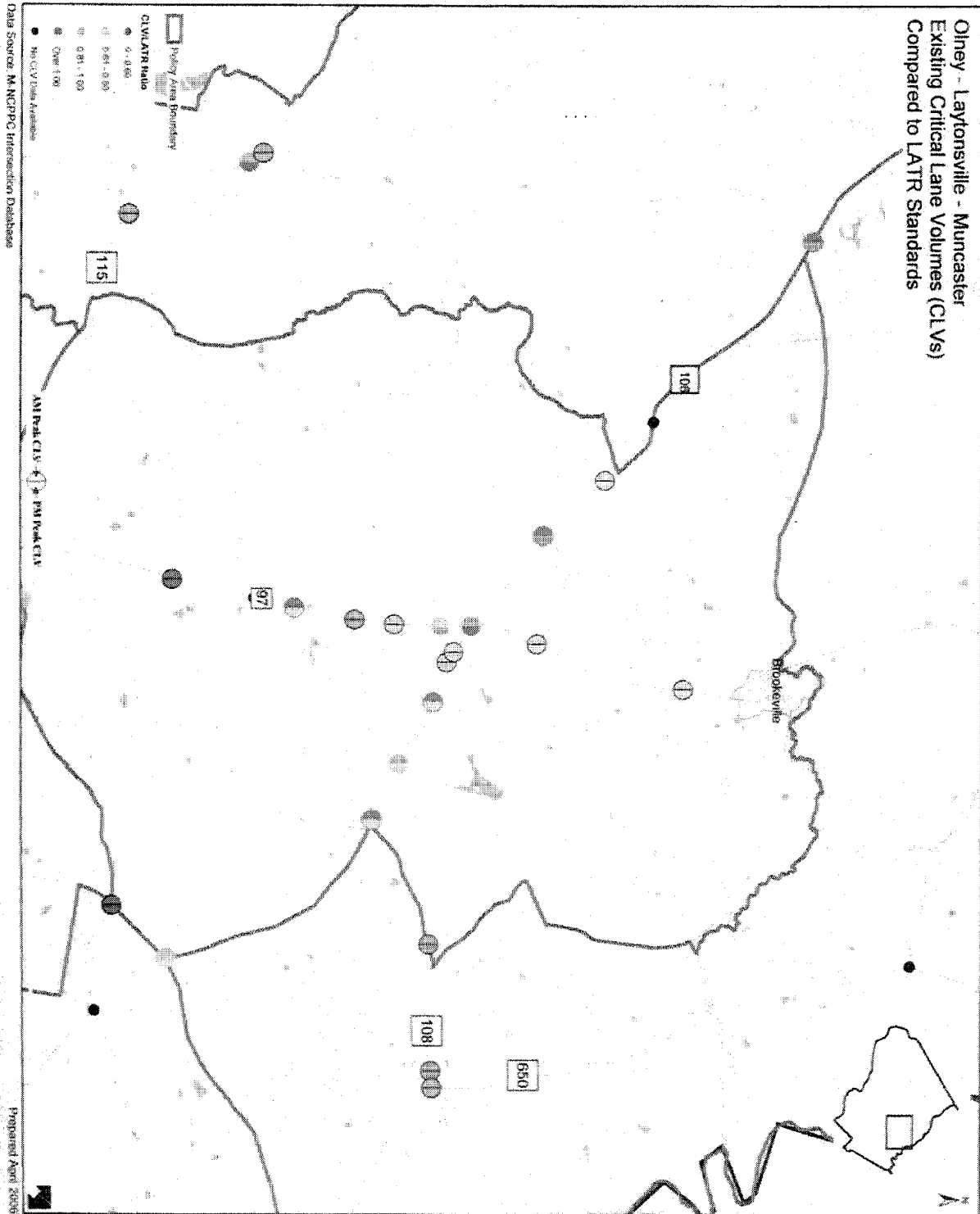
Appendix 5.1D: Map of CLVs for Gaithersburg – Germantown – Goshen



