

Expanded Environmental Assessment

For:

Millbrook Apartments

Village of Great Neck
Nassau County, New York

May 2018



Cameron Engineering & Associates, LLP

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1. Executive Summary

1.1. Project Description

1.1.1. Background

The applicant proposes to modify an existing 119-unit apartment complex to remove 34 units¹ and add 101 units for a total of 186 residential units upon completion. 314 parking spaces would be provided, providing 100% of required parking for the new units and increasing the overall on-site parking ratio from 1.13 spaces per unit (existing conditions) to 1.69 spaces per unit (after completion). The property is located on Middle Neck Road between Old Mill Road and the southern boundary of the Village of Great Neck (Section 2, Block 354, Lot 138). The property is located in the Residence E or Apartment zoning district and will utilize incentives available within the Middle Neck Road Multifamily Incentive Overlay District (MNR-MIO). § 575-285 (B) of the Village of Great Neck Code describes the MNR-MIO district boundaries as follows: “The boundaries of said district, as shown on the Building Zone Map of the Village of Great Neck, shall be coterminous with the boundaries of the Residence E District.”

This Expanded Environmental Assessment examines the existing conditions, potentially significant adverse impacts that might result from the proposed project and mitigation of the construction and operation of the proposed apartment building. A Full Environmental Assessment Form is provided in Appendix A.

1.1.2. Purpose, Public Benefits, and Operation

The site is currently developed with a 119-unit apartment complex (Millbrook Apartments). The purpose of the proposed project is to remove 34 of the existing units¹ and add an additional 101 units for a total of 186 residential units. The subject property is currently under rent-stabilization controls and will continue to provide rent-stabilized housing in accordance with all New York State Division of Housing and Community Renewal (DHCR) requirements. Out of the 85 existing units to remain, it is anticipated that approximately 80 (\pm) units will continue to be subject to DHCR rent-stabilization guidelines.

¹ A 3BR unit is created by combining two existing 1BR units and is included in post-demo parking calculation.

1.1.3. Location and Access

The project site is located on Middle Neck Road between Old Mill Road and the southern boundary of the Village of Great Neck in the Village of Great Neck, New York (Section 2, Block 354, Lot 138). The project site is 4.35 acres. Middle Neck Road is a major arterial, which serves as the primary access road to and from the Great Neck Peninsula. In addition, the project site is approximately 0.75 miles north of the Great Neck LIRR station. The N58 bus, a Nassau Inter County Express (NICE) bus serves the project site and provides quick access to the Great Neck LIRR station and downtown commercial area.

1.2. Potential Impacts and Proposed Mitigation

1.2.1. Impact on Land

Soils and Topography

Potential Impacts – The site is relatively flat. Stormwater runoff during and following construction could lead to site erosion and off-site sedimentation if not properly controlled.

Proposed Mitigation – See construction mitigation below.

Construction Impacts

Potential Impacts of Proposed Project – Like any construction project, the construction of Millbrook Apartments would have short-term environmental impacts. They could include soil erosion, noise, traffic disruption, and dust.

A. Pappajohn Company is the general contractor for this project and has prepared a Site Logistics Plan (Figure 2-2) detailing the two major phases of construction. The Site Logistics Plan has been designed to minimize potential impacts while the building is under construction. An overall construction schedule is also provided, which details the sequencing and duration of each phase of construction (Figure 2-3).

Proposed Mitigation – Throughout the construction process, all construction vehicles and materials will be stored on-site within the limits denoted by the temporary construction fencing. To accommodate the potential demand for off-site resident and contractor vehicle parking during construction, the applicant has initiated discussions with nearby religious institutions (Temple Beth-El and Shaare Zion) to provide off-site parking for resident and construction worker vehicles if on-site space becomes limited during construction.

A detailed Soil Erosion Control Plan has also been prepared (Figure 2-8). Erosion would be curtailed by the use of construction fencing with silt barriers, storm drain inlet filters and filter protection for new drywells on-site. The construction entrances would be stabilized with crushed stone to prevent soil and loose debris from being carried onto local roads. All construction-related erosion control measures would be removed during final landscaping.

Based on Village of Great Neck construction activity regulations, weekday construction activities would be confined to the hours of 8 AM to 7 PM. Weekend construction activities would be restricted to the hours of 9 AM to 7 PM on Saturdays and holidays.

1.2.2. Impact on Water

Groundwater

Potential Impacts – Depth to groundwater ranges from approximately 50 feet below grade at the southern end of the site to approximately 30 feet at the northern end. Impacts to groundwater include increased withdrawals by the water authority and impacts from stormwater runoff (addressed in the following section). Water consumption by the proposed project is estimated at 47,400 gallons per day (see section on Utilities), which is approximately 35,900 gallons per day over existing use on the site. The proposed project may have a minor impact on ground water and would be mitigated by the measures detailed below.

Proposed Mitigation – Water conserving fixtures would be installed in the apartments and would reduce consumption of public water. Use of compost would conserve moisture in planters. Roof collection systems would return rainwater to the ground through the use of dry wells. Sanitary wastewater discharged from the apartments and would be connected to the public sewer system to protect on-site groundwater.

Stormwater

Potential Impacts – Site development would result in approximately 3.04 acres of impervious surfaces and 1.31 acres of pervious surfaces (an increase in impervious surface area of approximately percent (11%) compared to existing conditions).

Proposed Mitigation – The drainage system will be designed to handle an eight-inch rainfall event, providing approximately 1,020 linear feet/102,000 cubic feet of storage (1000.9 linear feet/100,090 cubic feet required).

1.2.3. Impact on Air

Potential Impacts of Proposed Project – Potential impacts to air quality are anticipated to be minimal.

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

1.2.4. Impact on Plants and Animals

Potential Impacts of Proposed Project – The proposed redevelopment would occur within an existing developed area.

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

1.2.5. Impact on Agricultural Land Resources

There are no agricultural land resources on the project site.

1.2.6. Impact on Aesthetic Resources

Potential Impacts of Proposed Project – The visual character of the site would change slightly as a result of development. The existing 119-unit apartment complex would be renovated to include 186 residential units. Additional landscaping will be installed, particularly along the property boundaries to enhance the aesthetics of the area. The proposed project would complement the other multi-family buildings in the surrounding community.

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

1.2.7. Impact on Critical Environmental Areas

There are no critical environmental areas on the project site.

1.2.8. Impact on Transportation

Potential Impacts of Proposed Project – The highway capacity analysis of the study intersections shows that the development of the subject property will have no perceptible impact to the level of service on the surrounding roadway network, with the exception of the North Site Access.

Proposed Mitigation – As part of the redevelopment of this project the North Site Access will become the main exit for the complex and the South Site Access will become the main entrance for the complex. The southbound stop line on Middle Neck Road, at the intersection with Wooleys Lane, is located approximately 65 feet south of the driveway. Approximately six vehicles can queue at the signal (within the two southbound lanes) before blocking the site driveway. It is recommended that “Do Not Block The Box” pavement markings and signage be installed at this location.

1.2.9. Impact on Energy

Potential Impacts of Proposed Project – A slight increase in energy consumption would occur as a result of the development.

Proposed Mitigation – Modern energy efficient building materials and energy conservation would be incorporated into the new building.

1.2.10. Noise and Odor Impacts

Potential Impacts of Proposed Project – Any noise or odors generated by the proposed apartment complex would be similar to that generated by existing apartment complexes in the area.

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

1.2.11. Impact on Public Health

There would be no impact on public health from the proposed apartment building.

1.2.12. Impact on Growth and Character of Community or Neighborhood

Potential Impacts – The redevelopment of an existing apartment complex would have minimal impacts on area properties as it would be similar to other multifamily properties in the immediate area. Adjacent properties comprise multi-family residential buildings to the north and east, institutional buildings to the south and east, and single-family housing to the west.

The subject property is zoned Residence E or Apartment District and will utilize incentives available within the Middle Neck Road Multifamily Incentive Overlay District (MNR-MIO). Many of the buildings on Middle Neck Road and within the

vicinity of the project site are multi-family and institutional buildings that have been developed within the Residence E or Apartment zoning district.

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

1.2.13. Need for Additional Community Services

Emergency Services

Potential Impacts of Proposed Project – A minor increase might be expected in the demand for emergency medical services, fire and police protection due to the net increase of 67 residential units.

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

Schools

Potential Impacts of Proposed Project – Based on published rates, Millbrook Apartments could become the home of approximately 29 school-aged children attending public schools (an estimated net increase of 19 students).

Proposed Mitigation – None required. A net increase of 19 new students would represent an increase of less than three-tenths of one percent in enrollment (district enrollment for the 2015-2016 school year was 6,394 in grades K-12). With a very small number of students projected, new costs would be minimal as there should not be a need for additional classrooms or teachers.

Utilities

Potential Impacts of Proposed Project – Public supply water usage for the proposed redevelopment project is estimated to be 47,400 gallons per day, which is a net increase of approximately 35,900 gallons per day. Wastewater flow is similarly estimated at 47,400 gallons per day, a net increase of approximately 35,900 gallons per day. Letters requesting water and sewer availability were sent to the Water Authority of Great Neck North and the Great Neck Water Pollution Control District (Appendix B). It is anticipated that both the Water Authority of Great Neck North and the Great Neck Water Pollution Control District have sufficient resources to provide water and sewer service to the proposed project.

For the proposed project, solid waste production is estimated at four (4) pounds/bedroom per day.² For the proposed project, this would total approximately 1,152 pounds per day, a net increase of 512 pounds per day over existing conditions. Each building will have a garbage chute leading to a compactor. Solid waste would then be collected by a private carter and disposed of at a permitted solid waste management facility.

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

1.3. Conclusions

Redevelopment of the subject property as a residential apartment building would have no significant adverse environmental impacts on the site and surrounding area. The proposed apartment complex would be in keeping with the numerous other multi-family buildings in the area. The proposed apartments would introduce new or transplanted residents to the community that would patronize area businesses and contribute to the tax base. In addition, the subject property will continue to provide rent-stabilized housing, helping to maintain affordable multifamily housing within the Great Neck community.

² *Technical Bulletin #85-6, Basic Data: Solid Waste Amounts, Composition and Management Systems*, National Solid Waste Management Association, October 1985.

2. Project Description

2.1. Introduction

The applicant proposes to redevelop an existing 119-unit apartment complex by removing 34 units³ and adding 101 units for a total of 186 residential units. The project site is a 4.35-acre property located on Middle Neck Road in the Village of Great Neck, New York. The site address is 240-250 Middle Neck Road (Section 2, Block 354, Lot 138). The proposed project is located within the Residence E or Apartment zoning district and will utilize incentives available within the Middle Neck Road Multifamily Incentive Overlay District (MNR-MIO).

A Location/Aerial Map is provided in Figure 2-1. The proposed project would be consistent with surrounding land uses. The environmental impacts associated with the proposed project are not expected to be significant and are described below.

2.2. Location

The project site is located on Middle Neck Road between Old Mill Road and the southern boundary of the Village of Great Neck. The site address is 240-250 Middle Neck Road and comprises one tax lot (Section 2, Block 354, Lot 138) totaling approximately 4.35 acres (see Figure 2-1).

2.3. Site Layout

The proposed project will result in a total of 186 residential units – a net increase of 67 units. Overall lot size is 4.35 acres (189,481.6 square feet) with the proposed buildings totaling 1.66 acres (72,157.7 square feet) – a lot coverage of 38.1% (up to 60% permitted as per VGN Code §575-111). Building footprints for the existing site and proposed project are displayed in the tables below. Table 2-1 provides of summary of the existing site layout and Table 2-2 provides the site layout for the proposed project.

³ A 3BR unit is created by combining two existing 1BR units and is included in post-demo parking calculation

Table 2-1: Summary of Existing Site Layout

| Building | Lot Coverage (SF) | Studio | 1 BR | 2 BR |
|---------------------------------|--------------------------|---------------|-------------|-------------|
| Ex. Building A | 10,486 | 4 | 16 | 8 |
| Ex. Building B | 5,583 | - | 10 | 5 |
| Ex. Building C | 15,250 | 8 | 20 | 12 |
| Ex. Building D | 6,442 | - | 8 | 8 |
| Ex. Building E | 7,621 | 4 | 8 | 8 |
| Existing Buildings Total | 45,382 | 16 | 62 | 41 |

Table 2-2: Summary of Overall Proposed Site Layout

| Building | Proposed Project Lot Coverage (SF) | 1 BR/Studio | 2 BR | 3 BR | Total Units |
|-------------------------------------|---|--------------------|-------------|-------------|--------------------|
| Prop. Building North | 23,550.6 | 32 | 11 | 16 | 59 |
| Prop. Building South | 7,977.0 | 11 | 16 | - | 27 |
| Prop. Building West | 7,492.0 | 2 | 13 | - | 15 |
| Prop. West Garage Stair Bulkhead | 400.0 | - | - | - | - |
| Proposed New Buildings Total | 39,419.6 | 45 | 40 | 16 | 101 |
| Existing Buildings Total | 32,733.1 | 56 | 28 | 1* | 85 |
| OVERALL PROJECT TOTAL | 72,152.7 | 101 | 68 | 17 | 186 |

*Note: 1 3 BR unit will be created from units within Existing Building A; however for parking/zoning calculation purposes, the 3 BR unit will be counted as a new unit.

The existing buildings to remain on site (Existing Buildings A,C,D and E) are all two-story brick structures approximately 23 feet in height from average grade to the roof. The proposed new buildings comprise three and four-story buildings with a maximum height of 42 feet.

There will be a 22-foot, 7-inch front yard setback (increase of more than four (4) feet over existing conditions), 25-foot, 7-inch side yard setbacks, and 29-foot rear yard setback (same as existing conditions). The proposed setbacks are in compliance with VGN Code §575-112/113/114.

Overall density for the proposed project is approximately 42.8 dwelling units (du) per acre (186 units/4.35 acre site), which falls below the 43 du/acre maximum permitted in VGN Code §575-(110).

Upon completion, there will be 101 one-bedroom units, 68 two-bedroom units and 17 three-bedroom units. The applicant intends to retain existing site staff, including a site superintendent.

The applicant is providing 314 off-street parking spaces, with 293 spaces located within on-site parking garages and 21 on-grade parking spaces. The existing apartment complex provides approximately 1.13 parking spaces for each apartment unit (134 parking spaces/119 units). Upon completion of the project the site will provide 1.69 parking spaces per unit (314 parking spaces/186 units) – providing 100% of the required parking for the 101 new units. The redevelopment of the site is anticipated to decrease on street parking demand in proximity to the site.

Plans for the proposed project are provided in Figure 2-2 - Figure 2-15. Aerial photographs and renderings of the proposed project are provided in Figure 2-16.

2.4. Approval Process

2.4.1. Village of Great Neck

The following approvals would be required:

1. Board of Trustees (incentive zoning, tandem parking, parking waiver and site plan review)
2. SEQRA compliance
3. Building Permit
4. Plumbing
5. Sewer Connection
6. Construction Dumpsters
7. Signs
8. Street Openings
9. Curb Cuts
10. Sidewalk Openings
12. Tree Removals

2.4.2. Great Neck Water Pollution Control District

A sewer connection would be required from the Great Neck Water Pollution Control District. Letters requesting water availability were sent on March 24, 2015 and July 25, 2017. Copies are included in Appendix B. It is anticipated that the Great Neck Water Pollution Control District has sufficient capacity to accept flow from the proposed project.

2.4.3. Water Authority of Great Neck North

A letter of water availability is required from the Water Authority of Great Neck North. Letters requesting water availability were sent on March 24, 2015, June 29, 2016 and July 25, 2017. Copies included in Appendix B. It is anticipated that the Water Authority has sufficient resources to provide water service to the proposed project. The applicant will pay for the design and construction of the connection to the Water Authority. Water use would be moderated through the use of the water conservation methods described below in Section 3.2.

2.4.4. Nassau County

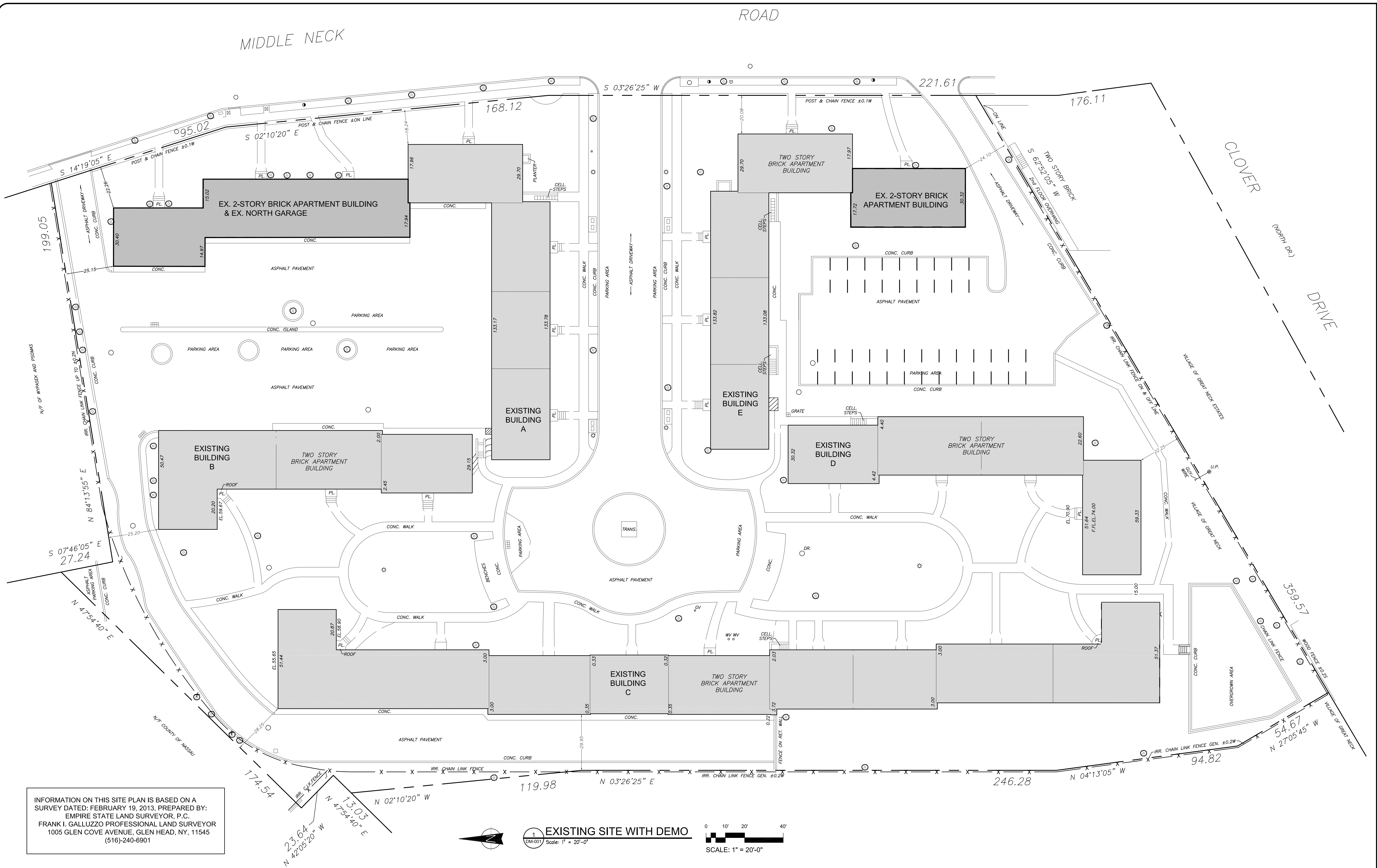
The proposed project plans would be subject to review by the Nassau County Department of Public Works Pursuant to Section 239-F of the General Municipal Law. The proposed project would be subject to review by the Nassau County Planning Commission. New York State General Municipal Law Section 239-M requires that municipalities refer projects that are located within 500 feet of a County right-of-way (Middle Neck Road) to the Nassau County Planning Commission for its recommendation. In addition, the Nassau County Department of Health must approve the proposed water and sewer connections.

2.5. Construction Schedule

Construction is estimated to extend approximately 27 months, or two years, subject to weather-related delays and other unforeseen events. Based on Village of Great Neck construction activity regulations, weekday construction activities would be confined to the hours of 8 AM to 7 PM. Weekend construction activities would be restricted to the hours of 9 AM to 7 PM on Saturdays and Holidays.

- Figure 2-1: Location/Aerial Map**
- Figure 2-2: Site Logistics Plan**
- Figure 2-3: Construction Schedule**
- Figure 2-4: Existing Site with Demo**
- Figure 2-5: Site Plan**
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- Figure 2-14: South Building Layout and Elevations**
- Figure 2-15: West Buildings Layout and Elevations**
- Figure 2-16: Aerial Photography**





INFORMATION ON THIS SITE PLAN IS BASED ON A SURVEY DATED: FEBRUARY 19, 2013, PREPARED BY: EMPIRE STATE LAND SURVEYOR, P.C. FRANK I. GALLUZZO PROFESSIONAL LAND SURVEYOR 1005 GLEN COVE AVENUE, GLEN HEAD, NY, 11545 (516)-240-6901

EXISTING SITE WITH DEMO
Scale: 1" = 20'-0"
SCALE: 1" = 20'-0"

| REV. | DATE | DESCRIPTION |
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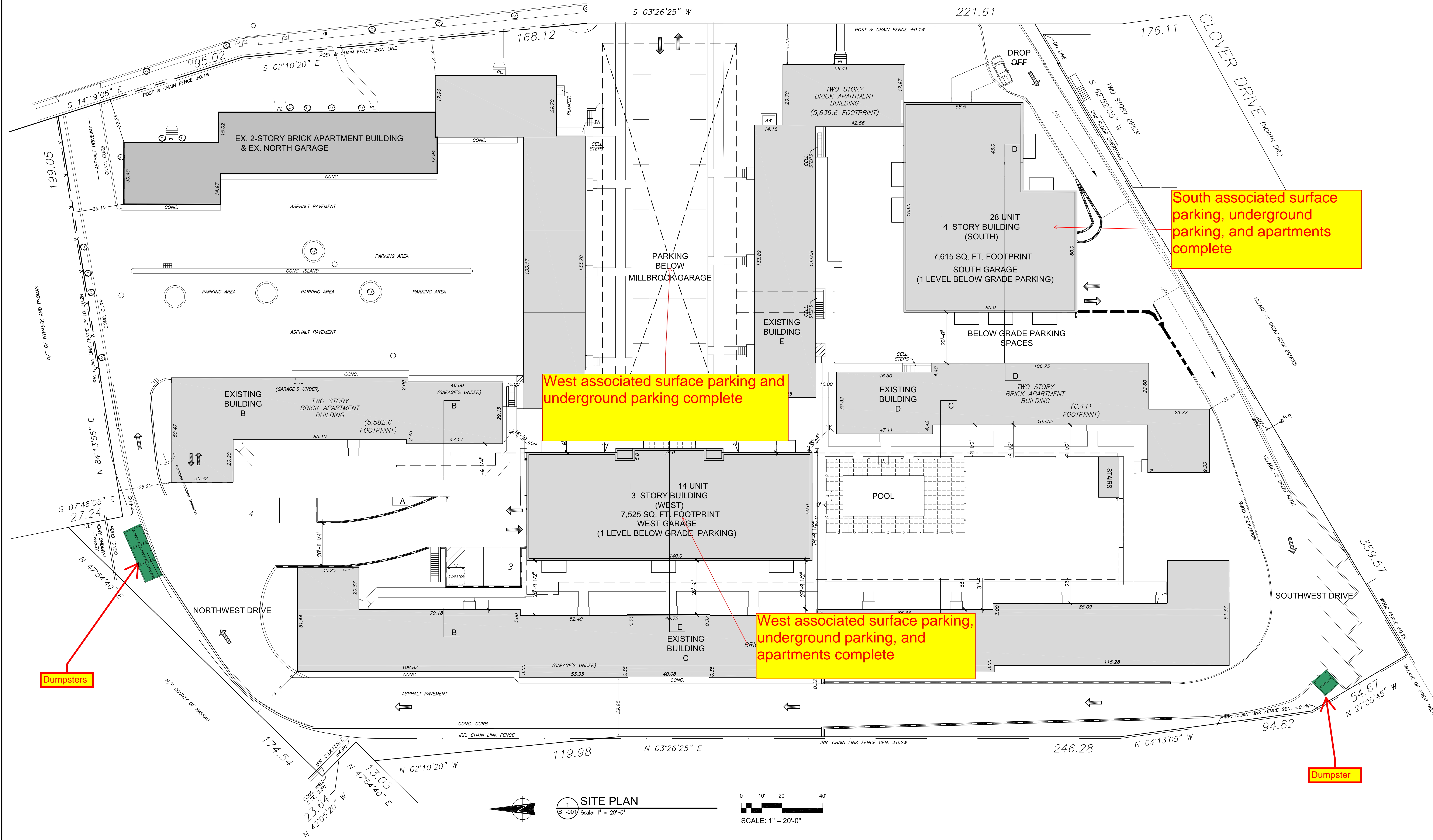


PROJECT:
MILLBROOK APARTMENTS
GREAT NECK, NY

TITLE:
EXISTING CONDITIONS

STAMP: DATE: 14-43
JOB #: DRAWN BY:
SCALE: AS NOTED
DRAWING NO:
Ex. Conditions

FILE No. : SHEET:



| REV. | DATE | DESCRIPTION |
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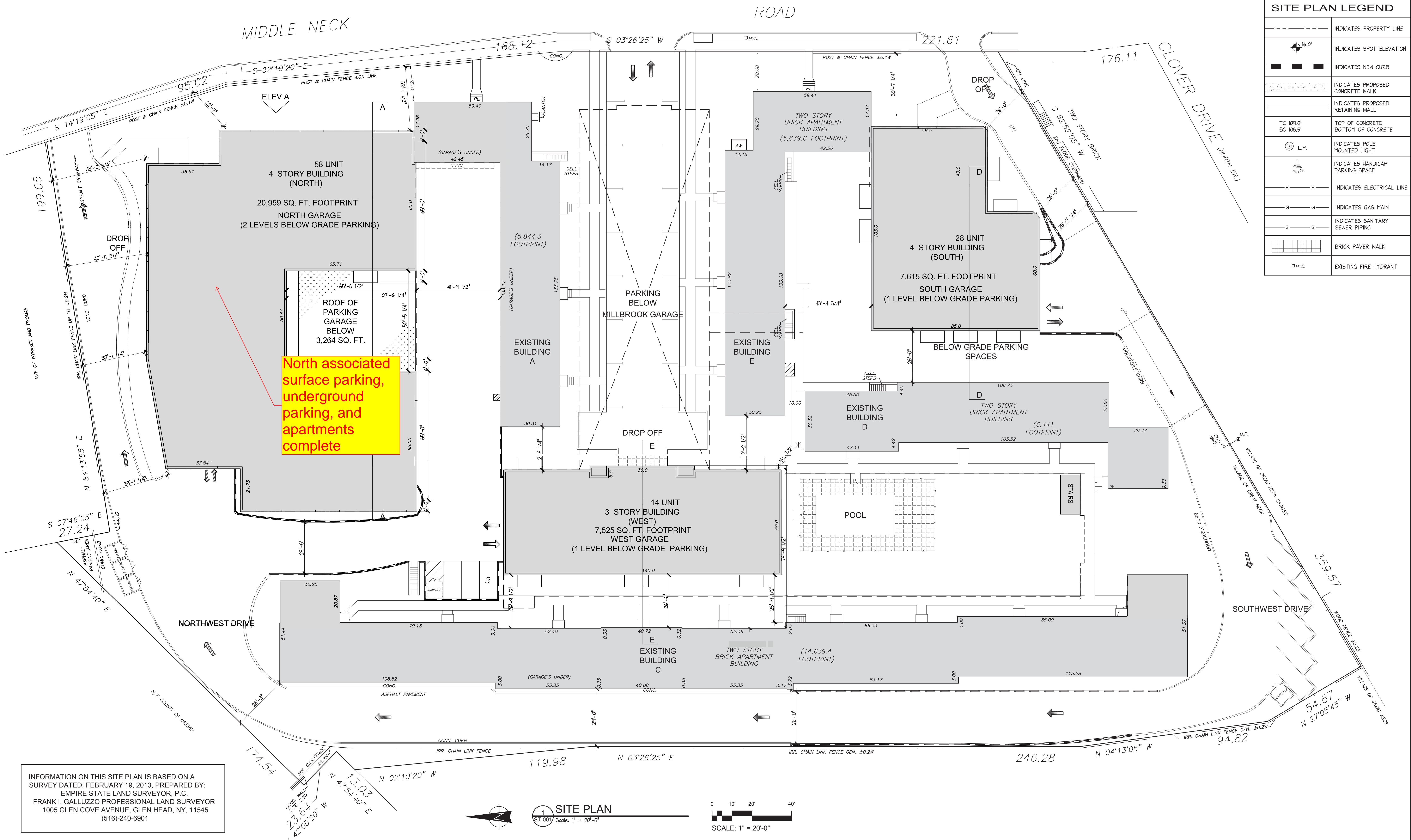
A. PAPPASJOHN COMPANY

PROJECT:
MILLBROOK APARTMENTS
GREAT NECK, NY

TITLE:
Phase 1

| | |
|-------------------------------|---|
| STAMP: | DATE: JOB #: 14-43 DRAWN BY: SCALE: AS NOTED |
| DRAWING NO: Phase 1 | |

FILE No.: SHEET:



North associated surface parking, underground parking, and apartments complete

| SITE PLAN LEGEND | |
|------------------------|---------------------------------------|
| --- | INDICATES PROPERTY LINE |
| 16.0' | INDICATES SPOT ELEVATION |
| █ | INDICATES NEW CURB |
| ▤ | INDICATES PROPOSED CONCRETE WALK |
| ▥ | INDICATES PROPOSED RETAINING WALL |
| TC 109.0' BC 108.5' | TOP OF CONCRETE BOTTOM OF CONCRETE |
| L.P. | INDICATES POLE MOUNTED LIGHT |
| ♿ | INDICATES HANDICAP PARKING SPACE |
| —E—E— | INDICATES ELECTRICAL LINE |
| —G—G— | INDICATES GAS MAIN |
| —S—S— | INDICATES SANITARY SEWER PIPING |
| ▩ | BRICK PAVER WALK |
| ⊕ | EXISTING FIRE HYDRANT |

**Phase Duration:
52 Weeks**

| REV. | DATE | DESCRIPTION |
|----------|---------|-------------|
| 03-01-17 | REVISED | |
| 12-22-16 | REVISED | |
| 08-03-16 | REVISED | |
| 12-02-15 | REVISED | |
| 11-19-15 | REVISED | |
| 11-13-15 | REVISED | |
| 11-09-15 | REVISED | |
| 10-26-15 | REVISED | |
| 9-04-15 | REVISED | |
| 8-19-15 | REVISED | |

INFORMATION ON THIS SITE PLAN IS BASED ON A SURVEY DATED: FEBRUARY 19, 2013, PREPARED BY: EMPIRE STATE LAND SURVEYOR, P.C. FRANK I. GALLUZZO PROFESSIONAL LAND SURVEYOR 1005 GLEN COVE AVENUE, GLEN HEAD, NY, 11545 (516)-240-6901



PROJECT:
MILLBROOK APARTMENTS
GREAT NECK, NY

TITLE:
Phase 2

STAMP: DATE: 08/14/15
JOB #: 14-43
DRAWN BY: JK
SCALE: AS NOTED

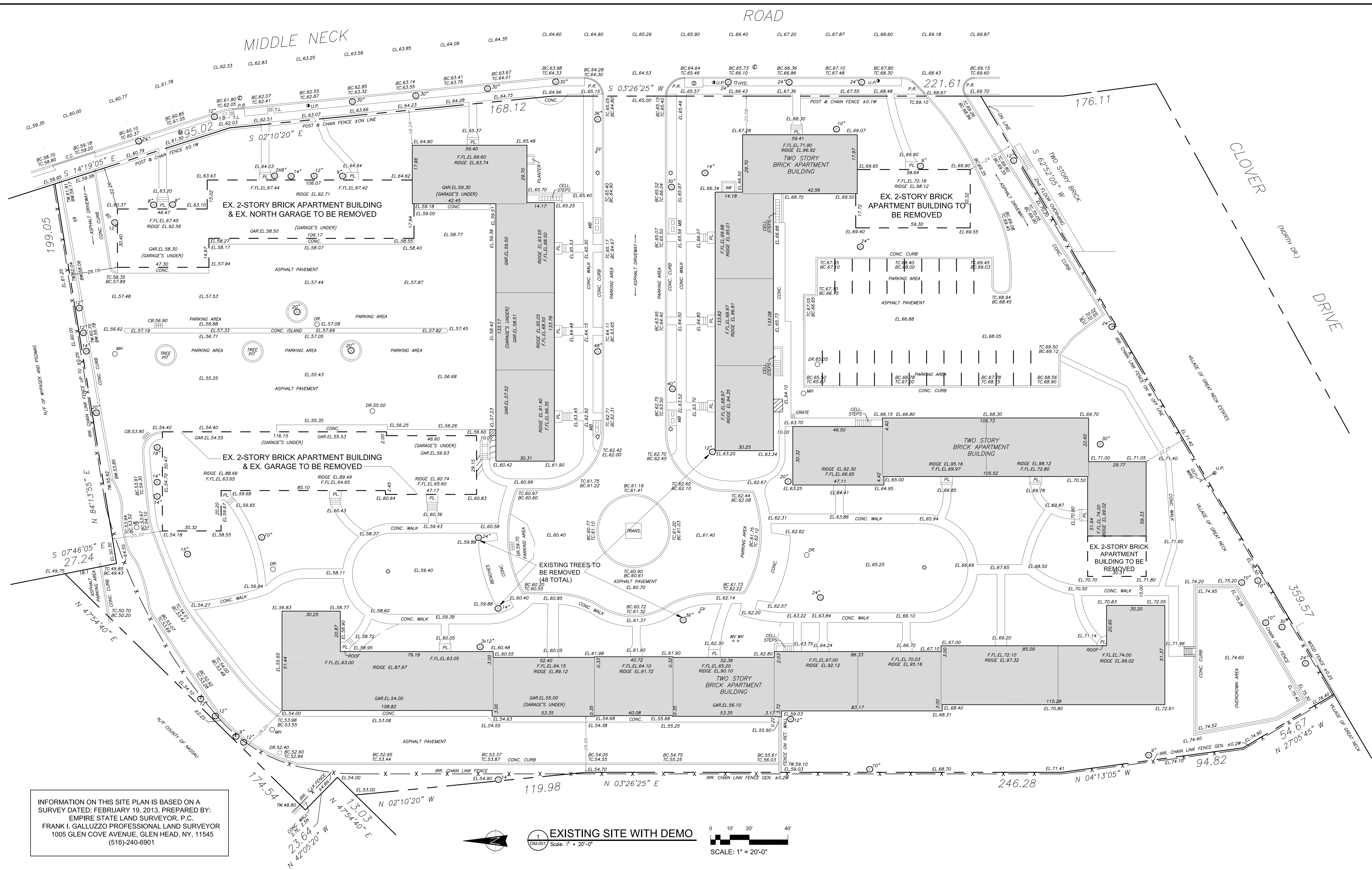
DRAWING NO:
Phase 2

FILE No. : SHEET:

Millbrook Apartments Proposed Construction Schedule

Overall Construction Period: Approximately 27 months

| | PHASE 1 | | | | | | | | | | | | | | | PHASE 2 | | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 | Month 15 | Month 16 | Month 17 | Month 18 | Month 19 | Month 20 | Month 21 | Month 22 | Month 23 | Month 24 | Month 25 | Month 26 | Month 27 |
| Pre-construction/site preparation | █ | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | |
| Install safety fencing/temporary sidewalks/bridges/lighting etc. | | | | █ | | | | | | | | | | | | | | | | | | | | | | | |
| Construct construction entrances and complete loop drive around property. Demolish 6 units on south side of property (Ex. Buildings D & E) | | | | █ | | | | | | | | | | | | | | | | | | | | | | | |
| Site restoration/development and excavation for South building/garage | | | | | █ | █ | █ | | | | | | | | | | | | | | | | | | | | |
| Site restoration/development and excavation for West building/garage | | | | | | | | █ | █ | █ | █ | | | | | | | | | | | | | | | | |
| Construction of South and West buildings and plazas/drive decks | | | | | | | | | | | | █ | █ | █ | | | | | | | | | | | | | |
| Completion of South and West buildings/garages | | | | | | | | | | | | | | | █ | | | | | | | | | | | | |
| Demolish 13 units on north side of property (Ex. Building A) | | | | | | | | | | | | | | | | █ | | | | | | | | | | | |
| Demolish 15 units (Ex. Building B). Site restoration/development and excavation for North building/garage | | | | | | | | | | | | | | | | | █ | █ | █ | █ | █ | | | | | | |
| Construction of North building/garage and plazas/drive decks. Site work including sidewalks, drives and curbs | | | | | | | | | | | | | | | | | | | | | | █ | █ | █ | █ | █ | █ |



INFORMATION ON THIS SITE PLAN IS BASED ON A SURVEY DATED: FEBRUARY 19, 2013, PREPARED BY: EMPIRE STATE LAND SURVEYOR, P.C. FRANK I. GALLUZZO PROFESSIONAL LAND SURVEYOR 1005 GLEN COVE AVENUE, GLEN HEAD, NY, 11545 (516)-240-6901

1 EXISTING SITE WITH DEMO
 Scale: 1" = 20'-0"
 SCALE: 1" = 20'-0"

| REV. | DATE | DESCRIPTION |
|----------|------|---|
| 05-23-18 | | ISSUED TO VISION AND HANSA COUNTY PLANNING COMMISSION |
| 03-25-18 | | REVISED |
| 12-19-17 | | REVISED |
| 07-20-17 | | REVISED |
| 06-03-16 | | REVISED |
| 12-02-16 | | REVISED |
| 11-19-16 | | REVISED |
| 11-13-16 | | REVISED |
| 11-09-16 | | REVISED |
| 10-26-16 | | REVISED |
| 9-29-16 | | REVISED |
| 9-04-16 | | REVISED |



PROJECT:
MILLBROOK APARTMENTS
 240-250 MIDDLE NECK ROAD
 GREAT NECK, NY 11023

TITLE:
EXISTING SITE WITH DEMO BUILDING DEMO

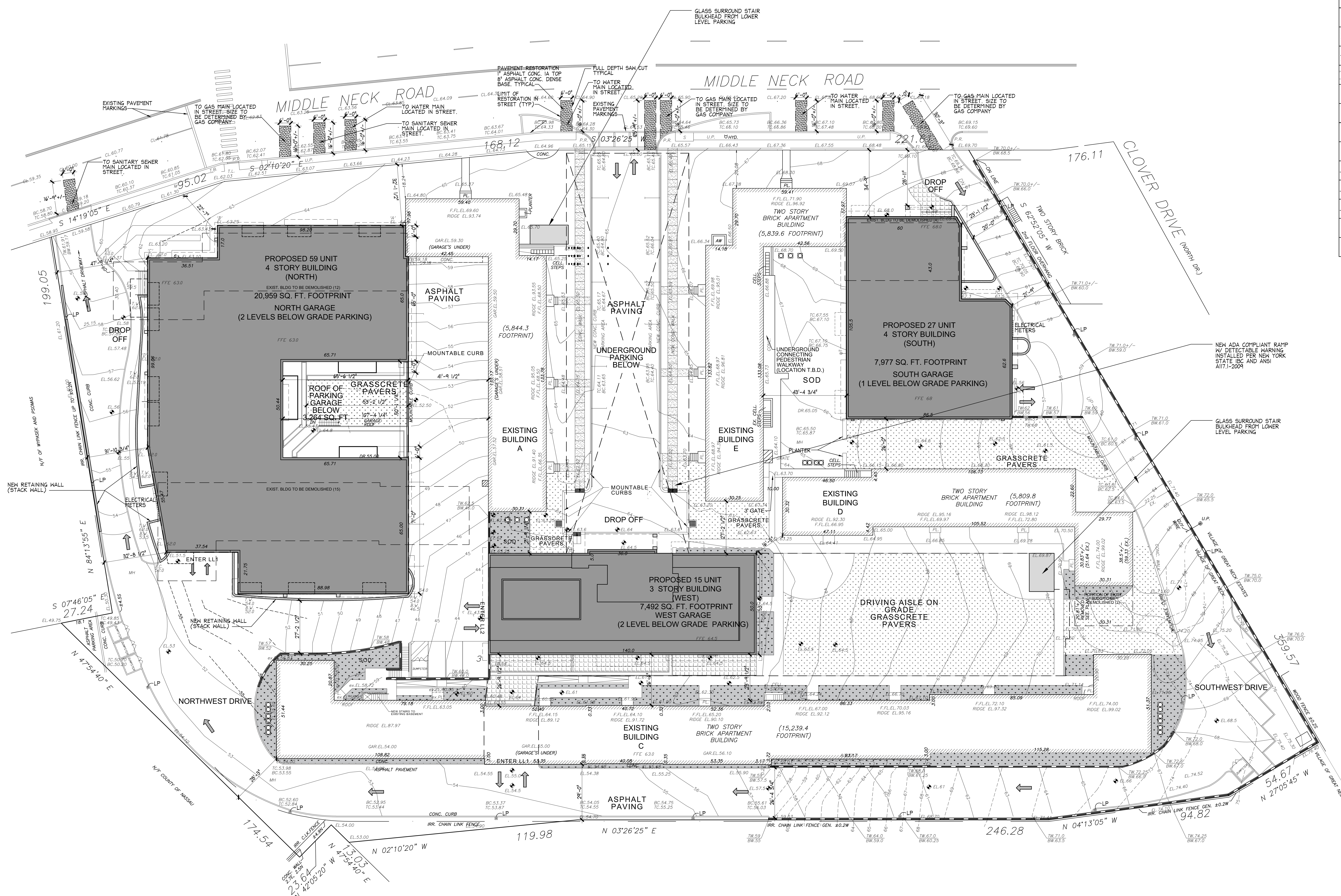
STAMP: DATE: 9/04/15
 JOB #: 14-43
 DRAWN BY: AG
 SCALE: AS NOTED

DRAWING NO:
AD-001

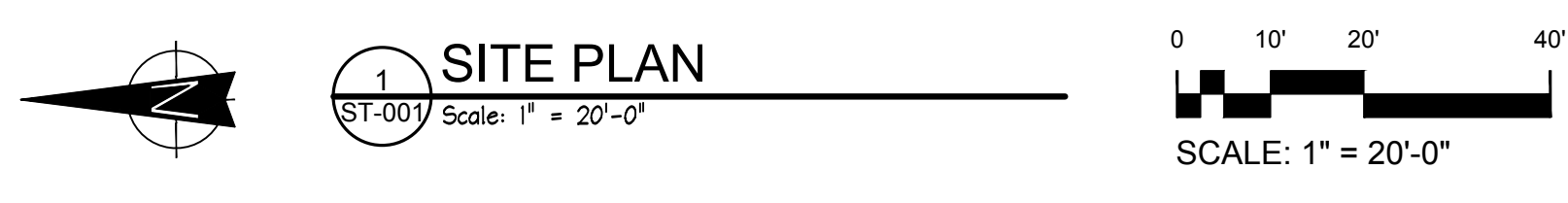
FILE No.: SHEET:

SITE PLAN LEGEND

| | |
|--|--|
| | INDICATES PROPERTY LINE |
| | INDICATES SPOT ELEVATION |
| | INDICATES NEW CURB |
| | INDICATES NEW RETAINING WALL |
| | INDICATES PROPOSED CONCRETE MALK |
| | INDICATES PROPOSED STACK WALL RETAINING MALK |
| | TOP OF CONCRETE |
| | BOTTOM OF CONCRETE |
| | INDICATES POLE |
| | INDICATES HANDICAP PARKING SPACE |
| | INDICATES ELECTRICAL LINE |
| | INDICATES GAS MAIN |
| | INDICATES SANITARY SEWER PIPING |
| | BRICK PAVEMENT MALK |
| | EXISTING FIRE HYDRANT |



INFORMATION ON THIS SITE PLAN IS BASED ON A SURVEY DATED: FEBRUARY 19, 2013, PREPARED BY: EMPIRE STATE LAND SURVEYOR, P.C. FRANK I. GALLUZZO PROFESSIONAL LAND SURVEYOR 1005 GLEN COVE AVENUE, GLEN HEAD, NY, 11545 (516) 240-8901



| REV. | DATE | DESCRIPTION |
|----------|------|--|
| 05-23-18 | | ISSUED TO CITY OF WEST NASSAU COUNTY PLANNING COMMISSION |
| 03-05-18 | | REVISED |
| 12-18-17 | | REVISED |
| 07-20-17 | | REVISED |
| 05-19-17 | | REVISED |
| 03-13-17 | | REVISED |
| 03-01-17 | | REVISED |
| 12-22-16 | | REVISED |
| 08-03-16 | | REVISED |
| 12-02-16 | | REVISED |
| 11-19-16 | | REVISED |
| 11-13-16 | | REVISED |
| 11-09-16 | | REVISED |
| 10-26-16 | | REVISED |
| 9-04-16 | | REVISED |
| 8-19-16 | | REVISED |

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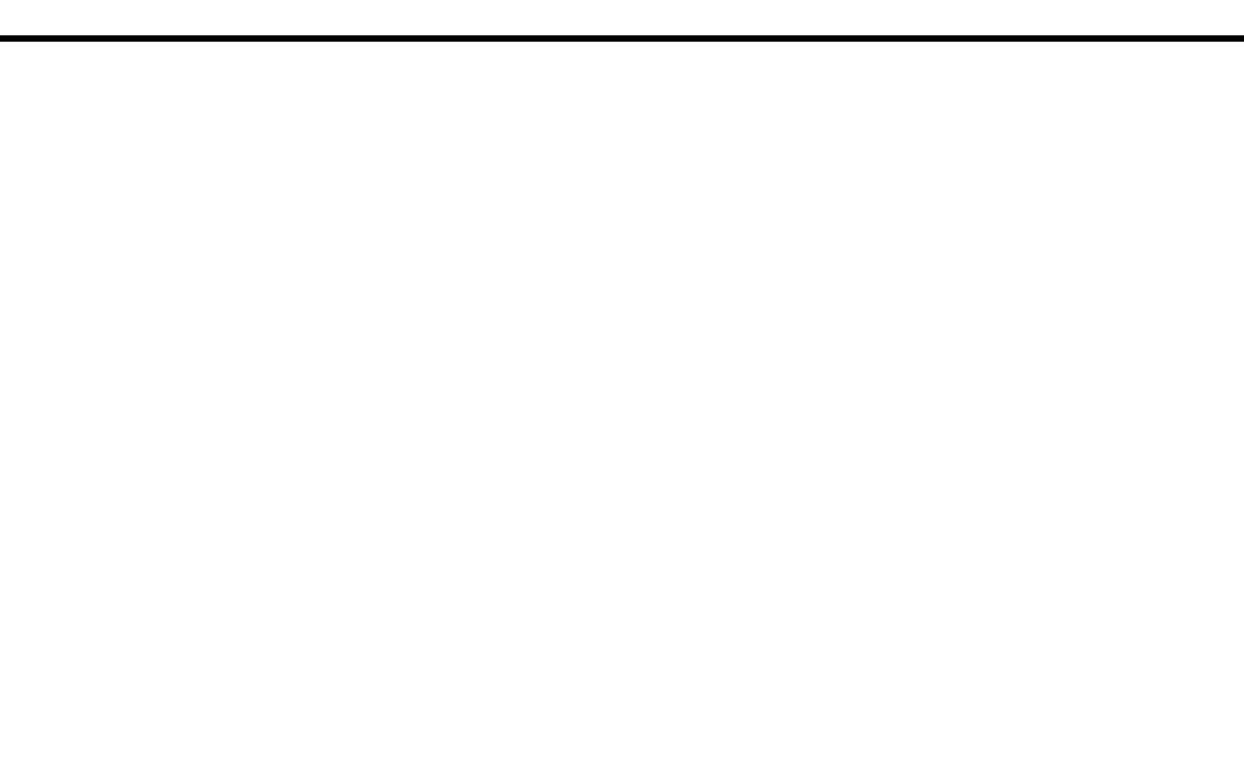
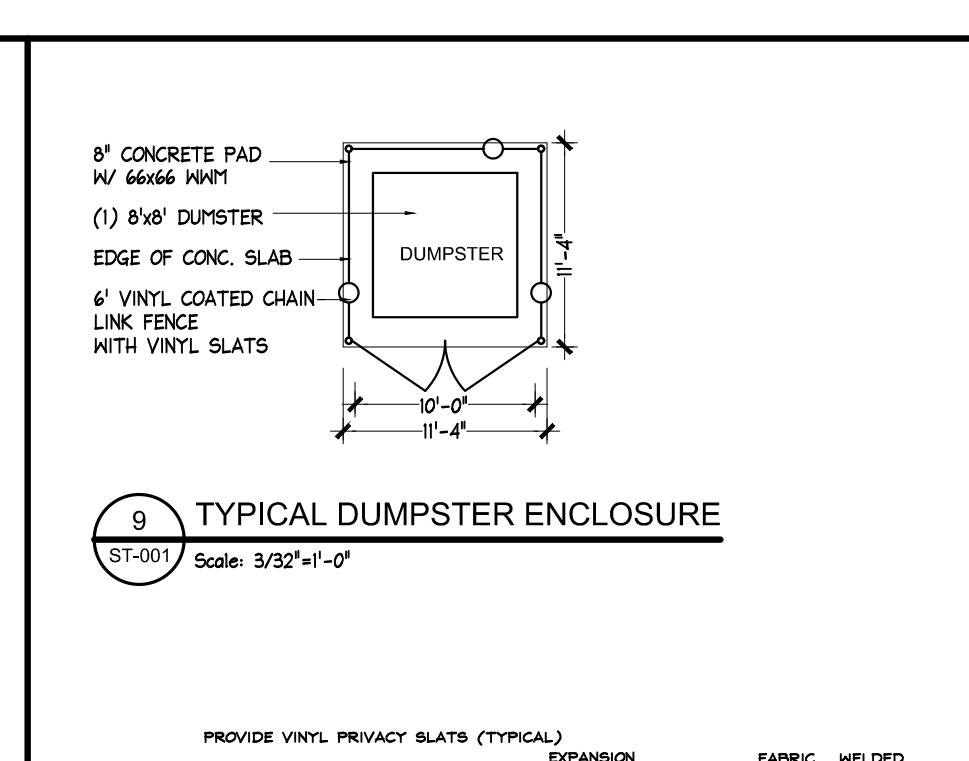
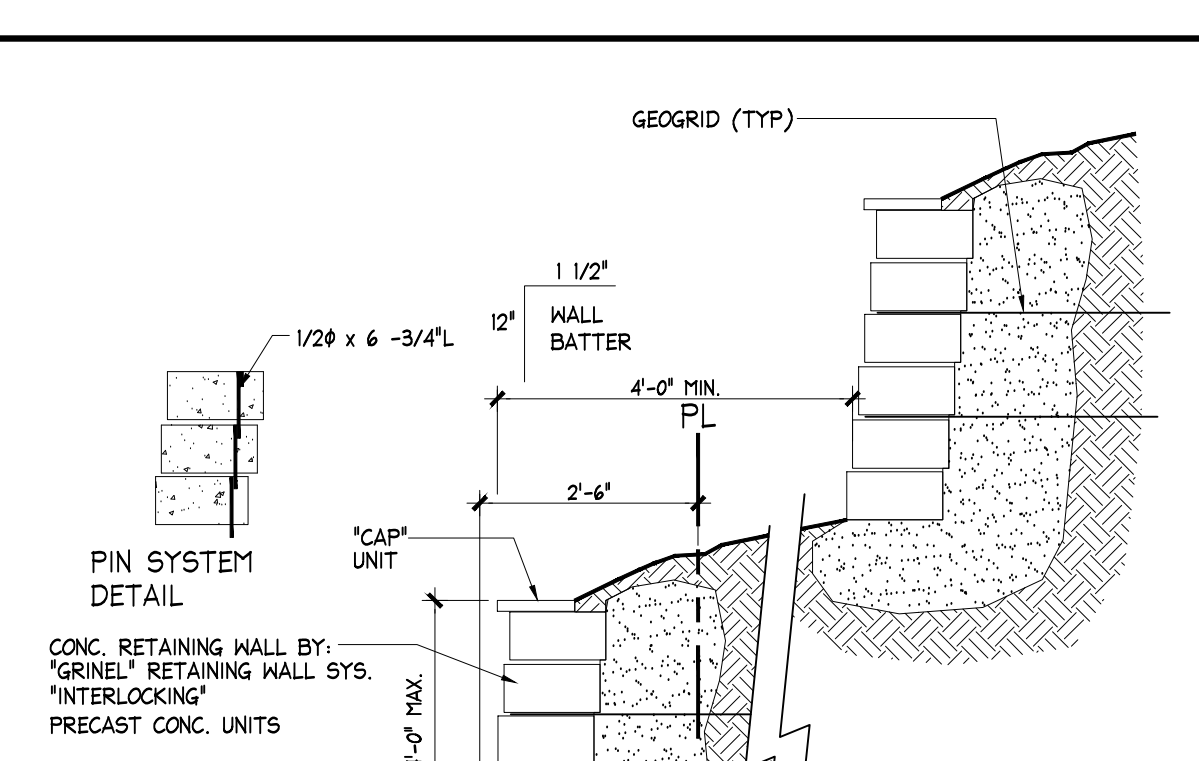
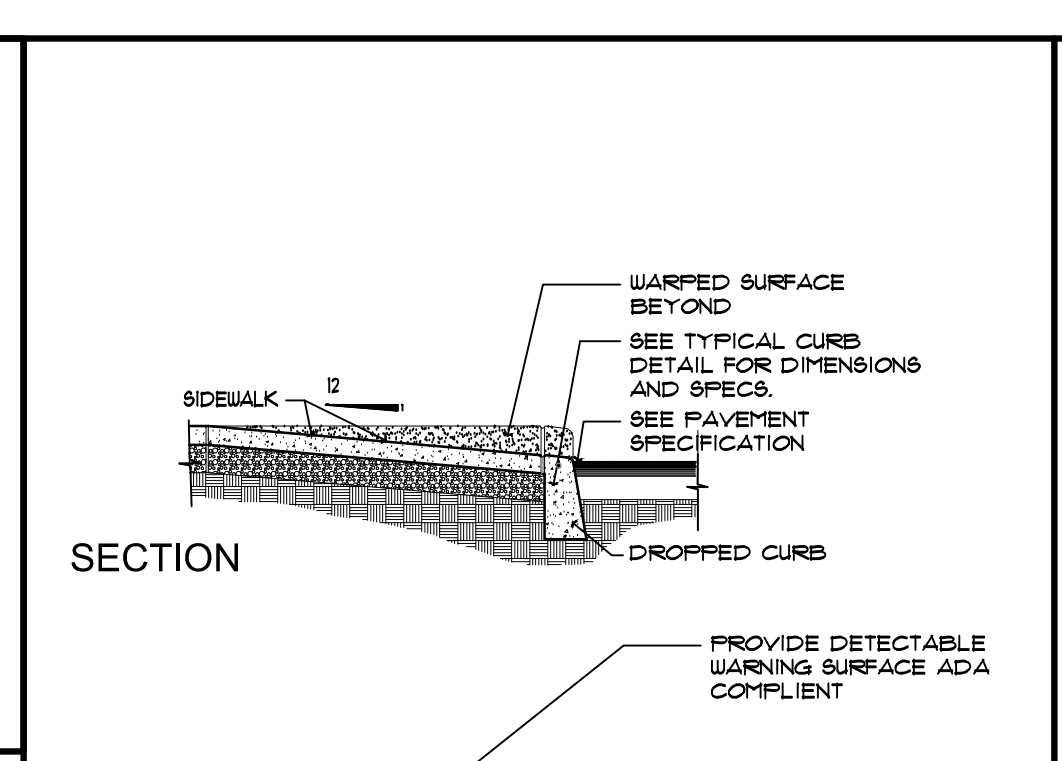
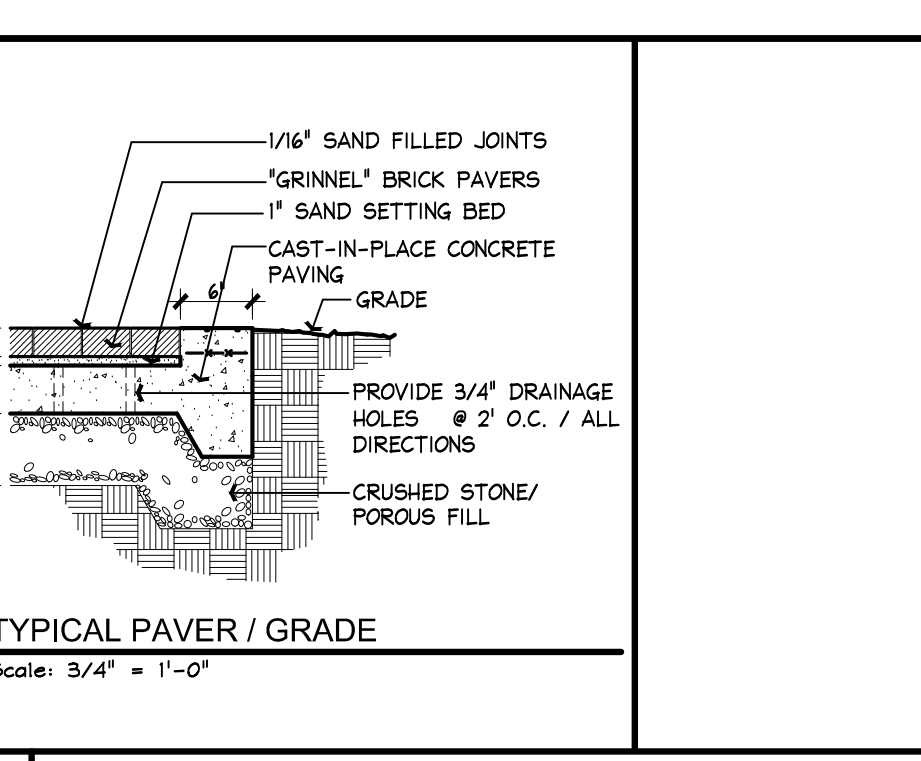
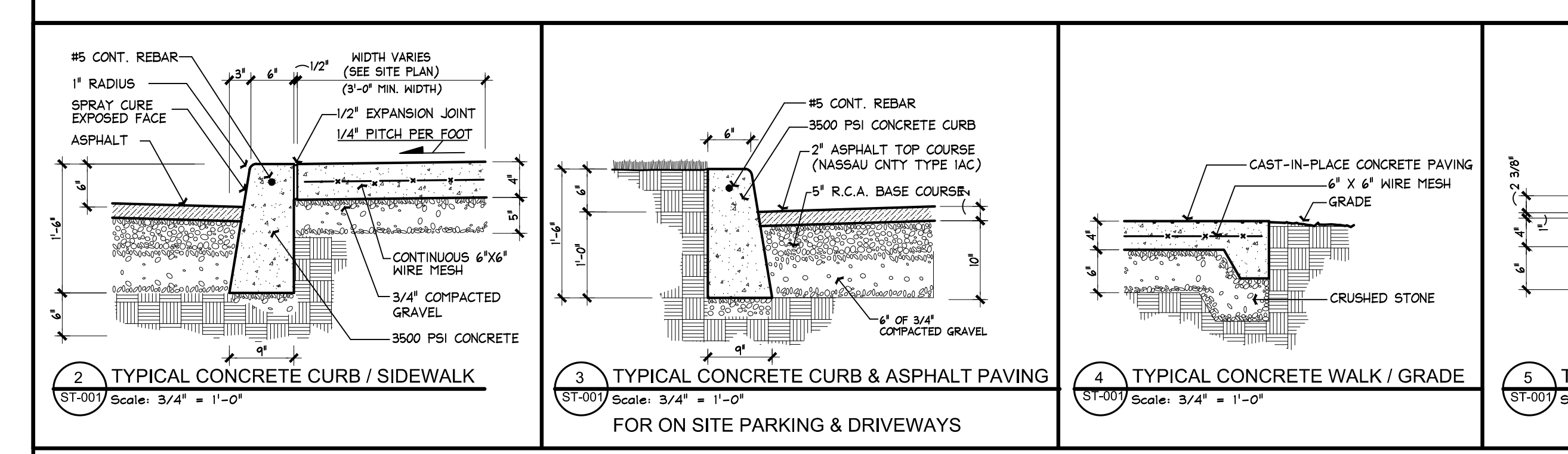
PROJECT:
MILLBROOK APARTMENTS
 240-250 MIDDLE NECK ROAD
 GREAT NECK, NY 11023

TITLE:
SITE PLAN

STAMP: DATE: 08/14/15
 JOB #: 14-43
 DRAWN BY: AG
 SCALE: AS NOTED

DRAWING NO.: **ST-001**

FILE NO.: SHEET:



LOT COVERAGE

EXISTING BUILDINGS

| | |
|-------------|--------------------|
| EX. BLDG. A | = 5,844.3 SQ. FT. |
| EX. BLDG. C | = 15,239.4 SQ. FT. |
| EX. BLDG. D | = 5,809.8 SQ. FT. |
| EX. BLDG. E | = 5,839.6 SQ. FT. |
| TOTAL | = 32,733.1 SQ. FT. |

PROPOSED BUILDINGS (LOT COVERAGE)

| | |
|----------------------------|--------------------|
| NORTH | = 23,550.6 SQ. FT. |
| SOUTH | = 7,977.0 SQ. FT. |
| WEST | = 7,492.0 SQ. FT. |
| WEST GARAGE STAIR BULKHEAD | = 400.0 SQ. FT. |
| TOTAL | = 39,419.6 SQ. FT. |

TOTAL = 72,152.7 SQ. FT. / 189,481.6 LOT AREA (4.349 ACRES)
38.1% PROPOSED < 60% MAXIMUM

UNIT MIX TABLES

EXISTING BUILDINGS UNITS

| TOTAL EXISTING UNITS | | | | | |
|----------------------|----|----|----|----|-------|
| | S | 1B | 2B | 3B | TOTAL |
| | 16 | 62 | 41 | 0 | 119 |

| UNITS TO BE REMOVED | | | | | |
|---------------------|----------|-----------|-----------|----|-----------|
| BLDG. | S | 1B | 2B | 3B | TOTAL |
| E | 0 | 0 | 4 | | 4 |
| A | 2 | 7 | 4 | | 13 |
| B | 0 | 10 | 5 | | 15 |
| D | 0 | 2 | 0 | | 2 |
| SUB TOTAL | 2 | 19 | 13 | | 34 |

| UNITS CONVERTED | | | | | |
|-----------------|--|---|--|--|--|
| | | 1 | | | |

| TOTAL EXISTING UNITS TO REMAIN | | | | | |
|--------------------------------|----|----|----|----|-------|
| | S | 1B | 2B | 3B | TOTAL |
| | 14 | 42 | 28 | 1* | 85 |

* A 3 BEDROOM IS CREATED BY COMBINING TWO EXISTING 1 BR UNITS AND IS INCLUDED IN THE POST-DEMO PARKING CALCULATION.

PROPOSED BUILDINGS UNITS

| UNIT MIX - NORTH BLDG. | | | | | |
|------------------------|---|-----------|-----------|-----------|-----------|
| FLOOR | S | 1B | 2B | 3B | TOTAL |
| 1 | | 8 | 2 | 4 | 14 |
| 2 | | 8 | 3 | 4 | 15 |
| 3 | | 8 | 3 | 4 | 15 |
| 4 | | 8 | 3 | 4 | 15 |
| SUB-TOTAL | | 32 | 11 | 16 | 59 |

| UNIT MIX - SOUTH BLDG. | | | | | |
|------------------------|---|-----------|-----------|----------|-----------|
| FLOOR | S | 1B | 2B | 3B | TOTAL |
| 1 | | 2 | 4 | - | 6 |
| 2 | | 3 | 4 | - | 7 |
| 3 | | 3 | 4 | - | 7 |
| 4 | | 3 | 4 | - | 7 |
| SUB-TOTAL | | 11 | 16 | - | 27 |

| UNIT MIX - WEST BLDG. | | | | | |
|-----------------------|---|----------|-----------|----------|-----------|
| FLOOR | S | 1B | 2B | 3B | TOTAL |
| 1 | | - | 3 | - | 3 |
| 2 | | 1 | 5 | - | 6 |
| 3 | | 1 | 5 | - | 6 |
| SUB-TOTAL | | 2 | 13 | - | 15 |

| | S | 1B | 2B | 3B | TOTAL |
|-------|----|----|----|----|-------|
| TOTAL | 45 | 40 | 16 | | 101 |

TOTAL EXISTING & PROPOSED UNITS

| | S | 1B | 2B | 3B | TOTAL |
|---------------------|-----------|-----------|-----------|-----------|------------|
| TOTAL EX. TO REMAIN | 14 | 42 | 28 | 1 | 85 |
| TOTAL PROPOSED | 0 | 45 | 40 | 16 | 101 |
| GRAND TOTAL | 14 | 87 | 68 | 17 | 186 |

BEDROOM MIX

EXISTING BUILDING (AFTER DEMOLITION)

| | |
|----------------------|--------------|
| S - 14 | |
| 1B - 42 | |
| 2B - 56 (28 x 2) | 115 BEDROOMS |
| 3B - 3 (1 x 3) | |
| TOTAL = 115 BEDROOMS | |

PROPOSED BUILDINGS

| | |
|------------------|--------------|
| NORTH | |
| 1B - 32 | |
| 2B - 22 (11 x 2) | |
| 3B - 48 (16 x 3) | |
| 102 BEDROOMS | |
| SOUTH | |
| 1B - 11 | |
| 2B - 32 (16 x 2) | 173 BEDROOMS |
| 43 BEDROOMS | |
| WEST | |
| 1B - 2 | |
| 2B - 26 (13 x 2) | |
| 28 BEDROOMS | |

TOTAL = 288 BEDROOMS

PARKING CALCULATIONS

REQUIRED PARKING PER UNIT MIX

| | |
|--------------------|---|
| EXISTING BUILDINGS | 14 - STUDIO = x 2 SPACES = 28 SPACES |
| | 42 - 1 BEDROOM = x 2 SPACES = 84 SPACES |
| | 28 - 2 BEDROOM = x 2 SPACES = 56 SPACES |
| | 1 - 3 BEDROOM = x 3 SPACES = 3 SPACES |
| | 85 UNITS = 171 SPACES |

PROPOSED BUILDINGS

| | |
|-----------------------|---|
| NORTH BUILDING | 32 - 1 BEDROOM = x 2 SPACES = 64 SPACES |
| | 11 - 2 BEDROOM = x 2 SPACES = 22 SPACES |
| | 16 - 2 BEDROOM = x 3 SPACES = 48 SPACES |
| | 59 UNITS = 134 SPACES |

| | |
|-----------------------|---|
| SOUTH BUILDING | 11 - 1 BEDROOM = x 2 SPACES = 22 SPACES |
| | 16 - 2 BEDROOM = x 2 SPACES = 32 SPACES |
| | 27 UNITS = 54 SPACES |

| | |
|----------------------|---|
| WEST BUILDING | 2 - 1 BEDROOM = x 2 SPACES = 4 SPACES |
| | 13 - 2 BEDROOM = x 2 SPACES = 26 SPACES |
| | 15 UNITS = 30 SPACES |

101 NEW UNITS 218 NEW SPACES REQUIRED

TOTAL EXISTING & PROPOSED PARKING REQUIRED

| | |
|--------------------|---|
| EXISTING BUILDINGS | 171 SPACES |
| PROPOSED BUILDINGS | 218 SPACES |
| TOTAL REQUIRED | 389 SPACES > 314 PROVIDED (75 SPACES DEFICIENT) |

PARKING PROVIDED BY BUILDING:

| | |
|-----------------|-----------------------|
| NORTH GARAGE | = 116 SPACES |
| SOUTH GARAGE | = 8 SPACES |
| WEST GARAGE | = 150 SPACES |
| MILLBROOK COURT | = 10 SPACES |
| NORTHWEST DRIVE | = 6 SPACES |
| SOUTHWEST DRIVE | = 5 SPACES |
| EX. BLDG. A | = 2 SPACES |
| EX. BLDG. C | = 19 SPACES |
| TOTAL | = 314 SPACES PROVIDED |

REQUIRED H.C. PARKING PER UNIT MIX (INCLUDED IN REQ'D PARKING COUNT)

IBC CODE REQUIREMENT = 2% OF TOTAL UNITS IN A BUILDING

| | |
|----------------|---|
| NORTH BUILDING | 59 UNITS X 2% = 1.18 = 2 H.C. SPACES REQ'D - 2 H.C. SPACES PROVIDED |
| SOUTH BUILDING | 27 UNITS X 2% = .54 = 1 H.C. SPACE REQ'D - 2 H.C. SPACES PROVIDED |
| WEST BUILDING | 15 UNITS X 2% = .3 = 1 H.C. SPACE REQ'D - 2 H.C. SPACES PROVIDED |

4 H.C. SPACES REQ'D 6 H.C. SPACES PROVIDED

REQUIRED PARKING - RATIO CALCULATION

EXISTING CONDITIONS:
119 UNITS
134 SPACES: [(40 NORTH GARAGE SPACES + 22 WEST GARAGE SPACES) = 62 GARAGE SPACES + 72 ON GRADE SPACES]

EXISTING RATIO: 134 SPACES / 119 UNITS = 1.126
119 UNITS - 34 DEMO UNITS = 85 EXISTING UNITS TO REMAIN

REQUIRED PARKING:
85 EXISTING UNITS TO REMAIN x 1.126 = 96 SPACES REQUIRED
218 SPACES REQUIRED
101 NEW UNITS 314 SPACES REQUIRED

ZONING ANALYSIS

VILLAGE OF GREAT NECK
TAX SECT.: 2 TAX BLOCK: 354 TAX LOT(S): 138

RESIDENCE 'E'

| SECTION | DESCRIPTION | COMPLIES(MIDDLE NECK ROAD MULTI-FAMILY INCENTIVE OVERLAY DISTRICT) (MNR-MIO) |
|---------|---|--|
| 575-106 | HEIGHT • MULTI-FAMILY 31 FEET | 4 STORIES/42' - MNR-MIO - COMPLIES |
| 575-107 | LOT SIZE • MINIMUM 20,000 SQ. FT. | 4'-189, 481 SQ. FT. - COMPLIES |
| 575-109 | FLOOR AREA FOR MULTI-FAMILY • MINIMUM UNIT SIZE 600 SQ. FT. | 1 BEDROOM MIN. 750 SF - COMPLIES |
| 575-110 | DENSITY • MAX 43 D.U./ACRE (MULTI-FAMILY) 43 x 4.349 = 187 D.U. | 186/4.349 = 42.8/ACRE - COMPLIES |
| 575-111 | BUILDING AREA (FOOTPRINT) 60% LOT AREA | 72,261.8 SQ. FT./189,481.6 = 38.1% - COMPLIES |
| 575-112 | FRONT YARDS • 15' FROM PROPERTY LINE & 21' FROM CURB | 18' EXISTING, 22'-7" PROPOSED - COMPLIES |
| 575-113 | SIDE YARDS • 10' MINIMUM SIDE YARD | 25'-7" PROPOSED - COMPLIES |
| 575-114 | REAR YARDS • 25' MINIMUM REAR YARD | 29' EXIST - (NO CHANGE) - COMPLIES |
| 575-115 | DISTANCE BETWEEN BUILDINGS • 10' MINIMUM SEPARATION • 2' ENCROACHMENTS WITHIN 10' DISTANCE ALLOWED (NOT LESS THAN 8' FT.) | 0' NEW TO EXISTING (SAME AS EXISTING CONDITIONS) |

| | | |
|-----------------|--|--|
| 575-115.2 | LANDSCAPING BUFFER - PROVIDE | - COMPLIES |
| PARKING 575-155 | PARKING WITH RESIDENCE DISTRICTS MULTI-FAMILY: 2 SPACES/1 BEDROOM & 2 BEDROOM UNITS 3 SPACES/3 BEDROOM OR MORE UNITS TANDEM - ACCEPTABLE WITH BOARD OF TRUSTEE APPROVAL PARKING SPACE SIZE: 9 X 19 MINIMUM 22' DRIVING AISLE | 314 SPACES REQ'D - 314 PROVIDED - COMPLIES (NOTE: 24 TANDEM SPACES PROVIDED) |

WE HEREBY CERTIFY THAT THE PROPOSED DEVELOPMENT COMPLIES WITH THE ZONING REQUIREMENTS IN THE RESIDENCE "E" DISTRICT, EXCEPT WHERE INDICATED IN THE ZONING ANALYSIS.

MITCHELL D. NEWMAN, A.I.A.

NOTE:
APPLICANT TO FILE A STORM WATER POLLUTION PLAN AND NOTICE OF INTENT WITH N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION.

| 05-23-18 | REVISED - ISSUED TO VON WIESSAU COUNTY PLANNING COMMISSION | |
|----------|--|-------------|
| 5/17/18 | REV. | |
| 3/16/18 | REVISED - RE-ISSUED TO V.G.N. | |
| 03-15-18 | REVISED | |
| 05-19-17 | REVISED | |
| 06-03-16 | REVISED | |
| 12-02-16 | REVISED | |
| 11-19-15 | REVISED | |
| 11-13-15 | REVISED | |
| 11-09-15 | REVISED | |
| 10-26-15 | REVISED | |
| 9-04-15 | REVISED | |
| 8-19-15 | REVISED | |
| REV. | DATE | DESCRIPTION |



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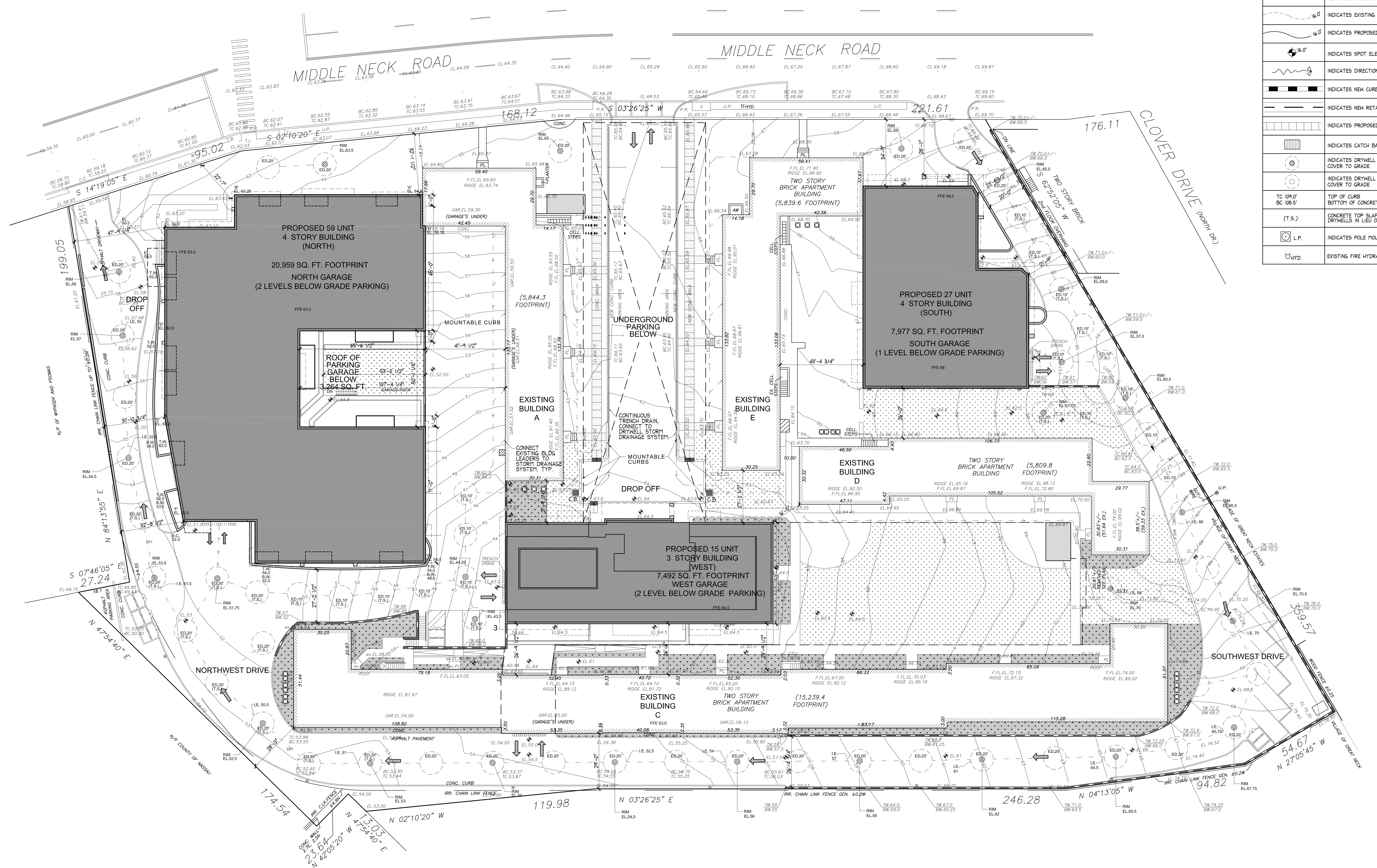
PROJECT:
MILLBROOK APARTMENTS
240-250 MIDDLE NECK ROAD
GREAT NECK, NY 11023

TITLE:
ZONING ANALYSIS

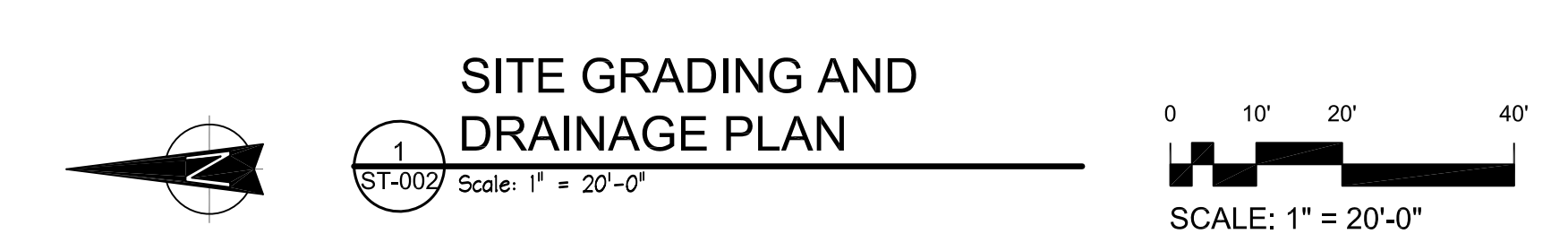
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|--------|-----------------|
| STAMP: | DATE: 08/14/15 |
| | JOB #: 14-43 |
| | DRAWN BY: AG |
| | SCALE: AS NOTED |

DRAWING NO:
Z-001.00

FILE No.: SHEET:



| SITE PLAN LEGEND | |
|------------------|--|
| | INDICATES PROPERTY LINE |
| | INDICATES EXISTING GRADE CONTOUR |
| | INDICATES PROPOSED GRADE CONTOUR |
| | INDICATES SPOT ELEVATION |
| | INDICATES DIRECTION OF SURFACE DRAINAGE |
| | INDICATES NEW CURB |
| | INDICATES NEW RETAINING WALL |
| | INDICATES PROPOSED CONCRETE WALK |
| | INDICATES CATCH BASIN |
| | INDICATES DRYWELL w/ GRATED CAST IRON COVER TO GRADE |
| | INDICATES DRYWELL w/ SOLID CAST IRON COVER TO GRADE |
| | TOP OF CURB BOTTOM OF CONCRETE |
| | CONCRETE TOP SLAB / TRAFFIC TOP FOR DRYWELLS IN LIEU OF DOME |
| | INDICATES POLE MOUNTED LIGHT |
| | EXISTING FIRE HYDRANT |



| REV. | DATE | DESCRIPTION |
|----------|------|---|
| 05-23-18 | | ISSUED TO NORTH HANSAU COUNTY PLANNING COMMISSION |
| 03-5-18 | | REVISED |
| 12-18-17 | | REVISED |
| 07-20-17 | | REVISED |
| 05-19-17 | | REVISED |
| 03-13-17 | | REVISED |
| 03-01-17 | | REVISED |
| 08-03-16 | | REVISED |
| 12-02-16 | | REVISED |
| 11-19-16 | | REVISED |
| 11-13-16 | | REVISED |
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| 10-26-16 | | REVISED |
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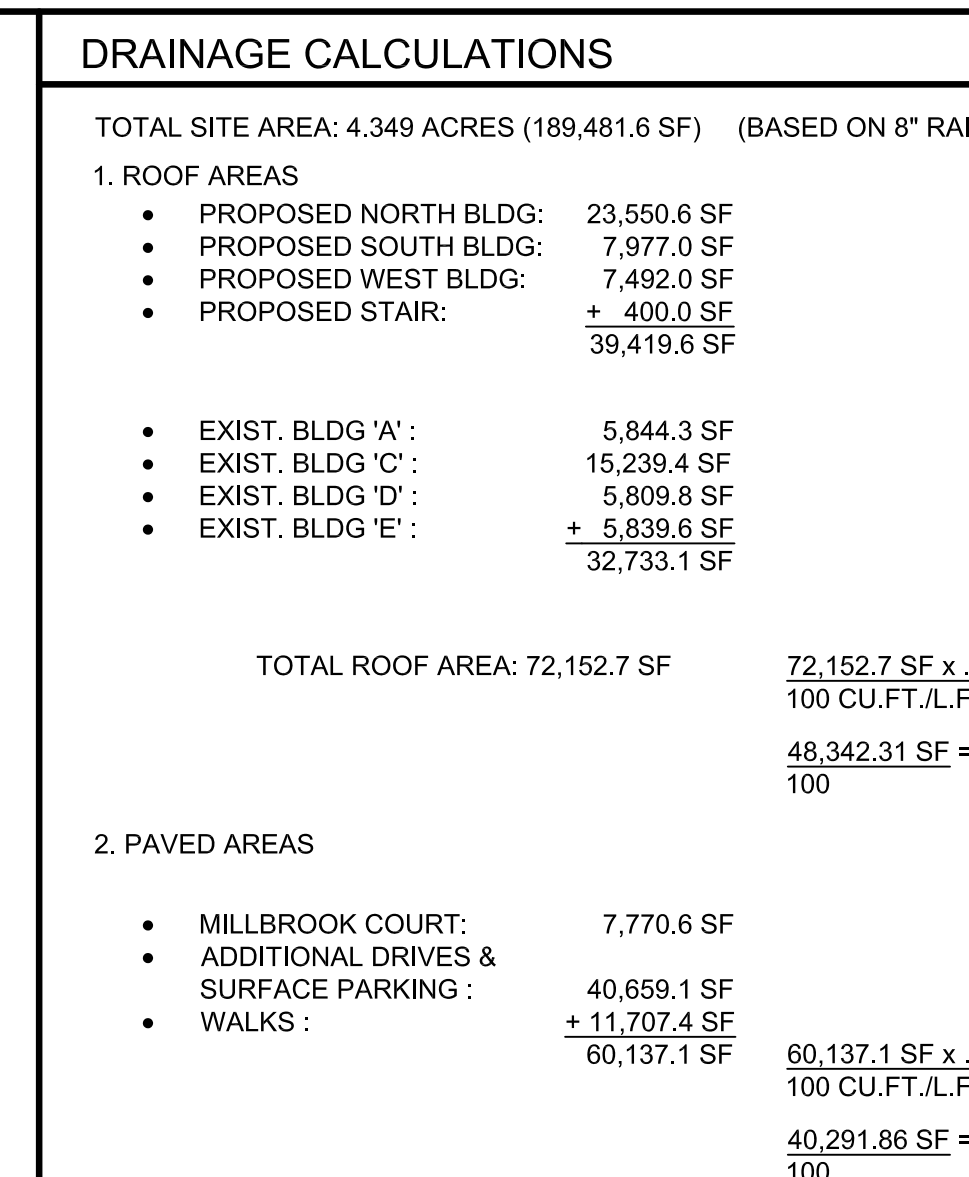
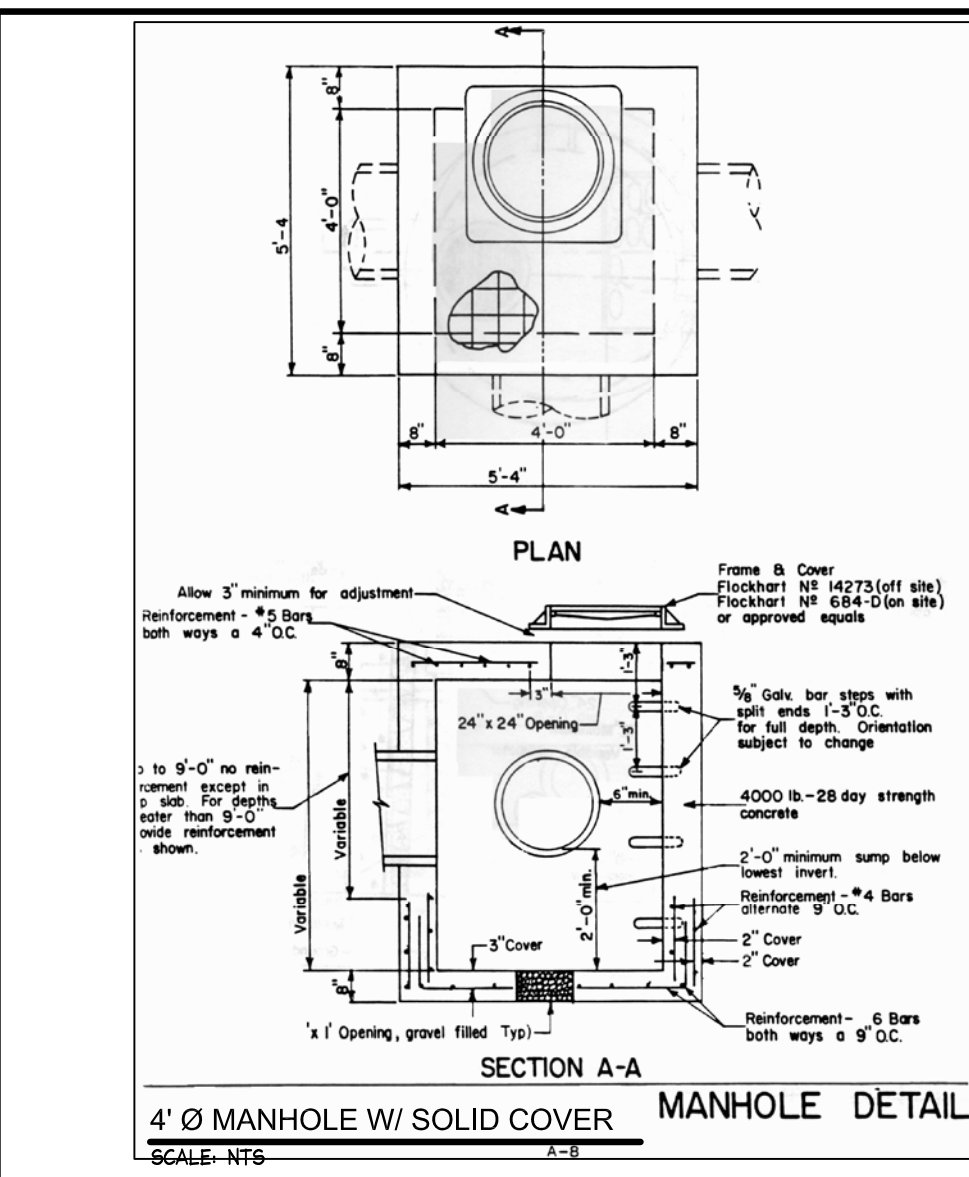
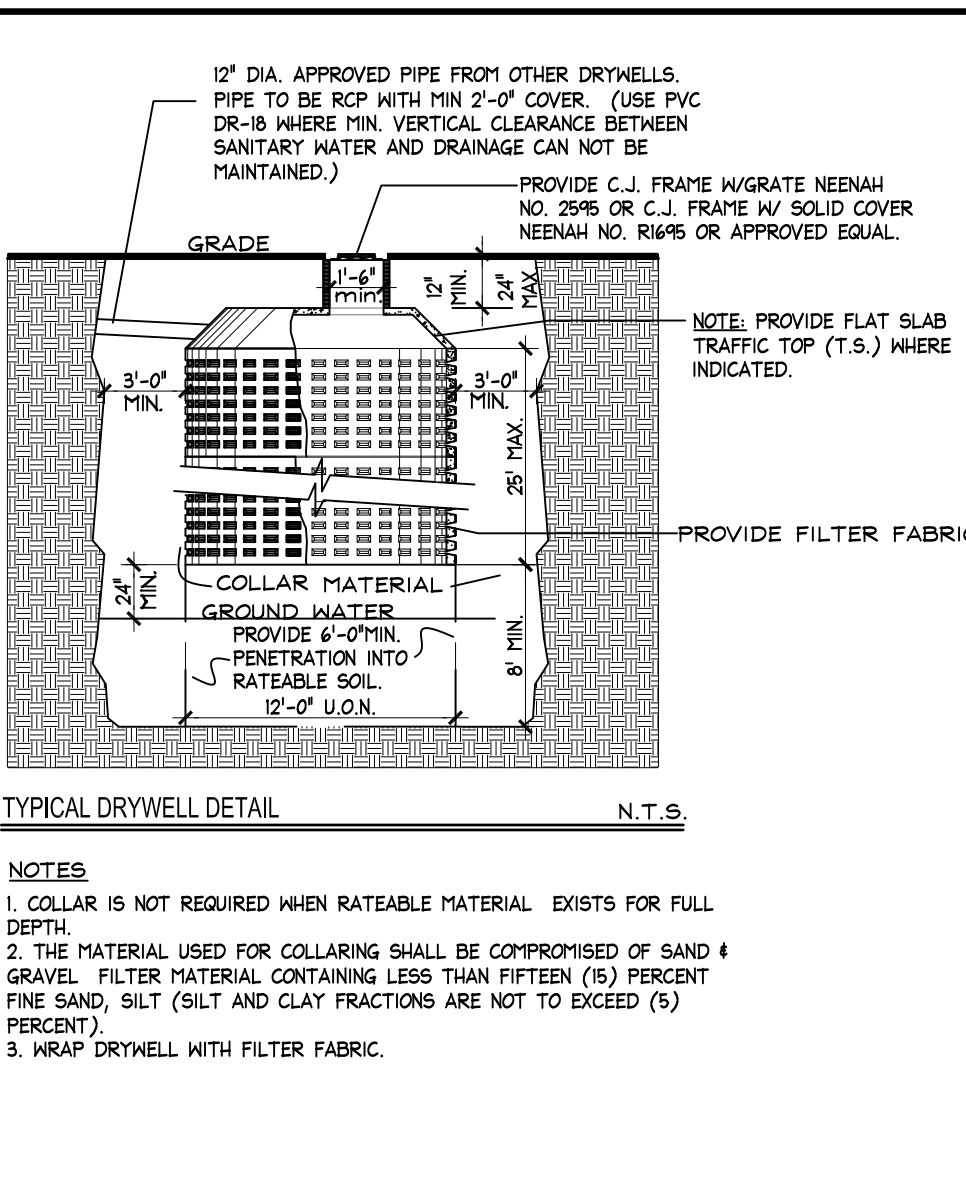
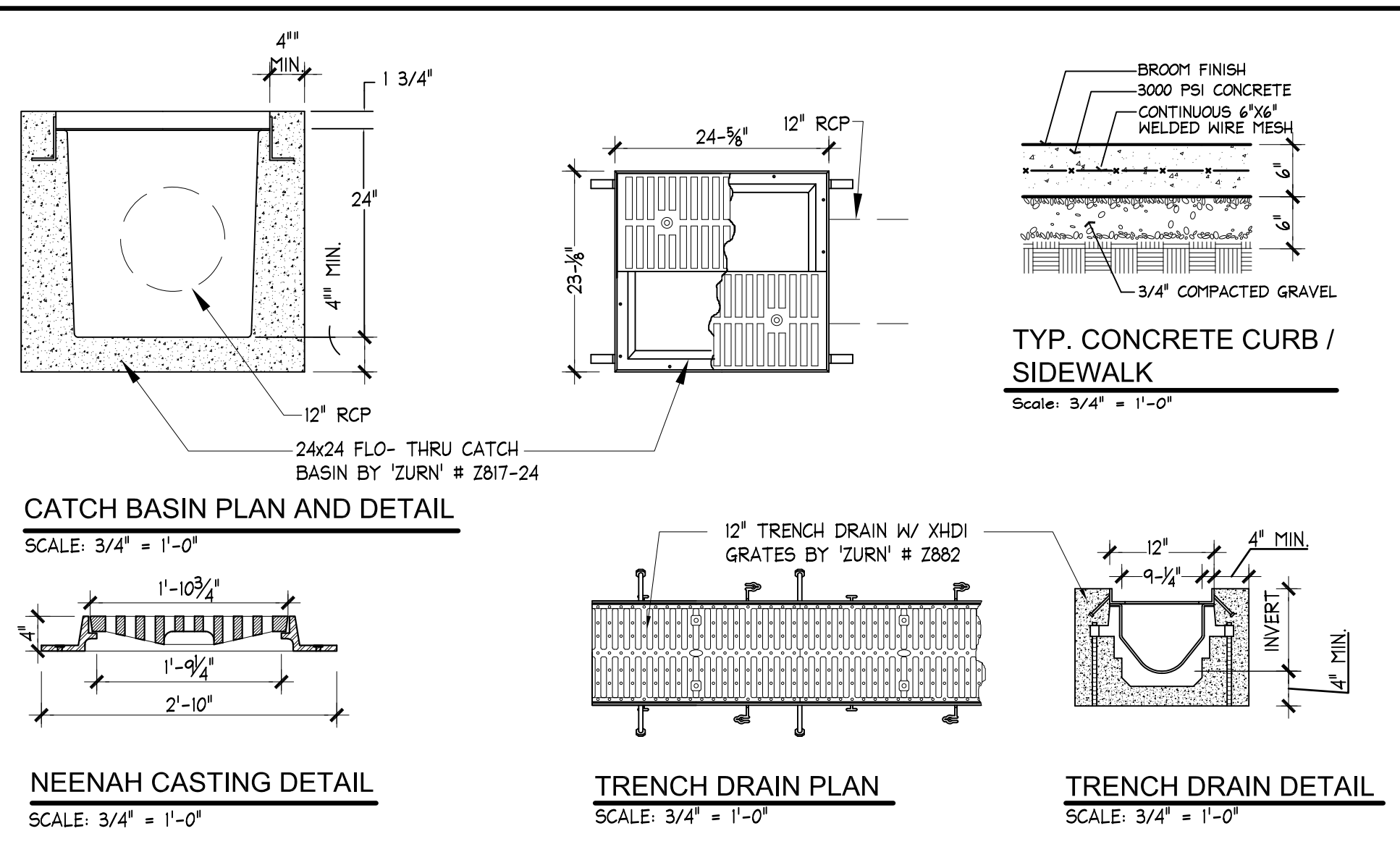
PROJECT:
MILLBROOK APARTMENTS
240-250 MIDDLE NECK ROAD
GREAT NECK, NY 11023

