



ARCHITECTURAL & PRELIMINARY SITE PLAN REVIEW BOARD

FRANK J. CHIARA – VILLAGE TRUSTEE LIAISON
TIMOTHY T. TWEEDY, P.E. – CHAIRMAN
JOHN LOCKWOOD
ANTHONY KRUYZYSKI
ROGER KUEHNLENZ
EDWARD CHATTERTON
EDWARD BETSCH (ALTERNATE)

RENEE MARCUS, AIA – SUPERINTENDENT OF BUILDINGS
LUCILLE LANGONE – SECRETARY

JANUARY 25, 2023

8:00 pm

Note Location: Village Hall – Fire Fighters Hall, 2nd Floor

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
1	8:00 p.m.	177	Floral Boulevard	Garage	Peter K. Kempton	Demetris Demetriou, RA
2	8:05 p.m.	89	Mayfair Avenue	Window Replacements and Exterior Repairs	Maryann Norton	Demetris Demetriou, RA
3	8:10 p.m.	48	West Hitchcock Avenue	Proposed Rear Dormer to Existing Detached Garage	Ray Fabian	Gray Architectural Services
4	8:15 p.m.	135	Floral Boulevard	New Garage	Bill Handy	Bobby K Architects
5	8:20 p.m.	23	Plainfield Avenue	Solar Panels	Mario Esuebio	Trinity Solar
6	8:25 p.m.	14	Hinsdale Avenue	Solar Panels	Jigar Patel	Trinity Solar
7	8:30 p.m.	10	Adams Street	Solar Panels	Richard Zimmerman	Greenleaf Solar
8	8:35 p.m.	326	Lowell Avenue	Solar Panels	Sung Hsin-Yeh	Kamtech Solar Solutions
9	8:40 p.m.	130	Cypress Street	In-Ground Pool	Michael Hatzidakis	Kenneth R. Garvin, AIA

Questions about the projects can be emailed to ARB@FPVillage.org prior to the meeting to allow for the Village and Applicant to be prepared with answers.

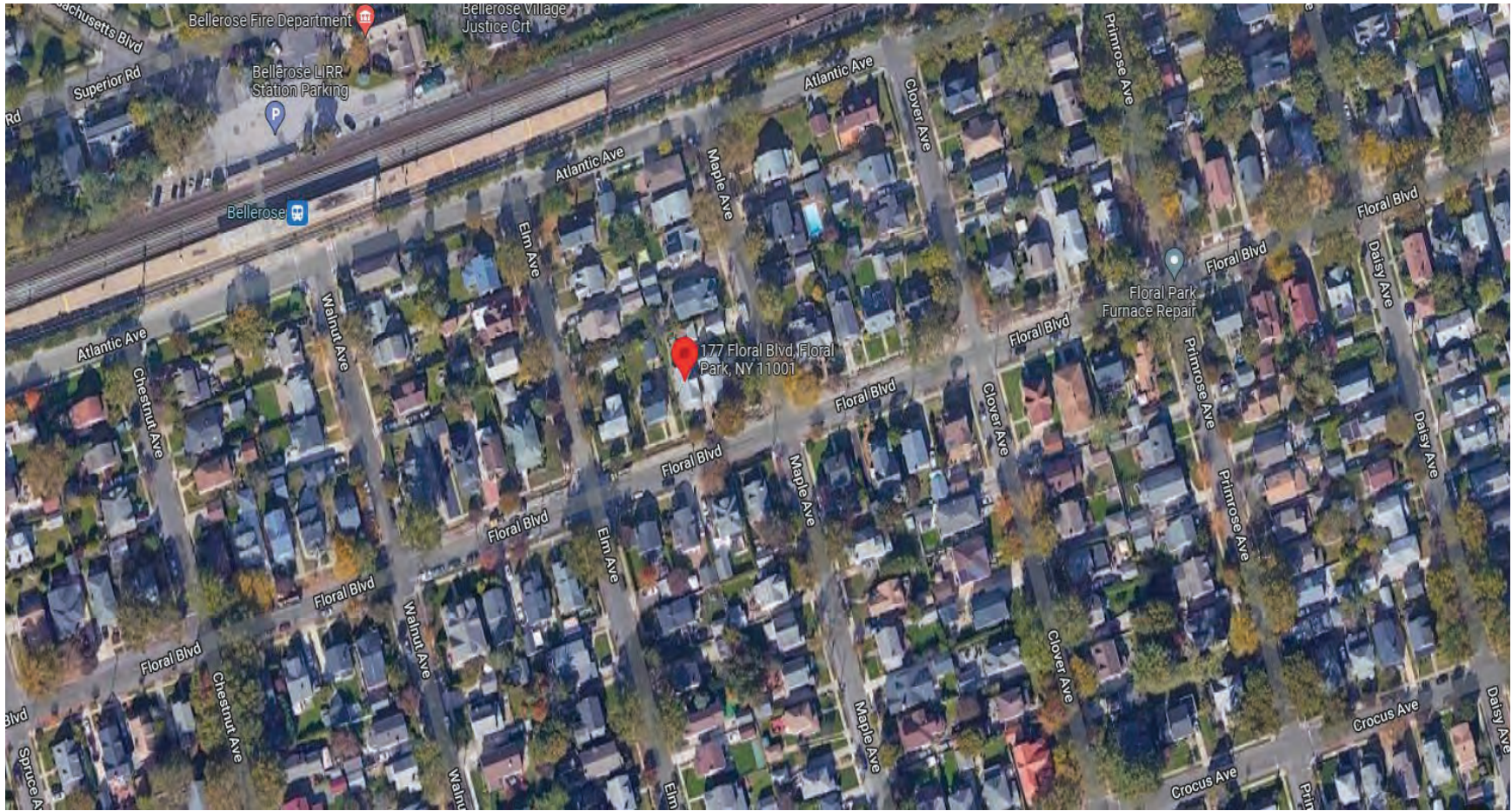
Supporting documents will be posted to the Architectural Review Board web page at least 24 hours prior to the meeting.

Click [here](#) for the ARB webpage.

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
1	8:00 p.m.	177	Floral Boulevard	Garage	Peter K. Kempton	Demetris Demetriou, RA



177 Floral Boulevard (Aerial View)





PROPOSED 12' WIDE
DRIVEWAY

EXISTING DRIVEWAY
TO BE REMOVED

177 FLORAL BLVD.



PROPOSED
GARAGE LOCATION



PROPOSED
DRIVEWAY LOCATION

177 FLORAL BLVD.

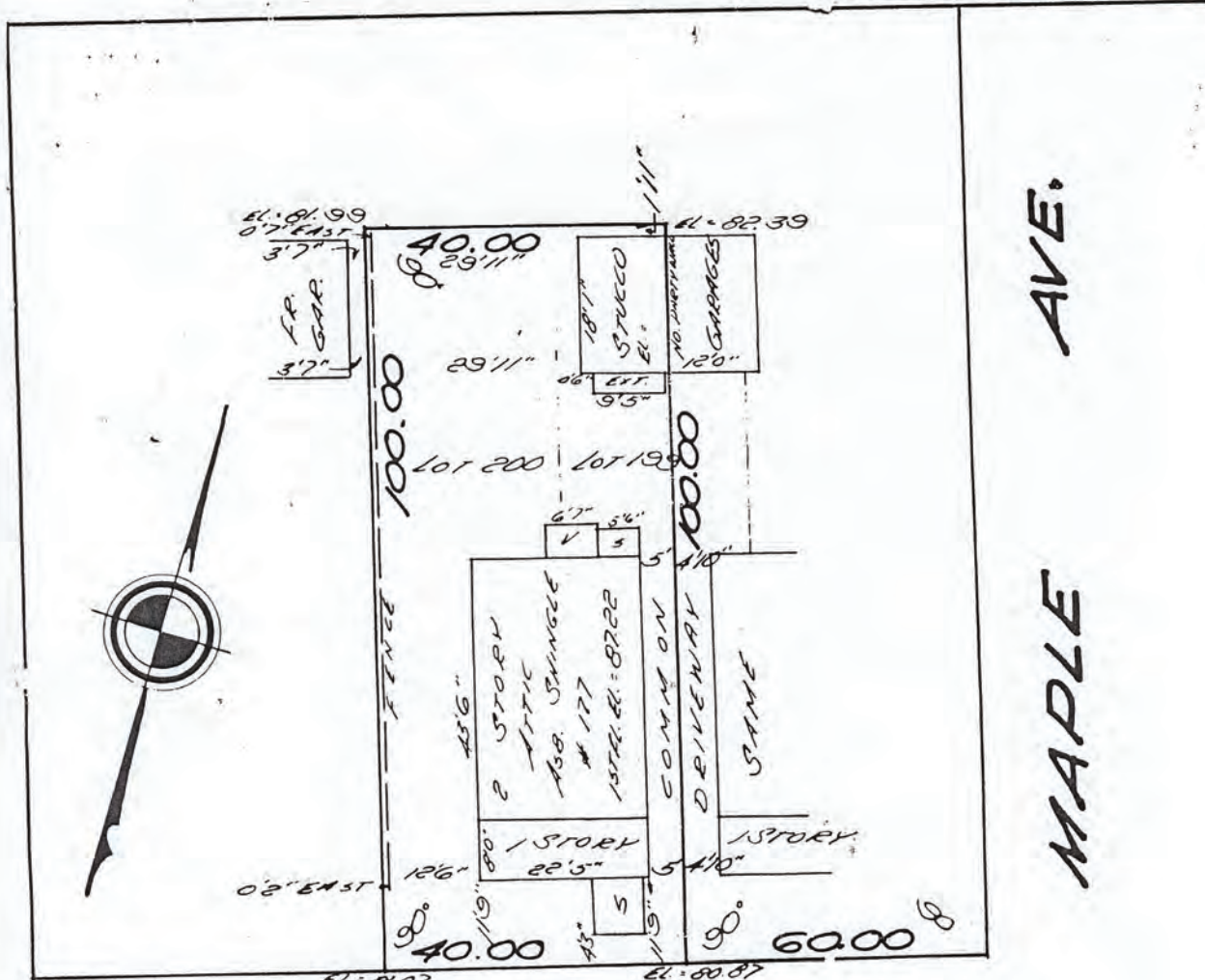


EXISTING SHARED
GARAGE TO BE
DEMOLISHED



REAR VIEW OF MAIN
RESIDENCE &
EXISTING DRIVEWAY
TO BE REMOVED

177 FLORAL BLVD.



MAPLE AVE.

FLORAL BLVD.

EL: 80.93 PAVED ROAD EL: 80.87

LOT NOS. REFER TO MAP OF ROSE PROPERTY AT FLORAL PARK
 GUARANTEED TO FEDERAL HOUSING ADMINISTRATION
 INTER-COUNTY TITLE GUARANTY & MORTGAGE CO.
 PILGRIM MORTGAGE CO.
 WILLIAM H. PARRY, INC
 LAND SURVEYORS - CITY SURVEYOR

SURVEYED AUG 1, 1961

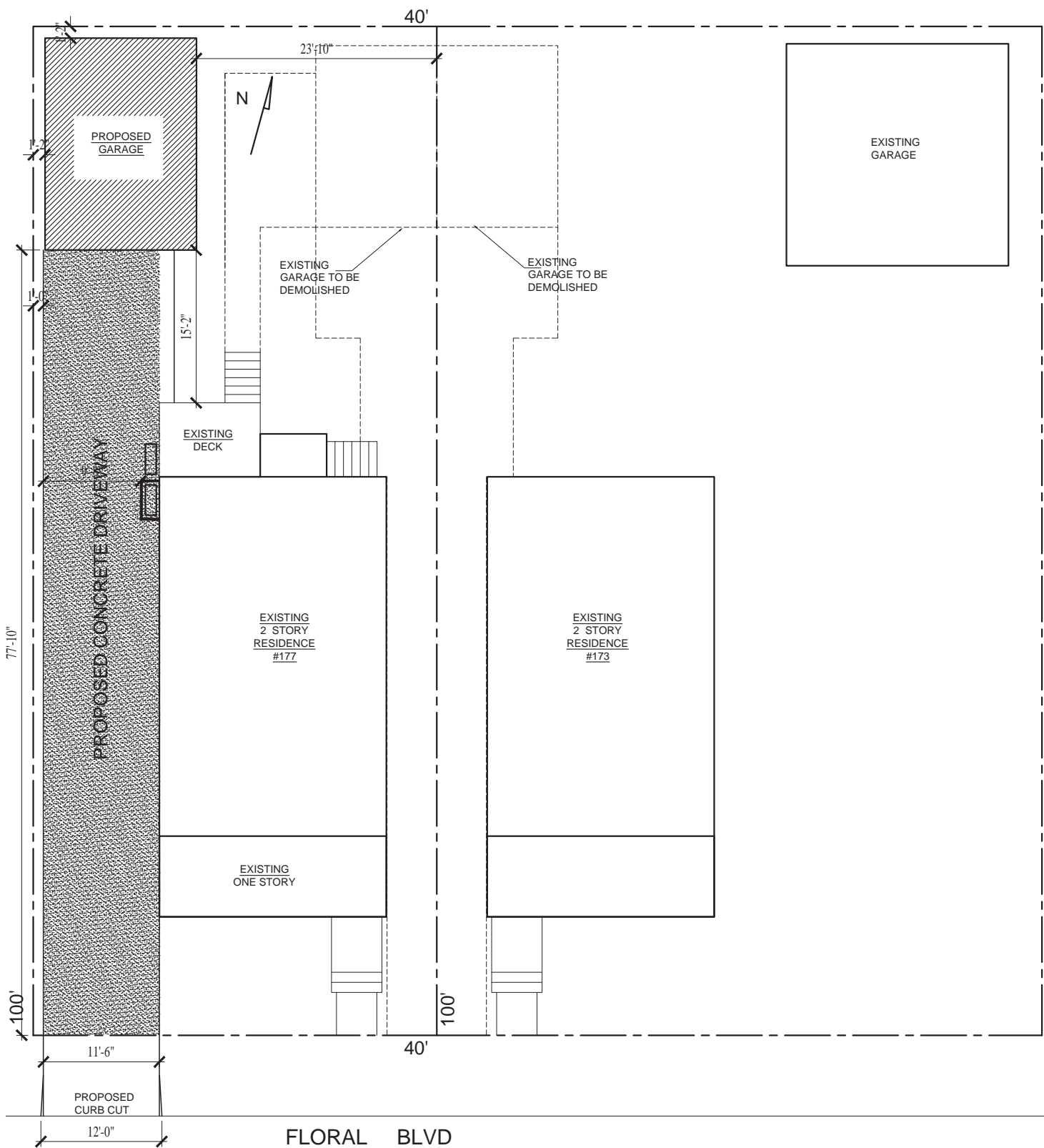
161-10 JAMAICA AVENUE
JAMAICA, N. Y. C.

U. S. STANDARD

NASSAU-SUFFOLK OFFICE
500 JERICO TURNPIKE SYOSSET, LONG ISL

NASSAU COUNTY, N. Y.

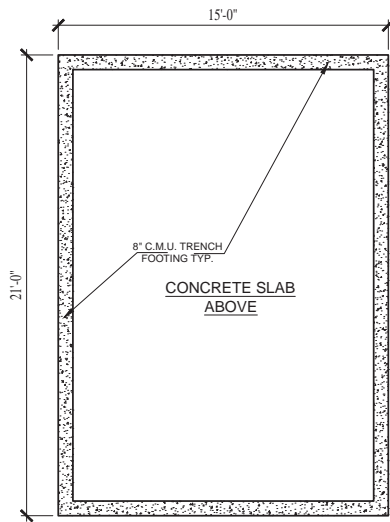
S. 92 B. 134 651A



MAPLE AVENUE

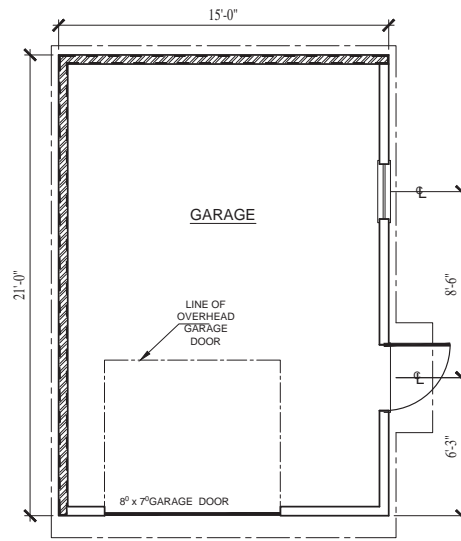
SITE PLAN
 SCALE: 1/8" = 1'-0"

FLORAL BLVD
 SITE PLAN INFORMATION TAKEN FROM SURVEY DRAWN
 by LIC. SURVEYOR WILLIAM H. PARRY, DATED: 8-1-1961



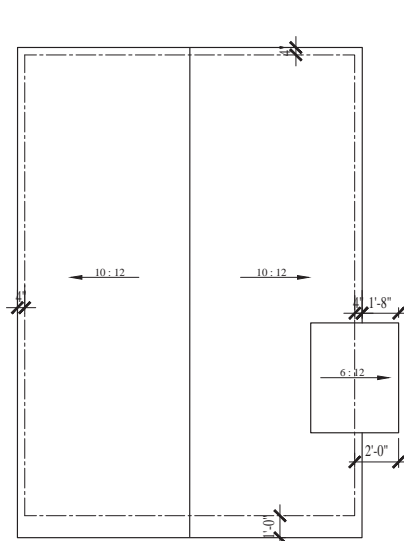
FOUNDATION PLAN

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



GARAGE FLOOR PLAN

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



ROOF PLAN

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

MATERIAL

GARAGE DOOR: CLASSIC COLLECTION by "CLOPAY" or EQUAL
Color: WHITE

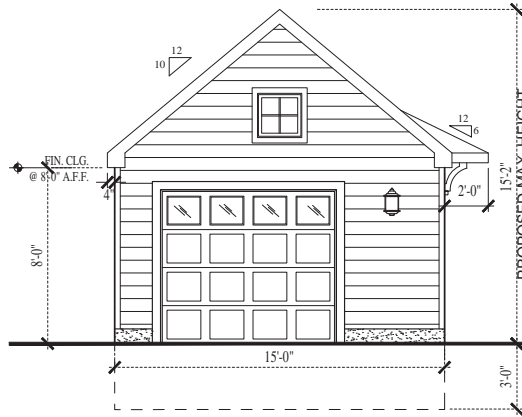
WINDOWS: VINYL, DOUBLE GLASS by "AMERICAN CRAFTSMAN" or EQUAL
color: WHITE

FASCIA & TRIM by "Azek"

Color: WHITE to match new garage door.

SIDING: VINYL, by "PLY GEM" or EQUAL
COLOR: WHITE

ROOFING: "GAF 20-YEAR, or EQUAL
"Color: CHARCOAL



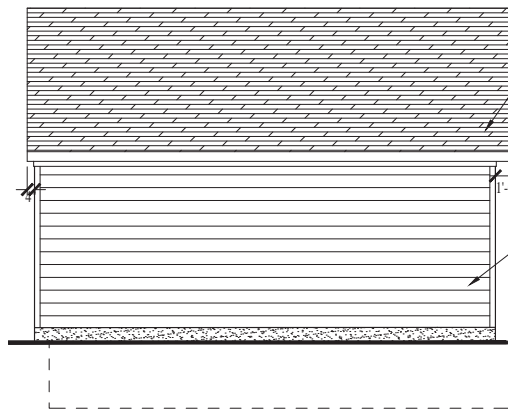
FRONT ELEVATION SCALE: 1/4"=1'-0"



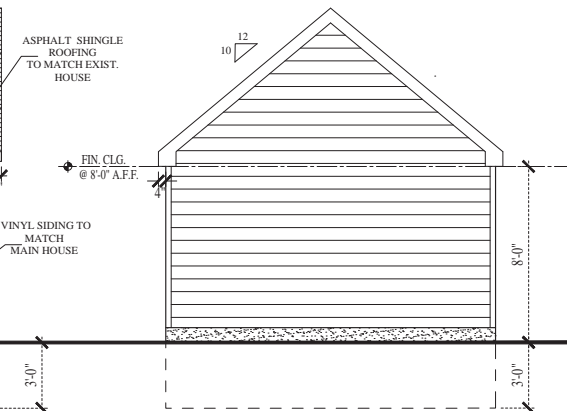
RIGHT SIDE ELEVATION SCALE: 1/4"=1'-0"

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE NEW YORK STATE, LOCAL AND ALL APPLICABLE CODES.
- IT IS THE INTENTION OF THESE DRAWINGS TO PROVIDE FOR THE CONSTRUCTION OF A RESIDENCE INCLUDING EVERY ITEM AS SHOWN OR REASONABLY IMPLIED OR REQUIRED TO COMPLETE ALL WORK.
- THE DRAWING AND NOTES ARE INTENDED TO BE COMPLETE. SHOULD ANYTHING BE OMITTED FROM THE DRAWINGS NECESSARY TO THE PROPER CONSTRUCTION OF THE WORK, HEREIN DESCRIBED, IT SHALL BE THE DUTY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING.
- ONLY DRAWINGS APPROVED BY THE LOCAL MUNICIPALITY IS TO BE USED FOR CONSTRUCTION PURPOSES.
- ANY DISCREPANCIES IN THE PLANS, SPECIFICATIONS, DIMENSIONS, SIZING ETC. SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- NO PLANS OR DRAWINGS ARE TO BE SCALED. ONLY FIGURED DIMENSIONS ARE TO BE USED.
- LICENSED ELECTRICIAN TO BE USED FOR ALL ELECTRICAL WORK.
- LICENSED PLUMBER TO BE USED FOR ALL PLUMBING WORK.
- CONTRACTOR TO VERIFY WITH OWNER AND UTILITY PROVIDERS THE LOCATIONS OF ANY UNDERGROUND UTILITIES, TANKS, PIPES OR LINES AND PROVIDE ADEQUATE PROTECTION AS NECESSARY.
- CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY INSPECTIONS TO OBTAIN CERTIFICATES OF OCCUPANCY/COMPLETION.
- CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS, TECHNIQUES, SEQUENCES AND FOR COORDINATING ALL TRADES TO COMPLETE WORK.
- CONTRACTOR IS RESPONSIBLE TO LEAVE THE SITE AND SURROUNDING AREAS BROOM SWEEP CLEAN AT THE END OF EACH WORK DAY AND PREVENT THE ACCUMULATION OF WASTE AND DEBRIS ON THE CONSTRUCTION SITE.
- CONTRACTOR IS RESPONSIBLE TO ERECT AND MAINTAIN REASONABLE SAFE GUARDS AND PROTECTION OF THE SITE. THIS WILL INCLUDE FENCING, DANGER SIGNS AND OTHER WARNINGS.
- THE ARCHITECTS CERTIFICATION OF THE PLANS AND LIABILITY WITH THE WORK IS LIMITED TO THE PLANS CONFORMITY TO THE NEW YORK STATE UNIFORM FIRE AND PREVENTION AND BUILDING CODE.
- CONTRACTOR IS RESPONSIBLE FOR ALL FABRICATED MATERIALS FOR ACCURACY, FIT AND INSTALLATION.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ACCEPTANCE FOR ALL FABRICATIONS AND FABRICATED MATERIALS.
- CONTRACTOR TO COORDINATE WITH SIMPSON STRONG-TIE COMPANY, INC. 1-800-999-5099 TO PROVIDE ALL CONSTRUCTION CONNECTORS, HANGERS AND BRACING AS REQUIRED FOR WIND RESISTANCE CONNECTIONS TO PROVIDE CONTINUOUS LOAD PATH FROM THE ROOF TO THE FOUNDATION.



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



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

TABLE R301.2(1) CLIMATE AND GEOGRAPHIC DESIGN CRITERA												
GROUND SNOW LOAD	WIND DESIGN			SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM		WINTER DESIGN TEMP.	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMPERATURE	
	SPEED/MPH	SPEED/MPH	WIND-BORN DEBRIS ZONE		WEATHERING INDEX	FROST LINE DEPTH						
20 psf	120 mph	NO	NO	B	SEVERE	3'-0"	MODERATE TO HEAVY	NASSAU: 13	YES	ZONE X	496	52.9



WINDOWS:
VINYL ,DOUBLE GLASS
by "AMERICAN
CRAFTSMAN" or
EQUAL
color: WHITE



ROOFING : "GAF 20-YEAR, or EQUAL
"Color: CHARCOAL



GARAGE DOOR:
CLASSIC COLLECTION by "CLOPAY"
or EQUAL Color : WHITE



SIDING:
VINYL, by "PLY GEM" or EQUAL
COLOR : WHITE



FASCIA & TRIM

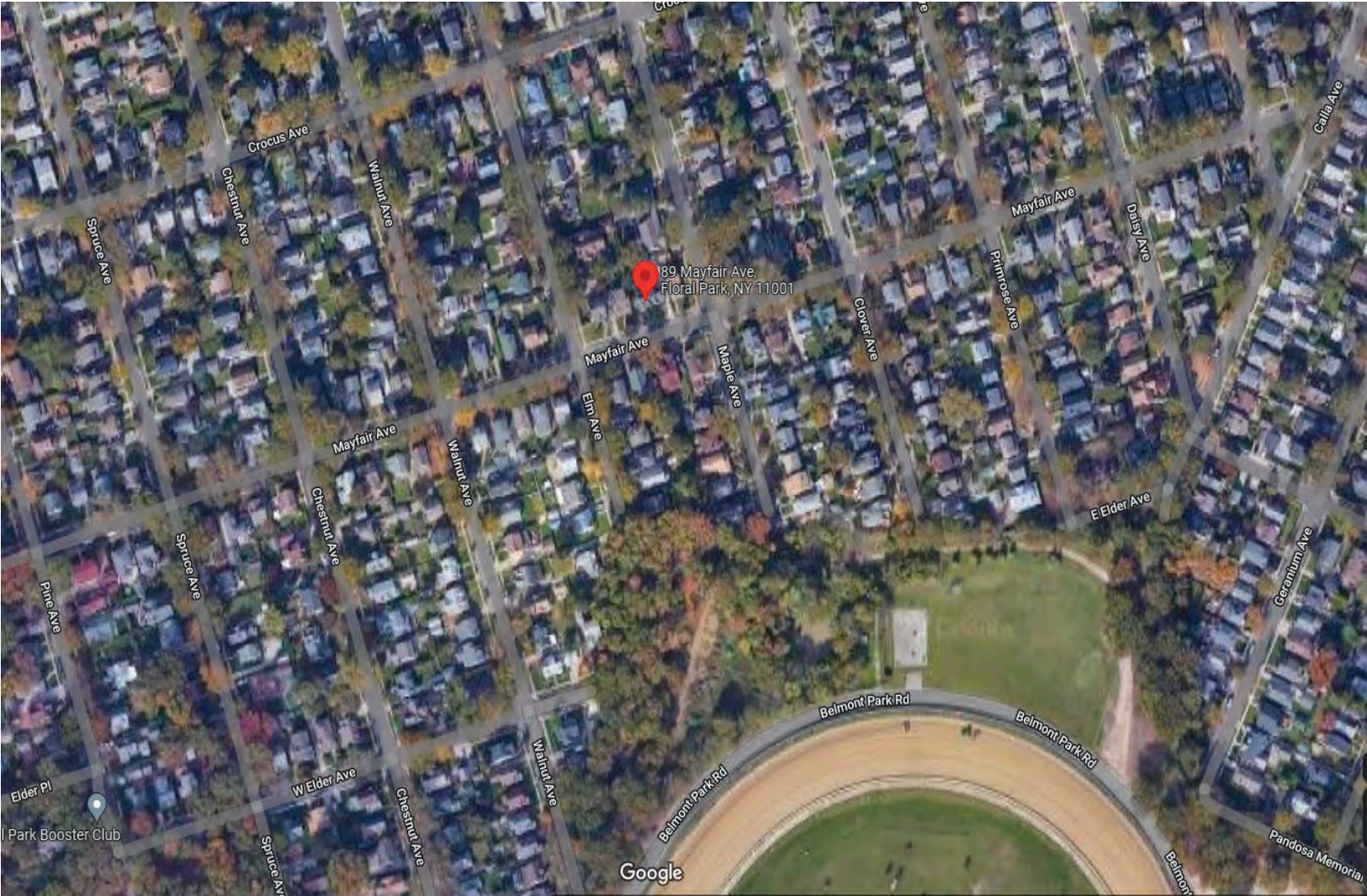
by "Azek"
Color: WHITE to match
new garage door.

MATERIAL at 177 FLORAL BLVD.

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
2	8:05 p.m.	89	Mayfair Avenue	Window Replacements and Exterior Repairs	Maryann Norton	Demetris Demetriou, RA



89 Mayfair Avenue (Aerial View)





REAR - LEFT SIDE VIEW



RIGHT SIDE VIEW- WEST

89 MAYFAIR AVE.



SUN ROOM- N-W



WEST SIDE VIEW "
DRIVEWAY"



FRONT VIEW

89 MAYFAIR AVE.



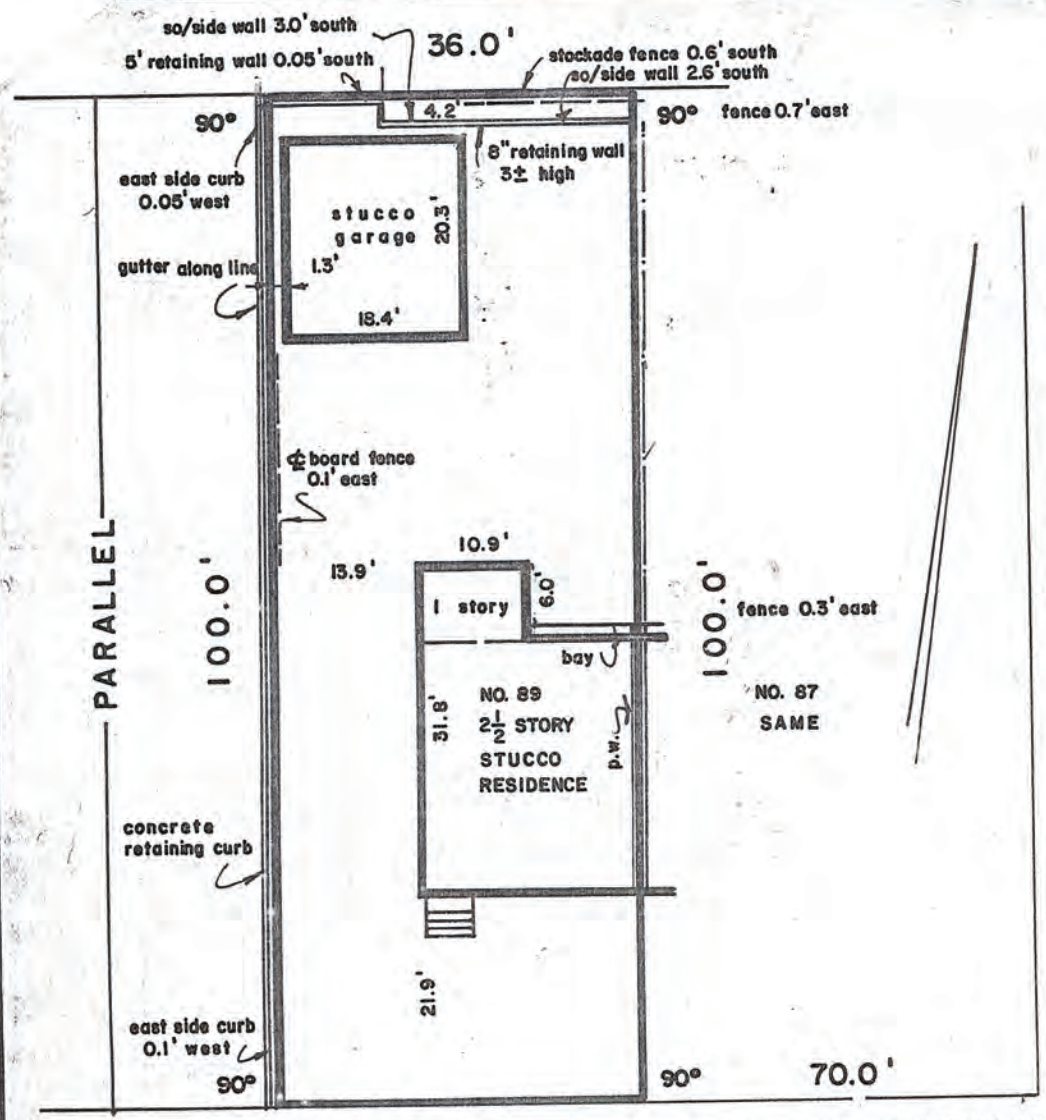
ATTACHED NEIGHBORING HOUSE TO THE RIGHT



NEIGHBORING HOUSE TO THE LEFT

ADJACENT NEIGHBORS at 89 MAYFAIR AVE.

SECTION 32 BLOCK 168 LOT 111, 828 SCALE 1" = 15' FE FENCE, P.W. PARTY WALL, R.O. ROOF OVER, C.E. CELLAR ENTRANCE, O.H.



MAPLE AVENUE

SURVEY TO BE USED SOLELY FOR THE PURPOSE OF THE CONVEYANCE OF TITLE OBJECTS SHOWN NOT TO BE USED FOR THE REMOVAL OR LAYOUT OF FENCES, HEDGES, CURBS, WALES OR ANY STRUCTURES.

MAYFAIR AVENUE

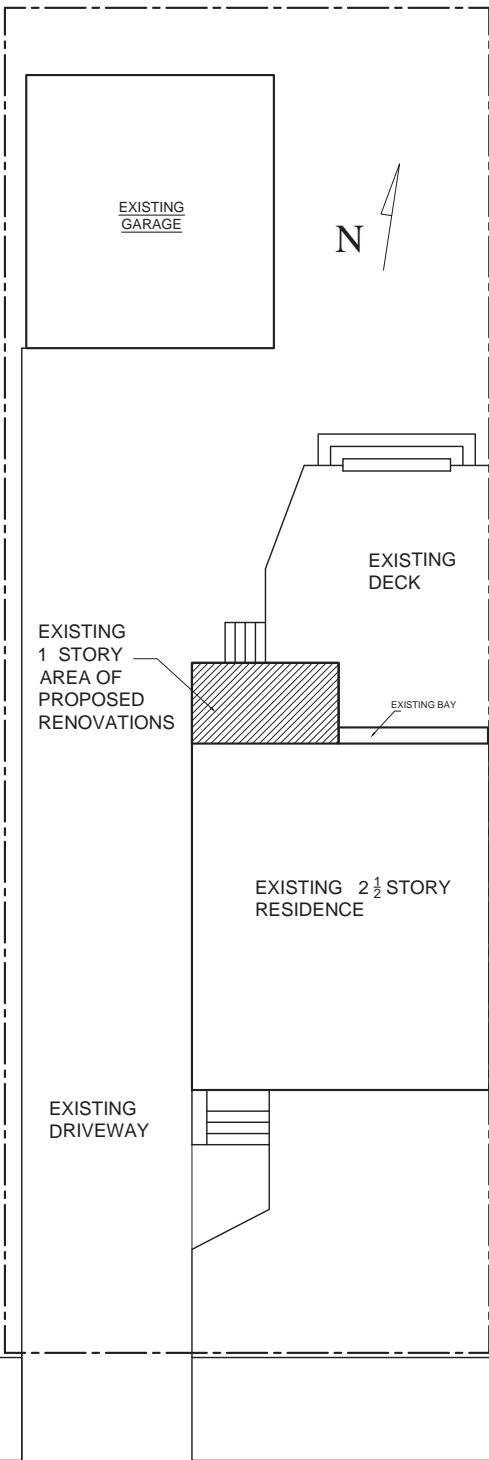
MAYFLOWER AVENUE

John P. Ferrantello
AUTHORIZED SIGNATURE PRES.

