CITY OF DARIEN TEMPORARY AMENDMENT TO PLANNING AND ZONING COMMISSION MEETING RULES FOR COMPLIANCE WITH ILLINOIS OPEN MEETINGS ACT:

- In person attendance at Planning and Zoning meetings will resume June 1, 2020.
- The public will be permitted to attend a Planning and Zoning meeting but the meeting room will be limited to 10 members of the public at one time. The public will be required to maintain social distancing rules and are required to wear a mask while in the building.
- The public is encouraged to participate in the Planning and Zoning Commission meeting by submitting questions and comments via email to the City Planner Joe Hennerfeind at <u>ihennerfeind@darienil.gov</u>.
- Emails providing public comment shall be submitted prior to the start of the Planning and Zoning Commission meeting.

CITY OF DARIEN PLANNING AND ZONING COMMISSION

Wednesday, June 17, 2020 7:00 PM City Hall Council Chambers 1702 Plainfield Road

AGENDA

- 1. Call to Order
- 2. Roll Call
- 3. Regular Meeting

A. Public Hearing - PZC 2020-06

8131 Lemont Road (Solar Panel Screening Variation)

Petitioner RETHINK Electric seeks approval to vary Section 5A-5-9-8(B)5 of the City Zoning Code requiring non-flush mounted solar panels to be screened at 8131 Lemont Road in Darien, Illinois.

- 4. Correspondence
- 5. Old Business
- 6. New Business

7. Approval of Minutes June 3, 20208. Next Meeting July 1, 2020

9. Public Comments [On any topic related to planning and zoning]

10. Adjournment

MINUTES CITY OF DARIEN PLANNING & ZONING COMMISSION MEETING June 3, 2020

PRESENT: Lou Mallers – Chairperson, Michael Desmond, Robert Erickson, Bryan Gay,

Hilda Gonzalez, Steve Hiatt, Julie Kasprowicz, Brian Liedtke, Ralph

Stompanato

ABSENT: None

OTHERS: Joseph Hennerfeind-City Planner

Chairperson Lou Mallers called the meeting to order at 7:00 p.m. at the Darien City Hall, Council Chambers, 1702 Plainfield Road, Darien, Illinois. Chairperson Mallers declared a quorum present and swore in the audience members wishing to present public testimony.

REGULAR MEETING:

A. Public Hearing PZC 2020-04—7729 Warwick Avenue (Front Yard Setback Variation). Petitioners Daniel and Linda Gombac seek approval of a variation to Section 5A-7-2-6(A) of the City Zoning Code requiring a 35 foot front yard setback, for a proposed porch addition to the existing house at 7729 Warwick Avenue in Darien, Illinois.

Mr. Joe Hennerfeind, City Planner reported that the home was platted in 1959 with a permitted 30' front yard setback to the street and was incorporated as part of Darien in the R-2 zoning district with a 35' front yard setback.

Mr. Hennerfeind reported that the homes in the subdivision vary and most are small ranches. He reported that the petitioners are rehabbing the home and adding a detached garage and propose to construct a 6' wide porch addition that would be at 29.8' or a 5.2" encroachment into the required 35' front yard setback.

Mr. Hennerfeind reported that the petitioners completed the Findings of Fact and that the 6' wide porch fits within the character of the community and is not excessive.

Mr. Daniel Gombac, petitioner stated that the home was built in 1959 and he is unclear as to why the setback was further. He stated that the goal is to construct a craftsman style home with the ambiance of a front porch. He added that the PZC had the renderings in the packet.

Mr. Gombac stated that he spoke with the adjacent neighbors and has their support.

Chairperson Mallers stated that he was unfamiliar with that section of Darien and that a vast majority of the homes in the area will probably be updated.

Commissioner Hiatt stated that the proposal is consistent with the homes in the neighborhood and that the variance request is very small. He further stated that he was pleased with the rehab and that it was not a knock down.

Commissioner Stompanato stated that he appreciated the extra effort to contact the neighbors.

Commissioner Desmond questioned if any neighbors were opposed.

Mr. Gombac stated that he and his wife went door to door for over four hours trying to get the entire block and although some were not home there was no opposition.

There was no one else in the audience wishing to present public comment and Chairperson Mallers closed the public hearing at 7:11 p.m.

Commissioner Desmond reviewed the Findings of Fact and presented the motion.

Commissioner Desmond made a motion and is was seconded by Commissioner Stompanato approval of a variation to Section 5A-7-2-6(A) of the City Zoning Code requiring a 35 foot front yard setback, for a proposed porch addition to the existing house at 7729 Warwick Avenue in Darien, Illinois.

Upon roll call vote, THE MOTION CARRIED 9-0.

B. Public Hearing PZC 2020-05 -7532 South Cass Avenue (Sign Variations). Petitioner City of Darien requests approval to permit the construction of 2 (two) electronic message board signs adjacent Cass Avenue and Plainfield Road, located within the B-2 Community Shopping Center Business District.

Mr. Joe Hennerfeind, City Planner reported to the audience members and the Commission that this is the second time discussing and that it is almost identical to what was discussed in February and that the structure has not changed.

Mr. Hennerfeind reported that City Council was presented with all of the options and a third option was considered that would permit the installation of one sign, and limit construction of the second sign exclusively to infrastructure and that completion of the second sign could not occur without a second ordinance of approval by Council. He reported that this process would allow for codification of the necessary variations, permit construction of the first sign to evaluate net effect in advance of the second sign, and provide expiration of the second sign variations in the event it was not requested within one year of initial construction.

Mr. Hennerfeind reported that although City Council recommended this third alternative directing staff to prepare the necessary corresponding ordinance, the ordinance did not receive approval, specifically for details in the Lease Agreement. He reported that since the denial that staff has renegotiated the lease terms and received authorization from Council to represent the third option for new consideration.

Mr. Hennerfeind reported that the amended request would be approval to permit the construction of one electronic message board sign with conditional approval for a second sign subject to the following provisions:

- a. Infrastructure and foundation for the second sign many be completed with initial construction.
- b. Prior to the above-grade construction of the second sign, signage shall be subject to additional approval by Council ordinance.
- c. In the event a second sign is not requested or constructed, variation approvals for said second sign will expire one year after the date the first signage becomes operational.

Mr. Hennerfeind reported that the proposed conditions would be written into the approving ordinance. He reported that the Lease Agreement has been revised to reduce the lease term to 10 years from 25 years with options for automatic renewals and provides the City with second 10-second spot with opportunities to allow non-profits with the City to utilize. He further reported that the owner of Brookhaven is entitled to one spot to share for the 2 businesses on the property and the grocery store.

Chairperson Mallers opened the meeting to anyone wishing to present public comment.

Ms. Pamela Taylor, Darien questioned the construction at Brookhaven and questioned how the sign is contributing to tax revenue and if the City is making any money from the structure.

Mr. Hennerfeind reported that the construction is the Dunkin Donuts with a drive-thru and a pizzeria which is independent of the petition this evening. He reported that the City has a working relationship with the property owner and the easement. He further reported that there is no revenue benefit from the sign but that the slots for advertising is of monetary value to the City.

Mr. Bill Przybylski, Chicago Billboards stated that he is working very closely with staff and that there will be a pond less water feature incorporated within the sign.

Mr. Hennerfeind reported that Director Dan Gombac designed a water feature with the first sign and if a second sign is incorporated the water feature will be seen facing southeast.

Commissioner Kasprowicz questioned the cost of an advertising slot.

Mr. Przybylski stated that because of Covid 19 that the rates are down. He stated that rates range from \$600 - \$900 per month . He further stated that Brookhaven, the Pizzeria, and the Dunkin Donuts will share one slot with slots at full rate advertising.

Commissioner Desmond questioned what other changes were made to the terms of lease. He asked if the use restrictions were new.

Mr. Hennerfeind reported that the lease could be discussed, but does not necessarily influence the variation requests. He stated that use restrictions were always a part of the lease, but had not been previously discussed. Changes include a second slot for non-profits, the shorter lease term, and no discounts to the other Brookhaven tenants. He reported that if the City does not like the sign in 10 years the lease can be renegotiated.

Commissioner Kasprowicz questioned what happens to the property should the lease be terminated.

Mr. Przybylski stated that they will restore the property back to the original state.

There was some discussion regarding Amber Alerts, setting up messaging and graphics.

Commissioner Gay stated that he did some research at the sign at 103rd and Cicero. He stated that it was the closest benchmark as to what is being proposed in Darien.

Commissioner Gay provided photos showing the size of the sign, advertising on the sign 32 miles away and the proximity to the street. He submitted the photos for evidence and stated that having a sign is going to create more competition for the businesses in town. Commissioner Gay stated that he was not in favor of a sign.

Commissioner Gonzalez stated that the signs are gigantic and block the view of the stores. She referenced the signs in Willowbrook that are high and more attractive.

Commissioner Hiatt stated that advertising 5-10 miles away is more risk and that he is hung up on the size. He stated that the second sign blocks the view.

Commissioner Liedtke questioned the maintenance upgrades and if they were included.

Mr. Przybylski stated that maintenance upgrades are done after 10 years and that everything is included.

Commissioner Stompanato stated that staff received a lot of emails against the sign. He stated that the size is overpowering to everyone.

Commissioner Liedtke questioned if the sign could be done without a variance.

Mr. Przybylski stated that the sign is not feasible and not buildable under the standards of the City of Darien zoning.

Commissioner Desmond questioned why the City of Darien is a party to the lease and why not between the property owner and the sign company. He stated that he did not understand it and that it is very unusual. He questioned how other signs are done.

Mr. Przybylski stated that it is mixed. Some are owned by the municipality and some are private.

Commissioner Desmond stated that this creates a liability for the City of Darien.

Mr. Hennerfeind reported that staff and the City Attorney have discussed the lease.

Commissioner Kasprowicz questioned if the City has explored doing a sign. Mr. Hennerfeind reported that it was not discussed.

Commissioner Desmond questioned if any traffic study was done. Mr. Hennerfeind reported that a traffic study was not done.

Commissioner Hiatt stated that the lease is not a zoning issue.

Commissioner Erickson questioned how advertising is done.

Mr. Przybylski stated that his partner works very closely with the Chambers of Commerce and other opportunities.

There was no one else in the audience wishing to present public comment.

Commissioner Hiatt made a motion and it was seconded by Commissioner Kasprowicz to approve Public Hearing PZC 2020-05 -7532 South Cass Avenue (Sign Variations) to permit the construction of 2 (two) electronic message board signs adjacent Cass Avenue and Plainfield Road, located within the B-2 Community Shopping Center Business District.

Upon roll call vote, THE MOTION WAS DENIED 8-1.

Aye – Erickson Nay – Desmond, Gay, Gonzalez, Hiatt, Kasprowicz, Liedtke, Mallers, Stompanato

Commissioner Liedtke made a motion and is was seconded by Commissioner Gonzalez approval to permit the construction of 1 electronic message board adjacent Cass Avenue and Plainfield Road, located within the B-2 Community Shopping Center Business District.

Upon roll call vote, THE MOTION CARRIED 5-4.

Aye — Liedtke, Gonzalez, Mallers, Erickson, Hiatt Nay — Desmond, Gay, Kasprowicz, Stompanato

CORRESPONDENCE

There was no correspondence.

OLD BUSINESS

There was no old business.

NEW BUSINESS

There was no new business.

APPROVAL OF MINUTES

Commissioner Desmond made a motion and is was seconded by Commissioner Liedtke to approve the May 6, 2020 Regular Meeting Minutes.

Upon voice vote, THE MOTION CARRIED 8-0. Commissioner Gay abstained.

NEXT MEETING

Chairperson Mallers announced that the next meeting is scheduled for June 17, 2020.

PUBLIC COMMENTS (On any topic related to planning and zoning)

There was no one in the audience wishing to present public comment.

ADJOURNMENT

With no further business before the Commission, Commissioner Liedtke made a motion and it was seconded by Commissioner Desmond. Upon voice vote, THE MOTION CARRIED unanimously, and the meeting adjourned at 8:30 p.m.

RESPECTFULLY SUBMITTED:	APPROVED:	
Elizabeth Lahey	Lou Mallers	
Secretary	Chairperson	

AGENDA MEMO PLANNING AND ZONING COMMISSION June 17, 2020

Case

PZC 2020-06 8131 Lemont Road (Solar Panel Screening Variation)

Issue Statement

Petitioner RETHINK Electric seeks approval to vary Section 5A-5-9-8(B)5 of the City Zoning Code for relief from the screening requirement for non-flush mounted solar panels at 8131 Lemont Road in Darien, Illinois.

General Information

Petitioner: RETHINK Electric

850 North Central Avenue

Wood Dale, IL 60191

Owner: Safeguard Self Storage

3384 Peachtree Road, 4th Floor

Atlanta, GA 30326

Property Location / PIN#: 8131 Lemont Road / 09-32-106-034 Zoning / Land Use: Site: OR&I / Self-storage facility

North: OR&I / Office-warehouse and cell tower South: OR&I / Rockwell building and parking lot

East: OR&I / Office-warehouse

West: Woodridge (Zoned OR&I, currently single-family)

Comprehensive Plan: Office/Research/Industrial
Size of Subject Lot: 117,437 square feet, 2.69 acres

Transportation: Frontage to Lemont Road to both east (234') and north (430')

Zoning Provisions

Section 5A-5-9-8(B)5 / Solar Energy Systems, Building Mounted standards

Development History and Proposal

The Safeguard Self-Storage facility received approvals in 2002 and was constructed shortly thereafter. The building sits approximately 75 feet from the primary Lemont Road frontage, and 100 feet from the north road frontage. Several large deciduous trees help to screen the buildings height, which is 3 stories and approximately 40 feet. The building is unique in that there is no parapet wall at the cap of the building. Parapet walls typically extend higher than the roof, and are often constructed to screen various types of rooftop equipment.

