

Department of Community Development

820 Mercer Street, Cherry Hill, NJ 080002 856-488-7870 (Phone) 856-661-4746 (Fax) www.Cherryhill-NJ.com

LAND USE DEVELOPMENT APPLICATION

	Date: <u>3/31/2025</u> NING BOARD		:25-Z-0005 ARD OF ADJUSTMENT	TAXES PAID Y	FICE USE ONLY ES/NO (INITIAL) 00 PROJ. # 00.00 ESCR. # 10251
1. APPLICANT			2. OWNER		
Name: Solar Lar Address: 522 Co	ndscape LLC okman Avenue Unit	3	į .	nbrella LLC (Contact: E	Bernadette Skelly)
Phone:(732)	855-6039* Fax: gs@wilentz.com*	:NJZip:07712 (_732)	_ Phone:(<u>484</u>)_	State:State:State:State:State:	•
3. TYPE OF APPL	ICATION (check	all that apply)			
3. TYPE OF APPLICATION (check all that apply) □ Minor Subdivision □ Preliminary Major Subdivision □ Final Major Subdivision □ Minor Site Plan □ Preliminary Major Site Plan □ Preliminary Major Site Plan □ Final Major Site Plan □ Amended Plan □ Amended Plan □ Street Vacation Request □ Concept Plan □ Other: □ Other: □ Other: □ Other: □ Others					
4. ZONE (check		t and notice is required			
	ENTIAL	COMMERCIAL	OFFICE	OTHER	OVERLAY
RA	RA/PC	B1	01	(IR)	FP
R1	R7	B2	02	IN	SBC
R2	R10	В3	О3		IR/B
R3	R20	В4			A-H/C
5. ATTORNEY (A corporation, partnership, limited liability company or partnership must be represented by a New Jersey Attorney) Name: Donna M. Jennings, Esq. City: Woodbridge State: NJ Zip: 07095 Address: 90 Woodbridge Center Drive Suite 900 Phone: (732) 855-6039 Fax: (732) 726-6560					

6. APPLICANT'S PROFESSIONALS (Engineer, Surveyor, Plants of the Control of the Co	anner, etc.)
Name: Kevin Shelly, PE	Name:Planner TBD
Profession:	Profession:
Address:1985 Highway 34, Suite A7	Address:
City: Wall State: NJ Zip: 07719	City: State: Zip:
Phone:(Phone:(Fax:()
Email: _kshelly@shorepointengineering.com	Email:
7. LOCATION OF PROPERTY	
2 Keystone Ave	Block(s): 493.01
Tract Area:	Lot(s):
8. LAND USE	LOU(S).
Existing Land Use: Commercial/Office	
Proposed Land Use (be specific): Rooftop community solar pa	anels with associated ground-mounted equipment.
9. PROPERTY	
	Proposed Form of Ownership:
Number of Existing Lots: 1	☐ Fee Simple ☐ Condominium *Lessee
Number of Proposed Lots: 1	☑ Rental ☐ Cooperative
Are there Existing Deed Restrictions or Easements?	☑ No ☐ Yes (please attach copies)
Are there Proposed Deed Restrictions or Easements?	☑ No ☐ Yes (please attach copies)
10. UTILITIES (check all that apply)	
	Private well Private septic system
11. APPLICATION SUBMISSION MATERIALS	. See attached cover letter.
List all plans, reports, photos, etc. (use additional sheets if	necessary):
12. PREVIOUS OR PENDING APPLICATIONS	
List all previous or pending applications for this parcel (use	additional sheets if necessary): See attached cover letter.

13. ZONING SCHEDULE (complete all that apply)

	REQUIRED	EXISTING	PROPOSED
Minimum Lot Requirements	13 1-1		
Lot Area	20,000 sf	139,440 sf	No change
Frontage	120 ft	450 ft	No change
Lot Depth	120 ft	132 ft	No change
Minimum Yard Requirements			
Front Yard	30 ft	32.9 ft	No change
Secondary Front Yard	30 ft	None	No change
Rear Yard	20 ft	43.3 ft	No change
Side Yard	10 ft	23.8 ft	No change
Aggregate Side Yard	25 ft	>24 ft	NA
Building Height	35 ft	19 ft	<20 ft*
Lot Requirements			
Residential Buffer Strip	NA	NA	NA
Open Space	25%	7.1%	6.9%
Parking Setbacks		1	Mangle.
Parking Setback to non-residential	5′	NA	NA
Parking Setback to residential	15′	NA	NA
Parking Setback to Right-of-Way	20′	NA	NA

	REQUIRED	EXISTING	PROPOSED
Accessory Uses		A MINISTER	
Garage Area	NA	NA	NA
Garage Height	NA	NA	NA
Fence Height	NA	NA	NA
Pool Depth	NA	NA	NA
Shed Area	NA	NA	NA
Shed Height	NA	NA	NA
Signage Requirements			
Façade Sign area 1	NA	NA	NA
Façade Sign area 2	NA	NA	NA
Freestanding Sign area	NA	NA	NA
Freestanding Sign height	NA	NA	NA
Functional Sign(s) area	NA	NA	NA
Building Façade area	NA	NA	NA
Distance from Driveway	NA	NA	NA
Distance from R.O.W.	NA	NA	NA

Is the proposed site on a inside or corner lot?

Inside Corner

14. PARKING & LOADING REQUIREMENTS

*Solar panels add approximately 9.5 inches

Number of Parking Spaces REQUIRED: NA Number of Loading Spaces REQUIRED: NA Number of Loading Spaces PROVIDED: NA

15. RELIEF REQUESTED (check all that apply)

- ☑ Zoning Variances are requested.
- ☐ Exceptions from Municipal Requirements are requested (N.J.S.A. 40:55D-51).
- ☐ Exceptions from New Jersey Residential Site Improvement Standards (R.S.I.S.) are requested (N.J.A.C. 5:21-3.1).
- □ Waivers from New Jersey Residential Site Improvement Standards (R.S.I.S.) are requested (N.J.A.C. 5:21-3.2). Requires application to and approval of the New Jersey Site Improvement Advisory Board.

For any type of the above relief requested, a separate exhibit should be attached stating the factual basis, legal theory, and/or previously granted relief.

16. SIGNATURE OF APPLICANT

I certify that the foregoing statements and the materials submitted are true. I further certify that I am the individual applicant, or that I am an Officer of the Corporate applicant and authorized to sign the application for the Corporation, or a General Partner of the partnership application.

SWORN & SUBSCRIBED to before me this

Alay of March, 20 25 (year)

(notary)

notary) Donna M. Jennings, Esq.*

*WGS on behalf of Applicant

SIGNATURE (applicant

Lisa Haak Notary Public, State of New Jersey 1.D. No. 50163068

Č4		7. CONSENT OF OWNER		
Kristie T. Radcliffe, Notary Fublic Delaware County Wycommission expires February 28, 202	Commission number 1240065	certify that I am the Owner of the property which is the subject of this application, here to the making of this application and the approval of the plans submitted herewith. I further the inspection of this property in connection with this application as deemed necess for the inspection of this property in connection with this application as deemed necess for the inspection of this property in connection with this application as deemed necess for the inspection of this property in connection with this application as deemed necess for the inspection of this property in connection with this application as deemed necess for the inspection of this property in connection with this application as deemed necess for the inspection of this property in connection with this application as deemed necess for the inspection and officer signature). Supplied to before me this for the plans submitted herewith. I further the inspection of the plans submitted herewith. I further the inspection of the plans submitted herewith. I further the plans submitted herewith. I further the inspection of this property in connection with this application as deemed necess for the plans of the plans submitted herewith. I further the plans submitted herewith.	ner con ary by	sent the
	15000	8. DISCLOSURE STATEMENT (circle all that apply)		
	<u>[</u>	Pursuant to N.J.S.A. 40:55D-48.1 & 48.2, please answer the following questions: Is this application to subdivide a parcel of land into six (6) or more lots? Is this application for a variance to construct a multiple dwelling of twenty-five (25) or more units? Is this application for approval of a site (or sites) for non-residential purposes? Is the applicant a corporation? Is the applicant a limited liability corporation? Is the applicant a partnership? If you responded YES to any of the above, please answer the following (use additional sheets if nece List the names and addresses of all stockholders or individual partners owing at least 10% in class or at least 10% of the interest in partnership (whichever is applicable). Does a corporation or partnership own 10% or more of the stock in this corporation or partnershit the names and addresses of stockholders of that corporation holding 10% or more of the stock greater interest in that partnership (whichever is applicable). This requirement is to be follow corporate stockholder or partnership, until the names and addresses of the non-corporate stockholder or more ownership have been listed. SIGNATURE (applicant)	stock of p? If yearly or 10 ved by	s, list 1% or every
	1	19. SURVEY WAIVER CERTIFICATION		
		As of the date of this application, I hereby certify that the survey submitted with this under the date of	ings, fe fter the	ences, e date
		SWORN & SUBSCRIBED to before me this 23/cl day of December, 2024 (year) Lustre 9 Madely (notary) SIGNATURE (applicant/owner)	ige, bei	ng duly
		FOR OFFICE USE ONLY The application was reviewed in accordance with the rules of the applicable Board and O the Township of Cherry Hill and determined that all the checklist items are in ord application has been deemed complete. The time within which the applicable Board mus application pursuant to N.J.S.A. 40:55d-1 et seq., has commenced from this date.	er and	this

My commission expires February 26, 2028
Commission number 1240065
Member, Pennsylvania Association of Notaries

Commonwealth of Pennsylvania - Notary Seal Kristie T. Radcliffe, Notary Public Delaware County

SIGNATURE (administrative officer)

DATE



DONNA M. JENNINGS, ESQ.

T: 732.855.6039 F: 732.726.6560 djennings@wilentz.com

90 Woodbridge Center Drive Suite 900 Box 10 Woodbridge, NJ 07095-0958 732.636.8000

February 11, 2025

VIA EMAIL

Jacob Richman, Zoning Board of Adjustment Secretary Cherry Hill Township 820 Mercer Street Chery Hill, NJ 08002

> RE: Solar Landscape LLC 2 Keystone Ave Block 493.01, Lot 1 Minor Site Plan and Use Variance

Dear Mr. Richman:

This office represents Solar Landscape LLC (the "Applicant") in this matter. Enclosed, for filing, please find the following:

- 1. Photographs of Existing Building; and
- 2. Structural Feasibility Report, prepared by Exactus Energy Inc., dated June 19, 2024.

Additionally, in response to your e-mail correspondence dated January 24, 2025, the Applicant proposes to install 928 modules, and the energy produced is 542.88 kW DC.

Should you require any additional information, please do not hesitate to contact this office. Thank you for your attention to this matter.

w/encl.

cc: Solar Landscape LLC Kevin Shelly, PE



DONNA M. JENNINGS, ESQ.