John P. Ferrantello, P. C.
LICENSED
LAND SURVEYOR
GARDEN CITY PARK, N. Y.
N. Y. S. LIC. NO. 45017

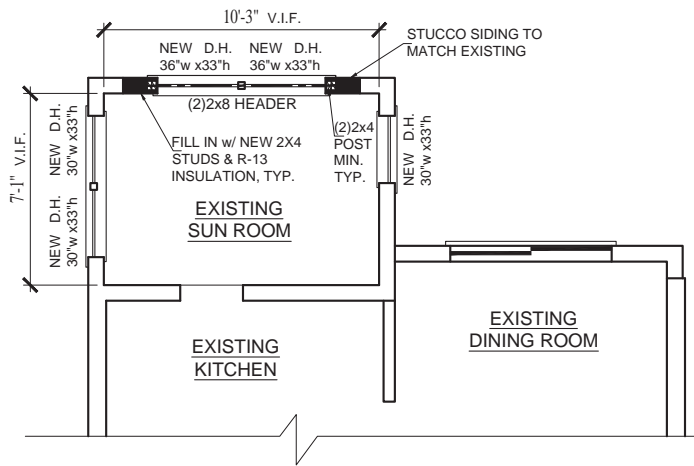
MAP OF PROPERTY
BLOCK AS SHOWN
LOT AS SHOWN
LOCATION FLORAL PARK, NASSAU COUNTY, NEW YORK
GUARANTEED ONLY TO THE TITLE GUARANTEE CO.
STEPHEN G. McKENNA & HELEN M. CROWLEY
SUNRISE FEDERAL SAVINGS & LOAN ASSOCIATION
DATE 4-1-82

NOT RESPONSIBLE FOR EASEMENTS AND SUB SURFACE CONDITIONS OTHER THAN SHOWN



SITE PLAN

SCALE: 1/8"=1'-0"



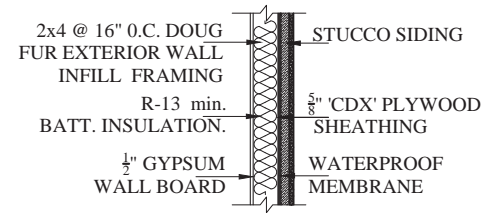
PARTIAL FIRST FLOOR PLAN SCALE: 1/4"=1'-0"

WINDOWS:

ALL NEW WINDOWS TO BE VINYL, DOUBLE GLASS, "LOW E" by "AMERICAN CRAFTSMAN" OR EQUAL VERIFIED IN FIELD AND INSTALLED WITHIN EXISTING OPENINGS SEAL ALL NEW INSTALLED WINDOWS WITH SPRAY FOAM INSULATION

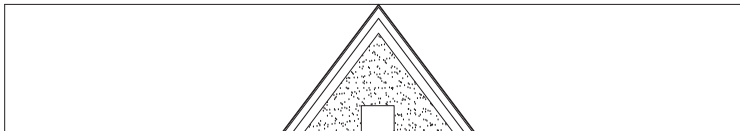
WALL SCHEDULE

- EXISTING TO REMAIN
- - - - - EXISTING TO BE DEMOLISHED
- NEW FRAME WALL
- - - - - LINES OF STRUCTURE ABOVE



TYPICAL EXTERIOR WALL INFILL DETAIL SCALE: 1/2"=1'-0"

TABLE R301.2(1) CLIMATE AND GEOGRAPHIC DESIGN CRITERA												
GROUND SNOW LOAD	WIND DESIGN			SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP.	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMPERATURE
	SPEED/MPH	SPEED/MPH	WIND-BORN DEBRIS ZONE		WEATHERING INDEX	FROST LINE DEPTH	TERMITE					
20 psf	120 mph	NO	NO	B	SEVERE	3'-0"	MODERATE TO HEAVY	NASSAU: 13	YES	ZONE X	496	52.9



MAYFAIR AVENUE
 SITE PLAN

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

EXISTING FACIA
 & TRIM
 TO BE REPAIRED &
 RE PAINTED

NEW WINDOWS
 within
 EXISTING OPENING.

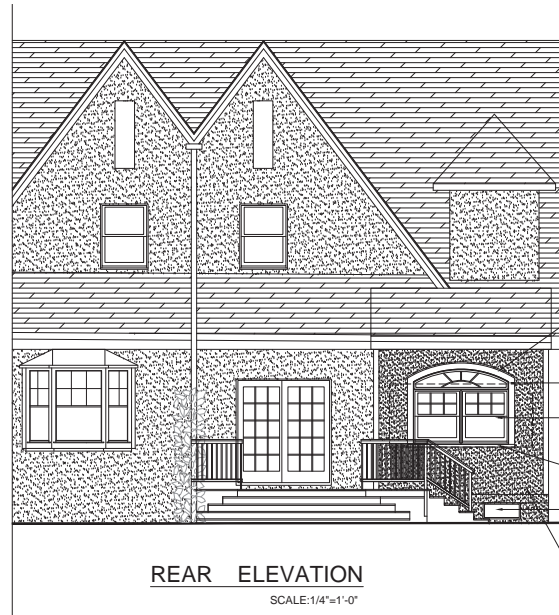
EXISTING STUCCO
 TO BE POWER
 WASHED & PAINTED
 WHITE

NEW BASEMENT
 WINDOWS within
 EXISTING OPENING.

EXISTING FACIA
 & TRIM TO BE
 REPAIRED &
 RE-PAINTED

RIGHT SIDE ELEVATION

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



1" FLAT HEADER
 TRIM TO MATCH
 EXISTING

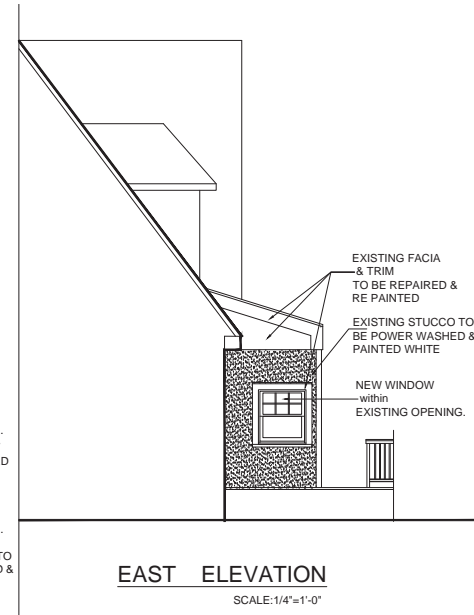
4 1/2" FLAT TRIM TO
 MATCH EXIST.
 NEW WINDOWS
 within
 EXISTING OPENING.
 EXISTING WINDOW
 SILL TO BE REPAIR
 & CUT TO SIZE

NEW BASEMENT
 WINDOW within
 EXISTING OPENING.

EXISTING STUCCO TO
 BE POWER WASHED &
 PAINTED WHITE

REAR ELEVATION

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



EXISTING FACIA
 & TRIM
 TO BE REPAIRED &
 RE PAINTED

EXISTING STUCCO TO
 BE POWER WASHED &
 PAINTED WHITE

NEW WINDOW
 within
 EXISTING OPENING.

EAST ELEVATION

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



WINDOWS TO BE VINYL,
DOUBLE GLASS, "LOW E"
BY "AMERICAN CRAFTSMAN"
OR EQUAL



WINDOW TRIM
& FACIA
BY "AZEK" OR EQUAL

MATERIAL at 89 MAYFAIR AVE.

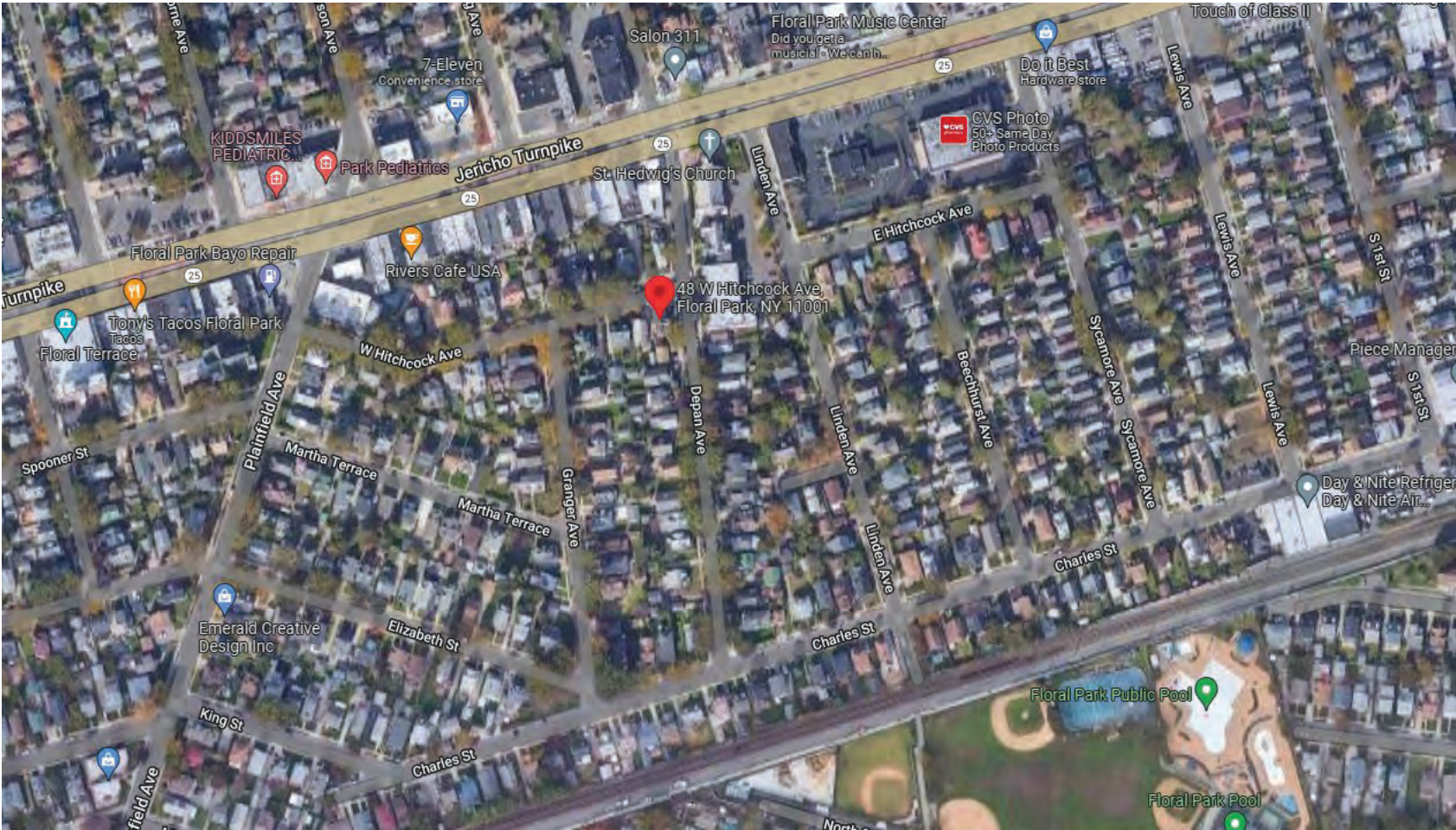
Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
3	8:10 p.m.	48	West Hitchcock Avenue	Proposed Rear Dormer to Existing Detached Garage	Ray Fabian	Gray Architectural Services



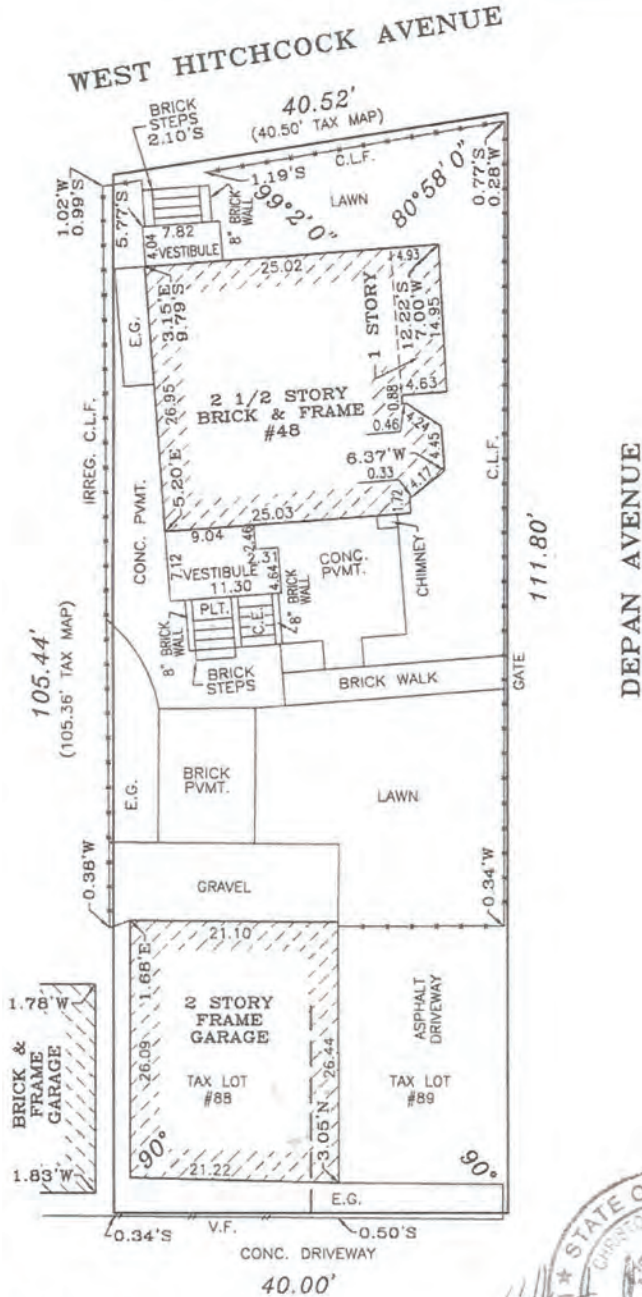
48 West Hitchcock Avenue (Side View)



48 West Hitchcock Avenue (Aerial View)



- LEGEND:
 A.C. — AIR CONDITIONER
 B.W. — BAY WINDOW
 C.E. — CELLAR ENTRANCE
 C.L.F. — CHAIN LINK FENCE
 CONC. — CONCRETE
 E.G. — EARTHEN GROUND
 M.F. — METAL FENCE
 O.H. — OVERHANG
 P.V.M.T. — PAVEMENT
 P.L.T. — PLATFORM
 R.O. — ROOF OVER
 V.F. — VINYL FENCE
 W.F. — WOOD FENCE



TOTAL LOT AREA IS 4344.5 S.F.
 TOTAL BUILDINGS FOOTPRINT IS 1328.7 S.F.
 BUILDINGS FOOTPRINT IS 30.7% OF LOT AREA
 FOR BUILDING DEPARTMENT USE ONLY



THE OFFSETS OR DIMENSIONS SHOWN FROM THE STRUCTURES TO THE PROPERTY LINES ARE FOR A SPECIFIC PURPOSE AND USE AND THEREFORE ARE NOT INTENDED TO GUIDE THE ERECTION OF FENCES, RETAINING WALLS, POOLS, PLANTING AREAS, ADDITIONS TO STRUCTURES AND ANY OTHER CONSTRUCTION.

THE EXISTENCE OF RIGHT OF WAYS AND/OR EASEMENTS OF RECORD, IF ANY, NOT SHOWN ARE NOT CERTIFIED.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

CERTIFICATION INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE ASSIGNEES OF THE LENDING INSTITUTION. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

PRECISION SURVEYS
 TITLE • ARCHITECTURAL • BOUNDARY • CONSTRUCTION
 40 FRANKLIN AVE. FRANKLIN SQUARE, N.Y. 11010
 Ph. • (718)472-1571 • (516)488-1608
CHRISTOPHER M. BUCKLEY
 PROFESSIONAL LAND SURVEYOR

SURVEY OF: Described Property
 LOCATED AT:
 48 West Hitchcock Avenue, Floral Park
 County of Nassau
 State of New York
 TAX DESIG: Sec. 32, Block 76, Lots 88,89

CERTIFIED TO:
 Raymond Fabian
 DATE: August 12, 2022
 SCALE: 1"=15'

Job No. 50066
 Drawn By: TW



GARAGE FRONT



GARAGE RIGHT SIDE



GARAGE REAR



DWELLING



GRAY ARCHITECTURAL
SERVICES, P.C.
2401 CAPRI PL. N. BELLMORE, N.Y. 11710
516 679-4722 FAX 516 679-2698
grayarchserv@verizon.net

FABIAN RESIDENCE
48 W HITCHCOCK AVE
FLORAL PARK, NY 11001

PHOTOS

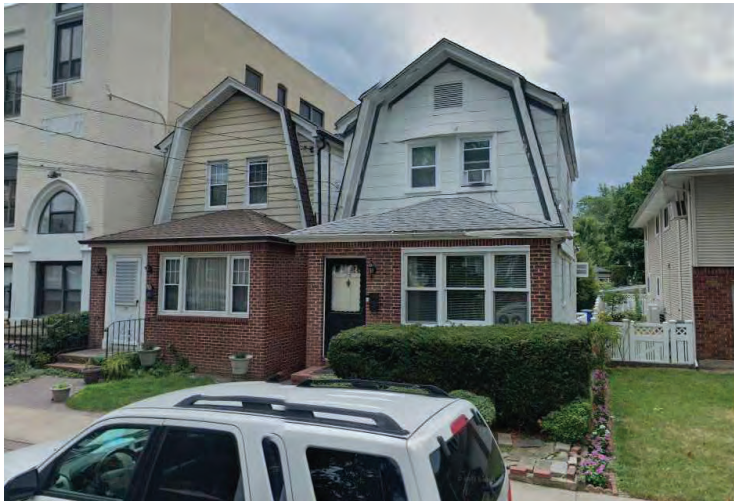
1
1-10-23



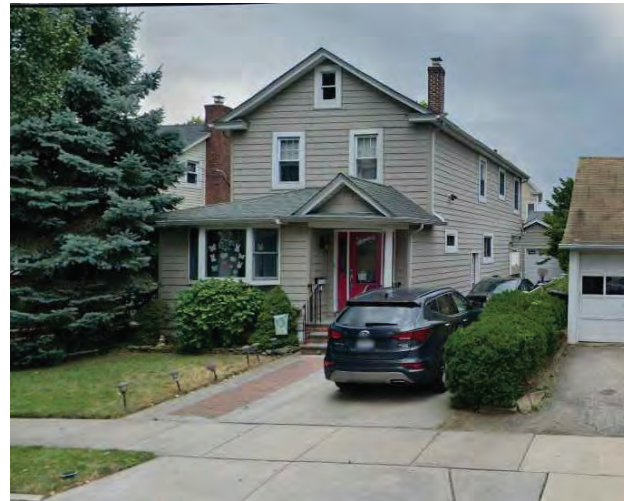
51 W HITCHCOCK AVE



8 LINDEN AVE



13 & 15 DEPAN AVE



16 DEPAN AVE



GRAY ARCHITECTURAL
SERVICES, P.C.
2401 CAPRI PL. N. BELLMORE, N.Y. 11710
516 679-4722 FAX 516 679-2698
grayarchserv@verizon.net

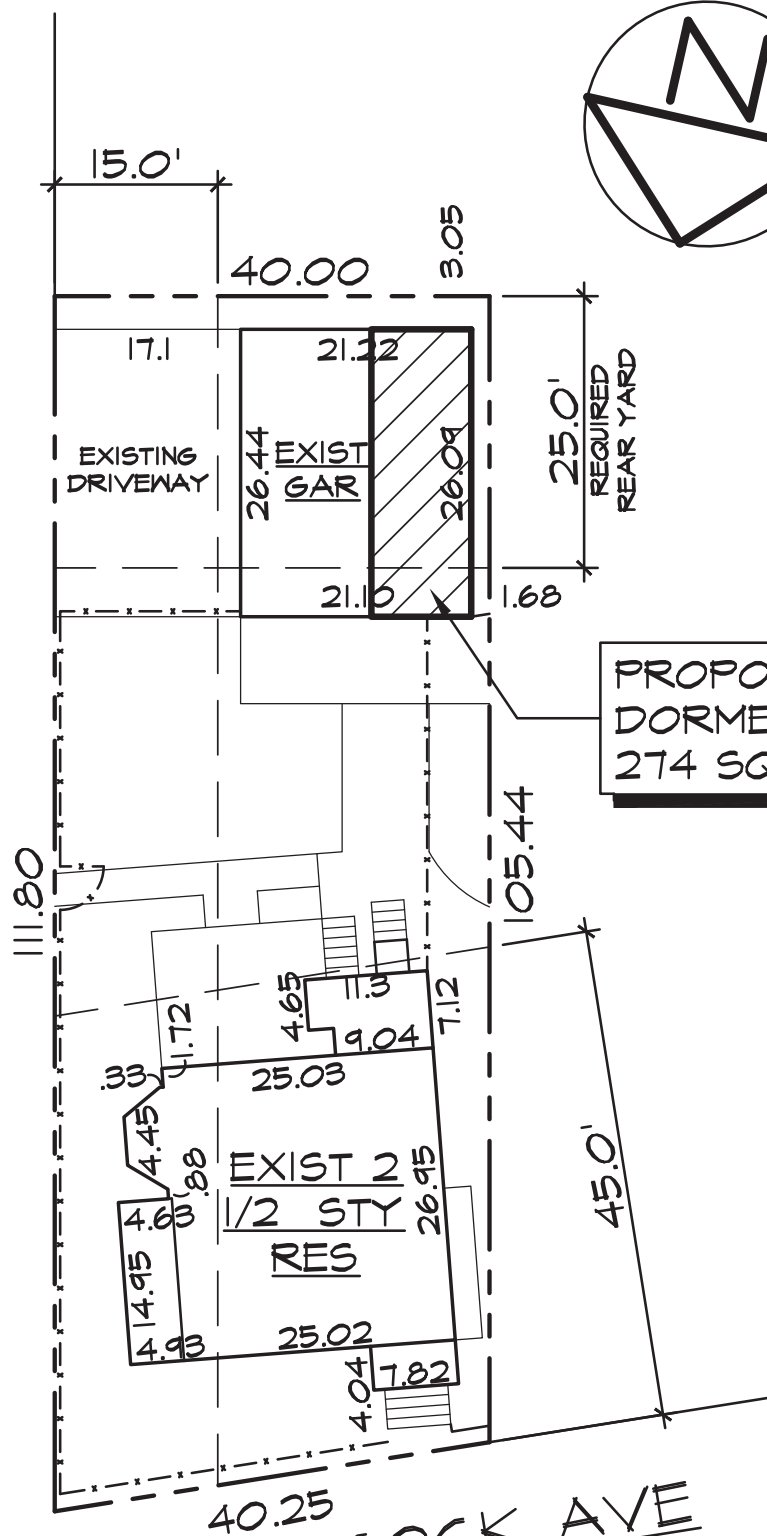
FABIAN RESIDENCE
48 W HITCHCOCK AVE
FLORAL PARK, NY 11001

PHOTOS

2

1-10-23

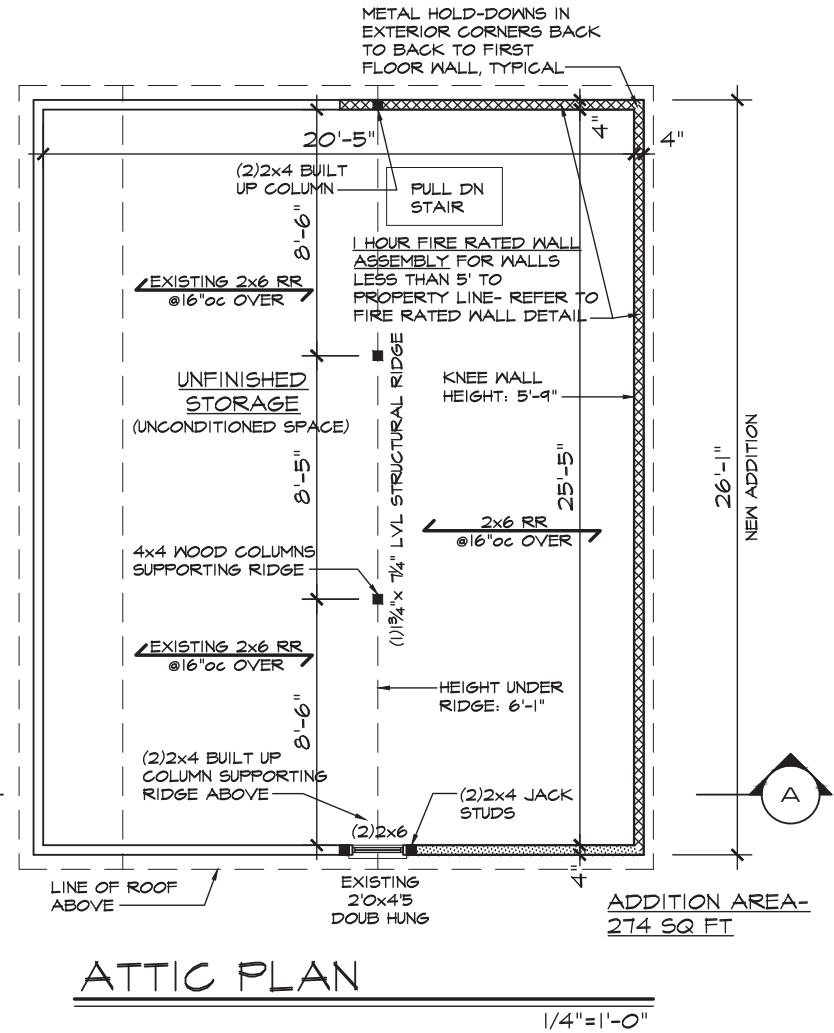
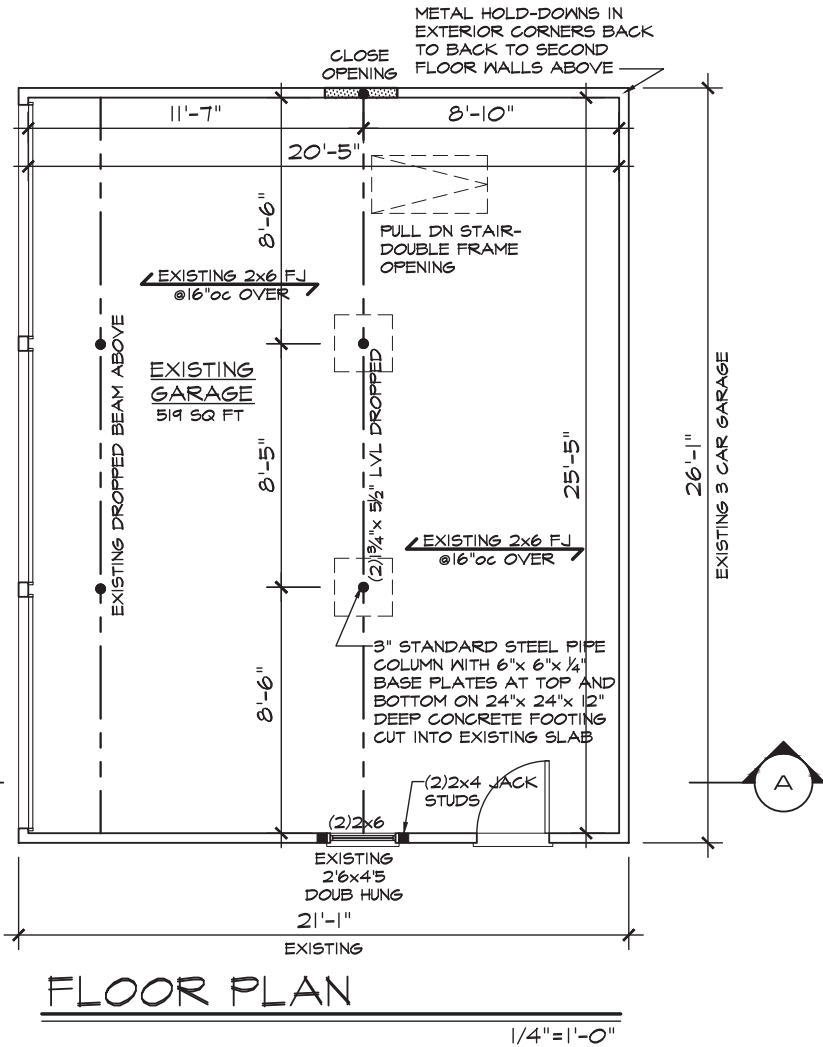
DEPAN AVE



WEST HITCHCOCK AVE

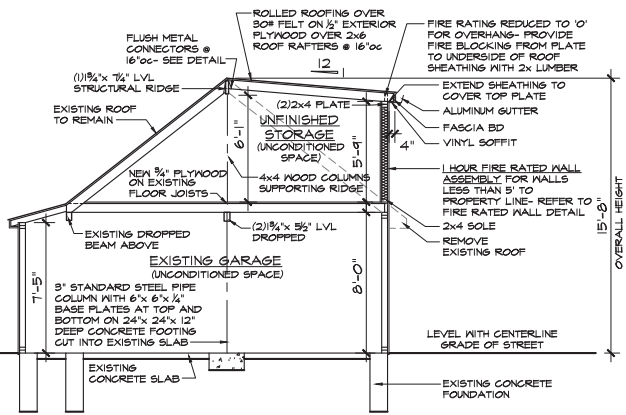
PLOT PLAN

1" = 20.0'

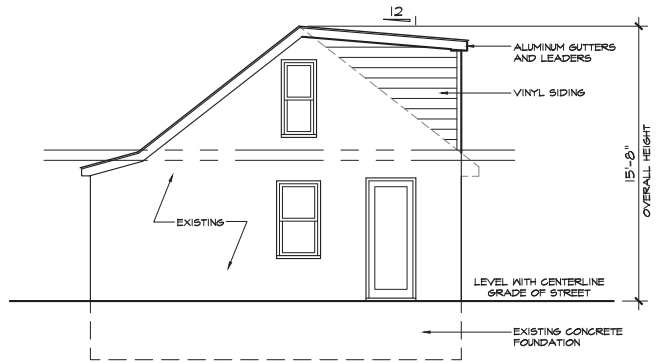


WALL LEGEND

- EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- ▨ NEW FRAME WALL
- ▩ NEW 1 HOUR FIRE RATED

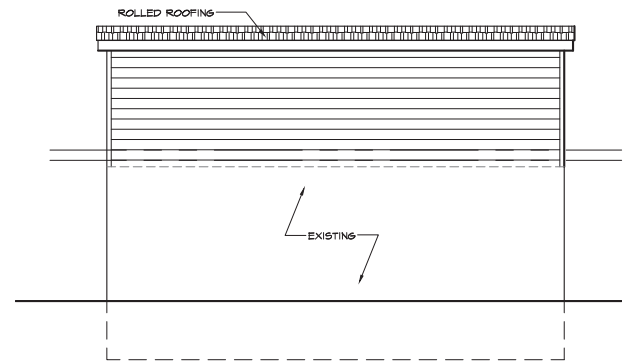


SECTION 'A-A'
 REFER TO WIND CONNECTION DETAIL FOR METAL CONNECTORS
 1/4" = 1'-0"



RIGHT SIDE ELEVATION
 1/4" = 1'-0"

EXTERIOR FINISHES- TO MATCH EXISTING DWELLING		
ROOF SHINGLES	ARCHITECTURAL ASPHALT	SLATE
SIDING	VINYL	SANDY BROWN
FASCIA TRIM	ALUMINUM	WHITE
GUTTERS & LEADERS	ALUMINUM	WHITE
WINDOWS	VINYL	WHITE
DOORS		WHITE



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

VILLAGE OF FLORAL PARK ZONING	
SECTION	32
BLOCK	76
LOT	88
ZONE	R-2
PERMITTED USE	
SINGLE FAMILY DETACHED DWELLING	

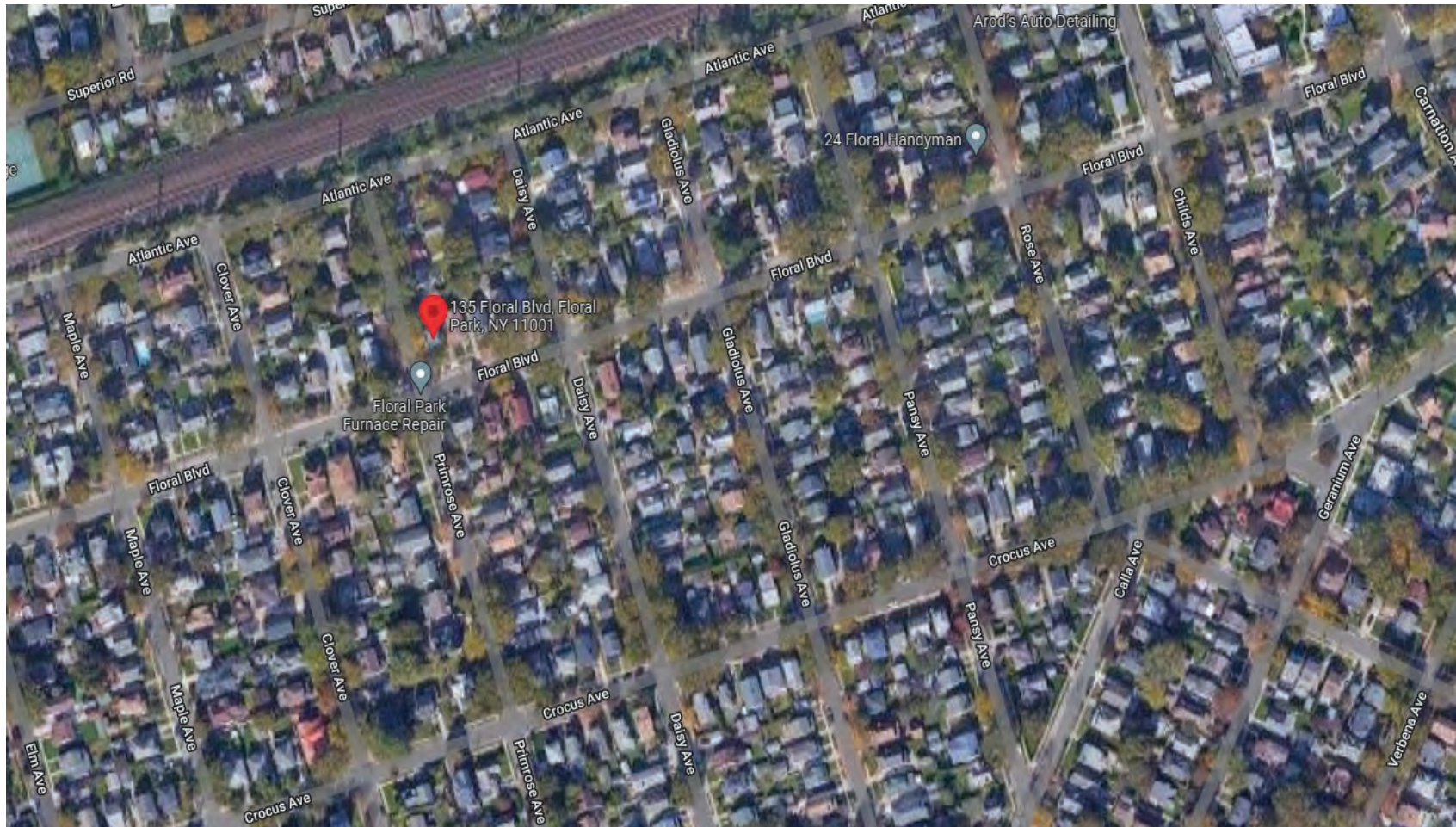
Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
4	8:15 p.m.	135	Floral Boulevard	New Garage	Bill Handy	Bobby K Architects



135 Floral Boulevard (Side View)

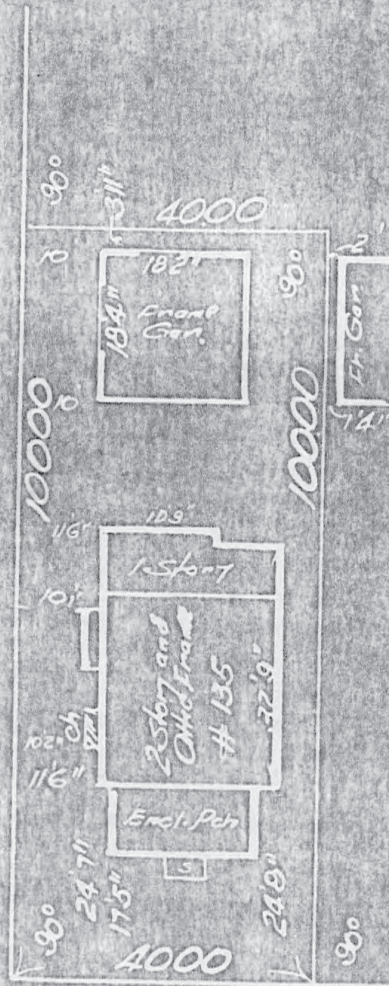


135 Floral Boulevard (Aerial View)



PRIMROSE AVE.

PRIMROSE AVE.



FLORAL

BLVD.

LOT NOS REFER TO MAP OF

GUARANTEED TO

The Inter County Title Guar. & Mort. Co
The Floral Park Federal Sav & Loan Assn

SURVEYED *March 9, 1944*

William H. Parry INC
U. S. STANDARD

WILLIAM H. PARRY, INC
CIVIL ENGINEERS, CITY SURVEYORS
161-10 JAMAICA AVENUE
JAMAICA, N. Y. C.

FLORAL PARK
NASSAU COUNTY, N. Y.