The petitioner proposes to install a solar array in the flat roof of the building. Solar panels installed on a flat roof must be installed at an angle, and although not excessive in height, are approximately 14 inches off the roof at the highest point.

Section 5A-5-9-8(B)5 states "panels on a flat roof that are not flush-mounted must have a parapet or screening wall between the panels and the adjacent street and said parapet or screening wall must be at least as high as the panels." Non-Flush mounted panels are further defined as any panels that extend more than 6 inches above the roof.

As presented, at 14 inches in height and without parapet wall on the building to properly screen the panels, the installation cannot occur without a variation. The petitioner has provided a response to the variation standards in a justification narrative which is attached.

The petitioner states that the unique condition of the property is the overall height of the building in comparison to surrounding development, and that the panels will not be seen in close proximity to the building. Line-of-sign diagrams have been provided for discussion.

Petitioner Documents (attached to this memo)

- 1. Application, including variation justification
- 2. Plat of Survey
- 3. Site Plans
- 4. Solar Racking Plans
- 5. Line of Sight Drawings

<u>Staff Documents</u> (attached to this memo)

- 6. Location Map
- 7. Zoning Variation Decision Criteria

Staff Plan Review

The City's solar code was revised in 2018 with the intention of removing obstructions to solar arrays when meeting certain conditions. Although the intent of the code was to prevent flat-roofed buildings, which are primarily commercial and office buildings, from installing visible solar panels and degrading the quality of a building's architectural elevation, there were no exceptions written in the code when the impact would be unseen or minimal. Staff is supportive of the request based on the information as presented.

Findings of Fact

The Petitioner was asked to provide evidence or finding-of-fact that would support the requested variation, especially in terms of the pertinent variation criteria. Staff notes relevant criteria below:

- Unique Circumstances This building was constructed in and industrial/office area with large setbacks and without a parapet screen wall.
- Character of the Locality Although the roof has no parapet to screen the panels, the building's height will eliminate or minimize any visual effect to the adjacent properties.
- Smallest Solution Installation of a screen or parapet wall will require significant improvements to the roof structure.

Pending Meeting Schedule

Planning and Zoning Commission: June 17, 2020

Municipal Services Committee: TBD

City Council: July 20, 2020



ZONING APPLICATION

CITY OF DARIEN
1762 Flainfield Road, Darien, IL 60561
www.darienil.us 630-852-5000

CONTACT	INFORESATION
COLLINS	DESCRIPTION OF THE PERSON ASSESSMENT OF THE PE

Garrison Riegel	Robert Lebrier
Applicant's Name	Owner's Name
850 N. Central Ave. Wood Dale, IL 60191	3384 Peachtree Rd 4th Floor, Atlanta GA 30326
Address, City, State, Zip Code	Address, City, State, Zip Code
630-998-3629	215-335-1927
Telephone	Teléphone
Garrison@rethinkelectric.com	Rlabrier@safeguardit.com
Email	Email
PROPERTY INFORMATION	
Safeguard Storage - 8131 S. Lemont Rd. Darler	n, IL 60561 09-32-106-03/5
Property address	PIN Number(s)
Commercial, Property Class I	Commercial Building, Storage Units
Zoning District	Current Land tise(s)
(Attach additional information per the Submittal Checklist.)	
REQUEST	
Brief description of the zoning approval requested. (Contact	t the City Planner for quidance.)
We request a Variance from this statement: Panels on a flet roof that are and the adjacent street and set parapet or screening well must be at leasure request a Variance because the proposed solar system will not be se This particular racking plus modules (collectors) only reaches a height of flet mod which was the factalities.	not flush-mounted must have a paraget or screening wall between the name
As Notary Public, in and for DuPage County in Illinois, I do hereby that	Date Received: 5 1 2 12 5





Justification Narrative: City of Darien

This justification narrative is in regards to the PV solar array being proposed on top of the Safeguard Storage building located at 8131 Lemont Rd. Darien, IL. We are requesting that we are permitted to construct this solar array without adding a parapet wall on the perimeter of the building as written in the City of Darien's code.

The variance is being requested due to there being no net visual benefit to adding this parapet wall to shield the array from being seen. As it currently exists, there are no vantage points that allow the system to be seen from around the building or from neighbors' buildings. There are currently roof hatches and other HVAC equipment on the roof that are of similar or greater height than our proposed solar array, and those cannot be seen from the surrounding areas.

Hardship condition would be an undo financial cost burden on the building owner. Adding a parapet wall is a costly endeavor and may involve modifying the structure of the building. This cost may effectively kill the project because the cost would be too great for the project to bear. In addition, the building is owned by a larger franchise entity which has a specific marketing brand/color scheme/aesthetic, and adding this parapet wall may disrupt that exterior brand.

As previously mentioned, there would be no impact on neighbors since it will not be possible to see the solar array from their vantage points. They will not know it is present.

2a. Not applicable

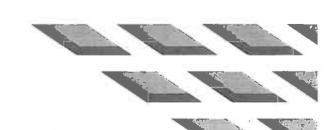
- 2b. We are currently installing numerous systems around numerous different cities and towns in Illinois and this is the only jurisdiction that is making such a request. Modifying the exterior of the building in this way is unnecessary, especially in this case where there will be no net benefit for anyone.
- 2c. The location of this building is in an industrial park, so adding a solar array to the roof without a parapet will not affect the essential character of the locality. The roof is 3 stories off the ground.
- **3a.** As previously mentioned, if we were required to construct a parapet wall it may jeopardize the financial viability of installing solar at this store location.

3b. Not applicable

- 3c. There is no other simple and efficient way to install solar on this roof, although modifying our solar design would still not comply with the code the way it is presently written.
- 3d. Installing solar on top of this building will not cause any difficulty, hardship, burden or loss of value to neighboring buildings. Buildings are generously spaced, it is contained within an industrial park and the roof that the solar will be installed on is as high or higher than any other neighboring building.
- **3e.** Future variances pertaining to solar array isntallations can be considered on a case by case basis based on the unique visual circumstances and the surrounding area where the building exists.

630.747.4587

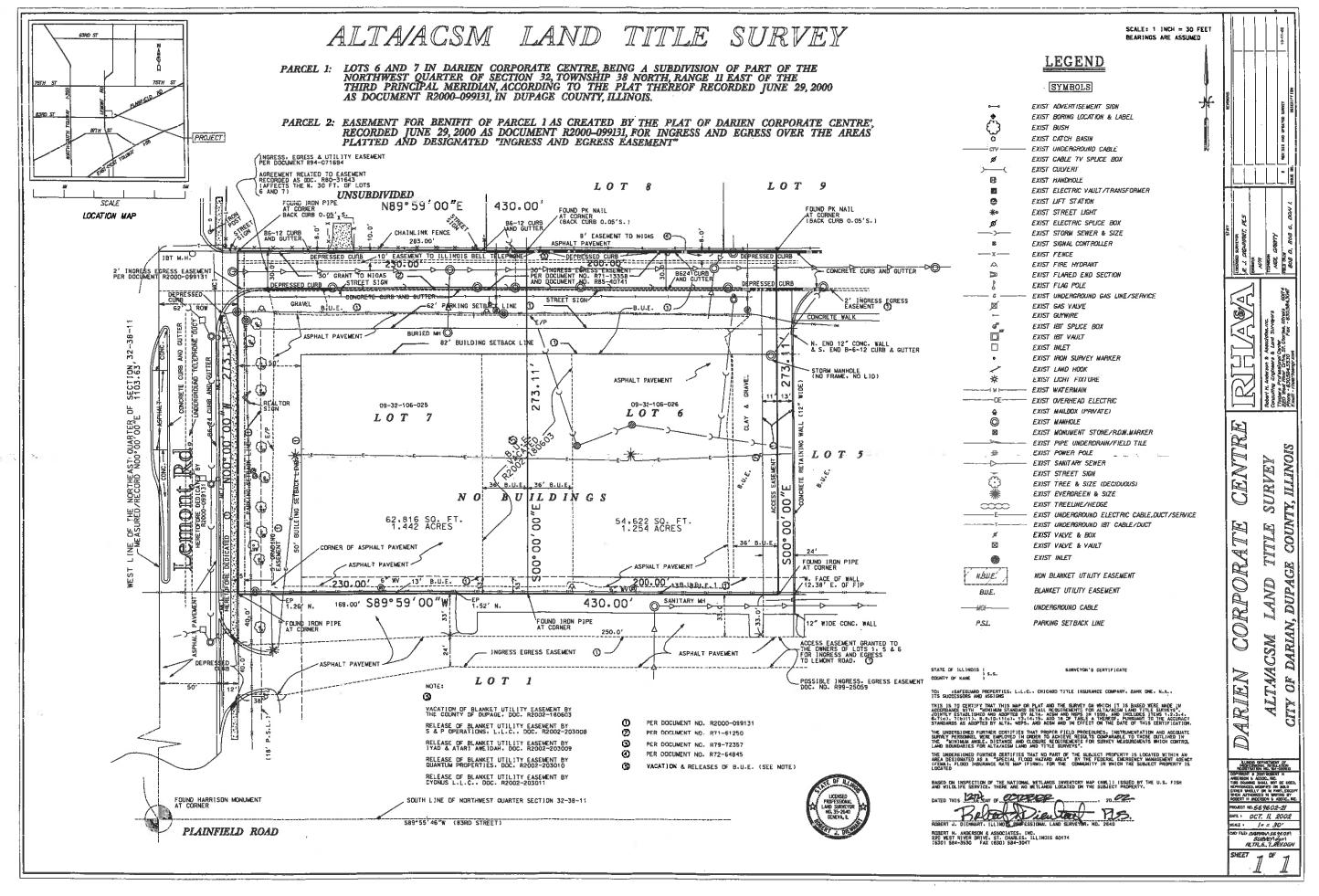
RethinkElectric.com





3f. The positive impact on making an exception to this code is to increase the adoption of clean, renewable and distributed energy in local communities such as Darien. If commercial solar projects are required to construct parapet walls on all buildings it will disincentivize building owners and solar installers from trying to build solar in your City.

3g. The only thing that this solar installation will do is increase the value of the building due to it having its own energy generation on site. The only other thing that could be considered is aesthetic, which does not apply here because it cannot be seen from any reasonable vantage point.



SCOPE OF WORK SYSTEM SIZE: 110960W DC, 100000W AC

MODULES: (304) ADANI ASM-7-PERC-365
INVERTER(S): (2) CHINT POWER SYSTEMS CPS SCA50KTL-DO/US-480
RACKING: PANELCLAW POLAR BEAR HDIII - 56" ROW-TO-ROW SPACING
ATTACHMENT: PANELCLAW BALLAST ATTACHMENT

WIND EXPOSURE: 8
WIND SPEED: 115mph
GROUND SNOW LOAD: 25psf
OCCUPANCY: PRIMARY COMMERCIAL
CONSTRUCTION TYPE: COMMERCIAL

2014 NEC, 2015 IBC, 2015 IFC

BUILDING HEIGHT: 40 FEET PV SYSTEM SQUARE FOOTAGE: 6608.96 sqft

This approval is for compliance to the current adopted building codes for the proposed Solar System only. It is the owner's responsibility to ensure that the proposed installation of solar systems and associated equipment is on legally permitted structures. If determined by inspection staff the proposed solar system is installed on non-permitted structures, any required modifications needed for code compliance will be at the owner's expense

GENERAL NOTES

- LOCAL UTILITY PROVIDER SHALL BE NOTIFIED PRIOR TO USE AND ACTIVATION OF ANY SOLAR PHOTOVOLTAIC INSTALLATION
- THIS PROJECT SHALL COMPLY WITH LOCAL ORDINANCES
- PROPER ACCESS AND WORKING CLEARANCE WILL BE PROVIDED
- ALL ELECTRICAL WORK SHOWN ON THESE PLANS WILL BE COMPLETED BY THE UNDERSIGNED
- ALL APPLICABLE PV EQUIPMENT LISTED AND COMPLIANT WITH UL2703, UL1741 AND UL1703
- THE SYSTEM WILL NOT BE INTERCONNECTED UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND THE UTILITY IS OBTAINED
- THE SOLAR PHOTOVOLTAIC INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS
- IF THE EXISTING MAIN PANEL DOES NOT HAVE VERIFIABLE GROUNDING ELECTRODE, IT IS NECESSARY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE
- EACH MODULE WILL BE GROUNDED PER UL 2703 OR UL 1703 APPROVED METHOD USING THE SUPPLIED CONNECTION POINTS IDENTIFIED ON THE MODULE AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS
- A LADDER SHALL BE IN PLACE FOR THE INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS
- ALL WORK SHALL COMPLY WITH 2014 NEC, 2015 IBC, 2015 IFC MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTION.
- PHOTOVOLTAIC SYSTEM WILL COMPLY WITH 2014 NEC.
- PHOTOVOLTAIC SYSTEM INVERTER IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER, AND SYSTEM COMPLIES WITH 690.35.
- MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.
- INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741.
- ELECTRICAL EQUIPMENT AND MATERIAL TO BE LISTED, LABELED, AND INSTALLED PER THE NEC, THE INSTALLATION STANDARDS/MANUFACTURER'S RECOMMENDATIONS AND IF REQUIRED A RECOGNIZED ELECTRICAL TESTING LABORATORY.
- CONDUITS EXPOSED TO SUNLIGHT ON ROOF SHALL BE LOCATED NOT LESS THAN 7/8" ABOVE ROOF SURFACE.