T: 732.855.6039 F: 732.726.6560 djennings@wilentz.com

90 Woodbridge Center Drive Suite 900 Box 10 Woodbridge, NJ 07095-0958 732.636.8000

March 7, 2025

VIA EMAIL

Jacob Richman, Zoning Board of Adjustment Secretary Cherry Hill Township 820 Mercer Street Chery Hill, NJ 08002

RE: Solar Landscape LLC
2 Keystone Ave
Block 493.01, Lot 1
Site Plan Waiver with Variances

Dear Mr. Richman:

This office represents Solar Landscape LLC (the "Applicant") in this matter. Enclosed, for filing, please find the following:

- 1. Amended Application Form Pages with Amended Rider.
- 2. Amended Fee Schedule.
- 3. Site Plan Waiver Layout, entitled "Site Plan Waiver Community Solar Rooftop System 2 Keystone Avenue," prepared by Shore Point Engineering, dated February 21, 2025, consisting of three (3) sheets.

In furtherance of your request for additional information regarding the Applicant's compliance with the requirements of the New Jersey Community Solar Energy Program ("CSEP"), please accept this correspondence as the Applicant's statement that they will adhere to all applicable requirements. The Applicant's participation in the CSEP is contingent on adhering to these standards. Importantly, Community Solar Projects in the program are required to serve a majority of low-and-moderate-income customers.

Should you require any additional information, please do not hesitate to contact this office. Thank you for your attention to this matter.

Very truly yours,

DONNA M. JUNNINGS

cc: Applicant

Kevin Shelly, PE

Luke H. Policastro, Esq.

RIDER

Solar Landscape LLC
Site Plan Waiver, Use Variance, and Bulk Variances
2 Keystone Ave
Block 493.01, Lot 1

Applicant's Proposal

Solar Landscape LLC ("Applicant") submits this application for site plan waiver, a use variance, and bulk variances to install rooftop community solar panels on the existing commercial structure with associated ground-mounted equipment located at 2 Keystone Avenue and identified as Block 493.01, Lot 1 on the Township's tax maps. The property is located in the Industrial Restricted (IR) Zone and within the Industrial Restricted—Restricted Business Overlay Zone (IR-RB Overlay) and is approximately 139,440 square feet.

The Applicant proposes to sell the power generated as part of the New Jersey Community Solar Energy Program. Solar energy systems are permitted in every zone so long as the system provides power for the principal use of the property and the power is not generated for commercial purposes pursuant to Ordinance Section 432-C(1)(a). Therefore, the proposed use is not permitted, and the Applicant requires a d(1) use variance. In addition, the Applicant requires the following bulk variances from Ordinance Section 421-E:

Maximum Lot Coverage: 70% permitted / 93.1% proposed

• Minimum Open Space: 25% required / 6.9% proposed

Checklist Item 15. Required Approvals.

- New Jersey Community Solar Energy Program Acceptance
- JCP&L Utility Interconnection
- Department of Community Affairs Building, Electrical, and Fire

Checklist Item 16. Summary of Proposed Operations.

Once installed, employees will be on site regularly other than for routine maintenance. No truck traffic, noise, glare, odors or other hazards are anticipated, as the effect of the solar panels on the Property is de minimis.



Solar Rooftop System – 2 Keystone Avenue Block 493.01, Lot 1 Cherry Hill Township, Camden County, New Jersey

Completeness Checklist Waiver Request

The Applicant is requesting the following submission waivers.

• Number 35 - Building Plans. Proposed structures and uses on the tract, i.e., size, height, location, arrangement, an architect's scaled elevation of the front, side and rear of any structure to be modified, with building lighting details and attached signs.

The application is for roof mounted solar panels and no additional structures are proposed.

• Number 36 - Floor Plans where multiple dwelling units or more than one use is proposed that have different parking standards.

The application is for roof mounted solar panels that will have no impact on the floor plans.

• Number 37 - Signs. Existing and proposed signs, including the location, size, height and necessary measurements and a Sign Location Plan.

The application is for roof mounted solar panels and has no impact on existing signage.

- Number 38 Streets. Existing and proposed street and lot layout, with dimensions correct to scale, showing that portion proposed for development in relation to the entire tract.
 - The application is for roof mounted solar panels and has no impact on existing roadways and is not proposing any roadways.
- Number 39 Easements & ROW. Name, width, and location of existing and proposed easements, rightof-ways, deed restrictions or covenants with reference source. The plans should note if none exist.
 - The application is for roof mounted solar panels and has no impact on existing easements or ROW.
- Number 50 Existing elevations and contour lines over the entire area of the proposed development and two (2) permanent bench marks based upon U.S.G.S. datum.
 - The application is for roof mounted solar panels and has no impact on existing topography.
- Number 51 Contours shall be shown at not more than two (2) foot intervals for areas with less than twenty (20%) percent slope, five (5) foot intervals for areas in excess of twenty (20%) percent slope. The application is for roof mounted solar panels that will have no impact on existing topography.
- Number 52 Proposed grades in sufficient numbers to illustrate the proposed grading scheme. The application is for roof mounted solar panels and has no impact on existing topography.
- Number 53 Locations and dimensions of artificial and/or natural features such as railroad rights-of-way, bridges, dams, soil types, wooded areas, etc.

The application is for roof mounted solar panels and has no impact on existing landscape.

• Number 55 - Locations of all existing and proposed water courses (i.e. lakes, streams, ponds, swamps or marsh areas, or underdrain) within 500 feet of the development, show the location and water level elevations.

The application is for roof mounted solar panels and has no impact on existing waterways.

• Number 56 - Flood Plain limits as determined by most recent FEMA FIRM maps and onsite evaluations by a licensed professional engineer.

The application is for roof mounted solar panels and has no impact on existing floodplain.

 Number 57 - Freshwater Wetlands & transition area boundaries, and stream buffer with NJDEP or accepted reference.

The application is for roof mounted solar panels and has no impact on existing freshwater wetlands.

• Number 58 - Landscaping Plan showing number, size, species, and location.

The application is for roof mounted solar panels and has no impact on existing landscaping.

- Number 61 Utilities. Plans and profiles for all storm lines, underdrains and ditches whether onsite or off-tract, affected by the development including:
 - a. Location of each inlet, manhole or other appurtenance.
 - b. Slope of line.
 - c. Pipe material type.
 - d. Strength, class or thickness.
 - e. Erosion control and soil stabilization methods.

The application is for roof mounted solar panels and has no impact on existing stormwater utilities.

• Number 62 - Septic System infrastructure.

The application is for roof mounted solar panels and has no impact on existing septic system infrastructure.

• Number 63 - Names, locations and dimensions of all existing streets and existing driveways, and any connections by the development to existing streets, sidewalks, bike routes, water, sewer, or gas mains within 200'

The application is for roof mounted solar panels and has no impact on surrounding properties or utilities.

- Number 64 Streets. Plans for all proposed streets or road improvements, whether onsite or off-tract, showing:
 - c. Fire lanes.
 - d. Driveway aisle and dimensions.
 - e. Parking spaces with size, number, location, and ADA spaces.
 - f. Loading areas.
 - g. Curbs.
 - h. Radii of curb line.
 - i. ADA ramps, signage, striping, etc.
 - j. Sidewalks and bicycle routes.
 - k. Any related facility for the movement and storage of goods, vehicles, persons, etc.

- l. Directional and traffic signs with scaled drawings.
- q. Fencing, railroad ties, bollards, and parking bumpers.
- t. Center line profiles at a horizontal scale not less than 1"=50' for all existing adjoining streets and proposed streets. Standard details for curbing, sidewalks, bike paths, paving, stoned, or graveled surfaces, bollards, railroad ties and fences.

The application is for roof mounted solar panels and no additional streets, road improvements, or parking are proposed.

- Number 65 Lighting Plan showing photometric patterns, isolux, footcandles, etc.

 The application is for roof mounted solar panels and no additional lighting is proposed.
- Number 66 Sewer & Water. Plans and profiles of water, and sewer layouts whether onsite, offsite or off-tract showing:
 - a. Size and types of pipes and mains.

The application is for roof mounted solar panels and has no impact on existing sewer and water profiles.

Number 67 - If service is to be provided by an existing water or sewer utility company, a letter from that
company shall be submitted, indicating that service shall be available before occupancy of any proposed
structures.

The application is for roof mounted solar panels and has no impact on existing utilities.



Community Development

TO: Cherry Hill Township Zoning Board Members

FROM: Kathy Cullen, Director

Jacob Richman, PP, AICP, Deputy Director

Samuel Opal, Assistant Planner

RE: COMPLETENESS REVIEW

Solar Landscape, LLC 2 Keystone Avenue

Cherry Hill, New Jersey 08003

Block 493.01 Lot(s) 1 Application No. 25-Z-0005

DATE: April 24, 2025

I. GENERAL INFORMATION

A. **Applicant & Owner.** Solar Landscape, LLC, 522 Cookman Avenue, Unit 3, Asbury Park, NJ 07712; Cherry Umbrella, LLC, 4 Radnor Corp, Center Suite 105, Radnor, PA 19087.

- B. **Proposal.** Site Plan Waiver with a Use d(1) Variance and Bulk (C) Variances to install a 542.88 kW-DC rooftop solar photovoltaic (PV) system containing 928 panels on top of an existing commercial building along with associated ground and wall-mounted equipment. The system would fall under the NJ Community Solar Energy Program (CSEP) and would supply renewable energy back into the grid for prospective customers to purchase. The Zoning Ordinance only permits solar energy systems to provide power for the principal use of the property as opposed to off-site users.
- C. **Zone.** Industrial Restricted (IR) with a Restricted Business (IR-RB) Overlay.
- D. Site Area. The subject site is a 3.2-acre sized lot containing a multi-tenant industrial building located along the north side of Keystone Avenue, which is a private road. The site also has frontage on the east side of Olney Avenue. The Keystone Avenue access consists of two (2) separate driveways, with no direct access along Olney Avenue. The site is surrounded by other IR & IR-RB zoned properties containing various industrial uses (warehousing, manufacturing and storage) to the north, east and west. To the south is the Limited Office (O1) zoned section of the Deer Park industrial area, which houses mixture of uses from offices to various forms of residences. Nearby major roadways include Springdale Road (CR-673) to the east, Greentree Road (CR-674) and Marlton Pike East (SR-70).



