

Board of Architectural Review Agenda

VILLAGE OF MAMARONECK BOARD OF ARCHITECTURAL REVIEW AGENDA

October 19, 2017 AT 7:30 PM - 169 Mt. Pleasant Avenue

NOTICE OF FIRE EXITS AND REQUEST TO TURN OFF ELECTRONIC DEVICES

1. OLD BUSINESS
 - A. 742 SOUNDVIEW DRIVE - NEW HOUSE
APPLICANT: JOHN SCARLATO - ARCHITECT
2. NEW BUSINESS
 - A. 502 CENTER AVENUE - FACADE SIGN
APPLICANT: CENTRAL IRRIGATION SUPPLY
 - B. 1517 PARK AVENUE - SOLAR PANELS
APPLICANT: SUNRUN INSTALLATION SERVICES - CONTRACTOR
 - C. 912 SYLVAN LANE - DECK
APPLICANT: HDR CONTRACTING - CONTRACTOR
 - D. 1416 RALEIGH ROAD - MODIFY ENTRY LANDING
APPLICANT: JOHN BARRETO - HOMEOWNER
 - E. 622 SECOND STREET - SOLAR PANELS
APPLICANT: VANGUARD ENERGY - CONTRACTOR
 - F. 1219 HENRY AVENUE - 2 STORY ADDITION AND 2ND FLOOR
ADDITION
APPLICANT: STEPHEN MARCHESANI - ARCHITECT
 - G. 408 WAGNER AVENUE - 2ND FLOOR ADDITION
APPLICANT: JACK PISCO - OWNER/CONTRACTOR
 - H. 312 FIFTH STREET - NEW HOUSE
APPLICANT: JACK PISCO - OWNER/CONTRACTOR
 - I. 145-149 LIBRARY LANE - NEW 4 STORY BUILDING
APPLICANT: GARSON DEVELOPMENT - CONTRACT VENDEE
NOTE: NEEDS PLANNING BOARD APPROVAL

ANY HANDICAPPED PERSON NEEDING SPECIAL ASSISTANCE IN ORDER TO ATTEND THE MEETING SHOULD CALL THE VILLAGE MANAGER'S OFFICE AT 914-777-7703

Applicants must place a notification sign on the property and return a Proof of Service Affidavit to the Building Department prior to the meeting or the application will not be heard by the Board at this meeting.

Applicants must bring photographs of the subject premises and adjacent properties to the Building Department at the time of submission. If not received, your application will not be heard by the Board at this meeting.

Please inform the Building Department 48 hours prior to the meeting if you are unable to be in attendance.

THE NEXT MEETING WILL BE HELD ON THURSDAY NOVEMBER 16, 2017

Village of Mamaroneck, NY

Item Title: 742 Soundview

Item Summary: 742 SOUNDVIEW DRIVE - NEW HOUSE
APPLICANT: JOHN SCARLATO - ARCHITECT

Fiscal Impact:

ATTACHMENTS:

| <u>Description</u> | <u>Upload Date</u> | <u>Type</u> |
|---------------------------|---------------------------|--------------------|
| 742 Soundview | 10/12/2017 | Presentation |
| 742 Soundview | 10/12/2017 | Presentation |



FRONT ELEVATION
SCALE 1/4"=1'-0"

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE OFFICIAL CODES, RULES AND REGULATIONS OF 2015 INTERNATIONAL RESIDENTIAL CODE, 2015 INTERNATIONAL BUILDING CODE, 2015 INTERNATIONAL EXISTING BUILDING CODE, 2015 INTERNATIONAL ENERGY CONSERVATION CODE AND 2015 INTERNATIONAL FIRE CODE.
- CONTRACTOR SHALL PROTECT AND BRACE ALL WORK FROM DAMAGE DURING CONSTRUCTION.
- ALL WORK TO BE PLUMB & TRUE. ALL PLUMBING WORK TO BE IN ACCORDANCE WITH NYS PLUMBING CODE. ALL ELECTRICAL WORK TO BE IN COMPLIANCE WITH NYS AND N.E.C. ALL HVAC WORK TO BE IN COMPLIANCE WITH ASHRAE STANDARDS. LATEST EDITION. ALL PLUMBERS AND ELECTRICIANS SHALL BE LICENSED AND INSURED. ALL CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR ANY ADDITIONAL PERMITS, APPROVALS, AND INSPECTIONS THEIR PARTICULAR TRADE MAY REQUIRE.
- SPECIFICALLY, TABLES 502.4.1 TO 502.4.19, PROVIDE PROTECTING, WALLS, ROUGH FRAMING HARDWARE AS REQUIRED. ALL BEAMS, JOISTS AND RATCHES TO BE SET WITH NATURAL CROWN UP. PROVIDE DOUBLE RAFTERS AND HEADERS AROUND ALL ROOF SKYLIGHTS UNLESS OTHERWISE NOTED. ALL LUMBER SHALL BEAR VISIBLE GRAIN STAMP. ALL STRUCTURAL LUMBER, T&L, T&L, OR EQUIVALENT SHALL BE INSTALLED PER DRAWING AND MANUFACTURERS SPECIFICATIONS. ALL HANDLING AND INSTALLATION PROCEDURES MUST BE SUPPLIED BY THE MANUFACTURER AND SHALL BE FOLLOWED. STRUCTURAL AND ENGINEERED LUMBER SHALL NOT BE ALLOWED TO GET WET AT ANY TIME.
- USE OF ANY TRUSS TYPE, PRE-ENGINEERED OR TIMBER CONSTRUCTION WILL REQUIRE A SIGN BE PLACED AT OR ADJACENT TO THE ELECTRIC METER WITH SPECIFICATIONS PROVIDED BY THE ARCHITECT.
- ALL CONCRETE WORK, DETAILS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ACI 318 AND ACI 308 OR PCA 108, AND THE INTERNATIONAL RESIDENTIAL CODE 2015 SECTION 1804. ALL CONCRETE SHALL BE TYPE-1, 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. REINFORCING BARS TO CONFORM TO 2015 INTERNATIONAL RESIDENTIAL CODE SECTION 1804.1.3.2. REINFORCING SHALL BE ACCURATELY INSTALLED TO REQUIRED ELEVATION AND SECURELY TIED IN PLACE SO AS TO PREVENT DISPLACEMENT DURING CONCRETING.
- CONTRACTORS TO VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO ARCHITECT. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED VIRGIN SOIL, HAVING A MINIMUM SAFE BEARING CAPACITY OF 2 TONS PER SQUARE FOOT. BRACE ALL RETAINING WALLS OR FOUNDATION WALLS AS REQUIRED. BACKFILL WITH APPROVED MATERIAL. BACKFILL UNDER SLABS, AROUND PIERIS ON EACH SIDE OF FOUNDATION WALLS SHALL BE DONE IN LAYERS NOT TO EXCEED 10 INCHES. COMPACTION SHALL BE 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. EXCAVATION MUST BE FREE OF WATER WHILE FOUNDATION WORK IS IN PROGRESS. PILING, BULLDOZERS, AND OTHER HEAVY EQUIPMENT SHALL BE OPERATED WITH CAUTION AND IN SUCH A MANNER AS TO CAUSE NO DAMAGE TO FOUNDATION SYSTEMS.
- ALL STRUCTURAL STEEL SHALL BE NEW, CLEAN, STRAIGHT, AND SHALL CONFORM TO THE LATEST EDITION FOR ASTM DESIGNATION A-36 OR A-588 FOR ALL "I" SECTIONS. ALL STRUCTURAL STEEL WORK SHALL COMPLY WITH SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND CONSTRUCTION OF STRUCTURAL STEEL FOR BUILDINGS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION LATEST EDITION. PROVIDE STIFFENER ANGLES OR PLATES UNDER ALL POSTS, COLUMNS OR STRUTS THAT ARE CARRIED BY STEEL BEAMS AND IN THE WEB OF BEAMS CANTILEVERED OVER COLUMNS OR BEAMS SUPPORTING HANGERS. UNLESS OTHERWISE NOTED PROVIDE 4x4x1/2" BEARING ON CONCRETE MASONRY IF ANY.
- HEADERS TO BE (2) 2"x10" IN 2x6 WALLS AND (2) 3"x10" IN 2x4 WALLS UNLESS OTHERWISE NOTED.
- INSULATION IN FLOOR, WALL AND CEILING APPLICATIONS SHALL BE OF COMBINATIONS OF FIBERGLASS, CONTINUOUS RIGID, OR BLOWN OR SPRAYED CELLULOSE INSULATION TYPES TO CONFORM TO THE IBC 2015 CHAPTER 4. WESTCHESTER COUNTY IS CLIMATE ZONE 4A.
- TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2015 IRC ENERGY COMPLIANCE CODE WITH NYS AMENDMENTS.
- ALL FOOTINGS TO BE A MINIMUM OF 3'-4" BELOW GRADE, OR LOCAL FROST DEPTH AS SPECIFIED BY ARCHITECT, UNDERPIN WHEN NECESSARY.
- BUILDING TO CONFORM TO ANY LOCAL SUPPLEMENTAL CODE.
- PROVIDE BLOCKING AS REQUIRED TO BEARING POSTS ONTO GROUND OR BEAM CONDITIONS AND VERIFY ALL BEARING TO FOOTING.
- ALL DECK RAILS AND STAIR HANDRAILS TO BE IN COMPLIANCE WITH 2015 IRC SECTION 311 OR CURRENT CODE OR SUPPLEMENTAL CODES.
- ALL ROOF FRAMING SYSTEMS SHALL BE INSTALLED WITH HIGH WIND CONNECTORS IN COMPLIANCE WITH 2015 IRC CHAPTER 4.
- ALL POSTS TO FOUNDATION FOR THE PURPOSE OF SUPPORTING ROOF OR OTHER BEAMS SHALL BE BLOCKING AS SPECIFIED BY ARCHITECT OR A MINIMUM OF 4X4 NOMINAL DIMENSION FROM STRUCTURAL ELEMENT TO BE SUPPORTED CONTINUOUS TO A SOLID MASONRY FOUNDATION THAT EXTENDS BELOW REQUIRED FROST DEPTH AND RESTS ON A FIRM TYPICAL CONSTRUCTION.
- ALL SIMPSON STRONG TIE CONNECTORS AND ANCHORS ARE DESIGNED WITH SPECIFIC LOADS AND CAPACITIES. SUBSTITUTIONS OF THESE HANGERS FOR DIFFERENT MODEL NUMBERS THAN SPECIFIED BY ARCHITECT OR ENGINEER IS FORBIDDEN WITHOUT VERIFYING THE REPLACEMENT PART WITH DESIGN PROFESSIONAL.

RECEIVED

AUG 18 2017

VILLAGE OF MAMARONECK
BUILDING DEPARTMENT

JOHN G.
SCARLATO JR.
ARCHITECT
33 BYRAM HILL RD
ARMONK, NY 10504
PHONE 914 273-7350

742 SOUNDVIEW DRIVE LLC
742 SOUNDVIEW DRIVE
MAMARONECK, NY 10548

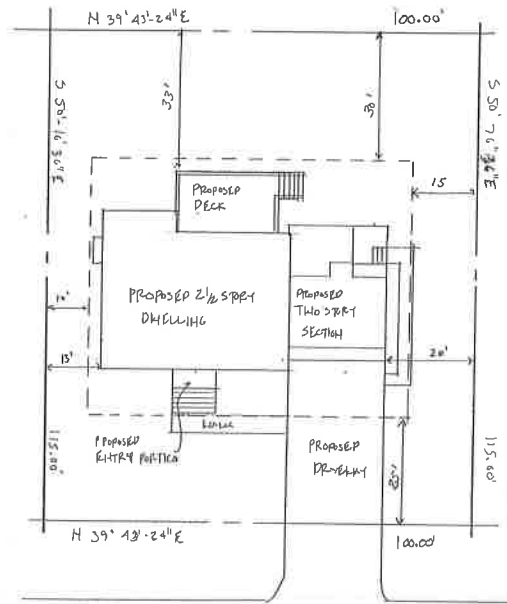
NEW HOUSE

FRONT ELEVATION & PLOT PLAN

A-1

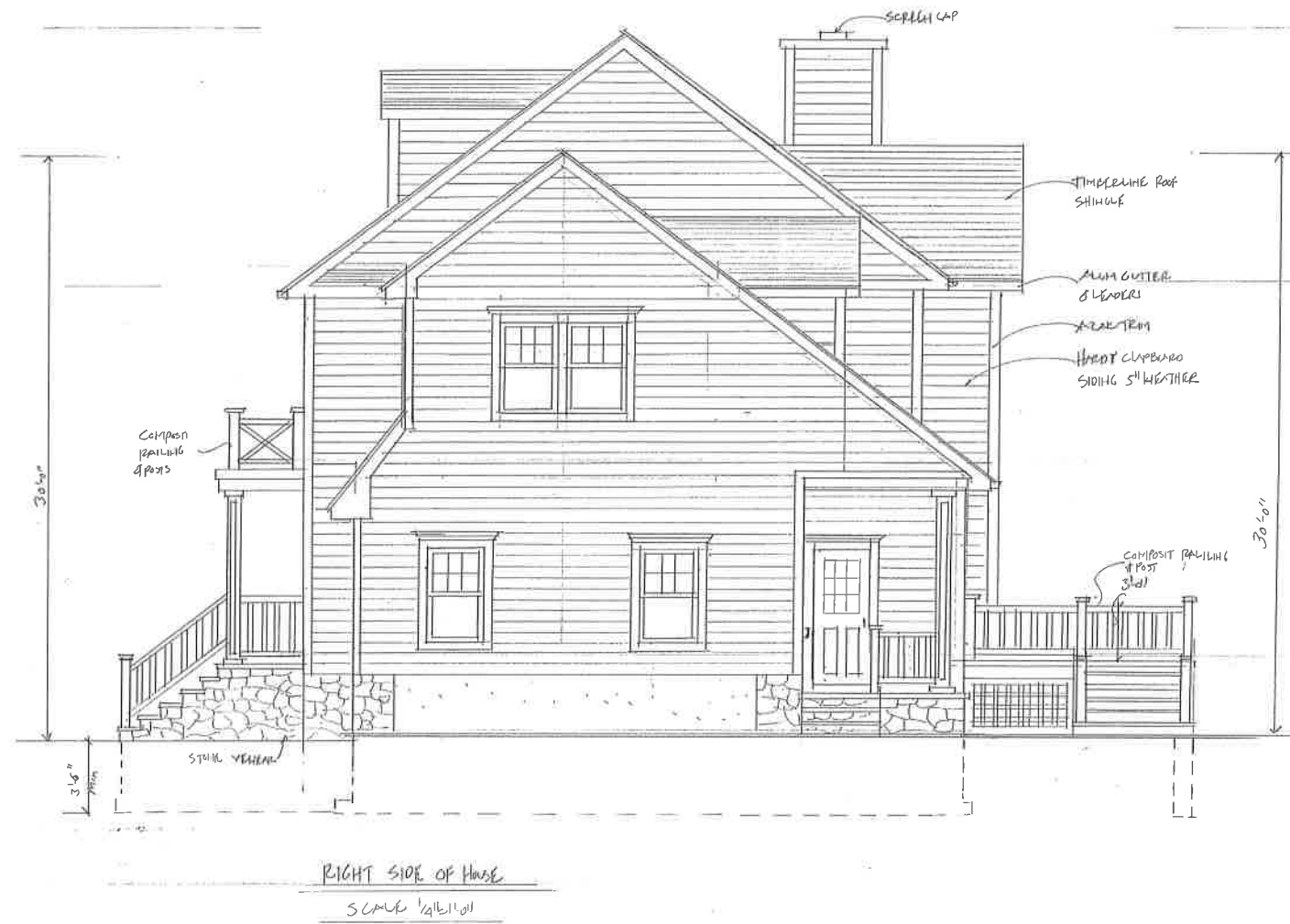
| VILLAGE OF MAMARONECK ZONING COMPARISON CHART | | | |
|---|-------------------|------------|--------------|
| ADDRESS: | SECTION-BLOCK-LOT | ZONE: R-10 | |
| | REQUIRED | EXISTING | PROPOSED |
| MINIMUM LOT AREA (SQR FT) | 10,000 | 10,000 | 10,000 |
| MIN. LOT WIDTH FEET | 100' | | 110' |
| MIN. LOT DEPTH | 100' | | 115' |
| MIN. HABITABLE FLOOR AREA | 2,400 sq. ft. | | 4,049 |
| MAXIMUM HEIGHT (FOOT) | 35 ft. | | 34 ft. 5 in. |
| MINIMUM SETBACKS FRONT | 25 FT | | 25 FT |
| REAR SIDE | 10 FT | | 13 |
| TOTAL TWO SIDES | 25 FT | | 33 |
| REAR | 30 FT | | 33 |
| MAX. COVERAGE (ALL BUILDING) | 35% | | 22% |

NOTES:



PLOT PLAN
SCALE 1"=20'-0"
NOTE INFORMATION FROM
RICHARD SPINELLI 7/6/17





JOHN G.
SCARLATO JR.
ARCHITECT
33 BAYVIEW HILL RD
ARISTON, NY 10504
PHONE 914 278-7350

742 SOUTHVIEW DRIVE LLC
742 SOUTH DRIVE
MAMARONECK, NY 10548

NEW HOME

RIGHT SIDE ELEVATION

A-2



REAR ELEVATION
SCALE 1/4" = 1'-0"



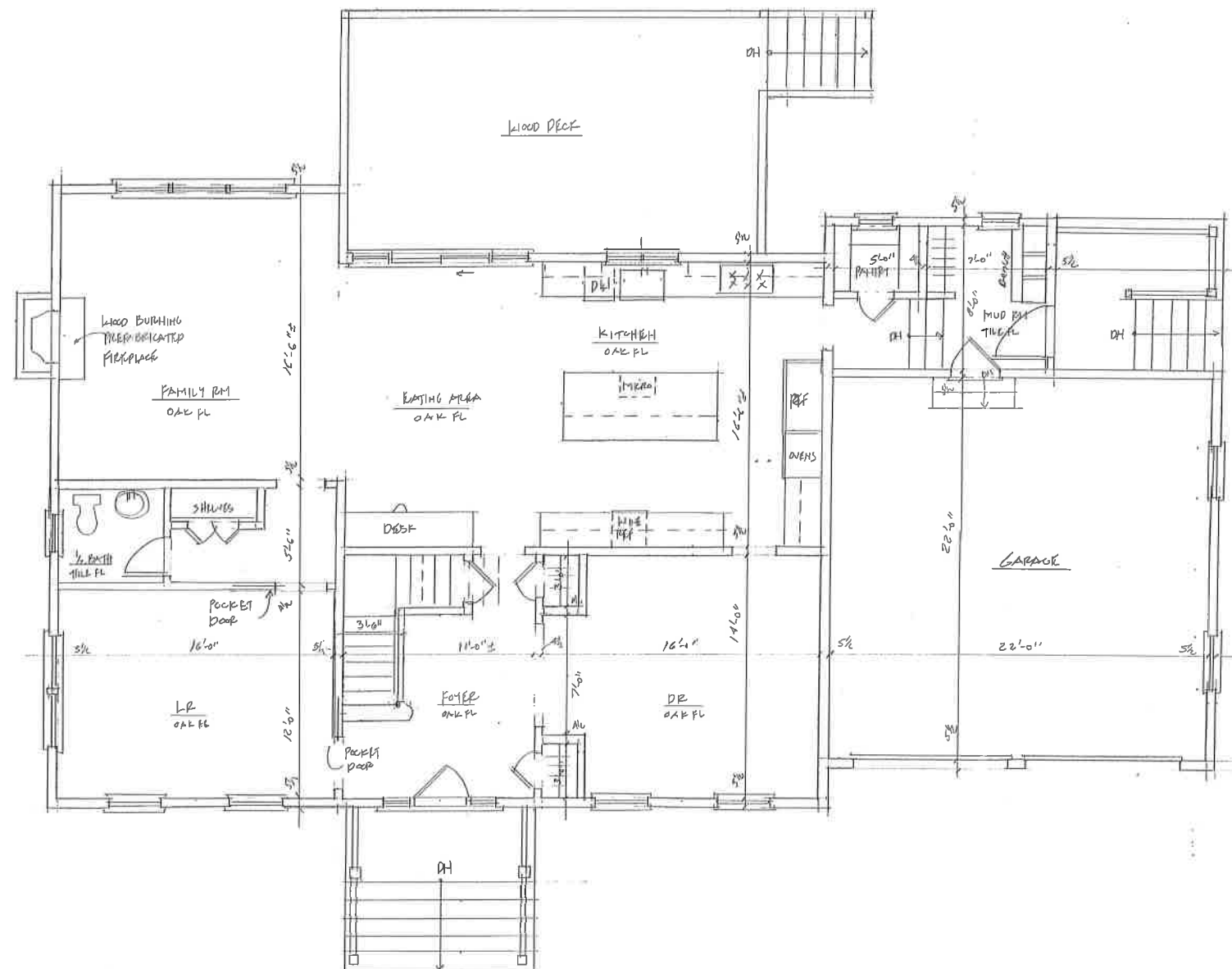
JOHN G.
SCARLATO JR.
ARCHITECT
33 BYRAM HILL RD
ARMONK NY 10504
PHONE 914 273-7350

712 SOUTHVIEW DRIVE LLC
712 SOUTHVIEW DRIVE
PLATMARONETIC, NY 10548

NEW HOME

REAR ELEVATION

A-3



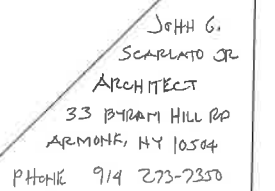
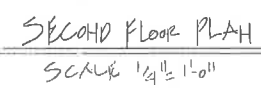
JOHN G.
SCARLATO JR.
ARCHITECT
33 BYRAM HILL RD
ARMONK NY 10504
PHONE 914 273-7350

742 SOUTHVIEW DRIVE LLC
742 SOUTH DRIVE
MANHATTEN, NY 10548

NEW HOME

FIRST FLOOR PLAN

A-5



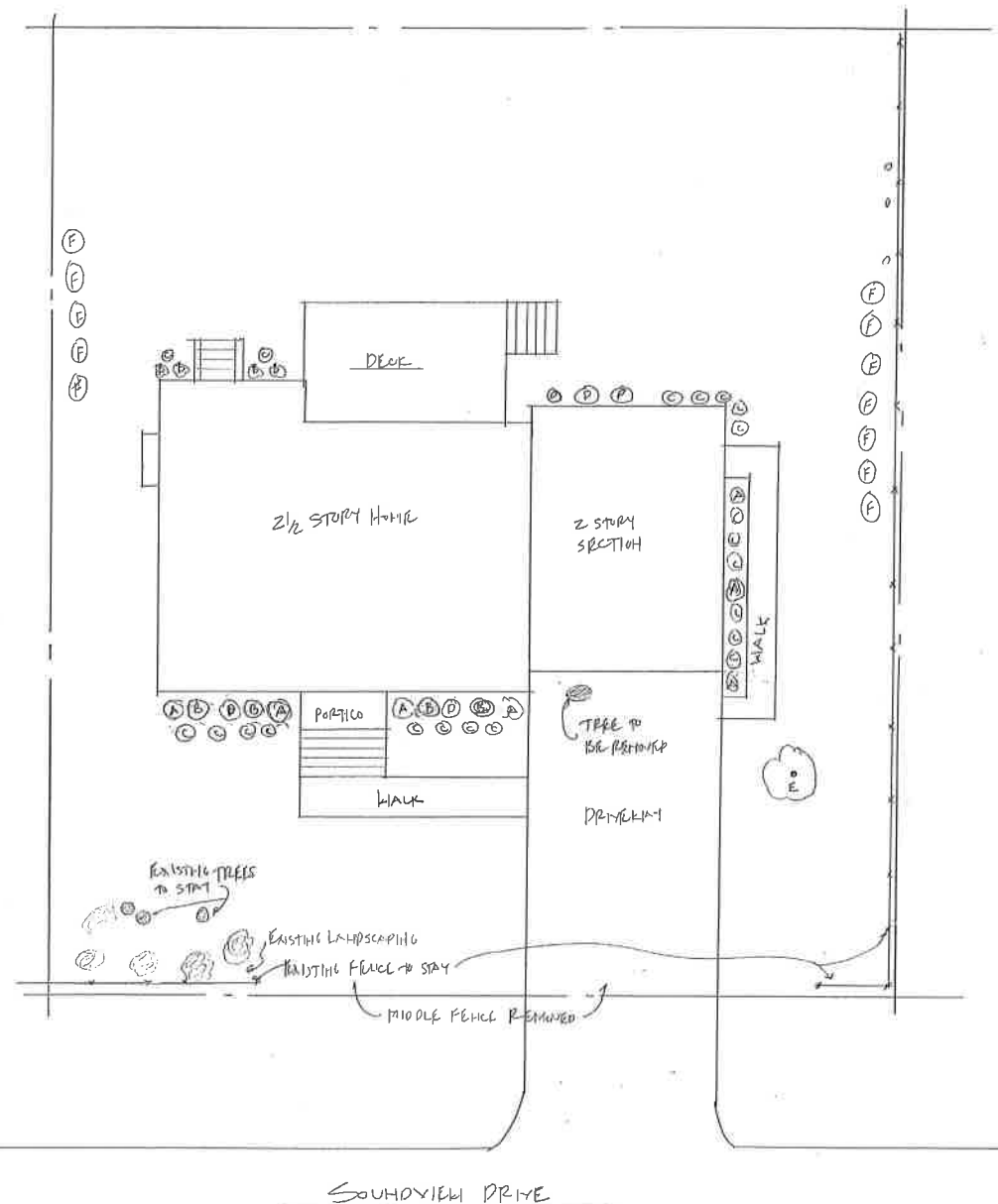
742 SOUTHVIEW DRIVE LLC
742 SOUTH DRIVE
MAMARONECK, NY 10548

NEW HOME


SECOND FLOOR PLAN

A-6

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OCT 6 2017
VILLAGE OF MAMARONECK
BUILDING DEPARTMENT



LANDSCAPE CONCEPT PLAN

| | Flower Color | Height & Spread | Ornamental Features | Hardiness Zones | Growing Conditions |
|---|---|---|---|-----------------|--------------------|
|  | RHODODEN- DRON AZALEA Rhododendron hybrids | Asiatic hybrids with autumn evergreen leaves. Most azaleas are deciduous shrubs. Some cultivars have reddish leaves in winter. Some shrubs, 1- to 1 1/2-in. flowers are red, pink, salmon, white, or coral. | ● ○ ● | | |

The Fastest Growing Quality Evergreen

The Thru Green Giant quickly gives you a lush, rich privacy screen (3-5 feet per year once established).

- Drought tolerant
- Disease & insect resistant
- Easy to grow & very adaptable

You can block out neighbors while taking very little yard space. Thru Green Giants grow in a uniform shape and height. You get that classic French Renaissance look without having to prune or shear.

| LANDSCAPING CHART | | | | | |
|-------------------|---------------|---------------------------|-----------|---------|----------|
| | TYPE OF SHRUB | HEIGHT | CONTAINER | REMARKS | # NEEDED |
| A | TAXUS | 3'-1' | CONTAINER | | 6 |
| B | BOXWOOD | 2' | CONTAINER | | 8 |
| C | AZALEA | 18" | CONTAINER | | 21 |
| D | RHODODENDRON | 3'-1' | CONTAINER | | 3 |
| E | DOGWOOD | 4'-5' TALL 2.5 CALIPER | B & B | | 1 |
| F | GREEN GIANT | 6' | B & B | | 12 |



JOHN G.
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ARLTON, NY 10504
PHONE 914 273-7350

742 SOUTHVIEW DRIVE
742 SOUTHVIEW DRIVE
MAMARONECK, NY

LANDSCAPE CONCEPT PLAN

LANDSCAPE
PLAN



JOHN G.
SCARPATO JR.
ARCHITECT
33 BIRAM HILL RD
ARMONK, NY 10504
914 273-7350

742 SOUNDVIEW DRIVE
742 SOUNDVIEW DRIVE
MAMARONECK, NY

LOT DIAGRAM
FRONT ELEVATION STUDY

Village of Mamaroneck, NY

Item Title: 502 Center Avenue

Item Summary: 502 CENTER AVENUE - FACADE SIGN
APPLICANT: CENTRAL IRRIGATION SUPPLY

Fiscal Impact:

ATTACHMENTS:

| <u>Description</u> | <u>Upload Date</u> | <u>Type</u> |
|---------------------------|---------------------------|--------------------|
| 502 Center | 10/12/2017 | Presentation |

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SEP 22 2017

VILLAGE OF MAMARONECK
SIGN PERMIT APPLICATION

VILLAGE OF MAMARONECK
BUILDING DEPARTMENT

SIGN INFORMATION:

TYPE OF SIGN

office use

☐ Accessory ☐ Awning ☐ Canopy ☐ Directional
☐ Facade ☐ Freestanding ☐ Illuminated ☐ Window

APPLICANT FILL OUT
FOR:

NAME OF BUSINESS Central Irrigation Supply, Inc. dba Central Turb
Irrigation Supply
ADDRESS OF BUSINESS 502 Center Avenue, Mamaroneck

PROPERTY DESCRIPTION; Section 8 Block 25 Lot(s) 405

ZONING DISTRICT: _____

TYPE OF SIGN: ☐ Paint on Board ☐ Individual (pin) Letter ☐ Channel Letter on Raceway ☐ Canopy
☐ Individual Channel Letter ☐ External Illumination ☒ Internal Illumination ☐ Non-Illuminated ☐ Neon Tube

NOTE: all illuminated signs "MUST" COMPLY WITH SECTION 286-11D-1-5 "Illuminated Signs"

SIGN DIMENSIONS: applicant provide dimensions in spaces below

HEIGHT (not to exceed 30") 30"
HORIZONTAL (not to exceed 50 ft. or 75% of length of street frontage of business establishment) 294"
PROJECTION FROM BUILDING (not to exceed 10") 6"
LETTER HEIGHT (not to exceed 18") 18" LETTER STYLE Block
CANOPY PROJECTION (not to exceed 18") _____
HEIGHT OF BOTTOM OF SIGN OR CANOPY OVER THE GRADE OF THE SIDEWALK SURFACE 152"
HEIGHT OF LOWEST POINT OF AWNING OVER THE SIDEWALK (no less than 7') _____
COLOR (S) (not to exceed 3) 1 Blue 2 Green 3 White

FREESTANDING SIGNS:

Survey of property must be submitted with application for a "FREESTANDING SIGN" to establish proper setbacks of building and location of proposed sign. Photographs of the building and all existing signs attached to the building must be submitted with each copy of the application (7) for a review by the Board of Architectural Review, to determine that the facade sign on the building is not "readily visible" from the street, as per Section 286-11 "Regulations".

MEMBERS OF B.A.R. MUST MAKE FIELD INSPECTION OF PROPOSED SITE PRIOR TO THE MEETING TO DETERMINE AT THE MEETING IF SUCH HARDSHIP EXISTS AND APPLICANT QUALIFIES FOR FREESTANDING SIGN. NO APPLICATION FOR A "FREE STANDING" SIGN WILL BE ACCEPTED BY THE BUILDING DEPARTMENT FOR REVIEW WITHOUT THE REQUIRED ITEMS ATTACHED AT TIME OF SUBMISSION.

FREESTANDING SIGN AREA (not to exceed 16 sq. Ft. unless 4 or more contiguous businesses are located together on same property and represented on same sign then 1 common free standing sign not to exceed 32 sq. Ft.)

FREESTANDING SIGN HEIGHT (not to exceed 16 ft. Above roadway grade) _____

VILLAGE OF MAMARONECK
SIGN PERMIT APPLICATION

BUILDING DEPARTMENT



914 777 7731

APPLICANT INFORMATION

APPLICANTS
NAME

Central Irrigation Supply, Inc.

(state whether owner of business or sign fabricator, or architect/agent)

APPLICANTS
ADDRESS

8 Williams St., Elmsford, NY 10523

APPLICANTS PHONE 914 347 5656 x 1020

APPLICANTS SIGNATURE _____

PROPERTY OWNER PERMISSION:

I Bernardo Luciano, owner of record of the property located
at 502 Center Avenue, Mamaroneck, New York 10543
hereby give my permission to the applicant for this sign permit to install the approved Sign upon
the premises stated herein. Furthermore as per the Village Sign Code, I acknowledge that as the
owner of the building that the sign applied for herein must be removed within 90 days from the
time of the business it advertises vacates the premises.

SIGNED

[Signature]

DATE

9/6/17

BUILDING DEPARTMENT OFFICE USE ONLY

DATE OF APPLICATION (SUBMISSION) _____

MEETING DATE _____

RECEIVED IN BLDG. DEPT. BY _____

DISPOSITION _____

APPLICATION FEE _____

FIELD INSPECTION FOR RELEASE OF BOND

PERMIT FEE _____

INSPECTED BY _____

PERFORMANCE BOND _____

DATE _____

CODE REVIEW BY _____

APPROVED FOR AGENDA _____

DISPOSITION _____

502 Central Ave.



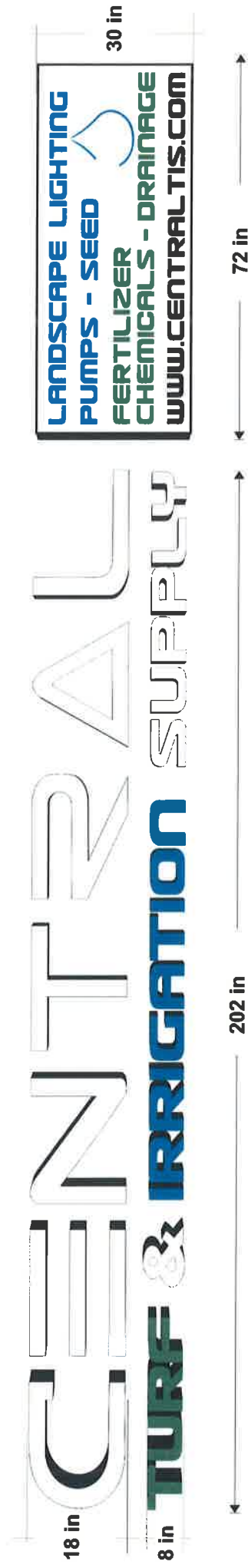
Existing Store Front



Proposed Channel Letters

502 Central Ave.

One Set of Channel Letters Internal Illuminated by LED's



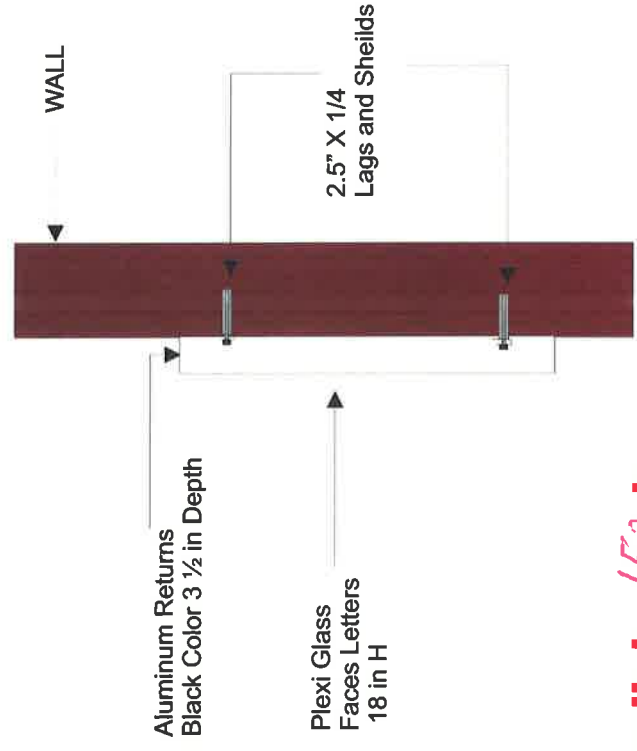
Sign Specifications:

Letter Style: Block
Letter Returns : Black Aluminum
Letter Faces: 3/16 acrylic
Face Trim: Black trimcup
Illumination: by LED's

Overall Sign Dimensions

30 in H
274 in W
3 1/2 in Depth

Description of Attachment



*** Height of bottom of Sign over the grade of sidewalk is 152 in**

Village of Mamaroneck, NY

Item Title: 1517 Park Avenue

Item Summary: 1517 PARK AVENUE - SOLAR PANELS
APPLICANT: SUNRUN INSTALLATION SERVICES - CONTRACTOR

Fiscal Impact:

ATTACHMENTS:

| <u>Description</u> | <u>Upload Date</u> | <u>Type</u> |
|---------------------------|---------------------------|--------------------|
| 1517 Park | 10/12/2017 | Presentation |



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SEP 27 2017

VILLAGE OF MAMARONECK
BUILDING DEPARTMENT

152 S. Broad St
Lansdale, PA 19446
(215) 361-8040

September 13, 2017

Subject: Structural Certification for Proposed Residential Solar Installation.

Job Number: 212R-517PERD; Plan Set: Rev B, Dated 9/12/17

Client: Yolanda Perdomo

Address: 1517 Park Avenue, Mamaroneck, NY, 10543

Attn: To Whom It May Concern

A field observation was performed to document the existing framing of the above mentioned address. From the field observation, the existing roof structure was observed as 1 layer Composition Shingle roofing over roof plywood supported by 2x6 Rafter @ 16" OC. The roof is sloped at approximately 10 degrees and has a max rafter span of 9' 6" between supports.

Design Criteria:

- 2016 New York State Building Code (2015 IBC & IRC)
- Basic Wind Speed Vult = 120 mph (Vasd = 93 mph), Exposure B
- Ground Snow Load = 30 psf

Our analysis is based on the information provided by Sunrun Inc. and is isolated only to the areas where the modules are intended to be placed. After review of the field observation report, the existing roof framing supporting the proposed solar panel layout has been determined to meet or exceed the requirements based on our structural capacity calculations in accordance with applicable building codes. Therefore, no structural upgrades are required.

If you have any further questions on the above for mentioned, please do not hesitate to call.

Sincerely,
Penn Fusion Engineering LLC



Andrew D. Leone, P.E.
Principal



152 S. Broad St
Lansdale, PA 19446
(215) 361-8040

Structural Calculations for the Yolanda Perdomo Residence PV Installation

Date: 9/13/2017
Job Address: 1517 Park Avenue
Mamaroneck, NY, 10543

Job Number: 212R-517PERD

Scope of Work

These calculations are for the existing roof framing which supports the new PV modules as well as the attachment of the PV system to existing roof framing. All PV mounting equipment shall be designed and installed per manufacturer's approved installation specifications.

Calculation Index

Sheet Description

- 2 Structural Geometry, Live Load, Snow Load, Wind Load, & Dead Load
- 3 Roof (1) Framing Check
- 4 Roof Attachment Check, Seismic Check, & Scope of Work

Engineering Calculations Summary

Code: 2016 New York State Building Code (2015 IBC & IRC)
ASCE 7-10

Snow Load: S = 30 psf

Live Load: LL = 20 psf

Wind: Wind Speed Ult. (V) = 120 mph Exp. = B

PV Dead Load: DPV = 3.0 psf

Sincerely,
Penn Fusion Engineering LLC
Andrew D. Leone, P.E.
Principal



Structure Geometry:

| | | |
|-------------------------|---|--------------------|
| Mean Roof Height, h_n | = | 22 ft |
| Eave Height, h_e | = | 18 ft |
| Building Length, L | = | 45 ft |
| Building Width, B | = | 20 ft |
| Module Area | = | 20 ft ² |
| Roof Pitch, θ | = | 10 degrees |

Live Load:

| | | | |
|-----------------------|---|-----------|----------------|
| Roof Live Load, L_r | = | 20.00 psf | Equation 4.8-1 |
|-----------------------|---|-----------|----------------|

Snow Load:

| | | | |
|-----------------------------------|---|-------------|----------------|
| Ground Snow Load, p_g | = | 30 psf | Fig. 7-1 |
| Snow Importance Factor, I_s | = | 1 | Table 1.5-1 |
| Thermal Factor, C_t | = | 1.1 | Table 7-3 |
| Exposure Factor, C_e | = | 0.9 | Table 7-2 |
| Roof Slope Factor, C_s | = | 1.00 | Figure 7-2c |
| Flat Snow Load, P_f | = | Sloped Roof | Equation 7.3-1 |
| Sloped Roof Snow Loads, P_s | = | 20.79 psf | Equation 7.4-1 |
| Is the width of the roof > 20ft? | = | Yes | |
| Drift Height, h_d | = | 1.44 ft | Figure 7-9 |
| Roof slope for a rise of one, S | = | 5.67 | |
| Unbalanced Width | = | 9.12 ft | Fig 7-5 |
| γ | = | 18 pcf | Equation 7.7-1 |
| Unbalanced Snow Load | = | 31.58 psf | Fig 7-5 |

Wind Load:

| | | | |
|---------------------------------|---|-----------|-----------------|
| Basic Wind Speed (3s-gust), V | = | 120.0 mph | Figure 26.5-1A |
| Building Occupancy Category | = | 2 | Table 1.5-1 |
| Exposure Category | = | B | Sec 26.7.3 |
| Topographic Factor, K_{zt} | = | 1.00 | Equation 26.8-1 |
| Adjustment Factor, λ | = | 1.00 | Figure 30.5-1 |
| Edge Zone, a | = | 3.00 ft | Figure 30.5-1 |

| | | | | |
|---|--------------|--------------|--------------|------------------------|
| <u>Uplift (0.6W)</u> | Zone 1 (psf) | Zone 2 (psf) | Zone 3 (psf) | |
| P_{net30} | = | -23.00 | -38.00 | -57.10 Figure 30.5-1 |
| $P_{net} = 0.6 \times \lambda \times K_{zt} \times P_{net30}$ | = | -13.80 | -22.80 | -34.26 Equation 30.5-1 |

| | | | | |
|---|--------------|--------------|--------------|----------------------|
| <u>Downward (0.6W)</u> | Zone 1 (psf) | Zone 2 (psf) | Zone 3 (psf) | |
| P_{net30} | = | 13.60 | 13.60 | 13.60 Figure 30.5-1 |
| $P_{net} = 0.6 \times \lambda \times K_{zt} \times P_{net30}$ | = | 9.60 | 9.60 | 9.60 Equation 30.5-1 |

Dead Load:

Roof (1):

| Roof | | Walls - Exterior | |
|-----------------------------------|----------|--------------------------|----------|
| Composition Shingle | 3.0 psf | Wood | 5.0 psf |
| 5/8 OSB Sheathing | 2.0 | 2x4 Studs @ 16" | 2.0 |
| 2x6 Rafter @ 16" OC | 2.0 | Gypsum | 3.0 |
| Misc. (Ceiling, Insulation, etc.) | 0.0 | Misc. (Insulation, etc.) | 2.0 |
| PV System, P_{pv} | 3.0 | | |
| Total Roof DL = | 10.0 psf | Total Wall DL = | 12.0 psf |

Roof (1) Framing Check:

Roof Framing = 2x6 Rafter @ 16" OC
Timber Species = Doug Fir-Larch #2
Max Beam Span = 9.50 ft
b = 1.5 in
d = 5.50 in
Moment of Inertia, I_x = 20.80 in⁴
Section Modulus, S_x = 7.56 in³
Bending Stress, F_b = 900 psi
Elastic Modulus, E_{min} = 580000 psi

| | | | | | |
|--------------------------|-----------------------|-----------------------|-----------------|----------------|----------------|
| Wood Adjustment Factors: | C _D (Wind) | C _D (Snow) | C _{LS} | C _M | C _t |
| | 1.60 | 1.15 | 1.01 | 1.00 | 1.00 |
| | C _L | C _F | C _{fu} | C _i | C _r |
| | 1.00 | 1.30 | 1.00 | 1.00 | 1.15 |

PV Tributary Width, W_{PV} = 2.77 ft
PV Tributary Length, L_{PV} = 4.0 ft
PV Tributary Area, A_t = 11.1 ft²
PV Dead Point Load, P_D = P_{PV} x A_t = 33 lb
Roof Distributed Load, wDL = 9 plf

Load Case: 0.6DL + 0.6W (CD = 1.6)

Roof Zone = 1
P_{up} = P_{net} x A_t + 0.6 x P_D x cos(θ) = 133 lb
M_{b(wind_up)} = 384 lb-ft
F_{b'} (wind) = F_b x C_D x C_{LS} x C_M x C_t x C_L x C_F x C_{fu} x C_i x C_r = 2174 psi
Mallowable = S_x x F_{b'} (wind) = 1370 lb-ft > 384 OK

Load Case: DL + 0.6W (CD = 1.6)

P_{down} = P_{net} x A_t + P_D x cos(θ) = 139 lb
M_{b(wind_down)} = 570 lb-ft
F_{b'} (wind) = F_b x C_D x C_{LS} x C_M x C_t x C_L x C_F x C_{fu} x C_i x C_r = 2174 psi
Mallowable = S_x x F_{b'} (wind) = 1370 lb-ft > 570 OK

Load Case: DL + 0.75(0.6W) + 0.75S (CD = 1.6)

Roof Snow Distributed Load, wSL = 28 plf
P_{snow} = P_s x A_t = 227 lb
M_{b(wind_snow)} = 1051 lb-ft
F_{b'} (wind) = F_b x C_D x C_{LS} x C_M x C_t x C_L x C_F x C_{fu} x C_i x C_r = 2174 psi
Mallowable = S_x x F_{b'} (snow) = 1370 lb-ft > 1051 OK

Load Case: DL + S (CD = 1.15)

Roof Snow Distributed Load, wSL = 28 plf
P_{snow} = P_s x A_t = 227 lb
M_{b(snow)} = 977 lb-ft
F_{b'} (snow) = F_b x C_D x C_{LS} x C_M x C_t x C_L x C_F x C_{fu} x C_i x C_r = 1563 psi
Mallowable = S_x x F_{b'} (snow) = 985 lb-ft > 977 OK



Rafter Attachments: 0.6D+0.6W (Zone 2)

| | | | | |
|--|---|-----------|-------------------|--------|
| Puplift = At X Pnet | = | 233 lb | | |
| Connector Uplift Capacity per SnapNRack Test Results | = | 500 lb | > | 233 OK |
| 5/16" Lag Screw Withdrawl Value | = | 266 lb/in | Table 12.2A - NDS | |
| Lag Screw Penetration | = | 2.5 in | | |
| Allowable Capacity with Cd | = | 1064 lb | > | 233 OK |

Seismic Check:

| Existing Dead Load: | | Solar Dead Load: | |
|---------------------|------------|------------------|----------|
| Aroofexisting | = 900 ft² | Wpanel | = 42 lb |
| Wroofexisting | = 6300 lb | Numpanel | = 9 |
| Awallexisting | = 2340 ft² | Wpanel_tot | = 378 lb |
| Wwallexisting | = 28080 lb | Wbos | = 88 lb |
| Wtotal | = 34380 lb | Warray | = 466 lb |

%Increase = (Wtotal + Warray) / Wtotal = $\frac{34846}{34380}$ *100%-100% = 1.36% **

**The increase in weight as a result of the solar system is less than 10% of the existing structure and therefore no further seismic analysis is required.

