Appendix G

FAR Comparason Table

Diffe

	Proposed	Floor Area	(incl. garage	& 1/2 basemt)	(sq. ft.)	6,247	6,211	6,187	6,137	5,890	5,813	5,799	5,687	5,686	5,686	5,686	65,029
t Layout				Proposed	FAR %	22%	22%	25%	21%	26%	27%	26%	29%	29%	29%	29%	
Cluster 11 Lot Layout				Theoretical	FAR %	21.72%	21.64%	24.35%	20.51%	26.40%	26.65%	26.57%	29.98%	29.15%	29.40%	29.24%	
0				Lot Area	(sq. ft.)	28,397	28,231	24,747	29,224	22,655	21,529	22,303	19,610	19,607	19,607	19,606	
					Lot #	ω	7	9	4	5	2	ო	о	10	11	12	

12/5/2008 4/3/2009	Lot Layout	Max. Floor	Area (20%)	(incl. garage	& 1/2 basemt)	(sq. ft.)	6,169	6,109	6,027	5,993	5,980	5,737	5,927	5,880	5,715	5,765	5,733	65,035
ted: I Layout ayout	Standard 11 L				Lot Area	(sq. ft.)	30,849	30,547	30,136	29,967	29,904	28,684	29,638	29,400	28,576	28,828	28,667	
Plans Dated: Standard Layout Cluster Layout	Sta					Lot #	9	4	5	ω	7	10	ო	თ	11	-	12	

KURY HOMES MOUNTAINVIEW AVENUE Appendix H

Sample Photos



Photo A



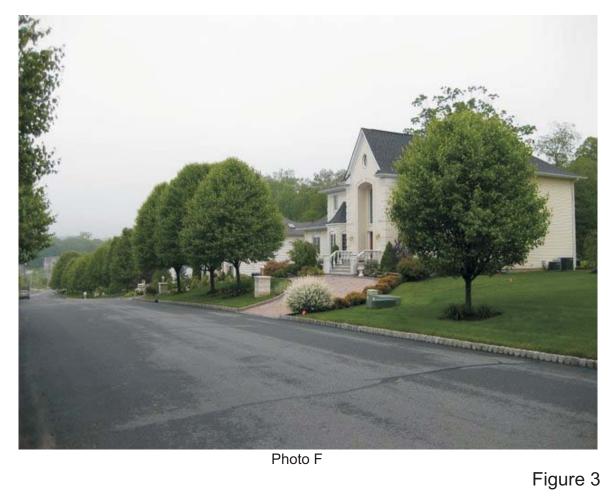


Photo C





Photo E



Appendix I

ACOE Jurisdictional Determination 2-4-2009 8456276622





DEPARTMENT OF THE ARMY NEW YORK DISTRICT, CORPS OF ENGINEERS JACOB K. JAVITS FEDERAL BUILDING NEW YORK, N.Y. 10278-0090

FEB 0 4 2009

Regulatory Branch

SUBJECT: Permit Application Number NAN-2009-00015-EJE by Kury Homes, Inc.

Kury Homes, Inc. 493 South Main Street New City, NY 10956

Dear Sirs or Mesdames:

On January 6, 2009, the New York District of the U.S. Army Corps of Engineers received a request for a Department of the Army jurisdictional determination for the above referenced project. This request was made by Robert G. Torgersen, as consultant for Kury Homes, Inc. The site consists of approximately 10.3 acres, in the Lower Hudson watershed, in the Town of Clarkstown, Rockland County, New York. The proposed project would involve residential development.

In the letter received on January 6, 2009, your office submitted a proposed delineation of the extent of waters of the United States within the project boundary. The USACE concurs with the delineation report prepared by Robert G. Torgersen, and dated December 22, 2008.

Based on the material submitted, this site has been determined to contain jurisdictional waters of the United States based on: the presence of wetlands determined by the occurrence of hydrophytic vegetation, hydric soils and wetland hydrology according to criteria established in the 1987 "Corps of Engineers Wetlands Delineation Manual, " Technical Report Y-87-1 that are either adjacent to or part of a tributary system; the presence of a defined water body (e.g. stream channel, lake, pond, river, etc.) which is part of a tributary system; and the fact that the location includes property below the ordinary high water mark, high tide line or mean high water mark of a water body as determined by known gage data or by the presence of physical markings including, but not limited to, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter or debris or other characteristics of the surrounding area.

These jurisdictional waters of the United States are shown on the drawing entitled "Kury Homes Wetland Delineation Map", prepared by Atzl, Scatassa & Zigler, dated October 2, 2008. This drawing indicates that there is one (1) principal wetland area on the project site which is part of a tributary system, and is considered to be waters of the United States. The wetland is located in the western portion of the property and is approximately 1.06 acres within the project boundary. These wetlands are considered to be below the headwaters. Furthermore, 02-23-'09 10:32 FROM-Robert G Torgersen 8456276622 T-152 P003 F-905 there are four (4) tributaries located on the project site which are part of a tributary system, and are considered to be waters of the United States. The tributaries total 875 linear feet of stream and approximately 0.12 acres. The tributaries flow to the Hudson River.

This determination regarding the delineation shall be considered valid for a period of five years from the date of this letter unless new information warrants revision of the determination before the expiration date.

This determination was documented using the Approved Jurisdictional Determination Form, promulgated by the Corps of Engineers in June 2007. A copy of that document is enclosed with this letter, and will be posted on the New York District website at:

http://www.nan.usace.army.mil/business/buslinks/regulat/jurisdet/i
ndex.htm.

This written Corps jurisdictional determination (JD) has been conducted to identify whether a wetland and/or waterbody is subject to regulatory jurisdiction under Section 404 of the Clean Water Act (33 U.S.C. 1344) and/or under Section 9 or 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 401 et seq.). If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed is a combined Notification of Appeal Process (NAP) and Request For Appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the North Atlantic Division Office at the following address:

Michael G. Vissichelli, Regulatory Appeals Review Officer North Atlantic Division, U.S. Army Engineer Division Fort Hamilton Military Community General Lee Avenue, Building 301 Brooklyn, New York 11252-6700

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Park 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by APR 1 2009 . It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this letter.

This delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

It is strongly recommended that the development of the site be carried out in such a manner as to avoid as much as possible 02-23-'09 10:33 FROM-Robert G Torgersen 8456276622 T-152 P004 F-905 the discharge of dredged or fill material into the delineated waters of the United States. If the activities proposed for the site involve such discharges, authorization from this office may be necessary prior to the initiation of the proposed work. The extent of such discharge of fill will determine the level of authorization that would be required.

If any questions should arise concerning this matter, please contact Stacey M. Jensen, of my staff, at (917) 790-8420.

Sincerely,

Géorge N

Chief, Eastern Permits Section

Enclosures

Robert G. Torgersen 3 Main Drive Nanuet, NY 10954

	NOTIFICATION OF ADMIN	STRATIVE APPEAL OPTIONS A	AND PROCESS AND
App	licant: Kury Homes, Inc.	Pile Number: NAN-2009-00015-EJE	Date: FEB 0 4 2009
Atte	ched is:	· · · · · · · · · · · · · · · · · · ·	Scc Section Below
ļ	INITIAL PROFFERED PERMIT (Standard Per	mit or Letter of Permission)	A
	PROFFERED PERMIT (Standard Permit or Let	ter of Permission)	В
	PERMIT DENIAL		С
x	APPROVED JURISDICTIONAL DETERMIN	ATION	D
	PRELIMINARY JURISDICTIONAL DETERM	INATION	Е
	TION I - The following identifies your rights and mation may be found at http://usace.army.mil/inet NITIAL PROFFERED PERMIT: You may accep	functions/cw/cecwo/reg or Corps regulations a	ne above decision. Additional at 33 CFR Part 331.
•OB. •OB. o ta (i P E	CEPT: If you received a Standard Permit, you may uthorization. If you received a Letter of Permission the Standard Permit or acceptance of the LOP mean including its terms and conditions, and approved junct ECT: If you object to the permit (Standard or LO e modified accordingly. You must complete Section bjections must be received by the New York Distr bipetions must be received by the New York Distr o appeal the permit in the future. Upon receipt of a) modify the permit to address all of your concern ermit having determined that the permit should be bistrict Engineer will send you a proffered permit f	on (LOP), you may accept the LOP and your we as that you accept the permit in its entirety, and risdictional determinations (JD) associated with P) because of certain terms and conditions ther on II of this form and return the form to the New ict Engineer within 60 days of the date of this r your letter, the New York District Engineer will s, (b) modify the permit to address some of you issued as previously written. After evaluating for your reconsideration, as indicated in Section	ork is authorized. Your signature on waive all rights to appeal the permit, h the permit. ein, you may request that the permit w York District Engineer. Your notice, or you will forfeit your right I evaluate your objections and may: or objections, or (c) not modify the
•ACC an th in •APP ap se	ROFFERED PERMIT: You may accept or appeal CEPT: If you received a Standard Permit, you may athorization. If you received a Letter of Permission the Standard Permit or acceptance of the LOP mean cluding its terms and conditions, and approved jun EAL: If you choose to decline the proffered perm opeal the declined permit under the Corps of Engir inding the form to the North Atlantic Division Eng eneral Lee Avenue, Brooklyn, NY 11252-6700. This notice.	r sign the permit document and return it to the N n (LOP), you may accept the LOP and your wo s that you accept the permit in its entirety, and risdictional determinations associated with the p it (Standard or LOP) because of certain terms a peers Administrative Appeal Process by comple- tincer, ATIN: CENAD-FT-O Fort Hamilton N	rk is authorized. Your signature on waive all rights to appeal the permit, permit. nd conditions therein, you may sting Section II of this form and filtery Community, Duilding 200
Milita	ERMIT DENIAL: You may appeal the denial of a leting Section II of this form and sending the form ry Community, Building 301, General Lee Avenu eer within 60 days of the date of this notice.	TO IDE North Atlantic Division Engineer A TON	
D: A	PPROVED JURISDICTIONAL DETERMINATION	DN: You may accept or appeal the approved Л) or provide new information.
•ACC	EPT: You do not need to notify the Corps to acce tice, means that you accept the approved JD in its	of an approved ID Failure to notify the Com-	
	EAL: If you disagree with the approved JD, you re- pocess by completing Section II of this form and sec lantic Division Engineer within 60 days of the date	nding the torm to the division engineer. This f	

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appeallant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:	If you only have questions regarding the appeal process you
-	may also contact:
Richard L. Tomer	Michael G. Vissichelli, Regulatory Appeals Review Officer
U.S. Army Corps of Engineers, New York District	When all vissionent, Regulatory Appeals Review Officer
	North Atlantic Division, U.S. Army Engineer Division
Jacob K. Javits Federal Building	Fort Hamilton Military Community
New York, NY 10278-0090	General Lee Avenue, Building 301
(917) 790-8510	Brooklyn, NY 11252-6700
	(718) 765-7150
	E-mail: Michael.G.Vissichelli@usace.army.mil

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	Date:	Telephone number:
Signature of appellant or agent.		

Appendix J

Stormwater Management Report 11 Lot Cluster Plan

KURY HOMES

1

MOUNTAINVIEW AVENUE TOWN OF CLARKSTOWN ROCKLAND COUNTY NEW YORK

PRELIMINARY STORM WATER MANAGEMENT REPORT & CONCEPTUAL DETENTION POND DESIGN

BY

ATZL, SCATASSA & ZIGLER ENGINEERS-SURVEYORS-PLANNERS 234 NORTH MAIN STREET NEW CITY, NEW YORK TEL (845)634-14694

> DATE OF REPORT JUNE 29, 2009

Surface layers: 0 to 4 inches, dark brown silt loam.

Subsoil: 4 to 10 inches, strong brown silt loam and 10 to 16 inches, reddish brown silt loam.

Permeability: moderate throughout.

Depth to water table: more than 6 feet.

Depth to bedrock: 10 to 20 inches.

DRAINAGE STUDY:

We have prepared the attached Hydrological – Hydraulics analysis for the developed areas in the WS#1 and WS#2. The site will be subdivided into 11 lots. Lots 1 & 13 will be used for drainage purposes. The runoffs from lots 2 through 12 will be drained in to the proposed detention pond. The proposed outlet structure drains into the existing wetland. The proposed permanent pool is six feet deep which provide 100% of the water quality (0.29 ac-ft). The volume of the proposed pond above the permanent pool is 1.06 ac-ft. which exceed the combination of CPv and 100-year storages(0.36 + 0.61=0.97 ac-ft). In addition, the existing wetland provides a live storage of over 4 ac-ft at elevation of 420. See subdivision maps for details.