VICINITY MAP





PROJECT SITE

TABLI	E OF CONTENTS
PAGE#	DESCRIPTION
PV 1.0	COVER SHEET
PV 2.0-2.1	SITE PLAN
PV 2.2	ROOF PLAN
PV 3.0	STRING DIAGRAM
PV 4.0-4.1	ELECTRICAL
PV 5.0	WARNING LABELS



CONTRACTOR

RETHINK ELECTRIC
POLINA KOSEVA
850 N. CENTRAL AVE
WOOD DALE, IL 60191
Phone:(630) 621-8009
Email:polina@rethinkelectric.com

DEVELOPER

PIVOT ENERGY 1536 WYNKOOP ST., DENVER, CO 80202

PROJECT NAME & ADDRESS

SAFEGUARD STORAGE

8131 LEMONT RD DARIEN, IL 60516

PROFESSIONAL ENGINEER STAMP

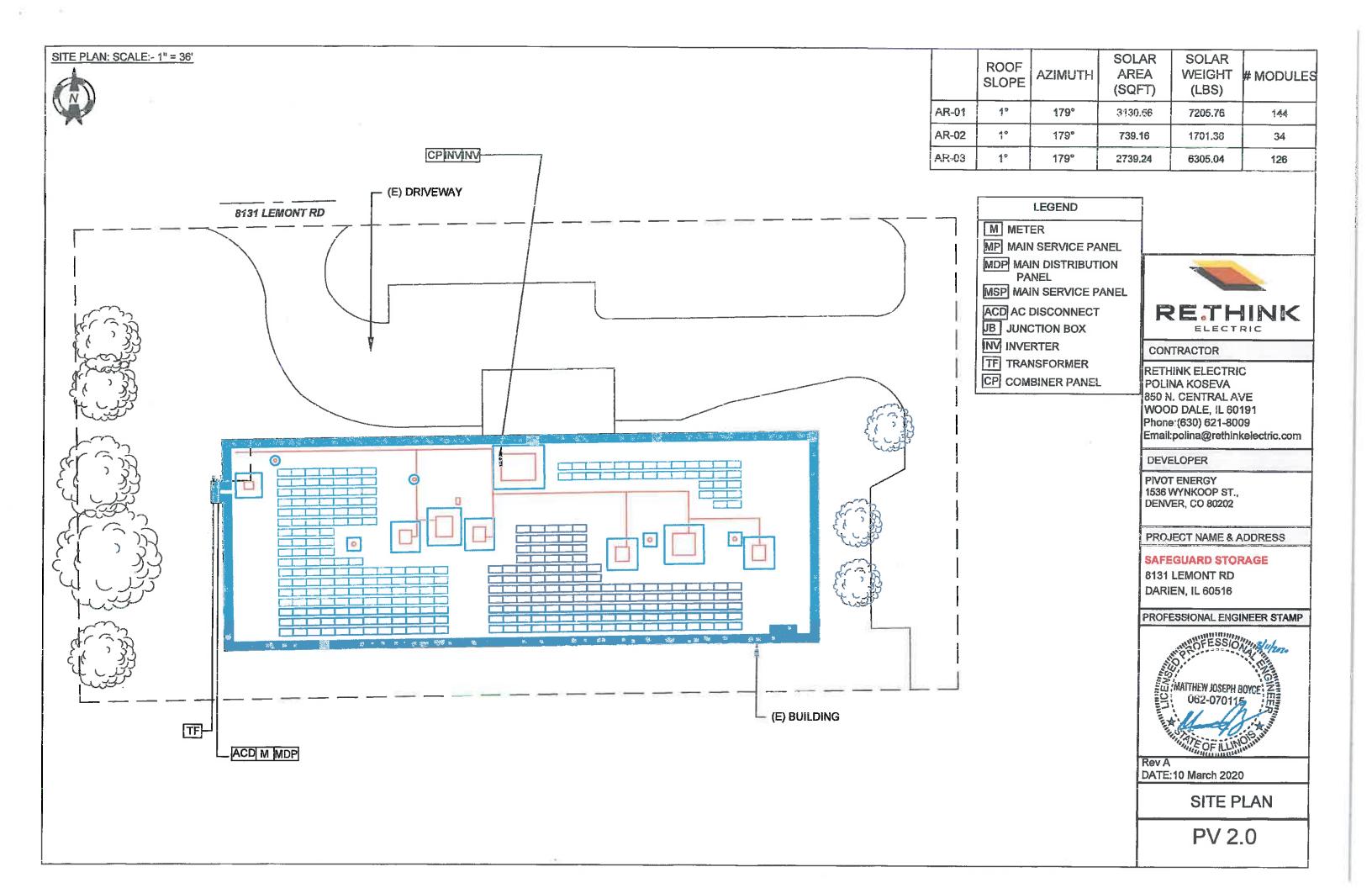


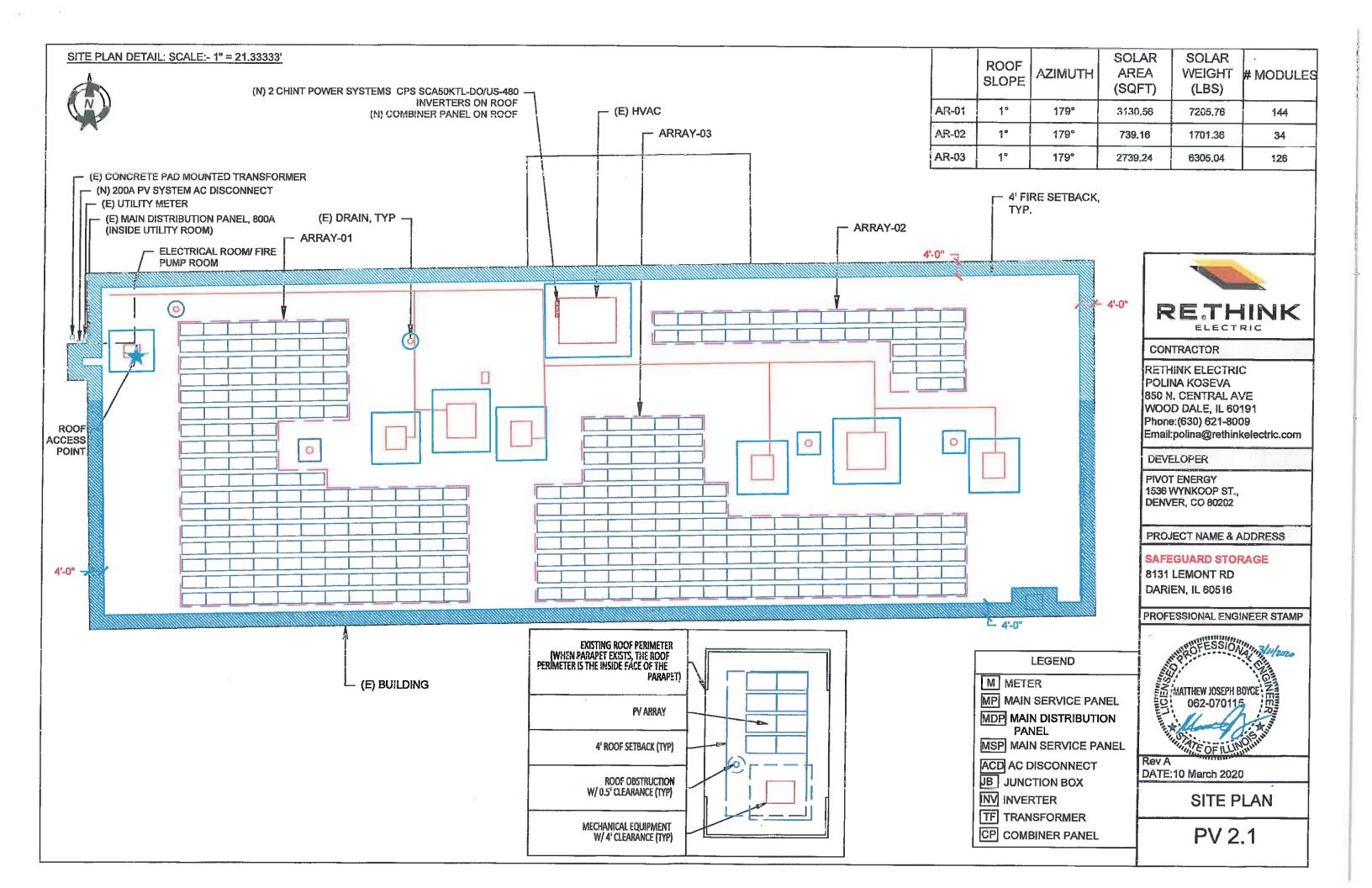
Rev A

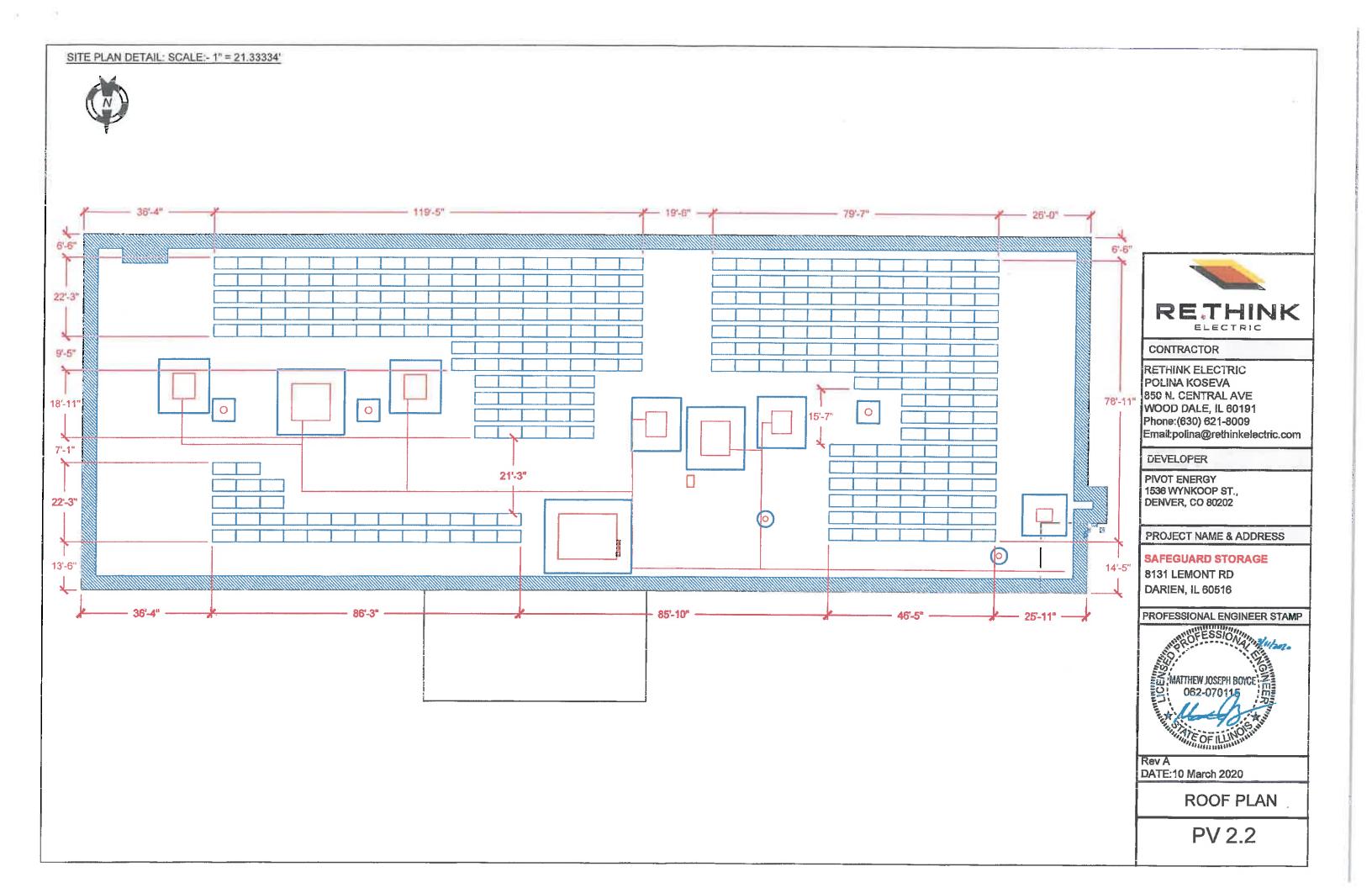
DATE:10 March 2020

COVER SHEET

PV 1.0







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



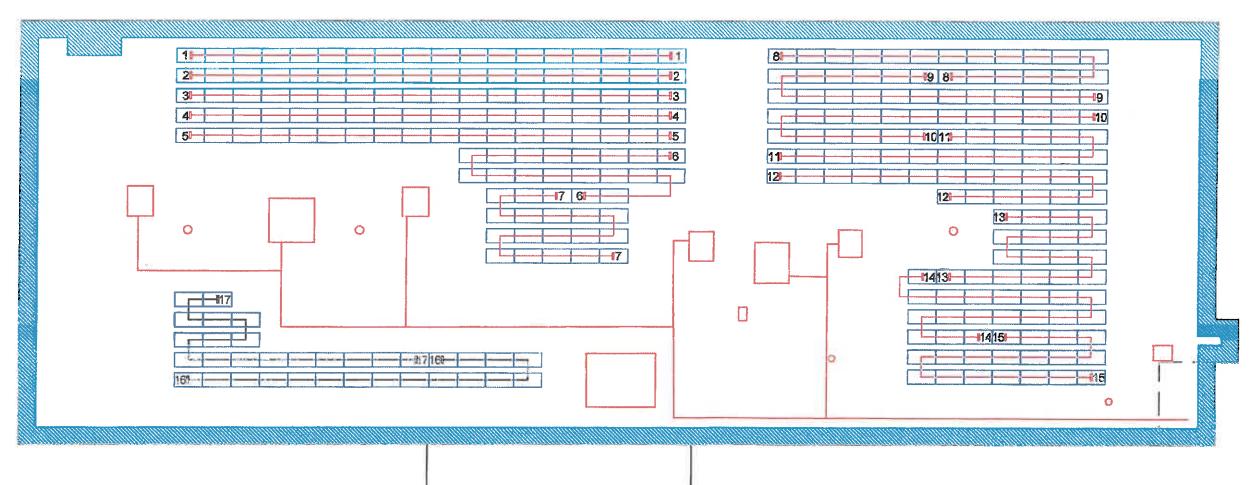
LEGEND

STRING LENGTH: 18 MODULES NO. OF STRINGS: 15

TSTRING LENGTH: 17 MODULES NO. OF STRINGS: 2

MPPT	STRING	STRING LENGTH
_	1	18 MODULES
(iNV-1)	2	18 MODULES
,,	3	18 MODULES
	4	18 MODULES
(INV-1)	5	18 MODULES
	6	18 MODULES
1.	7	18 MODULES
C (INV- 1)	8	18 MODULES
	9	18 MODULES