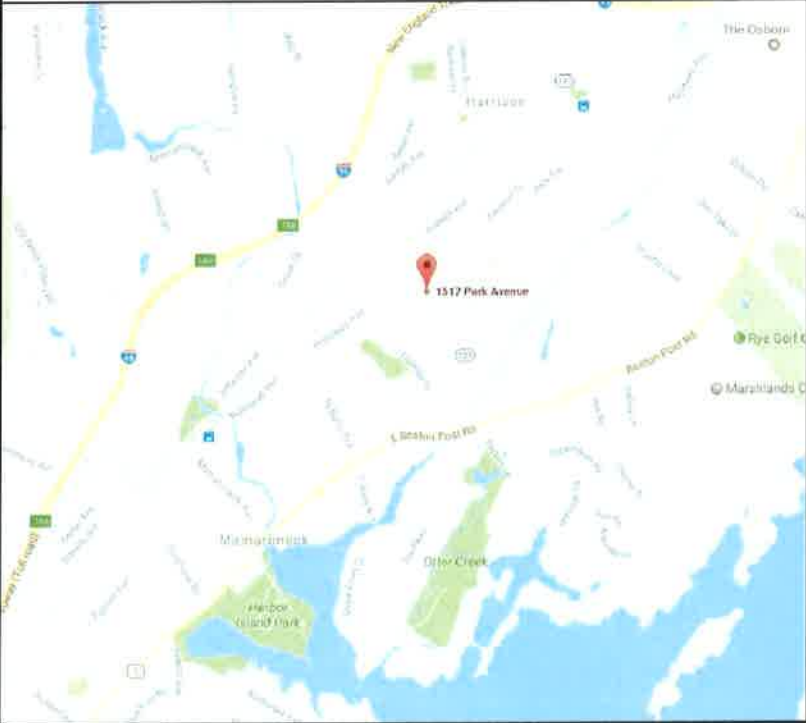
Limits of Scope of Work and Liability

We have based our structural capacity determination on applicable building codes, professional engineering inspection and design experience, opinions and judgments. The calculations produced for this dwelling's assessment are only for the proposed solar panel installation referenced in the stamped plan set and were made according to generally recognized structural analysis standards and procedures.

SCOPE OF WORK

- **SYSTEM SIZE:** 2970W DC, 3000W AC
- **MODULES:** (9) LG ELECTRONICS: LG330N1C-A5
- **INVERTER(S):**
(1) SOLAREDGE TECHNOLOGIES: SE3000H-US WITH REVENUE GRADE METERING
- **RACKING:** SNAPRACK SERIES 100 UL; FLASHED L FOOT. SEE PEN D01.

VICINITY MAP



GENERAL NOTES

- ALL WORK SHALL COMPLY WITH 2014 NEC, 2015 IBC, MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS.
- PHOTOVOLTAIC SYSTEM WILL COMPLY WITH 2014 NEC.
- ELECTRICAL SYSTEM GROUNDING WILL COMPLY WITH 2014 NEC.
- PHOTOVOLTAIC SYSTEM IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER. SYSTEM COMPLIES WITH 690.35.
- MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.
- INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741.
- RACKING CONFORMS TO AND IS LISTED UNDER UL 2703.
- CONSTRUCTION FOREMAN TO PLACE CONDUIT RUN PER 690.31(G).
- ARRAY DC CONDUCTORS ARE SIZED FOR DERATED CURRENT.
- 10.45 AMPS MODULE SHORT CIRCUIT CURRENT.
- 16.32 AMPS DERATED SHORT CIRCUIT CURRENT (690.8 (a) & 690.8 (b)).

LEGEND AND ABBREVIATIONS

SE

SERVICE ENTRANCE

MP

MAIN PANEL

SP

SUB-PANEL

LC

PV LOAD CENTER

SM

SUNRUN METER

PM

DEDICATED PV METER

INV

INVERTER(S) WITH INTEGRATED DC DISCONNECT AND AFCI

AC

AC DISCONNECT(S)

DC

DC DISCONNECT(S)

CB

COMBINER BOX

INTERIOR EQUIPMENT SHOWN AS DASHED

SOLAR MODULES
RAIL
STANDOFFS & FOOTINGS

CHIMNEY

ATTIC VENT

FLUSH ATTIC VENT

PVC PIPE VENT

METAL PIPE VENT

T-VENT

SATELLITE DISH

FIRE SETBACKS

HARDSCAPE

— PL — PROPERTY LINE

SCALE: NTS

A

AMPERE

AC

ALTERNATING CURRENT

AFCI

ARC FAULT CIRCUIT INTERRUPTER

AZIM

AZIMUTH

COMP

COMPOSITION

DC

DIRECT CURRENT

(E)

EXISTING

EXT

EXTERIOR

FRM

FRAMING

INT

INTERIOR

LBW

LOAD BEARING WALL

MAG

MAGNETIC

MSP

MAIN SERVICE PANEL

(N)

NEW

NTS

NOT TO SCALE

OC

ON CENTER

PRE-FAB

PRE-FABRICATED

PSF

POUNDS PER SQUARE FOOT

PV

PHOTOVOLTAIC

TL

TRANSFORMERLESS

TYP

TYPICAL

V

VOLTS

W

WATTS

| REV | NAME | DATE | COMMENTS |
|-----|------|------|----------|
| A | | | |
| | | | |
| | | | |

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| PV-1.0 | COVER SHEET |
| PV-2.0 | SITE PLAN |
| PV-3.0 | LAYOUT |
| PV-3.1 | ATTACHMENT DETAIL |
| PV-4.0 | ELECTRICAL |
| PV-5.0 | SIGNAGE |

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PROJECT NUMBER:
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DESIGNER: 720.475.7995
MARGARET CAULEY

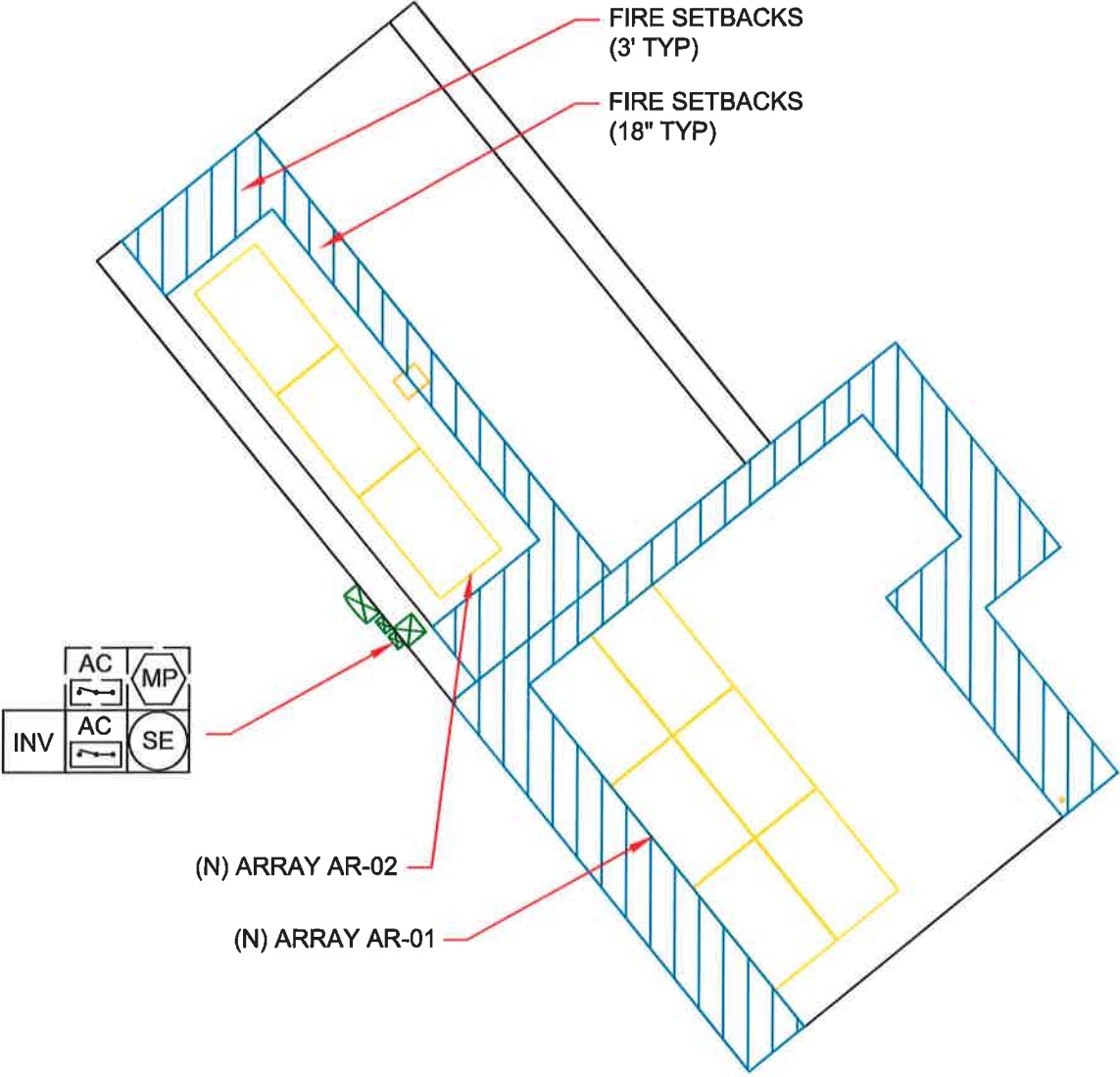
DRAFTER:
MARGARET CAULEY

SHEET
COVER SHEET

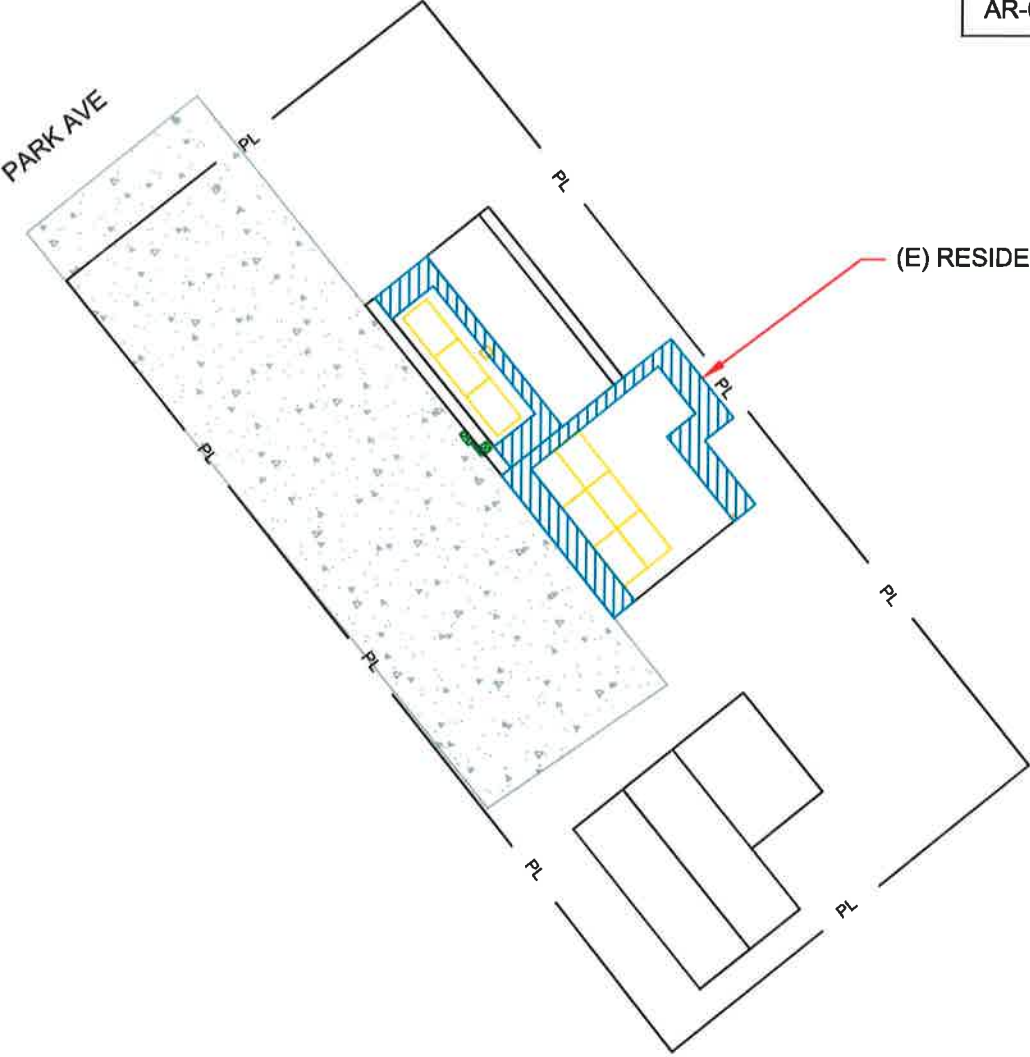
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SITE PLAN DETAIL - SCALE = 1/8" = 1'-0"



SITE PLAN - SCALE = 3/64" = 1'-0"



| | PITCH | TRUE AZIM | MAG AZIM | PV AREA (SQFT) |
|-------|-------|-----------|----------|----------------|
| AR-01 | 10° | 141° | 153° | 110.6 |
| AR-02 | 10° | 231° | 243° | 55.3 |



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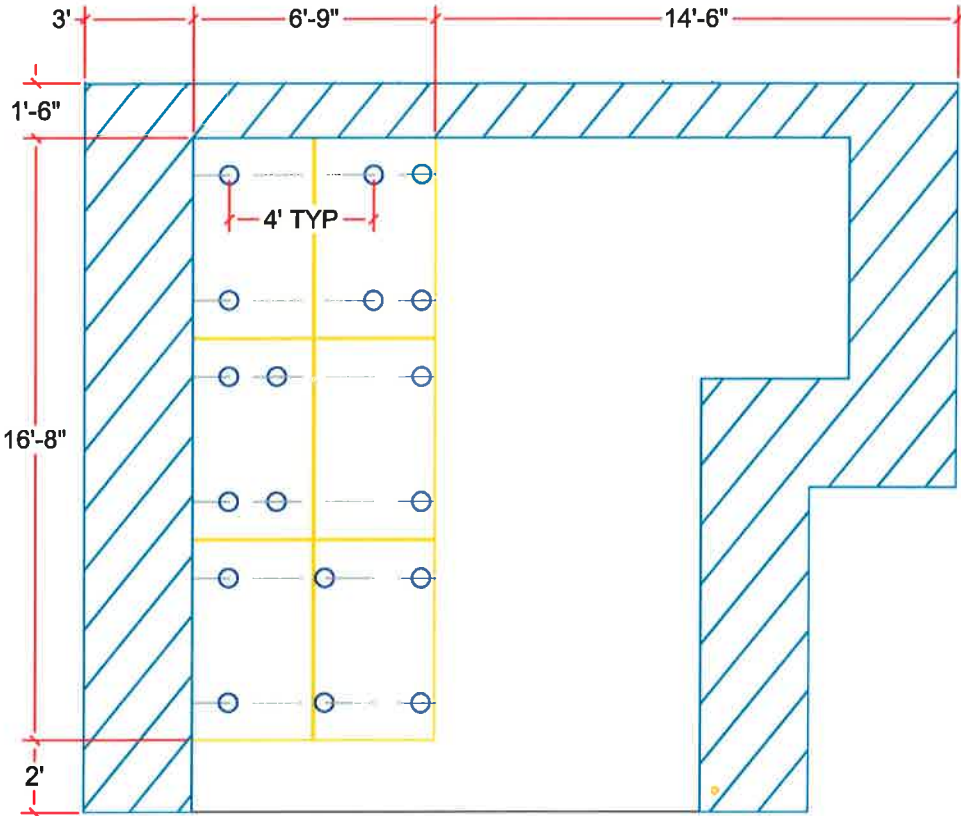
SHEET
SITE PLAN

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PV-2.0

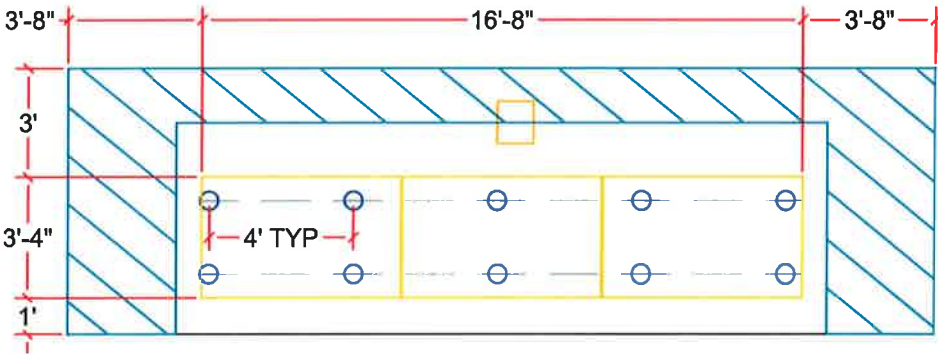
| | ROOF TYPE | ATTACHMENT | ROOF HEIGHT | ROOF EXPOSURE | FRAME MATERIAL | FRAME TYPE | FRAME SIZE | MAX FRAME SPAN | OC SPACING | ROOF EDGE ZONE | MAX RAIL SPAN | MAX RAIL OVERHANG | DESIGN CRITERIA |
|-------|--------------|------------------------------|--------------|---------------|----------------|------------|------------|----------------|------------|----------------|---------------|-------------------|--|
| AR-01 | COMP SHINGLE | FLASHED L FOOT. SEE PEN D01. | SINGLE STORY | VAULTED | WOOD | RAFTER | 2 X 6 | 18' - 8" | 16" | N/A | 4'-0" | 1'-4" | MODULES: LG ELECTRONICS: LG330N1C-A5 MODULE DIMS: 66.38" x 40" x 1.57" MODULE CLAMPS: Portrait: 5.9" - 15.7" Landscape: 0" - 4.7" MAX DISTRIBUTED LOAD: 3 PSF SNOW LOAD: 30 PSF WIND SPEED: 120 MPH 3-SEC GUST. LAG SCREWS: 5/16"x3.5": 2.5" MIN EMBEDMENT NOTE: INSTALLERS TO VERIFY RAFTER SIZE, SPACING AND SLOPED SPANS, AND NOTIFY E.O.R. OF ANY DISCREPANCIES BEFORE PROCEEDING. PENETRATION SPACING: STAGGERED |
| AR-02 | COMP SHINGLE | FLASHED L FOOT. SEE PEN D01. | TWO STORY | VAULTED | WOOD | RAFTER | 2 X 6 | 7' - 4" | 16" | N/A | 4'-0" | 1'-4" | |

D1 - AR-01 - SCALE: 3/16" = 1'-0"
PITCH: 10°
AZIM: 141°



COMPOSITE SHINGLE ROOF AT 10° PITCH AND 141° AZIMUTH (SOUTHEAST ORIENTATION). STRUCTURE IS 2X6 WOOD RAFTERS AT 16" O.C.

D2 - AR-02 - SCALE: 3/16" = 1'-0"
PITCH: 10°
AZIM: 231°



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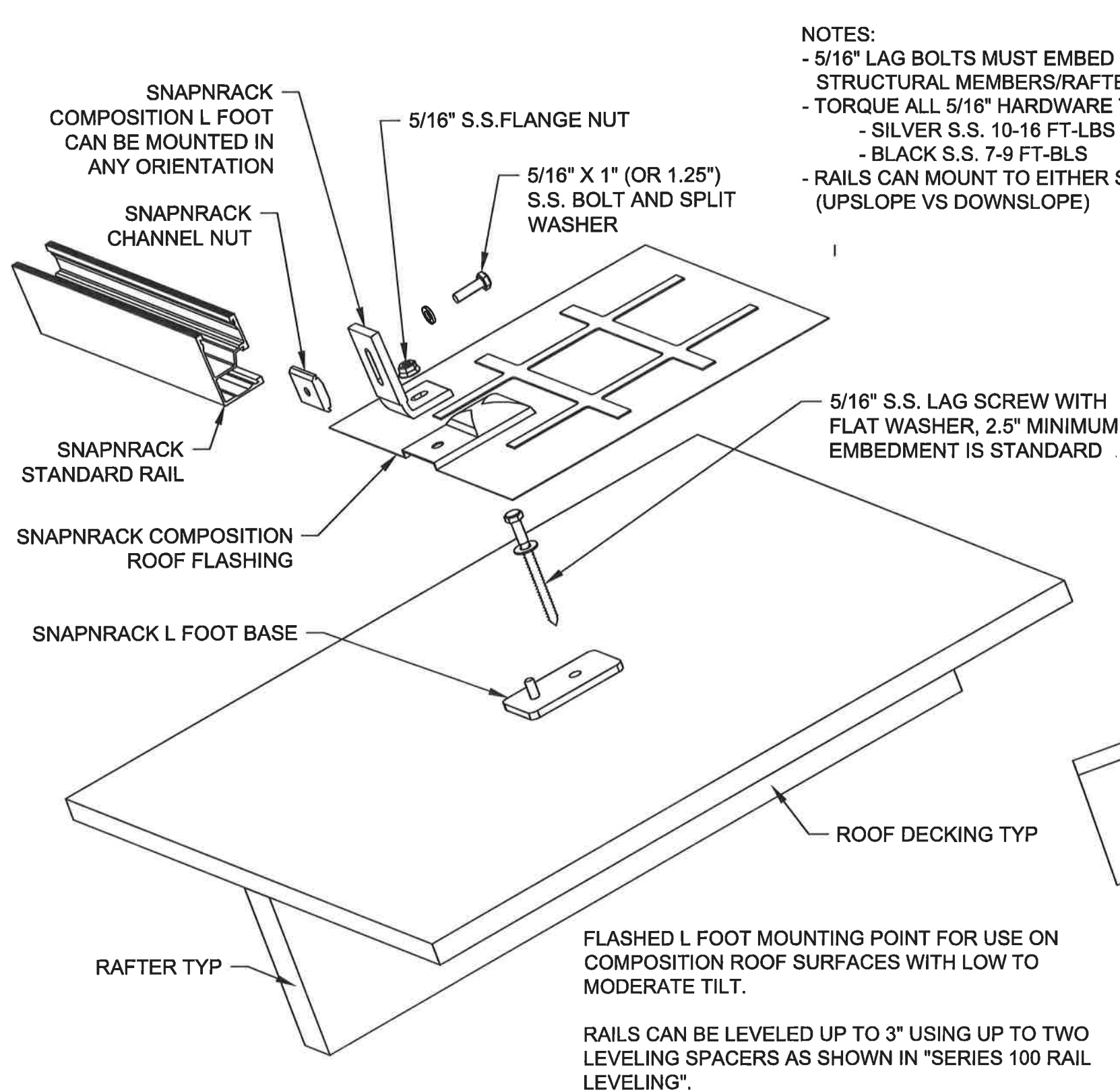
DESIGNER: 720.475.7995
MARGARET CAULEY

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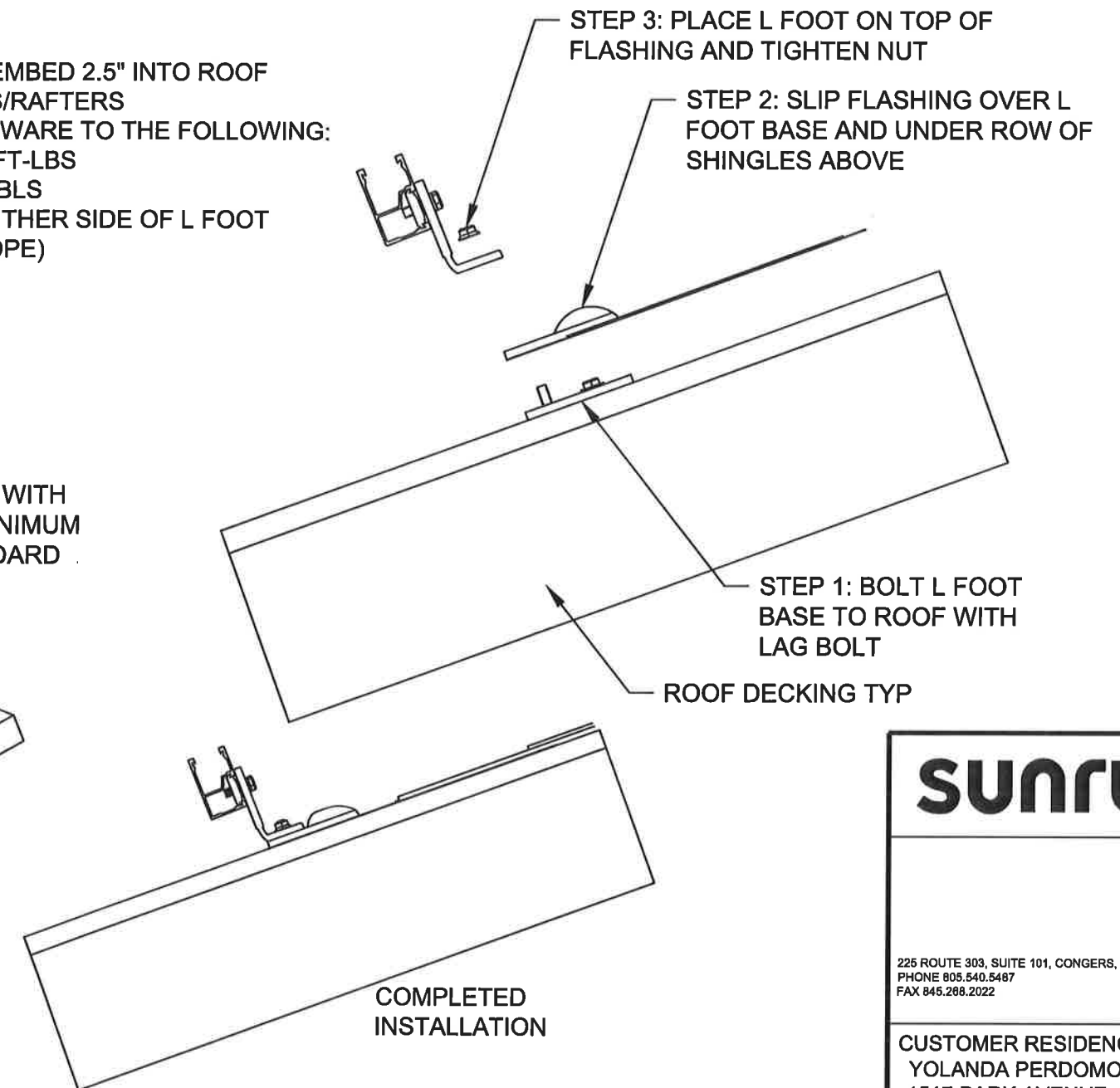
SHEET
LAYOUT

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PV-3.0



- NOTES:
- 5/16\" LAG BOLTS MUST EMBED 2.5\" INTO ROOF STRUCTURAL MEMBERS/RAFTERS
 - TORQUE ALL 5/16\" HARDWARE TO THE FOLLOWING:
 - SILVER S.S. 10-16 FT-LBS
 - BLACK S.S. 7-9 FT-LBS
 - RAILS CAN MOUNT TO EITHER SIDE OF L FOOT (UPSLOPE VS DOWNSLOPE)



PEN DETAIL 01, FLASHED L FOOT TO RAFTER

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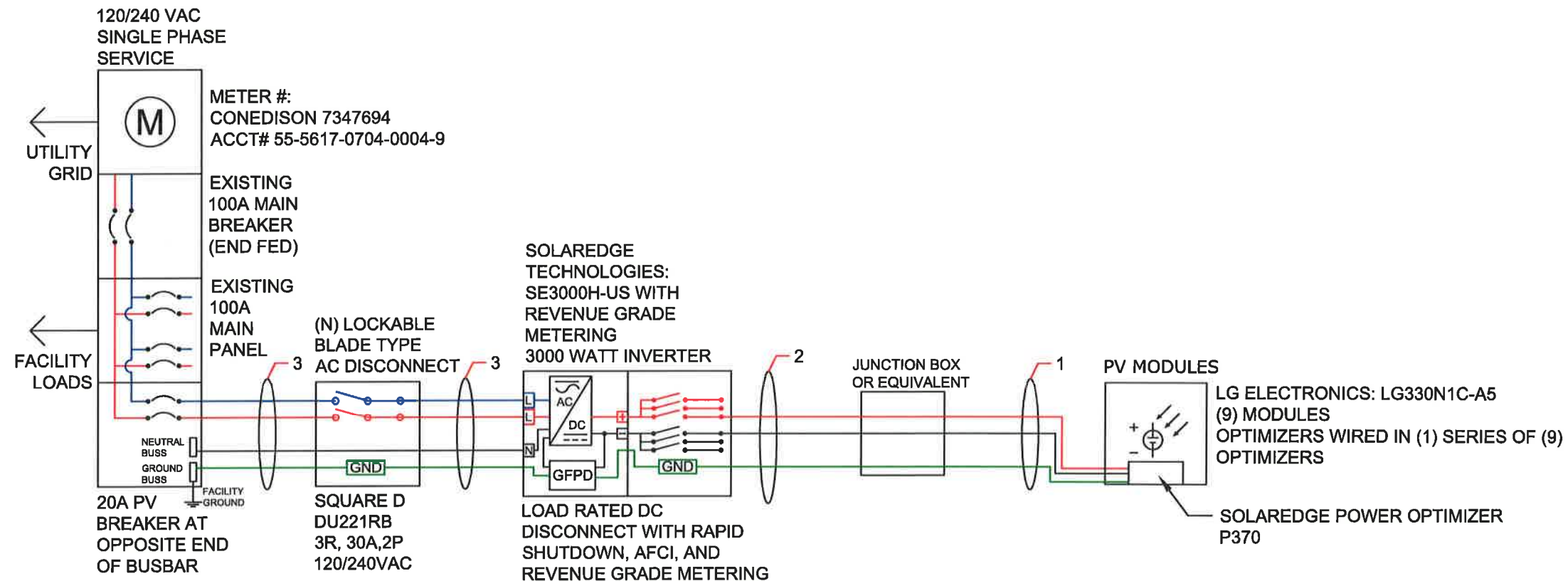
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SHEET ATTACHMENT
DETAIL

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PAGE PV-3.1



CONDUIT SCHEDULE

| # | CONDUIT | CONDUCTOR | NEUTRAL | GROUND |
|---|--------------------|------------------------|------------------------|------------------------|
| 1 | NONE | (2) 10 AWG PV WIRE | NONE | (1) 10 AWG BARE COPPER |
| 2 | 3/4" EMT OR EQUIV. | (2) 10 AWG THHN/THWN-2 | NONE | (1) 10 AWG THHN/THWN-2 |
| 3 | 3/4" EMT OR EQUIV. | (2) 10 AWG THHN/THWN-2 | (1) 10 AWG THHN/THWN-2 | (1) 8 AWG THHN/THWN-2 |

NOTES TO INSTALLER:

- 9 VDC EXPECTED OPEN CIRCUIT STRING VOLTAGE.
- ADD 20 AMP PV BREAKER TO MAIN PANEL.

MODULE CHARACTERISTICS

LG ELECTRONICS:
 LG330N1C-A5: 330 W
 OPEN CIRCUIT VOLTAGE: 40.9 V
 MAX POWER VOLTAGE: 33.7 V
 SHORT CIRCUIT CURRENT: 10.45 A

P370 OPTIMIZER CHARACTERISTICS:

MIN INPUT VOLTAGE: 8 VDC
 MAX INPUT VOLTAGE: 60 VDC
 MAX INPUT ISC: 11 ADC
 MAX OUTPUT CURRENT: 15 ADC

SYSTEM CHARACTERISTICS - INVERTER 1

SYSTEM SIZE: 2970 W
 SYSTEM OPEN CIRCUIT VOLTAGE: 9 V
 SYSTEM OPERATING VOLTAGE: 350 V
 MAX ALLOWABLE DC VOLTAGE: 500 V
 SYSTEM OPERATING CURRENT: 8.5 A
 SYSTEM SHORT CIRCUIT CURRENT: 15 A

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SHEET
 ELECTRICAL

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PAGE
 PV-4.0

**WARNING**

ELECTRICAL SHOCK HAZARD

DO NOT TOUCH TERMINALS.
TERMINALS ON LINE AND LOAD
SIDES MAY BE ENERGIZED IN
THE OPEN POSITION

LABEL LOCATION:
INVERTER(S), AC DISCONNECT(S), AC COMBINER PANEL
(IF APPLICABLE).
PER CODE(S): CEC 2016: 690.17(E), NEC 2014: 690.17(E),
NEC 2011: 690.17(4)

**WARNING**

ELECTRICAL SHOCK HAZARD

IF GROUND FAULT IS INDICATED
ALL NORMALLY GROUNDED
CONDUCTORS MAY BE
UNGROUND AND ENERGIZED

LABEL LOCATION:
INVERTER(S), ENPHASE ENVOY ENCLOSURE (IF
APPLICABLE).
PER CODE(S): CEC 2016: 690.5(C), NEC 2014: 690.5(C),
NEC 2011: 690.5(C)

**WARNING**

ELECTRICAL SHOCK HAZARD

THE DC CONDUCTORS OF THIS
PHOTOVOLTAIC SYSTEM ARE
UNGROUND AND MAY BE
ENERGIZED

LABEL LOCATION:
INVERTER(S), DC DISCONNECTS.
PER CODE(S): CEC 2016: 690.35(F), NEC
2014: 690.35(F), NEC 2011: 690.35(F)

**WARNING**

INVERTER OUTPUT CONNECTION

DO NOT RELOCATE THIS
OVERCURRENT DEVICE

LABEL LOCATION:
ADJACENT TO PV BREAKER (IF
APPLICABLE).
PER CODE(S): CEC 2016:
705.12(D)(2)(3)(b), NEC 2014:
705.12(D)(2)(3)(b), NEC 2011: 705.12(D)(7)

**WARNING**

DUAL POWER SUPPLY

SOURCES: UTILITY GRID
AND PV SOLAR ELECTRIC
SYSTEM

LABEL LOCATION:
UTILITY SERVICE METER AND MAIN
SERVICE PANEL.
PER CODE(S): CEC 2016: 705.12(D)(3),
NEC 2014: 705.12(D)(3), NEC 2011:
705.12(D)(4)

**WARNING**

PHOTOVOLTAIC SYSTEM
COMBINER PANEL

DO NOT ADD LOADS

LABEL LOCATION:
PHOTOVOLTAIC AC COMBINER (IF
APPLICABLE).
PER CODE(S): CEC 2016:
705.12(D)(2)(3)(c), NEC 2014:
705.12(D)(2)(3)(c), NEC 2011: 705.12(D)(4)

**WARNING: PHOTOVOLTAIC
POWER SOURCE**

LABEL LOCATION:
INTERIOR AND EXTERIOR DC CONDUIT EVERY 10 FT, AT EACH TURN, ABOVE AND
BELOW PENETRATIONS, ON EVERY JB/PULL BOX CONTAINING DC CIRCUITS.
PER CODE(S): CEC 2016: 690.31(G)(3), 690.31(G)(4), NEC 2014: 690.31(G)(3),
690.31(G)(4), NEC 2011: 690.31(E)(3), 690.31(E)(4), IFC 2012: 605.11.1.4

**PHOTOVOLTAIC SYSTEM
EQUIPPED WITH
RAPID SHUTDOWN**

LABEL LOCATION:
UTILITY SERVICE ENTRANCE/METER, OR AS REQUIRED BY LOCAL AHJ.
PER CODE(S): CEC 2016: 690.12, NEC 2014: 690.12, NEC 690.56, IFC 2012: 605.11.1

PHOTOVOLTAIC AC DISCONNECT

MAXIMUM AC OPERATING CURRENT: 12.50 AMPS

NOMINAL OPERATING AC VOLTAGE: 240 VAC

LABEL LOCATION:
AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF
INTERCONNECTION.
PER CODE(S): CEC 2016: 690.54, NEC 2014: 690.54, NEC
2011: 690.54

INVERTER 1

PHOTOVOLTAIC DC DISCONNECT

RATED MAXIMUM POWER-POINT CURRENT: 8.5 ADC

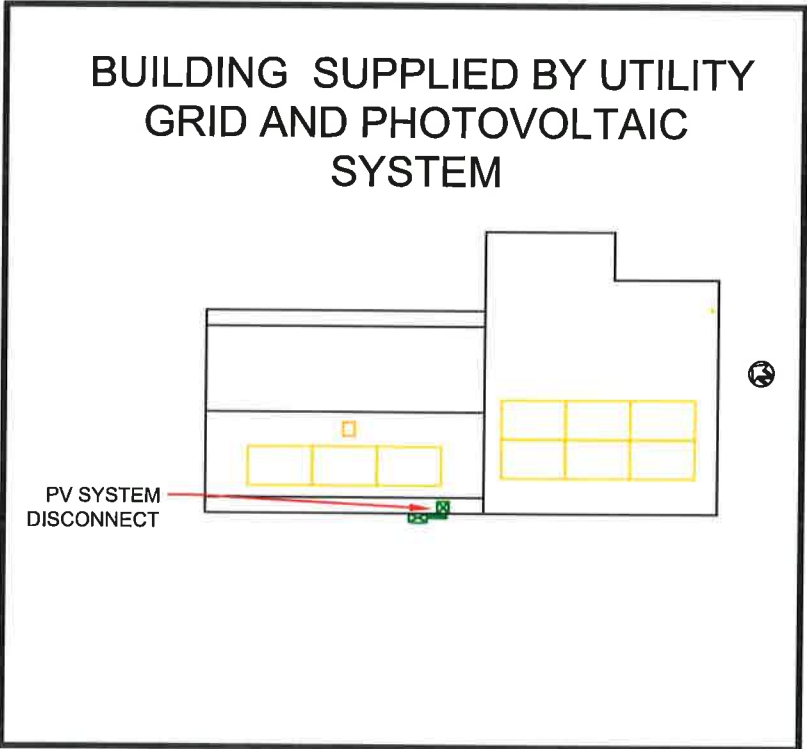
RATED MAXIMUM POWER-POINT VOLTAGE: 350 VDC

MAXIMUM SYSTEM VOLTAGE: 500 VDC

MAXIMUM SHORT CIRCUIT CURRENT: 15 ADC

LABEL LOCATION:
INVERTER(S), DC DISCONNECT(S).
PER CODE(S): CEC 2016: 690.53, NEC 2014: 690.53, NEC
2011: 690.53

- NOTES AND SPECIFICATIONS:**
- SIGNS AND LABELS SHALL MEET THE REQUIREMENTS OF THE CEC 2016 AND
NEC 2014 ARTICLE 110.21(B), UNLESS SPECIFIC INSTRUCTIONS ARE REQUIRED
BY SECTION 690, OR IF REQUESTED BY THE LOCAL AHJ.
 - SIGNS AND LABELS SHALL ADEQUATELY WARN OF HAZARDS USING EFFECTIVE
WORDS, COLORS AND SYMBOLS.
 - LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING
METHOD AND SHALL NOT BE HAND WRITTEN.
 - LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT
INVOLVED.
 - SIGNS AND LABELS SHALL COMPLY WITH ANSI Z535.4-2011, PRODUCT SAFETY
SIGNS AND LABELS, UNLESS OTHERWISE SPECIFIED.
 - DO NOT COVER EXISTING MANUFACTURER LABELS.



LABEL LOCATION:
POINT OF INTERCONNECTION
(PER CODE: NEC690.56(B), NEC705.10, 225.37, 230.2(E))

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SHEET
SIGNAGE

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PAGE
PV-5.0

Village of Mamaroneck, NY

Item Title: 912 Sylvan Lane

Item Summary: 912 SYLVAN LANE - DECK
APPLICANT: HDR CONTRACTING - CONTRACTOR

Fiscal Impact:

ATTACHMENTS:

| <u>Description</u> | <u>Upload Date</u> | <u>Type</u> |
|---------------------------|---------------------------|--------------------|
| 912 Sylvan | 10/12/2017 | Presentation |

VILLAGE OF MAMARONECK
BUILDING DEPARTMENT

SAWYER RESIDENCE

ADDITIONS & ALTERATIONS

PLAN PREPARATION
 Josh Flowers
 Flowers.josh@att.net
 845-661-8354
 NYS Licensed Architect

LEGAL NOTICE

ALTERATIONS BY ANY PERSON, IN
ANY WAY, OF ANY ITEM
CONTAINED ON THIS DOCUMENT,
UNLESS ACTING UNDER THE
DIRECTION OF THE LICENCED
ARCHITECT WHOSE PROFESSIONAL
SEAL IS AFFIXED HERETO, IS A
VIOLATION OF TITLE VII, SECT.
§9.5 (b) OF NEW YORK STATE
LAW.

