

APPENDIX K
Total Future Alternative One & Two
Mitigations Capacity Analysis Worksheets

Project Name: National Navy Medical Center
Intersection: Rockville Pike & West Cedar Lane
Location: Montgomery County
Date: 0
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (other improvements).xls\PM Peak (15)

Scenario Total Future Alternative II (with spot improvements)
Peak Hour or Period PM Peak Hour (- pm)
Northbound Approach Rockville Pike
Southbound Approach Rockville Pike **Split Phase (Y)es/(N)o** N
Eastbound Approach West Cedar Lane **Split Phase (Y)es/(N)o** Y
Westbound Approach West Cedar Lane

Intersection CLV 1734.01
Level of Service F

From NORTH (Southbound)

Rockville Pike

R	Right	Thru	Left	
^		1798	160	=VPH
R		3	1	=#Lanes

ON LY | | | CLV(N):
 for <- V -> 951.26
 RTOR

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)

West Cedar Lane

	VPH	#Lanes
Left	334	1
Thru	747	3
Right		
R	CLV(W)=	334

2 <= WB [receiving lanes]
 CLV (N-S)= 1269.63
 CLV (E-W)= 464.38
 SUM CLV= 1734.01 *
 LOS= F EB => 2

From EAST (Westbound)

West Cedar Lane

	#Lanes	VPH	R
NB	0	81	Right
<--	2	165	Thru
v--	2	153	Left
			CLV(E)= 130.38

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): *->over 1,525!!
 1269.63 <- ^ ->
 | | |
 # Lanes= 1 3
 VPH= 286 2999

Left	Thru	Right
------	------	-------

 R

Rockville Pike

From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Rockville Pike & West Cedar Lane
Location: Montgomery County
Date:
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (other improvements).xls\AM Peak (15)

Scenario Total Future Alternative II (with spot improvements)
Peak Hour or Period AM Peak Hour (- am)

Northbound Approach Rockville Pike
Southbound Approach Rockville Pike **Split Phase (Y)es/(N)o** N
Eastbound Approach West Cedar Lane **Split Phase (Y)es/(N)o** Y
Westbound Approach West Cedar Lane

Intersection CLV 1698
Level of Service F

From NORTH (Southbound)
Rockville Pike

R	Right	Thru	Left
^		3133	187
R		3	1

 =VPH
 =#Lanes
 ON LY | | | CLV(N):
 for <- V -> 1165.2
 RTOR

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
West Cedar Lane

	VPH	#Lanes
Left	121	1
Thru	306	3
Right		
R	CLV(W)=	121

2 <= WB [receiving lanes]
 CLV (N-S)= 1165.21
 CLV (E-W)= 532.81
 || -----
 V SUM CLV= 1698.02 *
 LOS= F
 EB => 2

From EAST (Westbound)
West Cedar Lane

	#Lanes	VPH	R
NB	0	152	Right
<--	2	377	Thru
v--	2	777	Left
	CLV(E)=	411.81	

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): *->over 1,525!!
 818.22 <- ^ ->
 | | |
 # Lanes= 1 3
 VPH= 6 1706

Left	Thru	Right
------	------	-------

 R
Rockville Pike
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Rockville Pike & West Cedar Lane
Location: Montgomery County
Date: 0
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (with extra lanes).xls\PM Peak (15)

Scenario Total Future Alternative II (with extra lanes)
Peak Hour or Period PM Peak Hour (- pm)
Northbound Approach Rockville Pike
Southbound Approach Rockville Pike **Split Phase (Y)es/(N)o** N
Eastbound Approach West Cedar Lane **Split Phase (Y)es/(N)o** Y
Westbound Approach West Cedar Lane

Intersection CLV 1546.7
Level of Service E

From NORTH (Southbound)
Rockville Pike

R	Right	Thru	Left	
^		1798	160	=VPH
R		4	1	=#Lanes

ON LY | | | CLV(N):
 for <- V -> 825.4
 RTOR

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
West Cedar Lane

	VPH	#Lanes
Left	334	1
Thru	747	3
Right		
R	CLV(W)=	334

2 <= WB [receiving lanes]
 CLV (N-S)= 1059.7
 CLV (E-W)= 487
 || -----
 V SUM CLV= 1546.7 *
 3 LOS= E EB => 2