MPPT	STRING	STRING LENGTH
	10	18 MODULES
D (INV- 2)	11	18 MODULES
	12	18 MODULES
	13	18 MODULES
(INV-2)	14	18 MODULES
L` _	15	18 MODULES
F (INV- 2)	16	17 MODULES
	17	17 MODULES





CONTRACTOR

RETHINK ELECTRIC
POLINA KOSEVA
850 N. CENTRAL AVE
WOOD DALE, IL 60191
Phone:(630) 621-8009
Email:polina@rethinkelectric.com

DEVELOPER

PIVOT ENERGY 1536 WYNKOOP ST., DENVER, CO 80202

PROJECT NAME & ADDRESS

SAFEGUARD STORAGE

8131 LEMONT RD DARIEN, IL 60516

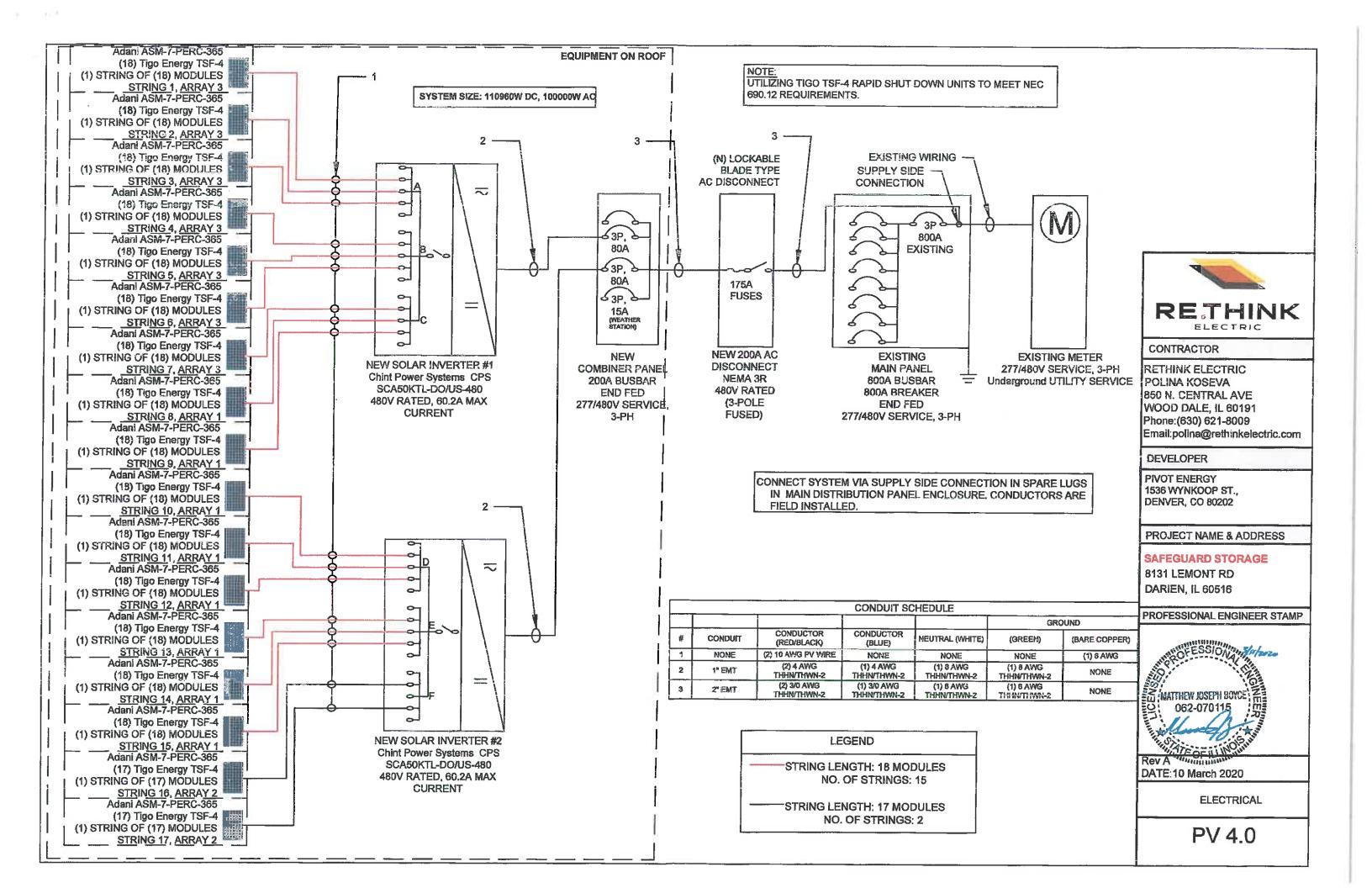
PROFESSIONAL ENGINEER STAMP



Rev A DATE:10 March 2020

STRING DIAGRAM

PV 3.0



INVERTER RATINGS				
MAKE	CHINT POWER SYSTEMS			
MODEL.	CPS SCA50KTL-DO/US-480			
MAX INPUT CURRENT	180A			
MAX POWER (AC)	50000VV			
MAX DC INPUT VOLTAGE	1000V			
RATED OUTPUT VOLTAGE	480V			
MAX AC CURRENT	60.2A			
CEC EFFICIENCY	98.5%			

	MODULE AND A	RRAY RATINGS:	(304) MODULES)	
SOLAR MO	DDULE RATINGS (STC)		STRING 1-15	STRING 16 & 17
MAKE	ADANI	SERIES	18	17
MODEL	ASM-7-PERC-365	PARALLEL	1	1
lmp	9.36A	lmp	9.36A	9.36A
Vmp	39.01V	Vmp	702.18V	663.17V
Isc	9.93A	isc	9.93A	9.93A
Voc	47.31V	Voc	851.58V	804.27V
Pmax	365W	Pmax	6570W	6205W
%Voc/C	-0.29%	Voc @ extreme min. temp	972.59V	918,56V

CONDUCTOR SIZING CALCULATIONS								
CIRCUIT DESCRIPTION	CURRENT	imax (690.8(A))	lcont (690.8(B)(2)(a) calc	SPECIFIED CONDUCTOR	AMPACITY @ 90c	AMBIENT TEMP c	CURRENT CARRYING COND.	COND. OF USE APPLIED (690.8(B)(2)(b) calc
INVERTER AC OUTPUT	6D.2A	60.2A	60.20A lmax x 1.25 = 75.25A	#4 THWN-2	95A	31-35	1-3	95A x 0.96 (am b. temp.) x1 (raceway fill) = 91.2A
COMBINER PANEL OUTPUT	120.4A	120,4A	120.4A lmax x 1.25 = 150.25A	#3/0 THVVN-2	225A	31-35	1-3	225A x 0.96 (am b. temp.) x1 (raceway fill) = 216A

	TERMIN	IAL TEMPERATURE RATING	CONSIDERATIONS		
CIRCUIT DESCRIPTION	CURRENT	Icont	TERMINAL TEMP RATING	SPECIFIED CONDUCTOR	AMPACITY @ TERMNAL TEMP. RATING
PV SOURCE CIRCUIT STRING 1-15	9.93A	12.41A x 1.25 = 15.52A	75C	#10	35A
PV SOURCE CIRCUIT STRING 16 &17	9.93A	12.41A x 1.25 = 15.52A	75C	#10	35A
INVERTER AC OUTPUT	60.2A	60.20A Imax x 1.25 = 75.25A	75C	#4	85A
COMBINER PANEL OUTPUT	120.4A	120.4A lmax x 1.25 = 150.25A	75C	#3/0	200A

VOLTAGE DROP CALCULATIONS					
LENGTH	ł	Ohms/kFt	V	CALC	Vdrop
50Ft	9.93A	0.6282	1000V	50' x 9.93A x 2 x 0.6282/1000/1000V=	0.06%
50Ft	9,93A	0.9989	1000V	50' x 9.93A x 2 x 0.9989/1000/1000V=	0.10%
30Ft	60.2A	0.2485	480V	30' x 60.2A x 2 x 0.2485/1000'/480V=	0.19%
30Ft	120,4A	0.0618	480V	30' x 120.4A x 2 x 0.0618/1000'/480V=	0.09%



CONTRACTOR

RETHINK ELECTRIC
POLINA KOSEVA
850 N. CENTRAL AVE
WOOD DALE, IL 60191
Phone (630) 621-8009
Email:polina@rethinkelectric.com

DEVELOPER

PIVOT ENERGY 1536 WYNKOOP ST., DENVER, CO 80202

PROJECT NAME & ADDRESS

SAFEGUARD STORAGE

8131 LEMONT RD DARIEN, IL 60516

PROFESSIONAL ENGINEER STAMP



Rev A DATE:10 March 2020

ELECTRICAL

PV 4.1

INSTALL ON THE UTILITY METER

WARNING

THIS SERVICE METER
IS ALSO SERVED BY A
PHOTOVOLTAIC SYSTEM

INSTALL ON THE MAIN BREAKER PANEL

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

TO BE INSTALLED IN ACCORDANCE WITH SECTION 690.56(C):

CAUTION: SOLAR ELECTRIC
SYSTEM CONNECTED

PHOTOVOLTAIC SYSTEM
AC DISCONNECT

OPERATING VOLTAGE 480 VOLTS
OPERATING CURRENT 120 4 AMPS

WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

INSTALL ON PV ONLY SUBPANEL

NOTICE
PV SYSTEM COMBINER PANEL
DO NOT ADD LOADS TO THIS PANEL

LABEL LOCATION LOAD CENTER

[Only use when applicable for PV load center]

INSTALL ON THE AC DISCONNECT

AC DISCONNECT

OPERATING VOLTAGE 480 VOLTS
OPERATING CURRENT 120 4 AMPS

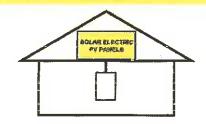
PV SYSTEM DISCONNECT FOR UTILITY OPERATION

WARNING

ELECTRIC SHOCK HAZARD

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

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN



TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY.

INSTALL ON THE INVERTER#1

PHOTOVOLTAIC SYSTEM DC DISCONNECT

OPERATING VOLTAGE 972.59 VDC
OPERATING CURRENT 84.24 AMPS
MAX SYSTEM VOLTAGE 1000 VDC
SHORT CIRCUIT CURRENT 89.37AMPS
CHARGE CONTROLLER MAX N/A AMPS

INSTALL ON THE INVERTERS

WARNING

ELECTRIC SHOCK HAZARD

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

WARNING

ELECTRIC SHOCK HAZARD

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

TO BE INSTALLED EVERY 10 FEET ON ALL EXTERIOR CONDUIT, RACEWAYS AND BOXES

WARNING: PHOTOVOLTAIC POWER SOURCE

INSTALL ON THE INVERTER#2

PHOTOVOLTAIC SYSTEM DC DISCONNECT

OPERATING VOLTAGE 972.59 VDC
OPERATING CURRENT 74.88 AMPS
MAX SYSTEM VOLTAGE 1000 VDC
SHORT CIRCUIT CURRENT 79.44AMPS
CHARGE CONTROLLER MAX N/A AMPS



CONTRACTOR

RETHINK ELECTRIC
POLINA KOSEVA
850 N. CENTRAL AVE
WOOD DALE, IL 60191
Phone:(630) 621-8009
Email:polina@rethinkelectric.com

DEVELOPER

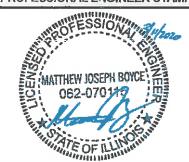
PIVOT ENERGY 1536 WYNKOOP ST., DENVER, CO 80202

PROJECT NAME & ADDRESS

SAFEGUARD STORAGE

8131 LEMONT RD DARIEN, IL 60516

PROFESSIONAL ENGINEER STAMP



Rev A DATE:10 March 2020

WARNING LABELS

PV 5.0



Partner Name: ReThink Electric

Project Name: SG - Darien

Project Location: 8131 Lemont Road

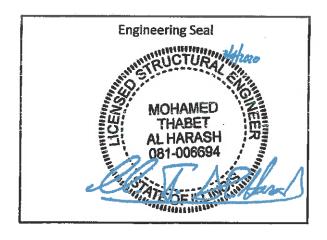
Darien, IL, 60516

Racking System: Polar Bear III HD



Structural Calculations for Roof-Mounted Solar Array

Submittal Release: Rev O





2.0 Snow Load:

Snow Calculations per ASCE 7-10, Chapter 7

2.1 Snow Load Data:

Ground Snow Load (Pg) = 2	25.00	psf	ASCE, Figure 7-1
Exposure Factor (Ce) =	1		ASCE, Table 7-2
Thermal Factor (Ct) =	1.2		ASCE,Table 7-3
importance Factor (is) =	1		(ASCE, Table 1.5-2)
Flat Roof Snow Load (Pf) = 0.7*Pg*Ce*Ct*	ils=	<u>21.00</u> psf	(ASCE 7.3-1)
ow Load for Low Slope Roof = 20*Is=		20.00 psf	(ASCE 7.3.4)

Min Snow Load for Low Slope Roof = 20*ls= Snow Load on Array (SLA) = 21.00 psf

 SL_A

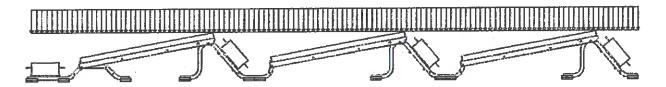


Fig. 2.1 - Uniform Roof Snow Load on Array

2.2 Snow Load Per Module:

Snow Load per Module (SLM) = Module Projected Area * SLA

Where;

Module Projected Area (Amp) = Module Area * Cos(Module Tilt)

Where;

Module Area = 21.72 sq.ft.

Module Tilt = 10.40 degrees

Amp = 21.36 sq.ft.

 $SL_M = A_{mp} * SL_A = 448.65$ lb



6.0 Design Loads - Downward:

6.1 Downward Wind Load Calculation:

$$WL_{in} = q_z * A_m * C_{fz} * \cos \theta$$

Where:

qz = 18.17 psf

Am = 21.72 sq.ft.

(Single Module Area)

 θ = 10.40 deg.

 $C_{fz} = 1.13$

(Inward)

 $C_{fz} = 0.30$

(Inward with snow)

 WL_{in} (no snow) =

439 lbs./module

 $WL_{tn}(with snow) =$ 116 lbs./module **Contact Pad by Location:**

A = Northern

B = Northern

C = Interior

D = Interior

E = Southern

F = Southern

(Ref. Pg. 3, Wind Load)

(Ref. Pg. 1, Project Information)

(Ref. Pg. 1, Project Information)

(Proprietary Wind Tunnel Data)

(ASCE 7-10 figure 30.4-2A)

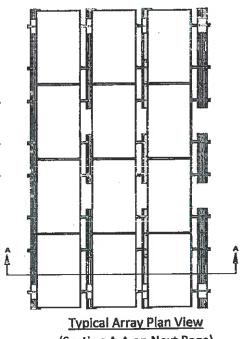
6.2 Racking Dimensions for Point Loads:

Inter-Module Support Spacing =

46.85 in.

32.81 in.

Inter-Column Support Spacing =

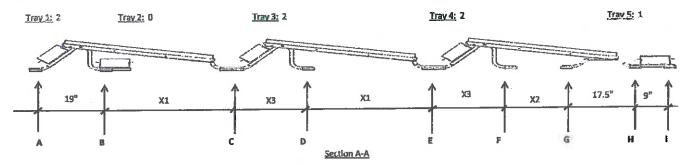


(Section A-A on Next Page)



6.0 Design Loads - Downward (CONT.):

6.2 Racking Dimensions for Point Loads (Cont.):



<u>Distances Between Supports (Unless Noted):</u>

X1 = 34.25 in.

X2 = 14.33 in.

X3 = 21,77 in.

6.3 Point Load Summary:

OLsys = 72

Total DL = (Varies on location and ballast quantity)

SLm = 449 lbs./module
Wiin (no snow) = 439 lbs./module
Wiin (with snow) = 116 lbs./module

		Extreme Poin	t Load Summary Tab	le			
	Load	load combinations (ASD)					
Location		DL + Sum	DL+06XWin	DL + 0.75 X SLin + 0.75(0.6 X WL)r			
Nontren	1	86 ibs.	63 lbs.	79 lbs.			
Northern.	10.00	76 lbs.	53 lbs.	68 lbs.			
interior.	it.	152 lbs.	105 lbs.	137 lbs.			
Interior	-0	141 ibs.	94 lbs.	126 lbs.			
Interior	1	152 lbs.	105 lbs.	137 lbs.			
interior	F	141 lbs.	94 lbs.	126 lbs.			
Soigthern)	10.00	43 lbs.	28 lbs.	38 lbs.			
Southern	H	51 lbs.	36 lbs.	46 lbs.			
Sauthern		51 lbs.	36 lbs.	46 lbs.			
For Chricking	-1	893 lbs.	615 lbs.	804 lbs.			

Table 6.1-A Extreme Point Load Summary

Language			Point Loads (lb/single block) at each Tray Location						
Location		Tray 1	Tray 2	Tray 3	Tray 4	Tray 5			
Mor Dage	i.	11 lhs.							
Northern		5 lbs.	16 lbs.						
Interior				11 lbs.					
Interior	10			5 lbs.					
Interior	NE:				11 lbs.				
Interior					5 lbs.				
Southern .	16								
Southern	91					8 lbs.			
Soctiem						8 lbs.			

Table 6.1-B Single Block Point Load Summary





ETERNAL SERIES

5BB Mono-Crystalline PERC Silicon Solar PV Modules – 1500V Series

ASM-7-PERC-AAA (AAA=365 - 390) | 72 Cells | 365 - 390 Wp

Highlights



Higher performance at longer wavelengths of light (1100-1200 nm)



Superior temperature co-efficient and performance at NOCT, PTC ratings



Excellent performance at low light irradiation (200 W/m2)



LIR treated cells with least LID effect



5 bus bar cells offering better reliability against microcracks



Triple EL checking to ensure defect free modules

Reduces installation costs by 3%

Reduces transport costs by 3%

Reduces land costs by 3% Reduces BOS costs by 6%

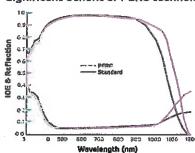
2019 TOP PERFORMER*

TPVE,

DNV:GL

RELIABILITY SCORECARD

Significant benefit of PERC technology



PERC technology enables better light capturing abilities at longer wavelength, weak and diffused light and in cloudy conditions.

adani

Solar

Technical Data

Electrical data - All data measured to STC*

Pmax (Wp)	365	370	375	380	385	390	
Maximum voltage, Vmpp	(V)	39.01	39,16	39.34	39.5	39.66	39.82
Maximum current, Impp	(A)	9.36	9,46	9.55	9.64	9.743	9.84
Open circuit voltage, Voc	(V)	47.31	47.47	47.67	47.77	47.99	48.16
Short circuit current, isc	(A)	9.93	9.99	10.03	10.06	10.11	10.16
Module efficiency	(%)	18.09	18.34	18.58	18.9	19.1	19.35

Electrical parameters at NOCT

Maximum Power Pmax @ N	IOCT	275	279.2	283,4	287.6	291.72	295.88
Maximum voltage, Vmpp	(V)	38.13	38.4	38.6	38.8	39.02	39.24
Maximum current, Impp	(A)	7.21	7.28	7.35	7.41	7.48	7.55
Open circuit voltage, Voc	(V)	46.87	47.09	47.31	47,53	47.77	48.00
Short circuit current, isc	(A)	7.61	7.68	7.75	7.82	7.87	7.94

*STC: Irradiance 1000 W/m² cell temperature 25°C, air mass AM1,5 according to EN 60904-3. Average afficiency reduction of 4.5% at 200 W/m² according to EN 60904-1. Except Pmpp, all other parameters have a tolerance of 4/-3%, measurement uncertainty <3%

*NOCT irradiance 800 W/m2, ambient temperature 20°C, wind speed 1 m/sec

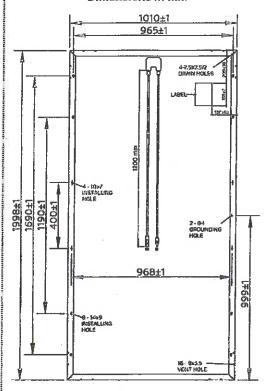
Temperature co-efficients (TC) and permissible operating conditions

TC of open circuit voltage (β)	-0.29% /°C
TC of short circuit current (a)	0.048% /C
TC of power (Y)	-0,39% /°C
Maximum system voltage	1500 V (IEC & UL)
NOCT	45°C ± 2°C
Temperature range	-40°C to + 85°C

Mechanical data

Length	1998 mm
Width	1010 mm
Height	35 mm/40 mm
Weight	22.7 Kg (35 mm) / 23 Kg (40mm)
Junction bax	IP68
Cable and connectors	1200 mm length cable, MC4 & Amphenol compatible connectors
Application class	Class A (Safety class II)
Superstrate	High transmittance arc glass
Celts	72 mono-crystalline PERC solar cells; 5 bus bars
Encapsulation	Low shrinkage PID resistant EVA
Substrate	Tri layer backsheet
Frame	Anodized aluminium frame with twin wall profile
Mechanical load test as per IEC & UL	5400 Pa-front; 2400 Pa-back
Maximum series fuse rating	15 A

Dimensions in mm



Warranty and certifications

Product warranty**
12 years of product warranty

Performance guarantae** Power degradation <-3% in first year <- 0.68% / year in 2-25 years

Approvats and certificates: IEC 61215 Ed2, IEC 61730, IEC 61701, UL 1703, MCS, JET, CEC, CEC-Aus, IEC 62716, IEC 62759, IEC 62804, IEC 62782, IEC 60068-2-68, IEC 61853

*All cartifications are under process &











Note:

Current (A)

** Warranty:
Please read Adani solar warranty documents thoroughly.

Voltage (V)

Note:

 The specifications included in this datesheet are subject to change without notice.
 The electrical date given here is for reference purpose only.

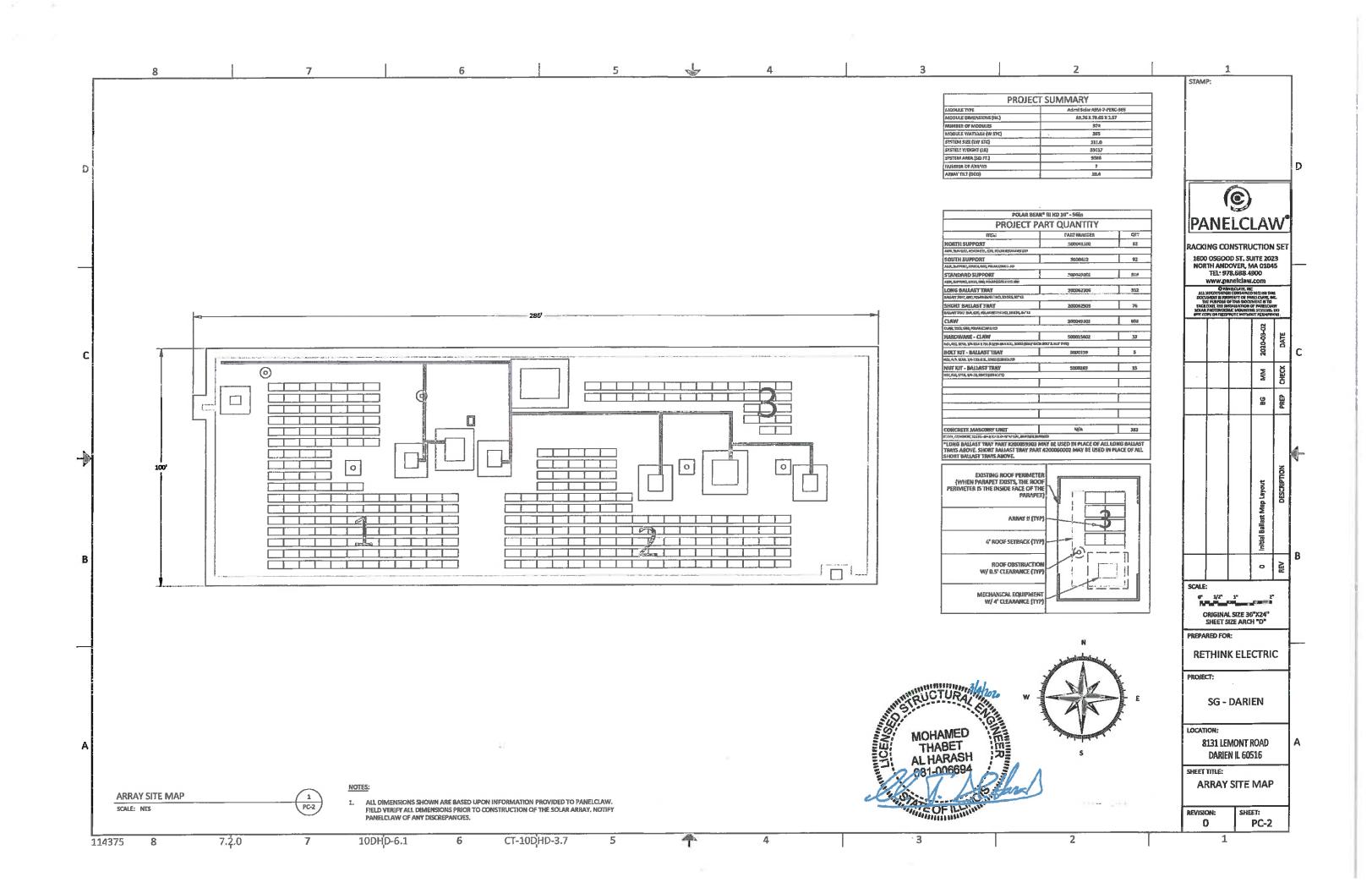
 Please confirm your exact requirements with the sales representative while placing your order. All models sold will be as per MSPVL QAP.

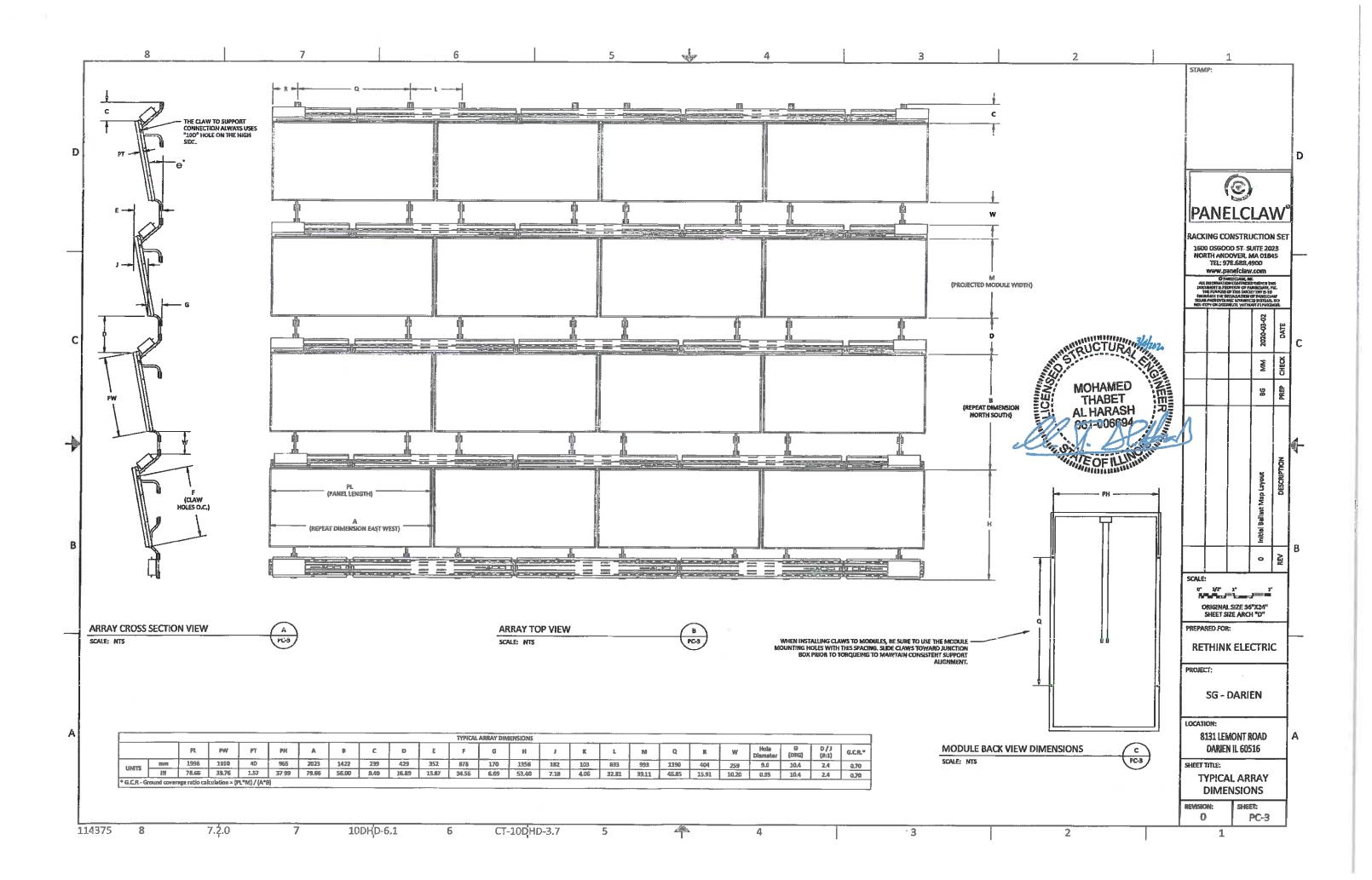
Current-Voltage Curve

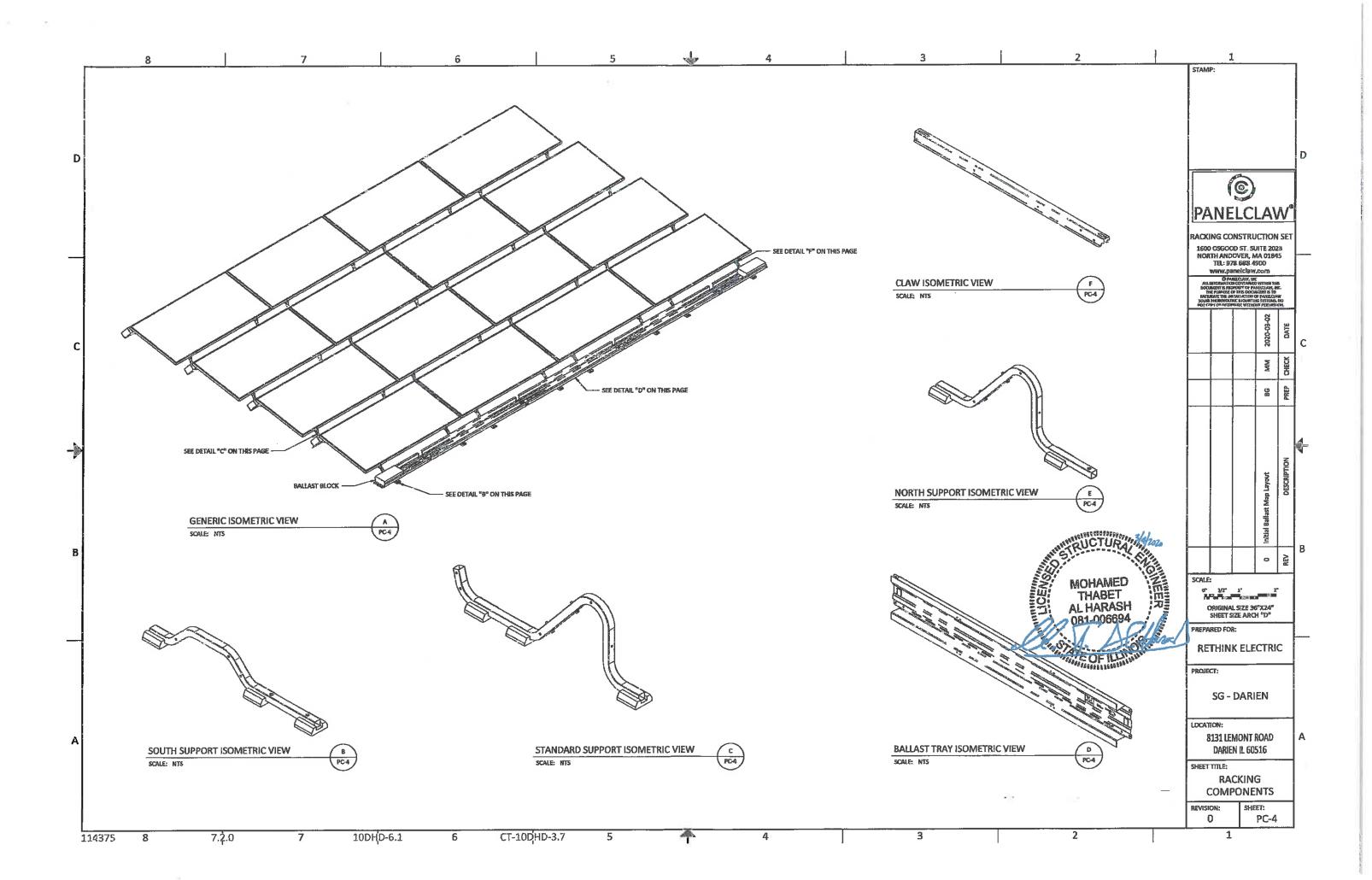
1000V//m anowim-

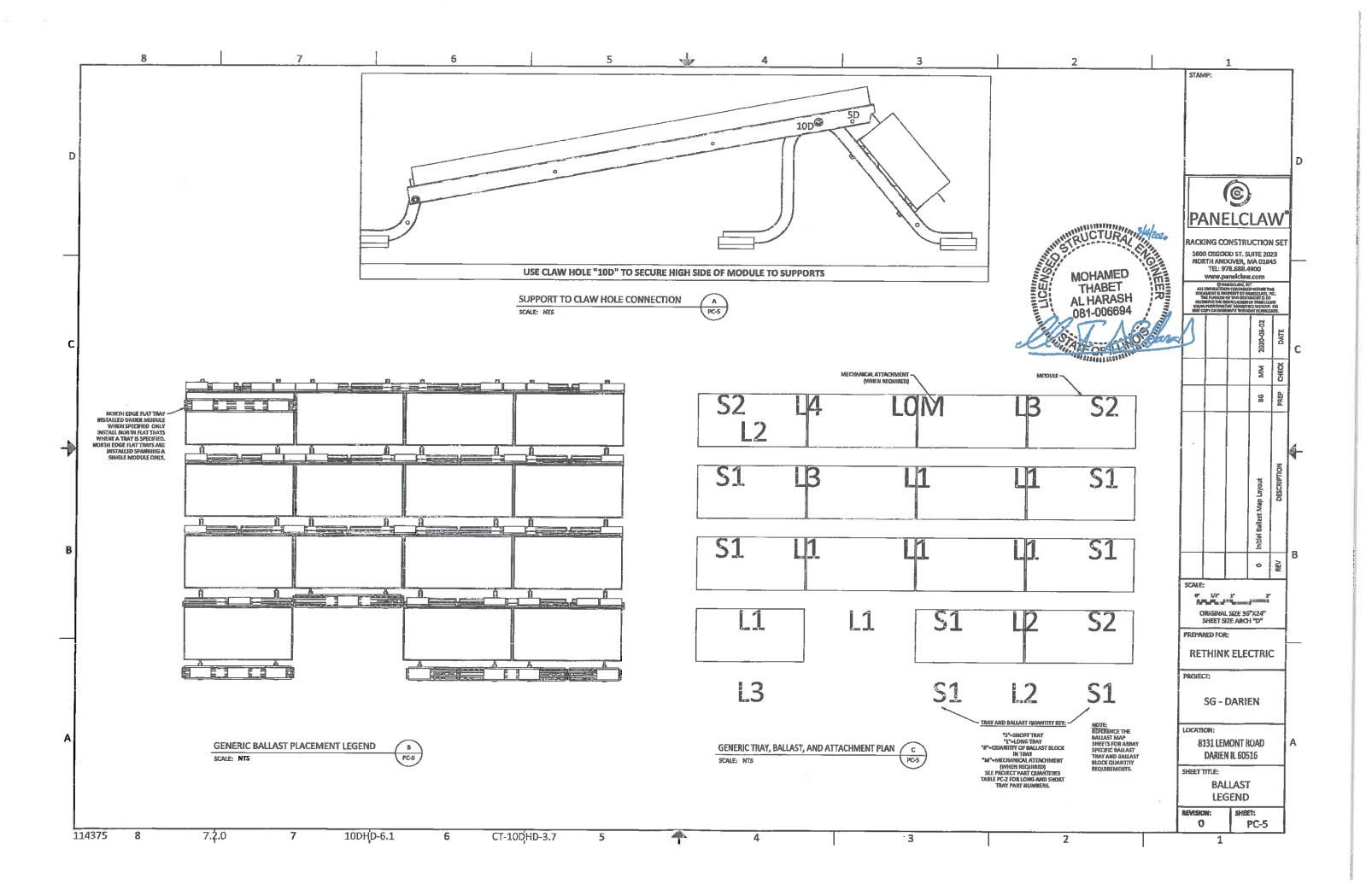
*Caution: Please read safety and installation instructions before using the product.

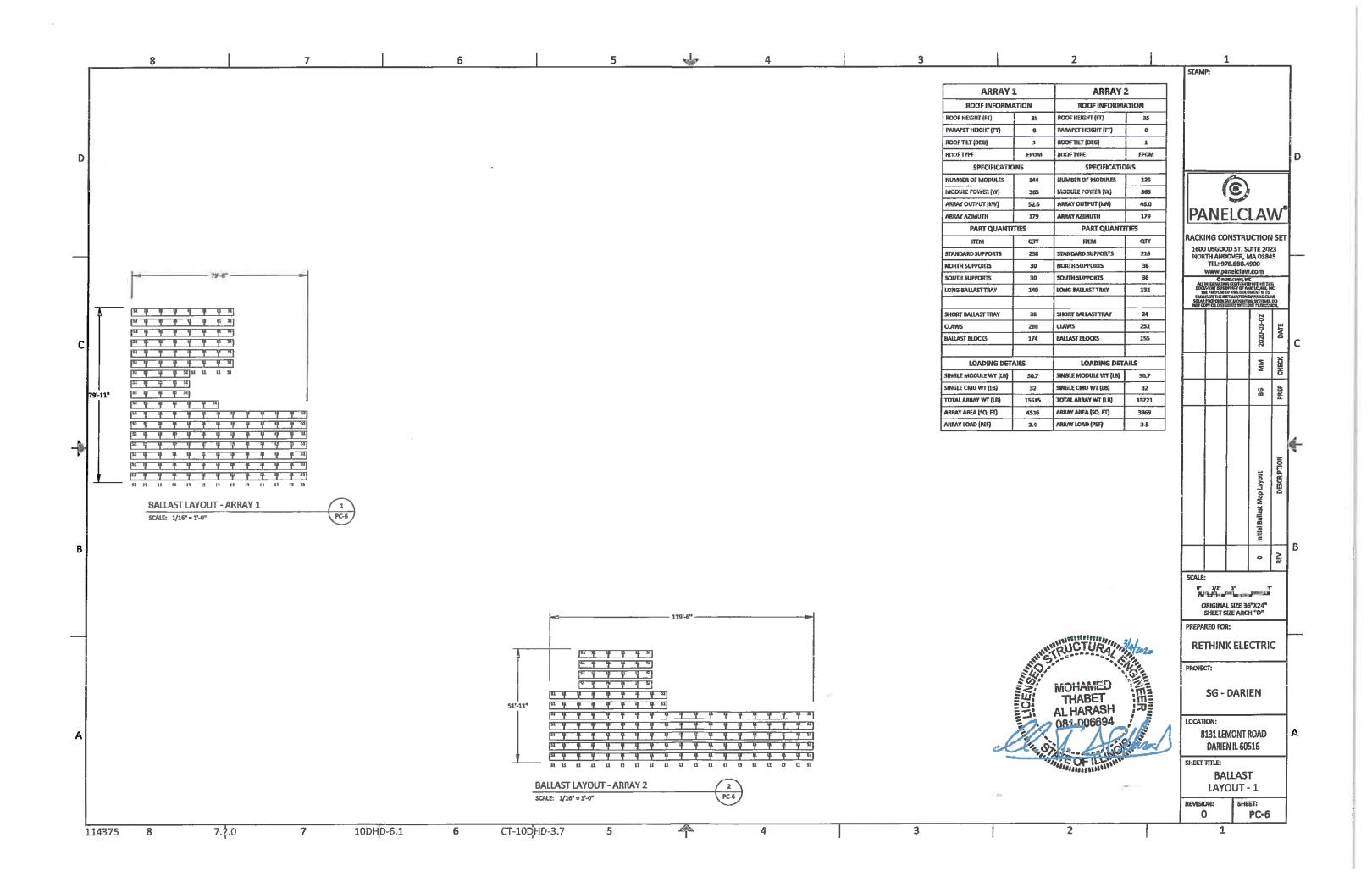
STAMP: Site Design Criteria - Flat Roof PV System Basis of Design **GENERAL NOTES:** SHEET INDEX Roof Live Load (psi)1 20 (see note 1) NO. DESCRIPTION ALL SITE, PROJECT, AND BUILDING DETAILS ARE PROVIDED BY CUSTOMER OR GENERATED VIA SATELLITE IMAGERY FROM INFORMATION PROVIDED BY CUSTOMER. PANELCIAW IS NOT RESPONSIBLE FOR SITE INACCURACIES THAT COULD LEAD TO Ground Snow Pg (psf) PC-1 COVER SHEET 25 PC-2 ARRAY SITE MAP Flat Roof Snow Pf (psf) CHANGES TO THESE DRAWING DETAILS AND ARRAY LAYOUT CONFIGURATIONS, ALL INFORMATION CONTAINED WITHIN THESE DOCUMENTS ARE TO BE FIELD VERIFIED BY CUSTOMER AND INSTALLER, ANY CHANGES OR MODIFICATIONS TO THESE 21 PC-3 TYPICAL ARRAY DIMENSIONS Snow Importance Factor (Is) 1.0 DOCUMENTS, CONTAINED INFORMATION, OR FINAL ARRAY AND MOUNTING SYSTEM INSTALLATIONS MUST BE SUBMITTED PC-4 RACKING COMPONENTS TO PANELCIAW AND OTHER PROJECT AUTHORITIES FOR APPROVAL. Wind Design Data PC-5 BALLAST LEGEND Uit. Wind Speed (mph) 115 PC-6 BALLAST LAYOUT - 1 REFER TO AND FOLLOW THE APPROPRIATE PANELCIAW INSTALLATION MANUALS AND PROCEDURES DURING THE INSTALLATION PROCESS. NOT FOLLOWING SUCH PROCEDURES AND METHODS COULD RESULT IN DAMAGE TO THE COMPONENTS OR MAY VOID THE PRODUCT WARRANTY. Nom. Wind Speed (mph) N/A PC-7 BALLAST LAYOUT - 2 **(©** Risk Category # 3. ARRAY SETBACKS: ALL ARRAYS ARE REQUIRED TO BE SETBACK 4-FEET FROM ALL ROOF EDGES UNLESS OTHERWISE SPECIFIED AND CALLED OUT ON THE ARRAY DIAGRAMS ON THIS PAGE OR ON ADDITIONAL ARRAY BALLAST PAGES. N/A Internal Pressure Coefficient Design Life (years) 25 YEARS PANELCLAW MRI Adjustment Factor 0,93 4. REFER TO THE SPECIFIC ARRAY BALLAST SHEETS FOR BALLASTING REQUIREMENTS BASED ON THE PROVIDED SITE Wind Exposure RACKING CONSTRUCTION SET C and C pressure (psf) (see note 2) 1600 OSGOOD ST. SUITE 2023 5. SYSTEM PSF INCLUDES ALL PANELCIAW RACKING COMPONENTS, MECHANICAL ATTACHMENTS(IF APPLICABLE), PV MODULE NORTH ANDOVER, MA 01845 Earthquake Design Data AND BALLASY BLOCKS. FOR MAXIMUM SYSTEM POINT LOAD SUMMARY (PLS), REFER TO CALCULATIONS. TEL: 978.688.4900 Risk Category www.panelclaw.com PANELCIAW AND/OR PANELCIAW CONSULTING ENGINEERS ARE NOT RESPONSIBLE FOR DETERMINING THE ADEQUACY OF THE STRUCTURE TO SUPPORT LOADS IMPOSED BY THE ARRAY AND MOUNTING SYSTEM. SUPPORT STRUCTURE TO BE importance Factor (le) 1.00 Component Importance Factor (Ip) 1.0 Mapped Acceleration Parameter (Ss) 0.155 ALWAYS ALLOW 6" CLEARANCE BETWEEN ARRAYS AND ALL FIXED ROOF OBJECTS OR ROOF EDGES, REFER TO LOCAL FIRE CODES AND ELECTRICAL CODES FOR ADDITIONAL REQUIREMENTS WHICH MAY GOVERN DESIGN. Mapped Acceleration Parameter(S1) 0.066 Seismic Site Class D - ASSUMED Design Spectral Acceleration Parameter (Sds) 0.165 Design Spectral Acceleration Parameter (Sd1) 0.106 M Seismic Design Category (SDC) Basic seismic-force-resisting system(s) see note 3 BG Base Design Shear = Fp x W 0.08 W Seismic Response Coefficient (Cs) **DRIFTED SNOW LOAD POTENTIAL!** N/A (see note 4) Response Modification Factor (R) 2.5 PANELCIAW HAS IDENTIFIED THIS PROJECT AS POTENTIALLY HAVING SIGNIFICANT ROOFTOP DRIFTED SNOW LOADS, PLEASE HAVE THE SE REVIEWING THE ROOF STRUCTURE FOR POTENTIAL SOLAR APPLICATIONS CONSIDER DRIFTED Analysis Procedure see note 3 Design Code (with local amendments) SNOW LOADS IN THEIR ANALYSES IF DRIFTED SNOW LOADS ARE PRESENT 2015 IBC WITHIN THE PROPOSED ARRAY FOOTPRINT(S), PROVIDE PANELCIAW A DRIFTED ASCE 7-10 SNOW LOAD PLAN SO WE CAN AVOID THESE AREAS OR PLAN FOR ADDITIONAL LOADS ACCORDINGLY, IN GENERAL, DRIFTED SNOW LOADS CAN AFFECT MODULE ADDITIONAL CODE PROVISIONS SEAOC PV1-2012 SELECTION (I.E. MAX PSF) AND POINT LOADING FROM PANELCIAW RACKING TO THE ROOF STRUCTURE. SEAOC PV2-2012 of live Load only applicable to areas not covered by PV madeba, Belevance SEACC Design Geoletines. PV wind design per propertiery wind too relatesting. Note: to extendations for additional inform L. danieris, pracadure per ASCE 2 "Secionic Derive Remisecuents for Non-Pre-SCALE: 0° 2/2° 1° 2 ORIGINAL SIZE 35"X24" SHEET SIZE ARCH "O" RETHINK ELECTRIC PROJECT: SG - DARIEN LOCATION: 8131 LEMONT ROAD DARIEN IL 60516 SHEET TITLE: **COVER SHEET AERIAL PHOTO / SITE DIAGRAM** SHEET: 0 PC-1 114375 7.2.0 10DHD-6.1 CT-10DHD-3.7