AC

Air Conditioning

ADL

Authentic Divided Lights

AFF

Above Finish Floor

ALUM

Aluminum

BBS

Beaded Board

BC

Bull Catch

BH

Bull Hinges

BS

Beam

BMC

Brick Mold Casting

BMT

Basement

CP

Carpet

CBS

Concrete Block

CH

Continuous Hinge

CR

Chrome

CJ

Ceiling Joist

CL

Caroline

CM

Clear

CMR

Construction Manager

CONC

Concrete

CONT

Continuous

CT

Ceramic Tile

CUBIC

Cubic

DO

Door

DS

Double Acting Spring Pivot Hinge

DB

Dead Bolt

DL

Dead Load

DO

Door Pull(s)

DM

Dummy Handles

E

East

ELEV

Elevation

EQU

Square

EW

Exiting

EWG

Exiting

EWG

Exterior

EXTN

Extension

FB

Flush Bolt

FD

Footing Dimension

FG

Floor Guide

FN

Finish

FL

Floor Joist

FL

Flush Pull

FR

Fire-Rated

FU

False Work

FE

Feet

GB

Gypsum Board

GO

General Contractor

GO

Garage Door Opener

G

Glass

GB

Gypsum Board

H

Header

HGT

Height

H

Hollow Metal

HT

Invisible Hinge

HT

Interior

L

Lever

LCC

Lead Coated Copper

LN

Linoleum

L

Live Load

L

Low Point

L

Laminated Veneer Lumber

MAX

Maximum

M

Metal

M

Magnetic Catch(es)

M

Minimum

M

Monitors Latch

M

Monitors Lock Set

M

Moisture Resistant

M

Metal

N

Not in Contract

N

North

N

On Center

N

Onion

N

Pulpitus

N

Pivot Hinge

N

Privacy Lock

N

Plastic Lenses

N

Polyurethane

N

Patch and Repair

N

Pressure Seal

N

Pounds Per Square Foot

N

Parallel Strand Lumber

N

Pressure Treated

N

Painted

N

Plaster

N

Quarry Tile

N

Refrigerator

N

Rim Lock

N

Roof Rafter

N

Roof

N

Square Feet

N

Surface Mounted Crane(s)

N

Select Structural

N

Stained

N

Stone

N

Threshold

N

Touch Latch

N

To Match Existing

N

Top Of

N

Typical

N

Vinyl Asbestos Tile

N

V Groove Board

N

Vanity in Field

N

Wall

N

Wainscot

N

Wood

N

White

N

With

N

Wainscoting

* NOT ALL ABBREVIATIONS USED

MISC. NOTES

1. Scale. Do not scale drawings, all written dimensions shall take precedence.

2. Codes. All work has been designed within and shall be performed in accordance with these plans and specifications and with the 2015 IRC and 2016 New York State Supplement Code, and all other applicable national, state and local building codes. It is the responsibility of the contractor to insure compliance with said codes.

3. Job Site. Prior to submitting bid, contractor shall visit job site and notify owner of any conditions not included in these documents which require corrective or additional actions. No changes to plans to be made without written approval by the architect. Report any discrepancies to the architect.

4. Dimensions. All dimensions are to face of stud or masonry foundation. Contractor to verify all dimensions prior to construction.

5. Changes or Modifications to Plans. Any minor or required changes or modifications to this plan do not reduce or void the copyrights covering this set of plans in any way. Modifications to this plan, for any reason, should be attempted by an architect only. Architect accepts no responsibility for the quality and completeness of any changes attempted without consent.

6. Installation. All materials, supplies and equipment shall be installed per manufacturers recommendations and per applicable codes and requirements. The architect shall not have control or charge of and shall not be responsible for construction means, methods, techniques, sequences, or procedures in connection with the work, for the acts or omissions of the contractor, sub-contractor, or any other person performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.

7. Material Storage. Materials stored on site shall be protected from damage by moisture, wind, sun, abuse or any other harmful affects.

8. Safety. The general contractor is responsible for all safety precautions or safety programs used to provide a safe working environment on the job site. General contractor responsible for all structural shoring and bracing during construction.

9. Products used. Manufacturer's names and model number listed in the specifications or on the schedules are for the purpose of establishing a quality of manufacturer or a specific design configuration. Equal products, as approved by the architect/owner, will be acceptable from other manufacturers.

10. Workmanship. All work to be first rate, high quality, and accomplished in a workmanlike manner by skilled craftsmen using accepted practices and methods appropriate to the trade involved.

12. Permits. Prior to construction, the contractor shall be responsible to obtain all required permits (other than primary Building Permit), approvals and final certificate of occupancy. No construction or fabrication shall begin until the contractor has received and thoroughly reviewed all plans and other documents approved by all the permitting authorities. Prior to construction, contractor to verify service with utility agency and schedule on-site inspection to locate utility.

13. Electrical. All Electrical work shall comply with the NEC and NYS Board of Fire Underwriter and shall be UL inspected; contractor shall provide Owner with certificate of inspection.

14. Contract Documents. These Contract Documents are the property of the Architect and shall not be used without his or her written consent.

15. Specification. See attached project specification for balance of requirements.

16. Plumbing/Mechanical. All Plumbing/Mechanical work shall comply with the Codes of New York State - The Collection as published August 2010 and amended thereafter, the New York State Energy Code and all other applicable local, state and national codes having jurisdiction. The contractor shall be duly licensed in the municipality requiring the same and shall obtain and pay for all necessary inspections and shall provide Owner with proof of the same. Plumbing, HVAC and Electrical subcontractors shall survey the respective existing systems for capacity and suitability. Necessary alterations to the existing systems not shown in these documents will be described and included by the contractor in his bid proposal. The subcontractor shall provide all engineering for the system.

ZONING INFORMATION

Owner: Sawyer Residence
312 Sylvan Lane
Mamaroneck, New York, 10543

Zone: Residence Zone R-1B

Section: 9
Block: 62
Lot: 65

Use: Single Family Dwelling

| Item | Required / Permitted | Provided |
|--|----------------------|-----------------|
| 1) Minimum Lot Area (sq ft) | 15,000 | 17,571 |
| 2) Minimum Lot Width (ft) | 100 | 123.96 |
| 3) Minimum Habitable Floor Area (sf) | 1800/1650 | 2624 |
| 4) Maximum Building Height (Stories/Ft) | 2 1/2 / 35 ft | 2 1/2 / 18.6 ft |
| 5) Minimum Setback Dimensions (ft) | | |
| a) Front | 25 | 40.6 |
| b) Lesser Side | 15 | 14.7 E.T.R. |
| c) Sides Combined | 35 | 71.3 |
| d) Rear | 30 | 43.75 |
| 6) Maximum Building Coverage (All/Main Bldg) | 35% | 5% |

1.) Plumbing, HVAC and Electrical subcontractors shall survey the respective existing systems for capacity and suitability. Necessary alterations to the existing systems not shown in these documents will be described and included by the contractor in his bid proposal. The subcontractor shall provide all engineering for the system.

2.) Substitutions for items and materials specified must be of similar quality and approved by the architect/owner.

3.) Contractor shall use drop cloths and building paper to cover and protect existing floors, cabinetry, and surrounds to remain during the progress of the work.

SITE PLAN

PROJECT NORTH

SYMBOL DESIGNATION

1

Existing Header

Section

Sheet Number

1

Existing Header

Interior Elevation

Sheet Number

1

Work Note

100

Door Type

A

Window Type

DIMENSIONS KEY

1. Walls are dimensioned to face of stud.

2. Interior partitions are 2 x 4 wood studs 16\"

3. All dimensions are to be laid out and confirmed prior to fixing it to begin. Report any discrepancies to Architect.

4. F.D. indicates "Field Dimension" or "Footing Dimension" to be determined in field.

GENERAL NOTES AND SPECIFICATIONS

1. Contractor shall comply with the latest edition of the Codes of N.Y.S., and all Jurisidic Local Codes.

2. Wood Lumber Douglas Fir grade #2 or better SPS P81 min.

3. Wood that rest on concrete or masonry shall be pressure treated.

4. All conditions, locations, and dimensions shall be field verified and the Architect shall be immediately notified of any discrepancies.

5. All dimensions on drawings shall take precedence over any scaled.

6. Sealants shall be paintable Acrylic color to match finish.

7. The Architect shall approve all changes made to the plans, and any such changes in the field shall be amendments to the original building dimensions.

8. The Contractor shall supervise and direct all work using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for all portions of work under the contract.

9. The Architect shall not be responsible for the supervision of the construction.

10. The Contractor shall be solely responsible for on and off site safety.

11. No changes shall be these plans, as per NYC Law and Local Codes.

12. The contractor shall be responsible to the owner for the acts and omissions of his/her employees, subcontractors, and their performing any work under a contract with the contractor.

13. All electrical work shall comply with the NEC & N.Y.S. board of Fire Underwriter and shall be UL inspected; contractor shall provide owner with certificate of inspection.

14. Concrete shall be min. of 4,000 psi at 28 days.

15. All plumbing/mechanical work shall comply with Codes of NYC - The Collection, N.Y.S. Energy Codes and all Local Codes. The contractor shall provide owner with certification of inspection.

MATERIALS KEY

Concrete Block

Stone

Concrete

Rigid Insulation

Batt Insulation

Plywood

Wood Board - Finish

1

1

Blocking

Continuation

PARTITION KEY

New partition

Existing partition to be removed

Existing partition to remain

New door

Existing door to be removed

Existing door to remain

STRUCTURAL LOADS

LIVE LOAD DESIGN • HABITABLE SPACE • 40 psf DECKS • 40 psf GUARDS & HANDRAILS • 200 psf DEAD LOAD DESIGN • 20 psf ROOF LOAD (all + 10) • 46 psf

CLIMATIC & GEOGRAPHICAL INFORMATION

2016 CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

| Ground Snow Load | Wind Speed (mph) | Topo-effect winds</th> |
|------------------|------------------|------------------------|
|------------------|------------------|------------------------|

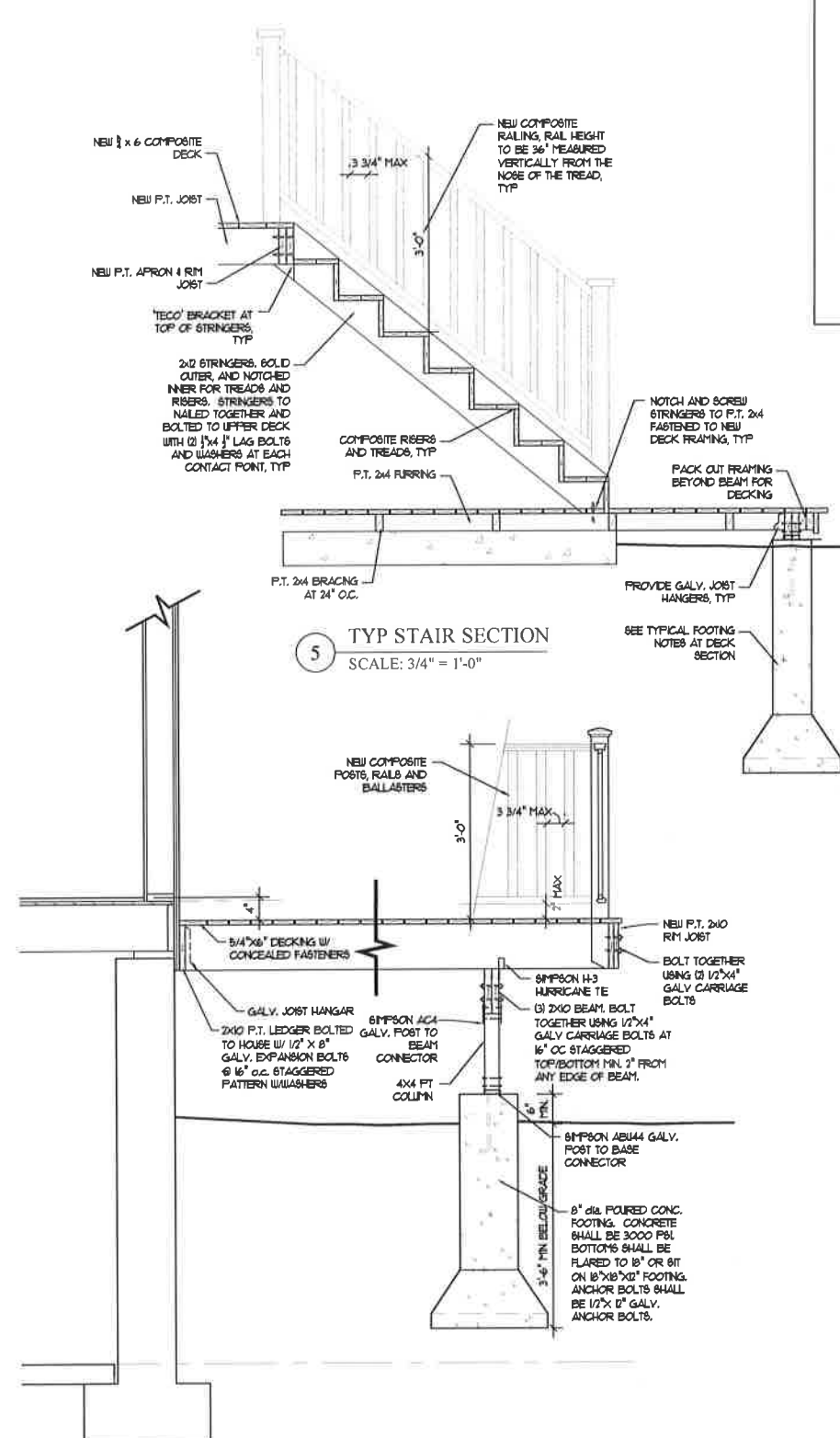
ENERGY CODE

ALL PROPOSED WORK IS DESIGNED IN COMPLIANCE WITH THE 2016 NYC ENERGY CODE - CLIMATE ZONE 4a

DRAWING LIST

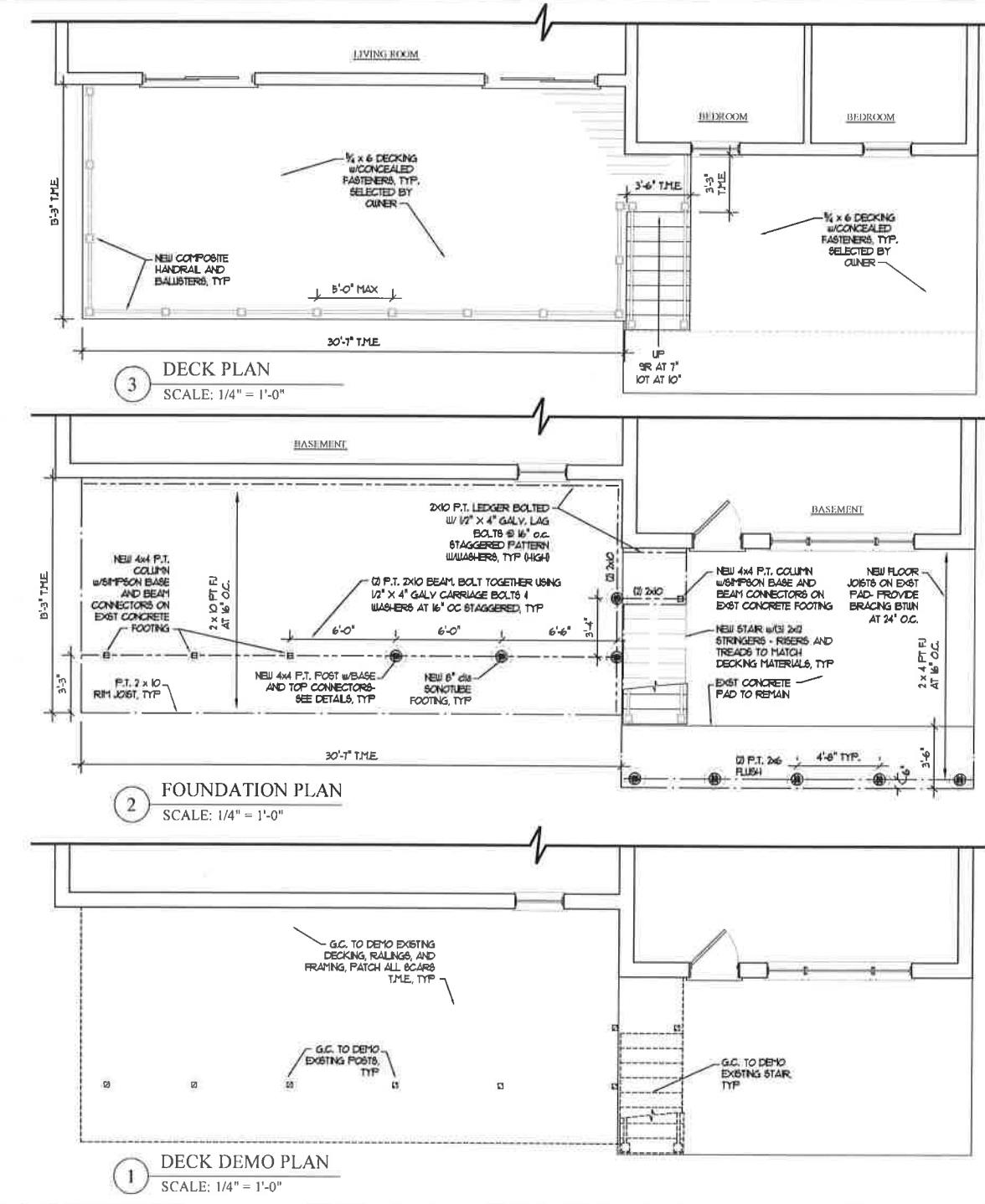
T-1 COVER SHEET/ CODE & ZONING NOTES
A-01 FLOOR PLANS AND DETAILS
A-02 ELEVATIONS

PROJECT NO.: 2017- 0800
DATE: JULY 27, 2017
SCALE: AS NOTED
DRAWN BY: / CHECKED BY: JDF
DRAWING NO.: T-01



- Cast-In-Place Concrete :-**
1. Concrete strength at 28 days: 3000 psi for foundation walls, and footings. 3500 psi for concrete slab-on-grade.
 2. Air-entrain all concrete, except for concrete for interior slab-on-grade.
 3. Reinforcing steel: ASTM A615 grade 60.
 4. Concrete work shall be in accordance with ACI 301-09 and ACI 318-09.
 5. Minimum slump:
4 inches for slabs
5 inches for all other concrete
 6. Minimum cover on reinforcing steel:
a. concrete cast against the earth 3"
b. concrete exposed to earth or weather 2"
c. interior slabs and walls 1 1/2"
d. interior slabs and walls 3/4"
 7. Interior floor slab shall receive a steel trowel finish. Exterior slabs and sidewalks shall receive a coarse broom finish.
 8. Grout and rub all exposed surfaces of foundation walls within 48 hours of pour.
 9. Calcium chloride shall not be used.
 10. Apply curing compound to slabs immediately following final troweling. Contractor shall verify compatibility with finish material.

- Wood Framing :-**
1. Wood framing shall comply with the requirements of the "National Design Specifications for Wood Construction" of the American Forest and Paper Association.
 2. All dimensional lumber joists, framing members and studs 2 x 6 or larger shall comply with the minimum specifications for Douglas Fir Larch No. 1 - Kiln Dried, with a base allowable flexural stress of 875 psi. Studs, 2 x 4's, shall be Douglas Fir Larch Construction grade.
 3. Provide bridging for all dimensional lumber joists at midspan, or at 8'-0" o.c. max. Provide solid bridging at rafter height for all wall studs.
 4. All headers and trimmers shall be double members, minimum, unless otherwise noted. Provide double member posts at edges of all openings in stud bearing walls. Below bearing points of double, triple or more framing members or posts, provide a solid or built-up spaced post equal in width to nominal width of member above. All posts to be solid to foundation or on structural members that safely transfer the loads to the foundation.
 5. Provide double joists under all partition walls parallel to the joist span.
 6. Connection hardware shall be galvanized as manufactured by Simpson Strong-Tie Co., or Architects approved equal. Provide joists, rafter and true hangers for all members not supported by direct bearing. Install and nail hangers in strict accordance with manufacturer's recommendations.
 7. Plywood roof sheathing shall be 1 Layer of 5/8" thick, American Plywood Association Rated Sheathing Exposure 1, Interior with Exterior Glue, install with long dimension across supports and with panel continuous over two or more spans. Panel and joints shall occur over supporting framing. Provide 1/8" spacing at panel ends and edges. Provide one panel clip per span along all edges. Protect sheathing from exposure to weather if roof covering material is not promptly installed.
 8. Fasten plywood roof sheathing with nails spaced 6" o.c. along supported edges and 12" o.c. along intermediate supports.
 9. Plywood floor sheathing shall be American Plywood Association Rated Snd-Floor, tongue and groove, with a span rating of 32 inches, minimum. Exposure 1. Floor sheathing thickness shall not be less than 3/4 inches. Install with long dimension across supports and with panel continuous over two or more spans. Stagger panel and joints. Panel and joints shall occur over supporting framing. Provide 1/8" spacing at panel ends and edges. Glue and nail plywood floor sheathing with Ed ring- or screw-shank nails spaced 6" along supported edges and 12" o.c. along intermediate supports.
 10. Coordinate location of Joists and Rafter with lighting fixtures as shown on architectural drawings.
 11. Coordinate location of Floor Joists with mechanical registers.



PLAN PREPARATION
Josh Flowers
flowers.josh@att.net
845-661-8354
NY's Licensed Architect

LEGAL NOTICE
ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECTION 88.2 (b) OF NEW YORK STATE LAW.

REVISIONS:
NO. DATE BY:

CONSTRUCTION DOCUMENTS

SAWYER RESIDENCE
912 Sylvan Lane, Mamaroneck, NY 10543

FLOOR PLANS AND DETAILS

PROJECT NO.:
2017- 0800

DATE:
JULY 27, 2017

SCALE:
AS NOTED

DRAWN BY: / CHECKED BY:
JDF

DRAWING NO.:
A-01



Village of Mamaroneck, NY

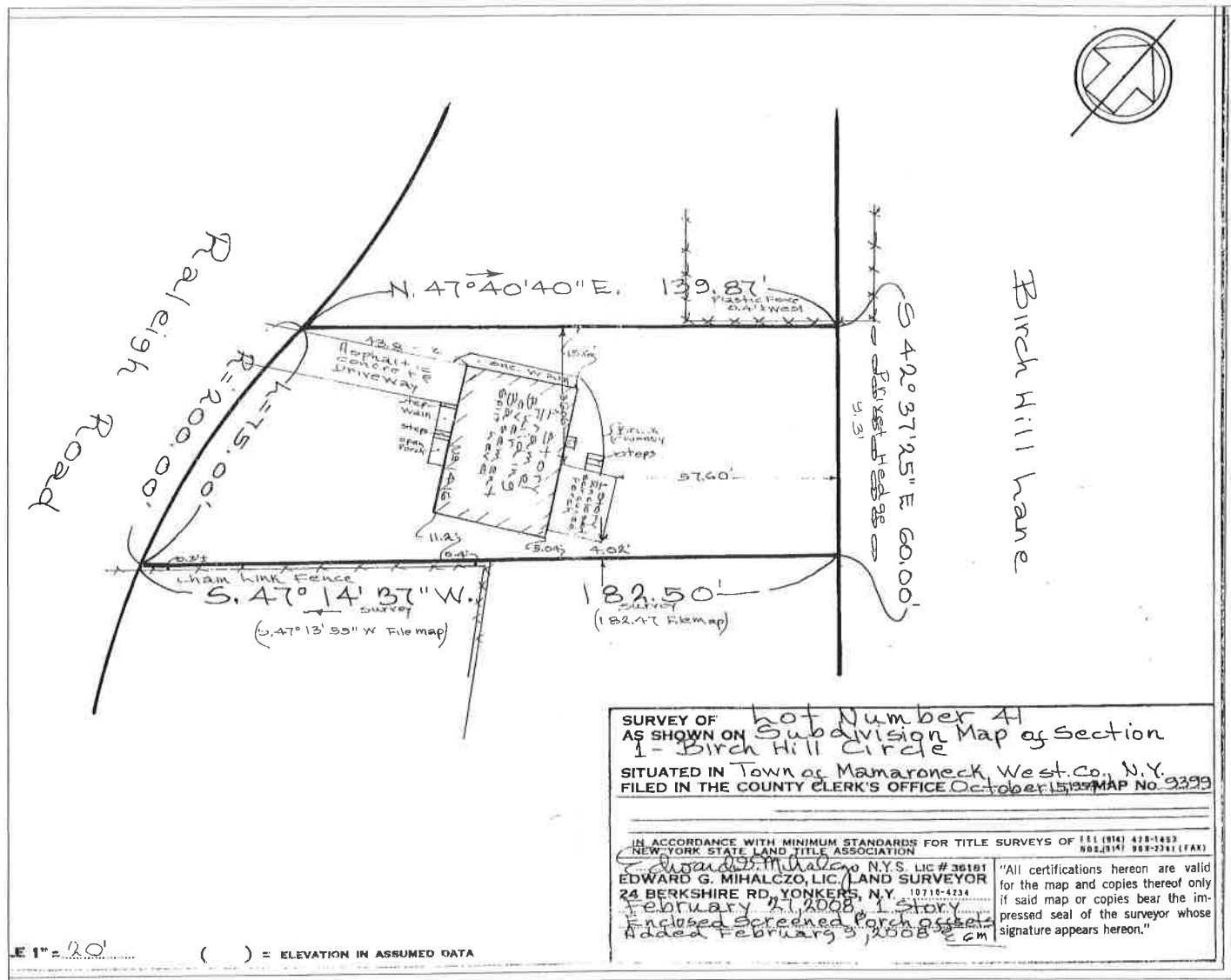
Item Title: 1416 Raleigh

Item Summary: 1416 RALEIGH ROAD - MODIFY ENTRY LANDING
APPLICANT: JOHN BARRETO - HOMEOWNER

Fiscal Impact:

ATTACHMENTS:

| <u>Description</u> | <u>Upload Date</u> | <u>Type</u> |
|---------------------------|---------------------------|--------------------|
| 1416 Raleigh | 10/12/2017 | Presentation |



3 SURVEY OF EXISTING HOME

SCALE: 1" = 20' appx

| ZONING DATA R-5 | | | |
|--------------------|----------|-----------|----------|
| | REQUIRED | EXISTING | PROPOSED |
| LOT SIZE (sq. ft.) | 5,000 | 3,942 | N/C |
| WIDTH (ft.) | 50 | 60.00 | N/C |
| DEPTH (ft.) | 100 | 165 avg | N/C |
| FRONT | 20 | 43.8 | N/C |
| LESSER SIDE | 6 | 4.02 | N/C |
| COMBINED | 14 | 20.64 | N/C |
| REAR | 25 | 57.60 | N/C |
| MAX. HGT. (sly/ft) | 2.5/35 | 1.5/22.8' | N/C |
| MAX. COVERAGE | 35% | 14.6% | N/C |
| FAR CALCULATIONS | 0.55 max | 0.21 | N/C |

4 ZONING ANALYSIS

SCALE:

GENERAL NOTES

- THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE RESIDENTIAL BUILDING CODE OF THE STATE OF NEW YORK, 2015 EDITION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE CODES AND LOCAL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, AND CERTIFICATE OF OCCUPANCY FOR THE NEW WORK FROM ALL MUNICIPAL AGENCIES HAVING JURISDICTION FOR THE WORK. THE COST OF ALL PERMITS REQUIRED FOR THE WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO PROVIDE AND MAINTAIN SITE SAFETY AS PER CURRENT OSHA REGULATIONS AND TO SAFEGUARD ALL PERSONS AND PROPERTY FOR DURATION OF THE WORK.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. DRAWINGS ARE NOT TO BE SCALED. DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ENGINEER IN WRITING FOR CLARIFICATION. WORK SHALL NOT PROCEED UNTIL SUCH CLARIFICATION HAS BEEN RECEIVED. DESIGN ENGINEER IS NOT RESPONSIBLE FOR ANY LOST TIME OR DELAY DUE TO SUCH DISCREPANCIES.
- THE PROPOSED NEW WORK AT PORTIONS OF THE EXISTING STRUCTURE IS BASED ON INCOMPLETE INFORMATION ABOUT THE EXISTING STRUCTURE. AS THE WORK PROGRESSES, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FIELD INFORMATION ABOUT ANY EXISTING CONDITIONS AS THEY ARE UNCOVERED AND EXPOSED, WHICH MAY VARY FROM THE CONDITIONS SHOWN ON THESE PLANS, AND SHALL FOLLOW ANY CHANGES IN DESIGN THAT WILL BE REQUIRED BY THE ENGINEER DUE TO UNANTICIPATED FIELD CONDITIONS.
- THE DESIGN ENGINEER SHALL NOT BE HELD LIABLE FOR ANY HIDDEN CONSTRUCTION FOUND DURING AND OR AFTER THE WORK, WHICH HAS NOT BEEN SHOWN ON THE PLANS. THE PLANS HAVE BEEN PREPARED TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE.
- SHOULD UNFORESEEN CONDITIONS REQUIRE CONSTRUCTION DETAILS NOT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AND SUBMIT DETAILS SHOWING THE PROPOSED METHODS TO ACCOMPLISH THE REQUIRED RESULTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING THE WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS, MIS-ALIGNMENT AND THE DELETERIOUS EFFECTS OF WEATHER ELEMENTS ACCORDING TO APPLICABLE CODES, STANDARDS AND GOOD PRACTICE.
- MINOR DETAILS NOT SHOWN OR SPECIFIED IN THE PLANS BUT NECESSARY FOR THE PROPER AND ACCEPTABLE CONSTRUCTION SHALL BE INCLUDED IN THE WORK.
- PROVIDE FIRE STOP AT ALL CONCEALED SPACES, BETWEEN FLOORS AND AT EACH STORY/FLOOR BREAK.
- ALL NEW PARTITIONS, CEILINGS, REPAIRS SHALL RECEIVE THREE COATS OF USG JOINT COMPOUND AND BE PREPARED TO ACCEPT FINISHES AS SELECTED BY OWNER.
- THE ENGINEER HAS NOT BEEN RETAINED TO PERFORM FIELD SUPERVISION OR INSPECTION OF THIS PROJECT, NOR DOES HE ASSUME ANY RESPONSIBILITY OTHER THAN FOR THE ACCURACY OF THE DRAWINGS SUBMITTED HERewith.
- THE ENGINEER'S TOTAL LIABILITY ARISING OUT OF OR IN ANY WAY CONNECTED WITH THESE PLANS SHALL NOT EXCEED THE TOTAL FEE CHARGED FOR THE ENGINEERING SERVICES FOR THE DRAWINGS SUBMITTED HERewith.
- ROOFING ROOF SHINGLES SHALL BE SHALL CONFORM TO ASTM D 3018 TYPE I - SELF-SEALING; UL CERTIFICATION OF ASTM D 3462, ASTM D 3161 CLASS "T" (110-MFH)/UL997 WIND RESISTANCE, AND UL CLASS A FIRE RESISTANCE; GLASS FIBER MAT BASE; FULL TWO-LAYER LAMINATED FOUR-TAB SHINGLE. WEIGHT: 355 POUNDS PER 100 SQUARE FEET.
- ANY UNFORESEEN, UNRECOGNIZED, OR QUESTIONABLE FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND DESIGN ENGINEER IMMEDIATELY UPON FINDING OF SAME.
- CONTRACTOR SHALL PROTECT ALL ADJACENT SPACES FROM DAMAGE, DUST AND DEBRIS RESULTING FROM THE DEMOLITION WORK.
- DEMOLITION SHALL BE PERFORMED IN AN ORDERLY AND CAREFUL MANNER ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD PRACTICE.
- DISCONNECT, REMOVE AND/OR CAP ALL UTILITY SERVICES AS REQUIRED WITHIN THE DEMOLITION AREA.
- WRITTEN DIMENSIONS ON ALL DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY & BE RESPONSIBLE FOR ALL DIMENSIONS & CONDITIONS ON THE JOB. THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.


ELECTRICAL NOTES

- THE OWNER SHALL BE CONSULTED BY A LICENSED ELECTRICAL CONTRACTOR PRIOR TO THE INSTALLATION OF ANY ELECTRICAL EQUIPMENT, OUTLETS, LIGHTS, SWITCHES, OR COMMUNICATION OUTLETS FOR THE OWNER'S APPROVAL FOR LOCATION OF SUCH.
 - ALL ELECTRICAL WORK SHALL BE BY AN ELECTRICIAN LICENSED TO PERFORM SUCH WORK WITHIN THE MUNICIPALITY, AND SHALL CONFORM TO THE NEC AND LOCAL CODES.
- CLEAN UP
- PROJECT AREA SHALL BE KEPT NEAT AND ORDERLY WITH FREQUENT BROOM SWEEPINGS. AS NEEDED DURING WORK, THE CONTRACTOR SHALL CLEAN UP AND REMOVE DEBRIS FROM THE WORK SITE DAILY.

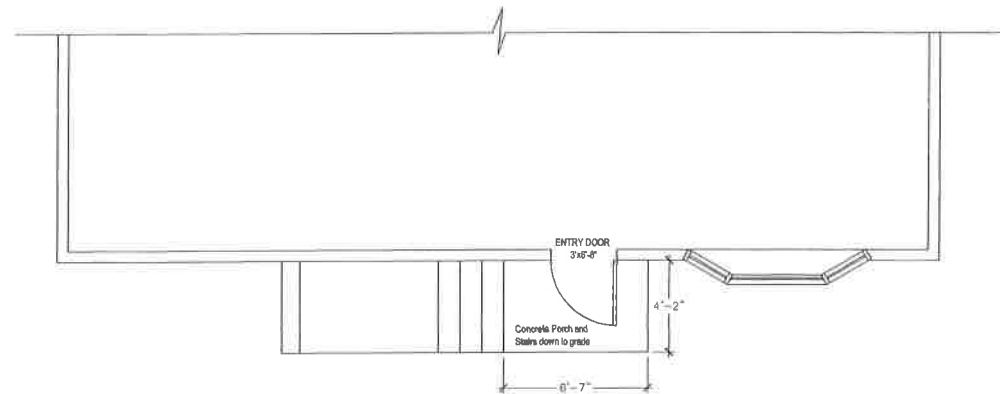
CONCRETE & MASONRY

- ALL CONCRETE TO HAVE A MINIMUM STRENGTH OF 3,000 PSI AFTER 28-DAYS.
- ALL EXCAVATION WORK SHALL FOLLOW OSHA GUIDELINES FOR TRENCH EXCAVATING, INCLUDING PROPER USE OF SHORING AND BRACING.
- CONTRACTOR TO PROVIDE AND MAINTAIN SITE SAFETY AS PER CURRENT OSHA REGULATIONS AND TO SAFEGUARD ALL PERSONS AND PROPERTY FOR DURATION OF THE WORK.
- NON-SHRINK GROUT OR CEMENT PRODUCT SHALL BE USED TO PREVENT ANY SPACE BETWEEN NEW FOUNDATION AND EXISTING FOUNDATION.
- THE PROPOSED NEW WORK AT PORTIONS OF THE EXISTING STRUCTURE IS BASED ON INCOMPLETE INFORMATION ABOUT THE EXISTING STRUCTURE. AS THE WORK PROGRESSES, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FIELD INFORMATION ABOUT ANY EXISTING CONDITIONS AS THEY ARE UNCOVERED AND EXPOSED, WHICH MAY VARY FROM THE CONDITIONS SHOWN ON THESE PLANS, AND SHALL FOLLOW ANY CHANGES IN DESIGN THAT WILL BE REQUIRED BY THE ENGINEER DUE TO UNANTICIPATED FIELD CONDITIONS.

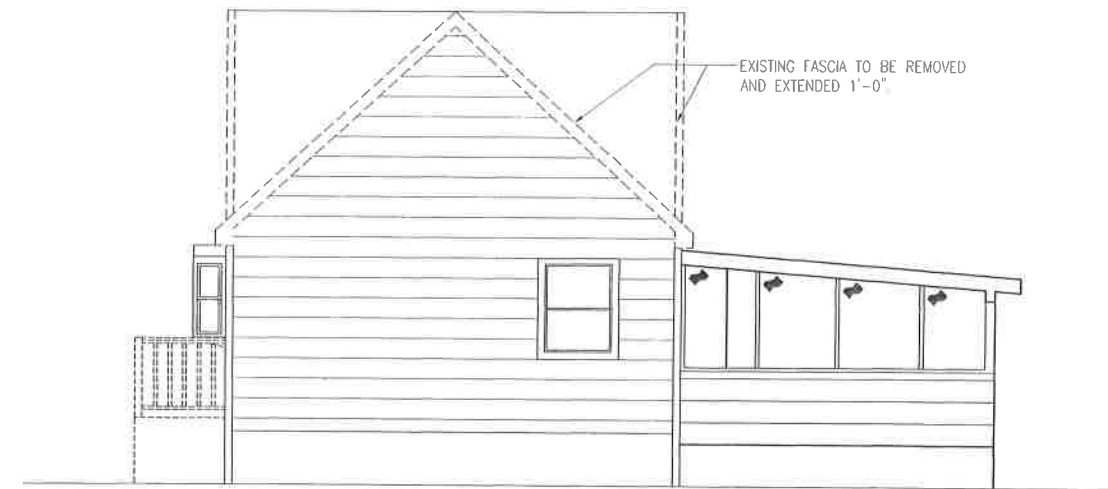
NOTES SURVEY & ZONING

| | | | |
|---|--|-----------------|---------------|
|  | MR. & MRS. JOHN BARRETO | | |
| | 1416 RALEIGH ROAD MAMARONECK, NY 10543 | | |
| | SCALE: AS NOTED | | DRAWN BY: VGC |
| | DATE: NOV 16, 2016 | | REVISED: |
| | VICTOR G. CAROSI, P.E. 63 BENEDICT AVE., WHITE PLAINS, NY 10603 | | |
| | SECTION: 8 BLOCK: 6A LOT: 41 | DRAWING: 1 of 5 | |

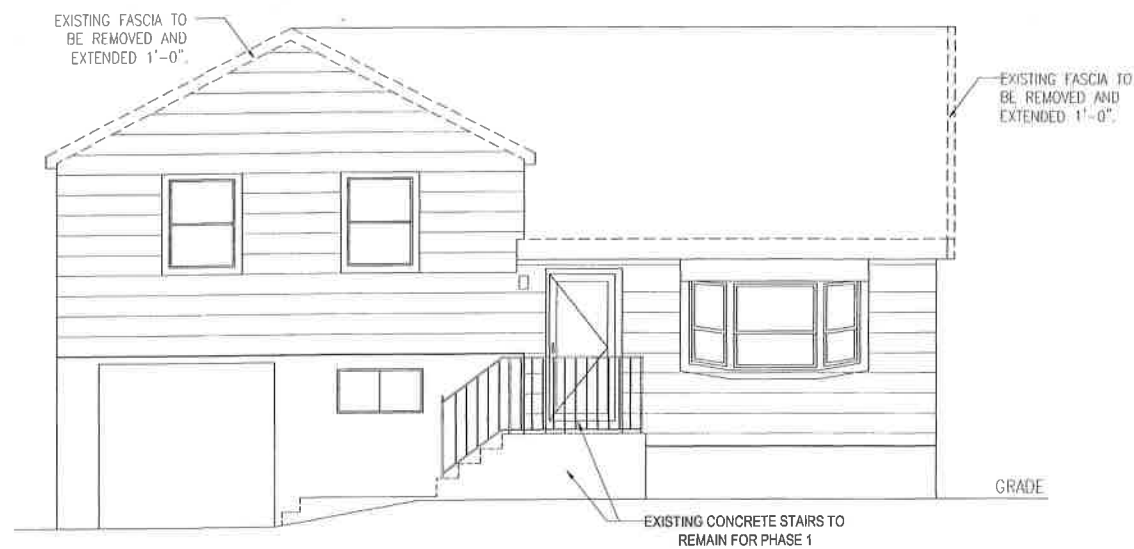
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1 EXISTING PORCH FLOOR PLAN
SCALE: 1/4" = 1'-0"



4 EXISTING RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



2 EXISTING FRONT ELEVATION
SCALE: 1/4" = 1'-0"



3 EXISTING REAR ELEVATION
SCALE: 1/4" = 1'-0"

EXISTING ELEVATIONS

LEGAL NOTICE:

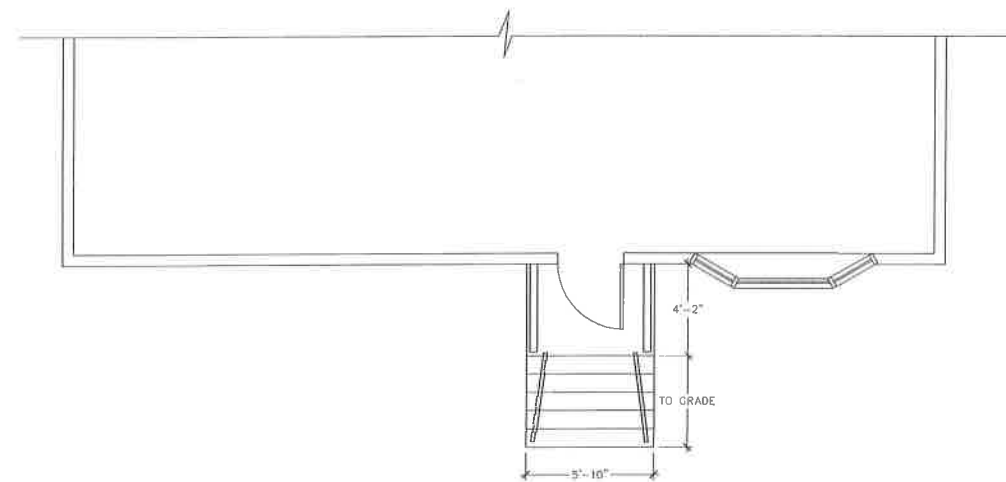
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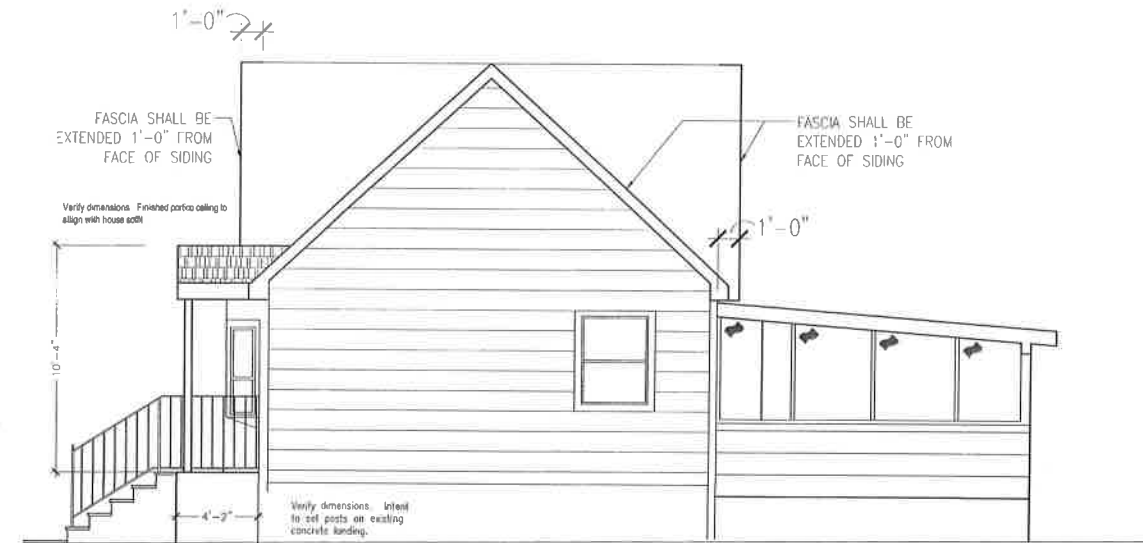
MR. AND MRS. JOHN BARRETO
1416 RALEIGH ROAD, MAMARONECK, NY 10543

| | | |
|--|------------------------|-----------------|
| SCALE: AS NOTED | FRONT PORCH RENOVATION | DRAWN BY: SJO |
| DATE: 09-01-2017 | | REVISED: |
| VICTOR G. CAROSI, P.E. 63 BENEDICT AVE., WHITE PLAINS, NY 10603 | | |
| SECTION: 8 | BLOCK: 6A LOT: 41 | DRAWING: 2 of 5 |

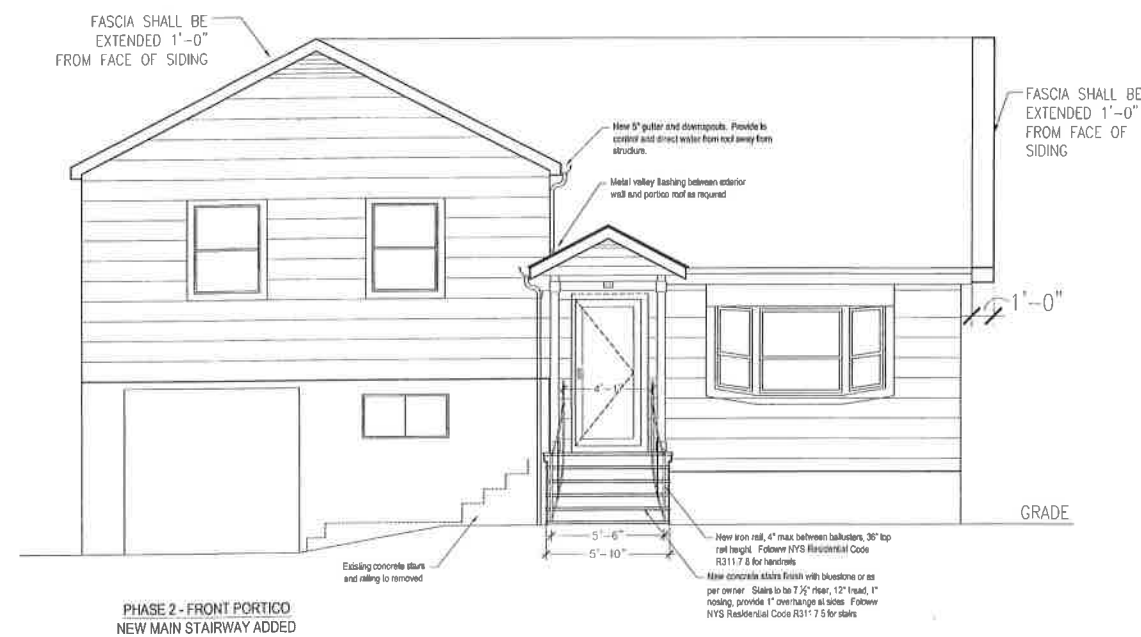
SEPT 19, 2017 - General Revisions



1 PROPOSED PORCH FLOOR PLAN
SCALE: 1/4" = 1'-0"



4 PROPOSED RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



2 PROPOSED FRONT ELEVATION
SCALE: 1/4" = 1'-0"



3 PROPOSED REAR ELEVATION
SCALE: 1/4" = 1'-0"

PROPOSED ELEVATIONS

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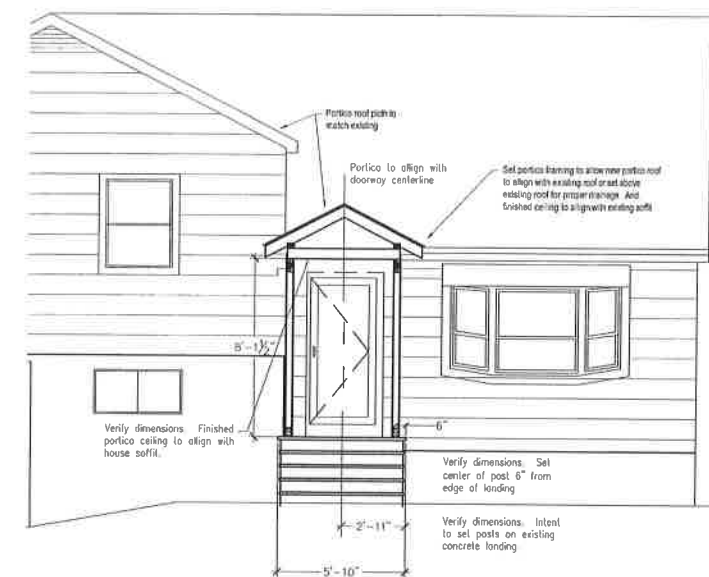


| | | |
|--|---------------------------|-----------------|
| MR. AND MRS. JOHN BARRETO 1416 RALEIGH ROAD, MAMARONECK, NY 10643 | | |
| SCALE: AS NOTED | FRONT PORCH RENOVATION | DRAWN BY: SJO |
| DATE: 09-01-2017 | | REVISED: |
| VICTOR G. CAROSI, P.E. 63 BENEDICT AVE., WHITE PLAINS, NY 10603 | | |
| SECTION: 8 | BLOCK: 6A | LOT: 41 |
| | | DRAWING: 3 of 5 |

Contractor to verify all dimensions of existing and proposed prior to starting work. Shall bring attention of any significant, major issues to owner and engineer BEFORE starting work and ordering any material.