- E. History. According to Township Tax Assessor records, the shopping center was constructed around 1968, with the current owner of the property taking ownership in 2008. In December of 1994, the zoning board issued site plan waiver and Use D(1) variance approval (#6526-94) to permit a baseball school, with the sale of baseball related items and snacks within the building. In April of 2011, the zoning board issued Site Plan waiver and Use D(1) variance approval (#11-Z-0014) to permit the operation of a classic car sales and showroom on site. In July of 2012 the zoning board granted a relief of condition from the previous zoning board approval (#11-Z-0014) which allowed the classic car operation to expand its auto repair facility to any type of vehicle. In June of 2017, the planning board issued Site Plan waiver with Bulk (C) variance approval (#17-P-0010) to install a new generator in the front yard of the building. Numerous zoning permits for certificates of occupancy approvals have been issued for various industrial uses over the years with the most recent permit issuances involving "Logiwx, LLC" (ZP-24-00654) and "Bestwork Industries for the Blind, Inc." (ZP-24-00605) being issued in 2024. In November of 2023, a zoning permit (ZP-23-01297) was issued for roof mounted solar panels. In October of 2024, the aforementioned zoning permit (ZP-23-01297) was rescinded, due to the fact that the department of Community Development was made aware that the previously approved solar panels were intended for the use of "Community Solar" which is not permitted per §432.C.1.a of the Zoning Ordinance.
- F. Jurisdiction Determination. Per §432.C.1.a of the Zoning Ordinance, the general requirements for solar energy systems are as follows: "The solar energy system shall provide power for the principal use of the property whereon said system is to be located and shall not be for the generation of power for commercial purposes, although this provision shall not be interpreted to prohibit the sale of excess power generated from time to time from a wind or solar energy system designed to meet the energy needs of the principal use." In receiving an application for a Community Solar project, the Department reviewed and determined that a Use (D) Variance would be required as the applicant's project description did not conform to the general requirements governing solar energy systems. Specifically, the Department determined that the project did not comply with the following key phrase: "shall not be for the generation of power for commercial purposes..." As the intention of this project is to sell all energy generated from the solar energy system to community solar members in the local area, the applicant is utilizing the solar energy system primarily to sell and provide power to off-site users (i.e. for commercial purposes) as opposed to providing: "power for the principal use of the property..." While the Ordinance does allow for: "the sale of excess power generated from time to time" the solar energy system shall be primarily designed to: "meet the energy needs of the principal use." Again, in this instance, the primary purpose of this project is to sell all energy generated from the system to people in the local area as opposed to primarily powering the underlying building (At Home and Big Lots). Therefore, the Department affirms that the Zoning Board of Adjustment has jurisdiction to consider the requested Use (D) Variance and associated Site Plan Waiver request.



II. COMPLETENESS REVIEW

- A. **Submitted Items.** The following information has been submitted in support for this application and reviewed by the Cherry Hill Township Department of Community Development for conformance to the Zoning Ordinance:
 - 1. Community Solar Site Plan Waiver Plan prepared by Kevin E. Shelly, PE of Shore Point Engineering dated February 21, 2025:
 - a. Title Sheet, Sheet 1 of 3;
 - b. Site Plan, Sheet 2 of 3; and
 - c. Construction Details, Sheet 3 of 3.
 - 2. Structural Feasibility Report prepared by *J. Trampe* of *Exactus Energy, Inc.* dated *June 19, 2024.*
 - 3. Site and Aerial Photographs.
 - 4. Submission Waivers Request Letter.
 - 5. Application Overview Rider with List of Variances.
 - 6. Cover Letter with Solar Installation Overview dated February 11, 2025.
 - 7. Cover Letter with CSEP Compliance Statement dated March 7, 2025.
 - 8. Land Use Development Application.
- B. **Checklist.** Waivers requested and recommended for residual checklist items (items reviewed are the only checklist items applicable to the application):
 - 14. Photographs of the site showing area in question. Utilizing the provided aerial and site photographs, the applicant shall provide testimony regarding the existing site conditions and signify which areas will be impacted by the development footprint (i.e. roof areas and areas where electrical infrastructure will be installed).
 - 15. Required Approvals. List and provide applications and permits of regulatory agencies (NJDOT, NJDEP, CCSC, etc.). Waiver requested and the Department does not object as no additional outside agency approvals are required for the proposed change of use.
 - 16. Summary. A written description of the proposed use(s) and operation(s) of the building(s), i.e., the number of employee or users of non-residential buildings, the proposed number of shifts to be worked, the maximum number of employees on each shift, expected truck traffic, noise,

glare, radiation, heat, odor, safety hazards, air and water pollution. The applicant shall provide detailed testimony to the Board regarding the proposed solar installation and related improvements including but not limited to the following: 1) The CSEP details; 2) The total number of panels; and 3) The proposed roof and ground-mounted electrical infrastructure (i.e. inverters, meters, utility cabinets, utility pole connections and electrical wiring [above and below ground]). Please also provide testimony regarding the differences, if any, between a solar installation whose primary purpose is to generate electricity for the underlying use and one whose primary purpose is to send energy back out to the grid. Lastly, the applicant shall address whether any tree removal is necessary to accommodate the proposed solar installation.

- 32. Zoning Schedule showing required, existing, and proposed lot & yard requirements for relevant zone(s) including, area, frontage, depth, setbacks, height, etc. Please review the zoning schedule provided in Section III.A below and confirm to the Board the accuracy of the indicated requirements.
- 35. Building Plans. Proposed structures and uses on the tract, i.e., size, height, location, arrangement, an architect's scaled elevation of the front, side and rear of any structure to be modified, with building lighting details and attached signs. The applicant shall verify that the only changes to the exterior of the building are the installation of the rooftop panels and the associated electrical infrastructure that is to be ground-mounted.
- 36. Floor Plans where multiple dwelling units or more than one use is proposed that have different parking standards. Waiver requested and the Department does not object to the granting of this waiver as no building additions are proposed.
- 37. Signs. Existing and proposed signs, including the location, size, height and necessary measurements and a Sign Location Plan. Waiver requested and the Department does not object to the granting of this waiver as no signage is proposed.
- C. **Determination.** This application has been <u>deemed technically complete</u>. The above-referenced items shall be addressed on revised plans and items submitted for conformance review.

III. DEPARTMENT OF COMMUNITY DEVELOPMENT COMMENTS

A. **Zoning Requirements.** Community Solar Energy projects are not a permitted principal use in the Industrial Restricted (IR) zone nor the Restricted-Business (IR-RB) overlay zone per §432.C.1.a via §419.D.12 (and §421.D) of the Zoning Ordinance. The zoning requirements for solar energy systems (for roof-mounted systems only) are found in §432.C as well as the coverage requirements for the Restricted-Business (IR-RB) overlay zone (§421.E) are noted below:

CODE SECTION	MINIMUM REQUIREMENTS	REQUIRED	EXISTING	PROPOSED	CONFORM
§421.E	Building Coverage	30%	36.6%	No Change	ENC
§421.E	Lot Coverage	70%	92.9%	93.1%	V (Bulk)
§421.E	Open Space	25%	7.1%	6.9%	V (Bulk)
§432.C.1.a	Power Generation for Principal Use	Shall not to be used for Commercial Purposes	N/A	For Sale to Local Area (Commercial Purposes)	V (Use)

§432.C.1.c	Glare	Shall not create glare that poses a nuisance or danger to surroundings	N.A	Testimony to be provided	TBD
§432.C.2.a	Roof-Mounting Height	<3' from finished roof	N/A	9.5"	С
§432.C.2.b	Placement on Roof	Shall not extend beyond the edge or pitch of the roof	N/A	Contained within edge of roof	С

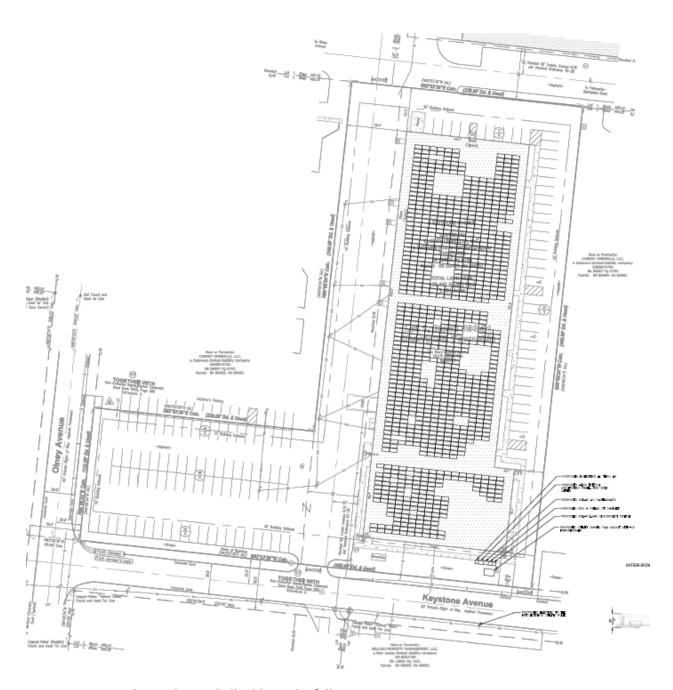
^v Variance

- B. Use (D) Variance. A use d(1) variance is necessary from §432.C.1.a via §419.D.12 (and §421.D) of the Zoning Ordinance to permit the installation of a solar energy system that is principally designed to send all energy generated back to the grid and then, for commercial purposes, sold to the community, where such use is not specifically permitted (NJSA 40:55D-70(d)(1)). Justification should be provided for the requested variance in accordance with N.J.S.A. §40:55D-70(d)(1), where the Township recommends that the burden of proof be provided by a licensed New Jersey Professional Planner (P.P.). In considering a request for a use (d) variance(s), the Zoning Board of Adjustment must be assured that the Applicant has demonstrated either that:
 - 1. The positive criteria are met if at least one of the following is proven by the applicant:
 - a. The proposed use inherently serves the public good; or
 - b. The project advances one or more of the purposes of the municipal land use law (N.J.S.A. 40:55D-2); or
 - c. The property owner would suffer "undue hardship" if compelled to use the property in conformity with the permitted uses in the zone (zoned into inutility); or
 - d. The proposed site is particularly suitable for the proposed use.
 - 2. To meet the negative criteria the applicant must show that the proposed use can be granted without:
 - a. Substantial detriment to the public good.
 - b. Substantially impairing the intent and purpose of the zone plan and zoning ordinance.
- C. **Bulk (C) Variances.** It is recommended, although not required, that justification be provided by a licensed New Jersey Professional Planner (P.P.), for the requested variances in accordance with N.J.S.A. §40:55D-70:of Adjustment must be assured that the Applicant has demonstrated either that:
 - 1. From §421.E, to permit a building coverage of 36.6%, where a maximum building coverage of 30% is permitted. *This represents a pre-existing nonconforming condition that is unaffected by the proposed application.*
 - 2. From §421.E, to permit a lot coverage of 93.1%, where a maximum lot coverage of 70% is permitted and 92.9% exists. The concrete pad associated with the proposed ground-based

ENC Existing Non-conformance

^c Conforms

- equipment triggers a slight exacerbation of the existing nonconforming condition. Thus a new variance is required.
- 3. From §421.E, to permit an open space coverage of 6.9%, where a minimum open space coverage of 25% is required and 7.1% exists. The concrete pad associated with the proposed ground-based equipment triggers a slight exacerbation of the existing nonconforming condition. Thus a new variance is required.
- 4. Any other variances deemed necessary by the Zoning Board of Adjustment.
- D. **Design Waivers.** No design waivers are requested or required as part of this application.
- E. **Standards of Review.** The following standards for review apply for Site Plan Waivers, per §804, "Where site plans are required, the Administrative Officer may determine that the purposes of this Ordinance and the public interest can be served by approval of a site plan waiver. A site plan waiver may be requested provided that such change in use or modification of an existing conforming use would not involve any of one or more of the following:
 - A significant structural improvement that would alter the exterior of the building (Not Applicable – The improvements will be located on top of the roof with the exception of ground-based equipment).
 - 2. Drainage modifications, including but not limited to:
 - a. Major storm drainage installations (Not Applicable).
 - b. An increase of stormwater runoff of more than one cubic foot per second during a twenty-five year rainfall event (**Not Applicable**).
 - c. Redirecting of stormwater runoff (**Not Applicable**).
 - 3. Any change in vehicular traffic circulation patterns or intensity of use (Not applicable as the improvements are primarily contained to the roof with electrical infrastructure contained on the front of the building).
 - 4. No approval for the proposal is required by outside agencies, such as the County or State (Not Applicable).
 - 5. The requirement for a major or minor site plan would not forward the purposes of this Ordinance or otherwise serve the public interest (Not Applicable as excepting for the rooftop solar infrastructure, no major physical changes are being proposed for the property).