B75

35150

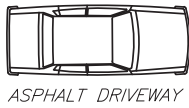
FLORAL BOULEVARD

DROP CURB

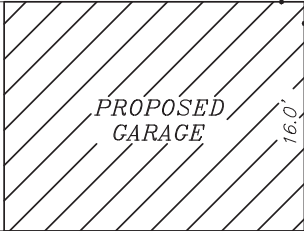
CONCRETE CURB

LAWN

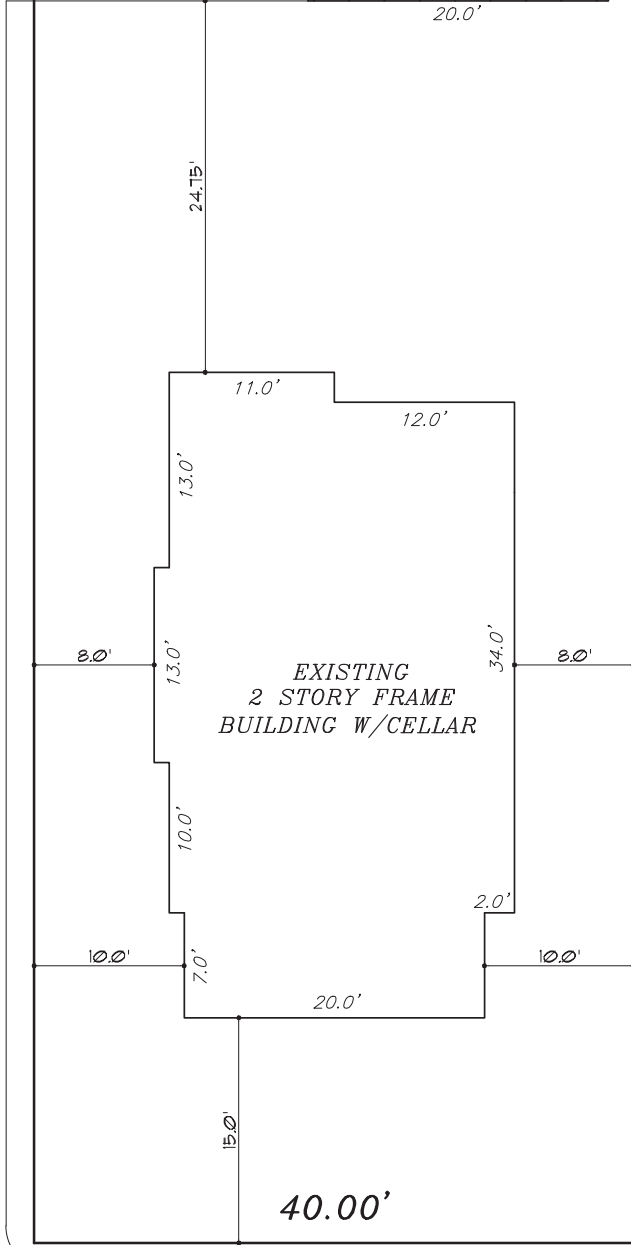
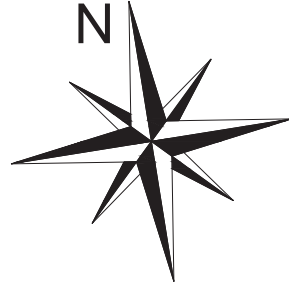
CONCRETE SIDEWALK



ASPHALT DRIVEWAY



PROPOSED GARAGE



EXISTING
2 STORY FRAME
BUILDING W/CELLAR

40.00'

100.00'

20.0'

24.75'

20.0'

2.0'

2.0'

16.0'

11.0'

12.0'

13.0'

8.0'

13.0'

34.0'

8.0'

10.0'

10.0'

7.0'

2.0'

10.0'

20.0'

CONCRETE SIDEWALK

LAWN

CONCRETE CURB

FLORAL BOULEVARD

1 SITE PLAN
SCALE: 1/16" = 1'-0"



ROOF NOTE AS PER R905.2.1.

-APPLY A MINIMUM 18" WIDE (483mm) STRIP OF UNDERLAYMENT FELT PARALLEL WITH AND STARTING AT THE EAVES.
 -STARTING AT THE EAVE, APPLY 36" WIDE (914mm) SHEETS OF UNDERLAYMENT OVERLAPPING SUCCESSIVE SHEETS BY 18" (457mm). DISTORTIONS IN THE UNDERLAYMENT SHALL NOT INTERFERE WITH THE ABILITY OF THE SHINGLES TO SEAL.
 -END LAPS SHALL BE OFFSET BY 6"-0".
 -CORROSION-RESISTANT FASTENERS ARE TO BE APPLIED ALONG THE OVERLAP AT A MAXIMUM SPACING OF 36" ON CENTER.

NOTE:

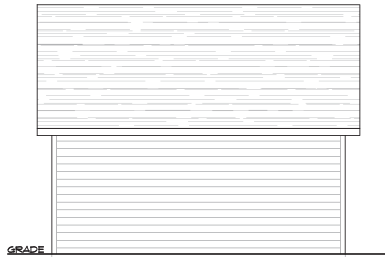
PROVIDE ICE AND WATER SHIELD BY "QUEENS-CORNING" AT ALL ROOF EAVES, EXTENDING IN FRONT EAVES EDGE TO A POINT 24" FROM THE INSIDE FACE OF THE EXTERIOR WALL.
 PROVIDE 20 GA. ALUMINUM FLASHING AT ROOF / WALL JUNCTURE, 12" MIN. EACH WAY, TYPICAL.

NOTE:

CONTRACTOR TO SUPPLY AND INSTALL ALL NEW ALUMINUM GUTTERS AND LEADERS FOR ENTIRE HOUSE. LEADERS WILL BE LOCATED IN FIELD BY OWNER / ARCHITECT

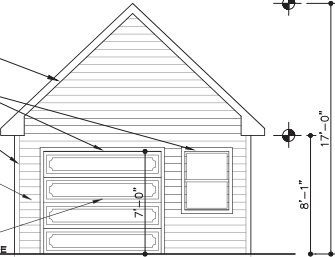
NOTE:

PROVIDE ICE AND WATER SHIELD BY "QUEENS-CORNING" AT ALL ROOF EAVES, EXTENDING IN FRONT EAVES EDGE TO A POINT 24" FROM THE INSIDE FACE OF THE EXTERIOR WALL.

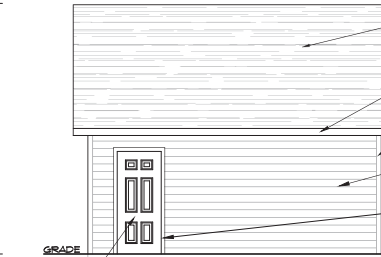


A LEFT ELEVATION
SCALE: 1/4" = 1'-0"

- 6" ALUMINUM WRAPPED WOOD TRIM, COLOR: WHITE
- 4" VINYL WINDOW/DOOR TRIM, COLOR: WHITE
- 4" VINYL CORNER TRIM, TYPICAL, COLOR: WHITE
- 6" VINYL CLASPBOARD SIDING, COLOR: TERRA COTTA (CERTAINTED)
- NEW VINYL INSULATED GARAGE DOOR, COLOR: WHITE

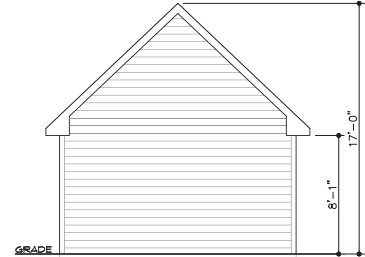


B FRONT ELEVATION
SCALE: 1/4" = 1'-0"

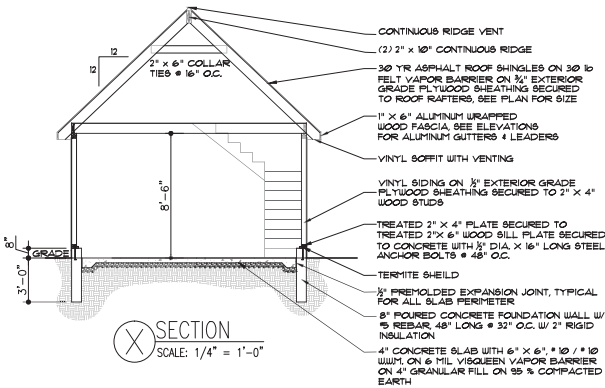


C RIGHT ELEVATION
SCALE: 1/4" = 1'-0"

- GAF ASPHALT ROOF SHINGLES, ARCHITECTURAL STYLE, COLOR: CHARCOAL
- 6" ALUMINUM WRAPPED FASCIA, COLOR: WHITE
- 4" VINYL CORNER TRIM, TYPICAL, COLOR: WHITE
- 6" VINYL CLASPBOARD SIDING, COLOR: TERRA COTTA (CERTAINTED)
- 4" VINYL DOOR TRIM, COLOR: WHITE

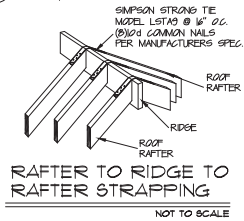


D REAR ELEVATION
SCALE: 1/4" = 1'-0"

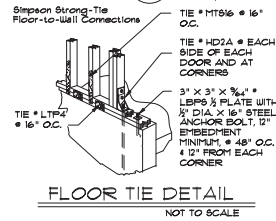


X SECTION
SCALE: 1/4" = 1'-0"

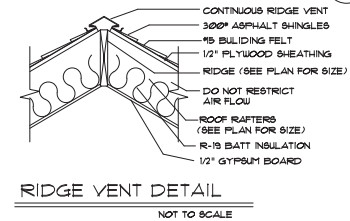
- CONTINUOUS RIDGE VENT (2) 2" x 10" CONTINUOUS RIDGE
- 30 YR ASPHALT ROOF SHINGLES ON 30 lb FELT VAPOR BARRIER ON 3/4" EXTERIOR GRADE PLYWOOD SHEATHING SECURED TO ROOF RAFTERS, SEE PLAN FOR SIZE
- 1" x 6" ALUMINUM WRAPPED WOOD FASCIA, SEE ELEVATIONS FOR ALUMINUM GUTTERS & LEADERS
- VINYL SOFFIT WITH VENTING
- VINYL SIDING ON 1/2" EXTERIOR GRADE PLYWOOD SHEATHING SECURED TO 2" x 4" WOOD STUDS
- TREATED 2" x 4" PLATE SECURED TO TREATED 2" x 6" WOOD BILL PLATE SECURED TO CONCRETE WITH 1/2" DIA. x 16" LONG STEEL ANCHOR BOLTS @ 48" O.C.
- TERMITE SHIELD
- 1/2" PREMOLDED EXPANSION JOINT, TYPICAL FOR ALL SLAB PERIMETER
- 8" POURED CONCRETE FOUNDATION WALL W/ 1% REBAR, 48" LONG @ 32" O.C. W/ 2" RIGID INSULATION
- 4" CONCRETE SLAB WITH 6" x 6" x 10" / 10 W/M, ON 6" MIL. VISQUEEN VAPOR BARRIER ON 4" GRANULAR FILL ON 85% COMPACTED EARTH



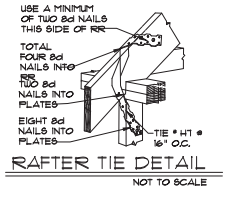
RAFTER TO RIDGE TO RAFTER STRAPPING
NOT TO SCALE



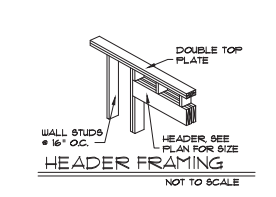
FLOOR TIE DETAIL
NOT TO SCALE



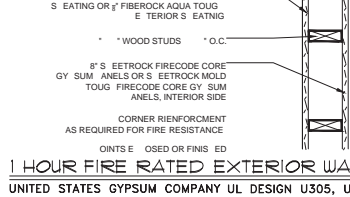
RIDGE VENT DETAIL
NOT TO SCALE



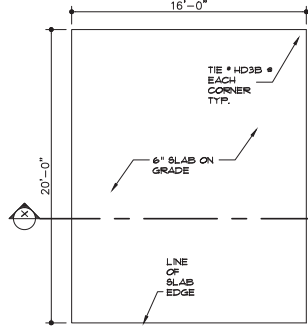
RAFTER TIE DETAIL
NOT TO SCALE



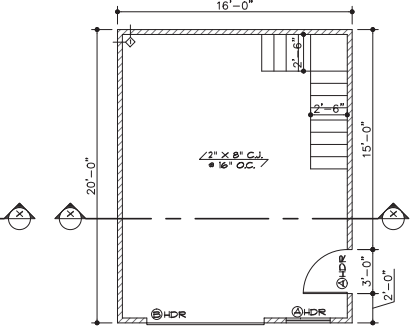
HEADER FRAMING
NOT TO SCALE



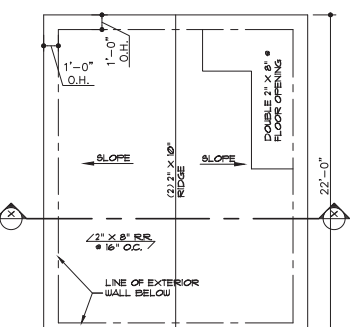
1 HOUR FIRE RATED EXTERIOR WALL
UNITED STATES GYPSUM COMPANY UL DESIGN U305, U314



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



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



3 ROOF PLAN
SCALE: 1/4" = 1'-0"

CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION
(Symbol)	EXISTING CONSTRUCTION TO BE DEMOLISHED
(Symbol)	EXISTING CONSTRUCTION TO REMAIN
(Symbol)	NEW CONSTRUCTION
(Symbol)	1 HOUR FIRE RATED PARTITION & ASSEMBLY
(Symbol)	INTERIOR PERIMETER NEW WALL 1/2" GYPSUM OVER 2x4" WOOD STUD, W/ 5/8" BATT INSULATION

HEADER SCHEDULE

TYPE	OPERATION	MATERIAL	HEADER LENGTH
A	(2) 2" x 10"	WOOD	3'-8"
B	(2) 2" x 10"	WOOD	8'-8"

NOTE:
 CONTRACTOR TO SUPPLY AND INSTALL ALL DOOR HARDWARE SELECTED BY OWNER + 15.00 PER DOOR ALLOWANCE
 ALL EXTERIOR DOORS TO BE INSULATED + WEATHERSTRIPPED
 NOTE:
 INSTALL SADDLES AND/OR TRANSITION STRIPS AT ALL CHANGES IN FLOOR MATERIAL. LOCATE CENTERED IN DOOR SUCH THAT WHEN DOOR IS CLOSED, MATERIAL ON OPPOSITE SIDE CAN NOT BE SEEN



NO.	DATE	ISSUES/REVISIONS
02	1/12/23	ISSUE FOR ARB
01	12/19/22	ISSUE TO CLIENT

Bobby K
Architects
NEW YORK

COMMERCIAL RESIDENTIAL PLANNING COMPOSITE INTERIOR DESIGN
 67 HURON ROAD, BELLEROUSE VILLAGE NY 11001
 516.375.1473 Fax 516.375.1473
 robert@bobbykarchitect.com
 www.bobbykarchitect.com

DWG. TITLE
GARAGE COMPOSITE DRAWING

JOB NO.	DATE	PROJ. DIR.
2020-18	08/26/20	T.S.

DRAWN BY	CHK. BY	SCALE
A.B.	R.K.	SEE DRAWING

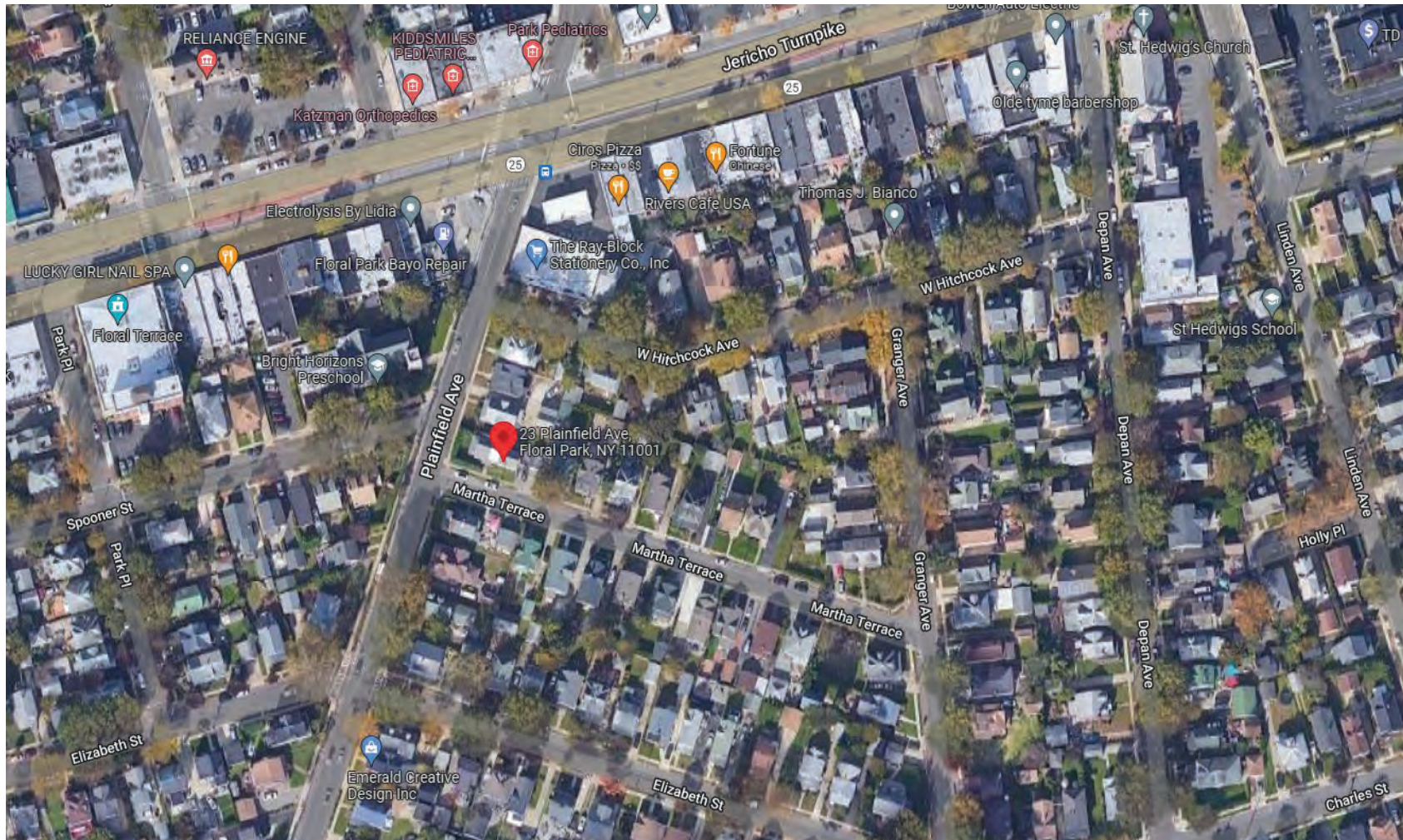
A.001

HANDY RESIDENCE
 135 FLORAL BOULEVARD
 FLORAL PARK, NEW YORK, 11001

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
5	8:20 p.m.	23	Plainfield Avenue	Solar Panels	Mario Esuebio	Trinity Solar



23 Plainfield Avenue (Aerial View)







NS-1

Trinity[®]
SOLAR
877.SUN.SAVES

US DOT #02081031
NASSAU CTY HIC#12409780000
SUFFOLK CTY HIC#1-52821









USDOT#02081031
NASSAU CTY HIC#1249780000
SUFFOLK CTY HIC#1-52821









23

Trinity
SOLAR
877-5UNSAVES

LEAD FREEDOM
NEW CT REGULATION
SUPPORT HERE-2021

SENTRA SR
XLW-K92

6XS-8076

HONDA
CR-V
JLA-2004



GVS-8016

HONDA
CRV
JLA-2004

SENTRA



23

25 Plainfield Avenue Sec 32 Block 71 Lots 7 & 8

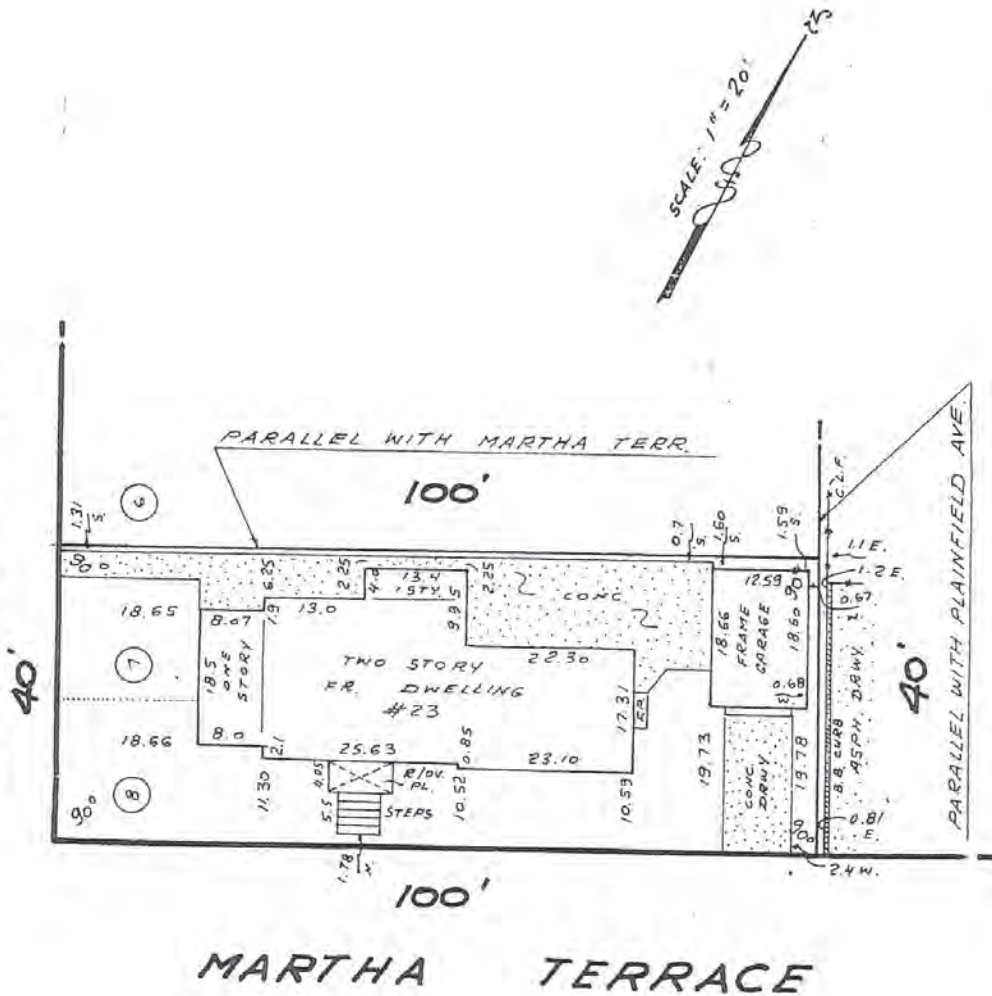
LEGEND

	FENCE		ON LINE		OV OVER
	HEDGE		SHRUBS		

TITLE No. SBAP 21624 N

Unauthorized alterations or additions to this survey is a violation of Sec. 7209 of the N.Y.S. Education Law. Copies of this survey not bearing the Surveyor's Inked or Embossed Seal shall not be considered to be a valid true copy. Survey's are intended for title purposes only. Offices of building and other possessions are not to be used for construction or design purposes.

PLAINFIELD AVE.



Survey of Property at FLORAL PARK
 Guaranteed to: * STEWART TITLE INS. CO.
 * MICHAEL VIAS & HELEN VIAS

Surveyed 11.07.2002
 By Peter J. Brabazon
 P.L.S.

Lots 7, 8 Block _____
 Map OF HENRY MARTIN
 Sec. _____ Filed 06.24.1914 Case# 1491 Co. of NASSAU N.Y.

PETER J. BRABAZON
 Professional Land Surveyor
 Successor To:
 KENNETH S. O'BRIEN

NEW YORK CITY OFFICE
 33-50 157TH STREET
 FLUSHING, NY 11354
 PHONE (718) 767-5111
 FAX (516) 799-6418

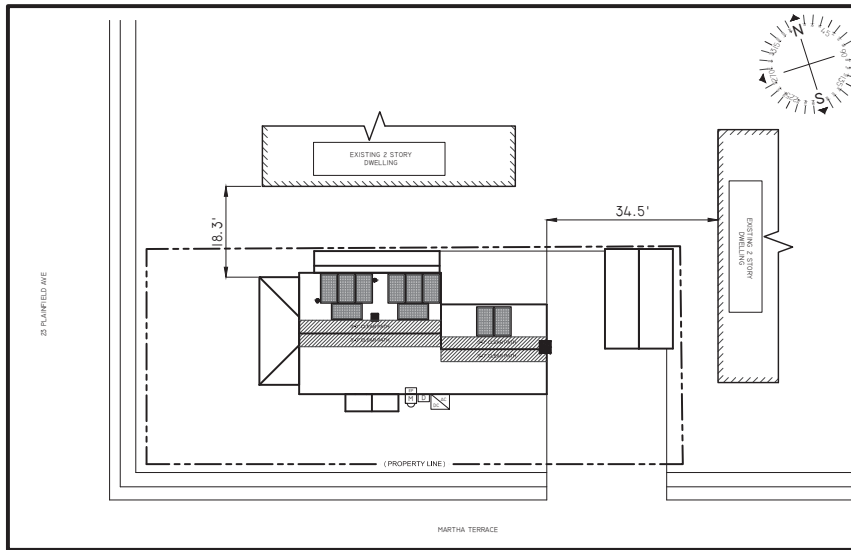
NASSAU-SUFFOLK OFFICE
 689 BROADWAY
 MASSAPEQUA, NY 11758
 PHONE (516) 799-6066
 FAX (516) 799-6418

Successor To:
 KENNETH S. O'BRIEN
 WILLIAM S. ALCH
 JULIUS E. JARGSTORFF
 ROBERT D. JONES, JR. (NASSAU)
 ALBERT L. LOEFFLER
 C.A. MONROE
 PETER L. PFLEIDERER, JR.
 JEFFREY J. ROBERTSON
 H.A. SCHMIELAU

THE BABYLON RECORDS & SURVEYS OF
 THE GEORGE H. WALBRIDGE CO.

INSTALLATION OF NEW ROOF MOUNTED PV SOLAR SYSTEM

23 PLAINFIELD AVENUE
FLORAL PARK, NY 11001



VICINITY MAP
SCALE: NTS

SATELLITE VIEW

LOT DIAGRAM
SCALE: 1"=50'

- 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 INSTRUCTIONS 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 FUSES 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 BY THE MANUFACTURE 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 ELECTRIC 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.
 8. & 8. THE DC VOLTAGE FROM THE PANELS IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING

- GENERAL NOTES CONTINUED**
8. 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 ELECTRIC CODE ARTICLE 690.
 10. PRIOR TO THE INSTALLATION OF THIS PHOTOVOLTAIC SYSTEM, THE INSTALLATION CONTRACTOR SHALL ATTEND A PRE-INSTALLATION 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 INVERTER 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
 - 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. ONCE APPROVED, THE INSTALLATION CONTRACTOR IS

- GENERAL NOTES CONTINUED**
15. RESPONSIBLE FOR INSTALLING ALL SYSTEM COMPONENTS AS DESCRIBED IN THE DRAWING PACKAGE.
 16. ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.
- NOTES**
1. PV INSTALLATION TO COMPLY WITH ARTICLE 690 OF THE NEC.
 2. PV INSTALLATION TO COMPLY WITH NYSERDA REQUIREMENTS.
 3. PV INSTALLATION TO COMPLY WITH NEW YORK STAT STANDARDIZED INTERCONNECTION REQUIREMENTS.
 4. AC 28-104.7 THERE IS NO TREE, UTILITY LINE OR ANY OTHER POTENTIAL HAZARD THAT COULD COME INTO CONTACT WITH ANY PART OF THE SOLAR ELECTRIC GENERATING SYSTEM.

TENANT SAFETY NOTES

1. CONSTRUCTION WORK WILL BE CONFINED TO THE ROOF / OUTSIDE & WILL NOT CREATE DUST, DIRT OR OTHER INCONVENIENCES TO NEIGHBORING PROPERTIES OR APARTMENT UNITS WITHIN THE BUILDING.
2. CONSTRUCTION WORK WILL NOT BLOCK HALLWAYS OR MEANS OF EGRESS FOR NEIGHBORING PROPERTIES OR TENANTS OF THE BUILDING.
3. CONSTRUCTION WORK WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER OR ELECTRIC SERVICES TO NEIGHBORING PROPERTIES OR TENANTS OF THE BUILDING.
4. CONSTRUCTION WORK WILL BE CONFINED TO NORMAL WORKING HOURS, 8AM - 5PM MONDAY THRU FRIDAY EXCEPT LEGAL HOLIDAYS.

TENANT PROTECTION PLAN

SPECIAL PRECAUTION SHALL BE TAKEN BY THE CONTRACTOR SO THAT EQUIPMENT ON THIS APPLICATION AND ITS INSTALLATION WILL NOT AFFECT THE FOLLOWING:

- A. TENANT EGRESS TO AND FROM THE BUILDING.
- B. FIRE SAFETY, OR CREATE A FIRE HAZARD.
- C. STRUCTURAL SAFETY OF THE BUILDING
- D. ACCUMULATION OF DUST. THE CONTRACTOR SHALL LEAVE THE WORK SITE BROOM CLEAN EACH DAY. IN THE EVENT THAT ASBESTOS IS FOUND ON THE JOBSITE, ITS REMOVAL SHALL TAKE PLACE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS OF O.S.H.A SECTION 1901.1, INCLUDING STAT AND FEDERAL DUMPING GROUNDS
- E. THERE SHALL BE NO CREATION OF NOISE OUTSIDE THE NORMAL HOURS OF 8AM TO 5PM MONDAY THRU FRIDAY EXCEPT LEGAL HOLIDAYS

ABBREVIATIONS

- AMP AMPERE
- AC ALTERNATING CURRENT
- AL ALUMINUM
- AF AMP. FRAME
- AFG 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
- OCF OVER CURRENT PROTECTION
- P POLE
- PB PULL BOX
- PH ∅ PHASE
- PVC POLY-VINYL CHLORIDE CONDUIT
- PWR POWER
- QTY QUANTITY
- RGS RIGID GALVANIZED STEEL
- SN SOLID NEUTRAL
- JSWB SWITCHBOARD
- TYP TYPICAL
- U.O.L. UNLESS OTHERWISE INDICATED
- WP WEATHERPROOF
- XFMR TRANSFORMER
- #72 MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE

DRAWING INDEX

- 1, T-001.00 - COVER SHEET
- 2, T-002.00 - CLIMATIC & GEOGRAPHICAL CHART
- 3, S-001.00 - ROOF LAYOUT
- 4, S-002.00 - ELEVATION DETAILS
- 5, S-003.00 - ELEVATION DETAILS
- 6, E-001.00 - ELECTRICAL 3 LINE DIAGRAM APP DRAWING APPENDIX



Issued / Revisions		
R1	LAYOUT REVISION	1/4/2023
R2	MODULES RELOCATION	11/9/2022
R3	SYSTEM SIZE DECREASE / LAYOUT REVISION / TRENCH	09/26/2022
PL	ISSUED TO TOWNSHIP FOR PERMIT	8/1/2022
NO.	DESCRIPTION	DATE

Project Title:
EUSEBIO, MARIO-
TRINITY ACCT #: 2022-06-725823

Project Address:
23 PLAINFIELD AVENUE
FLORAL PARK, NY 11001
40.728524,-73.699998

Drawing Title:
COVER SHEET

Drawing Information

DRAWING DATE:	8/1/2022
DRAWN BY:	KTD
REVISED BY:	DMR

System Information:

DC SYSTEM SIZE:	4kW
AC SYSTEM SIZE:	3kW
MODULE USED:	HANWHWA 400
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.a+ 400
UTILITY COMPANY:	PSEG-LI
UTILITY ACCT #:	5157277503
UTILITY METER #:	80509444
DEAL TYPE:	SUNNOVA

DWG No:
T-001.00
PAGE: 1 OF 6

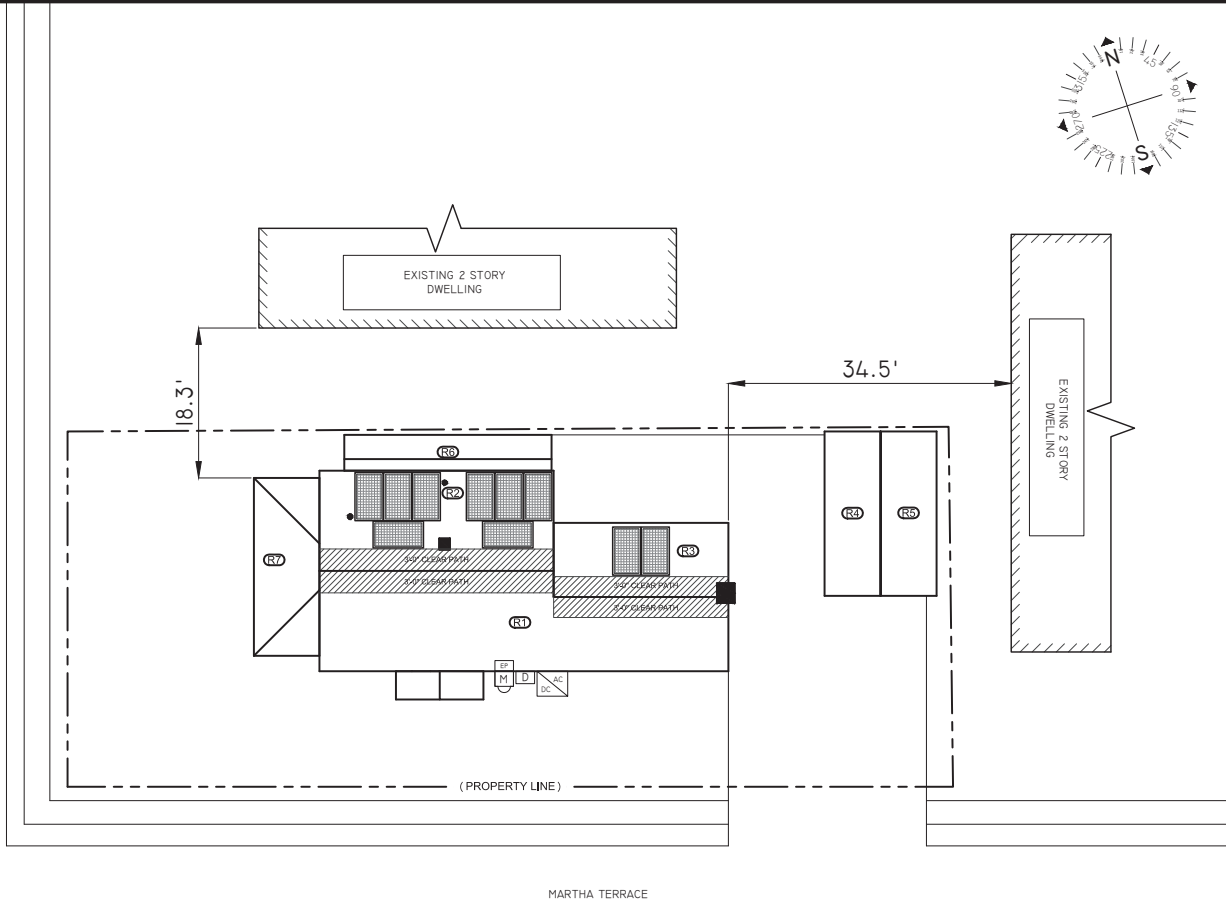


SIZE OF EXISTING RAFTER: 2" x 6"
 RAFTER SPACING: 16" o.c.
 ROOF PITCH R2: 34° (1 ASPHALT SHINGLE)
 ROOF PITCH R3: 34° (1 ASPHALT SHINGLE)
 ADDITIONAL SUPPORT PROVIDED: N/A
 THE EXISTING ROOF RAFTERS AT THIS RESIDENCE CAN ADEQUATELY SUPPORT THE PROPOSED SOLAR PV PANEL ASSEMBLY (4.3 LBS. PSF) AND THE SNOW LOADS (16 LBS. PSF). IN ADDITION, THE 3" STAINLESS STEEL LAG SCREWS INSTALLED AT 4" o.c. MEET THE UPLIFT REQUIREMENTS OF A SCREW MINIMUM PER ASSEMBLY. 6 SCREWS ARE PROVIDED, THIS INSTALLATION MEETS THE REQUIREMENTS OF THE RESIDENTIAL CODE OF NEW YORK STATE AND HAS BEEN FOUND TO BE ACCEPTABLE BY MY OFFICE.

ARRAY SCHEDULE

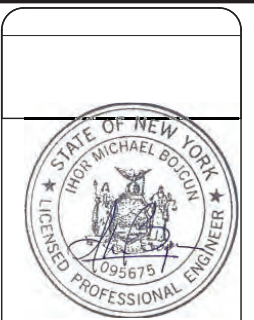
- ROOF 1
MODULES: 0
PITCH: 34°
ORIENTATION: 198°
- ROOF 2
MODULES: 8
PITCH: 34°
ORIENTATION: 18°
- ROOF 3
MODULES: 2
PITCH: 34°
ORIENTATION: 18°
- ROOF 4
MODULES: 0
PITCH: 34°
ORIENTATION: 288°
- ROOF 5
MODULES: 0
PITCH: 34°
ORIENTATION: 108°
- ROOF 6
MODULES: 0
PITCH: 18°
ORIENTATION: 18°
- ROOF 7
MODULES: 0
PITCH: 18°
ORIENTATION: 288°

- 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.