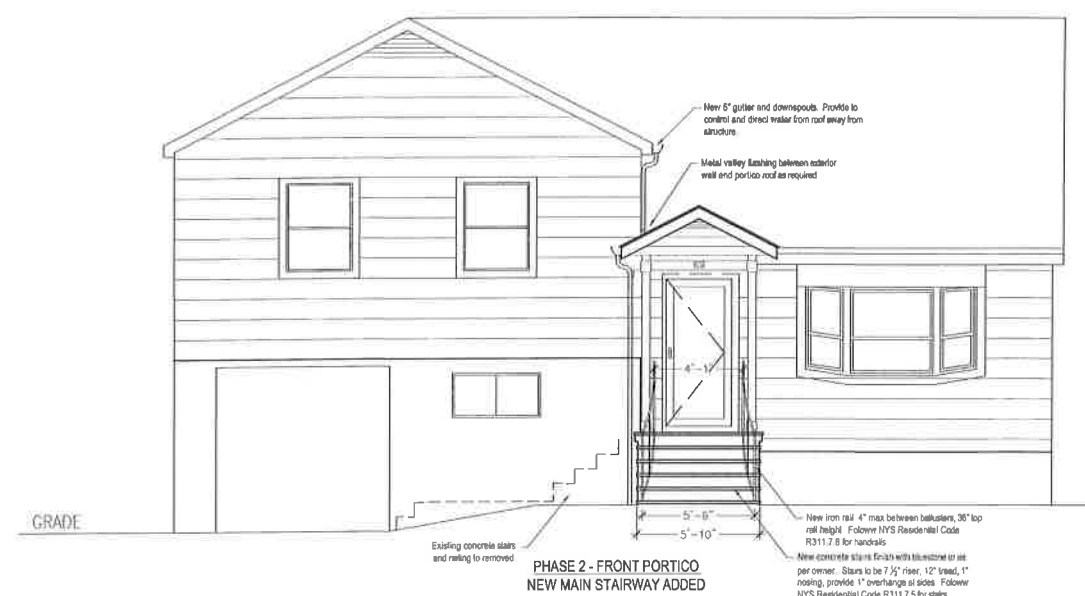
1 PROPOSED FRONT ELEVATION - PHASE 1
SCALE: 1/4" = 1'



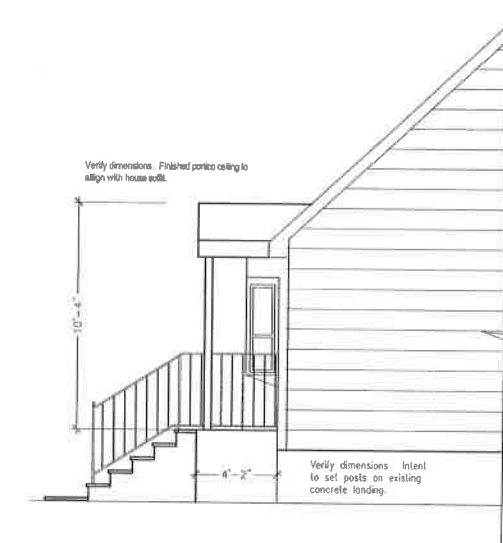
4 STRUCTURAL DETAILS
SCALE: 1/4" = 1'

ROOF DETAIL NOTE

Roof to include overhang detail of 12" or as per owner to meet and match new roof detail of main house.



2 PROPOSED FRONT ELEVATION - PHASE 2
SCALE: 1/4" = 1'



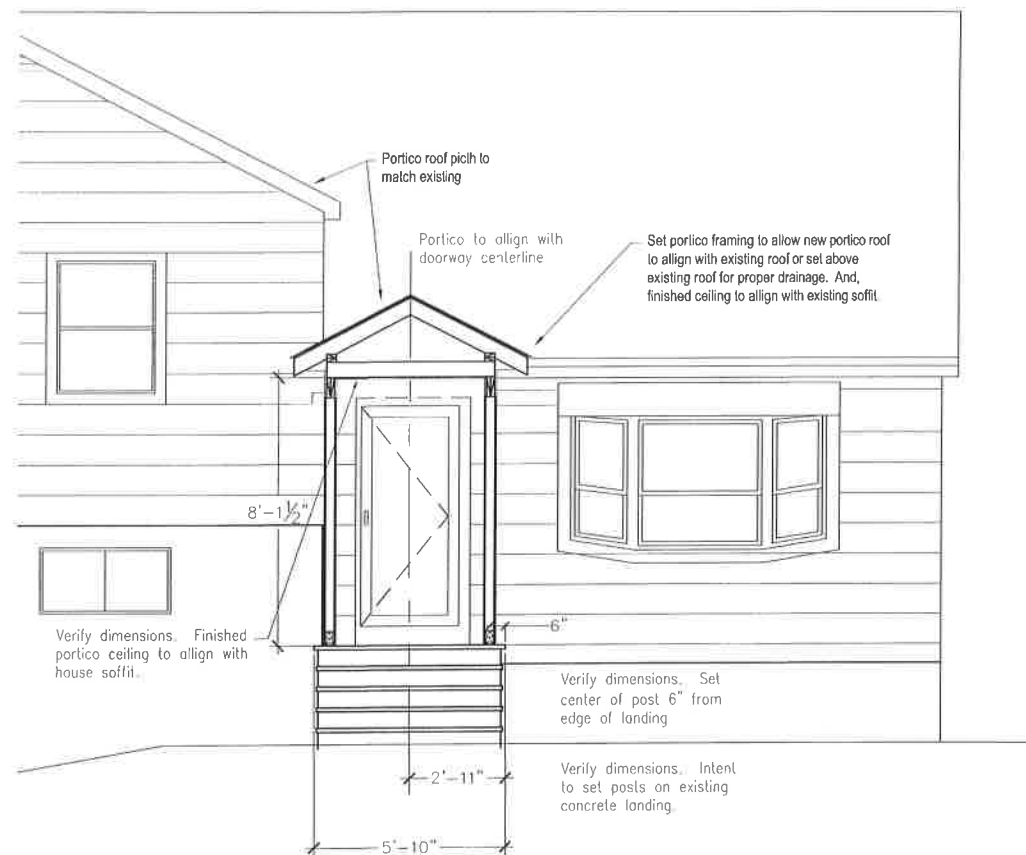
3 PROPOSED SIDE ELEVATION - PHASE 2
SCALE: 1/4" = 1'

PROPOSED FRONT PORCH

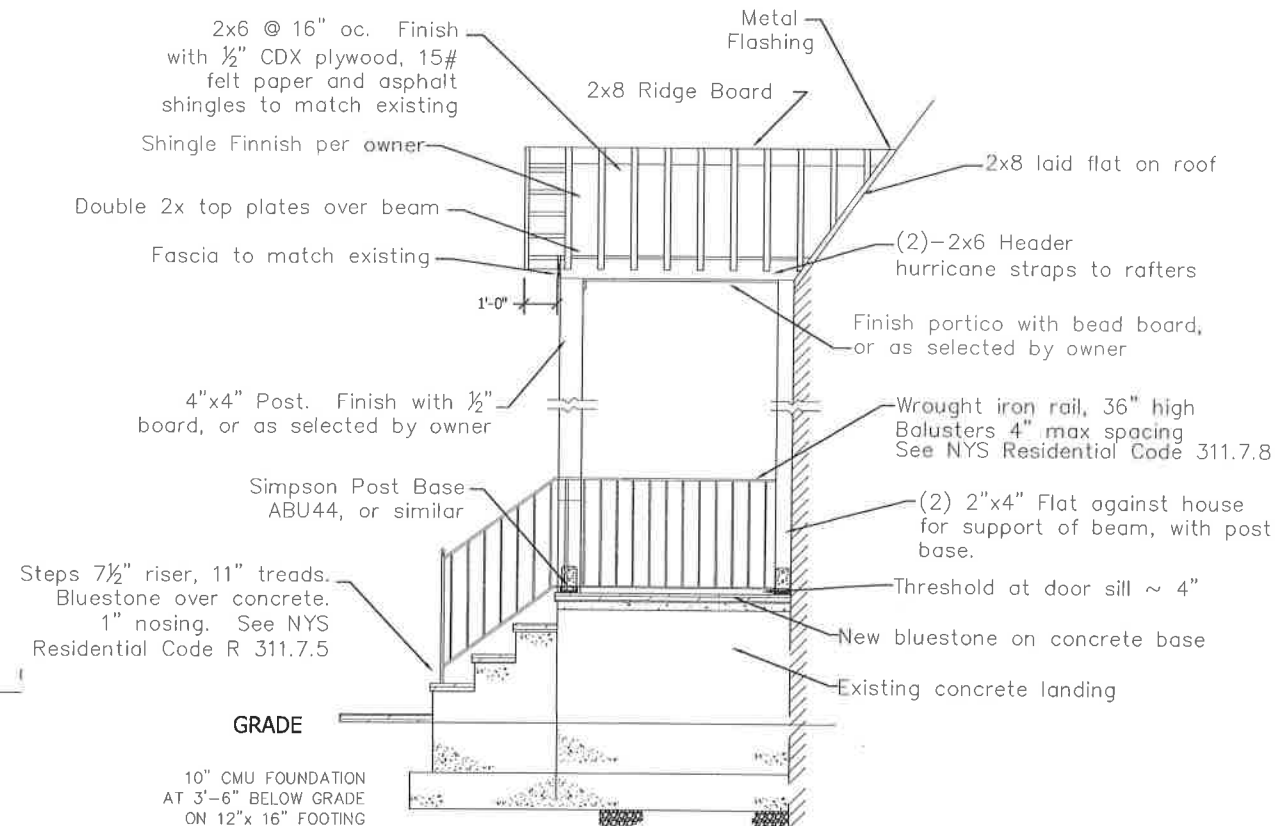
| | | |
|--|--|-----------------|
| MR. & MRS. JOHN BARRETO 1416 RALEIGH ROAD MAMARONECK, NY 10543 | | |
| SCALE: AS NOTED | | DRAWN BY: VGC |
| DATE: NOV 16, 2016 | | REVISED: |
| VICTOR G. CAROSI, P.E. 63 BENEDICT AVE., WHITE PLAINS, NY 10603 | | |
| SECTION: 8 BLOCK: 6A LOT: 41 | | DRAWING: 4 OF 5 |

LEGAL NOTICE:

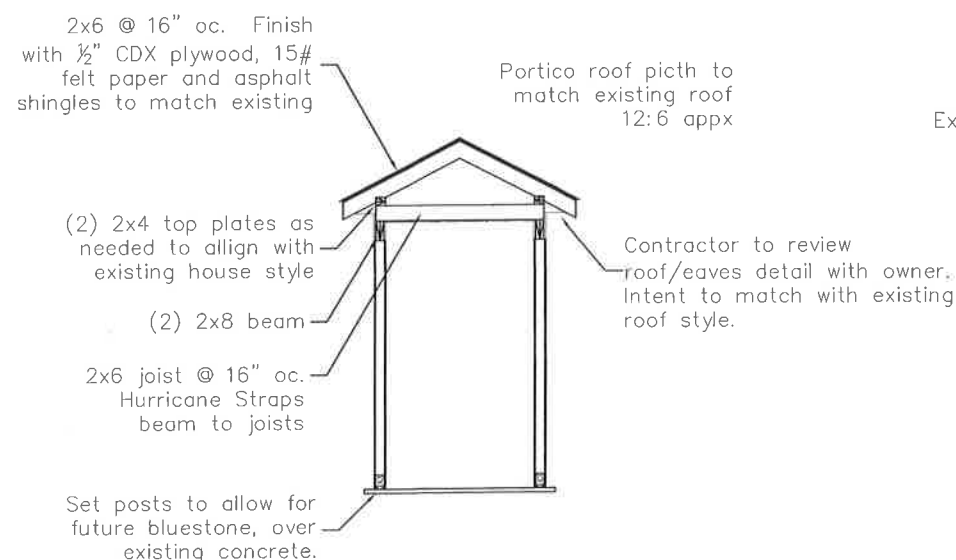
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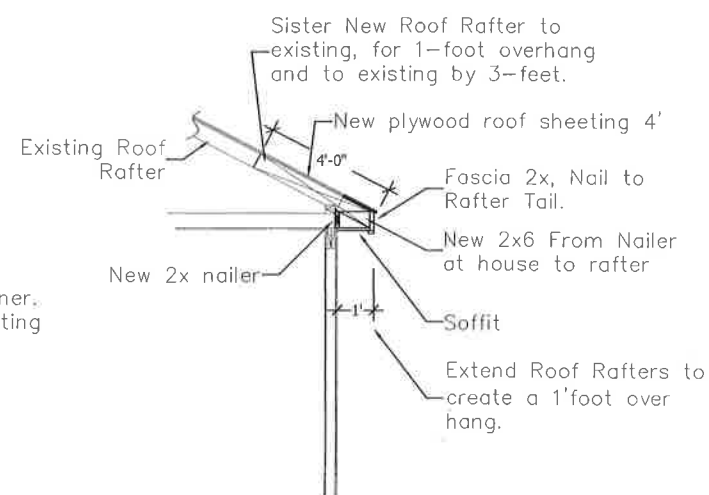
1 STRUCTURAL DETAILS
SCALE: 3/8" = 1'



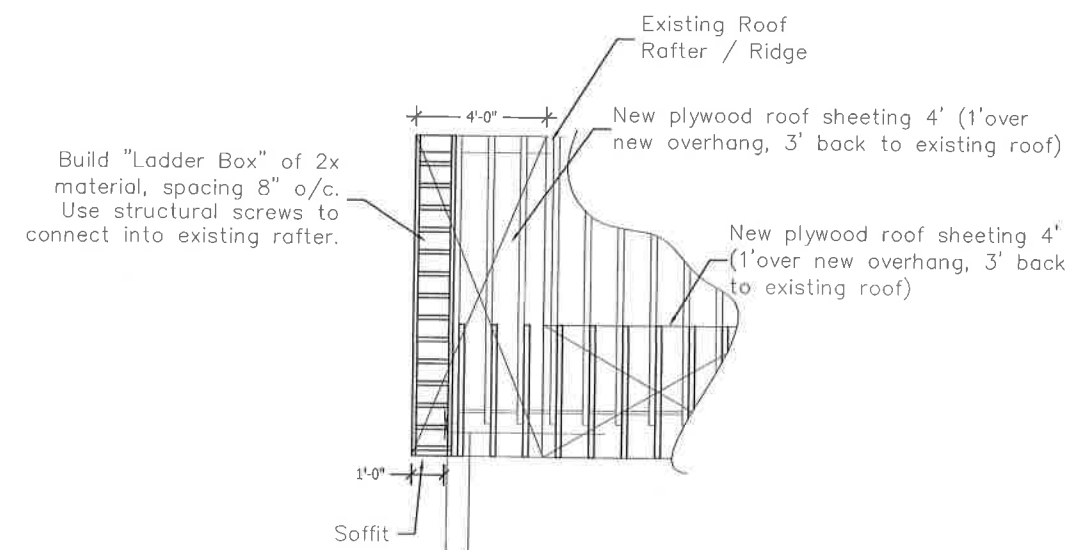
4 PORTICO CONSTRUCTION
SCALE: 3/8" = 1'



2 FRONT PORTICO DETAILS
SCALE: 3/8" = 1'



3A PROPOSED SOFFIT/EAVE DETAIL
SCALE: 3/8" = 1'



3B PROPOSED SOFFIT/EAVE DETAIL
SCALE: 3/8" = 1'

Contractor to verify all dimensions of existing and proposed prior to starting work. Shall bring attention of any significant, major issues to owner and engineer BEFORE starting work and ordering any material.

LEGAL NOTICE:

ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE EXPRESS DIRECTION OF THE NYS LICENSED ENGINEER WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF ARTICLE 145, §7209.2 OF THE NEW YORK STATE EDUCATION LAW

REV: SEPT 19, 2017 - General Revisions

DETAILS

| | | | |
|--|--------------------|--|--|
| | | MR. & MRS. JOHN BARRETO 1416 RALEIGH ROAD MAMARONECK, NY 10543 | |
| SCALE: AS NOTED | DATE: NOV 16, 2016 | DRAWN BY: VGC | |
| VICTOR G. CAROSI, P.E. 63 BENEDICT AVE., WHITE PLAINS, NY 10603 | | REVISED | |
| SECTION: 8 BLOCK: 6A LOT: 41 | | DRAWING: 5 OF 5 | |

Village of Mamaroneck, NY

Item Title: 622 Second Street

Item Summary: 622 SECOND STREET - SOLAR PANELS
APPLICANT: VANGUARD ENERGY - CONTRACTOR

Fiscal Impact:

ATTACHMENTS:

| <u>Description</u> | <u>Upload Date</u> | <u>Type</u> |
|---------------------------|---------------------------|--------------------|
| 622 Second | 10/12/2017 | Presentation |

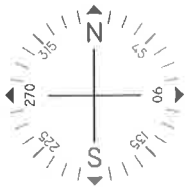
INSTALLATION OF NEW
ROOF MOUNTED PV SOLAR SYSTEM
622 2ND STREET
MAMARONECK, NY 10543

2ND STREET ●



VICINITY MAP
SCALE: NTS

SITE



Issued / Revisions

| NO. | DESCRIPTION | DATE |
|-----|-------------------------------|-----------|
| P1 | ISSUED TO TOWNSHIP FOR PERMIT | 8/16/2017 |

Project Title:

MCQUEEN, LESLIE
TRINITY ACCT #: 2017-07-170690

Project Address:

622 2ND STREET
MAMARONECK, NY 10543

Drawing Title:

PROPOSED PV SOLAR SYSTEM

Drawing Information

| | |
|---------------|-----------|
| DRAWING DATE: | 8/16/2017 |
| DRAWN BY: | JC |
| REVISED BY: | |

System Information:

| | |
|---------------------|---------------------|
| DC SYSTEM SIZE: | 4.93kW |
| AC SYSTEM SIZE: | 3.8kW |
| TOTAL MODULE COUNT: | 17 |
| MODULES USED: | HANWHA 290 |
| MODULE SPEC #: | Q-PEAK-BLK G4.1 290 |
| UTILITY COMPANY: | CON EDISON |
| UTILITY ACCT #: | 54-4716-0554-000-0 |
| UTILITY METER #: | 7431964 |
| DEAL TYPE: | SUNNOVA |

Rev. No.

P1

Sheet

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GENERAL NOTES

1. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTIONS CONTAINED IN THE DRAWING PACKAGE AND INFORMATION RECEIVED FROM TRINITY.
2. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTION CONTAINED IN THE COMPLETE MANUAL.
3. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL DRAWINGS, COMPONENT AND INVERTER MANUALS PRIOR TO INSTALLATION. THE INSTALLATION CONTRACTOR IS ALSO REQUIRED TO HAVE ALL COMPONENT SWITCHES IN THE OFF POSITION AND FUSES REMOVED PRIOR TO THE INSTALLATION OF ALL FUSE BEARING SYSTEM COMPONENTS.
4. ONCE THE PHOTOVOLTAIC MODULES ARE MOUNTED, THE INSTALLATION CONTRACTOR SHOULD HAVE A MINIMUM OF ONE ELECTRICIAN WHO HAS ATTENDED A SOLAR PHOTOVOLTAIC INSTALLATION COURSE ON SITE.
5. FOR SAFETY, IT IS RECOMMENDED THAT THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PERSONS WORKING TOGETHER AND THAT EACH OF THE INSTALLATION CREW MEMBERS BE TRAINED IN FIRST AID AND CPR.
6. THIS SOLAR PHOTOVOLTAIC SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRICAL CODE. ANY LOCAL CODE WHICH MAY SUPERSEDE THE NEC SHALL GOVERN.
7. ALL SYSTEM COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE "UL" LISTED. ALL EQUIPMENT WILL BE NEMA 3R OUTDOOR RATED UNLESS INDOORS.

GENERAL NOTES CONTINUED

8. THE DC VOLTAGE FROM THE PANELS IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THE PHOTOVOLTAIC SYSTEM ARE WARNED THAT THE SOLAR MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT.
9. ALL PORTIONS OF THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE MARKED CLEARLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 690 & 705.
10. PRIOR TO THE INSTALLATION OF THIS PHOTOVOLTAIC SYSTEM, THE INSTALLATION CONTRACTOR SHALL ATTEND A PRE-INSTALLTION MEETING FOR THE REVIEW OF THE INSTALLATION PROCEDURES, SCHEDULES, SAFETY AND COORDINATION.
11. PRIOR TO THE SYSTEM START UP THE INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS.
12. FOR THE PROPER MAINTENANCE AND ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
13. THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS.
14. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
A) CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS

GENERAL NOTES CONTINUED

14. B) CURRENT PREVAILING UTILITY COMPANY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS
15. THIS SET OF PLANS HAVE BEEN PREPARED FOR THE PURPOSE OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DRAWINGS UNTIL REVISED TO INDICATE "ISSUED FOR CONSTRUCTION".
16. ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

| | |
|------|--|
| AMP | AMPERE |
| AC | ALTERNATING CURRENT |
| AL | ALUMINUM |
| AF | AMP. FRAME |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AWG | AMERICAN WIRE GAUGE |
| C | CONDUIT (GENERIC TERM OF RACEWAY, PROVIDE AS SPECIFIED) |
| CB | COMBINER BOX |
| CKT | CIRCUIT |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| DC | DIRECT CURRENT |
| DISC | DISCONNECT SWITCH |
| DWG | DRAWING |
| EC | ELECTRICAL SYSTEM INSTALLER |
| EMT | ELECTRICAL METALLIC TUBING |
| FS | FUSIBLE SWITCH |
| FU | FUSE |
| GND | GROUND |
| GFI | GROUND FAULT INTERRUPTER |
| HZ | FREQUENCY (CYCLES PER SECOND) |

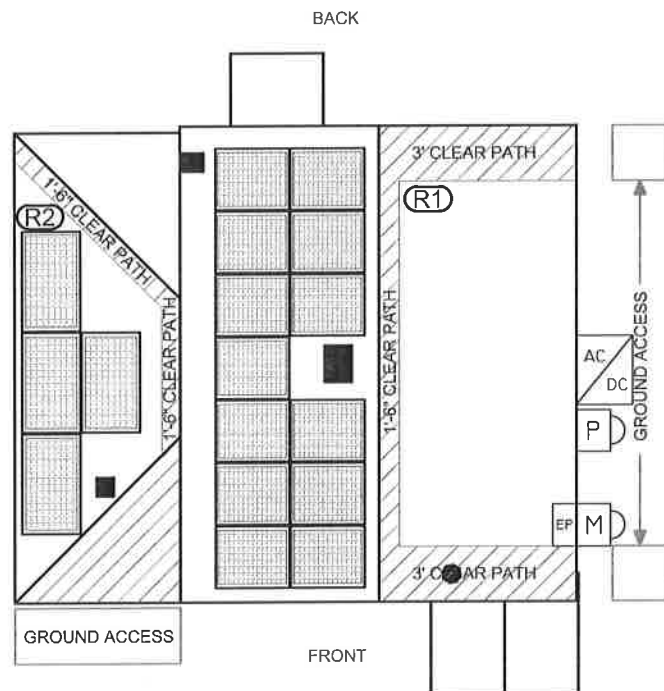
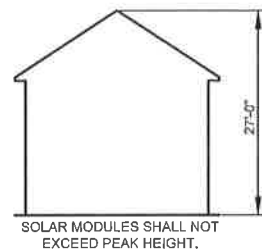
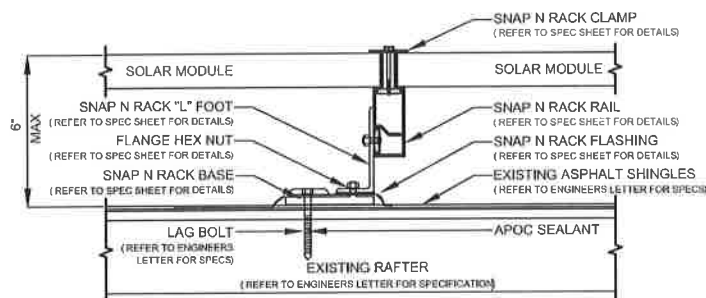
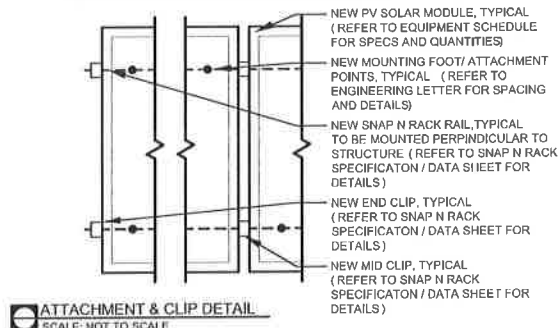
ABBREVIATIONS CONTINUED

| | |
|--------|--|
| JB | JUNCTION BOX |
| KCMIL | THOUSAND CIRCULAR MILS |
| KVA | KILO-VOLT AMPERE |
| KW | KILO-WATT |
| KWH | KILO-WATT HOUR |
| L | LINE |
| MCB | MAIN CIRCUIT BREAKER |
| MDP | MAIN DISTRIBUTION PANEL |
| MLO | MAIN LUG ONLY |
| MTD | MOUNTED |
| MTG | MOUNTING |
| N | NEUTRAL |
| NEC | NATIONAL ELECTRICAL CODE |
| NIC | NOT IN CONTRACT |
| NO # | NUMBER |
| NTS | NOT TO SCALE |
| OCP | OVER CURRENT PROTECTION |
| P | POLE |
| PB | PULL BOX |
| PH Ø | PHASE |
| PVC | POLY-VINYL CHLORIDE CONDUIT |
| PWR | POWER |
| QTY | QUANTITY |
| RGS | RIGID GALVANIZED STEEL |
| SN | SOLID NEUTRAL |
| JSWBD | SWITCHBOARD |
| TYP | TYPICAL |
| U.O.I. | UNLESS OTHERWISE INDICATED |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |
| +72 | MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE |

SHEET INDEX

- PV-1 COVER SHEET W/ SITE INFO & NOTES
PV-2 ROOF PLAN W/ MODULE LOCATIONS
PV-3 ELECTRICAL 3 LINE DIAGRAM
AP APPENDIX

NOTES : *REFER TO MODULE SPECS FOR ACTUAL MODULE DIMENSIONS
*DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



- NOTES:
- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - 2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
 - 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
 - 4.) AN AC DISCONNECT SHALL BE GROUPED WITH INVERTER (S) NEC 690.13 (E) .
 - 5.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM NEMA 3R RATING.
 - 6.) ROOFTOP SOLAR INSTALLATION ONLY PV ARRAY SHALL NOT EXTEND BEYOND THE EXISTING ROOF EDGE.

| ARRAY SCHEDULE | | SYMBOL LEGEND | | | | PLUMBING SCHEDULE | EQUIPMENT SCHEDULE | |
|----------------|--|---------------|---|-------|--|-------------------|---|----------------------------------|
| | | | | | | | QTY | SPEC # |
| R1 | ARRAY ORIENTATION = 214° MODULE PITCH = 43° | R1 | INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION | UD | INDICATES NEW UTILITY DISCONNECT TO BE INSTALLED OUTSIDE | | 17 | HANWHA 290 (Q,PEAK-BLK G4,1 290) |
| | | | | | | | 1 | SE3800H-US000NNC2 |
| R2 | ARRAY ORIENTATION = 214° MODULE PITCH = 18° | M | INDICATES EXISTING METER LOCATION | EP | INDICATES EXISTING ELECTRICAL PANEL LOCATION: INSIDE | P | INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE. | OTHER OBSTRUCTIONS |
| | | | | | | | | |
| | | | | | | | | |
| | | D | INDICATES NEW MAIN DISCONNECT | DC/AC | INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS. | | | |



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| NO. | DESCRIPTION | DATE |
|-----|-------------------------------|-----------|
| P1 | ISSUED TO TOWNSHIP FOR PERMIT | 8/16/2017 |

Project Title:

MCQUEEN, LESLIE
TRINITY ACCT #: 2017-07-170690

Project Address:

622 2ND STREET
MAMARONECK, NY 10543

Drawing Title:

PROPOSED PV SOLAR SYSTEM

Drawing Information

DRAWING DATE: 8/16/2017
DRAWN BY: JC
REVISED BY:

System Information:

DC SYSTEM SIZE: 4.93kW
AC SYSTEM SIZE: 3.8kW
TOTAL MODULE COUNT: 17
MODULES USED: HANWHA 290
MODULE SPEC #: Q,PEAK-BLK G4,1 290
UTILITY COMPANY: CON EDISON
UTILITY ACCT #: 54-4716-0554-000-0
UTILITY METER #: 7431964
DEAL TYPE: SUNNOVA

Rev. No.

P1

Sheet

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ARRAY CIRCUIT WIRING NOTES
1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH NEC 2014

2.) LOWEST EXPECTED AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP = -16°C

3.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMP = 33°C

4.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN A ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES)

5.) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS IN ACCORDANCE WITH NEC 690.12(1) THROUGH (5)

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT AS PER NEC 690.35

7.) UNGROUNDED DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITH THE FOLLOWING OUTER FINISH:
POSITIVE CONDUCTORS = RED
NEGATIVE CONDUCTORS = BLACK
NEC 210.5(C)(2)

8.) ARRAY AND SUB ARRAY CONDUCTORS SHALL BE #10 PV WIRE TYPE RHW-2 OR EQUIVALENT AND SHALL BE PROTECTED BY CONDUIT WHERE EXPOSED TO DIRECT SUNLIGHT. SUB ARRAY CONDUIT LONGER THAN 24" SHALL CONTAIN ≤ 20 CURRENT CARRYING CONDUCTORS AND WHERE EXPOSED TO DIRECT SUNLIGHT SHALL CONTAIN ≤ 9 CURRENT CARRYING CONDUCTORS.

9.) ALL WIRE LENGTHS SHALL BE LESS THAN 100' UNLESS OTHERWISE NOTED

10.) FLEXIBLE CONDUIT SHALL NOT BE INSTALLED ON ROOFTOP AND SHALL BE LIMITED TO 12" IF USED OUTDOORS

11.) OVERCURRENT PROTECTION FOR CONDUCTORS CONNECTED TO THE SUPPLY SIDE OF A SERVICE SHALL BE LOCATED WITHIN 10' OF THE POINT OF CONNECTION NEC 705.31

12.) WHERE TWO SOURCES FEED A BUSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY NEC 705.12(D)(2)(3)(b)

13.) ALL SOLAR SYSTEM LOAD CENTERS TO CONTAIN ONLY GENERATION CIRCUITS AND NO UNUSED POSITIONS OR LOADS

14.) ALL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE A NEMA 3R RATING

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS
REQUIRED CONDUCTOR AMPACITY PER STRING
[NEC 690.8(B)(1)]: $(15.00 \times 1.25)1 = 18.75A$

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 33°C, TEMP DERATING FACTOR: .96
RACEWAY DERATING = 2 CCC: 1.00
 $(40 \times .96)1.00 = 38.40A$

$38.40A \geq 18.75A$, THEREFORE WIRE SIZE IS VALID

TOTAL AC REQUIRED CONDUCTOR AMPACITY
 $16.00A \times 1.25 = 20.00A$

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
RACEWAY DERATING: 3 CCC: N/A
 $40A \times 1.0 = 40A$

$40A \geq 20.00A$, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION
TOTAL INVERTER CURRENT: 16.00A

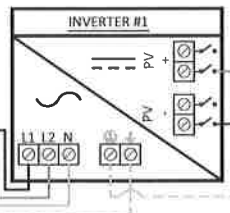
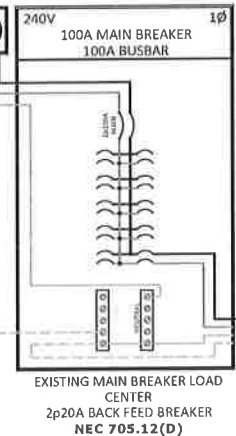
$16.00A \times 1.25 = 20.00A$
--> 20A OVERCURRENT PROTECTION IS VALID

| |
|---|
| SOLAR MODULES MOUNTED TO ROOF ON 2 ARRAYS 17 - 290W MODULES W/ 1 SOLAR EDGE P300 PER MODULE 15 ADC MAX PER STRING |
| 1 STRING OF 17 MODULES IN SERIES - 350 Vmax * TERMINATED INSIDE INVERTER 1 |

F

8"x8"
JUNCTION
BOX

EXISTING
1Ø 120/240V
UTILITY METER



D

| PV MODULE SPECIFICATIONS | |
|----------------------------------|-------|
| HANWHA 290 (Q.PEAK-BLK G4.1 290) | |
| Imp | 9.07 |
| Vmp | 31.96 |
| Voc | 39.19 |
| Isc | 9.56 |

| INVERTER #1 - SE3800H-US000NNC2 | |
|---------------------------------|---------------------|
| DC | AC |
| Imp | Pout |
| Vmp | I _{max} |
| Voc | OCPD _{min} |
| Isc | V _{nom} |

NOTE: CONDUIT TYPE SHALL BE CHOSEN BY THE INSTALLATION CONTRACTOR TO MEET OR EXCEED NEC AND LOCAL AHJ REQUIREMENTS.

| | |
|---|--|
| A | #6 THWN-2 GEC TO EXISTING GROUND ROD |
| B | 3/4" CONDUIT W/ 3-#10 THWN-2, 1-#10 THWN-2 GROUND |
| C | 3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND |
| D | 3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND |
| E | 3/4" CONDUIT W/ 3-#10 THWN-2, 1-#10 THWN-2 GROUND |
| F | #10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY |

Engineer / License Holder:



Issued / Revisions

| # | ISSUED TO TOWNSHIP FOR PERMIT | 8/16/2017 |
|-----|-------------------------------|-----------|
| NO. | DESCRIPTION | DATE |

Project Title:

MCQUEEN, LESLIE

TRINITY ACCT #: 2017-07-170690

Project Address:

622 2ND STREET
MAMARONECK, NY 10543

Drawing Title:

PROPOSED PV SOLAR SYSTEM

Drawing Information

DRAWING DATE: 8/16/2017
DRAWN BY: JC
REVISED BY:

System Information:

DC SYSTEM SIZE: 4.93kW
AC SYSTEM SIZE: 3.8kW
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MODULE SPEC #: Q.PEAK-BLK G4.1 290
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UTILITY ACCT #: 54-4716-0554-000-0
UTILITY METER #: 7431964
DEAL TYPE: SUNNOVA

Rev. No.

P1

Sheet

PV - 3

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MATERIAL LIST

(FOR INTERNAL USE ONLY)

JOB NAME: MCQUEEN, LESLIE
ADDRESS: 622 2ND STREET
MAMARONECK, NY 10543



| | | | |
|--|-------------------|-------------------|-------------------|
| 34.538 ESTIMATED MAN HOURS | 1.44 DAYS (3 MEN) | 1.08 DAYS (4 MEN) | 0.72 DAYS (6 MEN) |
| <ul style="list-style-type: none"> • 17 HANWHA 290's (4.93KW) • 2 SEPARATE ARRAYS • 27' PEAK TO GROUND • 13 PORTRAIT & 4 LANDSCAPED • NO PIPES OR VENTS BEINGS RELOCATED OR REMOVED • 1 INVERTERS INSTALLED OUTSIDE • NO TRENCH | | | |

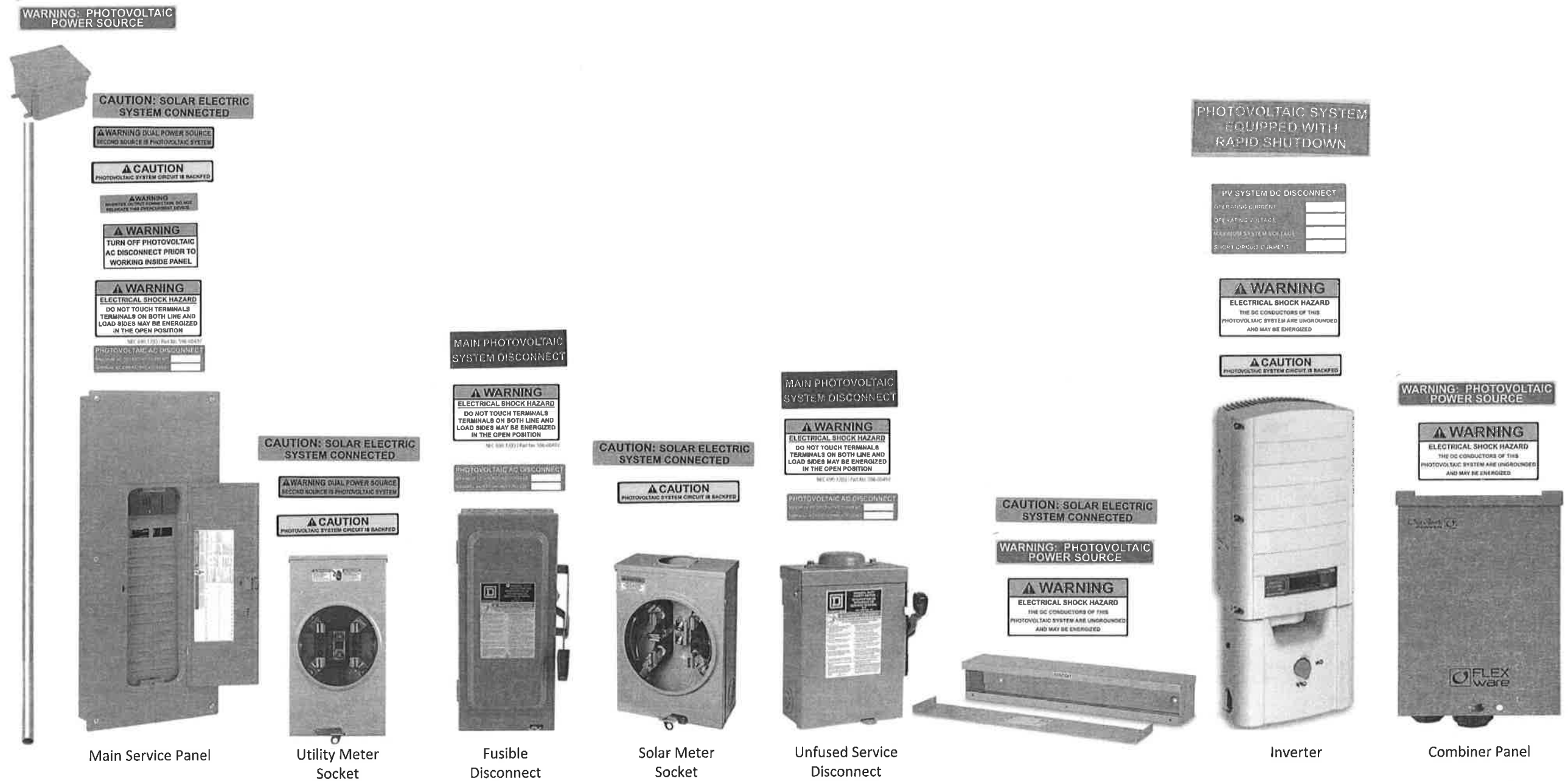
| | ESTIMATED | SENT TO JOB | USED |
|---|-----------|-------------|------|
| <input type="checkbox"/> HANWHA 290 (Q.PEAK-BLK G4.1 290) ---- P300 SE OPTIMIZERS | 17 | — | — |
| <input type="checkbox"/> SE3800H-US000NNC2 | 1 | — | — |
| <input type="checkbox"/> GE 2p20A BACKFEED BREAKER | 1 | — | — |
| <input type="checkbox"/> (SUNNOVA) METER AND METER PAN | — | — | — |
| <input type="checkbox"/> SOLADECK BOX(ES) & HAYCO CONNECTOR(S) | 2 | — | — |
| <input type="checkbox"/> 14' SECTIONS OF RAIL | 12 | — | — |
| <input type="checkbox"/> FLASHINGS | 34 | — | — |
| <input type="checkbox"/> CASE(S) OF BLACK SPRAY PAINT | 1 | — | — |
| <input type="checkbox"/> CASE(S) OF TAR | 1 | — | — |
| <input type="checkbox"/> PV LEAD WIRE | 50' | — | — |
| <input type="checkbox"/> T-BOLTS | — | — | — |
| <input type="checkbox"/> MID CLIPS | — | — | — |
| <input type="checkbox"/> END CLIPS | — | — | — |
| <input type="checkbox"/> SPLICE KITS | — | — | — |
| <input type="checkbox"/> GROUND LUGS | — | — | — |

INSTALLATION OF NEW
ROOF MOUNTED PV SOLAR SYSTEM

MCQUEEN, LESLIE
622 2ND STREET
MAMARONECK, NY 10543

APPENDIX

CONTENTS
LABELS, STICKERS, AND PLACARDS
EQUIPMENT DATA SHEETS



NOTES:

- 1.) REFER TO SHEET PV-3 FOR SITE SPECIFIC VALUES REQUIRED BY NEC 690
- 2.) STICKERS, LABELS, AND PLACKARDS SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

powered by
Q.ANTUM

Q.PEAK BLK-G4.1 285-295

Q.ANTUM SOLAR MODULE

With its top performance and completely black design the new Q.PEAK BLK-G4.1 is the ideal solution for all residential rooftop applications thanks to its innovative cell technology Q.ANTUM. The world-record cell design was developed to achieve the best performance under real conditions – even with low radiation intensity and on clear, hot summer days.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area and lower BOS costs thanks to higher power classes and an efficiency rate of up to 18.0%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti-PID Technology¹, Hot-Spot-Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa) regarding IEC.