- F. Comments. The applicant shall address the following comments:
 - 1. The applicant shall provide testimony regarding the proposed solar installation including but not limited to the total number of panels, the power generation of the installation, the associated electrical infrastructure/ground-based equipment, and compliance with the Community Solar Energy Program (CSEP) requirements.
 - 2. Per the requirements of §432.C.2 of the Zoning Ordinance, the solar panel system shall not extend beyond the edge or pitch of the roof, nor shall the system be mounted more than three (3') feet higher than the finished roof to which it is mounted upon. Per §432.C.1.c, the installation of solar panels shall not create glare that is a nuisance or pose a danger to surrounding properties and the general public. The applicant shall affirm that the proposed solar energy system will comply with said requirements.

- a. Furthermore, utilizing the performance standards established in §502.A, testimony shall be provided regarding any applicable impacts as it relates to: air quality, emissions, drainage, glare, heat, noise, odor, waste, ventilation, vibration and sight triangle visibility.
- 3. While 2018 Master Plan does not specifically indicate a position on Community Solar Energy systems, the Land Use Element does state the following: "It is recommend to comprehensively review the standards for ground-mounted and roof-mounted solar systems to ensure that they meet the needs of industry providers. Additional alternative energy systems (e.g., small wind energy, electric vehicle charging stations) should also be considered for inclusion in the Zoning Ordinance, where appropriate."
 - a. Furthermore, the NJ MLUL Section 40:55D-4 indicates that solar energy systems are classified as an inherently beneficial use which establishes the positive criteria. However, in order to determine whether the negative criteria is satisfied, the Zoning Board shall consider the whether there is any perceived or apparent negative impact with respect to sending renewable energy back into the grid -- as opposed to just allowing power generation for the underlying principal use -- for purchase.
- 4. Please see Checklist item #16 above. Testimony shall be provided by the applicant in regard to the purpose of the proposed solar facility and the scope of work necessary in order to accommodate said facility.
- 5. The applicant shall be advised that the project shall comply with the Cherry Hill Tree Ordinance. If any trees require removal, such trees shall be replaced in-kind or be subject to a fee submission into the Cherry Hill Tree Fund in the amount of \$300.00 per tree. **This shall be a condition of approval.**
- 6. The applicant shall provide testimony regarding the findings/analyses contained with the submitted Structural Analysis. The applicant and the Board shall be advised that the submitted Structural Analysis will be reviewed for UCC compliance by the Township's Construction Office during building permit review (following the issuance of a zoning permit once plans are deemed compliant). The applicant shall comply with all UCC requirements with respect to the solar energy system installation. This shall be a condition of approval.
- 7. While not explicitly required for solar installations, in general all rooftop mechanical and electrical equipment shall be screened to the greatest extent possible from view at ground level by a parapet wall, within the roof structure itself, or properly screened. Ground-mounted mechanical and electrical equipment shall also be screened with landscaping and/or fencing (if not already screened from the ROW by the building), where feasible. The applicant shall address whether any screening measures are proposed. This shall be a condition of approval.
- 8. The application may be subject to additional comments by members Zoning Board, the Cherry Hill Department of Community Development, the Township's zoning board consultants, and/or the public.
- 9. The statements, opinions, and conclusions contained within this Completeness Review are based upon the information, plans, and other documents provided to the Department as of the date of its issuance. The Department reserves the right to supplement or amend any of the statements, opinions, and/or conclusions contained herein at any time up to, and including, at the time of the hearing of this application.

- E. **Conditions.** Should the Zoning Board consider and grant the requested relief to permit the proposed improvements, they may impose reasonable conditions, as they deem necessary, in addition to the following recommended conditions of approval:
 - 1. All taxes and assessments shall be paid on the property for which this application is made. The Applicant shall submit proof that no taxes or assessments for local improvements are due or delinquent on the property for which the application is made.
 - 2. Any and all conditions made a part of any approval, including those noted by reference in this or any other reports of any consultants to the Zoning Board, or as set forth on the record at the Zoning Board hearing, must be satisfied.
 - 3. The Applicant shall pay all required escrows, costs and professional fees associated with the application to the Department of Community Development within fourteen (14) days of receipt of a written request for payment of escrow funds. The failure to pay the required escrow funds within the fourteen (14) day period after receipt of written notice may result in the voiding of this approval. Negative escrow account balances shall incur interest at the rate of 1.5% per month.
 - 4. Any and all outside agency reviews and/or approvals shall be obtained, if applicable.
 - 5. The failure of the Applicant to comply with any of the conditions contained in this Resolution will permit the Zoning Officer to withhold or rescind any zoning permits issued to the Applicant, pursue any other enforcement actions permitted by the Cherry Hill Township Zoning Ordinance, and/or refer the matter back to the Zoning Board where it may, at its sole option, revoke the approval being granted by any Resolution of Approval.

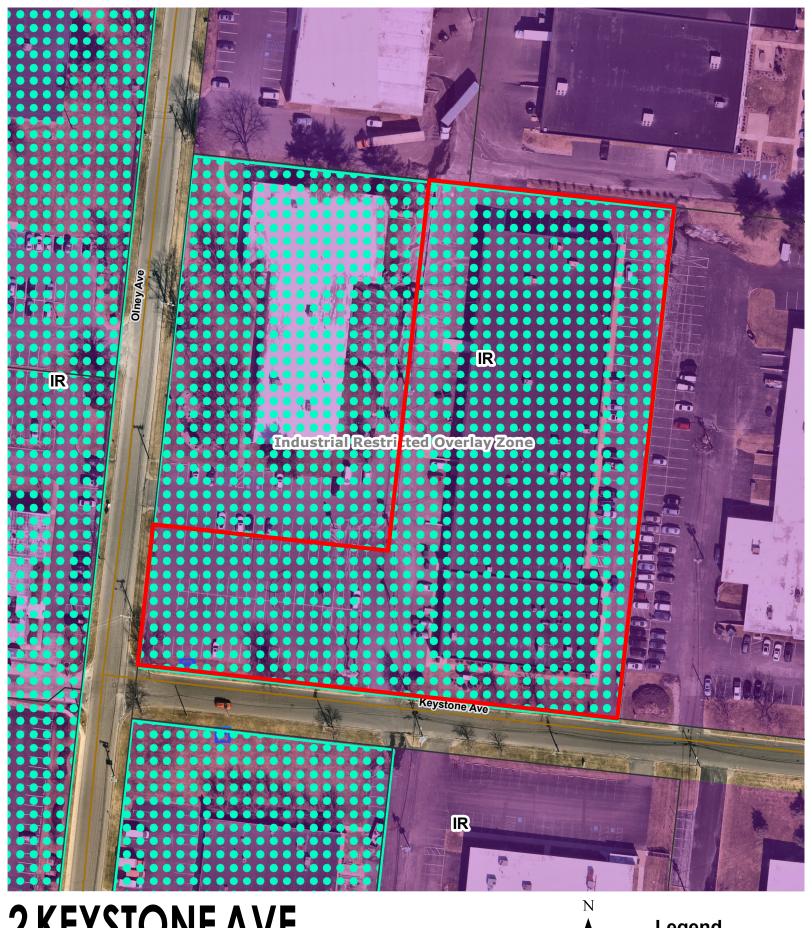
IV. APPROVAL PROCESS

If approved, the following items are required to complete the approval process (notwithstanding any other needed items due to the unique nature of the application):

- 1. After the resolution is memorialized, a **Notice of Decision** will be published in the Courier Post by the Department of Community Development.
- 2. If applicable, **two (2) copies of revised site plans along with an electronic copy**, which provide completeness items and all conditions of approval, shall be submitted to the Department of Community Development for review.
- 3. Submit any **draft legal documents** (agreements, deeds, easements, etc.) for review by the Zoning Board Engineer and Solicitor. Revise as necessary.
- 4. If applicable, after comments from the Department of Community Development and the Board Engineer have been provided, revise (if needed), and submit six (6) copies of finalized plans for signature along with an electronic copy.
- 5. Payment of any outstanding **Review Escrow**.
- Complete and submit a Zoning Permit for the proposed solar energy system. To learn about how
 to submit a zoning, please visit the following webpage: http://www.chnj.gov/203/Zoning or
 contact our Zoning Officer at zoning@chnj.gov with any questions.

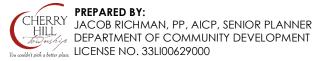
cc: Solar Landscape, LLC (via email)
Cherry Umbrella, LLC (via email)
Kevin Shelly, PE (via email)
Fred Kuhn (via email)
Kathleen Gaeta (via email)
Mike Raio (via email)

Donna M Jennings, Esq. (via email) Luke Policastro, Esq. (via email) Allen Zeller, Esq. (via email) Sharon Walker (via email) Kathy Cullen (via email) Danielle Hammond (via email)



2 KEYSTONE AVE

BLOCK 493.01 LOT 1



1 inch = 90 feet

110

55



220 Feet

Legend

Parcels selection

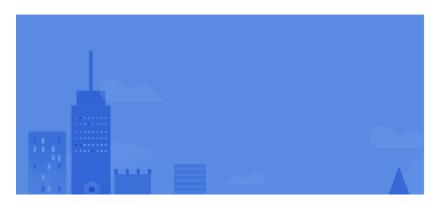
Parcels **Bus Stops**

→ Rail Lines



2 Keystone Ave



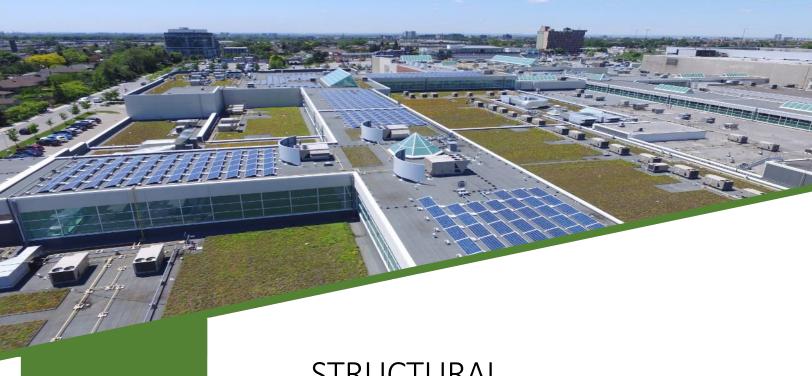


Imagery ©2025 Airbus, Maxar Technologies, Map data ©2025 Google 50 ft









STRUCTURAL FEASIBILITY REPORT

Prepared By

J. Trampe June 19, 2024

Reviewed By

D. Hernandez, PE June 19, 2024

Site

2 Keystone Ave, Cherry Hill, NJ 08003-1605

Prepared For

Solar Landscape 522 Cookman Ave, Unit 3, Asbury Park, NJ 07712 Attention: Shishira Bhargav

Exactus Energy Inc.