From EAST (Westbound)
West Cedar Lane

	#Lanes	VPH	R
NB	0	81	Right
<--	2	165	Thru
v--	1	153	Left
	CLV(E)=	153	

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): *->over 1,525!!
 1059.7 <- ^ ->
 | | |
 # Lanes= 1 4
 VPH= 286 2999

Left	Thru	Right
------	------	-------

Rockville Pike
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Rockville Pike & West Cedar Lane
Location: Montgomery County
Date:
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (with extra lanes).xls\AM Peak (15)

Scenario	Total Future Alternative II (with extra lanes)		
Peak Hour or Period	AM Peak Hour (- am)		
Northbound Approach	Rockville Pike	Split Phase (Y)es/(N)o	N
Southbound Approach	Rockville Pike		
Eastbound Approach	West Cedar Lane	Split Phase (Y)es/(N)o	Y
Westbound Approach	West Cedar Lane		

Intersection CLV 1881
Level of Service F

From NORTH (Southbound)

Rockville Pike

R	Right	Thru	Left	=VPH
^		3133	187	
R		4	1	=#Lanes

ON LY | | | CLV(N):
 for <- V -> 945.9
 RTOR

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)

West Cedar Lane

	VPH	#Lanes
Left	121	0
Thru	306	3
Right		
R	CLV(W)= 157.99	

From EAST (Westbound)

West Cedar Lane

	#Lanes	VPH	R
NB	0	152	Right
<--	2	377	Thru
v--	1	777	Left
2	CLV(E)= 777		

CLV(S): *->over 1,525!!
 698.8 <- ^ ->
 | | |
 # Lanes= 1 4
 VPH= 6 1706

Left	Thru	Right
------	------	-------

 R

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

If Split Phase:E-W!!
 Use "N" or "Y": Y

Rockville Pike
From SOUTH (Northbound)

Project Name: National Navy Medical Center
Intersection: Rockville Pike & West Cedar Lane
Location: Montgomery County
Date: 0
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (spot imp.s & extra lane).xls\PM Peak (15)

Scenario Total Future Alternative II (with spot imp & extra lane)
Peak Hour or Period PM Peak Hour (- pm)
Northbound Approach Rockville Pike
Southbound Approach Rockville Pike **Split Phase (Y)es/(N)o** N
Eastbound Approach West Cedar Lane **Split Phase (Y)es/(N)o** Y
Westbound Approach West Cedar Lane

Intersection CLV 1524.08
Level of Service E

From NORTH (Southbound)
Rockville Pike

R	Right	Thru	Left	
^		1798	160	=VPH
R		4	1	=#Lanes

ON LY | | | CLV(N):
 for <- V -> 825.4
 RTOR

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
West Cedar Lane

	VPH	#Lanes	
Left	334	1	--^
Thru	747	3	-->
Right			--v
R	CLV(W)=	334	

2 <= WB [receiving lanes]
 CLV (N-S)= 1059.7
 CLV (E-W)= 464.38
 || -----
 V SUM CLV= 1524.08 ok
 3 LOS= E EB => 2

From EAST (Westbound)
West Cedar Lane

	#Lanes	VPH	R
NB ^--	0	81	Right
<--	2	165	Thru
v--	2	153	Left
	CLV(E)=	130.38	

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): (ok-under 1,525)
 1059.7 <- ^ ->
 | | |
 # Lanes= 1 4
 VPH= 286 2999

Left	Thru	Right
------	------	-------

 R

Rockville Pike
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Rockville Pike & West Cedar Lane
Location: Montgomery County
Date:
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (spot imp.s & extra lane).xls\AM Peak (15)

Scenario Total Future Alternative II (with spot imp & extra lane)
Peak Hour or Period AM Peak Hour (- am)