MAXIMUM COST REDUCTIONS

Up to 10% lower logistics costs due to higher module capacity per box.



A RELIABLE INVESTMENT

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THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings

Engineered in Germany



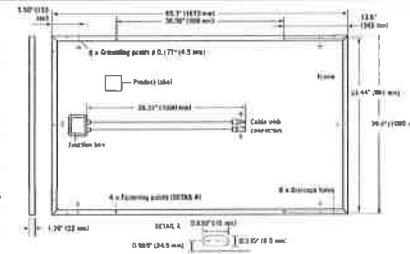
¹ APT test conditions: Cells at -1500V against grounded, with conductive metal foil covered module surface, 25°C, 168h

² See data sheet on rear for further information.

Q CELLS

MECHANICAL SPECIFICATION

| | |
|--------------|--|
| Format | 65.7 in x 39.4 in x 1.26 in (including frame) (1670 mm x 1000 mm x 32 mm) |
| Weight | 41.45 lbs (18.8 kg) |
| Front Cover | 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology |
| Back Cover | Composite film |
| Frame | Black anodised aluminum |
| Cell | 6 x 10 monocrystalline Q.ANTUM solar cells |
| Junction box | 2.60-3.03 in x 4.37-3.54 in x 0.59-0.75 in (66-77 mm x 111-90 mm x 15-19 mm), Protection class IP67, with bypass diodes |
| Cable | 4 mm ² Solar cable; (+) ≥ 39.37 in (1000 mm), (-) ≥ 39.37 in (1000 mm) |
| Connector | Multi-Contact MC4 or MC4 intermateable, IP68 |

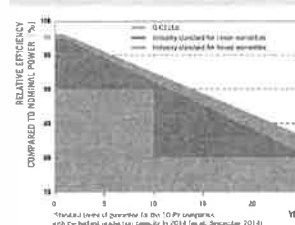


ELECTRICAL CHARACTERISTICS

| POWER CLASS | | | | 285 | 290 | 295 |
|---|---------------------------|------------------|-----|--------|--------|--------|
| MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W / -0W) | | | | | | |
| Minimum | Power at MPP ² | P _{MPP} | [W] | 285 | 290 | 295 |
| | Short Circuit Current* | I _{sc} | [A] | 9.56 | 9.63 | 9.70 |
| | Open Circuit Voltage* | V _{oc} | [V] | 38.91 | 39.19 | 39.48 |
| | Current at MPP* | I _{MPP} | [A] | 8.98 | 9.07 | 9.17 |
| | Voltage at MPP* | V _{MPP} | [V] | 31.73 | 31.96 | 32.19 |
| | Efficiency ² | η | [%] | ≥ 17.1 | ≥ 17.4 | ≥ 17.7 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ² | | | | | | |
| Minimum | Power at MPP ² | P _{MPP} | [W] | 210.7 | 214.4 | 218.1 |
| | Short Circuit Current* | I _{sc} | [A] | 7.71 | 7.77 | 7.82 |
| | Open Circuit Voltage* | V _{oc} | [V] | 36.38 | 36.65 | 36.92 |
| | Current at MPP* | I _{MPP} | [A] | 7.04 | 7.12 | 7.20 |
| | Voltage at MPP* | V _{MPP} | [V] | 29.92 | 30.12 | 30.30 |

¹ 1000 W/m², 25°C, spectrum AM 1.5G ² Measurement tolerances STC ± 3%; NOC ± 5% ³ 800 W/m², NOCT, spectrum AM 1.5G ⁴ typical values, actual values may differ

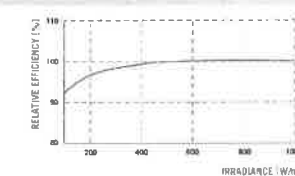
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year, thereafter max. 0.6% degradation per year.
At least 92.6% of nominal power up to 10 years.
At least 83.6% of nominal power up to 25 years.

All data within measurement tolerances.
Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

| | | | | | |
|---|---------|-------|--|-----------|----------------------|
| Temperature Coefficient of I _{sc} | α [%/K] | +0.04 | Temperature Coefficient of V _{oc} | β [%/K] | -0.28 |
| Temperature Coefficient of P _{MPP} | γ [%/K] | -0.39 | Normal Operating Cell Temperature | NOCT [°F] | 113 ± 5.4 (45 ± 3°C) |

PROPERTIES FOR SYSTEM DESIGN

| | | | | |
|---|------------------------|------------------------|--|---|
| Maximum System Voltage V _{sys} | [V] | 1000 (IEC) / 1000 (UL) | Safety Class | II |
| Maximum Series Fuse Rating | [A DC] | 20 | Fire Rating | C (IEC) / TYPE I (UL) |
| Design load, push (UL) ² | [lbs/ft ²] | 75 (3600 Pa) | Permitted module temperature on continuous dirty | -40°F up to +185°F (-40°C up to +85°C) |
| Design load, pull (UL) ² | [lbs/ft ²] | 55.6 (2666 Pa) | ² see installation manual | |

QUALIFICATIONS AND CERTIFICATES

UL 1703; VDE Quality Tested; CE-compliant; IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A



PACKAGING INFORMATION

| | |
|-------------------------------------|--|
| Number of Modules per Pallet | 32 |
| Number of Pallets per 53' Container | 30 |
| Number of Pallets per 40' Container | 26 |
| Pallet Dimensions (L x W x H) | 68.7 in x 45.3 in x 46.1 in (1745 mm x 1150 mm x 1170 mm) |
| Pallet Weight | 1435 lbs (651 kg) |

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS America Inc.
300 Spectrum Center Drive, Suite 1250, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | MAIL inquiry@us.q-cells.com | WEB www.q-cells.us

Specifications subject to technical changes © Hanwha Q CELLS Q.PEAK BLK-G4.1_285-295_2016-08_Rev03_NA



SolarEdge Single Phase Inverters
for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US /
SE7600H-US



Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated Arc Fault protection and Rapid Shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Extremely small and easy to install outdoors or indoors
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)



USA CANADA GERMANY ITALY FRANCE JAPAN CHINA AUSTRALIA THE NETHERLANDS UK ISRAEL TURKEY SOUTH AFRICA BULGARIA

www.solaredge.us



Single Phase Inverters for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US

| | SE3000H-US | SE3800H-US | SE5000H-US | SE6000H-US | SE7600H-US | |
|--|---|-------------|---------------------------------|-------------|--|---------|
| OUTPUT | | | | | | |
| Rated AC Power Output | 3000 | 3800 | 5000 | 6000 | 7600 | VA |
| Max. AC Power Output | 3000 | 3800 | 5000 | 6000 | 7600 | VA |
| AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229) | | | ✓ | | | Vac |
| AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264) | ✓ | ✓ | ✓ | ✓ | ✓ | Vac |
| AC Frequency (Nominal) | | | 59.3 - 60 - 60.5 ⁽¹⁾ | | | Hz |
| Maximum Continuous Output Current 208V | | | 24 | | | A |
| Maximum Continuous Output Current 240V | 12.5 | 16 | 21 | 25 | 32 | A |
| GFDI Threshold | | | 1 | | | A |
| Utility Monitoring, Islanding Protection, Country Configurable Thresholds | | | Yes | | | |
| INPUT | | | | | | |
| Maximum DC Power | 4650 | 5900 | 7750 | 9300 | 11800 | W |
| Transformer-less, Ungrounded | | | Yes | | | |
| Maximum Input Voltage | | | 480 | | | Vdc |
| Nominal DC Input Voltage | | | 380 | | 400 | Vdc |
| Maximum Input Current 208V ⁽²⁾ | | | 13.5 | | | Adc |
| Maximum Input Current 240V ⁽²⁾ | 8.5 | 10.5 | 13.5 | 16.5 | 20 | Adc |
| Max. Input Short Circuit Current | | | 45 | | | Adc |
| Reverse-Polarity Protection | | | Yes | | | |
| Ground-Fault Isolation Detection | | | 600k Ω Sensitivity | | | |
| Maximum Inverter Efficiency | 99 | | 99.2 | | | % |
| CEC Weighted Efficiency | | | 99 | | | % |
| Nighttime Power Consumption | | | < 2.5 | | | W |
| ADDITIONAL FEATURES | | | | | | |
| Supported Communication Interfaces | RS485, Ethernet, ZigBee (optional), Cellular (optional) | | | | | |
| Revenue Grade Data, ANSI C12.20 | Optional ⁽³⁾ | | | | | |
| Rapid Shutdown - NEC 2014 and 2017 690.12 | Automatic Rapid Shutdown upon AC Grid Disconnect | | | | | |
| STANDARD COMPLIANCE | | | | | | |
| Safety | UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07 | | | | | |
| Grid Connection Standards | IEEE1547, Rule 21, Rule 14 (H) | | | | | |
| Emissions | FCC Part 15 Class B | | | | | |
| INSTALLATION SPECIFICATIONS | | | | | | |
| AC Output Conduit Size / AWG Range | 0.75-1" Conduit / 14-6 AWG | | | | | |
| DC Input Conduit Size / # of Strings / AWG Range | 0.75-1" Conduit / 1-2 strings / 14-6 AWG | | | | | |
| Dimensions with Safety Switch (HxWxD) | 17.7 x 14.6 x 6.8 / 450 x 370 x 174 | | | | | in / mm |
| Weight with Safety Switch | 22 / 10 | 25.1 / 11.4 | | 26.2 / 11.9 | | lb / kg |
| Noise | < 25 | | | | < 50 | dBA |
| Cooling | Natural Convection | | | | Natural convection and internal fan (user replaceable) | |
| Operating Temperature Range | -13 to +140 / -25 to +60 ⁽⁴⁾ (-40°F / -40°C option) ⁽³⁾ | | | | | °F / °C |
| Protection Rating | NEMA 3R (Inverter with Safety Switch) | | | | | |

⁽¹⁾ For other regional settings please contact SolarEdge support.
⁽²⁾ A higher current source may be used; the inverter will limit its input current to the values stated.
⁽³⁾ Revenue grade inverter I/P: SExxxxH-US000MNC2.
⁽⁴⁾ Power derating from 50°C.
⁽⁵⁾ -40 version I/P: SExxxxH-US000MNC4.



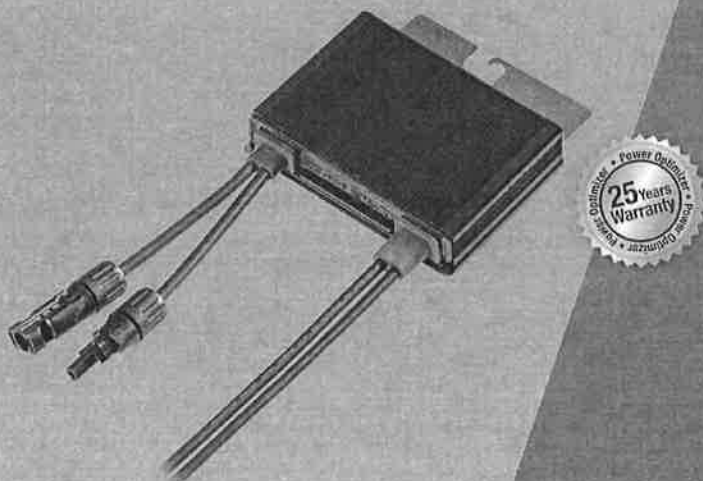
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SolarEdge Power Optimizer

Module Add-On For North America

P300 / P320 / P370 / P400 / P405



POWER OPTIMIZER

PV power optimization at the module-level

- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Module-level voltage shutdown for installer and firefighter safety

USA - CANADA - GERMANY - ITALY - FRANCE - JAPAN - CHINA - AUSTRALIA - THE NETHERLANDS - UK - ISRAEL - TURKEY - SOUTH AFRICA - BULGARIA - INDIA

www.solaredge.us



SolarEdge Power Optimizer

Module Add-On for North America

P300 / P320 / P370 / P400 / P405

| | P300 (for 60-cell modules) | P320 (for high-power 60-cell modules) | P370 (for higher-power 60 and 72-cell modules) | P400 (for 72 & 96-cell modules) | P405 (for thin film modules) | |
|--|-------------------------------|--|--|------------------------------------|----------------------------------|---------|
| INPUT | | | | | | |
| Rated Input DC Power ⁽¹⁾ | 300 | 320 | 370 | 400 | 405 | W |
| Absolute Maximum Input Voltage (Voc at lowest temperature) | | 48 | 60 | 80 | 125 | Vdc |
| MPPT Operating Range | | 8 - 48 | 8 - 60 | 8 - 80 | 12.5 - 105 | Vdc |
| Maximum Short Circuit Current (Isc) | | | 11 | | 10.1 | Adc |
| Maximum DC Input Current | 12.5 | | 13.75 | | 12.63 | Adc |
| Maximum Efficiency | | | 99.5 | | | % |
| Weighted Efficiency | | | 98.8 | | | % |
| Overvoltage Category | | | II | | | |
| OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREDGE INVERTER) | | | | | | |
| Maximum Output Current | | | 15 | | | Adc |
| Maximum Output Voltage | | | 60 | | 85 | Vdc |
| OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAREDGE INVERTER OFF) | | | | | | |
| Safety Output Voltage per Power Optimizer | | | 1 | | | Vdc |
| STANDARD COMPLIANCE | | | | | | |
| EMC | | | FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3 | | | |
| Safety | | | IEC62109-1 (class II safety), UL1741 | | | |
| RoHS | | | Yes | | | |
| INSTALLATION SPECIFICATIONS | | | | | | |
| Maximum Allowed System Voltage | | | 1000 | | | Vdc |
| Compatible inverters | | | All SolarEdge Single Phase and Three Phase Inverters | | | |
| Dimensions (W x L x H) | | 128 x 152 x 27.5 / 5 x 5.97 x 1.08 | | 128 x 152 x 35 / 5 x 5.97 x 1.37 | 128 x 152 x 50 / 5 x 5.97 x 1.96 | mm / in |
| Weight (including cables) | | 630 / 1.4 | | 750 / 1.7 | 845 / 1.9 | g / lb |
| Input Connector | | MC4 Compatible | MC4 / Amphenol AH4 Double Insulated; | MC4 Compatible | | |
| Output Wire Type / Connector | | Double Insulated; MC4 Compatible | MC4 / Amphenol AH4 | Double Insulated; MC4 Compatible | | |
| Output Wire Length | | 0.95 / 3.0 | | 1.2 / 3.9 | | m / ft |
| Operating Temperature Range | | | -40 - +85 / -40 - +185 | | | °C / °F |
| Protection Rating | | | IP68 / NEMA6P | | | |
| Relative Humidity | | | 0 - 100 | | | % |

⁽¹⁾ Rated STC power of the module. Module of up to +5% power tolerance allowed.

| PV SYSTEM DESIGN USING A SOLAREDGE INVERTER ⁽¹⁾⁽²⁾ | SINGLE PHASE HD-WAVE | SINGLE PHASE | THREE PHASE 208V | THREE PHASE 480V | |
|--|--------------------------------|--------------|------------------|------------------|---|
| Minimum String Length (Power Optimizers) | | 8 | 10 | 18 | |
| Maximum String Length (Power Optimizers) | | 25 | 25 | 50 | |
| Maximum Power per String | 5700 (6000 with SE7600H-US) | 5250 | 6000 | 12750 | W |
| Parallel Strings of Different Lengths or Orientations | | | Yes | | |

⁽¹⁾ For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf

⁽²⁾ It is not allowed to mix P405 with P300/P370/P400/P600/P700 in one string.



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POWER DISTRIBUTION

BUG•BITES™

Insulation Piercing Connectors

Eliminates need for conductor insulation stripping

No taping required after installation

For copper to copper, copper to aluminum, or aluminum to aluminum applications

For use on insulated conductor only



CU9AL
90°C



CAUTION
Use Bug•Bites on
insulated cable only!
Do not install on bare cable.

IPC SERIES

| NAED NUMBER | CATALOG NUMBER | WIRE RANGE | | VOLTS | BOLTS | TORQUE FT-LBS | CTN QTY | EST. SHIPPING | |
|----------------|-------------------|------------|-----------|-------|-------|------------------|------------|---------------|------|
| | | MAIN | TAP | | | | | WEIGHT (lbs) | UNIT |
| 13110 | IPC 1002 | 1/0 - 8 | 2 - 8 | 300 | 1 | 16 | 12 | 2.63 | CTN |
| 13107 | *IPC 4006 | 4/0 - 4 | 6 - 14 | 600 | 1 | 13 | 12 | 1.90 | CTN |
| 13108 | *IPC 4020 | 4/0 - 2 | 2/0 - 6 | 600 | 1 | 25 | 12 | 4.08 | CTN |
| 13109 | *IPC 2540 | 250 - 1 | 4/0 - 6 | 600 | 1 | 30 | 6 | 4.17 | CTN |
| 13113 | IPC 3540 | 350 - 4/0 | 4/0 - 10 | 300 | 1 | 25 | 6 | 4.17 | CTN |
| 13114 | IPC 3535 | 350 - 4/0 | 350 - 4/0 | 300 | 2 | 25 | 6 | 7.63 | CTN |
| 13116 | †IPC 5012 | 500 - 250 | 10 - 12 | 300 | 1 | 25 | 4 | 2.85 | CTN |
| 13104 | *IPC 5025 | 500 - 250 | 250 - 4 | 600 | 1 | 55 | 4 | 4.06 | CTN |
| 13105 | *IPC 5050 | 500 - 300 | 500 - 250 | 600 | 1 | 75 | 1 | 2.64 | EA |
| 13106 | *IPC 7550 | 750 - 500 | 500 - 350 | 600 | 1 | 75 | 1 | 2.62 | EA |

*600 Volts, balance 300 Volts (for 480V grounded Y systems)

† Not CSA certified

GUTTER TAP CONNECTORS

High strength aluminum alloy 6061-T6, tin-plated

Lay-in designed main conductor remains continuous

Tap parallel or perpendicular to main

GP SERIES

| NAED NUMBER | CATALOG NUMBER | CONDUCTOR RANGE | | APPROX. DIMENSIONS (IN) | | | CTN QTY | EST. SHIPPING | |
|----------------|-------------------|-----------------|--------------|-------------------------|--------|--------|------------|---------------|------|
| | | MAIN | TAP | H | W | L | | WEIGHT (lbs) | UNIT |
| 13117 | GP 2* | 2 - 12 | 4 - 12 SOL | 7/8 | 5/8 | 1 7/16 | 24 | 1.43 | CTN |
| 13118 | GP 10 | 1/0 - 2 | 1/0 - 12 SOL | 1 | 3/4 | 1 1/4 | 12 | 1.19 | CTN |
| 13119 | GP 250 | 250 - 1/0 | 250 - 6 | 1 1/16 | 1 1/16 | 2 1/16 | 12 | 2.54 | CTN |
| 13121 | GP 350 | 350 - 4/0 | 350 - 6 | 1 1/16 | 1 1/4 | 2 1/16 | 6 | 2.75 | CTN |
| 13122 | GP 500 | 500 - 350 | 500 - 2 | 1 1/4 | 1 1/8 | 3 1/4 | 6 | 3.10 | CTN |
| 13123 | GP 750 | 750 - 500 | 500 - 2 | 2 | 1 1/2 | 3 1/2 | 3 | 2.5 | CTN |

*GP2 has slotted screws.

Oxide-inhibitor is recommended for added corrosion protection.

Snap-on insulating covers for use with GP connectors

GPC SERIES

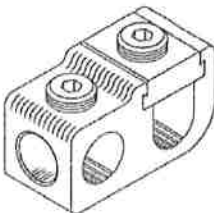
| NAED NUMBER | CATALOG NUMBER | FOR USE WITH CONNECTOR | COLOR | APPROX. DIMENSIONS (IN) | | | CTN QTY | EST. SHIPPING | |
|----------------|-------------------|---------------------------|--------|-------------------------|--------|--------|------------|---------------|------|
| | | | | H | W | L | | WEIGHT (lbs) | UNIT |
| 13137 | GPC 2 | GP2 | YELLOW | 1 1/16 | 1 7/16 | 1 1/16 | 12 | 0.46 | CTN |
| 13138 | GPC 10 | GP10 | GRAY | 1 1/4 | 2 1/16 | 2 1/4 | 6 | 0.36 | CTN |
| 13140 | GPC 250 | GP250 | RED | 1 1/8 | 2 1/8 | 3 1/16 | 6 | 0.40 | CTN |
| 13141 | GPC 350 | GP350 | YELLOW | 1 1/4 | 3 1/16 | 3 1/4 | 3 | 0.42 | CTN |
| 13142 | GPC 500 | GP500 | BLUE | 2 1/16 | 3 1/16 | 4 1/2 | 3 | 0.46 | CTN |
| 13134 | GPC 750 | GP750 | ORANGE | 2 1/16 | 3 1/8 | 4 1/8 | 3 | 0.65 | CTN |

www.greaves-usa.com
11 Heritage Park, Clinton, CT 06413 • Phone 860-664-4505 • Fax 860-664-4546
TOLL FREE 1-800-243-1130 (Outside CT)



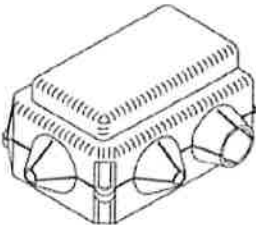
Dual-Rated

CU9AL
600V 90°C



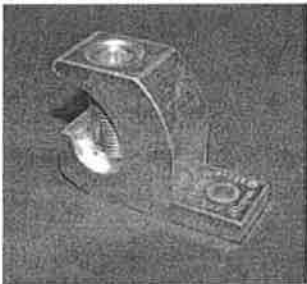
For copper-to-copper,
copper-to-aluminum,
aluminum-to-aluminum

600V 90°C
For indoor use only



Grounding Connectors

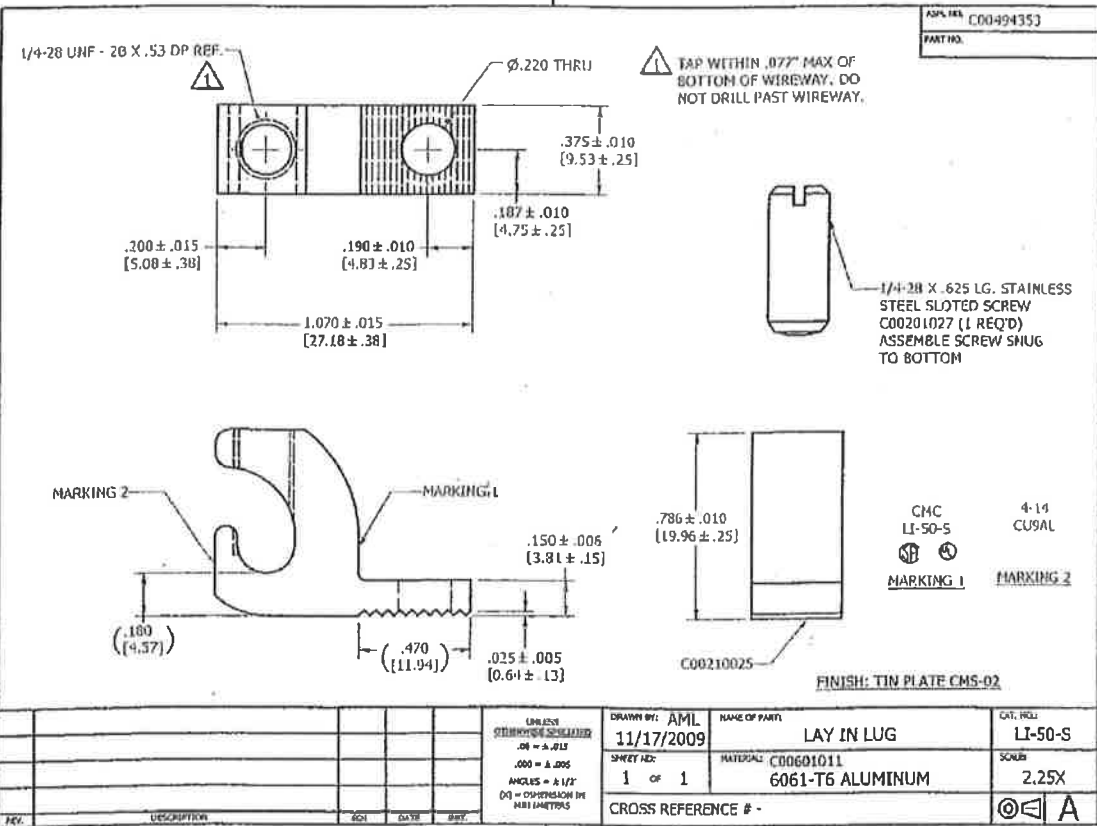
TYPE: LI Lay-In Connector



90°C RATING (486B LISTED)

CMC® LI-S ground connectors are manufactured from high strength 6061-T6 aluminum alloy to insure both maximum strength and conductivity. They are dual rated for both copper and aluminum conductors and are electro tin plated to provide low contact resistance and protection against corrosion. They are designed for use on conduit grounding bushings. The open-faced design allows the installer to quickly lay-in the grounding conductor as a jumper to multiple conduits with no break in the ground conductor.

| Catalog Number | Fig. No. | Cond. Range AWG | Stud Size* | Dimensions, Inches | | |
|-------------------|----------|--------------------|------------|--------------------|------|------|
| | | | | H | W | L |
| LI-50S | 1 | 4 - 14 | 0.22 | 0.78 | 0.38 | 1.07 |
| LI-112S | 1 | 1/0 - 14 | 0.27 | 1.17 | 0.6 | 1.5 |
| LI-200S | 2 | 3/0 - 6 | 0.33 | 1.56 | 0.8 | 2 |
| LI-252S | 2 | 250 - 6 | 0.33 | 1.79 | 0.8 | 2.2 |



Series 100 Residential Roof Mount System

The SnapNrack Series 100 Roof Mount System is engineered to optimize material use, labor resources and aesthetic appeal. This innovative system simplifies the process of installing solar modules, shortens installation times, and lowers installation costs; maximizing productivity and profits.

The Series 100 Roof Mount System boasts unique, pre-assembled, stainless steel “Snap-In” hardware and watertight flash attachments. This system is installed with a single tool. No cutting or drilling means less rail waste. It is fully integrated with built-in wire management, solutions for all roof types, one-size-fits-all features, and can withstand extreme environmental conditions. Series 100 is listed to UL Standard 2703 for Grounding/Bonding, Fire Classification and Mechanical Loading. UL 2703 Certification and Compliance ensures that SnapNrack installers can continue to provide the best in class installations in quality, safety and efficiency.

- Appealing design with built-in aesthetics
- No grounding lugs required for modules
- All bonding hardware is fully integrated
- Rail splices bond rails together, no rail jumpers required
- No drilling of rail or reaching for other tools required
- Class A Fire Rating for Type 1 and 2 modules



System Features Include



Snap In Hardware



Single Tool Installation



Easy Leveling



No Cutting or Drilling



Integrated Wire Management



Preassembled hardware

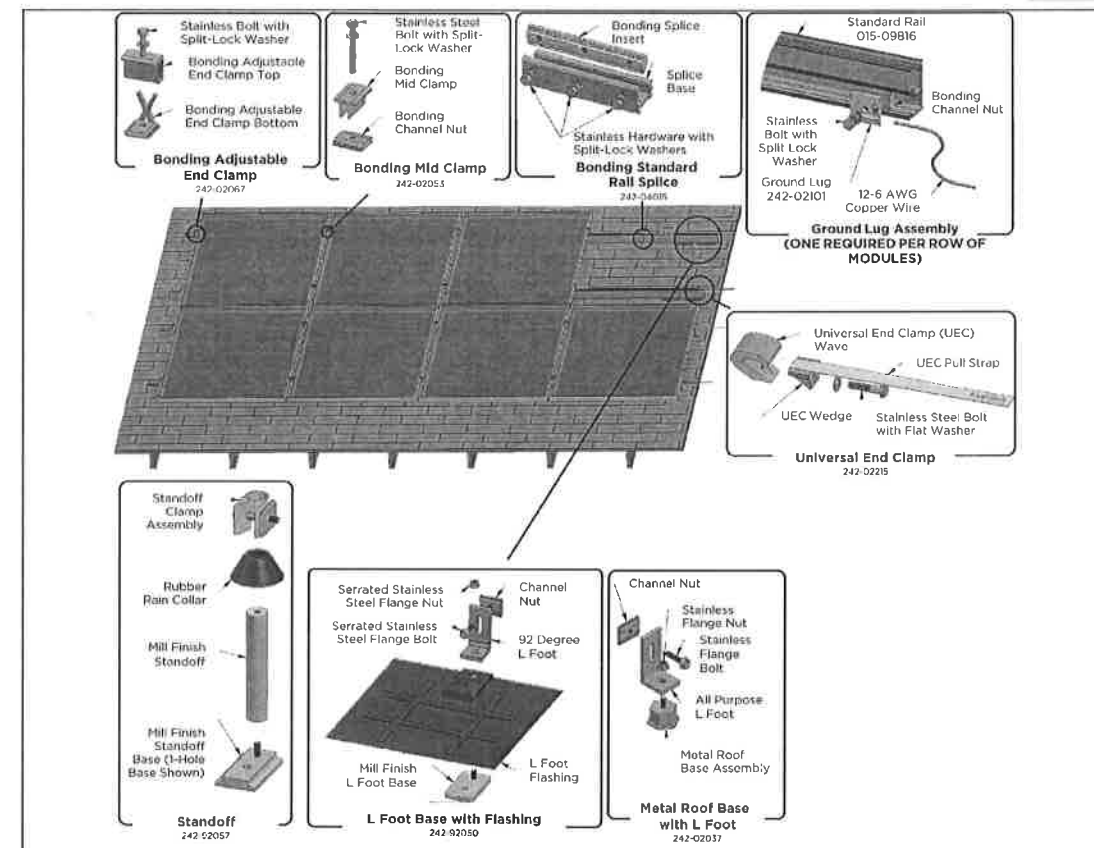


Integrated bonding



UL 2703 Certified

Resources snapnrack.com/resources | Design snapnrack.com/configurator | Where to Buy snapnrack.com/where-to-buy



SERIES 100 TECHNICAL DATA

Materials

- 6000 Series aluminum
- Stainless steel
- Galvanized steel and aluminum flashing
- Silver and black anodized aluminum
- Mill finish on select products
- Silver or black coated hardware

Note: Appearance of mill finish products may vary and change over time.

Wind Loads

110 - 190 mph (ASCE 7-10)

Snow Loads

0 - 120 psf

Array Pitch

0 - 60 degrees

877-732-2860

www.snapnrack.com

contact@snapnrack.com

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SnapNrack Series 100 Brochure 2.1

Village of Mamaroneck, NY

Item Title: 1219 Henry Avenue

Item Summary: 1219 HENRY AVENUE - 2 STORY ADDITION AND 2ND FLOOR ADDITION
APPLICANT: STEPHEN MARCHESANI - ARCHITECT

Fiscal Impact:

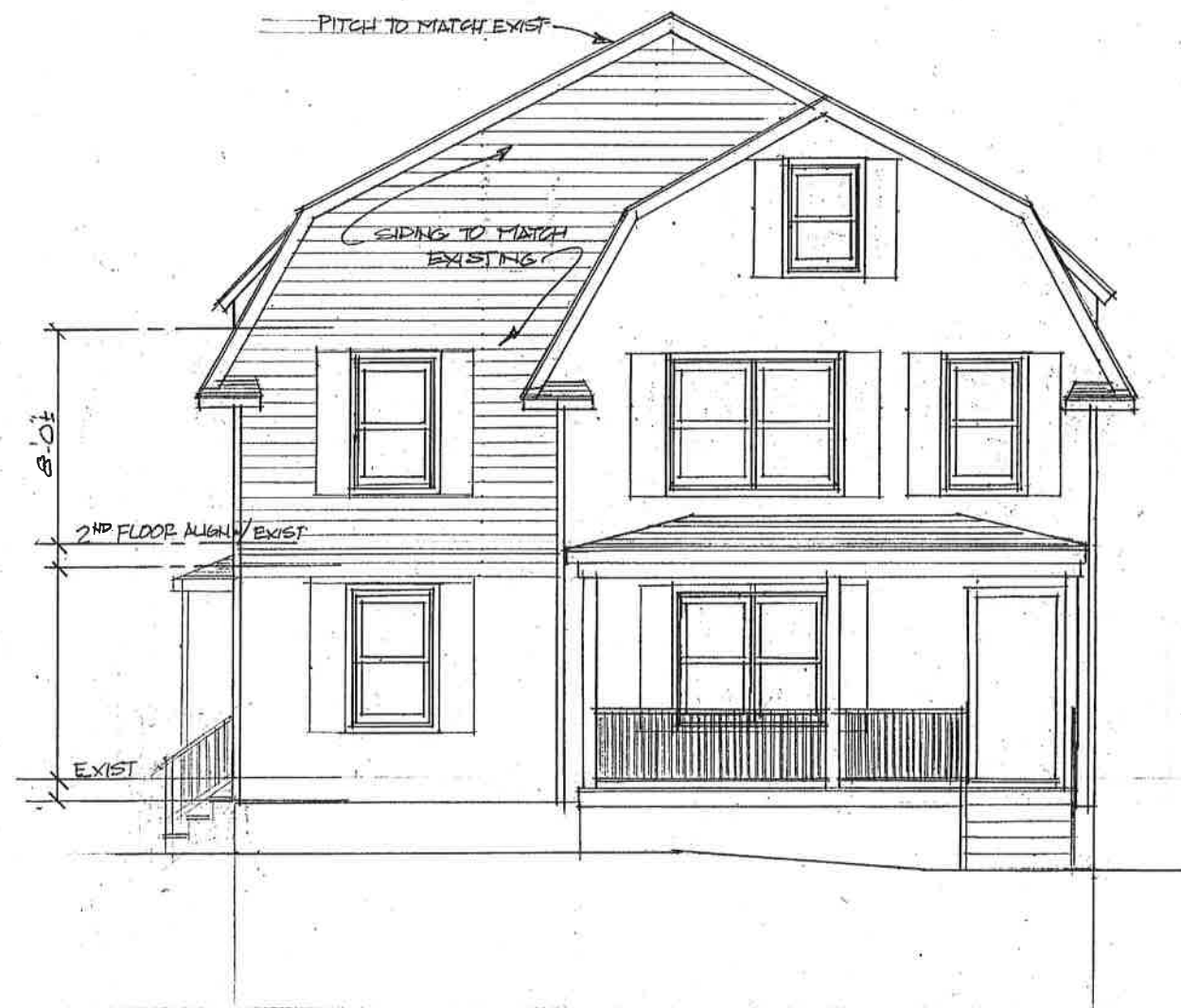
ATTACHMENTS:

| <u>Description</u> | <u>Upload Date</u> | <u>Type</u> |
|---------------------------|---------------------------|--------------------|
| 1219 Henry | 10/12/2017 | Presentation |

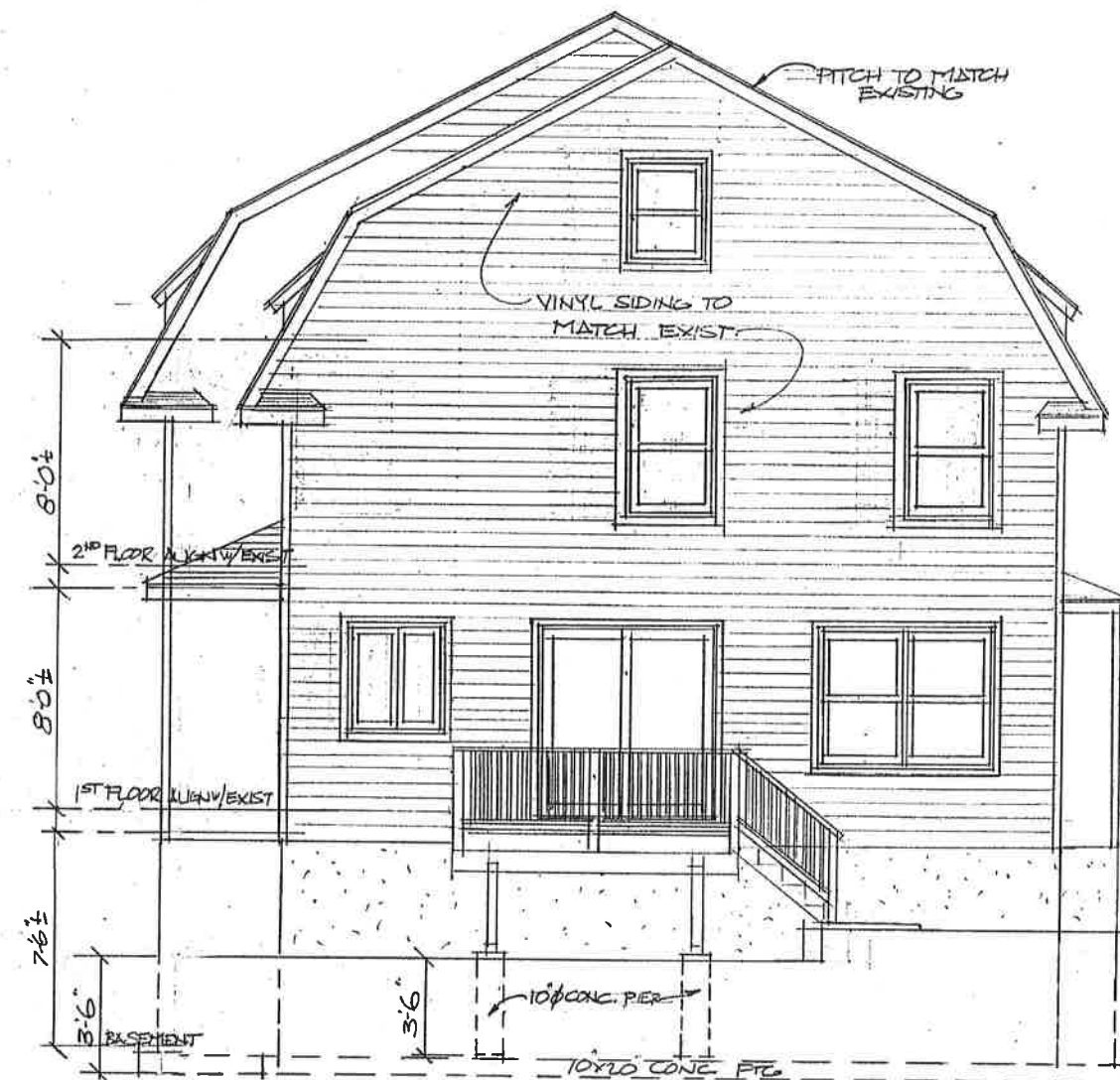
RECEIVED

OCT 10 2017

VILLAGE OF MAMARONECK
BUILDING DEPARTMENT

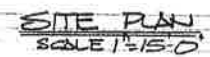
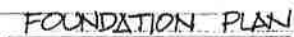


FRONT ELEVATION



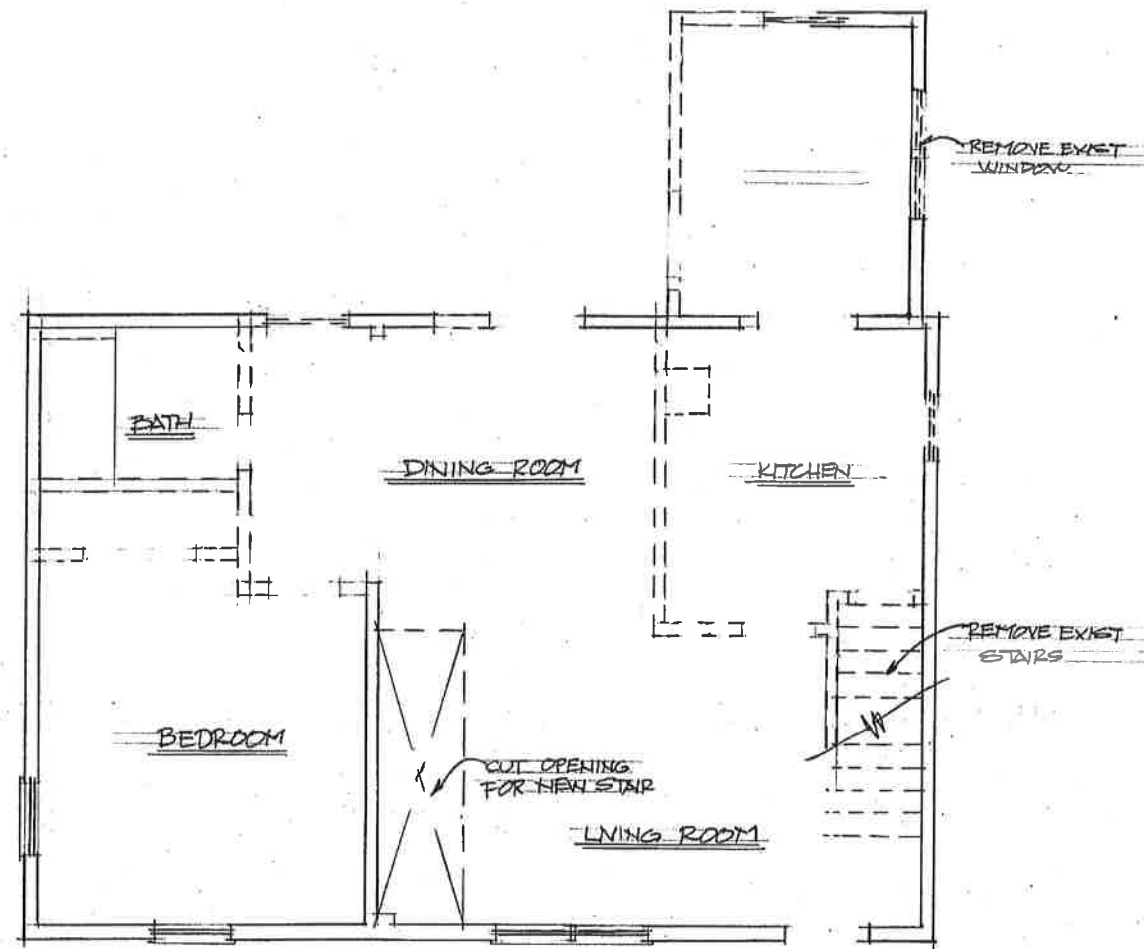
REAR ELEVATION

| | | |
|--|--|---|
| seal | PROJECT | drawing number AI |
| | PROPOSED ADDITION FOR MR. GALLINELLI 1219 HENRY AVE MAMARONECK, NY | |
| Stephen Marchesani 5 Scott Circle Purchase, New York | drawing ELEVATIONS | date 10/5/17 scale 1/4"=1'-0" drawn by SM |