SYMBOL LEGEND	
	INDICATES ROOF DESIGNATION - REFER TO ARRAY SCHEDULE FOR MORE INFORMATION
	INDICATES EXISTING METER LOCATION
	INDICATES EXISTING ELECTRICAL PANEL LOCATION - IN BASEMENT
	INDICATES NEW FUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)
	INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)
	INDICATES NEW PV SOLAR MODULE. RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS, REFER TO EQUIPMENT SCHEDULE FOR SPECS.
	INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.
	INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS.
	INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED
	INDICATES NEW DC DISCONNECT
	INDICATES EXISTING SERVICE DISCONNECT
	INDICATES EXISTING TRANSFER SWITCH

EQUIPMENT SCHEDULE	
QTY	SPEC #
10	HANWHA 400 (Q,PEAK DUO BLK ML-G10.4+ 400)
1	SE3000H-US05H8NC4



Issued / Revisions		
R1	LAYOUT REVISION	1/4/2021
R2	MODULES RELOCATION	11/9/2022
R3	SYSTEM SIZE DECREASE / LAYOUT REVISION / TRENCH	09/26/2022
PE	ISSUED TO TOWNSHIP FOR PERMIT	8/1/2022
NO.	DESCRIPTION	DATE

Project Title:
 EUSEBIO, MARIO-
 TRINITY ACCT #: 2022-06-725823

Project Address:
 23 PLAINFIELD AVENUE
 FLORAL PARK, NY 11001
 40.728524,-73.699998

Drawing Title:
 PROPOSED PV SOLAR SYSTEM

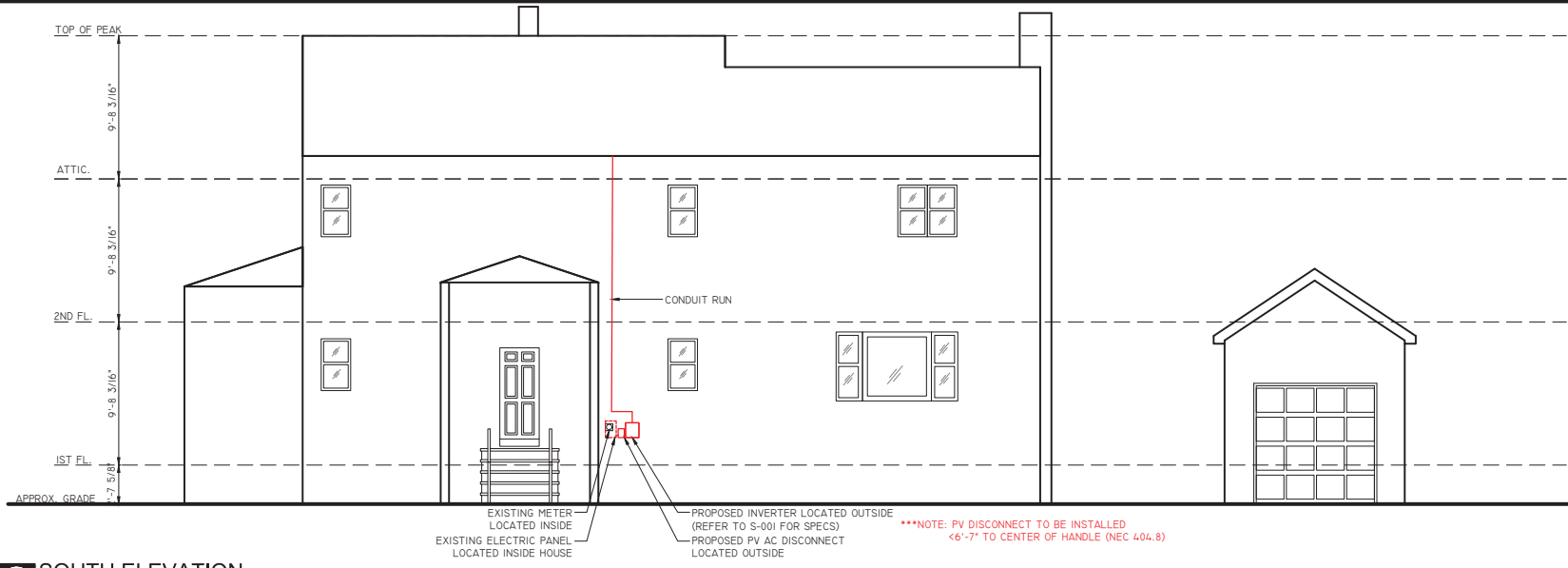
Drawing Information
 DRAWING DATE: 8/1/2022
 DRAWN BY: KTD
 REVISED BY: DMR

System Information:	
DC SYSTEM SIZE:	4kW
AC SYSTEM SIZE:	3kW
MODULE COUNT:	10
MODULES USED:	HANWHA 400
MODULE SPEC #:	Q,PEAK DUO BLK ML-G10.4+ 400
UTILITY COMPANY:	PSEG-LI
UTILITY ACCT #:	5157277503
UTILITY METER #:	80509444
DEAL TYPE:	SUNNOVA

DWG No.
S-001.00
 PAGE: 3 OF 6

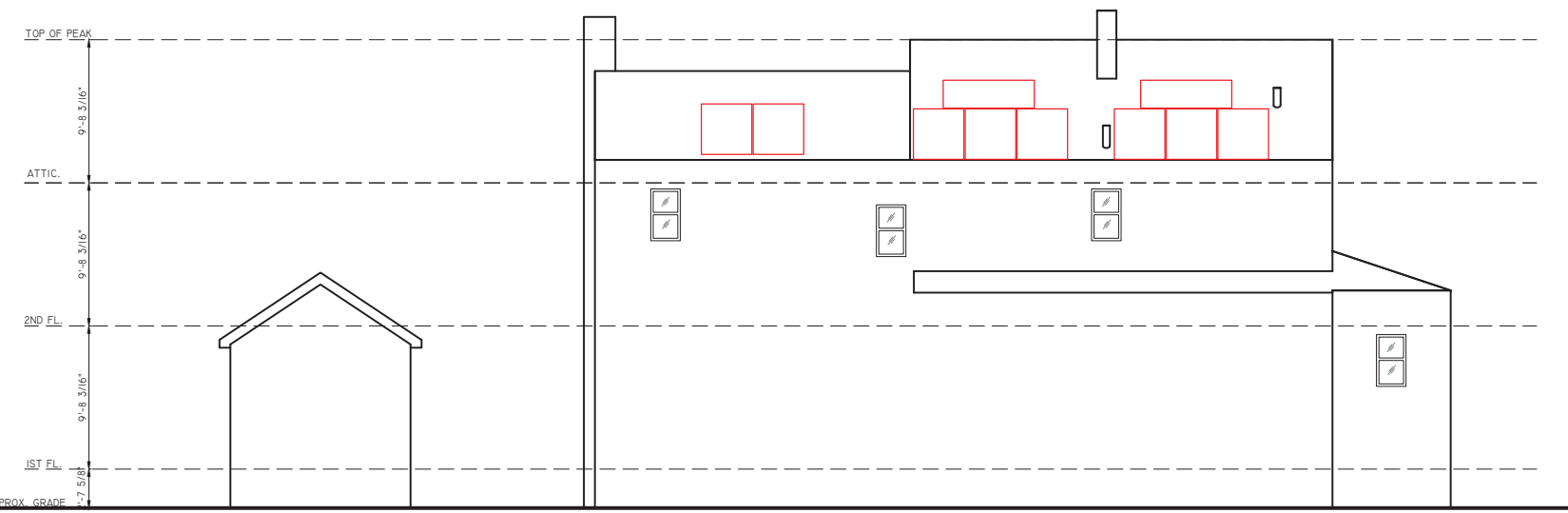


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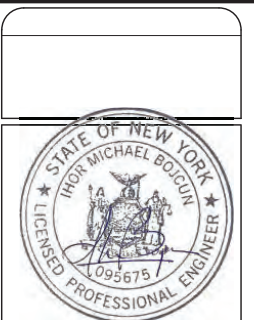


SOUTH ELEVATION
SCALE: 1/8"=1'-0"

EXISTING METER LOCATED INSIDE
 EXISTING ELECTRIC PANEL LOCATED INSIDE HOUSE
 CONDUIT RUN
 PROPOSED INVERTER LOCATED OUTSIDE (REFER TO S-001 FOR SPECS)
 PROPOSED PV AC DISCONNECT LOCATED OUTSIDE
 ***NOTE: PV DISCONNECT TO BE INSTALLED <6'-7" TO CENTER OF HANDLE (NEC 404.8)



NORTH ELEVATION
SCALE: 1/8"=1'-0"



Issued / Revisions		
R1	LAYOUT REVISION	1/4/2021
R2	MODULES RELOCATION	11/9/2022
R3	SYSTEM SIZE DECREASE / LAYOUT REVISION / TRENCH	09/26/2022
PE	ISSUED TO TOWNSHIP FOR PERMIT	8/1/2022
NO.	DESCRIPTION	DATE

Project Title:
 EUSEBIO, MARIO-
 TRINITY ACCT #: 2022-06-725823

Project Address:
 23 PLAINFIELD AVENUE
 FLORAL PARK, NY 11001
 40.728524,-73.699998

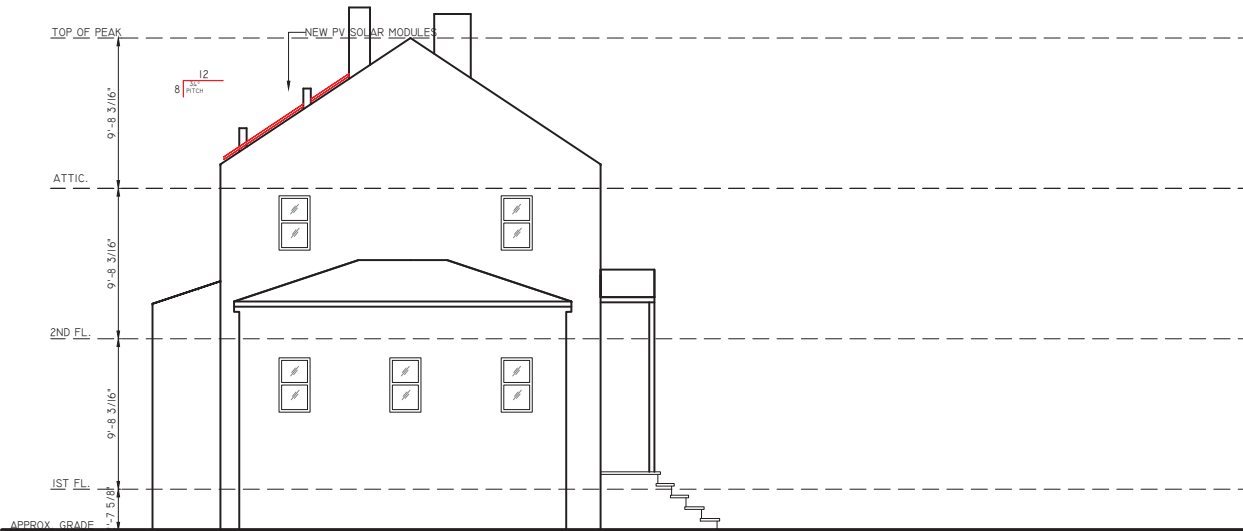
Drawing Title:
ELEVATION DRAWING

Drawing Information	
DRAWING DATE:	8/1/2022
DRAWN BY:	KTD
REVISED BY:	DMR

System Information:	
DC SYSTEM SIZE:	4kW
AC SYSTEM SIZE:	3kW
MODULE COUNT:	10
MODULES USED:	HANWHA 400
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.4+ 400
UTILITY COMPANY:	PSEG-LI
UTILITY ACCT #:	5157277503
UTILITY METER #:	80509444
DEAL TYPE:	SUNNOVA

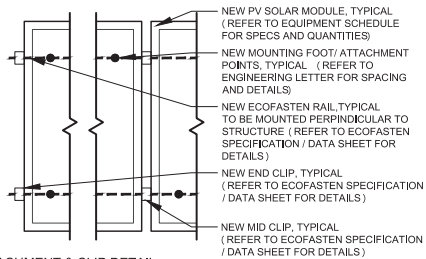
DWG No.
S-002.00
 PAGE: 4 OF 6



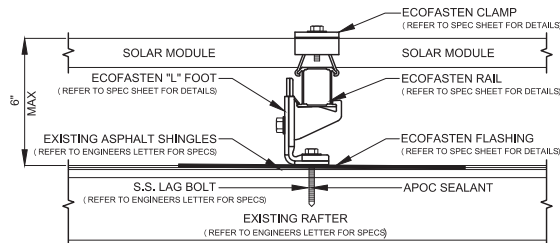


WEST ELEVATION
SCALE: 1/8"=1'-0"

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



ATTACHMENT & CLIP DETAIL
SCALE: NOT TO SCALE



PV MODULE ATTACHMENT ON ASPHALT SHINGLE ROOF
SCALE: NOT TO SCALE



Issued / Revisions

NO.	DESCRIPTION	DATE
R1	LAYOUT REVISION	1/4/2021
R2	MODULES RELOCATION	11/9/2022
R3	SYSTEM SIZE DECREASE / LAYOUT REVISION / TRENCH	09/26/2022
PE	ISSUED TO TOWNSHIP FOR PERMIT	8/1/2022

Project Title:

EUSEBIO, MARIO-
TRINITY ACCT #: 2022-06-725823

Project Address:

23 PLAINFIELD AVENUE
FLORAL PARK, NY 11001
40.728524,-73.699998

Drawing Title:

ELEVATION DRAWING

Drawing Information

DRAWING DATE: 8/1/2022
DRAWN BY: KTD
REVISED BY: DMR

System Information:

DC SYSTEM SIZE: 4kW
AC SYSTEM SIZE: 3kW
MODULE COUNT: 10
MODULES USED: HANWHA 400
MODULE SPEC #: Q.PEAK DUO BLK ML-G10.a+ 400
UTILITY COMPANY: PSEG-LI
UTILITY ACCT #: 5157277503
UTILITY METER #: 80509444
DEAL TYPE: SUNNOVA

DWG No.

S-003.00

PAGE: 5 OF 6



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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 2017

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(A) THROUGH (D)

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT AS PER **NEC 690.41 (A)(4)**

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 EQUIVELANT 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(B)(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)]: $(15.00 \times 1.25)I = 18.75A$

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

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

TOTAL AC REQUIRED CONDUCTOR AMPACITY
 $12.50A \times 1.25 = 15.63A$

AWG #10, DERATED AMPACITY
 AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
 RACEWAY DERATING: 1.3 CCC: N/A
 $40A \times 1.0 = 40A$

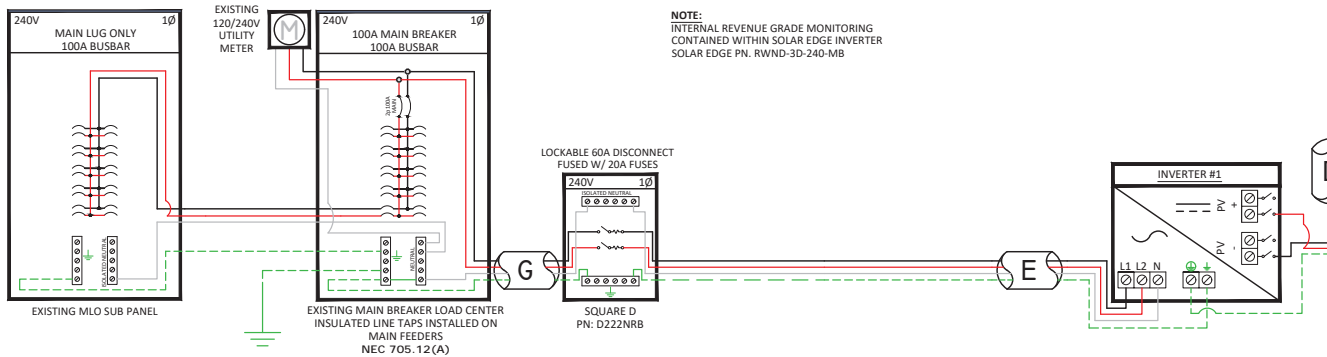
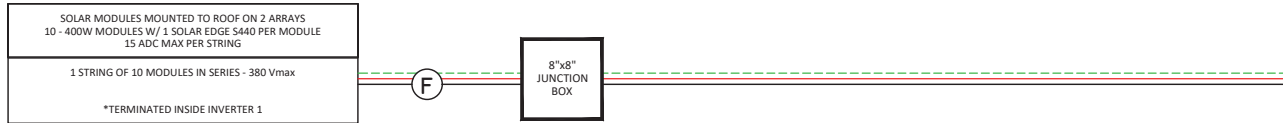
$40A \times 15.63A$, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION

TOTAL INVERTER CURRENT: 12.50A

$12.50A \times 1.25 = 15.63A$

-> 20A OVERCURRENT PROTECTION IS VALID



NOTE:
 INTERNAL REVENUE GRADE MONITORING
 CONTAINED WITHIN SOLAR EDGE INVERTER
 SOLAR EDGE PN: RWND-3D-240-MB

PV MODULE SPECIFICATIONS	
HANWHA 400 (Q, PEAK DUO BLK ML-G10-A+ 400)	
Imp	10.77
Vmp	37.13
Voc	45.3
Isc	11.14

FC 504.4.7 - ALL CONDUITS AND PIPING INSTALLATIONS SHALL BE COLOR-CODED WITH CONTINUOUS, DURABLE, AND WEATHERPROOF REFLECTIVE OR LUMINESCENT MARKINGS AS FOLLOWS, AND FOR CONDUIT AND PIPING INSTALLED AFTER JULY 1, 2014, SHALL BE CONTINUOUSLY LABELED IN AN APPROVED MANNER TO INDICATE ITS CONTENTS:
 1. HIGH VOLTAGE WIRING - RED
 2. LOW VOLTAGE WIRING - ORANGE
 3. NATURAL GAS PIPING - YELLOW

INVERTER #1 - SE3000H-US05BNC4			
DC	AC		
Imp	8.5	Pout	3000
Vmp	380	Imax	12.5
Voc	480	OCpDmin	15.63
Isc	15	Vnom	240

FC 512.4.2 - INDOOR AND OUTDOOR DIRECT CURRENT CONDUIT, ENCLOSURE, RACEWAYS, CABLE ASSEMBLIES, JUNCTION BOXES, COMBINER BOXES, AND MAIN SERVICE AND OTHER DISCONNECTS SHALL HAVE DURABLE, RETROREFLECTIVE, AND, IF OUTDOORS, WEATHERPROOF, MARKINGS, IN WHITE CAPITAL LETTERS WITH A HEIGHT OF NOT LESS THAN 1/8 INCH (9.5 MM) ON A RED BACKGROUND, READING "WARNING: PHOTOVOLTAIC POWER SOURCE."

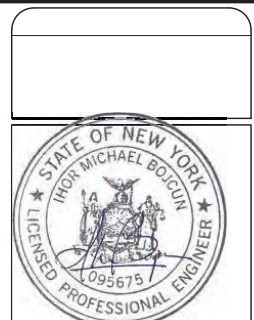
NOTE: CONDUIT TYPE SHALL BE CHOSEN BY THE INSTALLATION CONTRACTOR TO MEET OR EXCEED NEC AND LOCAL AHJ REQUIREMENTS

A	#6 THWN-2 GEC TO EXISTING GROUND ROD
B	1" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND (TRENCHED APPROX. 10')
C	1" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
D	1" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
E	1" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
F	#10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY
G	1" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2, 1-#8 THWN-2 GROUND

PLAN NOTES

1. SCOPE OF WORK IS SOLELY FOR THE INSTALLATION OF THE SOLAR ELECTRONIC GENERATING SYSTEM. ALL OTHER WORK IS NOT TO BE RELIED UPON AS BEING APPROVED AND/OR PERMITTED BY THE DOB

NYC DEPT OF BUILDING APPROVAL STAMP



Issued / Revisions		
R1	LAYOUT REVISION	1/4/2023
R2	MODULES RELOCATION	11/9/2022
R3	SYSTEM SIZE DECREASE / LAYOUT REVISION / TRENCH	10/25/2022
PL	ISSUED TO TOWNSHIP FOR PERMIT	8/1/2022
NO.	DESCRIPTION	DATE

Project Title:
 EUSEBIO, MARIO-
 TRINITY ACCT #: 2022-06-725823

Project Address:
 23 PLAINFIELD AVENUE
 FLORAL PARK, NY 11001
 40.728524,-73.699998

Drawing Title:
 ELECTRICAL 3-LINE
 DRAWING

Drawing Information
 DRAWING DATE: 8/1/2022
 DRAWN BY: KTD
 REVISED BY: DMR

System Information:	
DC SYSTEM SIZE:	4KW
AC SYSTEM SIZE:	3KW
MODULE COUNT:	10
MODULES USED:	HANWHA 400
MODULE SPEC #:	Q, PEAK DUO BLK ML-G10-A+ 400
UTILITY COMPANY:	PSEG-LI
UTILITY ACCT #:	5157277503
UTILITY METER #:	80509444
DEAL TYPE:	SUNNOVA

DWG No.
E-001.00
 PAGE: 6 OF 6



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- NOTES:**
 1.) COMPLIES WITH NEC 2017
 2.) REFER TO SHEET PV-3 FOR SITE SPECIFIC VALUES REQUIRED BY NEC 690
 3.) STICKERS, LABELS, AND PLACKARDS SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED

To be located on all DC junction boxes and every 10' on DC conduit

WARNING - PHOTOVOLTAIC POWER SOURCE
 NEC 690.31(G)



DC Junction Box



Soladeck



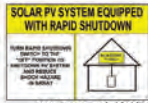
DC Conduit



NEC 690.56(C)(1)(A)



Service Disconnect



NEC 690.56(C)(1)(A)



Main Service Panel



Utility Meter Socket



Solar Meter Socket



NEC 690.56(C)(3)



NEC 690.13(B)



NEC 690.54



Photovoltaic AC Disconnect



NEC 690.54



Load Center (To Combine Inverters)



NEC 690.56(C)(3)



NEC 690.13(B)



NEC 690.4(B)



NEC 690.53



Inverter(s)



NEC 690.4(B)



NEC 690.53



DC Disconnect



NEC 690.13(B)



Enphase Envoy Box



powered by
Q.ANTUM DUO Z

Q.PEAK DUO BLK ML-G10.a+ 385-405

ENDURING HIGH PERFORMANCE



BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology, with zero gap cell layout, boosts module efficiency up to 20.9%.



THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY
Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



INNOVATIVE ALL-WEATHER TECHNOLOGY

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



ENDURING HIGH PERFORMANCE

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



EXTREME WEATHER RATING

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



A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty².

¹ AP1 test conditions according to IEC/TS 62504-1:2015, method A (-1800 V, 90 h)
² See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

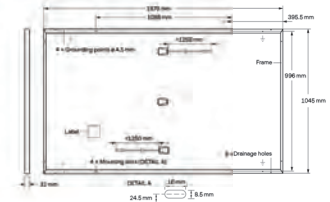


Engineered in Germany



MECHANICAL SPECIFICATION

Format	1879 mm × 1045 mm × 32 mm (including frame)
Weight	22.0 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction box	53-401 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 1250 mm, (-) ≥ 1250 mm
Connector	Stäubli MC4, IP68

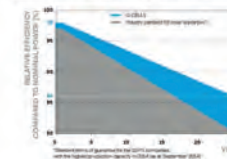


ELECTRICAL CHARACTERISTICS

POWER CLASS	385	390	395	400	405	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE ± 4% W_p / -0 W_p)						
Power at MPP ¹	P _{MPP} [W]	385	390	395	400	405
Short Circuit Current ¹	I _{sc} [A]	11.04	11.07	11.10	11.14	11.17
Open Circuit Voltage ¹	V _{oc} [V]	45.19	45.23	45.27	45.30	45.34
Current at MPP	I _{MPP} [A]	10.59	10.65	10.71	10.77	10.83
Voltage at MPP	V _{MPP} [V]	36.36	36.62	36.88	37.13	37.39
Efficiency ¹	η [%]	≥ 19.2	≥ 19.9	≥ 20.1	≥ 20.4	≥ 20.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²						
Power at MPP	P _{MPP} [W]	288.8	292.6	296.3	300.1	303.8
Short Circuit Current	I _{sc} [A]	8.90	8.92	8.95	8.97	9.00
Open Circuit Voltage	V _{oc} [V]	42.62	42.85	42.69	42.72	42.76
Current at MPP	I _{MPP} [A]	8.36	8.41	8.46	8.51	8.57
Voltage at MPP	V _{MPP} [V]	34.59	34.81	35.03	35.25	35.46

¹ Measurement tolerances P_{MPP} ± 3%; I_{sc}, V_{oc} ± 5% at STC; 1000 W/m², 25 ± 2°C, AM 1.5 according to IEC 60904-3:2006 W/m², hνMO, spectrum AM 1.5

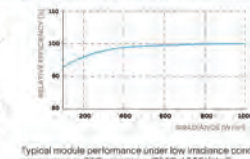
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 89.5% 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]	-0.27
Temperature Coefficient of P _{MPP}	γ [%/K]	-0.34	Nominal Module Operating Temperature	NMOT [°C]	43 ± 3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V _{max} [V]	1000	PV module classification	Class II
Maximum Reverse Current	I _r [A]	20	Fire Rating based on ANSI/UL 61700	C/TYP2
Max. Design Load, Push/Pull	[Pa]	3600/2680	Permitted Module Temperature on Continuous Duty	-40°C ~ +85°C
Max. Test Load, Push/Pull	[Pa]	5400/4000		

QUALIFICATIONS AND CERTIFICATES



PACKAGING INFORMATION

Quality Controlled PV - TÜV Rheinland, IEC 61215:2016, IEC 61700:2016. This cable sheet complies with DIN EN 50338-2.	Horizontal packaging	1940mm	1100mm	1220mm	751kg	28 pallets	24 pallets	32 modules
Vertical packaging	1870mm	1100mm	1215mm	700kg	28 pallets	24 pallets	33 modules	

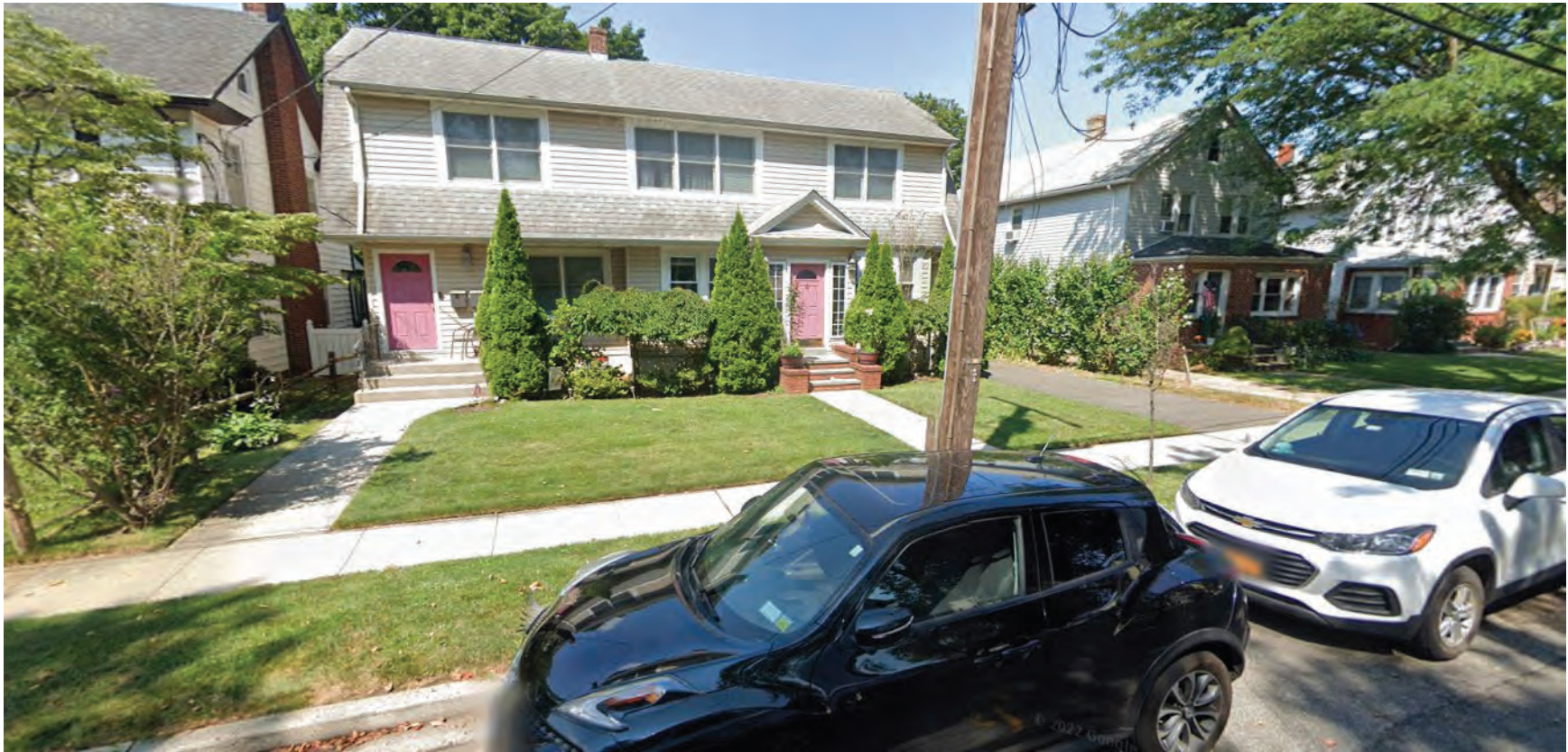
Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of the product.

Hanwha Q CELLS GmbH
Sonneallee 17-21, 06708 Bitterfeld-Wolfen, Germany | TEL +49 (0)3494 66 99-23444 | FAX +49 (0)3494 66 99-23000 | EMAIL sales@q-cells.com | WEB www.q-cells.com

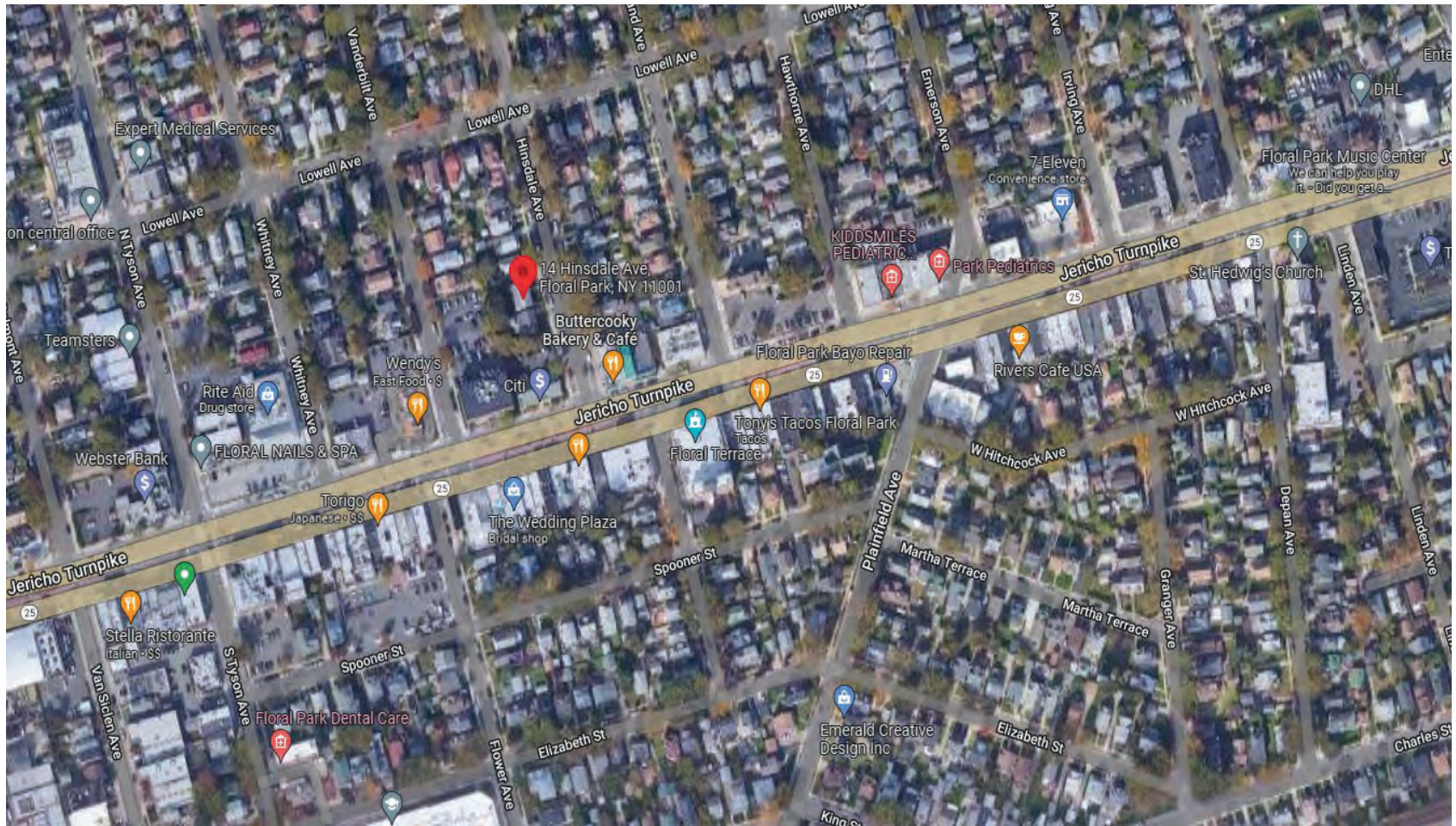
Engineered in Germany



Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
6	8:25 p.m.	14	Hinsdale Avenue	Solar Panels	Jigar Patel	Trinity Solar



14 Hinsdale Avenue (Aerial View)



Jigar Patel- 14 Hinsdale Ave Floral Park NY 11001



Jigar Patel- 14 Hinsdale Ave Floral Park NY 11001



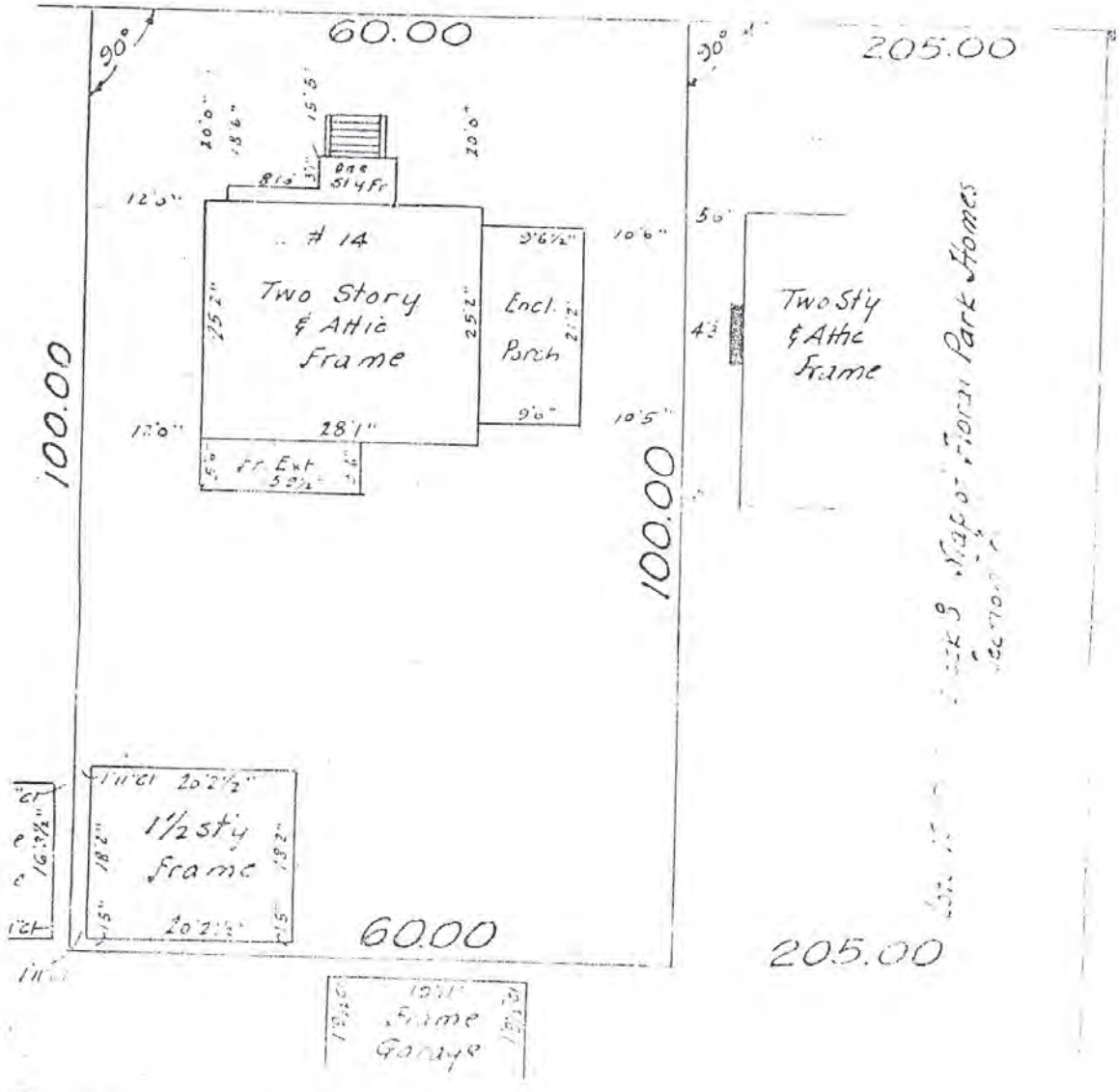
Jigar Patel- 14 Hinsdale Ave Floral Park NY 11001



Jigar Patel- 14 Hinsdale Ave Floral Park NY 11001



HINSDALE AVE.