Appendix 5.1E: Map of CLVs for Fairland – White Oak – Wheaton



Appendix 5.1F: Map of CLVs for Olney – Laytonsville – Muncaster



Appendix 5.2A: V/C Ratio Lane-Mile Distribution for All Facilities

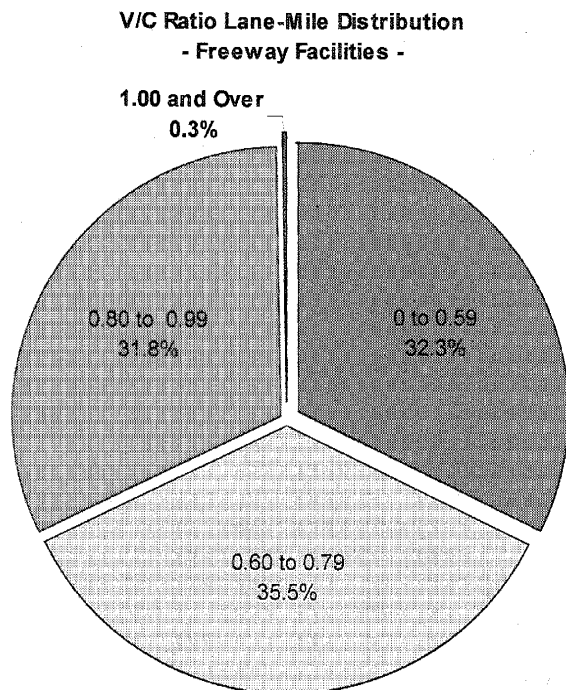
TRAVEL/2 V/C Ratio Lane-Mile Distribution - All Facilities			
	Base Year (1998) Network	2010 CLRP Network	
% of lane-mi w/ V/C 0 to 0.59	67.4%	63.8%	
% of lane-mi w/ V/C 0.60 to 0.79	24.1%	25.5%	
% of lane-mi w/ V/C 0.80 to 0.99	8.3%	10.4%	
% of lane-mi w/ V/C 1.00 and up	0.2%	0.3%	

Appendix 5.2B: TRAVEL/2 Model Results for the Freeway Facilities

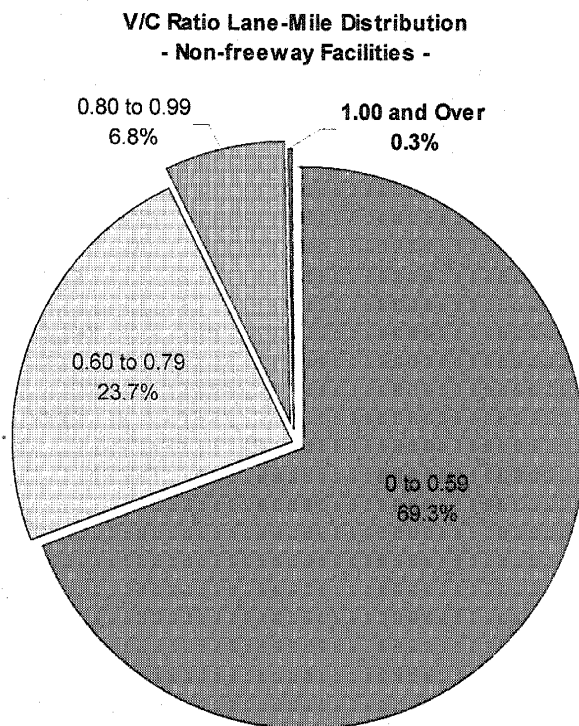
TRAVEL/2 Model Results - Freeway Facilities			
	Base Year (1998) Network	2010 CLRP Network	% Chg From Base
Total Lane-Miles	312	398	21.5%
Vehicle-Miles Traveled (in 000s)	470.1	600.6	21.7%
Vehicle-Hours Traveled (in 000s)	14.9	18.66	20.2%
Average Speed (mph)	39.8	40.7	2.2%
Average V/C Ratio*	0.65	0.64	-1.6%
V/C Ratio Lane-Mile Distribution - Freeway Facilities			
	Base Year (1998) Network	2010 CLRP Network	
% of lane-mi w/ V/C 0 to 0.59	30.0%	32.3%	
% of lane-mi w/ V/C 0.60 to 0.79	36.2%	35.5%	
% of lane-mi w/ V/C 0.80 to 0.99	33.3%	31.8%	
% of lane-mi w/ V/C 1.00 and up	0.5%	0.3%	