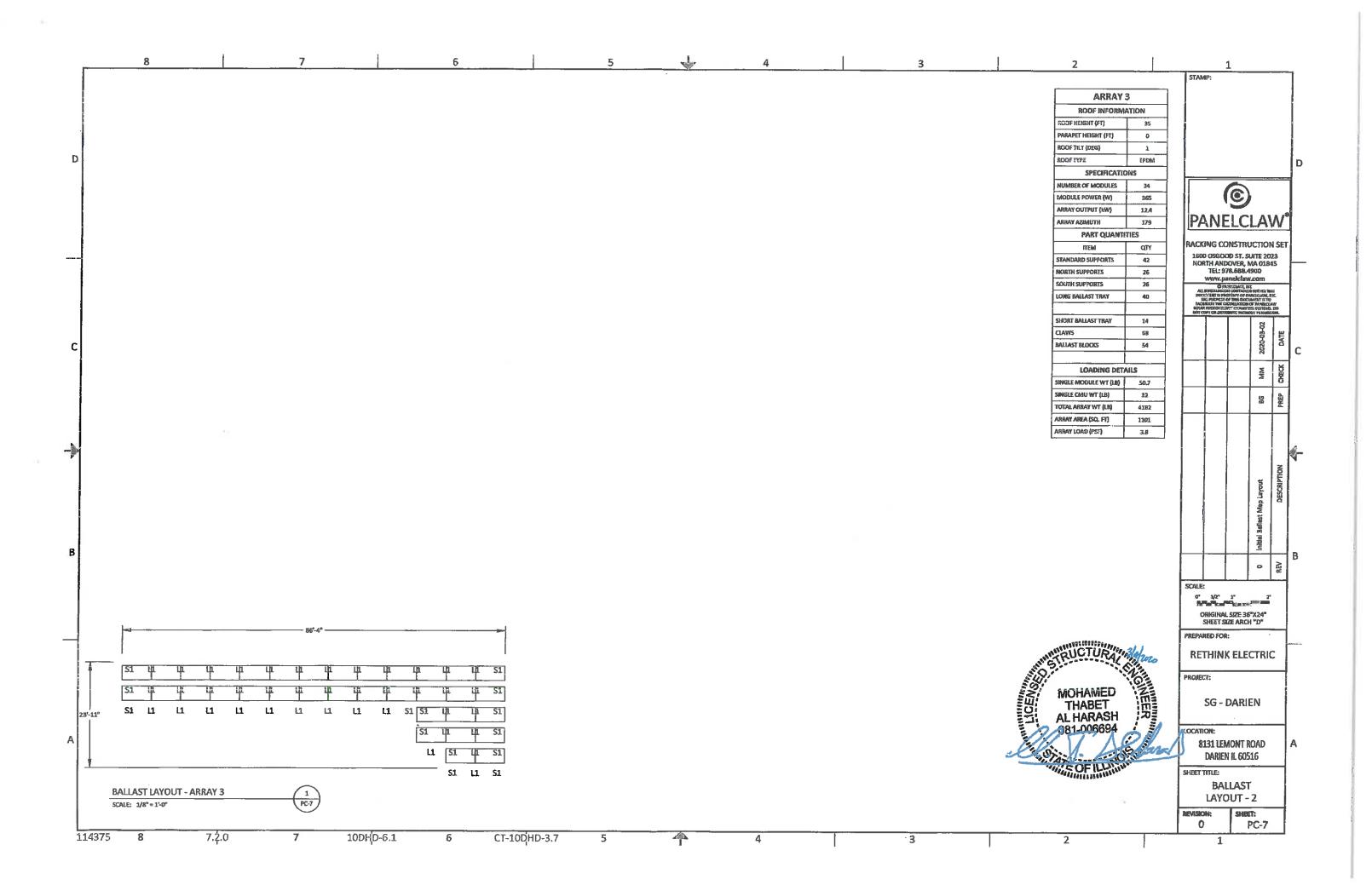






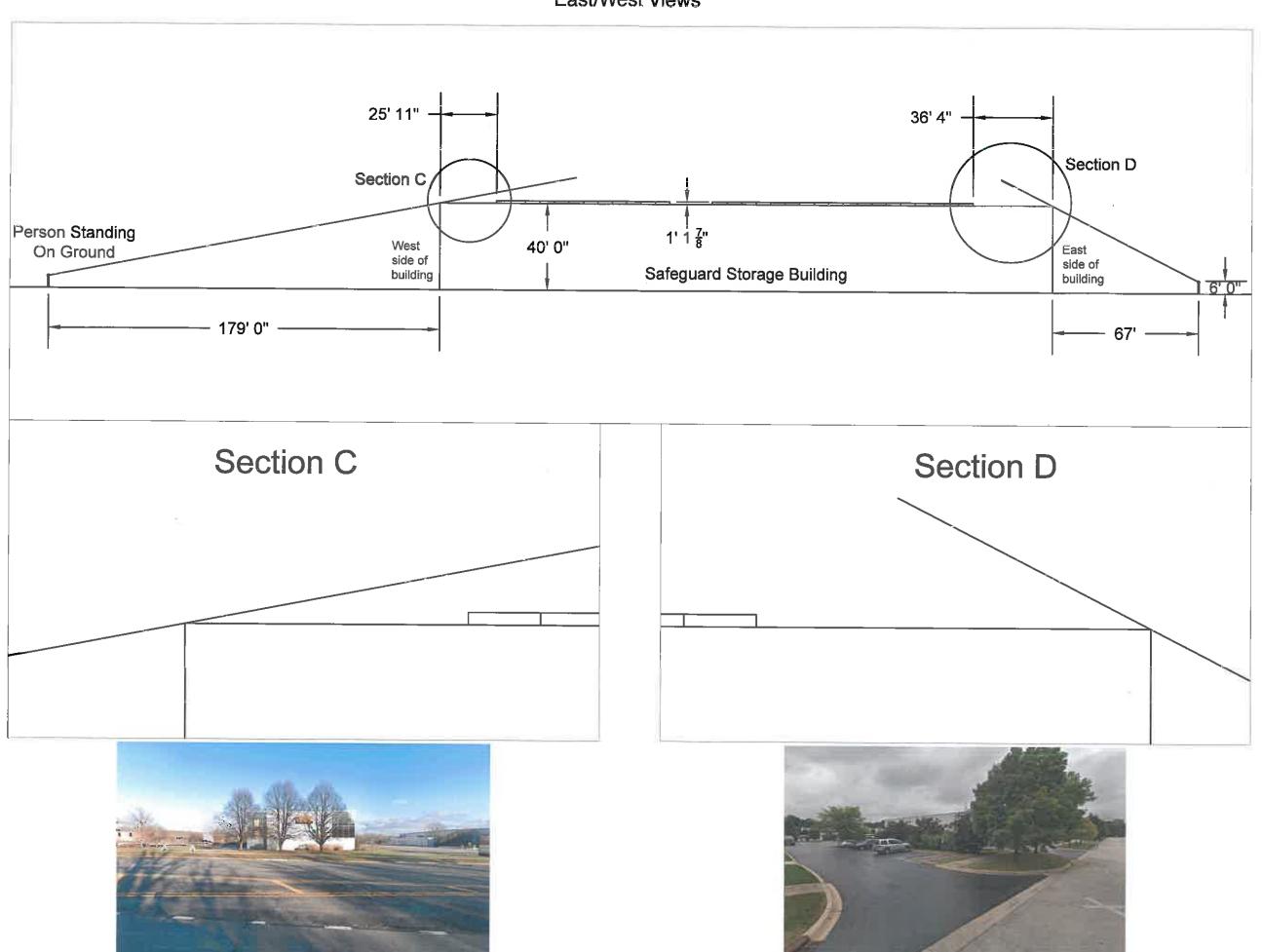




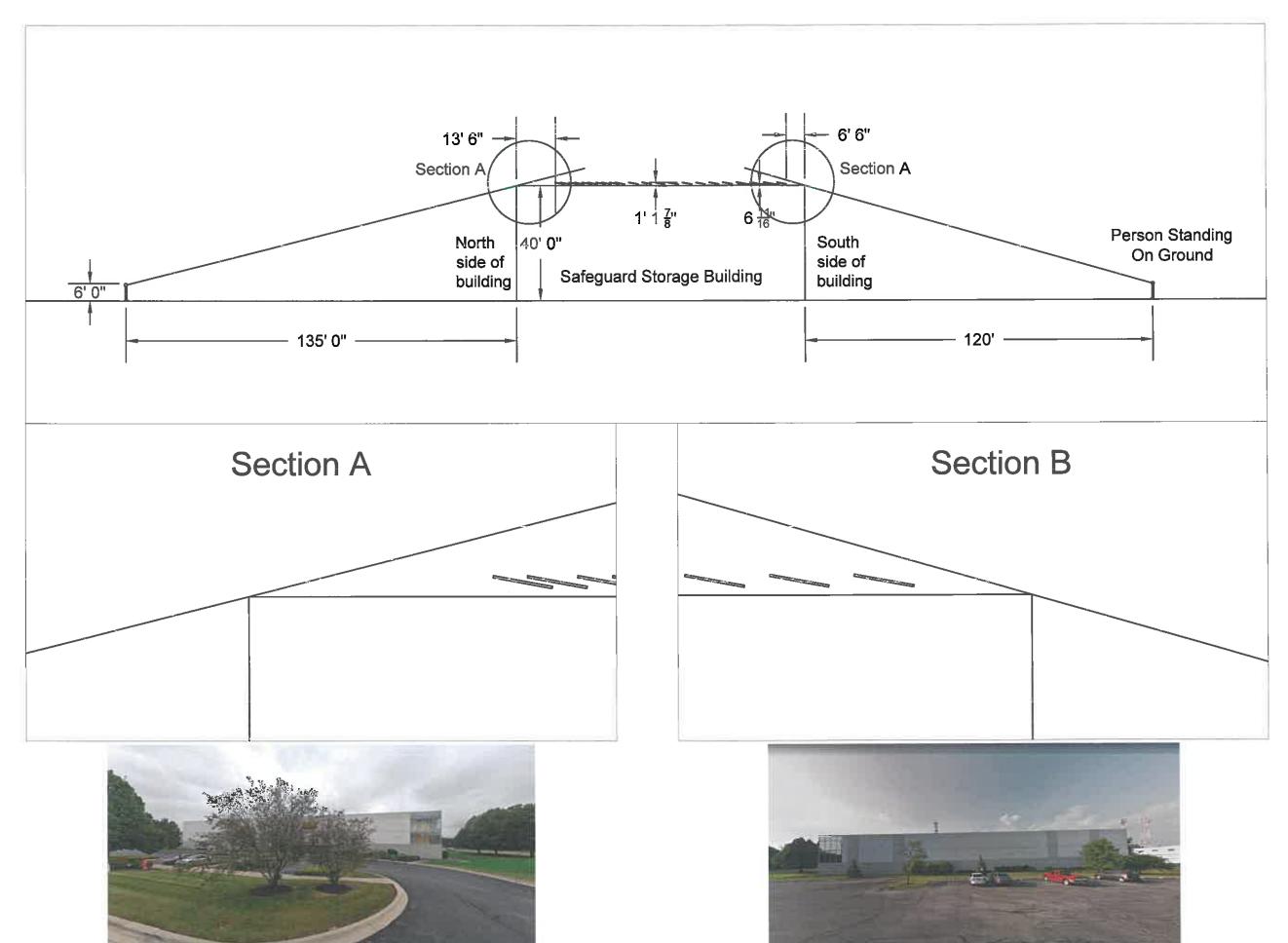


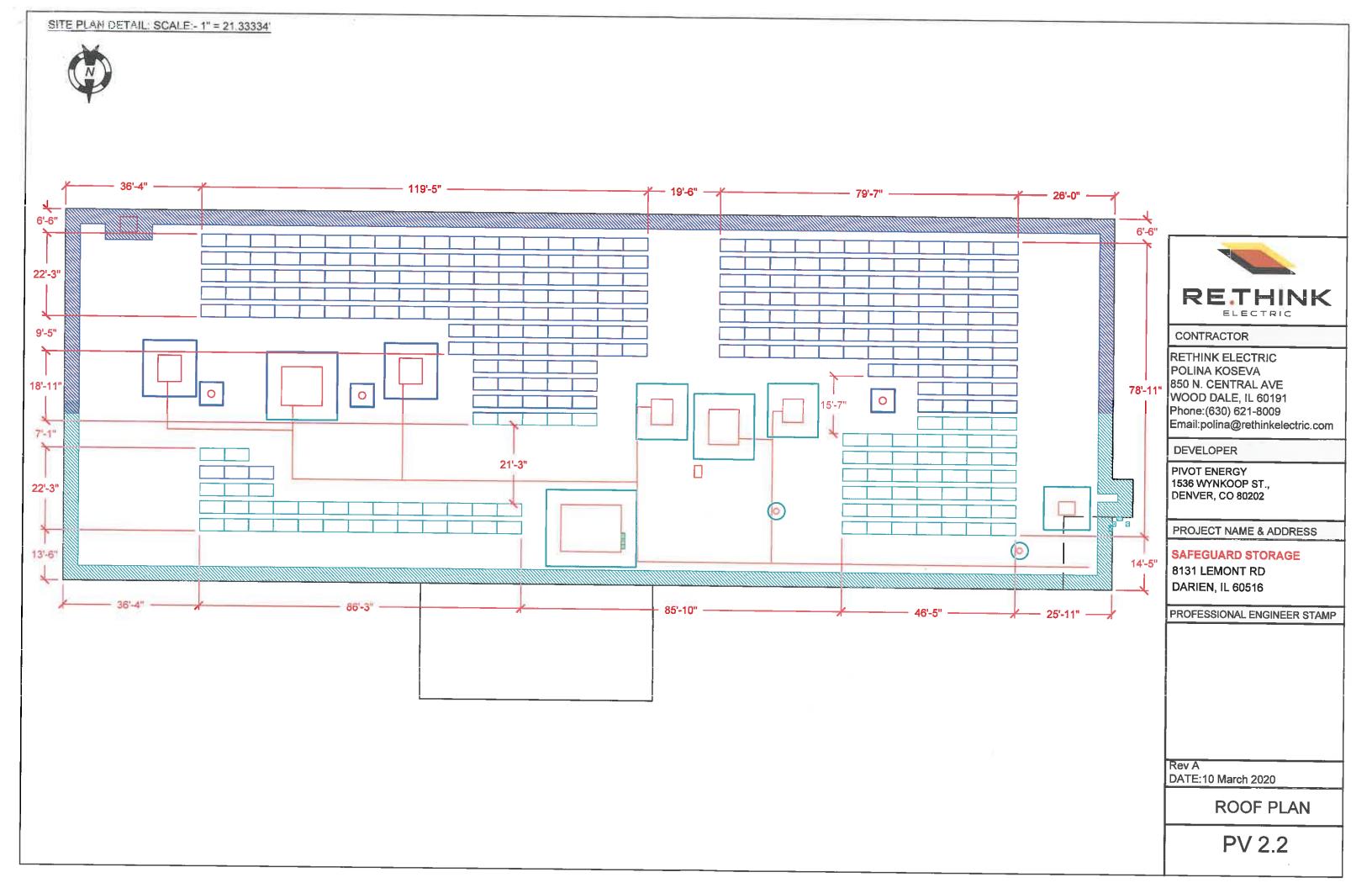


East/West Views



North/SouthViews





Dimension on North Side of Building



Dimension on South Side of Building



Dimension on East Side of Building







View from North Side of Building



View from South Side of Building



View from East Side of Building



View from West Side of Building





CITY OF DARIEN ZONING VARIATIONS JUSTIFICATION NARRATIVE

Purpose

To be consistent and fair, the City is obligated to make decisions on zoning variation requests based on findings-of-fact. The Applicant should write a justification narrative that contains evidence (facts) that support a conclusion (finding) that the variation is necessary and would not cause problems. It should include: a) explanation of why the variation is being requested, b) describe the 'hardship condition' of the property that makes it difficult to conform, c) estimate the impact on neighbors, and d) respond to each of the decision criteria below.

Decision	on Criteria	(See City Code	e Section 5A-2	-2-3)	
20	The prope	ety in augetion	commet violal o	reseasable se	der some 145

- 2a. The property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in the zone.
- 2b. The plight of the owner is due to unique circumstances.
- 2c. The variation if granted will not alter the essential character of the locality.
- 3a. Essential Need? The owner would suffer substantial difficulty or hardship and not mere inconvenience or a decrease in financial gain if the variation is not granted.
- 3b. Problem with Property? There is a feature of the property such as slope or shape or change made to the property, which does not exist on neighboring properties, which makes it unreasonable for the owner to make the proposed improvement in compliance with the Zoning Code. Such feature or change was not made by the current owner and was not known to the current buyer at the time of purchase.
- 3c. Smallest Solution? There is no suitable or reasonable way to redesign the proposed improvements without incurring substantial difficulty or hardship or reduce the amount of variation required to make such improvements.
- 3d. Create Neighbor Problem? The variation, if granted, will not cause a substantial difficulty, undue hardship, unreasonable burden, or loss of value to the neighboring properties.
- 3e. Create Community Problem? The variation, if granted, may result in the same or similar requests from other property owners within the community, but will not cause an unreasonable burden or undesirable result within the community.
- 3f. Net Benefit? The positive impacts to the community outweigh the negative impacts.
- 3g. Sacrifice Basic Protections? The variation, if granted, will comply with the purposes and intent of the Zoning Code set forth in Section 5A-1-2(A) and summarized as follows; to lessen congestion, to avoid overcrowding, to prevent blight, to facilitate public services, to conserve land values, to protect from incompatible uses, to avoid nuisances, to enhance aesthetic values, to ensure an adequate supply of light and air, and to protect public health, safety, and welfare.