Block 9 Maps of Floral Park Homes

IIS W REUTER, JR. INC.
C. City & Land Surveyors
 C. CITY & LAND SURVEYORS
 650 N. ST. PATRICK ST. PALM BEACH, FLA. 33460

SECTION _____ BLOCK _____
 Catskill Savings Bank
 Inter-County Title Guar. & Trus. Co.

DATE: June 28
 1955
 111

INSTALLATION OF (2) NEW ROOF MOUNTED PV SYSTEMS SYSTEM #1 - 4.400kW (1 OF 2) SYSTEM #2 - 4.400kW (2 OF 2)

14 HINSDALE AVENUE
FLORAL PARK, NY 11001

HINSDALE AVENUE ●



VICINITY MAP
SCALE: NTS

SITE

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-INSTALLATION MEETING FOR THE REVIEW OF THE INSTALLATION PROCEDURES, SCHEDULES, SAFETY AND COORDINATION. PRIOR TO THE SYSTEM START UP THE INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS.
11. FOR THE PROPER MAINTENANCE AND ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
12. THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS.
13. 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. ONCE APPROVED, THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SYSTEM COMPONENTS AS DESCRIBED IN THE DRAWING PACKAGE.
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)
COMBINER BOX
CB CIRCUIT BREAKER
CT CURRENT TRANSFORMER
COPPER
CT DIRECT CURRENT
CU DISCONNECT SWITCH
DC DRAWING
DISC ELECTRICAL SYSTEM INSTALLER
DWG ELECTRICAL METALLIC TUBING
EC FUSIBLE SWITCH
EMT FUSE
FS FUSE
FU GROUND
GND GROUND FAULT INTERRUPTER
GFI FREQUENCY (CYCLES PER SECOND)
HZ

ABBREVIATIONS CONTINUED

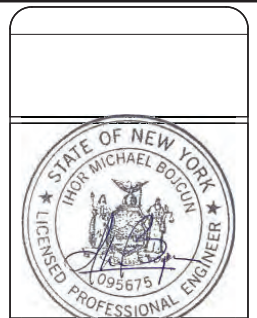
JB JUNCTION BOX
KCMIL THOUSAND CIRCULAR MILS
KV KILOVOLT AMPERE
KW KILO-WATT
KWH KILO-WATT HOUR
L LINE
MCB MAIN CIRCUIT BREAKER
MDP MAIN DISTRIBUTION PANEL
MLO MAIN LUG ONLY
MTD MOUNTED
MTG MOUNTING
N NEUTRAL
NEC NATIONAL ELECTRICAL CODE
NIC NOT IN CONTRACT
NO # NUMBER
NTS NOT TO SCALE
OCP OVER CURRENT 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
ISWBd 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 (SYSTEM #1)
PV-4 ELECTRICAL 3 LINE DIAGRAM (SYSTEM #2)
AP APPENDIX

GENERAL NOTES

IF ISSUED DRAWING IS MARKED WITH A REVISION CHARACTER OTHER THAN "A", PLEASE BE ADVISED THAT FINAL EQUIPMENT AND/OR SYSTEM CHARACTERISTICS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY OF EQUIPMENT.



Issued / Revisions

NO.	DESCRIPTION	DATE
P1	ISSUED TO TOWNSHIP FOR PERMIT	8/25/2022

Project Title:
PATEL JIGAR & GARCIA JENNIFER
(COMBINED)
TRINITY ACCT #: 2022-03-684582 /
2022-03-685999

Project Address:
14 HINSDALE AVENUE
FLORAL PARK, NY 11001
40.72957643, -73.70277130

Drawing Title:
PROPOSED PV SOLAR SYSTEM

Drawing Information
DRAWING DATE: 8/25/2022
DRAWN BY: FJ
REVISED BY:

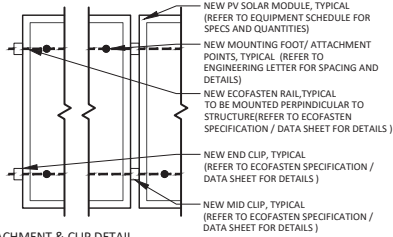
System Information:
DC SYSTEM SIZE: 8.8KW
AC SYSTEM SIZE: 7.6KW
MODULE COUNT: 22
MODULES USED: HANWHA 400
MODULE SPEC #: Q-PEAK DUO BLK ML-G10-a+400
UTILITY COMPANY: PSEG-LI
UTILITY ACCT #: SEE LAYOUT
UTILITY METER #: SEE LAYOUT
DEAL TYPE: SUNNOVA

Rev. No.	Sheet
P1	PV - 1

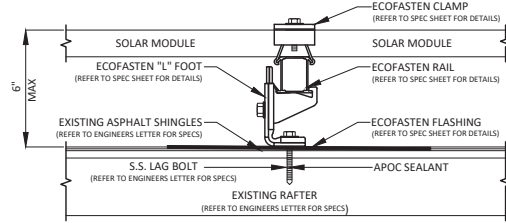


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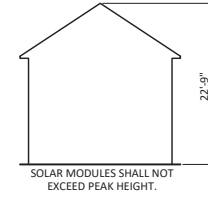
NOTES: * REFER TO MODULE SPECS FOR MODULE DIMENSIONS
 **DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



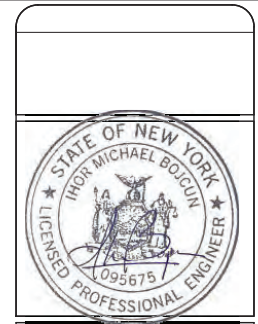
ATTACHMENT & CLIP DETAIL
 SCALE: NOT TO SCALE



PV MODULE ATTACHMENT ON ASPHALT SHINGLE ROOF
 SCALE: NOT TO SCALE



HEIGHT FROM GROUND LEVEL TO PEAK OF ROOF
 SCALE: NOT TO SCALE



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Drawing Title:
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Drawing Information
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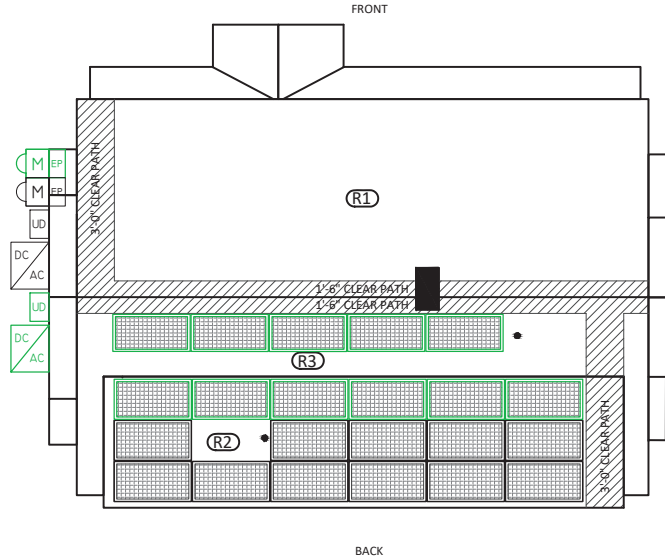
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 UTILITY COMPANY: PSEG-LI
 UTILITY ACCT #: SEE LAYOUT
 UTILITY METER #: SEE LAYOUT
 DEAL TYPE: SUNNOVA

Rev. No.	Sheet
P1	PV - 2



ARRAY SCHEDULE

LEGEND	
	SYSTEM #1 (1 OF 2) ACCOUNT #: 5528251105 METER #: 98402795 4.40KW - 11 MODULES
	SYSTEM #2 (2 OF 2) ACCOUNT #: 5528251134 METER #: 98402795 4.40KW - 11 MODULES



- 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.) JAN AC DISCONNECT SHALL BE GROUPED WITH INVERTER(S) IN EC 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.

- ROOF 1**
 MODULES: 0
 PITCH: 30°
 ORIENTATION: 75°
- ROOF 2**
 MODULES: 17
 PITCH: 21°
 ORIENTATION: 255°
- ROOF 3**
 MODULES: 5
 PITCH: 30°
 ORIENTATION: 255°
- ROOF 4**
 MODULES: 0
 PITCH: 30°
 ORIENTATION: 344°
- ROOF 5**
 MODULES: 0
 PITCH: 30°
 ORIENTATION: 164°

SYMBOL LEGEND			
	INDICATES ROOF DESIGNATION - REFER TO ARRAY SCHEDULE FOR MORE INFORMATION		INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)
	INDICATES EXISTING METER LOCATION		INDICATES NEW PV SOLAR MODULE. RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS.
	INDICATES EXISTING ELECTRICAL PANEL LOCATION: INSIDE		INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.
	INDICATES NEW FUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)		INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS.
	INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED		INDICATES NEW DC DISCONNECT
	INDICATES EXISTING SERVICE DISCONNECT		INDICATES EXISTING TRANSFER SWITCH

PLUMBING SCHEDULE		EQUIPMENT SCHEDULE	
		QTY	SPEC #
		22	HANWHA 400 (Q,PEAK DUO BLK ML-G10.a+ 400)
		1	SE3800H-US0SHBNC4
		1	SE3800H-US0SHBNC4
OTHER OBSTRUCTIONS			

ARRAY CIRCUIT WIRING NOTES
1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH NEC 2017

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(A) THROUGH (D)

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT AS PER **NEC 690.41 (A)(4)**

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 BUSSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY **NEC 705.12(B)(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*1.25)¹ = 18.75A

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

38.40A > 18.75A, THEREFORE WIRE SIZE IS VALID

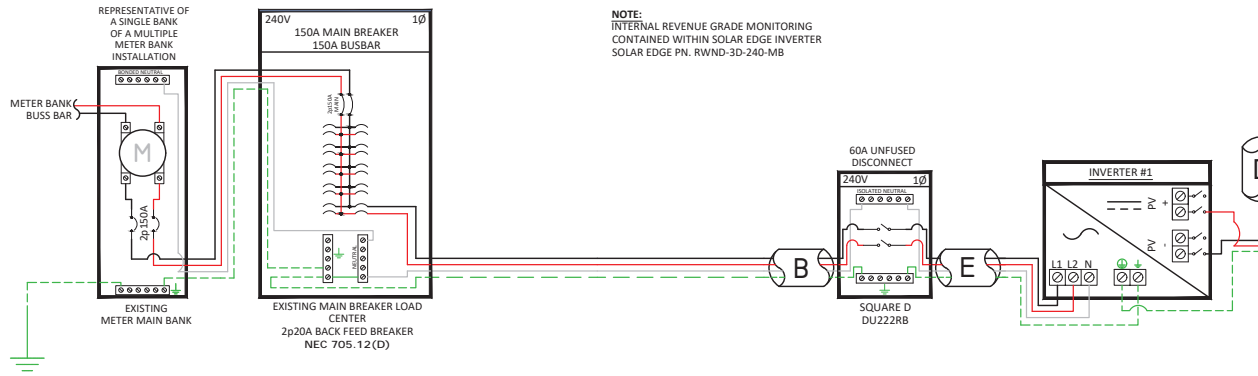
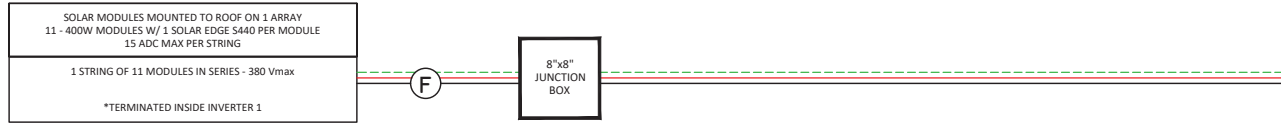
TOTAL AC REQUIRED CONDUCTOR AMPACITY
 16.00A*1.25 = 20.00A

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

40A > 20.00A, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION

TOTAL INVERTER CURRENT: 16.00A
 16.00A*1.25 = 20.00A
 --> 20A OVERCURRENT PROTECTION IS VALID



PV MODULE SPECIFICATIONS	
HANWHA 400 (Q, PEAK DUO BLK ML-G10-a+ 400)	
Imp	10.77
Vmp	37.13
Voc	45.3
Isc	11.14

INVERTER #1 - SE3800H-US05HBC4			
	DC	AC	
Imp	10.5	Pout	3800
Vmp	380	Imax	16
Voc	480	OCpDmin	20
Isc	15	Vnom	240

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

A	#6 THWN-2 GEC TO EXISTING GROUND ROD
B	1" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
C	1" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
D	1" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
E	1" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
F	#10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY
G	1" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2, 1-#8 THWN-2 GROUND

Engineer / License Holder:

Issued / Revisions

NO.	DESCRIPTION	DATE
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Project Title:
 PATEL JIGAR & GARCIA JENNIFER (1 OF 2)
 TRINITY ACCT #: 2022-03-684582

Project Address:
 14 HINSDALE AVENUE
 FLORAL PARK, NY 11001
 40.72957643, -73.70277130

Drawing Title:
 PROPOSED PV SOLAR SYSTEM

Drawing Information
 DRAWING DATE: 8/25/2022
 DRAWN BY: FJ
 REVISED BY:

System Information:
 DC SYSTEM SIZE: 4.4KW
 AC SYSTEM SIZE: 3.8KW
 MODULE COUNT: 11
 MODULES USED: HANWHA 400
 MODULE SPEC #: Q, PEAK DUO BLK ML-G10-a+ 400
 UTILITY COMPANY: PSEG-LI
 UTILITY ACCT #: 5528251105
 UTILITY METER #: 98402796
 DEAL TYPE: SUNNOVA

Rev. No.	Sheet
P1	PV - 3

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 Wall, New Jersey 07719

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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 2017

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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(A) THROUGH (D)

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT AS PER **NEC 690.41 (A)(4)**

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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 BUSSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY **NEC 705.12(B)(2)(3)(b)**

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

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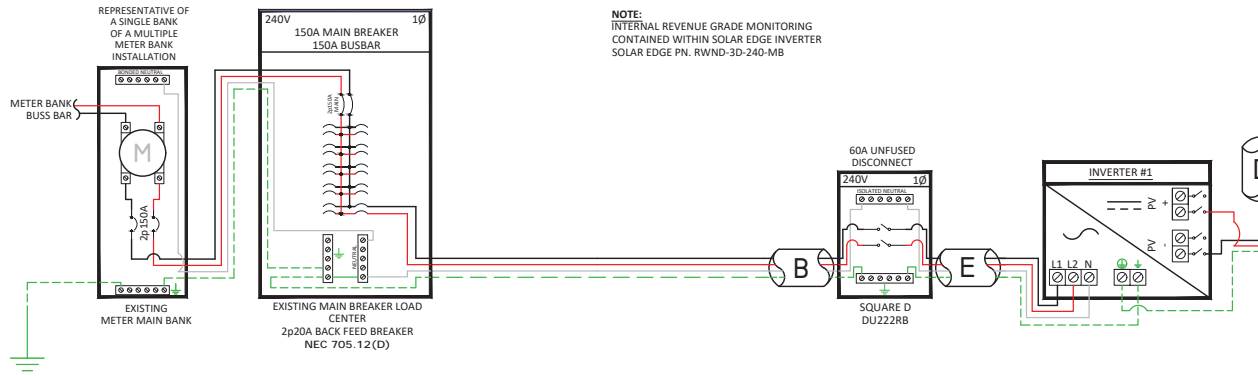
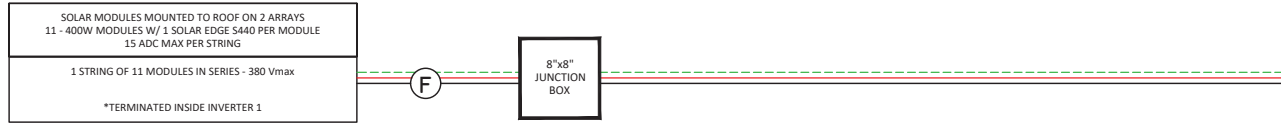
38.40A > 18.75A, THEREFORE WIRE SIZE IS VALID

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 > 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



NOTE: INTERNAL REVENUE GRADE MONITORING CONTAINED WITHIN SOLAR EDGE INVERTER SOLAR EDGE PN. RWND-3D-240-MB

PV MODULE SPECIFICATIONS	
HANWHA 400 (Q, PEAK DUO BLK ML-G10-a+ 400)	
Imp	10.77
Vmp	37.13
Voc	45.3
Isc	11.14

INVERTER #1 - SE3800H-US05HBC4			
	DC	AC	
Imp	10.5	Pout	3800
Vmp	380	Imax	16
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NOTE: CONDUIT TYPE SHALL BE CHOSEN BY THE INSTALLATION CONTRACTOR TO MEET OR EXCEED NEC AND LOCAL AHJD REQUIREMENTS

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C	1" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
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G	1" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2, 1-#8 THWN-2 GROUND

Engineer / License Holder:



Issued / Revisions

NO.	DESCRIPTION	DATE
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Project Title:
 PATEL JIGAR & GARCIA JENNIFER (2 OF 2)
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 40.72957643, -73.70277130

Drawing Title:
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Drawing Information
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System Information:
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 AC SYSTEM SIZE: 3.8KW
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 MODULE SPEC #: Q, PEAK DUO BLK ML-G10-a+ 400
 UTILITY COMPANY: PSEG-LI
 UTILITY ACCT #: 5528251134
 UTILITY METER #: 98402795
 DEAL TYPE: SUNNOVA

Rev. No.	Sheet
P1	PV - 4



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- NOTES:**
 1.) COMPLIES WITH NEC 301.5
 2.) REFER TO SHEET PV-3 FOR SITE SPECIFIC VALUES REQUIRED BY NEC 690
 3.) STICKERS, LABELS, AND PLACKARDS SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED

To be located on all DC Junction boxes and every 10' on DC conduit

WARNING: PHOTOVOLTAIC POWER SOURCE
 NEC 690.31(G)



DC Junction Box



Soladeck



DC Conduit



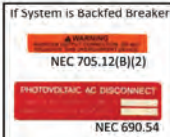
NEC 690.56(C)(1)(A)



Service Disconnect



NEC 690.56(C)(1)(A)



Main Service Panel



Utility Meter Socket



Solar Meter Socket



690.56(C)(3)



NEC 690.13(B)



NEC 690.54



Photovoltaic AC Disconnect



NEC 690.54



Load Center (To Combine Inverters)



690.56(C)(3)



NEC 690.13(B)



NEC 690.4(B)



NEC 690.53



Inverter(s)



NEC 690.4(B)



NEC 690.53



DC Disconnect



NEC 690.13(B)



Enphase Envoy Box



powered by
Q.ANTUM DUO Z

Q.PEAK DUO BLK ML-G10.a+ 385-405

ENDURING HIGH PERFORMANCE



BREAKING THE 20% EFFICIENCY BARRIER
Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.



THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY
Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry. The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



INNOVATIVE ALL-WEATHER TECHNOLOGY
Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



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



EXTREME WEATHER RATING
High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



A RELIABLE INVESTMENT
Inclusive 25-year product warranty and 25-year linear performance warranty².

¹ APF test conditions according to IEC/TS 62904-1:2015, method A (-1800 V, 96h)
² See data sheet for more further information.

THE IDEAL SOLUTION FOR:

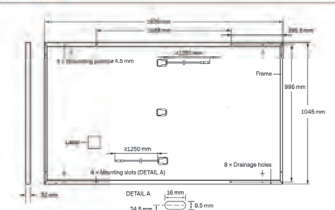


Engineered in Germany



MECHANICAL SPECIFICATION

Format	1879mm × 1045mm × 32mm (including frame)
Weight	22.0 kg
Front Cover	3.2 mm (themsely pre-stressed glass with anti-reflection technology)
Back Cover	Composite film
Frame	Black anodized aluminium
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4mm ² Solar cable, (+) ≥ 1250mm, (-) ≥ 1250mm
Connector	Stäubli MC4; IP68

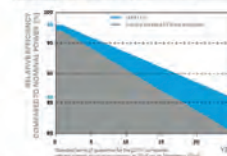


ELECTRICAL CHARACTERISTICS

	385	390	395	400	405	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5W / -0W)						
Power at MPP ²	P _{MPP} [W]	385	390	395	400	405
Short Circuit Current ¹	I _{sc} [A]	11.04	11.07	11.10	11.14	11.17
Open Circuit Voltage ¹	V _{oc} [V]	45.19	45.23	45.27	45.30	45.34
Current at MPP	I _{MPP} [A]	10.59	10.65	10.71	10.77	10.83
Voltage at MPP	V _{MPP} [V]	36.36	36.62	36.88	37.13	37.39
Efficiency ¹	η [%]	≥ 19.6	≥ 19.9	≥ 20.1	≥ 20.4	≥ 20.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT³						
Power at MPP	P _{MPP} [W]	288.8	292.6	296.3	300.1	303.8
Short Circuit Current	I _{sc} [A]	8.90	8.92	8.95	8.97	9.00
Open Circuit Voltage	V _{oc} [V]	42.62	42.65	42.69	42.72	42.76
Current at MPP	I _{MPP} [A]	8.35	8.41	8.46	8.51	8.57
Voltage at MPP	V _{MPP} [V]	34.59	34.81	35.03	35.25	35.46

¹ Measurement tolerances: P_{MPP} ± 3%; I_{sc}, V_{oc} ± 5% at STC; 1000W/m², 25 ± 2°C, AM 1.5 according to IEC 60904-3 • (800W/m²) NMOT, spectrum AM 1.5

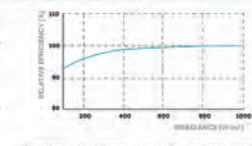
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 90.5% of nominal power up to 10 years. At least 86% 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, 1000W/m²)

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{sc}	α _i [%/K]	+0.04	Temperature Coefficient of V _{oc}	β [%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ [%/K]	-0.34	Nominal Module Operating Temperature	NMOT [°C]	43 ± 3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V _{max} [V]	1000	PV module classification	Class II
Maximum Reverse Current	I _r [A]	20	Fire Rating based on ANSI / UL 61730	C / TYPE 2
Max. Design Load, Push / Pull	[Pa]	3600 / 2660	Permitted Module Temperature on Continuous Duty	-40°C / +85°C
Max. Test Load, Push / Pull	[Pa]	5400 / 4000		

QUALIFICATIONS AND CERTIFICATES

Quality Certified PV - TÜV Rheinland, REC 41315/2016, IEC 61730-2:2016, The solar award certificate, cert. 04V 010306.



PACKAGING INFORMATION

Horizontal packaging	1940mm	1100mm	1220mm	751 kg	28 pallets	24 pallets	32 modules
Vertical packaging	1970mm	1150mm	1215mm	765 kg	28 pallets	24 pallets	33 modules

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.

Hanweh Q CELLS GmbH

Sonnenallee 17-21, 06766 Bitterfeld-Wolfen, Germany | TEL: +49 (0)3494 66 99-23444 | FAX: +49 (0)3494 66 99-23000 | EMAIL: sales@q-cells.com | WEB: www.q-cells.com

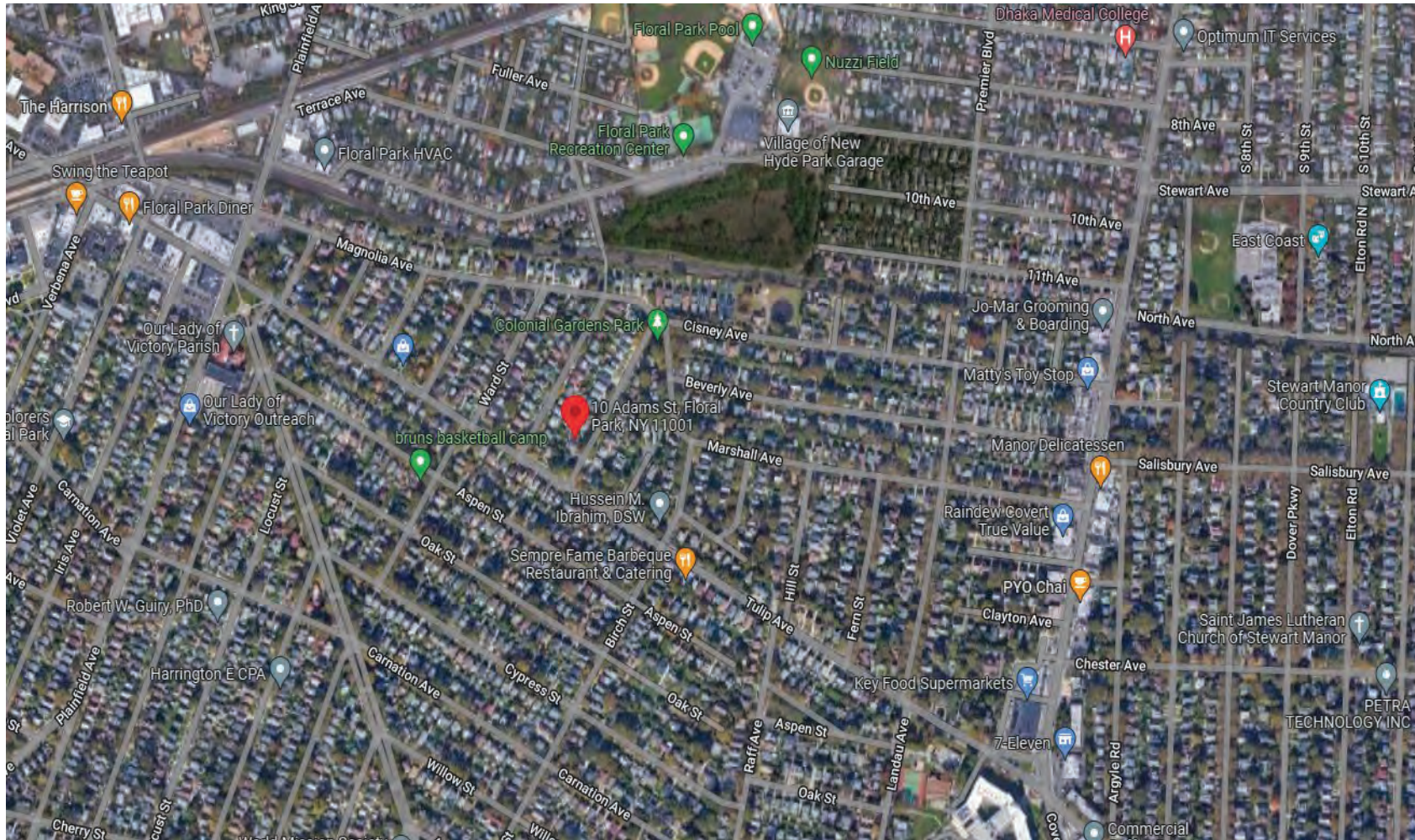
Engineered in Germany



Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
7	8:30 p.m.	10	Adams Street	Solar Panels	Richard Zimmerman	Greenleaf Solar



10 Adams Street (Aerial View)



















TULIP AVE.

N 50:20' W

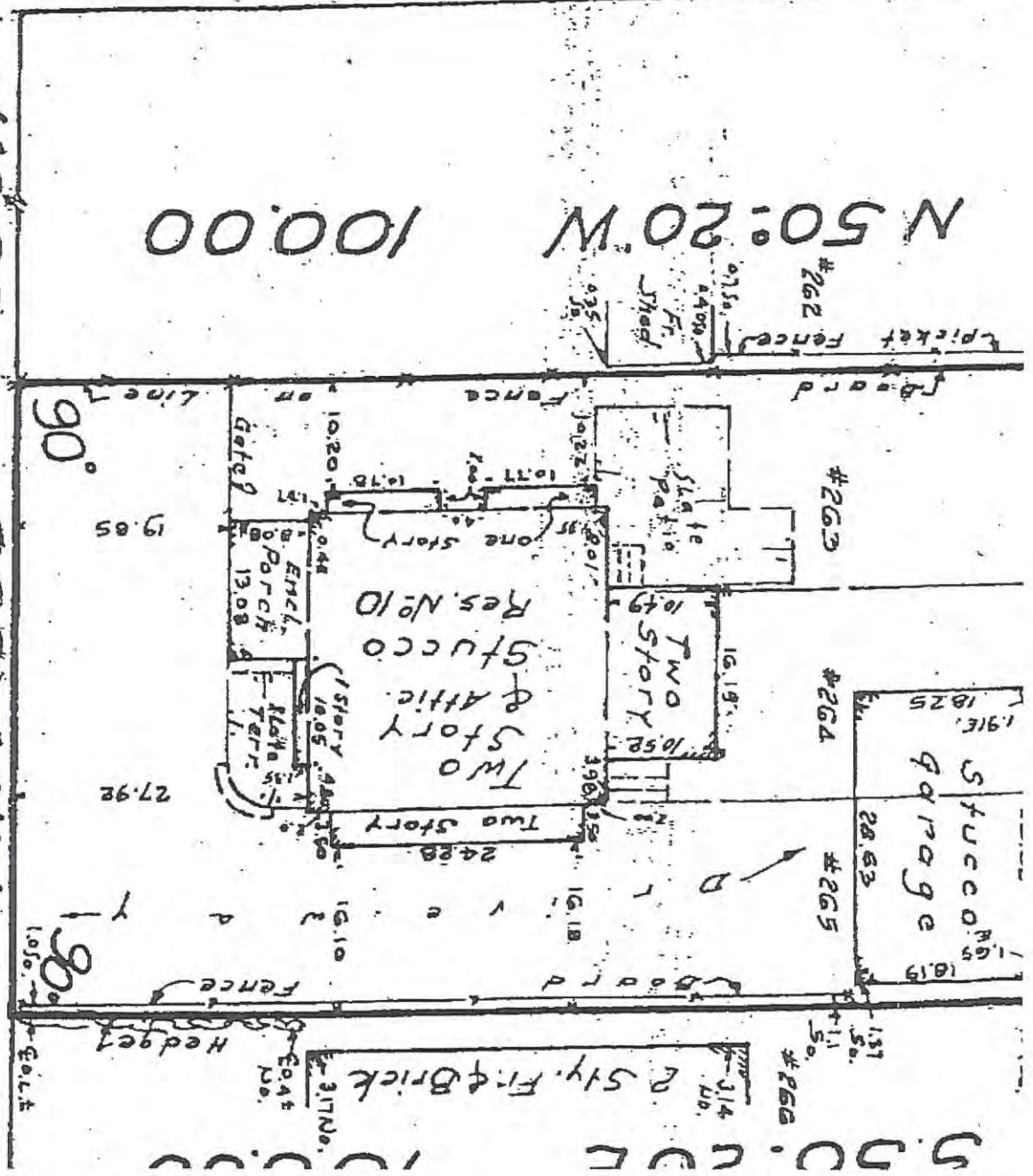
N 50:20' W 100.00

140.00

S 39:40' W 60.00



ADAMS STREET



NOTE: THIS SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH THE MINIMUM STANDARDS FOR TITLE SURVEYS AS SET FORTH BY THE N.Y. STATE LAND TITLE ASS.

LOT 5 263 To 265 incl.

BLOCK 2

Plan of Lots owned by
MAP OF MC. WEAVER & CO. Filed 7.29.05 No 263

SITUATED AT FLORAL PARK, NASSAU COUNTY, N.Y. Case 1968

GUARANTEED TO Commonwealth Land Title

Insurance Company, The Salvation Army

KRAUSE LAND SURVEYORS

HEINZ B. KRAUSE
CITY SURVEYOR
N.Y.S. LIC. 37721

ARTHUR HERMANN
N.Y.S. LIC. 43745

P. O. BOX 112, 789 OLD COUNTRY ROAD
WESTBURY, N. Y. 11590-0015

316-333-0868

DATE May 19 1997

**SOLAR INDIVIDUAL PERMIT PACKAGE
3.24KWGRID-TIED PHOTOVOLTAIC SYSTEM**

HOMEOWNERS NAME:

RICHARD ZIMMERMAN

PROJECT LOCATION:

(516)-770-5183

10 ADAMS STREET
FLORAL PARK, NY, 11001

INC VILLAGE OF FLORAL PARK
UTILITY: PSEG LONG ISLAND

SATELITE IMAGE



CODE INFORMATION

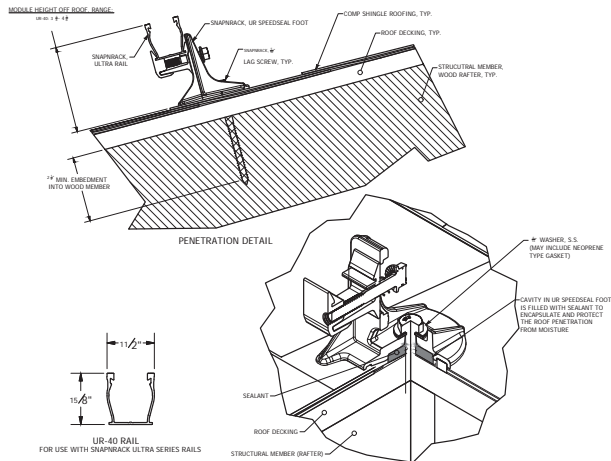
APPLICABLE CODES, LAWS AND REGULATIONS

- 2018 International Building Code (IBC) / 2020 BCNYS
- 2018 International Residential Code (IRC) / 2020 RCNYS
- 2018 International Fire Code (IFC) / 2020 FCNYS
- 2017 National Electric Code (NEC)
- 2018 International Energy Conservation Code (IECC) / 2020 ECCCNY

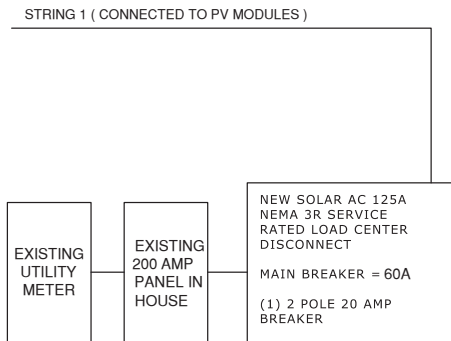
GENERAL NOTES

1. SOLAR PANELS WILL BE (8) (REC 405 AA) PV MODULES, AND (8) IQ7PLUS-72-B-US MICRO INVERTERS
2. PROVIDE A,C, DISCONNECT: 240VAC, NEMA 3R.
3. THE AC DISCONNECT WILL BE LABELED AS "UTILITY DISCONNECT AND PHOTOVOLTAIC SYSTEM LOCK-OUT" LOCATED WITHIN VIEW OF THE ELECTRIC UTILITY METER.
4. IF IT IS NOT PRACTICAL TO LOCATE THE AC DISCONNECT WITHIN VIEW OF THE UTILITY METER, THEN A WEATHERPROOF PLAQUE SHOWING THE LOCATION OF THE SWITCH MUST BE INSTALLED WITHIN VIEW OF THE ELECTRIC UTILITY METER.
5. ALL WIRING TO MEET THE NATIONAL ELECTRICAL CODE.
6. THE RAFTERS AS INDICATED HAVE BEEN ANALYZED AND DEEMED SUFFICIENT TO SUPPORT THE ADDED LOAD OF THE SOLAR PANELS AND CONNECTORS.
7. THE SOLAR PANELS MAY NOT BE INSTALLED ON AN EXISTING ROOF THAT HAS MORE THAN 1 LAYERS OF ASPHALT ROOF SHINGLES, UNLESS ADEQUATE MEANS OF SUPPORT ARE PROVIDED AS PER THESE DRAWINGS.
8. THE MAXIMUM SPACING BETWEEN THE STANDOFFS SHALL BE 64" O.C.
9. THE SOLAR PANEL MOUNTING SYSTEM WILL BE BY SNAPRACK SYSTEM.