*Calculated using the model network's policy area capacities

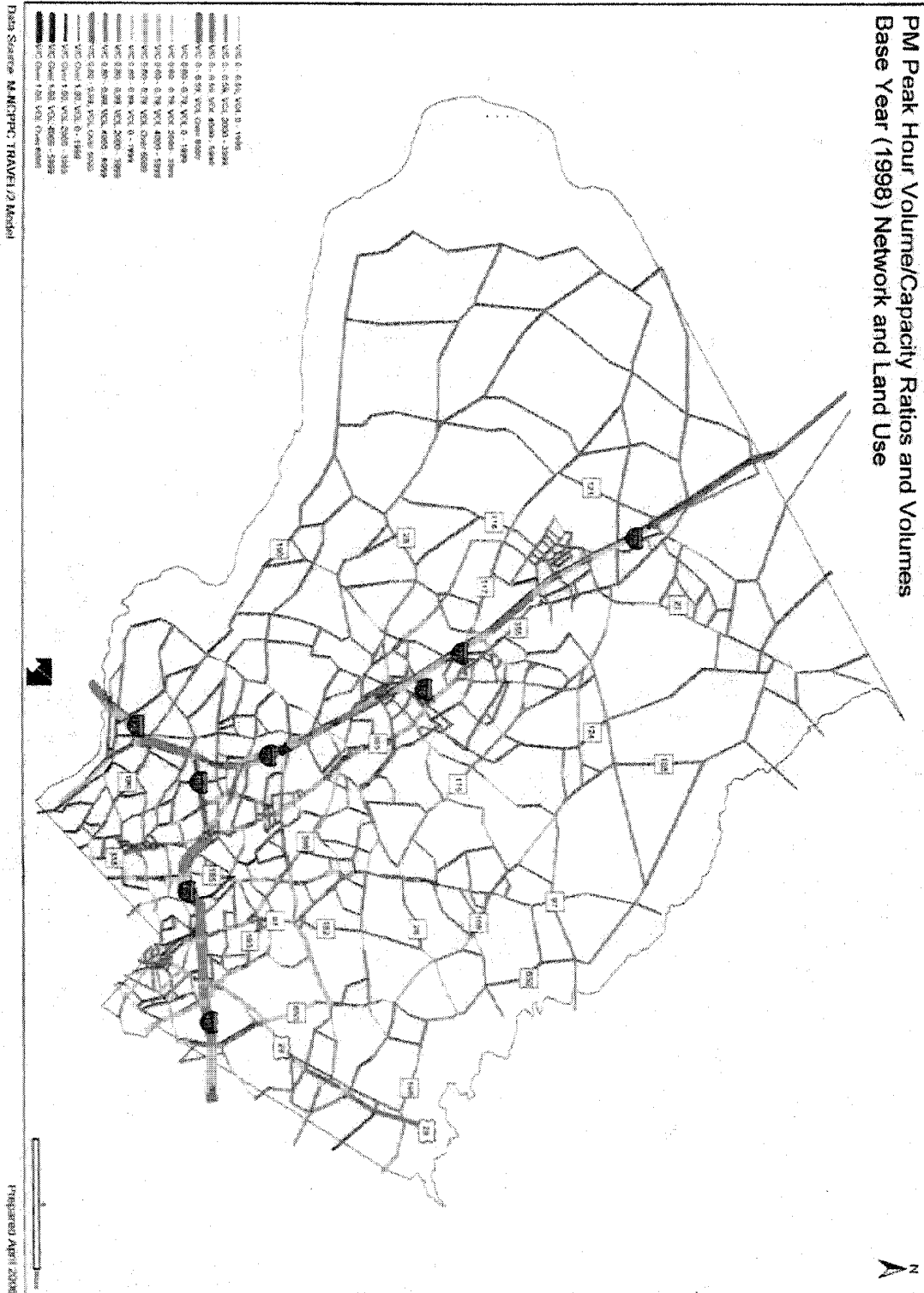
Appendix 5.2C: TRAVEL/2 V/C Ratio Lane-Mile Distribution - Freeway Facilities