Northbound Approach	Rockville Pike	Split Phase (Y)es/(N)o	N
Southbound Approach	Rockville Pike		
Eastbound Approach	West Cedar Lane	Split Phase (Y)es/(N)o	Y
Westbound Approach	West Cedar Lane		

Intersection CLV 1479
Level of Service E

From NORTH (Southbound)
Rockville Pike

R	Right	Thru	Left	=VPH
^		3133	187	
R		4	1	=#Lanes

ON LY | | | CLV(N):
 for <- V -> 945.9
 RTOR

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
West Cedar Lane

	VPH	#Lanes
Left	121	1
Thru	306	3
Right		
R	CLV(W)= 121	

2 <= WB [receiving lanes]
 CLV (N-S)= 945.9
 CLV (E-W)= 532.81
 || -----
 V SUM CLV= 1478.71 ok
 3 LOS= E EB => 2

From EAST (Westbound)
West Cedar Lane

	#Lanes	VPH	R
NB ^--	0	152	Right
<--	2	377	Thru
v--	2	777	Left
	CLV(E)= 411.81		

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): (ok-under 1,525)
 698.8 <- ^ ->
 | | |
 # Lanes=

1	4	
---	---	--

 VPH=

6	1706	
Left	Thru	Right

Rockville Pike
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: South Wood Road & Palmer Road South
Location: Montgomery County
Date: #REF!
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (other improvements).xls\PM Peak (I22)

Scenario Total Future Alternative II (with spot improvements)
Peak Hour or Period PM Peak Hour (- pm)
Northbound Approach Old Georgetown Rd.
Southbound Approach Old Georgetown Rd. **Split Phase (Y)es/(N)o** N
Eastbound Approach West Cedar Lane **Split Phase (Y)es/(N)o** N
Westbound Approach West Cedar Lane

Intersection CLV 1647.22
Level of Service F

From NORTH (Southbound)
Old Georgetown Rd.

R	Right	Thru	Left	=VPH
^	44	1381	447	
R	0	3	2	=#Lanes

ON LY | | | CLV(N):
 for <- V -> 576.25
 RTOR

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
West Cedar Lane

	VPH	#Lanes
Left	30	0
Thru	47	1
Right	23	0
R	CLV(W)= 323	

2 <= WB [receiving lanes]
 CLV (N-S)= 1222.22
 CLV (E-W)= 425
 SUM CLV= 1647.22 *
 LOS= F EB => 2

From EAST (Westbound)
West Cedar Lane

	#Lanes	VPH	R
NB	0	351	Right
<--	1	44	Thru
v--	1	223	Left
	CLV(E)= 425		

If Split Phase:E-W!!
 Use "N" or "Y": N

CLV(S): *->over 1,525!!
 1222.22 <- ^ ->
 | | |
 # Lanes= 1 3 0
 VPH= 49 2161 502

Left	Thru	Right
------	------	-------

 R
Old Georgetown Rd.
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: South Wood Road & Palmer Road South
Location: Montgomery County
Date:
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (with extra lanes).xls\PM Peak (122)

Scenario Total Future Alternative II (with reversible lanes)
Peak Hour or Period PM Peak Hour (- pm)
Northbound Approach Old Georgetown Rd.
Southbound Approach Old Georgetown Rd. **Split Phase (Y)es/(N)o** N
Eastbound Approach West Cedar Lane **Split Phase (Y)es/(N)o** N
Westbound Approach West Cedar Lane

Intersection CLV 1670.9
Level of Service F

From NORTH (Southbound)
Old Georgetown Rd.