ATTACHMENT DETAIL



LINE DIAGRAM



SHEET INDEX

- PAGE 1**
SITE MAP - LINE DIAGRAM - DETAIL
- PAGE 2**
ROOF PLAN & CROSS SECTION
- PAGE 3**
ARRAY INFORMATION AND MOUNTING DETAIL
- PAGE 4**
ROOF PLAN LAYOUT
- PAGE 5**
SOLAR PANEL LAYOUT
- PAGE 6**
SOLAR STICKERS
- PAGE 7**
PLOT PLAN LAYOUT
- PAGE 8**
LADDER SET UP DETAILS

TITLE: SITE MAP, LINE DIAGRAM, DETAIL

DATE: 8/19/2022
JOB NO: JOB-2022-2380ENG
DRAWN BY: ELIAN VASQUEZ

JAMES J. STOUT R.A.
2 GREG LN.
E. NORTHPORT, NY 11731

LATITUDE: 40.722041
LONGITUDE: -73.696728
CLIENT: RICHARD ZIMMERMAN
ADDRESS: 10 ADAMS STREET
FLORAL PARK, NY, 11001

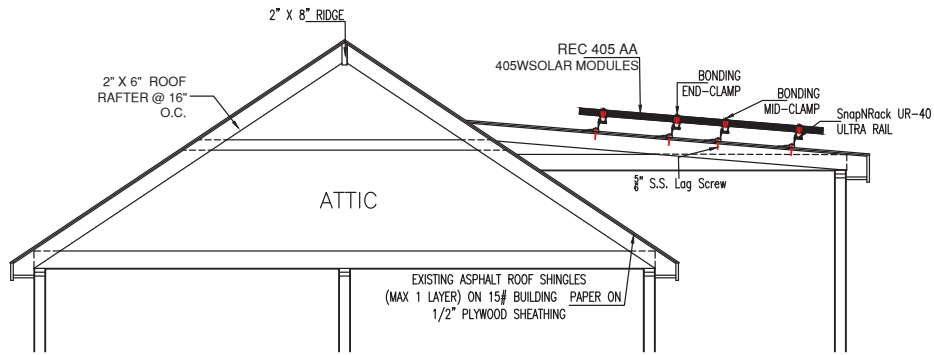
REVISIONS

D.B.#	DATE	DESCRIPTION



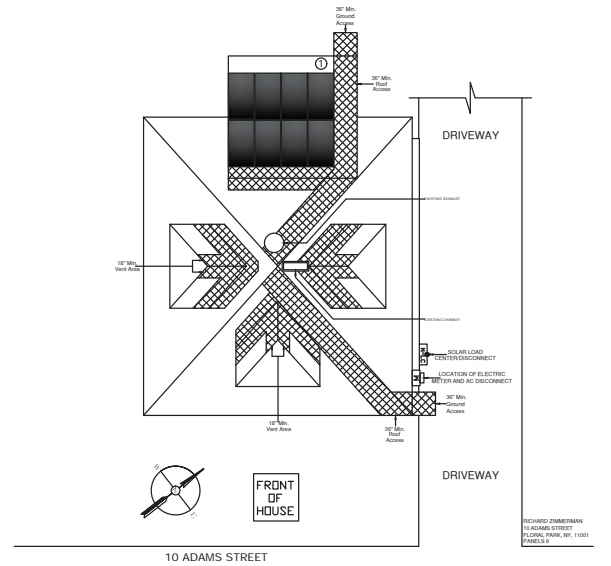
SCALE: NOT TO SCALE

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INFO@GOGREENLEAFSOLAR.COM
631-509-1747



ROOF CROSS SECTION

SCALE 1/4"=1'-0"



ROOF PLAN/PANEL LOCATION

SCALE 1/16"=1'-0"

PRIOR TO CUTTING OR ORDERING OF MATERIAL OR PLACEMENT OF THE L-FOOT ATTACHMENT, FIELD VERIFICATION OF EXACT RAFTER LOCATIONS ARE REQUIRED TO COMPENSATE FOR PREEXISTING RAFTER IRREGULARITY THAT MAY EXIST.

THIS PROPERTY PRODUCES THE REQUIRED GROUND ACCESS TO THE ROOF ACCESS PATHWAYS AS DRAWN.

NOTE: ALL ROOF MOUNTING BRACKETS SHALL BE PROPERLY SECURED TO A ROOF RAFTER.

GROUND ACCESS POINTS ARE NON-OBSTRUCTED PER 2018 IRC AND 2020 NEW YORK STATE RESIDENTIAL BUILDING CODE.

THESE DRAWINGS COMPLY WITH THE 2018 IRC AND 2020 NEW YORK STATE RESIDENTIAL BUILDING CODE.

THE ACTUAL IN-FIELD ATTACHMENT TO THE ROOF WILL MEET OR EXCEED NYS RESIDENTIAL CODE REQUIREMENTS

THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE (AF & PA) WOOD FRAME CONST. MANUAL FOR ONE AND TWO FAMILY DWELLINGS.

NOTE: WHENEVER POSSIBLE PLACE SMALLER SPAN BETWEEN ATTACHMENTS POINTS TO AN OUTSIDE EDGE OR OPENING IN A RUN.

TITLE: ROOF PLAN & CROSS SECTION

DATE: 8/19/2022
 JOB NO: JOB-2022-2380ENG
 DRAWN BY: ELIAN VASQUEZ

CLIENT: RICHARD ZIMMERMAN
 ADDRESS: 10 ADAMS STREET
 FLORAL PARK, NY, 11001

LATITUDE: 40.722041
 LONGITUDE: -73.696728

REVISIONS

D.B.#	DATE	DESCRIPTION

JAMES J. STOUT R.A.
 2 GREG LN.
 E. NORTHPORT, NY 11731



Scale: INDICATED

GREENLEAF SOLAR

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 INFO@GGREENLEAFSOLAR.COM

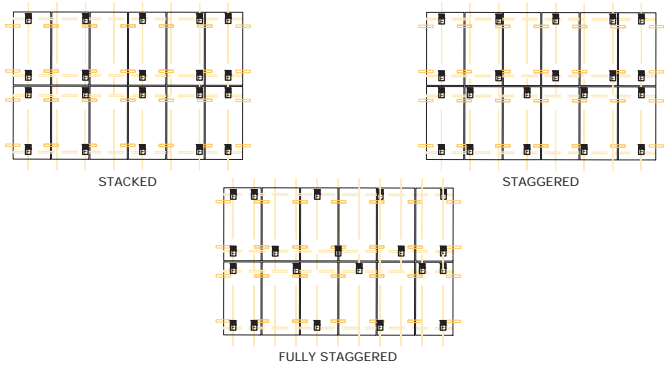
Project No: **2**
 Sheet No: **8**

ARRAY INFORMATION

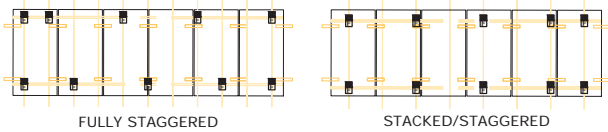
	ROOF PITCH	ROOF AZIMUTH	ROOFING TYPE	RACKING TYPE	ATTACHMENT TYPE	FRAMING TYPE	FRAMING SIZE	O/C SPACING	PENETRATION PATTERN	MAX ATTACHMENT SPACING	MAX OVERHANG
ROOF 1	05°	300° (W)	COMP SHINGLE	RAILED	SNR L-FOOT	WOOD RAFTER	2" X 6"	16"	STACKED	64"	18"

TABLE 2: PENETRATION GUIDE FOR INSTALL

TWO OR MORE ROWS OF MODULES



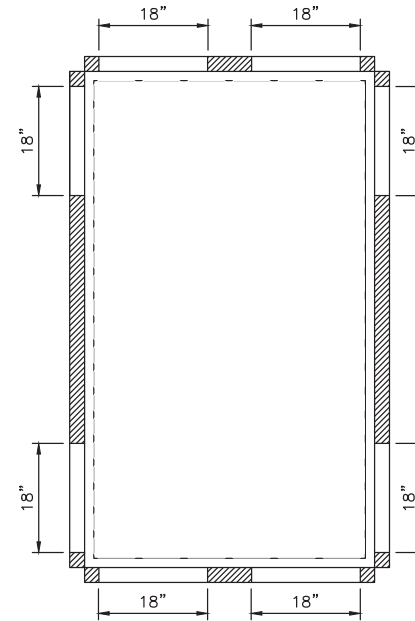
ONE ROW OF MODULES



*CHECK TABLE 1 FOR MAX.. PENETRATION SPACING AND PENETRATION PATTERN FOR EACH ARRAY.

BOM

FIGURE 3: MOUNTING CLAMP POSITIONING DETAILS



REC 405 AA

• RAILS SHALL BE POSITIONED IN THE NON-CROSS HATCHED REGIONS

TITLE: ARRAY INFORMATION AND MOUNTING DETAIL

LATITUDE
 40.722041
 LONGITUDE
 -73.696728

CLIENT: RICHARD ZIMMERMAN
 ADDRESS: 10 ADAMS STREET
 FLORAL PARK, NY, 11001

DATE: 8/19/2022
 JOB NO: JOB-2022-2380ENG
 DRAWN BY: ELIAN VASQUEZ








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 2 GREG LN.
 E. NORTHPORT, NY 11731

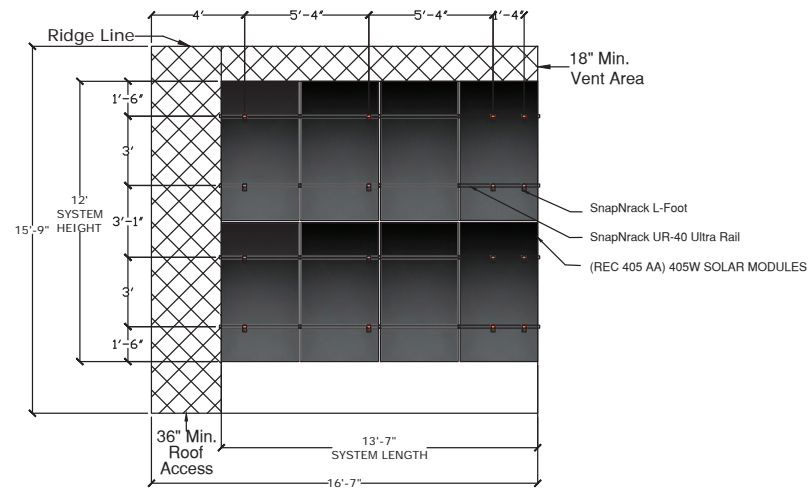
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 INFO@GGREENLEAFSOLAR.COM
 631-509-1747

SCALE:
 NOT TO SCALE

REVISIONS	
D.B. #	DESCRIPTION





LEGEND		Piece Count
	SnapRack L-Foot	16 Pcs.
	SnapRack UR-40 Ultra Rail	60 Ft.
	REC 405 AA 405W 71.6W x 48.00" PHOTOVOLTAIC SOLAR PANEL (See general specs for more details)	8 Pcs.
	18" MIN. VENT AREA	
	36" MIN. ROOF ACCESS	
	36" GROUND ACCESS AREA	
	EXISTING UTILITY METER	

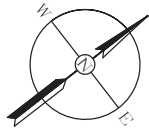


NOTE: THIS ROOF WILL HAVE (8) (REC 405 AA) 405 WATT PV MODULE PANELS WITH KW OUTPUT OF (3.240 KW) AND (8) IQ7PLUS-72-B-US MICRO INVERTERS.

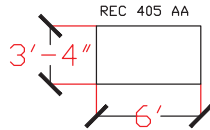
SOLAR PANEL LAYOUT #1

SCALE 3/16"=1'-0"

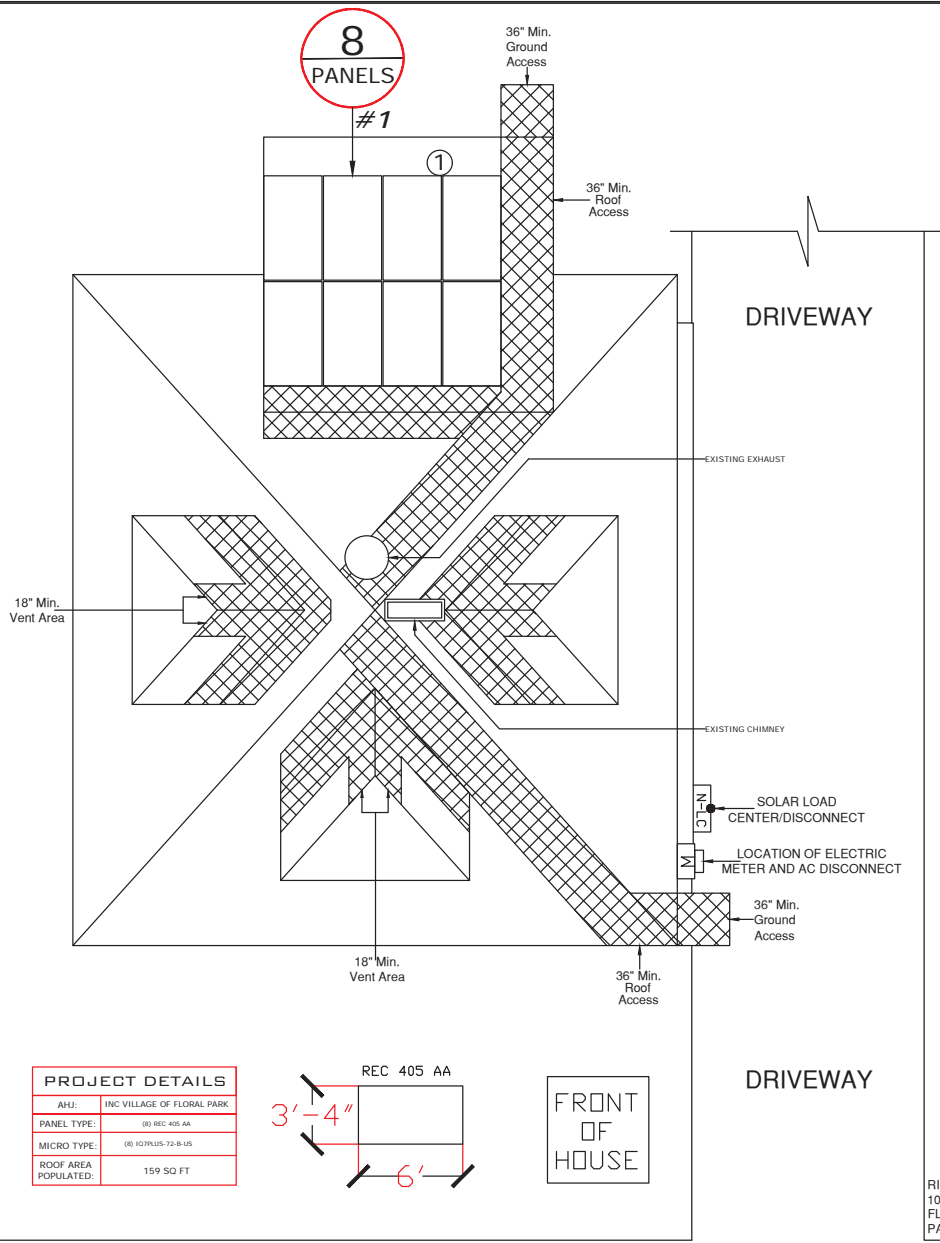
TITLE: ROOF PANEL LAYOUTS		LATITUDE 40.722041	LONGITUDE -73.696728										
CLIENT: RICHARD ZIMMERMAN ADDRESS: 10 ADAMS STREET FLORAL PARK, NY, 11001		 11 TECHNOLOGY DR., EAST SETAUKET, NY, 11733 INFO@GGREENLEAFSOLAR.COM 631-509-1747											
DATE: 8/19/2022	JOB NO: JOB-2022-2380ENG	SCALE: 3/16"=1'-0"											
DRAWN BY: ELIAN VASQUEZ		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>D.B. #</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS		D.B. #	DESCRIPTION						
REVISIONS													
D.B. #	DESCRIPTION												
JAMES J. STOUT R.A. 2 GREG LN. E. NORTHPORT, NY 11731													
		Page No: 4 Page Total: 8											



PROJECT DETAILS	
AHJ:	INC VILLAGE OF FLORAL PARK
PANEL TYPE:	(S) REC 405 AA
MICRO TYPE:	(S) R27PLUS-72-B-US
ROOF AREA POPULATED:	159 SQ FT



FRONT OF HOUSE



RICHARD ZIMMERMAN
10 ADAMS STREET
FLORAL PARK, NY, 11001
PANELS 8

10 ADAMS STREET

TITLE: SOLAR PANEL LAYOUT

DATE: 8/19/2022	JOB NO: JOB-2022-2380ENG	LATITUDE	40.722041
		LONGITUDE	-73.696728
CLIENT: RICHARD ZIMMERMAN	ADDRESS: 10 ADAMS STREET FLORAL PARK, NY, 11001		

REVISIONS

D.B. #	DATE	DESCRIPTION

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2 GREG LN.
E. NORTHPORT, NY 11731



Sheet No: **5**
Page No: **8**

CONDUIT/
RACEWAY

SOLAR
LOAD CENTER

MAIN POINT OF
INTERCONNECTION

UTILITY
METER

WARNING: PHOTOVOLTAIC POWER SOURCE

NEC 690.31 (G) (3)(4)

- CONDUIT LABEL (1) PER 10 FT
- LABELS SHALL APPEAR ON EVERY SECTION OF THE WIRING SYSTEM THAT IS SEPERATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS.

JUNCTION
BOXES

WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

NEC 110.27 (C)

WARNING

ELECTRIC SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

NEC 690.13 (B)

PHOTOVOLTAIC AC DISCONNECT

MAX AC OPERATING CURRENT: **9.68** A
NOMINAL OPERATING VOLTAGE: **240** V

NEC 690.54

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

NEC 690.56 (C) (3)

- SHALL BE LOCATED ON OR NO MORE THAN 3FT FROM THE SWITCH

PV SYSTEM DISCONNECT

NEC 690.13 (B)

PHOTOVOLTAIC AC DISCONNECT

NEC 690.13 (B)

WARNING

ELECTRIC SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

NEC 690.13 (B)

WARNING

POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.

NEC 705.12 (B)(2)(C)

PHOTOVOLTAIC POINT OF INTERCONNECTION

LINE SIDE TAP INSIDE MAIN SERVICE PANEL

WARNING: DUAL POWER SOURCE. MULTIPLE SOURCES OF POWER UTILITY AND SOLAR ELECTRIC SYSTEM

MAX AC OPERATING CURRENT: **9.68** A
NOMINAL OPERATING VOLTAGE: **240** V

NEC 690.54

WARNING

ELECTRIC SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

NEC 690.13 (B) & 110.27 (C)

MAIN POI AND
SOLAR LOAD
NEC 705.10

CAUTION:

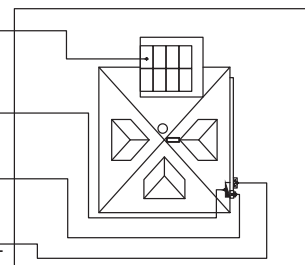
POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECT(S) LOCATED AS SHOWN:

PHOTOVOLTAIC ARRAY ON ROOF

MAIN SERVICE PANEL

UTILITY METER

SOLAR LOAD CENTER/DISCONNECT



10 ADAMS STREET

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

NEC 690.56 (C) (3)

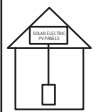
- SHALL BE LOCATED ON OR NO MORE THAN 3FT FROM THE SWITCH

WARNING DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

NEC 705.12 (B)(3-4) & 690.59

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZAR IN ARRAY



NEC 690.56 (C) (1)(A)

- SHALL BE LOCATED NO MORE THAN 3FT FROM THE SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED.

WARNING

ELECTRIC SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

NEC 690.13 (B)

TITLE: SOLAR STICKER

DATE: 8/19/2022

JOB NO.: JOB-2022-2380ENG

DRAWN BY: ELIAN VASQUEZ

LATITUDE
40.722041

LONGITUDE
-73.696728

CLIENT: RICHARD ZIMMERMAN
ADDRESS: 10 ADAMS STREET
FLORAL PARK, NY, 11001

REVISIONS

D.B.#	DATE	DESCRIPTION

SCALE:
NOT TO SCALE

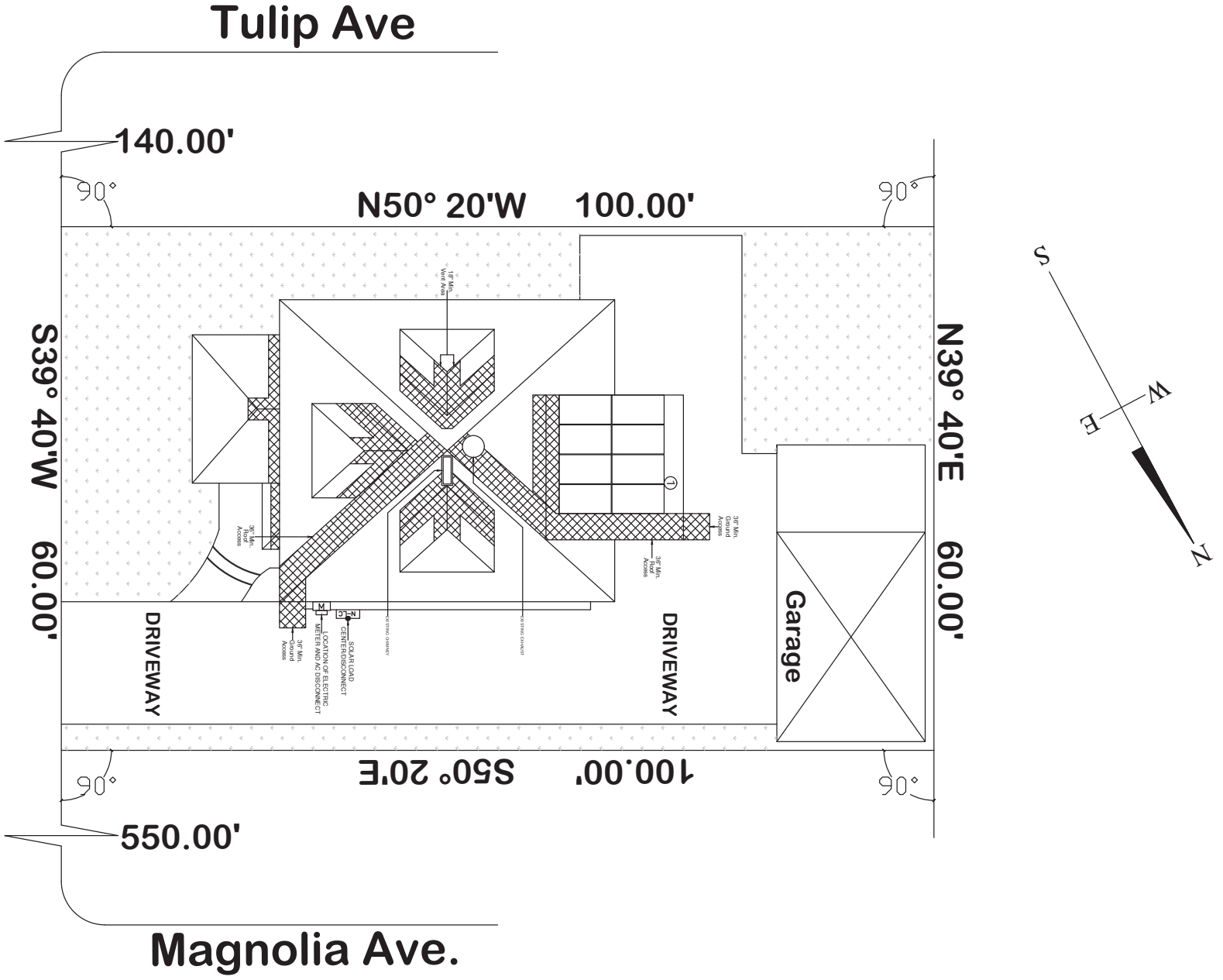


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INFO@GOGREENLEAFSOLAR.COM
631-509-1747

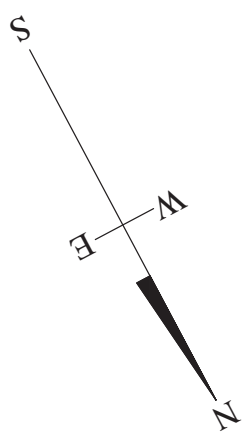
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2 GREG LN.
E. NORTHPORT, NY 11731

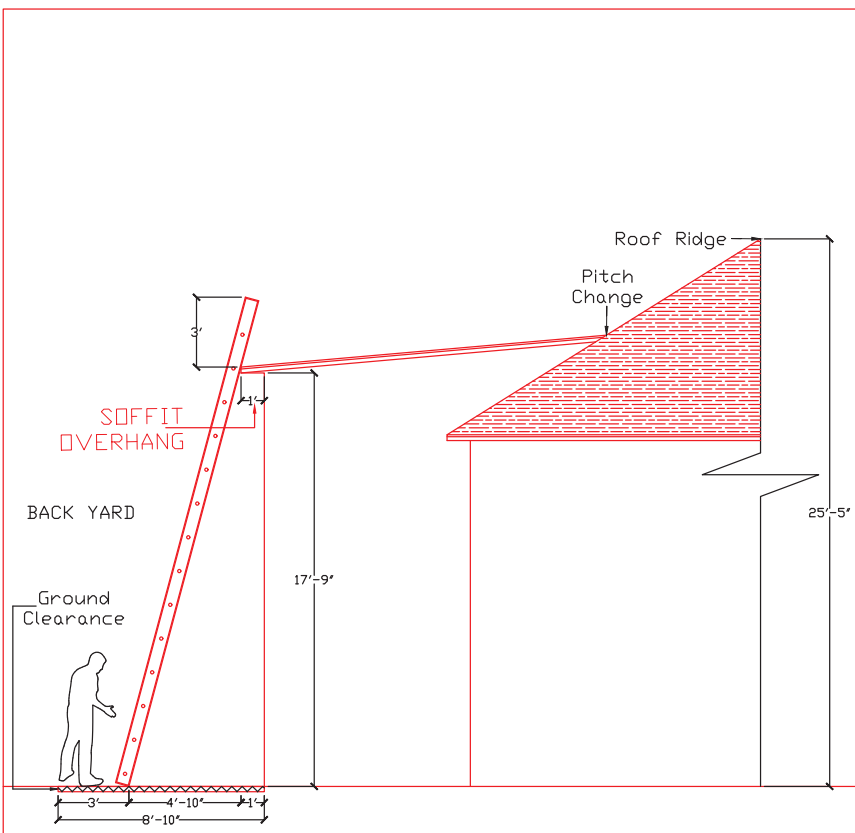


Sheet No. **6**
Page Total **8**

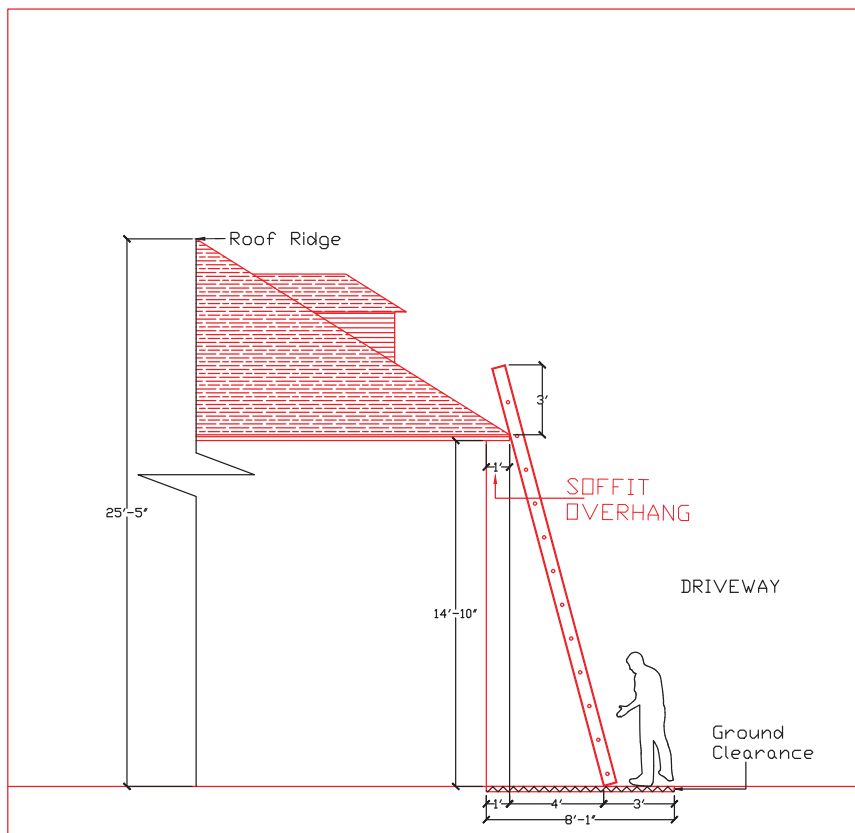


JAMES J. STOUT R.A.		DATE: 8/19/2022		TITLE: PLOT PLAN LAYOUT											
2 GREG LN. E. NORTHPORT, NY 11731		JOB NO.: JOB-2022-2380ENG		CLIENT: RICHARD ZIMMERMAN											
		DRAWN BY: ELIAN VASQUEZ		ADDRESS: 10 ADAMS STREET FLORAL PARK, NY, 11001											
				REVISIONS		LATITUDE: 40.722041 LONGITUDE: -73.696728									
				<table border="1"> <thead> <tr> <th>D.B.#</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		D.B.#	DATE	DESCRIPTION							
D.B.#	DATE	DESCRIPTION													
		11 TECHNOLOGY DR., EAST SETAUKET, NY, 11733 INFO@GGREENLEAFSOLAR.COM 631-509-1747		7 8											





WESTERN FIRE PATH
LADDER SET UP SCALE 3/16"=1'-0"



NORTHERN FIRE PATH
LADDER SET UP SCALE 3/16"=1'-0"

OSHA
1926.1053(a)(1)(ii)
Each portable ladder that is not self-supporting:

At least four times the maximum intended load, except that each extra-heavy-duty type 1A metal or plastic ladders shall sustain at least 3.3 times the maximum intended load. The ability of a ladder to sustain the loads indicated in this paragraph shall be determined by applying or transmitting the requisite load to the ladder in a downward vertical direction when the ladder is placed at an angle of 75 1/2 degrees from the horizontal. Ladders built and tested in conformance with the applicable provisions of appendix A will be deemed to meet this requirement.

TITLE: LADDER SET UP

DATE: 8/19/2022
JOB NO: JOB-2022-2380ENG
DRAWN BY: ELIAN VASQUEZ

LATITUDE: 40.722041
LONGITUDE: -73.696728
CLIENT: RICHARD ZIMMERMAN
ADDRESS: 10 ADAMS STREET
FLORAL PARK, NY, 11001

REVISIONS

D.B. #	DATE	DESCRIPTION

SCALE: 3/16"=1'-0"

8
8

GREENLEAF SOLAR
11 TECHNOLOGY DR., EAST SETAUKET, NY, 11733
INFO@GGREENLEAFSOLAR.COM 631-509-1747

JAMES J. STOUT R.A.
2 GREG LN.
E. NORTHPORT, NY 11731

The Panasonic Advantage

Higher Module Efficiency
Superior module efficiency of 21.2% and 20.6%, respectively, allows maximum power production with less roof space. With one of the industry's lowest annual degradation rates, power output of at least 92% is guaranteed after 25 years.

TripleGuard 25-Year Warranty*
A long-term warranty is only as reliable as the company behind it. TripleGuard covers EverVolt panels for performance, product, parts and labor for 25 years. Whether in year three or year 25, your Panasonic warranty will be there when you need it.

High Efficiency in High Temperatures
Produce more energy throughout the day even on the hottest days in the warmest climates. EverVolt solar panels outperform others when temperatures rise due to our industry-leading 0.26%/°C temperature coefficient.

Heterojunction Cell Technology
Half-cut cells with heterojunction technology minimizes electron loss, maximizes conversion efficiency, and produces considerably higher power output over conventional panels.

Durability & Quality Assurance
N-type cells result in minimal Low Induced degradation (LID) and Potential Induced degradation (PID), which supports reliability and longevity. As a solar pioneer for over 40 years, Panasonic EverVolt solar panels are backed by innovation, experience and a brand you can trust.

Improved Performance When Shaded
Continuous power production in shaded areas for greater energy yields and output. More sunlight absorption means more clean power to your home.



PRELIMINARY

ELECTRICAL SPECIFICATIONS

Model	EVV370	EVV360
Rated Power (P _{max}) ¹	370W	360W
Maximum Power Voltage (V _{mp})	37.7V	37.0V
Maximum Power Current (I _{mp})	9.81	9.72
Open Circuit Voltage (V _{oc})	44.1	44.8
Short Circuit Current (I _{sc})	10.42	10.37
Temperature Coefficient (P _{max})	-0.26 %/°C	-
Temperature Coefficient (V _{oc})	-0.24 %/°C	-
Temperature Coefficient (I _{sc})	0.04 %/°C	-
NOCT	44°C (102°C)	-
CEC PTC Rating	T80	T80
Module Efficiency	21.2%	20.4%
Maximum System Voltage	1000V	-
Maximum Series Fuse	25 A	-
Watt Class Sorting	-0/±5	-

MECHANICAL SPECIFICATIONS

Junction Box	3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62761
Connector Type	SEMIK MCA PV-KETA/KSTA (4 mm ²) in accordance with IEC 62852 (P68 only when connected)
Cable Size / Type	4 mm ² solar cable, 1.0 m + 1.2 m
Max Snow Load (F) ²	144 psf (7000 Pa) ²
Max Wind Load (F) ²	80 psf (4000 Pa) ²
Dimensions LxWxH	67.8 x 40.8 x 1.2 in (1721 x 1016 x 30 mm)
Weight	43.0 lbs (19.5 kg)
Pallet Dimensions LxWxH	70 x 42 x 4.8 in
Quantity per Pallet / Pallet Weight	33 pcs / 1512 lbs, 684 kg
Quantity per 40' Container	858 pcs

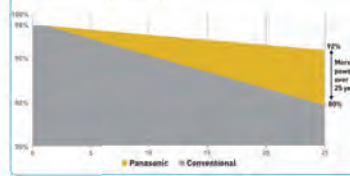
*Net Load. Design Load should be multiplied by load factor.

OPERATING CONDITIONS AND SAFETY RATINGS

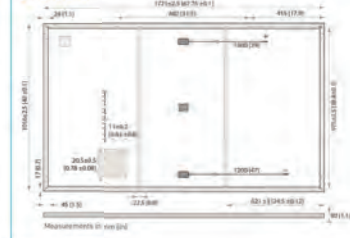
Certifications	IEC 61215:2016, IEC 61730:2016, UL 1703, UL 61730, IEC 62804 (P68), IEC 61701 (Salt Mist)	
	IEC 62711 (Ammonia Resistance), ISO 11925-2 (Ignitability Class E), UN 38.5/1774 (Stability Class 1L), IEC 62762 (Dynamic Mechanical Load), IEC 61215-2:2016 (Halotest 35mm), AS/NZS 2 NCC 2014 (Cyclic Wind Load)	
	Operating Temperature	-40°F to 105°F (-40°C to 39°C)
	Limited Warranty	25 [†] Yrs Workmanship and Power Output Guarantee**
	Power Output in Year 1	98%
Annual Degradation	0.25%	
Power Output in Year 25	92%	

NOTE: Values at standard test conditions (STC) or mass AMP 5 irradiance 1000W/m², temperature 25°C based on production spread with a tolerance of Plus, Vol & Inc <±3% within one watt class.
¹ Maximum power at standard test conditions. For guarantee conditions, please check our guarantee document.
² Installation need to be supported through our website www.panasonic.com/usa/solar within 60 days in order to receive twenty five (25) year Product Workmanship. Otherwise, Product Workmanship will be only fifteen (15) years.
[†] Equipment must be installed by a Panasonic Authorized Premium, at site installer and registered at www.panasonic.com/usa/solar within 60 days in order to receive twenty-five (25) year TripleGuard warranty. Please see installation manual for detailed mechanical loading information.
^{**} 1st year 98%, after 2nd year 0.25% annual degradation by year 25.

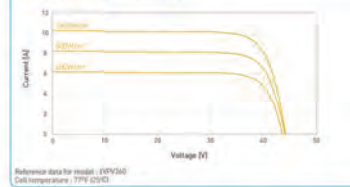
PERFORMANCE WARRANTY



DIMENSIONS



DEPENDENCE ON IRRADIANCE



Reference data for model: (EVV360) Cell temperature: 77°F (25°C)



NOTE: Specifications and information above may change without notice.
CAUTION! Please read the installation manual carefully before using the products.
 Use electrical and electronic products must not be mixed with general household waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.

PRELIMINARY

JAMES J. STOUT R.A.
2 GREG LN,
E. NORTHPORT, NY 11731

NOT TO
BE
REVIEWED
OR
STAMPED

DATE: 07/20/2022

JOB NO.: 2022-GLS0099067345

DRAWN BY: Felix Gonzalez

REVISIONS

D.B. #	DATE	DESCRIPTION

TITLE: SOLAR PANEL SPEC SHEET

CLIENT: Richard Zimmerman
ADDRESS: 10 Adams Street, Floral Park, NY 11001

LATITUDE
40.722047
LONGITUDE
-73.696732



11 Technology Dr, East Setauket, NY 11733
info@GoGreenLeafSolar.com

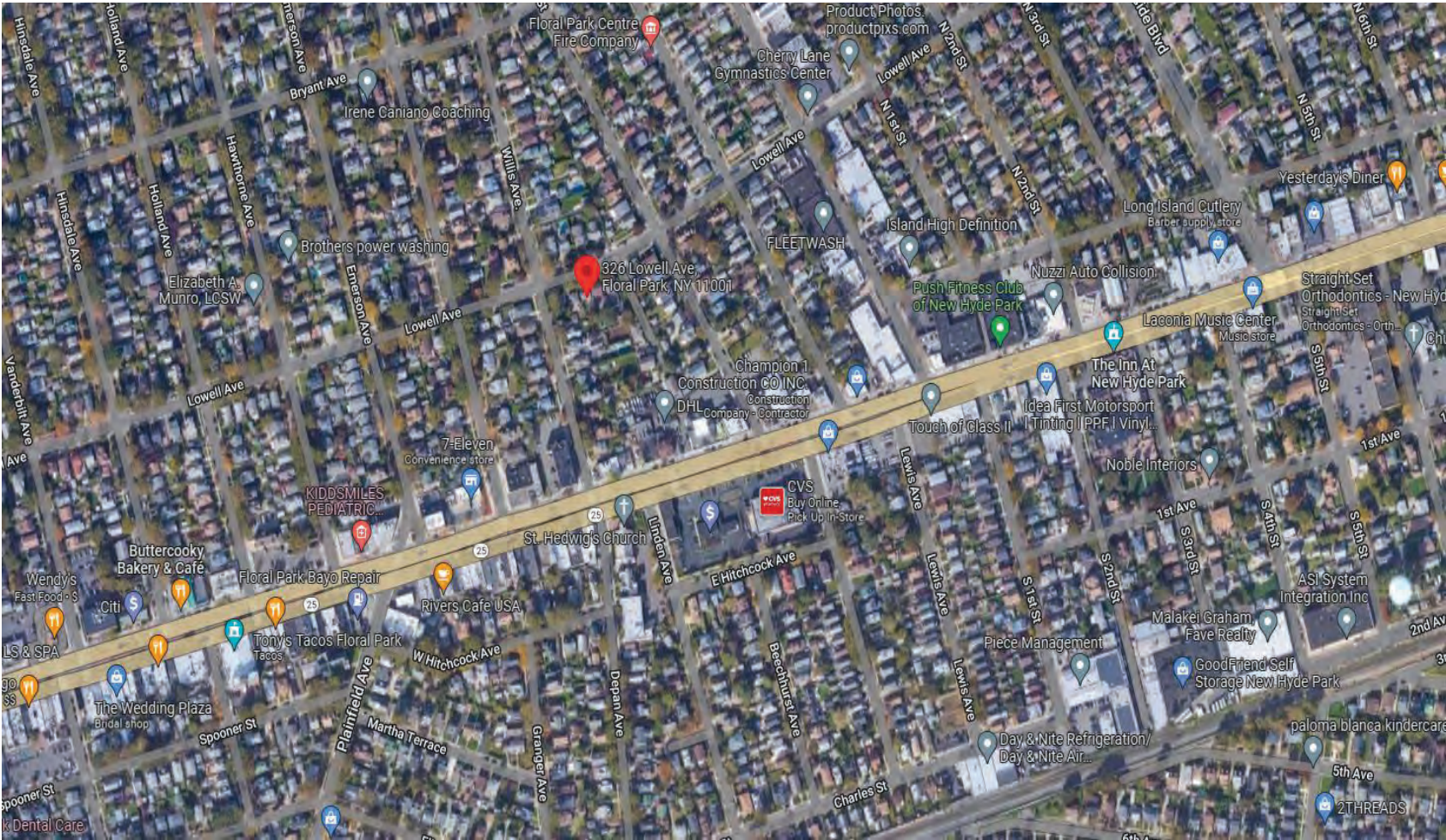
SCALE:
NO SCALE

631-509-1747

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
8	8:35 p.m.	326	Lowell Avenue	Solar Panels	Sung Hsin-Yeh	Kamtech Solar Solutions



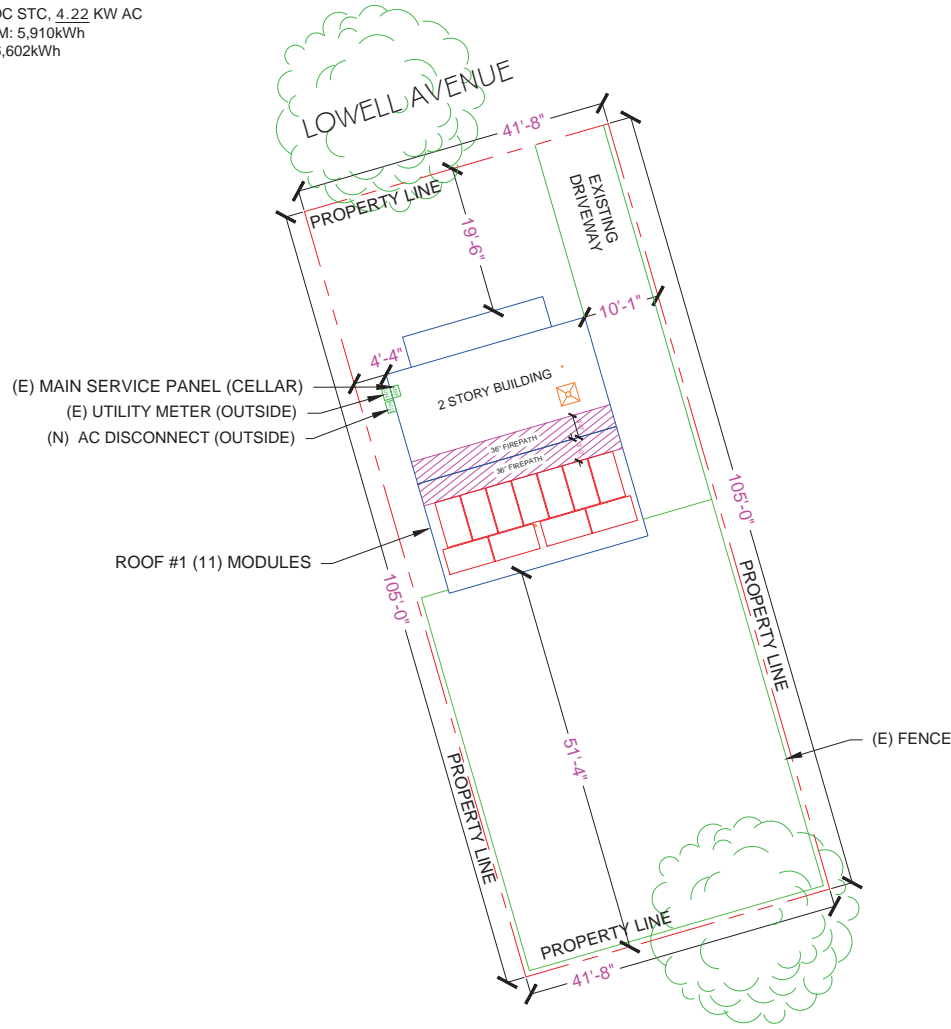
326 Lowell Avenue (Aerial View)



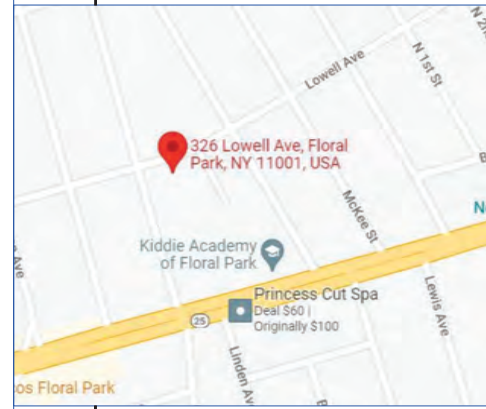
PROJECT DESCRIPTION:

- (11) SUNPOWER SPR-M425-H-AC (425W) MODULES
- (11) ENPHASE IQ7HS MICROINVERTER
- ROOF MOUNTED SOLAR PHOTOVOLTAIC MODULES

SYSTEM SIZE: 4.68 KW DC STC, 4.22 KW AC
 PRODUCTION OF SYSTEM: 5,910kWh
 PRODUCTION NEEDED: 6,602kWh



2 HOUSE PHOTO
 PV-1 SCALE: NTS



3 VICINITY MAP
 PV-1 SCALE: NTS

APPLICABLE CODES & STANDARDS
 2020 RESIDENTIAL CODE OF NEW YORK STATE (RCNYS)
 NATIONAL ELECTRICAL CODE (NFPA70)/2017

#	DATE	REVISION DESCRIPTION
	08/24/2022	ADD ELEVATION VIEWS PAGES

OWNER:
SUNG HSIN-YEH
 326 LOWELL AVENUE
 FLORAL PARK, NY, 11001



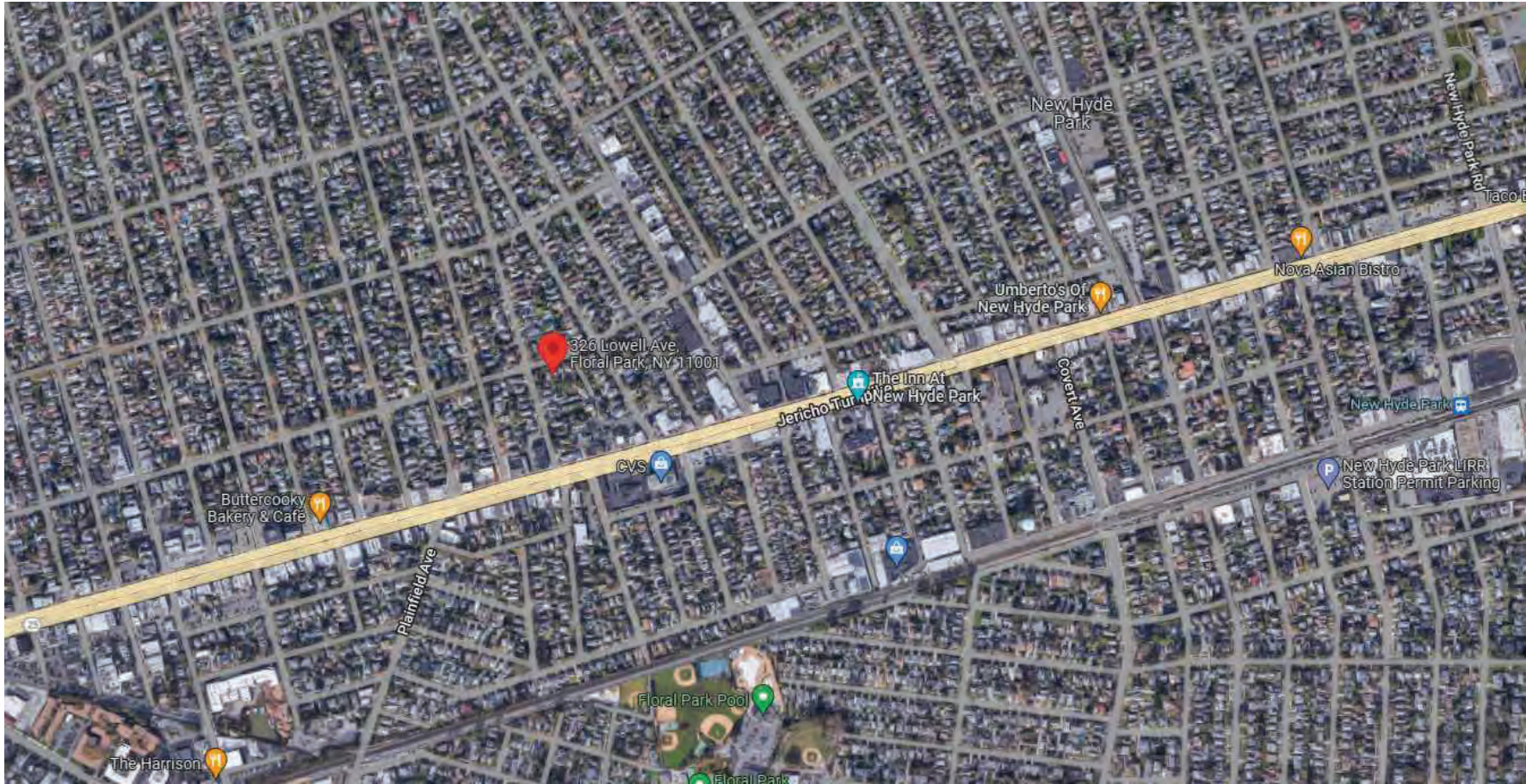
ARCHITECT: CHUN FENG
 PHONE: 201-638-5851
 EMAIL: CFENG3000@GMAIL.COM



PAGE NAME: PLOT PLAN	
DWG NO: PV-1	INSTALL NO.:
DESIGNER:	QC BY:
SYSTEM SIZE: 5.10KW	DATE: 08/24/2022

1 PLOT PLAN WITH ROOF PLAN
 PV-1 SCALE: 1/16" = 1'-0"



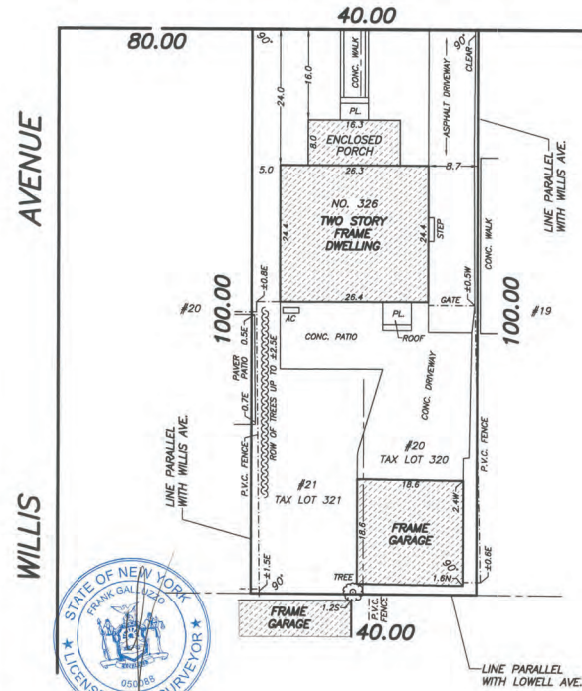


08/24/2022		ENPH	
#	DATE	REVISION DESCRIPTION:	
	08/24/2022	ADD ELEVATION VIEWS PAGES	
OWNER: SUNG HSIN-YEH 326 LOWELL AVENUE FLORAL PARK, NY, 11001			
CONTRACTOR: Kamtech SOLAR SOLUTIONS			
ARCHITECT: CHUN FENG PHONE: 201-638-5851 EMAIL: CFENG3000@GMAIL.COM			
			
PAGE NAME: SITE LOCATION			
DWG NO:	PV-2	INSTALL NO:	
DESIGNER:		QC BY:	
SYSTEM SIZE:	5.10KW	DATE:	08/24/2022

REF. NO. NB-64-320

MAP OF PROPERTY SITUATED IN
FLORAL PARK
 MASSAU COUNTY, N.Y.
 TAX SECT.: 8 TAX BLOCK: 64 TAX LOT(S): 320 & 321

LOWELL AVENUE



LOT 20 AND 21 IN BLOCK 14 ON
 "MAP OF FLORAL PARK HOMES, SEC. 'A'"
 FILED ON MAY 8, 1906 AS MAP #53 CASE #388
 SCALE: 1"=16'

SURVEYED: NOVEMBER 2, 2020

UNAUTHORIZED ALTERATIONS AND/OR ADDITIONS TO THIS SURVEY BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY. CERTIFICATIONS INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, THE TITLE COMPANY, THE GOVERNMENTAL AGENCY AND THE LENDING INSTITUTION LISTED ON THIS SURVEY MAP. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS AND/OR SUBSEQUENT OWNERS. FENCE OFFSETS TAKEN AT POST. ENCROACHMENTS OR WALLS BELOW SURFACE ARE NOT SHOWN. RIGHT OF WAYS AND/OR EASEMENTS OF RECORD NOT SHOWN ON THIS SURVEY ARE NOT CERTIFIED. OFFSETS AND DIMENSIONS HEREON ARE FOR A SPECIFIC PURPOSE AND ARE NOT TO BE USED IN THE ERECTION OF ADDITIONAL STRUCTURES, FENCES OR OTHER IMPROVEMENTS.

CERTIFIED TO: TITLE NO. CL-25580-N
 STEWART TITLE INSURANCE COMPANY
 CORNERSTONE LAND ABSTRACT, LLC
 CITIZENS BANK, N.A., ISACA/ATIMA
 SUNG HSIN YEH AND HEI LIN HONG

Empire State Land Surveyor, P.C.
 Frank I. Galluzzo Professional Land Surveyor
 Records of Albert A. Bianco
 Stephen J. Reid - M. Berry Carman - G. W. Haviland
 Vandewater & Lapp - Robert E. Carlin - William J. Daly
 1005 Glen Cove Avenue, Glen Head, NY, 11545
 empiresurveyors@aol.com | (516)-240-6901

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DRAWN BY: FG

REVISION DESCRIPTION:	DATE	#
ADD ELEVATION VIEWS PAGES	08/24/2022	

OWNER:
SUNG HSIN-YEH
 328 LOWELL AVENUE
 FLORAL PARK, NY, 11001

CONTRACTOR:

ARCHITECT: CHUN FENG
 PHONE: 201-638-5851
 EMAIL: CFENG3000@GMAIL.COM

REGISTERED ARCHITECT
 CHUN FENG
 STATE OF NEW YORK
 019517

PAGE NAME:
 LAND SURVEY

DWG NO: PV-3	INSTALL NO:
DESIGNER:	QC BY:
SYSTEM SIZE: 5.10KW	DATE: 08/24/2022

MODULE TYPE, DIMENSIONS & WEIGHT

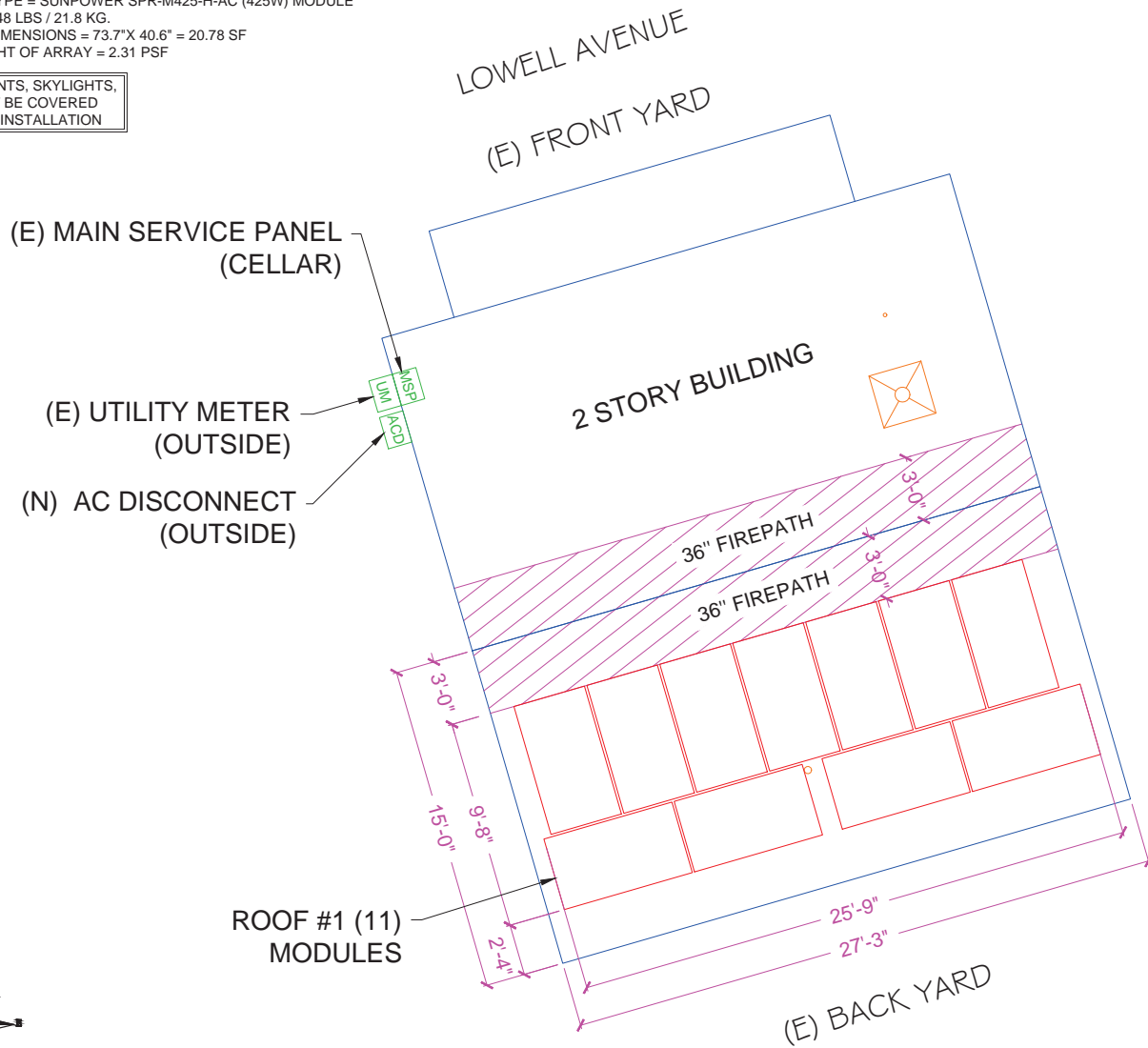
NUMBER OF MODULES = 11 MODULES
 MODULE TYPE = SUNPOWER SPR-M425-H-AC (425W) MODULE
 WEIGHT = 48 LBS / 21.8 KG.
 MODULE DIMENSIONS = 73.7"X 40.6" = 20.78 SF
 UNIT WEIGHT OF ARRAY = 2.31 PSF

ROOF VENTS, SKYLIGHTS,
 WILL NOT BE COVERED
 UPON PV INSTALLATION



1 ROOF PLAN & MODULES

PV-4 SCALE: 3/16" = 1'-0"



ARRAY AREA CALC'S				
ARRAY	# OF MODULES	ARRAY AREA (Sq. Ft.)	TOTAL ROOF AREA (Sq. Ft.)	PERCENTAGE AREA OF ROOF COVERED BY SOLAR ARRAY (%)
#1	11	192.94	408.75	47.20

ARRAY DESCRIPTION		
ARRAY TYPE		
ARRAY	ARRAY TILT	AZIMUTH
#1	35°	164°

LEGEND

- UM - UTILITY METER
- MSP - MAIN SERVICE PANEL
- ACD - AC DISCONNECT
- □ - VENT, ATTIC FAN (ROOF OBSTRUCTION)
- - PV MODULES
- BUILDING OUTLINE

08/24/2022	ENR/
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REVISION DESCRIPTION:	
-----------------------	--

OWNER:
SUNG HSIN-YEH
 328 LOWELL AVENUE
 FLORAL PARK, NY, 11001



CONTRACTOR:

ARCHITECT: CHUN FENG
 PHONE: 201-638-5851
 EMAIL: CFENG3000@GMAIL.COM



PAGE NAME: ROOF PLAN	
DWG NO: PV-4	INSTALL NO:
DESIGNER:	QC BY:
SYSTEM SIZE: 5.10KW	DATE: 08/24/2022



08/24/2022
ENPH

REVISION DESCRIPTION:

OWNER:
SUNG HSIN-YEH
328 LOWELL AVENUE
FLORAL PARK, NY, 11001

CONTRACTOR:
Kamtech
SOLAR SOLUTIONS

ARCHITECT: CHUN FENG
PHONE: 201-638-5851
EMAIL: CFENG3000@GMAIL.COM



PAGE NAME:
EXTERIOR PICTURES

DWG NO: PV-5

INSTALL NO:

DESIGNER: QC BY:

SYSTEM SIZE: 5.10KW

DATE: 08/24/2022



08/24/2022
ENPH

REVISION DESCRIPTION:

OWNER:
SUNG HSIN-YEH
328 LOWELL AVENUE
FLORAL PARK, NY, 11001

CONTRACTOR:
Kamtech
SOLAR SOLUTIONS

ARCHITECT: CHUN FENG
PHONE: 201-638-5851
EMAIL: CFENG3000@GMAIL.COM



PAGE NAME:
RENDERINGS

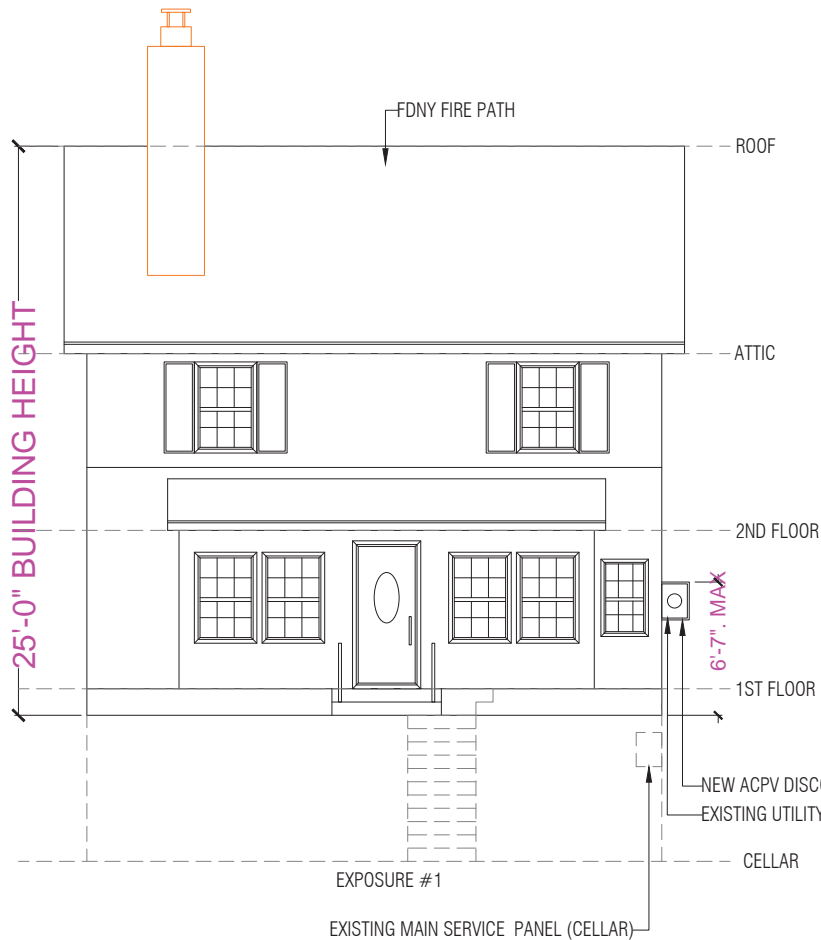
DWG NO: PV-6	INSTALL NO:
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DESIGNER:	QC BY:
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SYSTEM SIZE: 5.10KW	DATE: 08/24/2022
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① NORTH-WESTERN ELEVATION VIEW (FRONT)
3/16" = 1'-0"

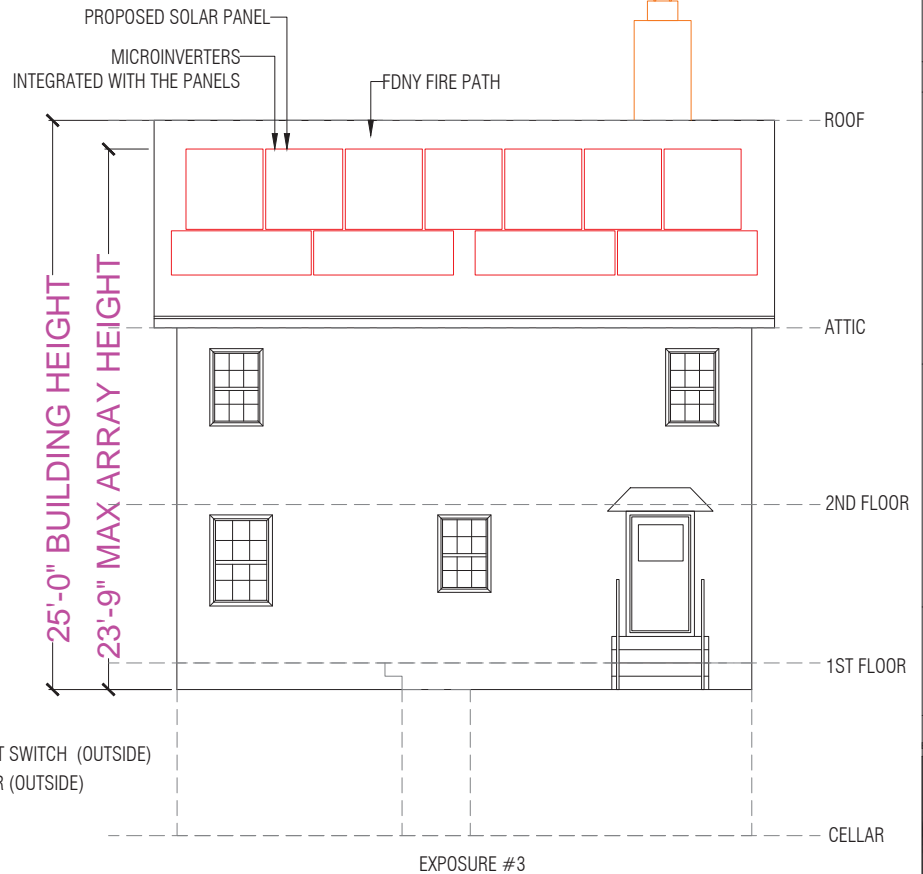
NORTH-WEST
ARRAY AZIMUTH: N/A
ROOF PITCH: 35°





LOWELL AVENUE

① SOUTH-EASTERN ELEVATION VIEW (BACK)
3/16" = 1'-0"

SOUTH-EAST
ARRAY AZIMUTH: 164°
ROOF PITCH: 35°



08/24/2022	ENR1				
REVISION DESCRIPTION:					
#					
OWNER:					
SUNG HSHIN-YEH 336 LOWELL AVENUE FLORAL PARK, NY, 11001					
CONTRACTOR:					
					
ARCHITECT: CHUN FENG					
PHONE: 201-638-5851					
EMAIL: CFENG3000@GMAIL.COM					
REGISTERED ARCHITECT					
					
PAGE NAME:					
ELEVATION					
DWG NO:	PV-7			INSTALL NO:	
DESIGNER:				QC BY:	
SYSTEM SIZE:	5.10KW			DATE:	08/24/2022

1 NORTH-EASTERN ELEVATION VIEW (SIDE)

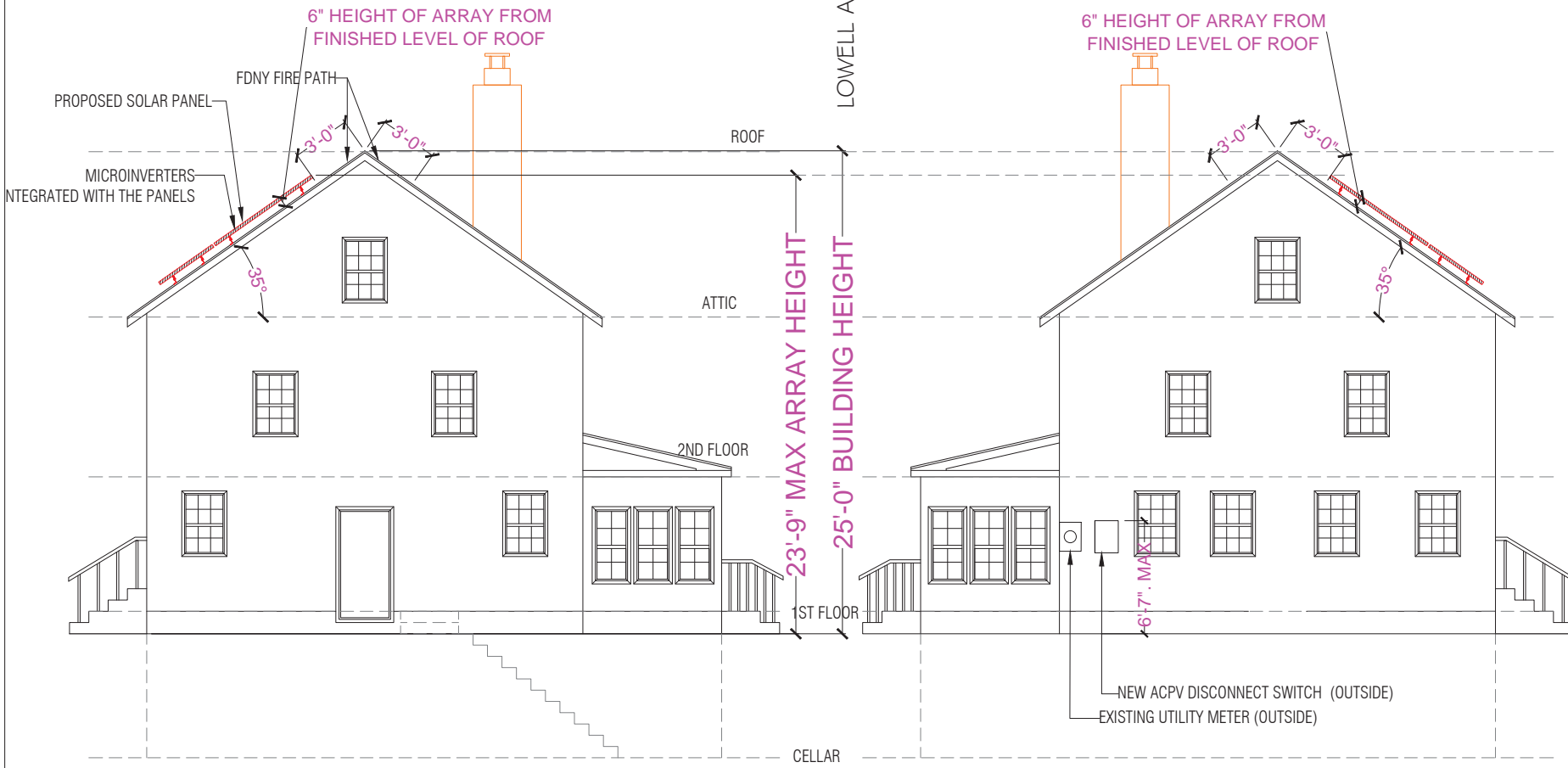
SCALE: 3/16" = 1'-0"

NORTH-EAST
ARRAY AZIMUTH: 164°
ROOF PITCH: 35°

2 SOUTH-WESTERN ELEVATION VIEW (SIDE)

SCALE: 3/16" = 1'-0"

SOUTH-WEST
ARRAY AZIMUTH: 164°
ROOF PITCH: 35°

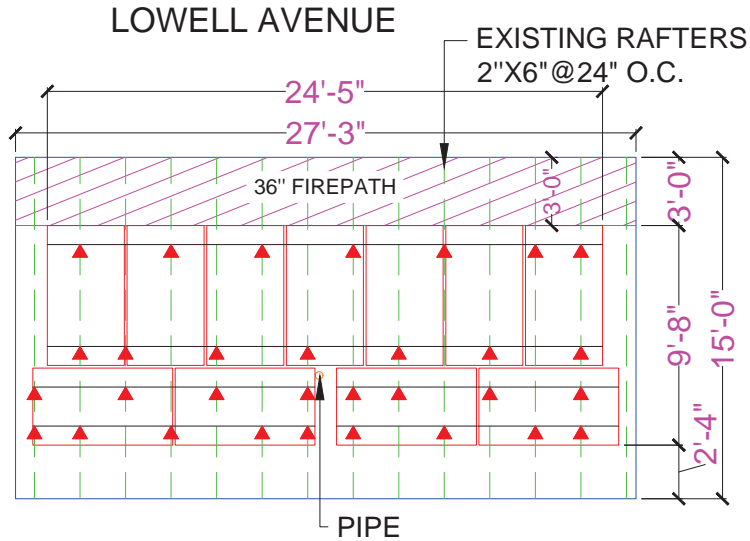


EXPOSURE #2 >

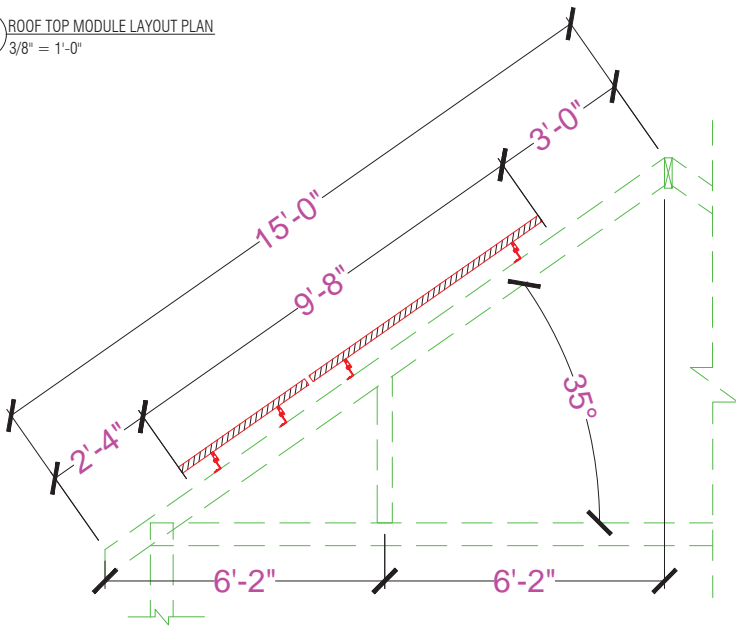
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REVISION DESCRIPTION:					
#					
OWNER: SUNG HSIN-YEH 328 LOWELL AVENUE FLORAL PARK, NY, 11001					
CONTRACTOR: Kamtech SOLAR SOLUTIONS					
ARCHITECT: CHUN FENG PHONE: 201-638-5851 EMAIL: CFENG3000@GMAIL.COM					
					
PAGE NAME: ELEVATION					
DWG NO: PV-7.1	INSTALL NO:				
DESIGNER:	QC BY:				
SYSTEM SIZE: 5.10KW	DATE: 08/24/2022				

1 ROOF TOP MODULE LAYOUT PLAN
SCALE: 3/16" = 1'-0"

SOUTH-EAST
AZIMUTH: 164°
PITCH: 35°



2 ROOF TOP MODULE LAYOUT PLAN
3/8" = 1'-0"



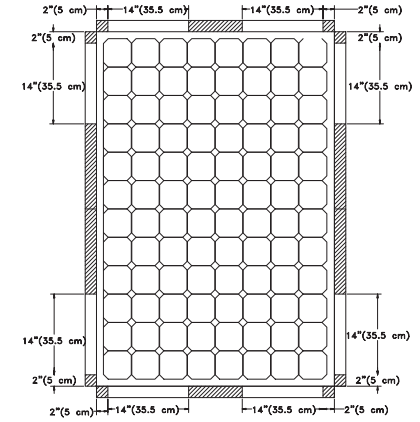
ROOF	AZIMUTH	TILT	ROOF JOIST SIZE & SPACING
SOUTH-EAST	164°	35°	2"X6" @ 24" O.C

WIND SPEED	130 MPH
SNOW LOAD	20 PSF
DEAD LOAD	336.77IBS
ROOF CONST.	WOOD RAFTERS WITH SHINGLES
DWELLING AGE	99 YEARS; 1923

LEGEND

- PV MODULES
- BUILDING OUTLINE
- VENT, ATTIC FAN (ROOF OBSTRUCTION)
- ▲ - ROOF ATTACHMENT
- RAIL
- RAFTERS
- 3' - 0" FIRE PATH SETBACK

3 SUNPOWER MODULE DETAILS AND RAIL MOUNTING ALLOWANCE STANDARDS
SCALE: NTS



INVISIMOUNT RAIL MOUNTING ALLOWANCE STANDARDS FOR 96 CELL MODULE REGIONS ONLY. RAILS MAY BE POSITIONED A MINIMUM OF 2" (5cm) BUT NOT MORE THAN 16" (40.6cm) FROM ANY MODULE CORNER.
NOTE: MAXIMUM ARRAY WIDTH IS 40' (12.2m). TO INSTALL ADDITIONAL MODULES BEYOND THIS MAXIMUM INSTALLER MUST BEGIN A NEW ARRAY. MINIMUM DISTANCE BETWEEN ARRAYS IS 2"(5CM).

STRUCTURAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
2. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR THE PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO.
3. THE EXISTING ROOF STRUCTURAL MEMBERS WITHOUT ADDITIONAL REINFORCEMENT ARE ADEQUATE TO SUPPORT THE LIVE, SNOW, AND WIND DESIGN LOADS REQUIRED BY THE BUILDING CODE IN ADDITION TO THE EXISTING DEAD LOAD AND THE SELF-WEIGHT OF THE PV MODULES AND MOUNT RAIL SYSTEM AS SHOWN ON THESE DRAWINGS.
4. THE STRUCTURAL ANALYSIS WAS PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND THE ASCE 7-10 STANDARD, BASED ON THE FOLLOWING DESIGN CRITERIA:

GROUND SNOW LOAD = 20 PSF

BASIC WIND SPEED = 130 MPH (RISK CATEGORY II)
5. THE 5/16" Ø STAINLESS STEEL HEX LAG SCREWS 4" LONG WITH A 2 1/2" MIN. EMBEDMENT INTO CENTER OF RAFTERS ARE ADEQUATE TO SUPPORT THE MAXIMUM WIND UPLIFT DESIGN LOAD ACTING ON THE MODULES. PROVIDE CHEMLINK M-1 SEALANT OR APPROVED EQUAL AT LAG SCREWS PENETRATION POINTS.
6. PV MOUNTING SYSTEM TO ATTACH PANELS TO ROOF STRUCTURE TO BE INVISIMOUNT RAIL MOUNTING SYSTEM BY SUNPOWER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

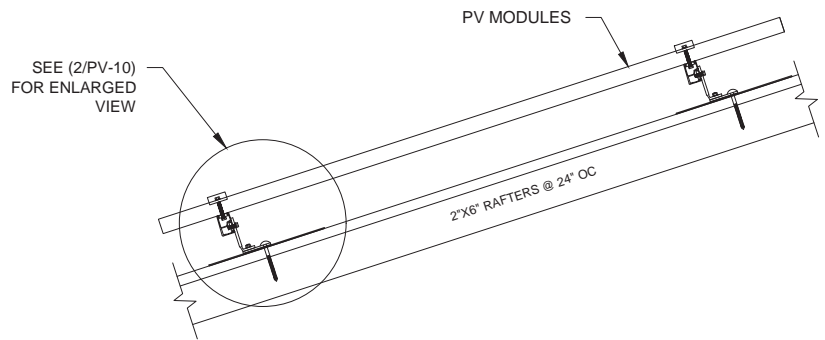
08/24/2022	ENR/						
REVISION DESCRIPTION:							
#							
OWNER:							
SUNG HSIN-YEH 338 LOWELL AVENUE FLORAL PARK, NY, 11001							
CONTRACTOR:							
ARCHITECT: CHUN FENG PHONE: 201-438-5851 EMAIL: CFENG3000@GMAIL.COM							
PAGE NAME: ROOF PLAN							
DWG NO:	PV-8	INSTALL NO:					
DESIGNER:			QC BY:				
SYSTEM SIZE:	5.10KW	DATE:	08/24/2022				



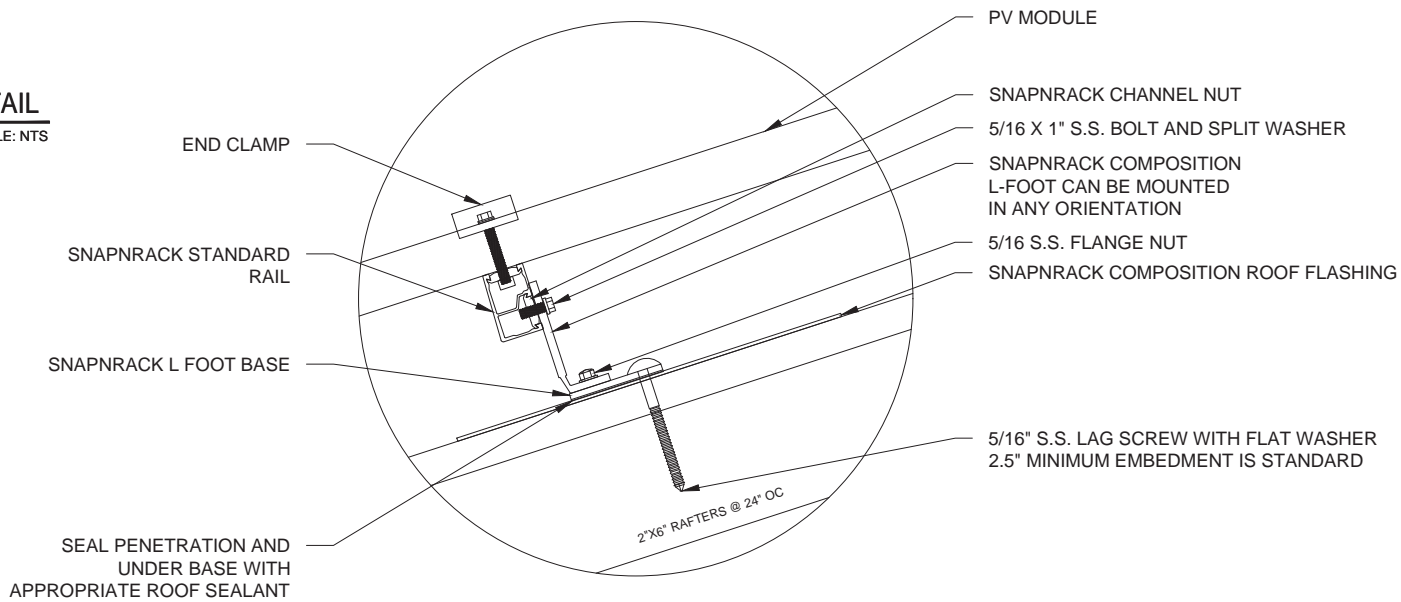
ROOFING: SHINGLES

COLOR: GRAY

08/24/2022		ENPH	
REVISION DESCRIPTION:			
#			
OWNER:		SUNG HSIN-YEH 328 LOWELL AVENUE FLORAL PARK, NY, 11001	
CONTRACTOR:			
ARCHITECT: CHUN FENG		PHONE: 201-638-5851 EMAIL: CFENG3000@GMAIL.COM	
			
PAGE NAME: ROOF MATERIAL			
DWG NO:	PV-9	INSTALL NO:	
DESIGNER:		QC BY:	
SYSTEM SIZE:	5.10KW	DATE:	08/24/2022



1 ATTACHMENT DETAIL
PV-10 SCALE: NTS



2 ATTACHMENT DETAIL (ENLARGED VIEW)
PV-10 SCALE: NTS

08/24/2022	ENR				
REVISION DESCRIPTION:					
#					
OWNER: SUNG HSIN-YEH 328 LOWELL AVENUE FLORAL PARK, NY, 11001					
CONTRACTOR: Kamtech SOLAR SOLUTIONS					
ARCHITECT: CHUN FENG PHONE: 201-638-5851 EMAIL: CFENG3000@GMAIL.COM					
PAGE NAME: MOUNTING DETAILS					
DWG NO: PV-10	INSTALL NO.:				
DESIGNER:	QC BY:				
SYSTEM SIZE: 5.10KW	DATE: 08/24/2022				

SYSTEM LABELS:

WARNING - DUAL POWER SOURCE
SECOND SOURCE IS PV SYSTEM

LABEL LOCATION: (MP)
PER CODE: NEC 705(D)(3)(4) ITEM #596-00231

PHOTOVOLTAIC AC DISCONNECT

MAXIMUM AC OPERATING CURRENT: **17.60A**

NOMINAL OPERATING AC VOLTAGE: **240 V**

LABEL LOCATION: (ACD)
PER CODE: NEC 690.54 ITEM #596-00239

PHOTOVOLTAIC SYSTEM
EQUIPPED WITH
RAPID SHUTDOWN

LABEL LOCATION: (M)
PER CODE: NEC 690.56(C), MUST BE REFLECTIVE ITEM #596-00677

⚠ WARNING
INVERTER OUTPUT CONNECTION, DO NOT
RELOCATE THIS OVERCURRENT DEVICE.

LABEL LOCATION: (POI)
PER CODE: NEC 705.12(D)(3)(4) ITEM #596-00589

WARNING: PHOTOVOLTAIC
POWER SOURCE

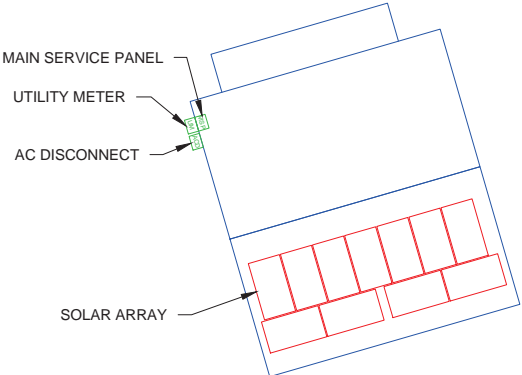

LABEL LOCATION: (C) EVERY 10'
PER CODE: NEC 690.31(E)(3) ITEM #596-00206

⚠ WARNING
INVERTER OUTPUT CONNECTION, DO
NOT
RELOCATE THIS OVERCURRENT DEVICE.

LABEL LOCATION: (D) NEXT TO BREAKER
PER CODE: NEC 705.12(D)(3)(4) ITEM #596-00589

CAUTION:

POWER TO THIS BUILDING IS ALSO
SUPPLIED FROM THE FOLLOWING
SOURCES WITH DISCONNECTS AS SHOWN



326 LOWELL AVENUE, FLORAL PARK, NY 11001, USA

08/24/2022									
ENPH									

REVISION DESCRIPTION:

#

OWNER:
SUNG HSIN-YEH
326 LOWELL AVENUE
FLORAL PARK, NY, 11001

CONTRACTOR:
Kamtech
SOLAR SOLUTIONS

ARCHITECT: CHUN FENG
PHONE: 201-638-5851
EMAIL: CFENG3000@GMAIL.COM



PAGE NAME:
SYSTEM LABELS

DWG NO: PV-11
INSTALL NO:

DESIGNER: QC BY:

SYSTEM SIZE: 5.10KW
DATE: 08/24/2022



SUNPOWER®

420-440W Residential AC Module

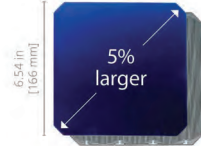
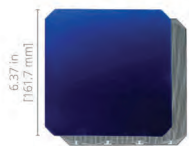
SunPower® Maxeon® Technology

Built specifically for use with the SunPower Equinox® system, the only fully integrated solar solution designed, engineered, and warranted by one company.



Highest Power AC Density Available.

The patented, solid-copper foundation Maxeon Gen 6 cell is over 5% larger than prior generations, delivering the highest efficiency AC solar panel available.¹



Part of the SunPower Equinox® Solar System

- Compatible with mySunPower™ monitoring
- Seamless aesthetics



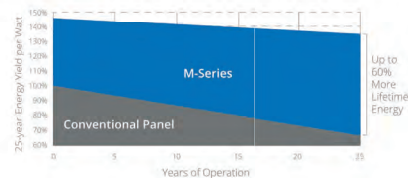
Factory-integrated Microinverter

- Highest-power integrated AC module in solar
- Engineered and calibrated by SunPower for SunPower AC modules



Highest Lifetime Energy and Savings

Designed to deliver 60% more energy over 25 years in real-world conditions like partial shade and high temperatures.²



Best Reliability, Best Warranty

With more than 42.6 million and 15 GW modules deployed around the world, SunPower technology is proven to last. That's why we stand behind our module and microinverter with the industry's best: 25-year Combined Power and Product Warranty.

M-Series: M440 | M435 | M430 | M425 | M420 SunPower® Residential AC Module

AC Electrical Data		
Inverter Model: Type-H (Enphase IQ7HS)	@240 VAC	@208 VAC
Peak Output Power (VA)	384	300
Max. Continuous Output Power (VA)	384	300
Nom. (L-L) Voltage Range (V)	240 / 211-264	208 / 183-229
Max. Continuous Output Current (Amps)	1.60	1.37
Max. Units per 20 A (L-L) Branch Circuit	10	9
CEC Weighted Efficiency	97.0%	96.5%
Nom. Frequency	60 Hz	
Extended Frequency Range	47-68 Hz	
AC Short Circuit Fault Current (Over 3 Cycles)	4.82 A rms	
Overvoltage Class AC Port	III	
AC Port Backfeed Current	18 mA	
Power Factor Setting	1.0	
Power Factor (adjustable)	0.85 (inductive) / 0.85 (capacitive)	

	DC Power Data				
	SPR-M440-H-AC	SPR-M435-H-AC	SPR-M430-H-AC	SPR-M425-H-AC	SPR-M420-H-AC
Nom. Power ¹ (Prom) W	440	435	430	425	420
Power Tolerance	+5/-0%				
Module Efficiency	22.8%	22.5%	22.3%	22.0%	21.7%
Temp. Coef. (Power)	-0.29% / °C				
Shade Tolerance	Integrated module-level max. power point tracking				

Tested Operating Conditions	
Operating Temp.	-40° F to +185° F (-40°C to +85°C)
Max. Ambient Temp.	122° F (50°C)
Max. Test Load ¹	Wind: 125 psf, 6000 Pa, 611 kg/m ² back Snow: 187 psf, 9000 Pa, 917 kg/m ² front
Max. Design Load	Wind: 75 psf, 3600 Pa, 367 kg/m ² back Snow: 125 psf, 6000 Pa, 611 kg/m ² front
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)

Mechanical Data	
Solar Cells	46 Maxeon Gen 6
Front Glass	High-transmission tempered glass with anti-reflective coating
Environmental Rating	Outdoor rated
Frame	Class 1 black anodized (highest AAMA rating)
Weight	48 lb (21.8 kg)
Recommended Max. Module Spacing	1.3 in. (33 mm)

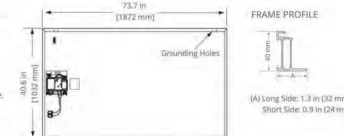
1 Based on datasheet review of websites of top 20 manufacturers per Wood Mackenzie US PV Leaderboard Q3 2021.
 2 Maxeon 435 W, 22.5% efficient, compared to a Conventional Panel on same-sized arrays (260 W, 16% efficient, approx. 1.6 m², 7.9% more energy per watt (based on PVsyst pan files for avg. US climate), 0.5%/yr slower degradation rate (Jordan, et al. "Robust PV Degradation Methodology and Application," PVSC, 2018).
 3 Voltage range can be extended beyond nominal if required by the utility.
 4 Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.
 5 Factory set to IEEE 1547a-2014 default settings. CA Rule 21 default settings profile set during commissioning.
 6 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25°C). All DC voltage is fully contained within the module.
 7 UL Listed as PVRS-E and conforms with NEC 2014 and NEC 2017 690.12; and C22.1-2015 Rule 64-21.8 Rapid Shutdown of PV Systems, for AC and DC conductors; when installed according to manufacturer's instructions.
 8 Please read the safety and installation instructions for more information regarding load ratings and mounting configurations.

See www.sunpower.com/company for more reference information. Specifications included in this datasheet are subject to change without notice.

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Warranties, Certifications, and Compliance	
Warranties	<ul style="list-style-type: none"> • 25-year limited power warranty • 25-year limited product warranty
Certifications and Compliance	<ul style="list-style-type: none"> • UL 1741 / IEEE 1547 • UL 1741 AC Module (Type 2 fire rated) • UL 61730 • UL 62109-1 / IEC 62109-2 • FCC Part 15 Class B • ICS 0003 Class B • CAN/CSA-C22.2 NO. 107.1-01 • CA Rule 21 (UL 1741 SA)¹ • Includes Volt/Var and Reactive Power Priority • UL Listed PV Rapid Shutdown Equipment²
	<p>Enables installation in accordance with:</p> <ul style="list-style-type: none"> • NEC 690.6 (AC module) • NEC 690.12 Rapid Shutdown (inside and outside the array) • NEC 690.15 AC Connectors, 690.33(A)-(E)(1) <p>When used with AC module Q Cables and accessories (UL 6703 and JL 2238):</p> <ul style="list-style-type: none"> • Rated for load break disconnect
PID Test	1000 V; IEC 62804

Packaging Configuration	
Modules per pallet	25
Packaging box dimensions	75.4 × 42.2 × 48.0 in. (1915 × 1072 × 1220 mm)
Pallet gross weight	1300.7 lb (590 kg)
Pallets per container	32
Net weight per container	41,623 lb (18,880 kg)



Please read the safety and installation instructions for details.



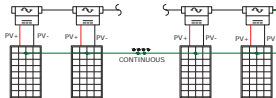
539973 RevB
March 2022

08/24/2022	ENPH																				
REVISION DESCRIPTION:																					
#																					
OWNER: SUNG HSIN-YEH, 328 LOWELL AVENUE, FLORAL PARK, NY, 11001																					
CONTRACTOR: Kamtech SOLAR SOLUTIONS																					
ARCHITECT: CHUN FENG, PHONE: 201-638-5851, EMAIL: CFENG3000@GMAIL.COM																					
REGISTERED ARCHITECT, STATE OF NEW YORK, 019517																					
PAGE NAME: SPEC SHEET																					
DWG NO: PV-12											INSTALL NO:										
DESIGNER:											QC BY:										
SYSTEM SIZE: 5.10KW											DATE: 08/24/2022										

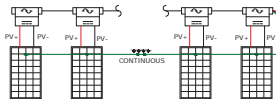
ACCOUNT # : 5527617205
 METER # : 98486981

SYSTEM SIZE: 4.68KW DC, 4.22KW AC
 (11) SUNPOWER SPR-M425-H-AC MODULES
 (11) ENPHASE IQ7HS MICROINVERTERS

STRING 1: (6) PANELS/STRING



STRING 2: (5) PANELS/STRING



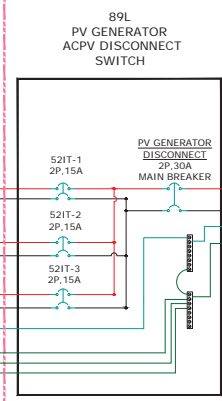
(2) RED #10 AWG PV CABLE,
 (2) BLACK #10 AWG PV CABLE,
 #6 AWG BARE CU GND

(2) RED #10 AWG THWN-2,
 (2) BLACK #10 AWG THWN-2,
 (2) GRN #8 AWG THWN-2 GND
 IN 1" MIN. RMC

COMBINER BOX #1
 SOLADECK 0786-41

IRREVERSIBLE CRIMP

ROOF EXTERIOR WALL



52IT PANEL
 PV LOAD CENTER
 120/240V, 1Ø, 3W,
 125A

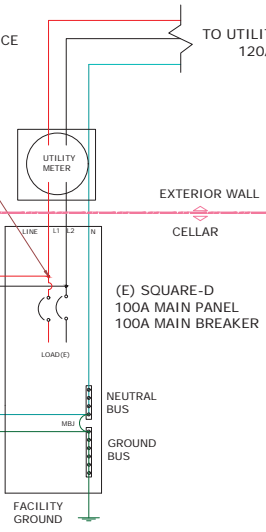
SUNPOWER
 PV SUPERVISOR
 (PVS6)

(1) RED #12 AWG THWN-2,
 (1) BLK #12 AWG THWN-2,
 (1) WHT #12 AWG THWN-2,
 (1) GRN #8 AWG THWN-2 GND
 IN 3/4" MIN. EMT

120/240 VAC
 SINGLE PHASE SERVICE

TO UTILITY (E)
 120/240V

LINE SIDE CONNECTION VIA
 INSULATION PIERCING TAPS



(E) SQUARE-D
 100A MAIN PANEL
 100A MAIN BREAKER

(1) RED #6 AWG THWN-2,
 (1) BLK #6 AWG THWN-2,
 (1) WHITE #6 AWG THWN-2,
 (1) GRN #8 AWG THWN-2 GND
 IN 1" MIN. EMT

(11) SUNPOWER SPR-M425-H-AC MODULES	
Pnom	425W
Power Tolerance	+5/-0%
Temp. Coeff. (Power)	-0.29%/C
Vnom	240V
Imax(AC) /Module	1.60A
Pmax(AC) /Modules	384W
CEC Efficiency	97.0%

WEATHER INFO	
Zip Code	11001
Max Average High	31°C/91.4°F
Record High	35°C/96.8°F
Record Low	-14°C/3.2°F

ELECTRICAL NOTES

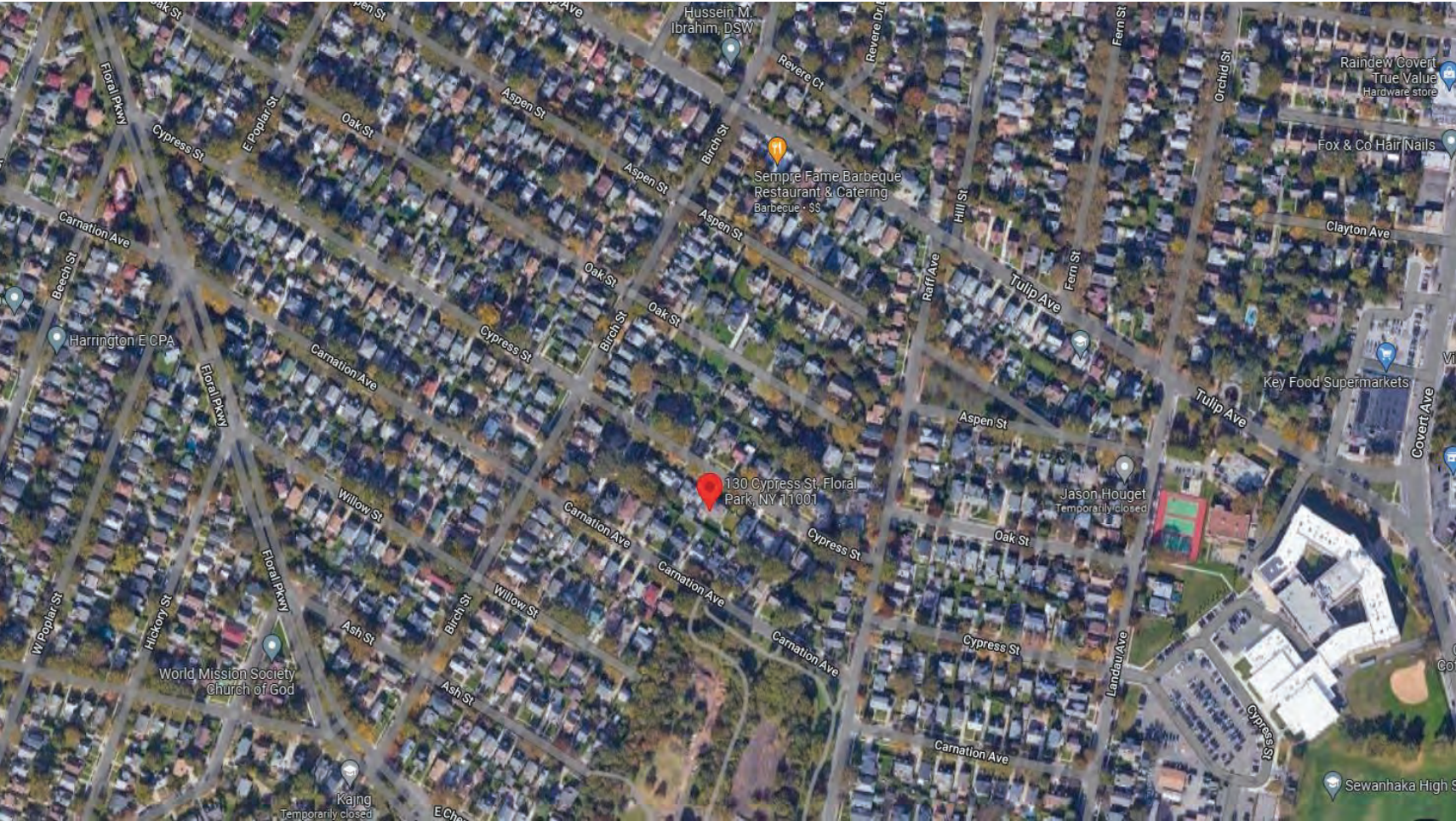
1. ALL CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.
2. AC & DC GROUNDING CONDUCTORS PER NEC ARTICLE 690.47(c)(2) CONNECTED AS PER 250.64(c)(1)
3. ALL EXTERIOR MOUNTED COMBINERS, JUNCTION BOXES, TROUGHS, DISCONNECTS, ETC. SHALL BE MIN. NEMA 3R RATED.
4. CT'S TO BE LOCATED BETWEEN THE MAIN BREAKER AND THE LINE SIDE TAP. LABELS ON THE CT SHOULD BE FACING THE TAP.

08/24/2022	ENPH
REVISION DESCRIPTION:	
#	
OWNER:	SUNG HSIN-YEH 328 LOWELL AVENUE FLORAL PARK, NY, 11001
CONTRACTOR:	Kamtech SOLAR SOLUTIONS
ARCHITECT:	CHUN FENG PHONE: 201-638-5851 EMAIL: CFENG3000@GMAIL.COM
PAGE NAME:	THREE LINE DIAGRAM
DWG NO:	PV-13
INSTALL NO:	
DESIGNER:	QC BY:
SYSTEM SIZE:	DATE:
5.10KW	08/24/2022

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
9	8:40 p.m.	130	Cypress Street	In-Ground Pool	Michael Hatzidakis	Kenneth R. Garvin, AIA



130 Cypress Street (Aerial View)

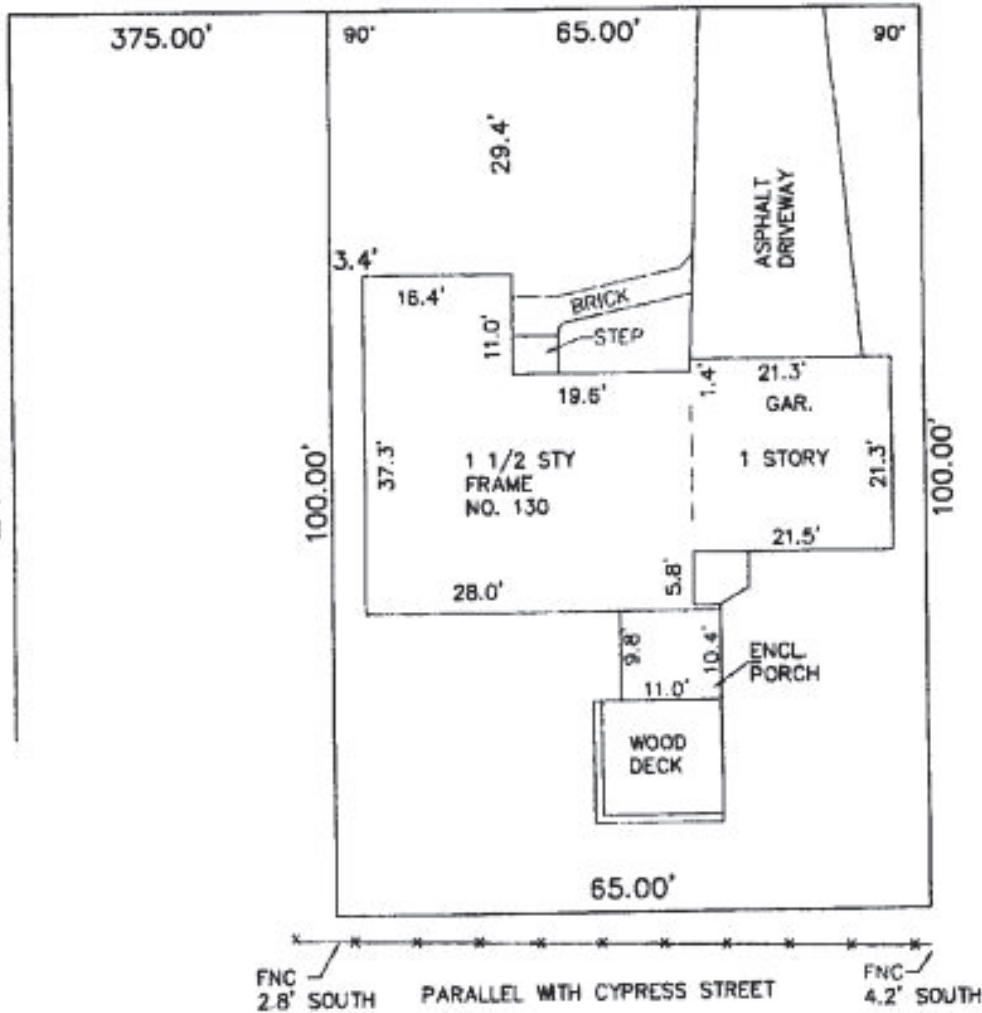


SCALE: 1"=20'



CYPRESS STREET

BIRCH STREET

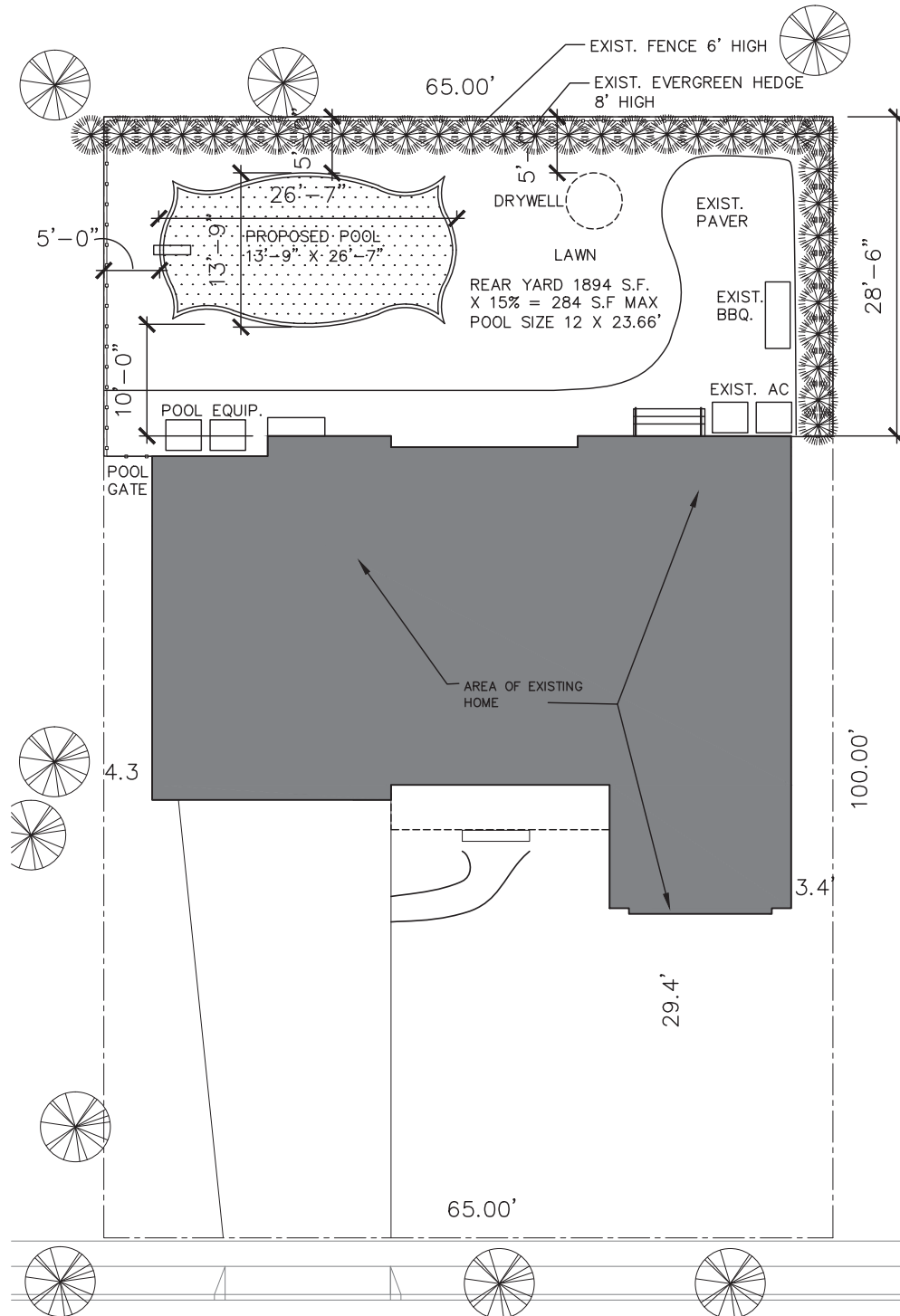


MAP OF LOTS 15, 16, 17 AND THE
EASTERLY 5 FEET OF LOT 18 IN BLOCK 10
AS SHOWN ON

"MAP OF PROPERTY OF FLORAL PARK..."

SITUATED AT

INC. VILLAGE OF FLORAL PARK, TOWN OF HEMPSTEAD
NASSAU COUNTY, NEW YORK.



CYPRESS STREET



1

PROPOSED SITE PLAN

SCALE: 1/8" = 1'-0"

HATZIDAKIS Residence
 PROPOSED IN-GROUND POOL

130 CYPRESS AVE
 FLORAL PARK, NY 11001
 SECTION: 32 BLOCK: 246 LOTS: 15





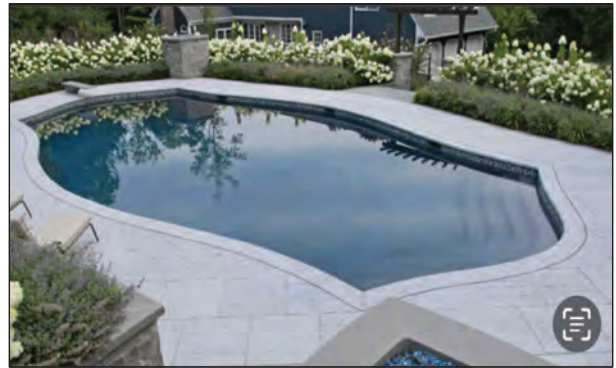
EXISTING YARD LOOKING EAST



EXISTING YARD LOOKING WEST



EXISTING YARD LOOKING NORTH
AT EAST SIDE OF THE HOME



PROPOSED IN-GROUND POOL DESIGN



PROPOSED
POOL
LOCATION

HATZIDAKIS Residence PROPOSED IN-GROUND POOL

130 CYPRESS AVE
FLORAL PARK, NY 11001
SECTION: 32 BLOCK: 246 LOTS: 15