As the result of developing the site, the runoff from the developed area will be increased due to the proposed impervious areas. The 100-year peak runoff storm from the combined watersheds WS#1 WS#2 (Site) will increase from 42.36 CFS to 49.50 CFS. It is required a 0.39 acs-ft to attenuate the peak runoffs.

Preliminary calculations are attached for your reference.

Very truly yours

126 phrv. di, ph D, PE

Ray Ahmadi, Ph.D., P.E.

C:Hydrology TR-55\2760\DRAINAGE STUDY

INTRODUCTION:

The following drainage study has been prepared for Kury Homes in order to provide a zero net increase of peak runoff for a proposed 13-lot realty subdivisions in the town of Clarkstown, New York. The project is located on the easterly side of Mountain Avenue 400 feet south of Sierra Vista Road. The property in question consists of 10.3 acres as shown on a subdivision plat prepared by Atzl, Scatassa & Zigler P.C. dated June 22, 2009.

HYDROLOGICAL SOIL GROUP:

The soils at the site are "Holyoke" with soil map symbols of HoC & HoD and Hydrological Soil Group of "C/D". Upland areas belong to group of "C" and wetland areas belong to group of "D". See sheet 29 of Soil Survey of Rockland County, New York, United States Department of Agriculture Soil Conservation Service, in cooperation with Cornell University Agricultural Experiment Station dated October 1990.

HoC Holyoke-Rock outcrop complex, rolling. This unit is on bedrock-controlled uplands. It consists of shallow, well drained or somewhat excessively drained Holyoke soils and areas of exposed bedrock that commonly appear as ledge. The unit consists of about 60 percent Holyoke soils. The Holyoke soils and rock outcrop are in such an intricate pattern that it was not practical to map them separately. The areas of the unit are irregular in shape and range from 10 to 100 acres. Slope ranges from 3 to 15 percent. The typical sequence, depth, and composition of the layers of the Holyoke soils are as follows:

Surface layers: 0 to 4 inches, dark brown silt loam.

Subsoil: 4 to 10 inches, strong brown silt loam and 10 to 16 inches, reddish brown silt loam.

Permeability: moderate throughout.

Depth to water table: more than 6 feet.

Depth to bedrock: 10 to 20 inches.

HoD Holyoke-Rock outcrop complex, hilly. This unit is on ridges and side slopes on bedrock-controlled uplands. It consists of shallow, well drained or somewhat excessively drained Holyoke soils and areas of exposed bedrock that commonly appear as ledges. The unit consists of about 55 percent Holyoke soils, 20 percent rock outcrop, and 25 percent other soils. The Holyoke soils and rock outcrop are in such an intricate pattern that it was not practical to map them separately. The areas of the unit are irregularly in shape and range from 10 to 150 acres. Slopes range from 15 to 25 percent. The typical sequence, depth, and composition of the layers of the Holyoke soils are as follows:

WinTR-55 Current Data Description

--- Identification Data ---

User:RADate:2009-06-29Project:Kury Homes (Project #2760)Units:EnglishSubTitle:Existing ConditionAreal Units:AcresState:New YorkCounty:RocklandFilename:P:\hydrology TR-55\2760\Drainage 6-25-2009\WS\Existing Condition.w55

--- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Тс
WS#!	WS east of Mountainview	Outlet	0.86	75	.1
WS#2	Up Hill Area	Outlet	8.57	75	.149

Total area: 9.43 (ac)

RA

--- Storm Data --

Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	l-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
3.5	4.5	5.0	6.0	7.0	7.5	2.7

Storm Data Source:	Rockland County, NY (NRCS)
Rainfall Distribution Type:	Type III
Dimensionless Unit Hydrograph:	<standard></standard>

Kury Homes (Project #2760) Existing Condition Rockland County, New York

Hydrograph Peak/Peak Time Table

	• • •	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr	l-Yr (cfs)
SUBAREAS WS#!	1.15 12.12					4.02 12.11	
WS#2	10.78 12.14					38.38 12.13	
REACHES							
OUTLET	11.88	18.99	22.73	30.45	38.33	42.36	6.74
WinTR-55,	Version 1.0	80.00	Page	1		2009-0	6-29 10:31:14

Kury Homes (Project #2760) Existing Condition Rockland County, New York

Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
WS#2	.86 8.57		75 75	Outlet Outlet	WS east of Mountainview Up Hill Area

Total Area: 9.43 (ac)

RA

RA

1

RA

Kury Homes (Project #2760) Existing Condition Rockland County, New York

Sub-Area Identifier/		Slope	Mannings's n		Wetted Perimeter (ft)	Velocity	
ws#!							
SHEET SHALLOW	100 150	0.0600 0.2000	0.130 0.050				0.090 0.006
SHALLOW CHANNEL	60 140	0.1000 0.0786	0.050	19.63	15.70	38.889	0.003
	110	0.0700	0.010				0.001
				Ti	me of Conce	ntration	.1
WS#2							
SHEET	100	0.0350	0.130				0.111
SHALLOW	700	0.1336	0.050				0.033
SHALLOW	80	0.1000	0.050				0.004
CHANNEL	140	0.0786	0.015	19.63	15.70	38.889	0.001
				Ti	me of Conce	ntration	.149

Sub-Area Time of Concentration Details

Kury Homes (Project #2760) Existing Condition Rockland County, New York

Sub-Area Land Use and Curve Number Details

Sub-Area			Hydrologic	Sub-Area	Curve
WinTR-55, Version 1.00.08	Page	2		2009-06-29	10:31:14

(2

Identif	Ler Land Use		Soil Group	Area (ac)	Number
WS#!		(fair) (fair)	C C D	.09 .75 .02	89 73 79
	Total Area / Weighted Curve Number			.86	75 ==
WS#2		(fair) (fair)	C C C D	.1 .54 7.4 .53	98 89 73 79
	Total Area / Weighted Curve Number			8.57 ====	75 ==

WinTR-55, Version 1.00.08

1

Page 3

2009-06-29 10:31:14



WinTR-55 Current Data Description

÷

--- Identification Data ---

User:RADate:2009-06-29Project:Kury Homes (Project #2760)Units:EnglishSubTitle:Developed ConditionAreal Units:AcresState:New YorkCounty:RocklandFilename:P:\hydrology TR-55\2760\Drainage 6-25-2009\WS\Developed Condition.w55

--- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Тс
 WS#! WS#2	WS east of Mountainview Up Hill Area	Outlet Outlet	0.86 8.57	79 81	.1 0.1

Total area: 9.43 (ac)

RA

--- Storm Data --

Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
3.5	4.5	5.0	6.0	7.0	7.5	2.7

Storm Data Source:	Rockland County, NY (NRCS)
Rainfall Distribution Type:	Type III
Dimensionless Unit Hydrograph:	<standard></standard>

Kury Homes (Project #2760) Developed Condition Rockland County, New York

Hydrograph Peak/Peak Time Table

		5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)		100-Yr (cfs)	l-Yr (cfs)
SUBAREAS							
WS#!	1.39 12.12				3.98 12.11		0.86 12.12
WS#2	15.16						
	12.11	12.11	12.11	12.11	12.11	12.11	12.12
REACHES							
OUTLET	16.55	24.57	28.68	36.98	45.32	49.50	10.47
WinTR-55,	Version 1.	00.08	Page	1		2009-0	6-29 10:39:21

Kury Homes (Project #2760) Developed Condition Rockland County, New York

Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
WS#!	.86		79	Outlet	WS east of Mountainview
WS#2	8.57		81	Outlet	Up Hill Area

Total Area: 9.43 (ac)

RA

RA

Т

RA

Kury Homes (Project #2760) Developed Condition Rockland County, New York

Sub-Area Identifier/	Length	Slope	Mannings's n		Wetted Perimeter (ft)	-	
WS#!							
SHEET	100	0.0600	0.130				0.090
SHALLOW	150	0.2000	0.050				0.006
SHALLOW	60	0.1000	0.050				0.003
CHANNEL	140	0.0786	0.015	19.63	15.70	38.889	0.001
							_
				Ti	me of Conce	ntration	.1
						=	==========
WS#2							
SHEET	35	0.0143	0.130				0.069
SHALLOW	168	0.1250	0.050				0.008
CHANNEL	560	0.1010	0.012	3.14	6.28	25.926	0.006
CHANNEL	280	0.0786	0.015	19.63	15.70	38.889	0.002
				Ti	me of Conce	ntration	0.1
						=	=======

Sub-Area Time of Concentration Details

Kury Homes (Project #2760) Developed Condition Rockland County, New York

Sub-Area Land Use and Curve Number Details

Sub-Area			Hydrologic	Sub-Area	Curve
WinTR-55, Version 1.00.08	Page	2		2009-06-29	10:39:21

5

Identifie	er Land Use		Soil Group	Area (ac)	Number
WS#!	Open space; grass cover > 75% Paved parking lots, roofs, driveways Woods Woods	(good) (fair) (fair)	C C C D	.12 .18 .54 .02	74 98 73 79
	Total Area / Weighted Curve Number			.86	79 ==
WS#2	Open space; grass cover > 75% Paved parking lots, roofs, driveways Woods Woods	(good) (fair) (fair)	С С С О	4.74 2.28 1.02 .53	74 98 73 79
	Total Area / Weighted Curve Number			8.57 ====	81 ==

WinTR-55, Version 1.00.08 Page 3

2009-06-29 10:39:21



Area or	Drainage	Rain Gage	Runoff		Peak	Flow	
Reach Identifier	Area (sq mi)	ID or Location	Amount (in)	Elevation (ft)	Time (hr)	Rate (cfs)	Rate (csm)
Wetland	0.074	Downstream	5.294	414.39	12.26	187.82	2526.42

Kury Subdivision (Project #2760) Existing Over All Watershed

Area or	Drainage			- Peak H	Flow by Storm		
Reach	Area	Alternate	1-yr	2-yr	5-yr	10-yr	25-yr
Identifie	r (sq mi)		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
WS#1	0.134E-02		0.7	1.2	1.8	2.2	2.9
WS#2	0.01		6.1	10.8	17.2	20.6	27.6
WS#3	0.06		38.1	59.1	86.7	100.7	129.0
Wetland	0.07		43.9	69.2	103.0	120.2	155.2
DOWNSTREAM	M		43.9	69.2	103.0	119.7	152.5
OUTLET	0.07		43.9	69.2	103.0	119.7	152.5
Area or	Drainage			Peak l	Flow by Storm		
Reach	Area	Alternate	50-yr	100-yr			
Identifie	r (sqmi)		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
ws#1	0.134E-02		3.7	4.0			
WS#2	0.01		34.8	38.4			
WS#3	0.06		157.4	171.6			
Wetland	0.07		190.5	208.2			
DOWNSTREAL	м		179.3	187.8			
OUTLET	0.07		179.3	187.8			

- 1

Area or	Drainage	Rain Gage	Runoff		Peak	Flow	
Reach Identifier	Area (sq mi)	ID or Location	Amount (in)	Elevation (ft)	Time (hr)	Rate (cfs)	Rate (csm)
Wetland	0.074	Downstream	5.422	414.43	12.25	188.76	2538.96

Kury Subdivision (Project #2760) Developed Over All Watershed

Area or	Drainage			Peak Fl	ow by Storn	n	
Reach	Area	Alternate	1-yr	2-yr	5-yr	10-yr	25-yr
Identifier	(sq mi)		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
WS#1 0	.134E-02		0.9	1.4	2.1	2.5	3.2
WS#2	0.01		9.6	15.2	22.5	26.2	33.8
WS#3	0.06		38.1	59.1	86.7	100.7	129.0
Wetland	0.07		45.4	71.0	104.6	121.8	156.6
DOWNSTREAM			45.4	71.0	104.6	121.1	153.3
Pond	0.01		10.5	16.6	24.6	28.7	37.0
DOWNSTREAM			10.5	16.5	24.6	28.7	37.0
OUTLET	0.07		45.4	71.0	104.6	121.1	153.3
Area or	Drainage			Peak Fl	ow by Stor	m	
Reach	Area	Alternate	50-yr	100-yr			
Identifier	(sq mi)		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
WS#1 0	.134E-02		4.0	4.4			
WS#2	0.01		41.3	45.1			
WS#3	0.06		157.4	171.6			
Wetland	0.07		191.6	209.0			
DOWNSTREAM			179.9	188.8			
Pond	0.01		45.3	49.5			
DOWNSTREAM			45.3	49.5			
OUTLET	0.07		179.9	188.8			