New Age Engineering 14 Neilor Crescent, Toronto, ON, M9C 1K4 1-833-392-2887 | www.exactusenergy.com



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Re: Structural feasibility report for installation of a solar PV system at

2 Keystone Ave, Cherry Hill, NJ 08003-1605

Exactus Energy Inc. has been retained to review the structural condition for the site: 2 Keystone Ave, Cherry Hill, NJ 08003-1605. The roof of this building was assessed to determine its capacity to support additional loads imposed by the installation of a solar PV system. The conclusions and findings of this investigation are summarized in this technical document.

The feasibility assessment for the site concludes:

- Roof A has additional structural capacity for up to 4 psf
- Roof B has additional structural capacity for up to 6 psf



1. Background

1.1. Report Scope

A site inspection of the roof structure to obtain structural specifications was conducted on June 6, 2024. Structural specifications are detailed in site inspection documentation. Architectural/structural drawings or existing documentation was not provided.

The plan view of the site is provided in Figure 1. The roofs included in this assessment are highlighted.

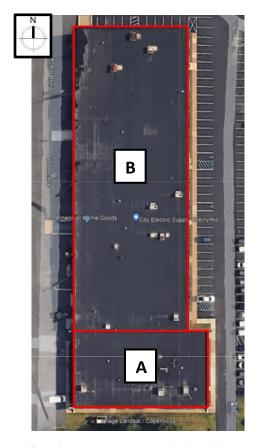


Figure 1: Roof structures included in this assessment



1.2. Roof System Compositions and Structures

Upon review, Roof A was determined to consist of built-up EPDM roofing atop unknown decking and are assumed to be supported by steel beams and columns. Roof B was determined to consist of built-up EPDM roofing membrane atop steel decking and are supported by systems of steel beams and columns. Photographs of the structural members of each roof are provided in Figure 2 and Figure 3.



Figure 2: Roof A Steel beams and columns



Figure 3: Roof B steel beams and columns



2. Assumptions

The following assumptions have been made for this assessment:

- The roof surfaces are not expected to support any other additional loading for the life of the solar PV system.
- The solar PV system installation will not cause an increase in the snow load.
- Steel deck assumed to have reserve capacity
- All connections of structural members impacted by additional PV system weight have sufficient reserve capacity to withstand the system weight.
- Roof A was assumed to have the same structural configuration as Roof B due to no access for Roof A

The structural analysis and assessment are based upon visual inspection and measurements collected on site. The loading capacity was established in accordance with the requirements of

- ASCE 7-16
- International Building Code (2021) New Jersey Edition



3. Analysis and Methodology

3.1. Design Loads and Criteria

The governing design loads used in this assessment are detailed in Table 1. Mechanical loads and accumulated snow have also been considered. The building has been classified as Risk Category II.

Table 1: Design loads

		Current Analysis (2024)	Load Description
	Risk Category	II	2021 IBC - NJ Ed. Sec. 1604.5
	Exposure Category	В	2021 IBC - NJ Ed. Sec. 1609.4.3
	Dead Load	15 psf	Roof System
Roof A,	Live Load	20 psf	Roof Live Load
В	Exposure Factor (C _e)	1.0	ASCE Table 7.3-1
	Thermal Factor (C _t)	1.0	ASCE Table 7.3-2
	Snow Load	25 psf	Ground Snow Load
	Wind Load	115 mph	Wind Speed

3.2. Existing Structure Condition

The assessed condition of each roofs' structural components and roof system is given in Table 2.

Table 2: Condition Assessment

Roof	Condition Assessment
A	 Thermoplastic membrane system appears well-sealed. Roof system and structural condition was not evaluated due to no access. Roof A was assumed to have the same structural configuration as Roof B
В	 Thermoplastic membrane system appears well-sealed. No indication of significant leakage or damage to structural members. Overall, the roof system and structure are in acceptable condition.



4. Results

4.1. Loading Capacity

It is determined that the capacity of each roof area to support additional loads imposed by the installation of a solar PV system is as follows:

Roof A: 4 psf (Blue) Roof B: 6 psf (Green)

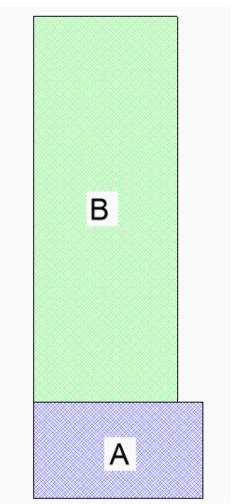


Figure 4: Allowable Capacity Map



4.2. Conclusions

This assessment has been conducted to evaluate the additional loading capacity of each roof structure as labelled in Figure 1 to support additional loads imposed by the installation of a solar PV system. The additional loading capacities and other information given in this report should not be used for any other purposes. The engineer must be contacted for any other type of equipment installation.

Acknowledged by:	
Dovid Howards - DE	Green Green Building Engineer No. GE52690 **/CENSED** Exp. 04/30/26
David Hernandez, PE	No. GE52690 EXP. SS/ONAL ENG.



Appendix A

A1 - ASCE 7-16 Table 7.3-1 and Table 7.3-2

Table 7.3-1 Exposure Factor, C_e

	Exposure of Roof ^a			
Surface Roughness Category	Fully Exposed	Partially Exposed	Sheltered	
B (see Section 26.7)	0.9	1.0	1.2	
C (see Section 26.7)	0.9	1.0	1.1	
D (see Section 26.7)	0.8	0.9	1.0	
Above the tree line in windswept mountainous areas	0.7	0.8	NA	
In Alaska, in areas where trees do not exist within a 2-mi (3-km) radius of the site	0.7	0.8	NA	

Table 7.3-2 Thermal Factor, C_t

Thermal Condition ^a	C_t
All structures except as indicated below	1.0
Structures kept just above freezing and others with cold, ventilated roofs in which the thermal resistance (R-value) between the ventilated space and the heated space exceeds $25^{\circ}\text{F} \times h \times \text{ft}^2/\text{Btu}$ (4.4 K × m ² /W)	1.1
Unheated and open air structures	1.2
Freezer building	1.3
Continuously heated greenhouses ^b with a roof having a thermal resistance (R-value) less than $2.0^{\circ}\text{F} \times h \times \text{ft}^2/\text{Btu}$ (0.4 K × m ² /W)	0.85



A2 - AISC 360-16 Equation H1.2, H1-1b

- H1. DOUBLY AND SINGLY SYMMETRIC MEMBERS SUBJECT TO FLEXURE AND AXIAL FORCE
- 1. Doubly and Singly Symmetric Members Subject to Flexure and Compression

The interaction of flexure and compression in doubly symmetric members and singly symmetric members constrained to bend about a geometric axis (x and/or y) shall be limited by Equations H1-1a and H1-1b.

User Note: Section H2 is permitted to be used in lieu of the provisions of this section.

(a) When
$$\frac{P_r}{P_c} \ge 0.2$$

$$\frac{P_r}{P_c} + \frac{8}{9} \left(\frac{M_{rx}}{M_{cx}} + \frac{M_{ry}}{M_{cy}} \right) \le 1.0$$
 (H1-1a)

(b) When
$$\frac{P_r}{P_c} < 0.2$$

$$\frac{P_r}{2P_c} + \left(\frac{M_{rx}}{M_{cx}} + \frac{M_{ry}}{M_{cy}}\right) \le 1.0$$
 (H1-1b)



Appendix B Calculations

ETABS Steel Frame Design

AISC 360-16 Steel Section Check (Strength Summary)

Element Details

Level	Element	Unique Name	Location (in)	Combo	Element Type	Section	Classification
Story1	B25	34	138	DStIS3	Ordinary Moment Frame	W12X19	Slender

LLRF and Demand/Capacity Ratio

L (in)	LLRF	Stress Ratio Limit
276.0000	1	0.95

Analysis and Design Parameters

Provision	Analysis	2nd Order	Reduction
ASD	Direct Analysis	General 2nd Order	Tau-b Fixed

Stiffness Reduction Factors

$\alpha P_r/P_y$	α Ρ _г / P _e	T b	EA factor	El factor
-1.062E-04	-6.055E-05	1	0.8	0.8

Design Code Parameters

$\Omega_{ extsf{b}}$	Ως	Ω_{TY}	Ω _{TF}	Ων	$\mathbf{\Omega}_{ extsf{V-RI}}$	Ω _{VT}
1.67	1.67	1.67	2	1.67	1.5	1.5

Section Properties

A (in²)	J (in⁴)	I 33 (in⁴)	I 22 (in⁴)	A _{v3} (in²)	A _{v2} (in²)
5.57	0.18	130	3.76	2.81	2.87

Design Properties

S 33 (in³)	S 22 (in³)	Z ₃₃ (in³)	Z ₂₂ (in³)	r ₃₃ (in)	r ₂₂ (in)	C _w (in ⁶)
21.31	1.88	24.7	2.98	4.8311	0.8216	132.05

Material Properties

E (lb/in²)	f y (lb/in²)	Ry	C pr	α
29000000	50000	1.1	1.4	NA

Stress Check Message - I/r > 300

Stress Check forces and Moments

Location (in)	P _r (kip)	M _{r33} (kip-ft)	M _{r22} (kip-ft)	V _{r2} (kip)	V _{r3} (kip)	T _r (kip-ft)
138	0.018	15.1396	0	0	0	0

Axial Force & Biaxial Moment Design Factors (H1.2,H1-1b)

	L Factor	K ₁	K ₂	B ₁	B ₂	C _m
Major Bending	1	1	1	1	1	1
Minor Bending	1	1	1	1	1	1

Parameters for Lateral Torsion Buckling

L _{Itb}	K _{ltb}	C _p
0.5	1	1.035

Demand/Capacity (D/C) Ratio Eqn.(H1.2,H1-1b)

D/C Ratio =	$(P_r/2P_c) + (M_{r33}/M_{c33}) + (M_{r22}/M_{c22})$
0.617 =	5.542E-05 + 0.617 + 0

Axial Force and Capacities

P Force (kip)	P _{nc} /Ω (kip)	P _{nt} /Ω (kip)
0.018	7.419	166.766

Moments and Capacities

	M , Moment (kip-ft)	M _n /Ω (kip-ft)	M _n /Ω No LTB (kip-ft)	M _n /Ω Cb=1 (kip-ft)
Major Bending	15.1396	24.5488	61.6267	23.7072
Minor Bending	0	7.4351		

Shear Design

	V , Force (kip)	V _n /Ω (kip)	Stress Ratio
Major Shear	0	57.34	0
Minor Shear	0	50.425	0

End Reaction Major Shear Forces

Left End Reaction (kip)	Load Combo	Right End Reaction (kip)	Load Combo
2.633	DStIS3	2.633	DStIS3