R	Right	Thru	Left	=VPH
^	44	1381	447	
R	0	3	1	=#Lanes
ON LY				CLV(N):
for	<-	V	->	576.25
RTOR				

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
West Cedar Lane

	VPH	#Lanes	
Left	30	0	--^
Thru	47	1	-->
Right	23	0	--v
R	CLV(W)= 323		

2 <= WB [receiving lanes]
 CLV (N-S)= 1245.9
 CLV (E-W)= 425
 || -----
 V SUM CLV= 1670.9 *
 2 LOS= F EB => 2

From EAST (Westbound)
West Cedar Lane

	#Lanes	VPH	R
NB ^--	0	351	Right
<--	1	44	Thru
v--	1	223	Left
	CLV(E)= 425		

If Split Phase:E-W!!
 Use "N" or "Y": N

CLV(S): *->over 1,525!!
 1245.9 <- ^ ->
 | | |
 # Lanes= 1 4 0
 VPH= 49 2161 502

Left	Thru	Right	R
------	------	-------	---

Old Georgetown Rd.
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: South Wood Road & Palmer Road South
Location: Montgomery County
Date:
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (spot imp.s & extra lane).xls\PM Peak (I22)

Scenario Total Future Alternative II (with spot imp & extra lane)
Peak Hour or Period PM Peak Hour (- pm)
Northbound Approach Old Georgetown Rd.
Southbound Approach Old Georgetown Rd. **Split Phase (Y)es/(N)o** N
Eastbound Approach West Cedar Lane **Split Phase (Y)es/(N)o** N
Westbound Approach West Cedar Lane

Intersection CLV 1460.81
Level of Service D/E

From NORTH (Southbound)
Old Georgetown Rd.

R	Right	Thru	Left	=VPH
^	44	1381	447	
R	0	3	2	=#Lanes

ON LY | | | CLV(N):
for <- V -> 576.25
RTOR

<- If Split Phase:N-S!!
Use "N" or "Y": N

From WEST (Eastbound)
West Cedar Lane

	VPH	#Lanes	
Left	30	0	--^
Thru	47	1	-->
Right	23	0	--v
R	CLV(W)=	323	

2 <= WB [receiving lanes]
CLV (N-S)= 1035.81
CLV (E-W)= 425
SUM CLV= 1460.81 ok
LOS= D/E EB => 2

From EAST (Westbound)
West Cedar Lane

	#Lanes	VPH	R
NB ^--	0	351	Right
<--	1	44	Thru
v--	1	223	Left
	CLV(E)=	425	

If Split Phase:E-W!!
Use "N" or "Y": N

CLV(S): (ok-under 1,525)
1035.81 <- ^ ->
| | |
Lanes= 1 4 0
VPH= 49 2161 502
Left Thru Right R

Old Georgetown Rd.
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
If # Lanes=0, then
Rights use Thru Lane
Left Turns use Thru Lane
MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Rockville Pike & North Drive
Location: Montgomery County
Date:
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (with extra lanes).xls\AM Peak (16)

Scenario	Total Future Alternative II (with extra lanes)		
Peak Hour or Period	AM Peak Hour (- am)		
Northbound Approach	Rockville Pike	Split Phase (Y)es/(N)o	N
Southbound Approach	Rockville Pike		
Eastbound Approach	North Drive	Split Phase (Y)es/(N)o	N
Westbound Approach	North Drive		

Intersection CLV 1301
Level of Service C/D

From NORTH (Southbound)

Rockville Pike

R	Right	Thru	Left	=VPH
^	386	3948	0	
R	0	4	0	=#Lanes

ON LY | | | CLV(N):
 for <- V -> 1300.2
 RTOR

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)

North Drive

	VPH	#Lanes	
Left	0	0	--^
Thru	0	0	-->
Right	1	1	--v
R	CLV(W)= 1		

2 <= WB [receiving lanes]

CLV (N-S)= 1300.2
 CLV (E-W)= 1
 SUM CLV= 1301.2 ok
 LOS= C/D EB => 2

From EAST (Westbound)

North Drive

	#Lanes	VPH	R
NB ^--	0	0	Right
<--	0	0	Thru
v--	0	0	Left
	CLV(E)= 0		

If Split Phase:E-W!!
 Use "N" or "Y": N

CLV(S): (ok-under 1,525)
 459.6 <- ^ ->
 | | |
 # Lanes= 0 4 0
 VPH= 0 1532 0

Left	Thru	Right	R
------	------	-------	---

Rockville Pike

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

From SOUTH (Northbound)

Project Name: National Navy Medical Center
Intersection: Rockville Pike & Jones Bridge Road
Location: Montgomery County
Date: 0
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (other improvements).xls\PM Peak (110)

Scenario Total Future Alternative II (with spot improvements)
Peak Hour or Period PM Peak Hour (- pm)
Northbound Approach Rockville Pike
Southbound Approach Rockville Pike **Split Phase (Y)es/(N)o** N
Eastbound Approach Jones Bridge Road **Split Phase (Y)es/(N)o** Y
Westbound Approach Jones Bridge Road

Intersection CLV **1669.41**
Level of Service **F**

From NORTH (Southbound)

Rockville Pike

R	Right	Thru	Left	
^	12	1616	557	=VPH
R	0	3	1	=#Lanes

ON LY | | | CLV(N):
 for <- V -> 622.36
 RTOR

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)

Jones Bridge Road

	VPH	#Lanes
Left	178	1
Thru	276	2
Right	79	0
R	CLV(W)= 188.15	

2 <= WB [receiving lanes]
 CLV (N-S)= 1305.14
 CLV (E-W)= 364.27
 SUM CLV= 1669.41 *
 LOS= F EB => 2

From EAST (Westbound)

Jones Bridge Road

#Lanes	VPH	R
		Right
3	12	Thru
0	464	Left
CLV(E)= 176.12		

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): *->over 1,525!!
 1305.14 <- ^ ->
 | | |
 # Lanes= 1 3
 VPH= 20 2022

Left	Thru	Right
------	------	-------

Rockville Pike
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Rockville Pike & Jones Bridge Road
Location: Montgomery County
Date: 0
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (with extra lanes).xls\PM Peak (I10)

Scenario Total future Alternative II (with extra lanes)
Peak Hour or Period PM Peak Hour (- pm)
Northbound Approach Rockville Pike
Southbound Approach Rockville Pike **Split Phase (Y)es/(N)o** N
Eastbound Approach Jones Bridge Road **Split Phase (Y)es/(N)o** Y
Westbound Approach Jones Bridge Road

Intersection CLV 1580.34
Level of Service E/F

From NORTH (Southbound)
Rockville Pike

R	Right	Thru	Left	
^	12	1616	557	=VPH
R	0	4	1	=#Lanes

ON LY | | | CLV(N):
for <- V -> 508.4
RTOR

<- If Split Phase:N-S!!
Use "N" or "Y": N

From WEST (Eastbound)
Jones Bridge Road

	VPH	#Lanes	
Left	178	0	--^
Thru	276	2	-->
Right	79	1	--v
R	CLV(W)= 240.62		

2 <= WB [receiving lanes]
CLV (N-S)= 1163.6
CLV (E-W)= 416.74
SUM CLV= 1580.34 *
LOS= E/F EB => 2

From EAST (Westbound)
Jones Bridge Road

	#Lanes	VPH	R
Right			^--
Thru	3	12	<--
Left	0	464	v--
	CLV(E)= 176.12		

If Split Phase:E-W!!
Use "N" or "Y": Y

CLV(S): *->over 1,525!!
1163.6 <- ^ ->
| | |
Lanes= 1 4
VPH= 20 2022
Left Thru Right R

Rockville Pike
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
If # Lanes=0, then
Rights use Thru Lane
Left Turns use Thru Lane
MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Rockville Pike & Jones Bridge Road
Location: Montgomery County
Date: 0
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (spot imp.s & extra lane).xls\PM Peak (I10)

Scenario	Total Future Alternative II (with spot imp & Extra lane)		
Peak Hour or Period	PM Peak Hour (- pm)		
Northbound Approach	Rockville Pike	Split Phase (Y)es/(N)o	N
Southbound Approach	Rockville Pike		
Eastbound Approach	Jones Bridge Road	Split Phase (Y)es/(N)o	Y
Westbound Approach	Jones Bridge Road		

