VILLAGE OF ARDSLEY

ZONING WORK SHEET

JOB LOCATION: _34 Lincoln Avenue_

SECTION: _6.80_ SUB-SECTION: _____ BLOCK: _69_ LOT: _1_

OWNER: _David Fink and Jessica Perez_

ARCHITECT: _Jaret Adam Horn, P.E._

LOT AREA:
REQUIRED: _____
EXISTING: _____
PROPOSED: No Change

STREET FRONTAGE:
REQUIRED: _____
EXISTING: _____
PROPOSED: No Change

FRONT SETBACK:
REQUIRED: _____
EXISTING: _____
PROPOSED: No Change

SIDE SETBACK:
REQUIRED: _____
EXISTING: _____
PROPOSED: No Change

SIDE SETBACK:
REQUIRED: Minimum of 20 FT - Side Yard - East Side
EXISTING: ~~21.58 FT~~ 14.37 FT
PROPOSED: ~~8.42 FT~~ 0 FT

REAR SETBACK:
REQUIRED: _____
EXISTING: _____
PROPOSED: No Change

BUILDING STORIES:
PERMITTED: _____
EXISTING: _____
PROPOSED: No Change

BUILDING HEIGHT:
MAXIMUM: _____
EXISTING: _____
PROPOSED: _____
ROOF SLOPE: No Change

BUILDING COVERAGE: MAXIMUM: No Change

                              EXISTING:

                              PROPOSED:

FLOOR AREA: BASIC PERMITTED:

                              MAXIMUM:

                              EXISITNG:

                              PROPOSED: No Change

NOTE: Attach a breakdown of the existing & proposed floor area

LAND COVERAGE: BASIC PERMITTED: 3,026.3 SF

                              MAXIMUM: 3,580.6 SF

                              EXISITNG: 2,579.91 SF

                              PROPOSED: 2,943.42 SF

NOTE: Attach a breakdown of the existing & proposed land coverage

PARKING: REQUIRED:

                              PROPOSED: No Change

WETLANDS BUFFER: MINIMUM: N/A

                              EXISTING:

                              ALLOWED:

STEEP SLOPES: EXISTING: 7,719 SF

                              PROPOSED: 7,355.49 SF

IS THE PROPERTY LOCATED IN A FLOODLAIN?   NO

CERTIFICATION STATEMENT

All dimensions and calculations as set forth on these plans and in this application are certified to be correct.

_____

Signature and seal of registered professional

11/2/2021
_____
Date

Files: FORMS/zoning work sheet rev 6/12

WALL DESIGN SPREADSHEET

OUTPUT

SUMMARY OF DESIGN RESULTS

# of Input Warnings/Errors = 5

External Stability

Type of Stability Check:				Load Case	Perf. Ratio	OK ?
Overturning (Eccentricity):	$e_B =$	-3.59	ft	STR-I MIN	1.07	OK
	e_B max =	3.85	ft			
Sliding:	$\Sigma H =$	0.93	t/ft	STR-I MIN	1.49	OK
	$R_R =$	1.38	t/ft			
Bearing:	$q =$	0.58	t/ft^2	STR-I MAX	4.01	OK
	$q_R =$	2.32	t/ft^2			

Internal Stability for Geosynthetic Reinforcement

Type of Stability Check:				Location	Perf. Ratio	OK ?
Tensile Resistance:	$T_{max} =$	0.11	t/ft	LAYER # 1	1.27	OK
	$\varphi_t T_{al} R_c =$	0.14	t/ft			
Tensile Resistance (Static):	T_{max} (static) =	0.09	t/ft	LAYER # 1	1.34	OK
	$\varphi S_{rs} R_c / RF =$	0.12	t/ft			
Tensile Resistance (Transient):	T_{max} (transient) =		t/ft	LAYER #		N/A
	$\varphi S_{rt} R_c / (RF_{ID} * RF_D) =$		t/ft			
Connection Strength:	$T_{max} =$		t/ft	LAYER #		N/A
	$\varphi_t T_{ac} R_c =$		t/ft			
Wall Facing (Overlap):	$L_{overlap}$ req'd =		ft	LAYER #		N/A
	$L_{overlap} =$		ft			
Pullout Resistance:	L_e req'd =		ft	LAYER #		N/A
	$L_e =$		ft			
Tensile Resistance: (Seismic)	$T_{total} =$		t/ft	LAYER #		N/A
	$\varphi_t T_{al} R_c =$		t/ft			
Tensile Resistance (Static): (Seismic)	$T_{max} =$		t/ft	LAYER #		N/A
	$\varphi S_{rs} R_c / RF =$		t/ft			
Tensile Resistance (Dynamic): (Seismic)	$T_{md} =$		t/ft	LAYER #		N/A
	$\varphi S_{rt} R_c / (RF_{ID} * RF_D) =$		t/ft			
Connection Strength: (Seismic)	$T_{total} =$		t/ft	LAYER #		N/A
	$\varphi_t T_{ac} R_c =$		t/ft			
Connection Strength (Static): (Seismic)	$T_{max} =$		t/ft	LAYER #		N/A
	$\varphi S_{rs} CR_{cr} R_c / RF_D =$		t/ft			
Connection Strength (Dynamic): (Seismic)	$T_{md} =$		t/ft	LAYER #		N/A
	$\varphi S_{rt} CR_u R_c / RF_D =$		t/ft			
Wall Facing (Overlap): (Seismic)	$L_{overlap}$ req'd =		ft	LAYER #		N/A
	$L_{overlap} =$		ft			
Pullout Resistance: (Seismic)	L_e req'd =		ft	LAYER #		N/A
	$L_e =$		ft			

(Engineer's seal: STATE OF NEW YORK, JARET ADAM HORN, LICENSED PROFESSIONAL ENGINEER, 104009)

Building and Land Coverage Calculation Worksheet
34 Lincoln Avenue - R-3 District: One-family residential district

Total square footage of property.

Total Acreage   0.17203857
multiply by x   43,560.00
=   7719

Total: 7719.00001 SF

Determine land coverage %

	Existing SF +	Proposed SF =	Total SF	
House	779.16	0	779.16	
Garage	407.43	0	407.43	
Driveway	772.69	0	772.69	
Porch	210.85	0	210.85	
Walkway	409.78	0	409.78	
Terrace	0	363.51	363.51	
Other	0	0	0	
TOTAL	2579.91	363.51	2943.42	Below Basic Permitted

Divide by Total Square Footage.

2943.42 / 7719 = 0.3813   ×   Multiply by 100.   100 = 38.13 %

Basic Permitted	3,026.30
Maximum	3,580.60