SITE PLAN WAIVER **COMMUNITY SOLAR** SOLAR ROOFTOP SYSTEM - 2 KEYSTONE AVE

BLOCK 493.01, LOT 1

<u>APPLICANT</u>

CHERRY UMBRELLA, LLC SOLAR LANDSCAPE, LLC 4 RADNOR CORP CTR STE 105 522 COOKMAN AVE – UNIT 3 ASBURY PARK, NJ 07712

- SITE IS KNOWN AND DESIGNATED AS BLOCK 493.01, LOT 1 AS SHOWN ON THE CURRENT TAX ASSESSMENT MAP OF
- EXISTING BOUNDARY AND STRUCTURES INFORMATION SHOWN ON PLAN ENTITLED "2 KEYSTONE AVENUE; CITY OF DATED 04/16/18

- IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR IS REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE
- OWNER/DEVELOPER. CONTRACTOR HAS SOLE RESPONSIBILITY FOR SITE SAFETY AND TO CONFORM TO AND ABIDE
- UNLESS OTHERWISE INDICATED, ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE NEW

- 12. THE PROPOSED SOLAR PANEL APPLICATION IS PART OF NEW JERSEY'S COMMUNITY SOLAR PROGRAM
- 13. ONCE THE SYSTEM IS INSTALLED AND OPERATIONAL, THERE IS NO IMPACT ON THE CURRENT SITE OPERATIONS. THERE IS NO ON-SITE STAFF FOR MAINTENANCE OR OPERATIONS. SOLAR LANDSCAPE HAS A MAINTENANCE AND INSPECTION SCHEDULE FOR THEIR PROJECTS, WHICH TYPICALLY INCLUDES A 2-MAN INSPECTION TEAM THAT WOULD VISIT THE SITE TWICE PER YEAR TO PERFORM INSPECTIONS AND ROUTINE MAINTENANCE OF THE SYSTEM.
- 14. ALL CONSTRUCTION IS TO BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL AND FIRE CODES.
- ALL SIGNAGE RELATED TO THE PROPOSED SOLAR PANELS WILL BE PROVIDED IN ACCORDANCE WITH LOCAL, STATE
- THE APPLICANT WILL OBTAIN APPROVAL FROM THE CHERRY HILL FIRE OFFICIAL FOR THE PROPOSED DEVELOPMENT. 17. SIGNED AND SEALED FINAL DESIGN PLANS, ENGINEERING UPLIFT CALCULATIONS AND ROOFING ANALYSIS WILL BE
- 18. NO ADDITIONAL SITE IMPROVEMENTS BEYOND THE ROOF MOUNTED SOLAR PANELS AND THE GROUND MOUNTED ELECTRICAL EQUIPMENT ARE PROPOSED AS PART OF THIS APPLICATION.
- 19. THE PROPOSED SITE IMPROVEMENTS WILL HAVE NO IMPACT ON SITE SECURITY, CIRCULATION, PARKING OR
- 20. AS ASBUILT DRAWING FOR THE GROUND-MOUNTED EQUIPMENT AND UNDERGROUND UTILITIES WILL BE PROVIDED ONCE CONSTRUCTION IS COMPLETED.
- 21. ACCORDING TO THE NEW JERSEY SOIL EROSION AND SEDIMENT CONTROL ACT. A PROJECT IS DEFINED AS "ANY DISTURBANCE OF MORE THAN 5,000 SQUARE FEET OF THE SURFACE AREA OF LAND". THEREFORE, NO SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED ON THIS PROJECT SINCE WE ARE DISTURBING LESS THAN 5,000

490.01

491.01

492.01

494.01

495.01

497.01

GWL 1938 OLNEY LLC

CHERRY UMBRELLA LLC

CHERRY UMBRELLA LLC

CHERRY UMBRELLA LLC

CHERRY UMBRELLA LLC

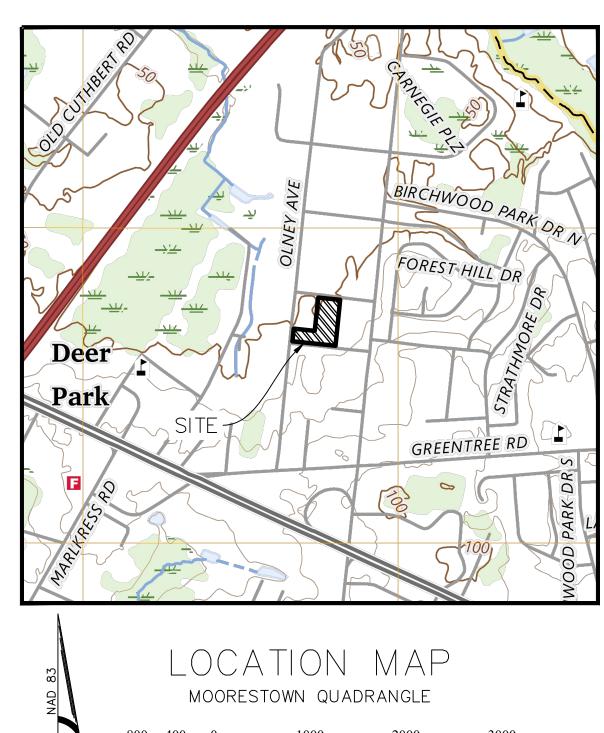
RUIKE REALTY LLC

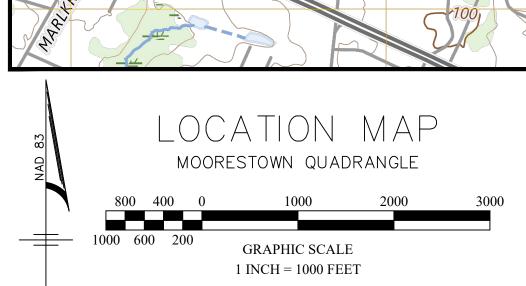
DRAWING INDEX

Description

TITLE SHEET SITE PLAN

CONSTRUCTION DETAILS



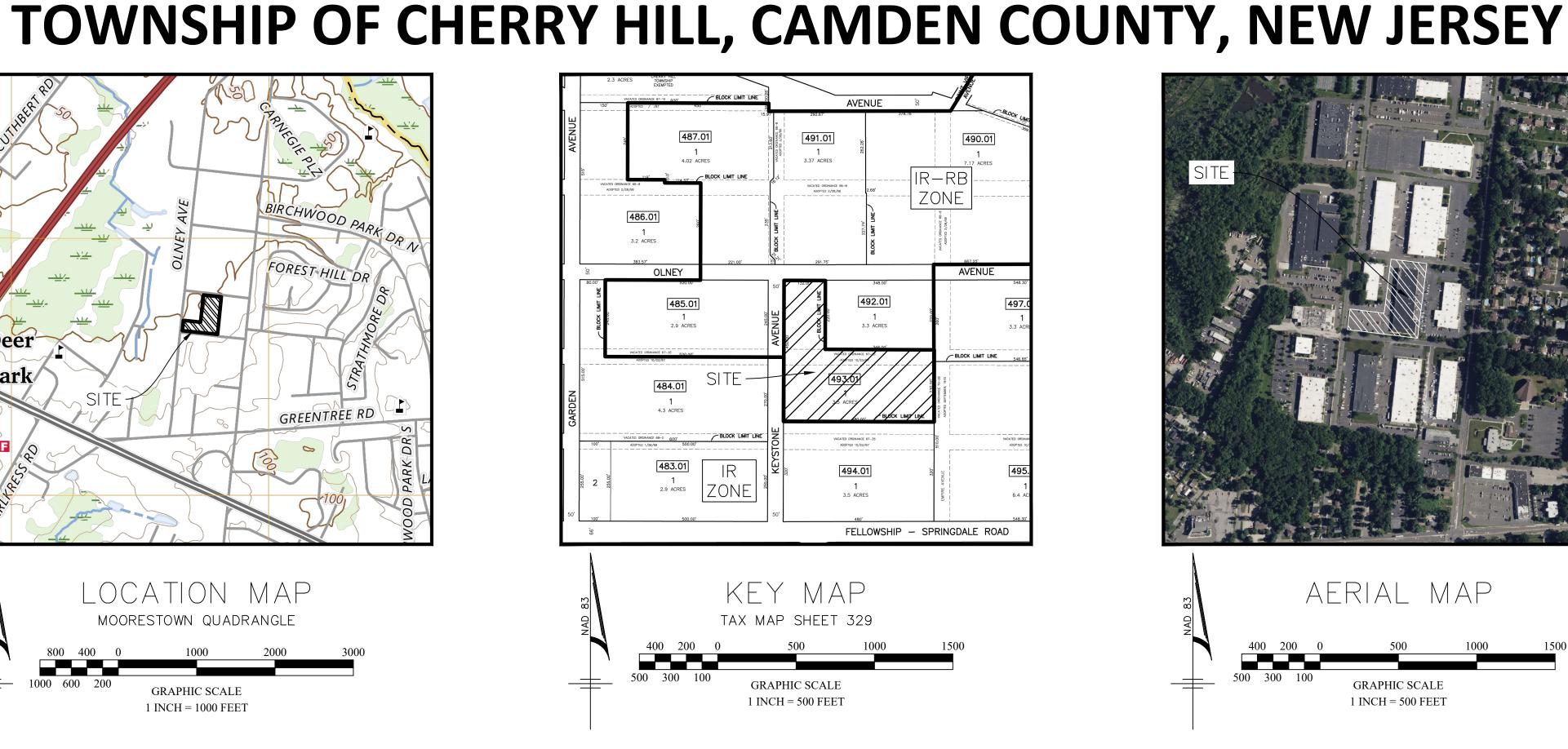


200' PROPERTY OWNERS LIST

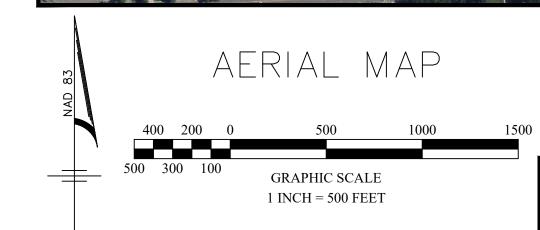
1399 FRANKLIN AVE STE 100

4 RADNOR CORP CTR STE 105 RADNOR

1936 OLNEY AVENUE







	Variances Requested		
	D Use Variance. Although Solar energy infrastructure is a permitted accessory use in the IR-RB zone (§Section 421.D) they are not permitted when not powering the principal building. (Section §432.C.1.a)		
•	Bulk Variance. The maximum permitted impervious lot coverage is 70%. The proposed lot coverage is 93.1%. (Section § 421.E)		
•	Bulk Variance. The minimum required open space for the lot is 25%. The proposed open space is 6.9%. (Section § 421.E)		
	Pre-Existing Non-Conforming Conditions		
•	The maximum permitted building coverage is 30%. The current total building coverage is 36.6%. (Section § 421.E)		

11530

19087

19087

19087

19087

08003

INDUSTRIAL RESTRICTED-RESTRICTED BUSINESS (IR-RB) OVERLAY ZONING SCHEDULE				
2 KEYSTONE AVE - BLOCK 493.01, LOT 1				
PROPOSED USE: COMMUNITY SOLAR ENERGY PROJECT ¹				
REQUIRED EXISTING PROPOSED COMPLIES				
MIN. LOT AREA	20,000 SF	139,440 SF	NO CHANGE	YES
MIN. LOT FRONTAGE	120 FT	450 FT	NO CHANGE	YES
MIN. LOT DEPTH	120 FT	132 FT	NO CHANGE	YES
MIN. FRONT YARD SETBACK	30 FT	32.9 FT	NO CHANGE	YES
MIN. REAR YARD SETBACK	20 FT	43.3 FT	NO CHANGE	YES
MIN. SIDE YARD SETBACK				
ONE SIDE	10 FT	23.8 FT	NO CHANGE	YES
AGGREGATE	24 FT	> 24 FT	NO CHANGE	YES
MAX. BUILDING HEIGHT**	35 FT	19 FT	NO CHANGE***	YES
MAX. LOT COVERAGE	70 %	92.9 %	93.1 %	NO ²
MIN. OPEN SPACE	25 %	7.1 %	6.9 %	NO ²
MAX. BUILDING COVERAGE	30 %	36.6 %	NO CHANGE	NO*

¹Use Variance Requested ²Bulk Variance Requested

*Existing Non-Conformity **BUILDING HEIGHT - The vertical distance from finished grade to the top of the highest roof beams on a flat or shed roof, the deck level on a mansard roof, and the average distance between the eaves and the ridge level for gable, hip, and gambrel roofs ***Solar Panels will add about 9.5 inches to building height thus not significantly affecting overall height.