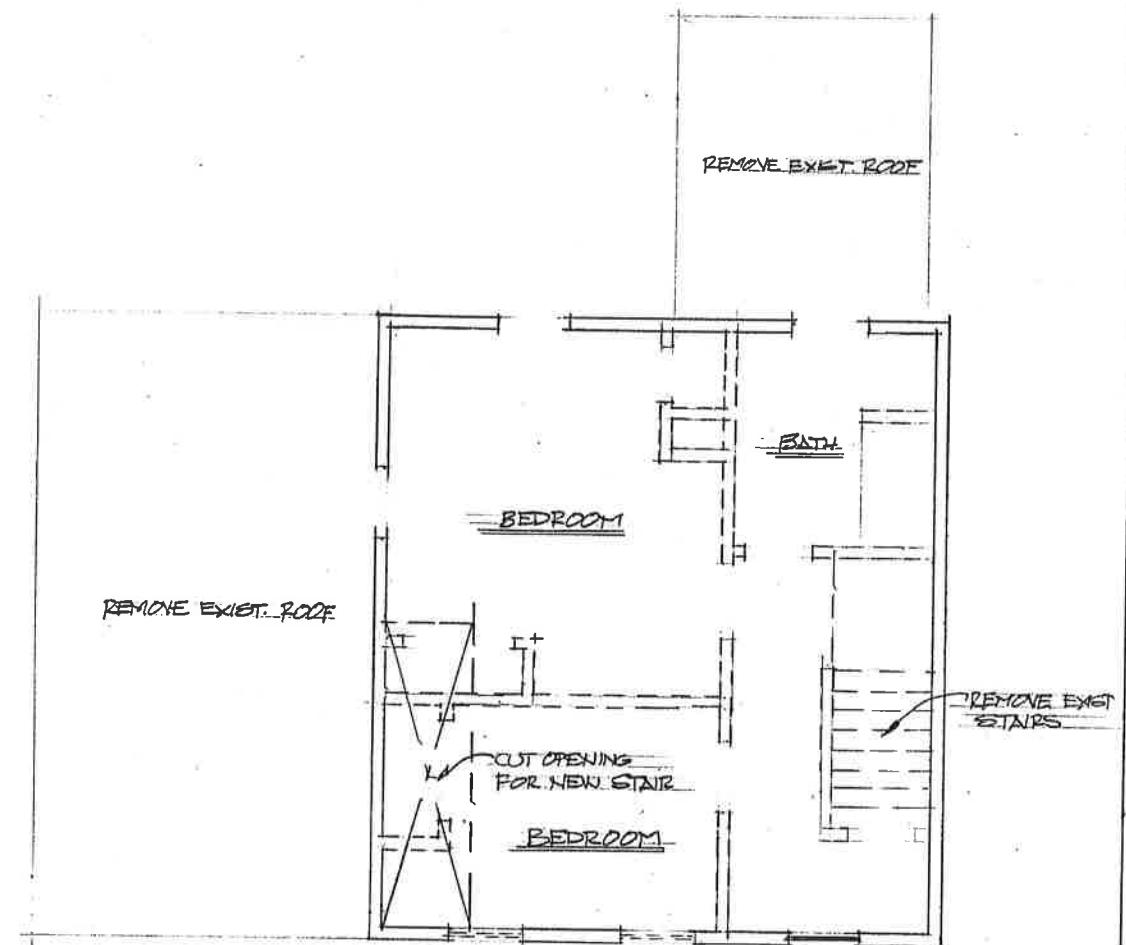


| | <u>REQUIRED</u> | <u>ACTUAL</u> |
|--------------------|--------------------|--------------------|
| LOT AREA | 5000 ^{sq} | 5000 ^{sq} |
| LOT COVERAGE | 35% | 31.4% |
| LOT WIDTH | 50'-0" | 50'-0" |
| YARDS - FRONT | 20'-0" | 14'-5" DIST |
| YARDS - SIDE FOR 1 | 6'-0" | APPROX. 5'-0" DIST |
| YARDS - SIDE TOTAL | 14'-0" | 6'-0" |
| YARDS - REAR | 25'-0" | 31'-8" |
| HEIGHT - STORIES | 2 1/2 | 2 1/2 |
| HEIGHT - FEET | 35'-0" | 29'-5" |
| FAR | .53 | .53 |

| | | |
|------|---|--|
| seal | project PROPOSED ADDITION FOR MR. GALLINELLI 1219 HENRY AVE MAMARONECK, NY | drawing number A2 |
| | Stephen Marchesani 5 Scott Circle Purchase, New York | drawing SITE PLAN & FOUNDATION PLAN date 10/5/17 scale 1/4"=1'-0" drawn by SM |



FIRST FLOOR PLAN

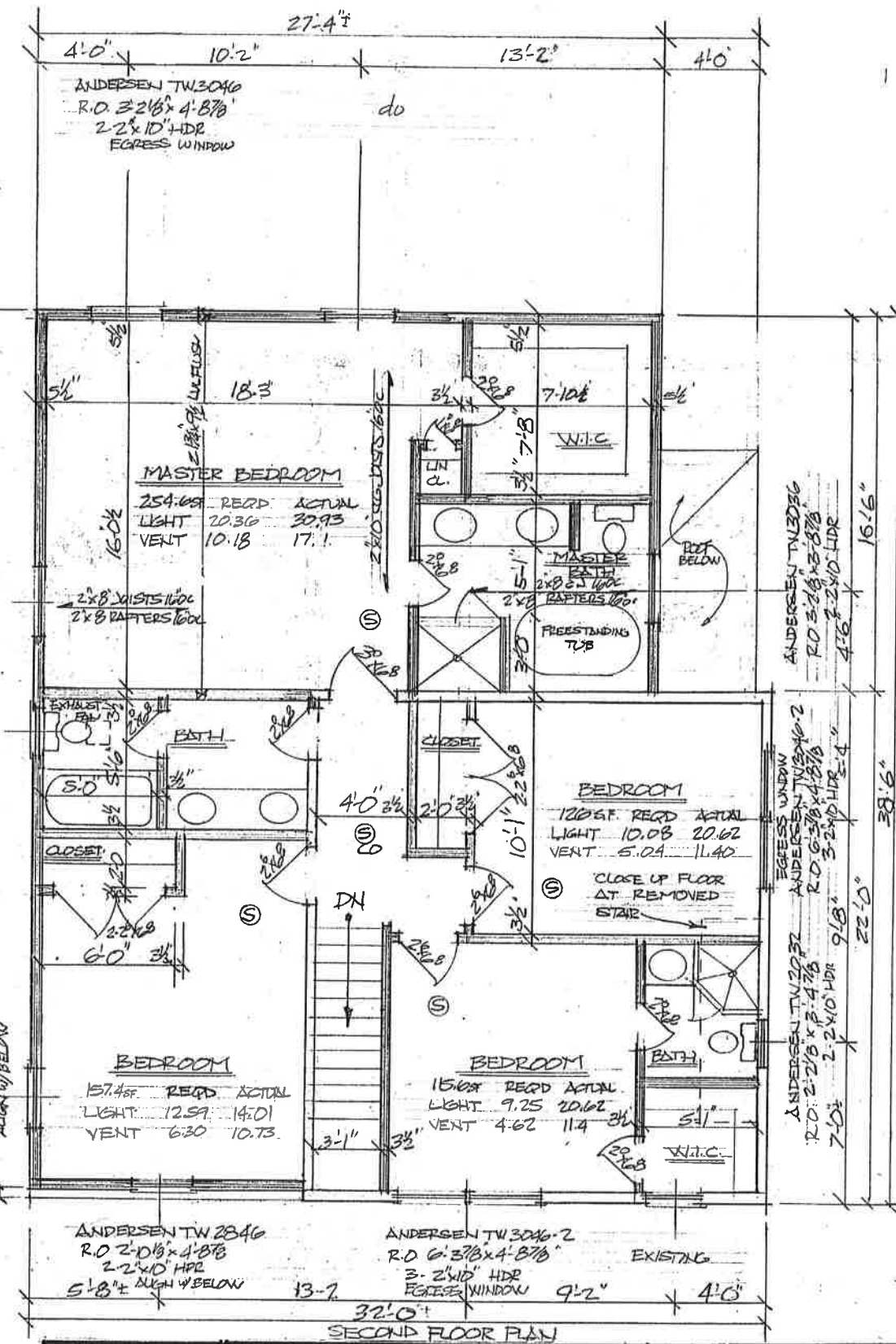
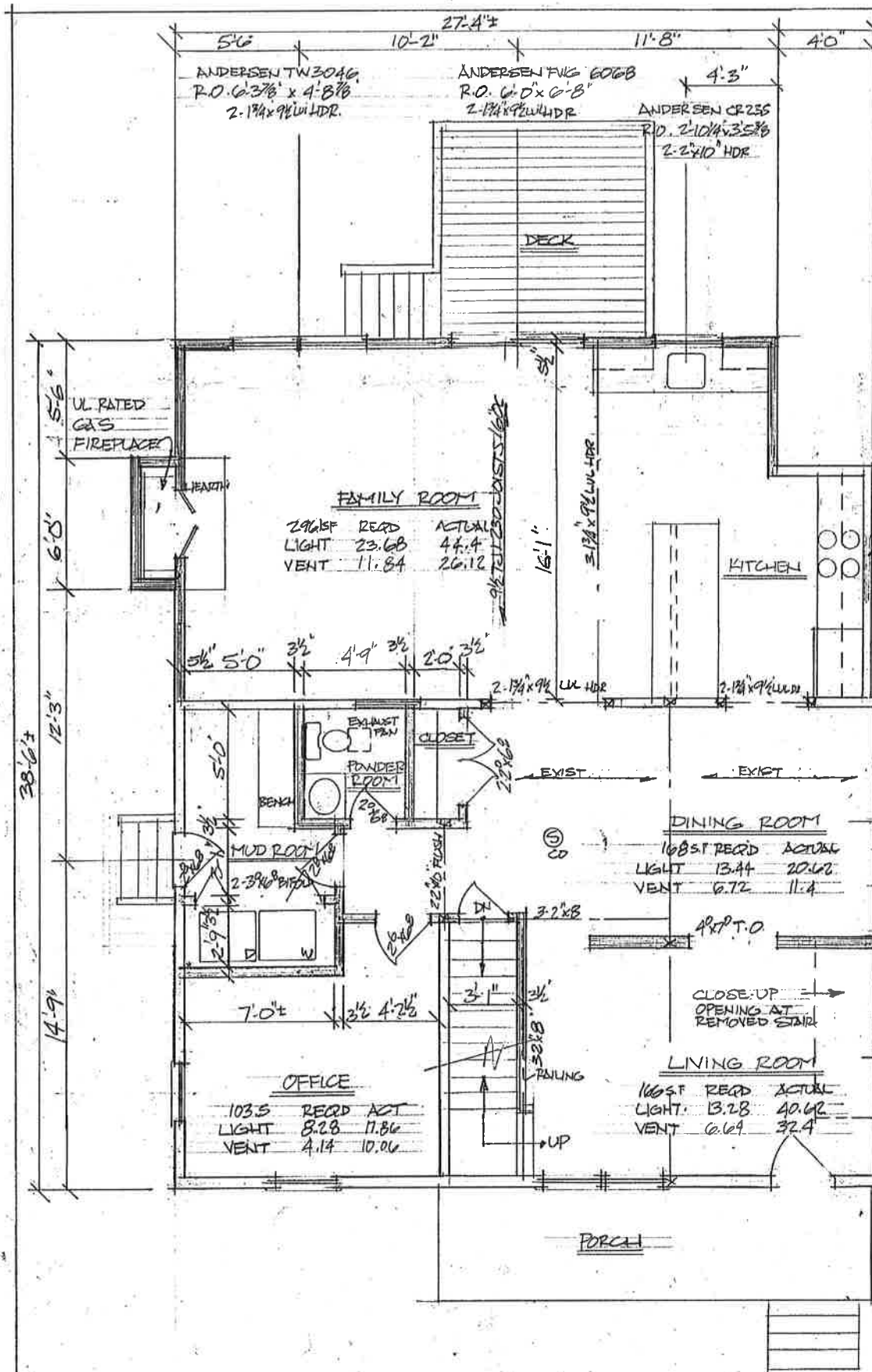


SECOND FLOOR PLAN

LEGEND

- ===== EXIST. PARTITION TO REMAIN
- EXIST. PARTITION TO BE REMOVED
- ===== NEW 2"x4" STUDS 16" O.C. (2"x6" AT EXT. WALLS)

| | | |
|------|--|---|
| seal | Project | drawing number |
| | PROPOSED ADDITION FOR MR. GALLINELLI 1219 HENRY AVE MAMARONECK, NY | A3 |
| | Stephen Marchesani 5 Scott Circle Purchase, New York | date 10/5/17 scale 1/4"=1'-0" drawn by SM |
| | drawing | DEMOLITION PLAN |

**search**

project

PROJECT
PROPOSED ADDITION FOR MR. GALINELLI
1219 HENRY AVE.
MAMARONECK, NY.

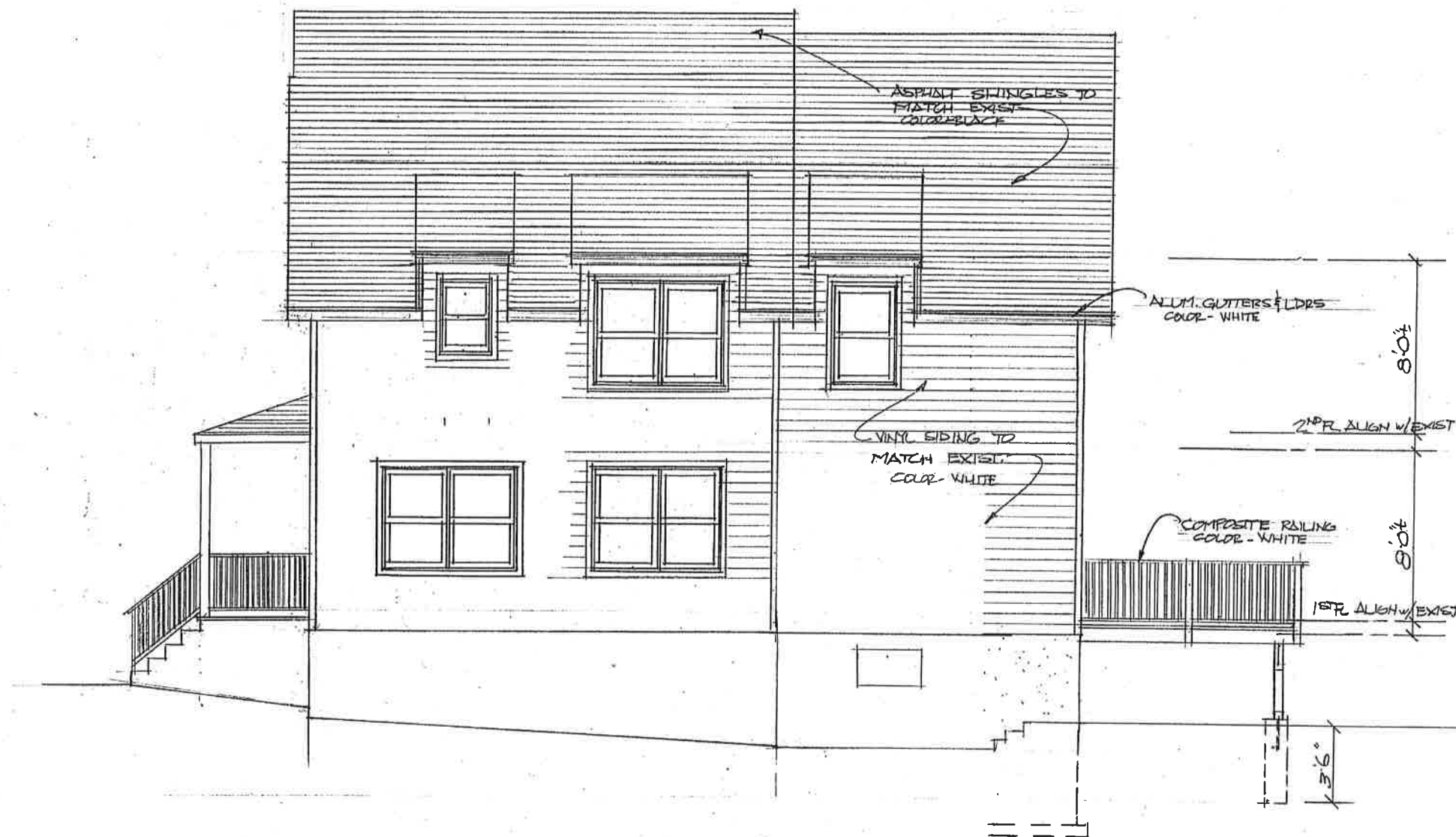
Stephen Marchesani
5 Scott Circle
Purchase, New York

drawing
1ST & 2ND FLOOR PLANS

drawing number

A4

date 10/5/17
scale 1/4" = 1'-0"
drawn by STM



RIGHT SIDE ELEVATION

| | | |
|-----------------------------|--|---|
| seal | project PROPOSED ADDITION FOR MR. GALLINELLI 1219 HENRY AVE. MAMARONECK, NY | drawing number A5 |
| | Stephen Marchesani 5 Scott Circle Purchase, New York | date 10/8/12 scale 1/4"=1'-0" drawn by SM |
| drawing ELEVATION | | |

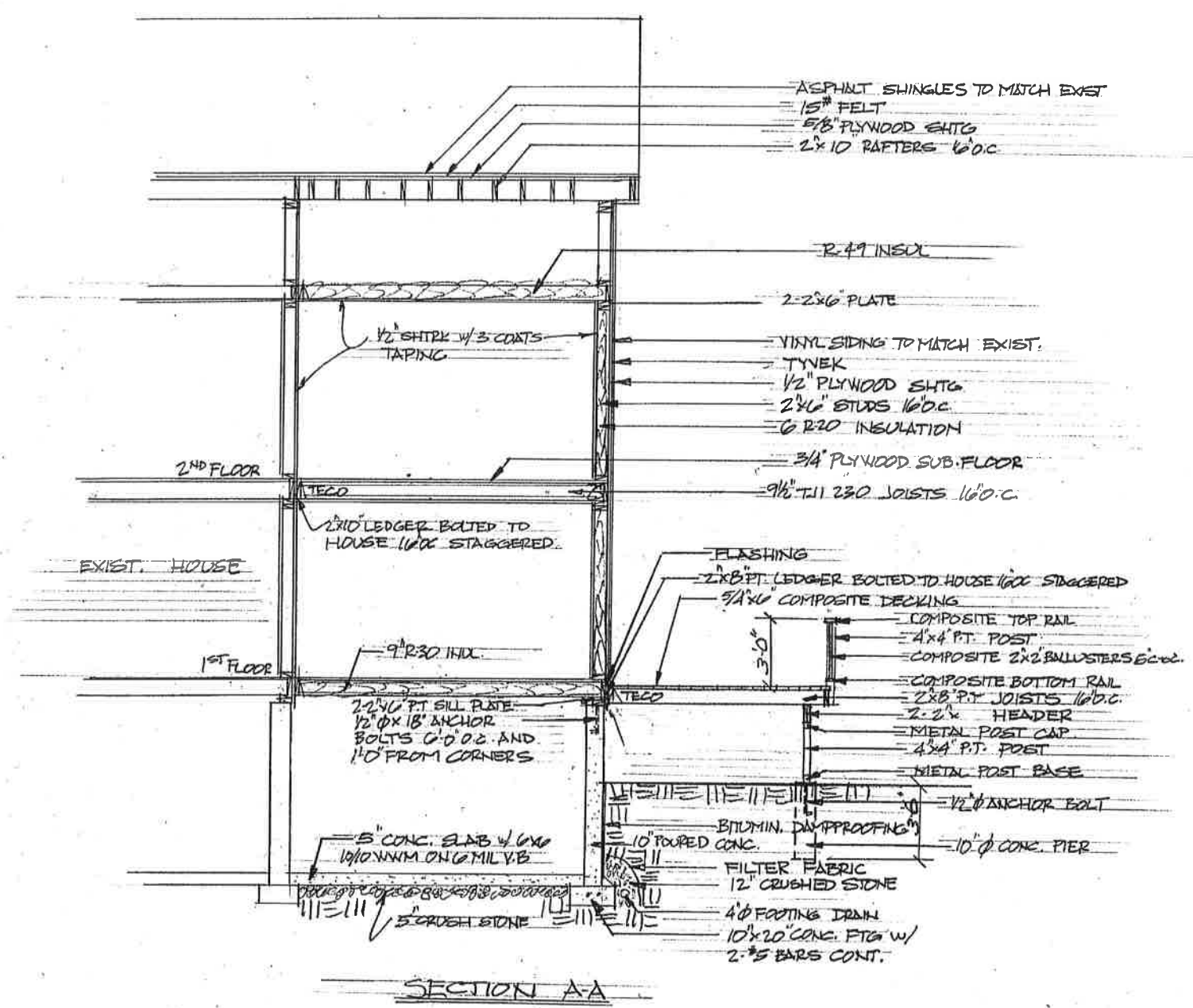


| | | |
|------|--|--|
| seal | project PROPOSED ADDITION FOR MR. GALLINELLI 1219 HENRY AVE MAMARONECK, NY. | drawing number A6 date 10/5/17 scale 1/4" = 1'-0" drawn by SM |
| | Stephen Marchesani 5 Scott Circle Purchase, New York | drawing ELEVATION |

- > Design Loads-Live Loads:
- Living Areas 40 LBS/FT²
 - Sleeping Rooms 30 LBS/FT²
 - Attic-No Storage 10 LBS/FT²
 - Attic-Storage 20 LBS/FT²
 - Stairs 40 LBS/FT²
 - Decks 40 LBS/FT²
 - Exterior Balconies 60 LBS/FT²
 - Roof 45 LBS/FT²
 - Guards and Handrails 200 LBS/FT
- > Two family dwellings to be separated by a one hour rating except when a fire sprinkler is installed then a one half hour rating is permitted.
- > Basements with habitable spaces and every sleeping room to have at least one open able emergency escape and rescue opening of minimum 5.7 percent net clear opening with a minimum opening height of 24 inches and opening with width of 20 inches net clear opening.
- > Stairs:
- Maximum Riser Height 8 1/4"
 - Minimum Tread Depth 9"
 - Minimum Head Room 6'-8" from tread nosing to sloped ceiling 36" above rail and 31 1/4" at rail height and below with rail on one side or 27" with hand rails on both sides.
- > Stair Handrails:
- 34" minimum and 38" maximum height at tread risers
 - Minimum 1 1/2" space from wall to rail
 - Minimum one hand rail at each stairway of two risers or more.
- > Guards:
- Required at surface more than 30" above floor
 - Height minimum of 36"
 - At open side of stairs minimum 34"
 - Intermediate rails or ornamental closures cannot allow the passage of a sphere 4" or more in diameter.
 - Triangular opening formed by risers treads and bottom rail of guard at open side of stair shall not allow a sphere of 6" to pass through.
- > Smoke Alarms:
- Each sleeping room to have a smoke alarm
 - Outside of each sleeping area in the immediate vicinity of the bedrooms to have a smoke alarm.
 - All smoke detectors to be interconnected.
 - All smoke detectors shall be listed and installed as per NFPA72.
 - All smoke detectors shall be hardwired and have battery backup.
- > Combustion air for fuel burning appliances shall have one opening 12" from top of enclosure and 12" from bottom. Each opening to have an area of one square inch per 1000 B.T.U. of the total input rating of all appliances but not less than 100 sq. in.
- > All plumbing work to conform to the requirements in the Residential Code of New York State.
- > All electric work to conform to the requirements in the Residential Code of New York State.

GENERAL NOTES

- 1) All work to be done according to 2015 IRC with the NYS 2016 Uniform Code Supplement and local code
- 2) All plumbing work to be done by a licensed plumber
- 3) All electric work to be done by a licensed electrician
- 4) Provide a code 53 confirmation number before starting any digging or excavation
- 5) File for a tree permit before removing any trees
- 6) File for a demolition permit before starting any demolition
- 7) Building setbacks and layouts to be computed by a licensed surveyor
- 8) Workmanship to be first class in all respects
- 9) Soil bearing capacity to be minimum 2 tons p.s.f.
- 10) Poured concrete to be minimum 3000p.s.i. strength
- 11) Poured concrete for exterior steps, porches, etc exposed to the weather and garage slabs to be minimum 3500p.s.i. strength
- 12) Stepped footings to be 1 vertical to 2 horizontal
- 13) Concrete block walls to have horizontal reinforcement 16" oc
- 14) Finish grades to be a minimum 8" below top of foundation wall and slope away from house
- 15) Any steel to be a minimum A36 grade
- 16) Steel I-joist columns to have 6"x6" plates top and bottom
- 17) All lumber to be minimum doug/fir minimum 1200p.s.i. fiber strength
- 18) All deck lumber to be pressure treated for platform, decking and railings to be as selected by owner
- 19) Double joists under parallel partitions
- 20) All posts for headers, beams, and girders to be taken down solid to the foundation and bearing posts
- 21) Provide flashing at wall/roof, valleys, chimneys, windows, doors and roof penetrations as required



INSULATION AND PENETRATION REQUIREMENTS BY COMPONENT

| CLIMATE ZONE | PERMEATION U-FACTOR | SKYLIGHT U-FACTOR | CEILING R-VALUE | WOOD FRAME WALL R-VALUE | MASS WALL R-VALUE | FLOOR R-VALUE | BASEMENT WALL R-VALUE | SLAB R-VALUE & DEPTH | CRAWL SPACE WALL R-VALUE |
|--------------|---------------------|-------------------|-----------------|-------------------------|-------------------|---------------|-----------------------|----------------------|--------------------------|
| REAR | 0.35 | 0.60 | 49 | 20 13/16 | 8/13 | 19 | 10/13 | 10/24 | 10/13 |
| PROVIDE | 0.34 | — | 49 | 20 | — | 30 | — | — | — |

| | | |
|------|---|--|
| Seal | Project PROPOSED ADDITION FOR MR. GALLINELLI 1219 HENRY AVE. MAMARONECK, NY. | drawing number A7 date 10/5/17 scale 1/4"=1'-0" drawn by SM |
| | Stephen Marchesani 5 Scott Circle Purchase, New York | |

Village of Mamaroneck, NY

Item Title: 408 Wagner

Item Summary: 408 WAGNER AVENUE - 2ND FLOOR ADDITION
APPLICANT: JACK PISCO - OWNER/CONTRACTOR

Fiscal Impact:

ATTACHMENTS:

| <u>Description</u> | <u>Upload Date</u> | <u>Type</u> |
|---------------------------|---------------------------|--------------------|
| 408 Wagner | 10/12/2017 | Presentation |

ALL GENERAL CONSTRUCTION, ELECTRICAL, PLUMBING AND HEATING AND AIR CONDITIONING WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE 2015 INTERNATIONAL RESIDENTIAL CODE, THE NEW YORK STATE 2016 UNIFORM CODE SUPPLEMENT, AND ALL CODES AND REGULATIONS OF THE VILLAGE OF MAMARONECK.

WORKMANSHIP SHALL BE FIRST CLASS IN EVERY RESPECT.

THE CONTRACTOR SHALL LAY OUT EACH STAGE OF THE WORK TO VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES, PRIOR TO BEGINNING SAID WORK.

THE CONTRACTOR SHALL PROTECT THE EXISTING STRUCTURE THROUGHOUT CONSTRUCTION AND SHALL NOTIFY THE ARCHITECT AND THE OWNER IMMEDIATELY UPON FINDING ANY STRUCTURAL DEFICIENCIES.

THE ARCHITECT IS NOT RESPONSIBLE FOR THE PROTECTION OR CORRECTION OF CONCEALED PLUMBING, ELECTRICAL, OR HVAC COMPONENTS ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL EXAMINE ADJACENT AREAS EXPOSED DURING AND SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT AND OWNER OF SUCH COMPONENTS TO REVIEW CORRECTION AND/OR PROTECTION PRIOR TO CLOSING SUCH AREAS.

MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER AND ACCEPTABLE CONSTRUCTION, INSTALLATION, OR OPERATION OF ANY PART OF THE WORK, SHALL BE INCLUDED IN THE WORK.

CONNECT LEADERS TO EXISTING DRAINAGE SYSTEM.

ALL FRAMING LUMBER TO BE DOUGLAS FIR #2.

DOUBLE JOISTS UNDER PARALLEL PARTITIONS.

DOUBLE END JOISTS DIRECTLY OVER SILLS RUNNING PARALLEL TO FLOOR SPANS.

PROVIDE 2-2 x 4 POSTS UNDER EACH END OF HEADERS OVER 5'-0".

ALL POSTS, BEAMS AND GIRDERS TO BE TAKEN TO SOLID FOUNDATION. PROVIDE SOLID BLOCKING BETWEEN JOISTS AS REQUIRED.

PROVIDE SIMPSON STRONG-TIE # LU28 FOR ALL 2 x 8 & 2 x 10 JOISTS. (OR EQUAL)

ALL WINDOWS TO BE ANDERSEN, WITH HIGH-PERFORMANCE GLAZING.

PROVIDE TEMPERED GLAZING AT REQUIRED LOCATIONS AS PER SECTION R308 & R308.4 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE.

DRYWALL-1/2" GYPSUM BOARD SHALL BE USED THROUGHOUT THE PROJECT AND FASTENED WITH DRYWALL SCREWS. DRYWALL SHALL BE TAPED WITH THREE COATS OF TAPING COMPOUND AND WHERE BUTT JOINTS ARE TAPED, IT SHALL BE FEATHERED OUT FOR TWO FEET.

PROVIDE FLASHING AT ALL ROOF/WALL JUNCTURES, ROOFING INTERSECTIONS, VALLEYS AS REQUIRED, CAPS AT FLAT/PITCHED ROOF INTERSECTIONS, CHIMNEYS, EXHAUST CAPS, GRILLES, STACKS, LEDGERS, WINDOW HEADS, DOORS AND ALL OTHER APPLICABLE AREAS AS PER GENERALLY ACCEPTED STANDARDS.

PROVIDE CAULKING AT ALL APPLICABLE AREAS AS PER GENERALLY ACCEPTED STANDARDS AND PRODUCT MANUFACTURER'S INSTALLATION SPECIFICATIONS.

REMOVE ALL DEBRIS DURING CONSTRUCTION AND AT THE COMPLETION OF THE PROJECT.

| CLIMATIC & GEOGRAPHIC DESIGN CRITERIA | | | | | | | | | |
|---------------------------------------|------------------|-------------------------|---------------------|------------------|-----------------|------------------|--------------------|----------------------------------|--|
| SUBJECT TO DAMAGE FROM | | | | | | | | | |
| GROUND-SNOW LOAD | WIND SPEED (MPH) | SEISMIC DESIGN CATEGORY | WEATHERING CONCRETE | FROST LINE DEPTH | TERMITE | DECAY | WRITER DESIGN TEMP | ICE SHIELD UNDERLAYMENT REQUIRED | FLOOD HAZARDS |
| 20 LBS. PSF | 100/110 | C | SEVERE | 42" | MODERATE/ HEAVY | SLIGHT/ MODERATE | 79°F | YES | NO MAP NO. 3616C/03035F PANEL NO. 03053F EFF. DATE: 9/28/07 |

FLOORS: 40# LL/15# DL
ATTIC: 20# LL/10# DL
(TO 4'-6" HEIGHT)
INTERIOR WALLS: 12.5#
30# LL/15# DL
(4'-6" & HIGHER)
EXTERIOR WALLS: 15#

- S.D. DENOTES HARDWIRE SMOKE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R314.3.1 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE AND SECTION A.802.1 OF THE 2016 NEW YORK STATE UNIFORM CODE SUPPLEMENT. LOCATIONS AS DENOTED ON PLANS (IN ALL SLEEPING ROOMS AND OUTSIDE ROOMS IN IMMEDIATE VICINITY OF SLEEPING ROOMS AND ON EACH LEVEL OF THE HOUSE)

- 0.C.O. DENOTES HARDWARE CARBON MONOXIDE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R315.2.2 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE AND SECTION AJ802.1 OF THE 2016 NEW YORK STATE UNIFORM CODE SUPPLEMENT. LOCATIONS AS DENOTED ON PLANS (ON EACH LEVEL WITH SLEEPING AREAS, IN THE VICINITY OF THE SLEEPING AREA AND ON ANY LEVEL THAT CONTAINS A CARBON MONOXIDE SOURCE).

| FLOOR AREA BREAKDOWN: | |
|--|--------------|
| FIRST FLOOR: | 1120 SQ. FT. |
| SECOND FLOOR: | 1120 SQ. FT. |
| ATTIC: | 149 SQ. FT. |
| CELLAR (HEIGHT OF EXPOSED EXTERIOR WALLS OVER 3'-0" ABOVE AVERAGE GRADE): | 0 SQ. FT. |
| TOTAL FLOOR AREA FOR F.A.R.: | 2389 SQ. FT. |
| MAX. FLOOR AREA FOR F.A.R. ALLOWED: | 2650 SQ. FT. |



INSULATION NOTES:
INSULATE AREAS OF EXTERIOR WALLS WHERE THE WALL CAVITY IS EXPOSED WITH FULL-DEPTH (MIN. R-13) FACED FIBERGLASS INSULATION. INSULATE AREAS OF CEILINGS WHERE THE FRAMING CAVITY IS EXPOSED WITH FULL-DEPTH (MIN. R-19) FACED FIBERGLASS INSULATION.

THESE PLANS COMPLY WITH SECTION R402 OF THE 2015 INTERNATIONAL ENERGY CODE AND THE 2016 SUPPLEMENT TO THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE AS REVISED AUGUST 2016

FREDERICK F. GRIPPI, AIA
MARK MUSTACATO, AIA

VILLAGE OF MAMARONECK
BUILDING DEPARTMENT

REVISIONS:

A-1

PROPOSED ADDITION

PROPOSED ADDITION
FOR MJJF LLC
408 WAGNER AVENUE

408 WAGNER AVENUE
SECTION: 154.35 BLOCK: 1 LOT: 54
VILLAGE OF MAMARONECK NEW YORK

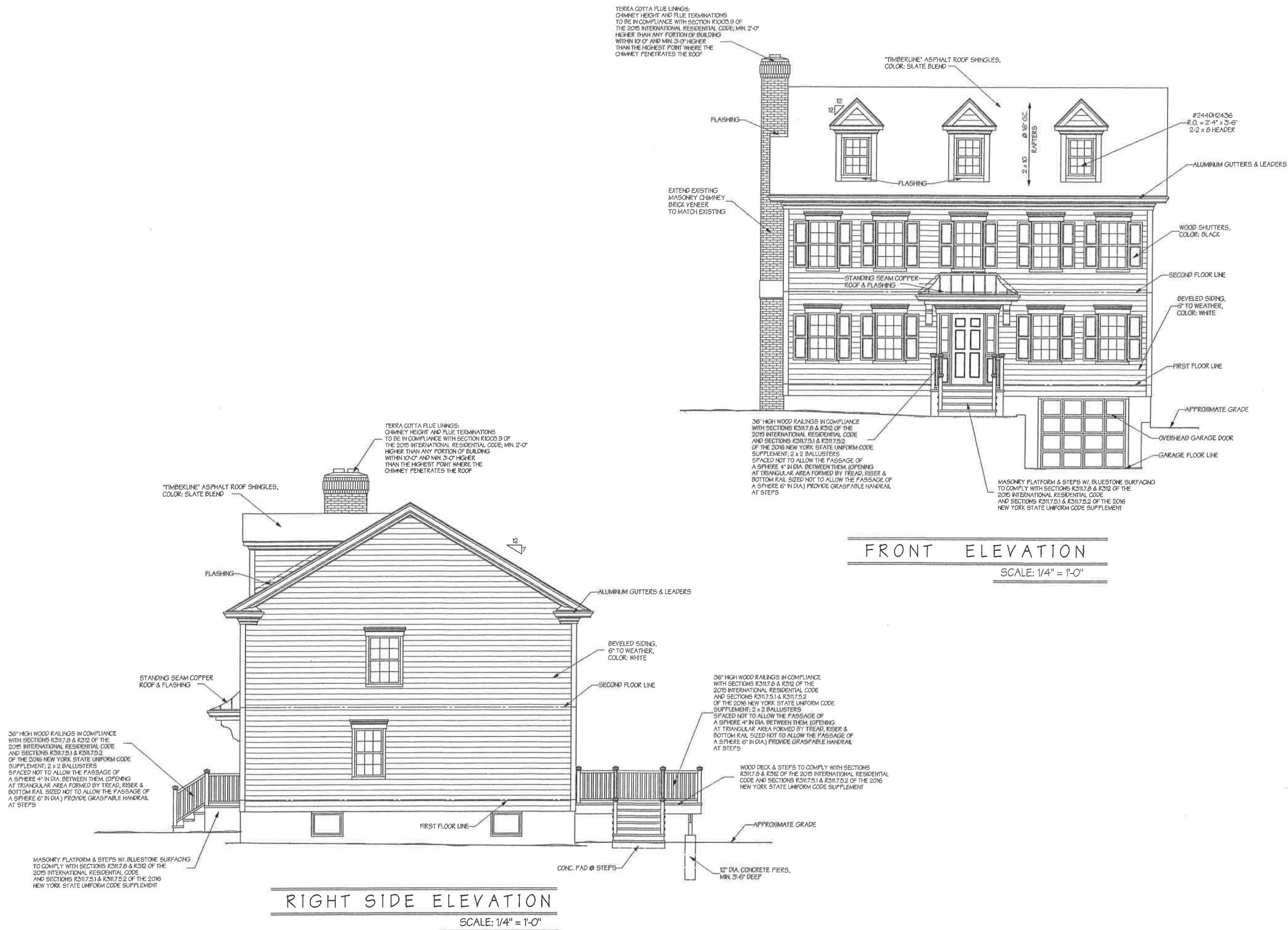
JOB #: 17-62

DATE: 10/4/17

**RICHAU
MUSTACATO
GRIPPI
ASSOCIATES**

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REVISIONS:

PROPOSED ADDITION
FOR MJJF LLC
408 WAGNER AVENUE
SECTION: 154.35 BLOCK: 1 LOT: 54
VILLAGE OF MAMARONECK, NEW YORK

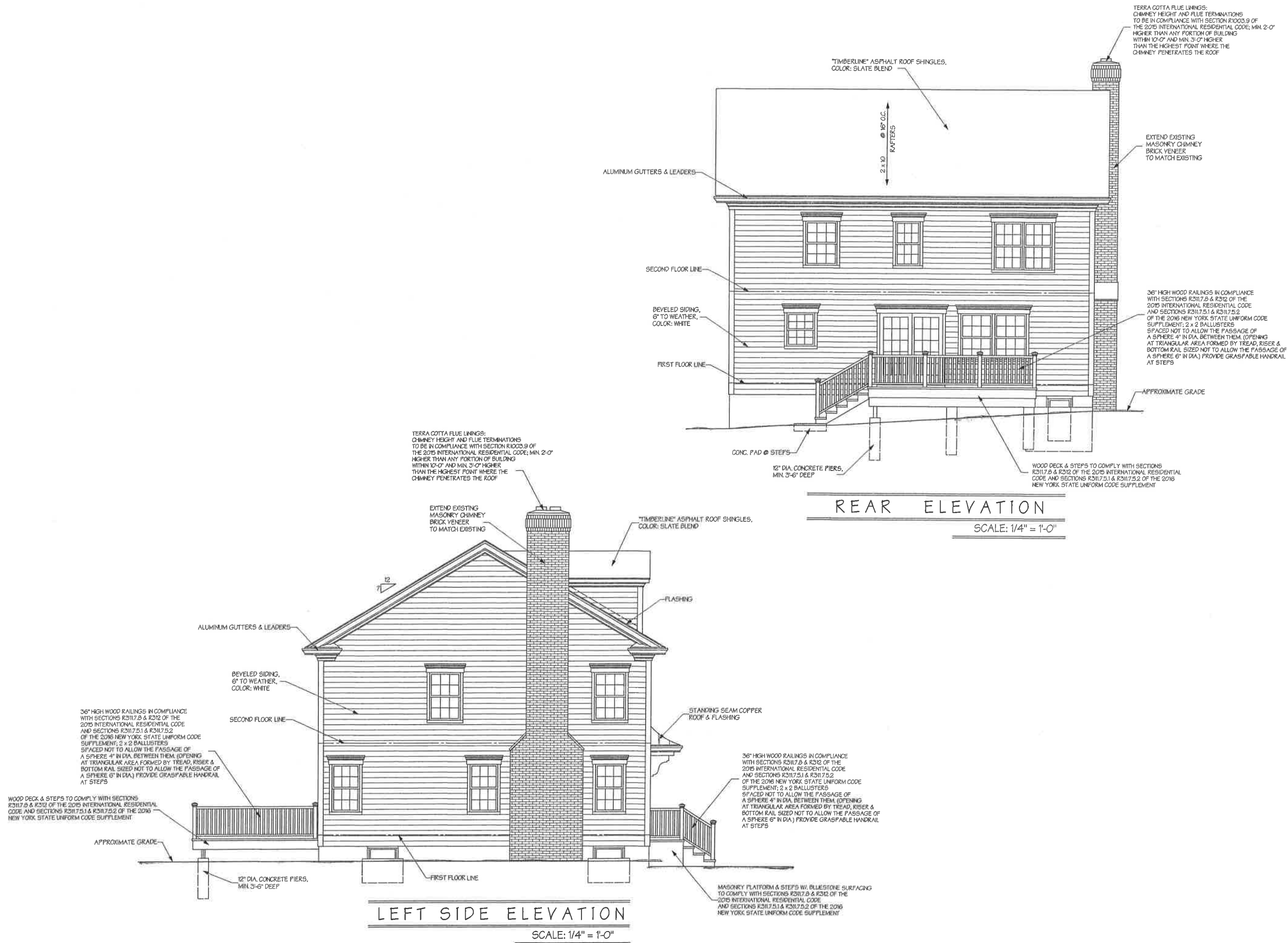
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JOB #: 17-62

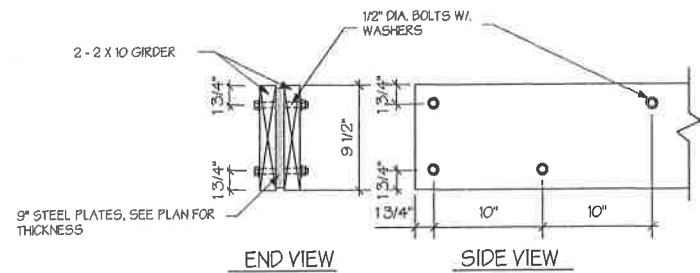
DATE: 10/4/17

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| | | | |
|--|--|---|--|
| REVISIONS: | | A-3 | |
| PROPOSED ADDITION FOR MJJF LLC 408 WAGNER AVENUE SECTION: 154.35 BLOCK: 1 LOT: 54 VILLAGE OF MAMARONECK, NEW YORK | | | |
| JOB #: 17-62 DATE: 10/4/17 | | | |
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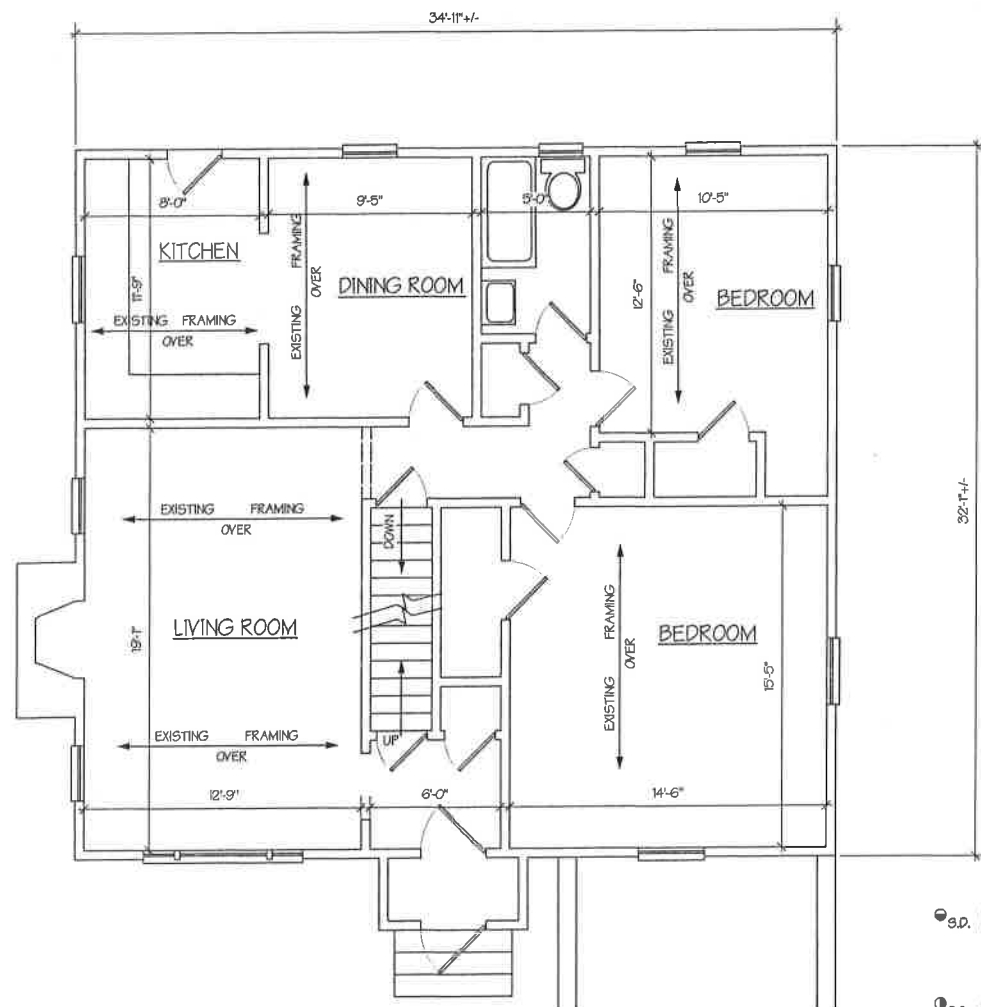


FLITCH BEAM DETAILS

SCALE: 1 1/2" = 1'-0"

| LIGHT AND VENTILATION CALCULATIONS | | | | | |
|------------------------------------|----------------------|---------------------|----------------|---------------------------|----------------------|
| ROOM NAME | FLOOR AREA (SQ. FT.) | LIGHT REQUIRED (8%) | LIGHT PROVIDED | VENTILATION REQUIRED (4%) | VENTILATION PROVIDED |
| KITCHEN/FAMILY R.M. | 465 | 37.20 SQ. FT. | 58.78 SQ. FT. | 18.16 SQ. FT. | 35.26 SQ. FT. |
| DINING ROOM | 178 | 14.24 SQ. FT. | 25.68 SQ. FT. | 7.12 SQ. FT. | 15.15 SQ. FT. |
| LIVING ROOM | 213 | 17.04 SQ. FT. | 34.24 SQ. FT. | 8.52 SQ. FT. | 20.20 SQ. FT. |
| | | | | | YES |

PROVIDE WINDOW FALL PROTECTION DEVICES ON ALL WINDOWS, WHICH LIMITS RAISING THE SASH TO A POINT NOT TO ALLOW THE PASSAGE OF A SPHERE 4" IN DIA. TO PASS THROUGH THE OPENING WHEN FIRST OPENED, WHERE THE TOP OF THE SILL IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND GREATER THAN 72" ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, IN COMPLIANCE WITH SECTION R312 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE.