TITLE:
SITE GRADING AND DRAINAGE PLAN AND DETAILS

| | |
|-----------|----------------|
| STAMP: | DATE: 08/14/15 |
| JOB #: | 14-43 |
| DRAWN BY: | AG |
| SCALE: | AS NOTED |

DRAWING NO.: **ST-002**

FILE NO.: SHEET:

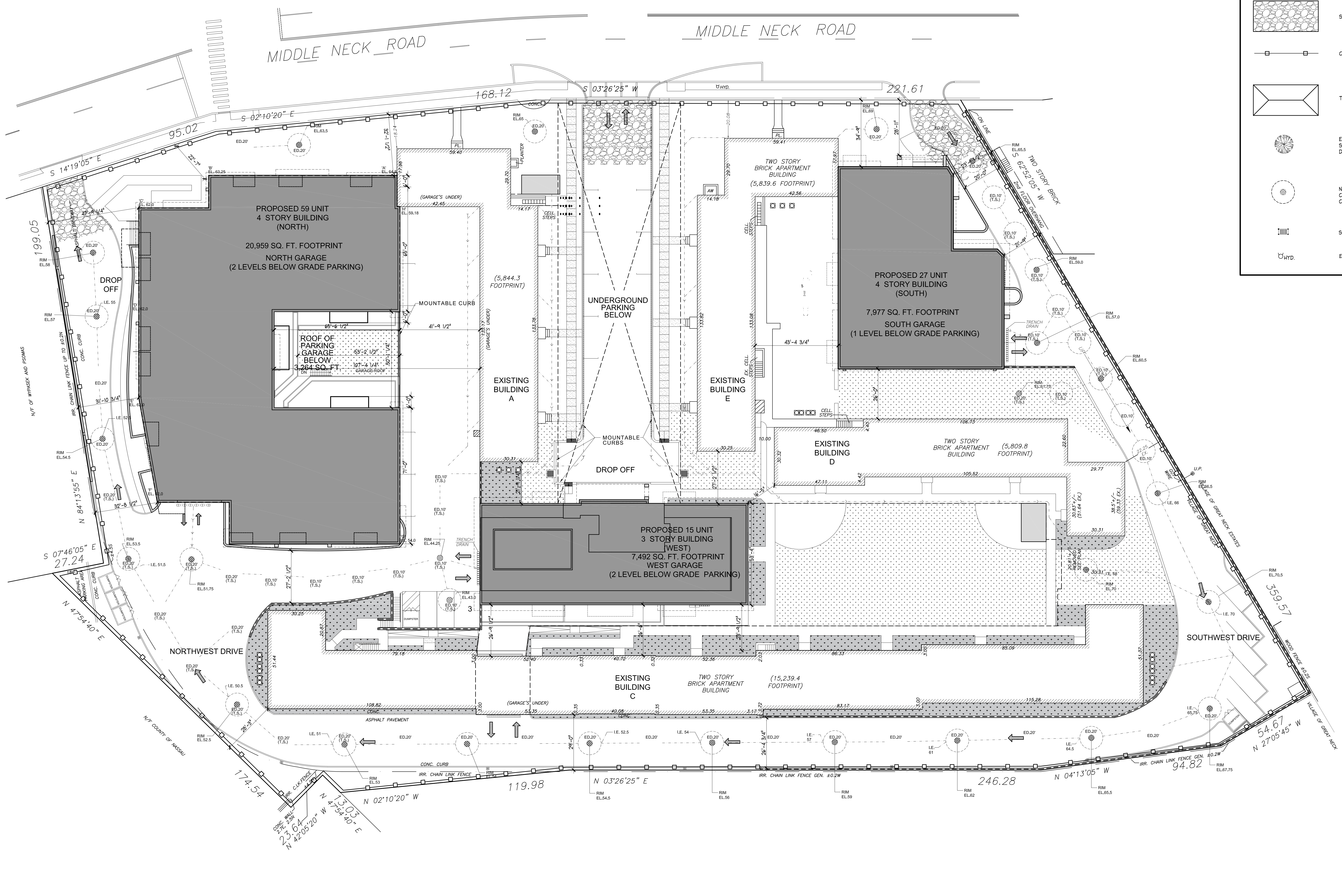


DRAINAGE CALCULATIONS

TOTAL SITE AREA: 4.349 ACRES (189,481.6 SF) (BASED ON 8\"/>

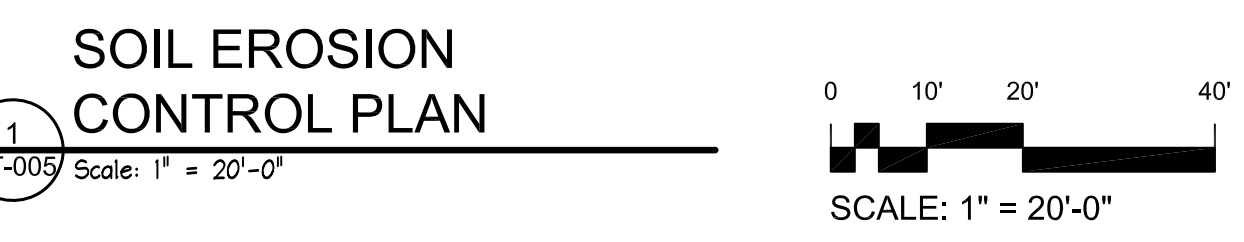
| AREA | AREA (SF) | REQUIREMENTS |
|--|-----------------------------------|--------------|
| 1. ROOF AREAS | | |
| • PROPOSED NORTH BLDG: | 23,550.6 SF | |
| • PROPOSED SOUTH BLDG: | 7,977.0 SF | |
| • PROPOSED WEST BLDG: | 7,492.0 SF | |
| • PROPOSED STAIR: | 400.0 SF | |
| • EXIST. BLDG 'A': | 5,844.3 SF | |
| • EXIST. BLDG 'C': | 15,238.4 SF | |
| • EXIST. BLDG 'D': | 5,809.8 SF | |
| • EXIST. BLDG 'E': | 5,839.6 SF | |
| | 32,733.1 SF | |
| 2. PAVED AREAS | | |
| • MILLBROOK COURT: | 7,770.6 SF | |
| • ADDITIONAL DRIVES & SURFACE PARKING: | 40,859.0 SF | |
| • WALKS: | 11,707.4 SF | |
| | 60,337.0 SF | |
| 3. GRASS AREA = 57,191.8 SF | | |
| | 57,191.8 SF x .67 x .3 | |
| | 100 CU.FT./L.F. (12\"/> | |
| | 11,495.55 SF = 114.96 L.F. REQ'D. | |
| | 100 | |
| TOTAL L.F. REQUIRED = 483.4 L.F. | | |
| | 402.9 L.F. | |
| | + 114.6 L.F. | |
| | 1,020.0 L.F. (12\"/> | |
| PROVIDED = 51 x 20\"/> | | |
| | 1,020.0 L.F. (PROVIDED) | |

NOTE:
- MIN. CLEARANCES: DRYWELL TO DRYWELL 20\"/>



LEGEND:

- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTION FENCE WITH SILT BARRIER
- TOPSOIL/MATERIAL STOCKPILE
- EXISTING TREE TO REMAIN PROVIDE SIGN FENCE TO BE PLACED AT DRIFLINE OF TREE
- NEW DRYWELL WITH OPEN GRATE COVER TO BE USED FOR WATER CONTROL, PROVIDE FILTER FABRIC
- STORM DRAIN INLET FILTER
- EXISTING FIRE HYDRANT



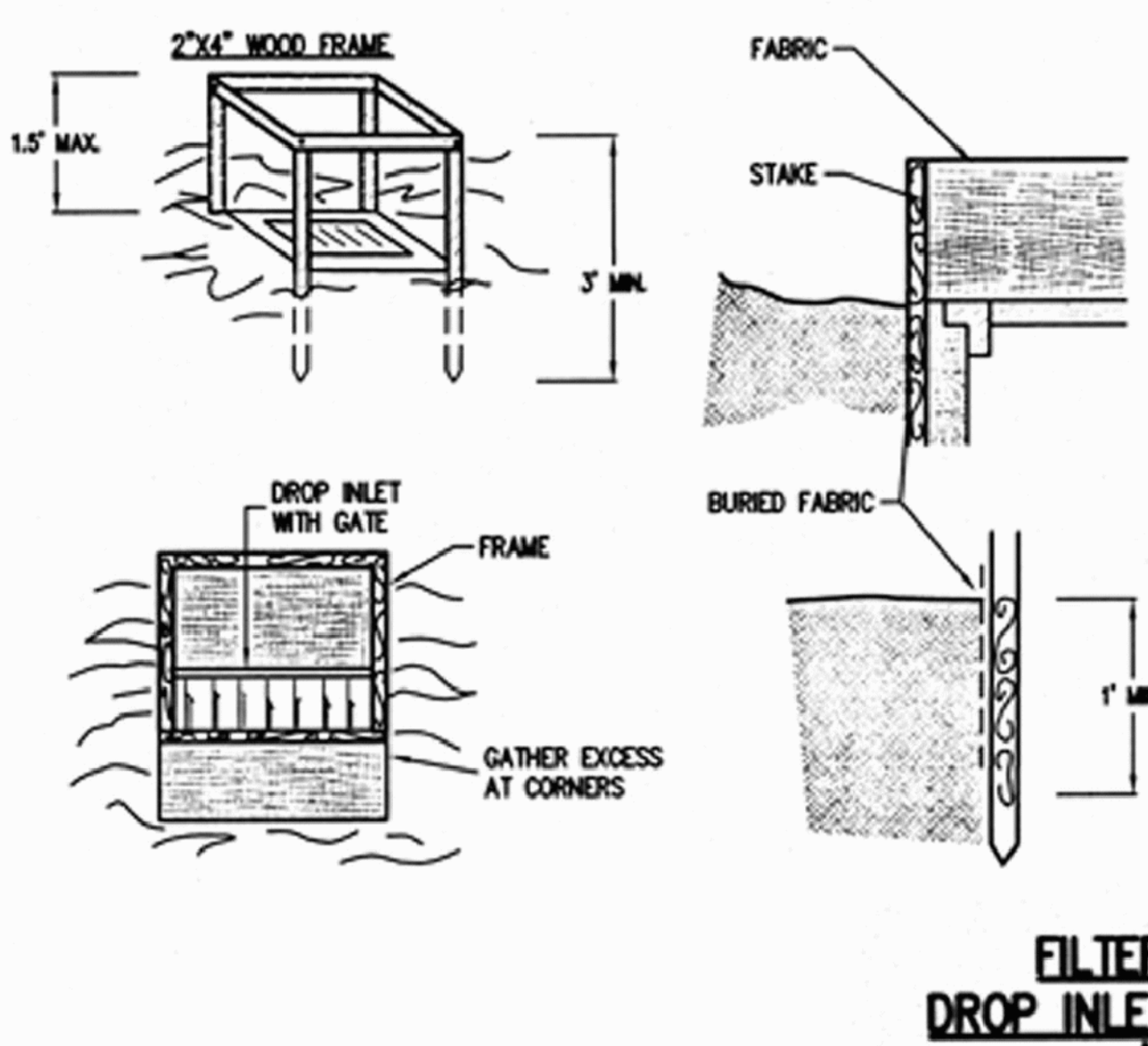
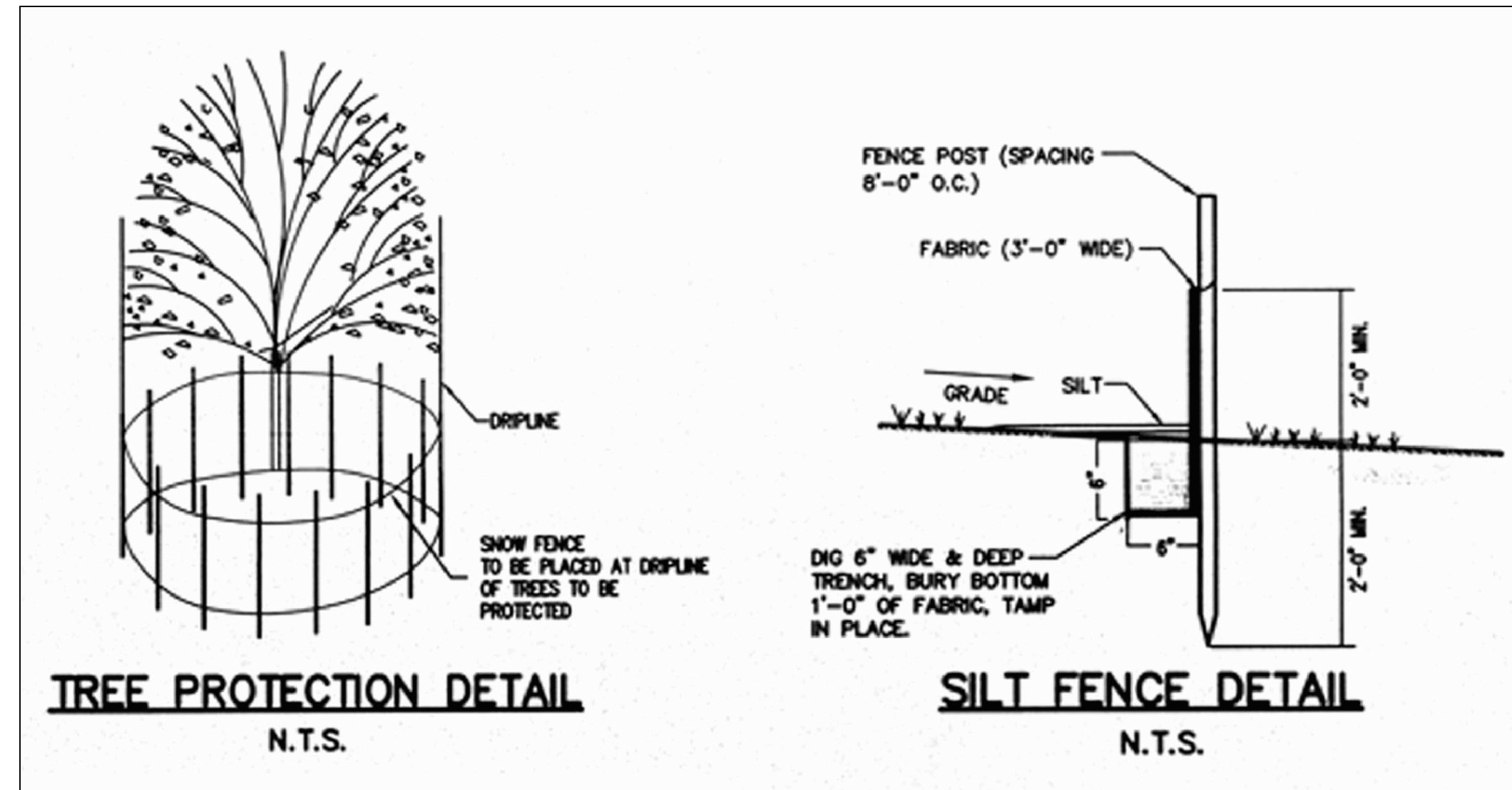
| | |
|-----------|---|
| 05-23-18 | ISSUED TO YORK VAN KASSAUF COUNTY PLANNING COMMISSION |
| 03-5-18 | REVISED |
| 12-18-17 | REVISED |
| 07-20-17 | REVISED |
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| 11-09-16 | REVISED |
| 10-26-16 | REVISED |
| 9-04-16 | REVISED |
| 8-19-16 | REVISED |
| REV. DATE | DESCRIPTION |

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www.ndarchitects.com

PROJECT:
MILLBROOK APARTMENTS
240-250 MIDDLE NECK ROAD
GREAT NECK, NY 11023

TITLE:
SOIL EROSION CONTROL PLAN

| | |
|--------------|----------------|
| STAMP: | DATE: 08/14/15 |
| JOB #: | 14-43 |
| DRAWN BY: | JK |
| SCALE: | AS NOTED |
| DRAWING NO.: | ST-005 |

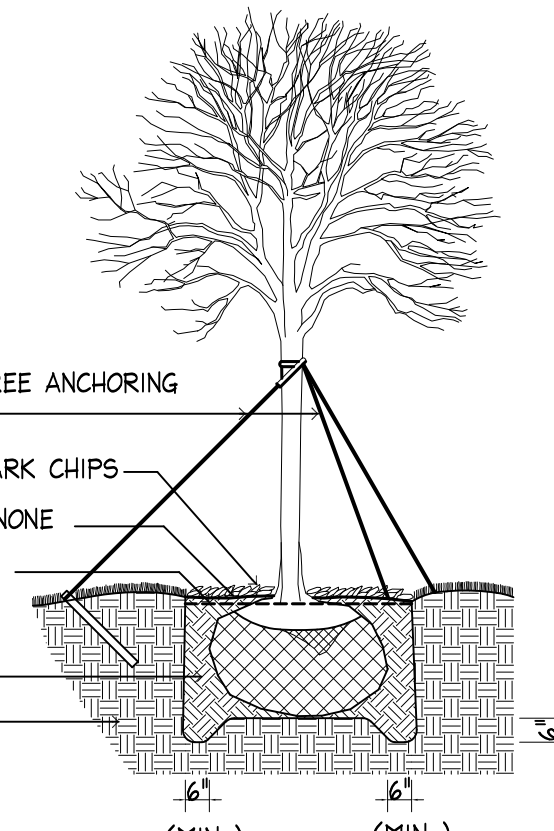


CONSTRUCTION SPECIFICATIONS

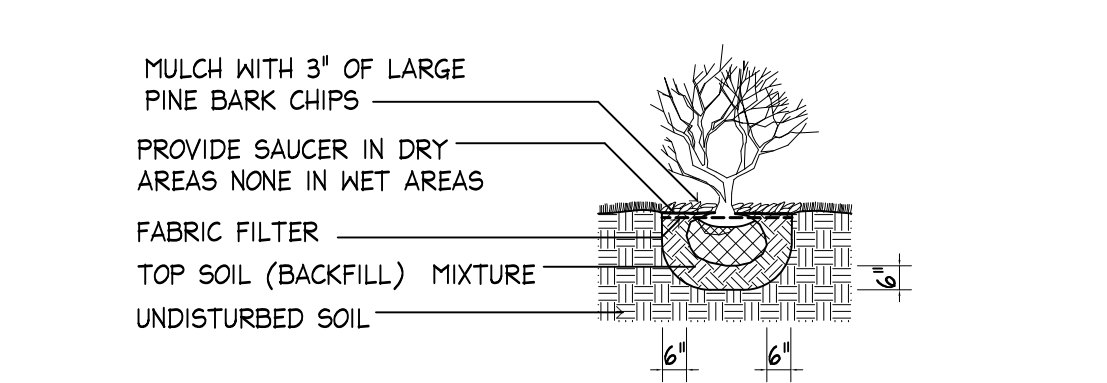
1. FILTER FABRIC SHALL HAVE AN EDS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. OUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPACES GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. MAXIMUM DRAINAGE AREA 1 ACRE.

GENERAL NOTES:

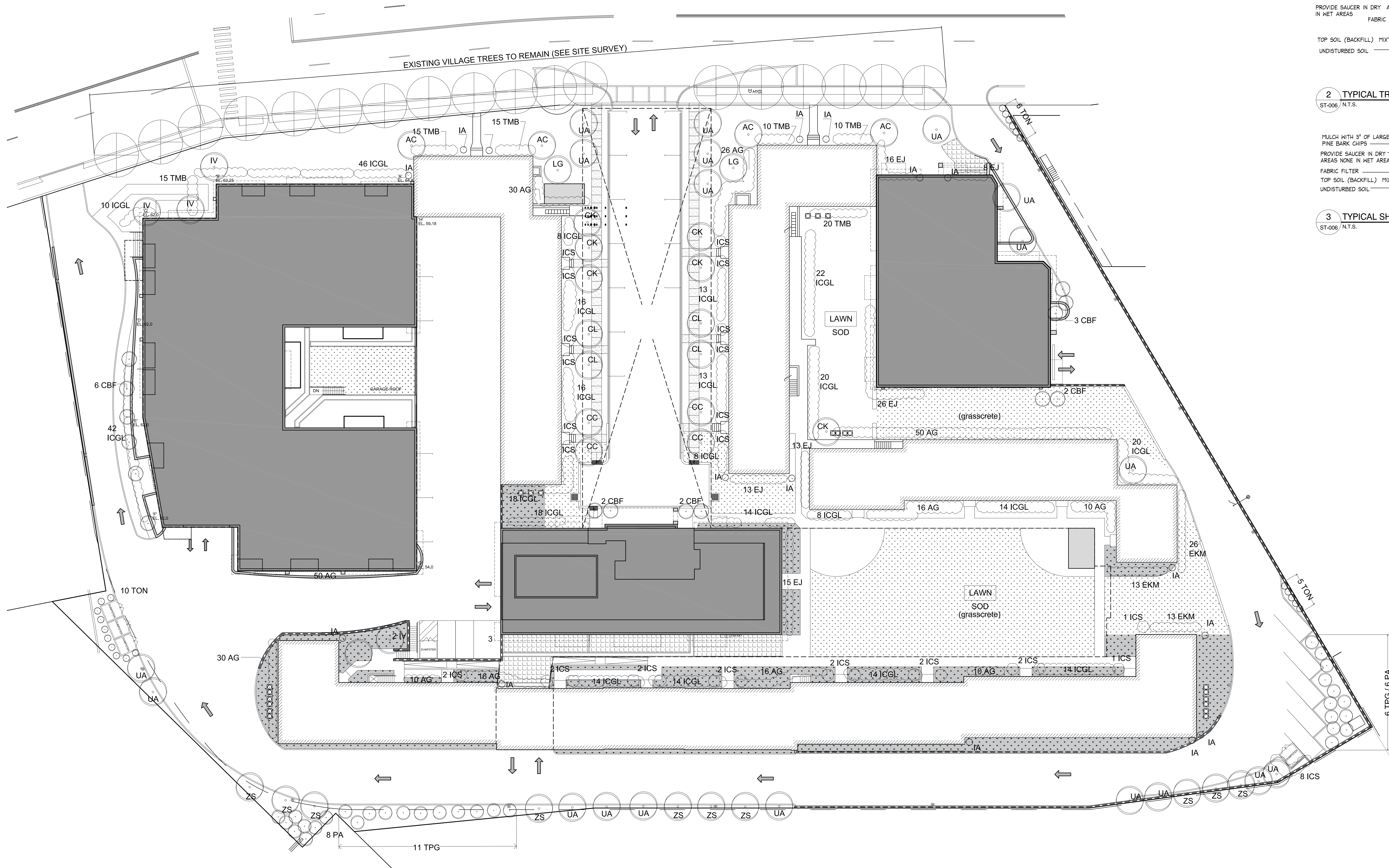
- AN EROSION CONTROL SYSTEM WILL BE UTILIZED BY THE DEVELOPER TO MINIMIZE THE PRODUCTION OF SEDIMENT FROM THE SITE. METHODS TO BE UTILIZED WILL BE THOSE FOUND MOST EFFECTIVE FOR THE SITE AND SHALL INCLUDE ONE OR MORE OF THE FOLLOWING AS APPLICABLE:
1. TEMPORARY SEDIMENTATION ENTRAPMENT AREAS SHALL BE PROVIDED AT KEY LOCATIONS TO INTERCEPT AND CLARIFY SILT LADEN RUNOFF FROM THE SITE. THESE MAY BE EXCAVATED OR MAY BE CREATED UTILIZING EARTHEN BERRYS, RIP-RAP OR CRUSHED STONE DAMS, HAY BALES OR OTHER SUITABLE MATERIALS. DIVERSION SHALES, BERRYS OR CHANNELIZATION SHALL BE CONSTRUCTED TO INSURE THAT ALL SILT LADEN WATERS ARE DIRECTED INTO THE ENTRAPMENT AREAS, WHICH SHALL NOT BE PERMITTED TO FILL IN, BUT SHALL BE CLEANED PERIODICALLY DURING THE COURSE OF CONSTRUCTION. THE COLLECTED SILT SHALL BE DEPOSITED IN AREAS SAFE FROM FURTHER EROSION.
 2. ALL DISTURBED AREAS, EXCEPT ROADWAYS, WHICH WILL REMAIN UNFINISHED FOR MORE THAN 30 DAYS SHALL BE TEMPORARILY SEEDDED WITH 1 LB. OF RYE GRASS OR MULCHED WITH 100 LBS. OF STRAW OR HAY PER 1,000 SQUARE FEET. ROADWAYS SHALL BE STABILIZED AS RAPIDLY AS PRACTICABLE BY THE INSTALLATION OF THE BASE COURSE.
 3. SILT THAT LEAVES THE SITE IN SPITE OF THE REQUIRED PRECAUTIONS SHALL BE COLLECTED AND REMOVED AS DIRECTED BY APPROPRIATE MUNICIPAL AUTHORITIES.
 4. AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY SILTATION DEVICES SHALL BE REMOVED AND THE AFFECTED AREAS REGRADER, PLANTED, OR TREATED IN ACCORDANCE WITH THE APPROVED SITE



2 TYPICAL TREE PLANTING DETAIL
ST-006 / N.T.S.



3 TYPICAL SHRUB PLANTING DETAILS
ST-006 / N.T.S.



LANDSCAPE PLAN
SCALE: 1" = 20'-0"

R.B. IGNATOW
LANDSCAPE
ARCHITECT
91 GREEN STREET
HUNTINGTON,
N.Y. 11743

| | |
|-----------|---|
| 05-23-18 | ISSUED TO VILLAGE OF GREAT NECK PLANNING COMMISSION |
| 03-5-18 | REVISED |
| 12-18-17 | REVISED |
| 07-20-17 | REVISED |
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| 11-13-15 | REVISED |
| 11-09-15 | REVISED |
| 10-26-15 | REVISED |
| 8-04-15 | REVISED |
| REV. DATE | DESCRIPTION |

PROJECT:
MILLBROOK APARTMENTS
240-250 MIDDLE NECK ROAD
GREAT NECK, NY 11023

TITLE:
LANDSCAPE PLAN

STAMP: DATE: 08/19/15
JOB #: 14-43
DRAWN BY: AG, RT
SCALE: AS NOTED

DRAWING NO:
ST-006

FILE NO.: SHEET:

PLANTING SCHEDULE:

| TREES | | | | | SHRUBS | | | | |
|-----------------------|------|-----------------------------|------------------------------|-------------------------|--------|------|-----------------------|------------------|-------------------------|
| SYM. | QTY. | BOTANICAL NAME | COMMON NAME | SIZE/ SP. | SYM. | QTY. | BOTANICAL NAME | COMMON NAME | SIZE/ SP. |
| AC | 4 | AMELANCHIER CANADENSIS | SHADBUSH SERVICEBERRY | 8-10' HT. | AG | 264 | ABELIA GRANDIFOLIA | GLOSSY ABELIA | 18 - 24' SP. - 4' O.C. |
| CBF | 15 | CARPINUS BETULUS FASTIGIATA | PYRAMIDAL EUROPEAN HORNBERRY | 3 - 3 1/2' CAL 20' O.C. | ZS | 10 | ZELKOVA SERRATA | JAPANESE ZELKOVA | 3 - 3 1/2' CAL 20' O.C. |
| IA | 13 | ILEX AQUIFOLIUM | SAN JOSE HOLLY | 6-8' HT. | CC | 4 | CERCIS CANADENSIS | REDBUD | 10-12' HT. |
| IV | 5 | ILEX VERTICILLATA | HINTERBERRY | 10-12' HT. - 15' O.C. | CK | 6 | CORNUS KOUSA | KOUSA DOGWOOD | 8-10' HT. |
| PA | 14 | PICEA ABIES | NORWAY SPRUCE | 6-8' HT. - 10' O.C. | CL | 4 | CRATAEGUS LAVALLEI | LAVALLE HAWTHORN | 8-10' HT. |
| TON | 21 | THUJA OCCIDENTALIS NIGRA | DARK AMERICAN ARBORVITAE | 8-10' HT. - 5' O.C. | LG | 2 | LAGERSTROEMIA ARAPIHO | RED CRAPE MYRTLE | 10-12' HT. |
| TPG | 17 | THUJA PLICATA GREEN GIANT | WESTERN ARBORVITAE | 10-12' HT. - 10' O.C. | | | | | |
| TOTAL NEW TREES = 184 | | | | | | | | | |

HYDROSEED 'A' @ 170#/AC.
(ECOLOGY MIX)

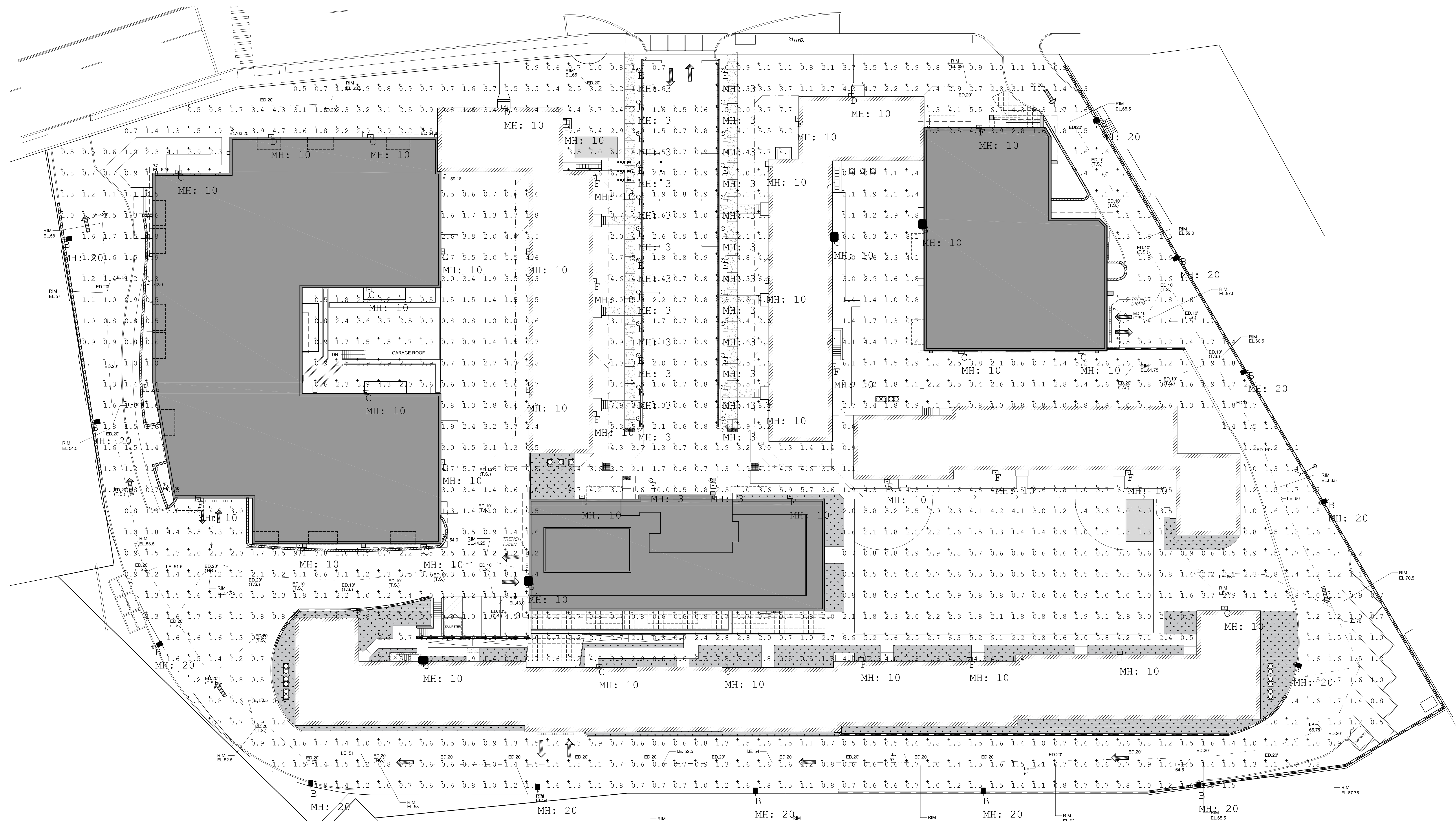
80% RELIANT HARD FESCUE
20% JAMESTOWN II CHEWINGS FESCUE

LEGEND:

| SYMBOL | DESCRIPTION |
|--------|---------------------------|
| | EXISTING TREES TO REMAIN |
| | PROPOSED TREES |
| | PROPOSED SHRUBS |
| | EXISTING SHRUBS TO REMAIN |

NOTES:

- ALL PLANT MATERIAL GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY OWNER.
- ALL PLANTING BEDS TO BE MULCHED WITH 2" OF SHREDDED BARK.
- ALL PLANTING BEDS TO RECEIVE 4" OF SCREENED TOPSOIL PRIOR TO PLANT INSTALLATION.
- NO PLANT MATERIAL, EXCEPT LAWN OR GROUND COVER, IS TO BE LOCATED WITHIN 2'-0" OF ANY PARKING LOT CURBS.
- LANDSCAPING SHALL BE PLANTED AND MAINTAINED IN COMPLIANCE WITH THE VILLAGE OF GREAT NECK SUBDIVISION REGULATIONS AND SITE IMPROVEMENT SPECIFICATIONS AND ADDENDUM.
- THERE SHALL BE NO PLANT SUBSTITUTIONS UNLESS AUTHORIZED BY STAFF OF THE VILLAGE OF GREAT NECK PLANNING AND ENVIRONMENTAL DEPARTMENT.
- ALL DECIDUOUS TREES TO BE SECURED WITH TWO 3" DIA. CEDAR STAKES, 180 DEGREES APART. ALL ROPES AND WIRES SURROUNDING ROOT BALL TO BE REMOVED PRIOR TO BACK FILLING OF TREE PIT. TREE TRUNK WRAP TO BE REMOVED.
- NO TREES TO BE LOCATED WITHIN 10'-0" OF DRYWELLS WALLS OR PIPING AND DRAINAGE STRUCTURES AS PER THE VILLAGE OF GREAT NECK STANDARDS.
- ALL PROPOSED STREET TREES TO BE LIMBED UP TO A HEIGHT OF 7'-0" TO AVOID ANY INTERFERENCE WITH PEDESTRIAN MOVEMENTS ALONG PROPOSED SIDEWALKS.
- PLANTING OF STREET TREES AND OTHER PLANT MATERIAL MUST BE UNDER THE SUPERVISION OF A GRADUATE LANDSCAPE ARCHITECT. THE DEVELOPER MUST SUPPLY THE VILLAGE ENGINEER WITH THE AFFIDAVIT OF THE GRADUATE LANDSCAPE ARCHITECT STATING THAT THE QUALITY, VARIETY, SIZE OF PLANTS AND PLANTING PROCEDURES CONFORM TO THE SPECIFICATIONS OF THE VILLAGE OF GREAT NECK.



| Symbol | Label | Qty | Lum. Watts | Lum. Lumens | LLF | Arrangement | Description |
|----------|-------|-----|------------|-------------|-------|-------------|---------------------|
| [Symbol] | B | 13 | 56 | 5831 | 1.000 | SINGLE | CL18-32L-4K-3-053 |
| [Symbol] | C | 10 | 40.3 | 4502 | 0.850 | SINGLE | LMC4-36L-4K-035-4-U |
| [Symbol] | D | 7 | 40.3 | 4631 | 0.850 | SINGLE | LMC4-36L-4K-035-3-U |
| [Symbol] | E | 26 | 26.8 | 654 | 0.850 | SINGLE | FW1-12LU-4K-KK |
| [Symbol] | F | 20 | 80 | 7424 | 0.850 | SINGLE | LMC4-36L-4K-065-4-U |
| [Symbol] | G | 4 | 80 | 7404 | 0.850 | SINGLE | LMC4-36L-4K-065-3-U |

| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
|-----------|-------------|-------|------|------|-----|---------|---------|
| Drive Way | Illuminance | Fc | 2.09 | 14.3 | 0.5 | 4.18 | 28.60 |

Notes:
 Calculation Grid (10ft x 10ft) @ Ground Level.
 Luminaire Mounting height is noted on each Luminaire Label.



CIMARRON LED CL18

Product Information, Specifications, and Ordering Information for Cimarron LED CL18 luminaires.

LITEPAK SERIES LMCA

Product Information, Specifications, and Ordering Information for Litepak Series LMCA luminaires.

LITEPAK SERIES LMCA

Product Information, Specifications, and Ordering Information for Litepak Series LMCA luminaires.

FRESNO SERIES

Product Information, Specifications, and Ordering Information for Fresno Series luminaires.

LITEPAK SERIES LMCA

Product Information, Specifications, and Ordering Information for Litepak Series LMCA luminaires.

LITEPAK SERIES LMCA

Product Information, Specifications, and Ordering Information for Litepak Series LMCA luminaires.

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| 9-04-16 | | REVISED |
| 8-19-15 | | REVISED |

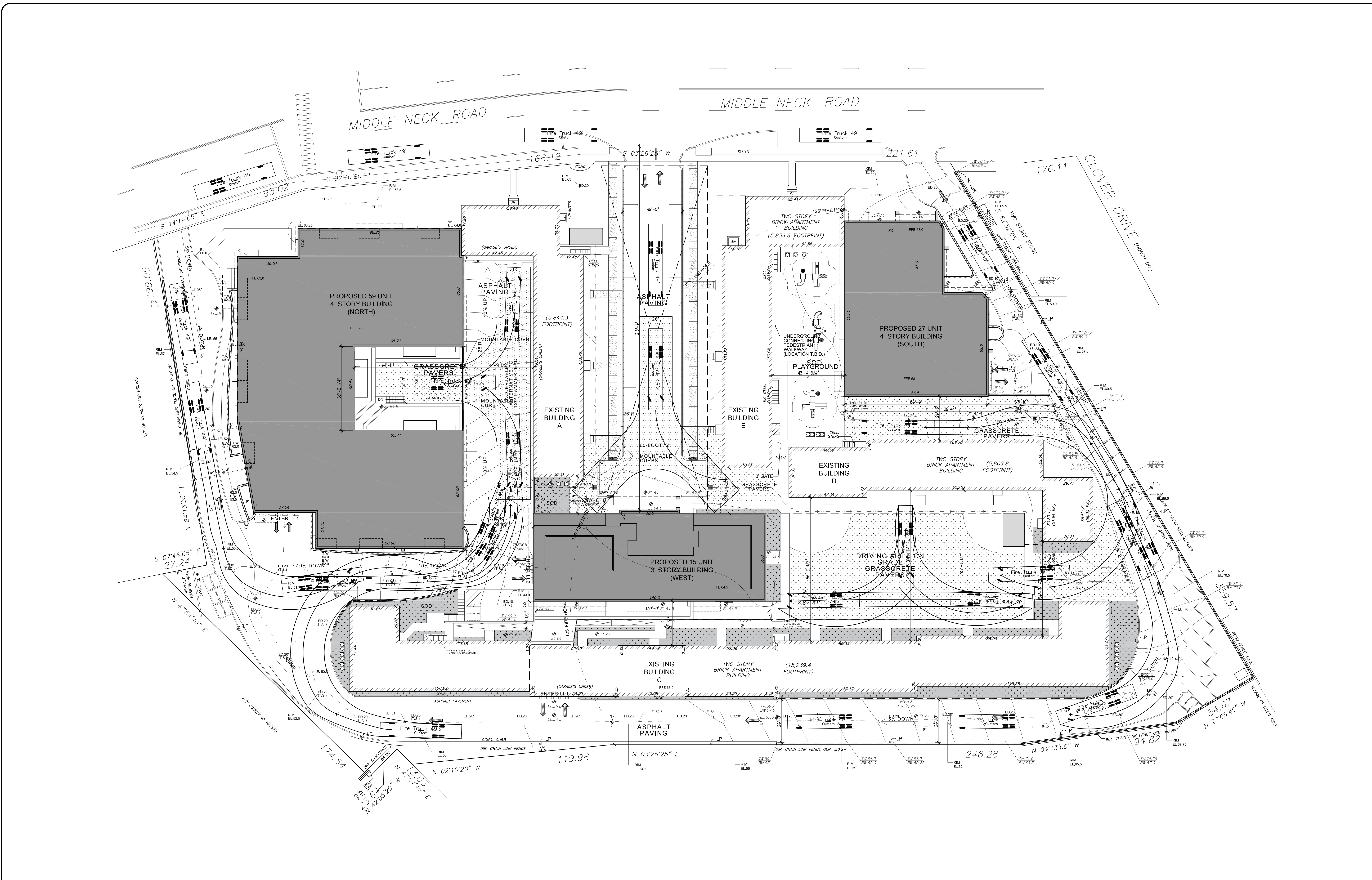
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PROJECT:
MILLBROOK APARTMENTS
 240-250 MIDDLE NECK ROAD
 GREAT NECK, NY 11023

TITLE:
PHOTOMETRIC PLAN

STAMP: DATE: 08/14/15
 JOB #: 14-43
 DRAWN BY: AG
 SCALE: AS NOTED
 DRAWING NO.: **ST-003**

FILE No.: SHEET:



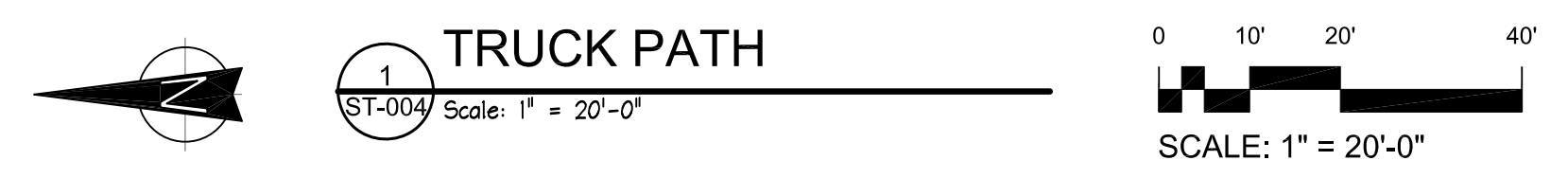
| 05-23-16 | ISSUED TO VGN and NASSAU COUNTY PLANNING COMMISSION |
|------------|---|
| 03-5-16 | REVISED |
| 02-07-16 | REVISED PER NCFM COMMENTS |
| 12-18-17 | REVISED |
| 07-20-17 | REVISED |
| 05-19-17 | REVISED |
| 03-13-17 | REVISED |
| 03-01-17 | REVISED |
| 08-03-16 | REVISED |
| 1-26-16 | REVISED PER NCFM COMMENTS |
| 12-22-15 | REVISED |
| 11-19-15 | REVISED |
| 11-13-15 | REVISED |
| 11-09-15 | REVISED |
| 10-26-15 | REVISED |
| 9-25-15 | REVISED |
| 9-24-15 | REVISED |
| 9-21-15 | REVISED |
| 9-17-15 | REVISED |
| 9-04-15 | REVISED |
| 8-19-15 | REVISED |
| REV. DATE | DESCRIPTION |
| REVISIONS: | |

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PROJECT:
MILLBROOK APARTMENTS
240-250 MIDDLE NECK ROAD
GREAT NECK, NY 11023

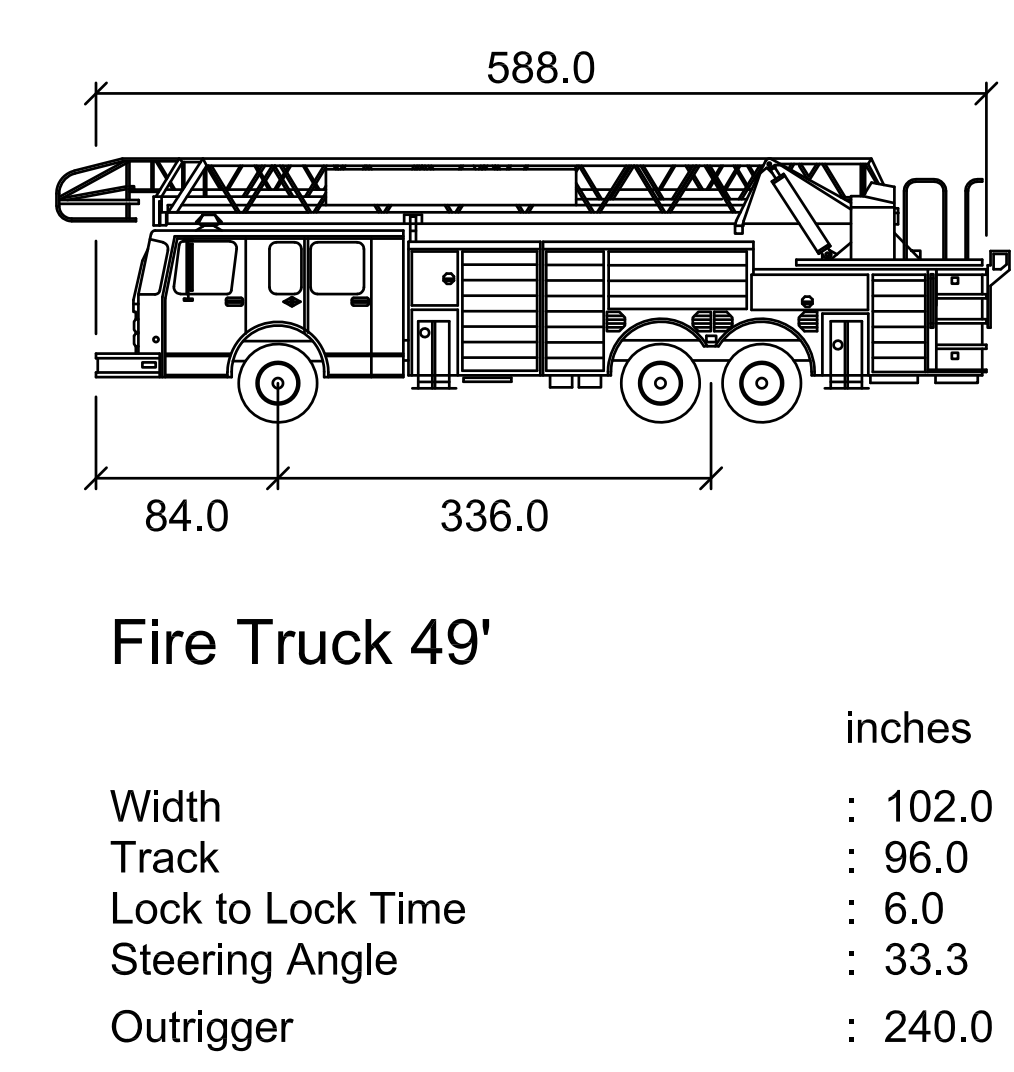
TITLE:
FIRE TRUCK ACCESS PATH

| | |
|--------------|----------------|
| STAMP: | DATE: 08/14/15 |
| JOB #: | 14-43 |
| DRAWN BY: | JK |
| SCALE: | AS NOTED |
| DRAWING NO.: | ST-004 |
| FILE No.: | SHEET: |



LEGEND

| | |
|--|------------------------------|
| | EXISTING HYDRANT |
| | GRASSCRETE PAVERS |
| | FIRE HOSE (125' W 20' SPRAY) |



Grasscrete
Grass reinforcement
Occasionally confused with pre-cast blocks
Grasscrete is in fact a cast in site cellular reinforced concrete system with voids created by styrene void formers

This type of construction offers significant structural advantages over precast concrete and plastic systems

- load bearing up to 40 tonnes gross vehicle weight
- resists differential settlement
- reduces sub-base depths
- eliminates hard edges
- no reliance on grates for stability
- optimum drainage capability

The lightweight nature of the Grasscrete former moulds enables us to ship economically throughout the world.

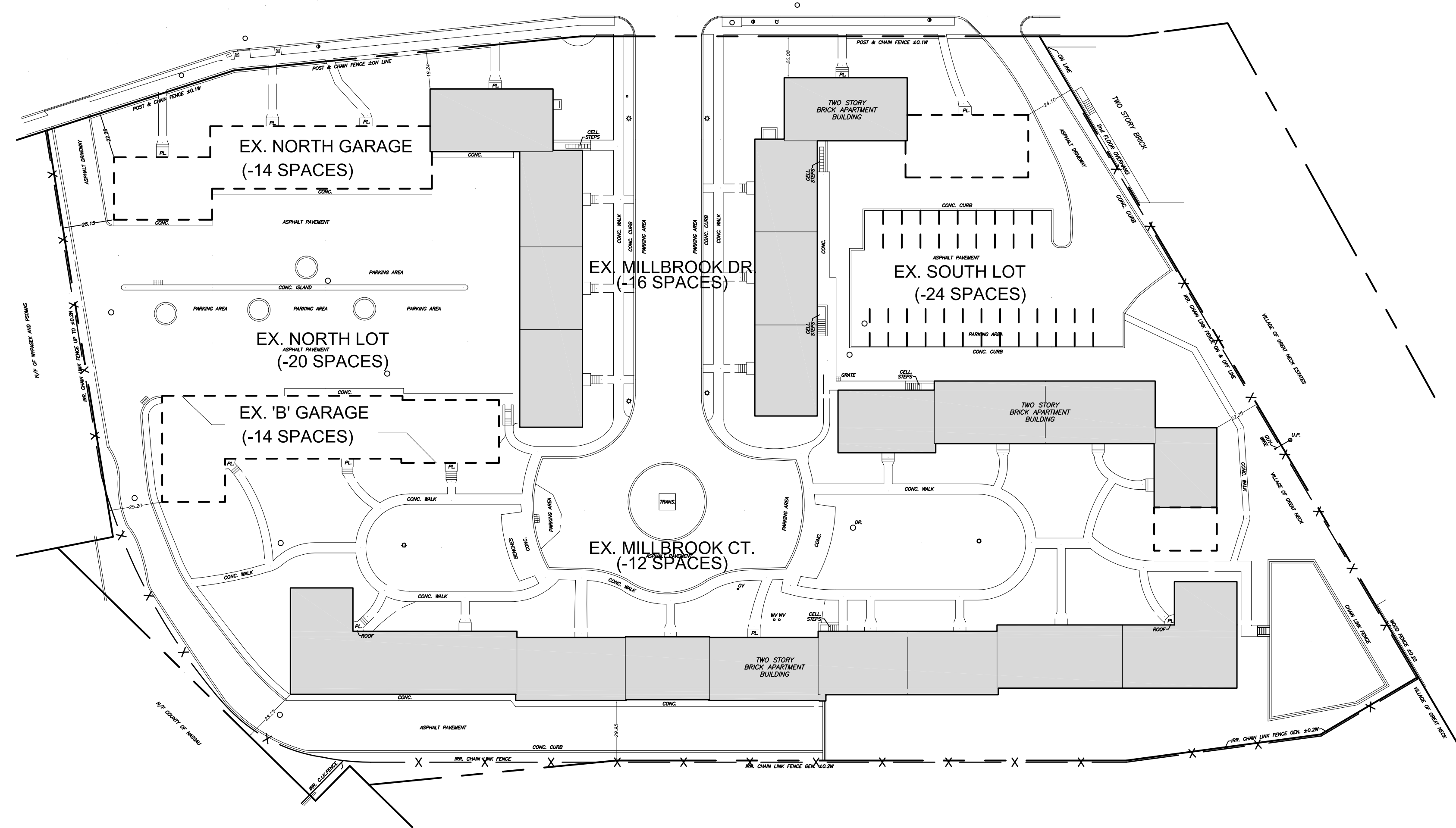
Typical traffic related applications for Grasscrete can include:

- vehicle parking for daily or overnight use
- emergency access
- maintenance access
- highway verges and gutters

In addition to its ability to withstand traffic loads, Grasscrete is also massively used for projects in the water environment. Tested to flow rates in excess of 8 metres per second, this self-venting paving system is ideal for arrounding the following:

- reservoirs
- spillways
- drainage channels
- river and sea defences
- swales

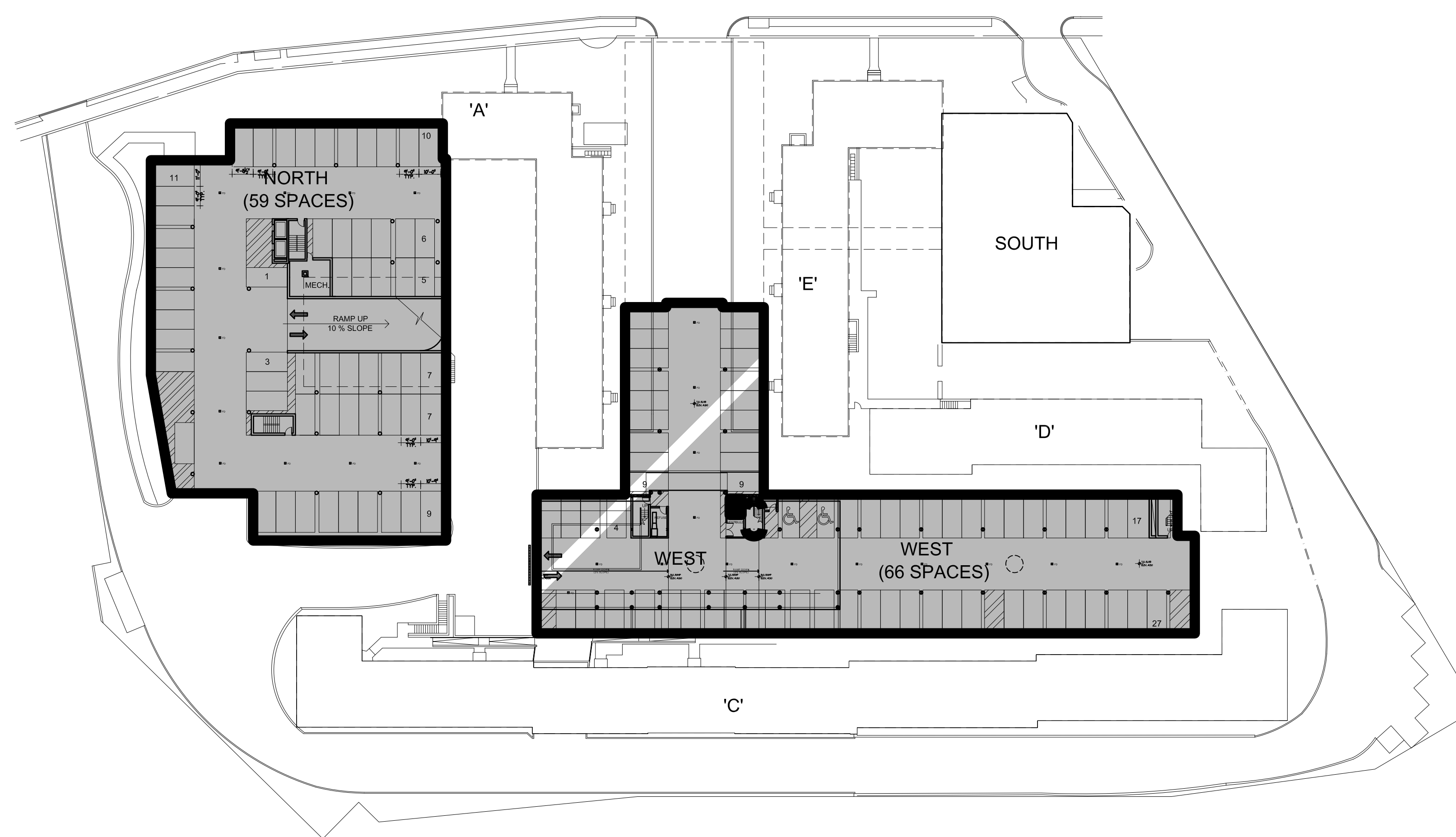
When combined with its ability to withstand traffic, Grasscrete has a unique position in the field of Water Engineering



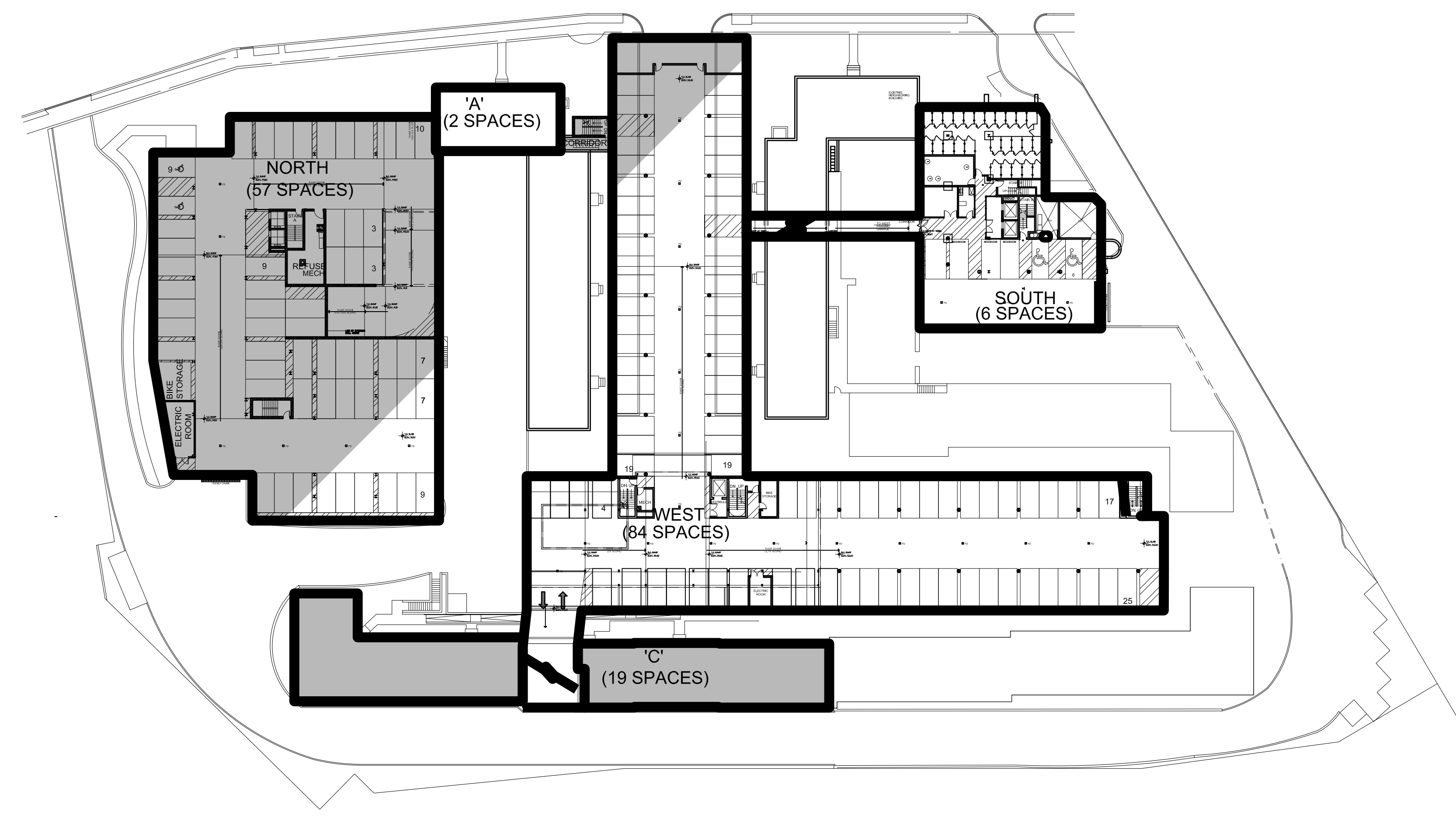
PARKING SPACES LOST

| | |
|---------------------|---------------------|
| EX. MILLBROOK COURT | = 12 SPACES |
| EX. MILLBROOK DRIVE | = 16 SPACES |
| EX. NORTH LOT | = 20 SPACES |
| EX. NORTH GARAGE | = 14 SPACES |
| EX. SOUTH LOT | = 24 SPACES |
| EX. 'B' GARAGE | = 14 SPACES |
| EX. 'A' GARAGE | = 10 SPACES |
| EX. 'C' GARAGE | = 3 SPACES |
| TOTAL LOST | = 113 SPACES |

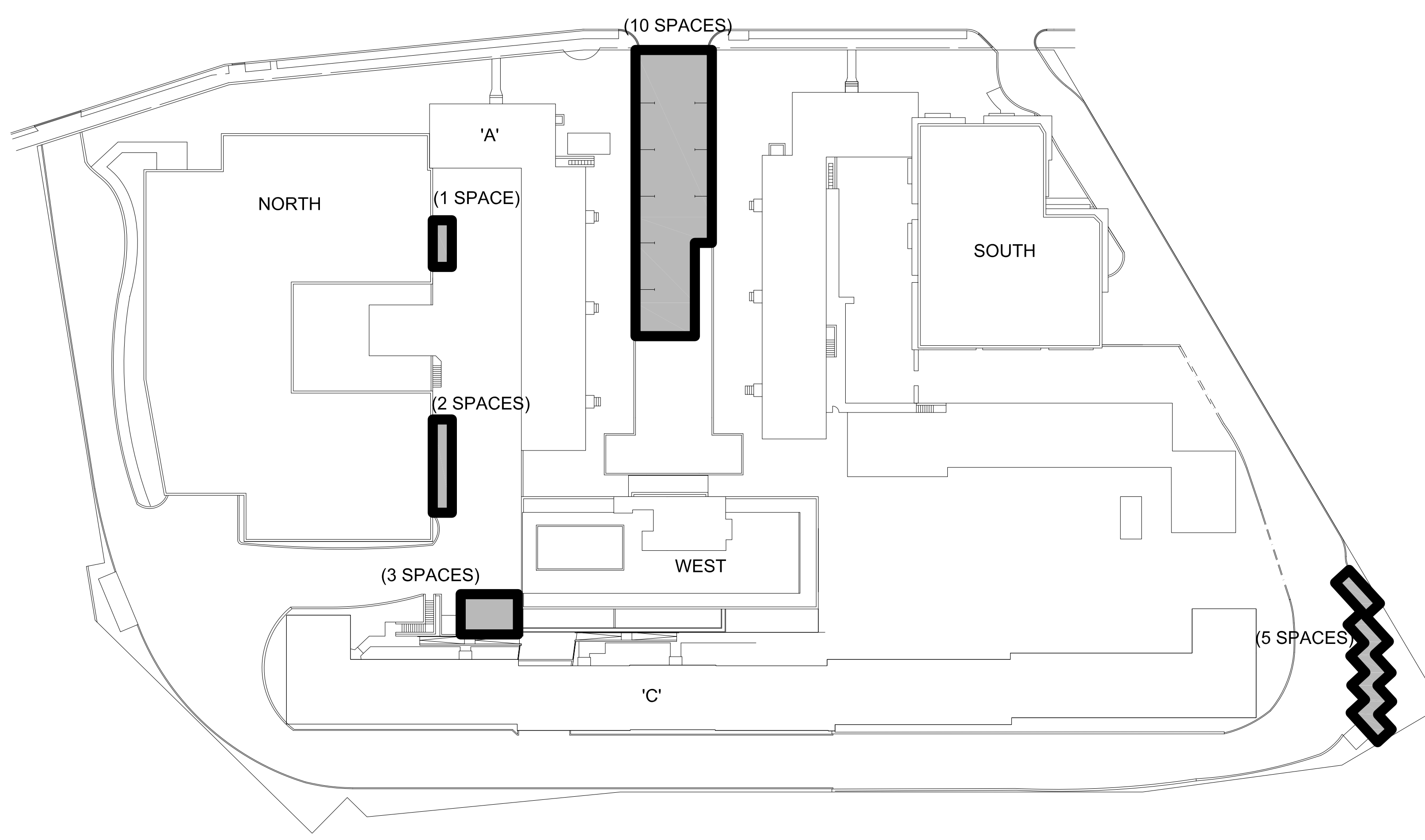
1 ON GRADE PARKING DEMO PLAN
Scale: 1" = 40'-0"
SCALE: 1" = 40'-0"



2 LOWER LEVEL II PARKING
Scale: 1" = 40'-0"
(125 SPACES)
SCALE: 1" = 40'-0"



3 LOWER LEVEL I PARKING
Scale: 1" = 40'-0"
(168 SPACES)
SCALE: 1" = 40'-0"



4 ON GRADE PARKING
Scale: 1" = 40'-0"
(21 SPACES)
SCALE: 1" = 40'-0"

PARKING PROVIDED BY BUILDING:

| | |
|-----------------|------------------------------|
| NORTH GARAGE | = 116 SPACES |
| SOUTH GARAGE | = 6 SPACES |
| WEST GARAGE | = 150 SPACES |
| MILLBROOK COURT | = 10 SPACES |
| NORTHWEST DRIVE | = 6 SPACES |
| SOUTHWEST DRIVE | = 5 SPACES |
| EX. BLDG. A | = 2 SPACES |
| EX. BLDG. C | = 19 SPACES |
| TOTAL | = 314 SPACES PROVIDED |

PARKING PROVIDED BY LEVEL:

| | |
|--------------|------------------------------|
| LLII | = 59 + 66 = 125 |
| LLI | = 2 + 57 + 19 + 84 + 6 = 168 |
| ON GRADE | = 10 + 5 + 6 = 21 |
| TOTAL | = 314 SPACES PROVIDED |

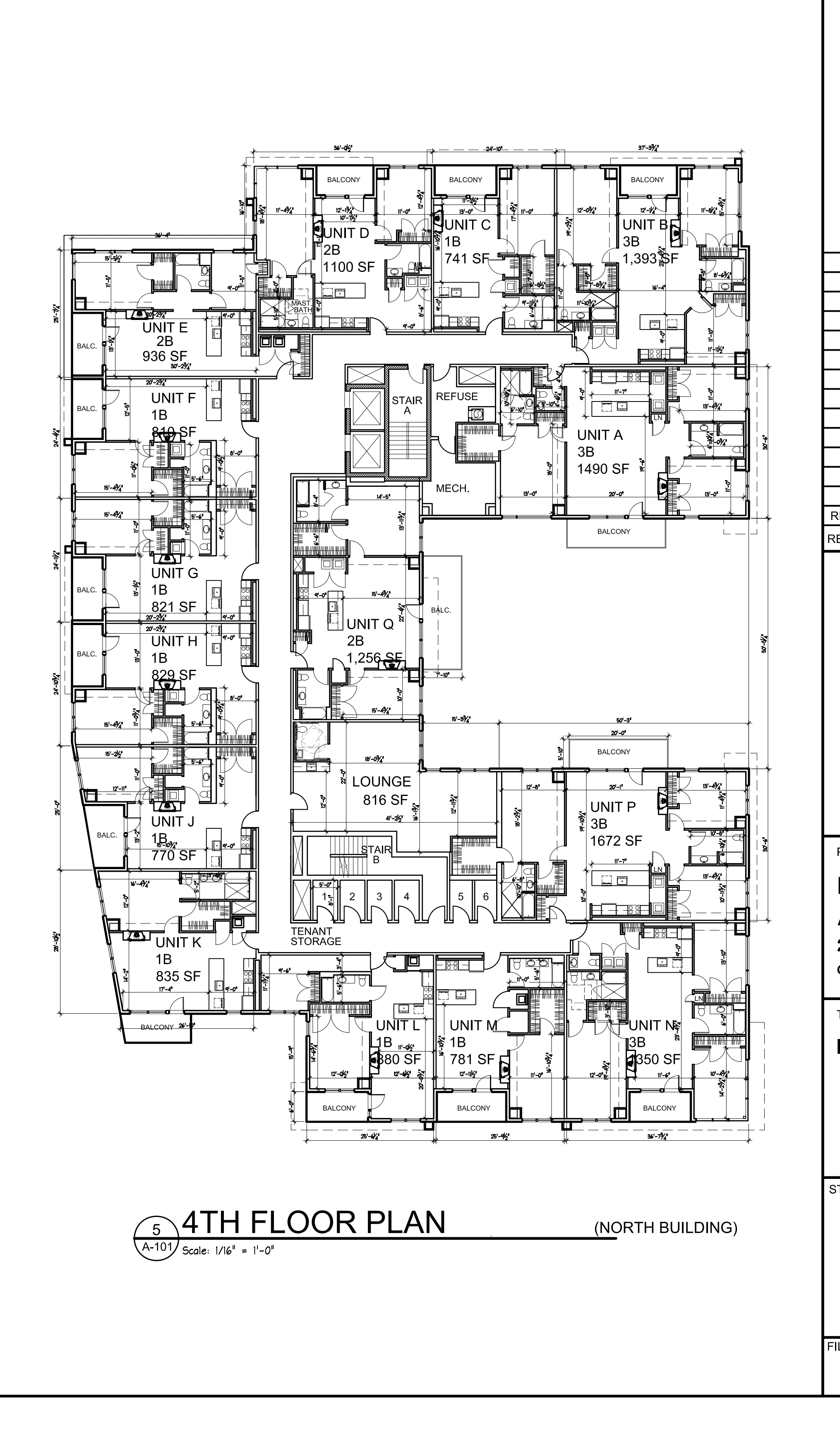
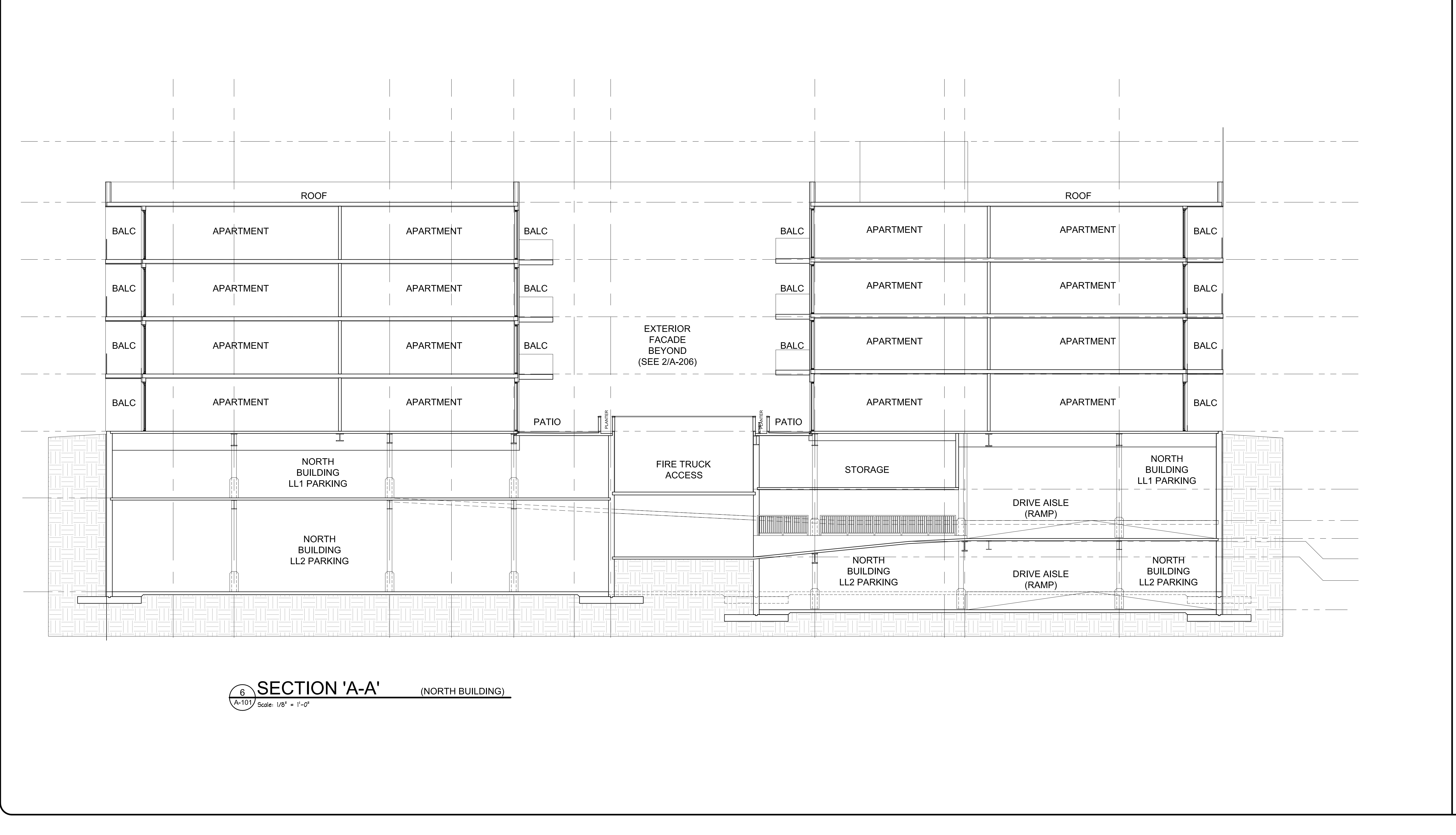
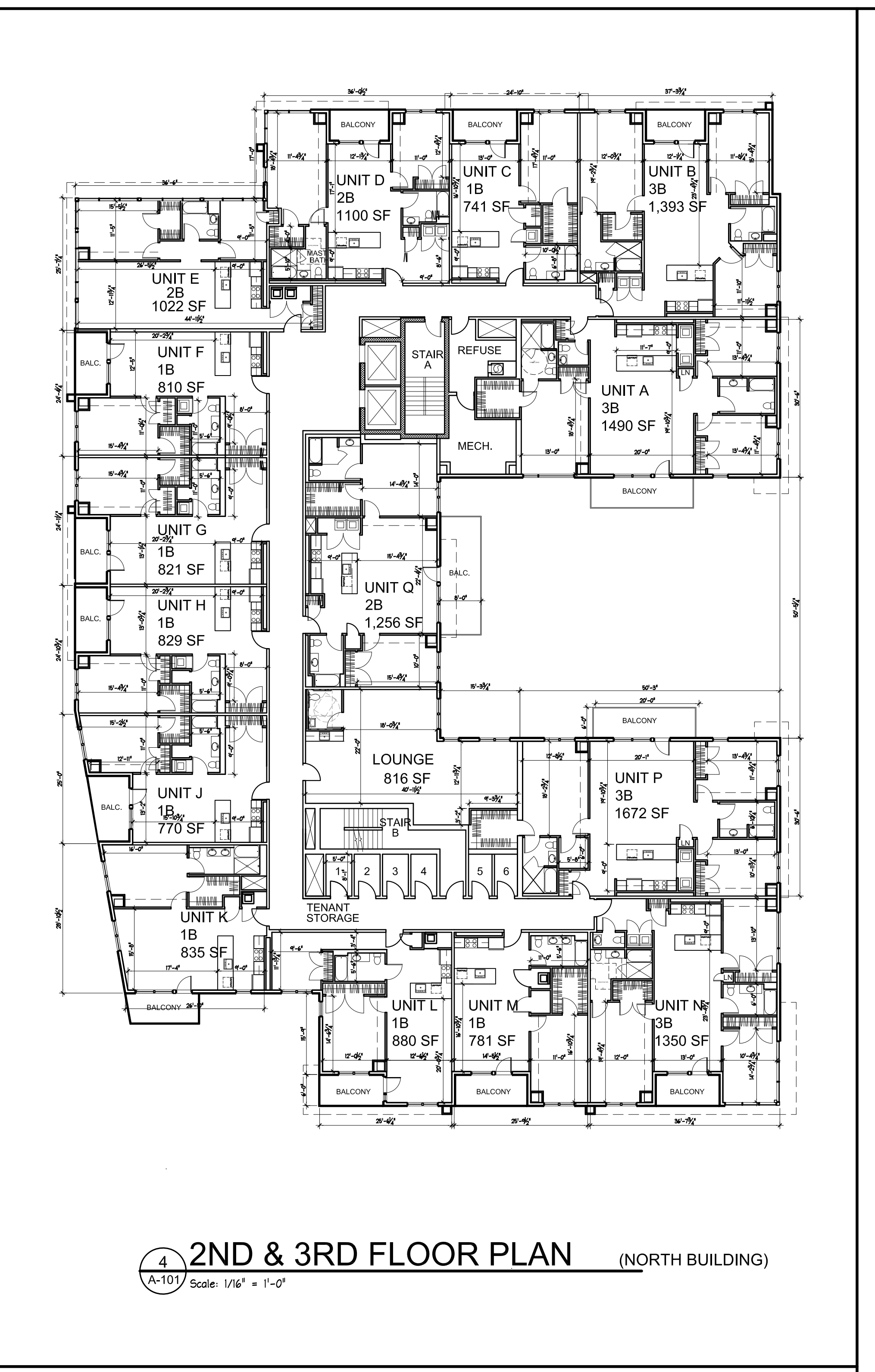
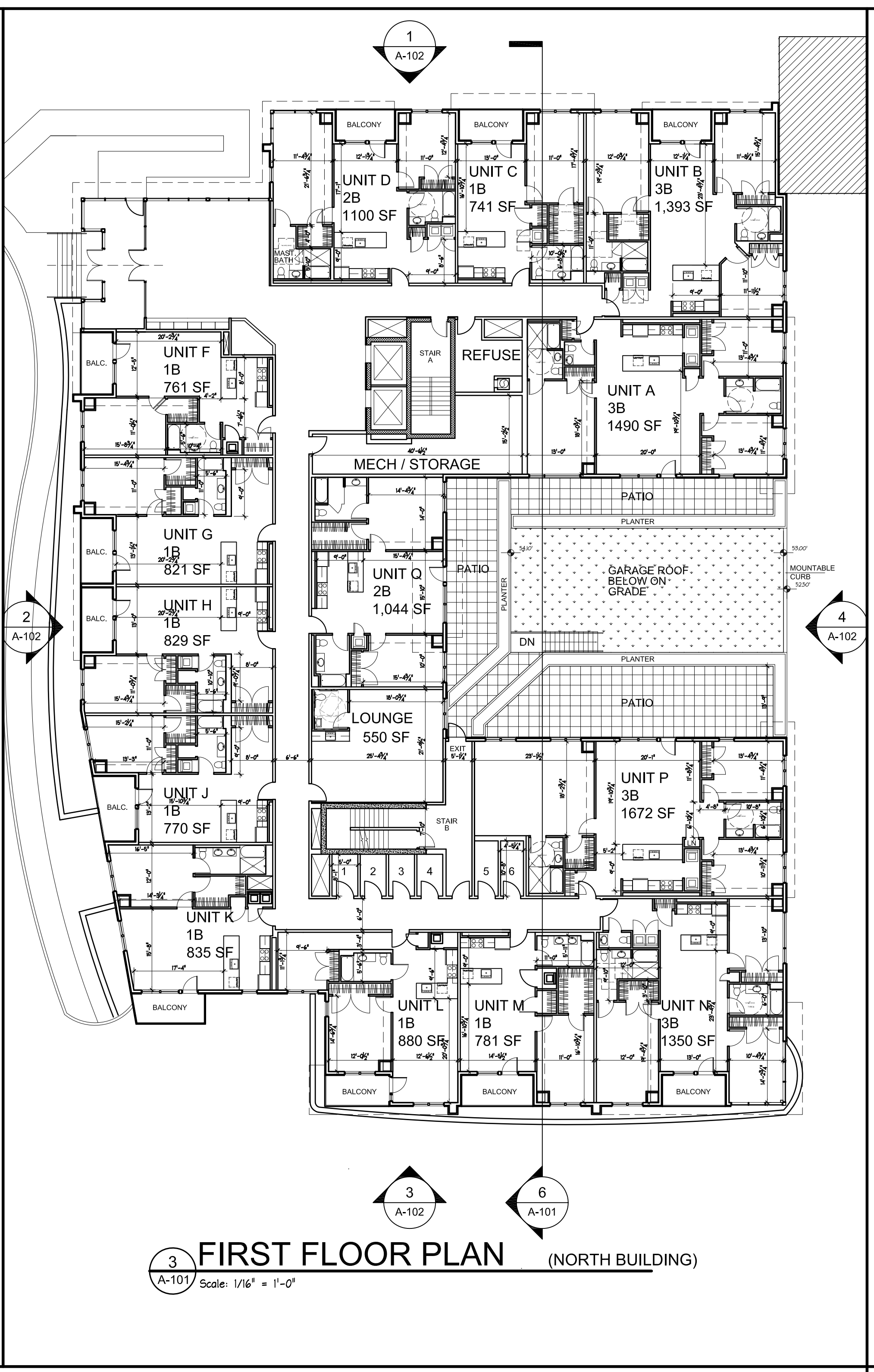
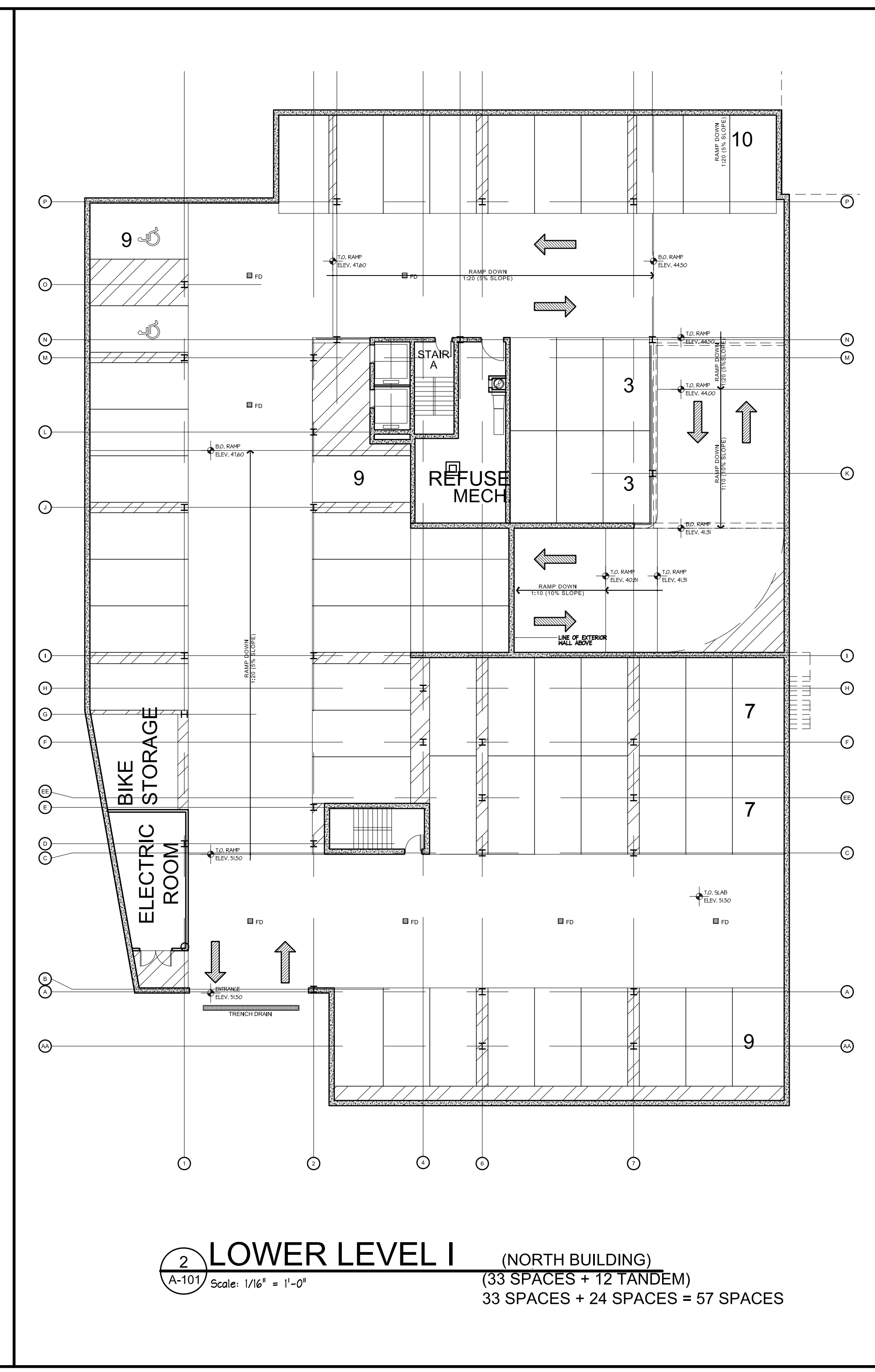
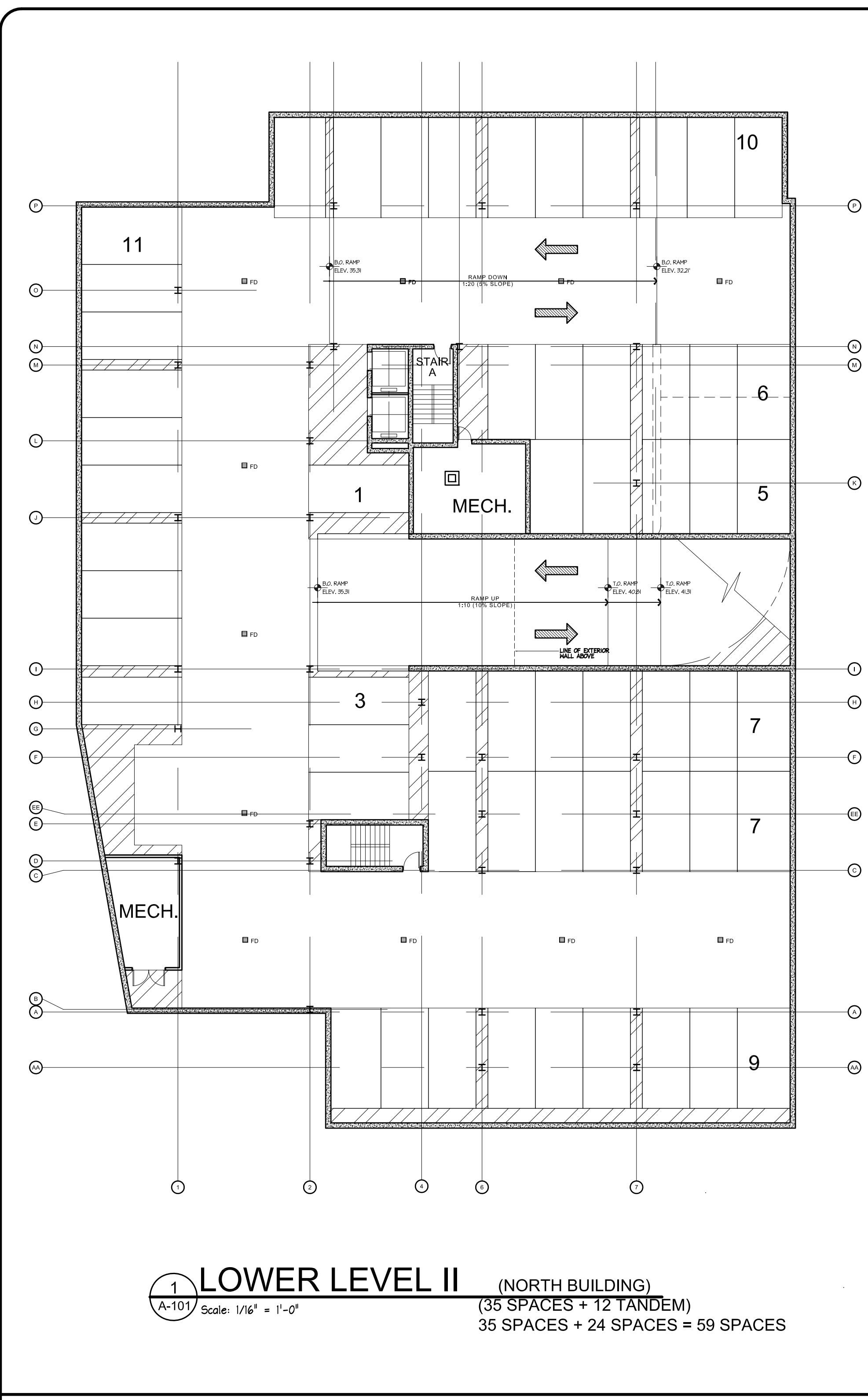
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PROJECT:
MILLBROOK APARTMENTS
240-250 MIDDLE NECK ROAD
GREAT NECK, NY 11023

TITLE:
PARKING LAYOUTS

| | | |
|-----------|--------------|---------------|
| STAMP: | DATE: | 9/04/15 |
| | JOB #: | 14-43 |
| | DRAWN BY: | AG |
| | SCALE: | AS NOTED |
| | DRAWING NO.: | ST-007 |
| FILE No.: | SHEET: | |



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| 03-05-18 | | REVISED |
| 02-07-18 | | REVISED: RESUBMITTED TO N.C.P.A. AS PER COMMENTS |
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PROJECT:
MILLBROOK APARTMENTS
 240-250 MIDDLE NECK ROAD
 GREAT NECK, NY 11023

TITLE:
NORTH BUILDING

| | | |
|--------|-----------|----------|
| STAMP: | DATE: | 08/14/15 |
| | JOB #: | 14-43 |
| | DRAWN BY: | AG |
| | SCALE: | AS NOTED |

DRAWING NO.:
A-101.00

FILE NO.: SHEET:



1 EAST ELEVATION (NORTH BUILDING)
A-102 Scale: 1/8" = 1'-0"



2 NORTH ELEVATION (NORTH BUILDING)
A-102 Scale: 1/8" = 1'-0"



3 WEST ELEVATION (NORTH BUILDING)
A-102 Scale: 1/8" = 1'-0"



4 SOUTH ELEVATION (NORTH BUILDING)
A-102 Scale: 1/8" = 1'-0"

| REV. | DATE | DESCRIPTION |
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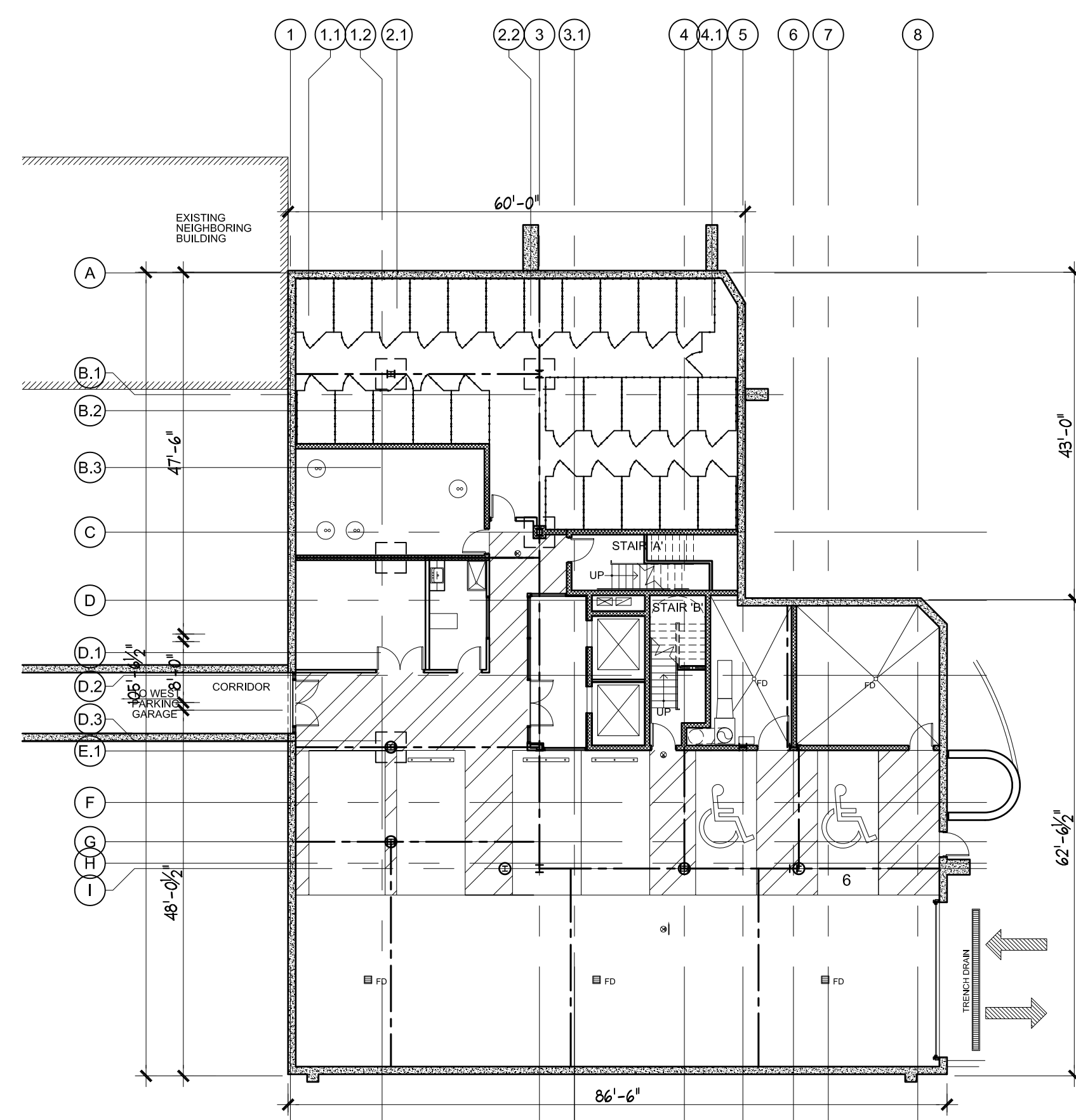

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 TEL: 212.673.3110 • TEL: 631.673.3111 • FAX: 631.673.2031
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PROJECT:
MILLBROOK APARTMENTS
 240-250 MIDDLE NECK ROAD
 GREAT NECK, NY 11023

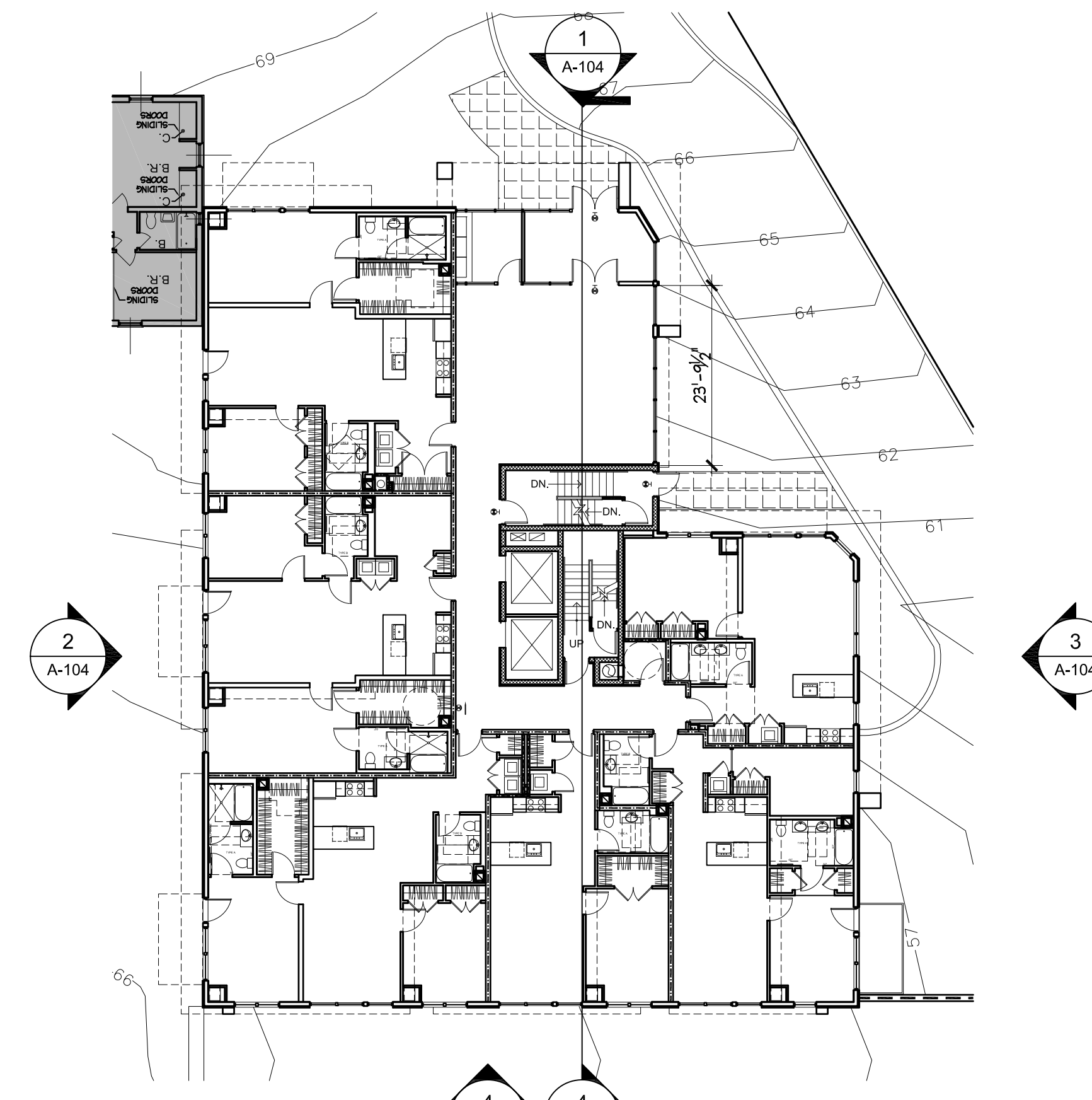
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NORTH BUILDING ELEVATIONS

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 JOB #: 14-43
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A-102.00

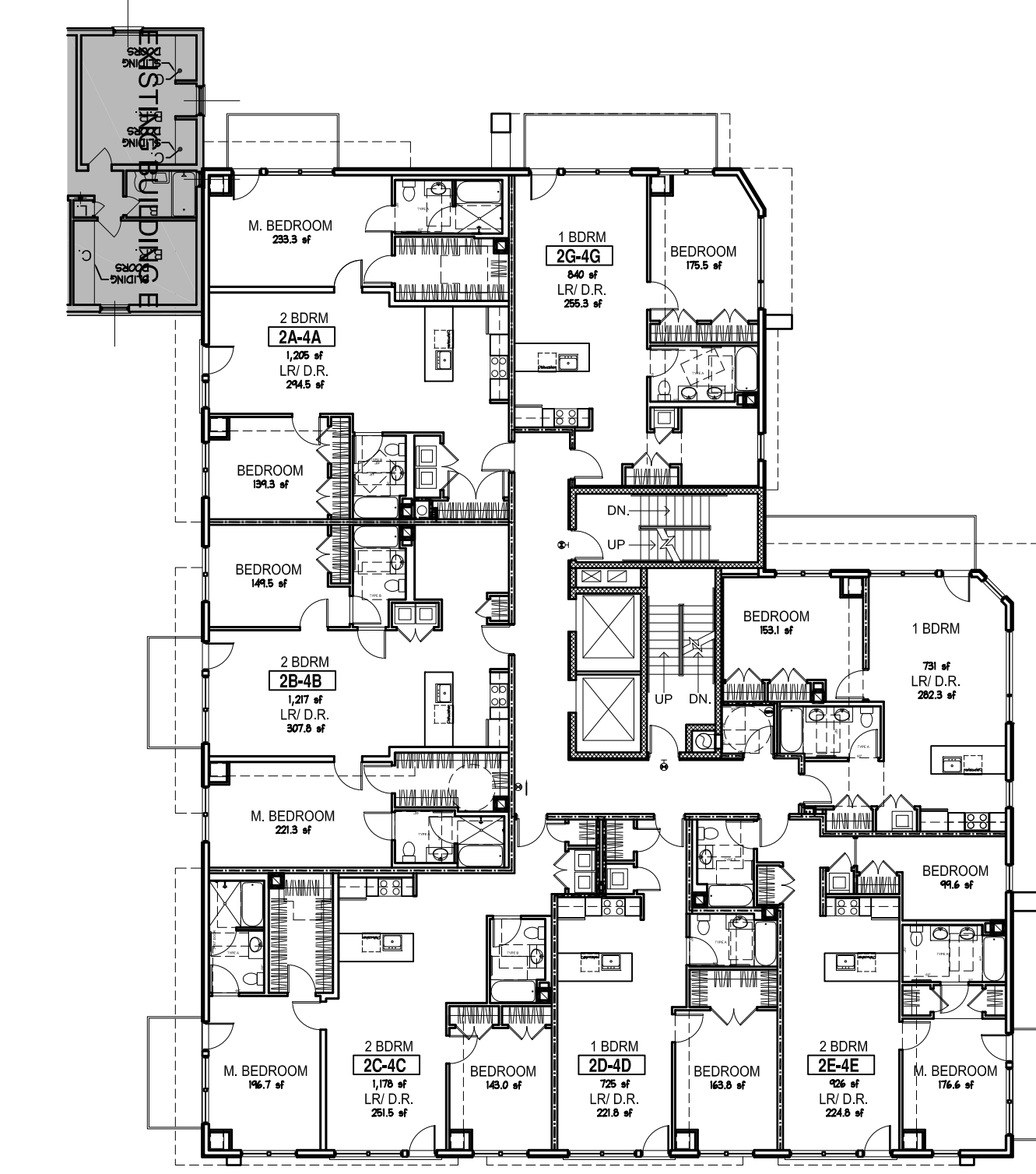
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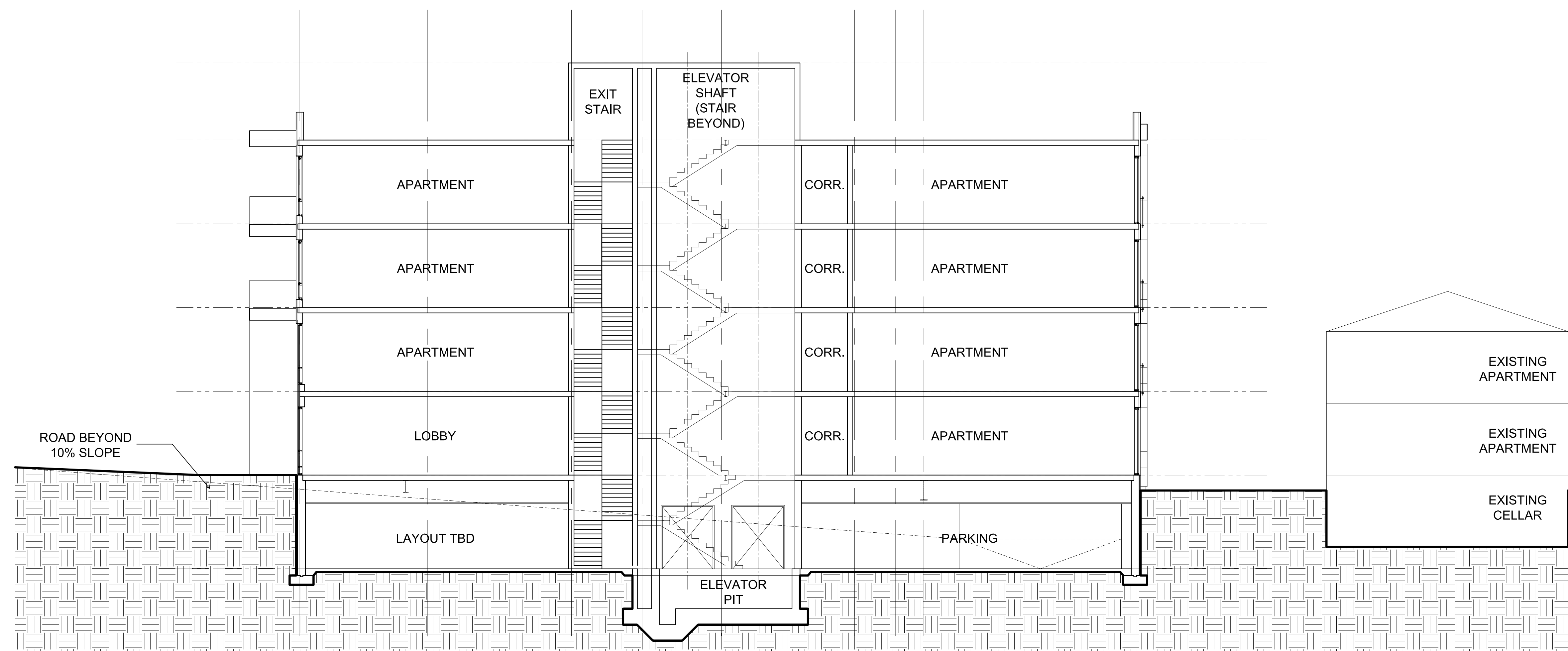
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3 TYP. FLOORS 2,3,4 (SOUTH BUILDING)
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4 SECTION 'D-D' (SOUTH BUILDING)
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| REV. | DATE | DESCRIPTION |
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| 05-23-18 | | ISSUED TO VON HOFF NASSAU COUNTY PLANNING COMMISSION |
| 03-05-18 | | REVISED |
| 02-07-18 | | REVISED/REISSUED TO N.C.F.M. AS PER COMMENTS |
| 12-18-17 | | REVISED |
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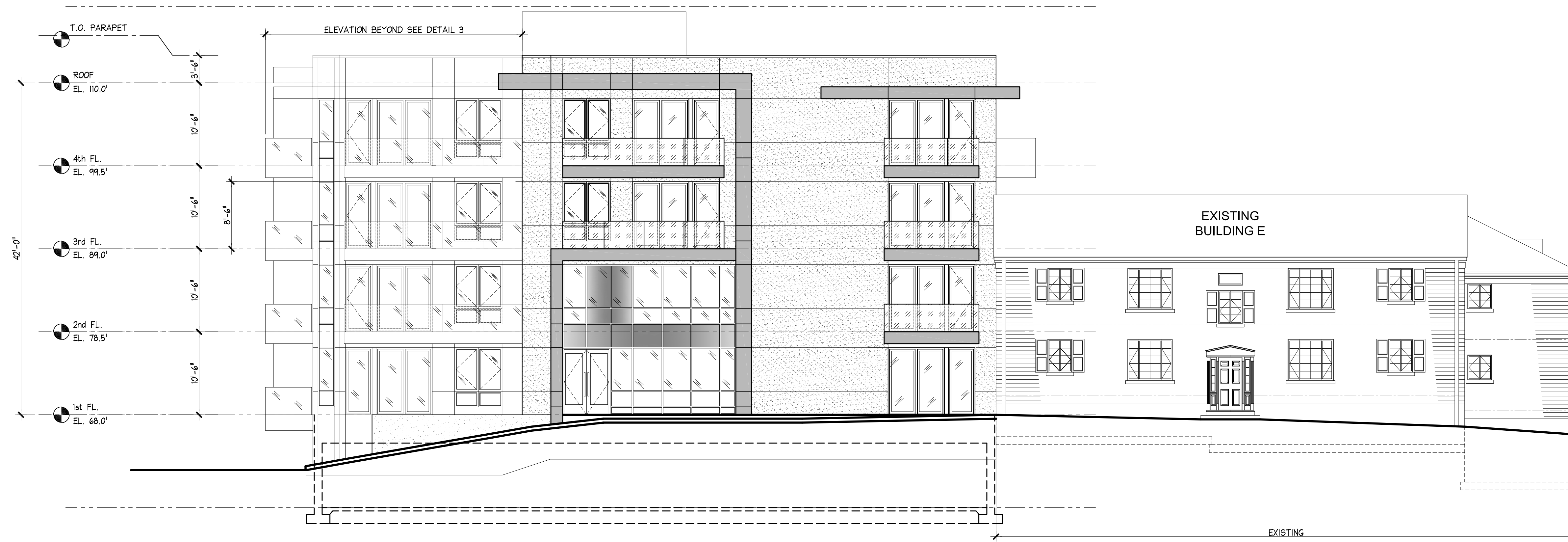
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TITLE:
SOUTH BUILDING

| | |
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| | JOB #: 14-43 |
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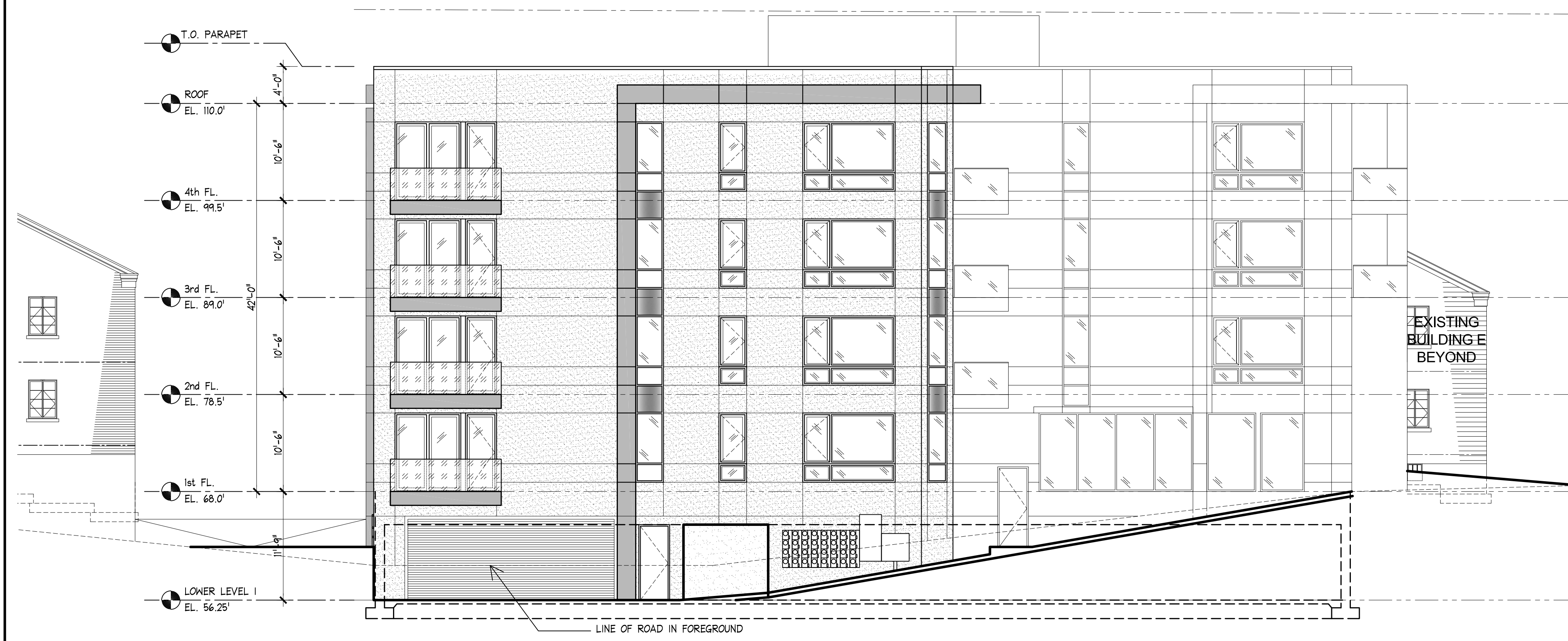
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2 NORTH ELEVATION (SOUTH BUILDING)
A-104 Scale: 1/8" = 1'-0"



2 SOUTH ELEVATION (SOUTH BUILDING)
A-104 Scale: 1/8" = 1'-0"



4 WEST ELEVATION (SOUTH BUILDING)
A-104 Scale: 1/8" = 1'-0"

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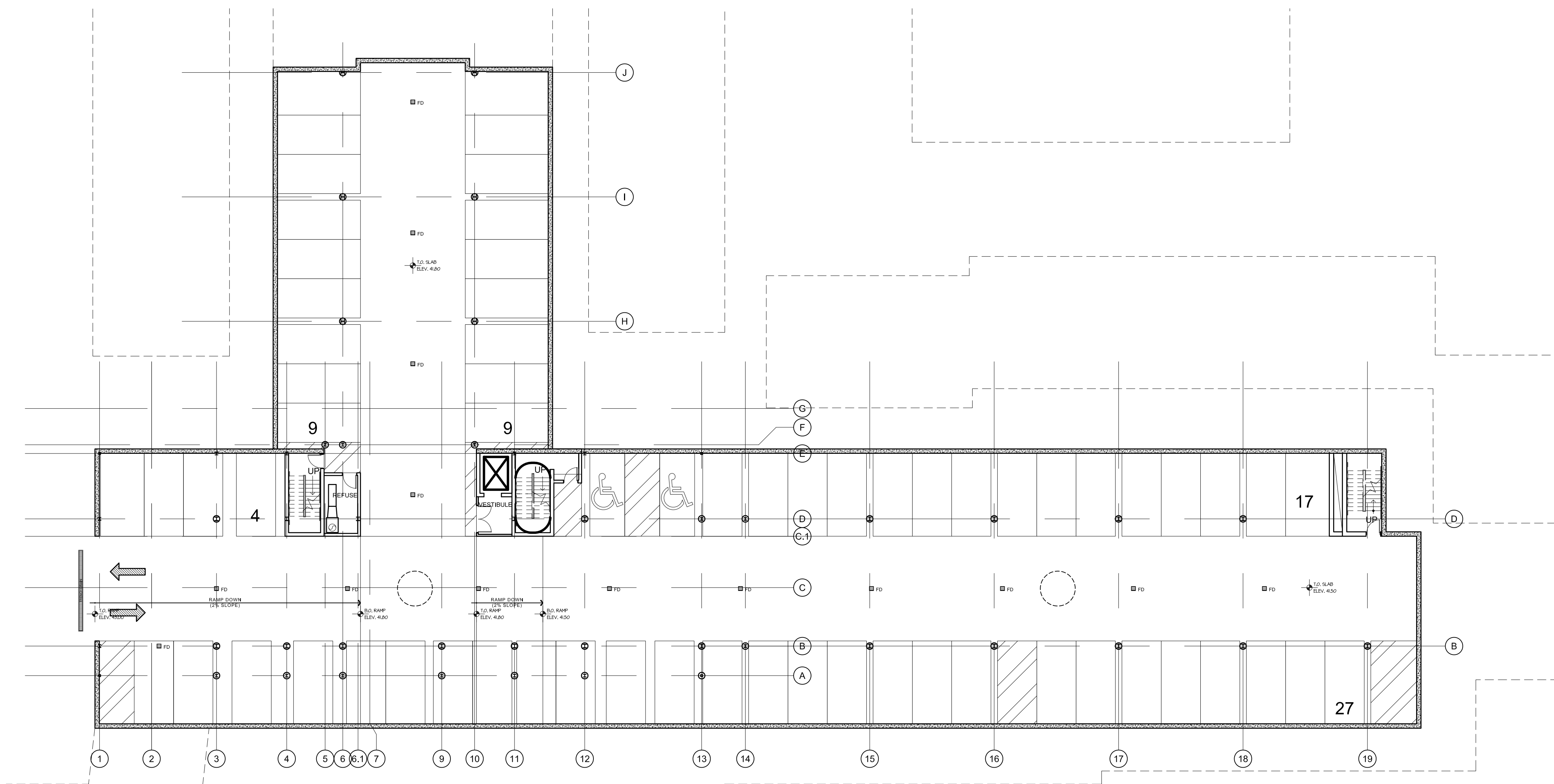
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TITLE:
SOUTH BUILDING

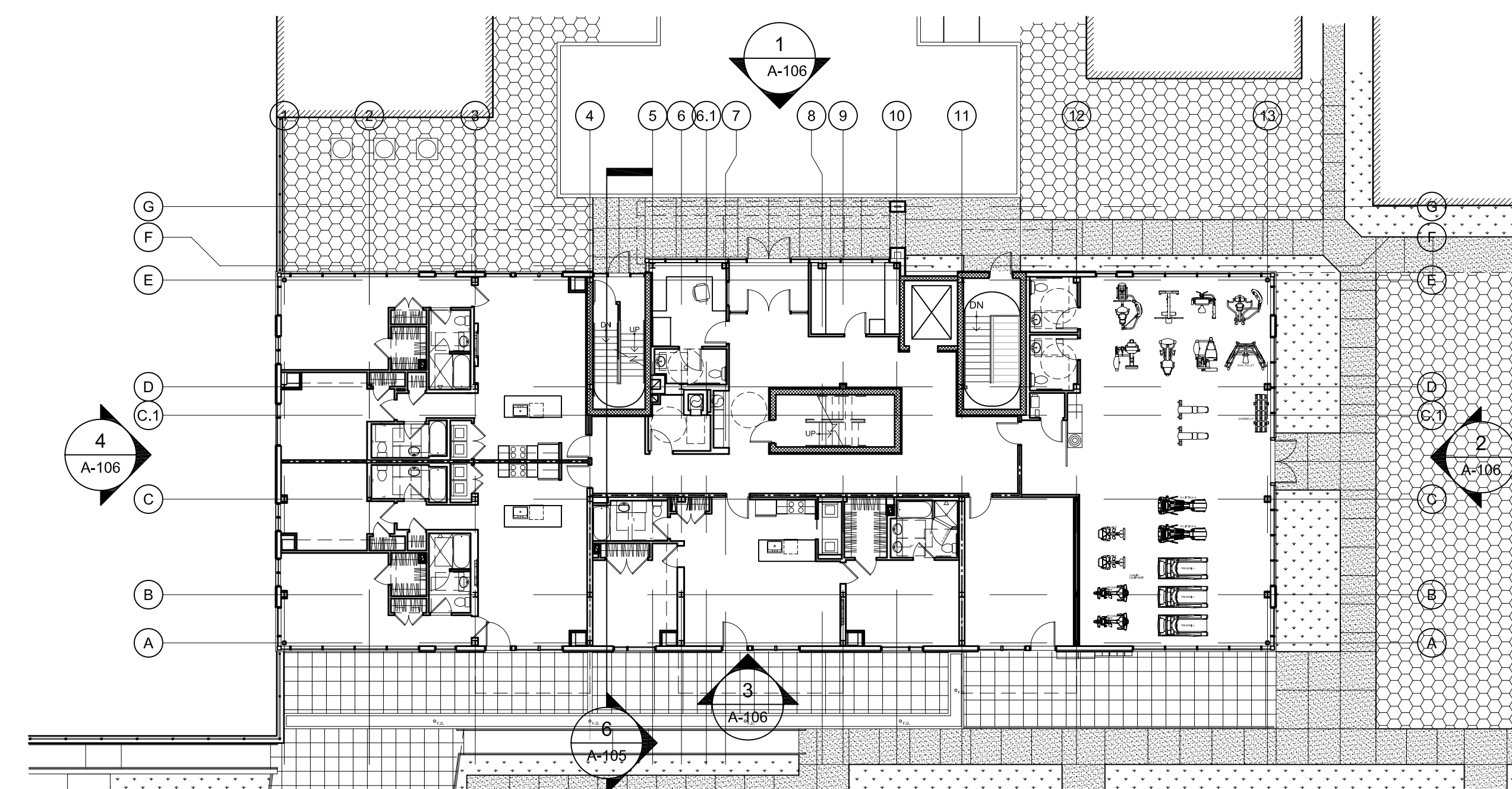
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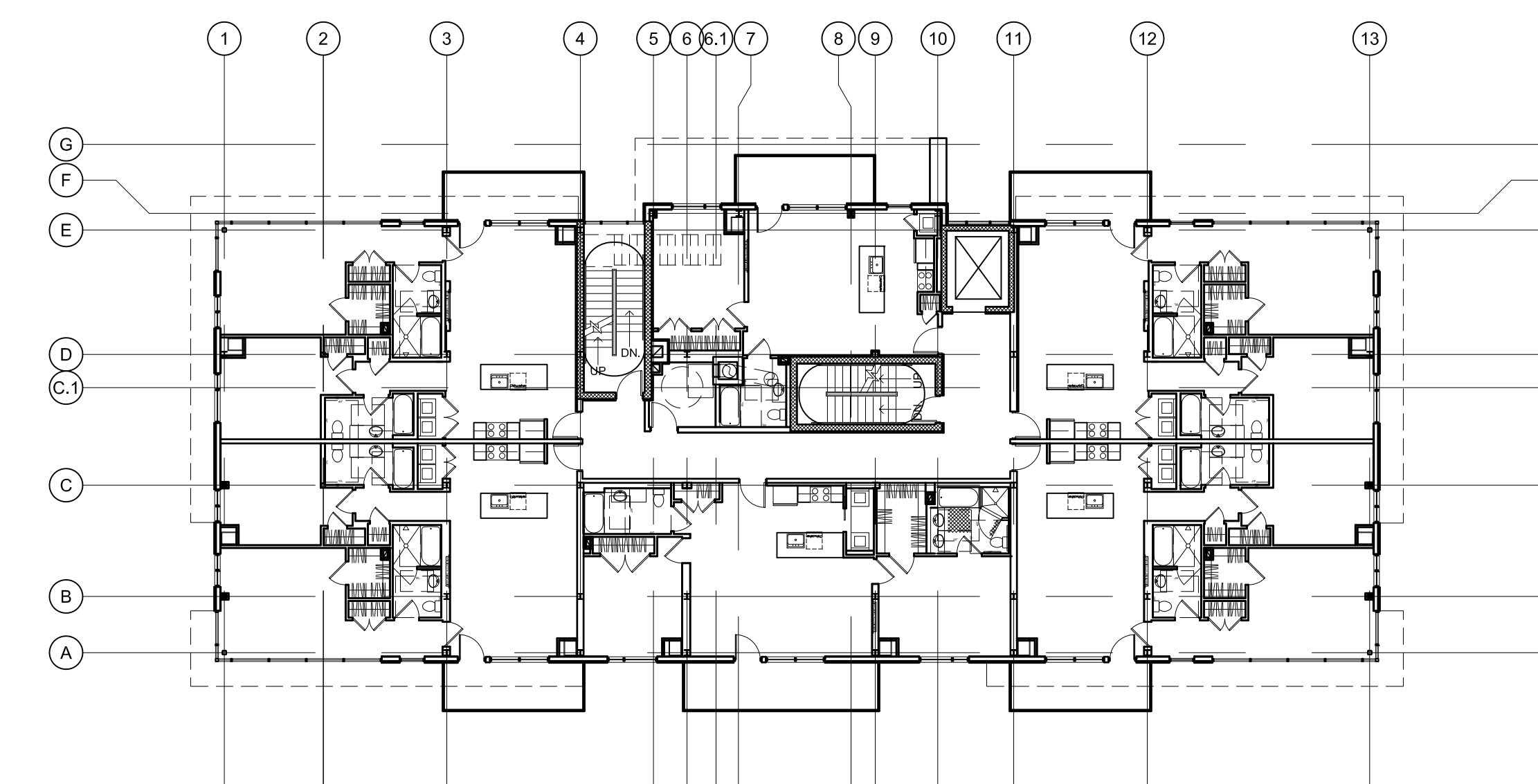
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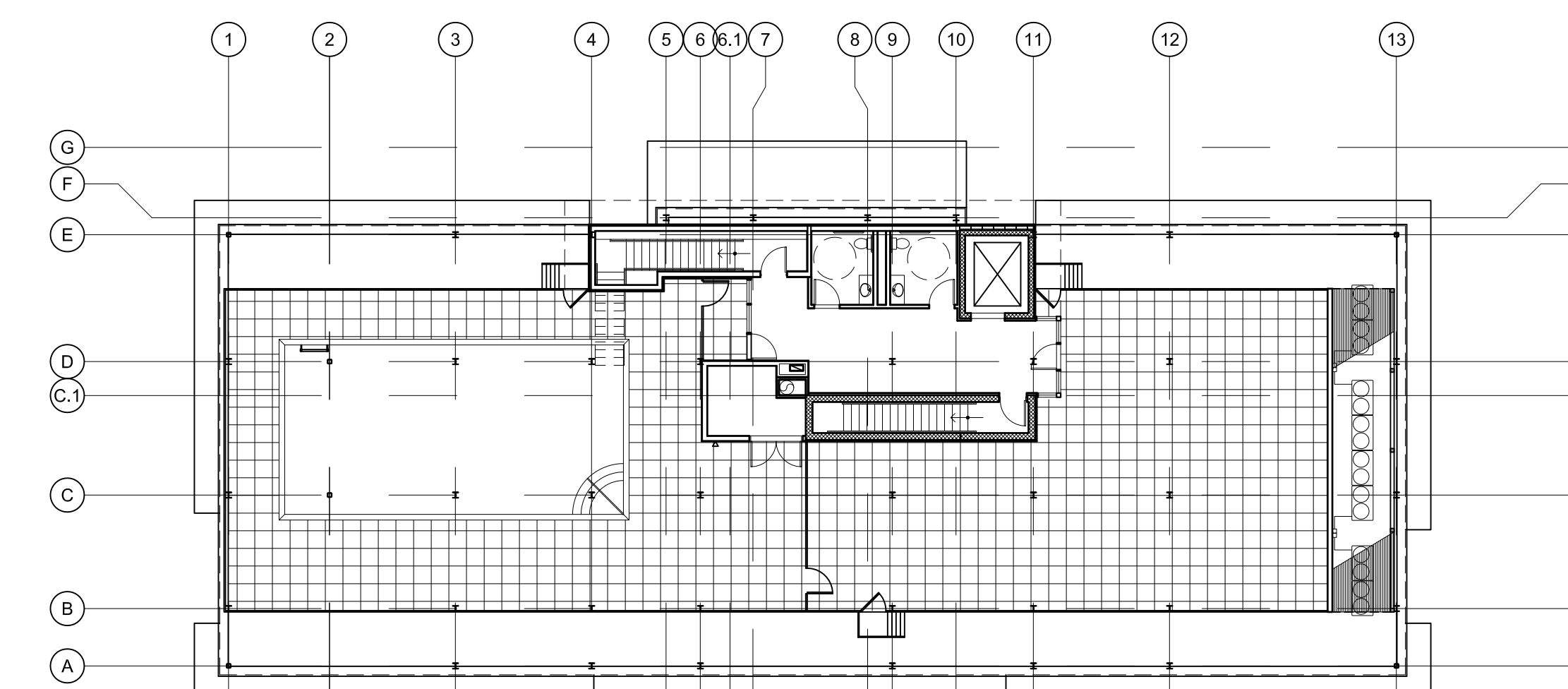
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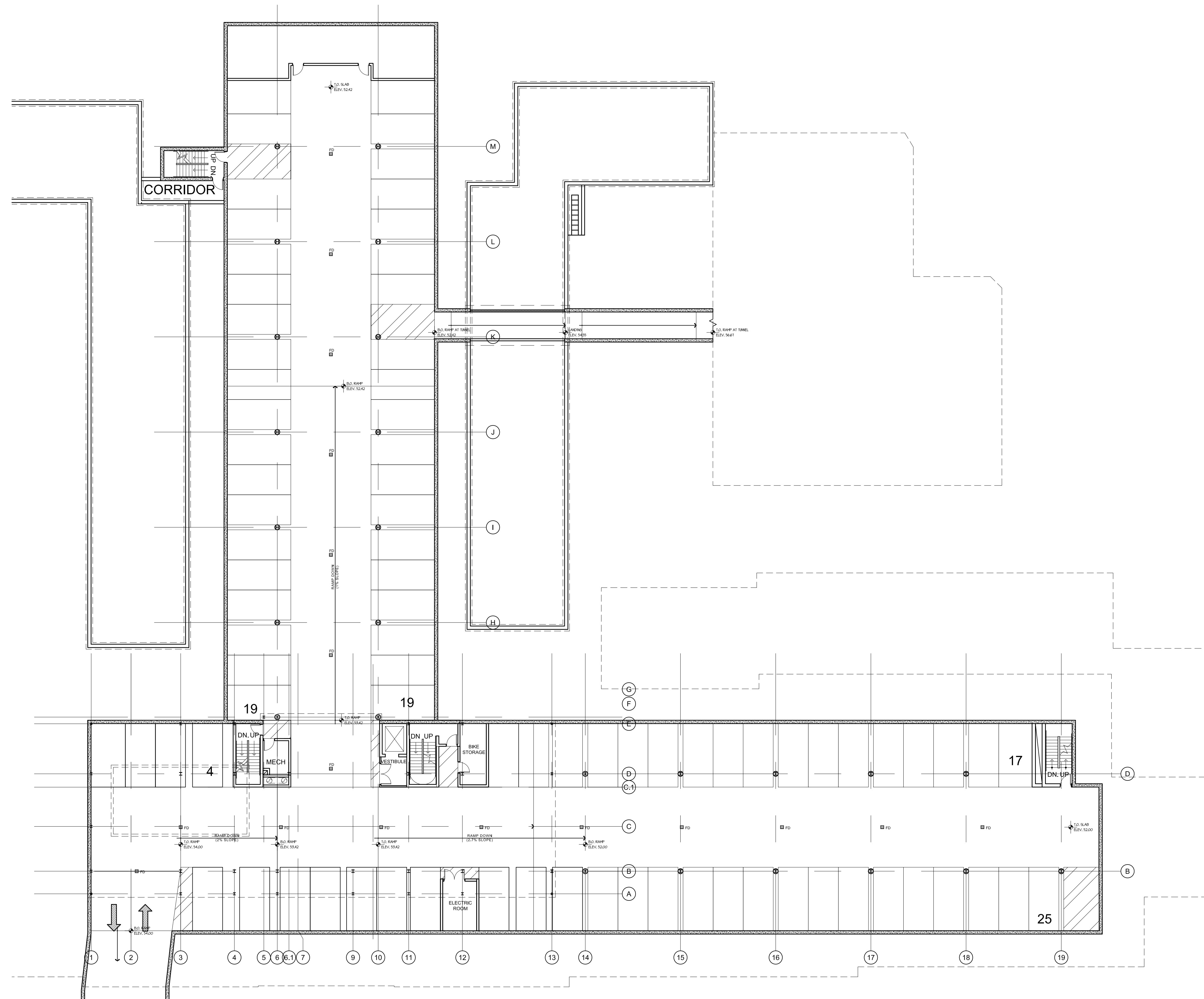
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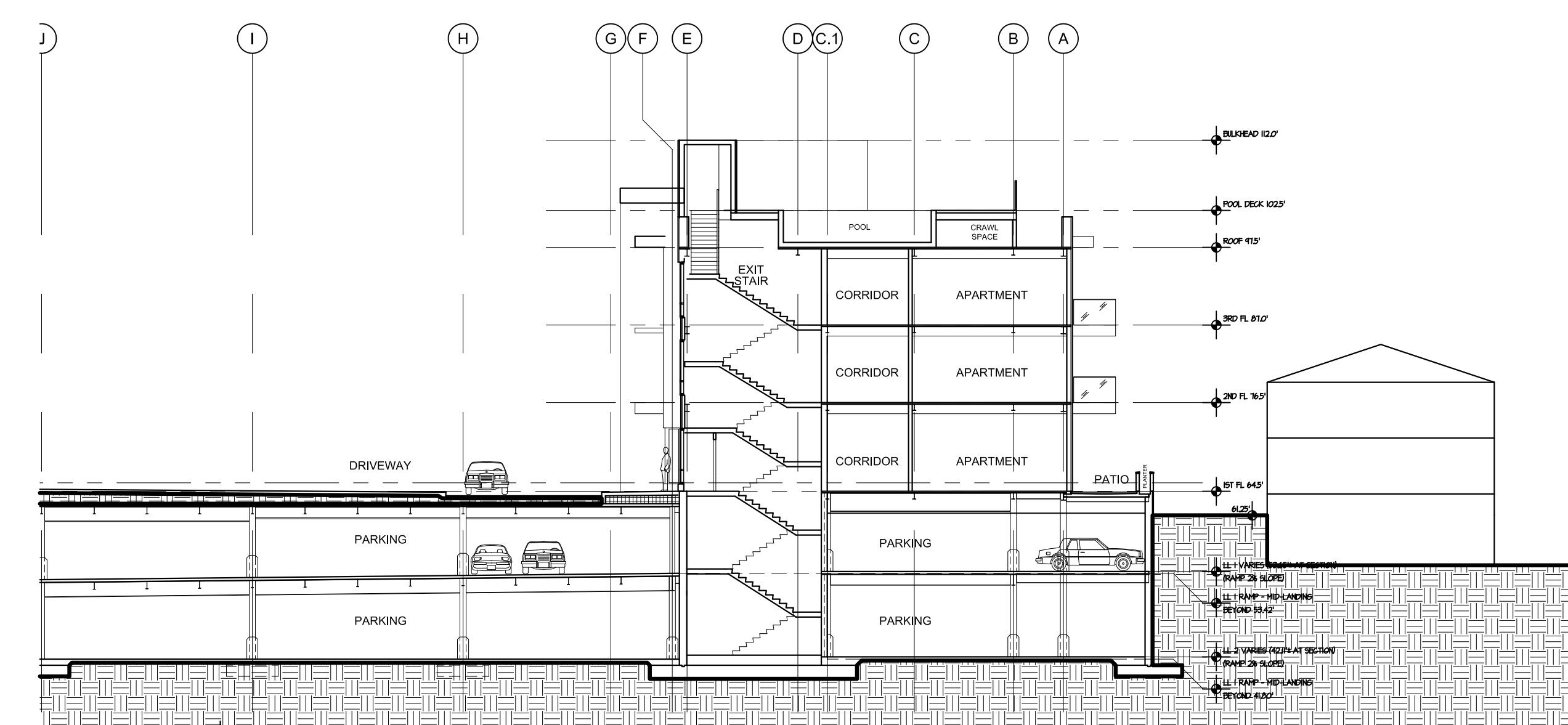
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5 ROOF PLAN (WEST BUILDING)
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2 LOWER LEVEL 1 (WEST BUILDING)
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6 SECTION A-A (WEST BUILDING)
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TITLE:
WEST BUILDING

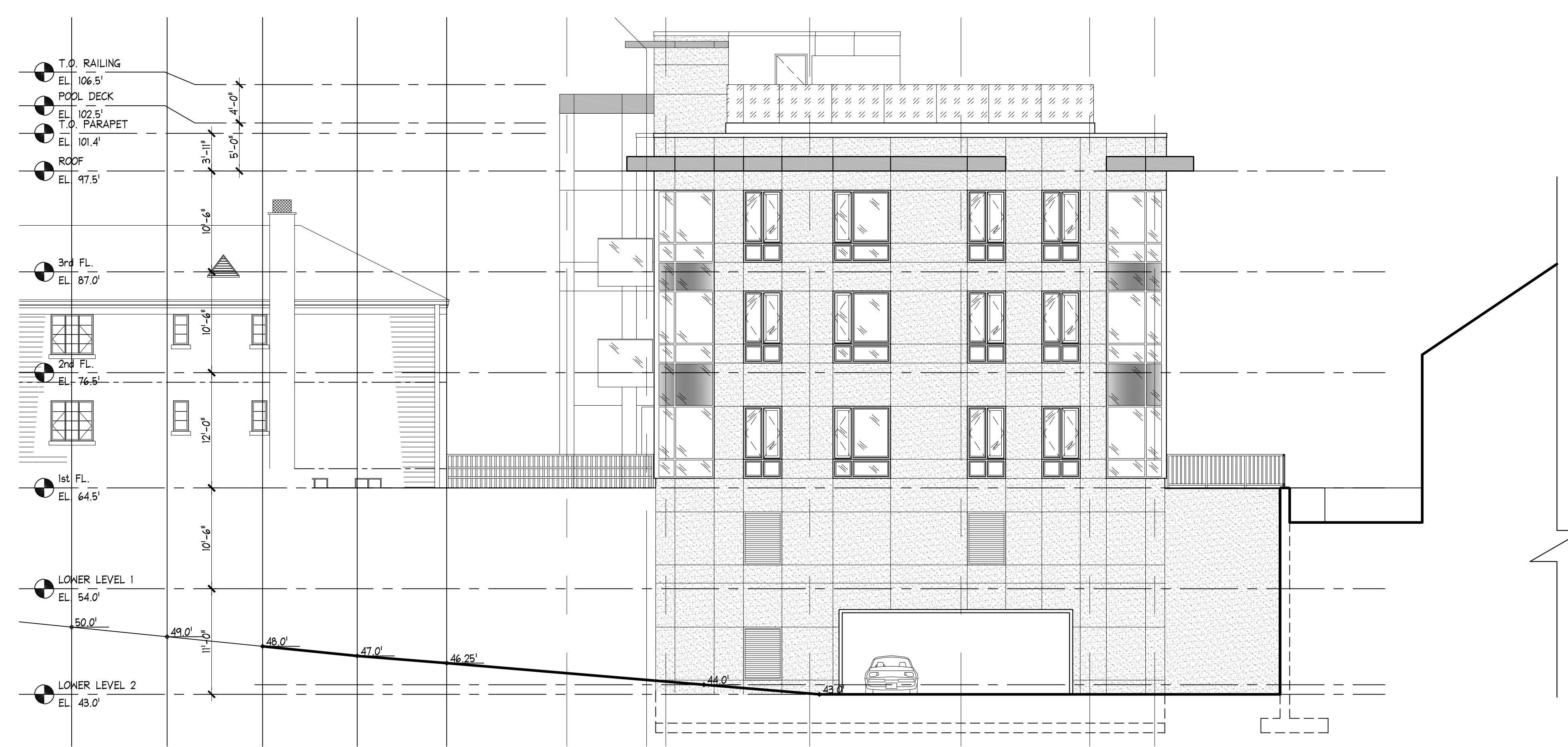
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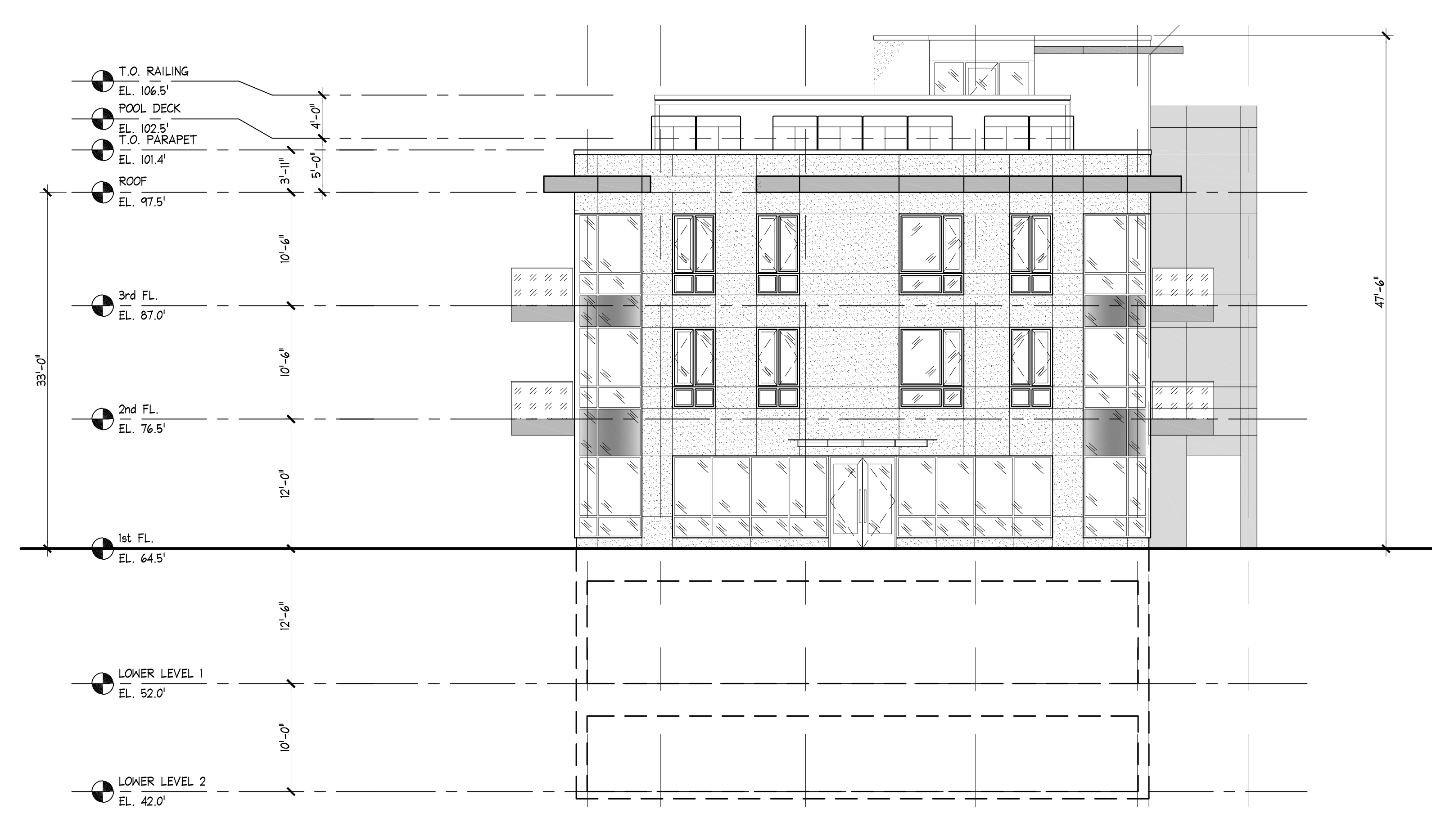
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2 NORTH ELEVATION (WEST BUILDING)
A-106 Scale: 1/8" = 1'-0"



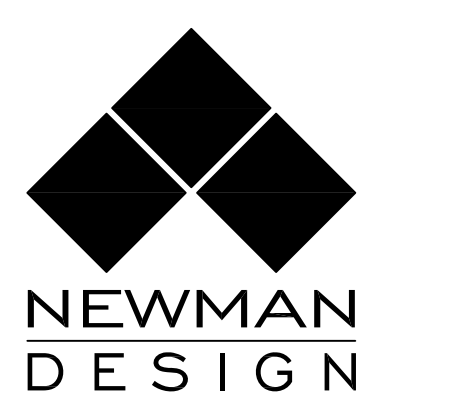
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A-106 Scale: 1/8" = 1'-0"



4 WEST ELEVATION (WEST BUILDING)
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Existing Conditions



Proposed Conditions



Existing Conditions



Proposed Conditions



Existing Conditions



Proposed Conditions

3. Analysis of Potential Environmental Impacts

3.1. Impact on Land

3.1.1. Geology

Existing Conditions - Long Island's geology is especially important as it relates to the population's source of drinking water. Because all of Nassau and Suffolk County drinking water is derived from groundwater, the geological formations that retain that water are referred to collectively as a sole-source aquifer. These aquifers are recharged by rainfall and consequently all activities that occur at the surface have the potential to impact the quantity and quality of the aquifers' recharge. Long Island ultimately rests on bedrock, impermeable rock composed of schist and gneiss.

The Lloyd Aquifer rests on the bedrock and is isolated from the shallower Magothy Aquifer by a 100-foot thick layer of clay. The Water Authority of Great Neck North draws water from several wells in the Lloyd and Glacial aquifers and one in the Magothy aquifer. The Lloyd aquifer and overlying clay are part of the Raritan Formation, fine to coarse-grained sand and gravel.

The Magothy Formation is separated from the Raritan Formation by the Raritan clay layer. The Magothy Formation consists of sand, silt, and clay fluvial deposits with scattered clay lenses.

Sand and gravel from the last Ice Age of 15,000 years ago were deposited on top of the Magothy Formation. Most shallow private wells and some municipal wells draw from the Glacial Aquifer. The Water Authority of Great Neck North has two (2) wells that draw water from the Glacial Aquifer located within Great Neck.

Potential Impacts of Proposed Project – Only the surface glacial deposits would be impacted by the development of the site. Grading of the site would result in movement of material throughout the site (see following sections on Soils and Topography). Deeper geological layers would not be impacted by site development.

Proposed Mitigation – Mitigation for the effects of site grading/construction are discussed in Section 3.1.3 below.

3.1.2. Soils and Topography

Existing Conditions – The 4.35 acre property slopes from south to north. Based on the most recent USGS LIDAR digital elevation model (DEM), the southern end of the site is approximately 70 feet above sea level, while the northern end drops to

approximately 53 feet above sea level. As such, site topography is relatively level with approximately 82% of the site having slopes less than 10%, approximately 9.5% of the site having slopes ranging from 10-15% and approximately 8.5% of the site having slopes greater than 15%.

The Soil Conservation Survey (SCS) of Nassau County⁴ provides information that is useful as a general evaluation of the soils. According to the SCS, 100% of the soil on site is classified as Urban Land-Montauk Complex, 3 to 8 percent slopes (UnB). UnB soil consists of urbanized areas and very deep, well-drained soils. This unit comprises approximately 60% urbanized area, 25% Montauk soils, and 15% other soils.

Potential Impacts of Proposed Project – Excavation would be required for construction of the parking garages/buildings and drainage structures.

Proposed Mitigation – See construction impacts section below.

3.1.3. Construction Impacts

Potential Impacts of Proposed Project – The redevelopment of Millbrook Apartments, like any construction project, would have short-term impacts on the environment related strictly to the process itself. These could include soil erosion, noise, traffic disruption, and dust. Demolition of the existing buildings and construction is estimated to extend approximately 27 months, subject to weather-related delays and other unforeseen events. Weekday construction activities would be confined to the hours of 8 AM to 7 PM. Weekend construction activities would be restricted to the hours of 9 AM to 7 PM on Saturdays and holidays. An overall construction schedule is provided in Figure 2-3.

A. Pappajohn Company is the general contractor for this project and has prepared a Site Logistics Plan (Figure 2-2) detailing the two major phases of construction. The Site Logistics Plan has been designed to minimize potential impacts while the building is under construction. The components of the two phases are as follows:

Phase No. 1

- Install safety fencing/temporary sidewalks/bridges/lighting etc. in front of apartments that face work areas. Relocate mailboxes and household garbage containers.

⁴ *Soil Survey of Nassau County New York*. Soil Conservation Service, February, 1987

- Complete drive way around rear of existing building in the south west corner of the property, add 5 parking spaces. New section of drive way completes a loop drive around the property.
- Demolish 2 units in the south west corner of the property. Removal of these units allows for future fire truck access.
- Demolish 4 units at front of property on south side. Removal of these units allows for the construction of the South apartment building.
- Lose 24 surface parking spaces where South apartment building is to be built.
- Lose 28 on grade parking spaces at Millbrook Court.
- Construct 150-car Millbrook Court/West garage.
- Construct 27-unit South apartment building and 6-car parking garage
- Construct 15-unit West apartment building.
- Regain use of 10 on-grade parking spaces Millbrook Court.

It is estimated that Phase 1 will take approximately 15 months. At the completion of Phase No. 1, there will be 155 units and 261 parking spaces.

Phase No. 2

- Demolish 13 units at front of property/north side - allows for the construction of the North building.
- Demolish 15 units - allows for the construction of the North building.
- Demolish 28 existing garage spaces.
- Lose 20 surface parking spaces north side.
- Construct 59-unit apartment North building and 116-car garage.
- Construct 6 surface parking spaces on north side.

It is estimated that Phase 2 will take approximately 12 months. At the completion of Phase No. 2, there will be 186 units 314 parking spaces.

Excavation will be required for the construction of the proposed parking garages and the installation of new drywells. The total volume of soil to be excavated is approximately 47,760 cubic yards. Construction of the West parking garage will result in approximately 19,600 cubic yards of material removed (providing 66 parking spaces on Lower Level II and 84 parking spaces on Lower Level I for a total of 150 parking spaces). Construction of the South parking garage on the south-east corner of the property will require the removal of approximately 4,000 cubic yards of material (providing a total of 6 parking spaces on Lower Level I). The North parking garage on the north-east corner of the property will require the removal of

approximately 16,200 cubic yards of material (providing 59 parking spaces on Lower Level II and 57 parking spaces on Lower Level 1 for a total of 116 parking spaces). Construction of the ‘Building A’ parking area will result in approximately 800 cubic yards of material removed (providing a total of 2 parking spaces on Lower Level I). Construction of the ‘Building C’ parking area will result in approximately 3,400 cubic yards of material removed (providing a total of 19 parking spaces on Lower Level I). In addition, approximately 3,760 cubic yards of soil will be removed to install the 102,000 cubic feet of stormwater storage.

Overall, the excavation portions of the project could total approximately 34 weeks. During this phase, approximately 36 truck trips per day could be anticipated.

Vibration impacts are anticipated to be minimal as the construction process is not anticipated to require any drilling or significant disturbances underground.

Proposed Mitigation – Throughout the construction process, all construction vehicles and materials will be stored on-site within the limits denoted by the temporary construction fencing. To accommodate the potential demand for off-site resident and contractor vehicle parking during construction, the applicant has initiated discussions with nearby religious institutions (Temple Beth-El and Shaare Zion) to provide off-site parking for resident and construction worker vehicles if on-site space becomes limited during construction.

A detailed Soil Erosion Control Plan has also been prepared (Figure 2-8). Erosion would be curtailed by the use of construction fencing with silt barriers, storm drain inlet filters and filter protection for new drywells on-site. The construction entrances would be stabilized with crushed stone to prevent soil and loose debris from being carried onto local roads. All construction-related erosion control measures would be removed during final landscaping.

3.2. Impact on Water

3.2.1. Groundwater

Existing Conditions – The site is not located in a Special Groundwater Protection Area (SGPA) as designated by the Nassau County Department of Health and Long Island Comprehensive Special Groundwater Protection Area Plan. An SGPA is defined by the Long Island Regional Planning Board⁵ as a “*recharge watershed area*”

⁵ L. E. Koppelman, A. Kunz, E. Tanenbaum, and D. Davies. The Long Island Comprehensive Special Groundwater Protection Area Plan, Long Island Regional Planning Board, 1992.

within a designated sole source area contained within counties having a population of one million or more which is particularly important for the maintenance of large volumes of high quality groundwater for long periods of time.”

Article X of the Nassau County Public Health Ordinance was drafted to help protect the aquifer by regulating the discharge of sewerage and industrial wastewater. Because the Millbrook Apartments would be connected to the public sewerage collection system and would not generate industrial wastewater, the development restrictions of Article X would not apply.

The site is located in Hydrogeological Zone I. Areas designated as such are identified as "deep recharge areas" important to the groundwater aquifers. Hydrogeological Zone I is one of the three (3) major deep recharge zones of Long Island. Nitrates from fertilizers and on-site waste disposal systems have contaminated portions of this zone. Additional contamination has also occurred in parts of the Zone from synthetic organic chemicals derived from industrial and other activities. Zone I contributes water to the Magothy aquifer and is the major water supply for Nassau and Suffolk residents. As such it is closely monitored and protected.

The three (3) major aquifers or saturated water-bearing strata beneath the surface of Nassau and Suffolk Counties are the Upper Glacial, Magothy, and Lloyd aquifers. The upper glacial and Magothy aquifers are the major sources of drinking water for Long Island (see section on Geology). Groundwater below the site generally flows in a north-northwesterly direction toward the shore where it discharges to the bays and harbors of the Long Island Sound. According to the USGS Water Resources Investigations Report 86-4189, the water table is at an elevation of approximately 20 feet above mean sea level. As site elevation averages approximately 60 feet, the water table would be approximately 40 feet below grade.

The existing building is connected to the sewer system.

Potential Impacts of Proposed Project – Impacts to groundwater include those related to withdrawals and others related to infiltration. This project would result in a minor increase in withdrawal of groundwater from Water Authority of Great Neck North wells. Water consumption by the redeveloped Millbrook Apartments is estimated to be 47,400 gallons per day.⁶ Existing water consumption, based upon water use records provided by the applicant, is approximately 11,500 gallons per day

⁶ Nassau County Department of Public Works. *Minimum Design Sewage Flow Rates*. 2008.

The proposed apartment building would be connected to the Great Neck Water Pollution Control District wastewater system. On-site groundwater inputs would therefore include only minor quantities of stormwater and its typical contaminants. These are discussed further in the section on stormwater (Section 3.2.3).

Proposed Mitigation – Letters requesting water availability were sent to the Water Authority of Great Neck North on March 24, 2015, June 29, 2016 and July 25, 2017. Letters requesting sewer service availability were sent to the Great Neck Water Pollution Control District on March 24, 2015 and July 25, 2017 (Appendix B). Use of mulch would conserve moisture in planters. Water conserving appliances would further reduce consumption of public water.

3.2.2. Flooding and Flood Zones

Existing Conditions – The subject property is referred to on the Federal Emergency Management Agency flood zone map as “No Special Flood Hazard.”

Potential Impacts of Proposed Project – After development, the flooding potential on the property would be unchanged.

Proposed Mitigation – No mitigation is required.

3.2.3. Stormwater Collection, Treatment, and Recharge

Existing Conditions – Stormwater from the existing developed site drains to on-site drywells. The site is currently developed as a residential apartment complex and consists of roughly 2.74 acres of impervious surface (approximately 63% of the site area).

Potential Impacts of Proposed Project – Development of the site would result in a fully developed site with approximately 3.04 acres of impervious surfaces (roof and paved areas representing approximately 70% of the site area) and 1.31 acres of pervious surfaces (grass area representing approximately 30% of site area) over which stormwater would flow.

Runoff from nearby roads and parking areas can carry contaminants including various metals, petroleum products, sand and salt from deicing, and other compounds. Any runoff generated on-site would be collected in drywells where it would infiltrate in the soils beneath the site. The pollutants that may be released from the use of these surfaces would be derived exclusively from automotive residuals. Ordinary soil bacteria readily degrade most petroleum compounds that reach the ground. Trace metals are usually bound up in the organic material of the soil.

Groundwater is approximately 40 feet below grade. Consequently, very little if any stormwater contaminants would be expected to reach groundwater. The potential impact of stormwater on the soils and groundwater is therefore expected to be minimal.

Proposed Mitigation – The applicant intends to install 102,000 cubic feet of storage to collect and recharge stormwater for the proposed project (51 12-foot drywells with an effective depth of 20 feet each will provide 1,020 linear feet/102,000 cubic feet of storage – exceeding the required 1,000.9 linear feet/100,090 cubic feet of storage). The proposed system would be able to handle an eight-inch rainfall event.

3.3. Impact on Plants and Animals

Existing Conditions – The site is currently fully developed, with a mix of trees and shrubs typical of a multi-family suburban property.

Potential Impacts of Proposed Project – The site would be fully developed, featuring a combination of existing trees (primarily along Middle Neck Road) and shrubs (primarily adjacent to the existing buildings) along with newly installed trees and shrubs (see Figure 2-9).

Proposed Mitigation – None required.

3.4. Impact on Agricultural Land Resources

There are no agricultural land resources on the project site.

3.5. Impact on Aesthetic Resources

Existing Conditions – The current site is developed with a 119-unit apartment complex. A photograph of the existing property is provided below.



Figure 3-1: Existing View from Middle Neck Road



Figure 3-2: Existing View from Sidewalk (corner of Millbrook Court & Middle Neck Road)



Figure 3-3: View from Rear of Property (NW Corner)



Figure 3-4: View from North Parking Lot



Figure 3-5: View from South Parking Lot



Figure 3-6: View from South Driveway

Potential Impacts of Proposed Project – The visual character of the site would change as a result of development. The existing 119-unit apartment complex would be renovated to provide a total of 186 residential units. Several multi-family buildings of similar height are located in the vicinity of the proposed project. These buildings include: Versailles Court (260 Middle Neck Road), 1 Wooleys Lane, the Hadley Arms apartments (6-8 Wooleys Lane) and 221 Middle Neck Road.

Proposed Mitigation – No mitigation is required.

3.6. Impact on Critical Environmental Areas

There are no critical environmental areas on the project site.

3.7. Impact on Transportation

3.7.1. Traffic

A Traffic Study prepared by Mulryan Engineering, P.C. is provided in Appendix C and is summarized below.

Existing Conditions – The following provides a description of the key roadways located in proximity to the subject site.

- Middle Neck Road provides two lanes in each direction and provides for on-street parking. Middle Neck Road is located to the east of the subject property. Middle Neck Road is under the jurisdiction of the Nassau County Department of Public Works.
- Old Mill Road is located just north of the subject site. Old Mill Road connects to Bayview Avenue to the west.
- Bayview Avenue runs parallel to Middle Neck Road and is one of the key routes within the area. Bayview Avenue provides two lanes in each direction with turn lanes at key intersections. The cross section of Bayview Avenue changes to one lane in each direction between Cedar Drive and Old Mill Road.
- Piccadilly Road is located opposite Old Mill Road at the intersection with Middle Neck Road. Piccadilly Road is a local roadway providing one lane in each direction.
- Wooleys Lane also provides one lane in each direction. The intersection of Wooleys Lane and Middle Neck Road is controlled by a traffic signal located along the site frontage.
- Clover Drive is under the jurisdiction of the Village of Great Neck Estates.

- Allenwood Road is a local roadway under the jurisdiction of the Town of North Hempstead.

The signalized intersections in this area are under the jurisdiction of the Nassau County Department of Public Works.

The area is served by the Long Island Railroad and two Nassau Inter-County Express (NICE) bus routes. These bus routes are the N57 Great Neck Loop and the N58 Great Neck Railroad Station-Kings Point. The N57 bus route travels on Middle Neck Road directly in front of the subject site. The N58 bus route travels on Steamboat Road directly in front of the subject site turning onto or off of Middle Neck Road.

Potential Impacts of Proposed Project – The proposed site will maintain the existing site driveways. The site has one driveway to the north, one in the center of the property and one to the south. The central driveway is known as Millbrook Court.

Following redevelopment, the north and south driveways will be reconfigured. The south driveway will allow entrance only traffic flow from Middle Neck Road. The north driveway will permit exit only traffic flow onto Middle Neck Road. The center driveway/Millbrook Court will maintain two way traffic flow.

The site is anticipated to generate a maximum of 115-trips during the evening peak hour (75-entering and 40-exiting the site).

During the peak hour the proposed site is anticipated to generate one to two trips per minute in any direction.

Based on the low traffic volume increases volumes due to the proposed project, the proposed project should have no perceptible impacts to the surrounding roadway network, with the exception of the North Site Access.

Proposed Mitigation – As part of the redevelopment of this project the North Site Access will become the main exit for the complex. The southbound stop line on Middle Neck Road, at the intersection with Wooleys Lane, is located approximately 65 feet south of the driveway. Approximately six vehicles can queue at the signal (within the two southbound lanes) before blocking the site driveway. It is recommended that “Do Not Block The Box” pavement markings and signage be installed at this location.

3.7.2. Parking

Off-site parking counts of the surrounding area were performed during the three peak periods. Parking observations were conducted on Tuesday, May 12, 2015 between

the hours of 10:00 pm and 11:30 pm. These hours reflect peak demand associated with residential uses. In addition to the parking provided on the subject site parking counts were conducted on Middle Neck Road from Old Mill Road to Clover Drive (on the west) and from Piccadilly Road to Allenwood Road (on the east).

The results of the parking study show that limited on street parking is available in proximity to the subject site in the overnight hours. A minimum of 18 parking spaces in total were available on-site in the north and south parking lots. The parking spaces along Millbrook Court were found to be 100% occupied during these observations.

The parking generation of the proposed development was calculated using the ITE *ITE Parking Generation* manual. Based on the ITE parking generation data, the existing complex consisting of a total of 119 apartment units is anticipated to generate 147 parked vehicles during peak demand. Of these vehicles approximately 13 would need to park off-site.

Based on the ITE parking generation data, the proposed complex consisting of a total of 186 apartment units is anticipated to generate 230 parked vehicles during peak demand. Peak parking demand for residential developments occurs during the overnight hours between 10:00 pm and 5:00 am. The site plans prepared by NDA Architects for the proposed project provides for a total of 314 parking spaces.

Required parking for the proposed project was calculated using the following method: For the 101 new units, parking will comply with VGN Code § 575-155 B.(1)(a), which requires multi-family dwellings to provide two parking spaces for each one-bedroom and two-bedroom unit and three parking spaces for each three-bedroom unit. Therefore, the new units are required to provide 218 new parking spaces.

The existing apartment complex provides approximately 1.13 parking spaces for each apartment unit (134 parking spaces/119 units). Upon completion of the project the site will provide 1.69 parking spaces per unit (314 parking spaces/186 units). The proposed site provides ample parking to accommodate the anticipated demand. Given the increase in on-site parking spaces, the redevelopment of the site is anticipated to reduce on street parking demand to zero in proximity of the site. Based on the statistics compiled by the ITE, the proposed site will have a peak occupancy rate of approximately 75%.

24⁷ of the 314 on-site parking spaces provided will be in tandem with another parking space. Tandem parking is subject to the review and approval of the Board of Trustees as per VGN Code:§ 575-155 B.(1)(d), with the condition that all parking spaces that are in tandem with each other shall be assigned to the same unit, as will be the case for the tandem parking spaces in this complex. Tandem parking has been incorporated into other projects in the Village such as the Versailles apartment complex located directly to the north of the subject site. The tandem parking utilized by the Versailles apartment complex received approval by Board of Trustees.

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

3.8. Noise and Odor Impacts

Existing Conditions – There are currently minor noise levels and odors associated with the existing residential and institutional uses.

Potential Impacts of Proposed Project – A residential apartment building would create noise levels and odors typical of other multi-family developments in the local area.

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

3.9. Impact on Public Health

The redevelopment of an existing apartment complex would not involve impacts to public health.

3.10. Impact on Growth and Character of Community or Neighborhood

3.10.1. Land Use

Existing Conditions – The land uses immediately surrounding the property are primarily residential and institutional. Immediately to the north of the project site, there is a multi-family residential building, Versailles Court (260 Middle Neck Road). To the east of the project site, there are also several multi-family residential buildings and an institutional/religious building. These buildings include: 1 Wooleys Lane, the Hadley Arms apartments (6-8 Wooleys Lane), 221 Middle Neck Road and Shaare Zion of Great Neck (225 Middle Neck Road). Immediately south of the

⁷ Note: The number of tandem parking spaces has been increased from 22 to 24. Approval of tandem parking spaces is subject to Board of Trustees approval.

project site is another institutional/religious building, Young Israel of Great Neck (236 Middle Neck Road). To the west of the project site, land use is predominately single-family residential. There is also a narrow parcel of land dedicated to utility/public water supply that runs just west of the project site's westernmost property line.

Potential Impacts of Proposed Project - The proposed project would not change the land use of the subject property. The redevelopment of an existing apartment complex would be consistent with the surrounding area's numerous multi-family residential and institutional uses. The project would not result in any perceptible impact to the level of service on the surrounding roadway network (with the exception of the North Site Access as discussed in Section 3.7.1.) and would improve the visual environment.

Mitigation Required - There is no mitigation required as the proposed use is entirely compatible with existing uses. That is, the proposed use is a residential apartment building with many other multi-family residential buildings in the immediate vicinity. Other nearby uses, including institutional and single-family residential uses, are compatible and complementary with apartment complexes. A significant number of local residents use alternative methods of transportation, including: commuter train, local bus, walking and bicycling. The project's proximity to the Great Neck LIRR station (less than one mile north) encourages these alternative modes of transportation.

3.10.2. Zoning

Existing Conditions – The project site is located in the Residence E or Apartment zoning district and will utilize incentives available within the Middle Neck Road Multifamily Incentive Overlay District (MNR-MIO). § 575-285 B. of the Village of Great Neck Code describes the MNR-MIO district boundaries as follows: “The boundaries of said district, as shown on the Building Zone Map of the Village of Great Neck, shall be coterminous with the boundaries of the Residence E District.” Adjacent properties to the north and east along Middle Neck Road are also zoned Residence E (Apartment District). To the west of the project site, properties are zoned Residence A. To the south of the project site, zoning is controlled by the Village of Great Neck Estates with properties zoned Residence B and Business D.

Potential Impacts of Proposed Project – The applicant is applying to redevelop a residential apartment building in the Residence E or Apartments District and utilize incentives available within the MNR-MIO.

Following completion, the proposed project would be similar to the many multi-family buildings in the area, including adjacent properties to the north and east of the project site.

The following table outlines compliance with Village zoning requirements.

Table 3-1: Middle Neck Road Multifamily Incentive Overlay District Requirements

| Requirement | Compliance |
|--|--|
| <p>§ 575-286 Use. A building may be erected, altered, or used and a lot or premises may be used for any of the purposes set forth in the underlying district.</p> | <p>The proposed project is a multifamily dwelling, which is permitted in the underlying zoning district (Residence E or Apartments District).</p> |
| <p>§ 575-287 Development incentives. A. Pursuant to the powers set forth in Village Law § 7-703, in recognition of the opportunities to advance a specific physical, cultural, and/or social policy of the Village, in accordance with the Village's Comprehensive Plan, as set forth in this chapter, in coordination with such other community planning mechanisms and/or land use techniques as may be available and appropriate, if any, where an applicant proposes such an opportunity that the Board of Trustees may, from time to time, by resolution, find appropriate and that meets the criteria herein, the Board of Trustees may approve adjustments to any zoning restrictions set forth in this chapter, other than as to use, with such limitations as may be set forth more particularly with regard to the incentive sections for the zoning district within which the premises are located. B. In determining whether or not to grant the adjustment, the Board of Trustees shall consider the following: <ul style="list-style-type: none"> (1) The extent and dollar value of the proposed amenity; (2) The public costs that would otherwise be required to effect the proposed amenity; and (3) The improvement to the immediate neighborhood and/or the Village as a whole from the proposed amenity. C. Payment in lieu of community amenities. <ul style="list-style-type: none"> (1) At the request of the applicant or on its own determination that the identified amenities to the Village are not immediately feasible or otherwise not practical for the applicant to provide, the Board of Trustees may require, in lieu of </p> | <p>The applicant agrees to provide a community amenity or payment in lieu of a community amenity based on the discretion of the Board of Trustees.</p> |

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| <p>the identified amenities, a payment to the Village of a sum determined by the Board of Trustees. Alternatively, the Board may choose to accept a partial amenity and partial payment in lieu of such proposed amenity. If cash is accepted in lieu of a community amenity, provision shall be made for such sum to be deposited in a trust fund to be used by the Board of Trustees exclusively for specific community amenities that could be applied throughout the Village as authorized by the Board of Trustees.</p> <p>(2) Any payment in lieu of community amenities must be received prior to the issuance of a building permit for the construction of the proposed development.</p> | |
| <p>§ 575-288 Limitations on incentives. No incentive shall be granted for an attached townhome or a multifamily dwelling in contravention of any of the following:</p> <p>A. The maximum height for a townhome shall not exceed 30 feet or 22 feet at the eaves.</p> <p>B. No townhome building shall contain more than six townhomes.</p> <p>C. The maximum length of a townhome building shall not exceed 204 feet.</p> <p>D. No horizontal plane of any façade of a townhome building shall exceed 88 feet without a change or break in said plane of at least 10 feet.</p> <p>E. The maximum height for a multifamily dwelling shall not exceed four stories or 42 feet with an area on the roof for recreational use by the tenants of the dwelling (a roof deck). If a roof deck is permitted, it shall be limited to the following restrictions:</p> <p>(1) The roof deck shall not exceed 50% of the roof area.</p> <p>(2) The use of the roof deck shall be limited to the residents of the building and their guests.</p> <p>(3) There shall be no barbequing or other cooking on the roof deck.</p> <p>(4) There shall be no lights, permanent or temporary, on the roof deck other than as approved on the site plan.</p> <p>(5) The roof deck shall be for communal use, with no private areas for individual residents.</p> <p>(6) The roof deck shall have only one lobby, whether for an elevator, a staircase, or both, which shall not exceed an area of 100 square feet. The area of the elevator and/or staircase shall not be considered as part of the lobby for the purpose of calculating the one-hundred-square foot</p> | <p>The proposed project will shall conform to the requirements (§ 575-288 E-G) for multifamily dwellings, as described below. The proposed project will have a maximum building height of 42'. Proposed density will be approximately 42.8 dwelling units per acre. The front yard of the proposed project is approximately 22'7" feet from the property line.</p> |

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| <p>limitation.</p> <p>F. The maximum density for a multifamily dwelling shall not exceed 48 dwellings per acre.</p> <p>G. The minimum front yard shall be 10 feet from the property line and 15 feet from the curb. No incentive shall be given that reduces the ten-foot setback from the property line unless there is a sufficient area of not less than 10 feet between the building and the sidewalk for a landscape buffer (which may be in whole or in part on Village property and which will be landscaped and maintained by the property owner).</p> | |
| <p>§ 575-289 Incentive procedures. Applications seeking increased density or modification of dimensional standards as part of this district's incentive zoning framework shall comply with the procedural requirements outlined in Article XXXI.</p> | <p>The proposed density and dimensional standards comply with the requirements outlined above in § 575-288 of Article XXXII.</p> |

Table 3-2: Residence E (Apartments District) Zoning Requirements

| Requirement | Compliance |
|--|--|
| <p>§ 575-105 Use. A building may be erected, altered, or used and a lot or premises may be used for any of the purposes set forth in this section and for no other:</p> <p>A. Multifamily dwellings, subject to site plan approval by the Board of Trustees.</p> <p>B. Townhomes, subject to site approval by the Board of Trustees.</p> <p>C. Single-family detached dwellings, conforming to all the provisions of Article VIII.</p> <p>D. House of worship or other building used exclusively for religious purposes, parish house, parochial and nonprofit private school when authorized by the Board of Appeals pursuant to the provisions of § 575-190 of this chapter.</p> <p>E. Regularly organized institution of learning approved by the State Board of Regents and supported by public funds, a public library, or public art gallery.</p> <p>F. Government or municipal building, for the administration of or service rendered by the Village government.</p> <p>G. Municipal park, for recreational use.</p> <p>H. Accessory private garage, detached or attached to or within the main building, for the parking of vehicles used for the residential use of the main building.</p> <p>I. Accessory use on same lot, including, but not limited to:</p> <ul style="list-style-type: none"> (1) Real estate office for the management, marketing, and/or sales of the units. (2) Indoor and outdoor recreation facilities, including indoor swimming pools, spas, | <p>The proposed project is a multifamily dwelling.</p> |

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| <p>tennis courts, clubhouses, pool houses, recreation and/or fitness centers, business centers, meeting spaces, and similar facilities, provided that such facilities are planned as an integral part of the principal use and are for the sole use of the residents of such principal use and their guests. (3) Off-street parking areas and garages.</p> | |
| <p>§ 575-106 Height. A. The maximum height for a townhome shall not exceed 30 feet or 22 feet at the eaves. B. The maximum height for a multifamily dwelling shall not exceed 31 feet. C. In the case of a building other than one used for dwelling purposes, the maximum height shall not exceed three stories or 31 feet, except for a spire, dome, or belfry on a house of worship. D. The following encroachments above said maximum heights are hereby permitted: (1) Parapets, not exceeding three feet in vertical distance from base to the highest point or the minimum height required by the New York State Building Code for such parapets, whichever is greater. (2) Stairwell and elevator lobbies, water tanks, chimneys, heating and air-conditioning apparatus, or other mechanical equipment projections occupying less than 10% of the area of the roof and not exceeding 12 feet in vertical distance from base to the highest point. (3) Safety railings or walls required by the New York State Building Code to enclose outdoor living space or decks, not exceeding the minimum height required by the New York State Building Code for such railings or walls.</p> | <p>The proposed building is 42 feet in height. However, a building height of 42' is permitted within the MNR-MIO district. See Table 3-1 above.</p> |
| <p>§ 575-107 Lot sizes for multifamily dwellings and townhomes. No multifamily dwelling or townhome shall be constructed and no existing building shall be converted for use as a multifamily dwelling or townhome on a lot containing an area of less than 20,000 square feet.</p> | <p>The project site is greater than 20,000 square feet (189,481.6 square feet or 4.35 acres in total).</p> |
| <p>§ 575-108 Street frontage for multifamily dwellings and townhomes. No multifamily dwelling or townhome shall be constructed and no existing building shall be converted for use as a multifamily dwelling or townhome on a lot having street frontage of less than 150 feet on one street. For clarification, for a corner lot, 70 feet on one street and 80 feet on another street would not meet the one-hundred-fifty-foot requirement.</p> | <p>The proposed project has street frontage greater than 150 along Middle Neck Road (approximately 500 feet).</p> |

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| <p>§ 575-109 Floor area for multifamily dwellings and townhomes. A. No multifamily dwelling shall provide habitable floor area of less than 600 square feet per unit. B. No townhome shall provide habitable floor area of less than 1,000 square feet per unit.</p> | <p>The proposed multifamily dwelling units will all be greater than 600 square feet per unit.</p> |
| <p>§ 575-110 Density for multifamily dwellings and townhomes. A. The maximum density for a multifamily dwelling shall be at the ratio of 43 dwelling units per acre. B. The maximum density for townhomes shall be at the ratio of 15 dwelling units per acre.</p> | <p>The proposed project would result in a density of 42.8 dwelling units per acre.</p> |
| <p>§ 575-111 Building area for multifamily dwellings and townhomes. A. The building area for multifamily dwellings and townhomes shall not exceed 60% of the lot area. B. The building area for all other uses shall not exceed 35% of the lot area. C. In the discretion of the Board of Trustees, as part of its site plan review, the building area of any structure used solely or primarily for parking, whether attached to or detached from the principal building, may be excluded in whole or in part from the maximum building area provisions of this section.</p> | <p>The building area of the proposed project is 72,152.7 square feet, which represents approximately 38.1% of the 189,481.6 square foot lot.</p> |
| <p>§ 575-112 Front yards. A. There shall be a front yard, the depth of which shall not be less than 15 feet from the property line and 21 feet from the curb, unless otherwise approved by the Board of Trustees. B. On a corner lot, a front yard shall be required on each street, each having a depth of not less than 15 feet from the property line and 21 feet from the curb, unless otherwise approved by the Board of Trustees.</p> | <p>The front yard of the proposed project is approximately 22'7" feet from the property line.</p> |
| <p>§ 575-113 Side yards. The minimum side yard setback for each side yard shall be 10 feet, which area shall be landscaped, except for necessary access drives, parking, and walkways, in accordance with a plan approved as part of the site plan approval.</p> | <p>The minimum side yard of the proposed project is approximately 25'7" feet from the property line.</p> |
| <p>§ 575-114 Rear yards. There shall be a rear yard, the depth of which shall not be less than 25 feet.</p> | <p>The rear yard of the proposed project is approximately 29 feet from the property line (same as existing conditions).</p> |
| <p>§ 575-115 Distance between adjacent buildings. A. The minimum distance between buildings shall be 10 feet. B. Encroachments not exceeding two feet from each building shall be permitted within said ten-foot distance. C. In no event shall the distance between such encroachments be less than eight feet.</p> | <p>0 feet new to existing (same as existing conditions).</p> |

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| <p>§ 575-115.2 Landscaping and buffers. As part of the site plan approval, the Board of Trustees shall require a landscape plan that provides adequate buffer and appropriate design treatment for the uses of the abutting properties.</p> | <p>A landscape plan for the proposed project is provided in Section 2 (Figure 2-9).</p> |
| <p>§ 575-115.3 Permitted encroachments. The following encroachments into required yards are hereby permitted: A. Cornices, eaves, gutters, and chimneys projecting not more than 24 inches. B. Bay windows not more than six feet in width and one story high, projecting not more than three feet. C. One-story open porch or terrace, projecting not more than five feet into a minimum front yard. D. One-story enclosed vestibule, not greater than nine feet in width, projecting not more than 5 1/2 feet into a minimum front yard. E. One-story open porch or terrace, which shall project into a rear yard not more than 10 feet. F. Unenclosed and unroofed platform and steps, designed to provide safe access to grade from service entrance doors, projecting not more than three feet six inches into a minimum side yard. The maximum horizontal surface of any encroaching platform shall not exceed 14 square feet.</p> | <p>N/A</p> |
| <p>§ 575-115.4 Accessory structures. A. Fences shall not exceed four feet in height, except where a lot or premises in this district is contiguous with a lot or premises in a Residence A, A-1, B, C or D District, subject to the limitations set forth in § 575-150 of this chapter. B. Retaining walls shall not extend above the ground that they support. C. Stationary outdoor fireplaces shall be located at least 10 feet from property lines and shall not exceed five feet in height. D. Pergolas shall not exceed 10 feet in height.</p> | <p>N/A</p> |
| <p>§ 575-115.5 Accessory buildings. A. Accessory buildings, except as otherwise provided in this article, shall not be over 15 feet in height at their highest point and shall not occupy more than 40% of the rear yard. B. Unless otherwise provided in this article, accessory buildings or structures shall be located in the rear yard and shall be not less than 10 feet distant from the main building and not less than three feet distant from the rear and side lot lines. C. Unless otherwise provided in this article, accessory buildings or structures on corner lots 100 feet or less in depth shall be located as far as possible from the front property lines. D. No accessory buildings or structures, except fences or retaining walls as hereinabove provided in this article, shall be erected within 20 feet of a</p> | <p>No accessory buildings are proposed.</p> |

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| <p>residential building on an adjoining lot.</p> | |
| <p>§ 575-115.6 Design standards for multifamily dwellings and townhomes. A. For any multifamily or townhome development, the site plan application shall consider any visual impacts of the proposed development on adjacent properties and the surrounding community, including, but not limited to shadowing effects and those guidelines specified in § 575-179. B. In addition, building frontage along a public street should be designed with principal access to the street. If driveways and indoor garages are provided in that area, there should be sufficient space for at least one vehicle to park in the driveway without blocking the sidewalk. Principal pedestrian access should be provided to the multifamily building or townhome from the street.</p> | <p>A. Aerial photography/renderings of the proposed project are provided (Figure 2-16). B. The building frontage of the project along Middle Neck Road will be designed with principal access to the street. There will be sufficient space for vehicle parking in the driveways without blocking the sidewalk. Principal pedestrian access will be provided to the multifamily building from Middle Neck Road.</p> |

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

3.10.3. Growth-Inducing Aspects of the Proposed Project

Existing Conditions – The site is currently developed as a multi-family apartment complex.

Potential Impacts of Proposed Project – The redevelopment of the Millbrook Apartments is expected to induce minimal population growth that will not require any major infrastructure improvements. The residents would be anticipated to utilize existing retail and commercial facilities within the Village but would not be expected to create a demand for additional facilities.

Proposed Mitigation – No mitigation is proposed as no significant adverse impacts are anticipated.

3.10.4. Demand for Additional Community Services

Emergency Services

Existing Conditions – Police protection is provided by the Nassau County Police Department, Third Precinct, located at 214 Hillside Avenue, Williston Park, NY 11596. Fire protection is the responsibility of the Great Neck Alert Fire Company, located at 555 Middle Neck Road, Great Neck, NY 11023. Ambulance service is

provided by the Vigilant Engine & Hook & Ladder Company, located at 83 Cutter Mill Road, Great Neck, NY 11021. Health care is available at the North Shore University Hospital on Community Drive, less than three (3) miles from the proposed apartment complex and Long Island Jewish Hospital, which is less than four (4) miles away on Lakeville Road.

Potential Impacts of Proposed Project – Letters were sent to the Great Neck Alert Fire Company and the Nassau County Police Department, Third Precinct, on March 19, 2015. The Nassau County Police Department, Third Precinct has indicated that they will be able to serve the subject property. A letter was sent to Vigilant Engine and Hook & Ladder Company on March 20, 2015. Follow up letters were sent to both the Great Neck Alert Fire Company and the Vigilant Engine and Hook & Ladder Company on December 10, 2015, June 24, 2016 and July 25, 2017. Copies of all letters and responses are provided in Appendix B. A project description, location map and site plan were also enclosed. In addition, a Fire Truck Access Path Plan (see Figure 2-11) has been developed to ensure that the site is accessible to a typical 49-foot fire truck.

Responses have not been received to date from the Great Neck Alert Fire Company or Vigilant Engine and Hook & Ladder Company. When these letters are received they will be provided to the Village.

Proposed Mitigation – No mitigation is anticipated to be required.

Schools

Existing Conditions – Based upon the Residential Demographic Multipliers issued by Rutgers University, Center for Urban Policy Research for New York, it is estimated that approximately 12 school-age children in public school could be residing onsite under existing conditions. However, based on information provided by the applicant, only 10 school-age children currently reside on-site.

Potential Impacts of Proposed Project – Using the Residential Demographic Multipliers issued by Rutgers University, Center for Urban Policy Research for New York, the redeveloped Millbrook Apartments could become the home to approximately 29 school-aged children in public school as shown in Table 3-3 below. The Rutgers multipliers assume that 20% of the children in a district attend private schools.

Table 3-3: Public School-Age Children Projected for Millbrook Apartments

| Quantity | Unit Type | Grade |
|----------|-----------|-------|
|----------|-----------|-------|

| Rate | | All | K-2 | 3-6 | 7-9 | 10-12 |
|-----------------------|-------------|--------------|-------------|-------------|-------------|-------------|
| - | 1 br/studio | 0.07 | 0.02 | 0.02 | 0.01 | 0.01 |
| - | 2 br | 0.16 | 0.05 | 0.05 | 0.04 | 0.03 |
| - | 3 br | 0.63 | 0.14 | 0.20 | 0.12 | 0.17 |
| Proposed | | All | K-2 | 3-6 | 7-9 | 10-12 |
| 101 | 1 br/studio | 7.07 | 2.02 | 2.02 | 1.01 | 1.01 |
| 68 | 2 br | 10.88 | 3.40 | 3.40 | 2.72 | 2.04 |
| 17 | 3 br | 10.71 | 2.38 | 3.40 | 2.04 | 2.89 |
| Total Proposed | | 28.66 | 7.80 | 8.82 | 5.77 | 5.94 |

District enrollment for the 2015-2016 school year was 6,394 in grades K-12.⁸ A net increase of 19 new students would represent an increase of less than three-tenths of one percent in enrollment. A letter was sent to the Great Neck School District, on March 24, 2015 requesting the ability of the District to accommodate the potential increase in enrollment from the redeveloped apartment complex (a copy of the letter and the district's response is provided in Appendix B).

Proposed Mitigation – With few new students projected (a potential net increase of 19 students), cost and resource impacts to the school district would be minimal as there should not be a need for additional classrooms or teachers.

Utilities

Water

Existing Conditions - The Water Authority of Great Neck North provides water service to the existing apartment complex. The estimated existing water use, based upon water records provided by the applicant, is approximately 11,500 gallons per day.

Potential Impacts of Proposed Project – The proposed project would increase on-site water consumption. The projected water use for the proposed project is approximately 47,400 gallons per day, an estimated net increase of 35,900 gallons per day (see Table 3-4 below).

Letters requesting water availability were sent to the Water Authority of Great Neck North on March 24, 2015, June 29, 2016 and July 25, 2017 (Appendix B). It is anticipated that the Water Authority of Great Neck North will have sufficient capacity exists to accommodate the proposed increase in water usage. The applicant will pay for the design and construction of the connection to the Water Authority.

Table 3-4: Projected Water Use/Sewage Flow

⁸ NYS Education Department. *Great Neck UFSD Enrollment (2013 - 14)*. <<http://data.nysed.gov/enrollment.php?year=2014&instid=800000049062>> Updated 2015.

| Proposed | Quantity | Rate (gpd/unit) | Gallons per day |
|-------------------------------|-----------------|------------------------|------------------------|
| 1 br/studio | 101 units | 200 | 20,200 |
| 2 br | 68 units | 300 | 20,400 |
| 3 br | 17 units | 400 | 6,800 |
| Total Proposed | | | 47,400 |
| Total Existing | | | 11,500 |
| Estimated Net Increase | | | 35,900 |

Proposed Mitigation – Water conservation techniques would be incorporated into the design of the kitchens and bathrooms including low-flow showerheads, faucets, and toilets. It is anticipated that drip irrigation will be used for all planted areas on-site.

Sewage Disposal

Existing Conditions – The property is located within the Great Neck Water Pollution Control District. The estimated average sewage flow generated by the existing uses is approximately 11,500 gallons per day, based on water usage records provided by the applicant.

Potential Impacts of Proposed Project – Wastewater is projected to be roughly equal to water consumption. The estimated future average sewage flow to be generated by the residential development is approximately 47,400 gpd (see Table 3-4 above). This represents a net increase of 35,900 gpd above the existing apartment complex. Letters requesting sewer availability were sent to the Great Neck Water Pollution Control District on March 24, 2015 and July 25, 2017 (Appendix B). It is anticipated that the Great Neck Water Pollution Control Department has capacity at the treatment plant to accept sewage flow from the proposed project. When this letter is received it will be provided to the Village.

Proposed Mitigation – The applicant will pay for the design and construction of the connection to the sewer district. Sewage flow would be moderated through the use of the water conservation methods described in the section on Water, above.

Solid Waste Disposal

Existing Conditions – Solid waste is currently generated by the existing residential apartment complex. Based on the existing unit count, the existing property is

estimated to generate approximately 640 pounds of solid waste per day (160 bedrooms in total x 4 pounds per bedroom per day).⁹

Potential Impacts of Proposed Project – For the proposed project, solid waste production is estimated at four (4) pounds/bedroom per day. In total, the project is estimated to generate approximately 1,152 pounds of solid waste per day which would be collected by a private carter and disposed of at a permitted solid waste management facility (288 bedrooms in total x 4 pounds per bedroom per day).

Proposed Mitigation – Each building will have a garbage chute leading to a trash compactor system. Solid waste would be collected by a private carter and disposed of at a permitted solid waste management facility.

Electricity

Existing Conditions – PSEG currently supplies energy to the existing commercial and residential uses on site and would continue to provide electricity to the new apartment complex.

Potential Impacts of Proposed Project – As a result of the net increase in residential units (67 additional units), an increase in energy consumption would occur as a result of the redevelopment of Millbrook Apartments. The major energy demands of the apartments would be for heating, air conditioning, and lighting.