Revision Date BELLINI PROPERTY MANAGEMENT LLC 2010 SPRINGDALE ROAD 484.01 CHERRY UMBRELLA LLC 4 RADNOR CORP CTR STE 105 RADNOR 19087 ORIGINAL SUBMISSION ORIGINAL SUBMISSION ORIGINAL SUBMISSION 485.01 CHERRY UMBRELLA LLC 4 RADNOR CORP CTR STE 105 RADNOR 19087 487.01 BREGAN LLC 08003 1934 OLNEY AVE STE-200 CHERRY HILL

GARDEN CITY

CHERRY HILL

CHAIRMAN	DATE
SECRETARY	DATE
ENGINEER	DATE

APPROVED BY THE TOWNSHIP OF CHERRY HILL ZONING BOARD OF ADJUSTMENT AS A SITE PLAN WAIVER:

BLOCK 493.01, LOT 1 SITUATED IN TOWNSHIP OF CHERRY HILL, CAMDEN COUNTY, NEW JERSEY TITLE SHEET

SHORE POINT

ENGINEERING

Certificate of Authorization No. 24GA28317800 Kevin E. Shelly P.E. PE No. GE05031300 PO Box 257, Manasquan, NJ 08736

T: 732-924-8100 | F: 732-924-8110

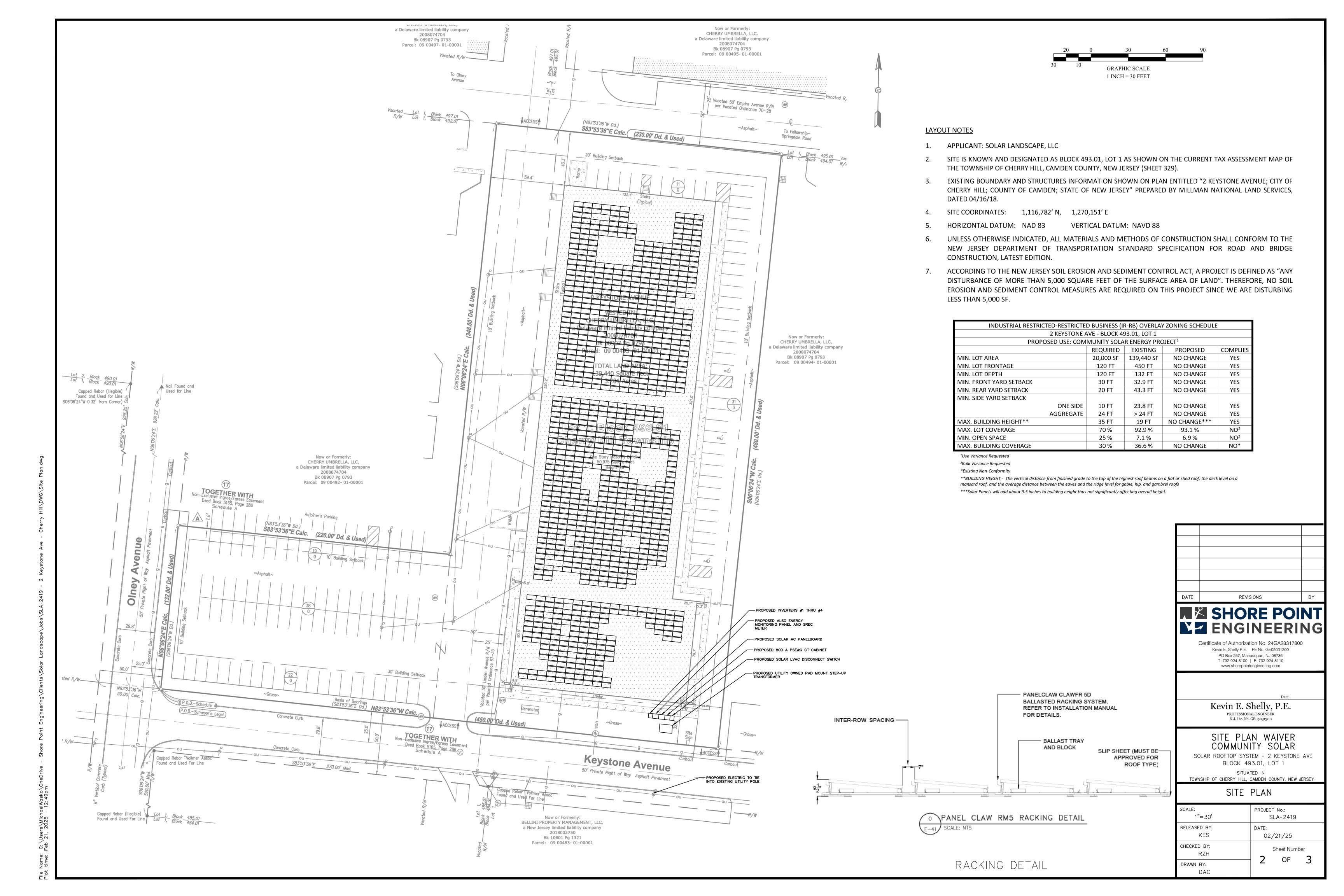
Kevin E. Shelly, P.E.

PROFESSIONAL ENGINEER

N.J. Lic. No. GE05031300

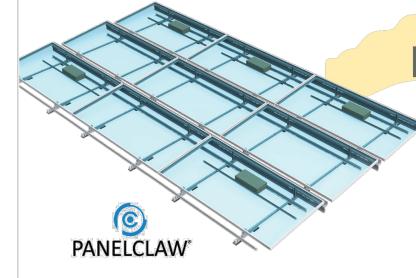
SITE PLAN WAIVER COMMUNITY SOLAR SOLAR ROOFTOP SYSTEM - 2 KEYSTONE AVE

SCALE: AS SHOWN	PROJECT No.: SLA-2419
RELEASED BY: KES	DATE: 02/21/25
CHECKED BY: RZH	Sheet Number 1 OF 3
	, I



Flat Roof Racking Specialists

PanelClaw® is the only major racking provider in North America focused exclusively on flat roof racking. Our 11+ years of focus on flat roof result in a competitive advantage for our partners. No one knows more about flat roof racking than PanelClaw; no one delivers a more thoroughly tested and reliable platform; and no one matches our level of service. Our mission is to accelerate the deployment of flat roof PV and the best way to do this is to continue to lower its life-cycle cost while maintaining the highest levels of reliability. The clawFR platform is the result of this experience and commitment to flat roof.



Universal Rail

SYSTEM COMPONENTS

Engineered for Speed

- Single M6 bold hardware kit
- No tool module attachment method 90 degree single-module tilt-up feature Flexible order of operations installation process allows for optimized

coordination of building trades on the

- Integrated roof protection pads
- 6.9"+ access ways between modules
- Only 1 ground lug required per array

- connections to inverters Cellular or Ethernet connectivity

Up to 20 external inverters

• Modbus via RS-485 or TCP

Solution Features

Also Energy

PowerLogger Commercial

Solution 600 (PLCS 600)

- Remote firmware updates
- Up to 1 minute data granularity
- For systems with a single metering point; direct metering or PT secondary voltage up to

Uploads at 5 minute intervals

relay, other non-PV use cases

· Suitable for demand meter,

 Satisfies reporting requirements for most. US electricity sector agencies All parts except weather sensors and cell

Standardized PLCS 600 includes:

and wind speed

5 port Ethernet Switch

NEMA4 weatherproof enclosure

Optional 4G Cell Modem (requires the

addition of a cellular plan to utilize the cell

· Datalogger with LCD touchscreen display

· Revenue grade energy meter compatible with all 5A CTs (sold separately)

 Optional weather station choices (2) may add data for irradiance, back-of-module

panel temperature, ambient temperature,

modern covered with standard AlsoEnergy 5-year warranty

The operating system for the

grid of the future

Supported on PowerTrack only

PLCS-600-CM-PLUS	+cell modern, +reference cell, BOM panel temperature, ambient temperature, wind speed
PLCS-600-CM-BASE	+cell modem, +reference cell, BOM panel temperature
PLCS-600-CM-00	+ cell modern, no environmental sensors
PLCS-600-00-PLUS	no cell modem, + reference cell, BOM panel temperature, ambient temperature, wind speed
PLCS-600-00-BASE	no cell modem, + reference cell, BOM panel temperature
PLCS-600-00-00	no cell modem, no environmental sensors

Also Energy now offers a convenient standardized monitoring solution for small to mid-sized commercial PV systems. This solution combines our standard commercial datalogger with a revenue grade meter, a weatherproof NEMA 4 enclosure,

and other supporting hardware. Customers may choose to add weather sensors and/or a cellular modern. The PLCS 600

is recommended for 3-phase systems with up to 20 external inverters. Performance data is uploaded to the web-based

PowerTrack Platform which provides a suite of analytic and diagnostic tools for O&M and asset managers.