Appendix 5.2D: TRAVEL/2 V/C Ratio Lane-Mile Distribution – Non-freeway Facilities



Appendix 5.2E: Map of 1998 PM Peak Hour V/C Ratios and Volumes



Appendix 5.3: Active or Recently Completed Transportation Projects

As of April 2006					
Sources: SHA & DPWT monthly status reports (CTP, CIP) - June 2005 to February 2006, FY 06-11 MD CTP and FY 07-12 County CIP catalogs					
Capacity, intersection, and spot improvements					
Construction Projects (State & County)					
PROJECT NAME	LOCATION/LIMITS	AGENCY	DETAILS	% comp/status	
MD 547	Kenilworth Ave to Weymouth	State	neighborhood conservation project	97%	
MD 650/FDA	Powder Mill Rd to N of US 29	State	intersection improvements	96%	
MD 355	Rand. Rd to Maple/Chapman	State	phase I utilities	90%	
MD 115	MD 28 to Muncaster Rd/Redland Rd	State	safety, geometrics	75%	
US 29 @ Briggs Chaney Rd	intersection vicinity	State	new interchange	56%	
Briggs Chaney Rd	Automobile Blvd to E of Ashton Manor Dr	County	widen from 2 to 4 lanes	37%	
MD 28	Muddy Branch Rd to 1000' east of intersection	State	noise abatement	29%	
Valley Park Dr	1130' section	County	extension	25%	
Stringtown Rd extended	Gateway Center Dr to MD 355	County	extension (participation)	15%	
MD 396	MD 614 to Onodaga Rd	State	safety, resurfacing	14%	
Skylark Road	adjacent to Ovid Hazen Wells Park	County	road construction	13%	
Montrose Pky West	E of Tildenwood to MD 187	County	new 4 lane highway	12%	
Stringtown Rd extended	MD 355 to I-270	County	extension	5%	
Muncaster Road	Rock Creek Bridge vicinity	County	road 3300', bridge reconstruction	0%	
Old Columbia Pike	Perrywood Drive	County	reconstruction (roundabout)	0%	
Park Lane	Battery Ln & Maple Ridge Rd	County	reconstruction	0%	
MD 28 @ Wintergate Dr	intersection vicinity	State	add MD 28 WB left turn lane	0%	
MD 97	I-495 to MD 586 (Veirs Mill Rd)	State	safety, resurfacing	0%	
MD 193	MD 320 to Lebanon Street	State	safety, resurfacing	0%	