Proposed Mitigation – Modern energy efficient (Energy Star) appliances and building materials would be incorporated into the design of the apartments.

⁹ Technical Bulletin #85-6, Basic Data: Solid Waste Amounts, Composition and Management Systems, National Solid Waste Management Association, October 1985.

APPENDICES INFORMATION

Appendix A - Full Environmental Assessment Form

Appendix B - Correspondence

Appendix C - Traffic Impact Study

APPENDIX A
ENVIRONMENTAL ASSESSMENT FORM

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

| | | |
|---|--------|------------|
| Name of Action or Project: | | |
| Project Location (describe, and attach a general location map): | | |
| Brief Description of Proposed Action (include purpose or need): | | |
| Name of Applicant/Sponsor: | | Telephone: |
| | | E-Mail: |
| Address: | | |
| City/PO: | State: | Zip Code: |
| Project Contact (if not same as sponsor; give name and title/role): | | Telephone: |
| | | E-Mail: |
| Address: | | |
| City/PO: | State: | Zip Code: |
| Property Owner (if not same as sponsor): | | Telephone: |
| | | E-Mail: |
| Address: | | |
| City/PO: | State: | Zip Code: |

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

| Government Entity | If Yes: Identify Agency and Approval(s) Required | Application Date (Actual or projected) |
|---|--|--|
| a. City Council, Town Board, or Village Board of Trustees <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| c. City Council, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| d. Other local agencies <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| e. County agencies <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| f. Regional agencies <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| g. State agencies <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| h. Federal agencies <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| i. Coastal Resources. <ul style="list-style-type: none"> <li data-bbox="121 829 1542 861">i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input type="checkbox"/> No <li data-bbox="121 892 1542 924">ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input type="checkbox"/> No <li data-bbox="121 924 1542 955">iii. Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- **If Yes**, complete sections C, F and G.
- **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
If Yes, what is the zoning classification(s) including any applicable overlay district?

b. Is the use permitted or allowed by a special or conditional use permit? Yes No

c. Is a zoning change requested as part of the proposed action? Yes No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? _____

b. What police or other public protection forces serve the project site?

c. Which fire protection and emergency medical services serve the project site?

d. What parks serve the project site?

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?

b. a. Total acreage of the site of the proposed action? _____ acres
b. Total acreage to be physically disturbed? _____ acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres

c. Is the proposed action an expansion of an existing project or use? Yes No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? Yes No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? Yes No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

| | <u>One Family</u> | <u>Two Family</u> | <u>Three Family</u> | <u>Multiple Family (four or more)</u> |
|---------------|-------------------|-------------------|---------------------|---------------------------------------|
| Initial Phase | _____ | _____ | _____ | _____ |
| At completion | _____ | _____ | _____ | _____ |
| of all phases | _____ | _____ | _____ | _____ |

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source. _____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? Yes No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will proposed action cause or result in disturbance to bottom sediments? Yes No

If Yes, describe: _____

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No
- Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No

• Do existing sewer lines serve the project site? Yes No
 • Will line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or _____ acres (impervious surface)
 _____ Square feet or _____ acres (parcel size)
 ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

 • If to surface waters, identify receiving water bodies or wetlands: _____

• Will stormwater runoff flow to adjacent properties? Yes No

iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflouorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? **(N/A - Residential Project)** Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade to, an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

| | |
|--|---|
| <p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ | <p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ |
|--|---|

| | |
|---|--|
| <p>m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Provide details including sources, time of day and duration:</p> <p>_____</p> <p>_____</p> | |
| <p>ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe: _____</p> <p>_____</p> | |
| <p>n.. Will the proposed action have outdoor lighting? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:</p> <p>_____</p> <p>_____</p> | |
| <p>ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe: _____</p> <p>_____</p> | |
| <p>o. Does the proposed action have the potential to produce odors for more than one hour per day? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____</p> <p>_____</p> <p>_____</p> | |
| <p>p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Product(s) to be stored _____</p> <p>ii. Volume(s) _____ per unit time _____ (e.g., month, year)</p> <p>iii. Generally describe proposed storage facilities: _____</p> <p>_____</p> | |
| <p>q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe proposed treatment(s):</p> <p>_____</p> <p>_____</p> <p>_____</p> | |
| <p>ii. Will the proposed action use Integrated Pest Management Practices? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> | |
| <p>r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe any solid waste(s) to be generated during construction or operation of the facility:</p> <ul style="list-style-type: none"> • Construction: _____ tons per _____ (unit of time) • Operation : _____ tons per _____ (unit of time) <p>ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:</p> <ul style="list-style-type: none"> • Construction: _____ _____ • Operation: _____ _____ <p>iii. Proposed disposal methods/facilities for solid waste generated on-site:</p> <ul style="list-style-type: none"> • Construction: _____ _____ • Operation: _____ _____ | |

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): _____
 ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

| Land use or Covertypes | Current Acreage | Acreage After Project Completion | Change (Acres +/-) |
|--|-----------------|----------------------------------|--------------------|
| • Roads, buildings, and other paved or impervious surfaces | | | |
| • Forested | | | |
| • Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural) | | | |
| • Agricultural (includes active orchards, field, greenhouse etc.) | | | |
| • Surface water features (lakes, ponds, streams, rivers, etc.) | | | |
| • Wetlands (freshwater or tidal) | | | |
| • Non-vegetated (bare rock, earth or fill) | | | |
| • Other Describe: _____ _____ | | | |

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities:

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes:
i. Has the facility been formally closed? Yes No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ feet

b. Are there bedrock outcroppings on the project site? Yes No
 If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: _____ %
 _____ %
 _____ %

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils: Well Drained: _____ % of site
 Moderately Well Drained: _____ % of site
 Poorly Drained _____ % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ % of site
 10-15%: _____ % of site
 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No
 If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No
 If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100 year Floodplain? Yes No

k. Is the project site in the 500 year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No
 If Yes:
 i. Name of aquifer: _____

| | |
|---|--|
| m. Identify the predominant wildlife species that occupy or use the project site: _____ _____ _____ | |
| n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: <ul style="list-style-type: none"> • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres | |
| o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____ | |
| E.3. Designated Public Resources On or Near Project Site | |
| a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide county plus district name/number: _____ | |
| b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> Source(s) of soil rating(s): _____ | |
| c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ _____ | |
| d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____ | |

| | |
|---|--|
| e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| If Yes: | |
| <i>i.</i> Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District | |
| <i>ii.</i> Name: _____ | |
| <i>iii.</i> Brief description of attributes on which listing is based: _____ | |
| f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| g. Have additional archaeological or historic site(s) or resources been identified on the project site? | |
| If Yes: | |
| <i>i.</i> Describe possible resource(s): _____ | |
| <i>ii.</i> Basis for identification: _____ | |
| h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| If Yes: | |
| <i>i.</i> Identify resource: _____ | |
| <i>ii.</i> Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____ | |
| <i>iii.</i> Distance between project and resource: _____ miles. | |
| i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| If Yes: | |
| <i>i.</i> Identify the name of the river and its designation: _____ | |
| <i>ii.</i> Is the activity consistent with development restrictions contained in 6NYCRR Part 666? | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | |

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name _____ Date _____

Signature David Tupper Title _____



APPENDIX B

CORRESPONDENCE

| Date | From | To | Topic |
|-------------------|---|---|--------------------------------|
| March 24, 2015 | Cameron Engineering & Associates, LLP | Water Authority of Great Neck North | Water Availability |
| March 24, 2015 | Cameron Engineering & Associates, LLP | Great Neck Water Pollution Control District | Sewer Availability |
| March 19, 2015 | Cameron Engineering & Associates, LLP | Nassau County Police Department, Third Precinct | Police Availability |
| March 24, 2015 | Nassau County Police Department, Third Precinct | Cameron Engineering & Associates, LLP | Police Availability |
| March 19, 2015 | Cameron Engineering & Associates, LLP | Great Neck Alert Fire Company | Fire Response Availability |
| March 20, 2015 | Cameron Engineering & Associates, LLP | Vigilant Fire Company | Ambulance Service Availability |
| March 24, 2015 | Cameron Engineering & Associates, LLP | Great Neck School District | School District Impacts |
| April 1, 2015 | Great Neck School District | Cameron Engineering & Associates, LLP | School District Impacts |
| December 10, 2015 | Cameron Engineering & Associates, LLP | Great Neck Alert Fire Company | Fire Response Availability |
| December 10, 2015 | Cameron Engineering & Associates, LLP | Vigilant Fire Company | Ambulance Service Availability |
| June 24, 2016 | Cameron Engineering & Associates, LLP | Great Neck Alert Fire Company | Fire Response Availability |
| June 24, 2016 | Cameron Engineering & Associates, LLP | Vigilant Fire Company | Ambulance Service Availability |
| June 29, 2016 | Cameron Engineering & Associates, LLP | Water Authority of Great Neck North | Water Availability |
| July 25, 2017 | Cameron Engineering & Associates, LLP | Great Neck Alert Fire Company | Fire Response Availability |
| July 25, 2017 | Cameron Engineering & Associates, LLP | Vigilant Fire Company | Ambulance Service Availability |
| July 25, 2017 | Cameron Engineering & Associates, LLP | Water Authority of Great Neck North | Water Availability |
| July 25, 2017 | Cameron Engineering & Associates, LLP | Great Neck Water Pollution Control District | Sewer Availability |



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Chief Financial Officer
Michael A. Neal, CPA

March 24, 2015

Gregory C. Graziano, Superintendent
Water Authority of Great Neck North
50 Watermill Lane
Great Neck, NY 11021

Re: Millbrook Apartments (240-250 Middle Neck Road) - Request for Water Availability
Village of Great Neck, NY
CE 2508

Dear Mr. Graziano:

This correspondence is forwarded requesting water availability from the Water Authority of Great Neck North for the above referenced residential development. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex located at 240-250 Middle Neck Road in the Village of Great Neck. The existing complex is proposed to be modified by removing 16 units and adding an additional 94 units (net gain of 78 residential units). Based upon preliminary design, the proposed project would include 79 one-bedroom units and 118 two-bedroom units for a total of 197 residential units (see attached Site Plan and Location Map).

As shown in the table below, the estimated average water demand generated by the existing uses is 29,600 gallons per day (gpd). The estimated future average water demand to be generated by the residential development is 51,200 gpd (see table below). This represents a net increase of 21,600 gpd above the existing apartment complex.

| Existing | Quantity | gpd/unit | Gallons per day |
|-----------------------|-----------|----------|-----------------|
| 1 br | 61 units | 200 | 12,200 |
| 2 br | 58 units | 300 | 17,400 |
| Total Existing | | | 29,600 |
| Proposed | Quantity | gpd/unit | Gallons per day |
| 1 br | 79 units | 200 | 15,800 |
| 2 br | 118 units | 300 | 35,400 |
| Total Proposed | | | 51,200 |
| Net Increase | | | 21,600 |

Calculations based on rates specified in the Nassau County Department of Public Works Sewage Flow Chart.

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*Gregory C. Graziano, Superintendent
Millbrook Apartments – 240-250 Middle Neck Road*

*March 24, 2015
Page 2 of 2*

Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office.

Sincerely,

A handwritten signature in black ink that reads "David J. Tepper". The signature is fluid and cursive, with a long horizontal stroke extending from the end of the name.

David J. Tepper
Planner

Enclosures:
Site Plan
Aerial/Location Map



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 Andrew L. Narus, P.E.

Chief Financial Officer
 Michael A. Neal, CPA

March 24, 2015

Christopher D. Murphy, Superintendent
 Great Neck Water Pollution Control District
 236 East Shore Road
 Great Neck, NY 11023

Re: Millbrook Apartments (240-250 Middle Neck Road) - Request for Sewer Availability
 Village of Great Neck, NY
 CE 2508

Dear Mr. Murphy:

This correspondence is forwarded requesting sewer availability into the Great Neck Water Pollution Control District (GNWPCD) for the above referenced residential development. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex located at 240-250 Middle Neck Road in the Village of Great Neck. The existing complex is proposed to be modified by removing 16 units and adding an additional 94 units (net gain of 78 residential units). Based upon preliminary design, the proposed project would include 79 one-bedroom units and 118 two-bedroom units for a total of 197 residential units (see attached Site Plan and Location Map).

As shown in the table below, the estimated average sewage flow generated by the existing uses is 29,600 gallons per day (gpd). The estimated future average sewage flow to be generated by the residential development is approximately 51,200 gpd (see table below). This represents a net increase of 21,600 gpd above the existing apartment complex.

| Existing | Quantity | gpd/unit | Gallons per day |
|-----------------------|-----------|----------|-----------------|
| 1 br | 61 units | 200 | 12,200 |
| 2 br | 58 units | 300 | 17,400 |
| Total Existing | | | 29,600 |
| Proposed | Quantity | gpd/unit | Gallons per day |
| 1 br | 79 units | 200 | 15,800 |
| 2 br | 118 units | 300 | 35,400 |
| Total Proposed | | | 51,200 |
| Net Increase | | | 21,600 |

Calculations based on rates specified in the Nassau County Department of Public Works Sewage Flow Chart.

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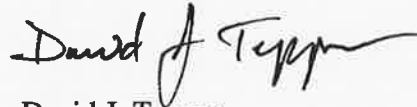
CAMERON ENGINEERING

*Christopher D. Murphy, Superintendent
Millbrook Apartments – 240-250 Middle Neck Road*

*March 24, 2015
Page 2 of 2*

Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office.

Very truly yours,



David J. Tepper
Planner

Enclosures:

Aerial/Location Map
Site Plan



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March 19, 2015

Commanding Officer Inspector Sean M. McCarthy
Nassau County Police Department, Third Precinct
214 Hillside Avenue
Williston Park, NY 11596

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508

Dear Inspector McCarthy:

Cameron Engineering & Associates, LLP is conducting a study of the potential impacts of the proposed redevelopment of an existing apartment complex (Millbrook Apartments) located at 240-250 Middle Neck Road in the Village of Great Neck. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex located at 240-250 Middle Neck Road in the Village of Great Neck. The existing complex is proposed to be modified by removing 16 units and adding an additional 94 units (net gain of 78 residential units). Upon completion, the proposed project would include a total of 197 residential units.

Please advise regarding your department's ability to properly serve the proposed redevelopment of the site.

A proposed site plan and location map are attached for your reference. Please provide us with the requested information at your earliest possible convenience.

Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office. Thank you for your assistance with this matter.

Sincerely,

David J. Tepper
Planner

Enclosures:
Site Plan
Aerial Location Map

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Nassau County



Police Department

EDWARD P. MANGANO
COUNTY EXECUTIVE

1490 Franklin Avenue
Mineola, New York 11501
(516) 573-8800

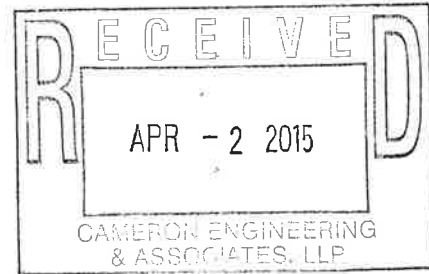
THOMAS C. KRUMPTER
ACTING COMMISSIONER

Third Precinct
214 Hillside Ave
Williston Park, NY 11596

March 24, 2015

David J. Tepper
Cameron Engineering & Associates, LLP
100 Sunnyside Boulevard
Woodbury, N.Y. 11797

RE: Request for Resource Availability
Redevelopment of Millbrook Apartments
240-250 Middle Neck Road, Great Neck
CE 2508



Dear Mr. Tepper,

This is in response to your Request for Resource Availability regarding a proposed redevelopment and addition of (78) new residential units at the Millbrook Apartments complex located at 240-250 Middle Neck Road, Great Neck. The following are responses as it relates to the Nassau County Police Department and the services that we provide:

1. The subject property is within the jurisdiction of the Third Precinct.
2. The nearest police station to the site would be the Third Precinct Policing Center, Nassau County Police Department, located at 100 Community Dr., Manhasset N.Y. 11030.
3. Police protection will continue to be provided at the same level of service as it is presently. The increase in additional residents within this area will obviously result in a greater number of calls for service from our department. It will not, however, adversely affect our abilities to promptly respond and provide all necessary services to this apartment complex.

If you require any additional information in regards to your Request for Resource Availability, or the abilities of the Nassau County Police Department to provide required services, please feel free to contact me at 516-573-6348.


Sincerely,
Robert Johnston
Administrative Sergeant



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(National Council of Engineering Companies)

March 19, 2015

Chief Raymond Plakstis
Alert Engine, Hook, Ladder and Hose Co., No. 1, Inc.
555 Middle Neck Road
Great Neck, New York 11023

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508


Dear Chief Plakstis:

Cameron Engineering & Associates, LLP is conducting a study of the potential impacts of the proposed redevelopment of an existing apartment complex (Millbrook Apartments) located at 240-250 Middle Neck Road in the Village of Great Neck. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex located at 240-250 Middle Neck Road in the Village of Great Neck. The existing complex is proposed to be modified by removing 16 units and adding an additional 94 units (net gain of 78 residential units). Upon completion, the proposed project would include a total of 197 residential units.

Please advise regarding your department's ability to properly serve the proposed redevelopment of the site.

A proposed site plan and location map are attached for your reference. Please provide us with the requested information at your earliest possible convenience.

Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office. Thank you for your assistance with this matter.

Sincerely,

David J. Tepper
Planner

Enclosures:

Site Plan
Aerial Location Map

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American Council of Engineering Companies

March 20, 2015

Chief Laurence Jacobs
Vigilant Engine and Hook & Ladder Co., Inc.
83 Cutter Mill Road
Great Neck, NY 11021

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508

Dear Inspector McCarthy:

Cameron Engineering & Associates, LLP is conducting a study of the potential impacts of the proposed redevelopment of an existing apartment complex (Millbrook Apartments) located at 240-250 Middle Neck Road in the Village of Great Neck. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex located at 240-250 Middle Neck Road in the Village of Great Neck. The existing complex is proposed to be modified by removing 16 units and adding an additional 94 units (net gain of 78 residential units). Upon completion, the proposed project would include a total of 197 residential units.

Please advise regarding your department's ability to provide ambulance service for the proposed redevelopment of the site.

A proposed site plan and location map are attached for your reference. Please provide us with the requested information at your earliest possible convenience.

Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office. Thank you for your assistance with this matter.

Sincerely,

David J. Tepper
Planner

Enclosures:
Site Plan
Aerial Location Map

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American Council of Engineering Companies

March 24, 2015

Dr. Thomas P. Dolan, Superintendent
Great Neck School District
345 Lakeville Road
Great Neck, NY 11020

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508

Dear Dr. Dolan:

Cameron Engineering & Associates, LLP is conducting a study of the potential impacts of the proposed redevelopment of an existing apartment complex (Millbrook Apartments) located at 240-250 Middle Neck Road in the Village of Great Neck. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex located at 240-250 Middle Neck Road in the Village of Great Neck. The existing complex is proposed to be modified by removing 16 units and adding an additional 94 units (net gain of 78 residential units). Based up preliminary design, the proposed project would include 79 one-bedroom units and 118 two-bedroom units for a total of 197 residential units (see attached Site Plan and Location Map). The proposed apartment building is located within the Great Neck School District.

Based on the *Residential Demographic Multipliers for New York*, issued by Rutgers University, Center for Urban Policy Research, the proposed project could become home to approximately 24 public school-age children, i.e., 7.48 for grades K-2, 7.48 for grades 3-6, 5.51 for grades 7-9 and 4.33 for grades 10-12. Based upon the same *Residential Demographic Multipliers*, the existing apartment complex could be home to an estimated 14 public school-age children. This represents a net increase of approximately 10 public school-age children. Please advise regarding your district's ability to accommodate the students from the proposed apartment building.

Please provide us with the requested information at your earliest possible convenience. Should you have any questions or require additional information, please feel free to contact me at (516) 224-5224. Thank you for your assistance with this matter.

Sincerely,

David J. Tepper
Planner

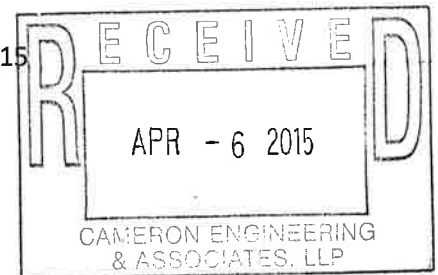
Enclosures:
Site Plan
Aerial Location Map

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GREAT NECK PUBLIC SCHOOLS
345 Lakeville Road
Great Neck, New York 11020
Telephone (516) 441-4020
Fax (516) 441-4922

John T. Powell
Assistant Superintendent for Business

April 1, 2015



Mr. David J. Tepper
Cameron Engineering & Associates, LLP
100 Sunnyside Blvd, Ste 100
Woodbury, NY 11797

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508

Dear Mr. Tepper:

In an answer to your letter of March 24, 2015 requesting the Great Neck Public School District's availability to accommodate the possibility of an additional 10 new students (spread out among grades Kindergarten through 12th grade) from the redevelopment of the Millbrook Apartments, the answer is yes, the District has the availability.

If you have any additional questions please feel free to contact my office.

Sincerely,



John T. Powell
Assistant Superintendent

JTP/md

CameronEngineeringApril115



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December 10, 2015

Chief James E. Neubert
Alert Engine, Hook, Ladder and Hose Co., No. 1, Inc.
555 Middle Neck Road
Great Neck, New York 11023

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508

Dear Chief Neubert:

Cameron Engineering & Associates, LLP is conducting a study of the potential impacts of the proposed redevelopment of an existing apartment complex (Millbrook Apartments) located at 240-250 Middle Neck Road in the Village of Great Neck. We previously sent a letter on March 19, 2015 regarding this project – please note that the project has been revised slightly since then. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex. The existing complex is proposed to be modified by removing 18 units and adding an additional 101 units (net gain of 83 residential units). Upon completion, the proposed project would include a total of 202 residential units and 326 parking spaces.

Please advise regarding your department's ability to provide fire service for the proposed redevelopment of the site.

A proposed site plan, construction logistics plan and location map are attached for your reference. Please provide us with the requested information at your earliest possible convenience. Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office. Thank you for your assistance with this matter.

Sincerely,

David J. Tepper
Planner

Enclosures:

Site Plan
Construction Logistics Plan
Aerial Location Map

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Chief Financial Officer
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December 10, 2015

Chief Joshua Forst
Vigilant Engine and Hook & Ladder Co., Inc.
83 Cutter Mill Road
Great Neck, NY 11021

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508

Dear Chief Forst:

Cameron Engineering & Associates, LLP is conducting a study of the potential impacts of the proposed redevelopment of an existing apartment complex (Millbrook Apartments) located at 240-250 Middle Neck Road in the Village of Great Neck. We previously sent a letter on March 20, 2015 regarding this project – please note that the project has been revised slightly since then. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex. The existing complex is proposed to be modified by removing 18 units and adding an additional 101 units (net gain of 83 residential units). Upon completion, the proposed project would include a total of 202 residential units and 326 parking spaces.

Please advise regarding your department's ability to provide ambulance service for the proposed redevelopment of the site.

A proposed site plan, construction logistics plan and location map are attached for your reference. Please provide us with the requested information at your earliest possible convenience.

Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office. Thank you for your assistance with this matter.

Sincerely,

David J. Tepper
Planner

Enclosures:
Site Plan
Construction Logistics Plan
Aerial Location Map

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Chief Financial Officer
Michael A. Neal, CPA



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Michael A. De Giglio, R.L.A.

June 24, 2016

Chief James E. Neubert
Alert Engine, Hook, Ladder and Hose Co., No. 1, Inc.
555 Middle Neck Road
Great Neck, New York 11023

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508


Dear Chief Neubert:

Cameron Engineering & Associates, LLP is conducting a study of the potential impacts of the proposed redevelopment of an existing apartment complex (Millbrook Apartments) located at 240-250 Middle Neck Road in the Village of Great Neck. We previously sent letters on March 19, 2015 and December 10, 2015 regarding this project. The project will involve the redevelopment of an existing 119-unit apartment complex. The existing complex is proposed to be modified by removing 18 units and adding an additional 101 units (net gain of 83 residential units). Upon completion, the proposed project would include a total of 202 residential units and 326 parking spaces.

In addition to submitting written requests for service availability, Mr. Andrew DeMartin has met with Alert Engine, Hook, Ladder and Hose Co., No. 1, Inc. to discuss any potential concerns about the proposed redevelopment. Based on these conversations, the proposed project has been modified and mitigation measures have been developed to ensure adequate fire service protection. Specifically, balconies have been removed from multiple buildings/access routes to ensure that a 49' fire truck could service the site. In addition, after reviewing the project phasing plan with the department, it was determined that on-site security will be provided during the construction phases to ensure fire safety and protection.

Please advise regarding your department's ability to provide fire service for the proposed redevelopment of the site. Previous letters, including a proposed site plan, fire truck access path plan, construction logistics plan, and location map are attached for your reference. Please provide us with the requested information at your earliest possible convenience. Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office. Thank you for your assistance with this matter.

Sincerely,


David J. Tepper
Planner

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www.cameronengineering.com

CAMERON ENGINEERING

CC:

Andrew DeMartin

Enclosures:

Site Plan

Fire Truck Access Path Plan

Construction Logistics Plan

Aerial Location Map

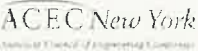
Previous Letters

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Michael A. De Giglio, R.L.A.

June 24, 2016

Chief Joshua Forst
Vigilant Engine and Hook & Ladder Co., Inc.
83 Cutter Mill Road
Great Neck, NY 11021

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508

Dear Chief Forst:

Cameron Engineering & Associates, LLP is conducting a study of the potential impacts of the proposed redevelopment of an existing apartment complex (Millbrook Apartments) located at 240-250 Middle Neck Road in the Village of Great Neck. We previously sent letters on March 19, 2015 and December 10, 2015 regarding this project. The project will involve the redevelopment of an existing 119-unit apartment complex. The existing complex is proposed to be modified by removing 18 units and adding an additional 101 units (net gain of 83 residential units). Upon completion, the proposed project would include a total of 202 residential units and 326 parking spaces.

In addition to submitting written requests for service availability, Mr. Andrew DeMartin has met with Vigilant Engine and Hook & Ladder Co., Inc. to discuss any potential concerns about the proposed redevelopment. Based on these conversations, the proposed project has been modified and mitigation measures have been developed to ensure adequate emergency services. Specifically, balconies have been removed from multiple buildings/access routes to ensure that a 49' fire truck could service the site. In addition, after reviewing the project phasing plan with the department, it was determined that on-site security will be provided during the construction phases to ensure adequate service and protection.

Please advise regarding your department's ability to provide ambulance service for the proposed redevelopment of the site.

Previous letters, including a proposed site plan, fire truck access path plan, construction logistics plan, and location map are attached for your reference. Please provide us with the requested information at your earliest possible convenience. Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office. Thank you for your assistance with this matter.

Sincerely,

David J. Tepper
Planner

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www.cameronengineering.com

CAMERON ENGINEERING

CC:

Andrew DeMartin

Enclosures:

Site Plan

Fire Truck Access Path Plan

Construction Logistics Plan

Aerial Location Map

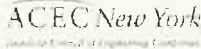
Previous Letters

K:\C2500-2549\CE2508 - Millbrook Apts\Community Service Letters\L 121015 to Vigilant.doc



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 Michael A. De Giglio, R.L.A.

June 29, 2016

Gregory C. Graziano, Superintendent
 Water Authority of Great Neck North
 50 Watermill Lane
 Great Neck, NY 11021

Re: Millbrook Apartments (244 Middle Neck Road) - Request for Water Availability
 Village of Great Neck, NY
 CE 2508

Dear Mr. Graziano:

This correspondence is forwarded requesting water availability from the Water Authority of Great Neck North for the above referenced residential development. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex located at 244 Middle Neck Road in the Village of Great Neck (Section: 2 Block: 354 Lot: 138). We previously sent a letter requesting water availability on March 24, 2015. The project will involve the redevelopment of an existing 119-unit apartment complex. The existing complex is proposed to be modified by removing 18 units and adding an additional 101 units (net gain of 83 residential units). Upon completion, the proposed project would include a total of 202 residential units and 326 parking spaces

As shown in the table below, the estimated average water demand generated by the existing uses is 27,900 gallons per day (gpd). The estimated future average water demand to be generated by the residential development is 47,600 gpd (see table below). This represents a net increase of 19,700 gpd above the existing apartment complex. The proposed service will utilize a minimum pipe size of four inches (4") for domestic service and a pipe size of six inches (6") for fire service.

| Existing | Quantity | Rate (gpd/unit) | Gallons per day |
|-------------------------------|-----------|-----------------|-----------------|
| 1 br/studio | 78 units | 200 | 15,600 |
| 2 br | 41 units | 300 | 12,300 |
| Total Existing | | | 27,900 |
| Proposed | Quantity | Rate (gpd/unit) | Gallons per day |
| 1 br | 106 units | 200 | 21,200 |
| 2 br | 88 units | 300 | 26,400 |
| 3 br | 8 units | 400 | 3,200 |
| Total Proposed | | | 47,600 |
| Estimated Net Increase | | | 19,700 |

Calculations based on rates specified in the Nassau County Department of Public Works Sewage Flow Chart.

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Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office.

Sincerely,

A handwritten signature in black ink that reads "David J. Tepper". The signature is fluid and cursive, with the first name "David" and last name "Tepper" clearly legible.

David J. Tepper
Planner

Enclosures:
Site Plan (Five Copies)
Aerial/Location Map



CAMERON ENGINEERING & ASSOCIATES, L.L.P.

177 Crossways Park Drive Woodbury, NY 11797 (516) 827-4900
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Active Member of **ACEC New York**
American Council of Engineering and Computing Professionals

July 25, 2017

Chief James E. Neubert
Alert Engine, Hook, Ladder and Hose Co., No. 1, Inc.
555 Middle Neck Road
Great Neck, New York 11023

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508

Dear Chief Neubert:

Cameron Engineering & Associates, LLP is conducting a study of the potential impacts of the proposed redevelopment of an existing apartment complex (Millbrook Apartments) located at 240-250 Middle Neck Road in the Village of Great Neck. We previously sent letters on March 19, 2015, December 10, 2015 and June 24, 2016 regarding this project. However, please note that since the last letter was sent, the project has been revised to reduce overall density – with fewer units and on-site parking spaces compared to previous plans.

The project will involve the redevelopment of an existing 119-unit apartment complex. The existing complex is proposed to be modified by removing 33 units and adding an additional 100 units (net gain of 67 residential units). Upon completion, the proposed project would include a total of 186 residential units and 302 parking spaces. A project location map, proposed site plan and fire truck access path plan are attached for your reference.

Please advise regarding your department's ability to provide fire service for the proposed redevelopment of the site at your earliest possible convenience. Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office. Thank you for your assistance with this matter.

Sincerely,

David J. Tepper, AICP
Planner

CC:
Paul J. Bloom, Harras Bloom & Archer, LLP

Enclosures:
Project Location Map
Site Plan
Fire Truck Access Path Plan

Managing Partner
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Senior Partner
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July 25, 2017

Chief Joshua Forst
Vigilant Engine and Hook & Ladder Co., Inc.
83 Cutter Mill Road
Great Neck, NY 11021

Re: Request for Resource Availability
Redevelopment of Millbrook Apartments (240-250 Middle Neck Road)
Village of Great Neck, NY
CE 2508

Dear Chief Forst:

Cameron Engineering & Associates, LLP is conducting a study of the potential impacts of the proposed redevelopment of an existing apartment complex (Millbrook Apartments) located at 240-250 Middle Neck Road in the Village of Great Neck. We previously sent letters on March 19, 2015, December 10, 2015 and June 24, 2016 regarding this project. However, please note that since the last letter was sent, the project has been revised to reduce overall density – with fewer units and on-site parking spaces compared to previous plans.

The project will involve the redevelopment of an existing 119-unit apartment complex. The existing complex is proposed to be modified by removing 33 units and adding an additional 100 units (net gain of 67 residential units). Upon completion, the proposed project would include a total of 186 residential units and 302 parking spaces. A project location map, proposed site plan and fire truck access path plan are attached for your reference.

Please advise regarding your department's ability to provide ambulance service for the proposed redevelopment of the site at your earliest possible convenience. Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office. Thank you for your assistance with this matter.

Sincerely,

David J. Tepper, AICP
Planner

CC:
Paul J. Bloom, Harras Bloom & Archer, LLP

Enclosures:
Project Location Map
Site Plan
Fire Truck Access Path Plan

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Michael A. De Giglio, R.L.A.

July 25, 2017

Gregory C. Graziano, Superintendent
Water Authority of Great Neck North
50 Watermill Lane
Great Neck, NY 11021

Re: Millbrook Apartments (240-250 Middle Neck Road) - Request for Water Availability
Village of Great Neck, NY
CE 2508

Dear Mr. Graziano:

This correspondence is the third request for water availability from the Water Authority of Great Neck North for the above referenced residential development. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex located at 240-250 Middle Neck Road in the Village of Great Neck (Section: 2 Block: 354 Lot: 138).

We previously sent letters requesting water availability on March 24, 2015 and June 29, 2016 with no response. Since the last letter was sent, the overall density of the project has been reduced to include fewer residential units and fewer on-site parking spaces. The existing complex is proposed to be modified by removing 33 units and adding an additional 100 units (net gain of 67 residential units). Upon completion, the proposed project would include a total of 186 residential units and 302 parking spaces. A project location map and five copies of the proposed site plan are attached for your reference.

As shown in the table below, the estimated average water demand generated by the existing uses is 27,900 gallons per day (gpd). The estimated future average water demand to be generated by the residential development is 45,000 gpd (see table below). This represents a net increase of 17,100 gpd above the existing apartment complex. The proposed service will utilize a minimum pipe size of four inches (4") for domestic service and a pipe size of six inches (6") for fire service.

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| Existing | Quantity | Rate (gpd/unit) | Gallons per day |
|-------------------------------|-----------|-----------------|-----------------|
| 1 br/studio | 78 units | 200 | 15,600 |
| 2 br | 41 units | 300 | 12,300 |
| Total Existing | | | 27,900 |
| Proposed | Quantity | Rate (gpd/unit) | Gallons per day |
| 1 br | 112 units | 200 | 22,400 |
| 2 br | 70 units | 300 | 21,000 |
| 3 br | 4 units | 400 | 1,600 |
| Total Proposed | | | 45,000 |
| Estimated Net Increase | | | 17,100 |

Calculations based on rates specified in the Nassau County Department of Public Works Sewage Flow Chart.

Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office.

Sincerely,



David J. Tepper, AICP
Planner

CC:
Paul J. Bloom, Harras Bloom & Archer, LLP

Enclosures:
Site Plan (Five Copies)
Aerial/Location Map



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Michael A. De Giglio, R.L.A.

July 25, 2017

Christopher D. Murphy, Superintendent
Great Neck Water Pollution Control District
236 East Shore Road
Great Neck, NY 11023

Re: Millbrook Apartments (240-250 Middle Neck Road) - Request for Sewer Availability
Village of Great Neck, NY
CE 2508

Dear Mr. Murphy:

This correspondence is the second request for sewer availability into the Great Neck Water Pollution Control District (GNWPCD) for the above referenced residential development. Specifically, the project will involve the redevelopment of an existing 119-unit apartment complex located at 240-250 Middle Neck Road in the Village of Great Neck (Section: 2 Block: 354 Lot: 138).

We previously sent a letter requesting sewer availability on March 24, 2015 with no response. Since the last letter was sent, the overall density of the project has been reduced to include fewer residential units and fewer on-site parking spaces. The existing complex is proposed to be modified by removing 33 units and adding an additional 100 units (net gain of 67 residential units). Upon completion, the proposed project would include a total of 186 residential units and 302 parking spaces. A project location map and a copy of the proposed site plan are attached for your reference

As shown in the table below, the estimated average sewage flow generated by the existing uses is 27,900 gallons per day (gpd). The estimated future average sewage flow to be generated by the residential development is approximately 45,000 gpd (see table below). This represents a net increase of 17,100 gpd above the existing apartment complex.

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Christopher D. Murphy, Superintendent
Millbrook Apartments – 240-250 Middle Neck Road

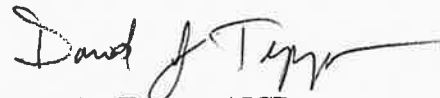
July 25, 2017
Page 2 of 2

| Existing | Quantity | gpd/unit | Gallons per day |
|-----------------------|-----------|----------|-----------------|
| 1 br | 78 units | 200 | 15,600 |
| 2 br | 41 units | 300 | 12,300 |
| Total Existing | | | 27,900 |
| Proposed | Quantity | gpd/unit | Gallons per day |
| 1 br | 112 units | 200 | 22,400 |
| 2 br | 70 units | 300 | 21,000 |
| 3 br | 4 units | 400 | 1,600 |
| Total Proposed | | | 45,000 |
| Net Increase | | | 17,100 |

Calculations based on rates specified in the Nassau County Department of Public Works Sewage Flow Chart.

Should you have any questions or require additional information in order to provide a letter of availability, please feel free to contact our office.

Very truly yours,



David J. Tepper, AICP
Planner

CC:

Paul J. Bloom, Harras Bloom & Archer, LLP

Enclosures:

Aerial/Location Map
Site Plan

APPENDIX C
TRAFFIC STUDY



MULRYAN
ENGINEERING, P.C.

TRAFFIC ENGINEERING REPORT

THE MILLBROOK
APARTMENT COMPLEX
MIDDLE NECK ROAD

VILLAGE OF GREAT NECK

TOWN OF NORTH HEMPSTEAD
NASSAU COUNTY

PROJECT No. M15-012
MARCH 2018

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EXECUTIVE SUMMARY

- Mulryan Engineering, P.C. has prepared a traffic engineering analysis of the roadway network surrounding the site of the proposed residential development located on the west side of Middle Neck Road between Clover Drive and Old Mill Road. The site is in the Village of Great Neck. The Village of Great Neck is located within the Town of North Hempstead in Nassau County, New York.
- The subject property is currently developed with a 119 apartment units and 134 parking spaces. The overall project site is 4.35 acres (189,480 square feet).
- The proposed project will improve the site with a total of 186 apartment units and 314 parking spaces. In accordance with the Village of Great Neck zoning requirements, the proposed development requires 314 parking spaces. The proposed site design meets the requirements of the code.
- A total of 101 new units will be constructed within three proposed buildings. A total of 34 existing units will be removed as part of the proposed development.
- The proposed site will maintain the existing site driveways. The site has one driveway to the north, one in the center of the property and one to the south. The central driveway is known as Millbrook Court.
- The north and south driveways will be reconfigured. The south driveway will allow entrance only traffic flow from Middle Neck Road. The north driveway will permit exit only traffic flow onto Middle Neck Road. The center driveway/Millbrook Court will maintain two way traffic flow.
- The site access design and parking configuration is illustrated on the site plan set prepared by Newman Design Architects, PLLC. The site access design requires the review and approval of the Village of Great Neck and the Nassau County Department of Public Works.
- It is recommended that “Do Not Block The Box” pavement markings and signage be installed at the North Site Access. No mitigation measures were found to be warranted at the surrounding study intersections. The Highway Capacity Analysis shows that the traffic generated by the proposed development will have no perceptible impact on the level of service at the surrounding study intersections. Based on our traffic engineering analysis contained within, the proposed development will have no adverse impact to the surrounding roadway network.

STUDY METHODOLOGY

The traffic engineering analysis prepared for this project serves as the basis for this report and the recommendations and conclusions contained within. This report is based on the recommended guidelines and practices outlined by the Institute of Transportation Engineers (ITE). This study identifies the changes in traffic movements along the adjacent roadway network which will occur as a result of the proposed development and identifies the potential impact of the future build condition on the adjacent street system. The report analyzes the following information:

- A review of the existing roadway and traffic conditions in the vicinity of the site including roadway geometry, traffic volumes, signal operations, and intersection capacities;
- A detailed review of the existing traffic volumes and travel patterns on the roadway network surrounding the site and a determination of the existing peak hour volumes during each of the time periods studied;
- Calculations of the projected ambient background traffic growth on the existing roadways;
- A review of the trip generation of other projects planned in proximity to the study area;
- Trip generation analysis of the volume of traffic expected to be generated by the proposed residential development;
- Highway capacity analysis of the existing and future traffic volumes considering the development of the site under future build conditions;
- An analysis of proposed driveway configuration, parking, and overall site layout in regards to access and internal circulation; and
- The results, findings and conclusions of our traffic engineering analysis of the existing roadway network and the future conditions based on the traffic characteristics of the proposed development of the subject site.

EXISTING CONDITIONS

EXISTING ROADWAY NETWORK

Figure No. 1 shows the roadway network and the area surrounding the subject site. The following provides a description of the key roadways located in proximity to the subject site.

Middle Neck Road provides two lanes in each direction and provides for on-street parking. Middle Neck Road is located to the east of the subject property. Middle Neck Road is under the jurisdiction of the Nassau County Department of Public Works.

Old Mill Road is located just north of the subject site. Old Mill Road connects to Bayview Avenue to the west. Bayview Avenue runs parallel to Middle Neck Road and is one of the key routes within the area. Bayview Avenue provides two lanes in each direction with turn lanes at key intersections. The cross section of Bayview Avenue changes to one lane in each direction between Cedar Drive and Old Mill Road.

Piccadilly Road is located opposite Old Mill Road at the intersection with Middle Neck Road. Piccadilly Road is a local roadway providing one lane in each direction.

Wooleys Lane provides one lanes in each direction. The intersection of Wooleys Lane and Middle Neck Road is controlled by a traffic signal located along the site frontage.

Clover Drive is under the jurisdiction of the Village of Great Neck Estates. Allenwood Road is a local roadway under the jurisdiction of the Town of North Hempstead.

The signalized intersections in this area are under the jurisdiction of the Nassau County Department of Public Works.

SURROUNDING LAND USES

The subject property is located between the Young Israel Synagogue to the south and an apartment complex to the north. Apartment buildings are also located on the east side of Middle Neck Road on either side of Wooleys Lane, opposite the subject site.

PUBLIC TRANSPORTATION

The area is served by the Long Island Railroad and two Nassau Inter-County Express (NICE) bus routes. These bus routes are the N57 Great Neck Loop and the N58 Great Neck Railroad Station-Kings Point. The N57 bus route travels on Middle Neck Road directly in front of the subject site. The N58 bus route travels on Steamboat Road directly in front of the subject site turning onto or off of Middle Neck Road.

The Nassau Inter-County Express (NICE) buses have a seating capacity of 45 including provisions for 2 wheelchairs and a standing capacity of 21 passengers. Each bus has a total capacity to accommodate 66 passengers.

In the morning 3 buses pass the site between 7 and 8 o'clock an additional 2 buses pass the site between 8 and 9:00 am. In the evening 3 buses pass the site between 5 and 6 o'clock an additional 2 buses pass the site between 6 and 7:00 pm.

The Great Neck train station is located along the Port Washington train line with service to Port Washington and Penn Station in Manhattan. The Great Neck train station is less than 2 miles from the subject site.

EMERGENCY SERVICES

Police Services: The Village of Great Neck is patrolled by the Nassau County Police Department 6th Precinct. Fire and Ambulance Services: The site is located between two volunteer Fire Stations, the Great Neck Vigilant Fire Company to the south and the Great Neck Alert Fire Department to the west.

Great Neck Vigilant Fire Company
83 Cuttermill Road
Great Neck, New York 11021

Great Neck Alert Fire Department
555 Middle Neck Road (Annex firehouse at 142 Steamboat Road)
Great Neck, New York 11023

North Shore Hospital is the closest hospital to the subject site. It is located on Community Drive in Manhasset.

ACCIDENT HISTORY

Motor vehicle accident history reports pertaining to the adjacent roadway network were obtained from the Nassau County Police Department. The reports document motor vehicle accidents that took place along the roadway network and at the study intersections. The Nassau County Police Department reports span a period of 39-month beginning in January 2012 and ending on April 1, 2015.

According to the Nassau County Police Department records, as of June 25, 2015, no accidents were reported at or in the vicinity of the following locations:

- Middle Neck Road at the North Site Access
- Middle Neck Road at the South Site Access

On Sunday, March 30, 2014 at 9:36 am, a motor vehicle accident occurred on Old Mill Road 100 feet west of Middle Neck Road. The accident involved a pedestrian fatality. Pedestrian confusion, unsafe speed and slippery pavement were listed as factors that contributed to the accident. No other fatalities were reported within the study area over the 39 month study period.

Tables Acc1 through Acc10 provide a detailed summary of the accidents that have occurred, from January 1, 2012 through April 1, 2015, at or in the vicinity of the following intersections:

- Middle Neck Road at Old Mill Road
- Middle Neck Road at Wooleys Lane
- Middle Neck Road at Millbrook Court
- Middle Neck Road at Clover Drive
- Middle Neck Road at Allenwood Road

Four accidents were reported at or in proximity to Millbrook Court. Apparent contributing factors in these accidents included following too closely, failure to yield the right-of-way, and backing unsafely. Three of the accidents occurred on Middle Neck Road and one occurred on Millbrook Court. No pedestrians were involved in these accidents.

The site access design will lower traffic volumes on Millbrook Court and restrict specific turning movements at both the north and south driveways. The north and south driveways will provide one way traffic flow upon completion of the project. Restricting turning movements will decrease the number of conflict points at the north and south driveways improving safety.

Hamlet: Village of Great Neck
 Project No. M15-012

**Middle Neck Road and Old Mill Road/Piccadilly Road
 Detailed Accident Statistics**

| Accident Location | Total | Percentage |
|---|--------------|-------------------|
| At Intersection | 12 | 46% |
| North of Intersection | 7 | 27% |
| East of Intersection | 0 | --- |
| South of Intersection | 4 | 15% |
| West of Intersection | 3 | 12% |
| Severity | | |
| | Total | Percentage |
| Property Damage Only | 20 | 74% |
| Accident with Injuries | 6 | 22% |
| Accident with Fatalities | 1 | 4% |
| Code 1: Pedestrian Location | | |
| | Total | Percentage |
| 1.10 At Intersection | 2 | 8% |
| 1.20 Not at Intersection | 0 | --- |
| 1.30 Non-Pedestrian Accident | 24 | 92% |
| Code 2: Pedestrian Action | | |
| | Total | Percentage |
| 2.01 Crossing, With Signal | 0 | --- |
| 2.02 Crossing, Against Signal | 0 | --- |
| 2.03 Crossing, No Signal, Marked Crosswalk | 2 | 100% |
| 2.04 Crossing, No Signal or Crosswalk | 0 | --- |
| 2.05 Riding/Walking/Skating Alone Highway With Traffic | 0 | --- |
| 2.06 Riding/Walking/Skating Alone Highway Against Traffic | 0 | --- |
| 2.07 Emerging from in Front of/Behind Parked Vehicle | 0 | --- |
| 2.08 Going to/from Stopped School Bus | 0 | --- |
| 2.09 Getting On/Off Vehicle Other than School Bus | 0 | --- |
| 2.11 Working in Roadway | 0 | --- |
| 2.12 Playing in Roadway | 0 | --- |
| 2.13 Other Actions in Roadway | 0 | --- |
| 2.14 Not in Roadway (Indicate) | 0 | --- |
| Code 3: Traffic Control | | |
| | Total | Percentage |
| 3.01 None | 12 | 46% |
| 3.02 Traffic Signal | 13 | 50% |
| 3.03 Stop Sign | 0 | --- |
| 3.04 Flashing Light | 0 | --- |
| 3.05 Yield Sign | 0 | --- |
| 3.06 Officer/Guard | 0 | --- |
| 3.07 No Passing Zone | 0 | --- |
| 3.08 RR Crossing Sign | 0 | --- |
| 3.09 RR Crossing Flashing Light | 0 | --- |
| 3.10 RR Crossing Gate | 0 | --- |
| 3.11 Stopped School Bus-Red Lights Flashing | 0 | --- |
| 3.12 Construction Work Area | 1 | 4% |
| 3.13 Maintenance Work Area | 0 | --- |
| 3.14 Utility Work Area | 0 | --- |
| 3.15 Police/Fire Emergency | 0 | --- |
| 3.16 School Zone | 0 | --- |
| 3.20 Other | 0 | --- |
| Code 4: Light Conditions | | |
| | Total | Percentage |
| 4.01 Daylight | 21 | 81% |
| 4.02 Dawn | 1 | 4% |
| 4.03 Dusk | 0 | --- |
| 4.04 Dark-Road Lighted | 4 | 15% |
| 4.05 Dark-Road Unlighted | 0 | --- |
| Code 5: Roadway Character | | |
| | Total | Percentage |
| 5.01 Straight and Level | 18 | 69% |
| 5.02 Straight and Grade | 4 | 15% |
| 5.03 Straight at Hillcrest | 0 | --- |
| 5.04 Curve and Level | 4 | 15% |
| 5.05 Curve and Grade | 0 | --- |
| 5.06 Curve at Hillcrest | 0 | --- |
| Code 6: Roadway Surface Condition | | |
| | Total | Percentage |
| 6.01 Dry | 15 | 58% |
| 6.02 Wet | 8 | 31% |
| 6.03 Muddy | 0 | --- |
| 6.04 Snow/Ice | 3 | 12% |
| 6.05 Slush | 0 | --- |
| 6.06 Flooded | 0 | --- |
| 6.00 Other | 0 | --- |

Hamlet: Village of Great Neck
 Project No. M15-012

Middle Neck Road and Old Mill Road/Piccadilly Road
 Detailed Accident Statistics

| Code 7: Weather | | | | | Total | Percentage |
|--|--------------|--------------|--------------|--------------|--------------|-------------------|
| 7.01 Clear | | | | | 13 | 50% |
| 7.02 Cloudy | | | | | 5 | 19% |
| 7.03 Rain | | | | | 8 | 31% |
| 7.04 Snow | | | | | 0 | --- |
| 7.05 Sleet/Hail/Freezing Rain | | | | | 0 | --- |
| 7.06 Fog/Smog/Smoke | | | | | 0 | --- |
| 7.00 Other | | | | | 0 | --- |
| Code 19: Apparent Contributing Factors | Veh 1 | Veh 2 | Veh 3 | Veh 4 | Total | Percentage |
| Human | Code 19 | Code 20 | Code 21 | Code 22 | | |
| 19.02 Alcohol Involvement | 0 | 0 | 0 | 0 | 0 | --- |
| 19.03 Backing Unsafely | 1 | 0 | 0 | 0 | 1 | 3% |
| 19.04 Driver Inattention/Distracted | 1 | 0 | 0 | 0 | 1 | 3% |
| 19.05 Driver Inexperience | 0 | 0 | 0 | 0 | 0 | --- |
| 19.06 Drugs (illegal) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.07 Failure to Yield Right-of-Way | 5 | 1 | 0 | 0 | 6 | 16% |
| 19.08 Fell Asleep | 0 | 0 | 0 | 0 | 0 | --- |
| 19.09 Following Too Closely | 4 | 0 | 0 | 0 | 4 | 11% |
| 19.10 Illness | 0 | 0 | 0 | 0 | 0 | --- |
| 19.11 Lost Consciousness | 0 | 0 | 0 | 0 | 0 | --- |
| 19.12 Passenger Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.13 Passing or Lane Usage Improper | 3 | 1 | 1 | 0 | 5 | 14% |
| 19.14 Pedestrian /Bicyclist/Other Pedestrian Error/Confusion | 0 | 0 | 1 | 0 | 1 | 3% |
| 19.15 Physical Disability | 0 | 0 | 0 | 0 | 0 | --- |
| 19.16 Prescription Medication | 0 | 0 | 0 | 0 | 0 | --- |
| 19.17 Traffic Control Disregarded | 0 | 0 | 0 | 0 | 0 | --- |
| 19.18 Turning Improperly | 1 | 0 | 2 | 0 | 3 | 8% |
| 19.19 Unsafe Speed | 1 | 3 | 0 | 0 | 4 | 11% |
| 19.20 Unsafe Lane Changing | 3 | 0 | 0 | 0 | 3 | 8% |
| 19.21 Fatigued/Drowsy | 0 | 0 | 0 | 0 | 0 | --- |
| 19.22 Cell Phone (hand-held) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.23 Cell Phone (hands-free) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.24 Other Electronic Device | 0 | 0 | 0 | 0 | 0 | --- |
| 19.25 Outside Car Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.26 Reaction to Other Uninvolved Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.27 Failure to Keep Right | 0 | 0 | 0 | 0 | 0 | --- |
| 19.28 Aggressive Driving/Road Rage | 0 | 0 | 0 | 0 | 0 | --- |
| Vehicular | | | | | | |
| 19.41 Accelerator Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.42 Brakes Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.43 Headlights Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.44 Other Lighting Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.45 Oversized Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.46 Steering Failure | 0 | 1 | 0 | 0 | 1 | 3% |
| 19.47 Tire Failure/Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.48 Tow Hitch Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.49 Windshield Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.50 Driverless/Runaway Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.60 Other Vehicular | 1 | 0 | 0 | 0 | 1 | 3% |
| Environmental | | | | | | |
| 19.61 Animal's Action | 0 | 0 | 0 | 0 | 0 | --- |
| 19.62 Glare | 0 | 0 | 0 | 0 | 0 | --- |
| 19.63 Lane Marking Improper/Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.64 Obstruction/Debris | 0 | 1 | 0 | 0 | 1 | 3% |
| 19.65 Pavement Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.66 Pavement Slippery | 4 | 1 | 0 | 0 | 5 | 14% |
| 19.67 Shoulder Defective/Improper | 0 | 0 | 0 | 0 | 0 | --- |
| 19.68 Traffic Control Device Improper/Non-Working | 0 | 0 | 0 | 0 | 0 | --- |
| 19.69 View Obstruction/Limited | 1 | 0 | 0 | 0 | 1 | 3% |
| Code 23: Direction of Vehicle | Veh 1 | Veh 2 | | | Total | Percentage |
| | Code 23 | Code 24 | | | | |
| 23.01 North | 7 | 7 | | | 14 | 31% |
| 23.02 North-East | 1 | 0 | | | 1 | 2% |
| 23.03 East | 3 | 2 | | | 5 | 11% |
| 23.04 South-East | 0 | 1 | | | 1 | 2% |
| 23.05 South | 9 | 8 | | | 17 | 38% |
| 23.06 South-West | 3 | 0 | | | 3 | 7% |
| 23.07 West | 3 | 1 | | | 4 | 9% |
| 23.08 North-West | 0 | 0 | | | 0 | --- |

Hamlet: Village of Great Neck
 Project No. M15-012

Middle Neck Road and Old Mill Road/Piccadilly Road
 Detailed Accident Statistics

| Code 25: Pre-Accident Vehicle Action | Veh 1 Code 25 | Veh 2 Code 26 | Total | Percentage | |
|--|------------------------------------|--------------------------|--------------------------|-------------------|-------------------|
| 25.01 Going Straight Ahead | 10 | 8 | 18 | 40% | |
| 25.02 Making Right Turn | 2 | 2 | 4 | 9% | |
| 25.03 Making Left Turn | 5 | 0 | 5 | 11% | |
| 25.04 Making U Turn | 0 | 1 | 1 | 2% | |
| 25.05 Starting from Parking | 0 | 0 | 0 | --- | |
| 25.06 Starting in Traffic | 1 | 0 | 1 | 2% | |
| 25.07 Slowing or Stopping | 3 | 3 | 6 | 13% | |
| 25.08 Stopped in Traffic | 0 | 0 | 0 | --- | |
| 25.09 Entering Parked Position | 0 | 1 | 1 | 2% | |
| 25.10 Parked | 0 | 2 | 2 | 4% | |
| 25.11 Avoiding Object in Roadway | 0 | 0 | 0 | --- | |
| 25.12 Changing Lanes | 3 | 1 | 4 | 9% | |
| 25.13 Passing | 1 | 0 | 1 | 2% | |
| 25.14 Merging | 0 | 0 | 0 | --- | |
| 25.15 Backing | 1 | 0 | 1 | 2% | |
| 25.16 Making Right Turn on Red | 0 | 0 | 0 | --- | |
| 25.17 Making Left Turn on Red | 0 | 1 | 1 | 2% | |
| 25.18 Police Pursuit | 0 | 0 | 0 | --- | |
| 25.20 Other | 0 | 0 | 0 | --- | |
| Code 27: Location of First Event | | | Total | Percentage | |
| 27.01 On Roadway | | | 23 | 88% | |
| 27.02 Off Roadway | | | 3 | 12% | |
| Code 28: Type of Accident -- Collision With | First Event Code 28 | Veh 1 Code 29 | Veh 2 Code 30 | Total | Percentage |
| 28.01 Other Motor Vehicle | 19 | 0 | 0 | 19 | 59% |
| 28.02 Pedestrian | 2 | 1 | 0 | 3 | 9% |
| 28.03 Bicyclist | 0 | 0 | 0 | 0 | --- |
| 28.04 Animal | 0 | 0 | 0 | 0 | --- |
| 28.05 Railroad Train | 0 | 0 | 0 | 0 | --- |
| 28.06 In-Line Skater | 0 | 0 | 0 | 0 | --- |
| 28.07 Deer | 0 | 0 | 0 | 0 | --- |
| 28.08 Other Pedestrian | 0 | 0 | 0 | 0 | --- |
| 28.10 Other Object (Not Fixed) | 0 | 0 | 0 | 0 | --- |
| Collision with Fixed Object | | | | | |
| 28.11 Light Support /Utility Pole | 0 | 1 | 0 | 1 | 3% |
| 28.12 Guide Rail - Not At End | 0 | 0 | 0 | 0 | --- |
| 28.13 Crash Cushion | 0 | 0 | 0 | 0 | --- |
| 28.14 Sign Post | 1 | 0 | 0 | 1 | 3% |
| 28.15 Tree | 0 | 0 | 0 | 0 | --- |
| 28.16 Building/Wall | 0 | 1 | 0 | 1 | 3% |
| 28.17 Curbing | 4 | 1 | 0 | 5 | 16% |
| 28.18 Fence | 0 | 0 | 0 | 0 | --- |
| 28.19 Bridge Structure | 0 | 0 | 0 | 0 | --- |
| 28.20 Culvert/Head Wall | 0 | 0 | 0 | 0 | --- |
| 28.21 Median - Not At End | 0 | 0 | 0 | 0 | --- |
| 28.22 Snow Embankment | 0 | 0 | 0 | 0 | --- |
| 28.23 Earth Embankment/Rock Cut/Ditch | 0 | 0 | 0 | 0 | --- |
| 28.24 Fire Hydrant | 0 | 0 | 0 | 0 | --- |
| 28.25 Guide Rail - At End | 0 | 0 | 0 | 0 | --- |
| 28.26 Median - End | 0 | 1 | 0 | 1 | 3% |
| 28.27 Barrier | 0 | 0 | 0 | 0 | --- |
| 28.30 Other Fixed Object | 0 | 0 | 0 | 0 | --- |
| No Collision | | | | | |
| 28.31 Overtumed | 0 | 0 | 0 | 0 | --- |
| 28.32 Fire/Explosion | 0 | 0 | 0 | 0 | --- |
| 28.33 Submersion | 0 | 0 | 0 | 0 | --- |
| 28.34 Ran Off Roadway Only | 0 | 0 | 0 | 0 | --- |
| 28.40 Other | 0 | 1 | 0 | 1 | 3% |

Hamlet: Village of Great Neck
 Project No. M15-012

**Middle Neck Road and Wooleys Lane
 Detailed Accident Statistics**

| Accident Location | Total | Percentage |
|---|-------|------------|
| At Intersection | 6 | 50% |
| North of Intersection | 3 | 25% |
| East of Intersection | 1 | 8% |
| South of Intersection | 2 | 17% |
| West of Intersection | 0 | --- |
| Severity | | |
| Property Damage Only | 12 | 100% |
| Accident with Injuries | 0 | --- |
| Accident with Fatalities | 0 | --- |
| Code 1: Pedestrian Location | | |
| 1.10 At Intersection | 0 | --- |
| 1.20 Not at Intersection | 0 | --- |
| 1.30 Non-Pedestrian Accident | 12 | 100% |
| Code 2: Pedestrian Action | | |
| 2.01 Crossing, With Signal | 0 | --- |
| 2.02 Crossing, Against Signal | 0 | --- |
| 2.03 Crossing, No Signal, Marked Crosswalk | 0 | --- |
| 2.04 Crossing, No Signal or Crosswalk | 0 | --- |
| 2.05 Riding/Walking/Skating Alone Highway With Traffic | 0 | --- |
| 2.06 Riding/Walking/Skating Alone Highway Against Traffic | 0 | --- |
| 2.07 Emerging from in Front of/Behind Parked Vehicle | 0 | --- |
| 2.08 Going to/from Stopped School Bus | 0 | --- |
| 2.09 Getting On/Off Vehicle Other than School Bus | 0 | --- |
| 2.11 Working in Roadway | 0 | --- |
| 2.12 Playing in Roadway | 0 | --- |
| 2.13 Other Actions in Roadway | 0 | --- |
| 2.14 Not in Roadway (Indicate) | 0 | --- |
| Code 3: Traffic Control | | |
| 3.01 None | 4 | 33% |
| 3.02 Traffic Signal | 8 | 67% |
| 3.03 Stop Sign | 0 | --- |
| 3.04 Flashing Light | 0 | --- |
| 3.05 Yield Sign | 0 | --- |
| 3.06 Officer/Guard | 0 | --- |
| 3.07 No Passing Zone | 0 | --- |
| 3.08 RR Crossing Sign | 0 | --- |
| 3.09 RR Crossing Flashing Light | 0 | --- |
| 3.10 RR Crossing Gate | 0 | --- |
| 3.11 Stopped School Bus-Red Lights Flashing | 0 | --- |
| 3.12 Construction Work Area | 0 | --- |
| 3.13 Maintenance Work Area | 0 | --- |
| 3.14 Utility Work Area | 0 | --- |
| 3.15 Police/Fire Emergency | 0 | --- |
| 3.16 School Zone | 0 | --- |
| 3.20 Other | 0 | --- |
| Code 4: Light Conditions | | |
| 4.01 Daylight | 5 | 42% |
| 4.02 Dawn | 0 | --- |
| 4.03 Dusk | 0 | --- |
| 4.04 Dark-Road Lighted | 7 | 58% |
| 4.05 Dark-Road Unlighted | 0 | --- |
| Code 5: Roadway Character | | |
| 5.01 Straight and Level | 8 | 67% |
| 5.02 Straight and Grade | 3 | 25% |
| 5.03 Straight at Hillcrest | 0 | --- |
| 5.04 Curve and Level | 0 | --- |
| 5.05 Curve and Grade | 1 | 8% |
| 5.06 Curve at Hillcrest | 0 | --- |
| Code 6: Roadway Surface Condition | | |
| 6.01 Dry | 7 | 58% |
| 6.02 Wet | 4 | 33% |
| 6.03 Muddy | 0 | --- |
| 6.04 Snow/Ice | 1 | 8% |
| 6.05 Slush | 0 | --- |
| 6.06 Flooded | 0 | --- |
| 6.00 Other | 0 | --- |

Hamlet: Village of Great Neck
 Project No. M15-012

**Middle Neck Road and Wooleys Lane
 Detailed Accident Statistics**

| Code 7: Weather | Total | Percentage |
|-------------------------------|-------|------------|
| 7.01 Clear | 7 | 58% |
| 7.02 Cloudy | 0 | --- |
| 7.03 Rain | 4 | 33% |
| 7.04 Snow | 1 | 8% |
| 7.05 Sleet/Hail/Freezing Rain | 0 | --- |
| 7.06 Fog/Smog/Smoke | 0 | --- |
| 7.00 Other | 0 | --- |

| Code 19: Apparent Contributing Factors | Veh 1 Code 19 | Veh 2 Code 20 | Veh 3 Code 21 | Veh 4 Code 22 | Total | Percentage |
|--|------------------|------------------|------------------|------------------|-------|------------|
| Human | | | | | | |
| 19.02 Alcohol Involvement | 1 | 0 | 0 | 0 | 1 | 7% |
| 19.03 Backing Unsafely | 0 | 0 | 0 | 0 | 0 | --- |
| 19.04 Driver Inattention/Distracton | 0 | 0 | 0 | 0 | 0 | --- |
| 19.05 Driver Inexperience | 0 | 0 | 0 | 0 | 0 | --- |
| 19.06 Drugs (illegal) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.07 Failure to Yield Right-of-Way | 2 | 0 | 1 | 0 | 3 | 20% |
| 19.08 Fell Asleep | 0 | 0 | 0 | 0 | 0 | --- |
| 19.09 Following Too Closely | 2 | 2 | 0 | 0 | 4 | 27% |
| 19.10 Illness | 0 | 0 | 0 | 0 | 0 | --- |
| 19.11 Lost Consciousness | 0 | 0 | 0 | 0 | 0 | --- |
| 19.12 Passenger Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.13 Passing or Lane Usage Improper | 3 | 0 | 0 | 0 | 3 | 20% |
| 19.14 Pedestrian /Bicyclist/Other Pedestrian Error/Confusion | 0 | 0 | 0 | 0 | 0 | --- |
| 19.15 Physical Disability | 0 | 0 | 0 | 0 | 0 | --- |
| 19.16 Prescription Medication | 0 | 0 | 0 | 0 | 0 | --- |
| 19.17 Traffic Control Disregarded | 0 | 0 | 0 | 0 | 0 | --- |
| 19.18 Turning Improperly | 0 | 0 | 0 | 0 | 0 | --- |
| 19.19 Unsafe Speed | 0 | 0 | 0 | 0 | 0 | --- |
| 19.20 Unsafe Lane Changing | 1 | 0 | 0 | 0 | 1 | 7% |
| 19.21 Fatigued/Drowsy | 0 | 0 | 0 | 0 | 0 | --- |
| 19.22 Cell Phone (hand-held) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.23 Cell Phone (hands-free) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.24 Other Electronic Device | 0 | 0 | 0 | 0 | 0 | --- |
| 19.25 Outside Car Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.26 Reaction to Other Uninvolved Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.27 Failure to Keep Right | 0 | 0 | 0 | 0 | 0 | --- |
| 19.28 Aggressive Driving/Road Rage | 0 | 0 | 0 | 0 | 0 | --- |
| Vehicular | | | | | | |
| 19.41 Accelerator Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.42 Brakes Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.43 Headlights Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.44 Other Lighting Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.45 Oversized Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.46 Steering Failure | 0 | 0 | 0 | 0 | 0 | --- |
| 19.47 Tire Failure/Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.48 Tow Hitch Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.49 Windshield Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.50 Driverless/Runaway Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.60 Other Vehicular | 0 | 0 | 0 | 0 | 0 | --- |
| Environmental | | | | | | |
| 19.61 Animal's Action | 0 | 0 | 0 | 0 | 0 | --- |
| 19.62 Glare | 1 | 0 | 0 | 0 | 1 | 7% |
| 19.63 Lane Marking Improper/Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.64 Obstruction/Debris | 0 | 0 | 0 | 0 | 0 | --- |
| 19.65 Pavement Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.66 Pavement Slippery | 1 | 0 | 1 | 0 | 2 | 13% |
| 19.67 Shoulder Defective/Improper | 0 | 0 | 0 | 0 | 0 | --- |
| 19.68 Traffic Control Device Improper/Non-Working | 0 | 0 | 0 | 0 | 0 | --- |
| 19.69 View Obstruction/Limited | 0 | 0 | 0 | 0 | 0 | --- |

| Code 23: Direction of Vehicle | Veh 1 Code 23 | Veh 2 Code 24 | Total | Percentage |
|-------------------------------|------------------|------------------|-------|------------|
| 23.01 North | 5 | 4 | 9 | 39% |
| 23.02 North-East | 0 | 0 | 0 | --- |
| 23.03 East | 0 | 0 | 0 | --- |
| 23.04 South-East | 1 | 0 | 1 | 4% |
| 23.05 South | 2 | 3 | 5 | 22% |
| 23.06 South-West | 1 | 1 | 2 | 9% |
| 23.07 West | 2 | 2 | 4 | 17% |
| 23.08 North-West | 1 | 1 | 2 | 9% |

Hamlet: Village of Great Neck
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**Middle Neck Road and Wooleys Lane
 Detailed Accident Statistics**

| Code 25: Pre-Accident Vehicle Action | Veh 1 Code 25 | Veh 2 Code 26 | Total | Percentage | |
|--|------------------------------------|--------------------------|--------------------------|-------------------|-------------------|
| 25.01 Going Straight Ahead | 4 | 5 | 9 | 39% | |
| 25.02 Making Right Turn | 2 | 1 | 3 | 13% | |
| 25.03 Making Left Turn | 1 | 0 | 1 | 4% | |
| 25.04 Making U Turn | 0 | 0 | 0 | --- | |
| 25.05 Starting from Parking | 0 | 0 | 0 | --- | |
| 25.06 Starting in Traffic | 0 | 0 | 0 | --- | |
| 25.07 Slowing or Stopping | 2 | 0 | 2 | 9% | |
| 25.08 Stopped in Traffic | 0 | 2 | 2 | 9% | |
| 25.09 Entering Parked Position | 0 | 0 | 0 | --- | |
| 25.10 Parked | 1 | 3 | 4 | 17% | |
| 25.11 Avoiding Object in Roadway | 0 | 0 | 0 | --- | |
| 25.12 Changing Lanes | 1 | 0 | 1 | 4% | |
| 25.13 Passing | 1 | 0 | 1 | 4% | |
| 25.14 Merging | 0 | 0 | 0 | --- | |
| 25.15 Backing | 0 | 0 | 0 | --- | |
| 25.16 Making Right Turn on Red | 0 | 0 | 0 | --- | |
| 25.17 Making Left Turn on Red | 0 | 0 | 0 | --- | |
| 25.18 Police Pursuit | 0 | 0 | 0 | --- | |
| 25.20 Other | 0 | 0 | 0 | --- | |
| Code 27: Location of First Event | | | Total | Percentage | |
| 27.01 On Roadway | | | 12 | 100% | |
| 27.02 Off Roadway | | | 0 | --- | |
| Code 28: Type of Accident -- Collision With | First Event Code 28 | Veh 1 Code 29 | Veh 2 Code 30 | Total | Percentage |
| 28.01 Other Motor Vehicle | 11 | 0 | 0 | 11 | 85% |
| 28.02 Pedestrian | 0 | 0 | 0 | 0 | --- |
| 28.03 Bicyclist | 0 | 0 | 0 | 0 | --- |
| 28.04 Animal | 0 | 0 | 0 | 0 | --- |
| 28.05 Railroad Train | 0 | 0 | 0 | 0 | --- |
| 28.06 In-Line Skater | 0 | 0 | 0 | 0 | --- |
| 28.07 Deer | 0 | 0 | 0 | 0 | --- |
| 28.08 Other Pedestrian | 0 | 0 | 0 | 0 | --- |
| 28.10 Other Object (Not Fixed) | 0 | 0 | 0 | 0 | --- |
| Collision with Fixed Object | | | | | |
| 28.11 Light Support /Utility Pole | 0 | 0 | 0 | 0 | --- |
| 28.12 Guide Rail - Not At End | 0 | 0 | 0 | 0 | --- |
| 28.13 Crash Cushion | 0 | 0 | 0 | 0 | --- |
| 28.14 Sign Post | 0 | 1 | 0 | 1 | 8% |
| 28.15 Tree | 1 | 0 | 0 | 1 | 8% |
| 28.16 Building/Wall | 0 | 0 | 0 | 0 | --- |
| 28.17 Curbing | 0 | 0 | 0 | 0 | --- |
| 28.18 Fence | 0 | 0 | 0 | 0 | --- |
| 28.19 Bridge Structure | 0 | 0 | 0 | 0 | --- |
| 28.20 Culvert/Head Wall | 0 | 0 | 0 | 0 | --- |
| 28.21 Median - Not At End | 0 | 0 | 0 | 0 | --- |
| 28.22 Snow Embankment | 0 | 0 | 0 | 0 | --- |
| 28.23 Earth Embankment/Rock Cut/Ditch | 0 | 0 | 0 | 0 | --- |
| 28.24 Fire Hydrant | 0 | 0 | 0 | 0 | --- |
| 28.25 Guide Rail - At End | 0 | 0 | 0 | 0 | --- |
| 28.26 Median - End | 0 | 0 | 0 | 0 | --- |
| 28.27 Barrier | 0 | 0 | 0 | 0 | --- |
| 28.30 Other Fixed Object | 0 | 0 | 0 | 0 | --- |
| No Collision | | | | | |
| 28.31 Overtumed | 0 | 0 | 0 | 0 | --- |
| 28.32 Fire/Explosion | 0 | 0 | 0 | 0 | --- |
| 28.33 Submersion | 0 | 0 | 0 | 0 | --- |
| 28.34 Ran Off Roadway Only | 0 | 0 | 0 | 0 | --- |
| 28.40 Other | 0 | 0 | 0 | 0 | --- |

Hamlet: Village of Great Neck
Project No. M15-012

Middle Neck Road and Wooleys Lane
NCDPW Accident Records
Sunday, January 01, 2012
through
Wednesday, April 01, 2015

| | |
|---|--|
| Number of Months: 39.0 | Total Number of Accidents in 2012: 6.0 |
| Number of Years: 3.3 | Total Number of Accidents in 2013: 3.0 |
| Total Number of Accidents: 12.0 | Total Number of Accidents in 2014: 2.0 |
| Average Number of Accidents per Year: 4.0 | Total Number of Accidents in 2015 (January-March): 1.0 |

| Accident No. | Date | Hr | Min | # of Veh | # of Inj | Fatal | NCPD Accident Codes | | | | | | | | | | | | Dir | | | | | | |
|---------------|----------|----|-----|----------|----------|-------|---------------------|---|---|---|---|---|----|----|----|----|----|----|-----|----|----|----|----|-----|----|
| | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 19 | 20 | 21 | 22 | 23 | | 24 | 25 | 26 | 27 | 28 | 29 |
| 060-0123-2012 | 01/12/12 | 18 | 33 | 2 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 2 | 3 | 9 | 0 | 0 | 7 | 1 | 8 | 1 | 1 | 0 | 0 | 30 | E |
| 060-0159-2012 | 01/16/12 | 18 | 25 | 2 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 1 | 20 | 0 | 0 | 6 | 6 | 12 | 1 | 1 | 1 | 0 | 0 | 0 | I |
| 060-0203-2012 | 01/19/12 | 09 | 16 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 5 | 1 | 62 | 9 | 0 | 5 | 5 | 7 | 1 | 1 | 1 | 0 | 0 | 10 | N |
| 060-0469-2012 | 02/12/12 | 15 | 00 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 7 | 0 | 1 | 5 | 10 | 1 | 1 | 1 | 0 | 0 | 0 | I |
| 060-0725-2012 | 03/12/12 | 19 | 55 | 1 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 1 | 7 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 15 | 14 | 0 | 15 | N |
| 030-3859-2012 | 07/16/12 | 12 | 00 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 13 | 0 | 0 | 5 | 1 | 10 | 1 | 1 | 0 | 0 | 0 | I |
| 030-4902-2013 | 06/13/13 | 20 | 13 | 2 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | 2 | 3 | 2 | 0 | 0 | 1 | 1 | 10 | 1 | 1 | 0 | 0 | 50 | S |
| 030-6842-2013 | 08/14/13 | 15 | 05 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 13 | 0 | 0 | 0 | 1 | 1 | 10 | 1 | 1 | 0 | 0 | 50 | N |
| 031-0561-2013 | 12/08/13 | 21 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 2 | 3 | 7 | 0 | 66 | 0 | 4 | 1 | 3 | 1 | 1 | 0 | 0 | I |
| 030-0044-2014 | 01/02/14 | 21 | 00 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 2 | 4 | 66 | 9 | 0 | 7 | 7 | 8 | 1 | 1 | 0 | 0 | 0 | I |
| 030-8879-2014 | 10/14/14 | 23 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 2 | 13 | 0 | 0 | 1 | 1 | 13 | 1 | 1 | 1 | 0 | 100 | S |
| 030-0426-2015 | 01/15/15 | 14 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 9 | 0 | 0 | 8 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | I |

Hamlet: Village of Great Neck
 Project No. M15-012

**Middle Neck Road and Millbrook Court
 Detailed Accident Statistics**

| Accident Location | Total | Percentage |
|---|--------------|-------------------|
| At Intersection | 2 | 50% |
| North of Intersection | 1 | 25% |
| East of Intersection | 0 | --- |
| South of Intersection | 0 | --- |
| West of Intersection | 1 | 25% |
| Severity | | |
| | Total | Percentage |
| Property Damage Only | 2 | 50% |
| Accident with Injuries | 2 | 50% |
| Accident with Fatalities | 0 | --- |
| Code 1: Pedestrian Location | | |
| | Total | Percentage |
| 1.10 At Intersection | 0 | --- |
| 1.20 Not at Intersection | 0 | --- |
| 1.30 Non-Pedestrian Accident | 4 | 100% |
| Code 2: Pedestrian Action | | |
| | Total | Percentage |
| 2.01 Crossing, With Signal | 0 | --- |
| 2.02 Crossing, Against Signal | 0 | --- |
| 2.03 Crossing, No Signal, Marked Crosswalk | 0 | --- |
| 2.04 Crossing, No Signal or Crosswalk | 0 | --- |
| 2.05 Riding/Walking/Skating Alone Highway With Traffic | 0 | --- |
| 2.06 Riding/Walking/Skating Alone Highway Against Traffic | 0 | --- |
| 2.07 Emerging from in Front of/Behind Parked Vehicle | 0 | --- |
| 2.08 Going to/from Stopped School Bus | 0 | --- |
| 2.09 Getting On/Off Vehicle Other than School Bus | 0 | --- |
| 2.11 Working in Roadway | 0 | --- |
| 2.12 Playing in Roadway | 0 | --- |
| 2.13 Other Actions in Roadway | 0 | --- |
| 2.14 Not in Roadway (Indicate) | 0 | --- |
| Code 3: Traffic Control | | |
| | Total | Percentage |
| 3.01 None | 3 | 75% |
| 3.02 Traffic Signal | 0 | --- |
| 3.03 Stop Sign | 1 | 25% |
| 3.04 Flashing Light | 0 | --- |
| 3.05 Yield Sign | 0 | --- |
| 3.06 Officer/Guard | 0 | --- |
| 3.07 No Passing Zone | 0 | --- |
| 3.08 RR Crossing Sign | 0 | --- |
| 3.09 RR Crossing Flashing Light | 0 | --- |
| 3.10 RR Crossing Gate | 0 | --- |
| 3.11 Stopped School Bus-Red Lights Flashing | 0 | --- |
| 3.12 Construction Work Area | 0 | --- |
| 3.13 Maintenance Work Area | 0 | --- |
| 3.14 Utility Work Area | 0 | --- |
| 3.15 Police/Fire Emergency | 0 | --- |
| 3.16 School Zone | 0 | --- |
| 3.20 Other | 0 | --- |
| Code 4: Light Conditions | | |
| | Total | Percentage |
| 4.01 Daylight | 3 | 75% |
| 4.02 Dawn | 0 | --- |
| 4.03 Dusk | 0 | --- |
| 4.04 Dark-Road Lighted | 0 | --- |
| 4.05 Dark-Road Unlighted | 1 | 25% |
| Code 5: Roadway Character | | |
| | Total | Percentage |
| 5.01 Straight and Level | 4 | 100% |
| 5.02 Straight and Grade | 0 | --- |
| 5.03 Straight at Hillcrest | 0 | --- |
| 5.04 Curve and Level | 0 | --- |
| 5.05 Curve and Grade | 0 | --- |
| 5.06 Curve at Hillcrest | 0 | --- |
| Code 6: Roadway Surface Condition | | |
| | Total | Percentage |
| 6.01 Dry | 3 | 75% |
| 6.02 Wet | 1 | 25% |
| 6.03 Muddy | 0 | --- |
| 6.04 Snow/Ice | 0 | --- |
| 6.05 Slush | 0 | --- |
| 6.06 Flooded | 0 | --- |
| 6.00 Other | 0 | --- |

Hamlet: Village of Great Neck
 Project No. M15-012

Middle Neck Road and Millbrook Court
 Detailed Accident Statistics

| Code 7: Weather | Total | Percentage |
|-------------------------------|-------|------------|
| 7.01 Clear | 2 | 50% |
| 7.02 Cloudy | 2 | 50% |
| 7.03 Rain | 0 | --- |
| 7.04 Snow | 0 | --- |
| 7.05 Sleet/Hail/Freezing Rain | 0 | --- |
| 7.06 Fog/Smog/Smoke | 0 | --- |
| 7.00 Other | 0 | --- |

| Code 19: Apparent Contributing Factors | Veh 1 Code 19 | Veh 2 Code 20 | Veh 3 Code 21 | Veh 4 Code 22 | Total | Percentage |
|--|------------------|------------------|------------------|------------------|-------|------------|
| Human | | | | | | |
| 19.02 Alcohol Involvement | 0 | 0 | 0 | 0 | 0 | --- |
| 19.03 Backing Unsafely | 1 | 0 | 0 | 0 | 1 | 20% |
| 19.04 Driver Inattention/Distracton | 0 | 0 | 0 | 0 | 0 | --- |
| 19.05 Driver Inexperience | 0 | 0 | 0 | 0 | 0 | --- |
| 19.06 Drugs (illegal) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.07 Failure to Yield Right-of-Way | 1 | 1 | 0 | 0 | 2 | 40% |
| 19.08 Fell Asleep | 0 | 0 | 0 | 0 | 0 | --- |
| 19.09 Following Too Closely | 2 | 0 | 0 | 0 | 2 | 40% |
| 19.10 Illness | 0 | 0 | 0 | 0 | 0 | --- |
| 19.11 Lost Consciousness | 0 | 0 | 0 | 0 | 0 | --- |
| 19.12 Passenger Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.13 Passing or Lane Usage Improper | 0 | 0 | 0 | 0 | 0 | --- |
| 19.14 Pedestrian /Bicyclist/Other Pedestrian Error/Confusion | 0 | 0 | 0 | 0 | 0 | --- |
| 19.15 Physical Disability | 0 | 0 | 0 | 0 | 0 | --- |
| 19.16 Prescription Medication | 0 | 0 | 0 | 0 | 0 | --- |
| 19.17 Traffic Control Disregarded | 0 | 0 | 0 | 0 | 0 | --- |
| 19.18 Turning Improperly | 0 | 0 | 0 | 0 | 0 | --- |
| 19.19 Unsafe Speed | 0 | 0 | 0 | 0 | 0 | --- |
| 19.20 Unsafe Lane Changing | 0 | 0 | 0 | 0 | 0 | --- |
| 19.21 Fatigued/Drowsy | 0 | 0 | 0 | 0 | 0 | --- |
| 19.22 Cell Phone (hand-held) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.23 Cell Phone (hands-free) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.24 Other Electronic Device | 0 | 0 | 0 | 0 | 0 | --- |
| 19.25 Outside Car Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.26 Reaction to Other Uninvolved Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.27 Failure to Keep Right | 0 | 0 | 0 | 0 | 0 | --- |
| 19.28 Aggressive Driving/Road Rage | 0 | 0 | 0 | 0 | 0 | --- |
| Vehicular | | | | | | |
| 19.41 Accelerator Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.42 Brakes Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.43 Headlights Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.44 Other Lighting Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.45 Oversized Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.46 Steering Failure | 0 | 0 | 0 | 0 | 0 | --- |
| 19.47 Tire Failure/Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.48 Tow Hitch Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.49 Windshield Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.50 Driverless/Runaway Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.60 Other Vehicular | 0 | 0 | 0 | 0 | 0 | --- |
| Environmental | | | | | | |
| 19.61 Animal's Action | 0 | 0 | 0 | 0 | 0 | --- |
| 19.62 Glare | 0 | 0 | 0 | 0 | 0 | --- |
| 19.63 Lane Marking Improper/Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.64 Obstruction/Debris | 0 | 0 | 0 | 0 | 0 | --- |
| 19.65 Pavement Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.66 Pavement Slippery | 0 | 0 | 0 | 0 | 0 | --- |
| 19.67 Shoulder Defective/Improper | 0 | 0 | 0 | 0 | 0 | --- |
| 19.68 Traffic Control Device Improper/Non-Working | 0 | 0 | 0 | 0 | 0 | --- |
| 19.69 View Obstruction/Limited | 0 | 0 | 0 | 0 | 0 | --- |

| Code 23: Direction of Vehicle | Veh 1 Code 23 | Veh 2 Code 24 | Total | Percentage |
|-------------------------------|------------------|------------------|-------|------------|
| 23.01 North | 0 | 0 | 0 | --- |
| 23.02 North-East | 1 | 0 | 1 | 13% |
| 23.03 East | 1 | 1 | 2 | 25% |
| 23.04 South-East | 0 | 0 | 0 | --- |
| 23.05 South | 2 | 3 | 5 | 63% |
| 23.06 South-West | 0 | 0 | 0 | --- |
| 23.07 West | 0 | 0 | 0 | --- |
| 23.08 North-West | 0 | 0 | 0 | --- |

Hamlet: Village of Great Neck
 Project No. M15-012

**Middle Neck Road and Millbrook Court
 Detailed Accident Statistics**

| Code 25: Pre-Accident Vehicle Action | Veh 1 Code 25 | Veh 2 Code 26 | Total | Percentage | |
|--|------------------------------------|--------------------------|--------------------------|-------------------|-------------------|
| 25.01 Going Straight Ahead | 2 | 1 | 3 | 38% | |
| 25.02 Making Right Turn | 0 | 0 | 0 | --- | |
| 25.03 Making Left Turn | 1 | 0 | 1 | 13% | |
| 25.04 Making U Turn | 0 | 0 | 0 | --- | |
| 25.05 Starting from Parking | 0 | 0 | 0 | --- | |
| 25.06 Starting in Traffic | 0 | 0 | 0 | --- | |
| 25.07 Slowing or Stopping | 0 | 2 | 2 | 25% | |
| 25.08 Stopped in Traffic | 0 | 0 | 0 | --- | |
| 25.09 Entering Parked Position | 0 | 0 | 0 | --- | |
| 25.10 Parked | 0 | 1 | 1 | 13% | |
| 25.11 Avoiding Object in Roadway | 0 | 0 | 0 | --- | |
| 25.12 Changing Lanes | 0 | 0 | 0 | --- | |
| 25.13 Passing | 0 | 0 | 0 | --- | |
| 25.14 Merging | 0 | 0 | 0 | --- | |
| 25.15 Backing | 1 | 0 | 1 | 13% | |
| 25.16 Making Right Turn on Red | 0 | 0 | 0 | --- | |
| 25.17 Making Left Turn on Red | 0 | 0 | 0 | --- | |
| 25.18 Police Pursuit | 0 | 0 | 0 | --- | |
| 25.20 Other | 0 | 0 | 0 | --- | |
| Code 27: Location of First Event | | | Total | Percentage | |
| 27.01 On Roadway | | | 4 | 100% | |
| 27.02 Off Roadway | | | 0 | --- | |
| Code 28: Type of Accident -- Collision With | First Event Code 28 | Veh 1 Code 29 | Veh 2 Code 30 | Total | Percentage |
| 28.01 Other Motor Vehicle | 4 | 0 | 0 | 4 | 100% |
| 28.02 Pedestrian | 0 | 0 | 0 | 0 | --- |
| 28.03 Bicyclist | 0 | 0 | 0 | 0 | --- |
| 28.04 Animal | 0 | 0 | 0 | 0 | --- |
| 28.05 Railroad Train | 0 | 0 | 0 | 0 | --- |
| 28.06 In-Line Skater | 0 | 0 | 0 | 0 | --- |
| 28.07 Deer | 0 | 0 | 0 | 0 | --- |
| 28.08 Other Pedestrian | 0 | 0 | 0 | 0 | --- |
| 28.10 Other Object (Not Fixed) | 0 | 0 | 0 | 0 | --- |
| Collision with Fixed Object | | | | | |
| 28.11 Light Support /Utility Pole | 0 | 0 | 0 | 0 | --- |
| 28.12 Guide Rail - Not At End | 0 | 0 | 0 | 0 | --- |
| 28.13 Crash Cushion | 0 | 0 | 0 | 0 | --- |
| 28.14 Sign Post | 0 | 0 | 0 | 0 | --- |
| 28.15 Tree | 0 | 0 | 0 | 0 | --- |
| 28.16 Building/Wall | 0 | 0 | 0 | 0 | --- |
| 28.17 Curbing | 0 | 0 | 0 | 0 | --- |
| 28.18 Fence | 0 | 0 | 0 | 0 | --- |
| 28.19 Bridge Structure | 0 | 0 | 0 | 0 | --- |
| 28.20 Culvert/Head Wall | 0 | 0 | 0 | 0 | --- |
| 28.21 Median - Not At End | 0 | 0 | 0 | 0 | --- |
| 28.22 Snow Embankment | 0 | 0 | 0 | 0 | --- |
| 28.23 Earth Embankment/Rock Cut/Ditch | 0 | 0 | 0 | 0 | --- |
| 28.24 Fire Hydrant | 0 | 0 | 0 | 0 | --- |
| 28.25 Guide Rail - At End | 0 | 0 | 0 | 0 | --- |
| 28.26 Median - End | 0 | 0 | 0 | 0 | --- |
| 28.27 Barrier | 0 | 0 | 0 | 0 | --- |
| 28.30 Other Fixed Object | 0 | 0 | 0 | 0 | --- |
| No Collision | | | | | |
| 28.31 Overtuned | 0 | 0 | 0 | 0 | --- |
| 28.32 Fire/Explosion | 0 | 0 | 0 | 0 | --- |
| 28.33 Submersion | 0 | 0 | 0 | 0 | --- |
| 28.34 Ran Off Roadway Only | 0 | 0 | 0 | 0 | --- |
| 28.40 Other | 0 | 0 | 0 | 0 | --- |

Hamlet: M15-012
 Project No. M15-012

Middle Neck Road and Millbrook Court
 NCDPW Accident Records
 Sunday, January 01, 2012
 through
 Wednesday, April 01, 2015

Number of Months: 39.0
 Number of Years: 3.3
 Total Number of Accidents: 40
 Average Number of Accidents per Year: 1.3

Total Number of Accidents in 2012: 0.0
 Total Number of Accidents in 2013: 2.0
 Total Number of Accidents in 2014: 2.0
 Total Number of Accidents in 2015 (January-March): 0.0

| Accident No. | Date | Hr | Min | # of Veh | # of Inj | Fatal | NCPD Accident Codes | | | | | | | | | | | | Dist | Dir | | | | | | | |
|---------------|----------|----|-----|----------|----------|-------|---------------------|---|---|---|---|---|---|----|----|----|----|----|------|-----|----|----|----|----|----|-----|----|
| | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 19 | 20 | 21 | 22 | 23 | | | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 030-8632-2013 | 10/11/13 | 19 | 10 | 2 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 1 | 2 | 3 | 0 | 0 | 0 | 2 | 3 | 15 | 10 | 1 | 1 | 0 | 0 | 200 | W |
| 031-1228-2013 | 12/26/13 | 15 | 30 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 9 | 0 | 0 | 0 | 0 | 5 | 5 | 1 | 7 | 1 | 1 | 0 | 0 | 0 | 0 |
| 031-0167-2014 | 11/19/14 | 15 | 15 | 2 | 1 | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 7 | 0 | 0 | 0 | 3 | 5 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 031-0954-2014 | 12/11/14 | 09 | 15 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 9 | 0 | 0 | 0 | 5 | 5 | 1 | 7 | 1 | 1 | 0 | 0 | 50 | N | |

Hamlet: Village of Great Neck
 Project No. M15-012

Middle Neck Road and Clover Drive
 Detailed Accident Statistics

| Accident Location | Total | Percentage |
|---|-------|------------|
| At Intersection | 0 | --- |
| North of Intersection | 1 | 100% |
| East of Intersection | 0 | --- |
| South of Intersection | 0 | --- |
| West of Intersection | 0 | --- |
| Severity | | |
| Property Damage Only | 1 | 100% |
| Accident with Injuries | 0 | --- |
| Accident with Fatalities | 0 | --- |
| Code 1: Pedestrian Location | | |
| 1.10 At Intersection | 0 | --- |
| 1.20 Not at Intersection | 0 | --- |
| 1.30 Non-Pedestrian Accident | 1 | 100% |
| Code 2: Pedestrian Action | | |
| 2.01 Crossing, With Signal | 0 | --- |
| 2.02 Crossing, Against Signal | 0 | --- |
| 2.03 Crossing, No Signal, Marked Crosswalk | 0 | --- |
| 2.04 Crossing, No Signal or Crosswalk | 0 | --- |
| 2.05 Riding/Walking/Skating Alone Highway With Traffic | 0 | --- |
| 2.06 Riding/Walking/Skating Alone Highway Against Traffic | 0 | --- |
| 2.07 Emerging from in Front of/Behind Parked Vehicle | 0 | --- |
| 2.08 Going to/from Stopped School Bus | 0 | --- |
| 2.09 Getting On/Off Vehicle Other than School Bus | 0 | --- |
| 2.11 Working in Roadway | 0 | --- |
| 2.12 Playing in Roadway | 0 | --- |
| 2.13 Other Actions in Roadway | 0 | --- |
| 2.14 Not in Roadway (Indicate) | 0 | --- |
| Code 3: Traffic Control | | |
| 3.01 None | 1 | 100% |
| 3.02 Traffic Signal | 0 | --- |
| 3.03 Stop Sign | 0 | --- |
| 3.04 Flashing Light | 0 | --- |
| 3.05 Yield Sign | 0 | --- |
| 3.06 Officer/Guard | 0 | --- |
| 3.07 No Passing Zone | 0 | --- |
| 3.08 RR Crossing Sign | 0 | --- |
| 3.09 RR Crossing Flashing Light | 0 | --- |
| 3.10 RR Crossing Gate | 0 | --- |
| 3.11 Stopped School Bus-Red Lights Flashing | 0 | --- |
| 3.12 Construction Work Area | 0 | --- |
| 3.13 Maintenance Work Area | 0 | --- |
| 3.14 Utility Work Area | 0 | --- |
| 3.15 Police/Fire Emergency | 0 | --- |
| 3.16 School Zone | 0 | --- |
| 3.20 Other | 0 | --- |
| Code 4: Light Conditions | | |
| 4.01 Daylight | 1 | 100% |
| 4.02 Dawn | 0 | --- |
| 4.03 Dusk | 0 | --- |
| 4.04 Dark-Road Lighted | 0 | --- |
| 4.05 Dark-Road Unlighted | 0 | --- |
| Code 5: Roadway Character | | |
| 5.01 Straight and Level | 1 | 100% |
| 5.02 Straight and Grade | 0 | --- |
| 5.03 Straight at Hillcrest | 0 | --- |
| 5.04 Curve and Level | 0 | --- |
| 5.05 Curve and Grade | 0 | --- |
| 5.06 Curve at Hillcrest | 0 | --- |
| Code 6: Roadway Surface Condition | | |
| 6.01 Dry | 1 | 100% |
| 6.02 Wet | 0 | --- |
| 6.03 Muddy | 0 | --- |
| 6.04 Snow/Ice | 0 | --- |
| 6.05 Slush | 0 | --- |
| 6.06 Flooded | 0 | --- |
| 6.00 Other | 0 | --- |