To find out more or schedule a v21.1 @ AlsoEnergy, Inc / 5400 Airport Bvd. Ste. 100 Boulder, CO 80301 USA / 866.303.5668

Back of Module Panel Temperature Sensor

(included with Base and Plus weather station option)

cannot be extended

PT1000 Class A

Wind Speed Sensor (included with Plus weather station option)

mounting included

workmanship

4G LTE

Ambient Temperature Sensor

Cellular data

(included with Plus weather station option)

0.5 m/s or 5% of reading

0.9 - 40m/s (2 - 90 mph)

Reed relay

grid of the future

3m cable with 3-pin connector compatible with paired reference cell - sensor cable

Self-adhesive for attaching to a solar

1 year against defects in materials and

Cup star anemometer with 5m 2-pin

Mounting bracket for pole or surface

1 year against defects in materials and

Pt1000 1/3 Class B with integrated modbus

Width x Height x Depth: 3.34" x 6.10" x

Includes 3 meters of twisted-pair, shielded

1 year against defects in materials and

1.54" (85mm x 155mm x 39mm)

connector compatible with paired reference

The operating system for the

PLCS-600

Also Energy

Specifications

2.0:1 | 2.5:1 **Platform Load** ~ 2.3 - ~ 8.0 psf

Module Orientation Landscape **Module Attachment**

Basic Wind Speed Up to 190 mph (>190 mph by approval)

Intelligent Componet Design

- A single Ballast Rail part number covers all compatible 60 and 72 cell modules
- that cover all 72 cell module lengths The Module Connector and Deflector each have 2 part numbers have cover all compatible 72 cell modules

Bracket w/

- The wind deflector has 2 part numbers
- The Base does not change with module

O&M Features

- Construction designed specifically for O&M, and to assist provider • Recessed Deflector allows for visual inspection of module connections and optimizer equipment
- ZAM coating with 5x better corrosion resistance than G90 • If mechanical roof attachments are needed, they are always placed in the North/South module gaps for simplified O&M inspection

< 5° slope flat roofs (up to B and C (D required engineering

Wind Exposure Category

review) Roof Type Compatibility A, B, C, D (others require Membrane, tar and gravel, engineering review) ballasted, BUR, concrete, asphalt (not compatible with Building Height

metal roofs) No building height limitations 2 Shade Ratio Options Corrosion Resistance ZAM coating provides 5x better resistance than G90

Warranty and Certifications 25 year warranty ANSI/UL 2703-2015 Listed System Fire Rating Class A with Type 1 and

Airy point flange mounted Type 2 modules

Safety and Reliability

clawFR has been tested well beyond code requirements in the US. In addition to wind tunnel testing and ANSI/UL 2703-2015 listing, we have completed a battery of reliability and performance tests which can all be found at panelclaw.com.

> PANELCLAW[®] (978) 688.4900 | sales@panelclaw.com panelclaw.com Made in USA

© 2019 PanelClaw, Inc.

Enclosure dimensions | 15.7" x 15.7" x 7.9" (400mm x 400mm x Enclosure rating -13° to 158°F (-25° to 70°C), <95% relative Operating temperature humidity non-condensin Power supply 120-277VAC Three available 10/100 Ethernet ports, two Communication Ports | half-duplex rs485 ports

Datalogger	
Devices supported	Up to 40 connected Modbus RTU enabled devices (20 per rs485 port) / Recommended limit 32
Storage	Removable 2GB industrial rated micro SI card
Serial	RS-485 with integrated 120 ohm termination resistor
Primary protocols	Modbus TCP, Modbus RTU, most proprietary inverter protocols
Touch screen	Color, resistive touch screen 2" by 2.75"
Warranty	Standard 5 year warranty

UL listed 508A

Meter	
Voltage inputs	90-600VAC
Accuracy	Meter 0.2% (see CT datasheet for CT accuracy information)
CTs	Any CT with 5A secondary current ratio (sold separately)
CT accuracy	Refer to CT datasheet
Warranty	Standard 5 year warranty

Irradiance Sensor fincluded with Base and Plus weather station option) Monocrystalline Silicon reference cell with Irradiance sensor type | mounting bracket and 3m twisted pair shielded cable ±5W/m² ± 2.5% of reading Width x Height x Depth: 3.34 inches x 6.10 inches x 1.54 inches (85mm x 155mm s

workmanship

v21.1 @ AlsoEnergy, Inc / 5400 Airport Bvd. Ste. 100 Boulder, CO 80301 USA / 856.303.5558

1 year against defects in materials and

To find out more or schedule a

demo, contact us at alsoenergy.com

Three Phase Inverter with Synergy Technology

For the 277/480V Grid for North America

SE80KUS / SE100KUS / SE110KUS / SE120KUS



Powered by unique pre-commissioning process for rapid system installation

/ Three Phase Inverter with Synergy Technology

- Pre-commissioning feature for automated validation of system components and wiring during the site
- installation process and prior to grid connection ■ Easy 2-person installation with lightweight, modular
- design (each inverter consists of 2 or 3 Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring ensuring enhanced protection and safety

For the 277/480V Grid for North America

SE80KUS / SE100KUS / SE110KUS/ SE120KUS

*Applicable only for DC and AC SPDs

solaredge.com

Rated AC Active Output Power

AC Output Voltage Minimum-

Nominal-Maximum⁽¹⁾ (L-N)

AC Frequency Min-Nom-Max⁽¹⁾

Maximum Continuous Output Current (per Phase, PF=1)

Utility Monitoring, Islanding Protection,

Configurable Power Factor, Country Configurable Thresholds

Maximum DC Power (Module STC)

Maximum Input Voltage DC+ to D0

Total Harmonic Distortion

Inverter / Synergy Unit

Operating Voltage Range

Ground-Fault Isolation Detection

Nighttime Power Consumption

ADDITIONAL FEATURES

Supported Communication Interfaces

Photovoltaic Rapid Shutdown System

RS485 Surge Protection (ports 1+2)

AC, DC Surge Protection

Safety

DC SAFETY SWITCH

STANDARD COMPLIANCE

CEC Weighted Efficiency

Arc Fault Protection

Maximum Input Current

Power Factor Range

Supported Grids

Maximum⁽¹⁾ (L-L)

Maximum AC Apparent Output Powe

Built-in arc fault protection and rapid shutdown

Built-in PID mitigation for maximized system

Monitored* and field-replaceable surge protection

Built-in module-level monitoring with Ethernet or

cellular communication for full system visibility

SE110KUS

3W + PE, 4W + PE

244 - 277 - 305

422.5 - 480 - 529

150000 / 50000

59.5 - 60 - 60.5

167kΩ sensitivity per Synergy Uni

2xRS485, Ethernet, Wi-Fi (optional), Cellular (optional

Built-in, User Configurable (According to UL1699B

NEC 2014, 2017 and 2020, Built-in

Type II, field replaceable, integrate

Typell, field replaceable, integrated

UL1699B, UL1741, UL1741 SA, UL1998, CSA C22.2#107.1, Canadian AFCI according to T.I.L. M-07

IEEE 1547, Rule 21, Rule 14 (HI)

WYE: TN-C, TN-S, TN-C-S, TT, IT; Delta: IT

devices, to better withstand surges caused by lightning

solaredge

180000 / 60000

SE120KUS

INVERTI

ERS

Surge protective devices

Eaton's SPD Series

For integration into electrical distribution equipment



Eaton's SPD Series surge Eaton's SPD Series surge protective devices are the lates and most advanced UL® 1449 4th Edition certified surge protectors. Units are available ntegrated within Eaton electrical ssemblies, including panelboards, switchboards, motor control centers, switchgear and us plugs. Application of SPD Series units throughout a facility

protected with the safest and most reliable surge protective devices available. SPD Series units are available configurations, and also in a variety of surge current capacit atings from 50 kA through 400 kA. Three feature package options are also available to

will ensure that equipment is

catastrophic failures, proce

These sensitive electroni

electrical and electronic

nerated surge events, such as lightning and grid switching, quipment is also suscep damage by internally generated surges. In fact, the majority of

microprocessors and other sensitive electronic equipme monly used items, such fluorescent lighting ballasts, ility-wide surge protection ht dimmers, photocopiers, fax nes and variable frequent drives. This further reinforces the many pieces of equipment ection applied at all stages of the electrical distribution ervice entrance down to the

single-phase loads.

Standards and certifications aging leading to failure. The UL 1449 4th Edition application of surge protective recognized component for the United States and Canada, problems with sensitive covered by Underwriters electronic equipment, keeping ne equipment and the related processes up and running reliably without disruption or damage and follow-up service

metal oxide varistor (MOV 20 kA nominal discharge current (In) rating (maximun

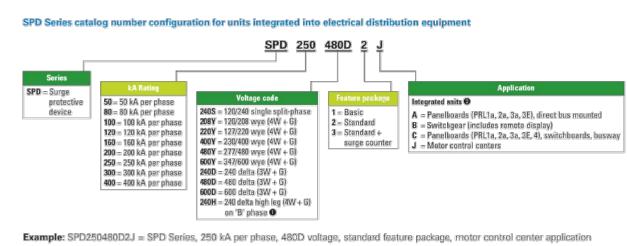
· Uses thermally protected

rating assigned by UL)

- 50 through 400 kA surge current capacity ratings Three feature package options
- 200 kA short-circuit current rating (SCCR)
- Available integrated within assemblies: panelboards, switchboards, motor control transfer switches and bus
- Can be used for UL 96A
- · Can be used for NFPA 780
- Can be used for RoHS 10-year warranty

The breadth of the SPD Series' features, options and configurations ensures that the correct unit is available for all electrical applications, including service entrances, distribution switchboards, panelboards and point-of-use applications.

scription	Ratings
ge current capacity per phase	50, 80, 100, 120, 160, 200, 250, 300 and 400 kA ratings available
minal discharge current (I _n)	20 kA
ort-circuit current rating (SCCR)	200 kA
D type	Basic feature package = Type 1 (can also be used in Type 2 applications) Standard and standard with surge counter feature packages = Type 2
stem voltages available (Vac)	
Single split-phase (three-wire plus ground)	120/240
hree-phase wye (four-wire plus ground)	120/208, 127/220, 230/400, 277/490, 347/600
'hree-phase delta (three-wire plus ground)	240, 480, 600
hree-phase high leg delta (four-wire plus ground)	120/240
nput power frequency	50/60 Hz
tection modes	
Single split-phase	L-N, L-G, L-L, N-G
'hree-phase wye	L-N, L-G, L-L, N-G
hree-phase delta	L-G, L-L
hree-phase high leg delta	L-N, L-G, L-L, N-G
erating temperature	-40 °F to +122 °F (-40 °C to +50 °C)
erating humidity	5% through 95%, noncondensing
ency certifications and approvals	UL 1449 4th Edition recognized component for the United States and Canada UL 1283 7th Edition (Type 2 SPDs only)
arranty	10 years



• Please consult the factory for 240 delta high leg (4W + G) applications with high leg on 'C' phase.

Units used in PRL1a, 2a, 3a and 3E panelboard applications are available in 50–200 kA ratings only.
 Use the "C" option for PRL1a, 2a, 3a and 3E panelboard applications when unit is connected through a circuit breaker





REVISIONS **SHORE POINT MATERING**

> Certificate of Authorization No. 24GA28317800 Kevin E. Shelly P.E. PE No. GE05031300 PO Box 257, Manasquan, NJ 08736 T: 732-924-8100 | F: 732-924-8110 www.shorepointengineering.com

> > Kevin E. Shelly, P.E. PROFESSIONAL ENGINEER

N.J. Lic. No. GE05031300

SITE PLAN WAIVER COMMUNITY SOLAR

SOLAR ROOFTOP SYSTEM - 2 KEYSTONE AVE BLOCK 493.01, LOT 1 SITUATED IN

TOWNSHIP OF CHERRY HILL, CAMDEN COUNTY, NEW JERSEY CONSTRUCTION DETAILS

AS SHOWN SLA-2419 RELEASED BY: DATE: 02/21/25 CHECKED BY: Sheet Number OF 3 DRAWN BY:

PROJECT No.: