Permit #: 1712
Permit Date: 09/30/25
Permit Type:
Permit Type: Conditional Use Non-Residential
Bath Township Permit Number:
Applicant Name: Jessica Troyer
Company Name:
Applicant Address: 5555 Co Rd 203 Sutie C1
City, State, Zip:
Applicant Phone Number: 8667630075
Applicant Email Address: installations@esolar.us
Description: W/Variances
Project Cost: 0
Existing Square Feet: 0
Additional Square Feet: 0
Front Setback: 0
Side Setback (L): 0
Side Setback (R): 0
Rear Setback: 0
Setback from Principle Structure: 0
Height: 0.00
Zoning District: R-2
Public Health Approval:
Status: Pending
Approved Date:
BZA: Pending
ARC:
Notes:
Status: Pending
Assigned To:

Property

Parcel #	Address	Legal Description	Owner Name	Owner Phone	Zoning
0400460	1019 CLEVELAND MASSILLON RD	SV-LOT 55 SW W OF W OF RD 3.290A	CHELOVITZ CHRISTOPHER M CO TRUSTEE		

Plan Reviews

Date	Review Type	Description	Assigned To	Review Status
11/18/2025	Board of Zoning Appeals (BZA)	BZA-25-27 requesting CU and variances for sq ftg, setback and height for ground mtd solar panes.	Beth Reinart	Pending

Fees

Fee	Description	Notes	Amount
Conditional Use (Residential)	Account 101.03.113.4.5.2510		$250.00
		Total	**$250.00**

Attached Letters

Date	Letter	Description
09/30/2025	Web Form - Zoning	

Payments

Date	Paid By	Description	Payment Type	Accepted By	Amount
10/01/2025	Francisco Alarcon	1410046			$250.00
				Outstanding Balance	**$0.00**

Uploaded Files

Date	File Name
09/30/2025	3870e587713c59426ff9fdcadc0e8c58_plan_set_-_chris_chelovitz.pdf

Bath Township Zoning

Summit County, Ohio

3864 West Bath Road - P.O. Box 1188 - Bath, Ohio - 44210-1188
Phone: 330.666.4007 - Fax: 330.666.0305
www.bathtownship.org

Zoning Variance Application

For office use only:	ARC File No.:		BZA File No.:
Associated permits:			

Applicant Data

Name: Eddie Alarcon

Company Name: EnSMARRT

Address: 5555 County Road 203 STE C1 Millersburg, OH 44654

Telephone No.: 866-763-0075 Email: installations@esolar.us

Property Data

Zoning District: (circle one) R-1 R-2 R-3 R-4 B-1 B-2 B-3 B-4 B-5

Corner Lot: ❑ Yes ❑ No Note: Corner lots are required to meet the front setback on both streets.

Property Address: 1019 N Cleveland Massillon Rd, Akron, OH 44333 Parcel No.: 0400460

Allotment Name: ______ Lot No.: ______

Owner(s): Christopher Chelovitz

Owner Address: 1019 N Cleveland Massillon Rd, Akron, OH 44333

Telephone No.: 3306872173

Variance(s) Requested

Below list the specific section from the Zoning Resolution from which the variance is being sought along with a description of each variance. The Zoning Resolution is available online at www.bathtownship.org through the zoning link.

1. Section: 701 Description: Rear setback of 10 ft

2. Section: 701 Description: Bigger size in sqaure feet of addition (ground mounts).
Ground Mount #1- 512 sq ft Ground Mount #2 - 437 sq ft

3. Section: 701 Description: ______

4. Section: ______ Description: ______

Contiguous Property Owners

The Township will notify all property owners within a 300' buffer of the parcel in question.

Required Site Plan Data and Architectural/Construction Drawings

1. Six (6) copies of site plan and plans along with a digital copy (ex: .pdf) of site plan and plans (11 x 17 preferred). The site plan must show the following:
   - ❑ A North arrow and scale
   - ❑ Existing structures and dimensions
   - ❑ Driveway and road access locations (existing and/or proposed)
   - ❑ Proposed structure(s) and dimensions
   - ❑ All setbacks
   - ❑ Roads
   - ❑ Lot dimensions
   - ❑ Easements and details
   - ❑ Septic system and well location (if applicable)
   - ❑ Indicate the location of lakes, ponds, wetlands, ravines, or other unusual topography
   - ❑ Riparian Corridor(s) must be clearly indicated on all lots containing applicable watercourses
   - ❑ All slopes greater than 18% must be indicated on a two (2) foot contour interval map with the contours extending at least 100 feet beyond the lot lines

2. If applicable, Six (6) copies of the building/construction plans along with a digital copy (ex: .pdf) showing major details including height data must be submitted with the application (11 x 17 preferred).

3. The "Bath Township Area Variance Supplemental Form" shall be filled out completely for each variance requested.

4. Digital copy of all required documents (i.e. emailed .pdf file)

Applicant Certification

Applicant Signature: Jessica Troyer Date: 10/15/25

Fee – due at time of application (make check payable to *Bath Township Trustees*)

- for residential applications – two hundred and fifty dollars ($250.00)
- for commercial/business applications – three hundred and fifty dollars ($350.00)
- for major subdivisions or use variances – five hundred dollars ($500.00)

For Office Use Only

Appearance Review Commission File No.: ARC - -

Board of Zoning Appeals File No.: BZA - -

Hearing Date: ________________ Public Notice Date: ________________

Published In: ________________________ Abutting Property Owners Notification Date: ______________

❑ Approved ❑ Approved with Conditions ❑ Denied

Comments: ____

____

Zoning Inspector Signature: ____ Date: ______________

Bath Township Area Variance Supplemental Form

Project Overview

Provide an overview of the project:

Ground Mounted Solar System consisting of two different solar arrays.

Practical Difficulties

The following factors shall be considered and weighed by the BZA to determine practical difficulty. If a factor is not applicable, please note that factor as "Not Applicable":

A. Explain special conditions or circumstances that exist which are peculiar to your land or structure involved and which are not applicable generally to other lands or structures in the same Zoning District. (Examples of this are: exceptional irregularity, narrowness, shallowness or steepness of the lot, or adjacency to nonconforming and inharmonious uses, structures or conditions):

For this project we need to find an area without shade in order to produce the correct amount of electricity needed.

B. Explain how the property in question would not yield a reasonable return on investment or there could not be any beneficial use of the property without the variance.

With the current cost of electricity and historical yearly price increases a ground mounted solar system is needed to offset future electricity production.

A solar system's electric production is dependent on the amount of sun the solar panels receive. The requested location is the has the best solar access without comprimizing the aesthetics of the property.

C. Explain whether the variance is substantial or not:

This variance will provide the space needed to make this investment profitable for several decades.

D. Explain whether the essential character of the neighborhood would be substantially altered or if adjoining properties would suffer a substantial detriment as a result of the variance.

There are trees surrounding adjacent properties, making the solar system not visable except from the property that it's in. By putting it against the trees in the back, it's also less visable.

E. Explain whether the variance would adversely affect the delivery of governmental services (e.g., water, sewer, garbage, fire, street services,).

Not applicable

F. Did the applicant purchase the property with or without knowledge of the applicable zoning restriction?

Without knowledge

G. Explain whether the special conditions or circumstances (listed in response to question A above) were a result of actions of the applicant or prior owners.

Not applicable

H. Demonstrate whether the applicant's predicament feasibly can be resolved through a method other than a variance (e.g., a zone-conforming but unworkable example, or by minimizing the variance).

There is no other location where the resident can install this solar system needed to offset electrical consumption. As the trees surrounding the properties shade other areas.

I. Explain whether the spirit and intent behind the zoning requirement would be observed and/or substantial justice done by granting the variance.

The solar system will be installed in the best location, with the goals of concealment and production in mind. With a main goal of perserving the properties integrety as much asa possible.

**No single factor listed above may control, and not all factors may be applicable in each case. Each case shall be determined on its own facts.*

PHOTOVOLTAIC GROUND MOUNT SYSTEM

52 MODULES - SYSTEM SIZE STC (21.32 kW DC / 19.97 kW AC)

1019 N CLEVELAND MASSILLON RD, AKRON, OH 44333, USA (41.1635712, -81.6344023)

SYSTEM SUMMARY STC (21.32 kW DC / 19.97 kW AC)

STC DC: (52) 410W = 21.32 kW
STC AC: (52) 384W = 19.97 kW

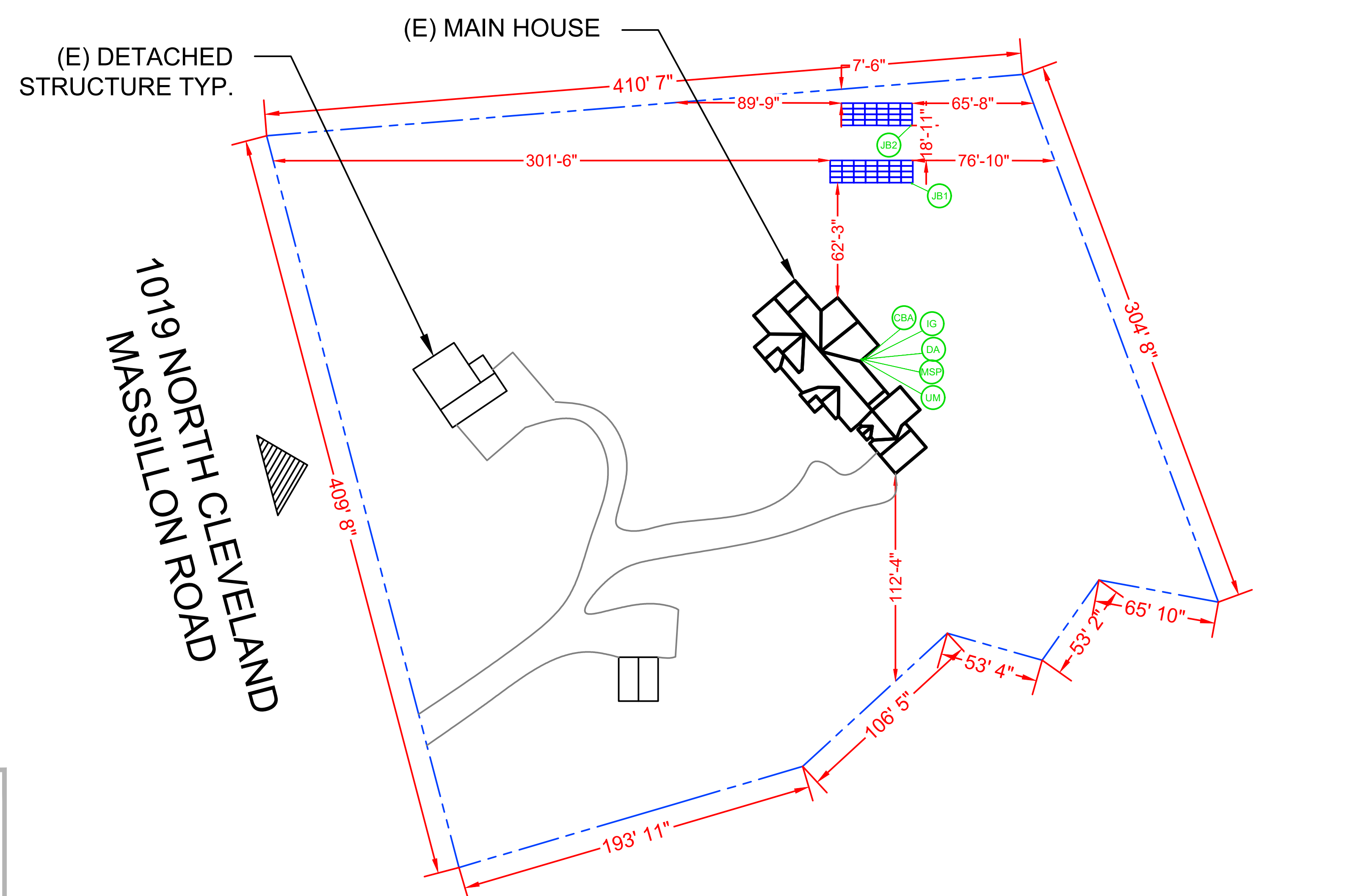
- (52) HYUNDAI ENERGY SOLUTIONS CO., LTD. HIS-S410YH(BK) MODULES
- (52) ENPHASE ENERGY INC. IQ7HS-66-M-US (240V) MICROINVERTERS

- 2x BRANCHES OF 9 CONNECTED IN PARALLEL
- 1x BRANCH OF 10 CONNECTED IN PARALLEL
- 3x BRANCHES OF 8 CONNECTED IN PARALLEL

GOVERNING CODES

- 2017 OHIO FIRE CODE
- 2019 RESIDENTIAL CODE OF OHIO
- 2024 OHIO BUILDING CODE
- 2023 NFPA 70 - NATIONAL ELECTRICAL CODE

AHJ: SUMMIT (COUNTY OF), OHIO
UTILITY: OHIO EDISON CO



LEGEND

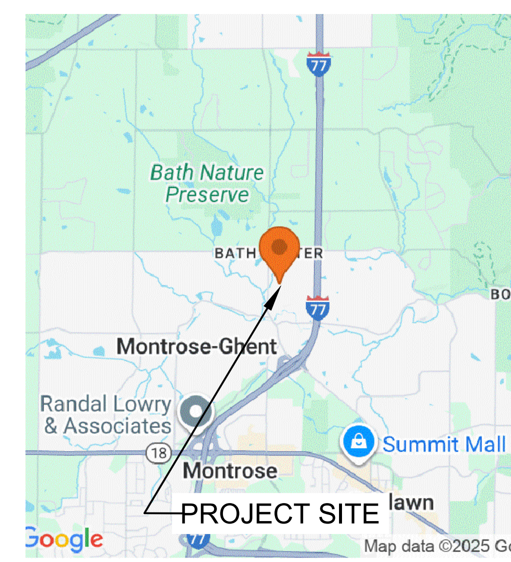
	NEW PV MODULE		FENCE
	FRONT OF HOUSE		GATE
	DIMENSIONS		DRIVEWAY
	PROPERTY LINE		POOL
	OBSTRUCTION	IG	IQ GATEWAY (NEW)
JB1	AC JUNCTION BOX (NEW)	DA	AC DISCONNECT FUSED (NEW)
JB2	AC JUNCTION BOX (NEW)	MSP	MAIN SERVICE PANEL (EXISTING, 200A)
CBA	AC COMBINER PANEL (NEW)	UM	UTILITY METER (EXISTING)

SITE PLAN

SCALE: 1/88" = 1'-0"

HOUSE PHOTO

SCALE: NTS



VICINITY MAP

SCALE: NTS

N

CONTRACTOR: FDJ ENTERPRISES LLC DBA ENSMARRT
ADDRESS: 5555 COUNTY ROAD 203 SUITE C1
MILLERSBURG, OHIO 44654
PHONE: 8667630075
EMAIL: savings@ensmarrt.com
LICENSE #: 26969
ELECTRICAL LICENSE #: 26969

REVISIONS

DESCRIPTION	DATE	REV

SIGNATURE & SEAL

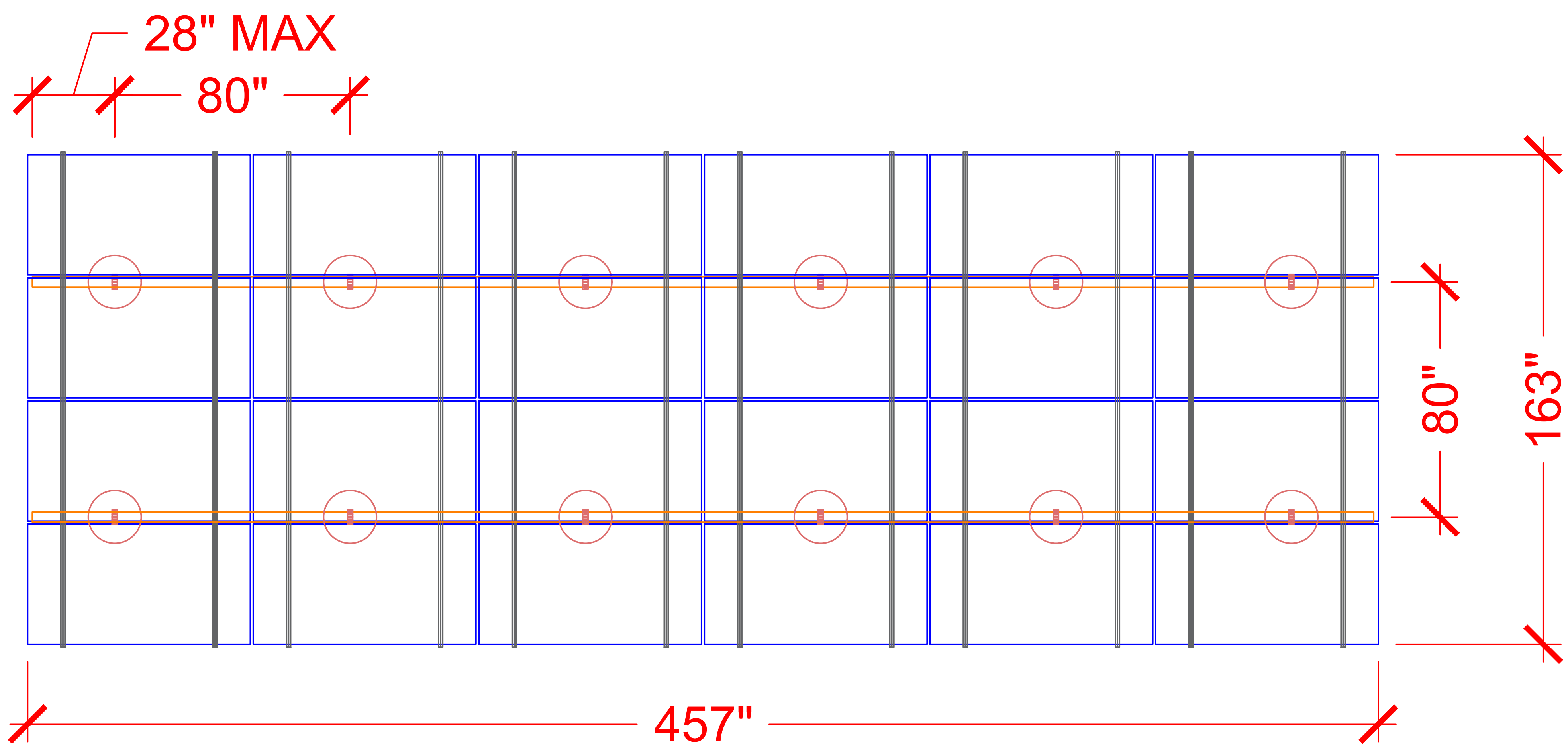
HOMEOWNER INFO

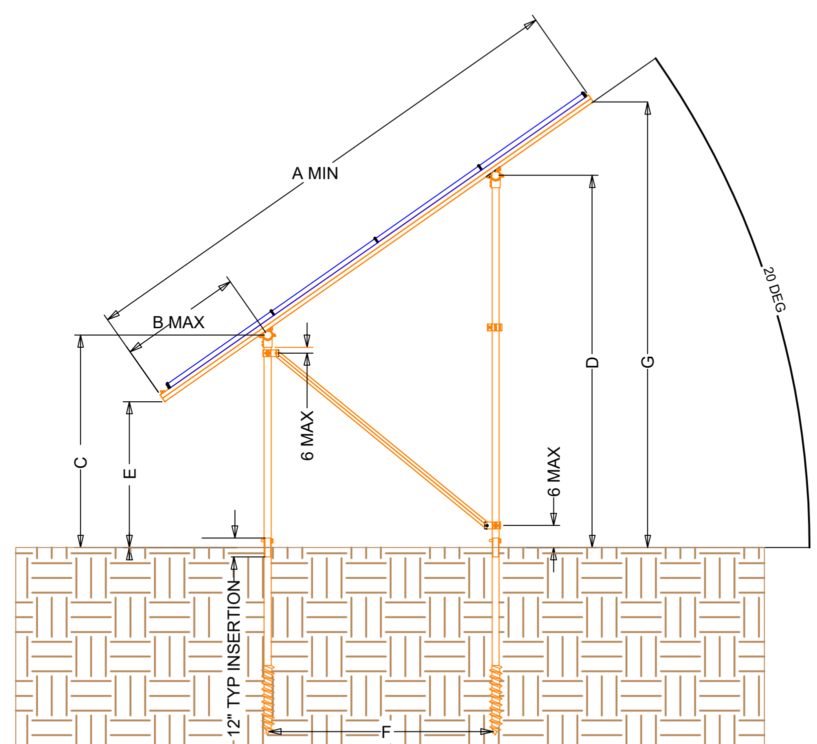
CHRIS CHELOVITZ
1019 N CLEVELAND MASSILLON RD,
AKRON, OH 44333, USA
APN: 0400460
PHONE: +13306872173
EMAIL: CHELOVITZ@YAHOO.COM

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER

ARRAY-#2





DIMENSIONS IN INCHES	
A	168.0
B	38.0
C	31.0
D	77.0
E	18.0
F	80.0
G	95.0

GROUND SCREW = 63"

RACKING DETAIL

SCALE: NTS

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MILLERSBURG, OHIO 44654
PHONE: 8667630075
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AKRON, OH 44333, USA
APN: 0400460
PHONE: +13306872173
EMAIL: CHELOVITZ@YAHOO.COM

SHEET NAME

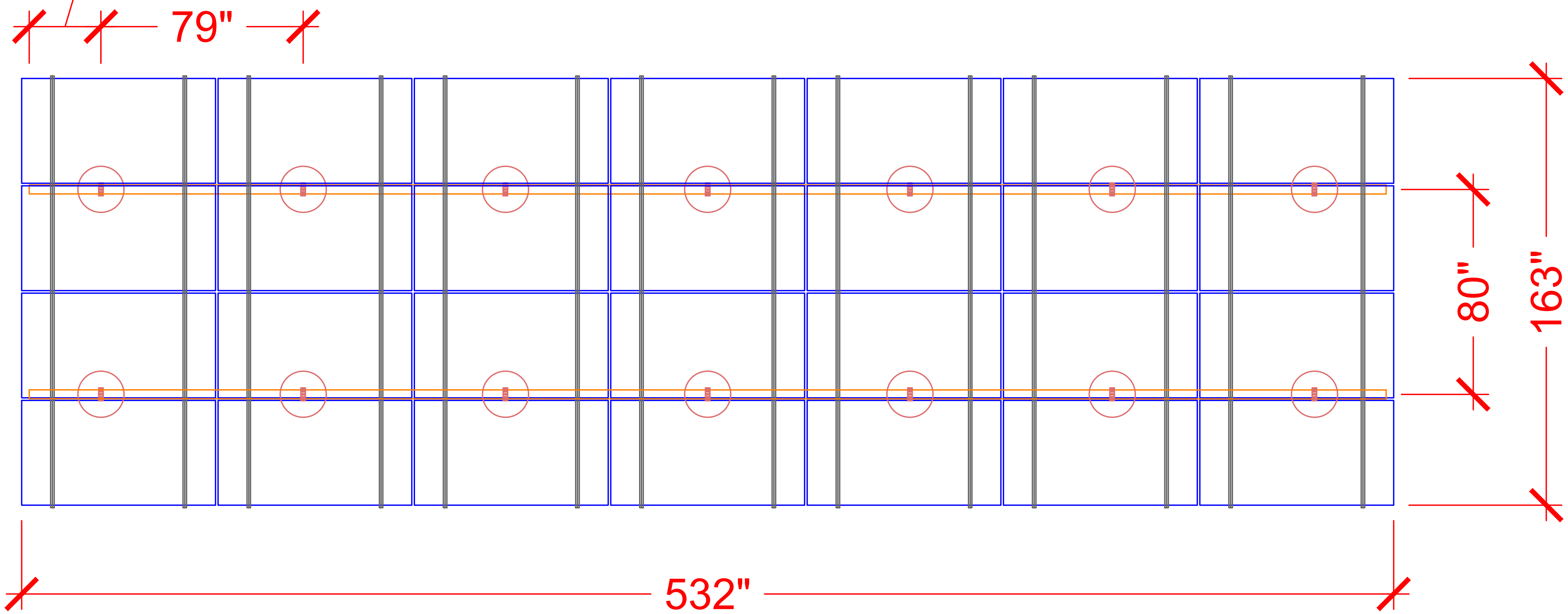
RACKING DETAIL

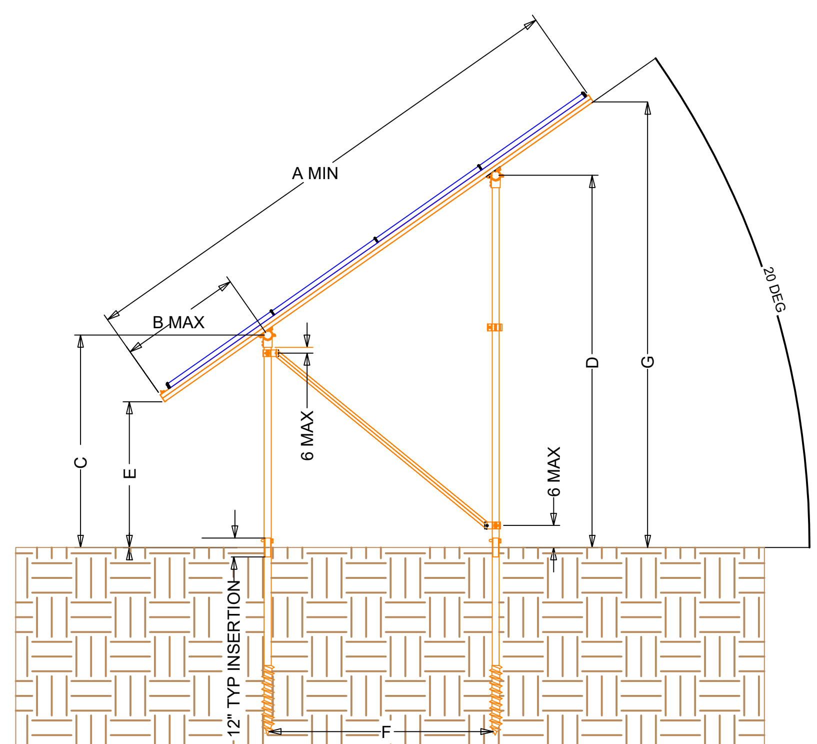
SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

ARRAY-#1





DIMENSIONS IN INCHES	
A	168.0
B	38.0
C	31.0
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GROUND SCREW = 63"

RACKING DETAIL

SCALE: NTS

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EMAIL: CHELOVITZ@YAHOO.COM

SHEET NAME

RACKING DETAIL

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

SYSTEM SUMMARY STC (21.32 kW DC / 19.97 kW AC)

STC DC: (52) 410W = 21.32 kW
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- (52) HYUNDAI ENERGY SOLUTIONS CO., LTD. HIS-S410YH(BK) MODULES
- (52) ENPHASE ENERGY INC. IQ7HS-66-M-US (240V) MICROINVERTERS

- 2x BRANCHES OF 9 CONNECTED IN PARALLEL
- 1x BRANCH OF 10 CONNECTED IN PARALLEL
- 3x BRANCHES OF 8 CONNECTED IN PARALLEL

INTERCONNECTION 120% RULE
(MAIN PANEL)

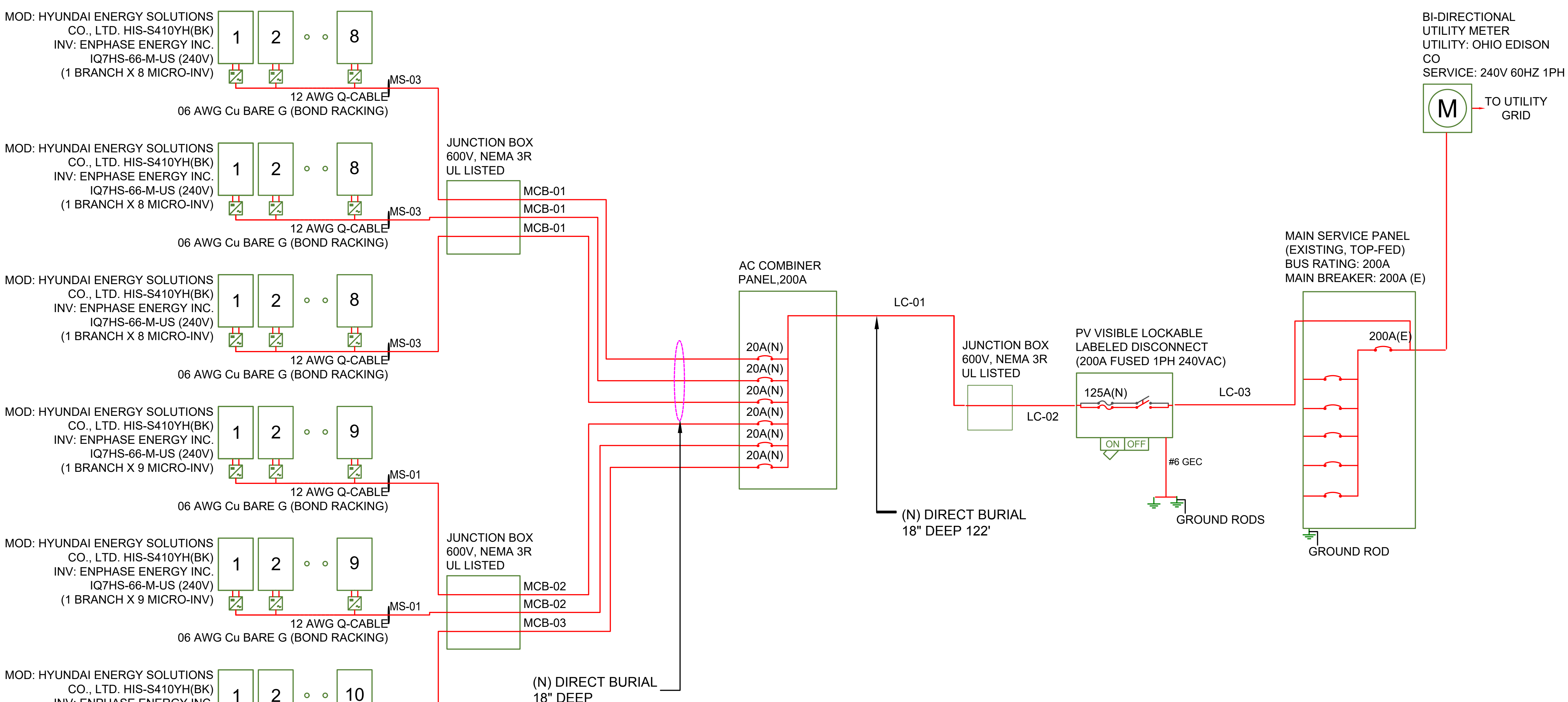
INTERCONNECTION
120% RULE
NOT APPLICABLE

LINE-SIDE TAP DOES NOT AFFECT
MAIN PANEL

EXTREME CASE MODULE OUTPUT
(HYUNDAI ENERGY SOLUTIONS CO., LTD. HIS-S410YH(BK))

Isc(25°C) = 11.40A, Tisc = 0.032%/°C
Isc(T) = Isc(25°C) x [1 + Tisc x (T-25°C)]
Isc(-19°C) = 11.24A, Isc(31°C) = 11.42A

Voc(25°C) = 45.90V, Tvoc = -0.268%/°C
Voc(T) = Voc(25°C) x [1 + Tvoc x (T-25°C)]
Voc(-19°C) = 51.31V, Voc(31°C) = 45.16V



AC wire details							
Wire	Min Ampacity	Live	Neutral	Ground		Min PVC	
MS-01	18.00A	12 AWG (Q-Cable)	-	06 AWG BARE (NOT IN CONDUIT)	-	-	-
MS-02	20.00A	12 AWG (Q-Cable)	-	06 AWG BARE (NOT IN CONDUIT)	-	-	-
MS-03	16.00A	12 AWG (Q-Cable)	-	06 AWG BARE (NOT IN CONDUIT)	-	-	-
MCB-01	16.00A	(2) 10 AWG UF-B	-	10 AWG THWN-2	-	-	-
MCB-02	18.00A	(2) 10 AWG UF-B	-	10 AWG THWN-2	-	-	-
MCB-03	20.00A	(2) 10 AWG UF-B	-	10 AWG THWN-2	-	-	-
LC-01	104.00A	(2) 1/0 AWG-URD	-	02 AWG URD			
LC-02	104.00A	(2) 1/0 AWG-SE		02 AWG URD			
LC-03	104.00A	(2) 1/0 AWG-SE	1/0 AWG-SE				

ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NTS

SOLAR

CONTRACTOR: FDJ ENTERPRISES LLC DBA ENSMARRT
ADDRESS: 5555 COUNTY ROAD 203 SUITE C1
MILLERSBURG, OHIO 44654
PHONE: 8667630075
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DESCRIPTION	DATE	REV

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AKRON, OH 44333, USA
APN: 0400460
PHONE: +13306872173
EMAIL: CHELOVITZ@YAHOO.COM

SHEET NAME

SINGLE LINE DIAGRAM

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

WARNING

ELECTRICAL SHOCK HAZARD

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

LABEL LOCATION: INVERTERS, DC & AC DISCONNECTS, DC & AC COMBINER PANELS (IF APPLICABLE)
CODE REF: NEC 2023 - 690.13(B), NEC 2023 - 705.20(7), NEC 2023 - 706.15(C)

WARNING

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: MSP
CODE REF: NEC 2023 - 705.12(B)(3)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION: UTILITY INTERCONNECTION DISCONNECT (MSP OR AC DISCONNECT), AND WHEREVER REQUIRED BY AHJ (DC DISCONNECTS, INVERTERS)
CODE REF: NEC 2023 - 690.19(D)(2)

PV SYSTEM DISCONNECT

MAXIMUM AC OPERATING CURRENT: 83.20 AMPS
NOMINAL OPERATING AC VOLTAGE: 240 VAC

LABEL LOCATION: AC DISCONNECTS, PV POINT OF INTERCONNECTION
CODE REF: NEC 2023 - 690.13(B)

PHOTOVOLTAIC

AC DISCONNECT

LABEL LOCATION: AC DISCONNECT, PV BACKFEED BREAKER/POINT OF INTERCONNECTION
CODE REF: NEC 2023 - 690.13(B)

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

LABEL LOCATION: INTERCONNECTION DISCONNECT FOR UTILITY ACCESS
CODE REF: NEC 2023 - 690.13(B)

CAUTION: MULTIPLE POWER SOURCES

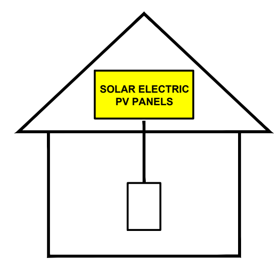
LABEL LOCATION: MSP & UTILITY METER (IF SEPARATE)
CODE REF: NEC 2023 - 705.10

WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION: POINT OF INTERCONNECTION (PER NEC), UTILITY METER (IF SEPARATE) & PRODUCTION METER (IF REQUIRED BY AHJ/UTILITY)
CODE REF: NEC 2023 - 705.12(C)

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: INTERCONNECTION POINT (MSP OR AC DISCONNECT IF LINE SIDE TAP)
CODE REF: NEC 2023 - 690.12(D)

NOTES AND SPECIFICATIONS

1) SIGNS AND LABELS SHALL MEET THE REQUIREMENTS OF THE 2023 ARTICLES NEC 110.21(B), UNLESS SPECIFIC INSTRUCTIONS ARE REQUIRED BY SECTION 690, OR IF REQUESTED BY THE LOCAL AHJ.
2) SIGNS AND LABELS SHALL ADEQUATELY WARN OF HAZARDS USING EFFECTIVE WORDS, COLORS AND SYMBOLS.
3) LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HAND WRITTEN.
4) LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
5) SIGNS AND LABELS SHALL COMPLY WITH ANSI Z535.4 - 2011, PRODUCT SAFETY SIGNS AND LABELS, UNLESS OTHERWISE SPECIFIED.
6) DO NOT COVER EXISTING MANUFACTURER LABELS.

SOLAR

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EMAIL: CHELOVITZ@YAHOO.COM

SHEET NAME

PLACARDS

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

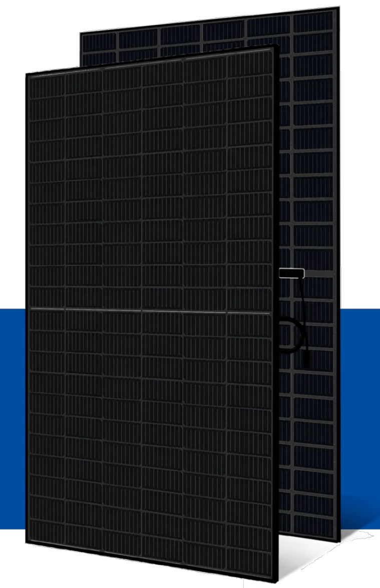
HYUNDAI SOLAR MODULE

YH SERIES

Dual Black Max

HiS-S385YH(BK) HiS-S390YH(BK) HiS-S395YH(BK)
HiS-S400YH(BK) HiS-S405YH(BK) HiS-S410YH(BK)

25 YR WARRANTY Product & Performance



Bifacial Cells **132**

More Power Generation In Low Light

UL 1,500V IEC 1,500V Saves BOS Costs

All black Module For Sleek Design (Black Meshed T-Back sheet)

Maximized Power Generation

Increased total power output through capturing light from both the front and back of Bifacial solar modules. Back side power gain up to 25% of the front output depending on PV system design.

Half-Cut & Multi-Wire Technology

9 Wires

Improved current flow with half-cut technology and 9 thin wiring technology allows high module efficiency of up to 20.5%. It also reduces power generation loss due to micro-cracks.

Anti-LID / PID

Both LID(Light Induced Degradation) and PID(Potential Induced Degradation) are significantly reduced to ensure higher actual yield during lifetime.

Mechanical Strength

Tempered glass and reinforced frame design withstand rigorous weather conditions such as heavy snow(5,400Pa) and strong wind(4,000Pa).

UL / VDE Test Labs

Hyundai's R&D center is an accredited test laboratory of both UL and VDE.

Reliable Warranty

Global brand with powerful financial strength provide reliable 25-year warranty.

Hyundai's Warranty Provisions

25 YEARS
- 25-Year Product Warranty
  - Materials and workmanship

25 YEARS
- 25-Year Performance Warranty
  - Initial year : 98.0%
  - Linear warranty after second year: with 0.54%p annual degradation, 85.0% is guaranteed up to 25 years

About Hyundai Energy Solutions

Established in 1972, Hyundai Heavy Industries Group is one of the most trusted names in the heavy industries sector and is a Fortune 500 company. As a global leader and innovator, Hyundai Heavy Industries is committed to building a future growth engine by developing and investing heavily in the field of renewable energy.

As a core energy business entity of HHI, Hyundai Energy Solutions has strong pride in providing high-quality PV products to more than 3,000 customers worldwide.

Certification

US LISTED
· UL61730 certified by UL, Type 1(for Fire Class A)

Printed Date : 03/2022(final)

www.hyundai-es.co.kr

HYUNDAI ENERGY SOLUTIONS

Electrical Characteristics

		Mono-Crystalline Type(HiS-S____YH(BK))					
		385	390	395	400	405	410
Nominal Output (Pmpp)	W	385	390	395	400	405	410
Open Circuit Voltage (Voc)	V	44.5	44.8	45.0	45.3	45.6	45.9
Short Circuit Current (Isc)	A	11.04	11.11	11.18	11.25	11.33	11.40
Voltage at Pmax (Vmpp)	V	37.1	37.3	37.5	37.7	37.9	38.1
Current at Pmax (Impp)	A	10.40	10.47	10.54	10.61	10.69	10.76
Module Efficiency	%	19.3	19.5	19.8	20.0	20.3	20.5
Cell Type	-	Mono crystalline, 9busbar					
Maximum System Voltage	V	1,500					
Temperature Coefficient of Pmax	%/K	-0.347					
Temperature Coefficient of Voc	%/K	-0.268					
Temperature Coefficient of Isc	%/K	+0.032					

*All data at STC (Measurement tolerances Pmpp ±3%; Isc ; Voc ±3%). Above data may be changed without prior notice.

Additional Power Gain from rear side		385	390	395	400	405	410
5%	W	399	404	410	415	425	431
15%	W	437	443	449	454	466	472
25%	W	475	482	488	494	506	513

Mechanical Characteristics

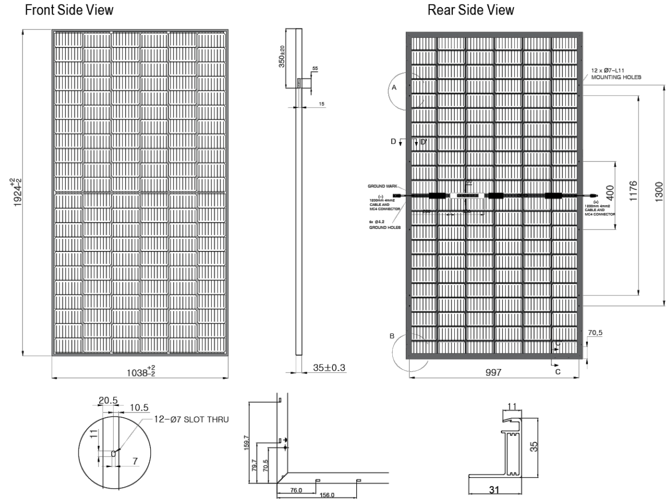
Dimensions	1,038 mm (W) x 1,924 mm (L) x 35 mm(H)
Weight	Approx. 21.1 kg
Solar Cells	132 half cut bifacial cells (2 parallel x 66 half cells in series)
Output Cables	Cable : 1,200mm / 4mm² Connector : MC4 genuine connector
Junction Box	IP68, weatherproof, IEC certified (UL listed)
Bypass Diodes	3 bypass diodes to prevent power decrease by partial shade
Construction	Front : 3.2mm, High Transmission, AR Coated Tempered Glass Encapsulant : EVA I Back Sheet : Black Meshed Transparent Backsheet
Frame	Anodized aluminum alloy type 6063

Installation Safety Guide

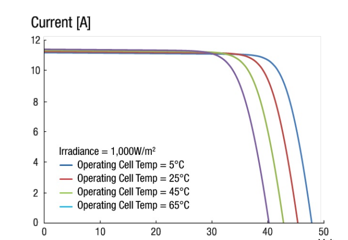
- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

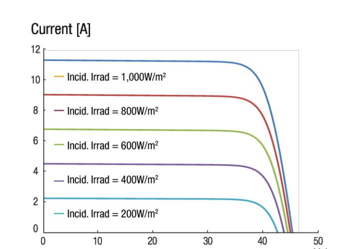
Nominal Operating Cell Temperature	45.5°C ± 2
Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	DC 1,500V
Maximum Reverse Current	20A
Maximum Test Load	Front 5,400 Pa (113psf) Rear 4,000 Pa (84psf)

Module Diagram (unit : mm)



I-V Curves





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HYUNDAI ENERGY SOLUTIONS

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ELECTRICAL LICENSE #: 26969

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DESCRIPTION	DATE	REV

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HOMEOWNER INFO

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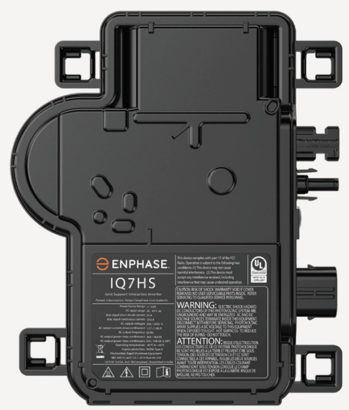
SHEET NAME
EQUIPMENT SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER

ENPHASE. DATA SHEET

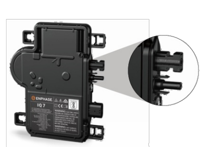


IQ7HS Microinverter

The high-powered, smart grid-ready IQ7HS Microinverter with integrated MC4 connectors dramatically simplifies installation while achieving the highest system efficiency.

Part of the Enphase Energy System, the IQ7HS Microinverters integrate with the IQ Gateway, IQ Battery, and the Enphase Installer App monitoring and analysis software.

IQ7HS Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Connect PV modules quickly and easily to the IQ7HS Microinverters that have integrated MC4 connectors.

CERTIFIED SAFETY

IQ7HS Microinverters are UL Listed as PV rapid shutdown equipment and conform with various regulations when installed according to the manufacturer's instructions.

Easy to install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 , 2017, 2020, and 2023)

Productive and reliable

- Optimized for high powered 60-cell/120-half-cut-cell, 66-cell/132-half-cut-cell, and 72-cell/144-half-cut-cell PV modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL Listed

Smart grid-ready

- Complies with advanced grid support, voltage, and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB, 3rd Ed.) for single-phase systems

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IQ7HS Microinverter

INPUT DATA (DC)	UNITS	IQ7HS-66-M-US
Commonly used module pairings[1]	W	320–460
Module compatibility	—	60-cell/120-half-cut-cell, 66-cell/132-half-cut-cell, and 72-cell/144-half-cut-cell PV modules
Maximum input DC voltage	V	59
Peak power tracking voltage	V	38–43
Operating range	V	20–59
Minimum/Maximum start voltage	V	30/59
Maximum input DC short-circuit current	A	25
Maximum module I_{sc}	A	20
Overvoltage class DC port	—	II
DC port back-feed current	A	0
PV array configuration	—	1 × 1 ungrounded array; no additional DC side protection required; AC side protection requires max. 20 A per branch circuit
OUTPUT DATA (AC)		
Peak output power	VA	384 @ 240 VAC, 369 @ 208 VAC
Maximum continuous output power	VA	384 @ 240 VAC, 369 @ 208 VAC
Nominal (L-L) voltage/Range[2]	V	240/211–264, 208/183–229
Maximum continuous output current	—	1.60 A (240 V), 1.77 A (208 V)
Nominal frequency	Hz	60
Extended frequency range	Hz	47–68
AC short-circuit fault current over three cycles	Arms	4.82
Maximum units per 20 A (L-L) branch circuit[3]	—	10 (240 VAC), 9 (208 VAC)
Overvoltage class AC port	—	III
AC port back-feed current	mA	18
Power factor setting	—	1.0
Power factor (adjustable)	—	0.85 leading ... 0.85 lagging
EFFICIENCY		
CEC weighted efficiency	%	97.0 @ 240 V, 96.5 @ 208 V
MECHANICAL DATA		
Ambient temperature range	°C (°F)	−40 to 60 (−40 to 140)
Relative humidity range	%	4 to 100 (condensing)
DC connector type	—	Stäubli MC4
Dimensions (H × W × D)	mm (in)	212 (8.3) × 175 (6.9) × 30.2 (1.2) without bracket
Weight	kg (lb)	1.1 (2.4)
Cooling	—	Natural convection—no fans
Approved for wet locations	—	Yes
Pollution degree	—	PD3

[1] Pairing PV modules with wattage above the limit may result in additional clipping losses. See the compatibility calculator at enphase.com/installers/microinverters/calculator.
[2] Nominal voltage range can be extended beyond nominal if required by the utility.
[3] Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

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MECHANICAL DATA		
Enclosure	—	Class II double-insulated, corrosion-resistant polymeric enclosure
Environmental category/UV exposure rating	—	NEMA type 6/Outdoor

FEATURES	
Communication	Power line communication (PLC)
Monitoring	Enphase Installer App and monitoring options Compatible with IQ Gateway
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect means required by NEC 690 and C22.1-2018 Rule 64-220.
Compliance	CA Rule 21 (UL 1741-SA), IEEE 1547:2018 (UL 1741-SB 3rd Ed.) for single-phase systems HEI Rule 14H SRD 2.0 UL 62109-1, FCC Part 15 Class B, ICES-0003 Class B CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV rapid shutdown 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.

DSH-00562-1.0-EN-US-2024-08-02

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ENPHASE. DATA SHEET

IQ Gateway

The IQ Gateway delivers solar production and energy consumption data to Enphase Installer Portal monitoring and analysis software for comprehensive, remote maintenance, and management of Enphase systems.

With integrated production metering and optional consumption monitoring, the IQ Gateway is the platform for total energy management. It integrates with the IQ System Controller and IQ Battery.

Enphase 10 year limited warranty

UL LISTED

Key specifications	ENV-IQ-AM1-240, ENV2-IQ-AM1-240
AC power requirements	120/240 V, 120/208Y V, or 127/220Y V Three-wire 60 Hz
Typical power consumption	5 W
Dimensions (W × H × D)	8.4 in × 5 in × 1.8 in (21.3 cm × 12.6 cm × 4.5 cm)
Weight	1.09 lb (0.5 kg)
Enclosure environmental rating	IP30. For installation indoors or in a NRTL-certified, NEMA type 3R or better-rated enclosure, if installing outdoors

Simple

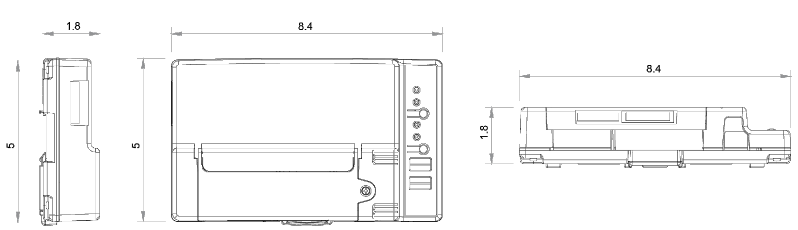
- Easy system configuration using Enphase Installer App
- Flexible networking with Wi-Fi, Ethernet, or cellular

Reliable

- Designed for installation indoors or outdoors in a NEMA 3R rated enclosure
- 5-year limited warranty
- ENV2-IQ-AM1-240 complies with IEEE 2030.5[1]

Smart

- Enables web-based monitoring and control
- Provides bidirectional communications for remote upgrades
- Supports power export limiting and zero-export applications



All dimensions in inches

[1] ENV2-IQ-AM1-240 gateway runs with IEEE 2030.5 protocol and has been used in the IEEE 1547:2018 testing and certification.

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Model number	ENV-IQ-AM1-240, ENV2-IQ-AM1-240
IQ Gateway ENV-IQ-AM1-240 ENV2-IQ-AM1-240	IQ Gateway integrates revenue-grade PV production metering (ANSI C12.20 ±0.5%), consumption metering (±2.5%), and battery metering (±2.5%) with IQ Battery 5P. Includes one 200 A continuous rated Production Current Transformer (CT).

Accessories - order separately	
Mobile Connect COMMS-CELLMODEM-M1-06 CELLMODEM-M1-06-SP-05 CELLMODEM-M1-06-AT-05 CELLMODEM-07-NA-05	Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year sprint data plan 4G based LTE-M1 cellular modem with 5-year sprint data plan 4G based LTE-M1 cellular modem with 5-year AT&T data plan LTE CAT 4 based cellular modem with 5-year AT&T and T-Mobile data plan
Consumption monitoring CT and IQ Battery 5P metering CT CT-200-SPLIT CT-200-CLAMP	Split-core and clamp-style CTs with ±2.5% accuracy enable whole home and IQ Battery 5P metering
Communications Kit COMMS-KIT-01 COMMS-KIT-02	Installed at the IQ Gateway. For communications with IQ Battery and IQ System Controller. Includes USB cable for connection to IQ Gateway or IQ Combiner and allows wireless communication with IQ Battery and IQ System Controller

Power requirements	
AC power requirements	120/240 V, 120/208Y V, or 127/220Y V. Three-wire. 60 Hz
IQ Gateway breaker	2-pole and maximum 20 A overcurrent protection required
Typical power consumption	5 W

Capacity	
Number of microinverters polled	Up to 300

Mechanical and electrical data	
Dimensions (W × H × D)	8.4 in × 5 in × 1.8 in (21.3 cm × 12.6 cm × 4.5 cm)
Weight	1.09 lb (0.5 kg)
Ambient temperature range	-40°F to 149°F (-40°C to 65°C) [ENV-IQ-AM1-240] -40°F to 122°F (-40°C to 50°C) [ENV2-IQ-AM1-240] -40°F to 115°F (-40°C to 46°C) if installed in an enclosure
Environmental rating	IP30. For installation indoors or in a NRTL-certified, NEMA type 3R or better-rated enclosure, if installing outdoors
Altitude	Up to 3,000 m (9842 feet)

Communication interfaces	
Integrated Wi-Fi	802.11 b/g/n (2.4 GHz, 5 GHz), for connecting the Enphase Cloud via the internet
Wi-Fi range (recommended)	10 m
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included), for connecting to the Enphase Cloud via the internet.
Mobile Connect	CELLMODEM-M1-06-SP-05, CELLMODEM-M1-06-AT-05 (to be purchased separately, mandatory for sites with IQ Battery), CELLMODEM-07-NA-05
Digital I/O	Digital input/output for grid operator control
USB 2.0	For Mobile Connect and Communications Kit

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SHEET NAME
EQUIPMENT SPECIFICATION

SHEET SIZE
ANSI B
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SHEET NUMBER

Communication interfaces	
Access point (AP) mode	For a connection between the IQ Gateway and a mobile device running the Enphase Installer App
Metering ports	Up to two Consumption CTs, one Production CT, and one battery CT (for IQ Battery 5P)
Power line communication (PLC)	90 kHz–110 kHz (Class B), to microinverters
Web API	Refer to https://developer-v4.enphase.com
Local API	Refer to the guide for local API
LED indicators	From top to bottom: Cloud connectivity, Wi-Fi access point mode, PV production state, PLC communications state
Configured through	Enphase Installer App and Enphase Installer Platform

Power production/export limiting through the IQ Gateway's digital IO	
Maximum relays read	4
Capabilities supported	Power production limiting (Production CT(s) required), power export limiting (Production CTs required and Consumption CTs – Load with solar configuration)
Minimum IQ Gateway version	8.2.127
Cable configurations	18 AWG, UL-Std. 62, 600 V, 105°C, and minimum 0.03 inches average thickness
Signal voltage range	2.5 V–5 V (digital high), 0 V–1.9 V (digital low)
Terminal blocks	Five terminals, up to 0.002 in
Configuration through	Enphase Installer App, Enphase Installer Platform (site settings)

Scope of delivery	
Package dimensions (H × W × D)	6.3 in (160.02 mm) × 10.8 in (274.32 mm) × 3.9 in (99.06 mm)
Package weight	2.2 lb (0.99 kg)
Aluminium DIN rail	4.9 in (124.46 mm)
Current transformers (CTs)	One CT-200-SOLID included

Compliance	
Compliance	CSIP (IEEE 2030.5) CAN/CSA C22.2 No. 61010-1 Title 47 CFR, Part 15, Class B, ICES 003 IEC/UL 61010-1:2010, Metering: ANSI C12.20 accuracy class 0.5 (PV production only)

Compatibility	
IQ System Controller	SC200D111C240US01, SC200G111C240US01, EP200G101-M240US01, EP200G101-M240US00
IQ Battery	IQBATTERY-5P-1P-NA, ENCHARGE-3T-1P-NA, ENCHARGE-10T-1P-NA
Microinverter	IQ6, IQ7, and IQ8 Series Microinverters

Manufacturer:
Enphase Energy Inc., 47281 Bayside Pkwy., Fremont, CA, 94538, United States of America, PH: +1 (707) 763-4784
Importer:
Enphase Energy NL B.V., Het Zuiderkruis 65, 5215MV, 's-Hertogenbosch, The Netherlands, PH: +31 73 3035859

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SUNMODO

GO BIG ON TURF

SunTurf™ Ground Mount System

SunModo offers the next generation Ground Mount System with SunTurf™. The streamlined design combines the strength of Helio Rails with steel pipes to create the perfect ground mount solution.

SurTurf™ is ideal for solar installers looking for a durable and cost-effective system that can accommodate a wide variety of soil conditions.

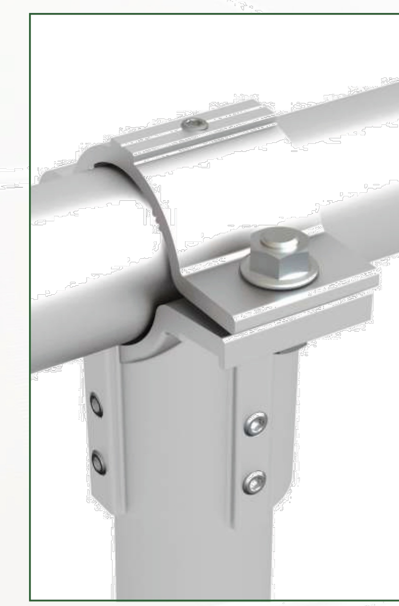
The SunTurf™ Ground Mount Advantage

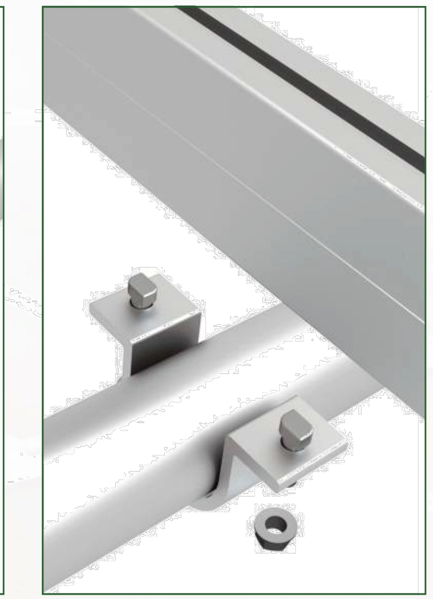
- ✓ Easily scalable from kilowatts to multimegawatts PV Arrays.
- ✓ Foundation design solution for every soil condition.
- ✓ Online configuration tool available to streamline design process.
- ✓ Components optimized for strength, durability and fast installation.
- ✓ UL 2703 Listed by Intertek.

Key Features of SunTurf™ Ground Mount System

SUNMODO
We've Got Your Rack!

SunTurf™ Ground Mount System easily integrate Helio Rails with 2-inch Schedule 40 steel pipes. No drilling is required to attach the aluminum rails to the horizontal pipe. Optional bracing can provide additional structural rigidity for sites with high snow or wind load conditions. Anchor any ground mount installation using one of our fountain types including helical piles, precast ballasts and concrete piers.





Technical Data

Application	Ground Mount
Material	High grade aluminum, galvanized steel and 304 stainless steel hardware
Module Orientation	Portrait and landscape
Tilt Angle	Range between 10 to 50 degrees
Foundation Types	Post in concrete, helical earth auger, ground screw anchor and ballast
Structural Integrity	Stamped engineering letters available
Certification	UL 2703 Listed by ETL
Warranty	20 Years

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Chris Chelovitz
61263BE
Ground Mount - SunTurf System

SUNMODO
LEADING by DESIGN

Project Details

Project Name	Chris Chelovitz	**Zip Code:**	44333
ASCE	7-16	**City, State**	Akron, OH
Total Watts	21 kW	**Date**	09/16/25
Total Modules	52		
Module Dimensions	Height: 1,924.1 mm, Width: 1,038.1 mm, Depth: 35.0 mm (75.75" x 40.87" x 1.38")		

Load Assumptions

Wind Speed	110 mph
Wind Exspoure	C
Ground Snow Load	20 psf

Structure & Foundation

Span Selection	Automatic: 84"
Front Edge Height	18"
Foundation Type	Ground Screw
Length of Screw	63"
Tilt	30°

Bill of Materials

Part	Spares	Total Qty
GRSCREW-63 Ground Screw, 63", with set screws		26
PIPE-20-60 Front Pipe, HSS, 2", 60"		13
PIPE-20-120 Rear Pipe, HSS, 2", 120"		13
PIPE-25-112 Pipe, HSS, 2.5", 112"		18
BRACE-TUBE-92 Brace, HSS Tube, 92"		17
SMR300-174-M SMR300 Rail, 174", Mill Finish		26
CLMP-U-25-SMR300 Pipe U-Clamp, 2.5", SMR300		52
PIPECAP-25 Pipe Cap, 2.5"		26
CLMP-PIPE-20 Pipe Clamp, 2"		30
CLMP-PIPE-25 Pipe Clamp, 2.5"		4
SPLC-PIPE-25 Pipe Splice, 2.5"		14
CLMP-MID-SMR-S Mid Clamp, SMR Pop-On, Silver		78
CLMP-END-SMR-S End Clamp, SMR Pop-On, Silver		52
GRND-SMR Grounding Lug, SMR		2
CAP-SMR300-G Rail End Cap, SMR300, Gray		52

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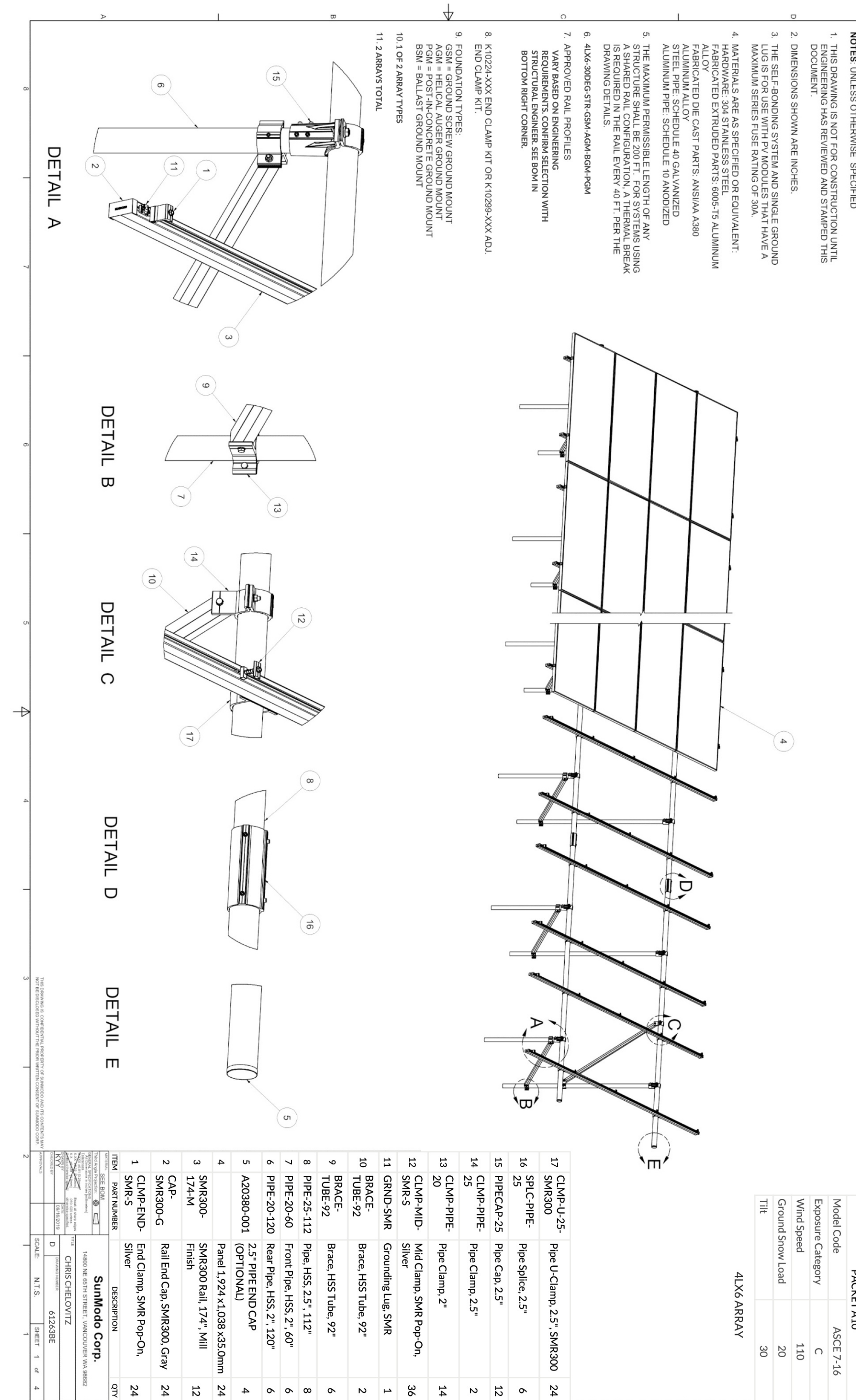
Array #1 Details

Orientation	Landscape	**Rail Type**	SMR300 Rail, 174", Mill Finish
Layout	4 rows by 6 columns	**N/S Span (in)**	80
Front Posts	6	**E/W Max Span (in)**	84
Back Posts	6	**Area**	455" (EW) x 163" (NS)

Array #2 Details

Orientation	Landscape	**Rail Type**	SMR300 Rail, 174", Mill Finish
Layout	4 rows by 7 columns	**N/S Span (in)**	80
Front Posts	7	**E/W Max Span (in)**	84
Back Posts	7	**Area**	530" (EW) x 163" (NS)

Sub Array #1 Layout



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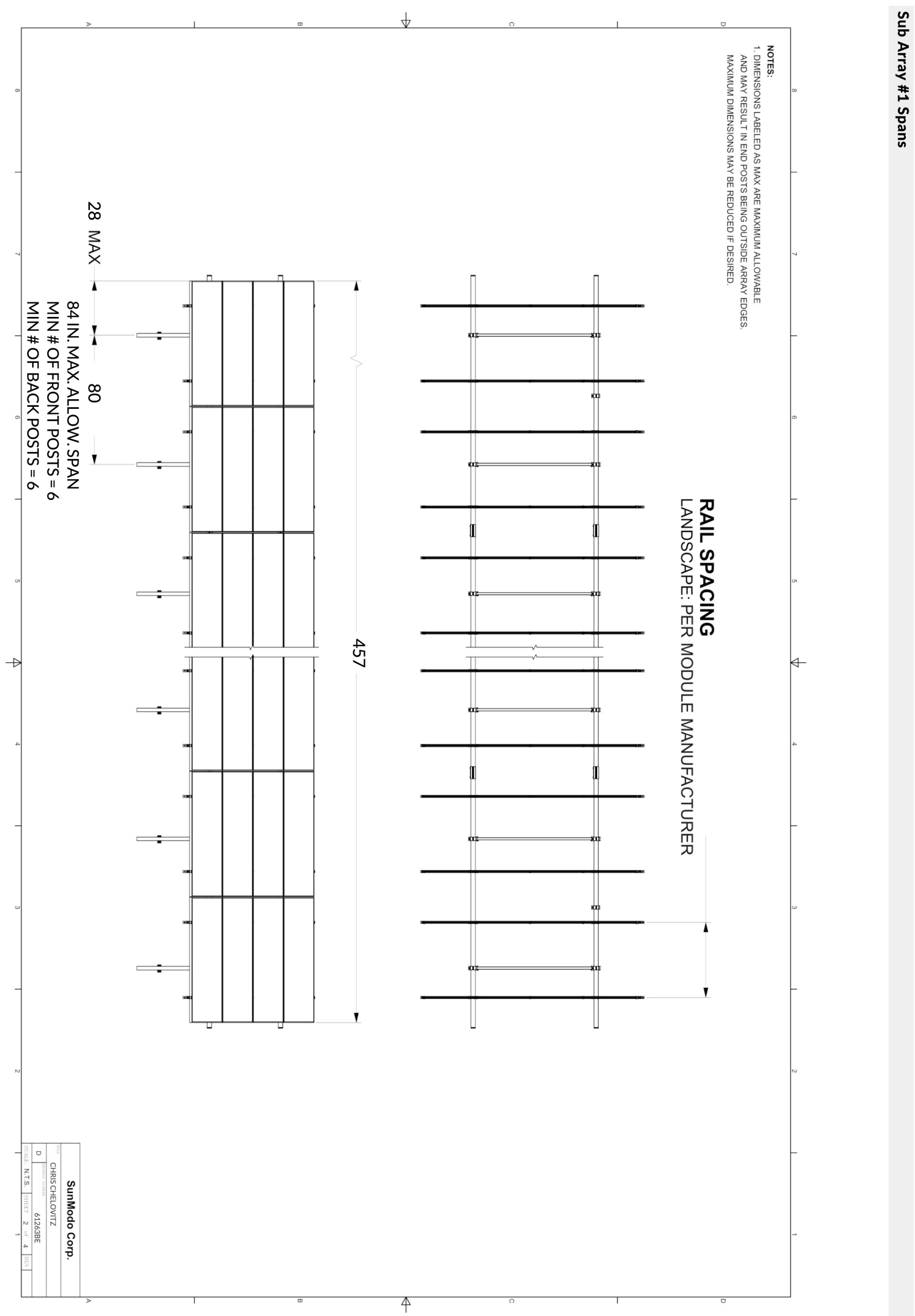

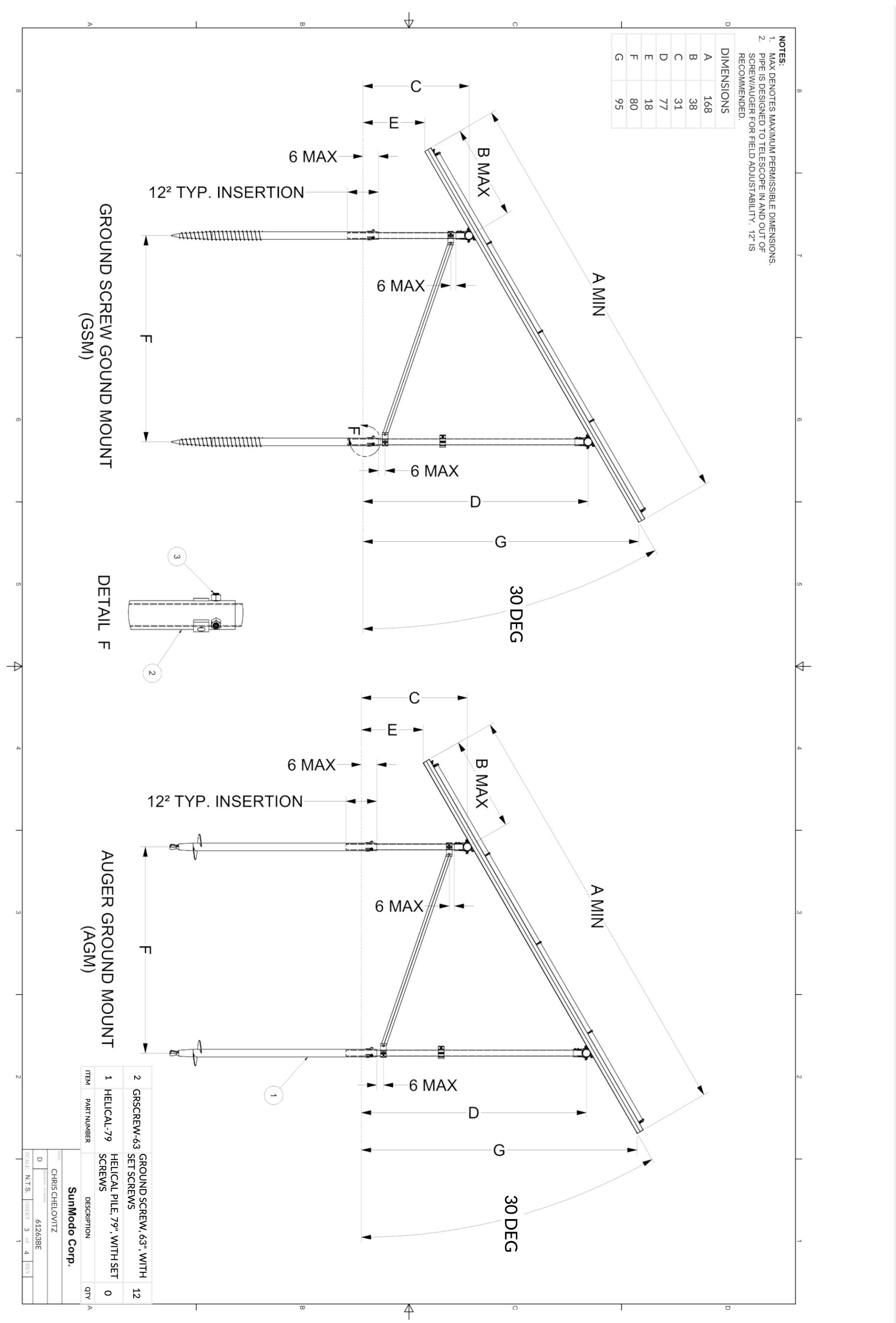

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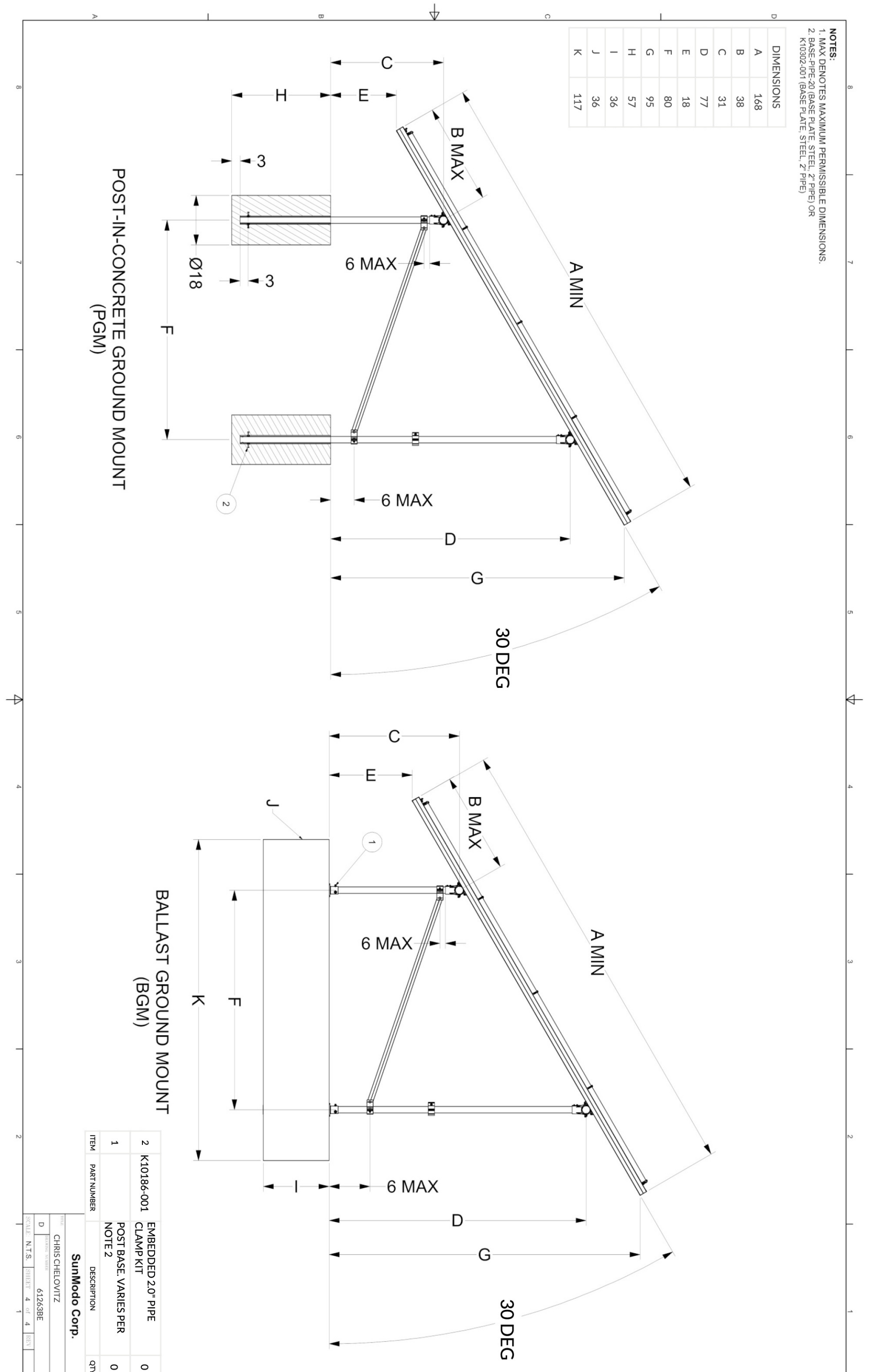
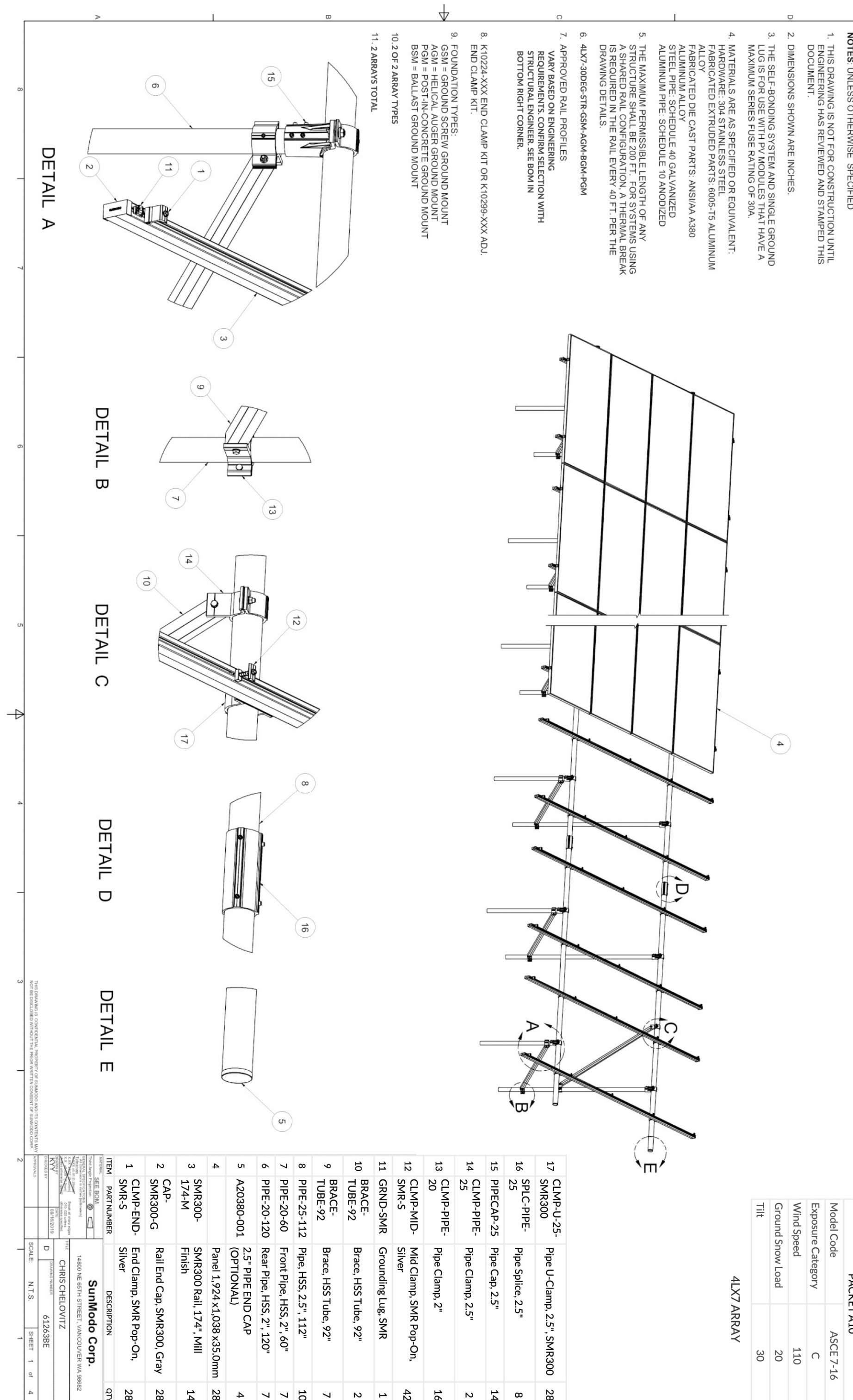
Sub Array #1 Foundation Part 2



Sub Array #2 Layout



CONTRACTOR: FDJ ENTERPRISES LLC DBA ENSMARRT
ADDRESS: 5555 COUNTY ROAD 203 SUITE C1
MILLERSBURG, OHIO 44654
PHONE: 8667630075
EMAIL: savings@ensmarrt.com
LICENSE #: 26969
ELECTRICAL LICENSE #: 26969

REVISIONS

DESCRIPTION	DATE	REV

SIGNATURE & SEAL

HOMEOWNER INFO

CHRIS CHELOVITZ
1019 N CLEVELAND MASSILLON RD,
AKRON, OH 44333, USA
APN: 0400460
PHONE: +13306872173
EMAIL: CHELOVITZ@YAHOO.COM

SHEET NAME

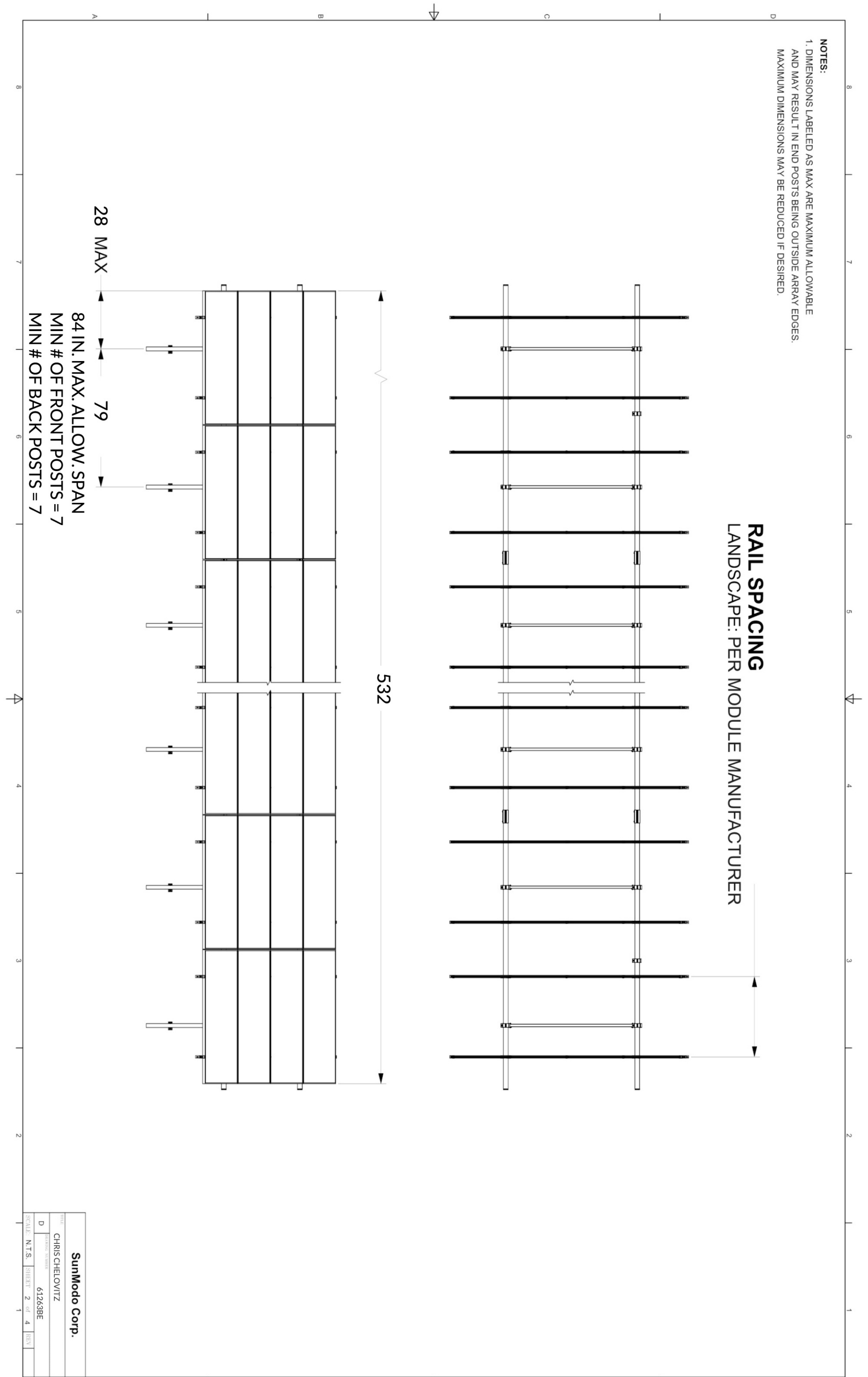
EQUIPMENT SPECIFICATION

SHEET SIZE

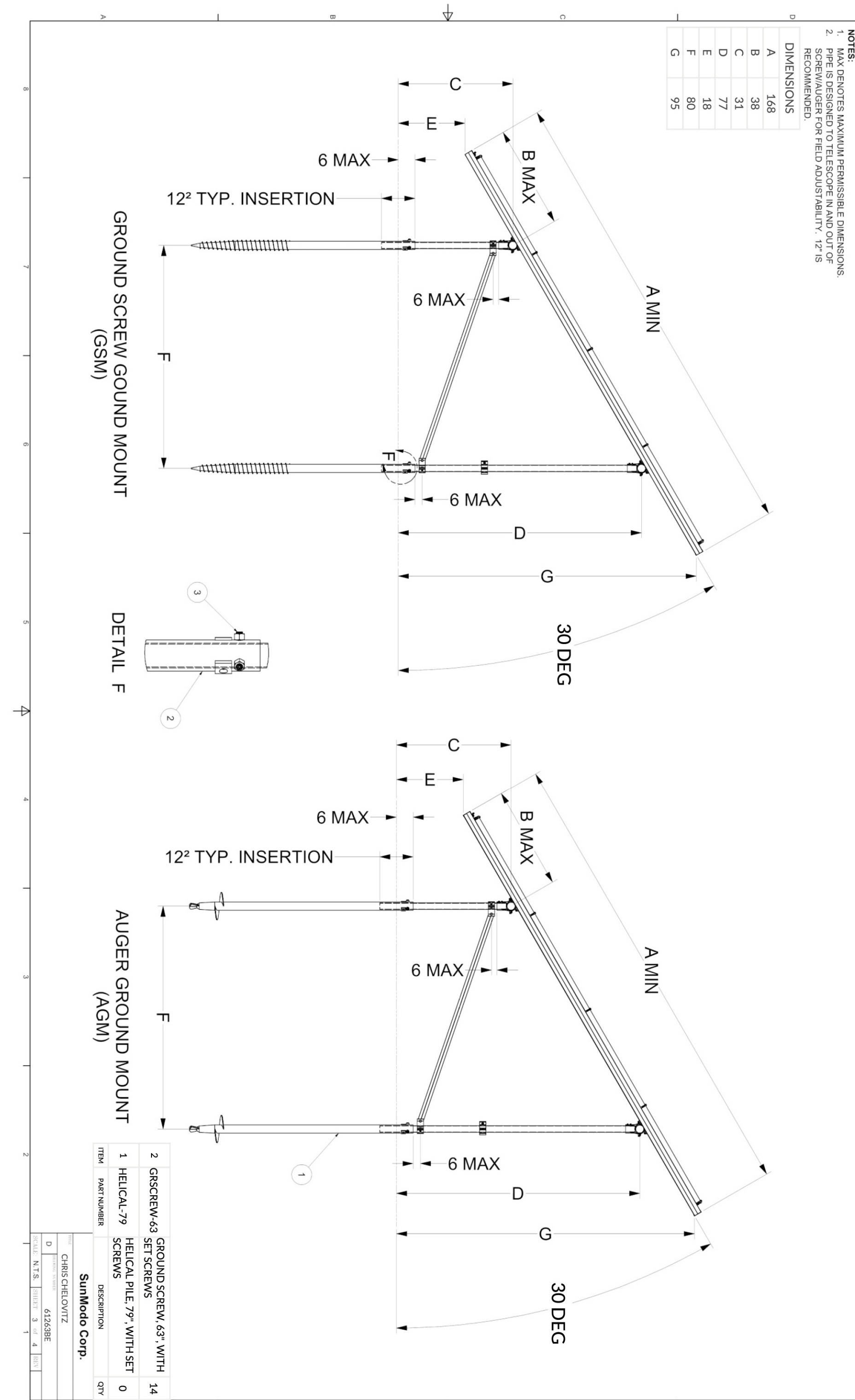
ANSI B
11" X 17"

SHEET NUMBER

Sub Array #2 Spans



Sub Array #2 Foundation Part 1



SOLAR

CONTRACTOR: FDJ ENTERPRISES LLC DBA ENSMARRT
ADDRESS: 5555 COUNTY ROAD 203 SUITE C1 MILLERSBURG, OHIO 44654
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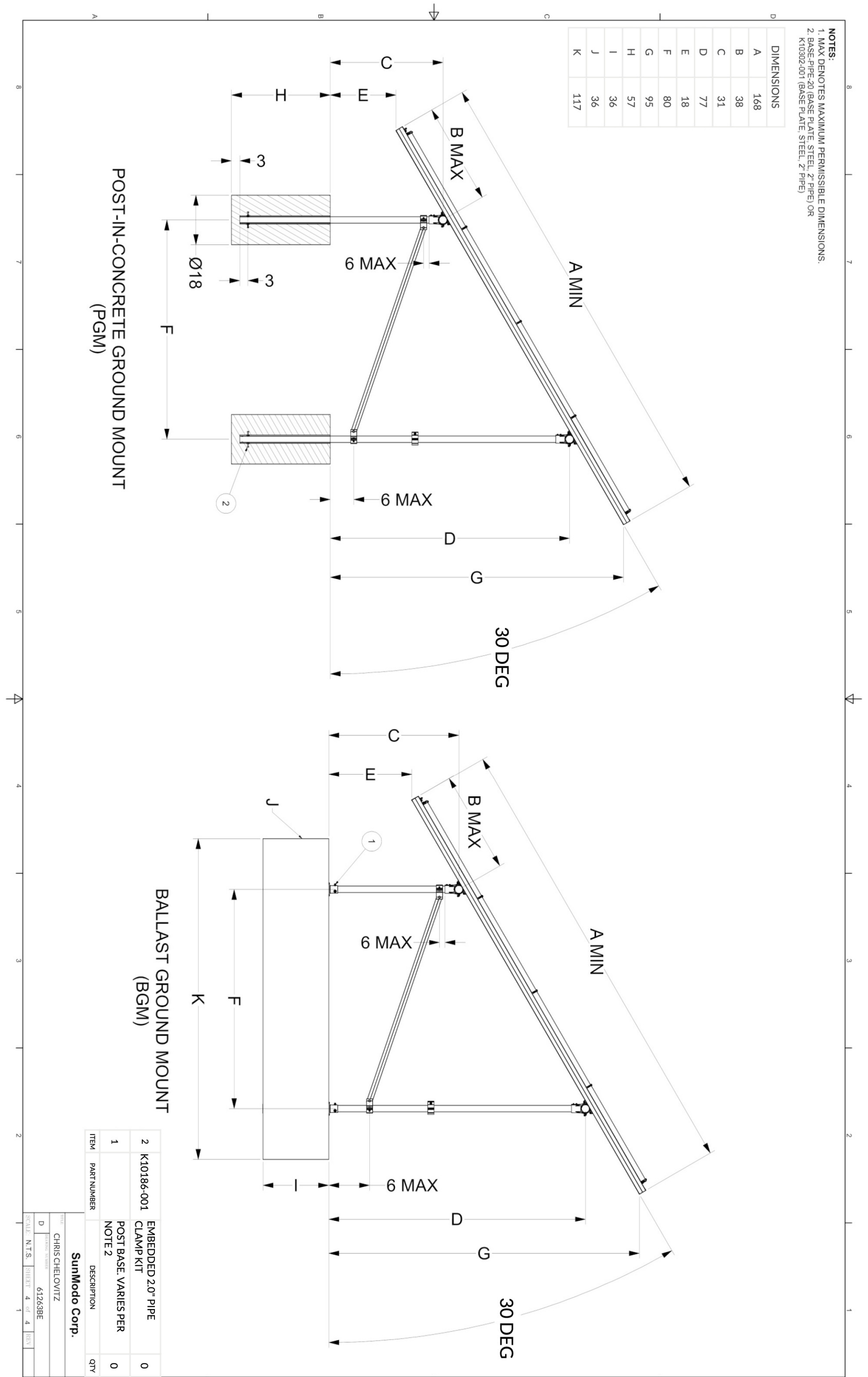
SHEET NAME
EQUIPMENT SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

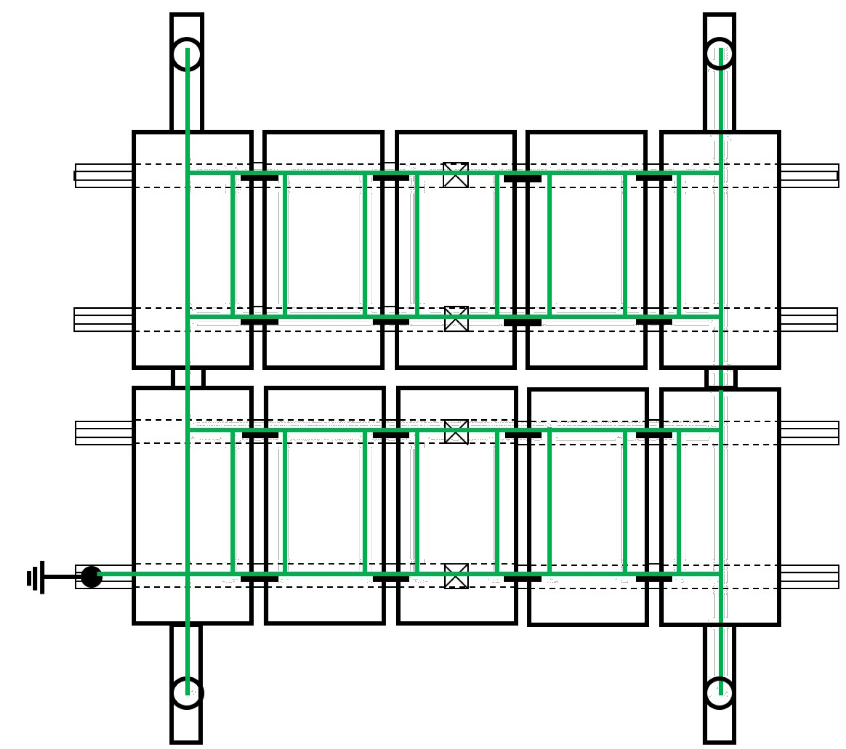
SHEET NUMBER

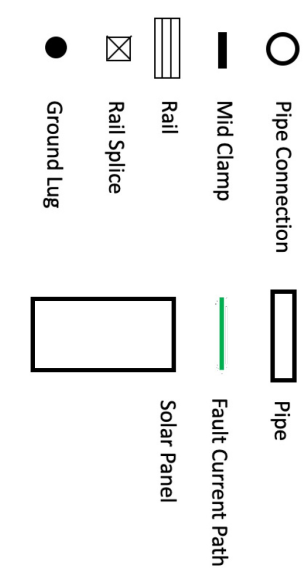
Sub Array #2 Foundation Part 2



DIMENSIONS	
A	168
B	38
C	31
D	77
E	18
F	80
G	95
H	57
I	36
J	36
K	117

Grounding





Note: All SunTurf metal structural components (Horizontal and Vertical Pipe, Pipe Splices, Post Caps, Pipe Clamps, Braces, Rail and Rail Splices) are electrically bonded together by design during the assembly of the racking.

Disclaimer:
The information from this configurator is not to be used for construction unless reviewed and approved by a design professional recognized by the project's authority having jurisdiction (AHJ)

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