Intersection CLV 1527.87
Level of Service E

From NORTH (Southbound)
Rockville Pike

R	Right	Thru	Left	=VPH
^	12	1616	557	
R	0	4	1	=#Lanes

ON LY | | | CLV(N):
 for <- V -> 508.4
 RTOR

<- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
Jones Bridge Road

	VPH	#Lanes
Left	178	1
Thru	276	2
Right	79	0
R	CLV(W)= 188.15	

2 <= WB [receiving lanes]
 CLV (N-S)= 1163.6
 CLV (E-W)= 364.27
 SUM CLV= 1527.87 *
 LOS= E EB =>

From EAST (Westbound)
Jones Bridge Road

	#Lanes	VPH	R
Right			
Thru	3	12	
Left	0	464	
2	CLV(E)= 176.12		

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): *->over 1,525!!
 1163.6 <- ^ ->
 | | |
 # Lanes=

1	4	
---	---	--

 VPH=

20	2022	
----	------	--

Left	Thru	Right
------	------	-------

 R

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Rockville Pike
From SOUTH (Northbound)

Project Name: National Navy Medical Center
Intersection: Jones Bridge Road & Connecticut Avenue
Location: Montgomery County
Date: 0
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (other improvements).xls\PM Peak (I26)

Scenario Total Future Alternative II (with spot improvements)
Peak Hour or Period PM Peak Hour (- pm)

Northbound Approach Connecticut Avenue
Southbound Approach Connecticut Avenue

Split Phase (Y)es/(N)o N

Eastbound Approach Jones Bridge Road
Westbound Approach Jones Bridge Road

Split Phase (Y)es/(N)o Y

Intersection CLV 1986.54
Level of Service F

From NORTH (Southbound)
Connecticut Avenue

R	Right	Thru	Left
^		1569	1
R		3	0

=VPH
 =#Lanes
 ON LY | | | CLV(N):
 for <- V -> 580.9
 RTOR

From NORTHEAST(Southbound)
Kensington Pkwy

	Right	Thru	Left
^	2	30	36
R	0	1	1

ON LY | | |
 for <- V ->
 <- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
Jones Bridge Road

	VPH	#Lanes
Left	1274	0
Thru	690	4
Right		
R	CLV(W)=	589.2

2 <= WB [receiving lanes]
 CLV (N-S)= 1067.34
 CLV (E-W)= 919.2
 SUM CLV= 1986.54 *
 LOS= F
 EB => 2

From EAST (Westbound)
Jones Bridge Road

	#Lanes	VPH	
NB	1	294	Right
<--	2	283	Thru
v--	0	59	Left
	CLV(E)=	294	

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): *->over 1,525!!
 1067.34 <- ^ ->
 | | |
 # Lanes= 0 3 0
 VPH= 0 2758 124

Left	Thru	Right
------	------	-------

Connecticut Avenue
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Jones Bridge Road & Connecticut Avenue
Location: Montgomery County
Date:
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (other improvements).xls\AM Peak (I26)

Scenario Total Future Alternative II (with spot improvements)
Peak Hour or Period AM Peak Hour (- am)

Northbound Approach Connecticut Avenue
Southbound Approach Connecticut Avenue

Split Phase (Y)es/(N)o N

Eastbound Approach Jones Bridge Road
Westbound Approach Jones Bridge Road

Split Phase (Y)es/(N)o Y

Intersection CLV 1563
Level of Service E

From NORTH (Southbound)
Connecticut Avenue

R	Right	Thru	Left
^		2379	2
R		3	0

=VPH
 =#Lanes
 ON LY | | | CLV(N):
 for <- V -> 880.97
 RTOR

From NORTHEAST (Southbound)
Kensington Pkwy

	Right	Thru	Left
^	8	112	191
R	0	1	1

ON LY | | |
 for <- V ->
 <- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
Jones Bridge Road

	VPH	#Lanes
Left	337	0
Thru	270	4
Right		
R	CLV(W)=	182.1

2 <= WB [receiving lanes]
 CLV (N-S)= 880.97
 CLV (E-W)= 681.56
 SUM CLV= 1562.53 *
 LOS= E EB => 2