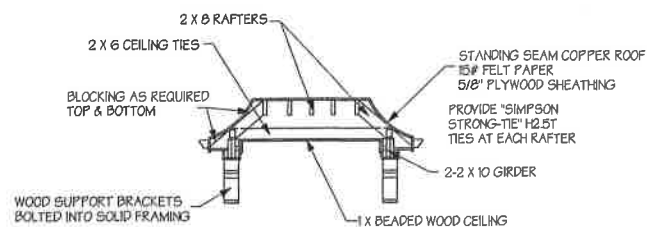


EXISTING FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

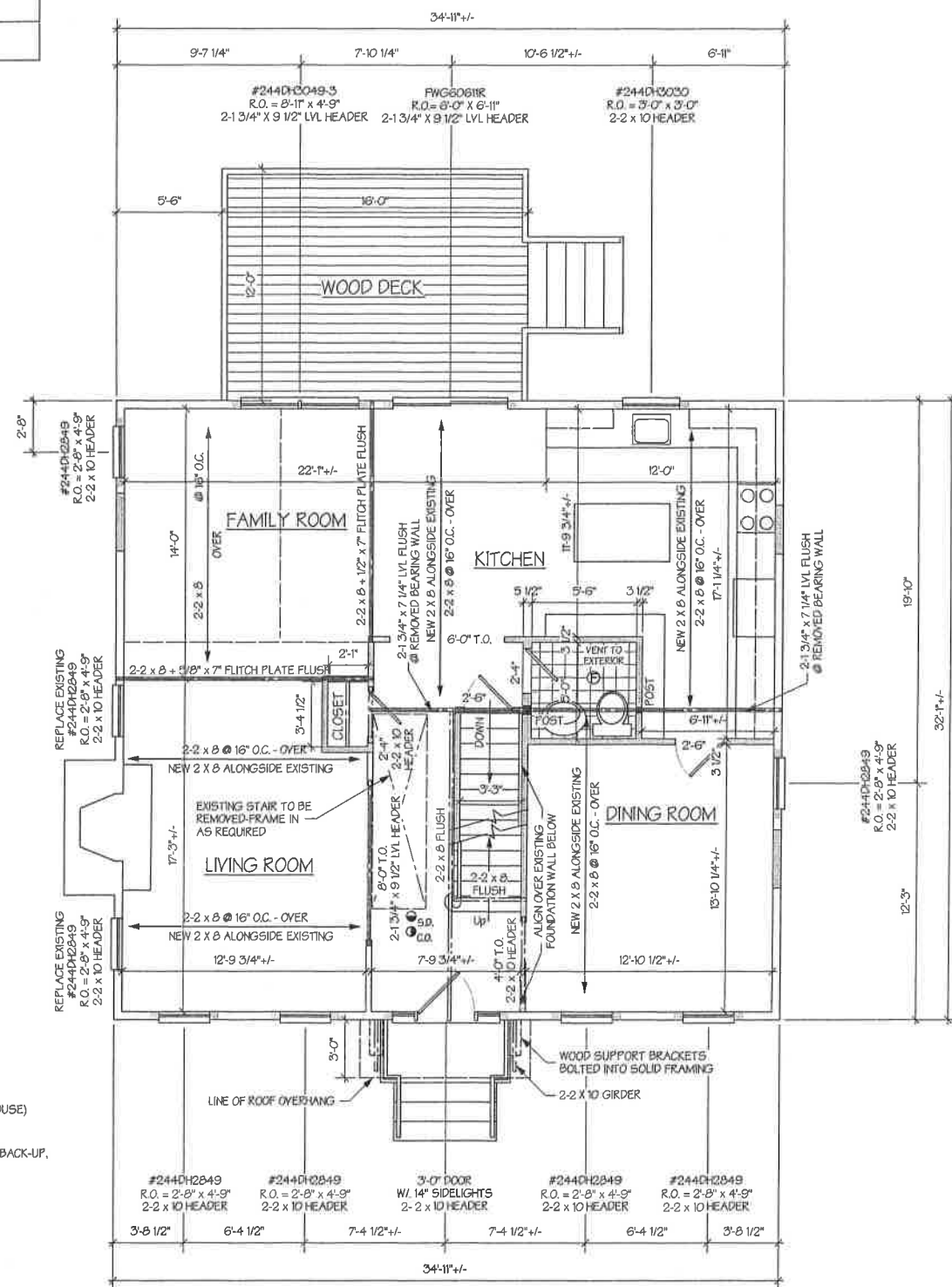
S.D. DENOTES HARDWIRE SMOKE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R314 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE. LOCATIONS AS DENOTED ON PLANS (IN ALL SLEEPING ROOMS AND OUTSIDE ROOMS IN IMMEDIATE VICINITY OF SLEEPING ROOMS AND ON EACH LEVEL OF THE HOUSE).

C.O. DENOTES HARDWIRE CARBON MONOXIDE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R315 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE. LOCATIONS AS DENOTED ON PLANS (ON EACH LEVEL WITH SLEEPING AREAS, WITHIN 15 FEET OF THE SLEEPING AREA AND ON ANY LEVEL THAT CONTAINS A CARBON MONOXIDE SOURCE).



SECTION @ ENTRY ROOF

SCALE: 1/4" = 1'-0"



PROPOSED FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

"PLUS OR MINUS" (+/-) DIMENSIONS ARE PROVIDED FOR REFERENCE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION LAYOUT.

REVISIONS:

PROPOSED ADDITION
FOR MJJF LLC

408 WAGNER AVENUE

SECTION: 154.35 BLOCK: 1 LOT: 54

VILLAGE OF MAMARONECK, NEW YORK

A-5

JOB #: 17-62

DATE: 10/4/17

RICHARD MUSTACATO
GRIPPI ASSOCIATES

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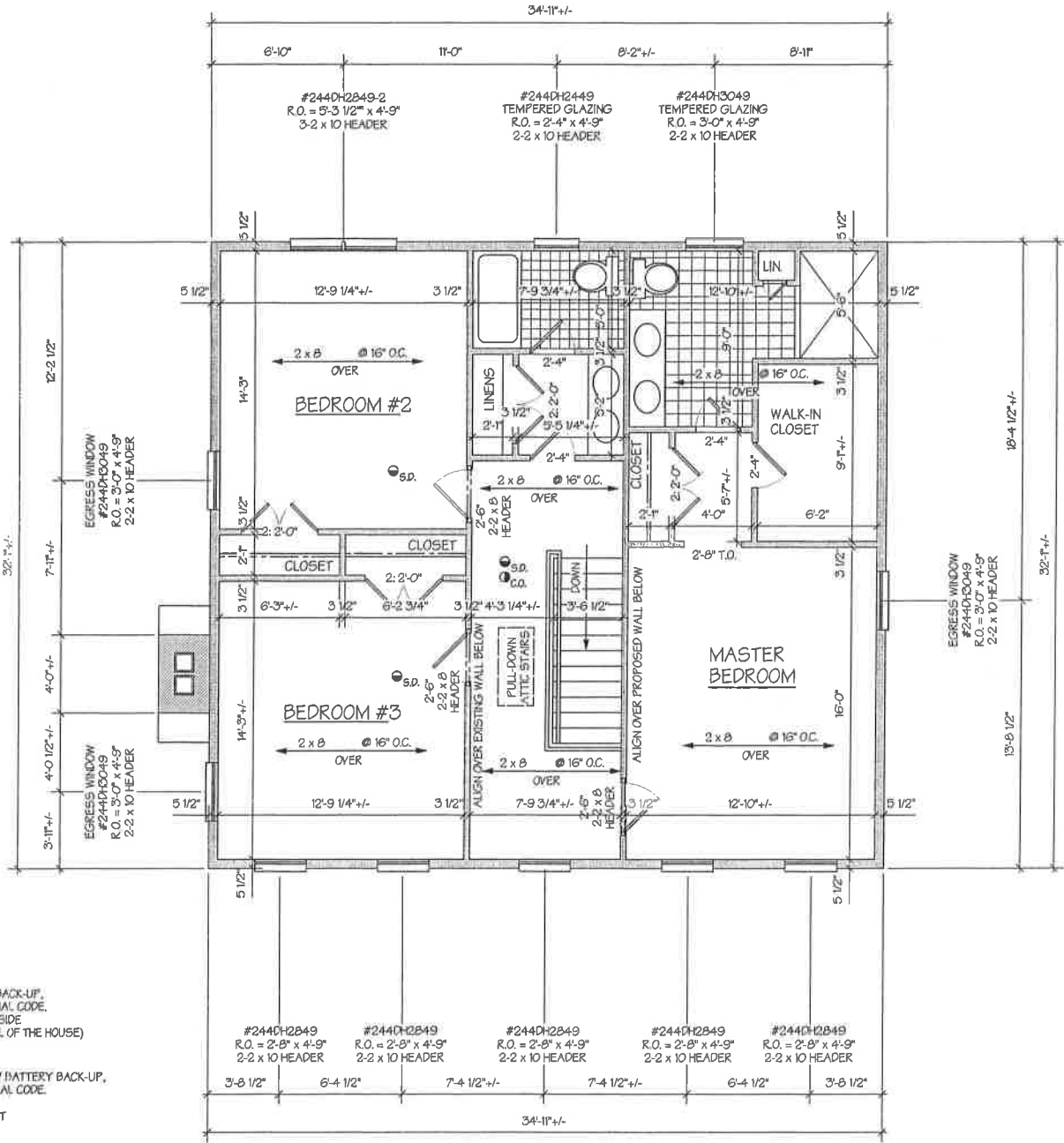
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| LIGHT AND VENTILATION CALCULATIONS | | | | | | |
|------------------------------------|----------------------|---------------------|----------------|---------------------------|----------------------|------------|
| ROOM NAME | FLOOR AREA (SQ. FT.) | LIGHT REQUIRED (8%) | LIGHT PROVIDED | VENTILATION REQUIRED (4%) | VENTILATION PROVIDED | COMPLIANCE |
| MASTER BEDROOM | 205 | 16.40 SQ. FT. | 27.03 SQ. FT. | 8.20 SQ. FT. | 15.86 SQ. FT. | YES |
| BEDROOM #2 | 182 | 14.56 SQ. FT. | 27.03 SQ. FT. | 7.28 SQ. FT. | 15.86 SQ. FT. | YES |
| BEDROOM #3 | 182 | 14.56 SQ. FT. | 27.03 SQ. FT. | 7.28 SQ. FT. | 15.86 SQ. FT. | YES |

PROVIDE WINDOW FALL PROTECTION DEVICES ON ALL WINDOWS, WHICH LIMITS RAISING THE SASH TO A POINT NOT TO ALLOW THE PASSAGE OF A SPHERE 4" IN DIA. TO PASS THROUGH THE OPENING WHEN FIRST OPENED, WHERE THE TOP OF THE SILL IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND GREATER THAN 72" ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, IN COMPLIANCE WITH SECTION R312 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE.

EGRESS WINDOW DIMENSIONS:
(PER REQUIREMENTS OF 2015 INTERNATIONAL RESIDENTIAL CODE SECTION R310)
ANDERSEN UNIT #244DH3049:
CLEAR OPENING DIMENSION = 5'7 1/2" SQ. FT.
CLEAR WIDTH DIMENSION = 32.56"
CLEAR HEIGHT DIMENSION = 25.45"



- S.D. DENOTES HARDWIRE SMOKE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R314 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE. LOCATIONS AS DENOTED ON PLANS (IN ALL SLEEPING ROOMS AND OUTSIDE ROOMS IN IMMEDIATE VICINITY OF SLEEPING ROOMS AND ON EACH LEVEL OF THE HOUSE)
- C.O. DENOTES HARDWIRE CARBON MONOXIDE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R315 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE. LOCATIONS AS DENOTED ON PLANS (ON EACH LEVEL WITH SLEEPING AREAS, WITHIN 15 FEET OF THE SLEEPING AREA AND ON ANY LEVEL THAT CONTAINS A CARBON MONOXIDE SOURCE).

PROPOSED SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

*PLUS OR MINUS (+/-) DIMENSIONS ARE PROVIDED FOR REFERENCE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION LAYOUT.

REVISIONS:

PROPOSED ADDITION
FOR MJJF LLC
408 WAGNER AVENUE
SECTION: 154.35 BLOCK: 1 LOT: 54
VILLAGE OF MAMARONECK, NEW YORK

JOB #: 17-62
DATE: 10/4/17

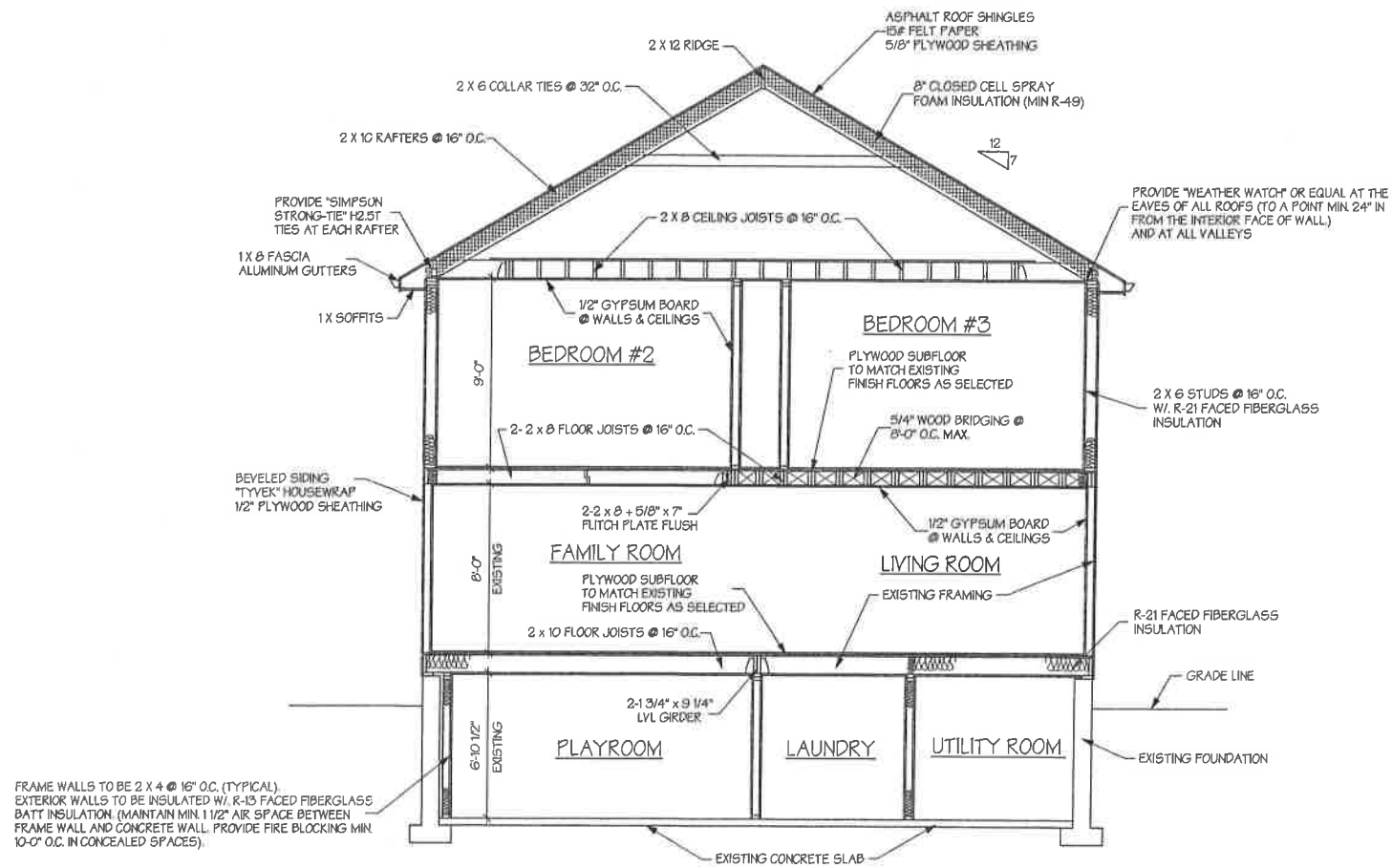
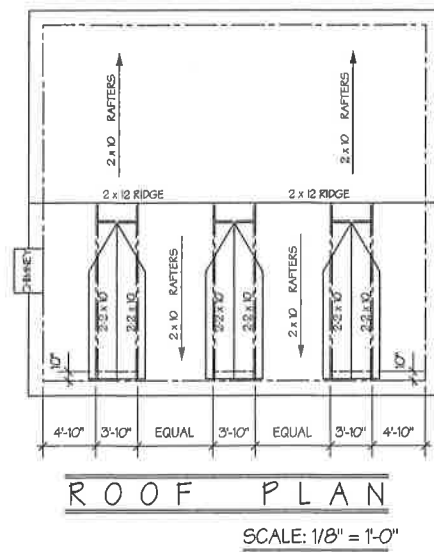
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A-6



FRAME WALLS TO BE 2 X 4 @ 16" O.C. (TYPICAL).
EXTERIOR WALLS TO BE INSULATED W/ R-13 FACED FIBERGLASS
BATT INSULATION (MAINTAIN MIN. 1 1/2" AIR SPACE BETWEEN
FRAME WALL AND CONCRETE WALL. PROVIDE FIRE BLOCKING MIN.
10'-0" O.C. IN CONCEALED SPACES).

INSULATION NOTES:
INSULATE AREAS OF EXTERIOR WALLS WHERE THE WALL CAVITY IS EXPOSED WITH FULL-DEPTH
(MIN. R-13) FACED FIBERGLASS INSULATION. INSULATE AREAS OF CEILINGS WHERE THE FRAMING
CAVITY IS EXPOSED WITH FULL-DEPTH (MIN. R-19) FACED FIBERGLASS INSULATION.

PROPOSED ADDITION
FOR MJJF LLC

408 WAGNER AVENUE
SECTION: 154.35 BLOCK: 1 LOT: 54
VILLAGE OF MAMARONECK, NEW YORK

JOB #: 17-62

DATE: 10/4/17

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REVISIONS:

A-7

Village of Mamaroneck, NY

Item Title: 312 Fifth St.

Item Summary: 312 FIFTH STREET - NEW HOUSE
APPLICANT: JACK PISCO - OWNER/CONTRACTOR

Fiscal Impact:

ATTACHMENTS:

| <u>Description</u> | <u>Upload Date</u> | <u>Type</u> |
|---------------------------|---------------------------|--------------------|
| 312 Fifth | 10/12/2017 | Presentation |

GENERAL NOTES:

ALL GENERAL CONSTRUCTION, ELECTRICAL, PLUMBING AND HEATING AND AIR CONDITIONING WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE 2015 INTERNATIONAL RESIDENTIAL CODE, THE NEW YORK STATE 2016 UNIFORM CODE SUPPLEMENT, AND ALL CODES AND REGULATIONS OF THE VILLAGE OF SCARSDALE.

WORKMANSHIP SHALL BE FIRST CLASS IN EVERY RESPECT.

THE CONTRACTOR SHALL OBTAIN ALL CONSTRUCTION PERMITS AND INSPECTIONS AND APPROVALS AS REQUIRED. PERMIT FEES ARE TO BE PAID BY THE OWNER.

THE CONTRACTOR SHALL LAY OUT EACH STAGE OF THE WORK TO VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES, PRIOR TO BEGINNING SAID WORK.

MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER AND ACCEPTABLE CONSTRUCTION, INSTALLATION, OR OPERATION OF ANY PART OF THE WORK, SHALL BE INCLUDED IN THE WORK.

BUILDING SETBACKS ARE TO BE COMPUTED BY A STATE OF NEW YORK LICENSED SURVEYOR TO VERIFY CODE CONFORMANCE PRIOR TO BEGINNING ANY WORK. THE ARCHITECT HAS NO RESPONSIBILITY FOR THE ACCURACY OR CORRECTNESS OF SETBACKS.

MIN. SOIL BEARING CAPACITY: 2 TONS P.S.F.; IN COMPLIANCE WITH SECTION 401 AND TABLE 401.4.1 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE.

MINIMUM COMPRESSIVE STRENGTHS OF CONCRETE USED ARE TO BE IN COMPLIANCE WITH TABLE 402.2 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE AS FOLLOWS:
BASEMENT WALLS, FOUNDATION WALLS, FOOTINGS, INTERIOR SLABS ON GRADE (OTHER THAN GARAGE FLOOR SLAB), EXTERIOR AND OTHER WALLS EXPOSED TO THE WEATHER: 3000 PSI
PORCHES, AND STEPS EXPOSED TO THE WEATHER, AND GARAGE FLOOR SLAB: 3500 PSI

ALL FOOTINGS MIN. 3'-6" BELOW GRADE OR TO SOLID ROCK.

STEP FOOTINGS TO BE 1 VERTICAL ON 2 HORIZONTAL.

MIN. 8" BETWEEN FINISH GRADE AND TOP OF FOUNDATION WALL.

FINISH GRADES TO SLOPE AWAY FROM BUILDING FOUNDATION.

DRIVEWAY TO BE ASPHALT SURFACED.

ALL STEEL TO BE A-36 GRADE.

PROVIDE TOP & BOTTOM PLATES AT ALL Y COLUMNS.

PROVIDE WALL BRACING IN ACCORDANCE WITH SECTION R602.10 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE.

ALL FRAMING LUMBER TO BE DOUGLAS FIR #2 (F.B. 1050). PRE-ENGINEERED LUMBER TO BE BY TRUS-JOIST MANUFACTURER, INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.

DOUBLE JOISTS UNDER PARALLEL PARTITIONS.

DOUBLE END JOISTS DIRECTLY OVER SILLS RUNNING PARALLEL TO FLOOR SPANS.

PROVIDE 5/4" WOOD BRIDGING MAXIMUM 8 FT. O.C. IN FLOORS FRAMED WITH DIMENSIONAL LUMBER. BRACING AT TJ FLOOR JOISTS AS PER MANUFACTURER'S SPECIFICATIONS.

PROVIDE MIN. 2-2X4 POSTS UNDER EACH END OF HEADERS 5'-0" OR LONGER.

PROVIDE MIN. 2-2X10 HEADERS OVER OPENINGS IN BEARING WALLS 5'-0" OR LONGER.

ALL POSTS, BEAMS AND GIRDERS TO BE TAKEN TO SOLID FOUNDATION.

STAIR TREADS: 9 1/2" + NOSING/RISERS: 7 3/4" MAX.

ALL WINDOWS AND GLASS DOORS TO BE ANDERSEN, WITH HIGH-PERFORMANCE LOW-E4 SUNSMART GLAZING.

PROVIDE TEMPERED GLAZING AT REQUIRED LOCATIONS AS PER SECTION R308 & R308.4 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE.

3/4 HR. RATED DOOR AT GARAGE (SELF-CLOSING).

KITCHEN COOKTOP TO HAVE 150 CFM EXHAUST FAN.

DRYWALL 1/2" AND 5/8" GYPSUM BOARD SHALL BE USED THROUGHOUT THE PROJECT AND FASTENED WITH DRYWALL SCREWS. DRYWALL SHALL BE TAPED WITH THREE COATS OF TAPING COMPOUND AND WHERE BUTT JOINTS ARE TAPED, IT SHALL BE FEATHERED OUT FOR TWO FEET.

F.A.I. DENOTES FRESH AIR INTAKE AT FIREPLACES.

ALL FRAMING LUMBER AT DECK TO BE PRESSURE TREATED. DECKING AND RAILING AS SELECTED.

PROVIDE METAL ANCHORS AT CONNECTION OF GIRDERS TO CONCRETE PIERS AT DECK. CONNECTORS TO BE APPROVED FOR USE WITH ACP PRESSURE TREATED LUMBER.

PROVIDE FLASHING AT ALL ROOF/WALL JUNCTURES, ROOFING INTERSECTIONS, VALLEYS AS REQUIRED, CAPS AT FLAT/PITCHED ROOF INTERSECTIONS, CHIMNEYS, EXHAUST CAPS, GRILLES, STACKS, LEDGERS, WINDOW HEADS, DOORS AND ALL OTHER APPLICABLE AREAS AS PER GENERALLY ACCEPTED STANDARDS.

PROVIDE CAULKING AT ALL APPLICABLE AREAS AS PER GENERALLY ACCEPTED STANDARDS AND PRODUCT MANUFACTURER'S INSTALLATION SPECIFICATIONS.

A MINIMUM OF 75% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS, PER SECTION 404.1 OF THE 2015 INTERNATIONAL ENERGY CODE.

REMOVE ALL DEBRIS DURING CONSTRUCTION AND AT THE COMPLETION OF THE PROJECT.

3.D. DENOTES HARDWIRE SMOKE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R314 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE. LOCATIONS AS DENOTED ON PLANS (IN ALL SLEEPING ROOMS AND OUTSIDE ROOMS IN IMMEDIATE VICINITY OF SLEEPING ROOMS AND ON EACH LEVEL OF THE HOUSE)

3.C.O. DENOTES HARDWIRE CARBON MONOXIDE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R315 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE. LOCATIONS AS DENOTED ON PLANS (ON EACH LEVEL WITH SLEEPING AREAS, WITHIN 15 FEET OF THE SLEEPING AREA AND ON ANY LEVEL THAT CONTAINS A CARBON MONOXIDE SOURCE).

| ZONING DATA: | | |
|----------------------------------|------------|---------------------------|
| ZONE DISTRICT: R-5 | REQUIRED | PROPOSED |
| LOT AREA (SQ. FT.) | 5000 MIN. | 5000 |
| FLOOR AREA RATIO | 0.53 MAX. | 528 |
| LOT COVERAGE | 35% MAX. | 28.9% |
| LOT WIDTH (FT.) | 50 MIN. | 50 |
| LOT DEPTH (FT.) | 100 MIN. | 100 |
| FRONT YARD (FT.) | 20 MIN. | 20.17 |
| SIDE YARD (FT.), ONE SIDE | 6 MIN. | 7.17 |
| SIDE YARD (FT.), TOTAL-TWO SIDES | 14 MIN. | 16.67 |
| REAR YARD (FT.) | 25 MIN. | 35.83 HOUSE 25.33 DECK |
| BUILDING HEIGHT (FT.) | 35 MAX. | 25 |
| BUILDING HEIGHT (STORIES) | 2 1/2 MAX. | 2 |

FLOOR AREA BREAKDOWN:

| | |
|---|--------------|
| FIRST FLOOR: | 1026 SQ. FT. |
| SECOND FLOOR: | 1256 SQ. FT. |
| STAIR- 34 x 15: | 51 SQ. FT. |
| Total LIVING AREA: | 2330 SQ. FT. |
| GARAGE: | 249 SQ. FT. |
| ATTIC: | 0 SQ. FT. |
| CELLAR (HEIGHT OF EXPOSED EXTERIOR WALLS OVER 3'-0" ABOVE AVERAGE GRADE): | 0 SQ. FT. |
| TOTAL FLOOR AREA FOR F.A.R.: | 2642 SQ. FT. |
| MAX. FLOOR AREA FOR F.A.R. ALLOWED: | 2650 SQ. FT. |

| INSULATION & FENESTRATION REQUIREMENTS BY COMPONENT | | | | | | | | | | |
|---|-----------------------|-------------------|--------------------------|-----------------|-------------------------|-------------------|---------------|------------------------|----------------------|--------------------------|
| CLIMATE ZONE | FENESTRATION U-FACTOR | SKYLIGHT U-FACTOR | GLAZED FENESTRATION SHGC | CEILING R-VALUE | WOOD FRAME WALL R-VALUE | MASS WALL R-VALUE | FLOOR R-VALUE | CASHEMENT WALL R-VALUE | SLAB R-VALUE & DEPTH | CRAWL SPACE WALL R-VALUE |
| 4 REQUIRED | 0.25 | 0.55 | 0.40 | 49 | 20 | 8/13 | 19 | 10/13 | 10, 2 FT. | 10/13 |
| PROVIDED | 0.32 | NA | 0.23 | 49 | 21 | NA | 31 | 13 | NA | NA |
| COMPLIANCE | YES | NA | YES | YES | YES | NA | YES | YES | NA | NA |

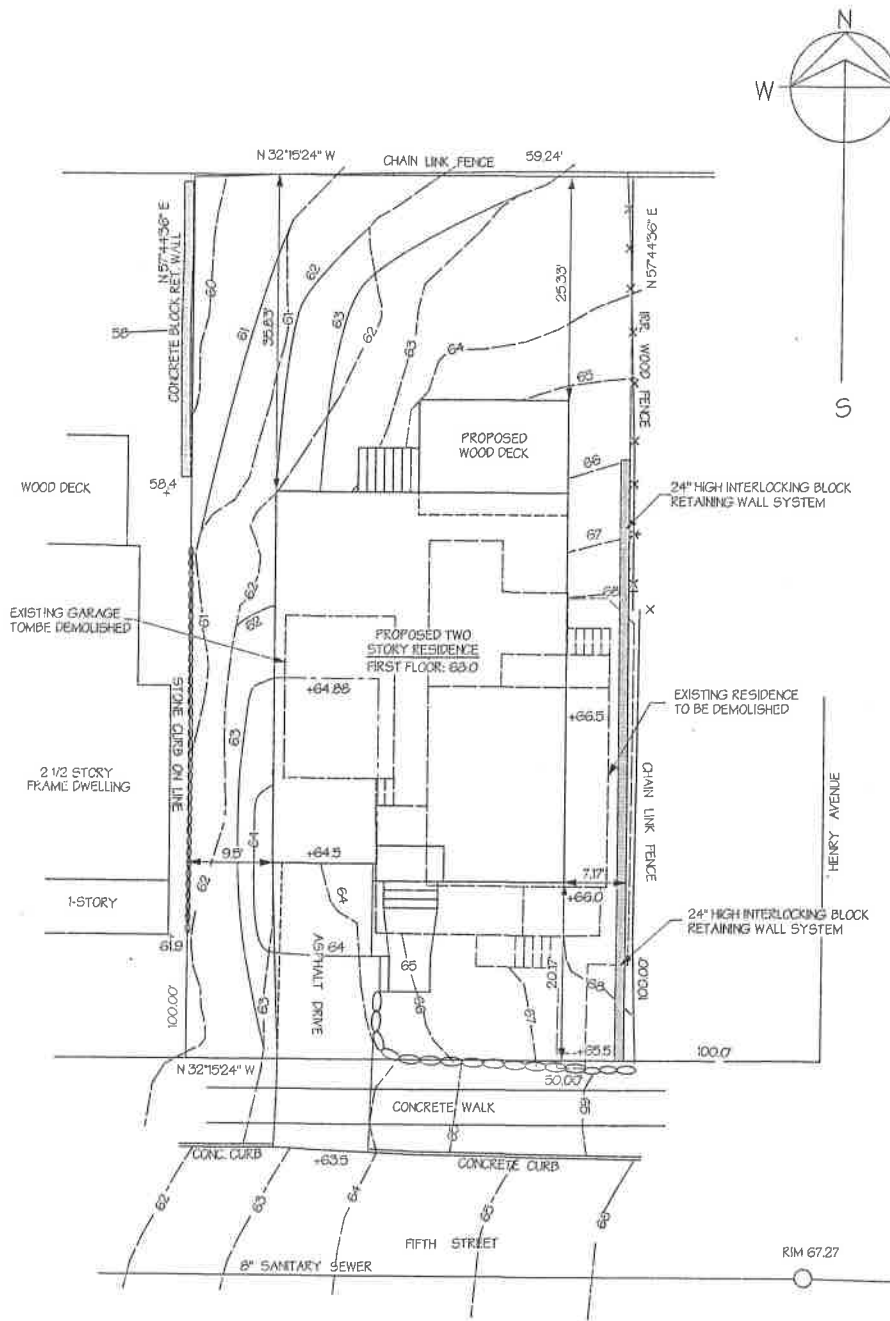
| CLIMATIC & GEOGRAPHIC DESIGN CRITERIA | | | | | | | | | |
|---------------------------------------|------------------|-------------------------|---------------------|------------------|----------------|-----------------|-------------------|----------------------------------|---|
| SUBJECT TO DAMAGE FROM: | | | | | | | | | |
| GROUND-SNOW LOAD | WIND SPEED (MPH) | SEISMIC DESIGN CATEGORY | WEATHERING CONCRETE | FROST LINE DEPTH | TERMITES | DECAY | WIND-BURNED TEMP. | ICE-SHEILD UNDERLAYMENT REQUIRED | FLOOD HAZARDS |
| 20 LBS. PSF | 100/110 | C | SEVERE | 42" | MODERATE/HEAVY | SLIGHT/MODERATE | 79°F | YES | NO MAP NO. 36119C0353F PANEL NO. 0353F EFF. DATE 9/25/07 |

DESIGN LOADS USED TO SAFELY SUPPORT ALL LOADS INCLUDING: DEAD LOADS, LIVE LOADS, ROOF LOADS, FLOOR LOADS, SNOW LOADS, WIND LOADS AND SEISMIC LOADS, ARE TO BE IN COMPLIANCE WITH SECTION R301.1 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE AND TABLE R301.2(1) AND FIGURE R301.2(5) OF THE 2016 NEW YORK STATE UNIFORM CODE SUPPLEMENT AS FOLLOWS:

DESIGN LOADS (PER SQ. FT.):

| | |
|-----------------------|---|
| FLOORS: 40# LL/15# DL | ATTIC: 20# LL/10# DL (TO 4'-6" HEIGHT) |
| INTERIOR WALLS: 12.5# | 30# LL/15# DL (4'-6" & HIGHER) |
| EXTERIOR WALLS: 15# | |

PROVIDE WINDOW FALL PROTECTION DEVICES ON WINDOWS, WHICH LIMITS RAISING THE SASH TO A POINT NOT TO ALLOW THE PASSAGE OF A 9" SPHERE 4" IN DIA. TO PASS THROUGH THE OPENING WHEN FIRST OPENED, WHERE THE TOP OF THE SILL IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND GREATER THAN 72" ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, IN COMPLIANCE WITH SECTION R312 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE



SITE PLAN

SCALE: 1" = 10'-0"

THESE PLANS COMPLY WITH SECTION R402 OF THE 2015 INTERNATIONAL ENERGY CODE AND THE 2016 SUPPLEMENT TO THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE AS REVISED AUGUST 2016

FREDERICK F. GRIPPI, AIA
MARK MUSTACATO, AIA

REVISIONS:

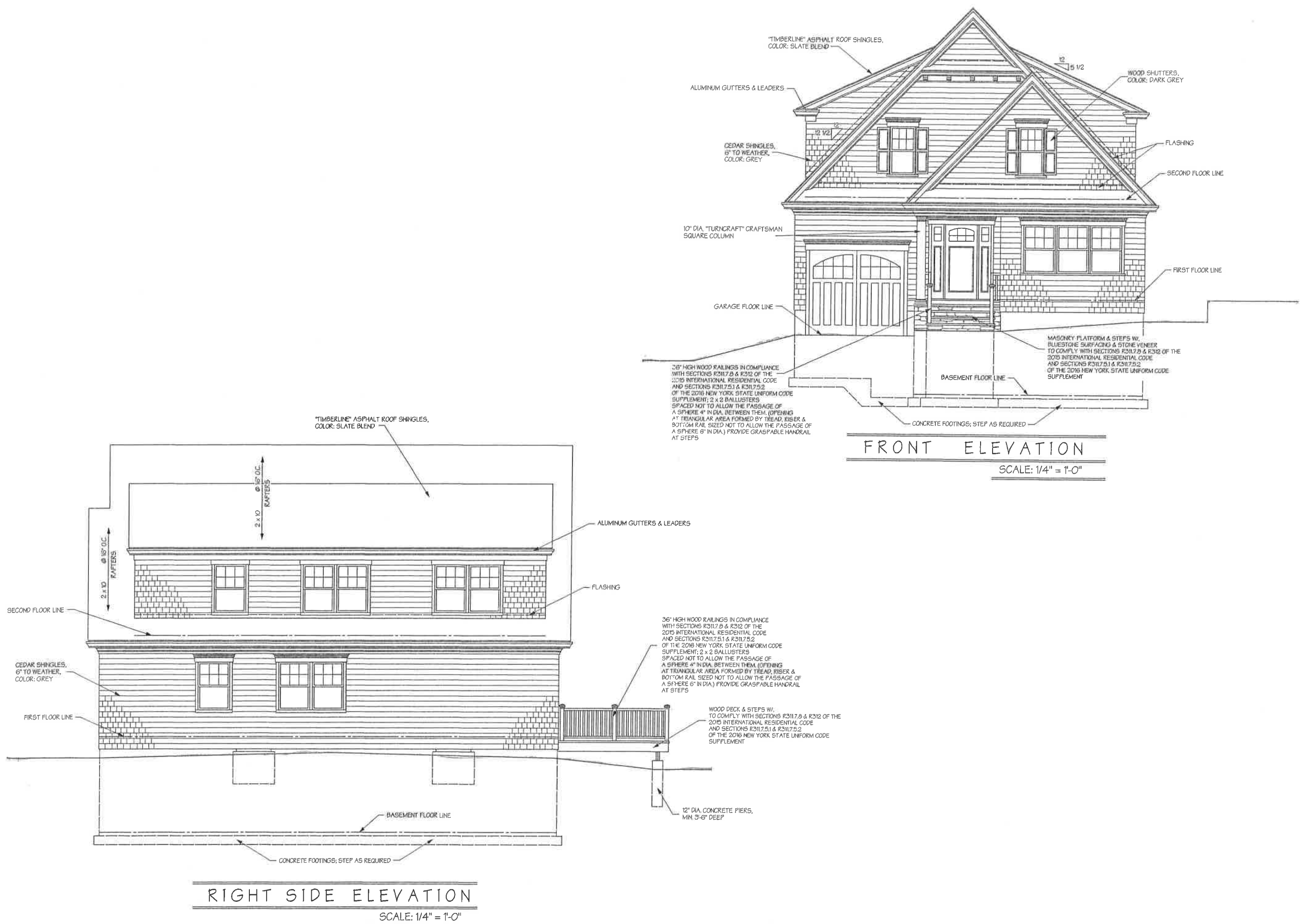
PROPOSED RESIDENCE
FOR MR. K. O'SHEA
312 FIFTH STREET
SECTION: 154.28 BLOCK: 1 LOT: 14
VILLAGE OF MAMARONECK, NEW YORK


JOB #:

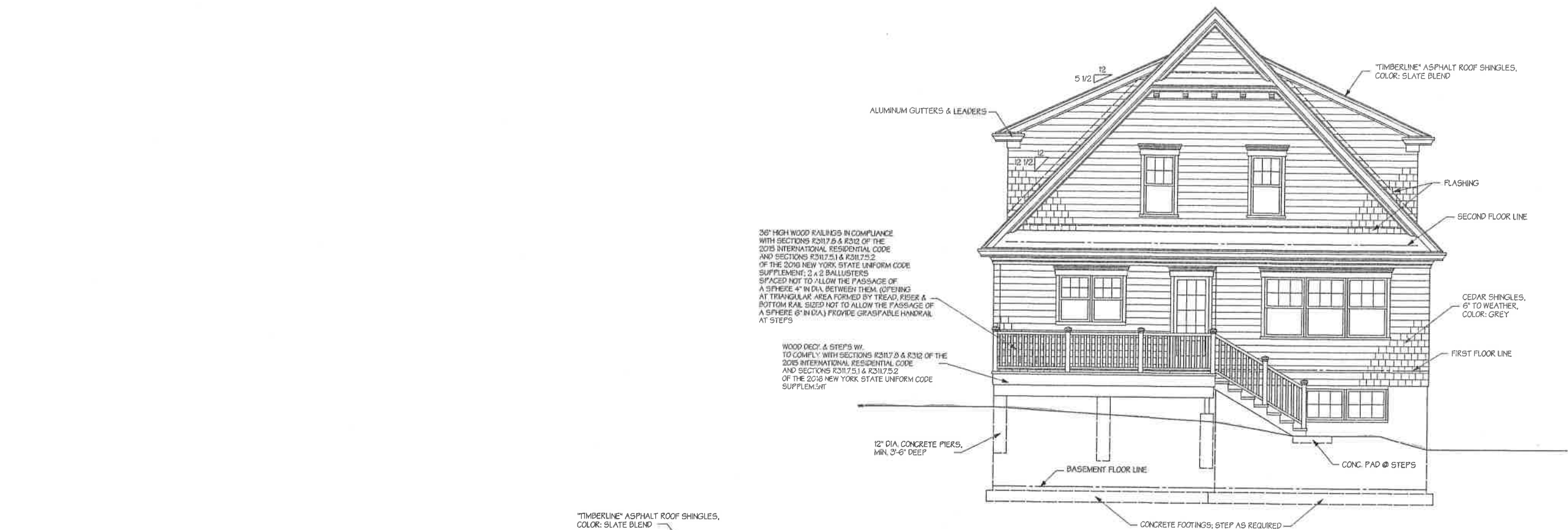
DATE: 10/10/17

RICHAU MUSTACATO GRIPPI ASSOCIATES
350 Theodore Fremd Ave.
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www.rmgarchitects.com 914-698-5589