SHA Development & Evaluation (D&E)				
I-495 @ MD 355**	interchange ramps	State	widen ramp from I-495 onto SB MD 355 to 2 lanes	PP-TBA
MD 108 @ MD 650**	intersection	State	intersection improvements	PP-TBA
MD 124**	Midcounty Hwy @ Goshen Rd	State	second EB left turn lane addition	PP-TBA
MD 193 (University Blvd) @ I-495**	I-495 Ramps	State	widening, I-495 NB ramp; left turn to SB MD 193	PP-TBA
MD 198 (Spencerville Rd) @**	Kruhm Rd, Good Hope Rd & MD 650	State	intersection improvements	PP-TBA
MD 650/Holton Lane**	to Merrimac Dr 800' e/w of MD 650	State	NB left turn lane addition; safety improvements	PP-TBA
MD 80 (Kemptown Rd)**	Frederick Co line to MD 27	State	safety, resurfacing	PP-TBA
I-270 @ Watkins Mill Rd extended	future interchange @ Watkins Mill extended	State	new interchange	PP
I-270/US 15 multi-modal study	Shady Grove Rd to N Biggs Rd	State	multi-modal improvements	PP
I-495 Ramps @ University Blvd**	intersection vicinity	State	interchange reconstruction	PP
I-495 Ramps @ Georgia Ave**	SB MD 97 (Georgia Ave)	State	widen EB I-495 ramp to SB MD 97 to 2 lanes	PP
I-495/I-95 HOV-lane study	Wilson Bridge to American Legion Bridge	State	widening for HOV-lanes	PP
InterCounty Connector	I-270 to Rt 1 (Laurel)	State	new freeway facility	PP
MD 117 (Clopper Rd)/Diamond Ave**	Great Seneca Pk to I-270 (three phases)	State	intersection improvements, widen to 4/6 lanes	PP
MD 124 (Woodfield Rd) phase III**	S. of Fieldcrest to Warfield Rd	State	widen to 6-lane divided highway	PP
MD 124 (Woodfield Rd) phase I**	S. of Airpark Rd to n. of Fieldcrest Rd	State	widen to 6-lane divided highway	PP
MD 124 (Woodfield Rd) phase II**	Midcounty Hwy to s. of Airpark Rd	State	widen to 6-lane divided highway	PP
MD 28/MD 355/MD 586/MD 911	intersection vicinity	State	new interchange	PP
MD 28/MD198 corridor study	MD 355 to US 29	State	widen to 4/6 lanes, upgrade, etc.	PP
MD 355 @ Randolph Rd/CSX rail	intersection vicinity	State	new interchange	PP
MD 97 (Brookeville Bypass)	MD 97 to N of Town of Brookeville	State	new bypass roadway	PP
MD 97 @ Arcola Ave	intersection vicinity	State	SB left turn lane addition	PP
MD 97 @ MD 28	intersection vicinity	State	new interchange	PP
MD 97 @ Randolph Rd	intersection vicinity	State	new interchange	PP
US 29 @ Blackburn Rd	intersection vicinity	State	new interchange	PP
US 29 @ Fairland/Musgrove Rd	intersection vicinity	State	new interchange	PP
US 29 @ Greencastle La	intersection vicinity	State	new interchange	PP
US 29 @ Stewart La	intersection vicinity	State	new interchange	PP
US 29 @ Tech Rd	intersection vicinity	State	new interchange	PP

County DPWT Facility Planning				
Fairland Rd**	US 29 to Prince George's County line	County	widen from 2 to 3 lanes	TBA
Greencastle Rd**	Greencastle Ridge Terrace to Fairland Park	County	widen from 2 to 4 lanes	TBA
Citadel Ave	Marinelli Rd to Nicholson La	County	extension to Nicholson La	Property acquisition
MD 355 @ Twinbrook Pkwy	intersection vicinity	County	NB right turn lane addition	Property acquisition
Nebel Street	Chapman Ave to Randolph Rd	County	extension to Randolph Rd	Property acquisition
Century Blvd**	Father Hurley Blvd to Crystal Rock Dr	County	extension to Crystal Rock Dr	Participation project
Burtonsville Access Rd	MD 198 to School Access Rd	County	new 2-lane road	Phase II FP (design)
Dale Dr & Colesville Rd**	intersection vicinity	County	construct EB/WB approach lanes	Phase II FP (design)
Father Hurley Blvd**	Wisteria Dr to MD 118	County	extension to MD 118	Phase II FP (design)
Goshen Rd**	Ondenthal Ave to Warfield Rd	County	widen from 2 to 4/6 lanes	Phase II FP (design)
MD 650 @ Oakview Dr**	intersection vicinity	County	intersection improvements	Phase II FP (design)
Randolph Rd	Gaynor Rd to Charles Rd	County	safety improvements	Phase II FP (design)
Redland Rd	Crabbs Branch Way to Needwood Rd	County	intersection improvements	Phase II FP (design)
S. Glen Rd @ Falls Rd**	intersection vicinity	County	EB right turn lane addition @ Falls Rd	Phase II FP (design)
Shady Grove Rd (North)**	Shady Grove Road ne. of I-270	County	noise barriers	Phase II FP (design)
Travilah Rd - phase 1	MD 28 to Duffie Mill Rd	County	reconstruction, improvements	Phase II FP (design)
Warfield Rd @ Plum Creek Dr**	intersection vicinity	County	intersection improvements	Phase II FP (design)
Woodfield Rd Ext (A-12)**	Main St to MD 27	County	new 2 lane roadway	Phase II FP (design)
Chapman Ave	N. of MD 187 to Randolph Rd	County	extension to Randolph Rd	Phase II FP
Montrose Pkwy East	MD 187 to MD 586	County	new 4-lane divided highway	Phase II FP
Quince Orchard Rd (MD 124)	MD 28 to Horse Center Way	County	safety spot improvements	Phase II FP
E. Deer Park**	bridge over RR	County	align new bridge with proposed A-255	Phase I FP
Longdraft Rd	MD 124 to MD 117	County	widen from 2 to 4 lanes	Phase I FP
Midcounty Hwy @ Middlebrook Rd	Montgomery Village Ave to MD 27	County	new 4/6 lane divided highway	Phase I FP
Observation Dr	Water Discover Rd to s. of Stringtown Rd	County	extension to s. of Stringtown Rd	Phase I FP
Snouffer School Rd	Goshen Rd to MD 124	County	widen from 2 to 4 lanes	Phase I FP
Watkins Mill Rd	E. of I-270 to w. of I-270	County	extension E/W of I-270	Phase I FP

Completed Projects (State & County)			
<i>new roads/interchanges:</i>			
*US 29 @ Cherry Hill/Randolph Rd	new interchange	State	
*US 29 @ MD 198 to N. of Dustin Rd	new interchange	State	
Bordly Dr	extension to MD 97	County	
MD 118	Scenary Dr to Watkins Mill Rd	State	
<i>road widenings:</i>			
*MD 117	I-270 to Muddy Branch (phase 1)	State	
*MD 119	Muddy Branch Rd to Sam Eig	State	
MD 28	MD 119 to Riffle Ford Rd	State	
Shady Grove Rd	Briardale Rd to MD 115	County	
<i>grade-separated interchange impr:</i>			
I-270 @ Democracy Blvd		State	
I-270 @ Democracy/Westlake Terr		State	
I-270 @ Fernwood Rd		State	
I-270 @ MD 117		State	
I-270 @ MD 187/Rockledge Dr		State	
I-495 @ MD 187		State	
<i>intersection improvements:</i>			
*Arcola Ave @ MD 97		County	
*E. Jefferson St @ Montrose Rd		County	
*MD 115 @ Avery Rd		State	
*MD 117 @ MD 124		State	
*MD 185 @ Armory Ave		State	
*MD 586 @ Randolph/MD 185		State	
Father Hurley Blvd @ Waters Landing Dr		County	

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MD 124 (M.V. Ave) @ Lost Knife Rd		State	
MD 124 @ Midcounty Hwy		State	
MD 187 @ Democracy Blvd		State	
MD 187 @ Tuckerman La		State	
MD 189 @ MD 190		State	
MD 355 @ Jones Bridge Rd		State	
MD 355 @ MD 187		State	
MD 355 @ Shady Grove Rd		State	
MD 410 @ MD 185		State	
MD 410 @ MD 390		State	
MD 586 @ Aspen Hill Rd		State	
MD 97 @ Tilton Dr		State	
resurfacing/rehabilitation:			
*MD 187	I-495 to Rock Spring, Tuckerman to MD 355	State	
*MD 195	MD 193 to Garland Ave	State	
*MD 320	MD 193 to MD 650	State	
*MD 586	N of Randolph Rd to Parkland Cemetary	State	
*US 29	MD 97 to I-495	State	
*US 29 at I-495	bridge over I-495	State	
MD 117	I-270 to Summitt Ave	State	
MD 189	MD 190 to no. of Glenolden Dr	State	
Wilson La	MD 190 to Moorland La	State	
safety/spot improvements:			
MD 119 @ MD 124 (turn lanes)		State	

*Denotes projects completed after May 2005

**Denotes newly added project or change in status

Key: PP = Project Planning, TBA = awaiting start of construction, Property acquisition = property acquisition phase, Phase I FP = Phase I Facility Planning, Phase II FP = Phase II Facility Planning, Design = plans 35 to 100% complete

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