Hamlet: Village of Great Neck
 Project No. M15-012

Middle Neck Road and Clover Drive
 Detailed Accident Statistics

| Code 7: Weather | Total | Percentage |
|-------------------------------|-------|------------|
| 7.01 Clear | 1 | 100% |
| 7.02 Cloudy | 0 | --- |
| 7.03 Rain | 0 | --- |
| 7.04 Snow | 0 | --- |
| 7.05 Sleet/Hail/Freezing Rain | 0 | --- |
| 7.06 Fog/Smog/Smoke | 0 | --- |
| 7.00 Other | 0 | --- |

| Code 19: Apparent Contributing Factors | Veh 1 | Veh 2 | Veh 3 | Veh 4 | Total | Percentage |
|--|---------|---------|---------|---------|-------|------------|
| Human | Code 19 | Code 20 | Code 21 | Code 22 | | |
| 19.02 Alcohol Involvement | 0 | 0 | 0 | 0 | 0 | --- |
| 19.03 Backing Unsafely | 0 | 0 | 0 | 0 | 0 | --- |
| 19.04 Driver Inattention/Distracted | 0 | 0 | 0 | 0 | 0 | --- |
| 19.05 Driver Inexperience | 0 | 0 | 0 | 0 | 0 | --- |
| 19.06 Drugs (illegal) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.07 Failure to Yield Right-of-Way | 0 | 0 | 0 | 0 | 0 | --- |
| 19.08 Fell Asleep | 0 | 0 | 0 | 0 | 0 | --- |
| 19.09 Following Too Closely | 1 | 0 | 0 | 0 | 1 | 100% |
| 19.10 Illness | 0 | 0 | 0 | 0 | 0 | --- |
| 19.11 Lost Consciousness | 0 | 0 | 0 | 0 | 0 | --- |
| 19.12 Passenger Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.13 Passing or Lane Usage Improper | 0 | 0 | 0 | 0 | 0 | --- |
| 19.14 Pedestrian /Bicyclist/Other Pedestrian Error/Confusion | 0 | 0 | 0 | 0 | 0 | --- |
| 19.15 Physical Disability | 0 | 0 | 0 | 0 | 0 | --- |
| 19.16 Prescription Medication | 0 | 0 | 0 | 0 | 0 | --- |
| 19.17 Traffic Control Disregarded | 0 | 0 | 0 | 0 | 0 | --- |
| 19.18 Turning Improperly | 0 | 0 | 0 | 0 | 0 | --- |
| 19.19 Unsafe Speed | 0 | 0 | 0 | 0 | 0 | --- |
| 19.20 Unsafe Lane Changing | 0 | 0 | 0 | 0 | 0 | --- |
| 19.21 Fatigued/Drowsy | 0 | 0 | 0 | 0 | 0 | --- |
| 19.22 Cell Phone (hand-held) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.23 Cell Phone (hands-free) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.24 Other Electronic Device | 0 | 0 | 0 | 0 | 0 | --- |
| 19.25 Outside Car Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.26 Reaction to Other Uninvolved Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.27 Failure to Keep Right | 0 | 0 | 0 | 0 | 0 | --- |
| 19.28 Aggressive Driving/Road Rage | 0 | 0 | 0 | 0 | 0 | --- |
| Vehicular | | | | | | |
| 19.41 Accelerator Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.42 Brakes Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.43 Headlights Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.44 Other Lighting Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.45 Oversized Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.46 Steering Failure | 0 | 0 | 0 | 0 | 0 | --- |
| 19.47 Tire Failure/Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.48 Tow Hitch Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.49 Windshield Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.50 Driverless/Runaway Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.60 Other Vehicular | 0 | 0 | 0 | 0 | 0 | --- |
| Environmental | | | | | | |
| 19.61 Animal's Action | 0 | 0 | 0 | 0 | 0 | --- |
| 19.62 Glare | 0 | 0 | 0 | 0 | 0 | --- |
| 19.63 Lane Marking Improper/Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.64 Obstruction/Debris | 0 | 0 | 0 | 0 | 0 | --- |
| 19.65 Pavement Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.66 Pavement Slippery | 0 | 0 | 0 | 0 | 0 | --- |
| 19.67 Shoulder Defective/Improper | 0 | 0 | 0 | 0 | 0 | --- |
| 19.68 Traffic Control Device Improper/Non-Working | 0 | 0 | 0 | 0 | 0 | --- |
| 19.69 View Obstruction/Limited | 0 | 0 | 0 | 0 | 0 | --- |

| Code 23: Direction of Vehicle | Veh 1 | Veh 2 | Total | Percentage |
|-------------------------------|---------|---------|-------|------------|
| | Code 23 | Code 24 | | |
| 23.01 North | 1 | 1 | 2 | 100% |
| 23.02 North-East | 0 | 0 | 0 | --- |
| 23.03 East | 0 | 0 | 0 | --- |
| 23.04 South-East | 0 | 0 | 0 | --- |
| 23.05 South | 0 | 0 | 0 | --- |
| 23.06 South-West | 0 | 0 | 0 | --- |
| 23.07 West | 0 | 0 | 0 | --- |
| 23.08 North-West | 0 | 0 | 0 | --- |

Hamlet: Village of Great Neck
 Project No. M15-012

**Middle Neck Road and Clover Drive
 Detailed Accident Statistics**

| Code 25: Pre-Accident Vehicle Action | Veh 1 Code 25 | Veh 2 Code 26 | Total | Percentage | |
|--|------------------------------------|--------------------------|--------------------------|-------------------|-------------------|
| 25.01 Going Straight Ahead | 1 | 1 | 2 | 100% | |
| 25.02 Making Right Turn | 0 | 0 | 0 | --- | |
| 25.03 Making Left Turn | 0 | 0 | 0 | --- | |
| 25.04 Making U Turn | 0 | 0 | 0 | --- | |
| 25.05 Starting from Parking | 0 | 0 | 0 | --- | |
| 25.06 Starting in Traffic | 0 | 0 | 0 | --- | |
| 25.07 Slowing or Stopping | 0 | 0 | 0 | --- | |
| 25.08 Stopped in Traffic | 0 | 0 | 0 | --- | |
| 25.09 Entering Parked Position | 0 | 0 | 0 | --- | |
| 25.10 Parked | 0 | 0 | 0 | --- | |
| 25.11 Avoiding Object in Roadway | 0 | 0 | 0 | --- | |
| 25.12 Changing Lanes | 0 | 0 | 0 | --- | |
| 25.13 Passing | 0 | 0 | 0 | --- | |
| 25.14 Merging | 0 | 0 | 0 | --- | |
| 25.15 Backing | 0 | 0 | 0 | --- | |
| 25.16 Making Right Turn on Red | 0 | 0 | 0 | --- | |
| 25.17 Making Left Turn on Red | 0 | 0 | 0 | --- | |
| 25.18 Police Pursuit | 0 | 0 | 0 | --- | |
| 25.20 Other | 0 | 0 | 0 | --- | |
| Code 27: Location of First Event | | | Total | Percentage | |
| 27.01 On Roadway | | | 1 | 100% | |
| 27.02 Off Roadway | | | 0 | --- | |
| Code 28: Type of Accident -- Collision With | First Event Code 28 | Veh 1 Code 29 | Veh 2 Code 30 | Total | Percentage |
| 28.01 Other Motor Vehicle | 1 | 0 | 0 | 1 | 100% |
| 28.02 Pedestrian | 0 | 0 | 0 | 0 | --- |
| 28.03 Bicyclist | 0 | 0 | 0 | 0 | --- |
| 28.04 Animal | 0 | 0 | 0 | 0 | --- |
| 28.05 Railroad Train | 0 | 0 | 0 | 0 | --- |
| 28.06 In-Line Skater | 0 | 0 | 0 | 0 | --- |
| 28.07 Deer | 0 | 0 | 0 | 0 | --- |
| 28.08 Other Pedestrian | 0 | 0 | 0 | 0 | --- |
| 28.10 Other Object (Not Fixed) | 0 | 0 | 0 | 0 | --- |
| Collision with Fixed Object | | | | | |
| 28.11 Light Support /Utility Pole | 0 | 0 | 0 | 0 | --- |
| 28.12 Guide Rail - Not At End | 0 | 0 | 0 | 0 | --- |
| 28.13 Crash Cushion | 0 | 0 | 0 | 0 | --- |
| 28.14 Sign Post | 0 | 0 | 0 | 0 | --- |
| 28.15 Tree | 0 | 0 | 0 | 0 | --- |
| 28.16 Building/Wall | 0 | 0 | 0 | 0 | --- |
| 28.17 Curbing | 0 | 0 | 0 | 0 | --- |
| 28.18 Fence | 0 | 0 | 0 | 0 | --- |
| 28.19 Bridge Structure | 0 | 0 | 0 | 0 | --- |
| 28.20 Culvert/Head Wall | 0 | 0 | 0 | 0 | --- |
| 28.21 Median - Not At End | 0 | 0 | 0 | 0 | --- |
| 28.22 Snow Embankment | 0 | 0 | 0 | 0 | --- |
| 28.23 Earth Embankment/Rock Cut/Ditch | 0 | 0 | 0 | 0 | --- |
| 28.24 Fire Hydrant | 0 | 0 | 0 | 0 | --- |
| 28.25 Guide Rail - At End | 0 | 0 | 0 | 0 | --- |
| 28.26 Median - End | 0 | 0 | 0 | 0 | --- |
| 28.27 Barrier | 0 | 0 | 0 | 0 | --- |
| 28.30 Other Fixed Object | 0 | 0 | 0 | 0 | --- |
| No Collision | | | | | |
| 28.31 Overtumed | 0 | 0 | 0 | 0 | --- |
| 28.32 Fire/Explosion | 0 | 0 | 0 | 0 | --- |
| 28.33 Submersion | 0 | 0 | 0 | 0 | --- |
| 28.34 Ran Off Roadway Only | 0 | 0 | 0 | 0 | --- |
| 28.40 Other | 0 | 0 | 0 | 0 | --- |

Hamlet: Village of Great Neck
Project No. M15-012

**Middle Neck Road and Clover Drive
NCDPW Accident Records
Sunday, January 01, 2012
through
Wednesday, April 01, 2015**

| | |
|---|--|
| Number of Months: 39.0 | Total Number of Accidents in 2012: 1.0 |
| Number of Years: 3.3 | Total Number of Accidents in 2013: 0.0 |
| Total Number of Accidents: 1.0 | Total Number of Accidents in 2014: 0.0 |
| Average Number of Accidents per Year: 0.3 | Total Number of Accidents in 2015 (January-March): 0.0 |

| Accident No. | Date | Hr | Min | # of Veh | # of Inj | Fatal | NCPD Accident Codes | | | | | | | | | | | Dist | Dir | | | | | | | | |
|---------------|----------|----|-----|----------|----------|-------|---------------------|---|---|---|---|---|---|---|----|----|----|------|-----|----|----|----|----|----|----|----|----|
| | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 20 | 21 | 22 | | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 060-0948-2012 | 04/02/12 | 14 | 01 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | N |

Hamlet: Village of Great Neck
 Project No. M15-012

**Middle Neck Road and Allenwood Road
 Detailed Accident Statistics**

| Accident Location | Total | Percentage |
|---|--------------|-------------------|
| At Intersection | 4 | 67% |
| North of Intersection | 1 | 17% |
| East of Intersection | 0 | --- |
| South of Intersection | 1 | 17% |
| West of Intersection | 0 | --- |
| Severity | | |
| | Total | Percentage |
| Property Damage Only | 5 | 83% |
| Accident with Injuries | 1 | 17% |
| Accident with Fatalities | 0 | --- |
| Code 1: Pedestrian Location | | |
| | Total | Percentage |
| 1.10 At Intersection | 0 | --- |
| 1.20 Not at Intersection | 0 | --- |
| 1.30 Non-Pedestrian Accident | 6 | 100% |
| Code 2: Pedestrian Action | | |
| | Total | Percentage |
| 2.01 Crossing, With Signal | 0 | --- |
| 2.02 Crossing, Against Signal | 0 | --- |
| 2.03 Crossing, No Signal, Marked Crosswalk | 0 | --- |
| 2.04 Crossing, No Signal or Crosswalk | 0 | --- |
| 2.05 Riding/Walking/Skating Alone Highway With Traffic | 0 | --- |
| 2.06 Riding/Walking/Skating Alone Highway Against Traffic | 0 | --- |
| 2.07 Emerging from in Front of/Behind Parked Vehicle | 0 | --- |
| 2.08 Going to/from Stopped School Bus | 0 | --- |
| 2.09 Getting On/Off Vehicle Other than School Bus | 0 | --- |
| 2.11 Working in Roadway | 0 | --- |
| 2.12 Playing in Roadway | 0 | --- |
| 2.13 Other Actions in Roadway | 0 | --- |
| 2.14 Not in Roadway (Indicate) | 0 | --- |
| Code 3: Traffic Control | | |
| | Total | Percentage |
| 3.01 None | 3 | 50% |
| 3.02 Traffic Signal | 3 | 50% |
| 3.03 Stop Sign | 0 | --- |
| 3.04 Flashing Light | 0 | --- |
| 3.05 Yield Sign | 0 | --- |
| 3.06 Officer/Guard | 0 | --- |
| 3.07 No Passing Zone | 0 | --- |
| 3.08 RR Crossing Sign | 0 | --- |
| 3.09 RR Crossing Flashing Light | 0 | --- |
| 3.10 RR Crossing Gate | 0 | --- |
| 3.11 Stopped School Bus-Red Lights Flashing | 0 | --- |
| 3.12 Construction Work Area | 0 | --- |
| 3.13 Maintenance Work Area | 0 | --- |
| 3.14 Utility Work Area | 0 | --- |
| 3.15 Police/Fire Emergency | 0 | --- |
| 3.16 School Zone | 0 | --- |
| 3.20 Other | 0 | --- |
| Code 4: Light Conditions | | |
| | Total | Percentage |
| 4.01 Daylight | 5 | 83% |
| 4.02 Dawn | 0 | --- |
| 4.03 Dusk | 1 | 17% |
| 4.04 Dark-Road Lighted | 0 | --- |
| 4.05 Dark-Road Unlighted | 0 | --- |
| Code 5: Roadway Character | | |
| | Total | Percentage |
| 5.01 Straight and Level | 6 | 100% |
| 5.02 Straight and Grade | 0 | --- |
| 5.03 Straight at Hillcrest | 0 | --- |
| 5.04 Curve and Level | 0 | --- |
| 5.05 Curve and Grade | 0 | --- |
| 5.06 Curve at Hillcrest | 0 | --- |
| Code 6: Roadway Surface Condition | | |
| | Total | Percentage |
| 6.01 Dry | 5 | 83% |
| 6.02 Wet | 1 | 17% |
| 6.03 Muddy | 0 | --- |
| 6.04 Snow/Ice | 0 | --- |
| 6.05 Slush | 0 | --- |
| 6.06 Flooded | 0 | --- |
| 6.00 Other | 0 | --- |

Hamlet: Village of Great Neck
 Project No. M15-012

Middle Neck Road and Allenwood Road
 Detailed Accident Statistics

| Code 7: Weather | Total | Percentage |
|-------------------------------|-------|------------|
| 7.01 Clear | 3 | 50% |
| 7.02 Cloudy | 3 | 50% |
| 7.03 Rain | 0 | --- |
| 7.04 Snow | 0 | --- |
| 7.05 Sleet/Hail/Freezing Rain | 0 | --- |
| 7.06 Fog/Smog/Smoke | 0 | --- |
| 7.00 Other | 0 | --- |

| Code 19: Apparent Contributing Factors | Veh 1 Code 19 | Veh 2 Code 20 | Veh 3 Code 21 | Veh 4 Code 22 | Total | Percentage |
|--|------------------|------------------|------------------|------------------|-------|------------|
| Human | | | | | | |
| 19.02 Alcohol Involvement | 0 | 0 | 0 | 0 | 0 | --- |
| 19.03 Backing Unsafely | 1 | 0 | 1 | 0 | 2 | 29% |
| 19.04 Driver Inattention/Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.05 Driver Inexperience | 0 | 0 | 0 | 0 | 0 | --- |
| 19.06 Drugs (illegal) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.07 Failure to Yield Right-of-Way | 0 | 0 | 0 | 0 | 0 | --- |
| 19.08 Fell Asleep | 0 | 0 | 0 | 0 | 0 | --- |
| 19.09 Following Too Closely | 2 | 0 | 0 | 0 | 2 | 29% |
| 19.10 Illness | 0 | 0 | 0 | 0 | 0 | --- |
| 19.11 Lost Consciousness | 0 | 0 | 0 | 0 | 0 | --- |
| 19.12 Passenger Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.13 Passing or Lane Usage Improper | 0 | 0 | 0 | 0 | 0 | --- |
| 19.14 Pedestrian /Bicyclist/Other Pedestrian Error/Confusion | 0 | 0 | 0 | 0 | 0 | --- |
| 19.15 Physical Disability | 0 | 0 | 0 | 0 | 0 | --- |
| 19.16 Prescription Medication | 0 | 0 | 0 | 0 | 0 | --- |
| 19.17 Traffic Control Disregarded | 0 | 0 | 0 | 0 | 0 | --- |
| 19.18 Turning Improperly | 1 | 0 | 0 | 0 | 1 | 14% |
| 19.19 Unsafe Speed | 0 | 0 | 0 | 0 | 0 | --- |
| 19.20 Unsafe Lane Changing | 1 | 0 | 0 | 0 | 1 | 14% |
| 19.21 Fatigued/Drowsy | 0 | 0 | 0 | 0 | 0 | --- |
| 19.22 Cell Phone (hand-held) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.23 Cell Phone (hands-free) | 0 | 0 | 0 | 0 | 0 | --- |
| 19.24 Other Electronic Device | 0 | 0 | 0 | 0 | 0 | --- |
| 19.25 Outside Car Distraction | 0 | 0 | 0 | 0 | 0 | --- |
| 19.26 Reaction to Other Uninvolved Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.27 Failure to Keep Right | 0 | 0 | 0 | 0 | 0 | --- |
| 19.28 Aggressive Driving/Road Rage | 0 | 0 | 0 | 0 | 0 | --- |
| Vehicular | | | | | | |
| 19.41 Accelerator Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.42 Brakes Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.43 Headlights Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.44 Other Lighting Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.45 Oversized Vehicle | 1 | 0 | 0 | 0 | 1 | 14% |
| 19.46 Steering Failure | 0 | 0 | 0 | 0 | 0 | --- |
| 19.47 Tire Failure/Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.48 Tow Hitch Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.49 Windshield Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.50 Driverless/Runaway Vehicle | 0 | 0 | 0 | 0 | 0 | --- |
| 19.60 Other Vehicular | 0 | 0 | 0 | 0 | 0 | --- |
| Environmental | | | | | | |
| 19.61 Animal's Action | 0 | 0 | 0 | 0 | 0 | --- |
| 19.62 Glare | 0 | 0 | 0 | 0 | 0 | --- |
| 19.63 Lane Marking Improper/Inadequate | 0 | 0 | 0 | 0 | 0 | --- |
| 19.64 Obstruction/Debris | 0 | 0 | 0 | 0 | 0 | --- |
| 19.65 Pavement Defective | 0 | 0 | 0 | 0 | 0 | --- |
| 19.66 Pavement Slippery | 0 | 0 | 0 | 0 | 0 | --- |
| 19.67 Shoulder Defective/Improper | 0 | 0 | 0 | 0 | 0 | --- |
| 19.68 Traffic Control Device Improper/Non-Working | 0 | 0 | 0 | 0 | 0 | --- |
| 19.69 View Obstruction/Limited | 0 | 0 | 0 | 0 | 0 | --- |

| Code 23: Direction of Vehicle | Veh 1 Code 23 | Veh 2 Code 24 | Total | Percentage |
|-------------------------------|------------------|------------------|-------|------------|
| 23.01 North | 3 | 2 | 5 | 45% |
| 23.02 North-East | 1 | 0 | 1 | 9% |
| 23.03 East | 0 | 0 | 0 | --- |
| 23.04 South-East | 0 | 0 | 0 | --- |
| 23.05 South | 2 | 3 | 5 | 45% |
| 23.06 South-West | 0 | 0 | 0 | --- |
| 23.07 West | 0 | 0 | 0 | --- |
| 23.08 North-West | 0 | 0 | 0 | --- |

Hamlet: Village of Great Neck
 Project No. M15-012

Middle Neck Road and Allenwood Road
 Detailed Accident Statistics

| Code 25: Pre-Accident Vehicle Action | Veh 1 Code 25 | Veh 2 Code 26 | Total | Percentage | |
|--|------------------------------------|--------------------------|--------------------------|-------------------|-------------------|
| 25.01 Going Straight Ahead | 2 | 1 | 3 | 27% | |
| 25.02 Making Right Turn | 1 | 0 | 1 | 9% | |
| 25.03 Making Left Turn | 0 | 0 | 0 | --- | |
| 25.04 Making U Turn | 0 | 0 | 0 | --- | |
| 25.05 Starting from Parking | 0 | 0 | 0 | --- | |
| 25.06 Starting in Traffic | 0 | 0 | 0 | --- | |
| 25.07 Slowing or Stopping | 0 | 1 | 1 | 9% | |
| 25.08 Stopped in Traffic | 0 | 1 | 1 | 9% | |
| 25.09 Entering Parked Position | 1 | 0 | 1 | 9% | |
| 25.10 Parked | 0 | 1 | 1 | 9% | |
| 25.11 Avoiding Object in Roadway | 0 | 0 | 0 | --- | |
| 25.12 Changing Lanes | 1 | 0 | 1 | 9% | |
| 25.13 Passing | 0 | 0 | 0 | --- | |
| 25.14 Merging | 0 | 0 | 0 | --- | |
| 25.15 Backing | 1 | 1 | 2 | 18% | |
| 25.16 Making Right Turn on Red | 0 | 0 | 0 | --- | |
| 25.17 Making Left Turn on Red | 0 | 0 | 0 | --- | |
| 25.18 Police Pursuit | 0 | 0 | 0 | --- | |
| 25.20 Other | 0 | 0 | 0 | --- | |
| Code 27: Location of First Event | | | Total | Percentage | |
| 27.01 On Roadway | | | 5 | 83% | |
| 27.02 Off Roadway | | | 1 | 17% | |
| Code 28: Type of Accident -- Collision With | First Event Code 28 | Veh 1 Code 29 | Veh 2 Code 30 | Total | Percentage |
| 28.01 Other Motor Vehicle | 5 | 0 | 1 | 6 | 86% |
| 28.02 Pedestrian | 0 | 0 | 0 | 0 | --- |
| 28.03 Bicyclist | 0 | 0 | 0 | 0 | --- |
| 28.04 Animal | 0 | 0 | 0 | 0 | --- |
| 28.05 Railroad Train | 0 | 0 | 0 | 0 | --- |
| 28.06 In-Line Skater | 0 | 0 | 0 | 0 | --- |
| 28.07 Deer | 0 | 0 | 0 | 0 | --- |
| 28.08 Other Pedestrian | 0 | 0 | 0 | 0 | --- |
| 28.10 Other Object (Not Fixed) | 0 | 0 | 0 | 0 | --- |
| Collision with Fixed Object | | | | | |
| 28.11 Light Support /Utility Pole | 0 | 0 | 0 | 0 | --- |
| 28.12 Guide Rail - Not At End | 0 | 0 | 0 | 0 | --- |
| 28.13 Crash Cushion | 0 | 0 | 0 | 0 | --- |
| 28.14 Sign Post | 0 | 0 | 0 | 0 | --- |
| 28.15 Tree | 0 | 0 | 0 | 0 | --- |
| 28.16 Building/Wall | 1 | 0 | 0 | 1 | 14% |
| 28.17 Curbing | 0 | 0 | 0 | 0 | --- |
| 28.18 Fence | 0 | 0 | 0 | 0 | --- |
| 28.19 Bridge Structure | 0 | 0 | 0 | 0 | --- |
| 28.20 Culvert/Head Wall | 0 | 0 | 0 | 0 | --- |
| 28.21 Median - Not At End | 0 | 0 | 0 | 0 | --- |
| 28.22 Snow Embankment | 0 | 0 | 0 | 0 | --- |
| 28.23 Earth Embankment/Rock Cut/Ditch | 0 | 0 | 0 | 0 | --- |
| 28.24 Fire Hydrant | 0 | 0 | 0 | 0 | --- |
| 28.25 Guide Rail - At End | 0 | 0 | 0 | 0 | --- |
| 28.26 Median - End | 0 | 0 | 0 | 0 | --- |
| 28.27 Barrier | 0 | 0 | 0 | 0 | --- |
| 28.30 Other Fixed Object | 0 | 0 | 0 | 0 | --- |
| No Collision | | | | | |
| 28.31 Overtumed | 0 | 0 | 0 | 0 | --- |
| 28.32 Fire/Explosion | 0 | 0 | 0 | 0 | --- |
| 28.33 Submersion | 0 | 0 | 0 | 0 | --- |
| 28.34 Ran Off Roadway Only | 0 | 0 | 0 | 0 | --- |
| 28.40 Other | 0 | 0 | 0 | 0 | --- |

Hamlet: Village of Great Neck
 Project No. M15-012

**Middle Neck Road and Allenwood Road
 NCDPW Accident Records
 Sunday, January 01, 2012
 through
 Wednesday, April 01, 2015**

Number of Months: 39.0
 Number of Years: 3.3
 Total Number of Accidents: 6.0
 Average Number of Accidents per Year: 2.0

Total Number of Accidents in 2012: 2.0
 Total Number of Accidents in 2013: 2.0
 Total Number of Accidents in 2014: 1.0
 Total Number of Accidents in 2015 (January-March): 1.0

| Accident No. | Date | Hr | Min | # of Veh | # of Inj | Fatal | NCPD Accident Codes | | | | | | | | | | | | Dist | Dir | | | | | | | | | |
|---------------|----------|----|-----|----------|----------|-------|---------------------|---|---|---|---|---|----|----|----|----|----|----|------|-----|----|----|----|----|----|-----|----|---|---|
| | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 19 | 20 | 21 | 22 | 23 | | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | |
| 060-0750-2012 | 03/15/12 | 13 | 14 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 20 | 0 | 0 | 0 | 0 | 5 | 12 | 1 | 1 | 1 | 0 | 0 | 30 | S | |
| 030-5684-2012 | 09/13/12 | 18 | 47 | 1 | 0 | 0 | 0 | 2 | 3 | 1 | 1 | 1 | 1 | 18 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 16 | 0 | 0 | 0 | I |
| 030-4426-2013 | 05/31/13 | 14 | 06 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 3 | 0 | 3 | 0 | 1 | 5 | 15 | 15 | 1 | 1 | 1 | 0 | 0 | 100 | N | | |
| 030-4569-2013 | 06/04/13 | 17 | 50 | 2 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 1 | 9 | 0 | 0 | 0 | 5 | 5 | 1 | 8 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | I | |
| 030-6468-2014 | 07/28/14 | 11 | 55 | 3 | 3 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 7 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | I | |
| 600-2454-2015 | 03/17/15 | 10 | 36 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 45 | 0 | 0 | 0 | 1 | 1 | 9 | 10 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | I | |

EXISTING TRAFFIC VOLUMES

Turning movement counts were collected during the weekday morning and evening peak hours at the study intersections. Counts were also collected on Saturday afternoon. The peak hours of commuter traffic on Middle Neck Road are consistent with the peak hours studied. The peak hour turning movement volumes are provided within the Technical Appendix. The turning movement data was collected during the following time periods:

- In the morning from 7:00 a.m. to 9:00 a.m.
- In the evening from 4:00 p.m. to 6:00 p.m.
- On Saturday from 8:00 a.m. to 2:00 p.m.

Counts were collected on Thursday, March 19th and Saturday March 28, 2015. The following is a list of the study intersections included in our analysis of the proposed project.

1. Middle Neck Road and Old Mill Road/Piccadilly Road
2. Middle Neck Road and the North Site Access
3. Middle Neck Road and Wooleys Lane
4. Middle Neck Road and the Millbrook Court
5. Middle Neck Road and the South Site Access
6. Middle Neck Road and Clover Drive
7. Middle Neck Road and Allenwood Road

A majority of the turning movement counts were collected using Miovision Scout Video Collection Units. Electronic Jamar hand-held Traffic Data Collectors were used to collect counts at the balance of the study intersections. The turning movement count data was processed using PETRAPro software.

The results of these traffic counts were analyzed to determine the distinct hour during each of the time periods surveyed when traffic experiences its highest level referred to as the “peak hour.” The peak hour volume is used in our analysis to model the critical demand during each time period. The percent of heavy vehicles was calculated for each intersection during the peak hours.

PEDESTRIAN VOLUMES

Pedestrian counts were collected at each of the study intersections. These counts represent the number of pedestrians crossing the street. Pedestrian counts are collected in one of four categories:

- Ped 1. Pedestrians travelling east or west crossing traffic on the north side of the intersection;
- Ped 2. Pedestrians travelling north or south crossing traffic on the east side of the intersection;
- Ped 3. Pedestrians travelling east or west crossing traffic on the south side of the intersection; and
- Ped 4. Pedestrians travelling north or south crossing traffic on the west side of the intersection;

ADJUSTED TRAFFIC VOLUME FLOW RATE

The Highway Capacity Analysis uses the adjusted flow rate based on the peak hour volume and the peak hour factor at each location. The peak hour volume is divided by the peak hour factor to produce the critical 15 minute demand projected over the entire one hour period. The results of this analysis provide the level of service experienced during the busiest 15 minute period within the peak hour.

PERCENT HEAVY VEHICLE ADJUSTED

The turning movement counts have been adjusted to account for buses and trucks. A passenger car equivalent of 2.0 was applied to each bus and truck observed during the turning movement counts at the study intersections.

PEDESTRIAN ANALYSIS

The Highway Capacity Analysis prepared for the Saturday peak hour at the study intersections reflects the number of pedestrians crossing each approach. The volume of pedestrians in the area on Saturday is significantly higher than on the weekdays. The analysis groups pedestrian volumes with respect to specific movements. Turn movements at unsignalized intersections will conflict with pedestrians crossing in front of the vehicle as well as though crossing the approach the vehicle is turning onto. At signalized intersections though movements should not conflict with pedestrians as the pedestrians would be crossing against traffic. The pedestrian counts are included in the technical appendix.

NO BUILD CONDITIONS

AMBIENT TRAFFIC GROWTH

The volume of traffic using the roadway network changes each year based on population growth and development. An ambient growth rate is used to determine the future base traffic volumes. The ambient growth rate takes into account developments that will increase the volume of traffic at the study intersections prior to the completion of this project.

The subject property is located within Census Tract 36059-3003.00. The following table provides census data for the area surrounding the subject site. The population data provides information on population changes that have occurred in the area over the past 20 years. This historical data is used to calculate the anticipated future growth rate.

| Census Tract | Area (in square-miles) | Population 2010 | ¹ Population Change | | |
|---------------|---------------------------|--------------------|--------------------------------|-----------|-----------|
| | | | 1990-2000 | 2000-2010 | 2010-2015 |
| 36059.3001.00 | 3.3418 | 5,152 | 0.50 | 0.15 | 0.04 |
| 36059.3003.00 | 0.6361 | 4,547 | 1.40 | 0.43 | 0.22 |
| 36059.3004.00 | 0.7214 | 5,199 | 0.30 | 0.02 | 0.05 |
| 36059.3005.00 | 1.2362 | 5,377 | -0.20 | -0.01 | 0.03 |
| 36059.3006.00 | 1.0803 | 6,503 | 0.10 | 0.09 | 0.10 |
| Total/Average | 7.0158 | 26,778 | 0.42 | 0.14 | 0.09 |

The existing traffic volumes at the study intersections were increased by a growth rate factor of 1.0 % compounded yearly. This rate was applied based on conversations with the Nassau County Department of Public Works Traffic Engineering Department. This rate exceeds the standard ambient growth forecasted for this area. The growth rate is applied to the existing volumes to generate the ambient no build traffic volumes. For the purposes of this analysis, the future no build and build conditions are anticipated to occur in 2020.

¹ Source: US Census/ESRI Demographic Update Methodology: 2010/2015

OTHER PLANNED PROJECTS

The following provides a list of projects that are currently being contemplated and may be developed in proximity to the site. The traffic generated by these projects is included in the analysis of the future no build condition for this project.

1. 100 Clover Drive; and
2. The Rose Apartment Complex

These projects are in close proximity to the subject site and are considered in addition to the ambient background growth rate. The ambient growth rate is used to incorporate traffic from other planned projects located further away from the subject site which may still influence the future traffic volumes at the study intersections.

FUTURE BUILD CONDITIONS

TRIP GENERATION

The development of the subject site will generate a certain number of vehicle trips throughout the day. The volume of trips generated by the site was calculated using the standard calculations compiled by the Institute of Transportation Engineers (ITE) in the 9th Edition Trip Generation, 2012. This is often referred to as the Trip Generation Manual and is considered the industry standard for traffic engineering studies.

The trip generation of the development was calculated using the ITE Land Use Code 220. The independent variable used in the calculation is the number of “dwelling units”. This land use code represents Apartments. The volumes below represent the peak number of trips generated during a one hour time period.

**ITE Land Use 220
67 Apartment Units – Net Change**

| Proposed | AM Peak | PM Peak | Saturday Peak |
|----------------|-----------|-----------|---------------|
| Entering | 7 | 27 | 17 |
| <u>Exiting</u> | <u>27</u> | <u>15</u> | <u>17</u> |
| Total | 34 | 42 | 34 |

**ITE Land Use 220
186 Apartment Units – Overall Proposed Development**

| Proposed | AM Peak | PM Peak | Saturday Peak |
|----------------|-----------|-----------|---------------|
| Entering | 19 | 75 | 48 |
| <u>Exiting</u> | <u>76</u> | <u>40</u> | <u>48</u> |
| Total | 95 | 115 | 86 |

The existing and no building highway capacity analysis utilize actual turning movement counts at the site driveways. The build highway capacity analysis at the site driveways utilizes the trip generation based on the overall 186 proposed units.

SITE ACCESS

The proposed site will maintain the existing site driveways. The site has one driveway to the north, one in the center of the property and one to the south. The central driveway is known as Millbrook Court.

The north and south driveways will be reconfigured. The south driveway will allow entrance only traffic flow from Middle Neck Road. The north driveway will permit exit only traffic flow onto Middle Neck Road. The center driveway/Millbrook Court will maintain two way traffic flow.

The site access design and parking configuration is illustrated on the site plan set prepared by Newman Design Architects, PLLC. The project architect has also prepared plans showing fire truck access routes to various locations on site. The proposed development is subject to the review and approval of the Village of Great Neck, the local fire department and the Nassau County Fire Marshall.

MODAL SPLIT

According to the Census Bureau's Population Estimates Program 22.0% of commuters in the Village of Great Neck used public transportation. The overall 186 apartment units will generate a maximum of 76 additional trips (in any one direction trips in the opposite direction would be added to other buses and/or trains). Twenty two percent of these trips represent 16 to 17 commuters using public transportation during the peak hours. These numbers include transit trips generated by the existing 119 apartment units. The site is located along the N58 bus line which goes to the Great Neck train station. The bus passes the site numerous times during the morning and evening peak hours. The proposed project is not anticipated to impact the existing bus or train capacity.

PEDESTRIAN ACTIVITY

Based on the Census Bureau's Population Estimates Program, 5.0% of commuters in the Village of Great Neck walk to work. The site is anticipated to generate approximately 2 to 3 pedestrian trip during the commuter peak hours. The volume of pedestrian trips generated by the subject site is not anticipated to impact the existing level of service on the sidewalks or crosswalks in the surrounding community.

TRIP DISTRIBUTION

Trips generated by the development of the subject site are distributed throughout the roadway network and assigned to the study intersections. The percent distribution is applied to the trip generation to establish the number of trips assigned to specific turning movements at each of the study intersections. One hundred percent of the trip generation is distributed and assigned to the site access.

A portion of the total trip generation is distributed and assigned to each of the other study intersections. The volume of trips assigned to each intersection is based on the percentage of vehicles that are anticipated to use these intersections while traveling to and from the site. The distribution at the site driveway is based on the local roadway network.

The existing site driveway configuration will change as part of this redevelopment. The northern driveway will be converted to an exit only. The southern driveway will be converted to an entrance only. These one-way driveways are connected via an aisle or roadway wrapping around the western edge of the property. The central driveway, also known as, Millbrook Court will remain two way. Millbrook Court will however service approximately 50 percent less on-site parking spaces upon completion of the project.

The existing traffic generated by the site was redistributed to account for these changes. The existing traffic volumes at Millbrook Court were decreased by 50%. These trips were then assigned to the driveways to the north and south. The arrival and departure patterns are based on the existing driveway utilization during the peak hours.

PARKING STUDY

Our office conducted a parking study of the subject site and surrounding area. Parking observations were conducted on Tuesday, May 12, 2015 between the hours of 10:00 pm and 11:30 pm. These hours reflect peak demand associated with residential uses. In addition to the parking provided on the subject site parking counts were conducted on Middle Neck Road from Old Mill Road to Clover Drive (on the west) and from Piccadilly Road to Allenwood Road (on the east).

The complex currently provides 62 semi private garages. These potential parking spaces are not included in the available parking shown on the parking tables provided in the technical appendix.

The results of our study show that limited on street parking is available in proximity to the subject site in the overnight hours. A minimum of 18 parking spaces in total were available on site in the north and south parking lots. The parking spaces along Millbrook Court were found to be 100% occupied during our observations.

PARKING GENERATION

The development of the subject site will generate a certain number of parked vehicles. The number of parked vehicles generated by the proposed development was based on the standard calculations compiled by the Institute of Transportation Engineers (ITE) in the 4th Edition Parking Generation, 2010. This is often referred to as the Parking Generation Manual and is considered the industry standard for traffic engineering studies.

The parking generation of the proposed development was calculated using the ITE Land Use Code 221. The independent variable used in the calculation is the “dwelling units”. This land use code represents Low/Mid-Rise Apartments. The ITE defines Low/Mid-Rise Apartments as those with 4 or fewer floors. High-Rise Apartments are defined, by ITE, as having five or more floors.

Based on the ITE parking generation data, the existing complex consisting of a total of 119 apartment units is anticipated to generate 147 parked vehicles during peak demand. Of these vehicles approximately 13 would need to park offsite.

Based on the ITE parking generation data, the proposed complex consisting of a total of 186 apartment units is anticipated to generate 230 parked vehicles during peak demand. Peak parking demand for residential developments occurs during the overnight hours between 10:00 pm and 5:00 am.

The site plans prepared, by NDA Architects, for the proposed project provides for a total of 314 parking spaces.

The existing apartment complex provides approximately 1.13 parking spaces for each apartment unit (134 parking spaces/119 units). Upon completion of the project the site will provide 1.69 parking spaces per unit (314 parking spaces/186 units). The proposed site provides ample parking to accommodate the anticipated demand. The redevelopment of the site is anticipated to decrease on street parking demand in proximity to the site. Based on the statistics compiled by the ITE, the proposed site will have a peak occupancy rate of approximately 75%.

According to the Census Bureau's Population Estimates Program 87.5% of households in the Village of Great Neck have 2 or fewer vehicles and 47.5% have 1 or no vehicles. The average household has 1.57 vehicles. Vehicle ownership is a primary component of residential parking demand.

Based on the ITE and Census data the proposed project supplies ample parking to accommodate the anticipated demand.

TANDEM PARKING

Twenty-two of the 314 on-site parking spaces provided will be in tandem with another parking space. Tandem parking is subject to the review and approval of the Board of Trustees as per the following section of the Village Code:

Section 575-155 Parking in residence districts B (1)(d) Tandem parking for residential units, with the condition that all parking spaces that are in tandem with each other shall be assigned to the same unit, shall be subject to the approval of the Board of Trustees.

The tandem spaces will be located within the proposed parking garage associated with the north building. The proposed north building provides a total of 59 units. Twenty-two of these units will be assigned tandem parking spaces.

Tandem parking has been incorporated into other projects in the Village such as the Versailles apartment complex located directly to the north of the subject site. The tandem parking utilized by the Versailles apartment complex received approval by Board of Trustees.

CONSTRUCTION

A. Pappajohn Company is the general contractor for this project. Site Logistics Plans have been prepared detailing the various phases of construction. These plans and information provided by the developer are the basis of the information provided within this section of the report.

PROJECT SCHEDULE

The construction of the project is anticipated to be completed within 23 months (approximately 2 years). The project will be completed in two phases. Each phase of the project will take approximately one year.

Existing Conditions: 119 units 134 parking spaces

Phase No. 1

- Demolition of 6 existing units
- Construction of rear drive aisle
- Excavation of Millbrook Court
- Construction of South and West Parking Garages
- Construction of 8 surface parking spaces
- Construction of 42 new units (south and west building)
- Replacement of Millbrook Court

Phase No. 1 Conditions: 155 units 252 parking spaces

Phase No. 2

- Demolition of 28 existing units
- Construction of North Parking Garage
- Construction of 6 surface parking spaces
- Construction of 59 new units (north building)

Phase No. 2 Conditions: 186 units 314 parking spaces

LEVEL OF SERVICE TABLES

The following provides the results of the highway capacity analysis prepared for this project in terms of level of service and delay experienced at the study intersections, under the Existing, No Build and Build Conditions. The delay provided for signalized intersections represents the overall average intersection delay in seconds. The delay provided for stop controlled intersections represents the control delay on the critical approach in seconds. The technical appendix includes the highway capacity analysis output files detailing the level of service and delay at each of the study intersections.

The “Existing Condition” provides an analysis of the critical 15 minute period during the peak hour observed at the study intersections. The “No Build Condition” takes into account the background traffic growth and other planned projects that will increase the traffic volumes at the study intersections. To determine the future volume of traffic on the roadway network upon completion of the proposed project; the “Build Condition” considers the trip generation, trip distribution and no build traffic volumes.

The Build analysis evaluates the cumulative impacts of the ambient background growth rate, the other planned projects in proximity to the subject site and the trips generated by the proposed development.

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Old Mill Road at Middle Neck Road | | | | | | | | | | | |
| Control Type | Traffic Signal | | | | | | | | | | | |
| Time Period | AM Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.23 | --- | 0.61 | --- | 0.37 | --- | 0.31 | 0.35 | 0.35 | 0.41 | --- | 0.45 |
| Delay (sec) | 13.4 | --- | 15.9 | --- | 14.3 | --- | 11.6 | 6.7 | 6.6 | 7.2 | --- | 7.8 |
| LOS | B | --- | B | --- | B | --- | B | A | A | A | --- | A |
| Approach Delay (sec) | | 15.0 | | | 14.3 | | | 7.5 | | | 7.5 | |
| Approach LOS | | B | | | B | | | A | | | A | |
| Overall Delay (sec) | 9.1 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.24 | --- | 0.63 | --- | 0.39 | --- | 0.34 | 0.37 | 0.37 | 0.44 | --- | 0.48 |
| Delay (sec) | 13.3 | --- | 16.0 | --- | 14.5 | --- | 12.9 | 6.9 | 6.9 | 7.5 | --- | 8.2 |
| LOS | B | --- | B | --- | B | --- | B | A | A | A | --- | A |
| Approach Delay (sec) | | 15.0 | | | 14.5 | | | 7.9 | | | 7.8 | |
| Approach LOS | | B | | | B | | | A | | | A | |
| Overall Delay (sec) | 9.4 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.24 | --- | 0.63 | --- | 0.39 | --- | 0.34 | 0.37 | 0.38 | 0.44 | --- | 0.48 |
| Delay (sec) | 13.3 | --- | 16.0 | --- | 14.5 | --- | 13.0 | 7.0 | 6.9 | 7.6 | --- | 8.2 |
| LOS | B | --- | B | --- | B | --- | B | A | A | A | --- | A |
| Approach Delay (sec) | | 15.1 | | | 14.5 | | | 8.0 | | | 7.9 | |
| Approach LOS | | B | | | B | | | A | | | A | |
| Overall Delay (sec) | 9.5 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|-------------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.00 | --- | 0.00 | --- | 0.00 | --- | 0.00 | 0.00 | 0.01 | 0.00 | --- | 0.00 |
| Delay (sec) | 0.0 | --- | 0.0 | --- | 0.0 | --- | 0.1 | 0.1 | 0.0 | 0.1 | --- | 0.0 |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 0.1 | | | 0.0 | | | 0.1 | | | 0.1 | |
| Approach LOS | | --- | | | --- | | | --- | | | --- | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | North Site Entrance at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | AM Peak Hour | | | | | | | | | | | |

| Condition | | EXISTING | | | | | | | | | | | |
|----------------------|-----------|----------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.05 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 12.9 | --- | --- | --- | --- | 0.0 | --- | --- | --- | --- | --- | |
| LOS | --- | B | --- | --- | --- | --- | A | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | --- | 12.9 | --- | --- | --- | --- | --- | 0.0 | --- | --- | --- | --- | |
| Approach LOS | --- | B | --- | --- | --- | --- | --- | A | --- | --- | --- | --- | |
| Overall Delay (sec) | 0.2 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD | | | | | | | | | | | |
|----------------------|-----------|----------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.05 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 13.4 | --- | --- | --- | --- | 0.0 | --- | --- | --- | --- | --- | |
| LOS | --- | B | --- | --- | --- | --- | A | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | --- | 13.4 | --- | --- | --- | --- | --- | 0.0 | --- | --- | --- | --- | |
| Approach LOS | --- | B | --- | --- | --- | --- | --- | A | --- | --- | --- | --- | |
| Overall Delay (sec) | 0.2 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | BUILD | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 17.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| LOS | --- | C | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | --- | 17.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach LOS | --- | C | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Overall Delay (sec) | 1.0 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD TO BUILD COMPARISON | | | | | | | | | | | |
|----------------------|-----------|------------------------------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 4.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| LOS | --- | Impact | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | --- | 4.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach LOS | --- | Impact | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Overall Delay (sec) | 0.8 | | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | | |

Note:
 Build condition on the northbound approach improves as the driveway will become exit only.

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| | | | | | | | | | | | | |
|--------------|---|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Wooleys Lane at Middle Neck Road | | | | | | | | | | | |
| Control Type | Traffic Signal | | | | | | | | | | | |
| Time Period | AM Peak Hour | | | | | | | | | | | |

| Condition | | EXISTING | | | | | | | | | | | |
|----------------------|-----------|-----------------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | --- | --- | --- | 0.24 | --- | --- | 0.34 | --- | --- | 0.59 | --- | |
| Delay (sec) | --- | --- | --- | --- | 20.2 | --- | --- | 4.4 | --- | --- | 6.5 | --- | |
| LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- | |
| Approach Delay (sec) | --- | --- | --- | --- | 20.2 | --- | --- | 4.4 | --- | --- | 6.5 | --- | |
| Approach LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- | |
| Overall Delay (sec) | 6.7 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD | | | | | | | | | | | |
|----------------------|-----------|-----------------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | --- | --- | --- | 0.25 | --- | --- | 0.36 | --- | --- | 0.63 | --- | |
| Delay (sec) | --- | --- | --- | --- | 20.2 | --- | --- | 4.5 | --- | --- | 7.0 | --- | |
| LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- | |
| Approach Delay (sec) | --- | --- | --- | --- | 20.2 | --- | --- | 4.5 | --- | --- | 7.0 | --- | |
| Approach LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- | |
| Overall Delay (sec) | 7.0 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | BUILD | | | | | | | | | | | |
|----------------------|-----------|--------------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | --- | --- | --- | 0.25 | --- | --- | 0.36 | --- | --- | 0.65 | --- | |
| Delay (sec) | --- | --- | --- | --- | 19.7 | --- | --- | 4.1 | --- | --- | 5.4 | --- | |
| LOS | --- | --- | --- | --- | B | --- | --- | A | --- | --- | A | --- | |
| Approach Delay (sec) | --- | --- | --- | --- | 20.2 | --- | --- | 4.5 | --- | --- | 7.2 | --- | |
| Approach LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- | |
| Overall Delay (sec) | 7.1 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD TO BUILD COMPARISON | | | | | | | | | | | |
|----------------------|-----------|-------------------------------------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | --- | --- | --- | 0.00 | --- | --- | 0.00 | --- | --- | 0.02 | --- | |
| Delay (sec) | --- | --- | --- | --- | -0.5 | --- | --- | -0.4 | --- | --- | -1.6 | --- | |
| LOS | --- | --- | --- | --- | Impact | --- | --- | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | --- | --- | --- | --- | 0.0 | --- | --- | 0.0 | --- | --- | 0.2 | --- | |
| Approach LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | | |

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Millbrook Court at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | AM Peak Hour | | | | | | | | | | | |

| Condition | EXISTING | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.07 | --- | --- | --- | --- | 0.01 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 17.6 | --- | --- | --- | --- | 10.0 | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 17.6 | | | | | | 0.2 | | | | |
| Approach LOS | | C | | | | | | A | | | | |
| Overall Delay (sec) | 0.3 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| Condition | NO BUILD | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.07 | --- | --- | --- | --- | 0.01 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 18.5 | --- | --- | --- | --- | 10.2 | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | B | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 18.5 | | | | | | 0.1 | | | | |
| Approach LOS | | C | | | | | | A | | | | |
| Overall Delay (sec) | 0.3 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| Condition | BUILD | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.04 | --- | --- | --- | --- | 0.01 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 18.5 | --- | --- | --- | --- | 10.3 | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | B | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 18.5 | | | | | | 0.1 | | | | |
| Approach LOS | | C | | | | | | A | | | | |
| Overall Delay (sec) | 0.2 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| Condition | NO BUILD TO BUILD COMPARISON | | | | | | | | | | | |
|----------------------|------------------------------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | -0.04 | --- | --- | --- | --- | -0.01 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 0.0 | --- | --- | --- | --- | 0.10 | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 0.0 | | | | | | 0.0 | | | | |
| Approach LOS | | --- | | | | | | --- | | | | |
| Overall Delay (sec) | -0.1 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | South Site Access at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | AM Peak Hour | | | | | | | | | | | |

| Condition | | EXISTING | | | | | | | | | | | |
|----------------------|-----------|----------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.02 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 15.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| LOS | --- | B | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | 15.0 | | | | | | | | | | | |
| Approach LOS | | B | | | | | | | | | | | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD | | | | | | | | | | | |
|----------------------|-----------|----------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.02 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 15.7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| LOS | --- | C | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | 15.7 | | | | | | | | | | | |
| Approach LOS | | C | | | | | | | | | | | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | BUILD | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | --- | --- | --- | --- | --- | 0.01 | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | --- | --- | --- | --- | --- | 10.6 | --- | --- | --- | --- | --- | |
| LOS | --- | --- | --- | --- | --- | --- | B | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | --- | | | | | | 10.6 | | | | | |
| Approach LOS | | --- | | | | | | B | | | | | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD TO BUILD COMPARISON | | | | | | | | | | | |
|----------------------|-----------|------------------------------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | --- | | | | | | --- | | | | | |
| Approach LOS | | --- | | | | | | --- | | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | | |

Note:
 Build condition: the driveway will become entrance only.

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Clover Drive at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | AM Peak Hour | | | | | | | | | | | |

| Condition | | EXISTING | | | | | | | | | | | |
|----------------------|-----------|----------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.33 | --- | --- | --- | --- | 0.09 | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 38.3 | --- | --- | --- | --- | 10.6 | --- | --- | --- | --- | --- | |
| LOS | --- | E | --- | --- | --- | --- | B | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | 38.3 | | | | | | 0.6 | | | | | |
| Approach LOS | | E | | | | | | A | | | | | |
| Overall Delay (sec) | 1.8 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD | | | | | | | | | | | |
|----------------------|-----------|----------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.35 | --- | --- | --- | --- | 0.09 | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 41.6 | --- | --- | --- | --- | 10.9 | --- | --- | --- | --- | --- | |
| LOS | --- | E | --- | --- | --- | --- | B | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | 41.6 | | | | | | 0.7 | | | | | |
| Approach LOS | | E | | | | | | A | | | | | |
| Overall Delay (sec) | 1.8 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | BUILD | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.36 | --- | --- | --- | --- | 0.09 | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 43.5 | --- | --- | --- | --- | 11.0 | --- | --- | --- | --- | --- | |
| LOS | --- | E | --- | --- | --- | --- | B | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | 43.5 | | | | | | 0.7 | | | | | |
| Approach LOS | | E | | | | | | A | | | | | |
| Overall Delay (sec) | 1.8 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD TO BUILD COMPARISON | | | | | | | | | | | |
|----------------------|-----------|------------------------------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.01 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 1.9 | --- | --- | --- | --- | 0.10 | --- | --- | --- | --- | --- | |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | 1.9 | | | | | | 0.0 | | | | | |
| Approach LOS | | --- | | | | | | --- | | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | | |

Note:
 No build condition includes the closure of a commercial driveway on Clover Drive to the west of Middle Neck Road.

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| | | | | | | | | | | | | |
|--------------|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Allenwood Road at Middle Neck Road | | | | | | | | | | | |
| Control Type | Traffic Signal | | | | | | | | | | | |
| Time Period | AM Peak Hour | | | | | | | | | | | |

| Condition | | EXISTING | | | | | | | | | | | |
|----------------------|-----------|----------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | --- | --- | --- | 0.38 | --- | --- | 0.36 | --- | --- | 0.48 | --- | |
| Delay (sec) | --- | --- | --- | --- | 16.9 | --- | --- | 5.3 | --- | --- | 6.2 | --- | |
| LOS | --- | --- | --- | --- | B | --- | --- | A | --- | --- | A | --- | |
| Approach Delay (sec) | --- | | | 16.9 | | | 5.3 | | | 6.2 | | | |
| Approach LOS | --- | | | B | | | A | | | A | | | |
| Overall Delay (sec) | 6.7 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD | | | | | | | | | | | |
|----------------------|-----------|----------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.01 | --- | --- | 0.16 | --- | --- | 0.44 | --- | --- | 0.57 | --- | |
| Delay (sec) | --- | 23.9 | --- | --- | 18.7 | --- | --- | 8.1 | --- | --- | 9.3 | --- | |
| LOS | --- | C | --- | --- | B | --- | --- | A | --- | --- | A | --- | |
| Approach Delay (sec) | --- | | | 18.7 | | | 8.1 | | | 9.3 | | | |
| Approach LOS | --- | | | B | | | A | | | A | | | |
| Overall Delay (sec) | 9.6 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | BUILD | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.01 | --- | --- | 0.16 | --- | --- | 0.44 | --- | --- | 0.58 | --- | |
| Delay (sec) | --- | 23.9 | --- | --- | 18.7 | --- | --- | 8.1 | --- | --- | 9.5 | --- | |
| LOS | --- | C | --- | --- | B | --- | --- | A | --- | --- | A | --- | |
| Approach Delay (sec) | --- | | | 18.7 | | | 8.1 | | | 9.5 | | | |
| Approach LOS | --- | | | B | | | A | | | A | | | |
| Overall Delay (sec) | 9.7 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD TO BUILD COMPARISON | | | | | | | | | | | |
|----------------------|-----------|------------------------------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.00 | --- | --- | 0.00 | --- | --- | 0.00 | --- | --- | 0.01 | --- | |
| Delay (sec) | --- | 0.0 | --- | --- | 0.0 | --- | --- | 0.0 | --- | --- | 0.2 | --- | |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | --- | | | 0.0 | | | 0.0 | | | 0.2 | | | |
| Approach LOS | --- | | | --- | | | --- | | | --- | | | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | | |

Note:
 No build condition changes compared to existing condition due to the addition of an eastbound approach controlled by the traffic signal.

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Old Mill Road at Middle Neck Road | | | | | | | | | | | |
| Control Type | Traffic Signal | | | | | | | | | | | |
| Time Period | PM Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.21 | --- | 0.36 | --- | 0.20 | --- | 0.20 | 0.35 | 0.35 | 0.29 | --- | 0.32 |
| Delay (sec) | 13.3 | --- | 14.0 | --- | 13.3 | --- | 8.3 | 6.5 | 6.5 | 6.1 | --- | 6.4 |
| LOS | B | --- | B | --- | B | --- | A | A | A | A | --- | A |
| Approach Delay (sec) | | 13.7 | | | 13.3 | | | 6.8 | | | 6.2 | |
| Approach LOS | | B | | | B | | | A | | | A | |
| Overall Delay (sec) | 7.8 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.21 | --- | 0.39 | --- | 0.21 | --- | 0.22 | 0.37 | 0.37 | 0.31 | --- | 0.34 |
| Delay (sec) | 13.3 | --- | 14.2 | --- | 13.3 | --- | 8.7 | 6.7 | 6.7 | 6.2 | --- | 6.6 |
| LOS | B | --- | B | --- | B | --- | A | A | A | A | --- | A |
| Approach Delay (sec) | | 13.8 | | | 13.3 | | | 7.0 | | | 6.4 | |
| Approach LOS | | B | | | B | | | A | | | A | |
| Overall Delay (sec) | 8.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.21 | --- | 0.39 | --- | 0.21 | --- | 0.22 | 0.37 | 0.37 | 0.31 | --- | 0.34 |
| Delay (sec) | 13.3 | --- | 14.2 | --- | 13.3 | --- | 8.8 | 6.7 | 6.7 | 6.3 | --- | 6.6 |
| LOS | B | --- | B | --- | B | --- | A | A | A | A | --- | A |
| Approach Delay (sec) | | 13.8 | | | 13.3 | | | 7.0 | | | 6.4 | |
| Approach LOS | | B | | | B | | | A | | | A | |
| Overall Delay (sec) | 8.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|-------------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.00 | --- | 0.00 | --- | 0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | --- | 0.00 |
| Delay (sec) | 0.0 | --- | 0.0 | --- | 0.0 | --- | 0.1 | 0.0 | 0.0 | 0.1 | --- | 0.0 |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | |
| Approach LOS | | --- | | | --- | | | --- | | | --- | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | North Site Entrance at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | PM Peak Hour | | | | | | | | | | | |

| Condition | | EXISTING | | | | | | | | | | | |
|----------------------|-----------|----------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.01 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 13.8 | --- | --- | --- | --- | 8.8 | --- | --- | --- | --- | --- | |
| LOS | --- | B | --- | --- | --- | --- | A | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | 13.8 | | | | | | | 13.8 | | | | |
| Approach LOS | | B | | | | | | | B | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD | | | | | | | | | | | |
|----------------------|-----------|----------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.01 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 14.4 | --- | --- | --- | --- | 9.0 | --- | --- | --- | --- | --- | |
| LOS | --- | B | --- | --- | --- | --- | A | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | 14.4 | | | | | | | 9.0 | | | | |
| Approach LOS | | B | | | | | | | A | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | BUILD | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 15.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| LOS | --- | C | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | 15.5 | | | | | | | --- | | | | |
| Approach LOS | | C | | | | | | | --- | | | | |
| Overall Delay (sec) | 0.4 | | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | | |

| Condition | | NO BUILD TO BUILD COMPARISON | | | | | | | | | | | |
|----------------------|-----------|------------------------------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|--|
| Direction | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | |
| Movement | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right | |
| V/C Ratio | --- | 0.10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Delay (sec) | --- | 1.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| LOS | --- | Impact | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Approach Delay (sec) | | 1.1 | | | | | | | --- | | | | |
| Approach LOS | | Impact | | | | | | | --- | | | | |
| Overall Delay (sec) | 0.4 | | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | | |

Note:
 Build condition on the northbound approach improves as the driveway will become exit only.

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| | | | | | | | | | | | | |
|--------------|---|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Wooleys Lane at Middle Neck Road | | | | | | | | | | | |
| Control Type | Traffic Signal | | | | | | | | | | | |
| Time Period | PM Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | 0.23 | --- | --- | 0.31 | --- | --- | 0.32 | --- |
| Delay (sec) | --- | --- | --- | --- | 22.1 | --- | --- | 3.5 | --- | --- | 3.6 | --- |
| LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | | | | 22.1 | | | 3.5 | | | 3.6 | |
| Approach LOS | | | | | C | | | A | | | A | |
| Overall Delay (sec) | 4.7 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | 0.19 | --- | --- | 0.35 | --- | --- | 0.36 | --- |
| Delay (sec) | --- | --- | --- | --- | 20.4 | --- | --- | 4.3 | --- | --- | 4.5 | --- |
| LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | | | | 20.4 | | | 4.3 | | | 4.5 | |
| Approach LOS | | | | | C | | | A | | | A | |
| Overall Delay (sec) | 5.4 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | 0.19 | --- | --- | 0.35 | --- | --- | 0.37 | --- |
| Delay (sec) | --- | --- | --- | --- | 20.4 | --- | --- | 4.3 | --- | --- | 4.5 | --- |
| LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | | | | 20.4 | | | 4.3 | | | 4.5 | |
| Approach LOS | | | | | C | | | A | | | A | |
| Overall Delay (sec) | 5.4 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | 0.00 | --- | --- | 0.00 | --- | --- | 0.01 | --- |
| Delay (sec) | --- | --- | --- | --- | 0.0 | --- | --- | 0.0 | --- | --- | 0.0 | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | | | | 0.0 | | | 0.0 | | | 0.0 | |
| Approach LOS | | | | | --- | | | --- | | | --- | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

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 Project No. M15-012

| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Millbrook Court at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | PM Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.01 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 14.4 | --- | --- | --- | --- | 8.8 | --- | --- | --- | --- | --- |
| LOS | --- | B | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 14.4 | | | | | | 8.8 | | | | |
| Approach LOS | | B | | | | | | A | | | | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.01 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 15.0 | --- | --- | --- | --- | 8.9 | --- | --- | --- | --- | --- |
| LOS | --- | B | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 15.0 | | | | | | 8.9 | | | | |
| Approach LOS | | B | | | | | | A | | | | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.01 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 14.4 | --- | --- | --- | --- | 9.0 | --- | --- | --- | --- | --- |
| LOS | --- | B | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 14.4 | | | | | | 9.0 | | | | |
| Approach LOS | | B | | | | | | A | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|-------------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | -0.01 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | -0.6 | --- | --- | --- | --- | 0.10 | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | -0.6 | | | | | | 0.1 | | | | |
| Approach LOS | | --- | | | | | | --- | | | | |
| Overall Delay (sec) | -0.1 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | South Site Access at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | PM Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | --- | --- | --- | --- | --- | 8.9 | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | --- | | | --- | | | 8.9 | | | --- | |
| Approach LOS | | --- | | | --- | | | A | | | --- | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | --- | --- | --- | --- | --- | 9.0 | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | --- | | | --- | | | 9.0 | | | --- | |
| Approach LOS | | --- | | | --- | | | A | | | --- | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | --- | --- | 0.05 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | --- | --- | --- | --- | --- | 9.5 | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | --- | | | --- | | | 9.5 | | | --- | |
| Approach LOS | | --- | | | --- | | | A | | | --- | |
| Overall Delay (sec) | 0.5 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|-------------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | --- | --- | 0.05 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | --- | --- | --- | --- | --- | 0.50 | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | --- | | | --- | | | 0.5 | | | --- | |
| Approach LOS | | --- | | | --- | | | --- | | | --- | |
| Overall Delay (sec) | 0.5 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

Note:
 Build condition: the driveway will become entrance only.

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Clover Drive at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | PM Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.05 | --- | --- | --- | --- | 0.03 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 14.5 | --- | --- | --- | --- | 9.1 | --- | --- | --- | --- | --- |
| LOS | --- | B | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 14.5 | | | | | | 9.1 | | | | |
| Approach LOS | | B | | | | | | A | | | | |
| Overall Delay (sec) | 0.4 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.04 | --- | --- | --- | --- | 0.03 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 13.6 | --- | --- | --- | --- | 9.3 | --- | --- | --- | --- | --- |
| LOS | --- | B | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 13.6 | | | | | | 9.3 | | | | |
| Approach LOS | | B | | | | | | A | | | | |
| Overall Delay (sec) | 0.4 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.04 | --- | --- | --- | --- | 0.03 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 13.7 | --- | --- | --- | --- | 9.3 | --- | --- | --- | --- | --- |
| LOS | --- | B | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 13.7 | | | | | | 9.3 | | | | |
| Approach LOS | | B | | | | | | A | | | | |
| Overall Delay (sec) | 0.4 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.00 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 0.1 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 0.1 | | | | | | 0.0 | | | | |
| Approach LOS | | --- | | | | | | --- | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

Note:
 No build condition includes the closure of a commercial driveway on Clover Drive to the west of Middle Neck Road.

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| | | | | | | | | | | | | |
|--------------|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Allenwood Road at Middle Neck Road | | | | | | | | | | | |
| Control Type | Traffic Signal | | | | | | | | | | | |
| Time Period | PM Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | 0.35 | --- | --- | 0.36 | --- | --- | 0.29 | --- |
| Delay (sec) | --- | --- | --- | --- | 21.6 | --- | --- | 3.4 | --- | --- | 3.1 | --- |
| LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | | | | 21.6 | | | 3.4 | | | 3.1 | |
| Approach LOS | | | | | C | | | A | | | A | |
| Overall Delay (sec) | 4.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.01 | --- | --- | 0.04 | --- | --- | 0.45 | --- | --- | 0.34 | --- |
| Delay (sec) | --- | 24.8 | --- | --- | 22.3 | --- | --- | 6.0 | --- | --- | 5.3 | --- |
| LOS | --- | C | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | 24.8 | | | 22.3 | | | 6.0 | | | 5.3 | |
| Approach LOS | | C | | | C | | | A | | | A | |
| Overall Delay (sec) | 6.5 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.01 | --- | --- | 0.03 | --- | --- | 0.46 | --- | --- | 0.35 | --- |
| Delay (sec) | --- | 24.9 | --- | --- | 22.4 | --- | --- | 6.0 | --- | --- | 5.3 | --- |
| LOS | --- | C | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | 24.9 | | | 22.4 | | | 6.0 | | | 5.3 | |
| Approach LOS | | C | | | C | | | A | | | A | |
| Overall Delay (sec) | 6.5 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.00 | --- | --- | -0.01 | --- | --- | 0.01 | --- | --- | 0.01 | --- |
| Delay (sec) | --- | 0.1 | --- | --- | 0.1 | --- | --- | 0.0 | --- | --- | 0.0 | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 0.1 | | | 0.1 | | | 0.0 | | | 0.0 | |
| Approach LOS | | --- | | | --- | | | --- | | | --- | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

Note:
 No build condition changes compared to existing condition due to the addition of an eastbound approach controlled by the traffic signal.

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Old Mill Road at Middle Neck Road | | | | | | | | | | | |
| Control Type | Traffic Signal | | | | | | | | | | | |
| Time Period | Saturday Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.09 | --- | 0.16 | --- | 0.04 | --- | 0.12 | 0.25 | 0.26 | 0.27 | --- | 0.30 |
| Delay (sec) | 10.2 | --- | 10.5 | --- | 9.9 | --- | 12.5 | 10.4 | 10.5 | 10.6 | --- | 11.0 |
| LOS | B | --- | B | --- | A | --- | B | B | B | B | --- | B |
| Approach Delay (sec) | | 10.4 | | | 9.9 | | | 10.7 | | | 10.8 | |
| Approach LOS | | B | | | A | | | B | | | B | |
| Overall Delay (sec) | 10.7 | | | | | | | | | | | |
| Overall LOS | B | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.09 | --- | 0.17 | --- | 0.04 | --- | 0.13 | 0.27 | 0.27 | 0.29 | --- | 0.32 |
| Delay (sec) | 10.2 | --- | 10.6 | --- | 9.9 | --- | 12.8 | 10.6 | 10.6 | 10.8 | --- | 11.2 |
| LOS | B | --- | B | --- | A | --- | B | B | B | B | --- | B |
| Approach Delay (sec) | | 10.4 | | | 9.9 | | | 10.9 | | | 11.0 | |
| Approach LOS | | B | | | A | | | B | | | B | |
| Overall Delay (sec) | 10.8 | | | | | | | | | | | |
| Overall LOS | B | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.09 | --- | 0.18 | --- | 0.04 | --- | 0.13 | 0.27 | 0.27 | 0.29 | --- | 0.33 |
| Delay (sec) | 10.2 | --- | 10.6 | --- | 9.9 | --- | 13.0 | 10.6 | 10.7 | 10.8 | --- | 11.3 |
| LOS | B | --- | B | --- | A | --- | B | B | B | B | --- | B |
| Approach Delay (sec) | | 10.4 | | | 9.9 | | | 10.9 | | | 11.1 | |
| Approach LOS | | B | | | A | | | B | | | B | |
| Overall Delay (sec) | 10.9 | | | | | | | | | | | |
| Overall LOS | B | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|-------------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.00 | --- | 0.01 | --- | 0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | --- | 0.01 |
| Delay (sec) | 0.0 | --- | 0.0 | --- | 0.0 | --- | 0.2 | 0.0 | 0.1 | 0.0 | --- | 0.1 |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.1 | |
| Approach LOS | | --- | | | --- | | | --- | | | --- | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | North Site Entrance at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | Saturday Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.02 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 17.2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 17.2 | | | | | | | | | | |
| Approach LOS | | C | | | | | | | | | | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.03 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 17.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 17.5 | | | | | | | | | | |
| Approach LOS | | C | | | | | | | | | | |
| Overall Delay (sec) | 0.1 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 25.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LOS | --- | D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 25.4 | | | | | | | | | | |
| Approach LOS | | D | | | | | | | | | | |
| Overall Delay (sec) | 1.2 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 7.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LOS | --- | Impact | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 7.9 | | | | | | | | | | |
| Approach LOS | | Impact | | | | | | | | | | |
| Overall Delay (sec) | 1.1 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

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| | | | | | | | | | | | | |
|--------------|---|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Wooleys Lane at Middle Neck Road | | | | | | | | | | | |
| Control Type | Traffic Signal | | | | | | | | | | | |
| Time Period | Saturday Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | 0.26 | --- | --- | 0.17 | --- | --- | 0.23 | --- |
| Delay (sec) | --- | --- | --- | --- | 25.0 | --- | --- | 2.3 | --- | --- | 2.5 | --- |
| LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | | | | 25.0 | | | 2.3 | | | 2.5 | |
| Approach LOS | | | | | C | | | A | | | A | |
| Overall Delay (sec) | 3.7 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | 0.27 | --- | --- | 0.18 | --- | --- | 0.24 | --- |
| Delay (sec) | --- | --- | --- | --- | 24.9 | --- | --- | 2.4 | --- | --- | 2.6 | --- |
| LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | | | | 24.9 | | | 2.4 | | | 2.6 | |
| Approach LOS | | | | | C | | | A | | | A | |
| Overall Delay (sec) | 3.7 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | 0.27 | --- | --- | 0.18 | --- | --- | 0.25 | --- |
| Delay (sec) | --- | --- | --- | --- | 24.9 | --- | --- | 2.4 | --- | --- | 2.6 | --- |
| LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | | | | 24.9 | | | 2.4 | | | 2.6 | |
| Approach LOS | | | | | C | | | A | | | A | |
| Overall Delay (sec) | 3.7 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|-------------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | 0.00 | --- | --- | 0.00 | --- | --- | 0.01 | --- |
| Delay (sec) | --- | --- | --- | --- | 0.0 | --- | --- | 0.0 | --- | --- | 0.0 | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | | | | 0.0 | | | 0.0 | | | 0.0 | |
| Approach LOS | | | | | --- | | | --- | | | --- | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Millbrook Court at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | Saturday Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 21.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 21.8 | | | | | | | | | | |
| Approach LOS | | C | | | | | | | | | | |
| Overall Delay (sec) | 0.3 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.06 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 22.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 22.9 | | | | | | | | | | |
| Approach LOS | | C | | | | | | | | | | |
| Overall Delay (sec) | 0.3 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.03 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 22.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 22.8 | | | | | | | | | | |
| Approach LOS | | C | | | | | | | | | | |
| Overall Delay (sec) | 0.2 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|-------------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | -0.02 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Delay (sec) | --- | -0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | -0.1 | | | | | | | | | | |
| Approach LOS | | --- | | | | | | | | | | |
| Overall Delay (sec) | -0.1 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | South Site Access at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | Saturday Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.01 | --- | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | 22.4 | --- | --- | --- | --- | --- | 9.9 | --- | --- | --- | --- | --- |
| LOS | C | --- | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 22.4 | | | | | | 9.9 | | | | |
| Approach LOS | | C | | | | | | A | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | 0.01 | --- | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | 23.3 | --- | --- | --- | --- | --- | 10.0 | --- | --- | --- | --- | --- |
| LOS | C | --- | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 23.3 | | | | | | 10.0 | | | | |
| Approach LOS | | C | | | | | | A | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | --- | --- | --- | --- | --- | 10.2 | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | B | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | --- | | | | | | 10.2 | | | | |
| Approach LOS | | --- | | | | | | B | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | --- | --- | --- | --- | --- | 0.20 | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | --- | | | | | | 0.2 | | | | |
| Approach LOS | | --- | | | | | | --- | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

Note:
 Build condition: the driveway will become entrance only.

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| | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Clover Drive at Middle Neck Road | | | | | | | | | | | |
| Control Type | Stop Signs posted on Side Street Approaches | | | | | | | | | | | |
| Time Period | Saturday Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.19 | --- | --- | --- | --- | 0.01 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 22.3 | --- | --- | --- | --- | 9.8 | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 22.3 | | | | | | 9.8 | | | | |
| Approach LOS | | C | | | | | | A | | | | |
| Overall Delay (sec) | 1.2 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.17 | --- | --- | --- | --- | 0.01 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 22.3 | --- | --- | --- | --- | 9.9 | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 22.3 | | | | | | 9.9 | | | | |
| Approach LOS | | C | | | | | | A | | | | |
| Overall Delay (sec) | 1.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.17 | --- | --- | --- | --- | 0.01 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 22.5 | --- | --- | --- | --- | 9.9 | --- | --- | --- | --- | --- |
| LOS | --- | C | --- | --- | --- | --- | A | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 22.5 | | | | | | 9.9 | | | | |
| Approach LOS | | C | | | | | | A | | | | |
| Overall Delay (sec) | 1.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.00 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| Delay (sec) | --- | 0.2 | --- | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 0.2 | | | | | | 0.0 | | | | |
| Approach LOS | | --- | | | | | | --- | | | | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

Note:
 No build condition includes the closure of a commercial driveway on Clover Drive to the west of Middle Neck Road.

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| | | | | | | | | | | | | |
|--------------|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Intersection | Allenwood Road at Middle Neck Road | | | | | | | | | | | |
| Control Type | Traffic Signal | | | | | | | | | | | |
| Time Period | Saturday Peak Hour | | | | | | | | | | | |

| EXISTING | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | --- | --- | --- | 0.58 | --- | --- | 0.19 | --- | --- | 0.23 | --- |
| Delay (sec) | --- | --- | --- | --- | 34.5 | --- | --- | 2.2 | --- | --- | 2.3 | --- |
| LOS | --- | --- | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | --- | | | 34.5 | | | 2.2 | | | 2.3 | |
| Approach LOS | | --- | | | C | | | A | | | A | |
| Overall Delay (sec) | 3.6 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.01 | --- | --- | 0.03 | --- | --- | 0.25 | --- | --- | 0.28 | --- |
| Delay (sec) | --- | 24.9 | --- | --- | 24.1 | --- | --- | 4.1 | --- | --- | 4.2 | --- |
| LOS | --- | C | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | 24.9 | | | 24.1 | | | 4.1 | | | 4.2 | |
| Approach LOS | | C | | | C | | | A | | | A | |
| Overall Delay (sec) | 5.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| BUILD | | | | | | | | | | | | |
|----------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.01 | --- | --- | 0.03 | --- | --- | 0.25 | --- | --- | 0.28 | --- |
| Delay (sec) | --- | 24.9 | --- | --- | 24.1 | --- | --- | 4.1 | --- | --- | 4.2 | --- |
| LOS | --- | C | --- | --- | C | --- | --- | A | --- | --- | A | --- |
| Approach Delay (sec) | | 24.9 | | | 24.1 | | | 4.1 | | | 4.2 | |
| Approach LOS | | C | | | C | | | A | | | A | |
| Overall Delay (sec) | 5.0 | | | | | | | | | | | |
| Overall LOS | A | | | | | | | | | | | |

| NO BUILD TO BUILD COMPARISON | | | | | | | | | | | | |
|------------------------------|-----------|---------|-------|-----------|---------|-------|------------|---------|-------|------------|---------|-------|
| Condition | Eastbound | | | Westbound | | | Northbound | | | Southbound | | |
| Direction | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |
| Movement | | | | | | | | | | | | |
| V/C Ratio | --- | 0.00 | --- | --- | 0.00 | --- | --- | 0.00 | --- | --- | 0.00 | --- |
| Delay (sec) | --- | 0.0 | --- | --- | 0.0 | --- | --- | 0.0 | --- | --- | 0.0 | --- |
| LOS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Approach Delay (sec) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | |
| Approach LOS | | --- | | | --- | | | --- | | | --- | |
| Overall Delay (sec) | 0.0 | | | | | | | | | | | |
| Overall LOS | --- | | | | | | | | | | | |

Note:
 No build condition changes compared to existing condition due to the addition of an eastbound approach controlled by the traffic signal.

POTENTIAL LEVEL OF SERVICE IMPACTS BUILD CONDITIONS

01. Middle Neck Road and Old Mill Road/Piccadilly Road _____ No Impact
02. Middle Neck Road and the North Site Access _____ Potential Impact
03. Middle Neck Road and Wooleys Lane _____ No Impact
04. Middle Neck Road and the Millbrook Court _____ No Impact
05. Middle Neck Road and the South Site Access _____ No Impact
06. Middle Neck Road and Clover Drive _____ No Impact
07. Middle Neck Road and Allenwood Road _____ No Impact

FINDINGS

The highway capacity analysis of the study intersections shows that the development of this property will have no perceptible impact to the level of service on the surrounding roadway network, with the exception of the North Site Access.

MITIGATION

As part of the redevelopment of this project the North Site Access will become the main exit for the complex. The southbound stop line on Middle Neck Road, at the intersection with Wooleys Lane, is located approximately 65 feet south of the driveway. Approximately six vehicles can queue at the signal (within the two southbound lanes) before blocking the site driveway. It is recommended that “Do Not Block The Box” pavement markings and signage be installed at this location. Similar pavement markings were previously installed on Middle Neck Road at the intersection of Cedar Drive, in the Village of Great Neck Estates.

Middle Neck Road generally consists of 2 northbound and 2 southbound travel lanes with parking or shoulder area on the east and west sides. The cross section from curb to curb is approximately 60 feet. The through lanes are approximately 11 feet wide and the parking areas are approximately 8 feet wide.

Some areas of Middle Neck Road (north of Old Mill Road) also provide a raised median island, running along the center.

Middle Neck Road, within the Village of Great Neck, provides northbound left turn lanes at two intersections (Redbrook Road/Grassfield Road and Old Mill Road).

Parking is provided on the west side of Middle Neck Road south of Redbrook Road/Grassfield Road. The lack of parking on the east side of Middle Neck Road in this area allows for the northbound left turn storage lane.

No parking is permitted on either side of Middle Neck Road south of Old Mill Road. The lack of parking within this area of Middle Neck Road allows for the northbound left turn storage lane.

At other intersections on Middle Neck Road, throughout the Village of Great Neck, no turning lanes are provided. Vehicles turning left must wait in the through lane potentially blocking through traffic.

As part of the redevelopment of this project the South Site Access will become the main entrance for the complex. This driveway is anticipated to operate in a similar fashion to the other unsignalized intersections located on Middle Neck Road in proximity to the subject site.

The introduction of a northbound left turn lane at the South Site Access would require the elimination of numerous on street parking spaces. The analysis indicates that less than one vehicle every two minutes will enter the site via a northbound left turn during peak demand. The highway capacity analysis indicates that mitigation is not required at this location.

CONCLUSIONS

In summary, the subject property is currently developed with a 119 apartment units and 134 parking spaces. The overall project site is 4.35 acres (189,480 square feet).

The proposed project will improve the site with a total of 186 unit apartment and 314 parking spaces. The proposed project will result in a net increase of 67 new apartment units.

In accordance with the Village of Great Neck zoning requirements, the proposed development requires 314 parking spaces. The proposed site design meets the requirements of the code.

Twenty-two of the 314 on-site parking spaces provided will be in tandem with another parking space. Tandem parking is subject to the review and approval of the Board of Trustees.

The proposed site will maintain the existing site driveways. The site has one driveway to the north, one in the center of the property and one to the south. The central driveway is known as Millbrook Court.

The north and south driveways will be reconfigured. The south driveway will allow entrance only traffic flow from Middle Neck Road. The north driveway will permit exit only traffic flow onto Middle Neck Road. The center driveway/Millbrook Court will maintain two way traffic flow.

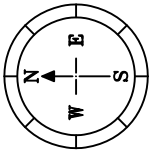
The site access design and parking configuration is illustrated on the site plan set prepared by Newman Design Architects, PLLC. The site access design is subject to the review and approval of the Village of Great Neck Estates and the Nassau County Department of Public Works.

It is recommended that “Do Not Block The Box” pavement markings and signage be installed at the North Site Access. No mitigation measures were found to be warranted at the surrounding study intersections. The Highway Capacity Analysis shows that the traffic generated by the proposed development will have no perceptible impact on the level of service at the surrounding study intersections. Based on our traffic engineering analysis contained within, the proposed development will have no adverse impact to the surrounding roadway network.

TECHNICAL APPENDIX

SECTION NO. 01 FIGURES
SECTION NO. 02 INTERSECTION TURNING MOVEMENT COUNTS
SECTION NO. 03 TABLES
SECTION NO. 04 INTERSECTION CAPACITY ANALYSIS

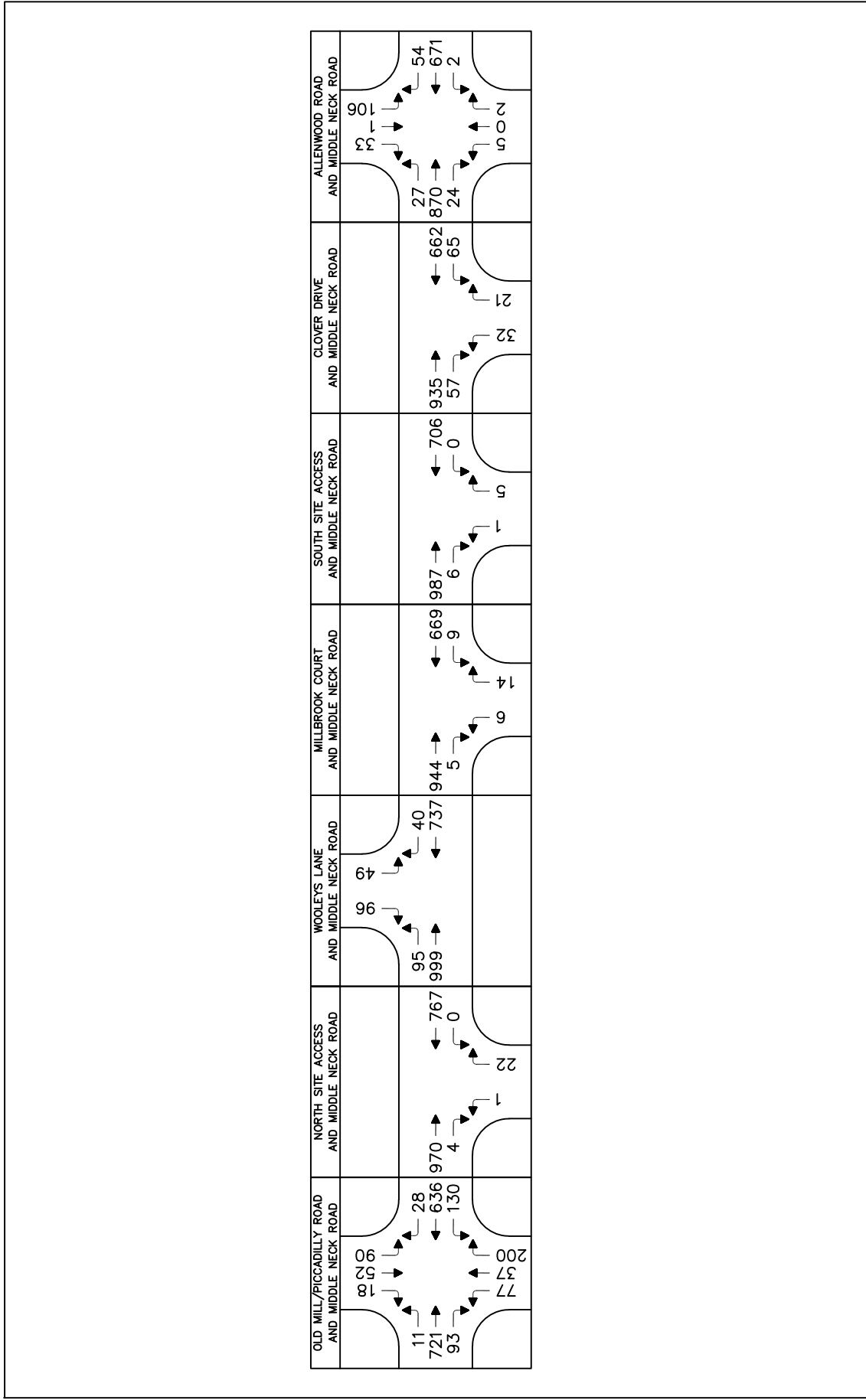
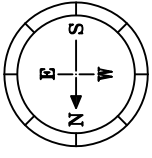
SECTION NO. 01 FIGURES





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ENGINEERING, P.C.

FIGURE No. 2
PROJECT No. M15-012
VILLAGE OF GREAT NECK
MORNING PEAK HOUR
EXISTING

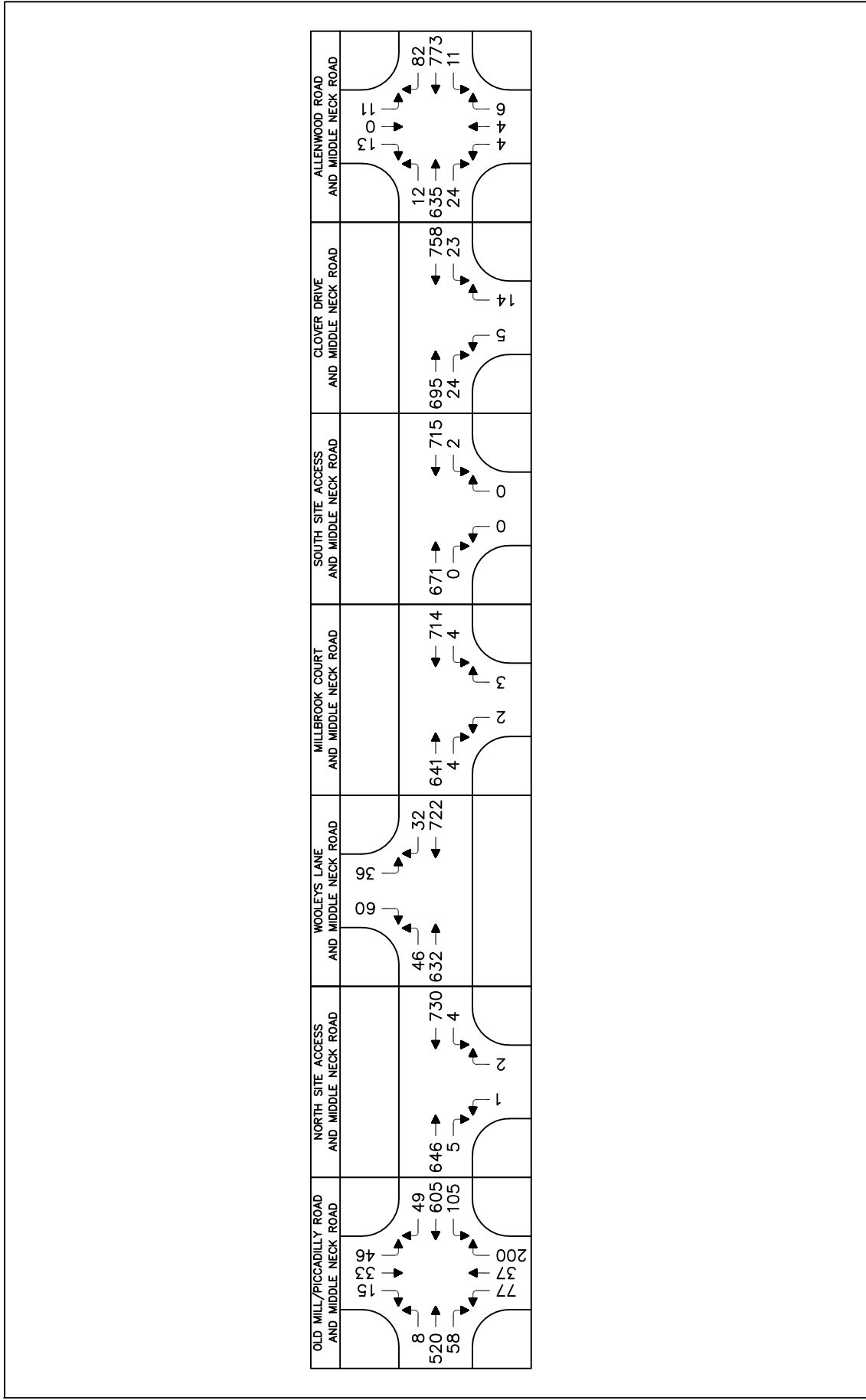
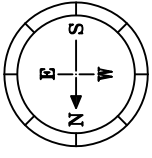


EXISTING VOLUMES SHOWN REFLECT: 1. THE PASSENGER CAR EQUIVALENT VALUES FOR TRUCKS AND BUSES AND 2. ADJUSTED FLOW RATE



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ENGINEERING, P.C.

FIGURE No. 3
PROJECT No. M15-012
VILLAGE OF GREAT NECK
EVENING PEAK HOUR
EXISTING

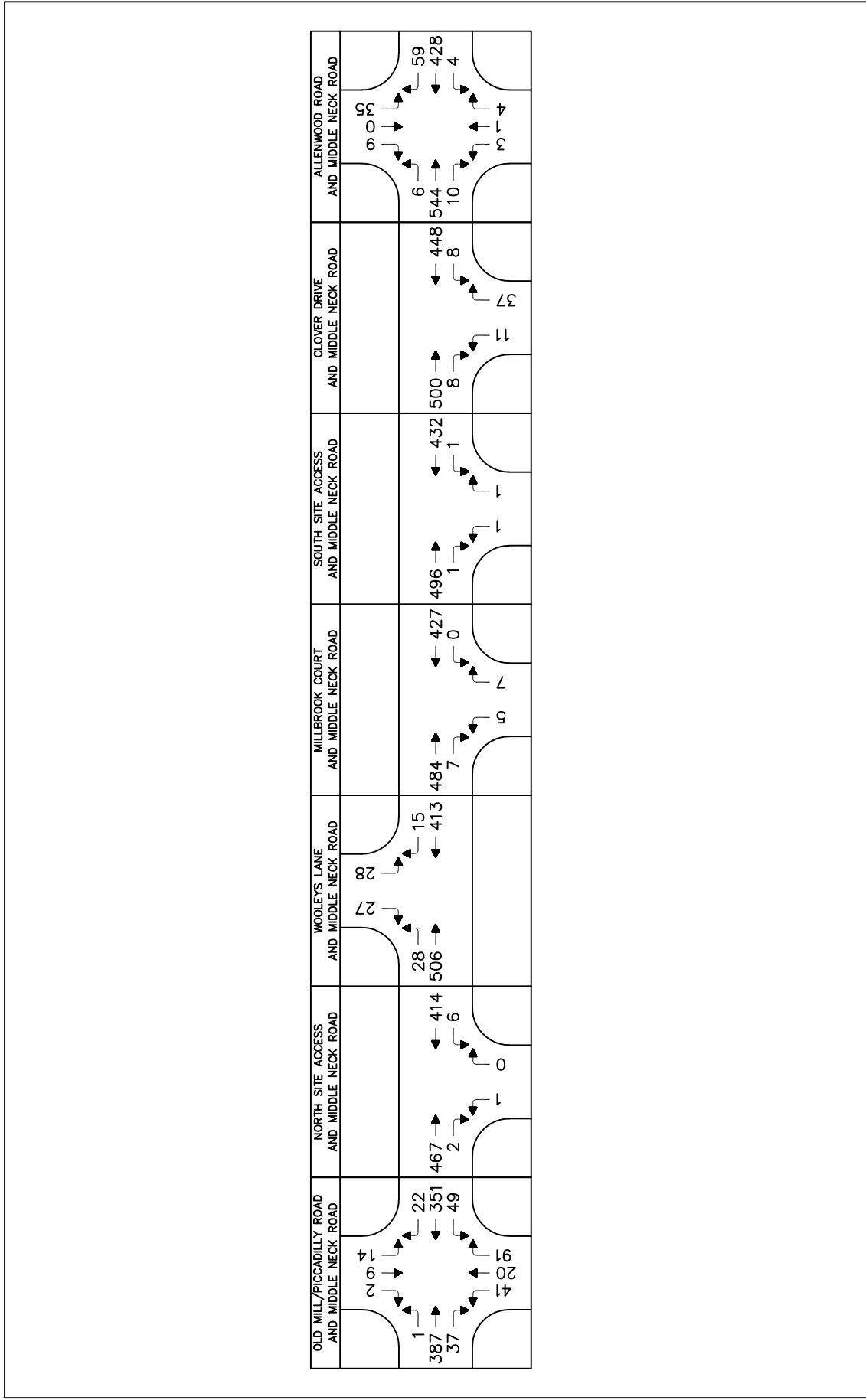
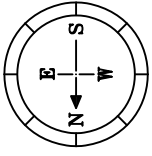


EXISTING VOLUMES SHOWN REFLECT: 1. THE PASSENGER CAR EQUIVALENT VALUES FOR TRUCKS AND BUSES AND 2. ADJUSTED FLOW RATE



MULRYAN
ENGINEERING, P.C.