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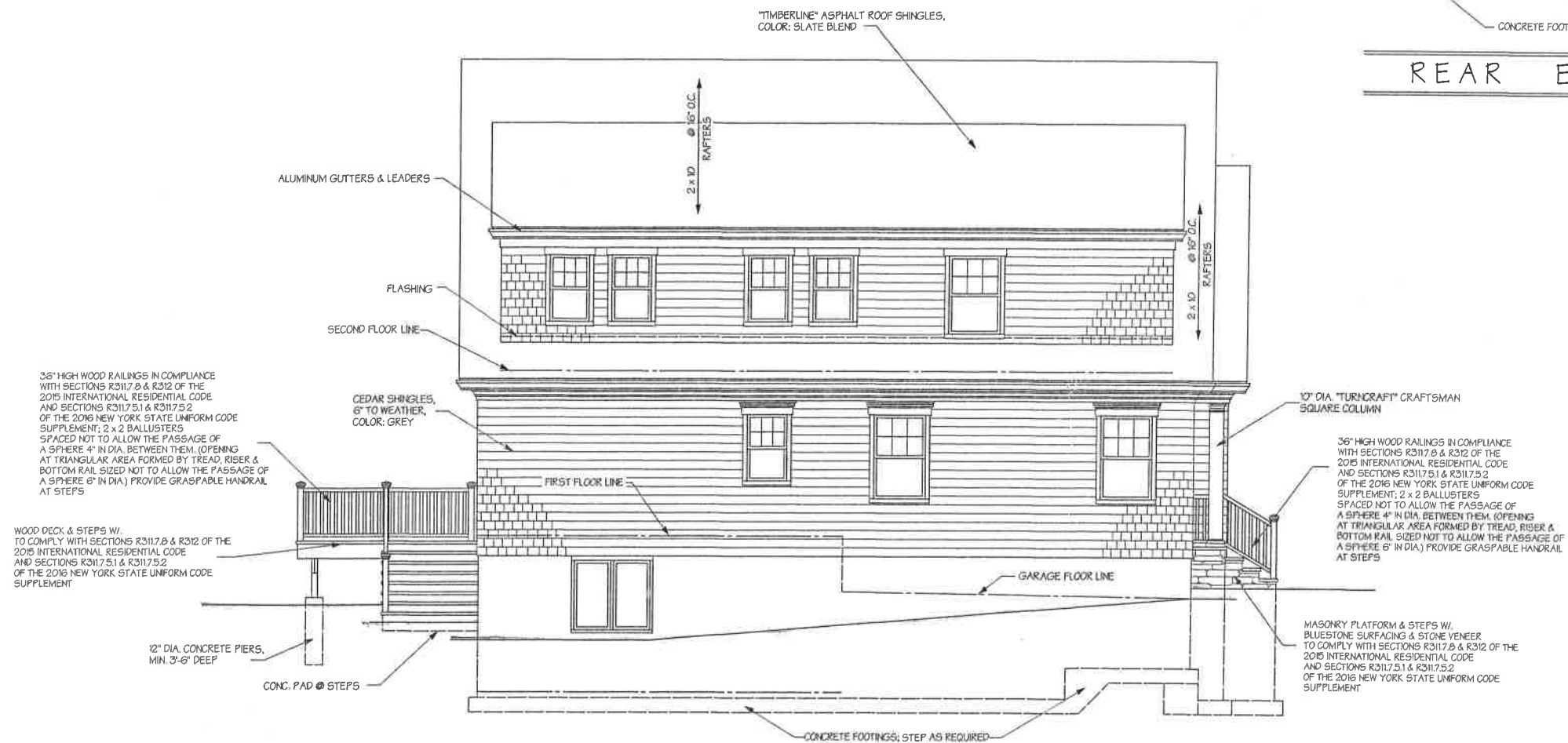


| | | | |
|--|--|----------------|--|
| REVISIONS: | | A-2 | |
| PROPOSED RESIDENCE FOR MR. K. O'SHEA 312 FIFTH STREET SECTION: 154.28 BLOCK: 1 LOT: 14 VILLAGE OF MAMARONECK, NEW YORK | | | |
| JOB #: | | DATE: 10/10/17 | |
| <div>RICHAU MUSTACATO GRIPPI ASSOCIATES</div> <div></div> <div>350 Theodore Fremd Ave. Rye, New York 10580 914-698-5589 www.rmgarchitects.com</div> | | ARCHITECTS | |
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REAR ELEVATION

SCALE: 1/4" = 1'-0"



LEFT SIDE ELEVATION

SCALE: 1/4" = 1'-0"

REVISIONS:

A-3

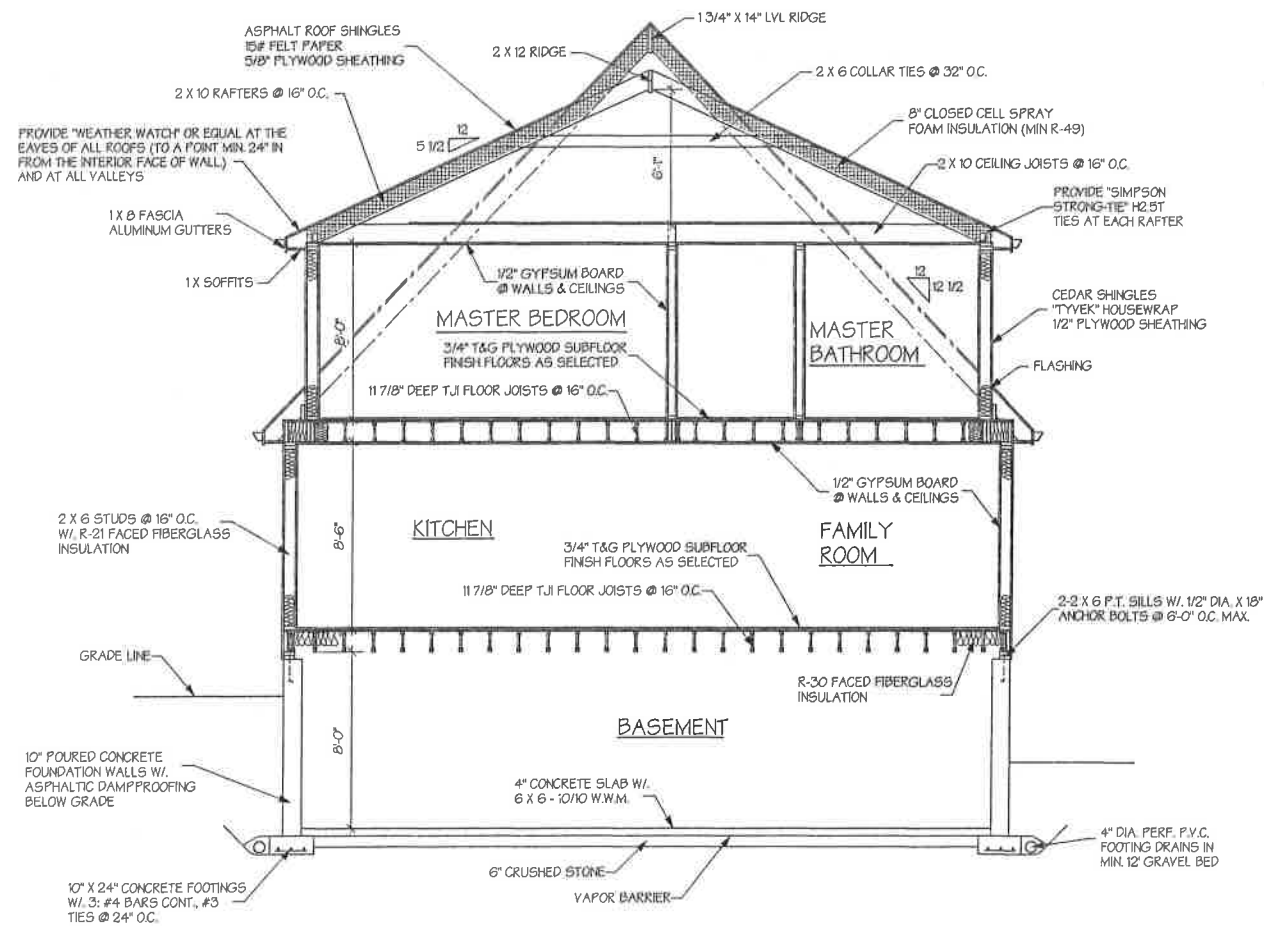
PROPOSED RESIDENCE
FOR MR. K. O'SHEA
312 FIFTH STREET
SECTION: 154.28 BLOCK: 1 LOT: 14
VILLAGE OF MAMARONECK, NEW YORK

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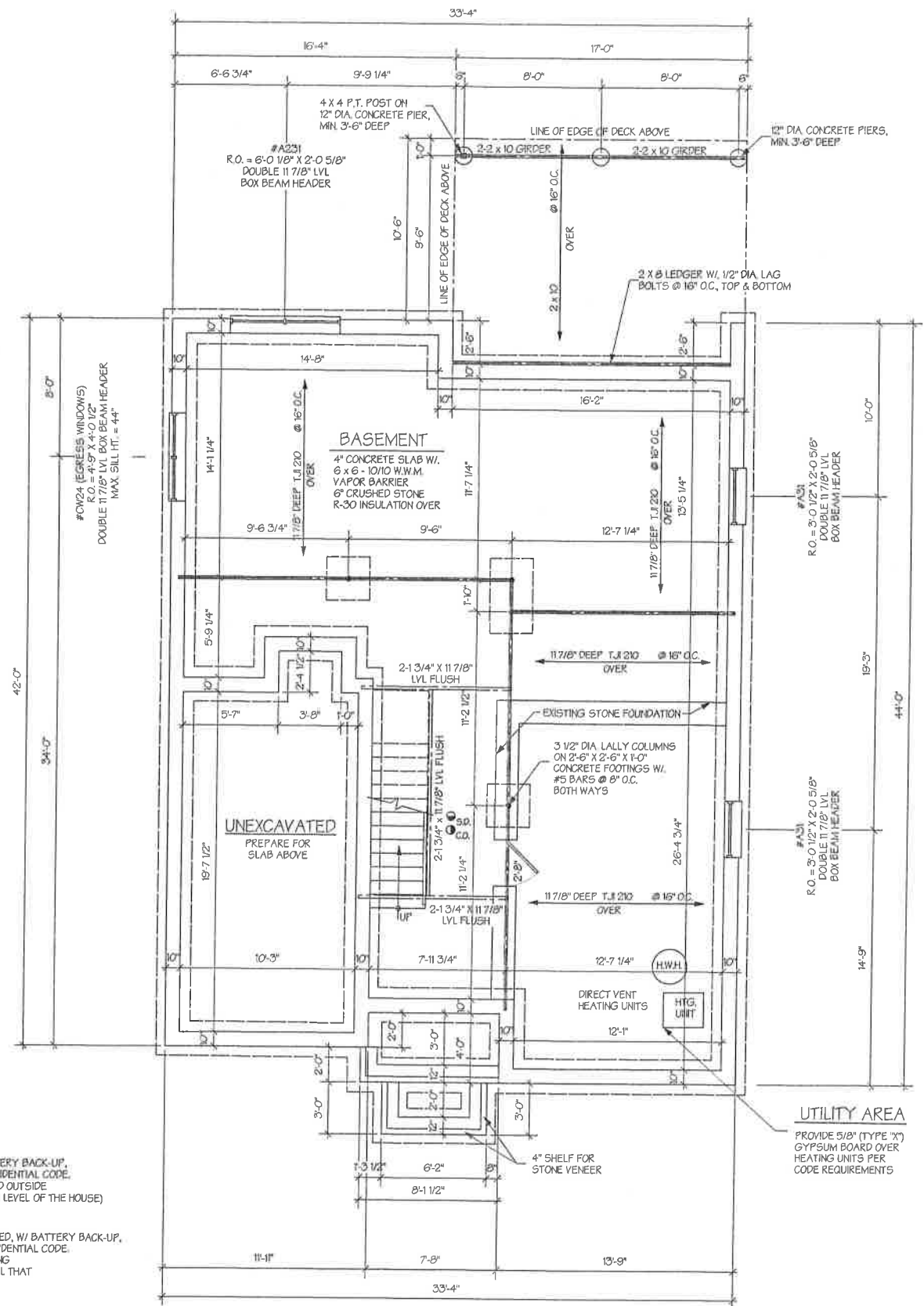
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SECTION @ KITCHEN/FAMILY ROOM

SCALE: 1/4" = 1'-0"

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- Ⓢ.C.O. DENOTES HARDWIRE CARBON MONOXIDE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R315 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE. LOCATIONS AS DENOTED ON PLANS (ON EACH LEVEL WITH SLEEPING AREAS, WITHIN 15 FEET OF THE SLEEPING AREA AND ON ANY LEVEL THAT CONTAINS A CARBON MONOXIDE SOURCE).



FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

REVISIONS:

A-4

PROPOSED RESIDENCE
FOR MR. K. O'SHEA
312 FIFTH STREET
SECTION: 154.28 BLOCK: 1 LOT: 14
VILLAGE OF MAMARONECK, NEW YORK

JOB #:

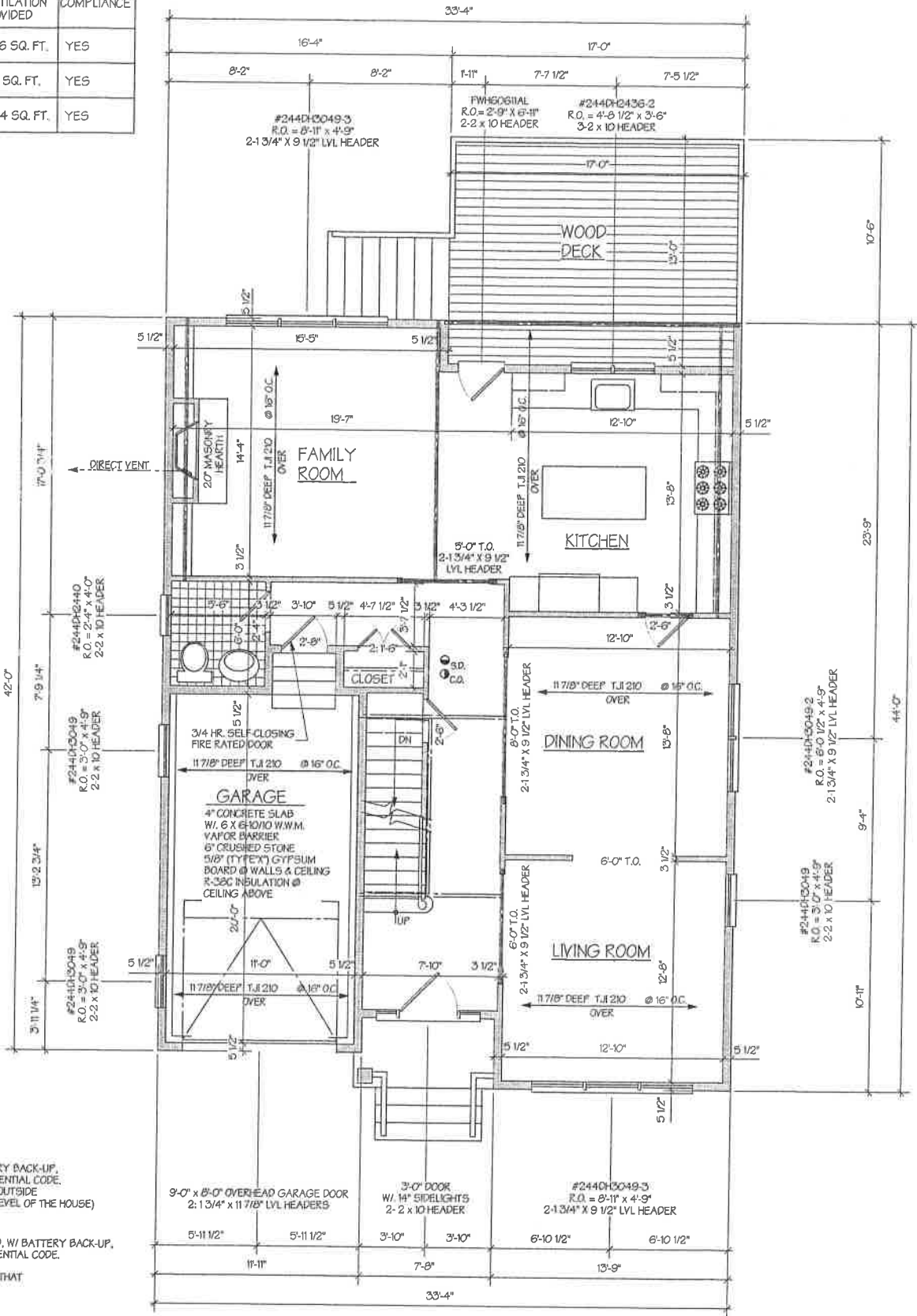
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| LIGHT AND VENTILATION CALCULATIONS | | | | | | |
|------------------------------------|----------------------|---------------------|----------------|---------------------------|----------------------|------------|
| ROOM NAME | FLOOR AREA (SQ. FT.) | LIGHT REQUIRED (8%) | LIGHT PROVIDED | VENTILATION REQUIRED (4%) | VENTILATION PROVIDED | COMPLIANCE |
| KITCHEN/ FAMILY RM. | 445 | 35.60 SQ. FT. | 60.74 SQ. FT. | 17.80 SQ. FT. | 57.26 SQ. FT. | YES |
| DINING ROOM | 175 | 14.00 SQ. FT. | 19.82 SQ. FT. | 7.00 SQ. FT. | 11.52 SQ. FT. | YES |
| LIVING ROOM | 163 | 13.04 SQ. FT. | 39.64 SQ. FT. | 6.52 SQ. FT. | 23.04 SQ. FT. | YES |

PROVIDE WINDOW FALL PROTECTION DEVICES ON ALL WINDOWS, WHICH LIMITS RAISING THE SASH TO A POINT NOT TO ALLOW THE PASSAGE OF A SPHERE 4" IN DIA. TO PASS THROUGH THE OPENING WHEN FIRST OPENED, WHERE THE TOP OF THE SILL IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND GREATER THAN 72" ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, IN COMPLIANCE WITH SECTION R312 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE



- Ⓢ.D. DENOTES HARDWIRE SMOKE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R314 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE. LOCATIONS AS DENOTED ON PLANS (IN ALL SLEEPING ROOMS AND OUTSIDE ROOMS IN IMMEDIATE VICINITY OF SLEEPING ROOMS AND ON EACH LEVEL OF THE HOUSE)
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FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

REVISIONS:

PROPOSED RESIDENCE
FOR MR. K. O'SHEA
312 FIFTH STREET
SECTION: 154.28 BLOCK: 1 LOT: 14
VILLAGE OF MAMARONECK, NEW YORK

JOB #:

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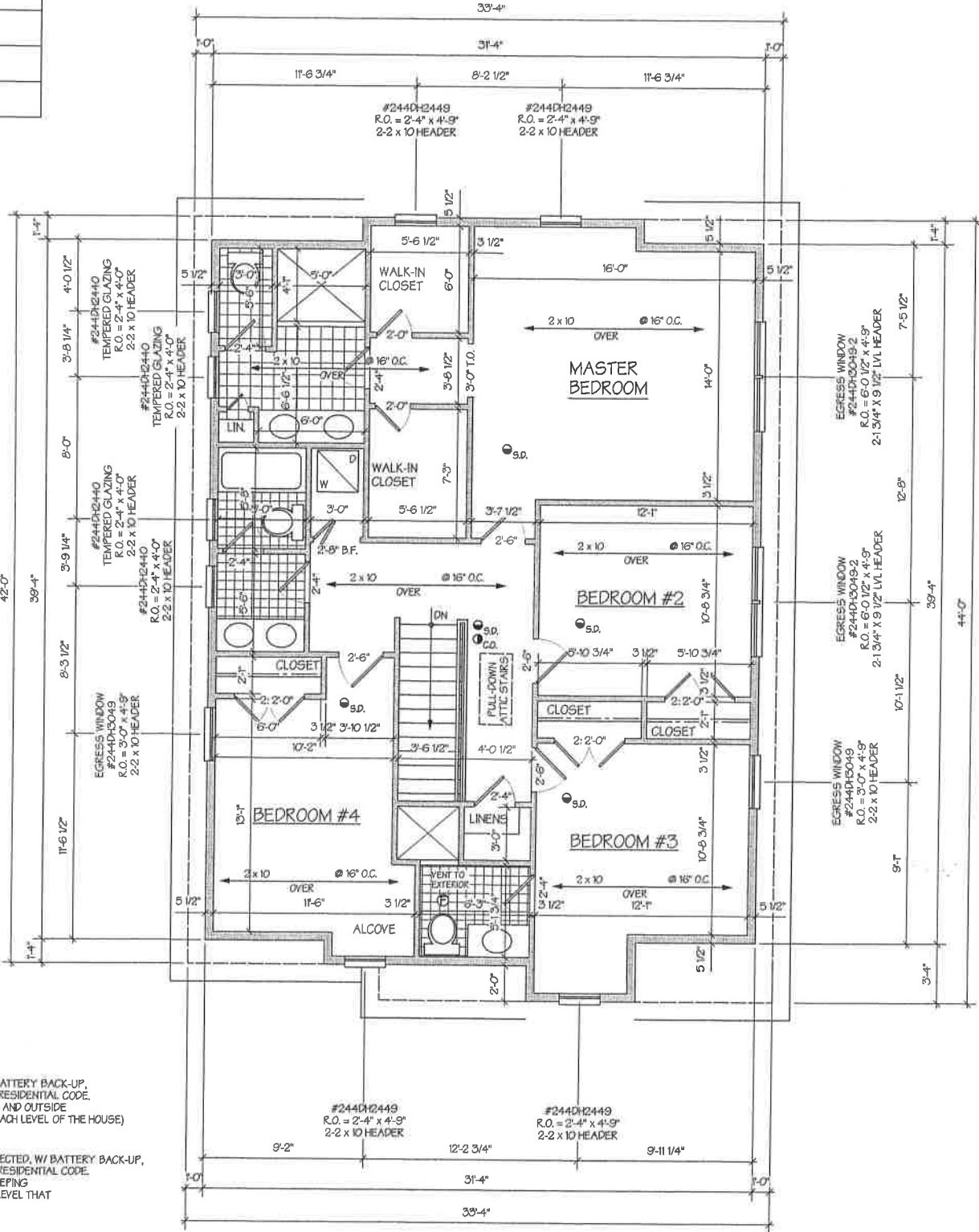
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A-5

| LIGHT AND VENTILATION CALCULATIONS | | | | | | |
|------------------------------------|----------------------|---------------------|----------------|---------------------------|----------------------|------------|
| ROOM NAME | FLOOR AREA (SQ. FT.) | LIGHT REQUIRED (8%) | LIGHT PROVIDED | VENTILATION REQUIRED (4%) | VENTILATION PROVIDED | COMPLIANCE |
| MASTER BEDROOM | 244 | 19.52 SQ. FT. | 27.04 SQ. FT. | 9.76 SQ. FT. | 15.86 SQ. FT. | YES |
| BEDROOM #2 | 130 | 10.40 SQ. FT. | 19.82 SQ. FT. | 5.20 SQ. FT. | 11.52 SQ. FT. | YES |
| BEDROOM #3 | 147 | 11.76 SQ. FT. | 17.13 SQ. FT. | 5.88 SQ. FT. | 10.10 SQ. FT. | YES |
| BEDROOM #4 | 154 | 12.32 SQ. FT. | 17.13 SQ. FT. | 6.16 SQ. FT. | 10.10 SQ. FT. | YES |

PROVIDE WINDOW FALL PROTECTION DEVICES ON ALL WINDOWS, WHICH LIMITS RAISING THE SASH TO A POINT NOT TO ALLOW THE PASSAGE OF A SPHERE 4" IN DIA. TO PASS THROUGH THE OPENING WHEN FIRST OPENED, WHERE THE TOP OF THE SILL IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND GREATER THAN 72" ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, IN COMPLIANCE WITH SECTION R312 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE.

EGRESS WINDOW DIMENSIONS:
(PER REQUIREMENTS OF 2015 INTERNATIONAL RESIDENTIAL CODE SECTION R310)
ANDERSEN UNIT #2440-3049:
CLEAR OPENING DIMENSION = 5.76 SQ. FT.
CLEAR WIDTH DIMENSION = 32.56"
CLEAR HEIGHT DIMENSION = 25.45"



- S.D. DENOTES HARDWIRE SMOKE ALARMS, INTERCONNECTED, W/ BATTERY BACK-UP, COMPLYING WITH SECTION R314 OF THE 2015 INTERNATIONAL RESIDENTIAL CODE. LOCATIONS AS DENOTED ON PLANS (IN ALL SLEEPING ROOMS AND OUTSIDE ROOMS IN IMMEDIATE VICINITY OF SLEEPING ROOMS AND ON EACH LEVEL OF THE HOUSE)
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SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

REVISIONS:

PROPOSED RESIDENCE
FOR MR. K. O'SHEA
312 FIFTH STREET
SECTION: 154.28 BLOCK: 1 LOT: 14
VILLAGE OF MAMARONECK, NEW YORK

JOB #:

DATE: 10/10/17

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A-6

Village of Mamaroneck, NY

Item Title: 145-149 Library Lane

Item Summary: 145-149 LIBRARY LANE - NEW 4 STORY BUILDING
APPLICANT: GARSON DEVELOPMENT - CONTRACT VENDEE
NOTE: NEEDS PLANNING BOARD APPROVAL

Fiscal Impact:

ATTACHMENTS:

| <u>Description</u> | <u>Upload Date</u> | <u>Type</u> |
|---------------------------|---------------------------|--------------------|
| 145-149 Library Lane | 10/12/2017 | Presentation |



1 SECOND- FOURTH FLOOR PLAN
A-1 SCALE: 1/8" = 1'-0"

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| REVISION | DATE |
|-------------------|----------|
| 1. CLIENT MEETING | 02.24.17 |
| 2. PB SUBMISSION | 05.08.17 |
| 3. PB SUBMISSION | 06.16.17 |
| 4. PB SUBMISSION | 08.24.17 |





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armenok, new york 10504
(914) 273-2774 fax (914) 273-2776

NEW APARTMENT
BUILDING
FOR
145 LIBRARY LANE
MAMARONECK, NEW YORK

Dwg Name:
2ND, 3RD & 4TH
FLOOR PLAN

| | |
|-----------------------|-----------------------------|
| Project No: 17001 | Sheet Number: A-1 |
| Date: MAY 24, 2017 | |

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| REVISION | DATE |
|-------------------|----------|
| 1. CLIENT MEETING | 02.24.17 |
| 2. PB SUBMISSION | 05.08.17 |
| 3. PB SUBMISSION | 06.16.17 |
| 4. PB SUBMISSION | 08.24.17 |



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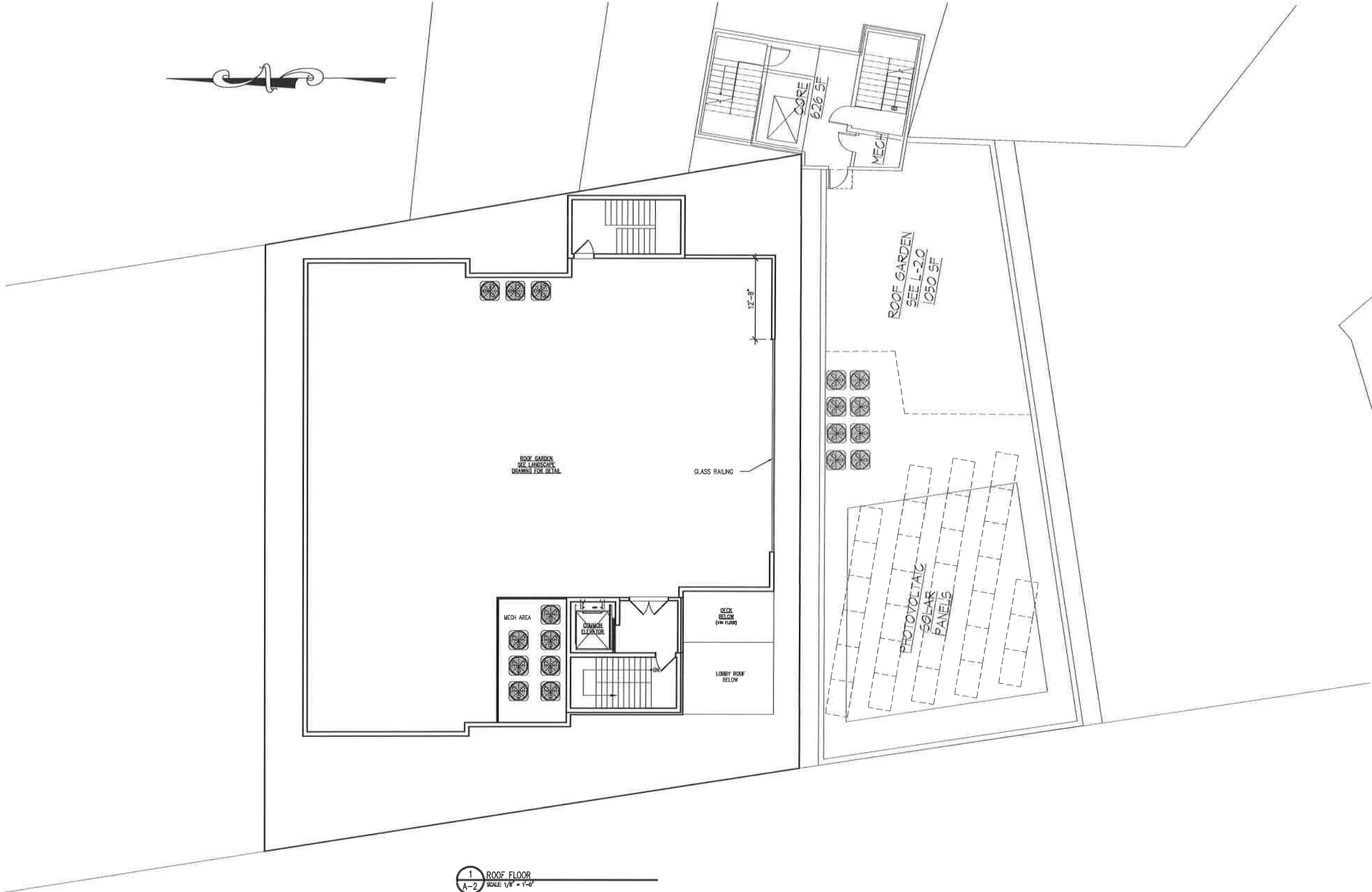
NEW APARTMENT BUILDING
FOR
145 LIBRARY LANE
MAMARONECK, NEW YORK

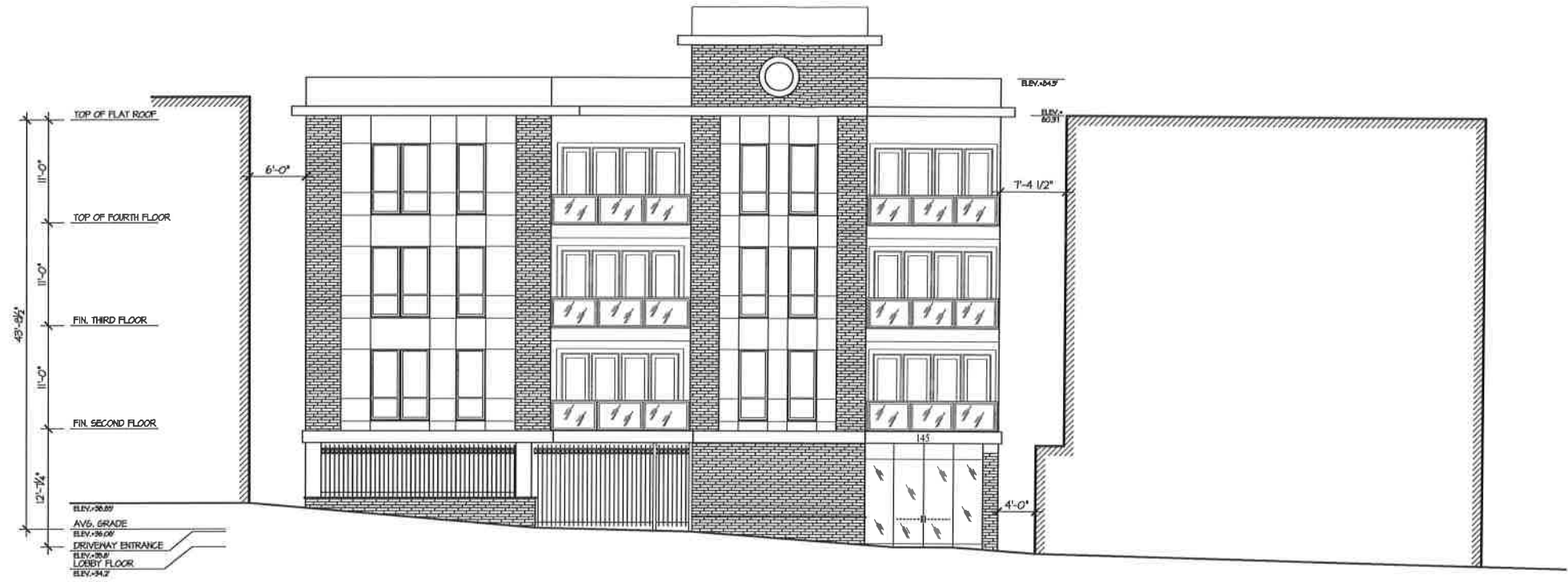
Dwg Name:
ROOF PLAN

Project No:
17001

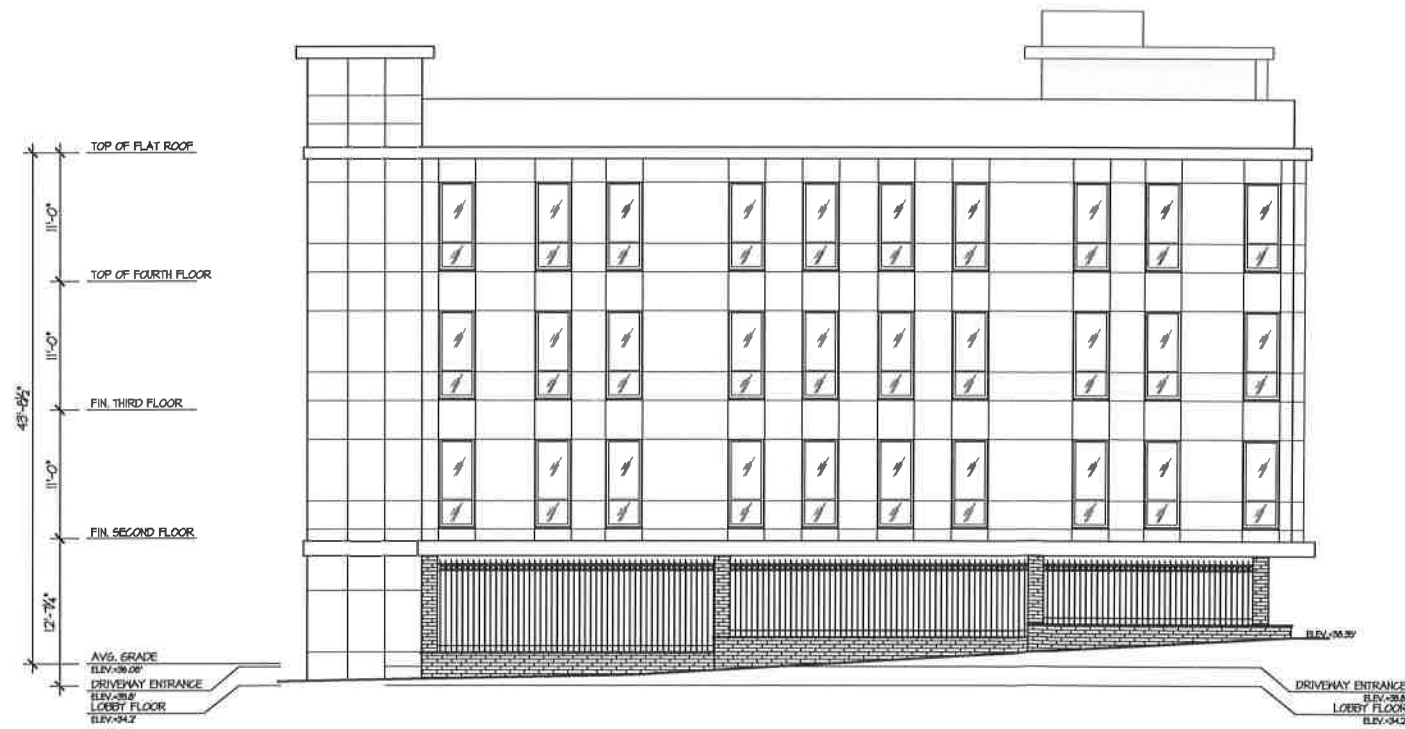
Date:
MAY 24, 2017

Sheet Number:
A-2





1 FRONT/NEST ELEVATION
A-2 SCALE: 1/8" = 1'-0"



2 LEFT SIDE/ NORTH ELEVATION
A-2 SCALE: 1/8" = 1'-0"

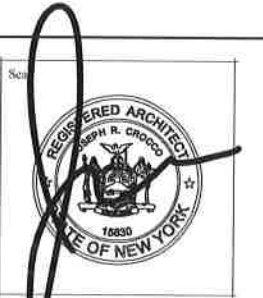
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| REVISION | DATE |
|-------------------|----------|
| 1. CLIENT MEETING | 02.24.17 |
| 2. PD SUBMISSION | 03.08.17 |
| 3. PD SUBMISSION | 06.16.17 |
| 4. PD SUBMISSION | 08.24.17 |

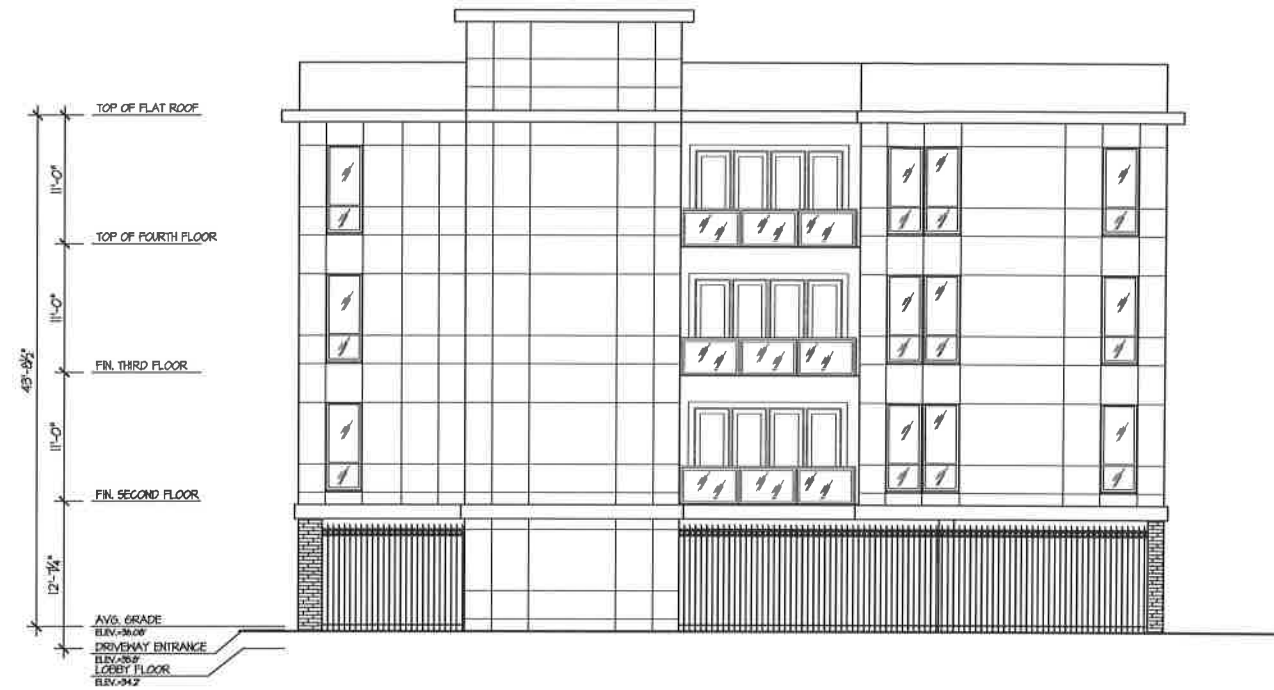


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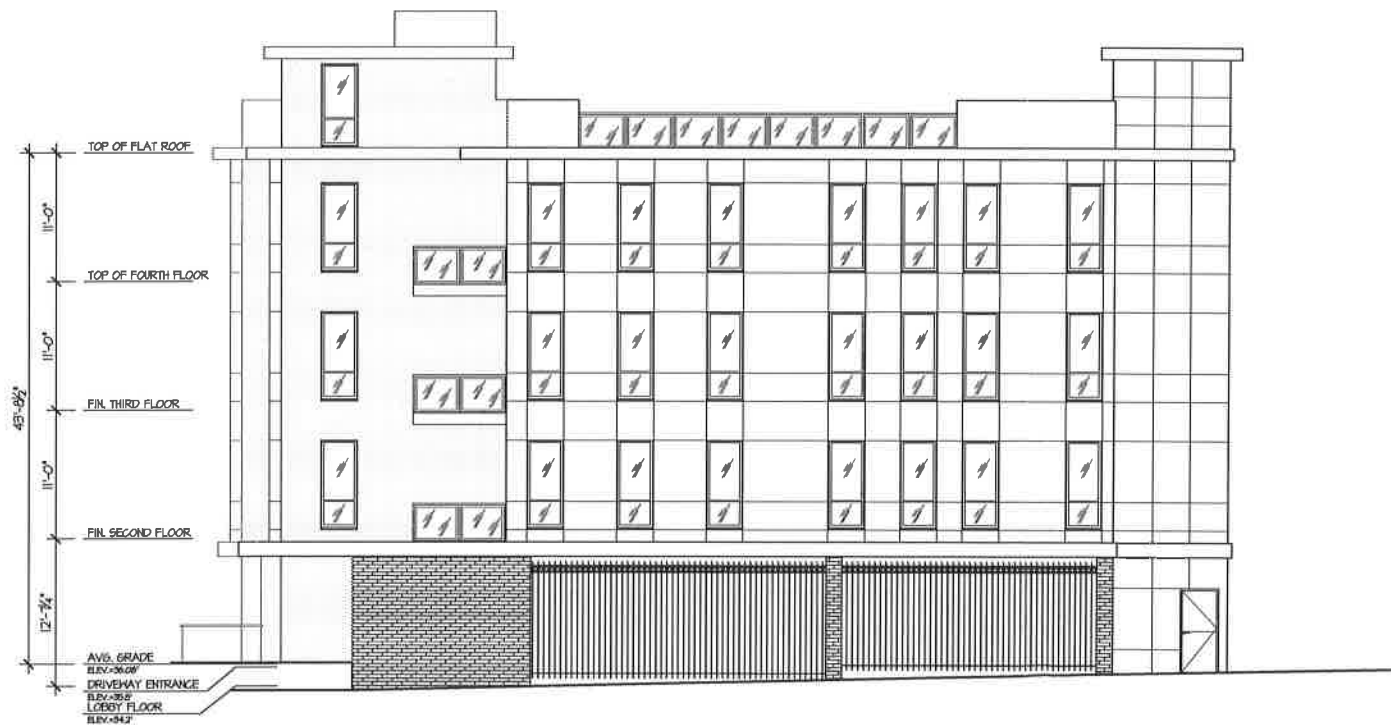
NEW APARTMENT
BUILDING
FOR
145 LIBRARY LANE
MAMARONECK, NEW YORK

Dwg. Name
ELEVATIONS

Project No.
17001
Date
APRIL 10, 2017
Sheet Number
A-3



1 REAR/EAST ELEVATIONS
A-3 SCALE: 1/8" = 1'-0"



2 RIGHT SIDE/SOUTH ELEVATION
A-3 SCALE: 1/8" = 1'-0"

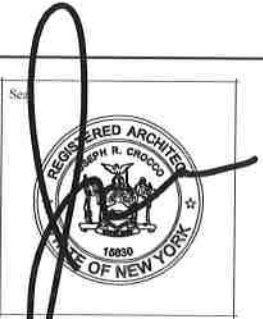
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| REVISION | DATE |
|-------------------|----------|
| 1. CLIENT MEETING | 02.24.17 |
| 2. PB SUBMISSION | 05.08.17 |
| 3. PB SUBMISSION | 06.16.17 |
| 4. PB SUBMISSION | 08.24.17 |



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NEW APARTMENT
BUILDING
FOR
145 LIBRARY LANE
MAMARONECK, NEW YORK

Draw Name:
ELEVATIONS

Project No:
17001
Date:
APRIL 10, 2017
Sheet Number:
A-4

Village of Mamaroneck, NY

Item Title: next meeting

Item Summary: THE NEXT MEETING WILL BE HELD ON THURSDAY NOVEMBER 16, 2017

Fiscal Impact: