

AGENDA Village of Chenequa Monday, May 13, 2024 31275 W County Road K, Chenequa, WI 53029

This is official notice that the regular monthly meeting of the Village Board of Trustees for the Village of Chenequa will be held immediately following the Plan Commission meeting, on Monday, May 13, 2024, in the Village Board Room and via Zoom Communications. The following matters will be discussed, with possible actions:

Call to Order Pledge of Allegiance

- 1. Public comment period: Public comments on any subject without any action, except possible referral to a governmental body or staff member.
- 2. Approval of minutes from the Village Board meeting on April 8, 2024.
- 3. Approval of Invoices.
- 4. Review and consider action on proposed landscape plan and outdoor lighting plan at 5525 N State Road 83, Michael and Aoy Mitchell. (Tax Key No. 418-995-002).
- 5. Review and consider action on proposed sauna accessory structure at 6067 N State Road 83, Kathryn Quadracci Flores. (Tax Key No. 398-988).
- 6. Review and consider action on proposed solar panel installation at 6321 N Oakland Hills Road, Denise Spusta. (Tax Key No. 402-987).
- 7. Review and consider action on shoreland zoning violation at 4667 N Pine Meadows Lane, Michael Kelly. (Tax Key No. 734-991-001).
- 8. Update on Pier Regulation Ordinance.
- 9. Review and consider action on Establishment of Railroad Quiet Zone.
- 10. Appreciation of Service Trustee Robert Bellin.
- 11. Report Forester.
- 12. Report Captain.
- 13. Report Village Administrator.
- 14. Report Village President.
- 15. Report Village Attorney.
- 16. Agenda items to be considered for future meetings.

17. Adjournment.

Respectfully submitted by: Deanna Braunschweig Village Clerk – Treasurer

To participate via Zoom:

 $\underline{https://us02web.zoom.us/j/87928191689?pwd=Rk5YcU9mbG9YZEptS2Y5NEppVGJvZz09}$

Meeting ID is 879 2819 1689 and the Passcode is 769219

Or Dial: 305 224 1968 US

Request from persons with disabilities who need assistance to participate in this meeting or hearing should be made to the Village Administrator with as much advance notice as possible. It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information. No action will be taken by any other governmental body except by the governing body noticed above.

NOTICE OF POSTING TO VILLAGE HALL BULLETIN & WEBSITE Village Clerk posted this agenda on Thursday, May 9, 2024, by 4:30 PM

VILLAGE BOARD MINUTES VILLAGE OF CHENEQUA

VILLAGE OF CHENEQUA - VILLAGE BOARD MINUTES OF MONDAY, April 8, 2024 Unofficial until approved by the Village Board.

Approved as written () or with corrections () on _____.

A meeting of the Village Board of Trustees was held on Monday, April 8, at 6:43 p.m. utilizing Zoom Communications. The following members were in attendance:

Ms. Villavicencio / Village President - present

Ms. Manegold / Trustee - present

Mr. Pranke / Trustee – present

Mr. Bellin / Trustee - present

Mr. Grunke / Trustee - present

Ms. von Hagke / Trustee – present

Mr. Kubick / Trustee - present

Mr. Luljak / Village Attorney Representative – absent

Ms. Miller / Village Attorney Representative – present

Mr. Gartner/ Village Attorney Representative - absent

Mr. Lincoln / Zoning Administrator-Forester - present

Mr. Neumer / Administrator-Police Chief – absent

Mr. Carney / Police Captain – present

Ms. Braunschweig / Village Clerk – present

Call to Order

Pledge of Allegiance

Public in Attendance

Ted Rolfs, Rob Manegold, Alan Enters, Deborah McNear, George Rolfs, JoJo Gehl Neumann, Judy Hansen, Julie Petri, Keith Everson, Mark Petri, Richard Kriva, Roger Behling, Stephanie Benz, Timothy Fredman, Tim Shaw, Carrie Gindt

Public Comment

President Villavicencio read a prepared statement allowing for public comments of two minutes or less.

Roger Behling of the Chenequa Country Club, Chair of Raquetball Club, spoke in favor of pickle ball and pickle ball courts during Plan Commission. Comments at the Plan Commission: Chenequa Country Club are marking tennis courts as pickle ball courts. Looking at dedicated pickle ball courts. Chenequa Country Club is looking to the West of the tennis ball courts to the accommodate the courts. The are dying ash trees to be removed. The setback right of way would not be met and would like to discuss for the future.

Ted Rolfs commented on the budget and questioned why there were more revenues. He spoke in favor of the pier ordinance and in favor of passage of the pier ordinance.

Approval of minutes from the Village Board meeting on March 11, 2024.

Motion (Kubick/Manegold) to approve the minutes from the Village Board meeting of March 11, 2024, as presented. *Motion carried*.

<u>Presentation of 2023 Financial Statements by Carrie Gindt of Reilly, Penner & Benton LLP</u> Carrie Gindt of Reilly, Penner & Benton LLP, summarized the 2023 audit.

She commented on the increase General Fund had an increase of revenues of \$149,000; and the boat launch had a decrease of \$22,000. The debt service and capital projects had no change for the year.

In comparison to budget, the revenues received 117% of what was budgeted. Most of the overage of revenues was due to the increase in investment income and unbudgeted workman's comp receipts. The Police was over due to payout of sick and vacation.

The auditors had an unmodified opinion.

The increase in investment income for 2023 was \$104,000.

Review and consider Acknowledging Receipt and Approving the Audit Conducted by Reilly, Penner & Benton LLP; *Resolution 2024-04-08-01*.

Motion (Manegold/Grunke) to approve the Audit Conducted by Reilly, Penner & Benton LLP; Resolution 2024-04-08-01. Motion carried.

Review and consider Resolution Amending the 2023 Adopted Budget; *Resolution 2024-04-08-02*.

Motion (Kubick/Grunke) to approve Resolution Amending the 2023 Adopted Budget; Resolution 2024-04-08-02. Motion carried.

Approval of Invoices

Motion (Bellin/Manegold) to approve the invoices, as presented. Motion carried.

Review and consider action on proposed landscape plan at 4809 Pine Meadows Lane, Rick and Sally Kriva. (Tax Key No. 0734-997).

The proposal was discussed and recommended by the Plan Commission.

Motion (Manegold/Bellin) to approve the proposed landscape plan at 4809 Pine Meadows Lane, Rick and Sally Kriva. (Tax Key No. 0734-997). Motion carried.

Review and consider action on application for the installation of a shed at W330N6163 Hasslinger Dr., Nashotah, Mark and Mary Olson; CHQV 0405931001 (Tax Key No. MRTT 0405-026, Town of Merton, Extraterritorial Jurisdiction).

The proposal was discussed and recommended by the Plan Commission.

This property is in Chenequa, parcel number CHQV 0405931001; not MRTT 0405 026 and should not be listed as extraterritorial.

A deed restriction has been drafted to bind the lands in Chenequa (0405 931 001) and Merton (0405 026), east of Hasslinger Drive with the land to the west of Hasslinger drive where the primary residence is located.

A permit would not be issued until the Deed Restriction is approved and recorded with Waukesha County. This is a legal document stating that these are deeded together but acting as one with the Town of Merton parcel.

Attorney Miller explained the deed restrictions and that the two parcels are considered together; Chenequa is not losing any land. Attorney advised that the word extraterritorial could be stricken, and include the Chenequa tax number.

Motion (Grunke/Pranke) to approve the installation of a shed at W330N6163 Hasslinger Dr., Nashotah, Mark and Mary Olson; CHQV 0405931001, MRTT 0405-026 and include the signed, recorded deed restriction along with the proposal. *Motion carried*.

Review and consider action on Accessory Structure Advisory Committee Appointments.

President Villavicencio nominated Trustee von Hagke; Plan Commission Member, Matt Carroll; Pine Lake Representative, Judy Hansen; Beaver Lake Representative, John Nagy, North Lake Representative, pending at time of meeting; and Off Lake Representative, JP Mesching. And Chris McClain.

Motion (Manegold/Kubick) to appoint to the Accessory Structure Advisory Committee, Trustee von Hagke; Plan Commission Member, Matt Carroll; Pine Lake Representative, Judy Hansen; Beaver Lake Representative, John Nagy, North Lake Representative, pending at time of meeting; and Off Lake JP Mesching, and Chris MaClain. Motion carried.

Review and consider action on Resolution 2023-04-08-03, Schedule of Fees, Knox Box Fee Increase.

Motion (Bellin/Grunke) to approve Resolution 2023-04-08-03, Schedule of Fees, Knox Box Fee Increase. Motion carried.

Review and consider action on Establishment of Railroad Quiet Zone. Postpone to May.

Review and consider action on Pier Regulation Proposal.

Deborah McNear reviewed the Plan Commission discussion. The Plan Commission did not recommend to the Village Board. There was an email from Mark Petri of questions to the Village Board and Deborah McNear responded to the email. The ordinance would also need sixty days for DNR approval.

With the ordinance the Village would have a system of enforceability and eyes for new piers. A twelve foot off set was added from the property line to assist with riparian rights. This would allow for twenty-four feet between two piers, and would allow for a twenty-four foot lifts. Slips were defined as bounded by three sides. The number of lifts are not limited. This is a boating and sailing community.

Discussion ensued of grandfathering of the current piers. Not many piers with more than 100 feet. If a pier is replaced it may have to be downsized. Discussion ensued as to if the Village wants to regulate length or size. Repairs as defined to not need a permit.

Discussion ensued as to how many slip restrictions are being violated and how many have a platform that is larger than 200 square feet. Discussion ensued that these would be grandfathered at the time of the ordinance; if replaced may need to be replaced smaller in size or request a variance.

Discussion ensued to have the ordinance presented to the Village residents. Discussion ensued of those with long piers have shallow water. Discussion ensued of not allowing second floor piers.

Discussion of consensus for the attorney to look into and review with Deborah McNear and bring back to the board as an ordinance. Discussion ensued to have an idea of how many are out of compliance if rebuilding.

Discussion ensued to allow 80 foot as the maximum size, and to address slips, no double decker piers, deck size, and that variance is available.

Motion (von Hagke/Pranke), for the Village Attorney to draft an ordinance for May, from the proposal as presented. *Motion carried*.

<u>Approval of Arbor Day Proclamation – April 26, 2024.</u>

<u>Motion (Manegold/Grunke) to approve Arbor Day Proclamation – April 26, 2024.</u> *Motion carried.*

<u>Approval of Resolution Recognizing International Migratory Bird Day, Saturday, May 11, 2024.</u>

Motion (Bellin/von Hagke) to approve Resolution Recognizing International Migratory Bird Day, Saturday, May 11, 2024. Motion carried.

Consider appointments to the Public Safety Committee, Operations Committee, Board of Review, Plan Commission, Police Commission, Open Space Committee, Hwy 83 Task
Force, Personnel Committee, Board of Appeals, Lake Country Fire & Rescue Commission, Lake Management Committee.

President Villavicencio announced committees continuing with current members are Public Safety, Operations, Police Commission, Open Space, Hwy 83 Task Force.

President Villavicencio announced appointments as follows:

Board of Review Thomas Grieve; Plan Commission is Rick Kriva; Personnel Committee: Dixon Benz Jr.; Board of Appeals, Carol Manegold; Fire and Rescue Commission, Tom Marshall;

Lake Management, Judy Hansen, Fritz Seidel, and Deborah McNear and also, Andrew Gehl, Jo Ann Villavicencio, and Carol Managold.

Motion (Kubick/Grunke) to approve the appointments, Board of Review Thomas Grieve; Plan Commission is Rick Kriva; Personnel Committee: Dixon Benz Jr.; Board of Appeals, Carol Manegold; Fire and Rescue Commission, Tom Marshall; Lake Management, Judy

Hansen, Fritz Seidel, and Deborah McNear and also, Andrew Gehl, Jo Ann Villavicencio, and Carol Managold. *Motion carried*.

Discussion of Meeting Packets, paper versus electronic.

The Village President commented to use the electronic device rather than having printed cop	pies.
Consensus was to use electronic devices rather than paper if meeting in person.	

Report – Village Forester – On April 11th, the USDA will proceed with goose egg oiling.

Report – Village Captain – Captain Carney reported that North Lake is under a slow no wake rule. The water is 3 inches over. This will be re-evaluated next week.

Report – Village President. – Attorney Brittany Miller will be leaving us and moving to the East Coast.

Report – Village Attorney – No Report.

Future Agenda items to be considered:

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Motion (Pranke/Grunke) adjourn the Villag	ge Board meeting at 7:35 p.m. Motion carried.
Respectfully submitted by:	Approved and Ordered Posted by:
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Deanna Braunschweig	Jo Ann F. Villavicencio
Village Clerk - Treasurer	Village President



Date: May 6th, 2024 **Meeting Date & Time:** Monday, May 13th at 6:00 P.M.

To: Plan Commission, Village of Chenequa

From: Planning Department

Subject: Site Plan Review

Landscaper: Land Works

Owner: Michael and Aoy Mitchell

Location: 5525 N State Road 83

Project Description: Proposed Landscape Plan and Lighting Plan

Zoning District: Residence District - Lot Abutting a Lake

COMMENTS:

Proposed Landscaping

- 1. Landworks has recently submitted a landscape and lighting plan on behalf of the Mitchell family.
- 2. A complete landscape and grading plan with a photo book of sample materials and proposed plantings is provided in the Plan Commission and Village Board packet.
- 3. All proposed landscaping and landscape lighting is currently beyond the 75' setback from the OHWM of Pine Lake.
- 4. Landscaping includes;
 - One at grade patio on the lakeside of dwelling
 - o This patio is entirely outside the 75' shoreland buffer setback.
 - o The patio is proposed to be constructed from "pattern bluestone"
 - Various pathways
 - o Around the perimeter of the home there are various proposed paths and stepping stones.
 - These paths are proposed to be constructed of irregular bluestone with a granite cobble border
 - o The stepping stones will be constructed of irregular bluestone.

- Tree Wells
 - o There are three retaining wall/tree wells proposed around the house.
 - O These tree wells are proposed to be constructed of blue granite boulders
 - o All walls are outside of the 75' setback on plan
 - o Location can be found on the provided landscape plan
- Spa feature
 - On the north side of the residence the applicant is proposing a spa feature as shown on plans.
 - o The spa feature is proposed to be constructed of stainless steel
 - o The spa feature is proposed to be 7.5'X7.5'
 - o This spa feature is not within the 75' setback of Pine Lake and is greater than 100' from the nearest property boundary.
- 5. The landscape plan also proposes 17 fully shielded pathway lights around the property.
 - a. A spec sheet for the proposed landscape light is provided in the packet
 - b. The proposed lumen output per fixture is 35
 - c. The color temperature of these fixtures is 2,700K

c: Dan Neumer, Administrator
Deanna Braunschweig, Clerk
Paul Launer, Lake Country Inspections
Micheal and Aoy Mitchell, Owner
Cody Lincoln, Zoning Administrator

Becker Blue Granite Boulders - Retaining Walls



House Veneer Stone - Split Face Field Stone



Irregular Bluestone Stone Patio with Granite Cobble Border



Irregular Bluestone Steppers Through Turf



Pattern Bluestone Stone Patio and Steps





Photos Depict Planting Design Intent - Final Selections TBD











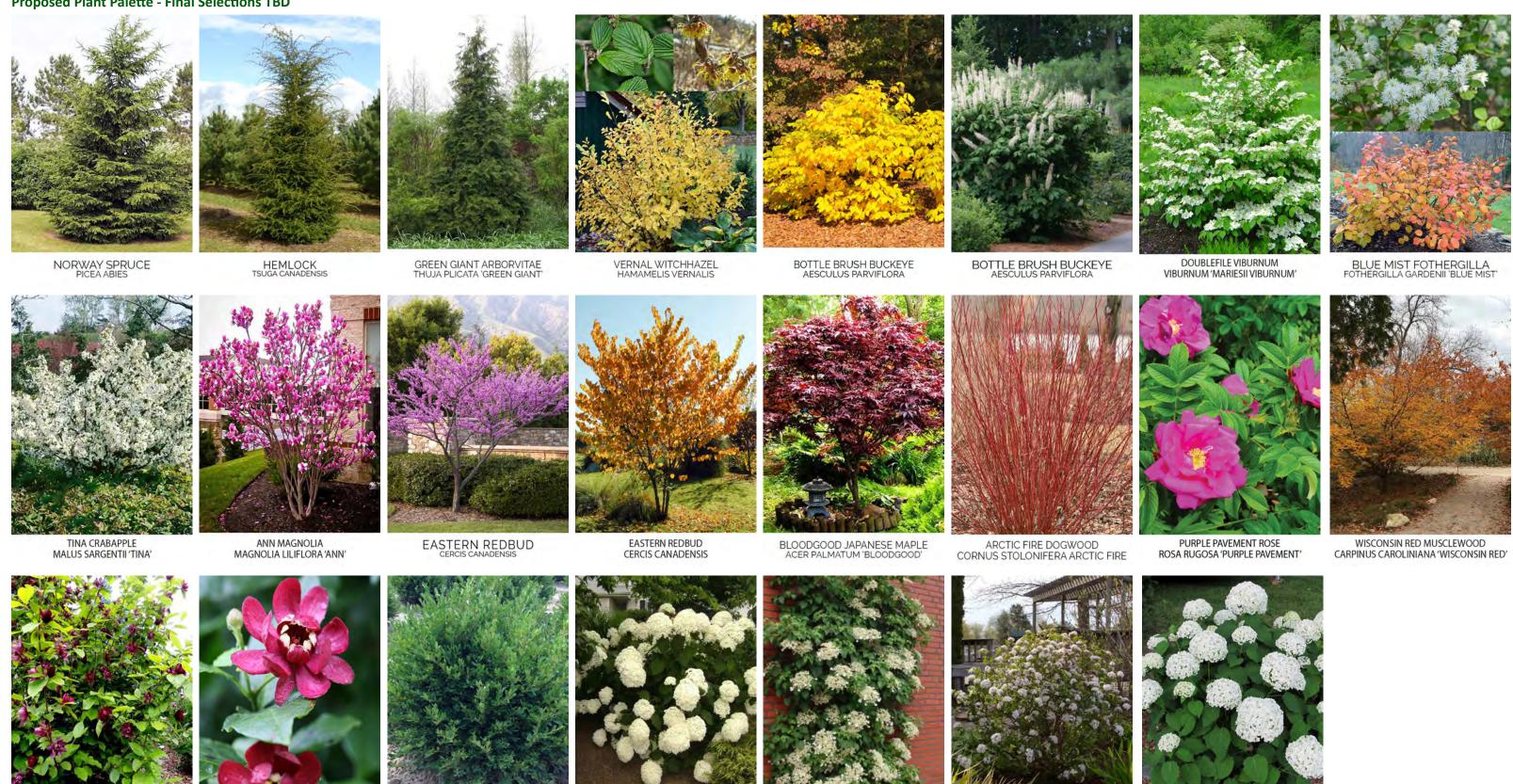


Proposed Plant Palette - Final Selections TBD

CAROLINA SWEET SHRUB CALYCANTHUS 'APROHRODITE'

CAROLINA SWEET SHRUB CALYCANTHUS 'APROHRODITE'

GREEN GEM BOXWOOD BUXUS X'GREEN GEM'



INCREDIBALL HYDRANGEA HYDRANGEA ARBORESCENS 'INCREDIBALL' CLIMBING HYDRANGEA HYDRANGEA ANOMALA PETIOLARIS

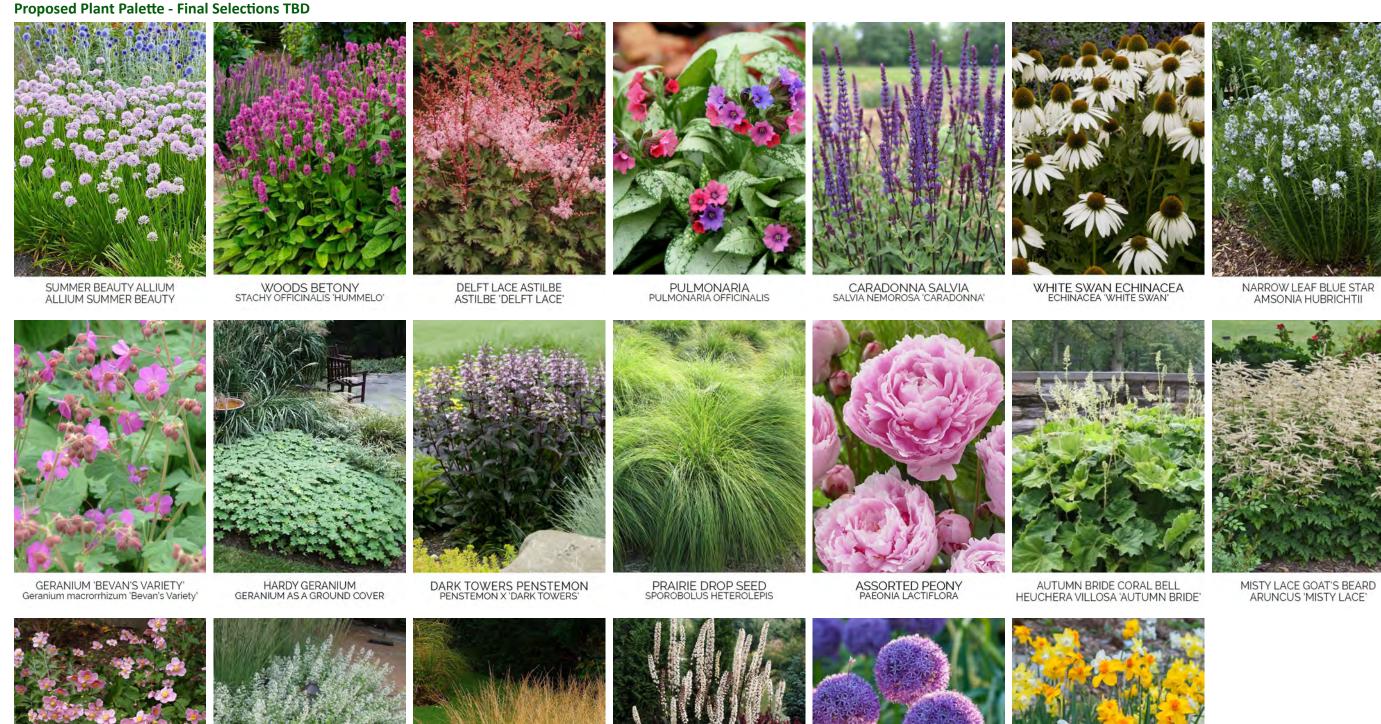
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BRUNETTE SNAKEROOT ACTAEA SIMPLEX 'BRUNETTE'

GLOBEMASTER ALLIUM ALLIUM 'GLOBEMASTER'

EVAN SCENT DAFFODIL DAFFODIL 'EVAN SCENT'

MOOR GRASS MOLINIA CAERULEA





OVERVIEW

MODELS

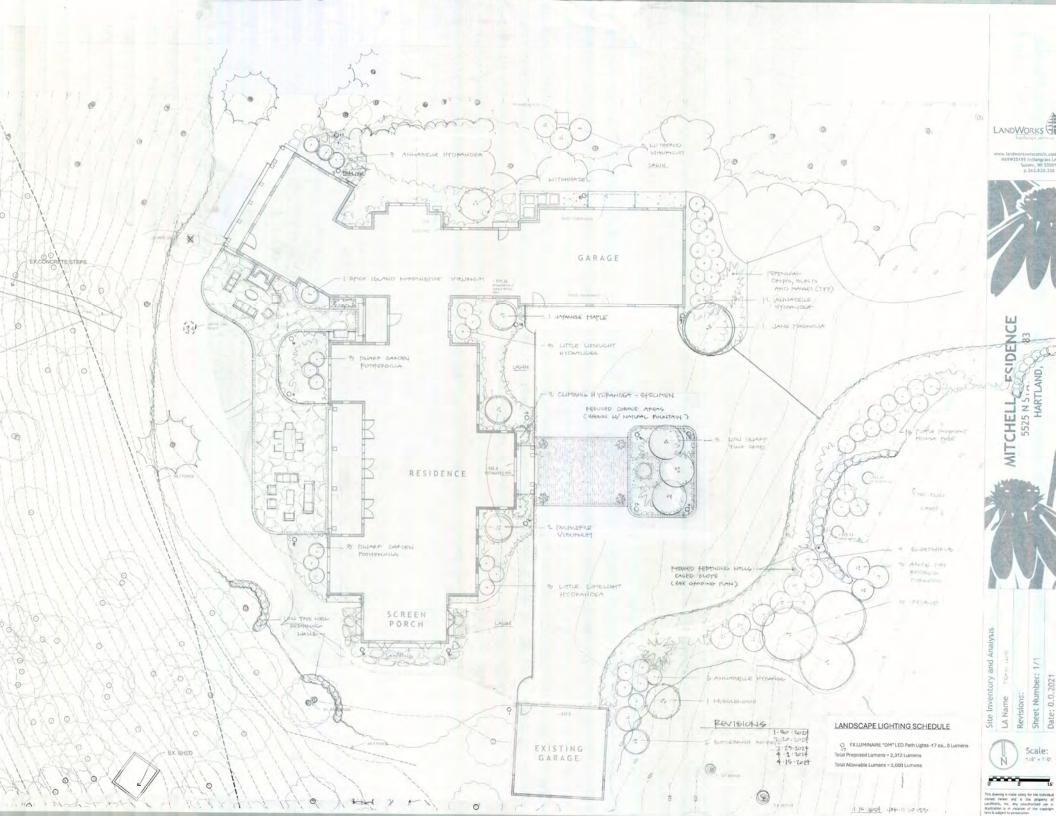
SPECS

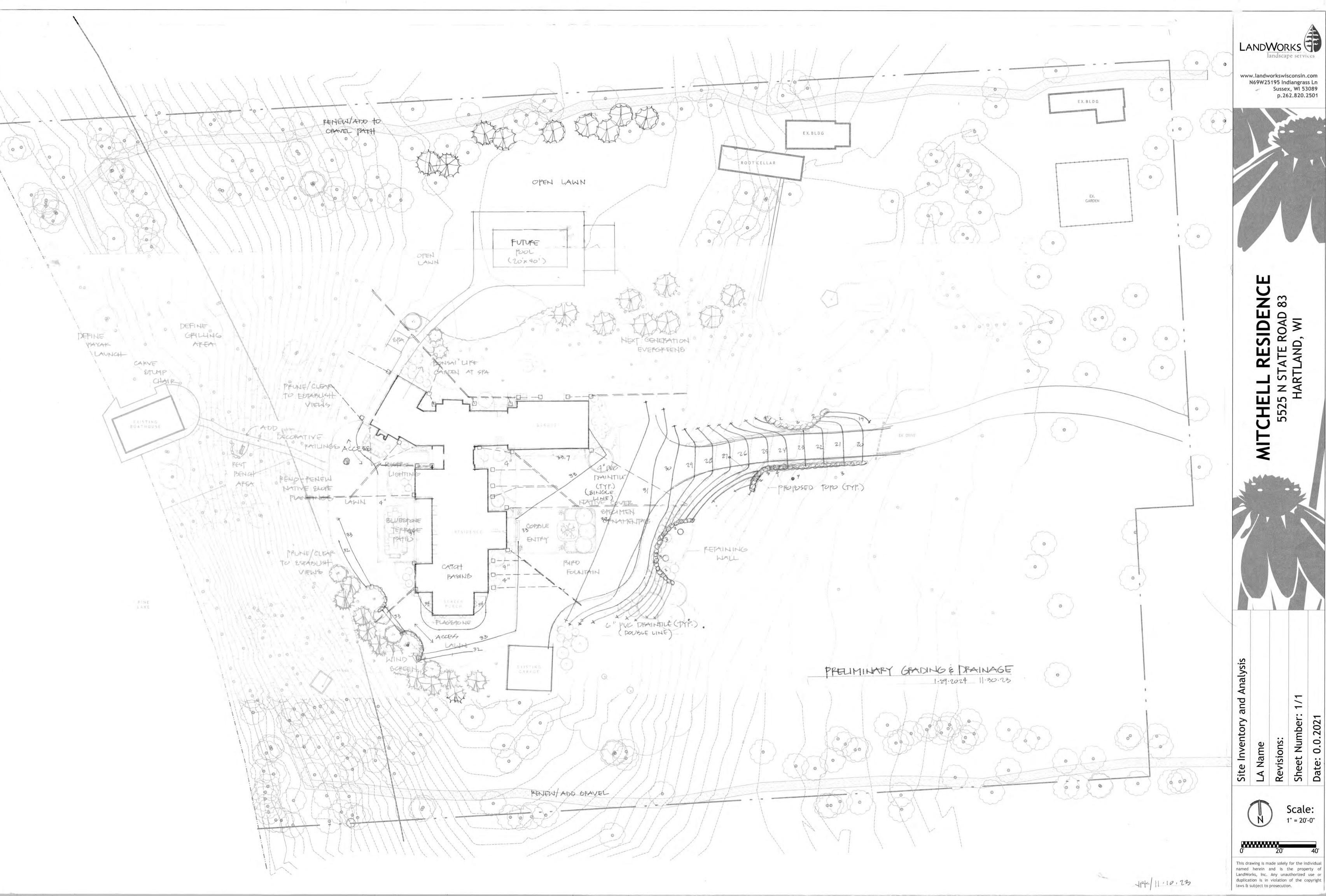


FX DM Pathlight

DM Spec Chart

Output	1LED
Total Lumens†	35
Input Voltage	10 to 15V
Input Power (W)	2.0

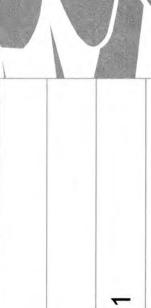




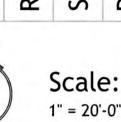
www.landworkswisconsin.com N69W25195 Indiangrass Ln Sussex, WI 53089 p.262.820.2501

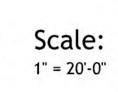


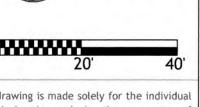




Sheet Number: 1 Date: 0.0.2021









Date: May 6th, 2024 **Meeting Date & Time:** Monday, May 13th 6:00 p.m.

To: Plan Commission, Village of Chenequa

From: Planning Department

Subject: Site Plan Review

Architect: Vetter Architect

Owner: Kathryn Quadracci-Flores

Property Address: 6067 N State Road 83

Project Description: Proposed Sauna Structure

Zoning District: Residence District- Lot Abutting Lake

Lot Restrictions:	REQUII RES. DI		PROPOSED PROJECT		
LOT AREA:	2	acres	2.89	Acres	
LOT WIDTH: AVERAGE	150	L.F. min.	215	L.F.	

ACCESSORY STRUCT					
YARD SETBACKS: Road (East)		75	ft. min.	400+	ft.
	Side (North)	10	ft. min.	67	ft.
	Side (South)	15	ft. min.	39.5	ft.
	Lake (West)	75	ft. min.	140+	ft.
BUILDING HEIGHT:		35	ft. max	7.3	ft.

COMMENTS:

- 1. The applicant proposes to place a 6-person modular sauna structure on the lakeside of the primary dwelling.
- 2. The footprint of the sauna structure is approximately 45 square feet
- 3. The structure's exterior sheathing is constructed of wood-tone materials. The lakeside elevation is mostly glass.
- 4. "As seen from the lake" color renderings are provided in your packets
- 5. Proposed location has been shown on the site plan in the packets.
- 6. This structure meets the requirements of 6.5(4)(a)(i) because it is greater than 75' from the OHWM.
- 7. The proposed detached accessory structure is over one hundred (100) feet to any existing single-family structure on an adjoining lot which complies with section Sec. 6.5(c)(i).

- 8. A building permit is required from the Building Inspector prior to start of construction.
- c: Dan Neumer, Administrator Deanna Braunschweig, Clerk Paul Launer, Lake Country Inspections Katherine Quadracci-Flores, Owner

QUADRACCI - FLORES

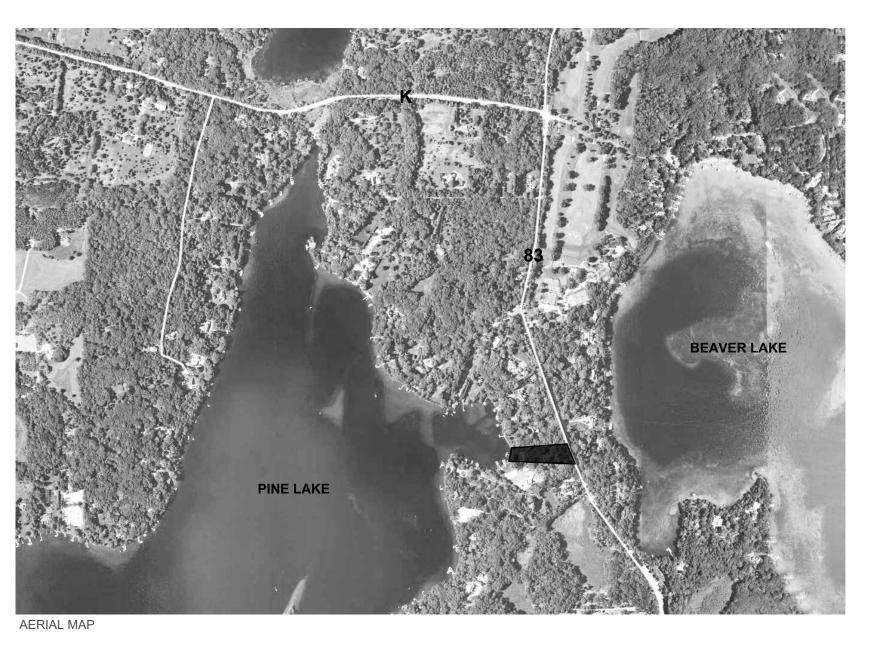
MODULAR SAUNA ADDITION

6067 STATE ROAD 83, VILLAGE OF CHENEQUA, WI 53029









PROJECT INFORMATION

QUADRACCI - FLORES: MODULAR SAUNA ADDITION 6067 STATE ROAD 83 VILLAGE OF CHENEQUA, WI 53029

DESCRIPTION: ADDITION OF A MODULAR SAUNA TO THE LANDSCAPE.

PARCEL SIZE: 2.8928 ACRES / 126,010sf

BUILDING CODE: WISCONSIN UDC /

VILLAGE OF CHENEQUA

TOTAL SAUNA AREA: 46.3sf

PROJECT TEAM

OWNER:

QUADRACCI FLORES 6067 N. HWY 83 CHENEQUA, WI 53029

SURVEYOR:

414.257.2212

SURVEYING ASSOCIATES INC 2554 N 100th St, WAUWATOSA, WI 53226

ARCHITECT: **VETTER ARCHITECTS** 161 S. FIRST STREET, STE 110 MILWAUKEE, WI 53204 414.223.3388

GENERAL CONTRACTOR:

TRUE INC. Mike Morrison 262.443.4713

SHEET INDEX

A0.0 COVER SHEET A0.1 EXISTING CONDITION PHOTOS

A0.2 PROPOSED MATERIAL SELECTIONS A0.3 PROPOSED DESIGN RENDERINGS

SURVEY

A1.0 SITE PLAN L1.0 LANDSCAPE PLAN QUADRACCI-FLORES MODULAR SAUNA ADDITION

vetter.

6067 STATE ROAD 83 VILLAGE OF CHENEQUA, WI

ISSUE PLAN REVIEW 04.15.24

APRIL 15, 2024

COVER SHEET



CONSTRUCTION PHOTO LOOKING SOUTHEAST - 03.13.24



CONSTRUCTION PHOTO LOOKING SOUTHEAST - 03.13.24



EXISTING CONDITION PHOTO LOOKING SOUTHEAST - 08.07.23



EXISTING CONDITION PHOTO LOOKING EAST - 11.09.22

QUADRACCI-FLORES MODULAR SAUNA ADDITION

6067 STATE ROAD 83 VILLAGE OF CHENEQUA, WI

PLAN REVIEW 04.15.24

APRIL 15, 2024

EXISTING CONDITION PHOTOS A0.1

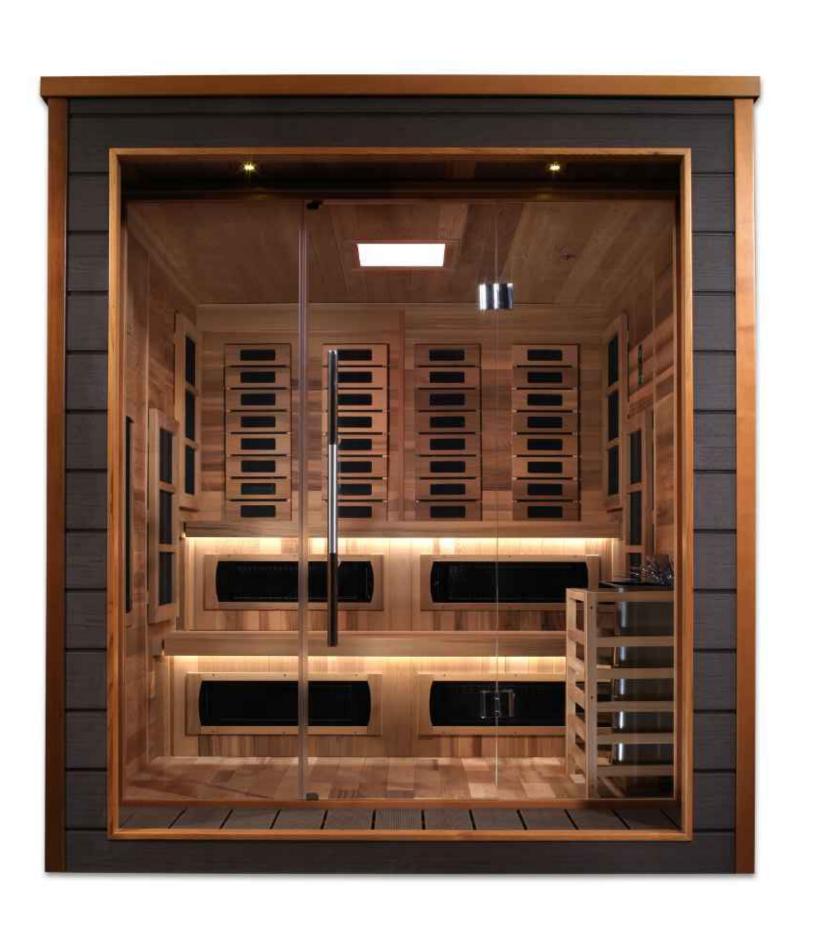


MODULAR SAUNA SPECIFICATIONS

GOLDEN DESIGNS KARLSTAD 6 PERSON OUTDOOR - INDOOR PURETECH HYBRID FULL SPECTRUM SAUNA

Capacity	6 person
Use	Outdoor Indoor
Exterior and Interior	All Weather Exterior with all Natural Canadian Red Cedar Interior
Lighting System	Interior Chromotherapy lighting system (Oversize)
Backrest Lighting	Interior backrest with accent white lighting system
Door	Clear Tempered glass door
Accessories	Sandglass, thermometer, bucket, and scoop
Temperature Range	Full Spectrum IR: Total 6 IR Emitters. 2 Carbon PureTech ^{IM} Near Zero EMF Heating Panels and 4 Near Infrared Heating Elements
Stove	Harvia "WALL" Stove 8KW Traditional Sauna Stove with Built in Controls
Electrical Service	40AMP / 240V (Please consult a certified electrician.)
Assembled Dimensions Exterior (W x D x H)	79.2" x 84.3" x 88.3"
Assembled Dimensions Interior (W x D x H)	'75 × 67.2' × 75







QUADRACCI-FLORES MODULAR SAUNA ADDITION

6067 STATE ROAD 83 VILLAGE OF CHENEQUA, WI

ISSUE DA
PLAN REVIEW 04.1

APRIL 15, 2024

SAUNA SPECIFICATION A0.2



PROPOSED DESIGN RENDERING LOOKING SOUTHWEST



PROPOSED DESIGN RENDERING LOOKING SOUTH



PROPOSED DESIGN RENDERING LOOKING SOUTHEAST



PROPOSED DESIGN RENDERING LOOKING EAST

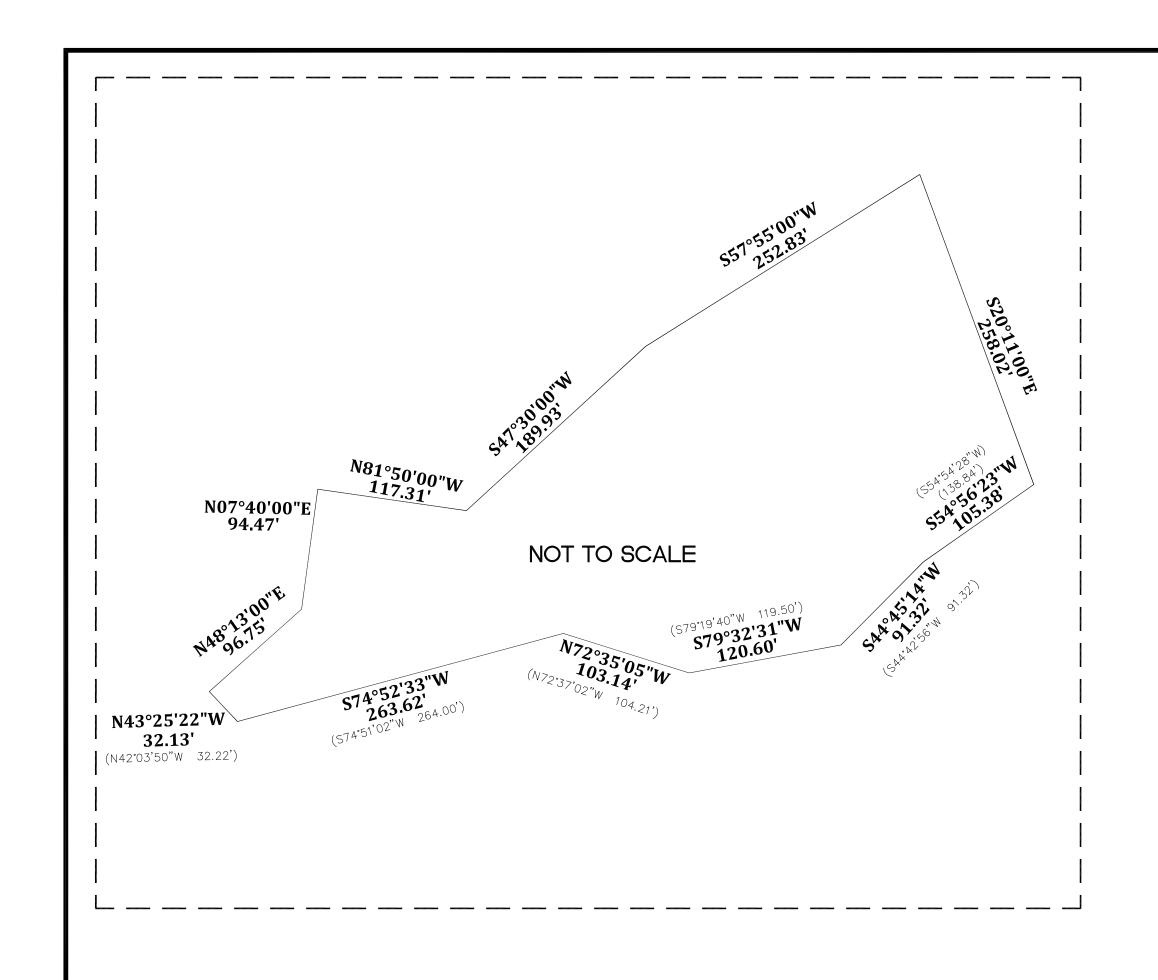
QUADRACCI-FLORES MODULAR SAUNA ADDITION

6067 STATE ROAD 83 VILLAGE OF CHENEQUA, WI

ISSUE DATE
PLAN REVIEW 04.15.24

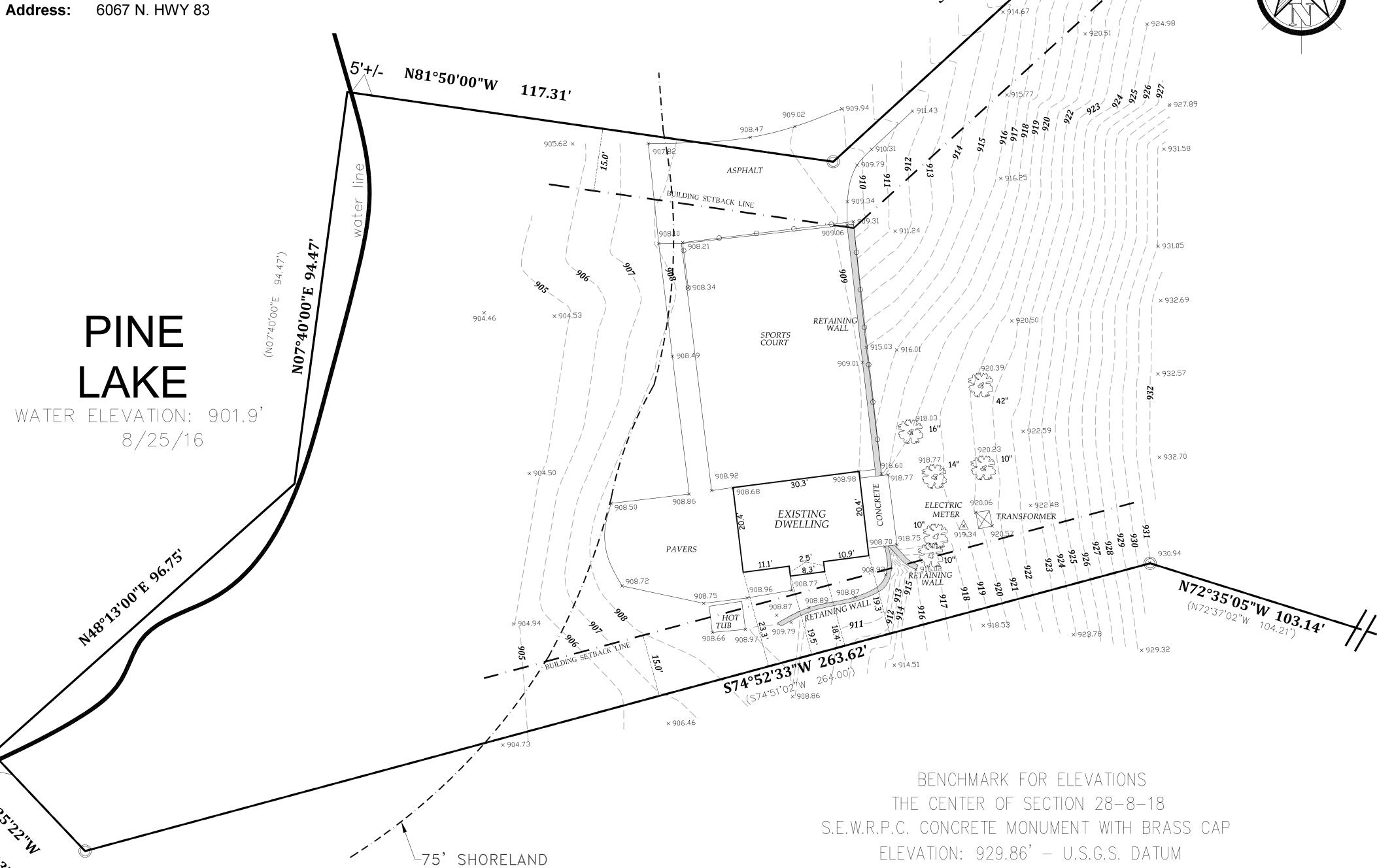
APRIL 15, 2024

PROPOSED DESIGN RENDERINGS A0.3



PLAT OF SURVEY

Lot 1 Certified Survey Map recorded as Document No. 60134, excepting there from all that part of said Lot 1 conveyed to John F. Probst and Marie I Probst, his wife in deed recorded as Document No. 873682; but also including that part of Lot 2 of said Certified Survey Map as described in the Deed to Harry V. Quadracci and Elizabeth E. Quadracci, his wife, recorded as Document No. 873683; all being a part of Section 28, Town 8 North, Range 18 East, Village of Chenequa, County of Waukesha, State of Wisconsin.



- SURVEY UPDATED 02/24/23 TO SHOW IMPROVEMENTS AND TOPOGRAPHY IN "PROJECT AREA" ONLY. NO MONUMENTATION SET.
- NOTE: ALL TREE SIZES ARE APPROXIMATE AT CHEST LEVEL
- CERTIFIED SURVEY MAP DOES NOT CLOSE BY 43.26'
- LOT 1 OF CERTIFIED SURVEY MAP DOES NOT CLOSE BY 15.26'
- DEED FOR TAX KEY #CHQV 0398 989 DOES NOT CLOSE BY 0.89'
- ALL DEEDS HAVE SECOND CALLS TO MONUMENTATION.
- THIS SURVEY IS BASED ON EXISTING MONUMENTATION.

LEGEND

 □ - Denotes Found Iron Stake △ – Denotes Existing Set Iron Stake × 908.00 — Denotes Existing Gas Meter **−905**− − Denotes Existing Electric Meter

GRAPHIC SCALE

(IN FEET) 1 inch = 15 ft.

DESCRIPTION 02/07/23 MWW/JE Topo Added DRAWN BY DATE Setback Lines Added 02/10/23 MWW75' Shoreline Setback 8/08/23 MV APPROVED BY DATE CADFILE XREF

BOUNDARY / TOPOGRAPHIC SURVEY QUADRACCI 6067 N. HWY 83 HARTLAND, WI. 53029

SETBACK

"THE INFORMATION SHOWN ON THIS DRAWING
CONCERNING TYPE AND LOCATION OF
UNDERGROUND UTILITIES IS NOT GUARANTEED TO
BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR
IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO."

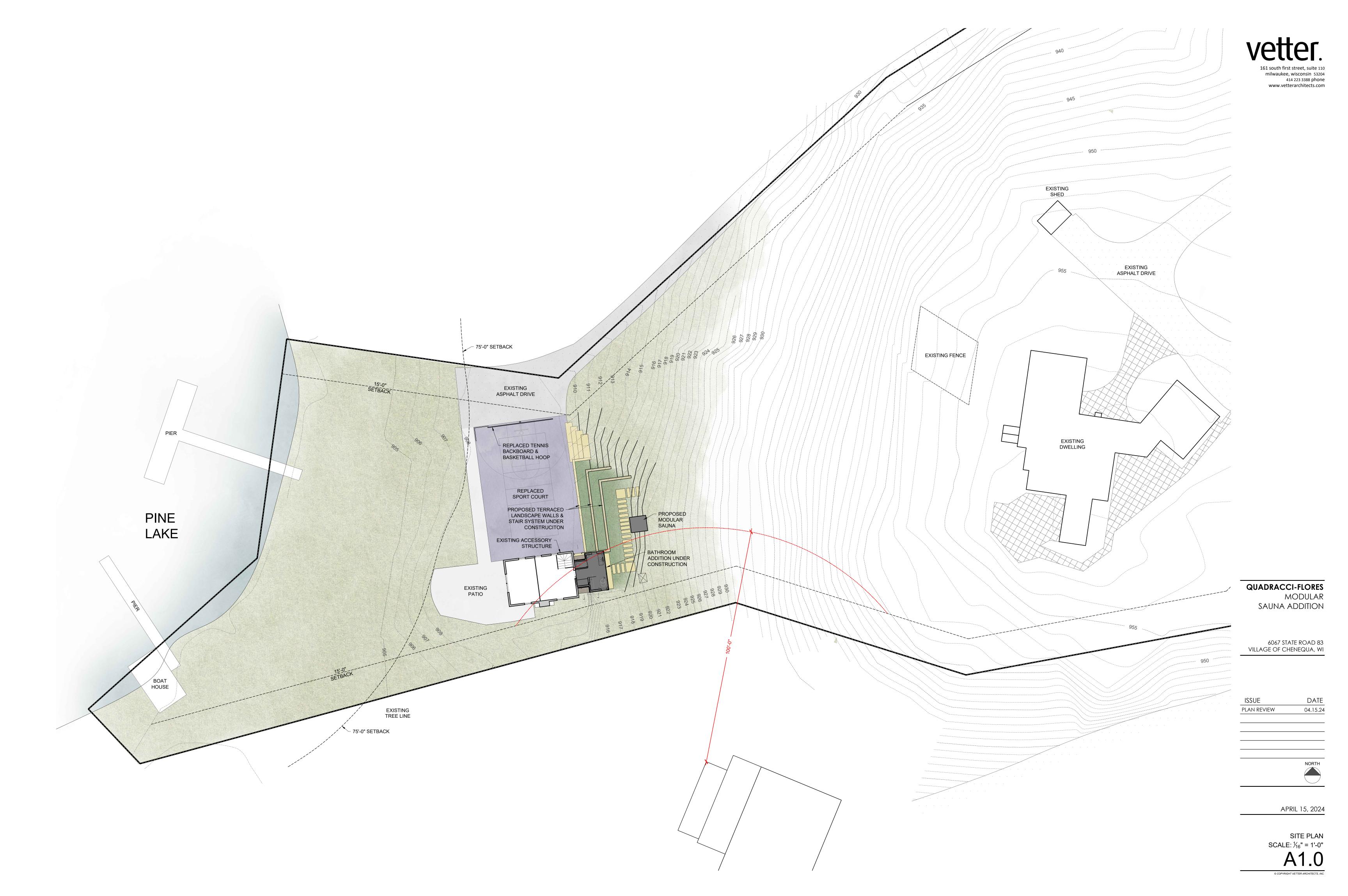


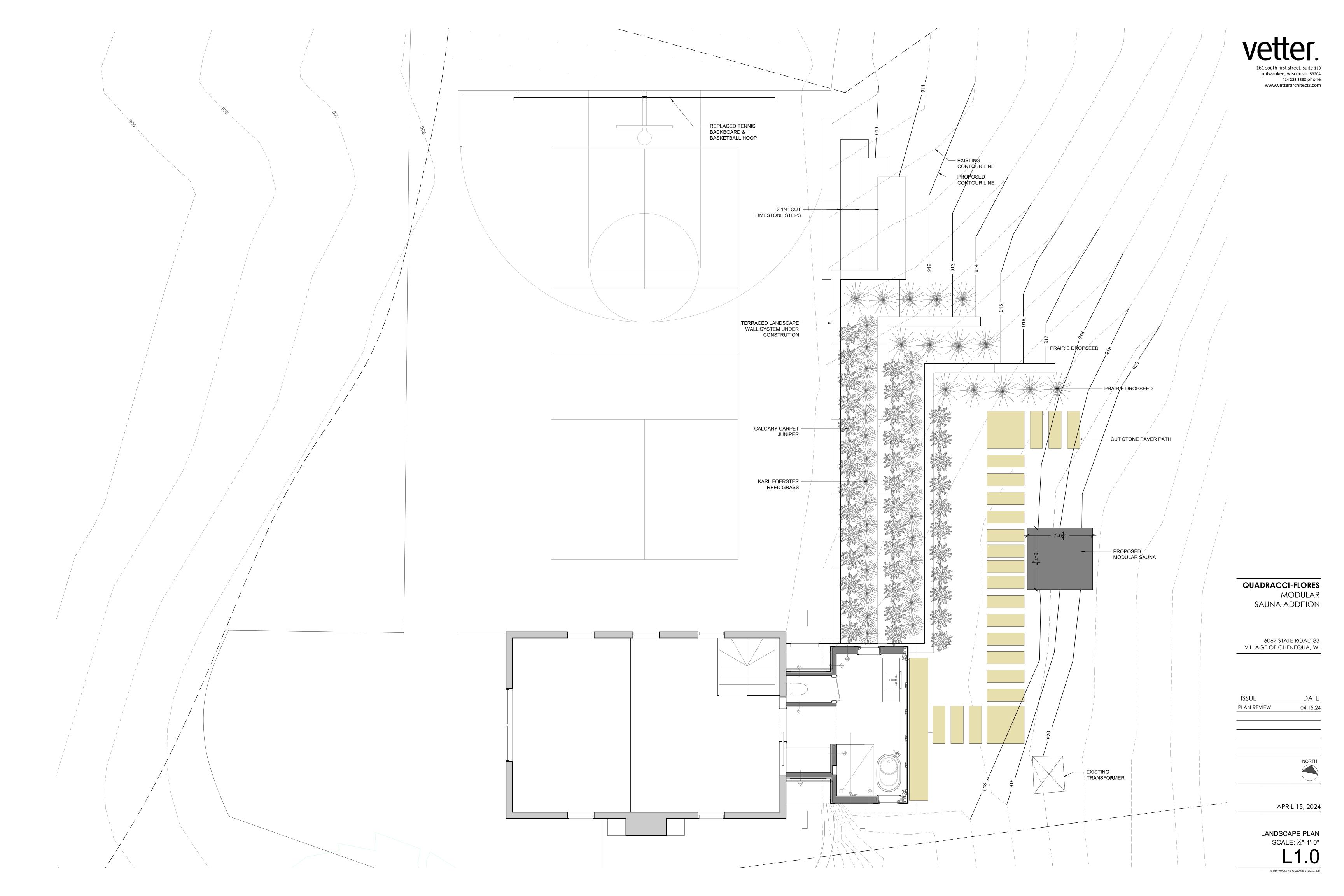
sai@wi.rr.com 2554 N. 100TH STREET P.O. BOX 26596 WAUWATOSA, WISCONSIN 53226 (414) 257-2212 FAX: (414) 257-2443
MARC C. PASSARELLI P.L.S.

Mun Posaul'
WISCONSIN REGISTERED LAND SURVEYOR

SAI PROJECT NUMBER r.com TREET 26596 53226 7-2443 36451 PROJECT SCALE 1" = 15' SHEET NUMBER

1 of 1







Date: May 6th, 2024 Meeting Date & Time: Monday, May 13th 2024 at 6:00 p.m.

To: Plan Commission, Village of Chenequa

From: Planning Department

Subject: Site Plan Review

Contractor: Austin Plumbing

Owner: Denise Spusta

Location: 6321 N Oakland Hills Road

Project Description: Proposed Solar Panels

Zoning District: Residence District

	REQUI RES. D	RED ISTRICT	PROPOSED PROJECT		
LOT AREA:	5	Acres	5	Acres	
LOT WIDTH: AVERAGE	200	L.F. min.	375	L.F.	

COMMENTS:

- 1. The applicant proposes to install two roof mounted solar arrays on the existing dwelling
 - a. Page three of the packet shows proposed panel locations
 - i. A 27-panel array is proposed to be mounted over the garage and facing southward
 - ii. A 17-panel array is proposed to be mounted on the house facing westward.
- 2. The proposed panels will not result in an increase in structure height
- 3. The proposed panels are pure black as shown on page 9 of the included packet.
- 4. This is a legal conforming lot
- c: Dan Neumer, Administrator
 Deanna Braunschweig, Clerk
 Paul Launer, Lake Country Inspections
 Denise Spusta, Owner
 Cody Lincoln, Zoning Administrator

PROJECT INFORMATION

SPUSTA RESIDENCE

PROPERTY OWNER NAME: DENISE SPUSTA

PHONE: CONTRACTOR

NAME: DARREN KALAL PHONE: (262) 315-5745

DESIGN SPECIFICATIONS

OCCUPANCY: R-3

CONSTRUCTION TYPE: SINGLE FAMILY RESIDENCE

(608) 575-5323

ZONING RESIDENTIAL GROUND SNOW LOAD: 30 PSF

GROUND SNOW LOAD: 30 WIND EXPOSURE: C

WIND SPEED: 115 MPH

APPLICABLE CODES & STANDARDS

2015 INTERNATIONAL BUILDING CODE (IBC) 2015 INTERNATIONAL FIRE CODE (IFC)

2015 INTERNATIONAL MECHANICAL CODE (IMC)

2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

2017 NATIONAL ELECTRICAL CODE (NEC)

SCOPE OF WORK

SYSTEM SIZE: STC: 44 X 410W = 18.040kW

PTC: 44 X 392.7W = 17.279kW

(44) REC SOLAR REC ALPHA REC410AA PURE (410W) SOLAR MODULES

(44) ENPHASE IQ8A-72-2-USMICROINVERTERS

(1) EATON DG225NRK 400A FUSED AC DISCONNECT WITH 200A FUSES (1) EATON DG223NRB 100A FUSED AC DISCONNECT WITH 80A FUSES

(6) ENPHASE IQ BATTERY-5P

(1) ENPHASE IQ SYSTEM CONTROLLER 3/3G

(1) 200A PV LOAD CENTER(1) ROOF TOP COMBINER BOX(1) ENPHASE IQ LOAD CONTROLLER

(1) RAPID SHUTDOWN DEVICE

(1) ENPHASE IQ ENVOY COMMUNICATION GATEWAY

MSP UPGRADE: NO MAIN BREAKER DERATE: NO

RACKING & MOUNTING

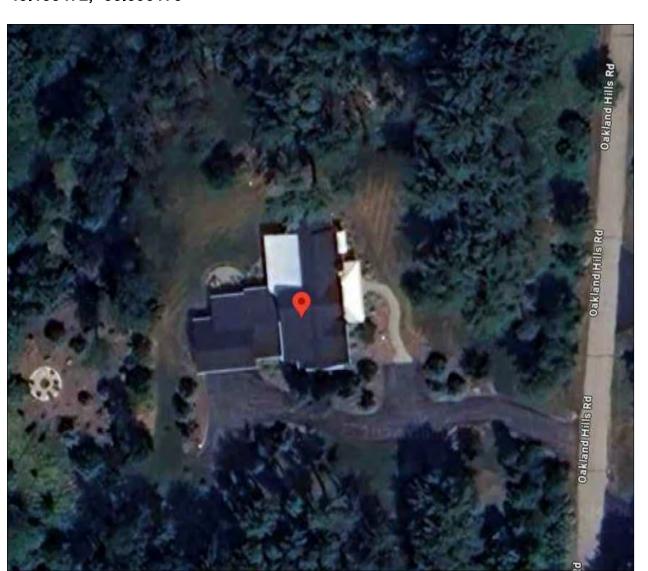
PV ATTACHMENT TYPE: IRONRIDGE HALO ULTRAGRIP FOR COMP SHINGLE ROOF

RACKING TYPE: IRONRIDGE XR100 RAIL- ROOF

MOUNT RACKING HARDWARE

NEW PHOTOVOLTAIC & ENERGY STORAGE SYSTEM PROJECT - 18.040 kW DC / 16.104 kW AC

> COORDINATES: 43.133472, -88.393173



AERIAL VIEW

SHEET NAME SHEET# **COVER SHEET** T-1 **PLAN NOTES** T-2 PV-1 SITE PLAN LAYOUT PV-2 ATTACHMENT DETAILS PV-3 MOUNTING DETAILS E-1 **ELECTRICAL CALCULATION** E-1.1 ELECTRICAL DIAGRAM E-2 WARNING LABELS S-1 SPEC SHEET S-2 SPEC SHEET S-3 SPEC SHEET S-4 SPEC SHEET S-5 SPEC SHEET S-6 SPEC SHEET S-7 SPEC SHEET

CONTRACTOR

AUSTIN PLUMBING HEATING AIR & ELECTRIC

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HARTLAND, WI 53029
UNITED STATES
darren@teamaustin.com
License#: 172292

DESIGNER:

GREENWORLD RENEWABLES

DESIGNER SIGNATURE:

SPUSTA

RESIDENCE

6321 OAKLAND HILLS RD, NASHOTAH, WI 53058

> APN:CHQV0402987 DATE:4/11/2024

> > SHEET T-1

1.1. PROJECT NOTES:

- 1.2. THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) ARTICLE 690, ALL MANUFACTURER'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
- THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION
- GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE INVERTER IN ACCORDANCE WITH NEC 690 5(A)
- 1.5. ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4 & NEC 690.60: PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED. IEEE 1547, 929, 519 COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
- MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
- 1.7. ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 690.4 (D). SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING [NEC 110.3].
- 1.8. ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT, ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.

1.10. PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR ROOF-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT.

1.11. WORK INCLUDES:

- 1.12. PV ROOF ATTACHMENTS IRONRIDGE HALO ULTRAGRIP FOR COMP SHINGLE 1.48. VOLTAGE DROP LIMITED TO 2%.
- 1.13. PV RACKING SYSTEM INSTALLATION IRONRIDGE XR100 RAIL ROOF MOUNT RACKING HARDWARE
- 1.14. PV MODULE AND INVERTER INSTALLATION REC SOLAR REC ALPHA REC410AA PURE (410W) SOLAR MODULES / ENPHASE IQ8A-72-2-US **MICROINVERTERS**
- 1.15. PV EQUIPMENT GROUNDING
- 1.16. PV SYSTEM WIRING TO A ROOF-MOUNTED JUNCTION BOX
- 1.17. PV LOAD CENTERS (IF INCLUDED)
- 1.18. PV METERING/MONITORING (IF INCLUDED)
- 1.19. PV DISCONNECTS
- 1.20. PV GROUNDING ELECTRODE & BONDING TO (E) GEC
- 1.21. PV FINAL COMMISSIONING
- 1.22. (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV
- 1.23. SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

1.24. SITE NOTES:

- 1.25. A LADDER WILL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- 1.26. THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH 30KWH STORAGE BATTERIES
- 1.27. THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- 1.28. PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION NEC 110.26.
- 1.29. ROOF COVERINGS SHALL BE DESIGNED. INSTALLED. AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF COVERING SERVES TO PROTECT THE BUILDING OR STRUCTURE.

1.30. EQUIPMENT LOCATIONS:

- 1.31. ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC
- 1.32. WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 (A),(C) AND NEC TABLES 310.15 (B)(2)(A) AND 310.15 (B)(3)(C)
- 1.33. JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34.
- 1.34. ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT. 1.35. ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED
- 1.36. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

PERSONNEL ACCORDING TO NEC APPLICABLE CODES.

1.37. STRUCTURAL NOTES:

- 1.38. RACKING SYSTEM
- 1.39. PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUST ALSO EXTEND
- A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY, ACCORDING TO RAIL MANUFACTURER'S INSTRUCTIONS.
- 1.41. JUNCTION BOX WILL BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED SEALED PER LOCAL REQUIREMENTS.
- 1.42. ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND SEALED WITH APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.
- 1.43. ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER.
- WHEN POSSIBLE. ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

1.45. WIRING & CONDUIT NOTES:

- 1.46. ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE, CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- 1.47. CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
- 1.49. DC WIRING LIMITED TO MODULE FOOTPRINT. OPTIMIZER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS.
- 1.50. AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1-BLACK PHASE B OR L2- RED. OR OTHER CONVENTION IF THREE PHASE PHASE C OR L3- BLUE, YELLOW, ORANGE**, OR OTHER CONVENTION NEUTRAL- WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH HIGHER VOLTAGE TO BE MARKED ORANGE [NEC 110.15

1.51. GROUNDING NOTES:

- 1.52. GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVISES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.
- 1.53. PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM NEC TABLE 250.122.
- 1.54. METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORD WITH 250.134 AND 250.136(A).
- 1.55. EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC 690.45 AND INVERTER MANUFACTURER'S INSTRUCTIONS.

- 1.56. EACH MODULE WILL BE GROUNDED USING WEEB GROUNDING CLIPS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE NOT USED, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED GROUNDING LUG HOLES PER THE MANUFACTURERS' INSTALLATION REQUIREMENTS.
- 1.57. THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE.
- 1.58. GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119]
- THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM PROVIDED ACCORDING TO NEC 250, NEC 690.47 AND AHJ.
- 1.60. GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690.5 IN GENERAL AND NEC 690.5 (A)(1) SPECIFICALLY.

1.61. DISCONNECTION AND OVER-CURRENT PROTECTION NOTES:

- 1.62. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS).
- 1.63. DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE. AND BE A VISIBLE-BREAK SWITCH
- RAPID SHUTDOWN OF ENERGIZED CONDUCTORS BEYOND 10 FT OF PV ARRAY OR 5 FT INSIDE A BUILDING WITHIN 10 SECONDS. CONTROLLED CONDUCTORS ≤30V AND ≤240VA [NEC 690.12]. LOCATION OF LABEL ACCORDING TO AHJ
- 1.65. ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8, 690.9. AND 240.
- 1.66. OPTIMIZER BRANCHES CONNECTED TO A SINGLE BREAKER OR GROUPED FUSES IN ACCORDANCE WITH NEC 110.3(B).
- 1.67. IF REQUIRED BY AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION ACCORDING TO NEC 690.11 AND UL1699B.

1.68. ELECTRICAL INTERCONNECTION NOTES:

EXEMPT FROM ADDITIONAL FASTENING.

- THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS OUTPUT MAY NOT EXCEED 120% OF THE BUSBAR RATING.
- 1.70. WHEN THE SUM OF THE PV SOURCES EQUALS >100% OF THE BUSBAR RATING, PV DEDICATED BACKFEED BREAKERS MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD.
- 1.71. AT MULTIPLE PV OUTPUT COMBINER PANEL, THE TOTAL RATING OF ALL OVERCURRENT DEVICES SHALL NOT EXCEED THE AMPACITY OF THE BUSBAR. HOWEVER, THE COMBINED OVERCURRENT DEVICE MAY BE EXCLUDED.
- SUPPLY-SIDE TAP INTERCONNECTION SHOULD BE WITH SERVICE ENTRANCE CONDUCTORS. BACKFEEDING BREAKER FOR UTILITY-INTERACTIVE INVERTER OUTPUT IS

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> **DESIGNER: GREENWORLD** RENEWABLES

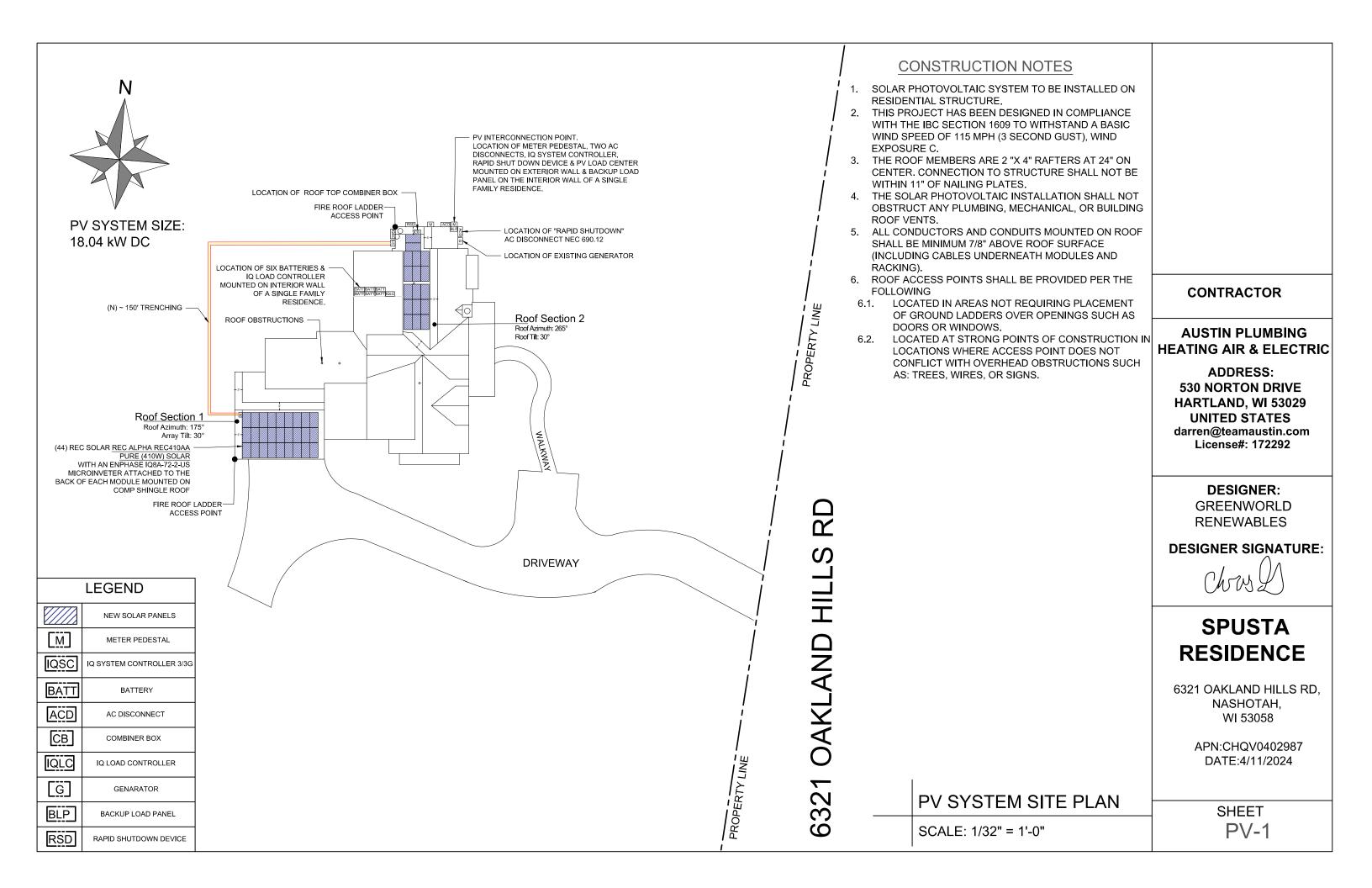
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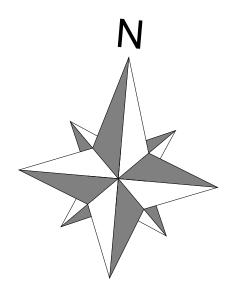
SPUSTA RESIDENCE

6321 OAKLAND HILLS RD, NASHOTAH. WI 53058

> APN:CHQV0402987 DATE:4/11/2024

> > SHEET

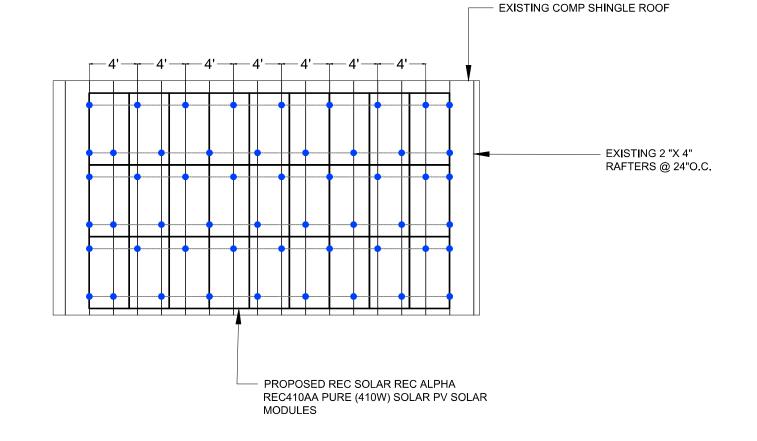


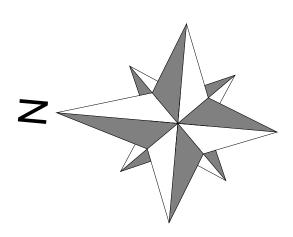


Roof Section 1

Roof Azimuth: 175°

Array Tilt: 30°

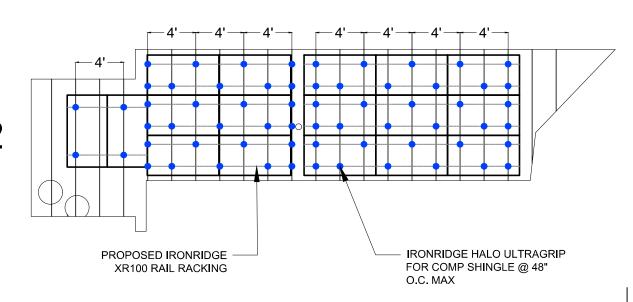




Roof Section 2

Roof Azimuth: 265°

Roof Tilt: 30°



PV SYSTEM MOUNTING DETAILS

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

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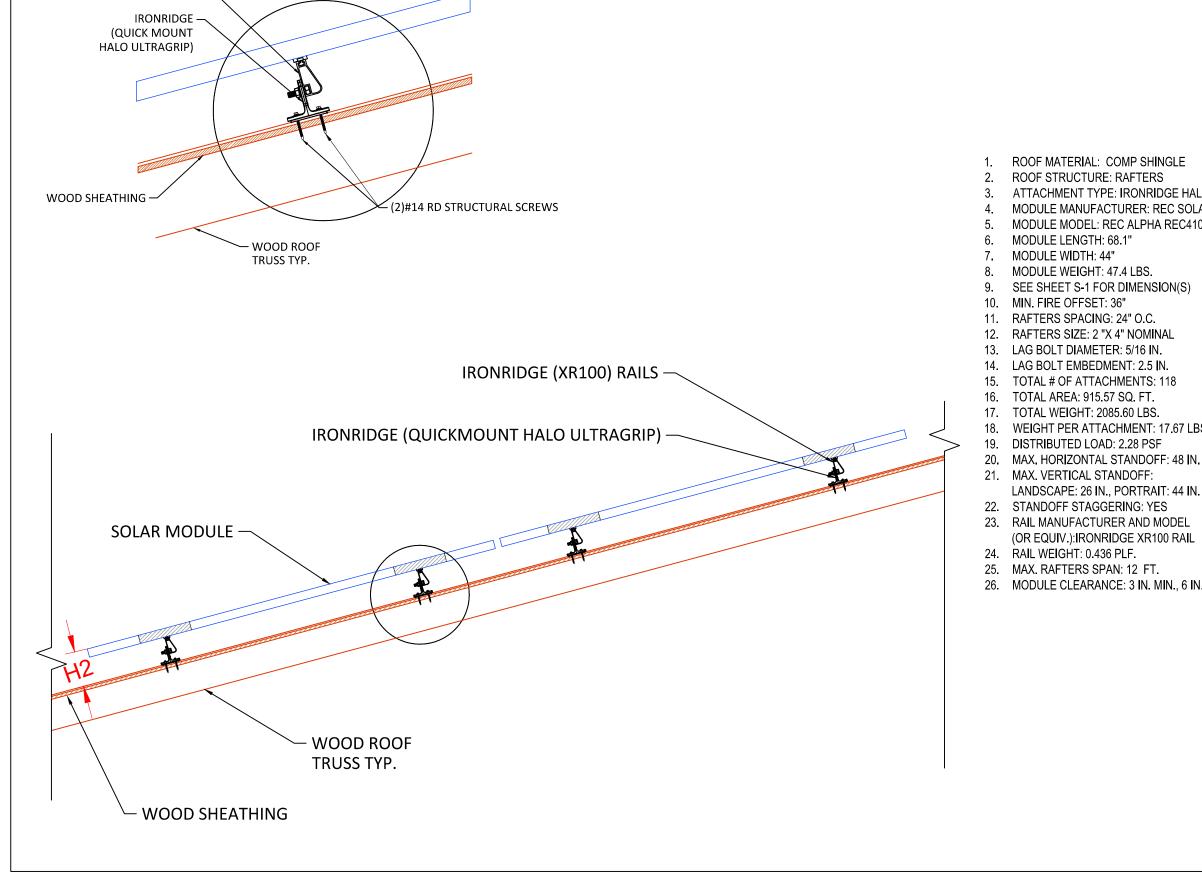
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> > SHEET

PV-2



IRONRIDGE (XR100) RAILS —

ROOF MATERIAL: COMP SHINGLE

ATTACHMENT TYPE: IRONRIDGE HALO ULTRAGRIP

MODULE MANUFACTURER: REC SOLAR

MODULE MODEL: REC ALPHA REC410AA PURE (410W) SOLAR

SEE SHEET S-1 FOR DIMENSION(S)

WEIGHT PER ATTACHMENT: 17.67 LBS.

20. MAX. HORIZONTAL STANDOFF: 48 IN.

23. RAIL MANUFACTURER AND MODEL

26. MODULE CLEARANCE: 3 IN. MIN., 6 IN. MAX.

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> > SHEET

PV-3

PV Module Ratings @ STC		SYSTEM SUMMARY						Inverter Ratings	
	REC SOLAR REC		BRANCH #1	BRANCH #2	BRANCH #3	BRANCH #4	BRANCH #5		ENPHASE
Madula Maka/Madal	ALPHA REC410AA	INVERTERS PER BRANCH	9	9	9	9	8		
Module Make/Model	PURE (410W) SOLAR	MAX AC CURRENT	1.45A	13.05A	13.05A	13.05A	11.6A	Inverter Make/Model	IQ8A-72-2-US
	MODULE	MAX AC OUTPUT POWER	3294W	3294W	3294W	3294W	2928W		
Max Power-Point Current (Imp)	9.72A	ARRAY STC POWER				•	18040W	Max DC Volt Rating	60V
Max Power-Point Voltage (Vmp)	42.2V	ARRAY PTC POWER					17279W	Peak Output Power	366W
Open-Circuit Voltage (Voc)	_ · · · · ·	MAX AC CURRENT	63.80A N			Max Nominal Voltage	240V		
Short-Circuit Current (Isc)		MAX AC POWER					16104W	Max AC Current	1.45A
Max Series Fuse (OCPD)	25A	DERATED (CEC) AC POWER					16846.83W	Max OCPD Rating	20A
Nominal Maximum Power at STC (Pmax)			<u> </u>					DESIGN TEMP	ERATURES

|Nominal Maximum Power at STC (Pmax) | 410W Maximum System Voltage 1000V Voc Temperature Coefficient

-0.24%/°C

Tag	Description	Wire Gauge	# of Conductors	Conduit Type	Conduit Size	
1	Enphase Q cable - THWN-2	10 AWG	3	N/A - Free Air	N/A - Free Air	
1	Bare Copper Ground (EGC/GEC)	6 AWG	1	N/A - Free Air	N/A - Free Air	
2	THWN-2	10 AWG	6	EMT	3/4"	
2	THWN-2 - Ground	10 AWG	1	EMT	3/4"	
3	THWN-2	12 AWG	3	PVC	1"	
3	THWN-2 - Ground	12 AWG	1	PVC	1"	
1A	Enphase Q cable - THWN-2	10 AWG	2	EMT	3/4"	
1A	Bare Copper Ground (EGC/GEC)	6 AWG	1	EMT	3/4"	
2A	THWN-2	10/2	2	ROMEX		
2A	THWN-2 - Ground	10/2	1	ROMEX		
3A	THWN-2	10 AWG	2	EMT	3/4"	
3A	THWN-2 - Ground	10 AWG	1	EMT	3/4"	
4	THWN-2	4 AWG	3	EMT	1"	
4	THWN-2 - Ground	8 AWG	1	EMT	1"	
5	THWN-2	4 AWG	2	EMT	1"	
5	THWN-2	8 AWG	1	EMT	1"	
6	THWN-2	3/0 AWG	3	EMT	2"	
6	THWN-2	6 AWG	1	EMT	2"	
6A	THWN-2	3/0 AWG	3	EMT	2"	
7	THWN-2	10 AWG	3	EMT	3/4"	

BATTERY SI	PECIFICATION
	ENPHASE ENERGY INC.
MODEL NUMBER	IQBATTERY-5P-1P-NA
	[240V] [SI1-SB]
TOTAL CAPACITY	5KWH
USABLE CAPACITY	5KWH
OUTPUT CURRENT	16A
NOMINAL DC VOLTAGE	76.8V

ASHRAE EXTREME LOW

ASHRAE 2% HIGH

CONTRACTOR

-24°C

32°C

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> **DESIGNER: GREENWORLD**

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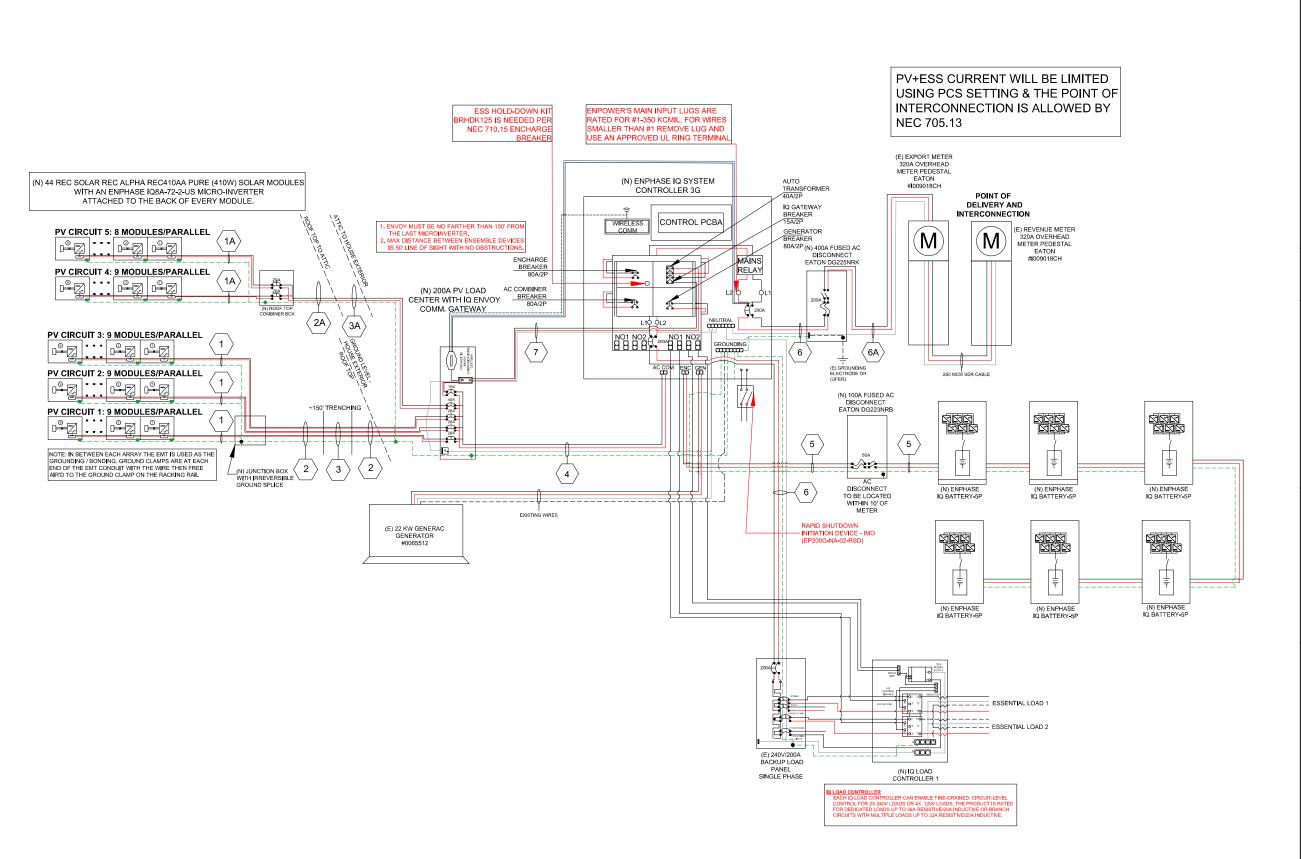
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> > SHEET E-1



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RENEWABLES

DESIGNER SIGNATURE:

Chrs D

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> APN:CHQV0402987 DATE:4/11/2024

> > SHEET E-1.1



ELECTRICAL SHOCK HAZARD

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

LABEL LOCATION:

INVERTER(S), AC DISCONNECT(S), AC COMBINER PANEL (IF APPLICABLE). PER CODE(S):NEC 2017: 690.13(B)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION:

UTILITY SERVICE ENTRANCE/METER, INVERTER/DC DISCONNECT IF REQUIRED BY LOCAL AHJ, OR OTHER LOCATIONS AS REQUIRED BY LOCAL AHJ.

PER CODE(S): NEC 2017: 690.56(C)(3), IFC 2015:



POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION:

ADJACENT TO PV BREAKER AND ESS OCPD (IF APPLICABLE). PER CODE(S): NEC 2017: 705.12(B)(2)(3)(b)



THIS EQUIPMENT FED BY MULTIPLE SOURCES. TOTAL RATING OF ALL OVERCURRENT DEVICES, EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE, SHALL NOT EXCEED AMPACITY OF BUSBAR.

LABEL LOCATION: MAIN SERVICE PANEL (IF APPLICABLE). PER CODE(S): NEC 2017: 705.12(B)(2)(3)(C)

WARNING

PHOTOVOLTAIC SYSTEM **COMBINER PANEL**

DO NOT ADD LOADS

LABEL LOCATION:

PHOTOVOLTAIC AC COMBINER (IF APPLICABLE).

PER CODE(S): NEC 2017:705.12(B)(2)(3)(c),

PHOTOVOLTAIC AC DISCONNECT

MAXIMUM AC OPERATING CURRENT: 63.8 AMPS NOMINAL OPERATING AC VOLTAGE: 240.0 VAC

LABEL LOCATION:
AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF INTERCONNECTION. PER CODE(S): NEC 2017: 690.54

PHOTOVOLTAIC AC DISCONNECT

MAXIMUM AC OPERATING CURRENT: 86.4 AMPS NOMINAL OPERATING AC VOLTAGE: 240.0VAC

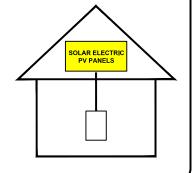
LABEL LOCATION:

AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF INTERCONNECTION.

PER CODE(S): NEC 2017: 690.54

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

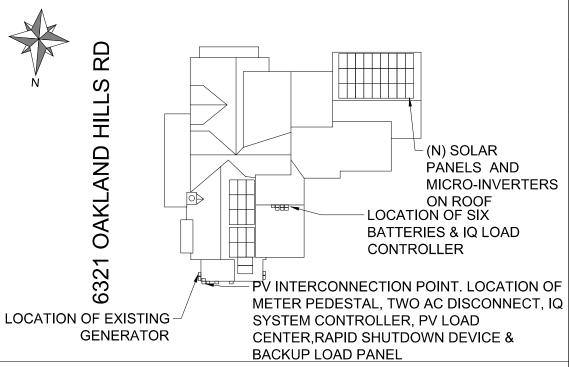
TURN RAPID SHUTDOWN **SWITCH TO THE "OFF" POSITION TO SHUT DOWN** PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY.



LABEL LOCATION: ON OR NO MORE THAT 3 M (10 FT) FROM THE SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED. PER CODE(S): NEC 2017: 690.56(C)(1)(a)

CAUTION:

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



CONTRACTOR

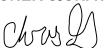
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DESIGNER:

GREENWORLD RENEWABLES

DESIGNER SIGNATURE:



SPUSTA RESIDENCE

6321 OAKLAND HILLS RD. NASHOTAH, WI 53058

> APN:CHQV0402987 DATE:4/11/2024

> > SHEET

PERMANENT SIGNAGE NOTES:

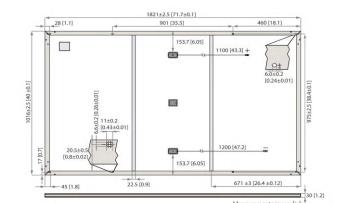
- NOT ALL PLACARDS SHOWN MAY BE REQUIRED BY LOCAL AHJ. CONTRACTOR TO VERIFY PLACARD REQUIREMENTS WITH LOCAL AHJ BEFORE INSTALLATION.
- ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE
- ALTERNATE POWER SOURCE PLACARD SHALL BE METALLIC OR PLASTIC, ENGRAVED OR MACHINE PRINTED LETTERS IN A CONTRASTING COLOR TO THE PLAQUE. THIS PLAQUE WILL BE ATTCHED BY POP RIVETS OR SCREWS OR OTHER APPROVED METHOD.
- DIRECTORY PLACARD MARKING CONTENT AND FORMAT: RED BACKGROUND, WHITE LETTERING, MINIMUM 3/8" LETTER HIEGHT, ALL CAPITAL LETTERS, ARIAL OR SIMILAR FONT, NON BOLD, REFLECTIVE WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT.



REC ALPHA PURE SERIES PRODUCT SPECIFICATIONS



GENERAL DATA 132 half-cut REC heterojunction bifacial cells with Cell type: lead-free, gapless technology, 6 strings of 22 cells in series $0.13\,in (3.2\,mm) \, solar glass \, with anti-reflective \, surface \, treatment$ Backsheet Anodized aluminum (black) 3-part, 3 bypass diodes, lead-free Junction box IP68 rated, in accordance with IEC 62790 Stäubli MC4 PV-KBT4/KST4(4 mm²) n accordance with IEC 62852, IP68 only when connected 12 AWG (4 mm²) PV wire, 43+47 in (11+1.2 m) Cable: 71.7 x 40 x 1.2 in (19.91 ft²) / 1821 x 1016 x 30 mm (1.85 m²) Weight: Origin: Made in Singapore



ELECTRICAL DATA		Product	Code*: RECxx	xAA Pure	
Power Output - P _{MAX} (Wp)	390	395	400	405	410
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - V _{MPP} (V)	40.6	41.0	41.4	41.8	42.2
Nominal Power Current - I _{MPP} (A)	9.61	9.64	9.67	9.69	9.72
Open Circuit Voltage - V _{oc} (V)	48.4	48.6	48.8	49.1	49.4
Short Circuit Current - I _{SC} (A)	10.38	10.39	10.40	10.41	10.42
Power Density (W/ft²)	19.6	19.8	20.1	20.3	20.6
Panel Efficiency (%)	21.1	21.4	21.6	21.9	22.2
Power Output - P _{MAX} (Wp)	297	301	305	308	312
Nominal Power Voltage - V _{MPP} (V)	38.3	38.6	39.0	39.4	39.8
Nominal Power Current - I _{MPP} (A)	7.77	7.79	7.82	7.83	7.85
Open Circuit Voltage - V _{DC} (V)	45.6	45.8	46.0	46.3	46.6
Short Circuit Current - I _{SC} (A)	8.38	8.39	8.40	8.41	8.42
V-Lt-tddttdW/CTC	ANALE : 10	7FW/ 6/1000W	1/ 2\ + 7	TOT (DECC) L	

Values at standard test conditions (STC. air mass AM1.5, irradiance 10.75 W/sq ft (1000 W/m²), temperature 77°F (25°C), based on a production spread with a tolerance of P_{Max} V_{Qx} $V_$

MAXIMUM RATINGS		WARRANTY		
perational temperature:	-40+85°C		Standard	REC
laximum system voltage:	1000 V	Installed by an REC Certified Solar Professional	No	Yes
laximum test load (front):	+7000 Pa (146 lbs/ft²)*	System Size	All	≤25 kW
faximum test load (rear):	-4000 Pa (83.5 lbs/ft²)°	Product Warranty (yrs)	20	25
fax series fuse rating:	25 A	Power Warranty (yrs)	25	25
lax reverse current:	25 A	Labor Warranty (yrs)	0	25
	anual for mounting instructions.	Power in Year 1	98%	98%
Design loa	d = Test load / 1.5 (safety factor)	Annual Degradation	0.25%	0.25%
		D	020/	020/

	WARRAINTT			
+85°C		Standard	REC	ProTrust
000 V	Installed by an REC Certified Solar Professional	No	Yes	Yes
s/ft²)°	System Size	All	≤25 kW	25-500 kW
s/ft²)°	Product Warranty (yrs)	20	25	25
25 A	Power Warranty (yrs)	25	25	25
25 A	Labor Warranty (yrs)	0	25	10
uctions. y factor)	Power in Year 1	98%	98%	98%
	Annual Degradation	0.25%	0.25%	0.25%
	Power in Year 25	92%	92%	92%
	See warranty docu	ments for d	etails. Cor	nditions apply

Available from:

Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.

CERTIFICATIONS	5
IEC 61215:2016, IEC	. 61730:2016, UL 61730
IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
UL 61730	Fire Type Class 2
IEC 62782	Dynamic Mechanical Load
IEC 61215-2:2016	Hailstone (35mm)
IEC 62321	Lead-free acc. to RoHS EU 863/2015
ISO 14001 ISO 9001	JEC 45001 JEC 62941

TEMPERATURE RATINGS*	
Nominal Module Operating Temperature:	44°C (±2°C)
emperature coefficient of P _{MAX} :	-0.24 %/°C
emperature coefficient of V _{oc} :	-0.24 %/°C
	0.010/106

*The temperature coefficients stated are linear values

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Panels per pallet: Panels per 40 ft GP/high cube container: 792 (24 pallets) Panels per 53 ft truck: 891 (27 pallets) LOW LIGHT BEHAVIOUR



REC Solar PTE. LTD. 20 Tuas South Ave. 1 Singapore 637312 post@recgroup.com



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> APN:CHQV0402987 DATE:4/11/2024

> > **SHEET** S-1







IQ8 Series Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the Enphase IQ Battery, Enphase IQ Gateway, and the Enphase App monitoring and analysis software.



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-n-play MC4 connectors.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



IQ8 Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, when installed according to manufacturer's instructions.

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IQ8SE-DS-0001-01-EN-US-2022-03-17

Easy to install

- Lightweight and compact with plug-n-play connectors
- Power Line Communication (PLC) between components
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the crid is down*
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest highpowered PV modules

Microgrid-forming

- Complies with the latest advanced grid support**
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) requirements

IQ8 Series Microinverters

INPUT DATA (DC)		108-60-2-US	108PLUS-72-2-US	108M-72-2-US	108A-72-2-US	IQ8H-240-72-2-US	IQ8H-208-72-2-		
Commonly used module pairings ²	W	235 - 350	235 - 440	260 - 460	295 - 500	320 - 540+	295 - 500+		
Module compatibility	60	0-cell/120 half-cell		60-cell/120 half-cell, 6	66-cell/132 half-cell a	and 72-cell/144 half-c	ell		
MPPT voltage range	٧	27 - 37	29 - 45	33 – 45	36 - 45	38 - 45	38 - 45		
Operating range	V	25 - 48			25 - 58				
Min/max start voltage	V	30 / 48			30 / 58				
Max input DC voltage	V	50			60				
Max DC current ³ [module lsc]	A			1	5				
Overvoltage class DC port					II.				
DC port backfeed current	mA				0				
PV array configuration		1x1 Ungrounded a	rray; No additional [OC side protection requ	ired; AC side protect	ion requires max 20A	per branch circuit		
OUTPUT DATA (AC)		108-60-2-US	108PLUS-72-2-US	108M-72-2-US	108A-72-2-US	108H-240-72-2-US	IQ8H-208-72-2-		
Peak output power	VA	245	300	330	366	384	366		
Max continuous output power	VA	240	290	325	349	380	360		
Nominal (L-L) voltage/range4	٧			240 / 211 - 264			208 / 183 - 25		
Max continuous output current	Α	1.0	1.21	1.35	1.45	1.58	1.73		
Nominal frequency	Hz			6	0				
Extended frequency range	Hz			50	- 68				
AC short circuit fault current over 3 cycles	Arms			2			4.4		
Max units per 20 A (L-L) branch circuit ⁵		16	13	11	11	10	9		
Total harmonic distortion				<	5%				
Overvoltage class AC port					II				
AC port backfeed current	mA			3	60				
Power factor setting				1	.0				
Grid-tied power factor (adjustable)				0.85 leading	- 0.85 lagging				
Peak efficiency	%	97.5	97.6	97.6	97.6	97.6	97.4		
CEC weighted efficiency	%	97	97	97	97.5	97	97		
Night-time power consumption	mW			6	60				
MECHANICAL DATA					-				
Ambient temperature range				-40°C to +60°C	(-40°F to +140°F)				
Relative humidity range		4% to 100% (condensing)							
DC Connector type		MC4							
Dimensions (HxWxD)		212 mm (8.3") x 175 mm (6.9") x 30.2 mm (1.2")							
Weight		1.08 kg (2.38 lbs)							
Cooling		Natural convection - no fans							
Approved for wet locations		Yes							
Pollution degree				Р	03				
Enclosure		Class II double-insulated, corrosion resistant polymeric enclosure							
Environ. category / UV exposure rating				NEMA Type	6 / outdoor				
COMPLIANCE									
	9	CA Rule 21 (UL 1741-S	A), UL 62109-1, UL17	741/IEEE1547, FCC Part	15 Class B, ICES-000	3 Class B, CAN/CSA-	-C22.2 NO. 107.1-0		
Certifications		This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.							

the compatibility calculator at https://link.enphase.com/module-compatibility (3) Maximum continuous input DC current is 10.6A (4) Nominal voltage range can be extended beyond nominal if required by the utility. (5)

Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

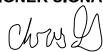
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DESIGNER SIGNATURE:



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> APN:CHQV0402987 DATE:4/11/2024

IQ8SE-DS-0001-01-EN-US-2022-03-17

SHEET S-2

^{*} Only when installed with IQ System Controller 2, meets UL 1741. IQ8H-208V operates only in grid-tied mode.

^{**} IQ8 Series Microinverters supports split phase, 240V. IQ8H-208 supports split phase, 208V only.

Data Sheet **Enphase Networking**

Enphase IQ Envoy

The **Enphase IQ Envoy**™ communications gateway delivers solar production and energy consumption data to Enphase Enlighten™ monitoring and analysis software for comprehensive, remote maintenance and management of the Enphase IQ System.

With integrated revenue grade production metering and optional consumption monitoring, Envoy IQ is the platform for total energy management and integrates with the Enphase Ensemble™and the Enphase IQ Battery™.



Smart

- · Enables web-based monitoring and control
- · Bidirectional communications for remote upgrades
- Supports power export limiting and zeroexport applications

- Easy system configuration using Enphase Installer Toolkit™ mobile app
- · Flexible networking with Wi-Fi, Ethernet, or cellular

Reliable

- · Designed for installation indoors
- or outdoors
- · Five-year warranty

Enphase IQ Envoy

MODEL NUMBERS					
Enphase IQ Envoy™ ENV-IQ-AM1-240	Enphase IQ Envoy communications gateway with integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and optional consumption monitoring (+/- 2.5%). Includes				
	one 200A continuous rated production CT (current transformer).				
ACCESORIES (Order Seperately)					
Enphase Mobile Connect™ CELLMODEM-M1 (4G based LTE-M/5-year data plan) CELLMODEM-M1-B (4G-based LTE-M1/5-year data plan)	Plug and play industrial grade cellular modem with data plan for systems up to microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US V Islands, where there is adequate cellular service in the installation area.)				
Consumption Monitoring CT CT-200-SPLIT	Split-core consumption CTs enable whole home metering.				
Ensemble Communications Kit COMMS-KIT-01	Installed at the IQ Envoy. For communications with Enphase Encharge™ storage and Enphase Enpower™ smart switch. Includes USB cable for connection to IQ Envoy or Enphase IQ Combiner™ and allows wireless communication with Encharand Enpower.				
POWER REQUIREMENTS					
Power requirements	120/240 VAC split-phase. Max 20 A overcurrent protection required.				
Typical Power Consumption	5W				
CAPACITY					
Number of microinverters polled	Up to 600				
MECHANICAL DATA					
Dimensions (WxHxD)	21.3 x 12.6 x 4.5 cm (8.4" x 5" x 1.8")				
Weight	17.6 oz (498 g)				
Ambient temperature range	-40° to 65° C (-40° to 149° F) -40° to 46° C (-40° to 115° F) if installed in an enclosure				
Environmental rating	IP30. For installation indoors or in an NRTL-certified, NEMA type 3R enclosure.				
Altitude	To 2000 meters (6,560 feet)				
Production CT	 Limited to 200A of continuous current / 250A OCPD – 72kW AC Internal aperture measures 19.36mm to support 250MCM THWN conductors (ma UL2808 certified for revenue grade metering 				
Consumption CT	- For electrical services to 250A with parallel runs up to 500A - Internal aperture measures 0.84" x 0.96" (21.33mm x 24.38mm) to support 3/0 THWN conductor - UL2808 certified, for use at service entrance for services up to 250Vac				
INTERNET CONNECTION OPTIONS					
Integrated Wi-Fi	802.11b/g/n				
Ethernet	802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)				
Mobile	CELLMODEM-M1 (4G) or CELLMODEM-M1-B (4G). Not included. Note that an Enphase Mobile Connect cellular modem is required for all Ensemble installation				
COMPLIANCE					
Compliance	UL 61010-1 CAN/CSA C22.2 No. 61010-1 47 CFR, Part 15, Class B, ICES 003 IEC/EN 61010-1:2010, EN50065-1, EN61000-4-5, EN61000-6-1, EN61000-6-2 Metering: ANSI C12.20 accuracy class 0.5 (PV production only)				





To learn more about Enphase offerings, visit enphase.com

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> > SHEET S-3

To learn more about Enphase offerings, visit enphase.com



IQ System Controller 3/3G

The Enphase IQ System Controller 3/3G connects the home to grid power, the IQ listery system, and solar PV. It provides microgrid intercommunities on MID functionally liv-automatically detecting and seamlessly transitioning the home energy system from grid power to backup power in the event of a grid failure. It consolidates intercommento equipment into a single enclosure and streamlines grid-independent capabilities of PV and storage installations by providing a consistent, pre-wired solution for residential applications.

IQ Battery 5P.



The high-powered smart grid-ready IQ Series Microinverters (M Series, IQ6, IQ7, and IQ8 Series) dramatically simplify the installation



IQ Combiner 5/5C Consolidates PV interconnection equipment into a single enclosure and streamlines IQ Series
Microinverters and IQ Gateway installation by
providing a consistent, pre-wired solution for
residential applications



Easy to install

- Connects to service entrance" or main load center
- · Includes neutral-forming transformer Mounts on single stud with centered
- Provides conduit entry from the bottom, left, or right
- includes color-coded wires for ease of wiring the System Shutdown Switch
- Integrates hold-down functionality to eliminate the need for hold-down kits and special breakers

Flexible

- · Can be used for Sunlight Backup. Home Essentials Backup, or Full Energy Independence
- IQ System Controller 3 integrates with IQ Battery 5P
- O System Controller 30 Integrates with select AC standby generators. See the Generator integration beck brief for a list of generators.
- Provides a seamless transition to

Safe and reliable

- · System Shutdown Switch can be used to disconnect PV, battery, and generator systems
- System Shutdown Switch acts as a repid shutdown initiator of grid-forming IQB PV Microinverters for the safety of maintenance technicians/first responders
- · 10-year limited warranty

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ELECTRICAL SPECIFICATIONS	1.00				
Maximum overcurrent protection device rating for PV compliner unit	80 A				
Internal busbar rating	200 A				
Neutral-forming transformer (NFT)	Breater rating (unr-installed): 40 A tintween L1 and Neutral: 40 A Instrucen L2 and Neutral Continues; stated privare 3,600 VA Maximum certificanus unbalance current: 30 A @ 120 V Park unbalanced current: 60 A @ 120 V for two seconds				
MECHANICAL DATA					
Dimensions (WxHxD)	50 sm x 91.6 sm x 24.6 sm (19.7 in x 36 in x 9.7 in)				
Weight	20.4 kg (87 lbs)				
Ambient temperature range	-40°C to 50°C (-40°F to (22°F)				
Cooling	Natural convection and a heat shield				
Enclosure environmental rating	Gutdoor, NEMA type 31, polycarbonate construction				
Maximum altitude	2500 meters (8200 feet)				
WIRE SIZES					
Connections (All lugs are rated to 90°C)	Main lugs and backup load lugs C5R breaker battom wiring lugs AC combiner lugs, IQ Battery lugs, and generator lugs	Cu/Ati 6 AWG-300 komili Cu/Ati 2 AWG-300 komili 14 AWG-2 AWG			
	Neutral Darge (ugs)	Gu/At 6 AWG-300 kemili 14 AWG-1/0 AWG			
Neutral and ground bars	Large holes (5/16: 24 UNF) Small hotes (10: 32 UNF)	14 AWO 6 AWO			
COMPLIANCE	THE PERSON NAMED IN COLUMN 1				
Compliance (under progress)	678, UL 508', UL 508' GBA 22.2 No. 107.L 47 CFR Part IS Class B. IC	B, 3rd R.L.), UI, 1741 PCS CRD, UL 1996, UL 669A, UL ES 003, ICC ES AC156. or use es service equipment in the United States			
WARRANTY	100000000000000000000000000000000000000				
Limited warranty (restrictions apply)	Up to 10 years (EP200G: NA-02-RSD has a S	year warranty)			
COMPATIBILITY*					
Battery	IQ Battery SP (IQBATTERY-SP-IP-NA)				
Microinverters	ICAS, ICAS, and M Deries Micromverters*				
IQ Combiner	1Q Combiner 5/5C (X-1Q-AM)-240-5C, X-IQ	AMI-240-50			
Communications Kit 2	COMMI-KIT-02				

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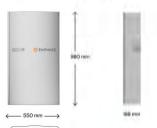
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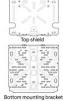
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> > **SHEET** S-4



IQ Battery 5P















IQ Battery 5P

	The IO Battery SP system with integrated IO Microinverters and battery management system (BMS) with			
IQBATTERY-5P-IP-NA	battery controller.			
WHAT'S IN THE BOX	The state of the s			
IQ Battery SP unit	IO Battery 5P unit (805-702-U500-1-3)			
ID cover and conduit cover	(C) Battery 5P cover with two conduit covers for left-side and right-side of the unit			
Bottom mounting bracket and top shield	Bottom mounting bracket for mounting bracket on the wall. One top shield required for UL9540A			
M5 seismic screws	Two M5 selsmic screws for securing battery unit on boftom bracket			
M4 grounding screws	Two M4 grounding screws to secure top shield on bottom wall-mount bracket			
M5 ID cover grounding screws	Two MS ID Cover grounding screws for EMI/EMC requirement			
Cable ties	Bix cable lies for securing field cables to the unit			
CTRL connector	Spare CTRL connector without resistor for CTRL wiring			
CTRL connector with resistor	Spare CTRL connector with resistor for CTRL wiring			
Quick Install Guide (QIG)	QIO for tristructions on IQ Battery unit initialiation			
OPTIONAL ACCESSORIES AND REPLACEMENT PAIL				
IQ8D-BAT-RMA	IGBD-BAT Microinverter for field replacement			
BO5-T02-US00-1-3-RMA	IQ Battery SP Battery unit for field replacement			
B05-CX-0550-O	IG Battery 5P cover for field replacement			
B05-PI-0550-O	IQ Battery 6P pedestal mount			
B05-CP-096-O	iG Battery SP conduct plates for field replacement, includes one left side and one right side conduct pla			
B05-WB-0543-0	IQ Battery SP well bracket for field replacement, includes one wall-mount bracket and one top shield			
IQBATTERY-HNDL-5	tQ Battery SP lifting handles, includes one left side and one right side lifting handle			
B05-ACFB-080-O	IO Battery SP AC filter board for field replacement			
B05-BMSNA-0490-O	IQ Battery SP BMS board for Build replacement			
B05-CANB-063-O	ICI Bettery RP suntral communication board for Reld replacement			
B05-NICS-0524-O, B05-NUCS-0524-O	fQ Battery SP commit writch precistallul on the wiring cover for field replacement			
OUTPUT (AC)	@240 VAC			
Rated (continuous) output power	3.641VA			
Peak output power	7.66 kVA C3 sectionids2, 6.14 kVA (10 sectionids)			
Nominal voltage/Range	240/211:264 VAC			
Nominal frequency/Range	60/97-63 Hz			
Rated output current (@240 VAC)	16.A			
Peak output current (@240 VAC)	32 A (3 seconds), 25.6 A (10 seconds)			
Power factor (adjustable)	0.65 leading065 legging			
Maximum output overcurrent protection	20 Aper unit			
Interconnection	Single-phase			
AC round-trip efficiency ²	90%			
Chemistry	Lithium iroo phosphate (LFP)			
Altitude	Up to 2,500 meters (8,302 feet)			
No september	AND ADDRESS OF THE PARTY OF THE			

IQ Battery 5P

Total capacity	5.0 kWh			
Usable capacity	5.0 kWn			
DC round-trip efficiency	ORK.			
Nominal DC voltage	76.8 V			
Maximum DC voltage	80.4 V			
Ambient operating temperature range (charging)	-20°C to 50°C (-4°F to 62°F) non-condensing			
Ambient operating temperature range (discharging)	20°C to 66°C (4°F to (8°F) non-condensing			
Optimum operating temperature range	O'C to 30°C (32°T to 86°T)			
Chemistry	Cititum iron phosphate (LFP)			
MECHANICAL DATA				
Dimensions (HxWxD)	980 mm x 550 mm x 188 mm (36.6 in x 21.7 in x 7.4 in)			
Lifting weight	66.3 kg (146.1 lbs)			
Total installed weight	78.0 kg (174 lini)			
Enclosure	Outdoor :NEMA 38			
Q8D-BAT Microinverter enclosure	NEMA type 6			
Cooling	Natural convection			
FEATURES AND COMPLIANCE				
Compatibility	Compatible with IC and M [Jeries Mercerverturs, IC Bystem Controller 3/3.6, IC Combine B/BC, IC Getevay for grid-fied and backup operation			
Communication	When control communication			
Services	Backup, Belf-Consumption, TOU, and NEM IntegRITy			
Monitoring	Exphase lostaller Platform and Enphase App monitoring options: API integration			
Compliance	CA RUJO 21 (UL. 1741-RA), IEEE 1947/2019 (UL. 1741-SB), 5/rd EU.) CAHACIRA C3/23 Pilo, 1071-16 UL. 1994 (U.) 19940, U. 1998 (U.) 1991, VII. 1991, NEMA Type 3/r, AC190 EMI 47 CPR, Part VB, Class R, ICEB 003 Cell Moddel UL. 1973, UNI 50-3 Investres UL. 1973, UNI 50-3 Investres UL. 1974			
LIMITED WARRANTY				
Limited warranty	HION capacity, up to th years or 6,000 system."			
Limiteu warranty	and a deline of the second and the second se			

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> **DESIGNER: GREENWORLD** RENEWABLES

DESIGNER SIGNATURE:



108-38-05H-000K/LD-6N-US-2023-05-22

SPUSTA RESIDENCE

6321 OAKLAND HILLS RD, NASHOTAH, WI 53058

> APN:CHQV0402987 DATE:4/11/2024

> > SHEET S-5

Tech Brief



QuickMount® HUG

Multi-Tiered Waterproofing HUG® utilizes a multi-tiered stack of

components to provide revolutionary

waterproofing protection. The Halo castaluminum, raised-perimeter foundation

surrounds the UltraGrip base—a foampacked mastic seal combination that

prevents water intrusion by adhering

Halo UltraGrip™ is part

of the QuickMount®

roduct line.

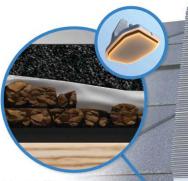
and sealing with the shingle surface



The Respect Your Roof Deserves

When integrating with a home, solar attachments must be dependable for the lifetime of the rooftop. Due to recent innovations, many asphalt shingles have bonded courses. A mount that protects without the need to pry shingles can really speed things up.

Halo UltraGrip®(HUG®) is here to respect the roof. Its Halo is a cast-aluminum barrier that encases the UltraGrip, our industrial-grade, foam-and-mastic seal. This allows HUG to accelerate the installation process and provide the utmost in waterproofing protection. Give your roof a HUG.®



UltraGrip® Seal Technology

HUG UltraGrip utilizes a state-of-the art seal design that uses a unique, foam-and-mastic combination. The foam-backed adhesive provides an entirely new flashing system that conforms and adheres to every nook and cranny of composition shingles. filling gaps and shingle step-downs (up to 1/8" in height).

Triple Bated & Certified

to Respect the Roof"

UL 2703, 441 (27)

TAS 100(A)-95





Rafter & Deck Mounting Options

Mount HUG® to the roof rafters, the roof deck, or both with our custom-engineered RD (rafter-or-deck) Structural Screw. The RD Structural Screw anchors HUG to the roof vith an EPDM sealing washer, completing the stack of waterproofing barriers. See packside for more installation information



Adaptive, Rafter-Friendly Installation







Tech Brief

If more than 3 screws miss the rafter secure six screws to deck mount it.

Trusted Strength & Less Hassle



Structural capacities of HUG® were reviewed in many load directions, with racking rail running cross-slope or up-slope in relation to roof pitch.

For further details, see the HUG certification letters for attaching to rafters and decking.

IronRidge designed the HUG, in combination with the RD Structural Screw to streamline installs, which means the following:

- · No prying shingles
- · No roof nail interference
- · No pilot holes necessary
- No sealant (in most cases)
- · No butyl shims needed

Attachment Loading

The rafter-mounted HUG has been tested and rated to support 1004 (lbs) of uplift and 368 (lbs) of lateral load.

Structural Design Ħ

Parts are designed and certified for compliance with the International Building Code & ASCE/SEI-7.

Water Seal Ratings

HUG passed both the UL 441 Section 27 "Rain Test" and TAS 100(A)-95 "Wind Driven Rain Test" by Intertek.

UL 2703 System

Systems conform to UL 2703 mechanical and bonding requirements. See Flush Mount Manual for more info.

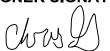
CONTRACTOR

AUSTIN PLUMBING HEATING AIR & ELECTRIC

ADDRESS: **530 NORTON DRIVE** HARTLAND, WI 53029 **UNITED STATES** darren@teamaustin.com License#: 172292

DESIGNER: GREENWORLD RENEWABLES

DESIGNER SIGNATURE:



SPUSTA RESIDENCE

6321 OAKLAND HILLS RD. NASHOTAH, WI 53058

> APN:CHQV0402987 DATE:4/11/2024

SHEET S-6



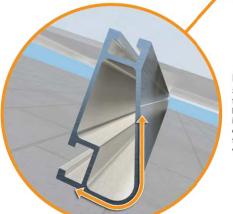


XR Rail® Family

Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails® are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails[®] is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Compatible with Flat & Pitched Roofs



XR Rails® are compatible with FlashFoot® and other pitched roof



IronRidge® offers a range of tilt leg options for flat roof mounting applications.

Corrosion-Resistant Materials

All XR Rails® are made of 6000-series aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.



XR Rail[®] Family

The XR Rail[®] Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail[®] to match.



XR10

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves spans up to 6 feet, while remaining light and economical.

- · 6' spanning capability
- · Moderate load capab
- Clear & black anodized finish
- · Internal splices available



XR100

XR100 is a residential and commercial mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 10 feet.

- · 10' spanning capability
- Heavy load capability
- Clear & black anodized finish
 Internal splices available



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans up to 12 feet for commercial applications.

- · 12' spanning capability
- Extreme load capability
- Clear anodized finishInternal splices available

Rail Selection

The table below was prepared in compliance with applicable engineering codes and standards.* Values are based on the following criteria: ASCE 7-16, Gable Roof Flush Mount, Roof Zones 1 & 2e, Exposure B, Roof Slope of 8 to 20 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed certification letters.

Lo	ad	Rail Span					
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'
None	90						
	120						
	140	XR10		XR100		XR1000	
	160						
20 12	90						
	120						
	140						
	160						
30	90						
	160						
40	90						
	160						
80	160						
120	160						

*Table is meant to be a simplified span chart for conveying general rail capabilities. Use approved certification letters for actual design guidance.

CONTRACTOR

AUSTIN PLUMBING HEATING AIR & ELECTRIC

ADDRESS: 530 NORTON DRIVE HARTLAND, WI 53029 UNITED STATES darren@teamaustin.com License#: 172292

DESIGNER:GREENWORLD
RENEWABLES

DESIGNER SIGNATURE:



SPUSTA RESIDENCE

6321 OAKLAND HILLS RD, NASHOTAH, WI 53058

> APN:CHQV0402987 DATE:4/11/2024

> > SHEET S-7



Date: May 6, 2024 **Meeting Date & Time:** Monday, May 13th at 6:00 p.m.

To: Plan Commission, Village of Chenequa

From: Planning Department

Subject: Site Plan Review

Owner: Michael Kelly

Location: 4667 N Pine Meadows Lane

Project Description: Review non-conforming landscaping project

Zoning District: Residence District – Lot Abutting Lake

Dear Village Board of Trustees,

During a routine site inspection, I was made aware of a zoning violation on Mr. Kelly's property at 4667 N Pine Meadows Lane. Onsite, I discovered three separate retaining walls that were constructed during the winter months without obtaining proper Village approvals.

Following my site visit, a certified letter was sent to Mr. Kelly's residence. A copy of this letter is attached in the packet for your review.

Mr. Kelly was instructed to;

- 1.) Immediately install erosion control (Completed)
- 2.) Develop a remediation plan to present to the Village Plan Commission and Board of Trustees

Included in your packets, Mr. Kelly has indicated the location of the retaining walls that were recently installed (in red) and the location of existing walls (in black). Currently, Mr. Kelly wishes for the retaining walls to remain and is not proposing an alternate solution.

It is my interpretation that these walls are structures, two of which currently impede on the 75' setback of the ordinary high-water mark. The allowable structures within the shoreland buffer zone are outlined in 6.5(4)(a)(i). I do not believe retaining walls are currently permissible under Chenequa zoning code.

If Mr. Kelly chooses to pursue keeping the retaining walls, he must proceed with the Village Board of Appeals to either challenge the Zoning Administrator's interpretation on the code or ask for a variance.

c: Dan Neumer, Administrator Deanna Braunschweig, Clerk Paul Launer, Lake Country Inspections Michael Kelly, Owner Cody Lincoln, Zoning Administrator



Village of Chenequa

Daniel R. Neumer Administrator/Chief 31275 W County Road K Chenequa, WI 53029

February 26, 2024

Michael Kelly 4667 N Pine Meadows Lane Hartland, WI 53029

Dear Mr. Kelly,

During a site visit to your property located at 4667 N Pine Meadows Lane following the issuance of a cutting permit, we observed an extensive amount of landscape work had been completed on your property without proper approvals. The following items were found to have been completed without permits.

- 1.) Grading activities near the lake are currently in progress.
- 2.) Retaining walls were illegally installed.

Of the items listed above, the following shall be corrected as they are not currently in compliance with Chenequa Village Ordinance.

- 1.) The newly installed retaining walls encroach on the 75' setback from Pine lake.
 - a. 6.3(46) defines a structure as "Anything permanently placed on or in the ground for any use whatsoever; including but not limited to any new or existing building, fences, pillars, gated entrances requiring a permit under Section 5.19 and recreational facilities. Private driveways shall not be considered to be structures."
 - b. 6.5(4)(a)(i)(B) lists the allowable structures within this setback. Within the area located between the thirty (30) foot line referred to in (A) above and a line seventy-five (75) feet from the lake frontage and parallel thereto there may be constructed and maintained uncovered terraces, patios, one (1) uncovered stairway, ground level marine railways, below-ground water pumping facilities, and one (1) uncovered walkway located at or beneath the ground level.
- 2.) Erosion Control measures specified in 5.18 have not been followed and must be put into place in order to prevent sediment from flowing into Pine Lake.

As previously stated, no permits to do this work have been applied for. This is in violation of local ordinance. You must now apply for an after-the-fact permit from the Village of Chenequa. This permit

application shall include detailed plans outlining your proposed plan of remediation. Fines and penalties may apply even if the permit is approved.

The plans you submit will be reviewed by the Plan Commission and Village Board. If they feel that your proposed modifications sufficiently resolves the problem, you may proceed with the project. Item #2 of the above listed nonconformities shall be corrected within 5 business days of the date on this letter. Failure to comply with this order shall result in the Village moving forward with all necessary action outlined in Chapter 6.10 (Violation, Penalty) to bring the site into compliance.

Sincerely,

Cody Lincoln

Zoning Administrator/Village Forester

cc: Jo Anne Villavicencio- Village President

Dan Neumer, Administrator Deanna Braunschweig, Clerk

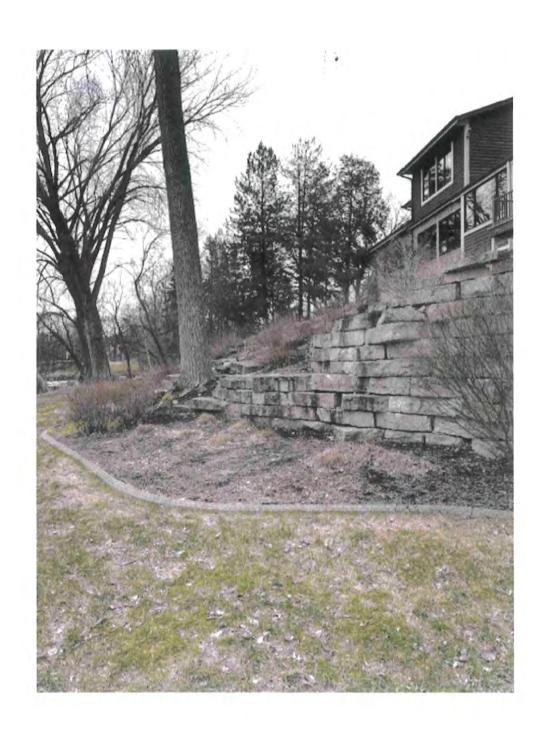
Paul Launer, Lake Country Inspections

LAKE PINE T'WIDE SEAWALL 10 m 3 (15+ FL = 10, 5>) GRAGE Draw Stray EXISTING DIVELLING 95.9 DRIVELLY HIGHWAY FEARE Existing retaining walls in black
New retaining walls in red - 15. H DWELLAND S/8/97 TO SHOW EXISTING

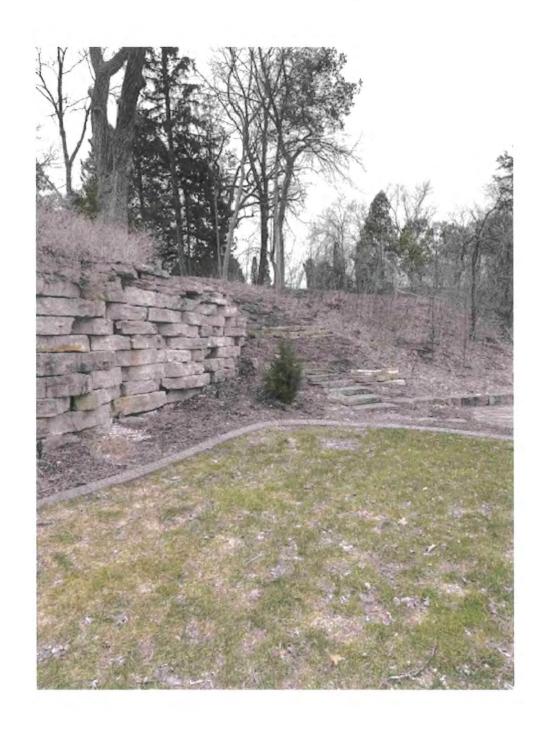
New retaining walls and north walkway



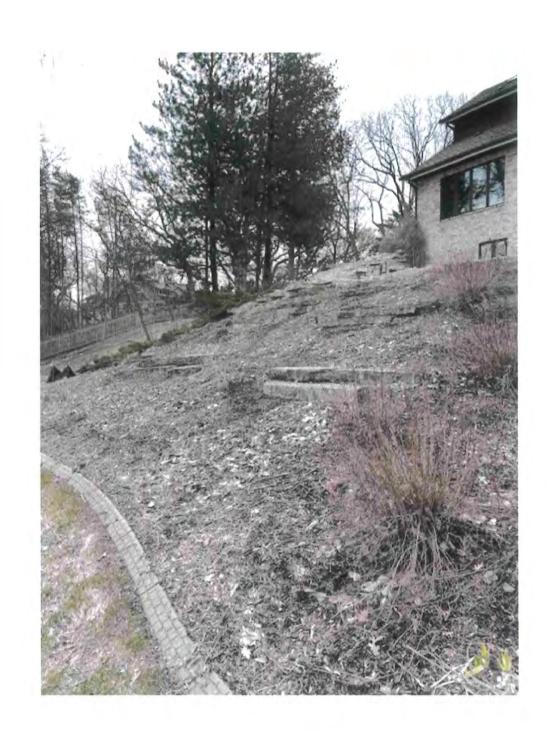
Existing retaining walls



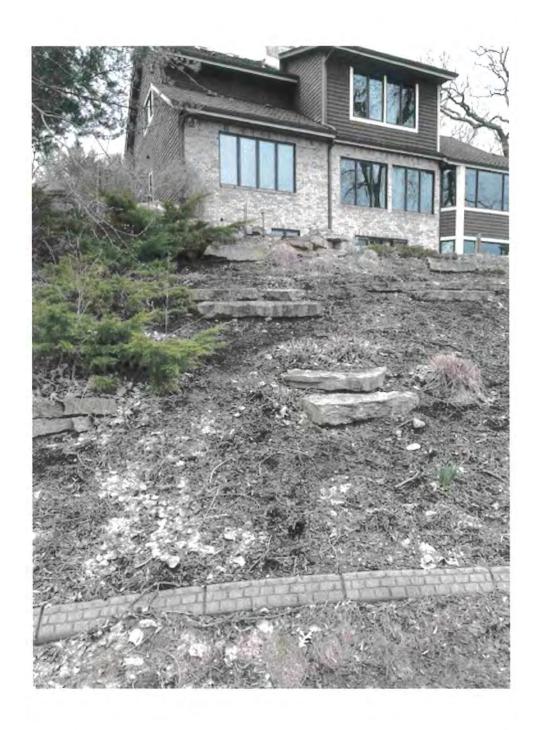
Existing retaining wasts and south stairway

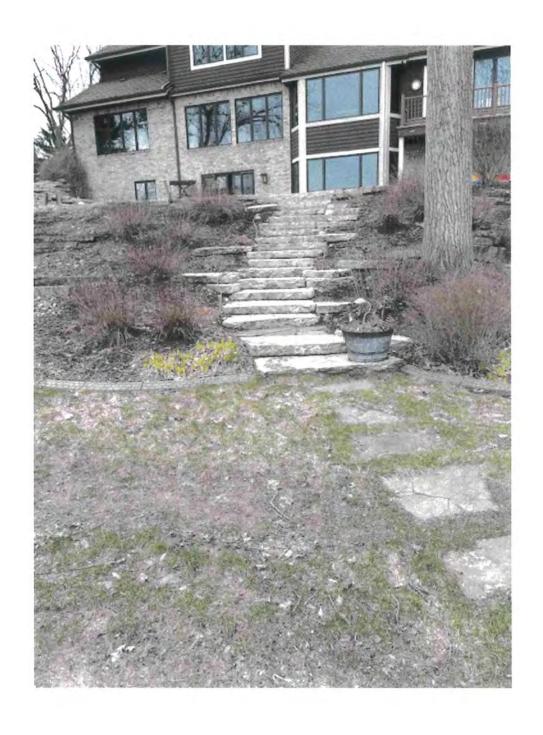


Existing retaining walls



Existing retaining Walls





NOTICE OF INTENT TO CREATE A QUIET ZONE

The Village of Chenequa, Wisconsin is making no ca f its intent to create a New Railroad Crossing Quiet Zone within its corporate limits.

This No e of Intent to create a Quiet Zone is made in accordance with the Final Rule of the Federal Railroad Administra blished in the Federal Register pertaining to Title 49 of the Code of Federal Regula art 222.43.

The Quiet Zone is being established by the Village of Chenequa, Wisconsin along a po on of railway line operated by Canadian Paci c Kansas City (CPKC).

QUIET ZONE DESCRIPTION:

A segment measuring 1.00 mile of railway operated by Canadian Paci c Kansas City (CPKC), along the Chicago-St. Paul Line, Watertown Subdivision, from Milepost 111.00 to Milepost 112.00, is being established as a New Quiet Zone within the Village of Chenequa, Wisconsin. The res ons would be imposed on the rou e sounding of locomo e horns at all es (24 hours a day).

There is one public grade crossing within the Quiet Zone, iden as U.S. DOT Na ighway-Rail Grade Crossing Inventory Number 39054U, which crosses Ve elson Road. Ve elson Road is a Village road operated and maintained by the Village of Chenequa, Wisconsin. No other public crossings and no private crossings exist within this Quiet Zone segment.

The public grade crossing within the Quiet Zone was recently upgraded by WISDOT and CPKC to include four quadrant gates along with the ashing lights, cient to sa fy the Supplementary Safety Measure (SSM) requirement of Title 49 of the Code of Federal Regula Part 222.39(a)(1), allowing for public authority designa of a Quiet Zone. The crossing also includes all tr c signs and pavement markings currently required in accordance with the latest provisions of the MUTCD. The only remaining improvement proposed is the installa of "No Train Horn" signs (MUTCD W10-9 signs) for each approach, which will be installed prior to when the Quiet Zone is established (they will be bagged and not visible un the Quiet Zone Establishment Date).

DOCUMENTATION OF NOTICE OF INTENT

Please submit all informa on or comments about the proposed Quiet Zone in wri g to the Village of Chenequa, Wisconsin. The name, and contact informa of the person who will act as the Village's point of contact during the quiet zone development process is as follows:

Daniel Neumer Village Administrator / Chief of Police Village of Chenequa 31275 W County Road K Chenequa, WI 53029 Telephone: (262) 367-2239

Email: chief@chenequa.org

Associate Administrator of Safety Federal Railroad Administra 1200 New Jersey Avenue Washington DC 20590

Mr. Brian Osborne Manager Public Works – US East Region CPKC 120 South 6th Street, Suite 700 Minneapolis, MN 55402

Mr. Don Vruwink Commissioner of the Commissioner of Railroads 4822 Madison Yards Way, Suite S633 Madison, WI 53705

Ms. Lisa Stern Chief of Railroads Wisconsin Department of Transporta 4802 Sheboygan Avenue, Room 701 Madison, WI 53702

Mr. Aaron Thompson Central Reporting Group Amtrak 40 Massachusetts Avenue NE Washington, DC 20002

Please send all comments or no-comment statement by June 19, 2024.



Resolution of Appreciation

Robert Bellin

WHEREAS, Robert Bellin has served the Village of Chenequa as Village Trustee from April 2014 to April 2024 and has served as a committee member for the Public Safety Committee, Operations Committee, Plan Commission, Lake Country Fire and Rescue Board, and Hwy 83 Task Force during this same period of time. Robert joined and served on the Chenequa Fire Department since 1975; and,

WHEREAS, he has devoted much valuable time and personal attention to the work and duties as Trustee for the Village Board and as a committee member for the many committees on behalf of the citizens of Chenequa, continually having met his responsibilities with purpose and dedication; and,

WHEREAS, the citizens of Chenequa recognize and deeply appreciate the time and service he contributed to the preservation and improvement of the quality of life in our community; and,

NOW, THEREFORE, BE IT RESOLVED that the Village Board of the Village of Chenequa, Wisconsin, hereby express their profound gratitude on behalf of the citizens of Chenequa to Robert Bellin for his loyal and faithful public service he has given by means of this resolution, which shall be spread upon the permanent records of the Village Board.

Adopted by the Village Board of Chenequa this 13th day of May 2024.

Jo Ann F. Villavicencio Village President