E)

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WinTR-55 Current Data Description

--- Identification Data ---

User: RA Date: 2009-06-29 Project: Kury Homes (Project #2760) Units: English SubTitle: Over All Existing Condition Areal Units: Acres State: New York County: Rockland Filename: P:\hydrology TR-55\2760\Drainage 6-25-2009\WS\Overall Existing Condition.w55

--- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Тс
WS#2 WS#3	WS east of Mountainview Up Hill Area Condo's	Outlet Outlet Outlet	0.86 8.57 38.15	75 75 83	.1 .149 .285

Total area: 47.58 (ac)

--- Storm Data --

Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
3.5	4.5	5.0	6.0	7.0	7.5	2.7

Storm Data Source:Rockland County, NY (NRCS)Rainfall Distribution Type:Type IIIDimensionless Unit Hydrograph:<standard>

RA

Kury Homes (Project #2760) Over All Existing Condition Rockland County, New York

Hydrograph Peak/Peak Time Table

	(hr)		10-Yr (cfs) (hr)	25-Yr (cfs) (hr)	50-Yr (cfs) (hr)	100-Yr (cfs) (hr)	1-Yr
SUBAREAS WS#!	1.15	1.82 12.11	2.17	2.90	3.65	4.02	
WS#2		17.21 12.14					
WS#3		86.67 12.21					

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REACHES

OUTLET 69.24 102.97 120.20 155.23 190.51 208.17 43.87

RA

Kury Homes (Project #2760) Over All Existing Condition Rockland County, New York

Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
 WS#! WS#2 WS#3	.86 8.57 38.15	0.100 0.149 0.285	75 75 83	Outlet Outlet Outlet	WS east of Mountainview Up Hill Area Condo's

Total Area: 47.58 (ac)

RA

Kury Homes (Project #2760) Over All Existing Condition Rockland County, New York

Sub-Area Time of Concentration Details

Sub-Area Identifier/				Area	Wetted Perimeter (ft)	Velocity	
WS#!							
SHEET	100	0.0600	0.130				0.090
SHALLOW	150	0.2000	0.050				0.006
SHALLOW		0.1000	0.050				0.003
CHANNEL	140	0.0786	0.015	19.63	15.70	38.889	0.001
				Ti	me of Conce	ntration	.1
							======
WS#2							
SHEET	100	0.0350	0.130				0.111
SHALLOW	700	0.1336					0.033
SHALLOW	80	0.1000					0.004
CHANNEL	140	0.0786	0.015	19.63	15.70	38.889	0.001
				Тi	me of Conce	ntration	.149
WS#3							
SHEET	100	0.0550	0.400				0.228
SHALLOW	245	0.0615					0.017
SHALLOW	335	0.1493					0.015
CHANNEL	800	0.0700	0.015	3.14	6.28	17.094	
CHANNEL	590	0.0542	0.030	26.70	20.00	13.657	0.012
				Ti	ime of Conce	ntration	.285
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Kury Homes (Project #2760) Over All Existing Condition Rockland County, New York

Sub-Area Land Use and Curve Number Details

Sub-Area Identifie			Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
WS#!	Gravel (w/ right-of-way) Woods Woods	(fair) (fair)		.09 .75 .02	89 73 79
	Total Area / Weighted Curve Nu	mber		.86	75 ==
WS#2	Paved parking lots, roofs, dri Gravel (w/ right-of-way) Woods Woods	veways (fair) (fair)		.1 .54 7.4 .53	98 89 73 79
	Total Area / Weighted Curve Nu	mber		8.57 ====	75 ==
WS#3	Paved parking lots, roofs, dri Woods Woods	veways (fair) (fair)		15.19 22.45 .51	98 73 79
	Total Area / Weighted Curve Nu	mber		38.15	83 ==

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WinTR-55 Current Data Description

--- Identification Data ---

User: RA Date: 2009-06-29 Project: Kury Homes (Project #2760) Units: English SubTitle: Over All WS, Developed Condition Areal Units: Acres State: New York County: Rockland Filename: P:\hydrology TR-55\2760\Drainage 6-25-2009\WS\Over All Developed Condition.w55

--- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Тс
WS#! WS#2	WS east of Mountainview Up Hill Area	Outlet Outlet	0.86 8.57	79 81	.1
WS#2 WS#3	Condos	Outlet	38.15	83	.285

Total area: 47.58 (ac)

--- Storm Data --

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	1-Yr (in)
3.5	4.5	5.0	6.0	7.0	7.5	2.7
Storm Data S	Source:		kland County,	, NY (NRCS)		

Rainfall Distribution Type: Type III Dimensionless Unit Hydrograph: <standard>

RA

I

Kury Homes (Project #2760) Over All WS, Developed Condition Rockland County, New York

Hydrograph Peak/Peak Time Table

	2-Yr (cfs)	Flow and H 5-Yr (cfs) (hr)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)	l-Yr (cfs) (hr)
SUBAREAS WS#!		2.11 12.11					
WS#2		22.47 12.11					
WS#3		86.67 12.21					38.12 12.22

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2009-06-29 10:41:00

REACHES

OUTLET 70.79 104.34 121.45 156.15 190.89 208.24 45.31

RA

Kury Homes (Project #2760) Over All WS, Developed Condition Rockland County, New York

Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
WS#2 WS#3	.86 8.57 38.15	0.100 0.100 0.285	79 81 83	Outlet Outlet Outlet	WS east of Mountainview Up Hill Area Condos

Total Area: 47.58 (ac)

RA

Kury Homes (Project #2760) Over All WS, Developed Condition Rockland County, New York

Sub-Area Time of Concentration Details

Sub-Area Identifier/	Length	Slope	Mannings's n	Area	Perimeter	Velocity	
WS#!							
SHEET	100	0.0600	0.130				0.090
SHALLOW		0.2000					0.006
SHALLOW	60		0.050				0.003
CHANNEL	140	0.0786	0.015	19.63	15.70	38.889	0.001
				Ti	me of Conce	ntration	.1
						=	=======
WS#2							
SHEET	35	0.0143	0.130				0.069
SHALLOW	168	0.1250	0.050				0.008
CHANNEL	560	0.1010	0.012	3.14	6.28	25,926	0.006
CHANNEL	280	0.0786	0.015	19.63	15.70	38.889	0.002
				Ті	ime of Conce	ntration	0.1
						=	======
WS#3							
SHEET	100	0.0550	0.400				0.228
SHALLOW	245	0.0615	0.050				0.017
SHALLOW	335	0.1493	0.050				0.015
CHANNEL	800	0.0700			6.28	17.094	0.013
CHANNEL	590	0.0542	0.030	26.70	20.00	13.657	0.012
				Ti	ime of Conce	ntration	.285
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Kury Homes (Project #2760) Over All WS, Developed Condition Rockland County, New York

Sub-Area Land Use and Curve Number Details

Sub-Area Identifie		Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
WS#!	Open space; grass cover > 75% (good	l) C	.12	 74
	Paved parking lots, roofs, driveways	С	.18	98
	Woods (fair	:) C	.54	73
	Woods (fair	.) D	.02	79
	Total Area / Weighted Curve Number		.86	79
			===	==
WS#2	Open space; grass cover > 75% (good	l) C	4.74	74
	Paved parking lots, roofs, driveways	С	2.28	98
	Woods (fair	c) C	1.02	73
	Woods (fair	.) D	.53	79
	Total Area / Weighted Curve Number		8.57	81
	-		====	==
WS#3	Paved parking lots, roofs, driveways	С	15.19	98
	Woods (fair	c) C	22.45	73
	Woods (fai)	c) D	.51	79
	Total Area / Weighted Curve Number		38.15	83
			=====	==

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Appendix K

Traffic Analysis

Traffic Study

KURY HOMES

TOWN OF CLARKSTOWN ROCKLAND COUNTY, NEW YORK

Prepared for:

Kury Homes, Inc. 495 South Main Street New City, NY 10956

Prepared by:

Tim Miller Associates, Inc. 10 North Street Cold Spring, NY 10516 (845) 265-4400

June 16, 2009

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1.0 EXECUTIVE SUMMARY

1.1 Introduction

This traffic report has been prepared to assess the effect of potential traffic generated by the proposed Kury Homes residential development located on the east side of Mountainview Avenue, Town of Clarkstown, Rockland County, New York. The site has one proposed access point onto Mountainview Avenue, located north of Forest Ridge Road and south of Sierra Vista Lane. The site location is shown on Figure 1 (all figures are provided after page 10).

1.2 Objective and Methodology of Study

The methodology used to prepare this study is as follows:

- 1. Existing peak hour (2008) traffic volumes were collected at the following intersection for the weekday a.m. and weekday p.m. peak hour periods:
 - Mountainview Avenue and Forest Ridge Road
- 2. The future 2011 No Build condition was established using an annual regional growth traffic rate of two percent per year over a period of three years.
- 3. Trip generation rates for the proposed Kury Homes site are based upon data contained in the Institute of Transportation Engineers' (ITE) <u>Trip Generation</u>, 2008.
- 4. The levels of service at the above intersection was evaluated using the Transportation Research Board's <u>Highway Capacity Manual</u>¹ methodology. The 2008 Existing, 2011 Future No Build Condition (future without the project), and 2011 Build Condition (future with the project).
- 5. No Build Condition (future without the project), and Build Condition (future with the project) evaluations show the change in traffic operations that are a result of traffic generated by the proposed Kury Homes project.

1.3 Findings

The applicant proposes to construct 11 single family homes. The project site is currently vacant. The proposed action is projected to generate up to 17 trips during the a.m. peak hour and 11 trips during the p.m. peak hour.

Peak hour delays were calculated to establish the quality of operation (level of service) of the intersections studied under the Existing Condition, the No-Build Condition and the Build Condition. Level of service is graded on a scale of A (best) to F (worst).

A review of the traffic network in proximity to the site indicates the morning peak hour for the intersection studied occurs between 7:30 a.m. and 8:30 a.m. The afternoon peak hour for traffic traveling on Mountainview Avenue occurs between 5:00 p.m. and 6:00 p.m.

¹ <u>Highway Capacity Manual</u>, National Academy of Sciences, Transportation Research Board, National Research Council, Washington, DC, 2000.

¹

2.0 TRAFFIC AND TRANSPORTATION

2.1 Roadway Network

As described, the project site is located on the east side of Mountainview Avenue. The site has one proposed access point onto Mountainview Avenue, located north of Forest Ridge Road and south of Sierra Vista Lane. The project site is currently vacant, three existing houses have been removed. The project site location is shown in Figure 1.

<u>Mountainview Avenue</u> - is a two lane Town roadway with a single lane of traffic in each direction. Mountainview Avenue could be classified as a collector road providing residential access as it travels in a north-south connecting NYS Route 59 to the south with . Mountainview Avenue provides eastbound access to Exit 11 of the NYS Thruway, Interstate 87/287. The posted speed limit on Mountainview Avenue in the vicinity of the proposed site access is 30 miles per hour.

<u>Forest Ridge Road</u> - is a two lane private road which provides residential access to the Forest Ridge Condominium complex, south of the proposed project.

<u>Sierra Vista Lane</u> - is a two lane private road which provides residential access to the Mountainview Condominium complex, north of the proposed project.

<u>NYS Thruway</u> - The NYS Thruway I-87/287 is a six-lane limited access divided highway. Interstate 287 provides regional east-west access crossing southern Westchester County from the Tappan Zee Bridge to Interstate 95 (the New England Thruway). Interstate 87 provides regional north-south access crossing from New York City to Albany. The annual average daily traffic volumes (AADT) for Interstate 87/287 in the vicinity of the project site is 136,759 vehicles per day, (Source: <u>NYS DOT Traffic Data Viewer</u>). The posted speed limit on Interstate 87/287 in the vicinity of Exit 11 is 55 miles per hour.

Kury Homes Traffic Study

3.0 EXISTING TRAFFIC CONDITIONS

3.1 Existing Peak Hour Volumes

Manual turning movement counts were taken on Wednesday, August 7, 2008 from 6:30 a.m. to 9:30 a.m. and on Wednesday, August 13, 2008 from 4:00 p.m. to 7:00 p.m. Existing peak hour turning movement volumes are shown on Figures 2 and 3 respectively for the intersection noted below:

• Mountainview Avenue and Forest Ridge Road

The manual turning movement counts establish the 2008 existing traffic volumes. The existing data forms the basis of the 2011 No Build Condition (the scenario without the proposed action) and the 2011 Build Condition (conditions with the proposed action).

The counts identify the weekday morning and afternoon peak hour periods. The morning peak hour for the intersection studied occurs between 7:30 a.m. and 8:30 a.m. The afternoon peak hour for the intersection studied occurs between 5:00 p.m. and 6:00 p.m. The peak hours are influenced predominantly by commuter traffic along Mountainview Avenue.

Traffic analyses conducted for these intersections is based on traffic flow rates for the highest fifteen minute volumes in the peak hours as is standard practice.

3.2 Level of Service Criteria

The <u>Highway Capacity Manual</u> and the *Highway Capacity Software* procedures document the methodology used for modeling levels of service, average vehicle delay, and volume to capacity ratios at unsignalized intersections. Level of service is a measure of the operational quality of an intersection. Level of service A is the highest, most efficient level, and level of service F is the lowest level. The operational quality of an intersection is based on the average amount of time a vehicle is delayed. Levels of service are examined by lane group, i.e. the set of lanes allowing the same movements on an approach.

Table 1 presents the Unsignalized Intersections Level of Service Criteria.

Table 1 Unsignalized Intersections - Level of Service Criteria				
Average Control Delay (Seconds Per Vehicle)				
less than or equal to 10				
greater than 10 and less than or equal to 15				
greater than 15 and less than or equal to 25				
greater than 25 and less than or equal to 35				
greater than 35 and less than or equal to 50				
greater than 50				
Source: <u>Highway Capacity Manual</u> , National Academy of Sciences, Transportation Research Board, National Research Council, Washington, DC, 2000.				

The *Highway Capacity Software* model results apply to peak hour periods only and do not represent every minute of traffic operations. During off peak periods, which is the majority of the time, drivers typically will find operations better than the modeled peak hour results. During peak periods the experience of individual drivers can vary, because the model calculates average vehicle delay.

Peak 15 minute traffic flows typically do not all occur in the same 15 minute period in the peak hour. The traffic model does not always account for the ability of the traffic signal to compensate for shifting traffic volumes and thus may overestimate delay. For unsignalized intersections, the model conservatively assumes peak approach volumes occur simultaneously.

3.3 Existing Levels of Service

The study intersections were evaluated for existing levels of service. The results of the level of service analyses are summarized in Table 2. Capacity analysis calculations for Existing, No-Build, and Build conditions are provided as Appendix A of this report.

Table 2 shows that all of the lane groups for the movements studied operate at levels of service B or better during both the a.m. and p.m. peak hours. There is a high southbound volume along Mountainview Avenue during the a.m. peak hour as a result of access to eastbound I-287, however average delay from the minor street is still less than 15 seconds per vehicle or level of service B.

Table 2 Existing Condition Level of Service Summary										
		A.M. We	ekday Pea	k Hour	P.M. We	ekday Peak	(Hour			
Intersection RoadLane Group (Approach Direction - Movement)Volume/ Capacity RatioDelay (seconds)Level of Volume/ (seconds)Volume/ Delay of ServiceDelay Capacity RatioLevel of Service										
Mountainview Avenue	at Forest Ridg	e Road - U	nsignalized	1						
Mountainview Avenue	SB - L, T	0.00	7.4	A	0.00	7.8	А			
Forest Ridge Road	WB - L, R	0.06	11.0	В	0.02	10.8	В			
Level of Service (see Table 1 for level of service criteria). NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound. Source: Tim Miller Associates, 2009.										

4.0 SIGHT DISTANCE

Sight Distance

Stopping sight distance is the distance a vehicle would require to be able to stop on wet pavement to avoid a collision with a vehicle entering the traffic stream. Intersection sight distance provides an additional margin of safety above stopping sight distance.

The New York State Department of Transportation (NYS DOT) *Policy and Standards for the Design of Entrances to State Highways* (November 24, 2003) discusses both stopping and intersections sight distance. "Driveways should be located where the stopping sight distance meets or exceeds the values in American Association of State Highway and Transportation Officials' (AASHTO) latest (2004) *A Policy on Geometric Design of Highways and Streets.*" Where stopping sight distance is nonstandard mitigation need to be "considered".

The NYS DOT policies and standards note that intersection sight distance from *A Policy on Geometric Design of Highways and Streets* should also be met or exceeded where possible, although "Lower sight distances may be used if the Regional Traffic Engineer determines that they will not significantly degrade traffic safety and operations and there is no reasonable alternative."

A Policy on Geometric Design of Highways and Streets states "The provision of stopping sight distance at all locations along the highway or street, including intersection approaches is fundamental to intersection operation." As stopping sight distance may require major street traffic to stop or slow for minor road vehicles it also states "To enhance traffic operations, intersection sight distances that exceed stopping sight distances are desirable along the major road."

Intersection sight distance is defined as the sight distance that is necessary for a vehicle to safely enter the traffic stream requiring only minor speed adjustments by vehicles in the traffic stream. Table 3 shows the Stopping and Intersection Sight Distances recommended by the American Association of State Highway and Transportation Officials (AASHTO).

Table 3 Sight Distance								
Speed (in miles/hour)	Stopping Sight Distance	Intersection Sight Distance						
30	200 Feet	335 Feet						
35	250 Feet	390 Feet						
40	305 Feet	445 Feet						
45	360 Feet	500 Feet						
50	425 Feet	555 Feet						
<u>A Policy on Geometric Design of Highways and Streets</u> , American Association of State Highway and Transportation Officials, 5th ed., 2004.								

The proposed Kury Homes project will have one access onto Mountainview Avenue, as shown on the proposed site plan. As shown on the site plan, the available sight distances of the 11 lot Cluster Alternative are 700 feet looking to the north and 500 feet looking to the south.

Prevailing Speed

A prevailing speed study was conducted on Mountainview Avenue based upon the location of the proposed site access point. The speed limit on Mountainview Avenue is 30 miles per hour. A spot speed study was conducted to ascertain the 85th percentile of vehicle operating speeds on this roadway. The 85th percentile observed speed is the most frequently used measure of operating speeds associated with a location. The speed study was conducted on Mountainview Avenue in the vicinity of the proposed site access.

Speed data were collected under dry pavement conditions between 1 p.m. and 3 p.m. on Wednesday, August 13, 2008. Volumes during this period are typical of free flowing, daylight traffic conditions. A radar gun was utilized to collect speed data. A survey size of 75 vehicles per direction was used to provide a 95 percent confidence level with an estimated error of ± 2 miles per hour. Based on the data collected, the 85th percentile speed for Mountainview Avenue is 36 mph for vehicles traveling northbound and 36 mph for vehicles traveling southbound. A vehicle speed graph is attached. The 85th percentile speed is the speed at which 85 percent of vehicles travel at or below.

Sight Distance at the proposed Site Access Points

For intermediate speed values, other than those listed in Table 8, the intersection sight distance is determined by the following equation from *A Policy on Geometric Design of Highways and Streets*. Intersection sight distance is 1.47 times design speed of the major road times the time gap for minor road vehicle to enter the major road.

1.47 V $_{(major)}$ T $_{g}$ = ISD

ISD = intersection sight distance

V (major) = design speed of major road in mph as 85th percentile equals 36 mph

T $_{g}$ = time gap in seconds based on a passenger car, two-way highway with two lanes, driveway approach grade not exceeding 3% is 7.5 seconds. Passenger cars are the typical vehicles expected using the site driveways.

Thus, 1.47 (36) (7.5) = 396.9 feet is the intersection sight distance required looking south at northbound approaching vehicles with a prevailing speed of 36 miles per hour. For the purpose of analysis the required intersection sight distance is rounded up to 400 feet. As shown on the site plan the available sight distance in this direction is 500 feet from the proposed access point.

Similarly, 1.47 (36) (7.5) = 396.9 feet is the intersection sight distance required looking north at southbound approaching vehicles with a prevailing speed of 36 miles per hour. For the purpose of analysis the required intersection sight distance is rounded up to 400 feet. As shown on the site plan the available sight distance in this direction is 700 feet from the proposed access point.

Based upon these calculations, there is sufficient intersection sight distance in both directions at the proposed site access point to meet the AASHTO recommendations for prevailing operating speeds of vehicles traveling along Mountainview Avenue.

Kury Homes Traffic Study

5.0 FUTURE NO-BUILD TRAFFIC CONDITIONS

5.1 No-Build Traffic: Network and Volumes

The project is expected to be fully occupied by 2011. Typically, a project's traffic impact is assessed by comparing future traffic conditions without the project (the 2011 No-Build Condition) to traffic conditions with project-generated traffic (the 2011 Build Condition).

No-Build traffic conditions are determined based on a number of factors: (1) improvements in the local road network that are planned or underway; (2) traffic from general population growth in the region and, (3) traffic from identified development projects in the project vicinity.

The New York State Department of Transportation (NYS DOT) does not have any major plans for road improvements in this area, thus no adjustments for road improvements were made to the No-Build or Build traffic analysis.

The Planning Departments of the Town of Clarkstown was contacted regarding pending development applications in the project vicinity. There are no other pending projects in this area which would have affect the No-Build or Build traffic analysis.

Peak hour traffic volumes for the a.m. and p.m. No-Build Conditions represent background traffic growth of two percent per year added to existing traffic volumes for a period of three years. No-Build traffic volumes are shown on Figures 4 and 5.

5.2 No-Build Level of Service

Table 4 summarizes the levels of service projected for the No-Build Condition. As shown in Table 4, there is no change anticipated in operating conditions as a result of the growth in the area. All movements remain are level of service B or better under future No-Build Conditions.

Table 4 No-Build Condition Level of Service Summary										
		A.M. We	ekday Pea	k Hour	P.M. We	ekday Peak	(Hour			
Intersection RoadLane Group (Approach Direction - Movement)Volume/ Capacity RatioDelay (seconds)Level of ServiceVolume/ (apacity RatioDelay (seconds)Level of Capacity ServiceVolume/ (seconds/ Capacity RatioDelay (seconds/ ServiceDelay (seconds/ ServiceDelay (seconds/ ServiceDelay (seconds/ ServiceDelay (seconds/ ServiceDelay (seconds/ ServiceDelay (seconds/ ServiceDelay ServiceDelay (seconds/ ServiceDelay (seconds/ ServiceDelay S										
Mountainview Avenue	e at Forest Ridg	e Road - U	nsignalized	1						
Mountainview Avenue	SB - L, T	0.00	7.4	А	0.00	7.8	А			
Forest Ridge Road	WB - L, R	0.07	11.2	В	0.02	11.0	В			
Level of Service (see Table 1 for level of service criteria). NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound. Source: Tim Miller Associates, 2009.										

6.0 FUTURE BUILD TRAFFIC CONDITIONS

6.1 Build Traffic: Network and Volumes

This traffic report has been prepared to assess the effect of potential traffic generated by the proposed Kury Homes residential development located on the east side of Mountainview Avenue, Town of Clarkstown, Rockland County, New York. The project site is currently vacant, the three previous residences have been removed. The site has one proposed access point onto Mountainview Avenue, located north of Forest Ridge Road and south of Sierra Vista Lane. The proposed Site Plan is shown in Figure 6.

Traffic to be generated by 11 single family residential lots was projected using the <u>Trip</u> <u>Generation</u>, Institute of Transportation Engineers (ITE), 8th edition, Washington, DC, 2008. In order to provide a conservative analysis the fitted curve equation rates were used. These rates overstate the trip generation for small single family residential projects. In addition no deduction has been taken for the three existing building lots which could be rebuilt, thus making the traffic analysis even more conservative. The proposed action is projected to generate up to 17 new trips during the a.m. peak hour and 11 new trips during the p.m. peak hour. The entering and exiting trip rates and anticipated trips from the proposed project are shown in Tables 5 and 6.

Table 5 Project Site Trip Rate Summary									
Trip Rate									
Weekday A.M. Weekday P.M. Peak Hour Peak Hour									
INOUTINOUTLand Uses {ITE Code}(Trips/ Unit)(Trips/ Unit)(Trips/ Unit)Unit)									
Single Family Residential 11 units {210} 0.396 1.189 0.649 0.381									
Trip Generation, Institute of Transportation Er	ngineers, 8th	edition, Wa	ashington, D	C, 2008.					

Table 6 Project Site Total Trips Generated								
Site Generated Trips								
	Weekday A.M. Weekday P.M. Peak Hour Peak Hour							
Land Uses IN OUT TOTAL IN OUT TOTAL Trips Trips Trips Trips Trips Trips Trips								
Single Family Residential 11 units {210} 4 13 17 7 4 11								
Trip Generation, Institute of Transportation Eng	gineers, 8	8th editio	n, Washi	ngton, D	C, 2008			

The percentage distribution of the site generated trips is shown in Figure 7; the site generated trips (Figures 8 and 9) were added to the No-Build traffic volumes (Figures 4 and 5) to obtain the Build traffic volumes (Figures 10 and 11).

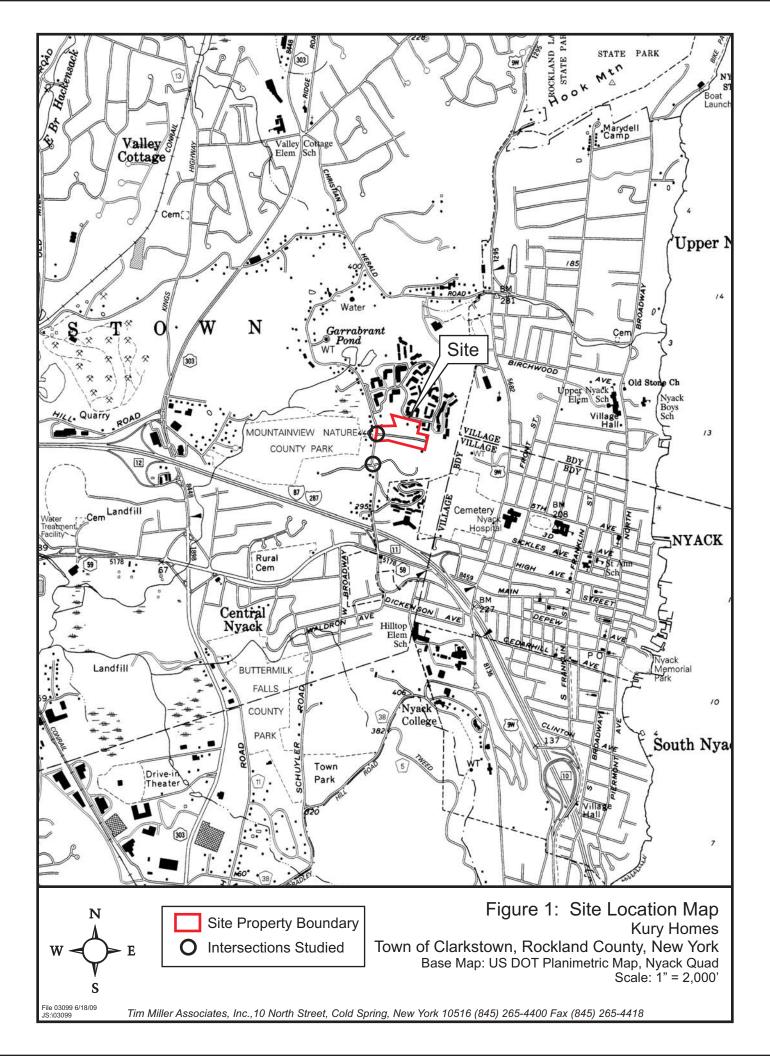
Kury Homes Traffic Study

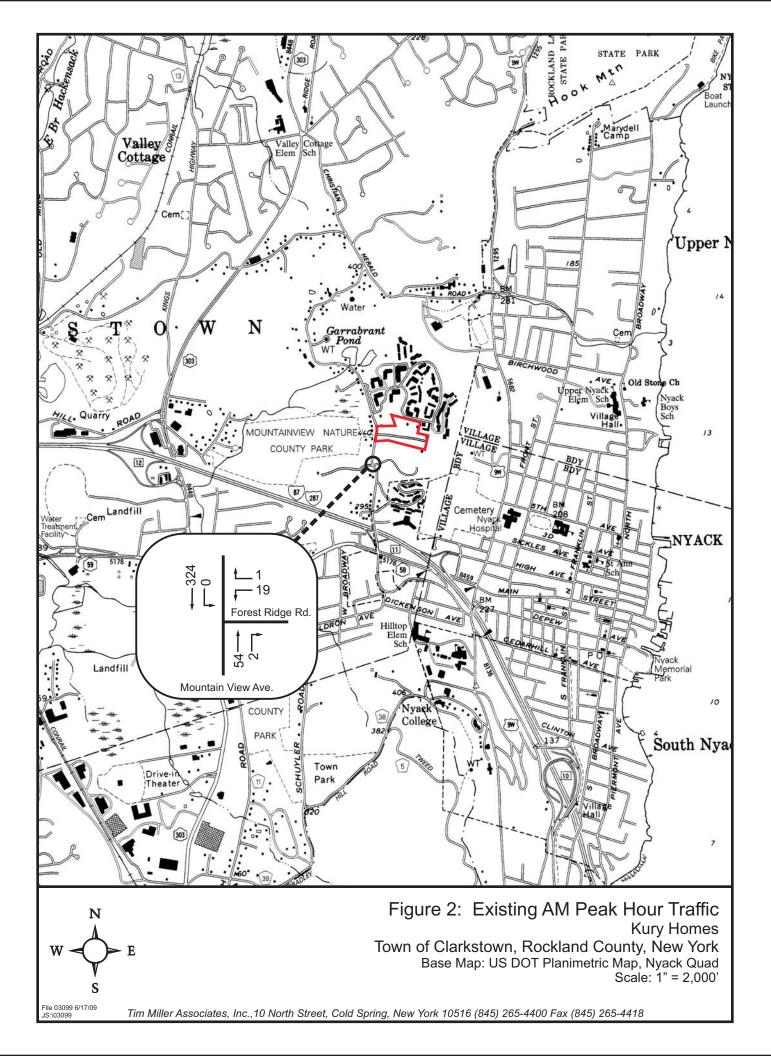
5.2 Build Level of Service

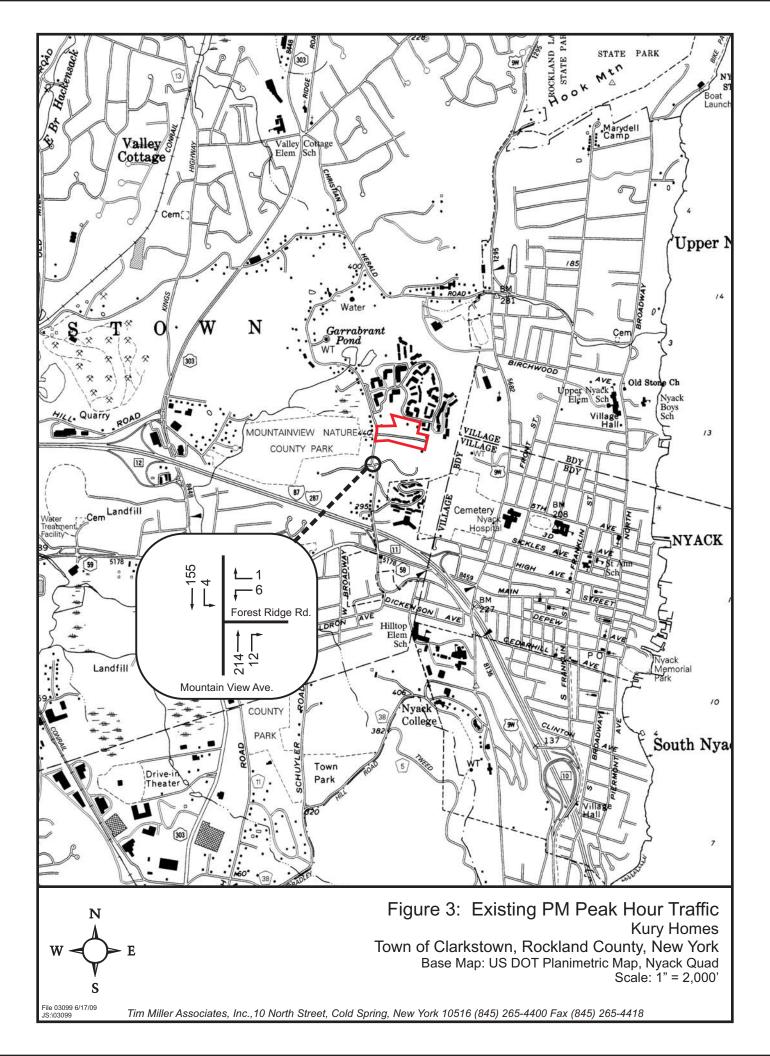
Table 7 summarizes the levels of service projected for the Build Condition. As shown in Table 7, there is no change anticipated in operating conditions as a result of the construction of the 11 homes proposed at Kury Homes. All movements remain are level of service B or better under future Build Conditions. Operating conditions at the Kury Homes Site Access can be expected to be similar to the current conditions at Forest Ridge Road.

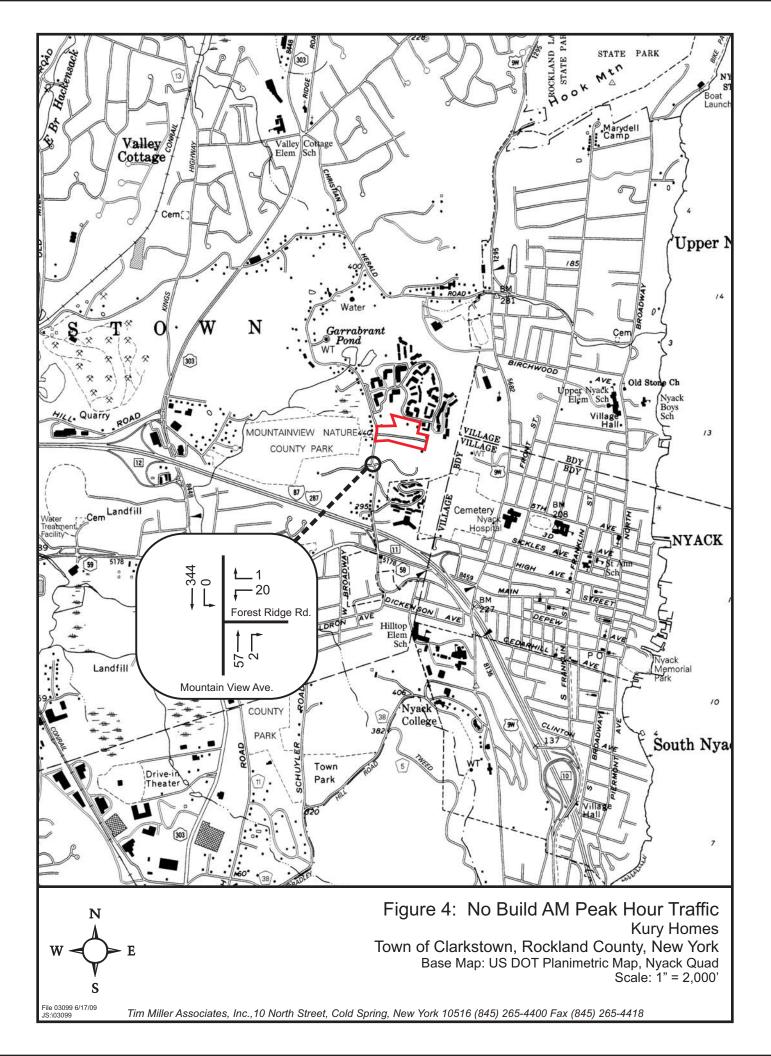
Table 7 Build Condition Level of Service Summary										
			ekday Peal	k Hour	P.M. We	eekday Peal	(Hour			
Intersection Road	Lane Group (Approach Direction - Movement)	Direction - Capacity (Seconds) of Capacity (Seconds)								
Mountainview Avenue at	t Forest Ridge	Road - Un	signalized							
Mountainview Avenue	SB - L, T	0.00	7.4	A	0.00	7.8	Α			
Forest Ridge Road	WB - L, R	0.07	11.3	В	0.02	11.0	В			
Mountainview Avenue at	t Kury Homes	Site Acces	s - Unsigna	alized						
Mountainview Avenue	SB - L, T	0.00	7.3	A	0.00	7.8	A			
Kury Homes Site Access	WB - L, R	0.02	10.2	В	0.01	10.3	В			
Level of Service (see Table 1 for level of service criteria). NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound. Source: Tim Miller Associates, 2009.										