FIGURE No. 4
PROJECT No. M15-012
VILLAGE OF GREAT NECK
SATURDAY PEAK HOUR
EXISTING

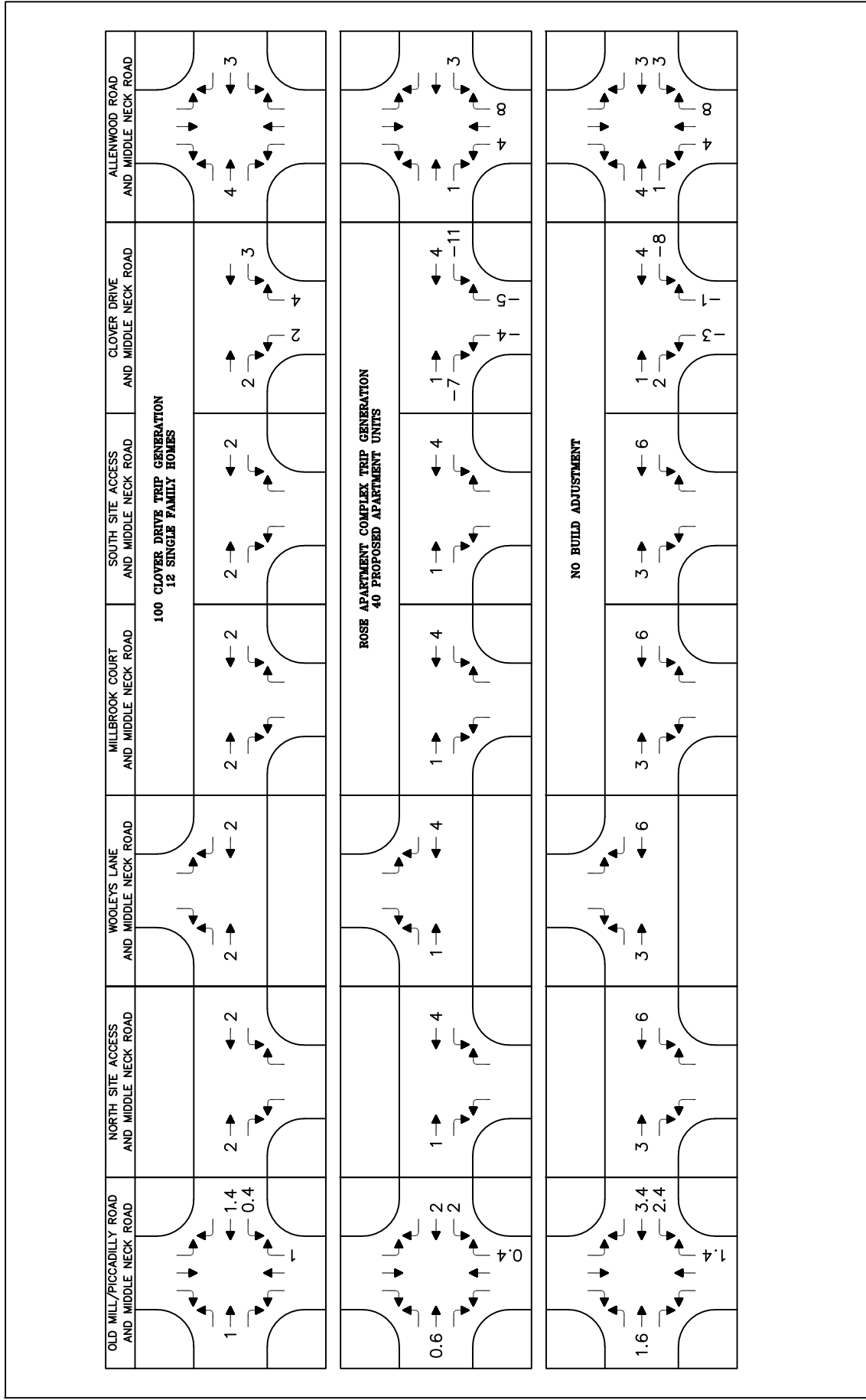
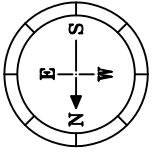


EXISTING VOLUMES SHOWN REFLECT: 1. THE PASSENGER CAR EQUIVALENT VALUES FOR TRUCKS AND BUSES AND 2. ADJUSTED FLOW RATE



**MULRYAN
ENGINEERING, P.C.**

FIGURE No. 5
PROJECT No. M15-012
VILLAGE OF GREAT NECK
MORNING PEAK HOUR
TRIP GENERATION - OTHER PLANNED PROJECTS

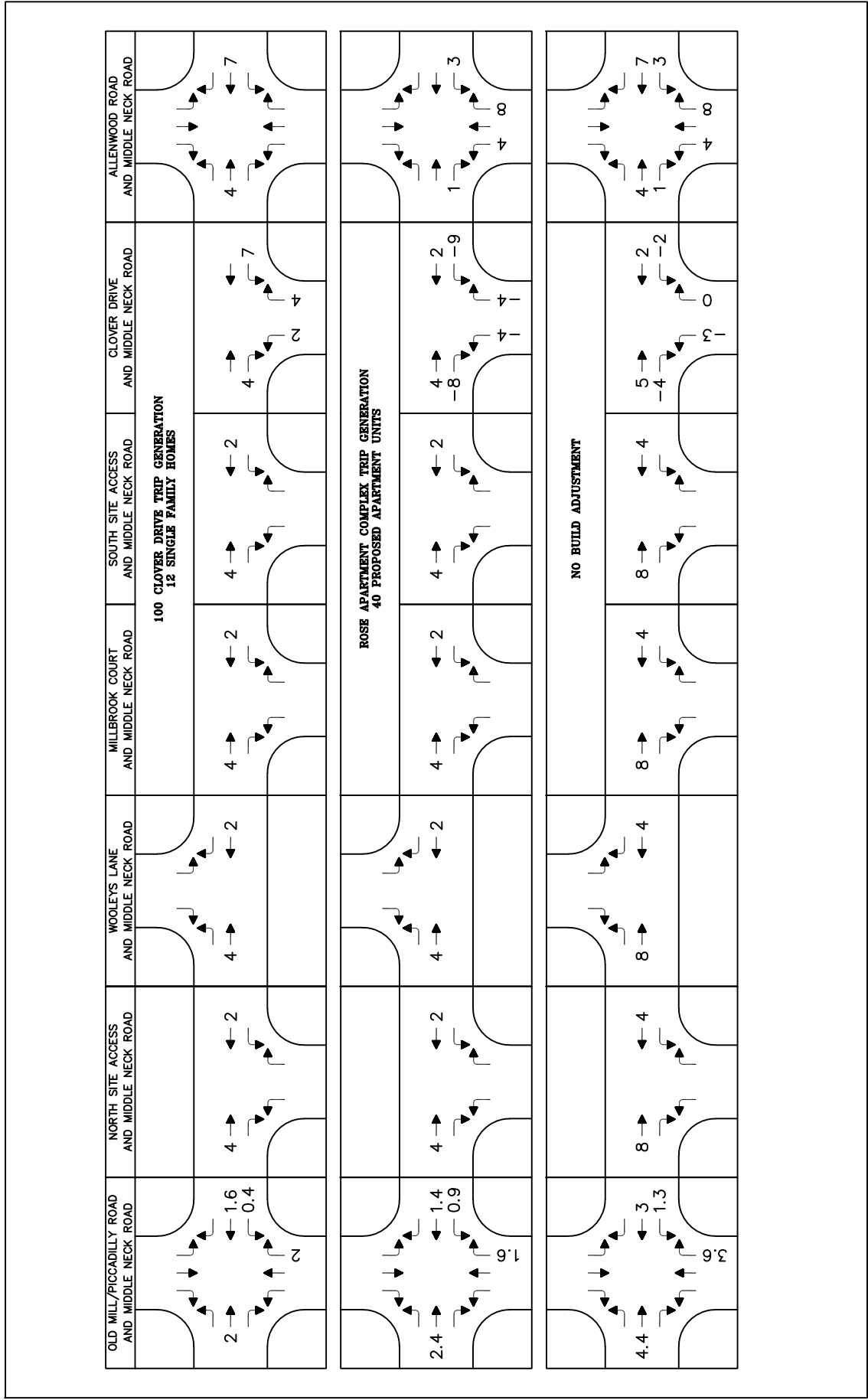
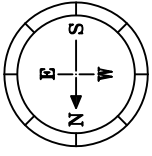


NEGATIVE NUMBERS REFLECT DRIVEWAY CLOSURE ON CLOVER DRIVE. DECIMAL VALUES SHOWN TO ACCOUNT FOR ROUNDING.



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FIGURE No. 6
PROJECT No. M15-012
VILLAGE OF GREAT NECK
EVENING PEAK HOUR
TRIP GENERATION - OTHER PLANNED PROJECTS

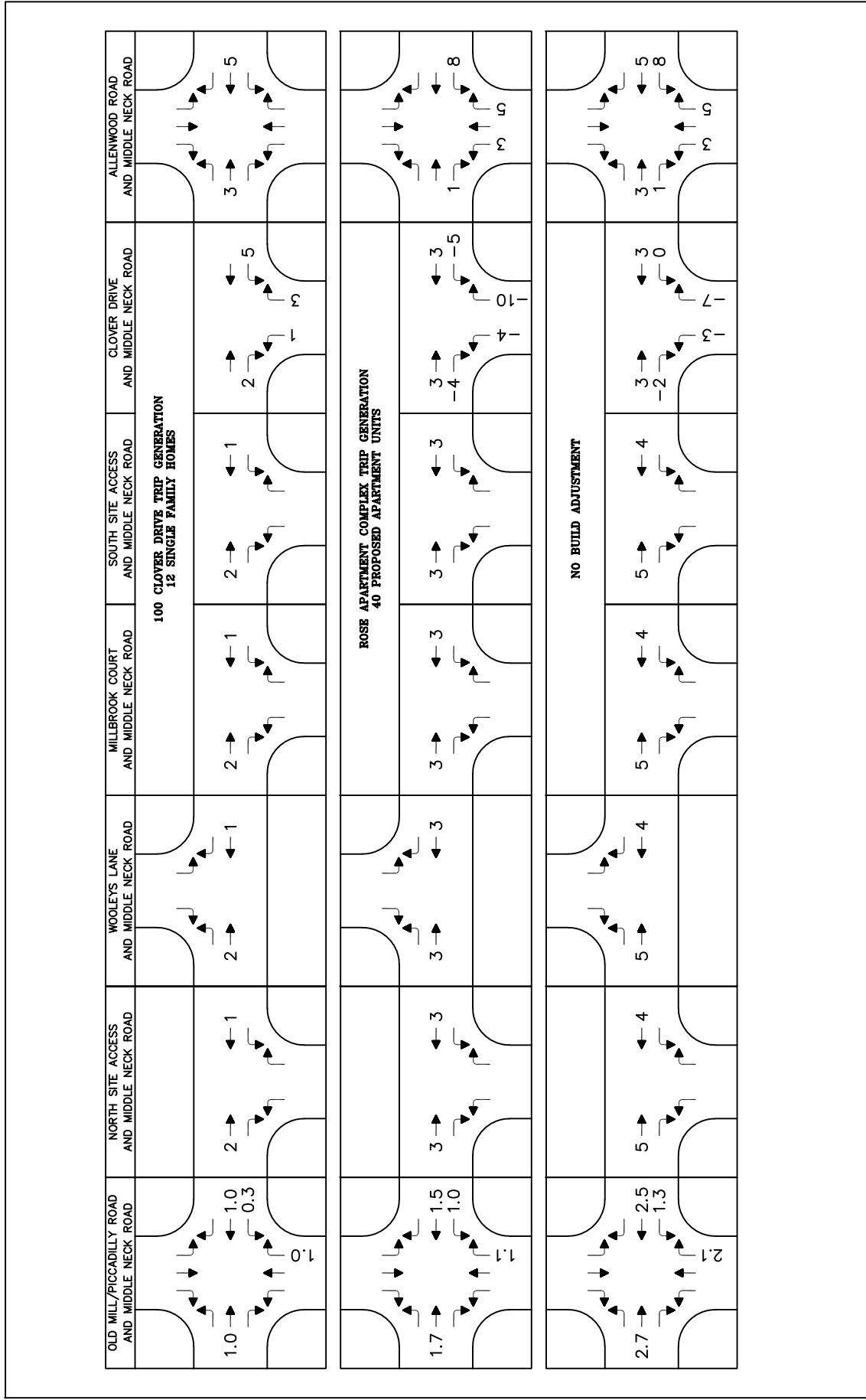
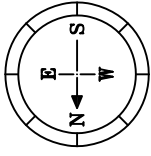


NEGATIVE NUMBERS REFLECT DRIVEWAY CLOSURE ON CLOVER DRIVE. DECIMAL VALUES SHOWN TO ACCOUNT FOR ROUNDING.



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FIGURE No. 7
PROJECT No. M15-012
VILLAGE OF GREAT NECK
SATURDAY PEAK HOUR
TRIP GENERATION - OTHER PLANNED PROJECTS

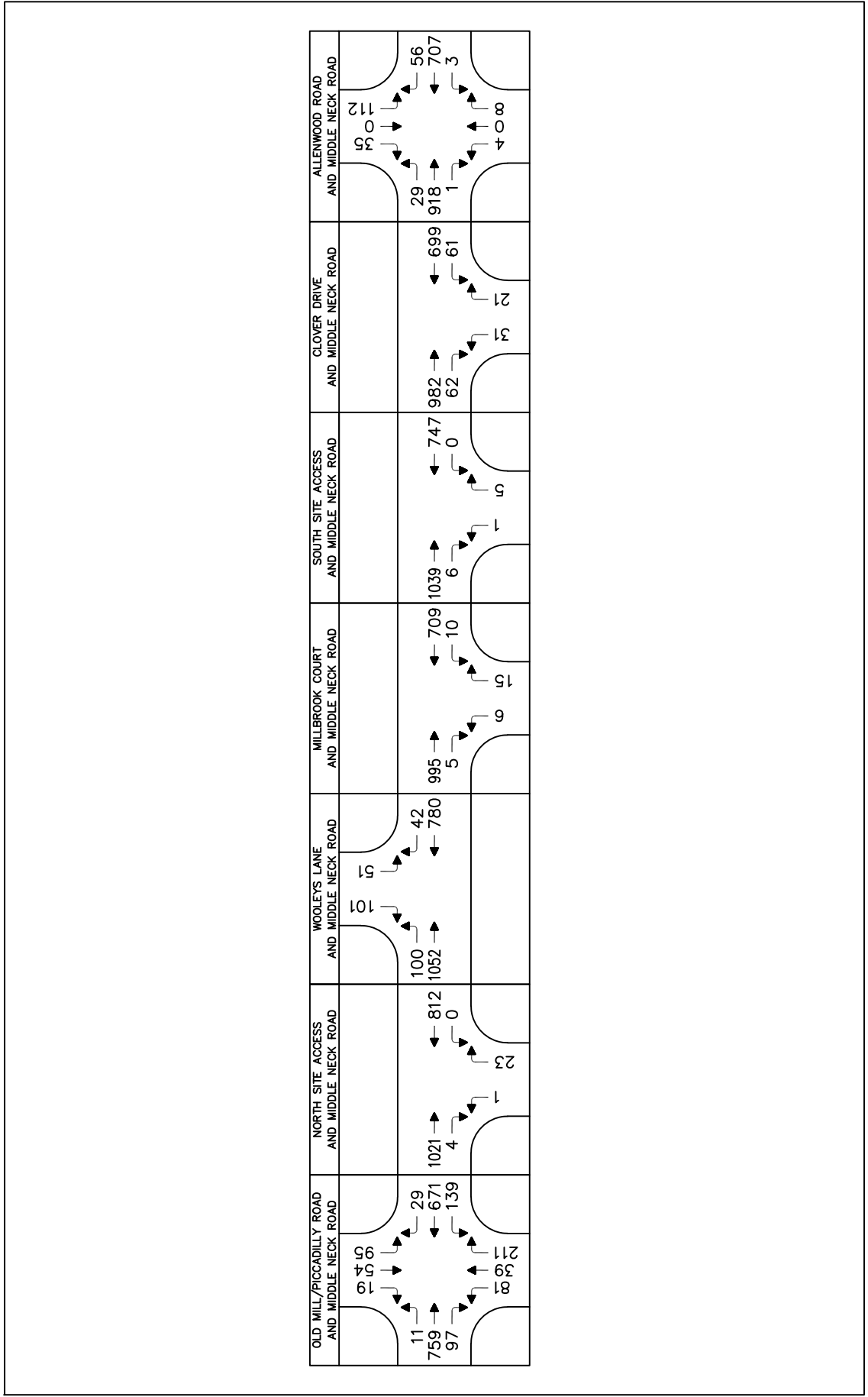
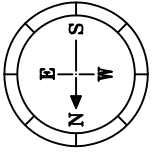


NEGATIVE NUMBERS REFLECT DRIVEWAY CLOSURE ON CLOVER DRIVE. DECIMAL VALUES SHOWN TO ACCOUNT FOR ROUNDING.



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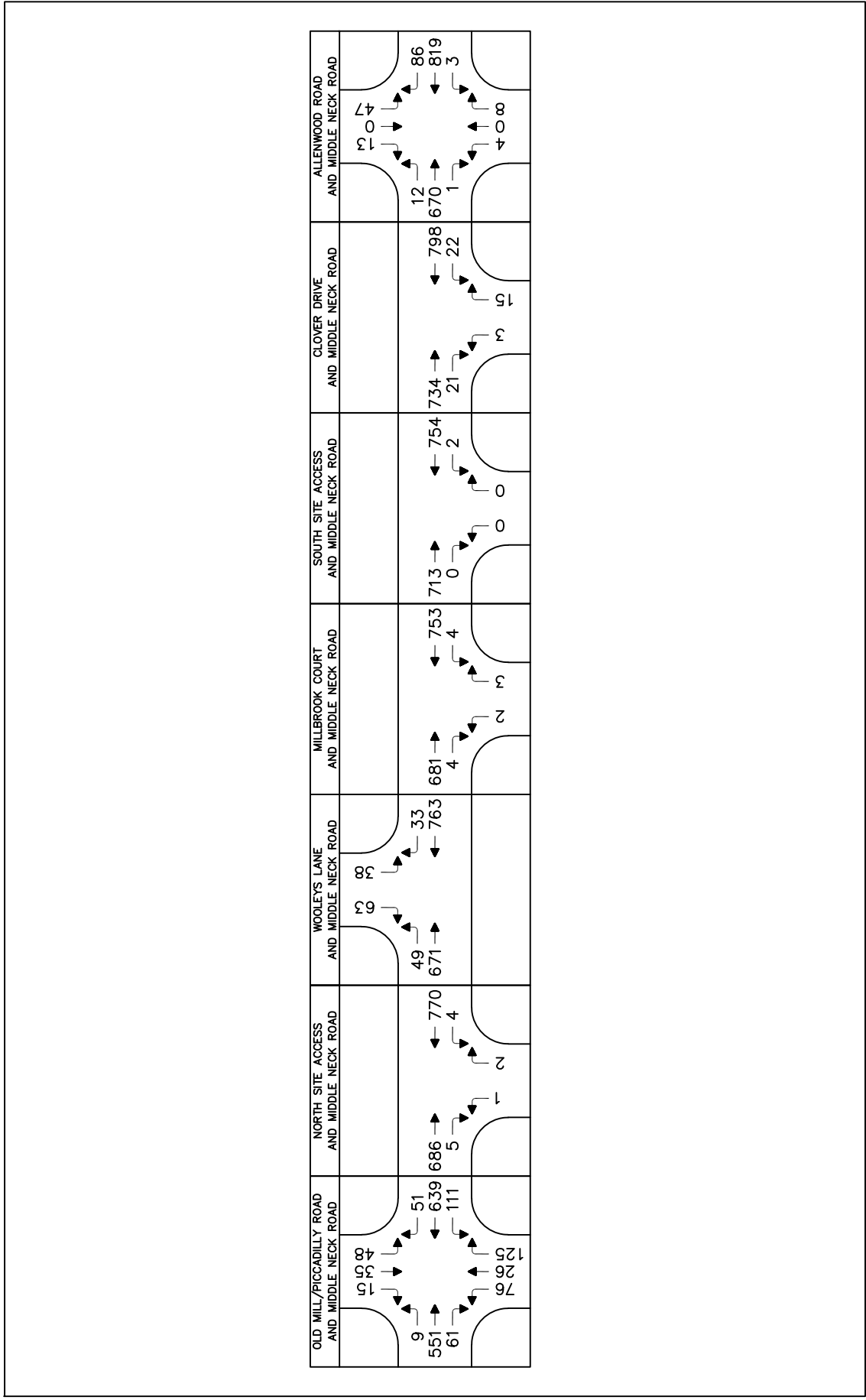
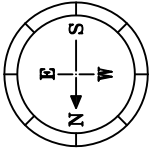
FIGURE No. 8
PROJECT No. M15-012
VILLAGE OF GREAT NECK
MORNING PEAK HOUR
NO BUILD





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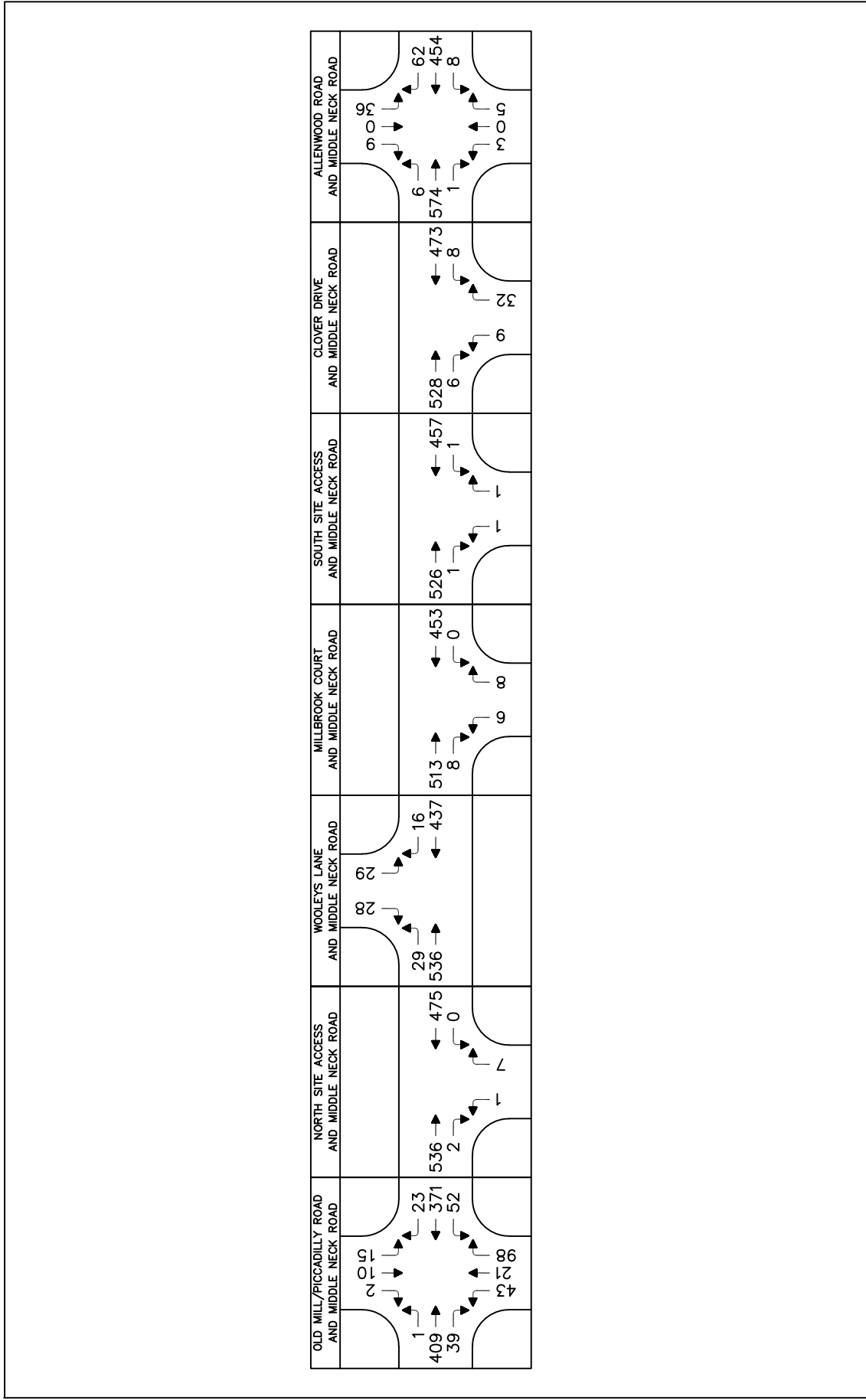
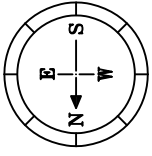
FIGURE No. 9
PROJECT No. M15-012
VILLAGE OF GREAT NECK
EVENING PEAK HOUR
NO BUILD





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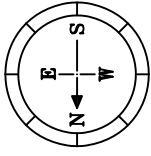
FIGURE No. 10
PROJECT No. M15-012
VILLAGE OF GREAT NECK
SATURDAY PEAK HOUR
NO BUILD



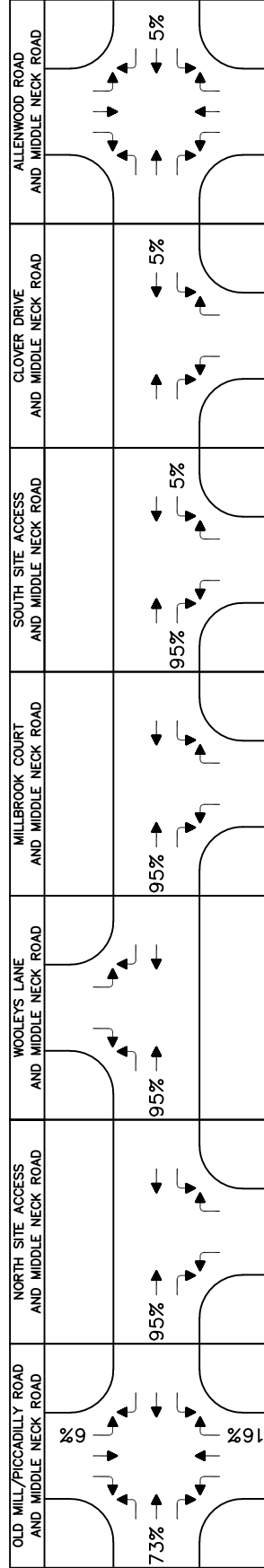


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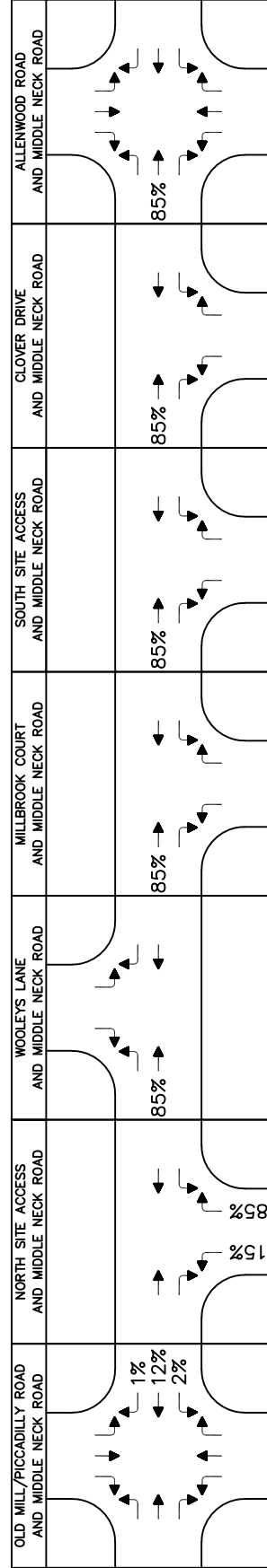
FIGURE No. 11
PROJECT No. M15-012
VILLAGE OF GREAT NECK
MORNING PEAK HOUR
SITE GENERATED TRAFFIC DISTRIBUTION



ENTERING TRAFFIC



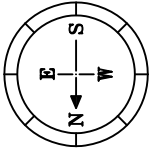
EXITING TRAFFIC



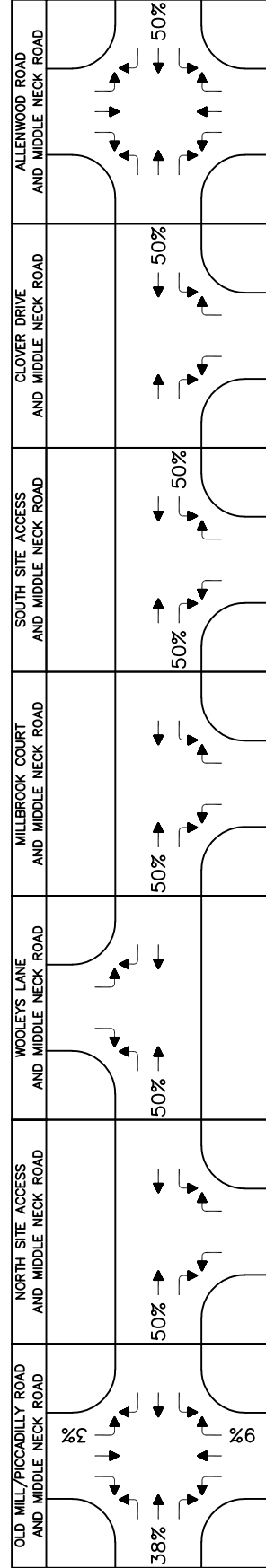


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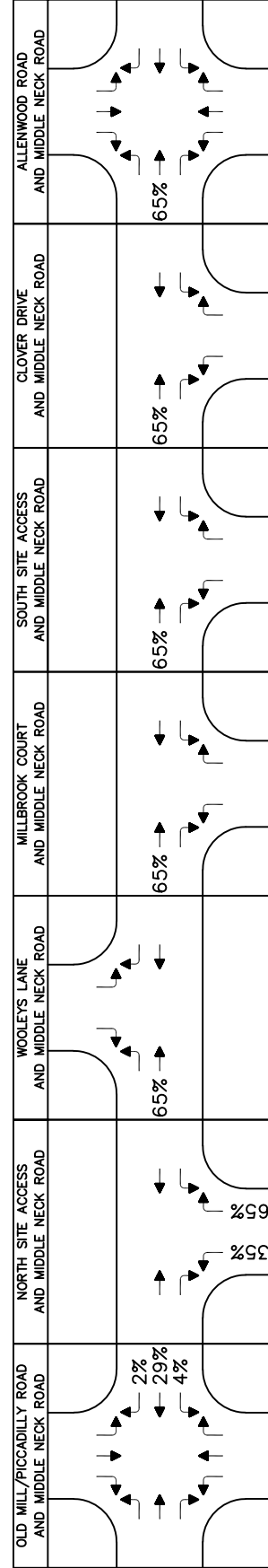
FIGURE No. 12
PROJECT No. M15-012
VILLAGE OF GREAT NECK
EVENING PEAK HOUR
SITE GENERATED TRAFFIC DISTRIBUTION



ENTERING TRAFFIC



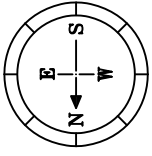
EXITING TRAFFIC



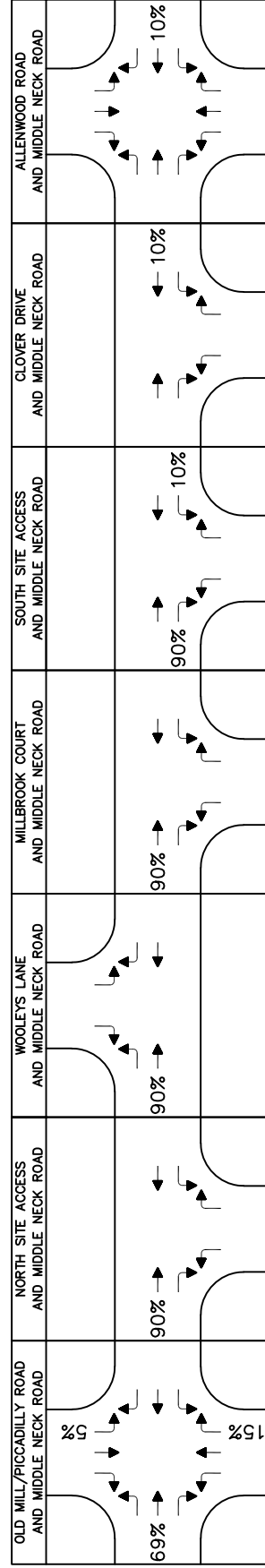


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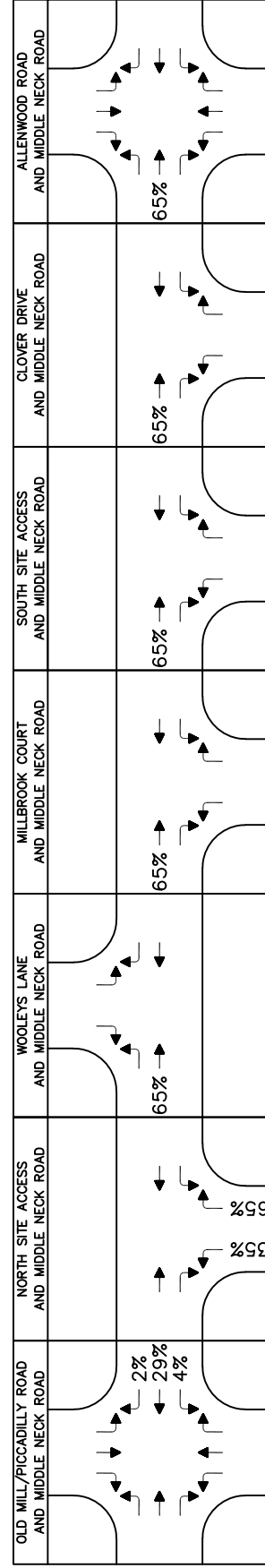
FIGURE No. 13
PROJECT No. M15-012
VILLAGE OF GREAT NECK
SATURDAY PEAK HOUR
SITE GENERATED TRAFFIC DISTRIBUTION



ENTERING TRAFFIC



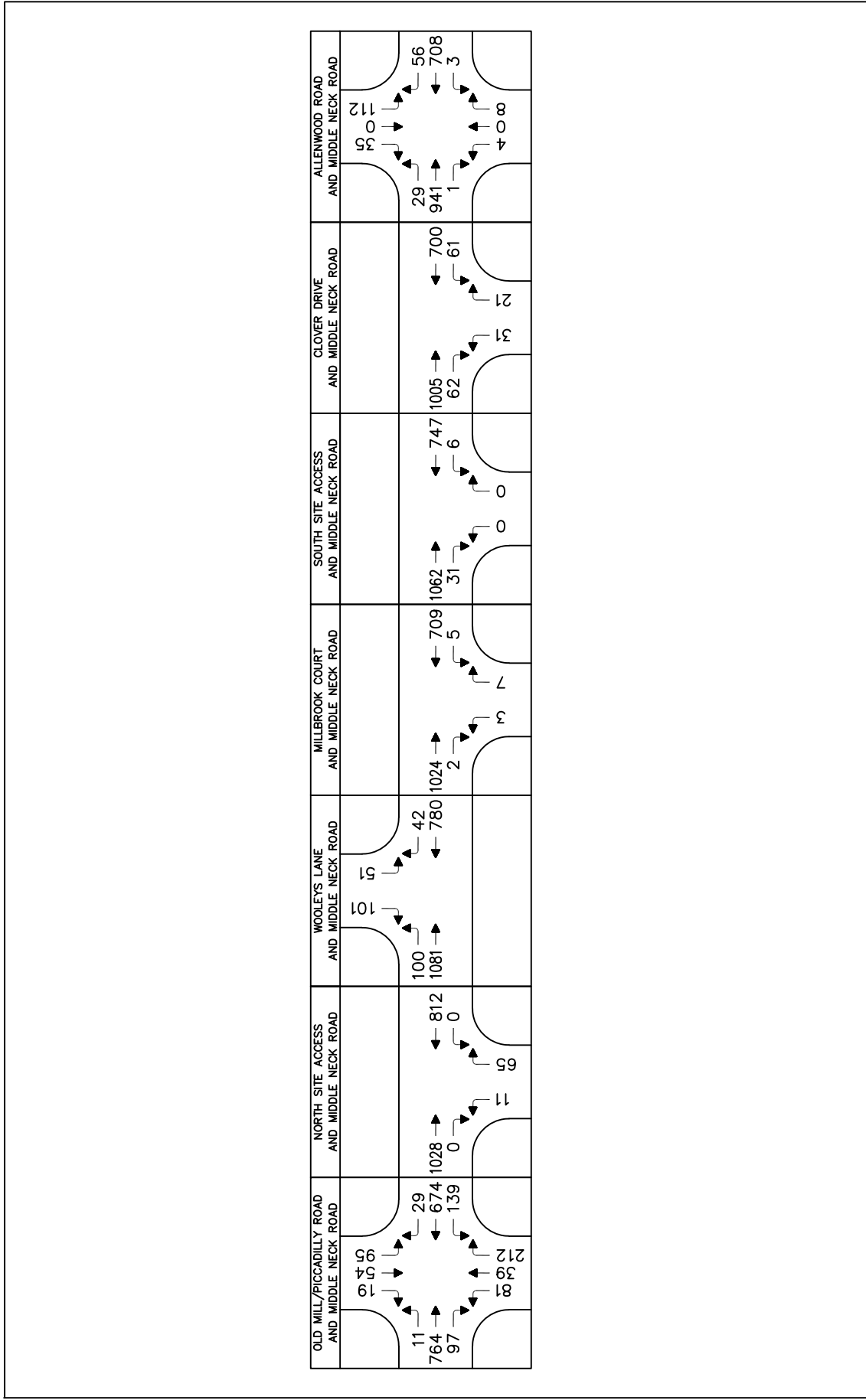
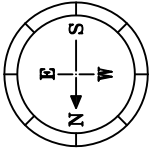
EXITING TRAFFIC





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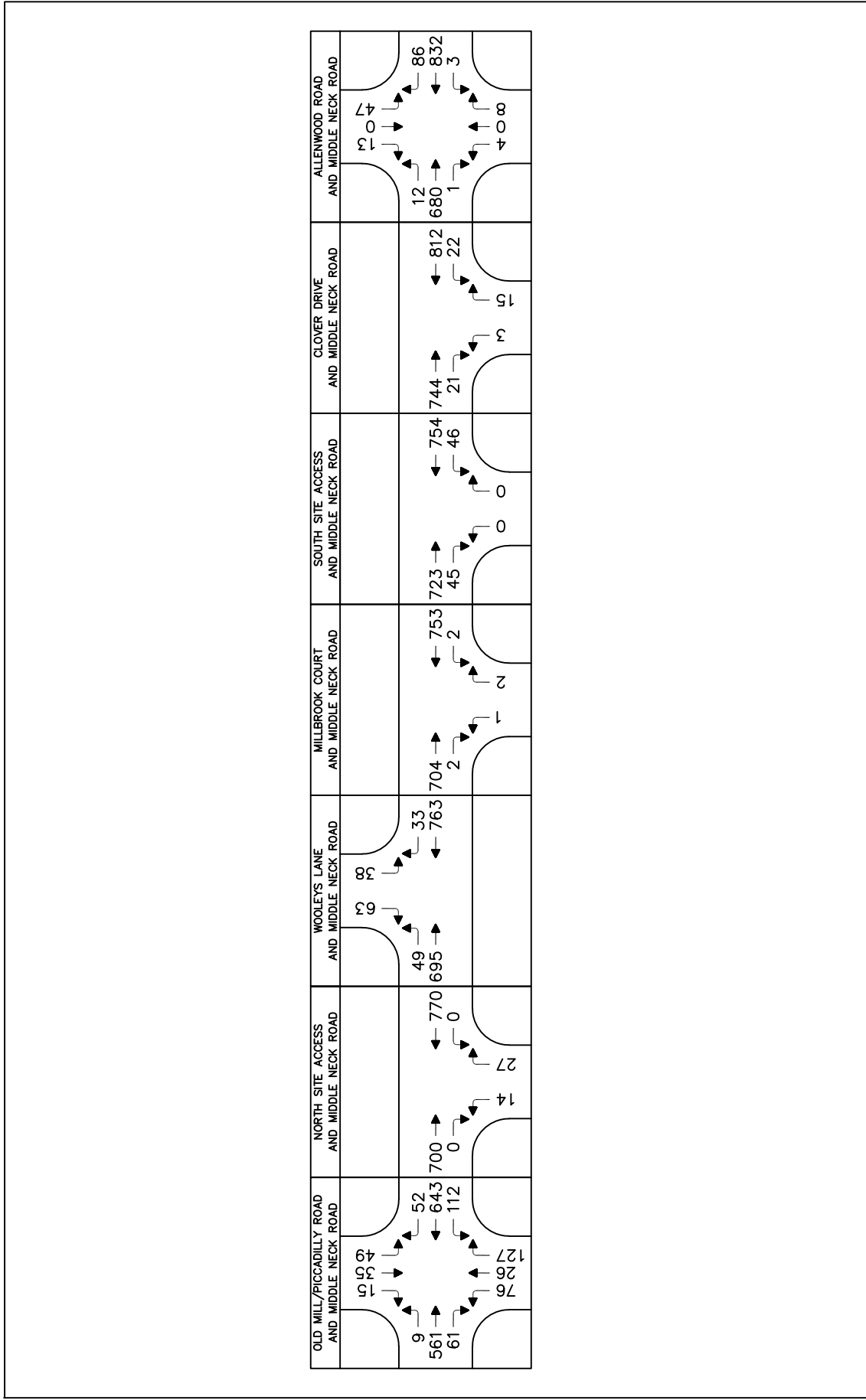
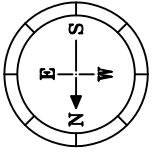
FIGURE No. 14
PROJECT No. M15-012
VILLAGE OF GREAT NECK
MORNING PEAK HOUR
BUILD





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FIGURE No. 15
PROJECT No. M15-012
VILLAGE OF GREAT NECK
EVENING PEAK HOUR
BUILD



SECTION NO. 02INTERSECTION TURNING MOVEMENT COUNTS

Mulryan Engineering, P.C. **Study Intersection No. 1**

Hamlet: Village of Great Neck
 Project No. M15-012

| Old Mill/Piccadilly Road at Middle Neck Road | | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Vehicle Total | |
|--|---------------------|-------------------|------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|---------------|------|
| | | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | | |
| AM Turning Movement Counts | 7:00 AM | | 0 | 3 | 71 | 2 | 0 | 1 | 8 | 12 | 0 | 11 | 79 | 15 | 0 | 18 | 5 | 2 | 227 | |
| | 7:15 AM | | 0 | 7 | 82 | 0 | 0 | 1 | 7 | 25 | 0 | 6 | 76 | 9 | 0 | 19 | 2 | 8 | 242 | |
| | 7:30 AM | | 0 | 19 | 130 | 1 | 0 | 5 | 10 | 14 | 0 | 5 | 125 | 30 | 0 | 40 | 5 | 8 | 392 | |
| | 7:45 AM | | 0 | 22 | 150 | 2 | 0 | 5 | 14 | 21 | 0 | 2 | 182 | 37 | 0 | 58 | 8 | 22 | 523 | |
| | 8:00 AM | | 0 | 22 | 196 | 3 | 0 | 3 | 13 | 24 | 0 | 6 | 114 | 19 | 0 | 44 | 10 | 21 | 475 | |
| | 8:15 AM | | 0 | 14 | 123 | 3 | 0 | 2 | 6 | 16 | 0 | 10 | 107 | 22 | 0 | 24 | 8 | 13 | 348 | |
| | 8:30 AM | | 0 | 16 | 138 | 2 | 0 | 3 | 9 | 23 | 0 | 13 | 114 | 22 | 0 | 32 | 9 | 11 | 392 | |
| | 8:45 AM | | 0 | 12 | 155 | 1 | 0 | 3 | 12 | 23 | 0 | 16 | 106 | 33 | 0 | 30 | 11 | 15 | 417 | |
| | 7:00 AM to 8:00 AM | | 0 | 51 | 433 | 5 | 0 | 12 | 39 | 72 | 0 | 24 | 462 | 91 | 0 | 135 | 20 | 40 | 1384 | |
| | 7:15 AM to 8:15 AM | | 0 | 70 | 558 | 6 | 0 | 14 | 44 | 84 | 0 | 19 | 497 | 95 | 0 | 161 | 25 | 59 | 1632 | |
| 7:30 AM to 8:30 AM | | 0 | 77 | 599 | 9 | 0 | 15 | 43 | 75 | 0 | 23 | 528 | 108 | 0 | 166 | 31 | 64 | 1738 | | |
| 7:45 AM to 8:45 AM | | 0 | 74 | 607 | 10 | 0 | 13 | 42 | 84 | 0 | 31 | 517 | 100 | 0 | 158 | 35 | 67 | 1738 | | |
| 8:00 AM to 9:00 AM | | 0 | 64 | 612 | 9 | 0 | 11 | 40 | 86 | 0 | 45 | 441 | 96 | 0 | 130 | 38 | 60 | 1632 | | |
| Midday Turning Movement Counts | 12:00 PM | | 0 | 9 | 110 | 3 | 0 | 3 | 3 | 4 | 0 | 12 | 113 | 15 | 0 | 29 | 1 | 15 | 317 | |
| | 12:15 PM | | 0 | 12 | 118 | 1 | 0 | 1 | 3 | 11 | 0 | 2 | 116 | 17 | 0 | 19 | 2 | 13 | 315 | |
| | 12:30 PM | | 0 | 13 | 117 | 0 | 0 | 2 | 4 | 6 | 0 | 9 | 103 | 17 | 0 | 20 | 4 | 27 | 322 | |
| | 12:45 PM | | 0 | 17 | 118 | 1 | 0 | 1 | 11 | 6 | 0 | 5 | 118 | 16 | 0 | 19 | 1 | 19 | 332 | |
| | 1:00 PM | | 0 | 14 | 126 | 3 | 0 | 1 | 4 | 10 | 0 | 8 | 134 | 16 | 0 | 27 | 3 | 18 | 364 | |
| | 1:15 PM | | 0 | 15 | 119 | 2 | 0 | 2 | 8 | 5 | 0 | 10 | 128 | 15 | 0 | 24 | 4 | 21 | 353 | |
| | 1:30 PM | | 0 | 7 | 129 | 1 | 0 | 2 | 1 | 4 | 0 | 9 | 143 | 10 | 0 | 18 | 2 | 12 | 338 | |
| | 1:45 PM | | 0 | 21 | 113 | 6 | 0 | 3 | 2 | 7 | 0 | 3 | 139 | 20 | 0 | 15 | 3 | 21 | 353 | |
| | 12:00 PM to 1:00 PM | | 0 | 51 | 463 | 5 | 0 | 7 | 21 | 27 | 0 | 28 | 450 | 65 | 0 | 87 | 8 | 74 | 1286 | |
| | 12:15 PM to 1:15 PM | | 0 | 56 | 479 | 5 | 0 | 5 | 22 | 33 | 0 | 24 | 471 | 66 | 0 | 85 | 10 | 77 | 1333 | |
| 12:30 PM to 1:30 PM | | 0 | 59 | 480 | 6 | 0 | 6 | 27 | 27 | 0 | 32 | 483 | 64 | 0 | 90 | 12 | 85 | 1371 | | |
| 12:45 PM to 1:45 PM | | 0 | 53 | 492 | 7 | 0 | 6 | 24 | 25 | 0 | 32 | 523 | 57 | 0 | 88 | 10 | 70 | 1387 | | |
| 1:00 PM to 2:00 PM | | 0 | 57 | 487 | 12 | 0 | 8 | 15 | 26 | 0 | 30 | 544 | 61 | 0 | 84 | 12 | 72 | 1408 | | |
| PM Turning Movement Counts | 4:00 PM | | 0 | 18 | 123 | 4 | 0 | 5 | 6 | 18 | 0 | 20 | 143 | 27 | 0 | 28 | 11 | 13 | 416 | |
| | 4:15 PM | | 0 | 15 | 126 | 4 | 0 | 2 | 5 | 10 | 0 | 9 | 121 | 19 | 0 | 26 | 6 | 23 | 366 | |
| | 4:30 PM | | 0 | 18 | 122 | 4 | 0 | 1 | 6 | 13 | 0 | 10 | 125 | 27 | 0 | 41 | 8 | 25 | 400 | |
| | 4:45 PM | | 0 | 11 | 120 | 3 | 0 | 4 | 6 | 12 | 0 | 11 | 150 | 16 | 0 | 21 | 3 | 15 | 372 | |
| | 5:00 PM | | 0 | 14 | 123 | 3 | 0 | 4 | 4 | 11 | 0 | 10 | 148 | 15 | 0 | 26 | 4 | 21 | 383 | |
| | 5:15 PM | | 0 | 17 | 137 | 1 | 0 | 5 | 10 | 8 | 0 | 15 | 143 | 28 | 0 | 19 | 6 | 17 | 406 | |
| | 5:30 PM | | 0 | 15 | 122 | 1 | 0 | 4 | 9 | 12 | 0 | 9 | 130 | 26 | 0 | 36 | 8 | 17 | 389 | |
| | 5:45 PM | | 0 | 10 | 119 | 3 | 0 | 1 | 9 | 13 | 0 | 13 | 162 | 32 | 0 | 30 | 6 | 15 | 413 | |
| | 4:00 PM to 5:00 PM | | 0 | 62 | 491 | 15 | 0 | 12 | 23 | 53 | 0 | 50 | 539 | 89 | 0 | 116 | 28 | 76 | 1554 | |
| | 4:15 PM to 5:15 PM | | 0 | 58 | 491 | 14 | 0 | 11 | 21 | 46 | 0 | 40 | 544 | 77 | 0 | 114 | 21 | 84 | 1521 | |
| 4:30 PM to 5:30 PM | | 0 | 60 | 502 | 11 | 0 | 14 | 26 | 44 | 0 | 46 | 566 | 86 | 0 | 107 | 21 | 78 | 1561 | | |
| 4:45 PM to 5:45 PM | | 0 | 57 | 502 | 8 | 0 | 17 | 29 | 43 | 0 | 45 | 571 | 85 | 0 | 102 | 21 | 70 | 1550 | | |
| 5:00 PM to 6:00 PM | | 0 | 56 | 501 | 8 | 0 | 14 | 32 | 44 | 0 | 47 | 583 | 101 | 0 | 111 | 24 | 70 | 1591 | | |
| Saturday Turning Movement Counts | 12:00 PM | | 0 | 7 | 99 | 1 | 0 | 2 | 4 | 7 | 0 | 7 | 102 | 7 | 0 | 11 | 1 | 6 | 254 | |
| | 12:15 PM | | 0 | 8 | 84 | 3 | 0 | 1 | 1 | 4 | 0 | 6 | 73 | 7 | 0 | 17 | 3 | 8 | 215 | |
| | 12:30 PM | | 0 | 7 | 101 | 1 | 0 | 0 | 1 | 3 | 0 | 9 | 82 | 9 | 0 | 22 | 6 | 7 | 248 | |
| | 12:45 PM | | 0 | 12 | 95 | 0 | 0 | 0 | 2 | 3 | 0 | 8 | 89 | 9 | 0 | 22 | 4 | 11 | 255 | |
| | 1:00 PM | | 0 | 14 | 96 | 0 | 0 | 2 | 2 | 4 | 0 | 1 | 88 | 13 | 0 | 22 | 4 | 10 | 256 | |
| | 1:15 PM | | 0 | 3 | 82 | 0 | 0 | 0 | 4 | 4 | 0 | 3 | 80 | 16 | 0 | 22 | 5 | 12 | 231 | |
| | 1:30 PM | | 0 | 7 | 78 | 1 | 0 | 0 | 4 | 4 | 0 | 4 | 76 | 9 | 0 | 16 | 7 | 6 | 212 | |
| | 1:45 PM | | 0 | 11 | 86 | 1 | 0 | 2 | 0 | 8 | 0 | 5 | 73 | 13 | 0 | 26 | 1 | 11 | 237 | |
| | 12:00 PM to 1:00 PM | | 0 | 34 | 379 | 5 | 0 | 3 | 8 | 17 | 0 | 30 | 346 | 32 | 0 | 72 | 14 | 32 | 972 | |
| | 12:15 PM to 1:15 PM | | 0 | 41 | 376 | 4 | 0 | 3 | 6 | 14 | 0 | 24 | 332 | 38 | 0 | 83 | 17 | 36 | 974 | |
| 12:30 PM to 1:30 PM | | 0 | 36 | 374 | 1 | 0 | 2 | 9 | 14 | 0 | 21 | 339 | 47 | 0 | 88 | 19 | 40 | 990 | | |
| 12:45 PM to 1:45 PM | | 0 | 36 | 351 | 1 | 0 | 2 | 12 | 15 | 0 | 16 | 333 | 47 | 0 | 82 | 20 | 39 | 954 | | |
| 1:00 PM to 2:00 PM | | 0 | 35 | 342 | 2 | 0 | 4 | 10 | 20 | 0 | 13 | 317 | 51 | 0 | 86 | 17 | 39 | 936 | | |
| Peak Hour | PHF | Start Time | | | | | | | | | | | | | | | | | | |
| | AM | 0.831 | 7:30 AM | 0 | 77 | 599 | 9 | 0 | 15 | 43 | 75 | 0 | 23 | 528 | 108 | 0 | 166 | 31 | 64 | 1738 |
| | Midday | 0.967 | 1:00 PM | 0 | 57 | 487 | 12 | 0 | 8 | 15 | 26 | 0 | 30 | 544 | 61 | 0 | 84 | 12 | 72 | 1408 |
| | PM | 0.963 | 5:00 PM | 0 | 56 | 501 | 8 | 0 | 14 | 32 | 44 | 0 | 47 | 583 | 101 | 0 | 111 | 24 | 70 | 1591 |
| Saturday | 0.967 | 12:30 PM | 0 | 36 | 374 | 1 | 0 | 2 | 9 | 14 | 0 | 21 | 339 | 47 | 0 | 88 | 19 | 40 | 990 | |

| Hamlet: Village of Great Neck | | | Project No. M15-012 | | | | | | | | | | | | | | | | |
|---|---------------------|-------------------|---------------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|---------------|
| North Site Access at Middle Neck Road | | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Vehicle Total |
| | | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| AM Turning Movement Counts | 7:00 AM | | 0 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 86 | 0 | 0 | 1 | 0 | 0 | 180 |
| | 7:15 AM | | 0 | 1 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 1 | 0 | 1 | 0 | 1 | 193 |
| | 7:30 AM | | 0 | 1 | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 157 | 0 | 0 | 5 | 0 | 0 | 328 |
| | 7:45 AM | | 0 | 2 | 223 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 209 | 0 | 0 | 7 | 0 | 0 | 441 |
| | 8:00 AM | | 0 | 0 | 257 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 0 | 0 | 4 | 0 | 1 | 389 |
| | 8:15 AM | | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 136 | 0 | 0 | 2 | 0 | 0 | 288 |
| | 8:30 AM | | 0 | 1 | 182 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 | 3 | 0 | 2 | 0 | 0 | 320 |
| | 8:45 AM | | 0 | 3 | 192 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 153 | 1 | 0 | 4 | 0 | 1 | 354 |
| | 7:00 AM to 8:00 AM | | 0 | 4 | 586 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 536 | 1 | 0 | 14 | 0 | 1 | 1142 |
| | 7:15 AM to 8:15 AM | | 0 | 4 | 750 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 577 | 1 | 0 | 17 | 0 | 2 | 1351 |
| 7:30 AM to 8:30 AM | | 0 | 3 | 795 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 629 | 0 | 0 | 18 | 0 | 1 | 1446 | |
| 7:45 AM to 8:45 AM | | 0 | 3 | 812 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 604 | 3 | 0 | 15 | 0 | 1 | 1438 | |
| 8:00 AM to 9:00 AM | | 0 | 4 | 781 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 548 | 4 | 0 | 12 | 0 | 2 | 1351 | |
| Midday Turning Movement Counts | 12:00 PM | | 0 | 0 | 137 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 129 | 1 | 0 | 0 | 0 | 0 | 267 |
| | 12:15 PM | | 0 | 3 | 139 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 | 1 | 0 | 1 | 0 | 0 | 276 |
| | 12:30 PM | | 0 | 0 | 137 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 | 1 | 0 | 0 | 0 | 1 | 258 |
| | 12:45 PM | | 0 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 | 1 | 0 | 2 | 0 | 1 | 293 |
| | 1:00 PM | | 0 | 1 | 149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 142 | 0 | 0 | 3 | 0 | 0 | 295 |
| | 1:15 PM | | 0 | 0 | 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 148 | 1 | 0 | 0 | 0 | 0 | 294 |
| | 1:30 PM | | 0 | 0 | 144 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160 | 0 | 0 | 3 | 0 | 0 | 307 |
| | 1:45 PM | | 0 | 2 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 154 | 0 | 0 | 0 | 0 | 1 | 290 |
| | 12:00 PM to 1:00 PM | | 0 | 3 | 555 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 527 | 4 | 0 | 3 | 0 | 2 | 1094 |
| | 12:15 PM to 1:15 PM | | 0 | 4 | 567 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 540 | 3 | 0 | 6 | 0 | 2 | 1122 |
| 12:30 PM to 1:30 PM | | 0 | 1 | 573 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 556 | 3 | 0 | 5 | 0 | 2 | 1140 | |
| 12:45 PM to 1:45 PM | | 0 | 1 | 580 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 597 | 2 | 0 | 8 | 0 | 1 | 1189 | |
| 1:00 PM to 2:00 PM | | 0 | 3 | 571 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 604 | 1 | 0 | 6 | 0 | 1 | 1186 | |
| PM Turning Movement Counts | 4:00 PM | | 0 | 3 | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 172 | 3 | 0 | 1 | 0 | 0 | 335 |
| | 4:15 PM | | 0 | 2 | 149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 143 | 2 | 0 | 3 | 0 | 0 | 299 |
| | 4:30 PM | | 0 | 3 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 1 | 0 | 0 | 309 |
| | 4:45 PM | | 0 | 1 | 146 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 186 | 1 | 0 | 3 | 0 | 0 | 337 |
| | 5:00 PM | | 0 | 2 | 151 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 163 | 0 | 0 | 0 | 0 | 0 | 316 |
| | 5:15 PM | | 0 | 3 | 159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 181 | 2 | 0 | 1 | 0 | 1 | 347 |
| | 5:30 PM | | 0 | 0 | 161 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 166 | 1 | 0 | 1 | 0 | 0 | 329 |
| | 5:45 PM | | 0 | 0 | 151 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 193 | 1 | 0 | 0 | 0 | 0 | 345 |
| | 4:00 PM to 5:00 PM | | 0 | 9 | 606 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 651 | 6 | 0 | 8 | 0 | 0 | 1280 |
| | 4:15 PM to 5:15 PM | | 0 | 8 | 601 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 642 | 3 | 0 | 7 | 0 | 0 | 1261 |
| 4:30 PM to 5:30 PM | | 0 | 9 | 611 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 680 | 3 | 0 | 5 | 0 | 1 | 1309 | |
| 4:45 PM to 5:45 PM | | 0 | 6 | 617 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 696 | 4 | 0 | 5 | 0 | 1 | 1329 | |
| 5:00 PM to 6:00 PM | | 0 | 5 | 622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 703 | 4 | 0 | 2 | 0 | 1 | 1337 | |
| Saturday Turning Movement Counts | 12:00 PM | | 0 | 0 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 199 |
| | 12:15 PM | | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 0 | 3 | 0 | 1 | 201 |
| | 12:30 PM | | 0 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 | 0 | 0 | 1 | 0 | 0 | 215 |
| | 12:45 PM | | 0 | 2 | 111 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 | 0 | 0 | 1 | 0 | 0 | 233 |
| | 1:00 PM | | 0 | 0 | 127 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 113 | 0 | 0 | 1 | 0 | 0 | 241 |
| | 1:15 PM | | 0 | 1 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 86 | 1 | 0 | 2 | 0 | 0 | 193 |
| | 1:30 PM | | 0 | 0 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 0 | 0 | 1 | 0 | 0 | 190 |
| | 1:45 PM | | 0 | 1 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 118 | 0 | 0 | 0 | 0 | 0 | 207 |
| | 12:00 PM to 1:00 PM | | 0 | 2 | 445 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 395 | 0 | 0 | 5 | 0 | 1 | 848 |
| | 12:15 PM to 1:15 PM | | 0 | 2 | 467 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 414 | 0 | 0 | 6 | 0 | 1 | 890 |
| 12:30 PM to 1:30 PM | | 0 | 3 | 460 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 413 | 1 | 0 | 5 | 0 | 0 | 882 | |
| 12:45 PM to 1:45 PM | | 0 | 3 | 448 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 400 | 1 | 0 | 5 | 0 | 0 | 857 | |
| 1:00 PM to 2:00 PM | | 0 | 2 | 425 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 399 | 1 | 0 | 4 | 0 | 0 | 831 | |
| Peak Hour | PHF | Start Time | | | | | | | | | | | | | | | | | |
| | AM | 0.820 | 7:30 AM | 0 | 3 | 795 | 0 | 0 | 0 | 0 | 0 | 0 | 629 | 0 | 0 | 18 | 0 | 1 | 1446 |
| | Midday | 0.968 | 12:45 PM | 0 | 1 | 580 | 0 | 0 | 0 | 0 | 0 | 0 | 597 | 2 | 0 | 8 | 0 | 1 | 1189 |
| | PM | 0.963 | 5:00 PM | 0 | 5 | 622 | 0 | 0 | 0 | 0 | 0 | 0 | 703 | 4 | 0 | 2 | 0 | 1 | 1337 |
| Saturday | 0.923 | 12:15 PM | 0 | 2 | 467 | 0 | 0 | 0 | 0 | 0 | 0 | 414 | 0 | 0 | 6 | 0 | 1 | 890 | |

| Hamlet: Village of Great Neck | | | | | | | | | | | | | | | | | Vehicle | | | |
|---|------------|-------------------|------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|-------|------|
| Project No. M15-012 | | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total | |
| Wooleys Lane at Middle Neck Road | | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | | |
| AM Turning Movement Counts | 7:00 AM | | 0 | 0 | 86 | 15 | 0 | 7 | 0 | 9 | 0 | 5 | 98 | 0 | 0 | 0 | 0 | 0 | 220 | |
| | 7:15 AM | | 0 | 0 | 113 | 13 | 0 | 13 | 0 | 19 | 0 | 5 | 90 | 0 | 0 | 0 | 0 | 0 | 253 | |
| | 7:30 AM | | 0 | 0 | 181 | 12 | 0 | 25 | 0 | 9 | 0 | 3 | 141 | 0 | 0 | 0 | 0 | 0 | 371 | |
| | 7:45 AM | | 0 | 0 | 226 | 28 | 0 | 34 | 0 | 14 | 0 | 19 | 183 | 0 | 0 | 0 | 0 | 0 | 504 | |
| | 8:00 AM | | 0 | 0 | 239 | 24 | 0 | 8 | 0 | 8 | 0 | 4 | 124 | 0 | 0 | 0 | 0 | 0 | 407 | |
| | 8:15 AM | | 0 | 0 | 153 | 12 | 0 | 10 | 0 | 8 | 0 | 6 | 142 | 0 | 0 | 0 | 0 | 0 | 331 | |
| | 8:30 AM | | 0 | 0 | 188 | 8 | 0 | 9 | 0 | 12 | 0 | 5 | 136 | 0 | 0 | 0 | 0 | 0 | 358 | |
| | 8:45 AM | | 0 | 0 | 194 | 11 | 0 | 21 | 0 | 16 | 0 | 4 | 146 | 0 | 0 | 0 | 0 | 0 | 392 | |
| | 7:00 AM | to | 8:00 AM | 0 | 0 | 606 | 68 | 0 | 79 | 0 | 51 | 0 | 32 | 512 | 0 | 0 | 0 | 0 | 0 | 1348 |
| | 7:15 AM | to | 8:15 AM | 0 | 0 | 759 | 77 | 0 | 80 | 0 | 50 | 0 | 31 | 538 | 0 | 0 | 0 | 0 | 0 | 1535 |
| | 7:30 AM | to | 8:30 AM | 0 | 0 | 799 | 76 | 0 | 77 | 0 | 39 | 0 | 32 | 590 | 0 | 0 | 0 | 0 | 0 | 1613 |
| 7:45 AM | to | 8:45 AM | 0 | 0 | 806 | 72 | 0 | 61 | 0 | 42 | 0 | 34 | 585 | 0 | 0 | 0 | 0 | 0 | 1600 | |
| 8:00 AM | to | 9:00 AM | 0 | 0 | 774 | 55 | 0 | 48 | 0 | 44 | 0 | 19 | 548 | 0 | 0 | 0 | 0 | 0 | 1488 | |
| Midday Turning Movement Counts | 12:00 PM | | 0 | 0 | 138 | 7 | 0 | 10 | 0 | 4 | 0 | 3 | 125 | 0 | 0 | 0 | 0 | 0 | 287 | |
| | 12:15 PM | | 0 | 0 | 138 | 11 | 0 | 10 | 0 | 7 | 0 | 10 | 131 | 0 | 0 | 0 | 0 | 0 | 307 | |
| | 12:30 PM | | 0 | 0 | 150 | 6 | 0 | 11 | 0 | 5 | 0 | 6 | 107 | 0 | 0 | 0 | 0 | 0 | 285 | |
| | 12:45 PM | | 0 | 0 | 138 | 10 | 0 | 2 | 0 | 4 | 0 | 7 | 152 | 0 | 0 | 0 | 0 | 0 | 313 | |
| | 1:00 PM | | 0 | 0 | 160 | 6 | 0 | 7 | 0 | 5 | 0 | 19 | 141 | 0 | 0 | 0 | 0 | 0 | 338 | |
| | 1:15 PM | | 0 | 0 | 138 | 9 | 0 | 8 | 0 | 9 | 0 | 4 | 151 | 0 | 0 | 0 | 0 | 0 | 319 | |
| | 1:30 PM | | 0 | 0 | 152 | 8 | 0 | 11 | 0 | 3 | 0 | 3 | 150 | 0 | 0 | 0 | 0 | 0 | 327 | |
| | 1:45 PM | | 0 | 0 | 124 | 8 | 0 | 7 | 0 | 6 | 0 | 4 | 154 | 0 | 0 | 0 | 0 | 0 | 303 | |
| | 12:00 PM | to | 1:00 PM | 0 | 0 | 564 | 34 | 0 | 33 | 0 | 20 | 0 | 26 | 515 | 0 | 0 | 0 | 0 | 0 | 1192 |
| | 12:15 PM | to | 1:15 PM | 0 | 0 | 586 | 33 | 0 | 30 | 0 | 21 | 0 | 42 | 531 | 0 | 0 | 0 | 0 | 0 | 1243 |
| | 12:30 PM | to | 1:30 PM | 0 | 0 | 586 | 31 | 0 | 28 | 0 | 23 | 0 | 36 | 551 | 0 | 0 | 0 | 0 | 0 | 1255 |
| 12:45 PM | to | 1:45 PM | 0 | 0 | 588 | 33 | 0 | 28 | 0 | 21 | 0 | 33 | 594 | 0 | 0 | 0 | 0 | 0 | 1297 | |
| 1:00 PM | to | 2:00 PM | 0 | 0 | 574 | 31 | 0 | 33 | 0 | 23 | 0 | 30 | 596 | 0 | 0 | 0 | 0 | 0 | 1287 | |
| PM Turning Movement Counts | 4:00 PM | | 0 | 0 | 156 | 17 | 0 | 20 | 0 | 7 | 0 | 3 | 171 | 0 | 0 | 0 | 0 | 0 | 374 | |
| | 4:15 PM | | 0 | 0 | 155 | 12 | 0 | 7 | 0 | 5 | 0 | 6 | 140 | 0 | 0 | 0 | 0 | 0 | 325 | |
| | 4:30 PM | | 0 | 0 | 155 | 8 | 0 | 9 | 0 | 9 | 0 | 9 | 148 | 0 | 0 | 0 | 0 | 0 | 338 | |
| | 4:45 PM | | 0 | 0 | 140 | 14 | 0 | 15 | 0 | 6 | 0 | 8 | 182 | 0 | 0 | 0 | 0 | 0 | 365 | |
| | 5:00 PM | | 0 | 0 | 145 | 10 | 0 | 11 | 0 | 11 | 0 | 7 | 152 | 0 | 0 | 0 | 0 | 0 | 336 | |
| | 5:15 PM | | 0 | 0 | 150 | 11 | 0 | 25 | 0 | 5 | 0 | 11 | 174 | 0 | 0 | 0 | 0 | 0 | 376 | |
| | 5:30 PM | | 0 | 0 | 164 | 11 | 0 | 11 | 0 | 7 | 0 | 5 | 159 | 0 | 0 | 0 | 0 | 0 | 357 | |
| | 5:45 PM | | 0 | 0 | 141 | 12 | 0 | 10 | 0 | 11 | 0 | 7 | 201 | 0 | 0 | 0 | 0 | 0 | 382 | |
| | 4:00 PM | to | 5:00 PM | 0 | 0 | 606 | 51 | 0 | 51 | 0 | 27 | 0 | 26 | 641 | 0 | 0 | 0 | 0 | 0 | 1402 |
| | 4:15 PM | to | 5:15 PM | 0 | 0 | 595 | 44 | 0 | 42 | 0 | 31 | 0 | 30 | 622 | 0 | 0 | 0 | 0 | 0 | 1364 |
| | 4:30 PM | to | 5:30 PM | 0 | 0 | 590 | 43 | 0 | 60 | 0 | 31 | 0 | 35 | 656 | 0 | 0 | 0 | 0 | 0 | 1415 |
| 4:45 PM | to | 5:45 PM | 0 | 0 | 599 | 46 | 0 | 62 | 0 | 29 | 0 | 31 | 667 | 0 | 0 | 0 | 0 | 0 | 1434 | |
| 5:00 PM | to | 6:00 PM | 0 | 0 | 600 | 44 | 0 | 57 | 0 | 34 | 0 | 30 | 686 | 0 | 0 | 0 | 0 | 0 | 1451 | |
| Saturday Turning Movement Counts | 12:00 PM | | 0 | 0 | 112 | 2 | 0 | 6 | 0 | 4 | 0 | 2 | 106 | 0 | 0 | 0 | 0 | 0 | 232 | |
| | 12:15 PM | | 0 | 0 | 110 | 4 | 0 | 6 | 0 | 6 | 0 | 1 | 77 | 0 | 0 | 0 | 0 | 0 | 204 | |
| | 12:30 PM | | 0 | 0 | 115 | 8 | 0 | 10 | 0 | 6 | 0 | 2 | 95 | 0 | 0 | 0 | 0 | 0 | 236 | |
| | 12:45 PM | | 0 | 0 | 113 | 6 | 0 | 7 | 0 | 9 | 0 | 3 | 101 | 0 | 0 | 0 | 0 | 0 | 239 | |
| | 1:00 PM | | 0 | 0 | 133 | 4 | 0 | 4 | 0 | 5 | 0 | 4 | 104 | 0 | 0 | 0 | 0 | 0 | 254 | |
| | 1:15 PM | | 0 | 0 | 112 | 8 | 0 | 4 | 0 | 6 | 0 | 5 | 86 | 0 | 0 | 0 | 0 | 0 | 221 | |
| | 1:30 PM | | 0 | 0 | 97 | 8 | 0 | 8 | 0 | 4 | 0 | 5 | 82 | 0 | 0 | 0 | 0 | 0 | 204 | |
| | 1:45 PM | | 0 | 0 | 117 | 8 | 0 | 5 | 0 | 4 | 0 | 2 | 83 | 0 | 0 | 0 | 0 | 0 | 219 | |
| | 12:00 PM | to | 1:00 PM | 0 | 0 | 450 | 20 | 0 | 29 | 0 | 25 | 0 | 8 | 379 | 0 | 0 | 0 | 0 | 0 | 911 |
| | 12:15 PM | to | 1:15 PM | 0 | 0 | 471 | 22 | 0 | 27 | 0 | 26 | 0 | 10 | 377 | 0 | 0 | 0 | 0 | 0 | 933 |
| | 12:30 PM | to | 1:30 PM | 0 | 0 | 473 | 26 | 0 | 25 | 0 | 26 | 0 | 14 | 386 | 0 | 0 | 0 | 0 | 0 | 950 |
| 12:45 PM | to | 1:45 PM | 0 | 0 | 455 | 26 | 0 | 23 | 0 | 24 | 0 | 17 | 373 | 0 | 0 | 0 | 0 | 0 | 918 | |
| 1:00 PM | to | 2:00 PM | 0 | 0 | 459 | 28 | 0 | 21 | 0 | 19 | 0 | 16 | 355 | 0 | 0 | 0 | 0 | 0 | 898 | |
| Peak Hour | PHF | Start Time | | | | | | | | | | | | | | | | | | |
| | AM | 0.800 | 7:30 AM | 0 | 0 | 799 | 76 | 0 | 77 | 0 | 39 | 0 | 32 | 590 | 0 | 0 | 0 | 0 | 0 | 1613 |
| | Midday | 0.959 | 12:45 PM | 0 | 0 | 588 | 33 | 0 | 28 | 0 | 21 | 0 | 33 | 594 | 0 | 0 | 0 | 0 | 0 | 1297 |
| | PM | 0.950 | 5:00 PM | 0 | 0 | 600 | 44 | 0 | 57 | 0 | 34 | 0 | 30 | 686 | 0 | 0 | 0 | 0 | 0 | 1451 |
| Saturday | 0.935 | 12:30 PM | 0 | 0 | 473 | 26 | 0 | 25 | 0 | 26 | 0 | 14 | 386 | 0 | 0 | 0 | 0 | 0 | 950 | |

Hamlet: Village of Great Neck
Project No. M15-012

| Millbrook Court at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Vehicle Total | |
|---|---------------------|------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|---------------|------|
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | | |
| AM Turning Movement Counts | 7:00 AM | 0 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 0 | 0 | 0 | 0 | 0 | 176 | |
| | 7:15 AM | 0 | 1 | 118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 | 1 | 0 | 1 | 0 | 0 | 202 | |
| | 7:30 AM | 0 | 1 | 171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 143 | 2 | 0 | 2 | 0 | 0 | 319 | |
| | 7:45 AM | 0 | 2 | 220 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 179 | 4 | 0 | 4 | 0 | 3 | 412 | |
| | 8:00 AM | 0 | 0 | 237 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 118 | 0 | 0 | 2 | 0 | 0 | 357 | |
| | 8:15 AM | 0 | 1 | 146 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 137 | 2 | 0 | 2 | 0 | 1 | 289 | |
| | 8:30 AM | 0 | 1 | 193 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130 | 2 | 0 | 4 | 0 | 1 | 331 | |
| | 8:45 AM | 0 | 2 | 196 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 139 | 2 | 0 | 2 | 0 | 3 | 344 | |
| | 7:00 AM to 8:00 AM | 0 | 4 | 602 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 486 | 7 | 0 | 7 | 0 | 3 | 1109 | |
| | 7:15 AM to 8:15 AM | 0 | 4 | 746 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 521 | 7 | 0 | 9 | 0 | 3 | 1290 | |
| 7:30 AM to 8:30 AM | 0 | 4 | 774 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 577 | 8 | 0 | 10 | 0 | 4 | 1377 | | |
| 7:45 AM to 8:45 AM | 0 | 4 | 796 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 564 | 8 | 0 | 12 | 0 | 5 | 1389 | | |
| 8:00 AM to 9:00 AM | 0 | 4 | 772 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 524 | 6 | 0 | 10 | 0 | 5 | 1321 | | |
| Midday Turning Movement Counts | 12:00 PM | 0 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 2 | 0 | 0 | 0 | 1 | 266 | |
| | 12:15 PM | 0 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 134 | 1 | 0 | 0 | 0 | 0 | 277 | |
| | 12:30 PM | 0 | 0 | 149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 | 1 | 0 | 2 | 0 | 0 | 267 | |
| | 12:45 PM | 0 | 1 | 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 152 | 0 | 0 | 0 | 0 | 0 | 298 | |
| | 1:00 PM | 0 | 1 | 149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 297 | |
| | 1:15 PM | 0 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 153 | 0 | 0 | 3 | 0 | 0 | 303 | |
| | 1:30 PM | 0 | 2 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 144 | 5 | 0 | 4 | 0 | 2 | 297 | |
| | 1:45 PM | 0 | 0 | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 152 | 2 | 0 | 2 | 0 | 1 | 289 | |
| | 12:00 PM to 1:00 PM | 0 | 1 | 578 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 522 | 4 | 0 | 2 | 0 | 1 | 1108 | |
| | 12:15 PM to 1:15 PM | 0 | 2 | 585 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 548 | 2 | 0 | 2 | 0 | 0 | 1139 | |
| 12:30 PM to 1:30 PM | 0 | 2 | 590 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 567 | 1 | 0 | 5 | 0 | 0 | 1165 | | |
| 12:45 PM to 1:45 PM | 0 | 4 | 581 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 596 | 5 | 0 | 7 | 0 | 2 | 1195 | | |
| 1:00 PM to 2:00 PM | 0 | 3 | 568 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 596 | 7 | 0 | 9 | 0 | 3 | 1186 | | |
| PM Turning Movement Counts | 4:00 PM | 0 | 2 | 144 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 162 | 0 | 0 | 0 | 0 | 3 | 311 | |
| | 4:15 PM | 0 | 2 | 141 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 143 | 1 | 0 | 0 | 0 | 2 | 289 | |
| | 4:30 PM | 0 | 1 | 152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 149 | 1 | 0 | 1 | 0 | 3 | 307 | |
| | 4:45 PM | 0 | 3 | 138 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 180 | 3 | 0 | 1 | 0 | 0 | 325 | |
| | 5:00 PM | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 151 | 0 | 0 | 1 | 0 | 1 | 303 | |
| | 5:15 PM | 0 | 2 | 152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 1 | 0 | 0 | 0 | 1 | 332 | |
| | 5:30 PM | 0 | 0 | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 157 | 1 | 0 | 1 | 0 | 0 | 319 | |
| | 5:45 PM | 0 | 2 | 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 192 | 2 | 0 | 1 | 0 | 0 | 342 | |
| | 4:00 PM to 5:00 PM | 0 | 8 | 575 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 634 | 5 | 0 | 2 | 0 | 8 | 1232 | |
| | 4:15 PM to 5:15 PM | 0 | 6 | 581 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 623 | 5 | 0 | 3 | 0 | 6 | 1224 | |
| 4:30 PM to 5:30 PM | 0 | 6 | 592 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 656 | 5 | 0 | 3 | 0 | 5 | 1267 | | |
| 4:45 PM to 5:45 PM | 0 | 5 | 600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 664 | 5 | 0 | 3 | 0 | 2 | 1279 | | |
| 5:00 PM to 6:00 PM | 0 | 4 | 607 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 676 | 4 | 0 | 3 | 0 | 2 | 1296 | | |
| Saturday Turning Movement Counts | 12:00 PM | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 91 | 0 | 0 | 1 | 0 | 1 | 203 | |
| | 12:15 PM | 0 | 6 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 0 | 0 | 6 | 0 | 2 | 193 | |
| | 12:30 PM | 0 | 1 | 123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 | 0 | 0 | 1 | 0 | 2 | 220 | |
| | 12:45 PM | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 | 0 | 0 | 0 | 0 | 1 | 224 | |
| | 1:00 PM | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 233 | |
| | 1:15 PM | 0 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 3 | 0 | 2 | 0 | 0 | 193 | |
| | 1:30 PM | 0 | 2 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 1 | 0 | 3 | 0 | 0 | 196 | |
| | 1:45 PM | 0 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 | 2 | 0 | 1 | 0 | 0 | 208 | |
| | 12:00 PM to 1:00 PM | 0 | 7 | 437 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 382 | 0 | 0 | 8 | 0 | 6 | 840 | |
| | 12:15 PM to 1:15 PM | 0 | 7 | 452 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 399 | 0 | 0 | 7 | 0 | 5 | 870 | |
| 12:30 PM to 1:30 PM | 0 | 2 | 456 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 403 | 3 | 0 | 3 | 0 | 3 | 870 | | |
| 12:45 PM to 1:45 PM | 0 | 3 | 440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 393 | 4 | 0 | 5 | 0 | 1 | 846 | | |
| 1:00 PM to 2:00 PM | 0 | 3 | 423 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 392 | 6 | 0 | 6 | 0 | 0 | 830 | | |
| Peak Hour | PHF | | | | | | | | | | | | | | | | | | |
| | AM 0.843 | 7:45 AM | 0 | 4 | 796 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 564 | 8 | 0 | 12 | 0 | 5 | 1389 |
| | Midday 0.986 | 12:45 PM | 0 | 4 | 581 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 596 | 5 | 0 | 7 | 0 | 2 | 1195 |
| | PM 0.947 | 5:00 PM | 0 | 4 | 607 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 676 | 4 | 0 | 3 | 0 | 2 | 1296 |
| Saturday 0.933 | 12:15 PM | 0 | 7 | 452 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 399 | 0 | 0 | 7 | 0 | 5 | 870 | |

Hamlet: Village of Great Neck
Project No. M15-012

| South Site Access at Middle Neck Road | | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Vehicle Total |
|---|------------|-------------------|------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|---------------|
| | | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| AM Turning Movement Counts | 7:00 AM | | 0 | 0 | 101 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 201 | |
| | 7:15 AM | | 0 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 220 | |
| | 7:30 AM | | 0 | 0 | 185 | 0 | 0 | 0 | 0 | 0 | 0 | 147 | 0 | 0 | 3 | 0 | 0 | 335 | |
| | 7:45 AM | | 0 | 2 | 235 | 0 | 0 | 0 | 0 | 0 | 0 | 187 | 0 | 0 | 2 | 0 | 0 | 426 | |
| | 8:00 AM | | 0 | 3 | 248 | 0 | 0 | 0 | 0 | 0 | 0 | 123 | 0 | 0 | 0 | 0 | 1 | 375 | |
| | 8:15 AM | | 0 | 0 | 154 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 2 | 0 | 0 | 306 | |
| | 8:30 AM | | 0 | 0 | 202 | 0 | 0 | 0 | 0 | 0 | 0 | 140 | 0 | 0 | 0 | 0 | 0 | 342 | |
| | 8:45 AM | | 0 | 0 | 203 | 0 | 0 | 0 | 0 | 0 | 0 | 149 | 0 | 0 | 1 | 0 | 0 | 353 | |
| | 7:00 AM | to | 8:00 AM | 0 | 2 | 654 | 0 | 0 | 0 | 0 | 0 | 521 | 0 | 0 | 5 | 0 | 0 | 1182 | |
| | 7:15 AM | to | 8:15 AM | 0 | 5 | 801 | 0 | 0 | 0 | 0 | 0 | 544 | 0 | 0 | 5 | 0 | 1 | 1356 | |
| 7:30 AM | to | 8:30 AM | 0 | 5 | 822 | 0 | 0 | 0 | 0 | 0 | 607 | 0 | 0 | 7 | 0 | 1 | 1442 | | |
| 7:45 AM | to | 8:45 AM | 0 | 5 | 839 | 0 | 0 | 0 | 0 | 0 | 600 | 0 | 0 | 4 | 0 | 1 | 1449 | | |
| 8:00 AM | to | 9:00 AM | 0 | 3 | 807 | 0 | 0 | 0 | 0 | 0 | 562 | 0 | 0 | 3 | 0 | 1 | 1376 | | |
| Midday Turning Movement Counts | 12:00 PM | | 0 | 0 | 143 | 0 | 0 | 0 | 0 | 0 | 128 | 1 | 0 | 0 | 0 | 0 | 272 | | |
| | 12:15 PM | | 0 | 0 | 141 | 0 | 0 | 0 | 0 | 0 | 136 | 0 | 0 | 0 | 0 | 0 | 277 | | |
| | 12:30 PM | | 0 | 1 | 150 | 0 | 0 | 0 | 0 | 0 | 118 | 1 | 0 | 2 | 0 | 0 | 272 | | |
| | 12:45 PM | | 0 | 0 | 146 | 0 | 0 | 0 | 0 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 302 | | |
| | 1:00 PM | | 0 | 0 | 154 | 0 | 0 | 0 | 0 | 0 | 152 | 0 | 0 | 0 | 0 | 1 | 307 | | |
| | 1:15 PM | | 0 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 160 | 0 | 0 | 0 | 0 | 0 | 316 | | |
| | 1:30 PM | | 0 | 0 | 148 | 0 | 0 | 0 | 0 | 0 | 154 | 0 | 0 | 0 | 0 | 0 | 302 | | |
| | 1:45 PM | | 0 | 0 | 139 | 0 | 0 | 0 | 0 | 0 | 163 | 0 | 0 | 1 | 0 | 0 | 303 | | |
| | 12:00 PM | to | 1:00 PM | 0 | 1 | 580 | 0 | 0 | 0 | 0 | 538 | 2 | 0 | 2 | 0 | 0 | 1123 | | |
| | 12:15 PM | to | 1:15 PM | 0 | 1 | 591 | 0 | 0 | 0 | 0 | 562 | 1 | 0 | 2 | 0 | 1 | 1158 | | |
| 12:30 PM | to | 1:30 PM | 0 | 1 | 606 | 0 | 0 | 0 | 0 | 586 | 1 | 0 | 2 | 0 | 1 | 1197 | | | |
| 12:45 PM | to | 1:45 PM | 0 | 0 | 604 | 0 | 0 | 0 | 0 | 622 | 0 | 0 | 0 | 0 | 1 | 1227 | | | |
| 1:00 PM | to | 2:00 PM | 0 | 0 | 597 | 0 | 0 | 0 | 0 | 629 | 0 | 0 | 1 | 0 | 1 | 1228 | | | |
| PM Turning Movement Counts | 4:00 PM | | 0 | 1 | 160 | 0 | 0 | 0 | 0 | 0 | 176 | 0 | 0 | 1 | 0 | 0 | 338 | | |
| | 4:15 PM | | 0 | 1 | 156 | 0 | 0 | 0 | 0 | 0 | 150 | 1 | 0 | 1 | 0 | 0 | 309 | | |
| | 4:30 PM | | 0 | 1 | 167 | 0 | 0 | 0 | 0 | 0 | 152 | 0 | 0 | 0 | 0 | 0 | 320 | | |
| | 4:45 PM | | 0 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 192 | 0 | 0 | 1 | 0 | 0 | 335 | | |
| | 5:00 PM | | 0 | 0 | 162 | 0 | 0 | 0 | 0 | 0 | 150 | 1 | 0 | 0 | 0 | 0 | 313 | | |
| | 5:15 PM | | 0 | 0 | 157 | 0 | 0 | 0 | 0 | 0 | 181 | 0 | 0 | 0 | 0 | 0 | 338 | | |
| | 5:30 PM | | 0 | 0 | 165 | 0 | 0 | 0 | 0 | 0 | 154 | 0 | 0 | 0 | 0 | 0 | 319 | | |
| | 5:45 PM | | 0 | 0 | 153 | 0 | 0 | 0 | 0 | 0 | 193 | 1 | 0 | 0 | 0 | 0 | 347 | | |
| | 4:00 PM | to | 5:00 PM | 0 | 3 | 625 | 0 | 0 | 0 | 0 | 670 | 1 | 0 | 3 | 0 | 0 | 1302 | | |
| | 4:15 PM | to | 5:15 PM | 0 | 2 | 627 | 0 | 0 | 0 | 0 | 644 | 2 | 0 | 2 | 0 | 0 | 1277 | | |
| 4:30 PM | to | 5:30 PM | 0 | 1 | 628 | 0 | 0 | 0 | 0 | 675 | 1 | 0 | 1 | 0 | 0 | 1306 | | | |
| 4:45 PM | to | 5:45 PM | 0 | 0 | 626 | 0 | 0 | 0 | 0 | 677 | 1 | 0 | 1 | 0 | 0 | 1305 | | | |
| 5:00 PM | to | 6:00 PM | 0 | 0 | 637 | 0 | 0 | 0 | 0 | 678 | 2 | 0 | 0 | 0 | 0 | 1317 | | | |
| Saturday Turning Movement Counts | 12:00 PM | | 0 | 2 | 98 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 0 | 2 | 0 | 0 | 189 | | |
| | 12:15 PM | | 0 | 0 | 107 | 0 | 0 | 0 | 0 | 0 | 75 | 0 | 0 | 2 | 0 | 0 | 184 | | |
| | 12:30 PM | | 0 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 214 | | |
| | 12:45 PM | | 0 | 0 | 102 | 0 | 0 | 0 | 0 | 0 | 98 | 1 | 0 | 1 | 0 | 1 | 203 | | |
| | 1:00 PM | | 0 | 0 | 126 | 0 | 0 | 0 | 0 | 0 | 107 | 0 | 0 | 0 | 0 | 0 | 233 | | |
| | 1:15 PM | | 0 | 1 | 99 | 0 | 0 | 0 | 0 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 188 | | |
| | 1:30 PM | | 0 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 198 | | |
| | 1:45 PM | | 0 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 114 | 0 | 0 | 0 | 0 | 0 | 207 | | |
| | 12:00 PM | to | 1:00 PM | 0 | 2 | 426 | 0 | 0 | 0 | 0 | 355 | 1 | 0 | 5 | 0 | 1 | 790 | | |
| | 12:15 PM | to | 1:15 PM | 0 | 0 | 454 | 0 | 0 | 0 | 0 | 375 | 1 | 0 | 3 | 0 | 1 | 834 | | |
| 12:30 PM | to | 1:30 PM | 0 | 1 | 446 | 0 | 0 | 0 | 0 | 388 | 1 | 0 | 1 | 0 | 1 | 838 | | | |
| 12:45 PM | to | 1:45 PM | 0 | 1 | 439 | 0 | 0 | 0 | 0 | 379 | 1 | 0 | 1 | 0 | 1 | 822 | | | |
| 1:00 PM | to | 2:00 PM | 0 | 1 | 430 | 0 | 0 | 0 | 0 | 395 | 0 | 0 | 0 | 0 | 0 | 826 | | | |
| Peak Hour | PHF | Start Time | | | | | | | | | | | | | | | | | |
| AM | 0.850 | 7:45 AM | 0 | 5 | 839 | 0 | 0 | 0 | 0 | 0 | 600 | 0 | 0 | 4 | 0 | 1 | 1449 | | |
| Midday | 0.972 | 1:00 PM | 0 | 0 | 597 | 0 | 0 | 0 | 0 | 0 | 629 | 0 | 0 | 1 | 0 | 1 | 1228 | | |
| PM | 0.949 | 5:00 PM | 0 | 0 | 637 | 0 | 0 | 0 | 0 | 0 | 678 | 2 | 0 | 0 | 0 | 0 | 1317 | | |
| Saturday | 0.899 | 12:30 PM | 0 | 1 | 446 | 0 | 0 | 0 | 0 | 0 | 388 | 1 | 0 | 1 | 0 | 1 | 838 | | |

Mulryan Engineering, P.C.

Study Intersection No. 6

Hamlet: Village of Great Neck
 Project No. M15-012

| Clover Drive at Middle Neck Road | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Vehicle Total |
|---|------------|-------------------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|---------------|
| | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| AM Turning Movement Counts | | | | | | | | | | | | | | | | | |
| 7:00 AM | 0 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101 | 8 | 0 | 1 | 0 | 1 | 212 |
| 7:15 AM | 0 | 1 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 86 | 6 | 0 | 3 | 0 | 2 | 231 |
| 7:30 AM | 0 | 3 | 185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 | 12 | 0 | 3 | 0 | 5 | 355 |
| 7:45 AM | 0 | 14 | 218 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 189 | 10 | 0 | 4 | 0 | 8 | 443 |
| 8:00 AM | 0 | 5 | 256 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 | 13 | 0 | 2 | 0 | 5 | 400 |
| 8:15 AM | 0 | 9 | 157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140 | 16 | 0 | 4 | 0 | 3 | 329 |
| 8:30 AM | 0 | 22 | 185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130 | 18 | 0 | 8 | 0 | 12 | 375 |
| 8:45 AM | 0 | 15 | 201 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130 | 30 | 0 | 1 | 0 | 12 | 389 |
| 7:00 AM to 8:00 AM | 0 | 19 | 636 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 523 | 36 | 0 | 11 | 0 | 16 | 1241 |
| 7:15 AM to 8:15 AM | 0 | 23 | 792 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 541 | 41 | 0 | 12 | 0 | 20 | 1429 |
| 7:30 AM to 8:30 AM | 0 | 31 | 816 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 595 | 51 | 0 | 13 | 0 | 21 | 1527 |
| 7:45 AM to 8:45 AM | 0 | 50 | 816 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 578 | 57 | 0 | 18 | 0 | 28 | 1547 |
| 8:00 AM to 9:00 AM | 0 | 51 | 799 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 519 | 77 | 0 | 15 | 0 | 32 | 1493 |
| Midday Turning Movement Counts | | | | | | | | | | | | | | | | | |
| 12:00 PM | 0 | 3 | 139 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 129 | 3 | 0 | 2 | 0 | 4 | 280 |
| 12:15 PM | 0 | 3 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 | 4 | 0 | 6 | 0 | 6 | 291 |
| 12:30 PM | 0 | 4 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 117 | 10 | 0 | 3 | 0 | 4 | 288 |
| 12:45 PM | 0 | 5 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 155 | 6 | 0 | 15 | 0 | 5 | 326 |
| 1:00 PM | 0 | 5 | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 152 | 5 | 0 | 43 | 0 | 5 | 366 |
| 1:15 PM | 0 | 3 | 152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 156 | 6 | 0 | 4 | 0 | 5 | 326 |
| 1:30 PM | 0 | 5 | 146 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 1 | 0 | 4 | 0 | 3 | 317 |
| 1:45 PM | 0 | 10 | 127 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160 | 3 | 0 | 8 | 0 | 3 | 311 |
| 12:00 PM to 1:00 PM | 0 | 15 | 569 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 533 | 23 | 0 | 26 | 0 | 19 | 1185 |
| 12:15 PM to 1:15 PM | 0 | 17 | 586 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 556 | 25 | 0 | 67 | 0 | 20 | 1271 |
| 12:30 PM to 1:30 PM | 0 | 17 | 598 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 580 | 27 | 0 | 65 | 0 | 19 | 1306 |
| 12:45 PM to 1:45 PM | 0 | 18 | 594 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 621 | 18 | 0 | 66 | 0 | 18 | 1335 |
| 1:00 PM to 2:00 PM | 0 | 23 | 581 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 626 | 15 | 0 | 59 | 0 | 16 | 1320 |
| PM Turning Movement Counts | | | | | | | | | | | | | | | | | |
| 4:00 PM | 0 | 12 | 149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 165 | 4 | 0 | 9 | 0 | 8 | 347 |
| 4:15 PM | 0 | 5 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 | 7 | 0 | 3 | 0 | 4 | 316 |
| 4:30 PM | 0 | 9 | 163 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 153 | 4 | 0 | 2 | 0 | 0 | 331 |
| 4:45 PM | 0 | 9 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 188 | 6 | 0 | 5 | 0 | 3 | 344 |
| 5:00 PM | 0 | 4 | 164 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 | 3 | 0 | 8 | 0 | 2 | 328 |
| 5:15 PM | 0 | 5 | 154 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 178 | 2 | 0 | 2 | 0 | 1 | 342 |
| 5:30 PM | 0 | 4 | 166 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160 | 3 | 0 | 1 | 0 | 1 | 335 |
| 5:45 PM | 0 | 9 | 149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 206 | 13 | 0 | 2 | 0 | 1 | 380 |
| 4:00 PM to 5:00 PM | 0 | 35 | 595 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 653 | 21 | 0 | 19 | 0 | 15 | 1338 |
| 4:15 PM to 5:15 PM | 0 | 27 | 610 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 635 | 20 | 0 | 18 | 0 | 9 | 1319 |
| 4:30 PM to 5:30 PM | 0 | 27 | 614 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 666 | 15 | 0 | 17 | 0 | 6 | 1345 |
| 4:45 PM to 5:45 PM | 0 | 22 | 617 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 673 | 14 | 0 | 16 | 0 | 7 | 1349 |
| 5:00 PM to 6:00 PM | 0 | 22 | 633 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 691 | 21 | 0 | 13 | 0 | 5 | 1385 |
| Saturday Turning Movement Counts | | | | | | | | | | | | | | | | | |
| 12:00 PM | 0 | 0 | 111 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 91 | 4 | 0 | 3 | 0 | 1 | 210 |
| 12:15 PM | 0 | 1 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 3 | 0 | 2 | 0 | 2 | 191 |
| 12:30 PM | 0 | 2 | 119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 | 3 | 0 | 4 | 0 | 1 | 222 |
| 12:45 PM | 0 | 2 | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 106 | 1 | 0 | 7 | 0 | 3 | 223 |
| 1:00 PM | 0 | 2 | 121 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 | 2 | 0 | 19 | 0 | 5 | 253 |
| 1:15 PM | 0 | 1 | 101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 | 1 | 0 | 3 | 0 | 1 | 202 |
| 1:30 PM | 0 | 1 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 2 | 0 | 0 | 0 | 0 | 197 |
| 1:45 PM | 0 | 1 | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116 | 6 | 0 | 0 | 0 | 1 | 216 |
| 12:00 PM to 1:00 PM | 0 | 5 | 437 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 370 | 11 | 0 | 16 | 0 | 7 | 846 |
| 12:15 PM to 1:15 PM | 0 | 7 | 447 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 383 | 9 | 0 | 32 | 0 | 11 | 889 |
| 12:30 PM to 1:30 PM | 0 | 7 | 445 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 398 | 7 | 0 | 33 | 0 | 10 | 900 |
| 12:45 PM to 1:45 PM | 0 | 6 | 433 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 392 | 6 | 0 | 29 | 0 | 9 | 875 |
| 1:00 PM to 2:00 PM | 0 | 5 | 421 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 402 | 11 | 0 | 22 | 0 | 7 | 868 |
| Peak Hour | PHF | Start Time | | | | | | | | | | | | | | | |
| AM | 0.873 | 7:45 AM | 0 | 50 | 816 | 0 | 0 | 0 | 0 | 0 | 578 | 57 | 0 | 18 | 0 | 28 | 1547 |
| Midday | 0.912 | 12:45 PM | 0 | 18 | 594 | 0 | 0 | 0 | 0 | 0 | 621 | 18 | 0 | 66 | 0 | 18 | 1335 |
| PM | 0.911 | 5:00 PM | 0 | 22 | 633 | 0 | 0 | 0 | 0 | 0 | 691 | 21 | 0 | 13 | 0 | 5 | 1385 |
| Saturday | 0.889 | 12:30 PM | 0 | 7 | 445 | 0 | 0 | 0 | 0 | 0 | 398 | 7 | 0 | 33 | 0 | 10 | 900 |

Mulryan Engineering, P.C.

Study Intersection No. 7

Hamlet: Village of Great Neck
 Project No. M15-012

| Allenwood Road at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Vehicle Total | |
|---|---------------------|---------------------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|------------------|------|
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | | |
| AM Turning Movement Counts | 7:00 AM | 0 | 4 | 92 | 6 | 0 | 3 | 0 | 9 | 0 | 8 | 109 | 0 | 0 | 2 | 0 | 0 | 233 | |
| | 7:15 AM | 0 | 2 | 139 | 3 | 0 | 2 | 0 | 14 | 0 | 14 | 89 | 0 | 0 | 0 | 0 | 0 | 263 | |
| | 7:30 AM | 0 | 7 | 181 | 5 | 0 | 6 | 0 | 31 | 0 | 13 | 152 | 1 | 0 | 1 | 0 | 2 | 399 | |
| | 7:45 AM | 0 | 4 | 211 | 7 | 0 | 9 | 0 | 18 | 0 | 13 | 183 | 1 | 0 | 0 | 0 | 3 | 449 | |
| | 8:00 AM | 0 | 5 | 249 | 5 | 0 | 4 | 1 | 27 | 0 | 10 | 129 | 0 | 0 | 1 | 0 | 0 | 431 | |
| | 8:15 AM | 0 | 6 | 153 | 8 | 0 | 11 | 0 | 21 | 0 | 13 | 148 | 0 | 0 | 0 | 0 | 0 | 360 | |
| | 8:30 AM | 0 | 3 | 186 | 7 | 0 | 4 | 1 | 16 | 0 | 5 | 145 | 5 | 0 | 0 | 0 | 0 | 372 | |
| | 8:45 AM | 0 | 5 | 186 | 3 | 0 | 2 | 0 | 23 | 0 | 13 | 162 | 4 | 0 | 4 | 0 | 2 | 404 | |
| | 7:00 AM to 8:00 AM | 0 | 17 | 623 | 21 | 0 | 20 | 0 | 72 | 0 | 48 | 533 | 2 | 0 | 3 | 0 | 5 | 1344 | |
| | 7:15 AM to 8:15 AM | 0 | 18 | 780 | 20 | 0 | 21 | 1 | 90 | 0 | 50 | 553 | 2 | 0 | 2 | 0 | 5 | 1542 | |
| | 7:30 AM to 8:30 AM | 0 | 22 | 794 | 25 | 0 | 30 | 1 | 97 | 0 | 49 | 612 | 2 | 0 | 2 | 0 | 5 | 1639 | |
| | 7:45 AM to 8:45 AM | 0 | 18 | 799 | 27 | 0 | 28 | 2 | 82 | 0 | 41 | 605 | 6 | 0 | 1 | 0 | 3 | 1612 | |
| 8:00 AM to 9:00 AM | 0 | 19 | 774 | 23 | 0 | 21 | 2 | 87 | 0 | 41 | 584 | 9 | 0 | 5 | 0 | 2 | 1567 | | |
| Midday Turning Movement Counts | 12:00 PM | 0 | 2 | 136 | 3 | 0 | 3 | 0 | 15 | 0 | 10 | 126 | 3 | 0 | 1 | 0 | 0 | 299 | |
| | 12:15 PM | 0 | 3 | 139 | 3 | 0 | 2 | 0 | 11 | 0 | 8 | 133 | 2 | 0 | 2 | 0 | 0 | 303 | |
| | 12:30 PM | 0 | 2 | 152 | 3 | 0 | 0 | 1 | 13 | 0 | 11 | 125 | 1 | 0 | 0 | 0 | 1 | 309 | |
| | 12:45 PM | 0 | 4 | 151 | 1 | 0 | 5 | 0 | 6 | 0 | 9 | 157 | 6 | 0 | 0 | 1 | 0 | 340 | |
| | 1:00 PM | 0 | 6 | 185 | 1 | 0 | 5 | 0 | 11 | 0 | 11 | 145 | 6 | 0 | 1 | 1 | 0 | 372 | |
| | 1:15 PM | 0 | 4 | 155 | 1 | 0 | 1 | 0 | 11 | 0 | 4 | 161 | 3 | 0 | 0 | 0 | 1 | 341 | |
| | 1:30 PM | 0 | 3 | 150 | 2 | 0 | 0 | 0 | 2 | 0 | 10 | 162 | 4 | 0 | 0 | 0 | 1 | 334 | |
| | 1:45 PM | 0 | 4 | 126 | 0 | 0 | 1 | 0 | 9 | 0 | 7 | 162 | 4 | 0 | 2 | 0 | 1 | 316 | |
| | 12:00 PM to 1:00 PM | 0 | 11 | 578 | 10 | 0 | 10 | 1 | 45 | 0 | 38 | 541 | 12 | 0 | 3 | 1 | 1 | 1251 | |
| | 12:15 PM to 1:15 PM | 0 | 15 | 627 | 8 | 0 | 12 | 1 | 41 | 0 | 39 | 560 | 15 | 0 | 3 | 2 | 1 | 1324 | |
| | 12:30 PM to 1:30 PM | 0 | 16 | 643 | 6 | 0 | 11 | 1 | 41 | 0 | 35 | 588 | 16 | 0 | 1 | 2 | 2 | 1362 | |
| | 12:45 PM to 1:45 PM | 0 | 17 | 641 | 5 | 0 | 11 | 0 | 30 | 0 | 34 | 625 | 19 | 0 | 1 | 2 | 2 | 1387 | |
| 1:00 PM to 2:00 PM | 0 | 17 | 616 | 4 | 0 | 7 | 0 | 33 | 0 | 32 | 630 | 17 | 0 | 3 | 1 | 3 | 1363 | | |
| PM Turning Movement Counts | 4:00 PM | 0 | 5 | 151 | 4 | 0 | 4 | 0 | 7 | 0 | 13 | 161 | 2 | 0 | 0 | 0 | 2 | 349 | |
| | 4:15 PM | 0 | 2 | 147 | 0 | 0 | 1 | 0 | 14 | 0 | 8 | 148 | 7 | 0 | 5 | 0 | 3 | 335 | |
| | 4:30 PM | 0 | 4 | 166 | 2 | 0 | 2 | 1 | 6 | 0 | 18 | 156 | 2 | 0 | 2 | 0 | 0 | 359 | |
| | 4:45 PM | 0 | 1 | 139 | 2 | 0 | 5 | 0 | 15 | 0 | 14 | 194 | 1 | 0 | 3 | 0 | 1 | 375 | |
| | 5:00 PM | 0 | 4 | 167 | 2 | 0 | 1 | 0 | 11 | 0 | 12 | 161 | 2 | 0 | 1 | 2 | 0 | 363 | |
| | 5:15 PM | 0 | 13 | 131 | 3 | 0 | 3 | 0 | 6 | 0 | 33 | 190 | 5 | 0 | 1 | 1 | 1 | 387 | |
| | 5:30 PM | 0 | 3 | 158 | 2 | 0 | 4 | 0 | 9 | 0 | 22 | 164 | 1 | 0 | 1 | 0 | 2 | 366 | |
| | 5:45 PM | 0 | 3 | 143 | 4 | 0 | 4 | 0 | 16 | 0 | 10 | 215 | 2 | 0 | 3 | 1 | 1 | 402 | |
| | 4:00 PM to 5:00 PM | 0 | 12 | 603 | 8 | 0 | 12 | 1 | 42 | 0 | 53 | 659 | 12 | 0 | 10 | 0 | 6 | 1418 | |
| | 4:15 PM to 5:15 PM | 0 | 11 | 619 | 6 | 0 | 9 | 1 | 46 | 0 | 52 | 659 | 12 | 0 | 11 | 2 | 4 | 1432 | |
| | 4:30 PM to 5:30 PM | 0 | 22 | 603 | 9 | 0 | 11 | 1 | 38 | 0 | 77 | 701 | 10 | 0 | 7 | 3 | 2 | 1484 | |
| | 4:45 PM to 5:45 PM | 0 | 21 | 595 | 9 | 0 | 13 | 0 | 41 | 0 | 81 | 709 | 9 | 0 | 6 | 3 | 4 | 1491 | |
| 5:00 PM to 6:00 PM | 0 | 23 | 599 | 11 | 0 | 12 | 0 | 42 | 0 | 77 | 730 | 10 | 0 | 6 | 4 | 4 | 1518 | | |
| Saturday Turning Movement Counts | 12:00 PM | 0 | 3 | 109 | 1 | 0 | 1 | 0 | 5 | 0 | 8 | 92 | 3 | 0 | 1 | 0 | 1 | 224 | |
| | 12:15 PM | 0 | 1 | 111 | 2 | 0 | 5 | 0 | 5 | 0 | 15 | 80 | 1 | 0 | 1 | 0 | 1 | 222 | |
| | 12:30 PM | 0 | 5 | 121 | 3 | 0 | 1 | 0 | 6 | 0 | 13 | 97 | 0 | 0 | 0 | 1 | 0 | 247 | |
| | 12:45 PM | 0 | 2 | 111 | 0 | 0 | 1 | 0 | 12 | 0 | 13 | 101 | 0 | 0 | 1 | 0 | 0 | 241 | |
| | 1:00 PM | 0 | 1 | 143 | 0 | 0 | 1 | 0 | 8 | 0 | 12 | 104 | 3 | 0 | 2 | 0 | 2 | 276 | |
| | 1:15 PM | 0 | 2 | 102 | 0 | 0 | 1 | 0 | 7 | 0 | 10 | 92 | 1 | 0 | 1 | 1 | 1 | 218 | |
| | 1:30 PM | 0 | 4 | 108 | 1 | 0 | 3 | 0 | 9 | 0 | 8 | 86 | 2 | 0 | 0 | 0 | 0 | 221 | |
| | 1:45 PM | 0 | 1 | 89 | 0 | 0 | 2 | 0 | 8 | 0 | 8 | 119 | 3 | 0 | 0 | 0 | 0 | 230 | |
| | 12:00 PM to 1:00 PM | 0 | 11 | 452 | 6 | 0 | 8 | 0 | 28 | 0 | 49 | 370 | 4 | 0 | 3 | 1 | 2 | 934 | |
| | 12:15 PM to 1:15 PM | 0 | 9 | 486 | 5 | 0 | 8 | 0 | 31 | 0 | 53 | 382 | 4 | 0 | 4 | 1 | 3 | 986 | |
| | 12:30 PM to 1:30 PM | 0 | 10 | 477 | 3 | 0 | 4 | 0 | 33 | 0 | 48 | 394 | 4 | 0 | 4 | 2 | 3 | 982 | |
| | 12:45 PM to 1:45 PM | 0 | 9 | 464 | 1 | 0 | 6 | 0 | 36 | 0 | 43 | 383 | 6 | 0 | 4 | 1 | 3 | 956 | |
| 1:00 PM to 2:00 PM | 0 | 8 | 442 | 1 | 0 | 7 | 0 | 32 | 0 | 38 | 401 | 9 | 0 | 3 | 1 | 3 | 945 | | |
| Peak Hour | PHF | | | | | | | | | | | | | | | | | | |
| | AM 0.913 | Start Time 7:30 AM | 0 | 22 | 794 | 25 | 0 | 30 | 1 | 97 | 0 | 49 | 612 | 2 | 0 | 2 | 0 | 5 | 1639 |
| | Midday 0.932 | 12:45 PM | 0 | 17 | 641 | 5 | 0 | 11 | 0 | 30 | 0 | 34 | 625 | 19 | 0 | 1 | 2 | 2 | 1387 |
| | PM 0.944 | 5:00 PM | 0 | 23 | 599 | 11 | 0 | 12 | 0 | 42 | 0 | 77 | 730 | 10 | 0 | 6 | 4 | 4 | 1518 |
| Saturday 0.893 | 12:15 PM | 0 | 9 | 486 | 5 | 0 | 8 | 0 | 31 | 0 | 53 | 382 | 4 | 0 | 4 | 1 | 3 | 986 | |

SECTION NO. 03 TABLES

Hamlet: Village of Great Neck
Project No. M15-012

Growth Factor: 1.00%
No. of Years: 5
Growth Rate: 1.050

| ITE Trip Generation 186 Apartment Units | | | |
|--|----|-----|-----|
| | AM | PM | SAT |
| Enter | 19 | 75 | 49 |
| Exit | 76 | 41 | 49 |
| Total | 95 | 116 | 98 |

| ITE Trip Generation Net Change 67 Units | | | |
|--|----|----|-----|
| | AM | PM | SAT |
| Enter | 7 | 27 | 17 |
| Exit | 27 | 15 | 17 |
| Total | 34 | 42 | 34 |

| Old Mill/Piccadilly Road at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
|---|----------|------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|-------|
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| Other Planned Projects | AM | | | 2 | | | | | | | | 3 | 2 | | 1 | | | 9 |
| Site Generated Volum | PM | | | 4 | | | | | | | | 3 | 1 | | 4 | | | 12 |
| | SAT | | | 3 | | | | | | | | 3 | 1 | | 2 | | | 9 |
| Site Generated Volum | AM | --- | --- | 5 | --- | --- | --- | 0 | --- | --- | --- | 0 | 3 | 1 | --- | 1 | --- | 11 |
| | PM | --- | --- | 10 | --- | --- | --- | 1 | --- | --- | --- | 0 | 4 | 1 | --- | 2 | --- | 19 |
| | SAT | --- | --- | 12 | --- | --- | --- | 1 | --- | --- | --- | 0 | 5 | 1 | --- | 3 | --- | 21 |
| Existing AM Peak Hour | 7:30 AM | 0 | 77 | 599 | 9 | 0 | 15 | 43 | 75 | 0 | 23 | 528 | 108 | 0 | 166 | 31 | 64 | 1738 |
| Existing PM Peak Hour | 5:00 PM | 0 | 56 | 501 | 8 | 0 | 14 | 32 | 44 | 0 | 47 | 583 | 101 | 0 | 111 | 24 | 70 | 1591 |
| Existing Sat Peak Hour | 12:30 PM | 0 | 36 | 374 | 1 | 0 | 2 | 9 | 14 | 0 | 21 | 339 | 47 | 0 | 88 | 19 | 40 | 990 |
| AM Adjusted Flow Rate | 0.831 | --- | 93 | 721 | 11 | --- | 18 | 52 | 90 | --- | 28 | 636 | 130 | --- | 200 | 37 | 77 | 2092 |
| PM Adjusted Flow Rate | 0.963 | --- | 58 | 520 | 8 | --- | 15 | 33 | 46 | --- | 49 | 605 | 105 | --- | 115 | 25 | 73 | 1652 |
| Sat Adjusted Flow Rate | 0.967 | --- | 37 | 387 | 1 | --- | 2 | 9 | 14 | --- | 22 | 351 | 49 | --- | 91 | 20 | 41 | 1024 |
| No Build AM | 1.050 | --- | 97 | 759 | 11 | --- | 19 | 54 | 95 | --- | 29 | 671 | 139 | --- | 211 | 39 | 81 | 2205 |
| No Build PM | 1.050 | --- | 61 | 551 | 9 | --- | 15 | 35 | 48 | --- | 51 | 639 | 111 | --- | 125 | 26 | 76 | 1747 |
| No Build Sat | 1.050 | --- | 39 | 409 | 1 | --- | 2 | 10 | 15 | --- | 23 | 371 | 52 | --- | 98 | 21 | 43 | 1084 |
| Build AM Peak Hour | | --- | 97 | 764 | 11 | --- | 19 | 54 | 95 | --- | 29 | 674 | 139 | --- | 212 | 39 | 81 | 2216 |
| Build PM Peak Hour | | --- | 61 | 561 | 9 | --- | 15 | 35 | 49 | --- | 52 | 643 | 112 | --- | 127 | 26 | 76 | 1766 |
| Build Sat Peak Hour | | --- | 39 | 421 | 1 | --- | 2 | 10 | 16 | --- | 23 | 376 | 53 | --- | 100 | 21 | 43 | 1105 |
| North Site Access at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| Other Planned Projects | AM | | | 3 | | | | | | | | 6 | | | | | | 9 |
| Site Generated Volum | PM | | | 8 | | | | | | | | 4 | | | | | | 12 |
| | SAT | | | 5 | | | | | | | | 4 | | | | | | 9 |
| Site Generated Volum | AM | --- | --- | 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 65 | --- | 11 | 83 |
| | PM | --- | --- | 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 27 | --- | 14 | 55 |
| | SAT | --- | --- | 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 32 | --- | 17 | 64 |
| Existing AM Peak Hour | 7:30 AM | 0 | 3 | 795 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 629 | 0 | 0 | 18 | 0 | 1 | 1446 |
| Existing PM Peak Hour | 5:00 PM | 0 | 5 | 622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 703 | 4 | 0 | 2 | 0 | 1 | 1337 |
| Existing Sat Peak Hour | 12:15 PM | 0 | 2 | 467 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 414 | 0 | 0 | 6 | 0 | 1 | 890 |
| AM Adjusted Flow Rate | 0.820 | --- | 4 | 970 | 0 | --- | 0 | 0 | 0 | --- | 0 | 767 | 0 | --- | 22 | 0 | 1 | 1764 |
| PM Adjusted Flow Rate | 0.963 | --- | 5 | 646 | 0 | --- | 0 | 0 | 0 | --- | 0 | 730 | 4 | --- | 2 | 0 | 1 | 1388 |
| Sat Adjusted Flow Rate | 0.923 | --- | 2 | 506 | 0 | --- | 0 | 0 | 0 | --- | 0 | 448 | 0 | --- | 6 | 0 | 1 | 964 |
| No Build AM | 1.050 | --- | 4 | 1021 | 0 | --- | 0 | 0 | 0 | --- | 0 | 812 | 0 | --- | 23 | 0 | 1 | 1861 |
| No Build PM | 1.050 | --- | 5 | 686 | 0 | --- | 0 | 0 | 0 | --- | 0 | 770 | 4 | --- | 2 | 0 | 1 | 1469 |
| No Build Sat | 1.050 | --- | 2 | 536 | 0 | --- | 0 | 0 | 0 | --- | 0 | 475 | 0 | --- | 7 | 0 | 1 | 1021 |
| Build AM Peak Hour | | --- | 0 | 1028 | 0 | --- | 0 | 0 | 0 | --- | 0 | 812 | 0 | --- | 65 | 0 | 11 | 1916 |
| Build PM Peak Hour | | --- | 0 | 700 | 0 | --- | 0 | 0 | 0 | --- | 0 | 770 | 0 | --- | 27 | 0 | 14 | 1511 |
| Build Sat Peak Hour | | --- | 0 | 551 | 0 | --- | 0 | 0 | 0 | --- | 0 | 475 | 0 | --- | 32 | 0 | 17 | 1075 |
| Wooleys Lane at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| Other Planned Projects | AM | | | 3 | | | | | | | | 6 | | | | | | 9 |
| Site Generated Volum | PM | | | 8 | | | | | | | | 4 | | | | | | 12 |
| | SAT | | | 5 | | | | | | | | 4 | | | | | | 9 |
| Site Generated Volum | AM | --- | --- | 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30 |
| | PM | --- | --- | 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 23 |
| | SAT | --- | --- | 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 26 |
| Existing AM Peak Hour | 7:30 AM | 0 | 0 | 799 | 76 | 0 | 77 | 0 | 39 | 0 | 32 | 590 | 0 | 0 | 0 | 0 | 0 | 1613 |
| Existing PM Peak Hour | 5:00 PM | 0 | 0 | 600 | 44 | 0 | 57 | 0 | 34 | 0 | 30 | 686 | 0 | 0 | 0 | 0 | 0 | 1451 |
| Existing Sat Peak Hour | 12:30 PM | 0 | 0 | 473 | 26 | 0 | 25 | 0 | 26 | 0 | 14 | 386 | 0 | 0 | 0 | 0 | 0 | 950 |
| AM Adjusted Flow Rate | 0.800 | --- | 0 | 999 | 95 | --- | 96 | 0 | 49 | --- | 40 | 737 | 0 | --- | 0 | 0 | 0 | 2016 |
| PM Adjusted Flow Rate | 0.950 | --- | 0 | 632 | 46 | --- | 60 | 0 | 36 | --- | 32 | 722 | 0 | --- | 0 | 0 | 0 | 1528 |
| Sat Adjusted Flow Rate | 0.935 | --- | 0 | 506 | 28 | --- | 27 | 0 | 28 | --- | 15 | 413 | 0 | --- | 0 | 0 | 0 | 1016 |
| No Build AM | 1.050 | --- | 0 | 1052 | 100 | --- | 101 | 0 | 51 | --- | 42 | 780 | 0 | --- | 0 | 0 | 0 | 2126 |
| No Build PM | 1.050 | --- | 0 | 671 | 49 | --- | 63 | 0 | 38 | --- | 33 | 763 | 0 | --- | 0 | 0 | 0 | 1616 |
| No Build Sat | 1.050 | --- | 0 | 536 | 29 | --- | 28 | 0 | 29 | --- | 16 | 437 | 0 | --- | 0 | 0 | 0 | 1076 |
| Build AM Peak Hour | | --- | 0 | 1081 | 100 | --- | 101 | 0 | 51 | --- | 42 | 780 | 0 | --- | 0 | 0 | 0 | 2155 |
| Build PM Peak Hour | | --- | 0 | 695 | 49 | --- | 63 | 0 | 38 | --- | 33 | 763 | 0 | --- | 0 | 0 | 0 | 1640 |
| Build Sat Peak Hour | | --- | 0 | 563 | 29 | --- | 28 | 0 | 29 | --- | 16 | 437 | 0 | --- | 0 | 0 | 0 | 1102 |

Hamlet: Village of Great Neck
Project No. M15-012

Growth Factor: 1.00%
No. of Years: 5
Growth Rate: 1.050

| ITE Trip Generation 186 Apartment Units | | | |
|--|----|-----|-----|
| | AM | PM | SAT |
| Enter | 19 | 75 | 49 |
| Exit | 76 | 41 | 49 |
| Total | 95 | 116 | 98 |

| ITE Trip Generation Net Change 67 Units | | | |
|--|----|----|-----|
| | AM | PM | SAT |
| Enter | 7 | 27 | 17 |
| Exit | 27 | 15 | 17 |
| Total | 34 | 42 | 34 |

| Millbrook Court at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
|--|----------|------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|-------|
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| Other Planned Projects | AM | | | 3 | | | | | | | | 6 | | | | | | 9 |
| Site Generated Volum | PM | | | 8 | | | | | | | | 4 | | | | | | 12 |
| | SAT | | | 5 | | | | | | | | 4 | | | | | | 9 |
| Site Generated Volum | AM | --- | --- | 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30 |
| | PM | --- | --- | 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 23 |
| | SAT | --- | --- | 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 26 |
| Existing AM Peak Hour | 7:45 AM | 0 | 4 | 796 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 564 | 8 | 0 | 12 | 0 | 5 | 1389 |
| Existing PM Peak Hour | 5:00 PM | 0 | 4 | 607 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 676 | 4 | 0 | 3 | 0 | 2 | 1296 |
| Existing Sat Peak Hour | 12:15 PM | 0 | 7 | 452 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 399 | 0 | 0 | 7 | 0 | 5 | 870 |
| AM Adjusted Flow Rate | 0.843 | --- | 5 | 944 | 0 | --- | 0 | 0 | 0 | --- | 0 | 669 | 9 | --- | 14 | 0 | 6 | 1648 |
| PM Adjusted Flow Rate | 0.947 | --- | 4 | 641 | 0 | --- | 0 | 0 | 0 | --- | 0 | 714 | 4 | --- | 3 | 0 | 2 | 1368 |
| Sat Adjusted Flow Rate | 0.933 | --- | 7 | 484 | 0 | --- | 0 | 0 | 0 | --- | 0 | 427 | 0 | --- | 7 | 0 | 5 | 932 |
| No Build AM | 1.050 | --- | 5 | 995 | 0 | --- | 0 | 0 | 0 | --- | 0 | 709 | 10 | --- | 15 | 0 | 6 | 1739 |
| No Build PM | 1.050 | --- | 4 | 681 | 0 | --- | 0 | 0 | 0 | --- | 0 | 753 | 4 | --- | 3 | 0 | 2 | 1448 |
| No Build Sat | 1.050 | --- | 8 | 513 | 0 | --- | 0 | 0 | 0 | --- | 0 | 453 | 0 | --- | 8 | 0 | 6 | 988 |
| Build AM Peak Hour | | --- | 2 | 1024 | 0 | --- | 0 | 0 | 0 | --- | 0 | 709 | 5 | --- | 7 | 0 | 3 | 1751 |
| Build PM Peak Hour | | --- | 2 | 704 | 0 | --- | 0 | 0 | 0 | --- | 0 | 753 | 2 | --- | 2 | 0 | 1 | 1464 |
| Build Sat Peak Hour | | --- | 4 | 540 | 0 | --- | 0 | 0 | 0 | --- | 0 | 453 | 0 | --- | 4 | 0 | 3 | 1003 |
| South Site Access at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| Other Planned Projects | AM | | | 3 | | | | | | | | 6 | | | | | | 9 |
| Site Generated Volum | PM | | | 8 | | | | | | | | 4 | | | | | | 12 |
| | SAT | | | 5 | | | | | | | | 4 | | | | | | 9 |
| Site Generated Volum | AM | --- | 18 | 23 | --- | --- | --- | --- | --- | --- | --- | --- | 1 | --- | --- | --- | --- | 42 |
| | PM | --- | 38 | 10 | --- | --- | --- | --- | --- | --- | --- | --- | 38 | --- | --- | --- | --- | 85 |
| | SAT | --- | 44 | 11 | --- | --- | --- | --- | --- | --- | --- | --- | 5 | --- | --- | --- | --- | 60 |
| Existing AM Peak Hour | 7:45 AM | 0 | 5 | 839 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 600 | 0 | 0 | 4 | 0 | 1 | 1449 |
| Existing PM Peak Hour | 5:00 PM | 0 | 0 | 637 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 678 | 2 | 0 | 0 | 0 | 0 | 1317 |
| Existing Sat Peak Hour | 12:30 PM | 0 | 1 | 446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 388 | 1 | 0 | 1 | 0 | 1 | 838 |
| AM Adjusted Flow Rate | 0.850 | --- | 6 | 987 | 0 | --- | 0 | 0 | 0 | --- | 0 | 706 | 0 | --- | 5 | 0 | 1 | 1704 |
| PM Adjusted Flow Rate | 0.949 | --- | 0 | 671 | 0 | --- | 0 | 0 | 0 | --- | 0 | 715 | 2 | --- | 0 | 0 | 0 | 1388 |
| Sat Adjusted Flow Rate | 0.899 | --- | 1 | 496 | 0 | --- | 0 | 0 | 0 | --- | 0 | 432 | 1 | --- | 1 | 0 | 1 | 932 |
| No Build AM | 1.050 | --- | 6 | 1039 | 0 | --- | 0 | 0 | 0 | --- | 0 | 747 | 0 | --- | 5 | 0 | 1 | 1798 |
| No Build PM | 1.050 | --- | 0 | 713 | 0 | --- | 0 | 0 | 0 | --- | 0 | 754 | 2 | --- | 0 | 0 | 0 | 1469 |
| No Build Sat | 1.050 | --- | 1 | 526 | 0 | --- | 0 | 0 | 0 | --- | 0 | 457 | 1 | --- | 1 | 0 | 1 | 988 |
| Build AM Peak Hour | | --- | 31 | 1062 | 0 | --- | 0 | 0 | 0 | --- | 0 | 747 | 6 | --- | 0 | 0 | 0 | 1845 |
| Build PM Peak Hour | | --- | 45 | 723 | 0 | --- | 0 | 0 | 0 | --- | 0 | 754 | 46 | --- | 0 | 0 | 0 | 1568 |
| Build Sat Peak Hour | | --- | 51 | 537 | 0 | --- | 0 | 0 | 0 | --- | 0 | 457 | 6 | --- | 0 | 0 | 0 | 1052 |
| Clover Drive at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| Other Planned Projects | AM | | 2 | 1 | | | | | | | | 4 | -8 | | -1 | | -3 | -5 |
| Site Generated Volum | PM | | -4 | 5 | | | | | | | | 2 | -2 | | 0 | | -3 | -2 |
| | SAT | | -2 | 3 | | | | | | | | 3 | 0 | | -7 | | -3 | -6 |
| Site Generated Volum | AM | --- | --- | 23 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | 23 |
| | PM | --- | --- | 10 | --- | --- | --- | --- | --- | --- | --- | 14 | --- | --- | --- | --- | --- | 23 |
| | SAT | --- | --- | 11 | --- | --- | --- | --- | --- | --- | --- | 2 | --- | --- | --- | --- | --- | 13 |
| Existing AM Peak Hour | 7:45 AM | 0 | 50 | 816 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 578 | 57 | 0 | 18 | 0 | 28 | 1547 |
| Existing PM Peak Hour | 5:00 PM | 0 | 22 | 633 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 691 | 21 | 0 | 13 | 0 | 5 | 1385 |
| Existing Sat Peak Hour | 12:30 PM | 0 | 7 | 445 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 398 | 7 | 0 | 33 | 0 | 10 | 900 |
| AM Adjusted Flow Rate | 0.873 | --- | 57 | 935 | 0 | --- | 0 | 0 | 0 | --- | 0 | 662 | 65 | --- | 21 | 0 | 32 | 1772 |
| PM Adjusted Flow Rate | 0.911 | --- | 24 | 695 | 0 | --- | 0 | 0 | 0 | --- | 0 | 758 | 23 | --- | 14 | 0 | 5 | 1520 |
| Sat Adjusted Flow Rate | 0.889 | --- | 8 | 500 | 0 | --- | 0 | 0 | 0 | --- | 0 | 448 | 8 | --- | 37 | 0 | 11 | 1012 |
| No Build AM | 1.050 | --- | 62 | 982 | 0 | --- | 0 | 0 | 0 | --- | 0 | 699 | 61 | --- | 21 | 0 | 31 | 1856 |
| No Build PM | 1.050 | --- | 21 | 734 | 0 | --- | 0 | 0 | 0 | --- | 0 | 798 | 22 | --- | 15 | 0 | 3 | 1594 |
| No Build Sat | 1.050 | --- | 6 | 528 | 0 | --- | 0 | 0 | 0 | --- | 0 | 473 | 8 | --- | 32 | 0 | 9 | 1057 |
| Build AM Peak Hour | | --- | 62 | 1005 | 0 | --- | 0 | 0 | 0 | --- | 0 | 700 | 61 | --- | 21 | 0 | 31 | 1879 |
| Build PM Peak Hour | | --- | 21 | 744 | 0 | --- | 0 | 0 | 0 | --- | 0 | 812 | 22 | --- | 15 | 0 | 3 | 1617 |
| Build Sat Peak Hour | | --- | 6 | 539 | 0 | --- | 0 | 0 | 0 | --- | 0 | 475 | 8 | --- | 32 | 0 | 9 | 1069 |

Hamlet: Village of Great Neck
 Project No. M15-012

Growth Factor: 1.00%
 No. of Years: 5
 Growth Rate: 1.050

| ITE Trip Generation 186 Apartment Units | | | |
|--|----|-----|-----|
| | AM | PM | SAT |
| Enter | 19 | 75 | 49 |
| Exit | 76 | 41 | 49 |
| Total | 95 | 116 | 98 |

| ITE Trip Generation Net Change 67 Units | | | |
|--|----|----|-----|
| | AM | PM | SAT |
| Enter | 7 | 27 | 17 |
| Exit | 27 | 15 | 17 |
| Total | 34 | 42 | 34 |

| Allenwood Road at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
|---------------------------------------|----------|------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|-------|
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| Other Planned Projects | AM | | 1 | 4 | | | | | | | | 3 | 3 | | 8 | | 4 | 23 |
| Site Generated Volum | PM | | 1 | 4 | | | | | | | | 7 | 3 | | 8 | | 4 | 27 |
| | SAT | | 1 | 3 | | | | | | | | 5 | 8 | | 5 | | 3 | 25 |
| Site Generated Volum | AM | --- | --- | 23 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | 23 |
| | PM | --- | --- | 10 | --- | --- | --- | --- | --- | --- | --- | 14 | --- | --- | --- | --- | --- | 23 |
| | SAT | --- | --- | 11 | --- | --- | --- | --- | --- | --- | --- | 2 | --- | --- | --- | --- | --- | 13 |
| Existing AM Peak Hour | 7:30 AM | 0 | 22 | 794 | 25 | 0 | 30 | 1 | 97 | 0 | 49 | 612 | 2 | 0 | 2 | 0 | 5 | 1639 |
| Existing PM Peak Hour | 5:00 PM | 0 | 23 | 599 | 11 | 0 | 12 | 0 | 42 | 0 | 77 | 730 | 10 | 0 | 6 | 4 | 4 | 1518 |
| Existing Sat Peak Hour | 12:15 PM | 0 | 9 | 486 | 5 | 0 | 8 | 0 | 31 | 0 | 53 | 382 | 4 | 0 | 4 | 1 | 3 | 986 |
| AM Adjusted Flow Rate | 0.913 | --- | 24 | 870 | 27 | --- | 33 | 1 | 106 | --- | 54 | 671 | 2 | --- | 2 | 0 | 5 | 1796 |
| PM Adjusted Flow Rate | 0.944 | --- | 24 | 635 | 12 | --- | 13 | 0 | 44 | --- | 82 | 773 | 11 | --- | 6 | 4 | 4 | 1608 |
| Sat Adjusted Flow Rate | 0.893 | --- | 10 | 544 | 6 | --- | 9 | 0 | 35 | --- | 59 | 428 | 4 | --- | 4 | 1 | 3 | 1104 |
| No Build AM | 1.050 | --- | 1 | 918 | 29 | --- | 35 | 0 | 112 | --- | 56 | 707 | 3 | --- | 8 | 0 | 4 | 1872 |
| No Build PM | 1.050 | --- | 1 | 670 | 12 | --- | 13 | 0 | 47 | --- | 86 | 819 | 3 | --- | 8 | 0 | 4 | 1663 |
| No Build Sat | 1.050 | --- | 1 | 574 | 6 | --- | 9 | 0 | 36 | --- | 62 | 454 | 8 | --- | 5 | 0 | 3 | 1160 |
| Build AM Peak Hour | | --- | 1 | 941 | 29 | --- | 35 | 0 | 112 | --- | 56 | 708 | 3 | --- | 8 | 0 | 4 | 1895 |
| Build PM Peak Hour | | --- | 1 | 680 | 12 | --- | 13 | 0 | 47 | --- | 86 | 832 | 3 | --- | 8 | 0 | 4 | 1686 |
| Build Sat Peak Hour | | --- | 1 | 585 | 6 | --- | 9 | 0 | 36 | --- | 62 | 456 | 8 | --- | 5 | 0 | 3 | 1172 |

Hamlet: Village of Great Neck
Project No. M15-012

Growth Factor: 1.00%
No. of Years: 5
Growth Rate: 1.050

| ITE Trip Generation 186 Apartment Units | | | |
|--|----|-----|-----|
| | AM | PM | SAT |
| Enter | 19 | 75 | 49 |
| Exit | 76 | 41 | 49 |
| Total | 95 | 116 | 98 |

| ITE Trip Generation Net Change 67 Units | | | |
|--|----|----|-----|
| | AM | PM | SAT |
| Enter | 7 | 27 | 17 |
| Exit | 27 | 15 | 17 |
| Total | 34 | 42 | 34 |

| Old Mill/Piccadilly Road at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
|---|---------------------|------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------------|----------------|
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| AM Peak Hour Distribution | Entering Exiting | 73% | | | | 6% | | | | 1% | 12% | 2% | 16% | | | | 95% 15% | |
| PM Peak Hour Distribution | Entering Exiting | 39% | | | | 3% | | | | 2% | 29% | 5% | 9% | | | | 50% 35% | |
| Saturday Peak Hour Distribution | Entering Exiting | 69% | | | | 5% | | | | 2% | 29% | 5% | 15% | | | | 90% 35% | |
| Site Generated Volume | AM PM SAT | --- | --- | 5.1 | --- | --- | --- | --- | 0.4 | --- | 0.2 | 3.3 | 0.5 | --- | 1.1 | --- | --- | 11 19 21 |
| | | --- | --- | 10.4 | --- | --- | --- | --- | 0.8 | --- | 0.3 | 4.3 | 0.7 | --- | 2.3 | --- | --- | |
| | | --- | --- | 11.8 | --- | --- | --- | --- | 0.9 | --- | 0.3 | 4.9 | 0.8 | --- | 2.6 | --- | --- | |
| North Site Access at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| AM Peak Hour Distribution | Entering Exiting | 95% | | | | | | | | | | | | 85% | | 15% | | 95% 100% |
| PM Peak Hour Distribution | Entering Exiting | 50% | | | | | | | | | | | | 65% | | 35% | | 50% 100% |
| Saturday Peak Hour Distribution | Entering Exiting | 90% | | | | | | | | | | | | 65% | | 35% | | 90% 100% |
| Site Generated Volume | AM PM SAT | --- | --- | 6.7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 64.6 | --- | 11.4 | 83 55 64 |
| | | --- | --- | 13.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 26.7 | --- | 14.4 | |
| | | --- | --- | 15.3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 31.9 | --- | 17.2 | |
| Wooleys Lane at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| AM Peak Hour Distribution | Entering Exiting | 95% | | | | | | | | | | | | | | | | 95% 85% |
| PM Peak Hour Distribution | Entering Exiting | 50% | | | | | | | | | | | | | | | | 50% 65% |
| Saturday Peak Hour Distribution | Entering Exiting | 90% | | | | | | | | | | | | | | | | 90% 65% |
| Site Generated Volume | AM PM SAT | --- | --- | 29.6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30 23 26 |
| | | --- | --- | 23.3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | | --- | --- | 26.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Millbrook Court at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| AM Peak Hour Distribution | Entering Exiting | 95% | | | | | | | | | | | | | | | | 95% 85% |
| PM Peak Hour Distribution | Entering Exiting | 50% | | | | | | | | | | | | | | | | 50% 65% |
| Saturday Peak Hour Distribution | Entering Exiting | 90% | | | | | | | | | | | | | | | | 90% 65% |
| Site Generated Volume | AM PM SAT | --- | --- | 29.6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30 23 26 |
| | | --- | --- | 23.3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | | --- | --- | 26.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| South Site Access at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| AM Peak Hour Distribution | Entering Exiting | 95% | | 85% | | | | | | | | | | 5% | | | | 100% 85% |
| PM Peak Hour Distribution | Entering Exiting | 50% | | 65% | | | | | | | | | | 50% | | | | 100% 65% |
| Saturday Peak Hour Distribution | Entering Exiting | 90% | | 65% | | | | | | | | | | 10% | | | | 100% 65% |
| Site Generated Volume | AM PM SAT | --- | 18.1 | 23.0 | --- | --- | --- | --- | --- | --- | --- | --- | 1.0 | --- | --- | --- | --- | 42 85 60 |
| | | --- | 37.5 | 9.8 | --- | --- | --- | --- | --- | --- | --- | --- | 37.5 | --- | --- | --- | --- | |
| | | --- | 44.1 | 11.1 | --- | --- | --- | --- | --- | --- | --- | --- | 4.9 | --- | --- | --- | --- | |

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Growth Factor: 1.00%
 No. of Years: 5
 Growth Rate: 1.050

| ITE Trip Generation 186 Apartment Units | | | |
|--|----|-----|-----|
| | AM | PM | SAT |
| Enter | 19 | 75 | 49 |
| Exit | 76 | 41 | 49 |
| Total | 95 | 116 | 98 |

| ITE Trip Generation Net Change 67 Units | | | |
|--|----|----|-----|
| | AM | PM | SAT |
| Enter | 7 | 27 | 17 |
| Exit | 27 | 15 | 17 |
| Total | 34 | 42 | 34 |

| Clover Drive at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
|---------------------------------------|----------|------------|-------|---------|------|-----------|-------|---------|------|------------|-------|---------|------|-----------|-------|---------|------|-------|
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| AM Peak Hour | Entering | 85% | | | | | | | | 5% | | | | | | | | 5% |
| Distribution | Exiting | | | | | | | | | | | | | | | | | 85% |
| PM Peak Hour | Entering | 65% | | | | | | | | 50% | | | | | | | | 50% |
| Distribution | Exiting | | | | | | | | | | | | | | | | | 65% |
| Saturday Peak Hour | Entering | 65% | | | | | | | | 10% | | | | | | | | 10% |
| Distribution | Exiting | | | | | | | | | | | | | | | | | 65% |
| Site Generated Volume | AM | --- | --- | 23.0 | --- | --- | --- | --- | --- | --- | --- | 0.4 | --- | --- | --- | --- | 23 | |
| | PM | --- | --- | 9.8 | --- | --- | --- | --- | --- | --- | --- | 13.5 | --- | --- | --- | --- | 23 | |
| | SAT | --- | --- | 11.1 | --- | --- | --- | --- | --- | --- | --- | 1.7 | --- | --- | --- | --- | 13 | |
| Allenwood Road at Middle Neck Road | | Southbound | | | | Westbound | | | | Northbound | | | | Eastbound | | | | Total |
| | | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | U-Turn | Right | Through | Left | |
| AM Peak Hour | Entering | 85% | | | | | | | | 5% | | | | | | | | 5% |
| Distribution | Exiting | | | | | | | | | | | | | | | | | 85% |
| PM Peak Hour | Entering | 65% | | | | | | | | 50% | | | | | | | | 50% |
| Distribution | Exiting | | | | | | | | | | | | | | | | | 65% |
| Saturday Peak Hour | Entering | 65% | | | | | | | | 10% | | | | | | | | 10% |
| Distribution | Exiting | | | | | | | | | | | | | | | | | 65% |
| Site Generated Volume | AM | --- | --- | 23.0 | --- | --- | --- | --- | --- | --- | --- | 0.4 | --- | --- | --- | --- | 23 | |
| | PM | --- | --- | 9.8 | --- | --- | --- | --- | --- | --- | --- | 13.5 | --- | --- | --- | --- | 23 | |
| | SAT | --- | --- | 11.1 | --- | --- | --- | --- | --- | --- | --- | 1.7 | --- | --- | --- | --- | 13 | |

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Trip Generation Calculations

Proposed Development

Land Use Code: 220
 Land Use Description: Apartments
 Independent Variable: Number of Dwelling Units
 Variable: 119
 Source: Institute of Transportation Engineers, Trip Generation, 9th Edition 2012

| | Directional Distribution | Rate | Standard Deviation | Adjustment Factor | Driveway Volume |
|--------------------------|-----------------------------|-------------|-----------------------|----------------------|--------------------|
| 7-9 AM Peak Hour Enter | 20% | 0.10 | 0.00 | 1.00 | 12 |
| 7-9 AM Peak Hour Exit | <u>80%</u> | <u>0.41</u> | 0.00 | 1.00 | <u>49</u> |
| 7-9 AM Peak Hour Total | 100% | 0.51 | 0.73 | 1.00 | 61 |
| AM Peak Hour Enter | 29% | 0.16 | 0.00 | 1.00 | 19 |
| AM Peak Hour Exit | <u>71%</u> | <u>0.39</u> | 0.00 | 1.00 | <u>46</u> |
| AM Peak Hour Total | 100% | 0.55 | 0.76 | 1.00 | 65 |
| PM Peak Hour Enter | 61% | 0.41 | 0.00 | 1.00 | 49 |
| PM Peak Hour Exit | <u>39%</u> | <u>0.26</u> | 0.00 | 1.00 | <u>31</u> |
| PM Peak Hour Total | 100% | 0.67 | 0.85 | 1.00 | 80 |
| 4-6 PM Peak Hour Enter | 65% | 0.40 | 0.00 | 1.00 | 48 |
| 4-6 PM Peak Hour Exit | <u>35%</u> | <u>0.22</u> | 0.00 | 1.00 | <u>26</u> |
| 4-6 PM Peak Hour Total | 100% | 0.62 | 0.82 | 1.00 | 74 |
| Saturday Peak Hour Enter | 50% | 0.26 | 0.00 | 1.00 | 31 |
| Saturday Peak Hour Exit | <u>50%</u> | <u>0.26</u> | 0.00 | 1.00 | <u>31</u> |
| Saturday Peak Hour Total | 100% | 0.52 | 0.74 | 1.00 | 62 |

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Trip Generation Calculations

Proposed Development

Land Use Code: 220
 Land Use Description: Apartments
 Independent Variable: Number of Dwelling Units
 Variable: 186
 Source: Institute of Transportation Engineers, Trip Generation, 9th Edition 2012

| | Directional Distribution | Rate | Standard Deviation | Adjustment Factor | Driveway Volume |
|--------------------------|-----------------------------|-------------|-----------------------|----------------------|--------------------|
| 7-9 AM Peak Hour Enter | 20% | 0.10 | 0.00 | 1.00 | 19 |
| 7-9 AM Peak Hour Exit | <u>80%</u> | <u>0.41</u> | 0.00 | 1.00 | <u>76</u> |
| 7-9 AM Peak Hour Total | 100% | 0.51 | 0.73 | 1.00 | 95 |
| AM Peak Hour Enter | 29% | 0.16 | 0.00 | 1.00 | 30 |
| AM Peak Hour Exit | <u>71%</u> | <u>0.39</u> | 0.00 | 1.00 | <u>73</u> |
| AM Peak Hour Total | 100% | 0.55 | 0.76 | 1.00 | 102 |
| PM Peak Hour Enter | 61% | 0.41 | 0.00 | 1.00 | 76 |
| PM Peak Hour Exit | <u>39%</u> | <u>0.26</u> | 0.00 | 1.00 | <u>49</u> |
| PM Peak Hour Total | 100% | 0.67 | 0.85 | 1.00 | 125 |
| 4-6 PM Peak Hour Enter | 65% | 0.40 | 0.00 | 1.00 | 75 |
| 4-6 PM Peak Hour Exit | <u>35%</u> | <u>0.22</u> | 0.00 | 1.00 | <u>40</u> |
| 4-6 PM Peak Hour Total | 100% | 0.62 | 0.82 | 1.00 | 115 |
| Saturday Peak Hour Enter | 50% | 0.26 | 0.00 | 1.00 | 48 |
| Saturday Peak Hour Exit | <u>50%</u> | <u>0.26</u> | 0.00 | 1.00 | <u>48</u> |
| Saturday Peak Hour Total | 100% | 0.52 | 0.74 | 1.00 | 97 |

Hamlet: Village of Great Neck
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Trip Generation Calculations

Proposed Development

Land Use Code: 220
 Land Use Description: Apartments
 Independent Variable: Number of Dwelling Units
 Variable: 67
 Source: Institute of Transportation Engineers, Trip Generation, 9th Edition 2012

| | Directional Distribution | Rate | Standard Deviation | Adjustment Factor | Driveway Volume |
|--------------------------|--------------------------|-------------|--------------------|-------------------|-----------------|
| 7-9 AM Peak Hour Enter | 20% | 0.10 | 0.00 | 1.00 | 7 |
| 7-9 AM Peak Hour Exit | <u>80%</u> | <u>0.41</u> | 0.00 | 1.00 | <u>27</u> |
| 7-9 AM Peak Hour Total | 100% | 0.51 | 0.73 | 1.00 | 34 |
| AM Peak Hour Enter | 29% | 0.16 | 0.00 | 1.00 | 11 |
| AM Peak Hour Exit | <u>71%</u> | <u>0.39</u> | 0.00 | 1.00 | <u>26</u> |
| AM Peak Hour Total | 100% | 0.55 | 0.76 | 1.00 | 37 |
| PM Peak Hour Enter | 61% | 0.41 | 0.00 | 1.00 | 27 |
| PM Peak Hour Exit | <u>39%</u> | <u>0.26</u> | 0.00 | 1.00 | <u>18</u> |
| PM Peak Hour Total | 100% | 0.67 | 0.85 | 1.00 | 45 |
| 4-6 PM Peak Hour Enter | 65% | 0.40 | 0.00 | 1.00 | 27 |
| 4-6 PM Peak Hour Exit | <u>35%</u> | <u>0.22</u> | 0.00 | 1.00 | <u>15</u> |
| 4-6 PM Peak Hour Total | 100% | 0.62 | 0.82 | 1.00 | 42 |
| Saturday Peak Hour Enter | 50% | 0.26 | 0.00 | 1.00 | 17 |
| Saturday Peak Hour Exit | <u>50%</u> | <u>0.26</u> | 0.00 | 1.00 | <u>17</u> |
| Saturday Peak Hour Total | 100% | 0.52 | 0.74 | 1.00 | 35 |

Mulryan Engineering, P.C.

Hamlet: Village of Great Neck
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Table No. 6

| | | Parking Observations taken on: | | | | | | | | | | Average |
|--------------------------------------|------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|-----------|
| | | Tuesday, May 12, 2015 | | | | | | | | | | |
| | | NUMBER OF OCCUPIED PARKING SPACES | | | | | | | | | | |
| Parking Capacity | | 10:00 PM | 10:15 PM | 10:30 PM | 10:45 PM | 11:00 PM | 11:15 PM | 11:30 PM | | | | |
| Area No. 1 Northern Parking Lot | 20 | 8 | 8 | 8 | 9 | 10 | 13 | 13 | | | | 10 |
| Area No. 2 Southern Parking Lot | 24 | 12 | 13 | 16 | 16 | 16 | 15 | 15 | | | | 15 |
| Area No. 3 Millbrook Court | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | | | | 16 |
| Area No. 4 Millbrook Court Circle | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | | | | 11 |
| Area No. 5 Garages | 62 | x | x | x | x | x | x | x | | | | x |
| | 134 | 47 | 48 | 51 | 52 | 53 | 55 | 55 | | | | 52 |

| | | NUMBER OF AVAILABLE PARKING SPACES | | | | | | | | | | Average |
|--------------------------------------|------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|-----------|
| | | 10:00 PM | 10:15 PM | 10:30 PM | 10:45 PM | 11:00 PM | 11:15 PM | 11:30 PM | | | | |
| Area No. 1 Northern Parking Lot | 20 | 12 | 12 | 12 | 11 | 10 | 7 | 7 | | | | 10 |
| Area No. 2 Southern Parking Lot | 24 | 12 | 11 | 8 | 8 | 8 | 9 | 9 | | | | 9 |
| Area No. 3 Millbrook Court | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 |
| Area No. 4 Millbrook Court Circle | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 |
| Area No. 5 Garages | 62 | x | x | x | x | x | x | x | | | | x |
| | 134 | 25 | 24 | 21 | 20 | 19 | 17 | 17 | | | | 20 |

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Parking Observations taken on:
Tuesday, May 12, 2015

NUMBER OF OCCUPIED PARKING SPACES

| Parking Capacity | 10:00 PM | 10:15 PM | 10:30 PM | 10:45 PM | 11:00 PM | 11:15 PM | 11:30 PM | | | | | Average | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|---------|--|-----------|
| | | | | | | | | | | | | | | |
| Area No. 6 Middle Neck west side between N Driveway and Millbrook | 8 | 8 | 9 | 9 | 9 | 10 | 10 | | | | | | | 9 |
| Area No. 7 Middle Neck west side between Millbrook and S Driveway | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | 3 |
| Area No. 8 Middle Neck west side between S Driveway and Clover | 3 | 4 | 3 | 3 | 3 | 3 | 3 | | | | | | | 3 |
| Area No. 9 Middle Neck east side between Piccadilly and Wooley | 6 | 7 | 7 | 7 | 7 | 6 | 6 | | | | | | | 7 |
| Area No. 10 Middle Neck east side between Wooley and S Driveway | 10 | 11 | 10 | 10 | 10 | 10 | 10 | | | | | | | 10 |
| Area No. 11 Middle Neck east side between S Driveway and Allenwood | 24 | 22 | 22 | 22 | 22 | 23 | 23 | | | | | | | 22 |
| | 54 | 55 | 54 | 54 | 54 | 55 | 55 | | | | | | | 55 |

NUMBER OF AVAILABLE PARKING SPACES

| Parking Capacity | 10:00 PM | 10:15 PM | 10:30 PM | 10:45 PM | 11:00 PM | 11:15 PM | 11:30 PM | | | | | Average | | |
|--|-----------|----------|----------|----------|----------|----------|----------|--|--|--|--|---------|--|----------|
| | | | | | | | | | | | | | | |
| Area No. 6 Middle Neck west side between N Driveway and Millbrook | 8 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| Area No. 7 Middle Neck west side between Millbrook and S Driveway | 3 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| Area No. 8 Middle Neck west side between S Driveway and Clover | 3 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| Area No. 9 Middle Neck east side between Piccadilly and Wooley | 6 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| Area No. 10 Middle Neck east side between Wooley and S Driveway | 10 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| Area No. 11 Middle Neck east side between S Driveway and Allenwood | 24 | 2 | 2 | 2 | 2 | 1 | 1 | | | | | | | 2 |
| | 54 | 2 | 2 | 2 | 2 | 1 | 1 | | | | | | | 2 |

SECTION NO. 04 INTERSECTION CAPACITY ANALYSIS

HIGHWAY CAPACITY ANALYSIS

DESCRIPTION

The level of service and capacity analysis prepared for this project is based on the methodologies presented in the Highway Capacity Manual (HCM 2000), published by the Transportation Research Board. The manual provides a consistent system of techniques for the evaluation of the quality of service on highway and street facilities. The following information is contained within Chapters 10, 16 and 17 of the Highway Capacity Manual.

SIGNALIZED INTERSECTIONS

CAPACITY

Capacity at intersections is defined for each lane group. The lane group capacity is the maximum hourly rate at which vehicles can reasonably be expected to pass through the intersection under prevailing traffic, roadway, and signalization conditions. The flow rate is generally measured or projected for a peak 15-minute period, and capacity is stated in vehicles per hour (vehicles per hour). Traffic conditions include volumes on each approach, the distribution of vehicles by movement (left, through, and right), the vehicle type distribution within each movement, the location and use of bus stops within the intersection area, pedestrian crossing flows, and parking movements on approaches to the intersection. Roadway conditions include the basic geometrics of the intersection, including the number and width of lanes, grades, and lane use allocations (including parking lanes). Signalization conditions include a full definition of the signal phasing, timing, and type of control, and an evaluation of signal progression for each lane group. The analysis of capacity at signalized intersections focuses on the computation of saturation flow rates, capacities, volume to capacity ratios, and level of service for lane groups.

LEVEL OF SERVICE

Level of service for signalized intersections is defined in terms of control delay, which is a measure of driver discomfort, frustration, fuel consumption, and increased travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions: in the absence of traffic control, geometric delay, any incidents, and any other vehicles. Specifically, LOS criteria for traffic signals are stated in terms of the average control delay per vehicle, typically for a 15-minute analysis period. Delay is a complex measure and depends on a number of variables, including the quality of progression, the cycle length, the green ratio, and the volume to capacity ratio for the lane group. The critical volume to capacity ratio is an approximate indicator of the overall sufficiency of an intersection. The critical volume to capacity ratio depends on the conflicting critical lane flow rates and the signal phasing.

The average back of queue is another performance measure that is used to analyze a signalized intersection. The back of queue is the number of vehicles that are queued depending on arrival patterns of vehicles and vehicles that do not clear the intersection during a given green phase.

Levels of service are defined to represent reasonable ranges in control delay.

LOS A describes operations with low control delay, up to **10** seconds per vehicle. This LOS occurs when progression is extremely favorable and most vehicles arrive during the green phase. Many vehicles do not stop at all. Short cycle lengths may tend to contribute to low delay values.

LOS B describes operations with control delay greater than **10** and up to **20** seconds per vehicle. This level generally occurs with good progression, short cycle lengths, or both. More vehicles stop than with LOS A, causing higher levels of delay.

LOS C describes operations with control delay greater than **20** and up to **35** seconds per vehicle. These higher delays may result from only fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level. Cycle failure occurs when a given green phase does not serve queued vehicles, and overflows occur. The number of vehicles stopping is significant at this level, though many still pass through the intersection without stopping.

LOS D describes operations with control delay greater than **35** and up to **55** seconds per vehicle. At LOS D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, and high volume to capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.

LOS E describes operations with control delay greater than **55** and up to **80** seconds per vehicle. These high delay values generally indicate poor progression, long cycle lengths, and high seconds per vehicle ratios. Individual cycle failures are frequent.

LOS F describes operations with control delay in excess of **80** seconds per vehicle. This level, considered unacceptable to most drivers, often occurs with over-saturation, that is, when arrival flow rates exceed the capacity of lane groups. It may also occur at high volume to capacity ratios with many individual cycle failures. Poor progression and long cycle lengths may also contribute significantly to high delay levels.

Delays in the range of LOS F (unacceptable) can occur while the volume to capacity ratio is below 1.0. Very high delays can occur at such volume to capacity ratios when some combination of the following conditions exists: the cycle length is long, the lane group in question is disadvantaged by the signal timing (has a long red time), and the signal progression for the subject movements is poor. The reverse is also possible (for a limited duration): a saturated lane group (i.e., volume to capacity ratio greater than 1.0) may have low delays if the cycle length is short, or the signal progression is favorable, or both.

Thus, the designation LOS F does not automatically imply that the intersection, approach, or lane group is over capacity, nor does an LOS better than E automatically imply that unused capacity is available.

UNIGNALIZED INTERSECTIONS

CAPACITY

At two-way stop controlled (unsignalized) intersections, drivers on the controlled approaches are required to select gaps in the major street flow through which to execute crossing or turning maneuvers on the basis of judgment. In the presence of a queue, each driver on the controlled approach must also use some time to move into the front-of-queue position and prepare to evaluate gaps in the major street flow. Thus, the capacity of the controlled legs is based on three factors: the distribution of gaps in the major street traffic stream, driver judgment in selecting gaps through which to execute the desired maneuvers, and the follow-up time required by each driver in a queue.

The basic capacity model assumes that gaps in the conflicting stream are randomly distributed. When traffic signals on the major street are within 0.25 miles of the subject intersection, flows may not be random but will likely have some platoon structure.

Pedestrians crossing an intersection impede lower-ranked minor street vehicles, but only one lane at a time. This is because vehicles performing a given through or turning movement tend to pass in front of or behind pedestrians once a driver's target lane is clear. The important factor is to determine the number of blockages. For the purpose of determining the pedestrian impedance, the pedestrian volume is the sum of individual pedestrians crossing individually and groups of pedestrians crossing together during the analysis time period.

The existence of a raised or striped median or a two-way left-turn lane (TWLTL) on the major street often causes some degree of a gap acceptance phenomenon known as "two-stage gap acceptance". For example, the existence of a raised or striped median causes a significant proportion of the minor street drivers to first cross part of the major street approach and then pause in the middle of the road to wait for another gap in the other approach. If a two-way left-turn lane exists on the major street, the minor street left-turn vehicle usually merges into the two-way left-turn lane first, then seeks a usable gap on the other approach while slowly moving some distance along the two-way left-turn lane. Both of these behaviors can increase capacity.

The geometric elements near the stop line on the stop-controlled approaches of many intersections may result in a higher capacity than the shared-lane capacity equation may predict. This is because, at such approaches, two vehicles may occupy or depart from the stop line simultaneously as a result of a large curb radius, a tapered curb, or a parking prohibition. The magnitude of this effect will depend in part on the turning movement volumes and the resultant probability of two vehicles being simultaneously at the stop line and on the storage length available to feed the second position at the stop line.

Often, two or three movements share a single lane on the minor approach. With this lane sharing, vehicles from different movements do not have simultaneous access to gaps, nor can more than one vehicle from the sharing movements use the same gap, which influences capacity.

The existence of nearby signalized intersections (i.e., traffic signals on the major street within 0.25 miles of the subject intersection) typically causes vehicles to arrive at the intersection in platoons. This influences the size and distribution of available gaps and may cause an increase in the minor street capacity. The greater the number of vehicles traveling in platoons, the higher the minor street capacity for a given opposing volume. This is due to the greater proportion of large gaps that more than one minor street vehicle can use. If signalized intersections exist upstream of the subject intersection in both directions, the effect is much more complex.

LEVEL OF SERVICE

Four measures are used to describe the performance of TWSC intersections: control delay, delay to major street through vehicles, queue length, and v/c ratio. The primary measure that is used to provide an estimate of LOS is control delay. This measure can be estimated for any movement on the minor (i.e., the stop-controlled) street. By summing delay estimates for individual movements, a delay estimate for each minor street movement and minor street approach can be achieved.

For AWSC intersections, the average control delay (in seconds per vehicle) is used as the primary measure of performance. Control delay is the increased time of travel for a vehicle approaching and passing through an AWSC intersection, compared with a free flow vehicle if it were not required to slow or stop at the intersection.

Capacity analysis at TWSC intersections depends on a clear description and understanding of the interaction of drivers on the minor or stop-controlled approach with drivers on the major street. Both gap acceptance and empirical models have been developed to describe this interaction. Procedures described in this chapter rely on a gap acceptance model developed and refined in Germany (I). The concepts from this model are described in Chapter 10. Exhibit 17-1 illustrates input to and the basic computation order of the method described in this chapter.




















Level of service (LOS) for a TWSC intersection is determined by the computed or measured control delay and is defined for each minor movement. LOS is not defined for the intersection as a whole. LOS criteria are given below:

| Level of Service Criteria for Unsignalized Intersections | |
|---|---------------------------------------|
| Level of Service | Delay (in seconds per vehicle) |
| A | ≤ 10 |
| B | > 10 and ≤ 15 |
| C | > 15 and ≤ 25 |
| D | > 25 and ≤ 35 |
| E | > 35 and ≤ 50 |
| F | > 50 |

The LOS criteria for TWSC intersections are somewhat different from the criteria used for signalized intersections primarily because different transportation facilities create different driver perceptions. The expectation is that a signalized intersection is designed to carry higher traffic volumes and experience greater delay than an unsignalized intersection.

HCM 2010 Signalized Intersection Summary
 1: Middle Neck Road & Old Mill Road

AM Peak Hour - Existing
 M15-012 - Great Neck

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  |  | |  | |  |  | | |  |  |
| Volume (veh/h) | 77 | 37 | 200 | 90 | 52 | 18 | 130 | 636 | 28 | 11 | 721 | 93 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1976 | 1900 | 1824 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 77 | 37 | 200 | 90 | 52 | 18 | 130 | 636 | 28 | 11 | 721 | 93 |
| Adj No. of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 |
| Peak Hour Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 354 | 142 | 330 | 267 | 133 | 33 | 424 | 1809 | 80 | 101 | 1606 | 205 |
| Arrive On Green | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 |
| Sat Flow, veh/h | 977 | 697 | 1615 | 602 | 654 | 159 | 654 | 3523 | 155 | 13 | 3128 | 399 |
| Grp Volume(v), veh/h | 114 | 0 | 200 | 160 | 0 | 0 | 130 | 326 | 338 | 439 | 0 | 386 |
| Grp Sat Flow(s),veh/h/ln | 1674 | 0 | 1615 | 1415 | 0 | 0 | 654 | 1805 | 1873 | 1882 | 0 | 1659 |
| Q Serve(g_s), s | 0.0 | 0.0 | 4.4 | 2.0 | 0.0 | 0.0 | 6.1 | 4.2 | 4.2 | 0.0 | 0.0 | 5.8 |
| Cycle Q Clear(g_c), s | 2.0 | 0.0 | 4.4 | 4.0 | 0.0 | 0.0 | 11.9 | 4.2 | 4.2 | 5.7 | 0.0 | 5.8 |
| Prop In Lane | 0.68 | | 1.00 | 0.56 | | 0.11 | 1.00 | | 0.08 | 0.03 | | 0.24 |
| Lane Grp Cap(c), veh/h | 497 | 0 | 330 | 433 | 0 | 0 | 424 | 927 | 962 | 1061 | 0 | 852 |
| V/C Ratio(X) | 0.23 | 0.00 | 0.61 | 0.37 | 0.00 | 0.00 | 0.31 | 0.35 | 0.35 | 0.41 | 0.00 | 0.45 |
| Avail Cap(c_a), veh/h | 1111 | 0 | 995 | 1024 | 0 | 0 | 424 | 927 | 962 | 1061 | 0 | 852 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 13.1 | 0.0 | 14.1 | 13.8 | 0.0 | 0.0 | 9.8 | 5.6 | 5.6 | 6.0 | 0.0 | 6.0 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 1.8 | 0.5 | 0.0 | 0.0 | 1.9 | 1.0 | 1.0 | 1.2 | 0.0 | 1.7 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.0 | 0.0 | 2.1 | 1.6 | 0.0 | 0.0 | 1.3 | 2.3 | 2.3 | 3.3 | 0.0 | 3.0 |
| LnGrp Delay(d),s/veh | 13.4 | 0.0 | 15.9 | 14.3 | 0.0 | 0.0 | 11.6 | 6.7 | 6.6 | 7.2 | 0.0 | 7.8 |
| LnGrp LOS | B | | B | B | | | B | A | A | A | | A |
| Approach Vol, veh/h | | 314 | | | 160 | | | 794 | | | 825 | |
| Approach Delay, s/veh | | 15.0 | | | 14.3 | | | 7.5 | | | 7.5 | |
| Approach LOS | | B | | | B | | | A | | | A | |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 25.5 | | 13.5 | | 25.5 | | 13.5 | | | | |
| Change Period (Y+Rc), s | | 5.5 | | 5.5 | | 5.5 | | 5.5 | | | | |
| Max Green Setting (Gmax), s | | 20.0 | | 24.0 | | 20.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 13.9 | | 6.4 | | 7.8 | | 6.0 | | | | |
| Green Ext Time (p_c), s | | 3.2 | | 1.5 | | 5.0 | | 1.5 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2010 Ctrl Delay | | | 9.1 | | | | | | | | | |
| HCM 2010 LOS | | | A | | | | | | | | | |

HCM Signalized Intersection Capacity Analysis
 3: Middle Neck Road & Wooleys Lane

AM Peak Hour - Existing
 M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | | | | | | |
| Volume (vph) | 49 | 96 | 737 | 40 | 95 | 999 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 16 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frt | 0.91 | | 0.99 | | | 1.00 |
| Flt Protected | 0.98 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1928 | | 3463 | | | 3475 |
| Flt Permitted | 0.98 | | 1.00 | | | 0.81 |
| Satd. Flow (perm) | 1928 | | 3463 | | | 2841 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 49 | 96 | 737 | 40 | 95 | 999 |
| RTOR Reduction (vph) | 83 | 0 | 4 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 62 | 0 | 773 | 0 | 0 | 1094 |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 6.8 | | 33.0 | | | 33.0 |
| Effective Green, g (s) | 6.8 | | 33.0 | | | 33.0 |
| Actuated g/C Ratio | 0.13 | | 0.65 | | | 0.65 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 258 | | 2249 | | | 1845 |
| v/s Ratio Prot | c0.03 | | 0.22 | | | |
| v/s Ratio Perm | | | | | | c0.39 |
| v/c Ratio | 0.24 | | 0.34 | | | 0.59 |
| Uniform Delay, d1 | 19.7 | | 4.0 | | | 5.1 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 0.5 | | 0.4 | | | 1.4 |
| Delay (s) | 20.2 | | 4.4 | | | 6.5 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 20.2 | | 4.4 | | | 6.5 |
| Approach LOS | C | | A | | | A |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 6.7 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.53 | | |
| Actuated Cycle Length (s) | 50.8 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 74.4% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
 7: Middle Neck Road & Allenwood Road

AM Peak Hour - Existing
 M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | | | | | | |
| Volume (vph) | 106 | 33 | 671 | 54 | 27 | 870 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 12 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frt | 0.97 | | 0.99 | | | 1.00 |
| Flt Protected | 0.96 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1772 | | 3451 | | | 3484 |
| Flt Permitted | 0.96 | | 1.00 | | | 0.92 |
| Satd. Flow (perm) | 1772 | | 3451 | | | 3221 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 106 | 33 | 671 | 54 | 27 | 870 |
| RTOR Reduction (vph) | 28 | 0 | 7 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 111 | 0 | 718 | 0 | 0 | 897 |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 7.1 | | 25.0 | | | 25.0 |
| Effective Green, g (s) | 7.1 | | 25.0 | | | 25.0 |
| Actuated g/C Ratio | 0.16 | | 0.58 | | | 0.58 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 291 | | 2001 | | | 1868 |
| v/s Ratio Prot | c0.06 | | 0.21 | | | |
| v/s Ratio Perm | | | | | | c0.28 |
| v/c Ratio | 0.38 | | 0.36 | | | 0.48 |
| Uniform Delay, d1 | 16.0 | | 4.8 | | | 5.3 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 0.8 | | 0.5 | | | 0.9 |
| Delay (s) | 16.9 | | 5.3 | | | 6.2 |
| Level of Service | B | | A | | | A |
| Approach Delay (s) | 16.9 | | 5.3 | | | 6.2 |
| Approach LOS | B | | A | | | A |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 6.7 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.46 | | |
| Actuated Cycle Length (s) | 43.1 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 60.6% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

Intersection

Int Delay, s/veh 0.2

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 1 | 22 | 0 | 767 | 970 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 22 | 0 | 767 | 970 | 4 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1356 | 487 | 974 0 |
| Stage 1 | 972 | - | - - |
| Stage 2 | 384 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 143 | 532 | 716 - |
| Stage 1 | 332 | - | - - |
| Stage 2 | 664 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 143 | 532 | 716 - |
| Mov Cap-2 Maneuver | 143 | - | - - |
| Stage 1 | 332 | - | - - |
| Stage 2 | 664 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 12.9 | 0 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 716 | - | 476 | - | - |
| HCM Lane V/C Ratio | - | - | 0.048 | - | - |
| HCM Control Delay (s) | 0 | - | 12.9 | - | - |
| HCM Lane LOS | A | - | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

Intersection

Int Delay, s/veh 0.3

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 6 | 14 | 9 | 669 | 944 | 5 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 6 | 14 | 9 | 669 | 944 | 5 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1300 | 475 | 949 0 |
| Stage 1 | 947 | - | - - |
| Stage 2 | 353 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 155 | 541 | 732 - |
| Stage 1 | 342 | - | - - |
| Stage 2 | 688 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 152 | 541 | 732 - |
| Mov Cap-2 Maneuver | 152 | - | - - |
| Stage 1 | 342 | - | - - |
| Stage 2 | 674 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|-----|----|
| HCM Control Delay, s | 17.6 | 0.2 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 732 | - | 306 | - | - |
| HCM Lane V/C Ratio | 0.012 | - | 0.065 | - | - |
| HCM Control Delay (s) | 10 | 0.1 | 17.6 | - | - |
| HCM Lane LOS | A | A | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

Intersection

Int Delay, s/veh 0.1

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 1 | 5 | 0 | 706 | 987 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 5 | 0 | 706 | 987 | 6 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1343 | 497 | 993 0 |
| Stage 1 | 990 | - | - - |
| Stage 2 | 353 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 146 | 524 | 704 - |
| Stage 1 | 325 | - | - - |
| Stage 2 | 688 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 146 | 524 | 704 - |
| Mov Cap-2 Maneuver | 146 | - | - - |
| Stage 1 | 325 | - | - - |
| Stage 2 | 688 | - | - - |

| Approach | EB | NB | SB |
|----------------------|----|----|----|
| HCM Control Delay, s | 15 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 704 | - | 366 | - | - |
| HCM Lane V/C Ratio | - | - | 0.016 | - | - |
| HCM Control Delay (s) | 0 | - | 15 | - | - |
| HCM Lane LOS | A | - | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

| Intersection | |
|------------------|-----|
| Int Delay, s/veh | 1.8 |

| Movement | NBL | NBT | SBT | SBR | NEL | NER |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 65 | 662 | 935 | 57 | 32 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 65 | 662 | 935 | 57 | 32 | 21 |



















| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 992 | 0 | 1425 |
| Stage 1 | - | - | 964 |
| Stage 2 | - | - | 461 |
| Critical Hdwy | 4.1 | - | 6.8 |
| Critical Hdwy Stg 1 | - | - | 5.8 |
| Critical Hdwy Stg 2 | - | - | 5.8 |
| Follow-up Hdwy | 2.2 | - | 3.5 |
| Pot Cap-1 Maneuver | 705 | - | 129 |
| Stage 1 | - | - | 335 |
| Stage 2 | - | - | 607 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 705 | - | 110 |
| Mov Cap-2 Maneuver | - | - | 110 |
| Stage 1 | - | - | 335 |
| Stage 2 | - | - | 518 |

| Approach | NB | SB | NE |
|----------------------|-----|----|------|
| HCM Control Delay, s | 1.5 | 0 | 38.3 |
| HCM LOS | | | E |

| Minor Lane/Major Mvmt | NELn1 | NBL | NBT | SBT | SBR |
|-----------------------|-------|-------|-----|-----|-----|
| Capacity (veh/h) | 160 | 705 | - | - | - |
| HCM Lane V/C Ratio | 0.331 | 0.092 | - | - | - |
| HCM Control Delay (s) | 38.3 | 10.6 | 0.6 | - | - |
| HCM Lane LOS | E | B | A | - | - |
| HCM 95th %tile Q(veh) | 1.4 | 0.3 | - | - | - |

HCM 2010 Signalized Intersection Summary
 1: Middle Neck Road & Old Mill Road

PM Peak Hour - Existing
 M15-012 - Great Neck

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  |  | |  | |  |  | | |  | |
| Volume (veh/h) | 73 | 25 | 115 | 46 | 33 | 15 | 105 | 605 | 49 | 8 | 520 | 58 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1976 | 1900 | 1824 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 73 | 25 | 115 | 46 | 33 | 15 | 105 | 605 | 49 | 8 | 520 | 58 |
| Adj No. of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 |
| Peak Hour Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 369 | 104 | 322 | 252 | 162 | 52 | 529 | 1748 | 141 | 101 | 1648 | 181 |
| Arrive On Green | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| Sat Flow, veh/h | 1038 | 523 | 1615 | 570 | 813 | 263 | 815 | 3383 | 274 | 11 | 3189 | 351 |
| Grp Volume(v), veh/h | 98 | 0 | 115 | 94 | 0 | 0 | 105 | 322 | 332 | 311 | 0 | 275 |
| Grp Sat Flow(s),veh/h/ln | 1561 | 0 | 1615 | 1646 | 0 | 0 | 815 | 1805 | 1852 | 1884 | 0 | 1667 |
| Q Serve(g_s), s | 0.2 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 3.3 | 4.1 | 4.1 | 0.0 | 0.0 | 3.7 |
| Cycle Q Clear(g_c), s | 1.8 | 0.0 | 2.4 | 1.6 | 0.0 | 0.0 | 7.0 | 4.1 | 4.1 | 3.7 | 0.0 | 3.7 |
| Prop In Lane | 0.74 | | 1.00 | 0.49 | | 0.16 | 1.00 | | 0.15 | 0.03 | | 0.21 |
| Lane Grp Cap(c), veh/h | 473 | 0 | 322 | 466 | 0 | 0 | 529 | 933 | 957 | 1069 | 0 | 861 |
| V/C Ratio(X) | 0.21 | 0.00 | 0.36 | 0.20 | 0.00 | 0.00 | 0.20 | 0.35 | 0.35 | 0.29 | 0.00 | 0.32 |
| Avail Cap(c_a), veh/h | 1097 | 0 | 1001 | 1120 | 0 | 0 | 529 | 933 | 957 | 1069 | 0 | 861 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 13.1 | 0.0 | 13.4 | 13.1 | 0.0 | 0.0 | 7.4 | 5.5 | 5.5 | 5.4 | 0.0 | 5.4 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 0.7 | 0.2 | 0.0 | 0.0 | 0.8 | 1.0 | 1.0 | 0.7 | 0.0 | 1.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 0.0 | 1.1 | 0.9 | 0.0 | 0.0 | 0.9 | 2.2 | 2.3 | 2.1 | 0.0 | 1.9 |
| LnGrp Delay(d),s/veh | 13.3 | 0.0 | 14.0 | 13.3 | 0.0 | 0.0 | 8.3 | 6.5 | 6.5 | 6.1 | 0.0 | 6.4 |
| LnGrp LOS | B | | B | B | | | A | A | A | A | | A |
| Approach Vol, veh/h | | 213 | | | 94 | | | 759 | | | 586 | |
| Approach Delay, s/veh | | 13.7 | | | 13.3 | | | 6.8 | | | 6.2 | |
| Approach LOS | | B | | | B | | | A | | | A | |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 25.5 | | 13.2 | | 25.5 | | 13.2 | | | | |
| Change Period (Y+Rc), s | | 5.5 | | 5.5 | | 5.5 | | 5.5 | | | | |
| Max Green Setting (Gmax), s | | 20.0 | | 24.0 | | 20.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 9.0 | | 4.4 | | 5.7 | | 3.6 | | | | |
| Green Ext Time (p_c), s | | 3.7 | | 0.9 | | 4.1 | | 0.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2010 Ctrl Delay | | | 7.8 | | | | | | | | | |
| HCM 2010 LOS | | | A | | | | | | | | | |

HCM Signalized Intersection Capacity Analysis

3: Middle Neck Road & Wooleys Lane

PM Peak Hour - Existing
M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | | | | | | |
| Volume (vph) | 36 | 60 | 722 | 32 | 46 | 632 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 16 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frt | 0.92 | | 0.99 | | | 1.00 |
| Flt Protected | 0.98 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1935 | | 3467 | | | 3478 |
| Flt Permitted | 0.98 | | 1.00 | | | 0.87 |
| Satd. Flow (perm) | 1935 | | 3467 | | | 3051 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 36 | 60 | 722 | 32 | 46 | 632 |
| RTOR Reduction (vph) | 54 | 0 | 3 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 42 | 0 | 751 | 0 | 0 | 678 |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 4.9 | | 35.5 | | | 35.5 |
| Effective Green, g (s) | 4.9 | | 35.5 | | | 35.5 |
| Actuated g/C Ratio | 0.10 | | 0.69 | | | 0.69 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 184 | | 2394 | | | 2107 |
| v/s Ratio Prot | c0.02 | | 0.22 | | | |
| v/s Ratio Perm | | | | | | c0.22 |
| v/c Ratio | 0.23 | | 0.31 | | | 0.32 |
| Uniform Delay, d1 | 21.5 | | 3.1 | | | 3.2 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 0.6 | | 0.3 | | | 0.4 |
| Delay (s) | 22.1 | | 3.5 | | | 3.6 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 22.1 | | 3.5 | | | 3.6 |
| Approach LOS | C | | A | | | A |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 4.7 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.31 | | |
| Actuated Cycle Length (s) | 51.4 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 60.2% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
7: Middle Neck Road & Allenwood Road

PM Peak Hour - Existing
M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|-------|------|------|------|
| Lane Configurations | | | | | | |
| Volume (vph) | 44 | 13 | 773 | 82 | 12 | 635 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 12 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frt | 0.97 | | 0.99 | | | 1.00 |
| Flt Protected | 0.96 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1773 | | 3439 | | | 3486 |
| Flt Permitted | 0.96 | | 1.00 | | | 0.94 |
| Satd. Flow (perm) | 1773 | | 3439 | | | 3275 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 44 | 13 | 773 | 82 | 12 | 635 |
| RTOR Reduction (vph) | 12 | 0 | 7 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 45 | 0 | 848 | 0 | 0 | 647 |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 3.3 | | 30.9 | | | 30.9 |
| Effective Green, g (s) | 3.3 | | 30.9 | | | 30.9 |
| Actuated g/C Ratio | 0.07 | | 0.68 | | | 0.68 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 129 | | 2350 | | | 2238 |
| v/s Ratio Prot | c0.03 | | c0.25 | | | |
| v/s Ratio Perm | | | | | | 0.20 |
| v/c Ratio | 0.35 | | 0.36 | | | 0.29 |
| Uniform Delay, d1 | 19.9 | | 3.0 | | | 2.8 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 1.6 | | 0.4 | | | 0.3 |
| Delay (s) | 21.6 | | 3.4 | | | 3.1 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 21.6 | | 3.4 | | | 3.1 |
| Approach LOS | C | | A | | | A |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 4.0 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.36 | | |
| Actuated Cycle Length (s) | 45.2 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 41.9% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

Intersection

Int Delay, s/veh 0

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 1 | 2 | 4 | 730 | 646 | 5 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 2 | 4 | 730 | 646 | 5 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1022 | 326 | 651 0 |
| Stage 1 | 649 | - | - - |
| Stage 2 | 373 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 235 | 676 | 945 - |
| Stage 1 | 487 | - | - - |
| Stage 2 | 672 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 233 | 676 | 945 - |
| Mov Cap-2 Maneuver | 233 | - | - - |
| Stage 1 | 487 | - | - - |
| Stage 2 | 667 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 13.8 | 0 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 945 | - | 414 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | 0.007 | - | - |
| HCM Control Delay (s) | 8.8 | 0 | 13.8 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

Intersection

Int Delay, s/veh 0.1

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 2 | 3 | 4 | 714 | 641 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 2 | 3 | 4 | 714 | 641 | 4 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1008 | 323 | 645 0 |
| Stage 1 | 643 | - | - - |
| Stage 2 | 365 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 240 | 679 | 950 - |
| Stage 1 | 491 | - | - - |
| Stage 2 | 679 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 238 | 679 | 950 - |
| Mov Cap-2 Maneuver | 238 | - | - - |
| Stage 1 | 491 | - | - - |
| Stage 2 | 674 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 14.4 | 0 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 950 | - | 390 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | 0.013 | - | - |
| HCM Control Delay (s) | 8.8 | 0 | 14.4 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

Intersection

Int Delay, s/veh 0

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 0 | 0 | 2 | 715 | 671 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 0 | 2 | 715 | 671 | 0 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1033 | 336 | 671 0 |
| Stage 1 | 671 | - | - - |
| Stage 2 | 362 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 232 | 666 | 929 - |
| Stage 1 | 475 | - | - - |
| Stage 2 | 681 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 231 | 666 | 929 - |
| Mov Cap-2 Maneuver | 231 | - | - - |
| Stage 1 | 475 | - | - - |
| Stage 2 | 678 | - | - - |

| Approach | EB | NB | SB |
|----------------------|----|----|----|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 929 | - | - | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | - | - |
| HCM Control Delay (s) | 8.9 | 0 | 0 | - | - |
| HCM Lane LOS | A | A | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | - | - |

| Intersection | |
|------------------|-----|
| Int Delay, s/veh | 0.4 |

| Movement | NBL | NBT | SBT | SBR | NEL | NER |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 23 | 758 | 695 | 24 | 5 | 14 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 23 | 758 | 695 | 24 | 5 | 14 |




















| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 719 | 0 | 360 |
| Stage 1 | - | - | 707 |
| Stage 2 | - | - | 425 |
| Critical Hdwy | 4.1 | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | 5.8 |
| Critical Hdwy Stg 2 | - | - | 5.8 |
| Follow-up Hdwy | 2.2 | - | 3.3 |
| Pot Cap-1 Maneuver | 892 | - | 642 |
| Stage 1 | - | - | 455 |
| Stage 2 | - | - | 633 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 892 | - | 642 |
| Mov Cap-2 Maneuver | - | - | 191 |
| Stage 1 | - | - | 455 |
| Stage 2 | - | - | 605 |

| Approach | NB | SB | NE |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.5 | 0 | 14.5 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NELn1 | NBL | NBT | SBT | SBR |
|-----------------------|-------|-------|-----|-----|-----|
| Capacity (veh/h) | 396 | 892 | - | - | - |
| HCM Lane V/C Ratio | 0.048 | 0.026 | - | - | - |
| HCM Control Delay (s) | 14.5 | 9.1 | 0.2 | - | - |
| HCM Lane LOS | B | A | A | - | - |
| HCM 95th %tile Q(veh) | 0.2 | 0.1 | - | - | - |

HCM 2010 Signalized Intersection Summary
 1: Middle Neck Road & Old Mill Road

Saturday Peak Hour - Existing
 M15-012 - Great Neck

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  |  | |  | |  |  | | |  |  |
| Volume (veh/h) | 41 | 20 | 91 | 14 | 9 | 2 | 49 | 351 | 22 | 1 | 387 | 37 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.94 | | 0.94 | 0.95 | | 0.94 | 0.91 | | 0.82 | 0.90 | | 0.82 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1976 | 1900 | 1824 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 41 | 20 | 91 | 14 | 9 | 2 | 49 | 351 | 22 | 1 | 387 | 37 |
| Adj No. of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 |
| Peak Hour Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 471 | 208 | 559 | 397 | 238 | 45 | 423 | 1385 | 86 | 74 | 1300 | 122 |
| Arrive On Green | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 |
| Sat Flow, veh/h | 944 | 563 | 1516 | 765 | 646 | 123 | 853 | 3401 | 211 | 1 | 3194 | 300 |
| Grp Volume(v), veh/h | 61 | 0 | 91 | 25 | 0 | 0 | 49 | 185 | 188 | 228 | 0 | 197 |
| Grp Sat Flow(s),veh/h/ln | 1507 | 0 | 1516 | 1534 | 0 | 0 | 853 | 1805 | 1807 | 1899 | 0 | 1596 |
| Q Serve(g_s), s | 0.1 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 | 3.3 | 3.4 | 0.0 | 0.0 | 4.1 |
| Cycle Q Clear(g_c), s | 1.0 | 0.0 | 2.0 | 0.4 | 0.0 | 0.0 | 6.1 | 3.3 | 3.4 | 4.0 | 0.0 | 4.1 |
| Prop In Lane | 0.67 | | 1.00 | 0.56 | | 0.08 | 1.00 | | 0.12 | 0.00 | | 0.19 |
| Lane Grp Cap(c), veh/h | 678 | 0 | 559 | 680 | 0 | 0 | 423 | 735 | 736 | 847 | 0 | 650 |
| V/C Ratio(X) | 0.09 | 0.00 | 0.16 | 0.04 | 0.00 | 0.00 | 0.12 | 0.25 | 0.26 | 0.27 | 0.00 | 0.30 |
| Avail Cap(c_a), veh/h | 856 | 0 | 741 | 859 | 0 | 0 | 423 | 735 | 736 | 847 | 0 | 650 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 10.1 | 0.0 | 10.4 | 9.9 | 0.0 | 0.0 | 11.9 | 9.6 | 9.6 | 9.8 | 0.0 | 9.8 |
| Incr Delay (d2), s/veh | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.8 | 0.8 | 0.8 | 0.0 | 1.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 0.0 | 0.8 | 0.2 | 0.0 | 0.0 | 0.5 | 1.8 | 1.8 | 2.3 | 0.0 | 2.0 |
| LnGrp Delay(d),s/veh | 10.2 | 0.0 | 10.5 | 9.9 | 0.0 | 0.0 | 12.5 | 10.4 | 10.5 | 10.6 | 0.0 | 11.0 |
| LnGrp LOS | B | | B | A | | | B | B | B | B | | B |
| Approach Vol, veh/h | | 152 | | | 25 | | | 422 | | | 425 | |
| Approach Delay, s/veh | | 10.4 | | | 9.9 | | | 10.7 | | | 10.8 | |
| Approach LOS | | B | | | A | | | B | | | B | |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 25.5 | | 23.6 | | 25.5 | | 23.6 | | | | |
| Change Period (Y+Rc), s | | 5.5 | | 5.5 | | 5.5 | | 5.5 | | | | |
| Max Green Setting (Gmax), s | | 20.0 | | 24.0 | | 20.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 8.1 | | 4.0 | | 6.1 | | 2.4 | | | | |
| Green Ext Time (p_c), s | | 2.3 | | 0.5 | | 2.4 | | 0.5 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2010 Ctrl Delay | | | 10.7 | | | | | | | | | |
| HCM 2010 LOS | | | B | | | | | | | | | |