From EAST (Westbound)
Jones Bridge Road

	#Lanes	VPH	
NB	1	211	Right
<--	2	567	Thru
v--	0	15	Left
	CLV(E)=	308.46	

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): *->over 1,525!!
 676.88 <- ^ ->
 | | |
 # Lanes= 0 3 0
 VPH= 0 1782 42

Left	Thru	Right
------	------	-------

Connecticut Avenue
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Jones Bridge Road & Connecticut Avenue
Location: Montgomery County
Date: 0
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (with extra lanes).xls\PM Peak (I26)

Scenario Total Future Alternative II (with extra lanes)
Peak Hour or Period PM Peak Hour (- pm)

Northbound Approach Connecticut Avenue
Southbound Approach Connecticut Avenue

Split Phase (Y)es/(N)o N

Eastbound Approach Jones Bridge Road
Westbound Approach Jones Bridge Road

Split Phase (Y)es/(N)o Y

Intersection CLV 1870.82
Level of Service F

From NORTH (Southbound) Connecticut Avenue

R	Right	Thru	Left
^		1569	1
R		3	0

=VPH
 =#Lanes
 ON LY | | | CLV(N):
 for <- V -> 580.9
 RTOR

From NORTHEAST(Southbound) Kensington Pkwy

	Right	Thru	Left
^	2	30	36
R	0	1	1

ON LY | | |
 for <- V ->
 <- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound) Jones Bridge Road

	VPH	#Lanes
Left	1274	2
Thru	690	2
Right		
R	CLV(W)=	675.22

2 <= WB [receiving lanes]
 CLV (N-S)= 865.6
 CLV (E-W)= 1005.22
 SUM CLV= 1870.82 *
 LOS= F EB => 2

From EAST (Westbound) Jones Bridge Road

	#Lanes	VPH	
NB	1	294	Right
<--	2	283	Thru
v--	0	59	Left
	CLV(E)=	294	

If Split Phase:E-W!!
 Use "N" or "Y": Y

Connecticut Avenue From SOUTH (Northbound)

# Lanes=	0	4	0
VPH=	0	2758	124
	Left	Thru	Right

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Jones Bridge Road & Connecticut Avenue
Location: Montgomery County
Date:
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (with extra lanes).xls\AM Peak (I26)

Scenario Total Future Alternative II (with extra lanes)
Peak Hour or Period AM Peak Hour (- am)

Northbound Approach Connecticut Avenue
Southbound Approach Connecticut Avenue

Split Phase (Y)es/(N)o N

Eastbound Approach Jones Bridge Road
Westbound Approach Jones Bridge Road

Split Phase (Y)es/(N)o Y

Intersection CLV 1392
Level of Service D

From NORTH (Southbound)
Connecticut Avenue

R	Right	Thru	Left
^		2379	2
R		4	0

 =VPH
 =#Lanes
 ON LY | | | CLV(N):
 for <- V -> 714.3
 RTOR

From NORTHEAST (Southbound)
Kensington Pkwy

	Right	Thru	Left
^	8	112	191
R	0	1	1

 ON LY | | |
 for <- V ->
 <- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
Jones Bridge Road

	VPH	#Lanes
Left	337	2
Thru	270	2
Right		
R	CLV(W)=	178.61

2 <= WB [receiving lanes]
 CLV (N-S)= 714.3
 CLV (E-W)= 678.07
 || -----
 V SUM CLV= 1392.37 ok
 LOS= D EB => 2

From EAST (Westbound)
Jones Bridge Road

	#Lanes	VPH	
NB ^--	1	211	Right
<--	2	567	Thru
v--	0	15	Left
	CLV(E)=	308.46	

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): (ok-under 1,525)
 549.2 <- ^ ->
 | | |
 # Lanes=

0	4	0
---	---	---

 VPH=

0	1782	42
Left	Thru	Right

Connecticut Avenue
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Jones Bridge Road & Connecticut Avenue
Location: Montgomery County
Date: 0
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (spot imp.s & extra lane).xls\PM Peak (I26)

Scenario Total Future Alternative II (with extra lane & spot imp)
Peak Hour or Period PM Peak Hour (- pm)

Northbound Approach Connecticut Avenue
Southbound Approach Connecticut Avenue

Split Phase (Y)es/(N)o N

Eastbound Approach Jones Bridge Road
Westbound Approach Jones Bridge Road

Split Phase (Y)es/(N)o Y

Intersection CLV 1784.8
Level of Service F

From NORTH (Southbound)
Connecticut Avenue

R	Right	Thru	Left	
^		1569	1	=VPH
R		4	0	=#Lanes
ON LY				CLV(N):
for <-	V	->		471
RTOR				

From NORTHEAST(Southbound)
Kensington Pkwy

	Right	Thru	Left
^	2	30	36
R	0	1	1
ON LY			
for <-	V	->	
If Split Phase:N-S!!			
Use "N" or "Y": N			

From WEST (Eastbound)
Jones Bridge Road

	VPH	#Lanes	
Left	1274	0	--^
Thru	690	4	-->
Right			--v
R	CLV(W)=	589.2	

2 <= WB [receiving lanes]
 CLV (N-S)= 865.6
 CLV (E-W)= 919.2
 SUM CLV= 1784.8 *
 LOS= F EB => 2

From EAST (Westbound)
Jones Bridge Road

	#Lanes	VPH	
NB ^--	1	294	Right
<--	2	283	Thru
v--	0	59	Left
CLV(E)=	294		

If Split Phase:E-W!!
 Use "N" or "Y": Y

From SOUTH (Northbound)
Connecticut Avenue

# Lanes=	0	4	0
VPH=	0	2758	124
	Left	Thru	Right

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9

Project Name: National Navy Medical Center
Intersection: Jones Bridge Road & Connecticut Avenue
Location: Montgomery County
Date:
Filename: P:\2080-001 NNMC\Analysis\CLVs\CLV-(Total Future) Alternative II (spot imp.s & extra lane).xls\AM Peak (I26)

Scenario Total Future Alternative II (with spot imp & extra lane)
Peak Hour or Period AM Peak Hour (- am)

Northbound Approach Connecticut Avenue
Southbound Approach Connecticut Avenue

Split Phase (Y)es/(N)o N

Eastbound Approach Jones Bridge Road
Westbound Approach Jones Bridge Road

Split Phase (Y)es/(N)o Y

Intersection CLV 1396
Level of Service D

From NORTH (Southbound)
Connecticut Avenue

R	Right	Thru	Left
^		2379	2
R		4	0

 =VPH
 =#Lanes
 ON LY | | | CLV(N):
 for <- V -> 714.3
 RTOR

From NORTHEAST (Southbound)
Kensington Pkwy

	Right	Thru	Left
^	8	112	191
R	0	1	1

 ON LY | | |
 for <- V ->
 <- If Split Phase:N-S!!
 Use "N" or "Y": N

From WEST (Eastbound)
Jones Bridge Road

	VPH	#Lanes
Left	337	0
Thru	270	4
Right		
R	CLV(W)=	182.1

2 <= WB [receiving lanes]
 CLV (N-S)= 714.3
 CLV (E-W)= 681.56
 || -----
 V SUM CLV= 1395.86 ok
 LOS= D EB => 2

From EAST (Westbound)
Jones Bridge Road

	#Lanes	VPH	
NB ^--	1	211	Right
<--	2	567	Thru
v--	0	15	Left
	CLV(E)=	308.46	

If Split Phase:E-W!!
 Use "N" or "Y": Y

CLV(S): (ok-under 1,525)
 549.2 <- ^ ->
 | | |
 # Lanes=

0	4	0
---	---	---

 VPH=

0	1782	42
Left	Thru	Right

Connecticut Avenue
From SOUTH (Northbound)

E2,N9,K19,A13 RTOR=R
 If # Lanes=0, then
 Rights use Thru Lane
 Left Turns use Thru Lane
 MUST hit CALC-F9