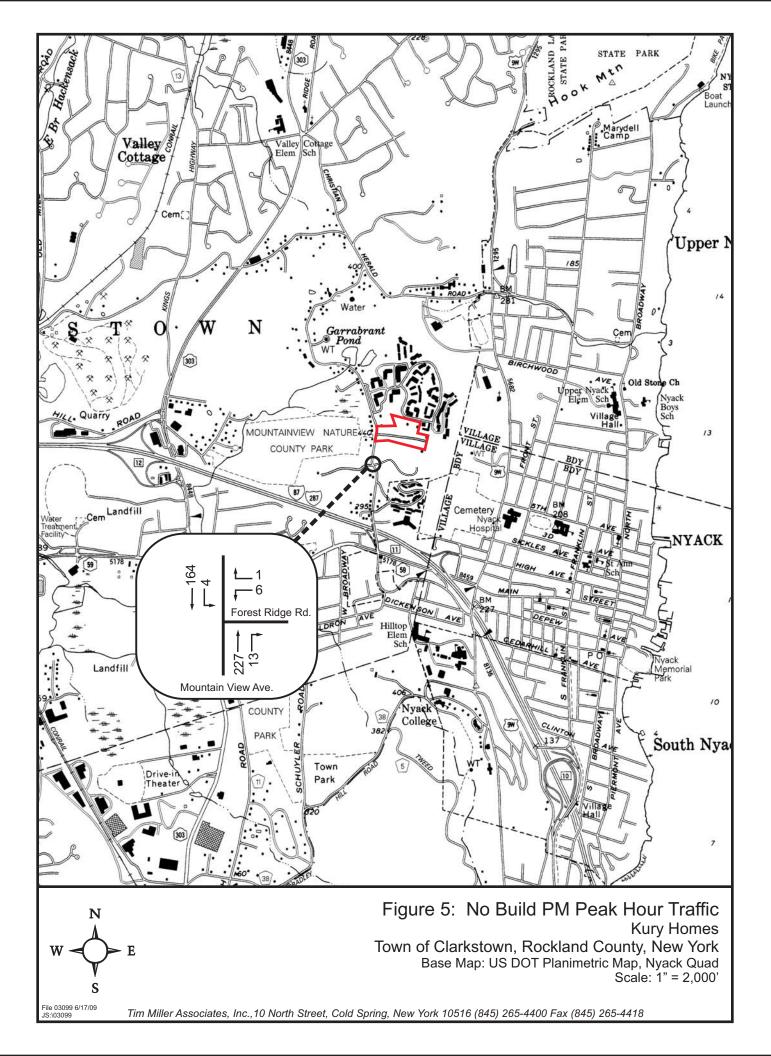
Kury Homes Traffic Study

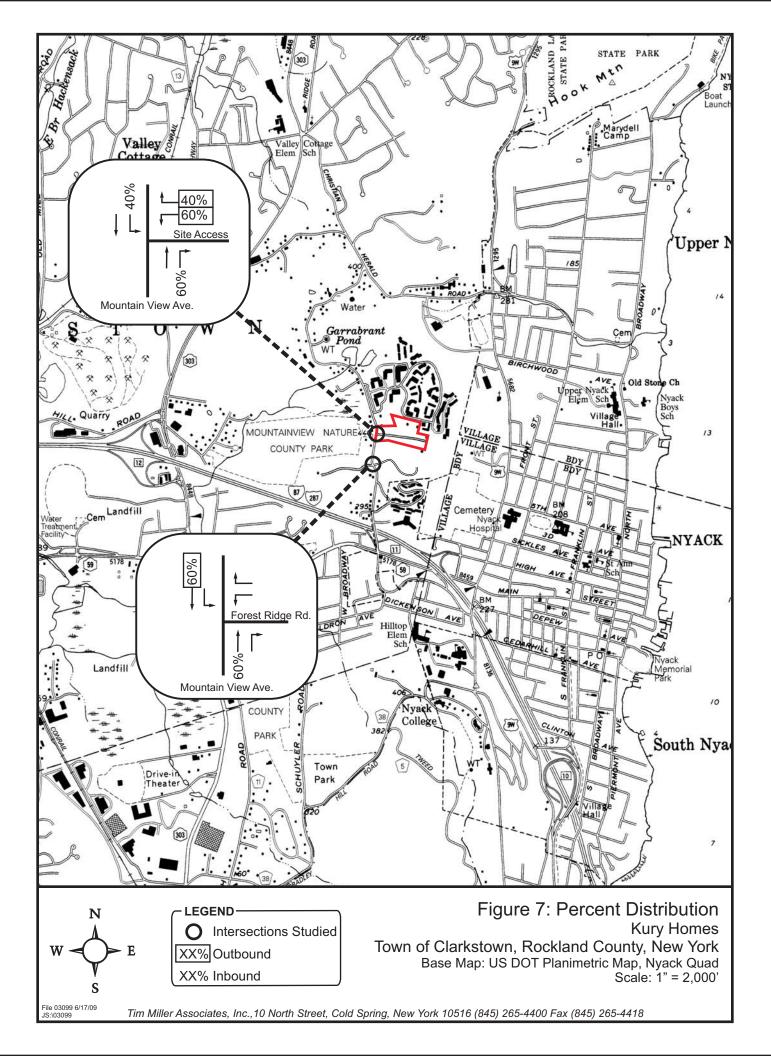


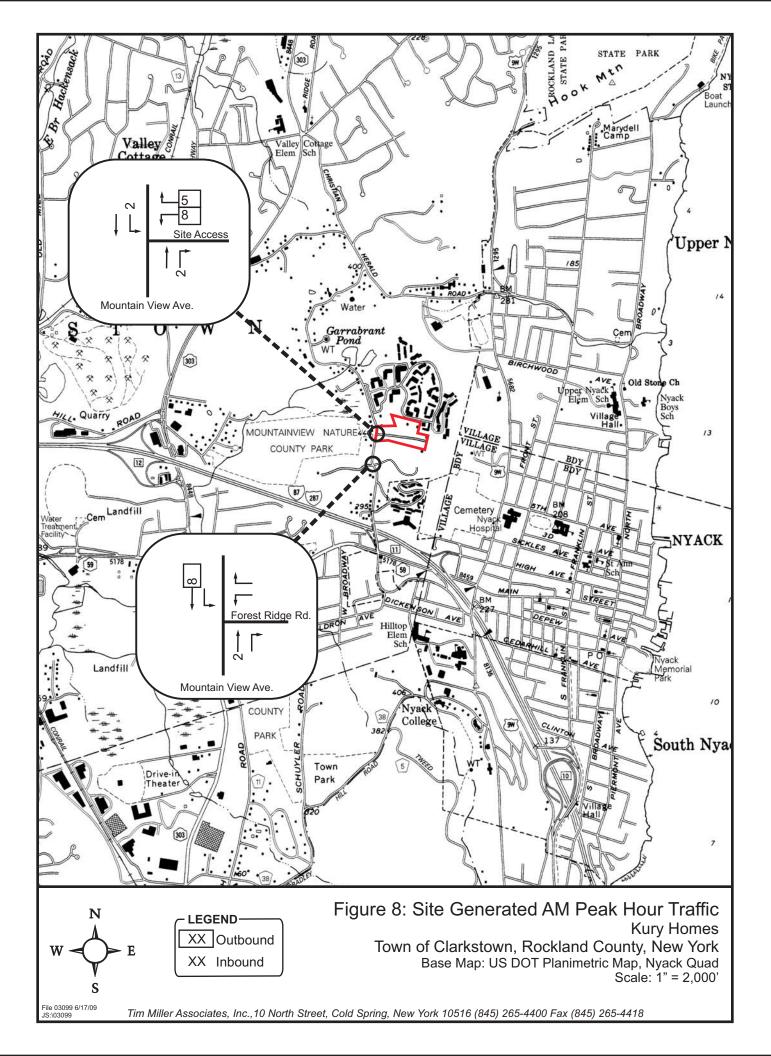


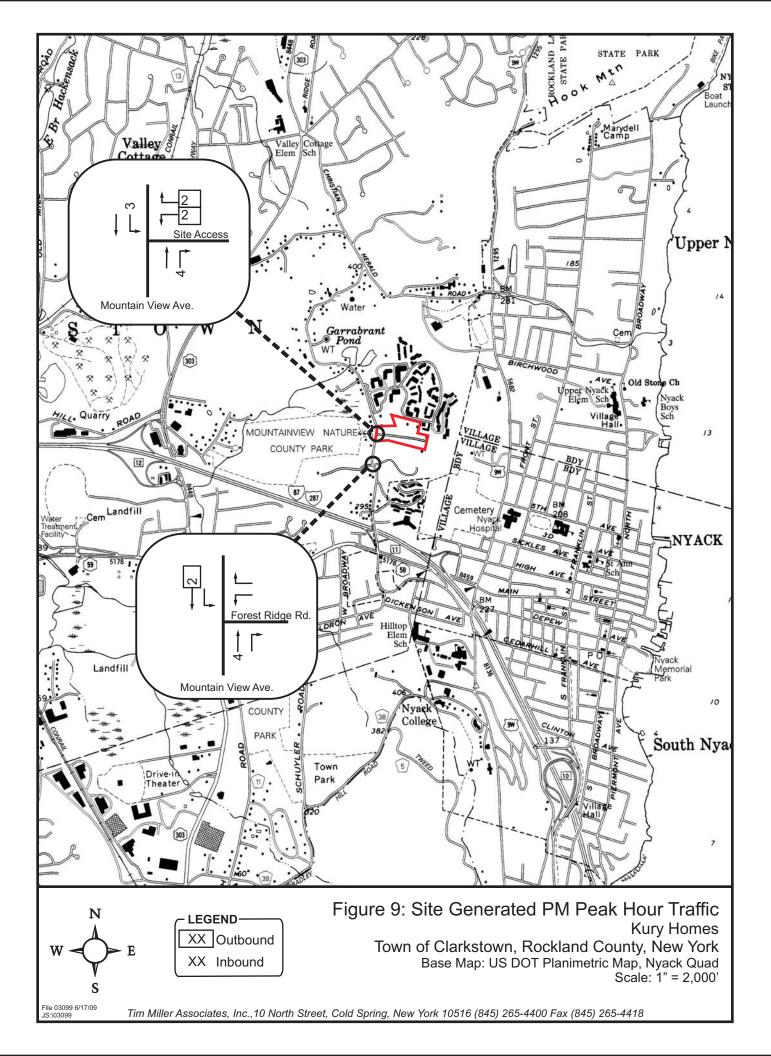


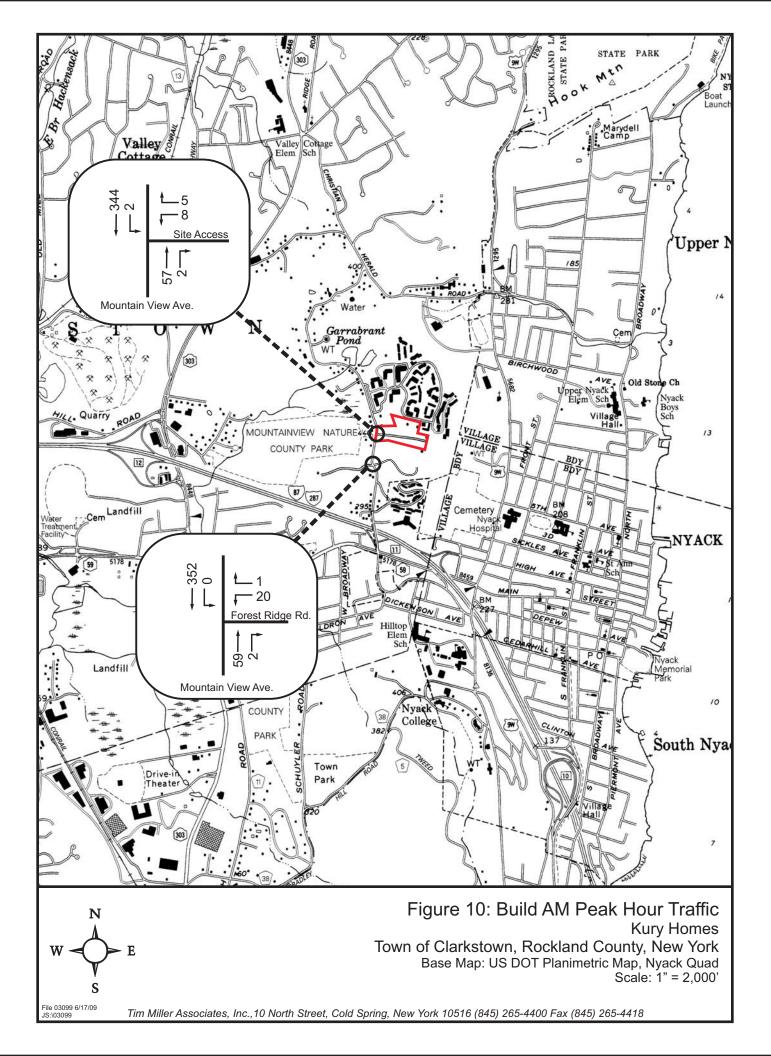


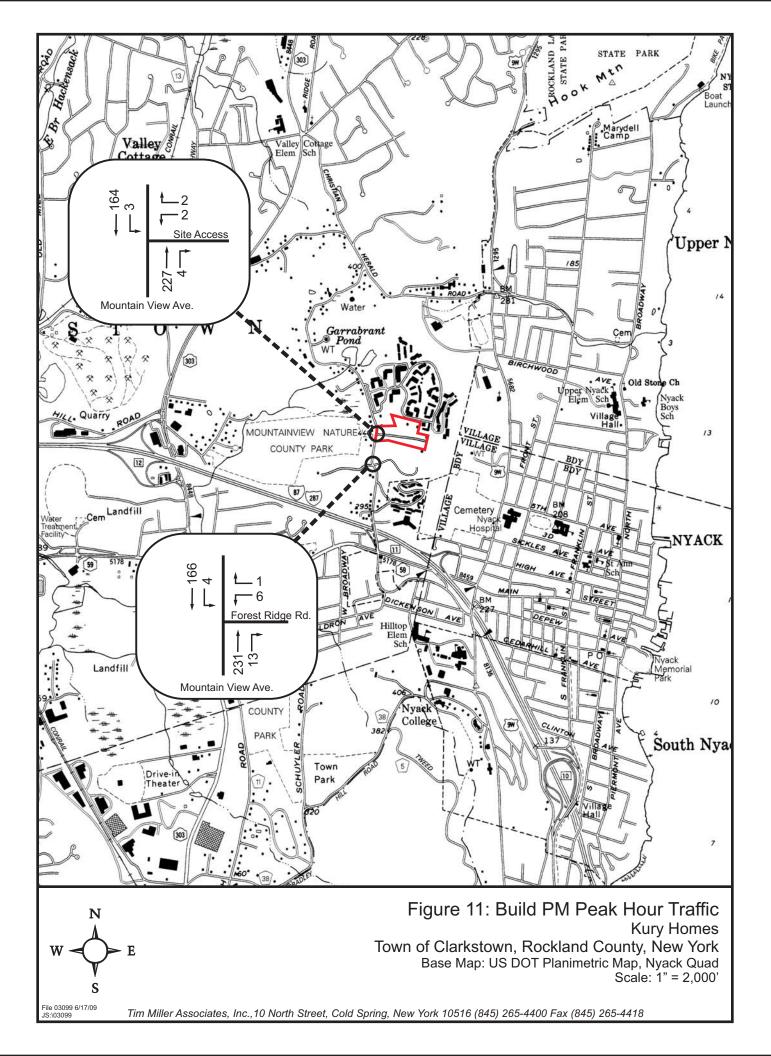












Appendix A

Level of Service Worksheets

CAPACITY CALCULATIONS APPENDIX A

EXISTING

Mountainview Avenue and Forest Ridge Road Existing AM Peak Hour	1
Mountainview Avenue and Forest Ridge Road Existing PM Peak Hour	2

NO-BUILD

Mountainview Avenue and Forest Ridge Road No-Build AM Peak Hour	3
Mountainview Avenue and Forest Ridge Road No-Build PM Peak Hour	4

BUILD

Mountainview Avenue and Forest Ridge Road Build AM Peak Hour	5
Mountainview Avenue and Kury Homes Site Access Build AM Peak Hour	6
Mountainview Avenue and Forest Ridge Road Build PM Peak Hour	7
Mountainview Avenue and Kury Homes Site Access Build PM Peak Hour	8

	1 V	VO-WAY STOP									
General Information			Site Ir	nforma	atio	n					
Analyst	AAC		Interse	Intersection				Mountainview Av Forest Ridge			
Agency/Co.	TMA			Jurisdiction			Town of Clarkstown				
Date Performed	6/17/2009		Analys	Analysis Year			Existing Condition				
Analysis Time Period	AM Peak	Hour									
Project Description Kur											
East/West Street: Forest							iview Avent	le			
Intersection Orientation:	North-South		Study F	Period (h	hrs):	0.25					
Vehicle Volumes and	d Adjustment	ts									
Major Street		Northbound	3				Southbo	und			
Movement	1	2	3			4	5		6		
	L	Т	R			L	T		F	<u> </u>	
Volume (veh/h)		54	2			0	324				
Peak-Hour Factor, PHF	1.00	0.64	0.64			0.94	0.94		1.0	0	
Hourly Flow Rate, HFR (veh/h)	0	84	3			0	344		0		
Percent Heavy Vehicles	0					1					
Median Type				Undiv	vided						
RT Channelized			0				ļ		0		
Lanes	0	1	0			0	1		0		
Configuration			TR			LT					
Upstream Signal		0					0				
Minor Street		Eastbound					Westbou	und			
Movement	7	8	9			10	11		12		
	L	Т	R	R L		Т		R			
Volume (veh/h)						19			1		
Peak-Hour Factor, PHF	1.00	1.00	1.00)		0.50	1.00		0.50		
Hourly Flow Rate, HFR (veh/h)	0	0	0			38	0		2		
Percent Heavy Vehicles	0	0	0			0	0		0		
Percent Grade (%)		0					-3				
Flared Approach		N					N				
Storage		0					0				
RT Channelized			0	Ī			ĺ		0		
Lanes	0	0	0			0	0		0		
Configuration							LR				
Delay, Queue Length, ar	nd Level of Serv	ice	r.	×			R	н			
Approach	Northbound	Southbound		Westbo	ound			Eastbou	und		
Movement	1	4	7	8		9	10	11		12	
Lane Configuration		LT		LR							
v (veh/h)		0		40							
C (m) (veh/h)		1515	1	641				1			
v/c		0.00	ĺ	0.06			1	1			
95% queue length		0.00	1	0.20							
Control Delay (s/veh)		7.4		11.0							
LOS		A		B	-			1			
Approach Delay (s/veh)				11.0)						
Approach LOS			ļ	B	,						
Approach LOS				В							

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		VO-WAY STOP								
General Information			Site Ir	nforma	atio	n				
Analyst	AAC		Interse	rsection			Mountainview Av Forest Ridge			
Agency/Co.	TMA			Jurisdiction			Town of Clarkstown			
Date Performed	6/17/2009		Analysis Year			Existing Condition				
Analysis Time Period	PM Peak	Hour								
Project Description Kur										
East/West Street: Forest							iview Avent	le		
Intersection Orientation:	North-South		Study F	Period (I	hrs):	0.25				