HCM Signalized Intersection Capacity Analysis

3: Middle Neck Road & Wooleys Lane

Saturday Peak Hour - Existing
M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | ↔ | | ↑↓ | | | ↔ |
| Volume (vph) | 28 | 27 | 413 | 15 | 28 | 506 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 16 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frbp, ped/bikes | 0.93 | | 1.00 | | | 1.00 |
| Flpb, ped/bikes | 1.00 | | 1.00 | | | 1.00 |
| Frt | 0.93 | | 0.99 | | | 1.00 |
| Flt Protected | 0.98 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1824 | | 3457 | | | 3467 |
| Flt Permitted | 0.98 | | 1.00 | | | 0.92 |
| Satd. Flow (perm) | 1824 | | 3457 | | | 3211 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 28 | 27 | 413 | 15 | 28 | 506 |
| RTOR Reduction (vph) | 25 | 0 | 2 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 30 | 0 | 426 | 0 | 0 | 534 |
| Confl. Peds. (#/hr) | 150 | 200 | | 150 | 200 | |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 3.3 | | 38.8 | | | 38.8 |
| Effective Green, g (s) | 3.3 | | 38.8 | | | 38.8 |
| Actuated g/C Ratio | 0.06 | | 0.73 | | | 0.73 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 113 | | 2526 | | | 2346 |
| v/s Ratio Prot | c0.02 | | 0.12 | | | |
| v/s Ratio Perm | | | | | | c0.17 |
| v/c Ratio | 0.26 | | 0.17 | | | 0.23 |
| Uniform Delay, d1 | 23.7 | | 2.2 | | | 2.3 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 1.2 | | 0.1 | | | 0.2 |
| Delay (s) | 25.0 | | 2.3 | | | 2.5 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 25.0 | | 2.3 | | | 2.5 |
| Approach LOS | C | | A | | | A |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 3.7 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.23 | | |
| Actuated Cycle Length (s) | 53.1 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 64.0% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

HCM Signalized Intersection Capacity Analysis
7: Middle Neck Road & Allenwood Road

Saturday Peak Hour - Existing
M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | W | | T | | | T |
| Volume (vph) | 35 | 9 | 428 | 59 | 6 | 544 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 12 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frbp, ped/bikes | 0.99 | | 0.99 | | | 1.00 |
| Flpb, ped/bikes | 1.00 | | 1.00 | | | 1.00 |
| Frt | 0.97 | | 0.98 | | | 1.00 |
| Flt Protected | 0.96 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1762 | | 3397 | | | 3487 |
| Flt Permitted | 0.96 | | 1.00 | | | 0.95 |
| Satd. Flow (perm) | 1762 | | 3397 | | | 3317 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 35 | 9 | 428 | 59 | 6 | 544 |
| RTOR Reduction (vph) | 9 | 0 | 8 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 35 | 0 | 479 | 0 | 0 | 550 |
| Confl. Peds. (#/hr) | 25 | 50 | | 75 | 75 | |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 1.6 | | 33.4 | | | 33.4 |
| Effective Green, g (s) | 1.6 | | 33.4 | | | 33.4 |
| Actuated g/C Ratio | 0.03 | | 0.73 | | | 0.73 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 61 | | 2466 | | | 2408 |
| v/s Ratio Prot | c0.02 | | 0.14 | | | |
| v/s Ratio Perm | | | | | | c0.17 |
| v/c Ratio | 0.58 | | 0.19 | | | 0.23 |
| Uniform Delay, d1 | 21.9 | | 2.0 | | | 2.1 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 12.6 | | 0.2 | | | 0.2 |
| Delay (s) | 34.5 | | 2.2 | | | 2.3 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 34.5 | | 2.2 | | | 2.3 |
| Approach LOS | C | | A | | | A |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 3.6 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.24 | | |
| Actuated Cycle Length (s) | 46.0 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 45.9% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

Intersection

Int Delay, s/veh 0.1

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 1 | 6 | 0 | 448 | 506 | 2 |
| Conflicting Peds, #/hr | 175 | 175 | 175 | 0 | 0 | 175 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 6 | 0 | 448 | 506 | 2 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 906 | 604 | 683 0 |
| Stage 1 | 682 | - | - - |
| Stage 2 | 224 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 279 | 446 | 919 - |
| Stage 1 | 469 | - | - - |
| Stage 2 | 798 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 204 | 330 | 796 - |
| Mov Cap-2 Maneuver | 204 | - | - - |
| Stage 1 | 401 | - | - - |
| Stage 2 | 682 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 17.2 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 796 | - | 303 | - | - |
| HCM Lane V/C Ratio | - | - | 0.023 | - | - |
| HCM Control Delay (s) | 0 | - | 17.2 | - | - |
| HCM Lane LOS | A | - | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

Intersection

Int Delay, s/veh 0.3

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 5 | 7 | 0 | 427 | 484 | 7 |
| Conflicting Peds, #/hr | 225 | 200 | 200 | 0 | 0 | 225 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 5 | 7 | 0 | 427 | 484 | 7 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 927 | 671 | 716 0 |
| Stage 1 | 713 | - | - - |
| Stage 2 | 214 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 271 | 404 | 894 - |
| Stage 1 | 452 | - | - - |
| Stage 2 | 807 | - | - - |
| Platoon blocked, % | | | - |
| Mov Cap-1 Maneuver | 179 | 278 | 757 - |
| Mov Cap-2 Maneuver | 179 | - | - - |
| Stage 1 | 367 | - | - - |
| Stage 2 | 656 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 21.8 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 757 | - | 226 | - | - |
| HCM Lane V/C Ratio | - | - | 0.053 | - | - |
| HCM Control Delay (s) | 0 | - | 21.8 | - | - |
| HCM Lane LOS | A | - | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

Intersection

Int Delay, s/veh 0

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 1 | 1 | 1 | 432 | 496 | 1 |
| Conflicting Peds, #/hr | 225 | 225 | 225 | 0 | 0 | 225 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 1 | 1 | 432 | 496 | 1 |

| Major/Minor | Minor2 | Major1 | | Major2 |
|----------------------|--------|--------|-----|--------|
| Conflicting Flow All | 940 | 699 | 722 | 0 |
| Stage 1 | 722 | - | - | - |
| Stage 2 | 218 | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - |
| Pot Cap-1 Maneuver | 266 | 387 | 889 | - |
| Stage 1 | 447 | - | - | - |
| Stage 2 | 803 | - | - | - |
| Platoon blocked, % | | | | - |
| Mov Cap-1 Maneuver | 175 | 260 | 736 | - |
| Mov Cap-2 Maneuver | 175 | - | - | - |
| Stage 1 | 363 | - | - | - |
| Stage 2 | 651 | - | - | - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 22.4 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 736 | - | 209 | - | - |
| HCM Lane V/C Ratio | 0.001 | - | 0.01 | - | - |
| HCM Control Delay (s) | 9.9 | 0 | 22.4 | - | - |
| HCM Lane LOS | A | A | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

Intersection

Int Delay, s/veh 1.2

| Movement | NBL | NBT | SBT | SBR | NEL | NER |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 8 | 448 | 500 | 8 | 11 | 37 |
| Conflicting Peds, #/hr | 200 | 0 | 0 | 200 | 200 | 200 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 8 | 448 | 500 | 8 | 11 | 37 |



















| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 708 | 0 | 944 |
| Stage 1 | - | - | 704 |
| Stage 2 | - | - | 240 |
| Critical Hdwy | 4.1 | - | 6.8 |
| Critical Hdwy Stg 1 | - | - | 5.8 |
| Critical Hdwy Stg 2 | - | - | 5.8 |
| Follow-up Hdwy | 2.2 | - | 3.5 |
| Pot Cap-1 Maneuver | 900 | - | 264 |
| Stage 1 | - | - | 457 |
| Stage 2 | - | - | 783 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 763 | - | 181 |
| Mov Cap-2 Maneuver | - | - | 181 |
| Stage 1 | - | - | 381 |
| Stage 2 | - | - | 643 |

| Approach | NB | SB | NE |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.3 | 0 | 22.3 |
| HCM LOS | | | C |

| Minor Lane/Major Mvmt | NELn1 | NBL | NBT | SBT | SBR |
|-----------------------|-------|------|-----|-----|-----|
| Capacity (veh/h) | 256 | 763 | - | - | - |
| HCM Lane V/C Ratio | 0.188 | 0.01 | - | - | - |
| HCM Control Delay (s) | 22.3 | 9.8 | 0.1 | - | - |
| HCM Lane LOS | C | A | A | - | - |
| HCM 95th %tile Q(veh) | 0.7 | 0 | - | - | - |

HCM 2010 Signalized Intersection Summary
 1: Middle Neck Road & Old Mill Road

AM Peak Hour - No Build
 M15-012 - Great Neck

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  |  | |  | |  |  | | |  | |
| Volume (veh/h) | 81 | 39 | 211 | 95 | 54 | 19 | 139 | 671 | 29 | 11 | 759 | 97 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1976 | 1900 | 1824 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 81 | 39 | 211 | 95 | 54 | 19 | 139 | 671 | 29 | 11 | 759 | 97 |
| Adj No. of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 |
| Peak Hour Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 360 | 145 | 337 | 268 | 132 | 33 | 405 | 1800 | 78 | 100 | 1599 | 202 |
| Arrive On Green | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 |
| Sat Flow, veh/h | 987 | 697 | 1615 | 594 | 631 | 156 | 629 | 3526 | 152 | 12 | 3132 | 397 |
| Grp Volume(v), veh/h | 120 | 0 | 211 | 168 | 0 | 0 | 139 | 343 | 357 | 461 | 0 | 406 |
| Grp Sat Flow(s),veh/h/ln | 1684 | 0 | 1615 | 1381 | 0 | 0 | 629 | 1805 | 1873 | 1882 | 0 | 1659 |
| Q Serve(g_s), s | 0.0 | 0.0 | 4.7 | 2.3 | 0.0 | 0.0 | 7.2 | 4.5 | 4.5 | 0.0 | 0.0 | 6.2 |
| Cycle Q Clear(g_c), s | 2.1 | 0.0 | 4.7 | 4.4 | 0.0 | 0.0 | 13.4 | 4.5 | 4.5 | 6.1 | 0.0 | 6.2 |
| Prop In Lane | 0.67 | | 1.00 | 0.57 | | 0.11 | 1.00 | | 0.08 | 0.02 | | 0.24 |
| Lane Grp Cap(c), veh/h | 505 | 0 | 337 | 432 | 0 | 0 | 405 | 922 | 956 | 1055 | 0 | 847 |
| V/C Ratio(X) | 0.24 | 0.00 | 0.63 | 0.39 | 0.00 | 0.00 | 0.34 | 0.37 | 0.37 | 0.44 | 0.00 | 0.48 |
| Avail Cap(c_a), veh/h | 1107 | 0 | 989 | 1006 | 0 | 0 | 405 | 922 | 956 | 1055 | 0 | 847 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 13.1 | 0.0 | 14.1 | 13.9 | 0.0 | 0.0 | 10.6 | 5.8 | 5.8 | 6.2 | 0.0 | 6.2 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 1.9 | 0.6 | 0.0 | 0.0 | 2.3 | 1.2 | 1.1 | 1.3 | 0.0 | 1.9 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.1 | 0.0 | 2.2 | 1.7 | 0.0 | 0.0 | 1.5 | 2.5 | 2.6 | 3.6 | 0.0 | 3.3 |
| LnGrp Delay(d),s/veh | 13.3 | 0.0 | 16.0 | 14.5 | 0.0 | 0.0 | 12.9 | 6.9 | 6.9 | 7.5 | 0.0 | 8.2 |
| LnGrp LOS | B | | B | B | | | B | A | A | A | | A |
| Approach Vol, veh/h | | 331 | | | 168 | | | 839 | | | | 867 |
| Approach Delay, s/veh | | 15.0 | | | 14.5 | | | 7.9 | | | | 7.8 |
| Approach LOS | | B | | | B | | | A | | | | A |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 25.5 | | 13.7 | | 25.5 | | 13.7 | | | | |
| Change Period (Y+Rc), s | | 5.5 | | 5.5 | | 5.5 | | 5.5 | | | | |
| Max Green Setting (Gmax), s | | 20.0 | | 24.0 | | 20.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 15.4 | | 6.7 | | 8.2 | | 6.4 | | | | |
| Green Ext Time (p_c), s | | 2.7 | | 1.6 | | 5.2 | | 1.6 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2010 Ctrl Delay | | | 9.4 | | | | | | | | | |
| HCM 2010 LOS | | | A | | | | | | | | | |

HCM Signalized Intersection Capacity Analysis

3: Middle Neck Road & Wooleys Lane

AM Peak Hour - No Build
M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | | | | | | |
| Volume (vph) | 51 | 101 | 780 | 42 | 100 | 1052 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 16 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frt | 0.91 | | 0.99 | | | 1.00 |
| Flt Protected | 0.98 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1928 | | 3463 | | | 3475 |
| Flt Permitted | 0.98 | | 1.00 | | | 0.80 |
| Satd. Flow (perm) | 1928 | | 3463 | | | 2803 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 51 | 101 | 780 | 42 | 100 | 1052 |
| RTOR Reduction (vph) | 87 | 0 | 4 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 65 | 0 | 818 | 0 | 0 | 1152 |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 6.8 | | 33.0 | | | 33.0 |
| Effective Green, g (s) | 6.8 | | 33.0 | | | 33.0 |
| Actuated g/C Ratio | 0.13 | | 0.65 | | | 0.65 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 258 | | 2249 | | | 1820 |
| v/s Ratio Prot | c0.03 | | 0.24 | | | |
| v/s Ratio Perm | | | | | | c0.41 |
| v/c Ratio | 0.25 | | 0.36 | | | 0.63 |
| Uniform Delay, d1 | 19.7 | | 4.1 | | | 5.3 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 0.5 | | 0.5 | | | 1.7 |
| Delay (s) | 20.2 | | 4.5 | | | 7.0 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 20.2 | | 4.5 | | | 7.0 |
| Approach LOS | C | | A | | | A |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 7.0 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.57 | | |
| Actuated Cycle Length (s) | 50.8 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 77.7% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis

AM Peak Hour - No Build

7: Middle Neck Road & Allenwood Road

M15-012 - Great Neck



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|-------|-------|------|-------|-------|------|------|------|------|------|-------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Volume (vph) | 4 | 0 | 8 | 112 | 0 | 35 | 3 | 707 | 56 | 29 | 918 | 1 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 12 | 12 | 11 | 12 |
| Total Lost time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Lane Util. Factor | | 1.00 | | | 1.00 | | | 0.95 | | | 0.95 | |
| Frt | | 0.91 | | | 0.97 | | | 0.99 | | | 1.00 | |
| Flt Protected | | 0.98 | | | 0.96 | | | 1.00 | | | 1.00 | |
| Satd. Flow (prot) | | 1701 | | | 1771 | | | 3451 | | | 3484 | |
| Flt Permitted | | 0.98 | | | 0.96 | | | 0.95 | | | 0.92 | |
| Satd. Flow (perm) | | 1701 | | | 1771 | | | 3285 | | | 3202 | |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 4 | 0 | 8 | 112 | 0 | 35 | 3 | 707 | 56 | 29 | 918 | 1 |
| RTOR Reduction (vph) | 0 | 12 | 0 | 0 | 109 | 0 | 0 | 7 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 759 | 0 | 0 | 948 | 0 |
| Turn Type | Split | NA | | Split | NA | | Perm | NA | | Perm | NA | |
| Protected Phases | 4 | 4 | | 8 | 8 | | | 2 | | | 6 | |
| Permitted Phases | | | | | | | 2 | | | 6 | | |
| Actuated Green, G (s) | | 0.5 | | | 6.7 | | | 25.2 | | | 25.2 | |
| Effective Green, g (s) | | 0.5 | | | 6.7 | | | 25.2 | | | 25.2 | |
| Actuated g/C Ratio | | 0.01 | | | 0.14 | | | 0.52 | | | 0.52 | |
| Clearance Time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | | 3.0 | | | 3.0 | |
| Lane Grp Cap (vph) | | 17 | | | 245 | | | 1710 | | | 1667 | |
| v/s Ratio Prot | | c0.00 | | | c0.02 | | | | | | | |
| v/s Ratio Perm | | | | | | | | 0.23 | | | c0.30 | |
| v/c Ratio | | 0.01 | | | 0.16 | | | 0.44 | | | 0.57 | |
| Uniform Delay, d1 | | 23.7 | | | 18.4 | | | 7.2 | | | 7.9 | |
| Progression Factor | | 1.00 | | | 1.00 | | | 1.00 | | | 1.00 | |
| Incremental Delay, d2 | | 0.2 | | | 0.3 | | | 0.8 | | | 1.4 | |
| Delay (s) | | 23.9 | | | 18.7 | | | 8.1 | | | 9.3 | |
| Level of Service | | C | | | B | | | A | | | A | |
| Approach Delay (s) | | 23.9 | | | 18.7 | | | 8.1 | | | 9.3 | |
| Approach LOS | | C | | | B | | | A | | | A | |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 9.6 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.47 | | |
| Actuated Cycle Length (s) | 48.4 | Sum of lost time (s) | 16.0 |
| Intersection Capacity Utilization | 70.6% | ICU Level of Service | C |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

Intersection

Int Delay, s/veh 0.2

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 1 | 23 | 0 | 812 | 1021 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 23 | 0 | 812 | 1021 | 4 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1429 | 513 | 1025 0 |
| Stage 1 | 1023 | - | - - |
| Stage 2 | 406 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 128 | 512 | 685 - |
| Stage 1 | 312 | - | - - |
| Stage 2 | 647 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 128 | 512 | 685 - |
| Mov Cap-2 Maneuver | 128 | - | - - |
| Stage 1 | 312 | - | - - |
| Stage 2 | 647 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 13.4 | 0 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 685 | - | 455 | - | - |
| HCM Lane V/C Ratio | - | - | 0.053 | - | - |
| HCM Control Delay (s) | 0 | - | 13.4 | - | - |
| HCM Lane LOS | A | - | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

Intersection

Int Delay, s/veh 0.3

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 6 | 15 | 10 | 709 | 995 | 5 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 6 | 15 | 10 | 709 | 995 | 5 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1373 | 500 | 1000 0 |
| Stage 1 | 998 | - | - - |
| Stage 2 | 375 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 139 | 522 | 700 - |
| Stage 1 | 322 | - | - - |
| Stage 2 | 671 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 136 | 522 | 700 - |
| Mov Cap-2 Maneuver | 136 | - | - - |
| Stage 1 | 322 | - | - - |
| Stage 2 | 655 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|-----|----|
| HCM Control Delay, s | 18.5 | 0.2 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 700 | - | 288 | - | - |
| HCM Lane V/C Ratio | 0.014 | - | 0.073 | - | - |
| HCM Control Delay (s) | 10.2 | 0.1 | 18.5 | - | - |
| HCM Lane LOS | B | A | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

Intersection

Int Delay, s/veh 0.1

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 1 | 5 | 0 | 747 | 1039 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 5 | 0 | 747 | 1039 | 6 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1416 | 523 | 1045 0 |
| Stage 1 | 1042 | - | - - |
| Stage 2 | 374 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 131 | 504 | 673 - |
| Stage 1 | 305 | - | - - |
| Stage 2 | 672 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 131 | 504 | 673 - |
| Mov Cap-2 Maneuver | 131 | - | - - |
| Stage 1 | 305 | - | - - |
| Stage 2 | 672 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 15.7 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 673 | - | 342 | - | - |
| HCM Lane V/C Ratio | - | - | 0.018 | - | - |
| HCM Control Delay (s) | 0 | - | 15.7 | - | - |
| HCM Lane LOS | A | - | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

Intersection

Int Delay, s/veh 1.8

| Movement | NBL | NBT | SBT | SBR | NEL | NER |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 61 | 699 | 982 | 62 | 31 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 61 | 699 | 982 | 62 | 31 | 21 |




















| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1044 | 0 | 1485 |
| Stage 1 | - | - | 1013 |
| Stage 2 | - | - | 472 |
| Critical Hdwy | 4.1 | - | 6.8 |
| Critical Hdwy Stg 1 | - | - | 5.8 |
| Critical Hdwy Stg 2 | - | - | 5.8 |
| Follow-up Hdwy | 2.2 | - | 3.5 |
| Pot Cap-1 Maneuver | 674 | - | 118 |
| Stage 1 | - | - | 316 |
| Stage 2 | - | - | 600 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 674 | - | 101 |
| Mov Cap-2 Maneuver | - | - | 101 |
| Stage 1 | - | - | 316 |
| Stage 2 | - | - | 511 |

| Approach | NB | SB | NE |
|----------------------|-----|----|------|
| HCM Control Delay, s | 1.5 | 0 | 41.6 |
| HCM LOS | | | E |

| Minor Lane/Major Mvmt | NELn1 | NBL | NBT | SBT | SBR |
|-----------------------|-------|-------|-----|-----|-----|
| Capacity (veh/h) | 149 | 674 | - | - | - |
| HCM Lane V/C Ratio | 0.349 | 0.091 | - | - | - |
| HCM Control Delay (s) | 41.6 | 10.9 | 0.7 | - | - |
| HCM Lane LOS | E | B | A | - | - |
| HCM 95th %tile Q(veh) | 1.4 | 0.3 | - | - | - |

HCM 2010 Signalized Intersection Summary
 1: Middle Neck Road & Old Mill Road

PM Peak Hour - No Build
 M15-012 - Great Neck

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  |  | |  | |  |  | | |  |  |
| Volume (veh/h) | 76 | 26 | 125 | 48 | 35 | 15 | 111 | 639 | 51 | 9 | 551 | 61 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1976 | 1900 | 1824 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 76 | 26 | 125 | 48 | 35 | 15 | 111 | 639 | 51 | 9 | 551 | 61 |
| Adj No. of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 |
| Peak Hour Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 370 | 105 | 323 | 252 | 164 | 50 | 512 | 1748 | 139 | 102 | 1645 | 180 |
| Arrive On Green | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| Sat Flow, veh/h | 1039 | 522 | 1615 | 569 | 820 | 251 | 790 | 3387 | 270 | 13 | 3188 | 348 |
| Grp Volume(v), veh/h | 102 | 0 | 125 | 98 | 0 | 0 | 111 | 340 | 350 | 329 | 0 | 292 |
| Grp Sat Flow(s),veh/h/ln | 1562 | 0 | 1615 | 1640 | 0 | 0 | 790 | 1805 | 1852 | 1881 | 0 | 1668 |
| Q Serve(g_s), s | 0.2 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 3.7 | 4.4 | 4.4 | 0.0 | 0.0 | 4.0 |
| Cycle Q Clear(g_c), s | 1.8 | 0.0 | 2.6 | 1.7 | 0.0 | 0.0 | 7.7 | 4.4 | 4.4 | 3.9 | 0.0 | 4.0 |
| Prop In Lane | 0.75 | | 1.00 | 0.49 | | 0.15 | 1.00 | | 0.15 | 0.03 | | 0.21 |
| Lane Grp Cap(c), veh/h | 475 | 0 | 323 | 467 | 0 | 0 | 512 | 931 | 956 | 1066 | 0 | 860 |
| V/C Ratio(X) | 0.21 | 0.00 | 0.39 | 0.21 | 0.00 | 0.00 | 0.22 | 0.37 | 0.37 | 0.31 | 0.00 | 0.34 |
| Avail Cap(c_a), veh/h | 1095 | 0 | 1000 | 1114 | 0 | 0 | 512 | 931 | 956 | 1066 | 0 | 860 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 13.1 | 0.0 | 13.4 | 13.1 | 0.0 | 0.0 | 7.8 | 5.6 | 5.6 | 5.5 | 0.0 | 5.5 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 0.8 | 0.2 | 0.0 | 0.0 | 1.0 | 1.1 | 1.1 | 0.8 | 0.0 | 1.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 0.0 | 1.2 | 0.9 | 0.0 | 0.0 | 0.9 | 2.4 | 2.4 | 2.2 | 0.0 | 2.0 |
| LnGrp Delay(d),s/veh | 13.3 | 0.0 | 14.2 | 13.3 | 0.0 | 0.0 | 8.7 | 6.7 | 6.7 | 6.2 | 0.0 | 6.6 |
| LnGrp LOS | B | | B | B | | | A | A | A | A | | A |
| Approach Vol, veh/h | | 227 | | | 98 | | | 801 | | | 621 | |
| Approach Delay, s/veh | | 13.8 | | | 13.3 | | | 7.0 | | | 6.4 | |
| Approach LOS | | B | | | B | | | A | | | A | |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 25.5 | | 13.3 | | 25.5 | | 13.3 | | | | |
| Change Period (Y+Rc), s | | 5.5 | | 5.5 | | 5.5 | | 5.5 | | | | |
| Max Green Setting (Gmax), s | | 20.0 | | 24.0 | | 20.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 9.7 | | 4.6 | | 6.0 | | 3.7 | | | | |
| Green Ext Time (p_c), s | | 3.8 | | 0.9 | | 4.4 | | 0.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2010 Ctrl Delay | | | 8.0 | | | | | | | | | |
| HCM 2010 LOS | | | A | | | | | | | | | |

HCM Signalized Intersection Capacity Analysis

3: Middle Neck Road & Wooleys Lane

PM Peak Hour - No Build
M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | | | | | | |
| Volume (vph) | 38 | 63 | 763 | 33 | 49 | 671 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 16 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frt | 0.92 | | 0.99 | | | 1.00 |
| Flt Protected | 0.98 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1936 | | 3468 | | | 3478 |
| Flt Permitted | 0.98 | | 1.00 | | | 0.87 |
| Satd. Flow (perm) | 1936 | | 3468 | | | 3022 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 38 | 63 | 763 | 33 | 49 | 671 |
| RTOR Reduction (vph) | 55 | 0 | 3 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 46 | 0 | 793 | 0 | 0 | 720 |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 6.6 | | 33.8 | | | 33.8 |
| Effective Green, g (s) | 6.6 | | 33.8 | | | 33.8 |
| Actuated g/C Ratio | 0.13 | | 0.66 | | | 0.66 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 248 | | 2280 | | | 1987 |
| v/s Ratio Prot | c0.02 | | 0.23 | | | |
| v/s Ratio Perm | | | | | | c0.24 |
| v/c Ratio | 0.19 | | 0.35 | | | 0.36 |
| Uniform Delay, d1 | 20.0 | | 3.9 | | | 4.0 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 0.4 | | 0.4 | | | 0.5 |
| Delay (s) | 20.4 | | 4.3 | | | 4.5 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 20.4 | | 4.3 | | | 4.5 |
| Approach LOS | C | | A | | | A |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 5.4 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.33 | | |
| Actuated Cycle Length (s) | 51.4 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 62.5% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
7: Middle Neck Road & Allenwood Road

PM Peak Hour - No Build
M15-012 - Great Neck



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|-------|-------|------|-------|-------|------|------|-------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Volume (vph) | 4 | 0 | 8 | 47 | 0 | 15 | 3 | 819 | 86 | 12 | 670 | 1 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 12 | 12 | 11 | 12 |
| Total Lost time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Lane Util. Factor | | 1.00 | | | 1.00 | | | 0.95 | | | 0.95 | |
| Frt | | 0.91 | | | 0.97 | | | 0.99 | | | 1.00 | |
| Flt Protected | | 0.98 | | | 0.96 | | | 1.00 | | | 1.00 | |
| Satd. Flow (prot) | | 1701 | | | 1771 | | | 3440 | | | 3486 | |
| Flt Permitted | | 0.98 | | | 0.96 | | | 0.95 | | | 0.94 | |
| Satd. Flow (perm) | | 1701 | | | 1771 | | | 3280 | | | 3270 | |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 4 | 0 | 8 | 47 | 0 | 15 | 3 | 819 | 86 | 12 | 670 | 1 |
| RTOR Reduction (vph) | 0 | 12 | 0 | 0 | 58 | 0 | 0 | 7 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 901 | 0 | 0 | 683 | 0 |
| Turn Type | Split | NA | | Split | NA | | Perm | NA | | Perm | NA | |
| Protected Phases | 4 | 4 | | 8 | 8 | | | 2 | | | 6 | |
| Permitted Phases | | | | | | | 2 | | | 6 | | |
| Actuated Green, G (s) | | 0.5 | | | 3.1 | | | 30.6 | | | 30.6 | |
| Effective Green, g (s) | | 0.5 | | | 3.1 | | | 30.6 | | | 30.6 | |
| Actuated g/C Ratio | | 0.01 | | | 0.06 | | | 0.61 | | | 0.61 | |
| Clearance Time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | | 3.0 | | | 3.0 | |
| Lane Grp Cap (vph) | | 16 | | | 109 | | | 1999 | | | 1993 | |
| v/s Ratio Prot | | c0.00 | | | c0.00 | | | | | | | |
| v/s Ratio Perm | | | | | | | | c0.27 | | | 0.21 | |
| v/c Ratio | | 0.01 | | | 0.04 | | | 0.45 | | | 0.34 | |
| Uniform Delay, d1 | | 24.6 | | | 22.1 | | | 5.3 | | | 4.8 | |
| Progression Factor | | 1.00 | | | 1.00 | | | 1.00 | | | 1.00 | |
| Incremental Delay, d2 | | 0.2 | | | 0.1 | | | 0.7 | | | 0.5 | |
| Delay (s) | | 24.8 | | | 22.3 | | | 6.0 | | | 5.3 | |
| Level of Service | | C | | | C | | | A | | | A | |
| Approach Delay (s) | | 24.8 | | | 22.3 | | | 6.0 | | | 5.3 | |
| Approach LOS | | C | | | C | | | A | | | A | |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 6.5 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.41 | | |
| Actuated Cycle Length (s) | 50.2 | Sum of lost time (s) | 16.0 |
| Intersection Capacity Utilization | 43.9% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

Intersection

Int Delay, s/veh 0

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 1 | 2 | 4 | 770 | 686 | 5 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 2 | 4 | 770 | 686 | 5 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1082 | 346 | 691 0 |
| Stage 1 | 689 | - | - - |
| Stage 2 | 393 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 215 | 656 | 913 - |
| Stage 1 | 465 | - | - - |
| Stage 2 | 657 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 213 | 656 | 913 - |
| Mov Cap-2 Maneuver | 213 | - | - - |
| Stage 1 | 465 | - | - - |
| Stage 2 | 652 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 14.4 | 0 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 913 | - | 387 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | 0.008 | - | - |
| HCM Control Delay (s) | 9 | 0 | 14.4 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

Intersection

Int Delay, s/veh 0.1

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 2 | 3 | 4 | 753 | 681 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 2 | 3 | 4 | 753 | 681 | 4 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1068 | 343 | 685 0 |
| Stage 1 | 683 | - | - - |
| Stage 2 | 385 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 220 | 659 | 918 - |
| Stage 1 | 468 | - | - - |
| Stage 2 | 663 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 218 | 659 | 918 - |
| Mov Cap-2 Maneuver | 218 | - | - - |
| Stage 1 | 468 | - | - - |
| Stage 2 | 658 | - | - - |

| Approach | EB | NB | SB |
|----------------------|----|----|----|
| HCM Control Delay, s | 15 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 918 | - | 364 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | 0.014 | - | - |
| HCM Control Delay (s) | 8.9 | 0 | 15 | - | - |
| HCM Lane LOS | A | A | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

Intersection

Int Delay, s/veh 0

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 0 | 0 | 2 | 754 | 713 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 0 | 2 | 754 | 713 | 0 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1094 | 357 | 713 0 |
| Stage 1 | 713 | - | - - |
| Stage 2 | 381 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 212 | 645 | 896 - |
| Stage 1 | 452 | - | - - |
| Stage 2 | 666 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 211 | 645 | 896 - |
| Mov Cap-2 Maneuver | 211 | - | - - |
| Stage 1 | 452 | - | - - |
| Stage 2 | 663 | - | - - |

| Approach | EB | NB | SB |
|----------------------|----|----|----|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 896 | - | - | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | - | - |
| HCM Control Delay (s) | 9 | 0 | 0 | - | - |
| HCM Lane LOS | A | A | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | - | - |

| Intersection | |
|------------------|-----|
| Int Delay, s/veh | 0.4 |

| Movement | NBL | NBT | SBT | SBR | NEL | NER |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 22 | 798 | 734 | 21 | 3 | 15 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 22 | 798 | 734 | 21 | 3 | 15 |



















| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 755 | 0 | 1188 |
| Stage 1 | - | - | 745 |
| Stage 2 | - | - | 443 |
| Critical Hdwy | 4.1 | - | 6.8 |
| Critical Hdwy Stg 1 | - | - | 5.8 |
| Critical Hdwy Stg 2 | - | - | 5.8 |
| Follow-up Hdwy | 2.2 | - | 3.5 |
| Pot Cap-1 Maneuver | 865 | - | 184 |
| Stage 1 | - | - | 435 |
| Stage 2 | - | - | 620 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 865 | - | 176 |
| Mov Cap-2 Maneuver | - | - | 176 |
| Stage 1 | - | - | 435 |
| Stage 2 | - | - | 591 |

| Approach | NB | SB | NE |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.4 | 0 | 13.6 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NELn1 | NBL | NBT | SBT | SBR |
|-----------------------|-------|-------|-----|-----|-----|
| Capacity (veh/h) | 439 | 865 | - | - | - |
| HCM Lane V/C Ratio | 0.041 | 0.025 | - | - | - |
| HCM Control Delay (s) | 13.6 | 9.3 | 0.2 | - | - |
| HCM Lane LOS | B | A | A | - | - |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | - |

HCM 2010 Signalized Intersection Summary
 1: Middle Neck Road & Old Mill Road

Saturday Peak Hour - No Build
 M15-012 - Great Neck

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  |  | |  | |  |  | | |  | |
| Volume (veh/h) | 43 | 21 | 98 | 15 | 10 | 2 | 52 | 371 | 23 | 1 | 409 | 39 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.94 | | 0.94 | 0.95 | | 0.94 | 0.91 | | 0.82 | 0.90 | | 0.82 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1976 | 1900 | 1824 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 43 | 21 | 98 | 15 | 10 | 2 | 52 | 371 | 23 | 1 | 409 | 39 |
| Adj No. of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 |
| Peak Hour Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 471 | 208 | 560 | 394 | 245 | 42 | 413 | 1385 | 85 | 74 | 1299 | 122 |
| Arrive On Green | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 |
| Sat Flow, veh/h | 943 | 563 | 1517 | 757 | 663 | 114 | 838 | 3403 | 209 | 1 | 3194 | 300 |
| Grp Volume(v), veh/h | 64 | 0 | 98 | 27 | 0 | 0 | 52 | 195 | 199 | 241 | 0 | 208 |
| Grp Sat Flow(s),veh/h/ln | 1506 | 0 | 1517 | 1533 | 0 | 0 | 838 | 1805 | 1808 | 1899 | 0 | 1596 |
| Q Serve(g_s), s | 0.1 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 2.2 | 3.5 | 3.6 | 0.0 | 0.0 | 4.4 |
| Cycle Q Clear(g_c), s | 1.1 | 0.0 | 2.1 | 0.4 | 0.0 | 0.0 | 6.6 | 3.5 | 3.6 | 4.2 | 0.0 | 4.4 |
| Prop In Lane | 0.67 | | 1.00 | 0.56 | | 0.07 | 1.00 | | 0.12 | 0.00 | | 0.19 |
| Lane Grp Cap(c), veh/h | 679 | 0 | 560 | 680 | 0 | 0 | 413 | 734 | 735 | 846 | 0 | 649 |
| V/C Ratio(X) | 0.09 | 0.00 | 0.17 | 0.04 | 0.00 | 0.00 | 0.13 | 0.27 | 0.27 | 0.29 | 0.00 | 0.32 |
| Avail Cap(c_a), veh/h | 855 | 0 | 740 | 858 | 0 | 0 | 413 | 734 | 735 | 846 | 0 | 649 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 10.1 | 0.0 | 10.4 | 9.9 | 0.0 | 0.0 | 12.2 | 9.7 | 9.7 | 9.9 | 0.0 | 9.9 |
| Incr Delay (d2), s/veh | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.9 | 0.9 | 0.8 | 0.0 | 1.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.6 | 0.0 | 0.9 | 0.2 | 0.0 | 0.0 | 0.6 | 1.9 | 2.0 | 2.4 | 0.0 | 2.1 |
| LnGrp Delay(d),s/veh | 10.2 | 0.0 | 10.6 | 9.9 | 0.0 | 0.0 | 12.8 | 10.6 | 10.6 | 10.8 | 0.0 | 11.2 |
| LnGrp LOS | B | | B | A | | | B | B | B | B | | B |
| Approach Vol, veh/h | | 162 | | | 27 | | | 446 | | | 449 | |
| Approach Delay, s/veh | | 10.4 | | | 9.9 | | | 10.9 | | | 11.0 | |
| Approach LOS | | B | | | A | | | B | | | B | |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 25.5 | | 23.7 | | 25.5 | | 23.7 | | | | |
| Change Period (Y+Rc), s | | 5.5 | | 5.5 | | 5.5 | | 5.5 | | | | |
| Max Green Setting (Gmax), s | | 20.0 | | 24.0 | | 20.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 8.6 | | 4.1 | | 6.4 | | 2.4 | | | | |
| Green Ext Time (p_c), s | | 2.4 | | 0.5 | | 2.5 | | 0.6 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2010 Ctrl Delay | | | 10.8 | | | | | | | | | |
| HCM 2010 LOS | | | B | | | | | | | | | |

HCM Signalized Intersection Capacity Analysis
 3: Middle Neck Road & Wooleys Lane

Saturday Peak Hour - No Build
 M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | | | | | | |
| Volume (vph) | 29 | 28 | 437 | 16 | 29 | 536 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 16 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frbp, ped/bikes | 0.93 | | 1.00 | | | 1.00 |
| Flpb, ped/bikes | 1.00 | | 1.00 | | | 1.00 |
| Frt | 0.93 | | 0.99 | | | 1.00 |
| Flt Protected | 0.98 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1825 | | 3456 | | | 3468 |
| Flt Permitted | 0.98 | | 1.00 | | | 0.92 |
| Satd. Flow (perm) | 1825 | | 3456 | | | 3207 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 29 | 28 | 437 | 16 | 29 | 536 |
| RTOR Reduction (vph) | 26 | 0 | 2 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 31 | 0 | 451 | 0 | 0 | 565 |
| Confl. Peds. (#/hr) | 150 | 200 | | 150 | 200 | |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 3.3 | | 38.5 | | | 38.5 |
| Effective Green, g (s) | 3.3 | | 38.5 | | | 38.5 |
| Actuated g/C Ratio | 0.06 | | 0.73 | | | 0.73 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 114 | | 2520 | | | 2338 |
| v/s Ratio Prot | c0.02 | | 0.13 | | | |
| v/s Ratio Perm | | | | | | c0.18 |
| v/c Ratio | 0.27 | | 0.18 | | | 0.24 |
| Uniform Delay, d1 | 23.6 | | 2.2 | | | 2.4 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 1.3 | | 0.2 | | | 0.2 |
| Delay (s) | 24.9 | | 2.4 | | | 2.6 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 24.9 | | 2.4 | | | 2.6 |
| Approach LOS | C | | A | | | A |

| Intersection Summary | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 3.7 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.24 | | |
| Actuated Cycle Length (s) | 52.8 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 65.5% | ICU Level of Service | C |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

HCM Signalized Intersection Capacity Analysis
7: Middle Neck Road & Allenwood Road

Saturday Peak Hour - No Build
M15-012 - Great Neck



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|-------|-------|------|-------|-------|------|------|------|------|------|-------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Volume (vph) | 3 | 0 | 5 | 36 | 0 | 9 | 8 | 454 | 62 | 6 | 574 | 1 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 12 | 12 | 11 | 12 |
| Total Lost time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Lane Util. Factor | | 1.00 | | | 1.00 | | | 0.95 | | | 0.95 | |
| Frbp, ped/bikes | | 0.80 | | | 0.99 | | | 0.99 | | | 1.00 | |
| Flpb, ped/bikes | | 0.99 | | | 1.00 | | | 1.00 | | | 1.00 | |
| Frt | | 0.92 | | | 0.97 | | | 0.98 | | | 1.00 | |
| Flt Protected | | 0.98 | | | 0.96 | | | 1.00 | | | 1.00 | |
| Satd. Flow (prot) | | 1350 | | | 1762 | | | 3391 | | | 3485 | |
| Flt Permitted | | 0.98 | | | 0.96 | | | 0.95 | | | 0.95 | |
| Satd. Flow (perm) | | 1350 | | | 1762 | | | 3214 | | | 3314 | |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 3 | 0 | 5 | 36 | 0 | 9 | 8 | 454 | 62 | 6 | 574 | 1 |
| RTOR Reduction (vph) | 0 | 8 | 0 | 0 | 44 | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 515 | 0 | 0 | 581 | 0 |
| Confl. Peds. (#/hr) | 50 | | 25 | 25 | | 50 | 175 | | 75 | 75 | | 175 |
| Turn Type | Split | NA | | Split | NA | | Perm | NA | | Perm | NA | |
| Protected Phases | 4 | 4 | | 8 | 8 | | | 2 | | | 6 | |
| Permitted Phases | | | | | | | 2 | | | 6 | | |
| Actuated Green, G (s) | | 0.5 | | | 1.4 | | | 32.6 | | | 32.6 | |
| Effective Green, g (s) | | 0.5 | | | 1.4 | | | 32.6 | | | 32.6 | |
| Actuated g/C Ratio | | 0.01 | | | 0.03 | | | 0.65 | | | 0.65 | |
| Clearance Time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | | 3.0 | | | 3.0 | |
| Lane Grp Cap (vph) | | 13 | | | 48 | | | 2074 | | | 2139 | |
| v/s Ratio Prot | | c0.00 | | | c0.00 | | | | | | | |
| v/s Ratio Perm | | | | | | | | 0.16 | | | c0.18 | |
| v/c Ratio | | 0.01 | | | 0.03 | | | 0.25 | | | 0.27 | |
| Uniform Delay, d1 | | 24.8 | | | 23.9 | | | 3.8 | | | 3.8 | |
| Progression Factor | | 1.00 | | | 1.00 | | | 1.00 | | | 1.00 | |
| Incremental Delay, d2 | | 0.2 | | | 0.2 | | | 0.3 | | | 0.3 | |
| Delay (s) | | 24.9 | | | 24.1 | | | 4.1 | | | 4.2 | |
| Level of Service | | C | | | C | | | A | | | A | |
| Approach Delay (s) | | 24.9 | | | 24.1 | | | 4.1 | | | 4.2 | |
| Approach LOS | | C | | | C | | | A | | | A | |

| Intersection Summary | | |
|-----------------------------------|-------|---------------------------|
| HCM 2000 Control Delay | 5.0 | HCM 2000 Level of Service |
| HCM 2000 Volume to Capacity ratio | 0.26 | A |
| Actuated Cycle Length (s) | 50.5 | Sum of lost time (s) |
| Intersection Capacity Utilization | 47.5% | 16.0 |
| Analysis Period (min) | 15 | ICU Level of Service |
| c Critical Lane Group | | A |

Intersection

Int Delay, s/veh 0.1

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 1 | 7 | 0 | 475 | 536 | 2 |
| Conflicting Peds, #/hr | 175 | 175 | 175 | 0 | 0 | 175 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 7 | 0 | 475 | 536 | 2 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 950 | 619 | 713 0 |
| Stage 1 | 712 | - | - - |
| Stage 2 | 238 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 262 | 436 | 896 - |
| Stage 1 | 453 | - | - - |
| Stage 2 | 785 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 191 | 323 | 776 - |
| Mov Cap-2 Maneuver | 191 | - | - - |
| Stage 1 | 387 | - | - - |
| Stage 2 | 671 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 17.5 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 776 | - | 297 | - | - |
| HCM Lane V/C Ratio | - | - | 0.027 | - | - |
| HCM Control Delay (s) | 0 | - | 17.5 | - | - |
| HCM Lane LOS | A | - | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

Intersection

Int Delay, s/veh 0.3

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 6 | 8 | 0 | 453 | 513 | 8 |
| Conflicting Peds, #/hr | 225 | 200 | 200 | 0 | 0 | 225 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 6 | 8 | 0 | 453 | 513 | 8 |

| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 969 | 686 | 746 0 |
| Stage 1 | 742 | - | - - |
| Stage 2 | 227 | - | - - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 - |
| Critical Hdwy Stg 1 | 5.8 | - | - - |
| Critical Hdwy Stg 2 | 5.8 | - | - - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 - |
| Pot Cap-1 Maneuver | 255 | 395 | 871 - |
| Stage 1 | 437 | - | - - |
| Stage 2 | 795 | - | - - |
| Platoon blocked, % | | | - - |
| Mov Cap-1 Maneuver | 168 | 272 | 738 - |
| Mov Cap-2 Maneuver | 168 | - | - - |
| Stage 1 | 355 | - | - - |
| Stage 2 | 646 | - | - - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 22.9 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 738 | - | 215 | - | - |
| HCM Lane V/C Ratio | - | - | 0.065 | - | - |
| HCM Control Delay (s) | 0 | - | 22.9 | - | - |
| HCM Lane LOS | A | - | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

Intersection

Int Delay, s/veh 0

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 1 | 1 | 1 | 457 | 526 | 1 |
| Conflicting Peds, #/hr | 225 | 225 | 225 | 0 | 0 | 225 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 1 | 1 | 457 | 526 | 1 |

| Major/Minor | Minor2 | Major1 | | Major2 |
|----------------------|--------|--------|-----|--------|
| Conflicting Flow All | 983 | 714 | 752 | 0 |
| Stage 1 | 752 | - | - | - |
| Stage 2 | 231 | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - |
| Pot Cap-1 Maneuver | 249 | 378 | 867 | - |
| Stage 1 | 432 | - | - | - |
| Stage 2 | 792 | - | - | - |
| Platoon blocked, % | | | | - |
| Mov Cap-1 Maneuver | 164 | 254 | 718 | - |
| Mov Cap-2 Maneuver | 164 | - | - | - |
| Stage 1 | 351 | - | - | - |
| Stage 2 | 642 | - | - | - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 23.3 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 718 | - | 199 | - | - |
| HCM Lane V/C Ratio | 0.001 | - | 0.01 | - | - |
| HCM Control Delay (s) | 10 | 0 | 23.3 | - | - |
| HCM Lane LOS | B | A | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

Intersection

Int Delay, s/veh 1

| Movement | NBL | NBT | SBT | SBR | NEL | NER |
|--------------------------|------|------|------|------|------|------|
| Vol, veh/h | 8 | 473 | 528 | 6 | 9 | 32 |
| Conflicting Peds, #/hr | 200 | 0 | 0 | 200 | 200 | 200 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 8 | 473 | 528 | 6 | 9 | 32 |



















| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 734 | 0 | 984 |
| Stage 1 | - | - | 731 |
| Stage 2 | - | - | 253 |
| Critical Hdwy | 4.1 | - | 6.8 |
| Critical Hdwy Stg 1 | - | - | 5.8 |
| Critical Hdwy Stg 2 | - | - | 5.8 |
| Follow-up Hdwy | 2.2 | - | 3.5 |
| Pot Cap-1 Maneuver | 880 | - | 249 |
| Stage 1 | - | - | 443 |
| Stage 2 | - | - | 772 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 746 | - | 170 |
| Mov Cap-2 Maneuver | - | - | 170 |
| Stage 1 | - | - | 369 |
| Stage 2 | - | - | 634 |

| Approach | NB | SB | NE |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.3 | 0 | 22.3 |
| HCM LOS | | | C |

| Minor Lane/Major Mvmt | NELn1 | NBL | NBT | SBT | SBR |
|-----------------------|-------|-------|-----|-----|-----|
| Capacity (veh/h) | 249 | 746 | - | - | - |
| HCM Lane V/C Ratio | 0.165 | 0.011 | - | - | - |
| HCM Control Delay (s) | 22.3 | 9.9 | 0.1 | - | - |
| HCM Lane LOS | C | A | A | - | - |
| HCM 95th %tile Q(veh) | 0.6 | 0 | - | - | - |

HCM 2010 Signalized Intersection Summary
 1: Middle Neck Road & Old Mill Road

AM Peak Hour - Build
 M15-012 - Great Neck

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  |  | |  | |  |  | | |  | |
| Volume (veh/h) | 81 | 39 | 212 | 95 | 54 | 19 | 139 | 674 | 29 | 11 | 764 | 97 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1976 | 1900 | 1824 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 81 | 39 | 212 | 95 | 54 | 19 | 139 | 674 | 29 | 11 | 764 | 97 |
| Adj No. of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 |
| Peak Hour Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 360 | 146 | 338 | 268 | 132 | 33 | 403 | 1799 | 77 | 100 | 1599 | 201 |
| Arrive On Green | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 |
| Sat Flow, veh/h | 987 | 696 | 1615 | 594 | 633 | 156 | 626 | 3527 | 152 | 12 | 3135 | 394 |
| Grp Volume(v), veh/h | 120 | 0 | 212 | 168 | 0 | 0 | 139 | 345 | 358 | 464 | 0 | 408 |
| Grp Sat Flow(s),veh/h/ln | 1683 | 0 | 1615 | 1383 | 0 | 0 | 626 | 1805 | 1873 | 1882 | 0 | 1659 |
| Q Serve(g_s), s | 0.0 | 0.0 | 4.7 | 2.3 | 0.0 | 0.0 | 7.3 | 4.5 | 4.5 | 0.0 | 0.0 | 6.3 |
| Cycle Q Clear(g_c), s | 2.1 | 0.0 | 4.7 | 4.4 | 0.0 | 0.0 | 13.5 | 4.5 | 4.5 | 6.2 | 0.0 | 6.3 |
| Prop In Lane | 0.67 | | 1.00 | 0.57 | | 0.11 | 1.00 | | 0.08 | 0.02 | | 0.24 |
| Lane Grp Cap(c), veh/h | 506 | 0 | 338 | 433 | 0 | 0 | 403 | 921 | 956 | 1054 | 0 | 847 |
| V/C Ratio(X) | 0.24 | 0.00 | 0.63 | 0.39 | 0.00 | 0.00 | 0.34 | 0.37 | 0.37 | 0.44 | 0.00 | 0.48 |
| Avail Cap(c_a), veh/h | 1106 | 0 | 989 | 1005 | 0 | 0 | 403 | 921 | 956 | 1054 | 0 | 847 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 13.1 | 0.0 | 14.1 | 13.9 | 0.0 | 0.0 | 10.6 | 5.8 | 5.8 | 6.2 | 0.0 | 6.2 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 1.9 | 0.6 | 0.0 | 0.0 | 2.3 | 1.2 | 1.1 | 1.3 | 0.0 | 2.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.1 | 0.0 | 2.2 | 1.7 | 0.0 | 0.0 | 1.5 | 2.5 | 2.6 | 3.6 | 0.0 | 3.3 |
| LnGrp Delay(d),s/veh | 13.3 | 0.0 | 16.0 | 14.5 | 0.0 | 0.0 | 13.0 | 7.0 | 6.9 | 7.6 | 0.0 | 8.2 |
| LnGrp LOS | B | | B | B | | | B | A | A | A | | A |
| Approach Vol, veh/h | | 332 | | | 168 | | | 842 | | | | 872 |
| Approach Delay, s/veh | | 15.1 | | | 14.5 | | | 8.0 | | | | 7.9 |
| Approach LOS | | B | | | B | | | A | | | | A |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 25.5 | | 13.7 | | 25.5 | | 13.7 | | | | |
| Change Period (Y+Rc), s | | 5.5 | | 5.5 | | 5.5 | | 5.5 | | | | |
| Max Green Setting (Gmax), s | | 20.0 | | 24.0 | | 20.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 15.5 | | 6.7 | | 8.3 | | 6.4 | | | | |
| Green Ext Time (p_c), s | | 2.7 | | 1.6 | | 5.2 | | 1.6 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2010 Ctrl Delay | | | 9.5 | | | | | | | | | |
| HCM 2010 LOS | | | A | | | | | | | | | |

HCM Signalized Intersection Capacity Analysis
 3: Middle Neck Road & Wooleys Lane

AM Peak Hour - Build
 M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | | | | | | |
| Volume (vph) | 51 | 101 | 780 | 42 | 100 | 1081 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 16 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frt | 0.91 | | 0.99 | | | 1.00 |
| Flt Protected | 0.98 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1928 | | 3463 | | | 3475 |
| Flt Permitted | 0.98 | | 1.00 | | | 0.81 |
| Satd. Flow (perm) | 1928 | | 3463 | | | 2811 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 51 | 101 | 780 | 42 | 100 | 1081 |
| RTOR Reduction (vph) | 87 | 0 | 4 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 65 | 0 | 818 | 0 | 0 | 1181 |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 6.8 | | 33.0 | | | 33.0 |
| Effective Green, g (s) | 6.8 | | 33.0 | | | 33.0 |
| Actuated g/C Ratio | 0.13 | | 0.65 | | | 0.65 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 258 | | 2249 | | | 1826 |
| v/s Ratio Prot | c0.03 | | 0.24 | | | |
| v/s Ratio Perm | | | | | | c0.42 |
| v/c Ratio | 0.25 | | 0.36 | | | 0.65 |
| Uniform Delay, d1 | 19.7 | | 4.1 | | | 5.4 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 0.5 | | 0.5 | | | 1.8 |
| Delay (s) | 20.2 | | 4.5 | | | 7.2 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 20.2 | | 4.5 | | | 7.2 |
| Approach LOS | C | | A | | | A |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 7.1 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.58 | | |
| Actuated Cycle Length (s) | 50.8 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 78.5% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
7: Middle Neck Road & Allenwood Road

AM Peak Hour - Build
M15-012 - Great Neck



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|-------|-------|------|-------|-------|------|------|------|------|------|-------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Volume (vph) | 4 | 0 | 8 | 112 | 0 | 35 | 3 | 708 | 56 | 29 | 941 | 1 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 12 | 12 | 11 | 12 |
| Total Lost time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Lane Util. Factor | | 1.00 | | | 1.00 | | | 0.95 | | | 0.95 | |
| Frt | | 0.91 | | | 0.97 | | | 0.99 | | | 1.00 | |
| Flt Protected | | 0.98 | | | 0.96 | | | 1.00 | | | 1.00 | |
| Satd. Flow (prot) | | 1701 | | | 1771 | | | 3451 | | | 3484 | |
| Flt Permitted | | 0.98 | | | 0.96 | | | 0.95 | | | 0.92 | |
| Satd. Flow (perm) | | 1701 | | | 1771 | | | 3285 | | | 3205 | |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 4 | 0 | 8 | 112 | 0 | 35 | 3 | 708 | 56 | 29 | 941 | 1 |
| RTOR Reduction (vph) | 0 | 12 | 0 | 0 | 109 | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 761 | 0 | 0 | 971 | 0 |
| Turn Type | Split | NA | | Split | NA | | Perm | NA | | Perm | NA | |
| Protected Phases | 4 | 4 | | 8 | 8 | | | 2 | | | 6 | |
| Permitted Phases | | | | | | | 2 | | | 6 | | |
| Actuated Green, G (s) | | 0.5 | | | 6.7 | | | 25.2 | | | 25.2 | |
| Effective Green, g (s) | | 0.5 | | | 6.7 | | | 25.2 | | | 25.2 | |
| Actuated g/C Ratio | | 0.01 | | | 0.14 | | | 0.52 | | | 0.52 | |
| Clearance Time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | | 3.0 | | | 3.0 | |
| Lane Grp Cap (vph) | | 17 | | | 245 | | | 1710 | | | 1668 | |
| v/s Ratio Prot | | c0.00 | | | c0.02 | | | | | | | |
| v/s Ratio Perm | | | | | | | | 0.23 | | | c0.30 | |
| v/c Ratio | | 0.01 | | | 0.16 | | | 0.44 | | | 0.58 | |
| Uniform Delay, d1 | | 23.7 | | | 18.4 | | | 7.2 | | | 8.0 | |
| Progression Factor | | 1.00 | | | 1.00 | | | 1.00 | | | 1.00 | |
| Incremental Delay, d2 | | 0.2 | | | 0.3 | | | 0.8 | | | 1.5 | |
| Delay (s) | | 23.9 | | | 18.7 | | | 8.1 | | | 9.5 | |
| Level of Service | | C | | | B | | | A | | | A | |
| Approach Delay (s) | | 23.9 | | | 18.7 | | | 8.1 | | | 9.5 | |
| Approach LOS | | C | | | B | | | A | | | A | |

| Intersection Summary | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 9.7 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.49 | | |
| Actuated Cycle Length (s) | 48.4 | Sum of lost time (s) | 16.0 |
| Intersection Capacity Utilization | 71.2% | ICU Level of Service | C |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | T | | | T | | |
| Traffic Vol, veh/h | 11 | 65 | 0 | 812 | 1028 | 0 |
| Future Vol, veh/h | 11 | 65 | 0 | 812 | 1028 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 11 | 65 | 0 | 812 | 1028 | 0 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1434 | 514 | 1028 | 0 | - | 0 |
| Stage 1 | 1028 | - | - | - | - | - |
| Stage 2 | 406 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 127 | 511 | 683 | - | - | - |
| Stage 1 | 310 | - | - | - | - | - |
| Stage 2 | 647 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 127 | 511 | 683 | - | - | - |
| Mov Cap-2 Maneuver | 127 | - | - | - | - | - |
| Stage 1 | 310 | - | - | - | - | - |
| Stage 2 | 647 | - | - | - | - | - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 17.9 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 683 | - | 355 | - | - |
| HCM Lane V/C Ratio | - | - | 0.214 | - | - |
| HCM Control Delay (s) | 0 | - | 17.9 | - | - |
| HCM Lane LOS | A | - | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.8 | - | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.2 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | T | | | T | | |
| Traffic Vol, veh/h | 3 | 7 | 5 | 709 | 1024 | 2 |
| Future Vol, veh/h | 3 | 7 | 5 | 709 | 1024 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 3 | 7 | 5 | 709 | 1024 | 2 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1390 | 513 | 1026 | 0 | - | 0 |
| Stage 1 | 1025 | - | - | - | - | - |
| Stage 2 | 365 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 136 | 512 | 685 | - | - | - |
| Stage 1 | 312 | - | - | - | - | - |
| Stage 2 | 679 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 134 | 512 | 685 | - | - | - |
| Mov Cap-2 Maneuver | 134 | - | - | - | - | - |
| Stage 1 | 308 | - | - | - | - | - |
| Stage 2 | 679 | - | - | - | - | - |

| Approach | EB | NB | SB |
|----------------------|------|-----|----|
| HCM Control Delay, s | 18.5 | 0.2 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 685 | - | 277 | - | - |
| HCM Lane V/C Ratio | 0.007 | - | 0.036 | - | - |
| HCM Control Delay (s) | 10.3 | 0.1 | 18.5 | - | - |
| HCM Lane LOS | B | A | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | T | | | T | | |
| Traffic Vol, veh/h | 0 | 0 | 6 | 747 | 1062 | 31 |
| Future Vol, veh/h | 0 | 0 | 6 | 747 | 1062 | 31 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 0 | 6 | 747 | 1062 | 31 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1464 | 547 | 1093 | 0 | - | 0 |
| Stage 1 | 1078 | - | - | - | - | - |
| Stage 2 | 386 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 121 | 486 | 646 | - | - | - |
| Stage 1 | 292 | - | - | - | - | - |
| Stage 2 | 662 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 119 | 486 | 646 | - | - | - |
| Mov Cap-2 Maneuver | 119 | - | - | - | - | - |
| Stage 1 | 287 | - | - | - | - | - |
| Stage 2 | 662 | - | - | - | - | - |

| Approach | EB | NB | SB |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0 | 0.2 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 646 | - | - | - | - |
| HCM Lane V/C Ratio | 0.009 | - | - | - | - |
| HCM Control Delay (s) | 10.6 | 0.1 | 0 | - | - |
| HCM Lane LOS | B | A | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | - | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.8 | | | | | |
| Movement | NBL | NBT | SBT | SBR | NEL | NER |
| Lane Configurations | | ↑↑ | ↑↑ | | ↑↑ | |
| Traffic Vol, veh/h | 61 | 700 | 1005 | 62 | 31 | 21 |
| Future Vol, veh/h | 61 | 700 | 1005 | 62 | 31 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 61 | 700 | 1005 | 62 | 31 | 21 |



















| Major/Minor | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|---|----------|
| Conflicting Flow All | 1067 | 0 | - | 0 | 1508 534 |
| Stage 1 | - | - | - | - | 1036 - |
| Stage 2 | - | - | - | - | 472 - |
| Critical Hdwy | 4.1 | - | - | - | 6.8 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 3.3 |
| Pot Cap-1 Maneuver | 661 | - | - | - | 114 496 |
| Stage 1 | - | - | - | - | 308 - |
| Stage 2 | - | - | - | - | 600 - |
| Platoon blocked, % | | - | - | - | |
| Mov Cap-1 Maneuver | 661 | - | - | - | 97 496 |
| Mov Cap-2 Maneuver | - | - | - | - | 97 - |
| Stage 1 | - | - | - | - | 261 - |
| Stage 2 | - | - | - | - | 600 - |

| Approach | NB | SB | NE |
|----------------------|-----|----|------|
| HCM Control Delay, s | 1.5 | 0 | 43.5 |
| HCM LOS | | | E |

| Minor Lane/Major Mvmt | NELn1 | NBL | NBT | SBT | SBR |
|-----------------------|-------|-------|-----|-----|-----|
| Capacity (veh/h) | 144 | 661 | - | - | - |
| HCM Lane V/C Ratio | 0.361 | 0.092 | - | - | - |
| HCM Control Delay (s) | 43.5 | 11 | 0.7 | - | - |
| HCM Lane LOS | E | B | A | - | - |
| HCM 95th %tile Q(veh) | 1.5 | 0.3 | - | - | - |

HCM 2010 Signalized Intersection Summary
 1: Middle Neck Road & Old Mill Road

PM Peak Hour - Build
 M15-012 - Great Neck

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  |  | |  | |  |  | | |  | |
| Volume (veh/h) | 76 | 26 | 127 | 49 | 35 | 15 | 112 | 643 | 52 | 9 | 561 | 61 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1976 | 1900 | 1824 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 76 | 26 | 127 | 49 | 35 | 15 | 112 | 643 | 52 | 9 | 561 | 61 |
| Adj No. of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 |
| Peak Hour Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 370 | 105 | 324 | 254 | 162 | 50 | 507 | 1746 | 141 | 102 | 1648 | 177 |
| Arrive On Green | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| Sat Flow, veh/h | 1040 | 522 | 1615 | 577 | 811 | 248 | 782 | 3383 | 273 | 12 | 3194 | 343 |
| Grp Volume(v), veh/h | 102 | 0 | 127 | 99 | 0 | 0 | 112 | 343 | 352 | 334 | 0 | 297 |
| Grp Sat Flow(s),veh/h/ln | 1562 | 0 | 1615 | 1635 | 0 | 0 | 782 | 1805 | 1852 | 1881 | 0 | 1668 |
| Q Serve(g_s), s | 0.2 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 3.8 | 4.4 | 4.4 | 0.0 | 0.0 | 4.1 |
| Cycle Q Clear(g_c), s | 1.8 | 0.0 | 2.6 | 1.7 | 0.0 | 0.0 | 7.9 | 4.4 | 4.4 | 4.0 | 0.0 | 4.1 |
| Prop In Lane | 0.75 | | 1.00 | 0.49 | | 0.15 | 1.00 | | 0.15 | 0.03 | | 0.21 |
| Lane Grp Cap(c), veh/h | 475 | 0 | 324 | 466 | 0 | 0 | 507 | 931 | 955 | 1066 | 0 | 861 |
| V/C Ratio(X) | 0.21 | 0.00 | 0.39 | 0.21 | 0.00 | 0.00 | 0.22 | 0.37 | 0.37 | 0.31 | 0.00 | 0.34 |
| Avail Cap(c_a), veh/h | 1095 | 0 | 1000 | 1112 | 0 | 0 | 507 | 931 | 955 | 1066 | 0 | 861 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 13.1 | 0.0 | 13.5 | 13.1 | 0.0 | 0.0 | 7.8 | 5.6 | 5.6 | 5.5 | 0.0 | 5.5 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 0.8 | 0.2 | 0.0 | 0.0 | 1.0 | 1.1 | 1.1 | 0.8 | 0.0 | 1.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 0.0 | 1.2 | 0.9 | 0.0 | 0.0 | 1.0 | 2.4 | 2.4 | 2.3 | 0.0 | 2.1 |
| LnGrp Delay(d),s/veh | 13.3 | 0.0 | 14.2 | 13.3 | 0.0 | 0.0 | 8.8 | 6.7 | 6.7 | 6.3 | 0.0 | 6.6 |
| LnGrp LOS | B | | B | B | | | A | A | A | A | | A |
| Approach Vol, veh/h | | 229 | | | 99 | | | 807 | | | 631 | |
| Approach Delay, s/veh | | 13.8 | | | 13.3 | | | 7.0 | | | 6.4 | |
| Approach LOS | | B | | | B | | | A | | | A | |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 25.5 | | 13.3 | | 25.5 | | 13.3 | | | | |
| Change Period (Y+Rc), s | | 5.5 | | 5.5 | | 5.5 | | 5.5 | | | | |
| Max Green Setting (Gmax), s | | 20.0 | | 24.0 | | 20.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 9.9 | | 4.6 | | 6.1 | | 3.7 | | | | |
| Green Ext Time (p_c), s | | 3.9 | | 0.9 | | 4.5 | | 1.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2010 Ctrl Delay | | | 8.0 | | | | | | | | | |
| HCM 2010 LOS | | | A | | | | | | | | | |

HCM Signalized Intersection Capacity Analysis
 3: Middle Neck Road & Wooleys Lane

PM Peak Hour - Build
 M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | | | | | | |
| Volume (vph) | 38 | 63 | 763 | 33 | 49 | 695 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 16 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frt | 0.92 | | 0.99 | | | 1.00 |
| Flt Protected | 0.98 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1936 | | 3468 | | | 3478 |
| Flt Permitted | 0.98 | | 1.00 | | | 0.87 |
| Satd. Flow (perm) | 1936 | | 3468 | | | 3029 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 38 | 63 | 763 | 33 | 49 | 695 |
| RTOR Reduction (vph) | 55 | 0 | 3 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 46 | 0 | 793 | 0 | 0 | 744 |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 6.6 | | 33.8 | | | 33.8 |
| Effective Green, g (s) | 6.6 | | 33.8 | | | 33.8 |
| Actuated g/C Ratio | 0.13 | | 0.66 | | | 0.66 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 248 | | 2280 | | | 1991 |
| v/s Ratio Prot | c0.02 | | 0.23 | | | |
| v/s Ratio Perm | | | | | | c0.25 |
| v/c Ratio | 0.19 | | 0.35 | | | 0.37 |
| Uniform Delay, d1 | 20.0 | | 3.9 | | | 4.0 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 0.4 | | 0.4 | | | 0.5 |
| Delay (s) | 20.4 | | 4.3 | | | 4.5 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 20.4 | | 4.3 | | | 4.5 |
| Approach LOS | C | | A | | | A |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 5.4 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.34 | | |
| Actuated Cycle Length (s) | 51.4 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 63.2% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis

7: Middle Neck Road & Allenwood Road

PM Peak Hour - Build
M15-012 - Great Neck



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|-------|-------|------|-------|-------|------|------|-------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Volume (vph) | 4 | 0 | 8 | 47 | 0 | 13 | 3 | 832 | 86 | 12 | 680 | 1 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 12 | 12 | 11 | 12 |
| Total Lost time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Lane Util. Factor | | 1.00 | | | 1.00 | | | 0.95 | | | 0.95 | |
| Frt | | 0.91 | | | 0.97 | | | 0.99 | | | 1.00 | |
| Flt Protected | | 0.98 | | | 0.96 | | | 1.00 | | | 1.00 | |
| Satd. Flow (prot) | | 1701 | | | 1775 | | | 3440 | | | 3486 | |
| Flt Permitted | | 0.98 | | | 0.96 | | | 0.95 | | | 0.94 | |
| Satd. Flow (perm) | | 1701 | | | 1775 | | | 3280 | | | 3270 | |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 4 | 0 | 8 | 47 | 0 | 13 | 3 | 832 | 86 | 12 | 680 | 1 |
| RTOR Reduction (vph) | 0 | 12 | 0 | 0 | 56 | 0 | 0 | 7 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 914 | 0 | 0 | 693 | 0 |
| Turn Type | Split | NA | | Split | NA | | Perm | NA | | Perm | NA | |
| Protected Phases | 4 | 4 | | 8 | 8 | | | 2 | | | 6 | |
| Permitted Phases | | | | | | | 2 | | | 6 | | |
| Actuated Green, G (s) | | 0.5 | | | 3.1 | | | 30.8 | | | 30.8 | |
| Effective Green, g (s) | | 0.5 | | | 3.1 | | | 30.8 | | | 30.8 | |
| Actuated g/C Ratio | | 0.01 | | | 0.06 | | | 0.61 | | | 0.61 | |
| Clearance Time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | | 3.0 | | | 3.0 | |
| Lane Grp Cap (vph) | | 16 | | | 109 | | | 2004 | | | 1998 | |
| v/s Ratio Prot | | c0.00 | | | c0.00 | | | | | | | |
| v/s Ratio Perm | | | | | | | | c0.28 | | | 0.21 | |
| v/c Ratio | | 0.01 | | | 0.03 | | | 0.46 | | | 0.35 | |
| Uniform Delay, d1 | | 24.7 | | | 22.2 | | | 5.3 | | | 4.8 | |
| Progression Factor | | 1.00 | | | 1.00 | | | 1.00 | | | 1.00 | |
| Incremental Delay, d2 | | 0.2 | | | 0.1 | | | 0.8 | | | 0.5 | |
| Delay (s) | | 24.9 | | | 22.4 | | | 6.0 | | | 5.3 | |
| Level of Service | | C | | | C | | | A | | | A | |
| Approach Delay (s) | | 24.9 | | | 22.4 | | | 6.0 | | | 5.3 | |
| Approach LOS | | C | | | C | | | A | | | A | |

Intersection Summary

| | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 6.5 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.41 | | |
| Actuated Cycle Length (s) | 50.4 | Sum of lost time (s) | 16.0 |
| Intersection Capacity Utilization | 44.1% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.4 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | T | | | T | | |
| Traffic Vol, veh/h | 14 | 27 | 0 | 770 | 700 | 0 |
| Future Vol, veh/h | 14 | 27 | 0 | 770 | 700 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 14 | 27 | 0 | 770 | 700 | 0 |

| Major/Minor | Minor2 | Major1 | | Major2 | |
|----------------------|--------|--------|-----|--------|---|
| Conflicting Flow All | 1085 | 350 | 700 | 0 | 0 |
| Stage 1 | 700 | - | - | - | - |
| Stage 2 | 385 | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - |
| Pot Cap-1 Maneuver | 214 | 652 | 906 | - | - |
| Stage 1 | 459 | - | - | - | - |
| Stage 2 | 663 | - | - | - | - |
| Platoon blocked, % | | | | - | - |
| Mov Cap-1 Maneuver | 214 | 652 | 906 | - | - |
| Mov Cap-2 Maneuver | 214 | - | - | - | - |
| Stage 1 | 459 | - | - | - | - |
| Stage 2 | 663 | - | - | - | - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 15.5 | 0 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 906 | - | 384 | - | - |
| HCM Lane V/C Ratio | - | - | 0.107 | - | - |
| HCM Control Delay (s) | 0 | - | 15.5 | - | - |
| HCM Lane LOS | A | - | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.4 | - | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | T | | | T | | |
| Traffic Vol, veh/h | 1 | 2 | 2 | 753 | 704 | 2 |
| Future Vol, veh/h | 1 | 2 | 2 | 753 | 704 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 2 | 2 | 753 | 704 | 2 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1086 | 353 | 706 | 0 | - | 0 |
| Stage 1 | 705 | - | - | - | - | - |
| Stage 2 | 381 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 214 | 649 | 902 | - | - | - |
| Stage 1 | 456 | - | - | - | - | - |
| Stage 2 | 666 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 213 | 649 | 902 | - | - | - |
| Mov Cap-2 Maneuver | 213 | - | - | - | - | - |
| Stage 1 | 454 | - | - | - | - | - |
| Stage 2 | 666 | - | - | - | - | - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 14.4 | 0 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 902 | - | 386 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | 0.008 | - | - |
| HCM Control Delay (s) | 9 | 0 | 14.4 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | T | | | T | | |
| Traffic Vol, veh/h | 0 | 0 | 46 | 754 | 723 | 45 |
| Future Vol, veh/h | 0 | 0 | 46 | 754 | 723 | 45 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 0 | 46 | 754 | 723 | 45 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1215 | 384 | 768 | 0 | - | 0 |
| Stage 1 | 746 | - | - | - | - | - |
| Stage 2 | 469 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 177 | 620 | 855 | - | - | - |
| Stage 1 | 435 | - | - | - | - | - |
| Stage 2 | 602 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 161 | 620 | 855 | - | - | - |
| Mov Cap-2 Maneuver | 161 | - | - | - | - | - |
| Stage 1 | 395 | - | - | - | - | - |
| Stage 2 | 602 | - | - | - | - | - |

| Approach | EB | NB | SB |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0 | 0.9 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 855 | - | - | - | - |
| HCM Lane V/C Ratio | 0.054 | - | - | - | - |
| HCM Control Delay (s) | 9.5 | 0.4 | 0 | - | - |
| HCM Lane LOS | A | A | A | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | - | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.4 | | | | | |
| Movement | NBL | NBT | SBT | SBR | NEL | NER |
| Lane Configurations | | ↑↑ | ↑↑ | | ↑↑ | |
| Traffic Vol, veh/h | 22 | 812 | 744 | 21 | 3 | 15 |
| Future Vol, veh/h | 22 | 812 | 744 | 21 | 3 | 15 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 22 | 812 | 744 | 21 | 3 | 15 |



















| Major/Minor | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|---|----------|
| Conflicting Flow All | 765 | 0 | - | 0 | 1205 383 |
| Stage 1 | - | - | - | - | 755 - |
| Stage 2 | - | - | - | - | 450 - |
| Critical Hdwy | 4.1 | - | - | - | 6.8 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 3.3 |
| Pot Cap-1 Maneuver | 857 | - | - | - | 179 621 |
| Stage 1 | - | - | - | - | 430 - |
| Stage 2 | - | - | - | - | 615 - |
| Platoon blocked, % | | - | - | - | |
| Mov Cap-1 Maneuver | 857 | - | - | - | 171 621 |
| Mov Cap-2 Maneuver | - | - | - | - | 171 - |
| Stage 1 | - | - | - | - | 410 - |
| Stage 2 | - | - | - | - | 615 - |

| Approach | NB | SB | NE |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.4 | 0 | 13.7 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NELn1 | NBL | NBT | SBT | SBR |
|-----------------------|-------|-------|-----|-----|-----|
| Capacity (veh/h) | 432 | 857 | - | - | - |
| HCM Lane V/C Ratio | 0.042 | 0.026 | - | - | - |
| HCM Control Delay (s) | 13.7 | 9.3 | 0.2 | - | - |
| HCM Lane LOS | B | A | A | - | - |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | - |

HCM 2010 Signalized Intersection Summary
 1: Middle Neck Road & Old Mill Road

Saturday Peak Hour - Build
 M15-012 - Great Neck

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  |  | |  | |  |  | | |  | |
| Volume (veh/h) | 43 | 21 | 100 | 16 | 10 | 2 | 53 | 376 | 23 | 1 | 421 | 39 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.94 | | 0.94 | 0.95 | | 0.94 | 0.91 | | 0.82 | 0.90 | | 0.82 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1976 | 1900 | 1824 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 43 | 21 | 100 | 16 | 10 | 2 | 53 | 376 | 23 | 1 | 421 | 39 |
| Adj No. of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 |
| Peak Hour Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 471 | 208 | 560 | 402 | 235 | 40 | 408 | 1386 | 84 | 74 | 1304 | 119 |
| Arrive On Green | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 |
| Sat Flow, veh/h | 943 | 563 | 1517 | 778 | 635 | 109 | 830 | 3407 | 207 | 1 | 3205 | 293 |
| Grp Volume(v), veh/h | 64 | 0 | 100 | 28 | 0 | 0 | 53 | 198 | 201 | 248 | 0 | 213 |
| Grp Sat Flow(s),veh/h/ln | 1506 | 0 | 1517 | 1521 | 0 | 0 | 830 | 1805 | 1809 | 1899 | 0 | 1599 |
| Q Serve(g_s), s | 0.1 | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 | 2.3 | 3.6 | 3.7 | 0.0 | 0.0 | 4.5 |
| Cycle Q Clear(g_c), s | 1.1 | 0.0 | 2.2 | 0.5 | 0.0 | 0.0 | 6.8 | 3.6 | 3.7 | 4.4 | 0.0 | 4.5 |
| Prop In Lane | 0.67 | | 1.00 | 0.57 | | 0.07 | 1.00 | | 0.11 | 0.00 | | 0.18 |
| Lane Grp Cap(c), veh/h | 679 | 0 | 560 | 677 | 0 | 0 | 408 | 734 | 736 | 846 | 0 | 651 |
| V/C Ratio(X) | 0.09 | 0.00 | 0.18 | 0.04 | 0.00 | 0.00 | 0.13 | 0.27 | 0.27 | 0.29 | 0.00 | 0.33 |
| Avail Cap(c_a), veh/h | 855 | 0 | 740 | 853 | 0 | 0 | 408 | 734 | 736 | 846 | 0 | 651 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 10.1 | 0.0 | 10.5 | 9.9 | 0.0 | 0.0 | 12.3 | 9.7 | 9.7 | 9.9 | 0.0 | 10.0 |
| Incr Delay (d2), s/veh | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.7 | 0.9 | 0.9 | 0.9 | 0.0 | 1.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.6 | 0.0 | 0.9 | 0.2 | 0.0 | 0.0 | 0.6 | 1.9 | 2.0 | 2.5 | 0.0 | 2.2 |
| LnGrp Delay(d),s/veh | 10.2 | 0.0 | 10.6 | 9.9 | 0.0 | 0.0 | 13.0 | 10.6 | 10.7 | 10.8 | 0.0 | 11.3 |
| LnGrp LOS | B | | B | A | | | B | B | B | B | | B |
| Approach Vol, veh/h | | 164 | | | 28 | | | 452 | | | 461 | |
| Approach Delay, s/veh | | 10.4 | | | 9.9 | | | 10.9 | | | 11.1 | |
| Approach LOS | | B | | | A | | | B | | | B | |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 25.5 | | 23.7 | | 25.5 | | 23.7 | | | | |
| Change Period (Y+Rc), s | | 5.5 | | 5.5 | | 5.5 | | 5.5 | | | | |
| Max Green Setting (Gmax), s | | 20.0 | | 24.0 | | 20.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 8.8 | | 4.2 | | 6.5 | | 2.5 | | | | |
| Green Ext Time (p_c), s | | 2.4 | | 0.5 | | 2.6 | | 0.6 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2010 Ctrl Delay | | | 10.9 | | | | | | | | | |
| HCM 2010 LOS | | | B | | | | | | | | | |

HCM Signalized Intersection Capacity Analysis
 3: Middle Neck Road & Wooleys Lane

Saturday Peak Hour - Build
 M15-012 - Great Neck



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------|-------|------|------|------|------|-------|
| Lane Configurations | | | | | | |
| Volume (vph) | 29 | 28 | 437 | 16 | 29 | 563 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 16 | 12 | 11 | 12 | 12 | 11 |
| Total Lost time (s) | 5.5 | | 5.5 | | | 5.5 |
| Lane Util. Factor | 1.00 | | 0.95 | | | 0.95 |
| Frbp, ped/bikes | 0.93 | | 1.00 | | | 1.00 |
| Flpb, ped/bikes | 1.00 | | 1.00 | | | 1.00 |
| Frt | 0.93 | | 0.99 | | | 1.00 |
| Flt Protected | 0.98 | | 1.00 | | | 1.00 |
| Satd. Flow (prot) | 1825 | | 3456 | | | 3469 |
| Flt Permitted | 0.98 | | 1.00 | | | 0.92 |
| Satd. Flow (perm) | 1825 | | 3456 | | | 3212 |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 29 | 28 | 437 | 16 | 29 | 563 |
| RTOR Reduction (vph) | 26 | 0 | 2 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 31 | 0 | 451 | 0 | 0 | 592 |
| Confl. Peds. (#/hr) | 150 | 200 | | 150 | 200 | |
| Turn Type | Prot | | NA | | Perm | NA |
| Protected Phases | 8 | | 2 | | | 6 |
| Permitted Phases | | | | | 6 | |
| Actuated Green, G (s) | 3.3 | | 38.5 | | | 38.5 |
| Effective Green, g (s) | 3.3 | | 38.5 | | | 38.5 |
| Actuated g/C Ratio | 0.06 | | 0.73 | | | 0.73 |
| Clearance Time (s) | 5.5 | | 5.5 | | | 5.5 |
| Vehicle Extension (s) | 3.0 | | 3.0 | | | 3.0 |
| Lane Grp Cap (vph) | 114 | | 2520 | | | 2342 |
| v/s Ratio Prot | c0.02 | | 0.13 | | | |
| v/s Ratio Perm | | | | | | c0.18 |
| v/c Ratio | 0.27 | | 0.18 | | | 0.25 |
| Uniform Delay, d1 | 23.6 | | 2.2 | | | 2.4 |
| Progression Factor | 1.00 | | 1.00 | | | 1.00 |
| Incremental Delay, d2 | 1.3 | | 0.2 | | | 0.3 |
| Delay (s) | 24.9 | | 2.4 | | | 2.6 |
| Level of Service | C | | A | | | A |
| Approach Delay (s) | 24.9 | | 2.4 | | | 2.6 |
| Approach LOS | C | | A | | | A |

| Intersection Summary | | | |
|-----------------------------------|-------|---------------------------|------|
| HCM 2000 Control Delay | 3.7 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.25 | | |
| Actuated Cycle Length (s) | 52.8 | Sum of lost time (s) | 11.0 |
| Intersection Capacity Utilization | 66.2% | ICU Level of Service | C |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

HCM Signalized Intersection Capacity Analysis
7: Middle Neck Road & Allenwood Road

Saturday Peak Hour - Build
M15-012 - Great Neck



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|-------|-------|------|-------|-------|------|------|------|------|------|-------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Volume (vph) | 3 | 0 | 5 | 36 | 0 | 9 | 8 | 456 | 62 | 6 | 585 | 1 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 12 | 12 | 11 | 12 |
| Total Lost time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Lane Util. Factor | | 1.00 | | | 1.00 | | | 0.95 | | | 0.95 | |
| Frbp, ped/bikes | | 0.80 | | | 0.99 | | | 0.99 | | | 1.00 | |
| Flpb, ped/bikes | | 0.99 | | | 1.00 | | | 1.00 | | | 1.00 | |
| Frt | | 0.92 | | | 0.97 | | | 0.98 | | | 1.00 | |
| Flt Protected | | 0.98 | | | 0.96 | | | 1.00 | | | 1.00 | |
| Satd. Flow (prot) | | 1350 | | | 1762 | | | 3391 | | | 3485 | |
| Flt Permitted | | 0.98 | | | 0.96 | | | 0.95 | | | 0.95 | |
| Satd. Flow (perm) | | 1350 | | | 1762 | | | 3214 | | | 3315 | |
| Peak-hour factor, PHF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj. Flow (vph) | 3 | 0 | 5 | 36 | 0 | 9 | 8 | 456 | 62 | 6 | 585 | 1 |
| RTOR Reduction (vph) | 0 | 8 | 0 | 0 | 44 | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 517 | 0 | 0 | 592 | 0 |
| Confl. Peds. (#/hr) | 50 | | 25 | 25 | | 50 | 175 | | 75 | 75 | | 175 |
| Turn Type | Split | NA | | Split | NA | | Perm | NA | | Perm | NA | |
| Protected Phases | 4 | 4 | | 8 | 8 | | | 2 | | | 6 | |
| Permitted Phases | | | | | | | 2 | | | 6 | | |
| Actuated Green, G (s) | | 0.5 | | | 1.4 | | | 32.6 | | | 32.6 | |
| Effective Green, g (s) | | 0.5 | | | 1.4 | | | 32.6 | | | 32.6 | |
| Actuated g/C Ratio | | 0.01 | | | 0.03 | | | 0.65 | | | 0.65 | |
| Clearance Time (s) | | 5.0 | | | 5.5 | | | 5.5 | | | 5.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | | 3.0 | | | 3.0 | |
| Lane Grp Cap (vph) | | 13 | | | 48 | | | 2074 | | | 2139 | |
| v/s Ratio Prot | | c0.00 | | | c0.00 | | | | | | | |
| v/s Ratio Perm | | | | | | | | 0.16 | | | c0.18 | |
| v/c Ratio | | 0.01 | | | 0.03 | | | 0.25 | | | 0.28 | |
| Uniform Delay, d1 | | 24.8 | | | 23.9 | | | 3.8 | | | 3.9 | |
| Progression Factor | | 1.00 | | | 1.00 | | | 1.00 | | | 1.00 | |
| Incremental Delay, d2 | | 0.2 | | | 0.2 | | | 0.3 | | | 0.3 | |
| Delay (s) | | 24.9 | | | 24.1 | | | 4.1 | | | 4.2 | |
| Level of Service | | C | | | C | | | A | | | A | |
| Approach Delay (s) | | 24.9 | | | 24.1 | | | 4.1 | | | 4.2 | |
| Approach LOS | | C | | | C | | | A | | | A | |

| Intersection Summary | | |
|-----------------------------------|-------|---------------------------|
| HCM 2000 Control Delay | 5.0 | HCM 2000 Level of Service |
| HCM 2000 Volume to Capacity ratio | 0.26 | A |
| Actuated Cycle Length (s) | 50.5 | Sum of lost time (s) |
| Intersection Capacity Utilization | 47.6% | 16.0 |
| Analysis Period (min) | 15 | ICU Level of Service |
| c Critical Lane Group | | A |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.2 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | T | | | T | | |
| Traffic Vol, veh/h | 17 | 32 | 0 | 475 | 551 | 0 |
| Future Vol, veh/h | 17 | 32 | 0 | 475 | 551 | 0 |
| Conflicting Peds, #/hr | 175 | 175 | 175 | 0 | 0 | 175 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 17 | 32 | 0 | 475 | 551 | 0 |

| Major/Minor | Minor2 | Major1 | | Major2 | |
|----------------------|--------|--------|-----|--------|---|
| Conflicting Flow All | 1139 | 626 | 726 | 0 | 0 |
| Stage 1 | 726 | - | - | - | - |
| Stage 2 | 413 | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - |
| Pot Cap-1 Maneuver | 198 | 432 | 886 | - | - |
| Stage 1 | 445 | - | - | - | - |
| Stage 2 | 642 | - | - | - | - |
| Platoon blocked, % | | | | - | - |
| Mov Cap-1 Maneuver | 144 | 320 | 757 | - | - |
| Mov Cap-2 Maneuver | 144 | - | - | - | - |
| Stage 1 | 380 | - | - | - | - |
| Stage 2 | 548 | - | - | - | - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 25.4 | 0 | 0 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 757 | - | 225 | - | - |
| HCM Lane V/C Ratio | - | - | 0.218 | - | - |
| HCM Control Delay (s) | 0 | - | 25.4 | - | - |
| HCM Lane LOS | A | - | D | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.8 | - | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.2 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | T | | | T | | |
| Traffic Vol, veh/h | 3 | 4 | 0 | 453 | 540 | 4 |
| Future Vol, veh/h | 3 | 4 | 0 | 453 | 540 | 4 |
| Conflicting Peds, #/hr | 225 | 200 | 200 | 0 | 0 | 225 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 3 | 4 | 0 | 453 | 540 | 4 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1219 | 697 | 769 | 0 | - | 0 |
| Stage 1 | 767 | - | - | - | - | - |
| Stage 2 | 452 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 176 | 388 | 854 | - | - | - |
| Stage 1 | 424 | - | - | - | - | - |
| Stage 2 | 614 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 116 | 267 | 694 | - | - | - |
| Mov Cap-2 Maneuver | 116 | - | - | - | - | - |
| Stage 1 | 345 | - | - | - | - | - |
| Stage 2 | 499 | - | - | - | - | - |

| Approach | EB | NB | SB |
|----------------------|------|----|----|
| HCM Control Delay, s | 26.9 | 0 | 0 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | 694 | - | 171 | - | - |
| HCM Lane V/C Ratio | - | - | 0.041 | - | - |
| HCM Control Delay (s) | 0 | - | 26.9 | - | - |
| HCM Lane LOS | A | - | D | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | T | | | T | | |
| Traffic Vol, veh/h | 0 | 0 | 6 | 457 | 537 | 51 |
| Future Vol, veh/h | 0 | 0 | 6 | 457 | 537 | 51 |
| Conflicting Peds, #/hr | 225 | 225 | 225 | 0 | 0 | 225 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 0 | 6 | 457 | 537 | 51 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1254 | 744 | 813 | 0 | - | 0 |
| Stage 1 | 788 | - | - | - | - | - |
| Stage 2 | 466 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 167 | 362 | 823 | - | - | - |
| Stage 1 | 414 | - | - | - | - | - |
| Stage 2 | 604 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 109 | 244 | 669 | - | - | - |
| Mov Cap-2 Maneuver | 109 | - | - | - | - | - |
| Stage 1 | 332 | - | - | - | - | - |
| Stage 2 | 491 | - | - | - | - | - |

| Approach | EB | NB | SB |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0 | 0.2 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 669 | - | - | - | - |
| HCM Lane V/C Ratio | 0.009 | - | - | - | - |
| HCM Control Delay (s) | 10.4 | 0.1 | 0 | - | - |
| HCM Lane LOS | B | A | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | - | - |

Intersection

Int Delay, s/veh 1.1

Movement NBL NBT SBT SBR NEL NER

| | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | ↑↑ | ↑↑ | | ↑ | |
| Traffic Vol, veh/h | 8 | 475 | 539 | 6 | 9 | 32 |
| Future Vol, veh/h | 8 | 475 | 539 | 6 | 9 | 32 |
| Conflicting Peds, #/hr | 200 | 0 | 0 | 200 | 200 | 200 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 100 | 100 | 100 | 100 | 100 | 100 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 8 | 475 | 539 | 6 | 9 | 32 |

Major/Minor Major1 Major2 Minor2

| | | | | | | |
|----------------------|-----|---|---|---|------|-----|
| Conflicting Flow All | 745 | 0 | - | 0 | 1196 | 673 |
| Stage 1 | - | - | - | - | 742 | - |
| Stage 2 | - | - | - | - | 454 | - |
| Critical Hdwy | 4.1 | - | - | - | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 872 | - | - | - | 182 | 402 |
| Stage 1 | - | - | - | - | 437 | - |
| Stage 2 | - | - | - | - | 612 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 727 | - | - | - | 124 | 284 |
| Mov Cap-2 Maneuver | - | - | - | - | 124 | - |
| Stage 1 | - | - | - | - | 359 | - |
| Stage 2 | - | - | - | - | 510 | - |

Approach NB SB NE

HCM Control Delay, s 0.3 0 25
HCM LOS D

Minor Lane/Major Mvmt NELn1 NBL NBT SBT SBR

| | | | | | |
|-----------------------|-------|-------|-----|---|---|
| Capacity (veh/h) | 221 | 727 | - | - | - |
| HCM Lane V/C Ratio | 0.186 | 0.011 | - | - | - |
| HCM Control Delay (s) | 25 | 10 | 0.1 | - | - |
| HCM Lane LOS | D | B | A | - | - |
| HCM 95th %tile Q(veh) | 0.7 | 0 | - | - | - |