Vehicle Volumes and	d Adjustment	ts								
Major Street		Northbound	3				Southbo	und		
Movement	1	2	3			4	5			6
	L	Т	R			L	<u> </u>			R
Volume (veh/h)		214	12			4	155			
Peak-Hour Factor, PHF	1.00	0.87	0.87	·		0.86	0.86		1	1.00
Hourly Flow Rate, HFR (veh/h)	0	245	13			4	180			0
Percent Heavy Vehicles	0					1				
Median Type				Undiv	vided		1			
RT Channelized			0				ļ			0
Lanes	0	1	0			0	1			0
Configuration			TR			LT				
Upstream Signal		0					0			
Minor Street		Eastbound					Westbou	und		
Movement	7	8	9			10	11		12	
	L	Т	R	R L		Т		R		
Volume (veh/h)						6			1	
Peak-Hour Factor, PHF	1.00	1.00	1.00)		0.58	1.00		0.58	
Hourly Flow Rate, HFR (veh/h)	0	0	0			10	0			1
Percent Heavy Vehicles	0	0	0			0	0			0
Percent Grade (%)		0					-3			
Flared Approach		N					N			
Storage		0					0			
RT Channelized			0							0
Lanes	0	0	0	Í		0	0			0
Configuration		ĺ					LR			
Delay, Queue Length, ar	nd Level of Serv	ice								
Approach	Northbound	Southbound		Westbo	ound			Eastbo	und	
Movement	1	4	7	8		9	10	11		12
Lane Configuration		LT		LR						
v (veh/h)		4		11				1		
C (m) (veh/h)		1313	İ	633	}			1		
v/c		0.00	i	0.02			1			
95% queue length		0.01	i	0.05						
Control Delay (s/veh)		7.8		10.8		<u> </u>	<u> </u>			
LOS		7.8 A		- 10.0 B	,					
	<u> </u>	, 		<u> </u>	>			1		
Approach Delay (s/veh)			ļ)		ļ			
Approach LOS				В						

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TWO-WAY STOP CONTROL SUMMARY

	10	VO-WAY STOP	CONTRO		IMARY					
General Information			Site Ir	nformat	ion					
Analyst	AAC		Intersection			Mountain	Mountainview Av Forest Ridge			
Agency/Co.	TMA		Jurisdi				Town of Clarkstown			
Date Performed	6/17/2009		Analysis Year			No-Build	No-Build Condition			
Analysis Time Period	AM Peak	Hour								
Project Description Kur										
East/West Street: Forest						ainview Avenı	Je			
Intersection Orientation:	North-South		Study F	Period (hr	s): 0.25					
Vehicle Volumes and	d Adjustmen	ts								
Major Street		Northbound				Southbo	und			
Movement	1	2	3		4	5		6		
	L	T	R			T		R		
Volume (veh/h)	1.00	57	2		0	344		1.00		
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	1.00	0.64	0.64		0.94	0.94		1.00		
(veh/h)	0	89	3		0	365		0		
Percent Heavy Vehicles	0				1					
Median Type			1	Undivid	led					
RT Channelized			0					0		
Lanes	0	1	0		0	1		0		
Configuration			TR		LT					
Upstream Signal		0				0				
Minor Street		Eastbound				Westbou	und			
Movement	7	8	9		10	11		12		
	L	T	R	R L		Т		R		
Volume (veh/h)					20			1		
Peak-Hour Factor, PHF	1.00	1.00	1.00)	0.50	1.00		0.50		
Hourly Flow Rate, HFR (veh/h)	0	0	0		40	0		2		
Percent Heavy Vehicles	0	0	0		0	0		0		
Percent Grade (%)		0				-3				
Flared Approach		N				N				
Storage		0				0				
RT Channelized			0					0		
Lanes	0	0	0		0	0		0		
Configuration						LR				
Delay, Queue Length, ar	nd Level of Serv	ice								
Approach	Northbound	Southbound		Westbou	nd		Eastbour	nd		
Movement	1	4	7	8	9	10	11	12		
Lane Configuration		LT		LR						
v (veh/h)		0		42						
C (m) (veh/h)		1509		622						
v/c		0.00		0.07		1	1	- Î		
95% queue length		0.00		0.22			1			
Control Delay (s/veh)		7.4	[11.2			1			
LOS	<u> </u>	A		B			1			
Approach Delay (s/veh)				11.2	ļ			Į		
Approach LOS		ļ		B						
Appilacii LOS				D						

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TWO-WAY STOP CONTROL SUMMARY

,	10	VO-WAY STOP	CONTRO	JL SUI		ARY				
General Information			Site Ir	nforma	tio	n				
Analyst	AAC	Interse	Intersection				view Av	Fore	st Ridge	
Agency/Co.	TMA	Jurisdiction			Town of Clarkstown					
Date Performed	6/17/2009		Analysis Year			No-Build Condition				
Analysis Time Period	PM Peak	Hour								
Project Description Kur										
East/West Street: Forest			North/South Street: Mountainview Avenue							
Intersection Orientation:			Study F	Period (h	rs):	0.25				
Vehicle Volumes and	d Adjustmen									
Major Street		Northbound	- î				1	Southbound		
Movement	1	2	3			4	5			6
	L	T	R				T	<u> </u>		R
Volume (veh/h)	1.00	227	13			4	164		1.00	
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	1.00	0.87	0.87			0.86	0.86	<u> </u>		
(veh/ĥ)	0	260	14			4	190			0
Percent Heavy Vehicles	0					1				
Median Type			1	Undivi	ided		1	<u> </u>		
RT Channelized			0						0	
Lanes	0	1	0			0	1			0
Configuration			TR			LT	Į			
Upstream Signal		0					0			
Minor Street		Eastbound					Westbound			
Movement	7	8		9 10		10	11		12	
	L	Т	R		L		Т			R
Volume (veh/h)					6				1	
Peak-Hour Factor, PHF	1.00	1.00	1.00	00 0.58		0.58	1.00		0	.58
Hourly Flow Rate, HFR (veh/h)	0	0	0			10	0		1	
Percent Heavy Vehicles	0	0	0			0	0		0	
Percent Grade (%)		0					-3			
Flared Approach		N					N			
Storage		0					0			
RT Channelized			0				1			0
Lanes	0	0	0			0	0			0
Configuration							LR			
Delay, Queue Length, ar	nd Level of Serv	ice								
Approach	Northbound	Southbound		Westbo	und		Eastb		und	
Movement	1	4	7	8		9	10	11		12
Lane Configuration		LT		LR						
v (veh/h)		4		11						
C (m) (veh/h)		1295		616						
v/c		0.00		0.02						
95% queue length		0.01		0.05	Ī		1	1		
Control Delay (s/veh)		7.8		11.0				1		
LOS		A	ĺ	B			1	1		
Approach Delay (s/veh)			[11.0			1	1	L	
Approach LOS				B						
	L	ļ	I							

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TWO-WAY STOP CONTROL SUMMARY

	1 V	VO-WAY STOP	CONTRO		IMARY						
General Information			Site Ir	nformat	ion						
Analyst	AAC	Interse	ction		Mountain	Mountainview Av Forest Ridge					
Agency/Co.	TMA			Jurisdiction			Town of Clarkstown				
Date Performed	6/17/2009		Analysis Year			Build Co	ndition				
Analysis Time Period	AM Peak	Hour									
Project Description Kur	ry Homes										
East/West Street: Fores				North/South Street: Mountainview Avenue							
Intersection Orientation:	North-South		Study F	Period (hr	s): <i>0.</i> 25						
Vehicle Volumes an	d Adjustmen	ts									
Major Street		Northbound				1	Southbound				
Movement	1	2		3 4		5		6			
	L	T	R		L	Т		R			
Volume (veh/h)		59	2		0	352					
Peak-Hour Factor, PHF	1.00	0.64	0.64		0.94	0.94		1.00			
Hourly Flow Rate, HFR (veh/h)	0	92	3		0	374		0			
Percent Heavy Vehicles	0				1		ļ				
Median Type				Undivid	led						
RT Channelized			0					0			
Lanes	0	1	0		0	1		0			
Configuration			TR		LT						
Upstream Signal		0				0					
Minor Street		Eastbound				Westbou	und				
Movement	7	8	9		10	11		12			
	L	Т	R		L	Т		R			
Volume (veh/h)					20			1			
Peak-Hour Factor, PHF	1.00	1.00	1.00)	0.50	1.00		0.50			
Hourly Flow Rate, HFR (veh/h)	0	0	0		40	0		2			
Percent Heavy Vehicles	0	0	0		0	0		0			
Percent Grade (%)		0				-3					
Flared Approach		N				N					
Storage		0				0					
RT Channelized			0					0			
Lanes	0	0	0		0	0		0			
Configuration						LR					
Delay, Queue Length, ar	nd Level of Serv	ice	r.			R					
Approach	Northbound	Southbound		Westbound			Eastbour	nd			
Movement	1	4	7	8	9	10	11	12			
Lane Configuration		LT		LR							
v (veh/h)		0		42							
C (m) (veh/h)		1505		613			1				
v/c		0.00	İ	0.07			1				
95% queue length		0.00	1	0.22							
Control Delay (s/veh)		7.4	i	11.3			1				
LOS		A		н.з В	_						
			ļ								
Approach Delay (s/veh)			ļ	11.3							
Approach LOS				В							

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TWO-WAY STOP CONTROL SUMMARY

	1 V	VO-WAY STOP	CONTRO	JL SUN		RΥ					
General Information			Site Ir	nforma	tion						
Analyst	AAC	Interse	Intersection				Mountainview Av Kury Access				
Agency/Co.	TMA		Jurisdi	Jurisdiction			Town of Clarkstown				
Date Performed	6/17/2009		Analys	Analysis Year			Build Cor	Build Condition			
Analysis Time Period	AM Peak	Hour									
Project Description Kur											
East/West Street: Kury F		SS	North/South Street: Mountainview Avenue								
Intersection Orientation:			Study F	Period (hi	rs): (0.25					
Vehicle Volumes an	d Adjustment	ts									
Major Street		Northbound				Southbound					
Movement	1	2		3 4		5			6		
	L	T	R			L	T			R	
Volume (veh/h)	1.00	57	2			2	344				
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	1.00	0.85	0.85		0.	.85	0.85			1.00	
(veh/h)	0	67	2			2	404			0	
Percent Heavy Vehicles	0					1					
Median Type				Undivid	ded						
RT Channelized			0						0		
Lanes	0	1	0			0	1			0	
Configuration			TR		L	LT	ļ				
Upstream Signal		0					0				
Minor Street		Eastbound				Westbou	und				
Movement	7	8	9	10			11		12		
	L	Т	R		L		Т		R		
Volume (veh/h)						8			5		
Peak-Hour Factor, PHF	1.00	1.00	1.00		0.75		1.00			0.75	
Hourly Flow Rate, HFR (veh/h)	0	0	0			10	0		6		
Percent Heavy Vehicles	0	0	0			0	0		0		
Percent Grade (%)		0					-3				
Flared Approach		N					N				
Storage		0					0				
RT Channelized			0							0	
Lanes	0	0	0			0	0			0	
Configuration							LR				
Delay, Queue Length, ar	nd Level of Serv	ice									
Approach	Northbound	Southbound		Westbound			Eastbou		ound		
Movement	1	4	7	8		9	10	1	1	12	
Lane Configuration		LT		LR							
v (veh/h)		2		16							
C (m) (veh/h)		1538		704							
v/c		0.00		0.02							
95% queue length		0.00		0.07							
Control Delay (s/veh)		7.3		10.2				1		[
LOS		A		В	$\neg \vdash$		1	1		İ	
Approach Delay (s/veh)				10.2				<u>I</u>		1	
Approach LOS				B							
				U							

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		VO-WAY STOP										
General Information			Site Ir	nforma	atio	n						
Analyst	AAC		Intersection						st Ridge			
Agency/Co.	TMA				Jurisdiction				Town of Clarkstown			
Date Performed	6/17/2009		Analysis Year			Build Condition						
Analysis Time Period	PM Peak	Hour										
Project Description Kur												
East/West Street: Forest			North/South Street: Mountainview Avenue									
Intersection Orientation:	North-South		Study F	Period (hrs):	0.25						
Vehicle Volumes and	d Adjustmen	ts										
Major Street		Northbound					Southbou	und				
Movement	1	2		3 4			5		6			
	L	Т	R			L	Т		R			
Volume (veh/h)		231	13			4	166					
Peak-Hour Factor, PHF	1.00	0.87	0.87	,		0.86	0.86		1	.00		
Hourly Flow Rate, HFR (veh/h)	0	265	14			4	193			0		
Percent Heavy Vehicles	0					1						
Median Type				Undiv	/ided							
RT Channelized			0							0		
Lanes	0	1	0			0	1			0		
Configuration			TR			LT						
Upstream Signal		0					0					
Minor Street		Eastbound					Westbou	Ind				
Movement	7	8	9		10	11		12				
	L	Т	R	L		L	Т		R			
Volume (veh/h)					6				1			
Peak-Hour Factor, PHF	1.00	1.00	1.00 0.58		0.58	1.00		0	.58			
Hourly Flow Rate, HFR (veh/h)	0	0	0			10	0		1			
Percent Heavy Vehicles	0	0	0			0	0		0			
Percent Grade (%)		0					-3					
Flared Approach		N		Ĩ			N					
Storage		0		Í			0					
RT Channelized			0				1			0		
Lanes	0	0	0			0	0			0		
Configuration						-	LR					
Delay, Queue Length, ar	d Level of Serv	vice										
Approach	Northbound	Southbound		Westbo	ound			Eastbou	und			
Movement	1	4	7	8		9	10	11	a	12		
Lane Configuration	<u> </u>	LT	/	LR		⊢ Ŭ		<u> </u>		14		
v (veh/h)		4		11				1	\rightarrow			
C (m) (veh/h)		1289		611				1				
v/c		0.00		0.02				<u> </u>				
95% queue length		0.01		0.02			<u> </u>					
Control Delay (s/veh)		7.8		11.0			<u> </u>		\rightarrow			
LOS		A		B	-		1					
Approach Delay (s/veh)				11.0)		<u> </u>	<u> </u>				
Approach LOS			ļ	B	,							
Appilacii LOS				D								

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General Information			Site Ir	nform	atio	n				
Analyst	AAC		Interse				Mountain	view Av K	ury Access	
Agency/Co.	TMA		Jurisdiction			Town of Clarkstown				
Date Performed	6/17/2009)	Analysis Year			Build Condition				
Analysis Time Period	PM Peak									
Project Description Kur	v Homes						~			
East/West Street: Kury F		SS	North/S	outh S	treet	Mountair	view Avenu	e		
Intersection Orientation:		Study Period (hrs): 0.25								
Vehicle Volumes and	d Adiustmen	ts								
Major Street		Northbound					Southbou	und		
Movement	1	2	3			4	5		6	
	L	Т	R			L	Т		R	
Volume (veh/h)		227	4			3	164	ĺ		
Peak-Hour Factor, PHF	1.00	0.85	0.85			0.85	0.85		1.00	
Hourly Flow Rate, HFR (veh/h)	0	267	4			3	192		0	
Percent Heavy Vehicles	0					1				
Median Type				Undi	videa					
RT Channelized			0						0	
Lanes	0	1	0			0	1	i i	0	
Configuration			TR			LT		i i		
Upstream Signal		0					0			
Minor Street		Eastbound		Westbound						
Movement	7	8	9	9 10		10	11		12	
	L	Т	R		L		Т		R	
Volume (veh/h)					2				2	
Peak-Hour Factor, PHF	1.00	1.00	1.00		0.75		1.00		0.75	
Hourly Flow Rate, HFR (veh/h)	0	0	0		2		0		2	
Percent Heavy Vehicles	0	0	0			0	0		0	
Percent Grade (%)		0					-3			
Flared Approach		N					N			
Storage		0					0	1		
RT Channelized		1	0				· · ·		0	
Lanes	0	0	0			0	0		0	
Configuration		1					LR			
Delay, Queue Length, ar	nd Level of Serv	ice	я				R			
Approach	Northbound	Southbound		Westbo	ound			Eastboun	d	
Movement	1	4	7	8		9	10	11	12	
Lane Configuration	· · · ·	LT		LR						
v (veh/h)		3	ĺ	4		ĺ	1			
C (m) (veh/h)		1298		684						
v/c		0.00		0.01				_		
95% queue length		0.01		0.07						
Control Delay (s/veh)		7.8		10.			<u> </u>	<u> </u>		
LOS		A		- 70. B			<u> </u>	<u> </u>		
Approach Delay (s/veh)				10.			<u> </u>	I		
Approach LOS										
Approach LOS				В						

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